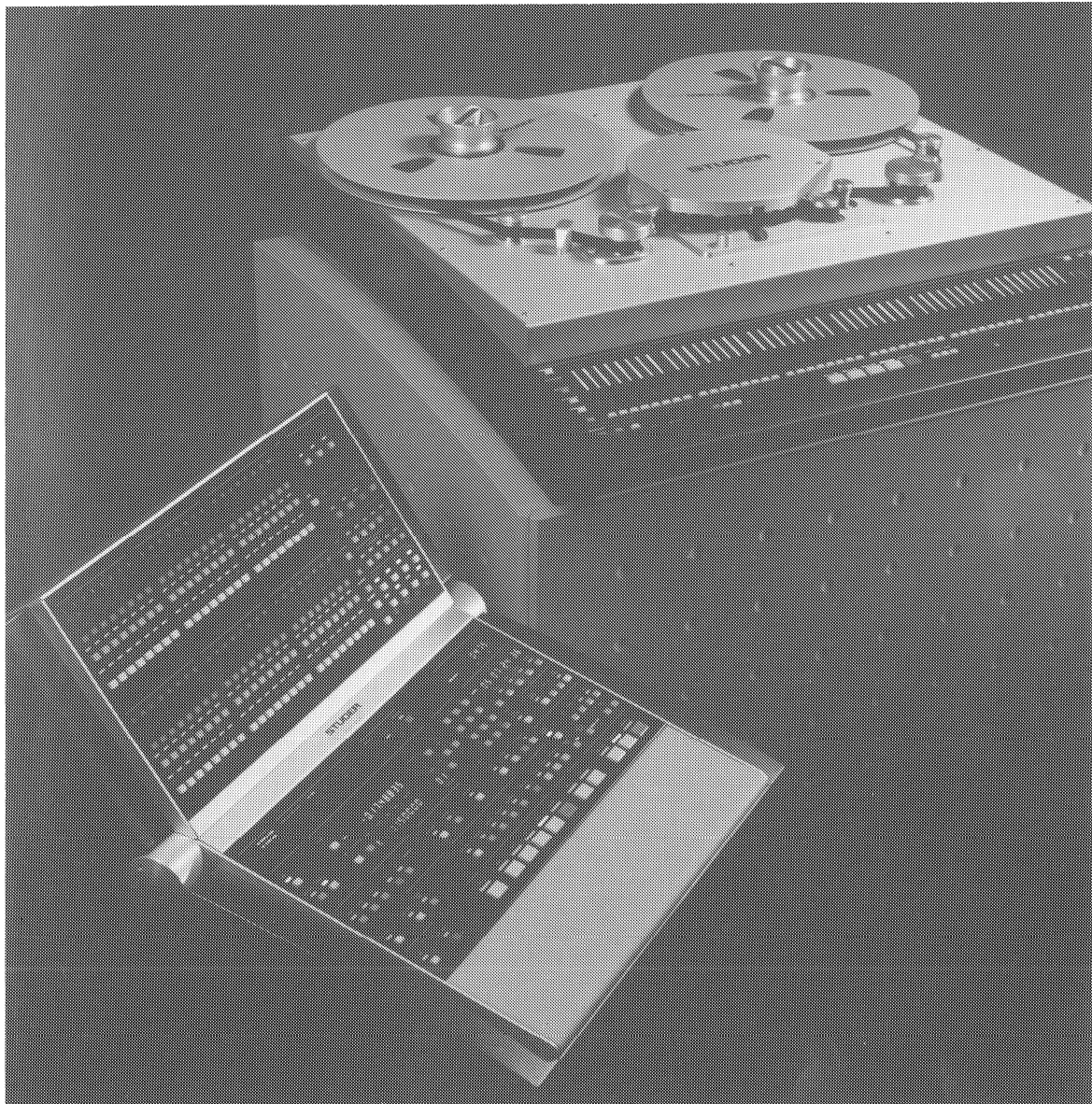


# Studer D827 MCH



**Diagrams / Spare Parts**



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**A Safety Information**

|  |  |
|--|--|
|  | <p>To reduce the risk of electric shock, do not remove covers. No user-serviceable parts inside. Refer servicing to qualified service personnel (i.e., persons having appropriate technical training and experience necessary to be aware of hazards to which they are exposed in performing a repair action, and of measures to minimize the danger of themselves).</p>   |
|  | <p>This symbol alerts the user to the presence of un-insulated <i>dangerous voltage</i> within the equipment that may be of sufficient magnitude to constitute a risk of electric shock to a person.</p>   |
|  | <p>This symbol alerts the user to <i>important instructions</i> for operating and maintenance in this documentation.</p>   |
|  | <p>Assemblies or sub-assemblies of this product can contain opto-electronic devices. As long as these devices comply with Class I of laser or LED products according to EN 60825-1:1994, they will not be expressly marked on the product. If a special design should be covered by a higher class of this standard, the device concerned will be marked directly on the assembly or sub-assembly in accordance with the above standard.</p> |

**A1 First Aid**

**In Case of Electric Shock:**

Separate the person as quickly as possible from the electric power source:

- By switching off the equipment,
- By unplugging or disconnecting the mains cable, or
- By pushing the person away from the power source, using dry, insulating material (such as wood or plastic).
- After having suffered an electric shock, *always* consult a doctor.



**Warning!**

***Do not touch the person or his clothing before the power is turned off, otherwise you stand the risk of suffering an electric shock as well!***

**If the Person is Unconscious:**

- Lay the person down
- Turn him to one side
- Check the pulse
- Reanimate the person if respiration is poor
- *Call for a doctor immediately.*



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## **B General Installation Instructions**

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Please consider besides these general instructions also any product-specific instructions in the “Installation” chapter of this manual.

### **B1 Unpacking**

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Check the equipment for any transport damage. If the unit is mechanically damaged, if liquids have been spilled or if objects have fallen into the unit, *it must not be connected to the AC power outlet, or it must be immediately disconnected by unplugging the power cable*. Repair must only be performed by trained personnel in accordance with the applicable regulations.

### **B2 Installation Site**

---

Install the unit in a place where the following conditions are met:

- The temperature and the relative humidity of the environment must be within the specified limits during operation of the unit. Relevant values are the ones at the air inlets of the unit.
- Condensation must be avoided. If the unit is installed in a location with large variation of ambient temperature (e.g. in an OB-van), appropriate precautions must be taken before and after operation (for details on this subject, refer to Appendix 1).
- Unobstructed air flow is essential for proper operation. Air vents of the unit are a functional part of the design and must not be blocked in any way during operation (e.g. by objects placed upon them, placement of the unit on a soft surface, or installation of the unit within a rack or piece of furniture).
- The unit must not be heated up by external sources of heat radiation (sunlight, spot lights).

### **B3 Earthing and Power Supply**

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Earthing of units with mains supply (class I equipment) is performed via the protective earth (PE) conductor integrated in the mains cable. Units with battery operation (< 60 V, class III equipment) must be earthed separately.

Earthing the unit is one of the measures for protection against electrical shock hazard (dangerous body currents). Hazardous voltage may not only be caused by a defective power supply insulation, but may also be introduced by the connected audio or control cables.

If the unit is installed with one or several external connections, its earthing must be provided during operation as well as while the unit is not operated. If the earthing connection can be interrupted, for example, by unplugging the mains plug of an external power supply unit, an additional, permanent earthing connection must be installed using the provided earth terminal.

Avoid ground loops (hum loops) by keeping the loop surface as small as possible (by consequently guiding the earth conductors in a narrow, parallel way), and reduce the noise current flowing through the loop by inserting an additional impedance (common-mode choke).



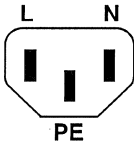
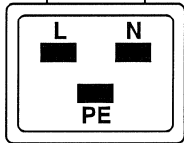
**Class I Equipment (Mains Operation)**

Should the equipment be delivered without a matching mains cable, the latter has to be prepared by a trained person using the attached female plug (IEC320/C13 or IEC320/C19) with respect to the applicable regulations in your country.

Before connecting the equipment to the AC power outlet, check that the local line voltage matches the equipment rating (voltage, frequency) within the admissible tolerance. The equipment fuses must be rated in accordance with the specifications on the equipment.

Equipment supplied with a 3-pole appliance inlet (protection conforming to class I equipment) *must* be connected to a 3-pole AC power outlet so that the equipment cabinet is connected to the protective earth.

For information on mains cable strain relief please refer to Appendix 2.

| Female Plugs (IEC320), Front-Side View:  |  |                                  |
|--|--|----------------------------------|
|  <p>IEC 320 / C13</p> |  <p>IEC 320 / C19</p> |                                  |
| European Standard<br>(CENELEC)   |  | North American Standard<br>(NAS) |
| Brown  | L (Live)   | Black                            |
| Blue   | N (Neutral)  | White                            |
| Green/Yellow   | PE (Protective Earth)  | Green (or Green/Yellow)          |

**Class III Equipment (Battery Operation up to 60 V<sub>DC</sub>)**

Equipment of this protection class must be earthed using the provided earth terminal, if one or more external signals are connected to the unit (see explanation at the beginning of this paragraph).

**B4 Electromagnetic Compatibility (EMC)**

The unit conforms to the protection requirements relevant to electromagnetic phenomena that are listed in guidelines 89/336/EC and FCC, part 15.

- The electromagnetic interference generated by the unit is limited in such a way that other equipment and systems can be operated normally.
- The unit is adequately protected against electromagnetic interference so that it can operate properly.

The unit has been tested and conforms to the EMC standards of the specified electromagnetic environment, as listed in the following declaration. The limits of these standards ensure protection of the environment and corresponding noise immunity of the equipment with appropriate probability. However, a professional installation and integration within the system are imperative prerequisites for operation without EMC problems.

For this purpose, the following measures must be followed:

- Install the equipment in accordance with the operating instructions. Use the supplied accessories.
- In the system and in the vicinity where the equipment is installed, use only components (systems, equipment) that also fulfill the EMC standards for the given environment.
- Use a system grounding concept that satisfies the safety requirements (class I equipment must be connected with a protective ground conduc-



tor) and that also takes into consideration the EMC requirements. When deciding between radial, surface, or combined grounding, the advantages and disadvantages should be carefully evaluated in each case.

- Use shielded cables where shielding is specified. The connection of the shield to the corresponding connector terminal or housing should have a large surface and be corrosion-proof. Please note that a cable shield connected only single-ended can act as a transmitting or receiving antenna within the corresponding frequency range.
- Avoid ground loops or reduce their adverse effects by keeping the loop surface as small as possible, and reduce the noise current flowing through the loop by inserting an additional impedance (e.g. common-mode choke).
- Reduce electrostatic discharge (ESD) of persons by installing an appropriate floor covering (e.g. a carpet with permanent electrostatic filaments) and by keeping the relative humidity above 30%. Further measures (e.g. conducting floor) are usually unnecessary and only effective if used together with corresponding personal equipment.
- When using equipment with touch-sensitive operator controls, please take care that the surrounding building structure allows for sufficient capacitive coupling of the operator. This coupling can be improved by an additional, conducting surface in the operator's area, connected to the equipment housing (e.g. metal foil underneath the floor covering, carpet with conductive backing).

## C Maintenance

All air vents and openings for operating elements (faders, rotary knobs) must be checked on a regular basis, and cleaned in case of dust accumulation. For cleaning, a soft paint-brush or a vacuum cleaner is recommended. Cleaning the surfaces of the unit is performed with a soft, dry cloth or a soft brush.

Persistent contamination can be treated with a cloth that is slightly humidified with a mild cleaning solution (soap-suds).

For cleaning display windows, commercially available computer/TV screen cleaners are suited. Use only a slightly damp (never wet) cloth.

*Never use any solvents for cleaning the exterior of the unit! Liquids must never be sprayed or poured on directly!*

For equipment-specific maintenance information please refer to the corresponding chapter in the Operating and Service Instructions manuals.

## D Electrostatic Discharge during Maintenance and Repair

### Caution:



Observe the precautions for handling devices sensitive to electrostatic discharge!

Many semiconductor components are sensitive to electrostatic discharge (ESD). The life-span of assemblies containing such components can be drastically reduced by improper handling during maintenance and repair work. Please observe the following rules when handling ESD sensitive components:

- ESD sensitive components should only be stored and transported in the packing material specifically provided for this purpose.
- *When performing a repair by replacing complete assemblies, the removed assembly must be sent back to the supplier in the same packing*

*material in which the replacement assembly was shipped. If this should not be the case, any claim for a possible refund will be null and void.*

- Unpacked ESD sensitive components should only be handled in ESD protected areas (EPA, e.g. area for field service, repair or service bench) and only be touched by persons who wear a wristlet that is connected to the ground potential of the repair or service bench by a series resistor. The equipment to be repaired or serviced as well as all tools and electrically semi-conducting work, storage, and floor mats should also be connected to this ground potential.
- The terminals of ESD sensitive components must not come in uncontrolled contact with electrostatically chargeable (voltage puncture) or metallic surfaces (discharge shock hazard).
- To prevent undefined transient stress of the components and possible damage due to inadmissible voltages or compensation currents, electrical connections should only be established or separated when the equipment is switched off and after any capacitor charges have decayed.

## **E Repair**

---

Removal of housing parts, shields, etc. exposes energized parts. For this reason the following precautions must be observed:

- Maintenance may only be performed by trained personnel in accordance with the applicable regulations.
- The equipment must be switched off and disconnected from the AC power outlet before any housing parts are removed.
- Even if the equipment is disconnected from the power outlet, parts with hazardous charges (e.g. capacitors, picture tubes) must not be touched until they have been properly discharged. Do not touch hot components (power semiconductors, heat sinks, etc.) before they have cooled off.
- If maintenance is performed on a unit that is opened and switched on, no un-insulated circuit components and metallic semiconductor housings must be touched, neither with your bare hands nor with un-insulated tools.

Certain components pose additional hazards:

- *Explosion hazard* from lithium batteries, electrolytic capacitors and power semiconductors (watch the component's polarity. Do not short battery terminals. Replace batteries only by the same type).
- *Implosion hazard* from evacuated display units.
- *Radiation hazard* from laser units (non-ionizing), picture tubes (ionizing).
- *Caustic effect* of display units (LCD) and components containing liquid electrolyte.

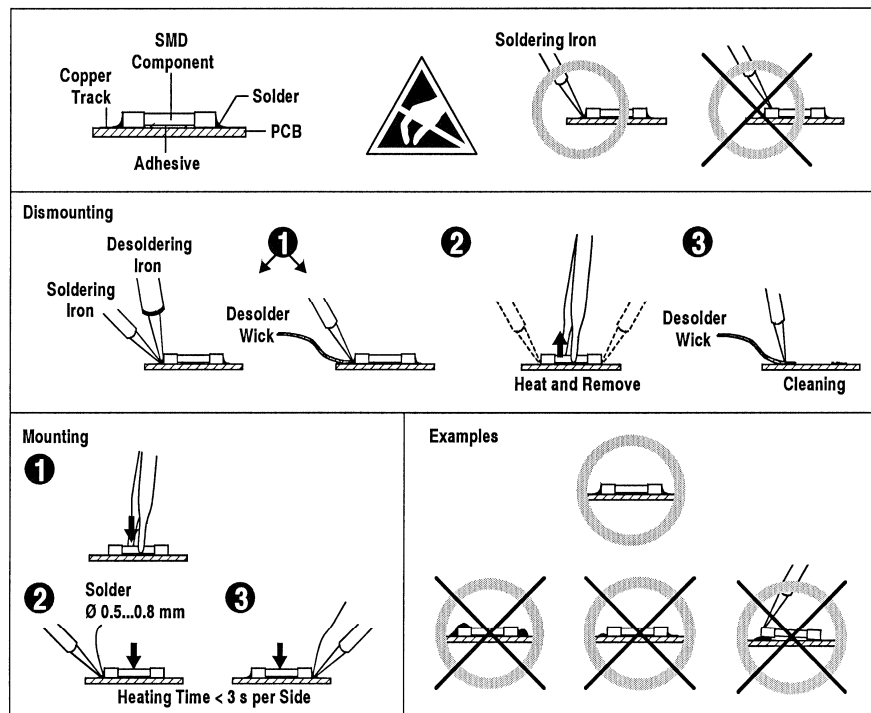
*Such components should only be handled by trained personnel who are properly protected (e.g. safety goggles, gloves).*



**E1 SMD Components**

Studer has no commercially available SMD components in stock for service purposes. For repair, the corresponding devices have to be purchased locally. The specifications of special components can be found in the service manual.

SMD components should only be replaced by skilled specialists using appropriate tools. No warranty claims will be accepted for circuit boards that have been damaged. Proper and improper SMD soldering joints are illustrated below.



**F Disposal**

**Disposal of Packing Materials**

The packing materials have been selected with environmental and disposal issues in mind. All packing material can be recycled. Recycling packing saves raw materials and reduces the volume of waste.

If you need to dispose of the transport packing materials, please try to use recyclable means.

**Disposal of Used Equipment**

Used equipment contains valuable raw materials as well as materials that must be disposed of professionally. Please return your used equipment via an authorized specialist dealer or via the public waste disposal system, ensuring any material that can be recycled is.

Please take care that your used equipment cannot be abused. To avoid abuse, delete sensitive data from any data storage media. After having disconnected your used equipment from the mains supply, make sure that the mains connector and the mains cable are made useless.

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**G      Declarations of Conformity**

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**G1      Class A Equipment - FCC Notice**

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This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide a reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

*Caution:* Any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment. Also refer to relevant information in this manual.

---

**G2      CE Declaration of Conformity**

---

We,  
**Studer Professional Audio GmbH,**  
**CH-8105 Regensdorf,**  
declare under our sole responsibility that the product  
**Studer D827, Digital 24/48 Track Tape Recorder**  
**(starting with serial no. 1072)**  
to which this declaration relates, according to following regulations of EU directives and amendments

- Low Voltage (LVD):  
73/23/EEC + 93/68/EEC
- Electromagnetic Compatibility (EMC):  
89/336/EEC + 92/31/EEC + 93/68/EEC

is in conformity with the following standards or normative documents:

- Safety:  
EN 60065:1993, IEC 65:1985 (Class I equipment)
- EMC:  
EN 50081-1:1992, EN 50082-1:1992

Regensdorf, June 16, 1995



B. Hochstrasser, President



P. Fiala, Manager QA

## Appendix 1: Air Temperature and Humidity

### General

Normal operation of the unit or system is warranted under the following ambient conditions defined by *EN 60721-3-3, set IE32, value 3K3*.

This standard consists of an extensive catalogue of parameters, the most important of which are: ambient temperature +5...+40 °C, relative humidity 5...85% (i.e., no formation of condensation or ice); absolute humidity 1...25 g/m<sup>3</sup>; rate of temperature change < 0.5 °C/min. These parameters are dealt with in the following paragraphs.

Under these conditions the unit or system starts and works without any problem. Beyond these specifications, possible problems are described in the following paragraphs.

### Ambient Temperature

Units and systems by Studer are generally designed for an ambient temperature range (i.e. temperature of the incoming air) of +5...+40 °C. When rack mounting the units, the intended air flow and herewith adequate cooling must be provided. The following facts must be considered:

- The admissible ambient temperature range for operation of the semiconductor components is 0 °C to +70 °C (commercial temperature range for operation).
- The air flow through the installation must provide that the outgoing air is always cooler than 70 °C.
- Average heat increase of the cooling air shall be about 20 K, allowing for an additional maximum 10 K increase at the hot components.
- In order to dissipate 1 kW with this admissible average heat increase, an air flow of 2.65 m<sup>3</sup>/min is required.

**Example:** A rack dissipating  $P = 800\text{ W}$  requires an air flow of  $0.8 * 2.65\text{ m}^3/\text{min}$  which corresponds to  $2.12\text{ m}^3/\text{min}$ .

- If the cooling function of the installation must be monitored (e.g. for fan failure or illumination with spot lamps), the outgoing air temperature must be measured directly above the modules at several places within the rack. The trigger temperature of the sensors should be 65 to 70 °C.

### Frost and Dew

The unsealed system parts (connector areas and semiconductor pins) allow for a minute formation of ice or frost. However, formation of dew visible with the naked eye will already lead to malfunctions. In practice, reliable operation can be expected in a temperature range above -15 °C, if the following general rule is considered for putting the cold system into operation:

If the air within the system is cooled down, the relative humidity rises. If it reaches 100%, condensation will arise, usually in the boundary layer between the air and a cooler surface, together with formation of ice or dew at sensitive areas of the system (contacts, IC pins, etc.). Once internal condensation occurs, trouble-free operation cannot be guaranteed, independent of temperature.

Before putting into operation, the system must be checked for internal formation of condensation or ice. Only with a minute formation of ice, direct

evaporation (sublimation) may be expected; otherwise the system must be heated and dried while switched off.

A system without visible internal formation of ice or condensation should be heated up with its own heat dissipation, as homogeneously (and subsequently as slow) as possible; the ambient temperature should then always be lower than the one of the outgoing air.

If it is absolutely necessary to operate the cold system immediately within warm ambient air, this air must be dehydrated. In such a case, the absolute humidity must be so low that the relative humidity, related to the coldest system surface, always remains below 100%.

Ensure that the enclosed air is as dry as possible when powering off (i.e. before switching off in winter, aerate the room with cold, dry air, and remove humid objects as clothes from the room).

These relationships are visible from the following climatogram. For a controlled procedure, thermometer and hygrometer as well as a thermometer within the system will be required.

**Example 1:** An OB-van having an internal temperature of 20 °C and relative humidity of 40% is switched off in the evening. If temperature falls below +5 °C, dew or ice will be forming.

**Example 2:** An OB-van is heated up in the morning with air of 20 °C and a relative humidity of 40%. On all parts being cooler than +5 °C, dew or ice will be forming.

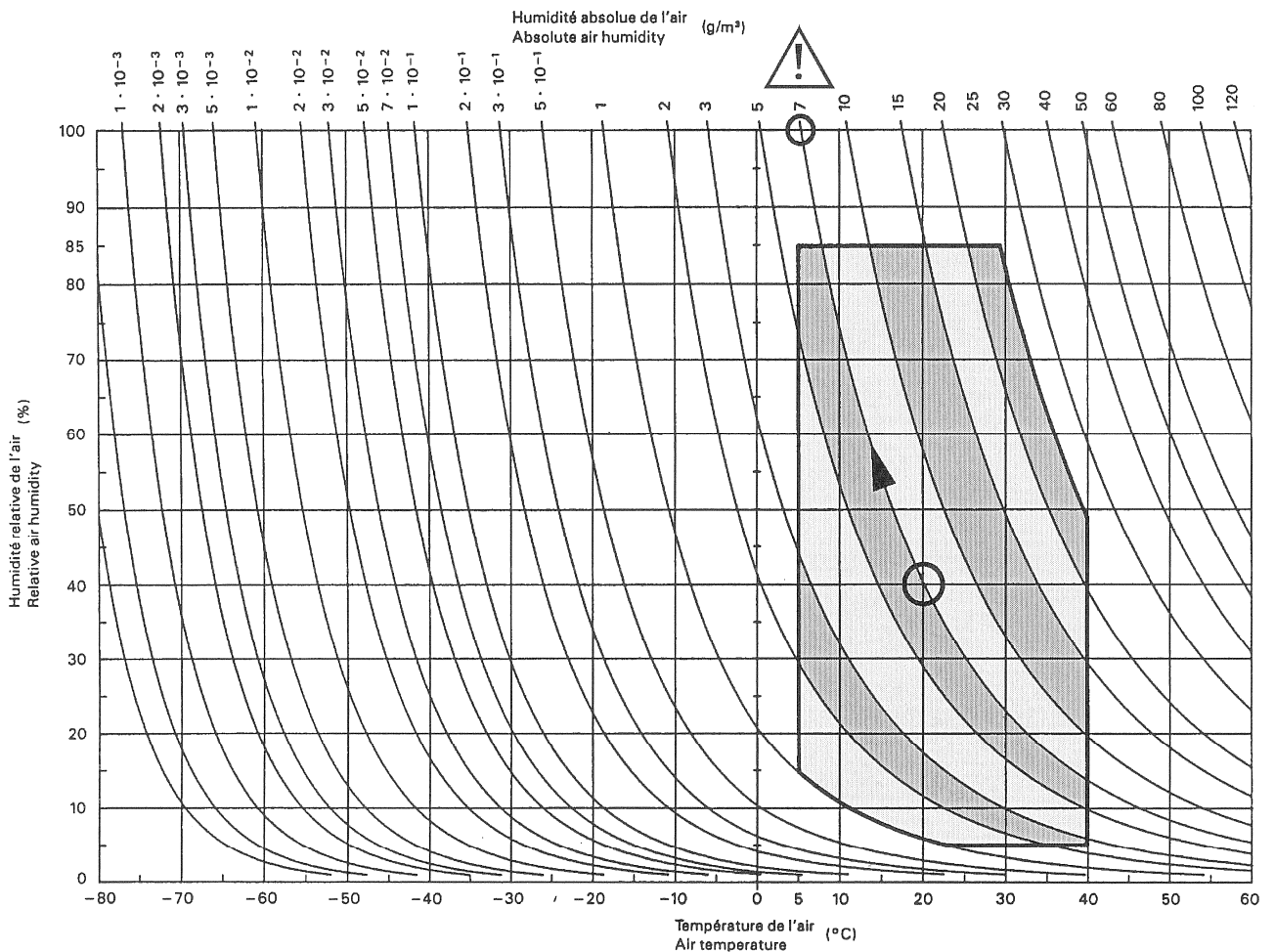
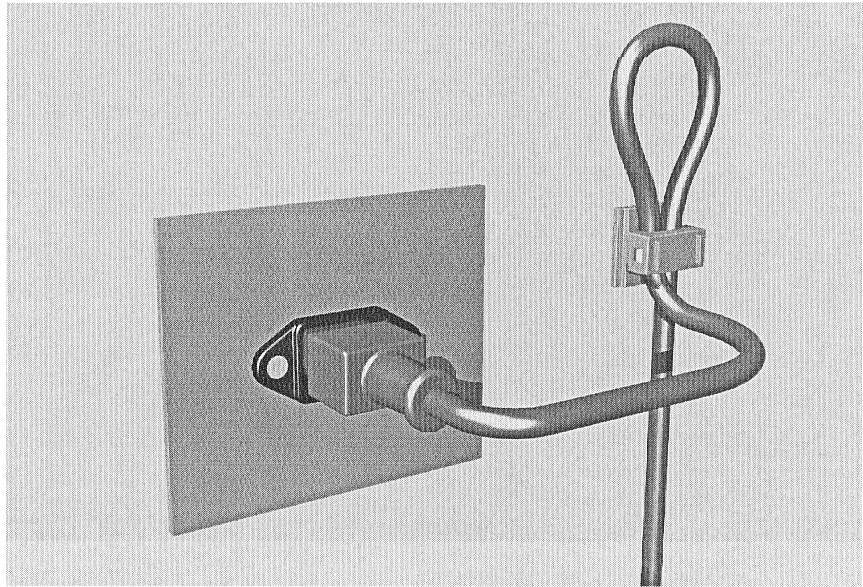


Figure B.3 – Climatogramme pour catégorie 3K3  
Climatogram for class 3K3



## Appendix 2: Mains Connector Strain Relief

For anchoring connectors without a mechanical lock (e.g. IEC mains connectors), we recommend the following arrangement:



**Procedure:** The cable clamp shipped with your unit is auto-adhesive. For mounting please follow the rules below:

- The surface to be adhered to must be clean, dry, and free from grease, oil, or other contaminants. Recommended application temperature range is +20...+40 °C.
- Remove the plastic protective backing from the rear side of the clamp and apply it firmly to the surface at the desired position. Allow as much time as possible for curing. The bond continues to develop for as long as 24 hours.
- For improved stability, the clamp should be fixed with a screw. For this purpose, a self-tapping screw and an M4 bolt and nut are included.
- Place the cable into the clamp as shown in the illustration above and firmly press down the internal top cover until the cable is fixed.

## Appendix 3: Software License

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## **Warranty, Disclaimer, and Liability**

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For all issues not covered herewithin, refer to the "General Terms and Conditions of Sales and Delivery" being part of the sales contract.

|          |  |
|----------|--|
| <b>0</b> | <b>Contents of Diagram Sections in Numerical Order</b><br><b>Group summary</b><br><b>Survey of Groups and Connectors</b> |
| <b>1</b> | <b>Audio and System Control</b>  |
| <b>2</b> | <b>Diagrams Headelectronics</b>  |
| <b>3</b> | <b>Diagrams Power Supply and Tape Deck Control</b>   |
| <b>4</b> | <b>Diagrams Remotes and Peripherals</b>  |
| <b>5</b> | <b>Spare Parts</b>   |



## ABBREVIATIONS

### COMPONENTS

|     |                       |     |                        |
|-----|-----------------------|-----|------------------------|
| B   | bulb                  | LC  | LC Display             |
| BA  | battery, accumulator  | LS  | loudspeaker            |
| BR  | optocoupler B->LDR    | M   | motor                  |
| C   | capacitor             | ME  | meter                  |
| D   | diode, DIAC           | MIC | microphone             |
| DL  | LED light-emit. diode | MP  | mechanical part        |
| DLQ | optocoupler LED->QP   | P   | plug (male)            |
| DLR | optocoupler LED->DLR  | PU  | pick up                |
| DLZ | LED array, 7s.display | Q   | transistor             |
| DP  | photodiode            | QP  | phototransistor        |
| DZ  | rectifier             | R   | resistor               |
| EF  | headphones            | RP  | photosensitive resist. |
| F   | fuse                  | RT  | temp. sensit. resist.  |
| FL  | filter                | RZ  | resistor array         |
| H   | head (sound-/erase-)  | S   | switch                 |
| HC  | hybrid circuit        | T   | transformer            |
| HE  | hall element          | TL  | delay line             |
| IC  | integrated circuit    | TP  | test point             |
| J   | jack (female)         | W   | wire, stranded wire    |
| JS  | jumper                | X   | socket, holder         |
| K   | relay, contactor      | XB  | lamp socket            |
| L   | coil, inductance      | XF  | fuse holder            |
| LC  | LC Display            | XIC | IC socket              |
| LS  | loudspeaker           | Y   | quartz, piezo element  |
| L   | coil, inductance      | Z   | network, array         |

### SPECIFICATIONS OF ELEMENTS

|      |              |      |                      |
|------|--------------|------|----------------------|
| CC   | Carbon film  | PCF  | Carbon film          |
| Cer  | Ceramic      | Petp | Polyester            |
| Cerm | Cermet       | Pme  | Metallised polyester |
| EI   | Electrolytic | PP   | Polypropylen         |
| Mf   | Metal film   | Si   | Silicon              |
| MP   | Metal paper  | Tri  | Trimmer              |

### MANUFACTURER OF COMPONENTS

|     |                      |     |                   |
|-----|----------------------|-----|-------------------|
| ADI | Analog Devices Inc.  | RCA | Radio Corporation |
| AMP | Ampex                | --- | RIVA              |
| Com | Componex             | SDS |                   |
| Dam | Dam Electronic       | Sie | Siemens           |
| Del | Delevan              | SIG | Signetics         |
| Ex  | Exar                 | --- | Stetner           |
| GI  | General Instruments  | --- | Stocko            |
| Ha  | Harris               | St  | Studer            |
| Hi  | Hirschmann           | Sx  | Siliconix         |
| ITT | Intermetall, Valvo   | Ti  | Texas Instruments |
| Mot | Motorola             | TDK | TDK               |
| NEC | Nippon Electr. Corp. | --- | Toko              |
| NS  | Nat. Semiconductors  | To  | Toshiba           |
| Ph  | Philips              | Vi  | Videlec           |
| Ra  | Raytheon             |     |                   |

### POWERS OF TEN

|                                 |                                 |                                |                                 |                                  |                                |                               |                               |                               |
|---------------------------------|---------------------------------|--------------------------------|---------------------------------|----------------------------------|--------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Milli-<br>m<br>10 <sup>-3</sup> | Micro-<br>μ<br>10 <sup>-6</sup> | Nano-<br>n<br>10 <sup>-9</sup> | Pico-<br>p<br>10 <sup>-12</sup> | Femto-<br>f<br>10 <sup>-15</sup> | Tera-<br>T<br>10 <sup>12</sup> | Giga-<br>G<br>10 <sup>9</sup> | Mega-<br>M<br>10 <sup>6</sup> | Kilo-<br>k<br>10 <sup>3</sup> |
|---------------------------------|---------------------------------|--------------------------------|---------------------------------|----------------------------------|--------------------------------|-------------------------------|-------------------------------|-------------------------------|

## CODE LETTERS AND COLORS

### RESISTORS

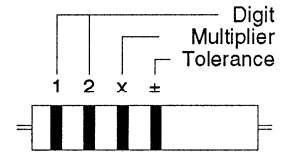
| COLOR  | DIG | x    | ±     | TC                       |
|--------|-----|------|-------|--------------------------|
| gold   | -   | 0,01 | 5%    | -                        |
| silver | -   | 0,1  | 10%   | -                        |
| black  | 0   | 1    | -     | -                        |
| brown  | 1   | 10   | 1%    | 100·10 <sup>-6</sup> /K  |
| red    | 2   | 100  | 2%    | 50·10 <sup>-6</sup> /K # |
| orange | 3   | 1k   | -     | 15·10 <sup>-6</sup> /K   |
| yellow | 4   | 10k  | -     | 25·10 <sup>-6</sup> /K   |
| green  | 5   | 100k | 0,5%  | -                        |
| blue   | 6   | 1M   | 0,25% | -                        |
| violet | 7   | 10M  | 0,1%  | -                        |
| grey   | 8   | -    | -     | -                        |
| white  | 9   | -    | -     | -                        |

# either no mark for TC, or red.  
1 black ring only: 0 Ω (= bridge)

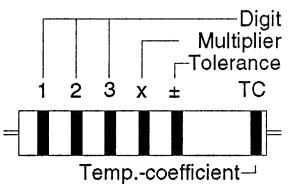
### CAPACITORS

The tolerance category is sometimes specified by a letter after the rated capacitance.

### ■ SERIES E6/E12/E24



### ■ SERIES E48

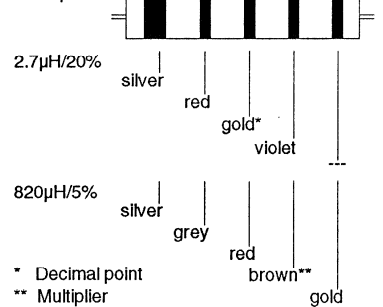


### MOLDED RF COILS

A wide silver-colored ring and 4 thin, differently colored rings identify molded RF coils. The wide silver ring indicates the start of the counting direction. The second, third, and fourth ring indicate the inductance in micro Henry (μH), where two of the three rings represent the numeric value, the third one either a multiplier or the decimal point. In the latter case it has a golden color. The fifth ring identifies the tolerance in percent (±).

| COLOR  | DIG | x               | ±    |
|--------|-----|-----------------|------|
| black  | 0   | 1               | -    |
| brown  | 1   | 10              | 1%   |
| red    | 2   | 100             | 2%   |
| orange | 3   | 10 <sup>3</sup> | -    |
| yellow | 4   | 10 <sup>4</sup> | -    |
| green  | 5   | 10 <sup>5</sup> | 0.5% |
| blue   | 6   | 10 <sup>6</sup> | -    |
| violet | 7   | 10 <sup>7</sup> | -    |
| grey   | 8   | 10 <sup>8</sup> | -    |
| white  | 9   | 10 <sup>9</sup> | -    |
| gold   | -   | -               | 5%   |
| silver | -   | -               | 10%  |
| any    | -   | -               | 20%  |

Examples:



### NOTE:

Some of the order numbers contained in the following lists are used for production purposes only. The reference numbers may deviate for service purposes.

Electrical components such as resistors, capacitors, transistors, IC's etc. having no special unit-specific number and not being identified respectively should be purchased locally.

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ESE = Electrostatically sensitive assembly

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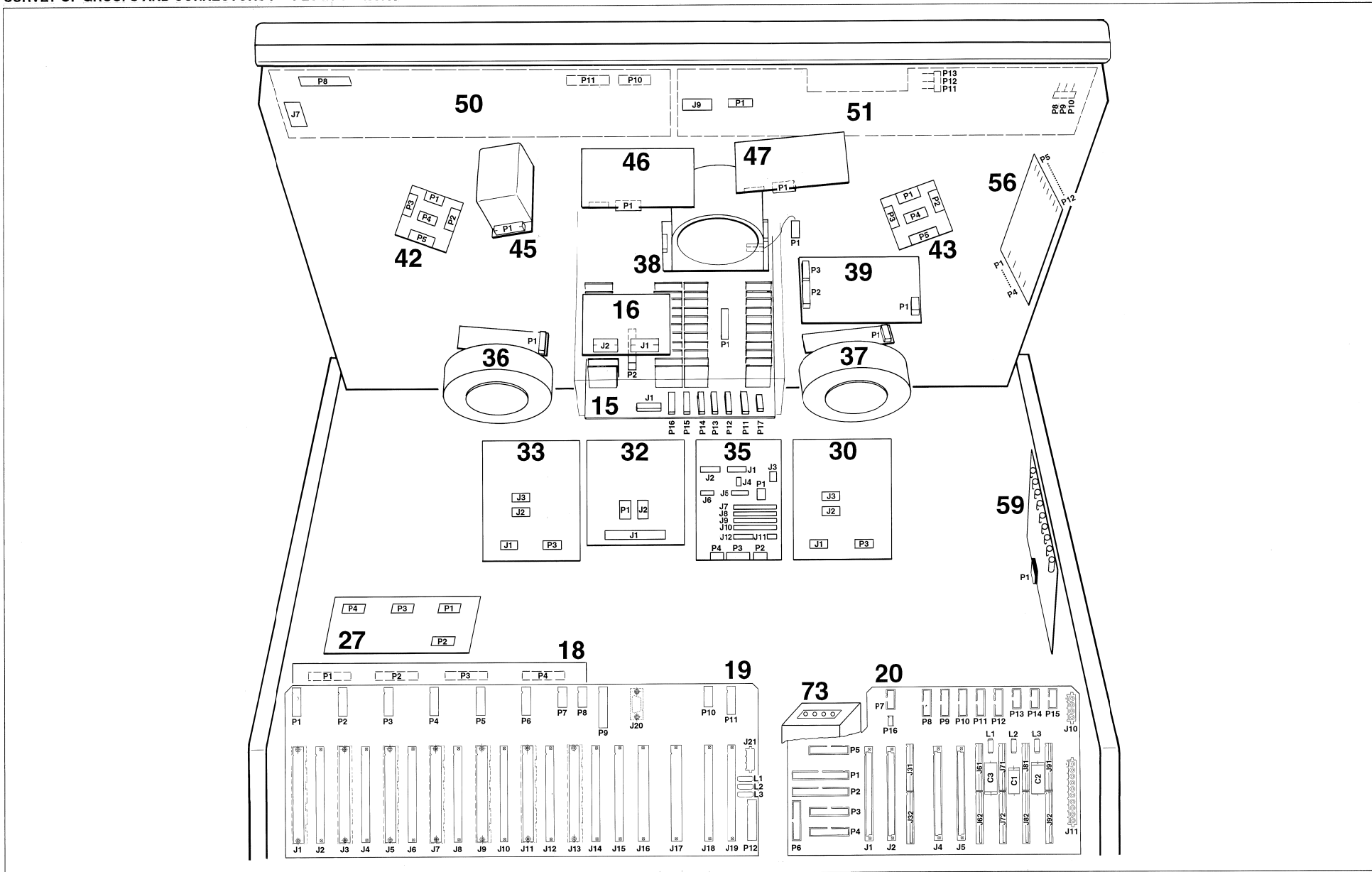
|                                  |   |       |
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## Group summary

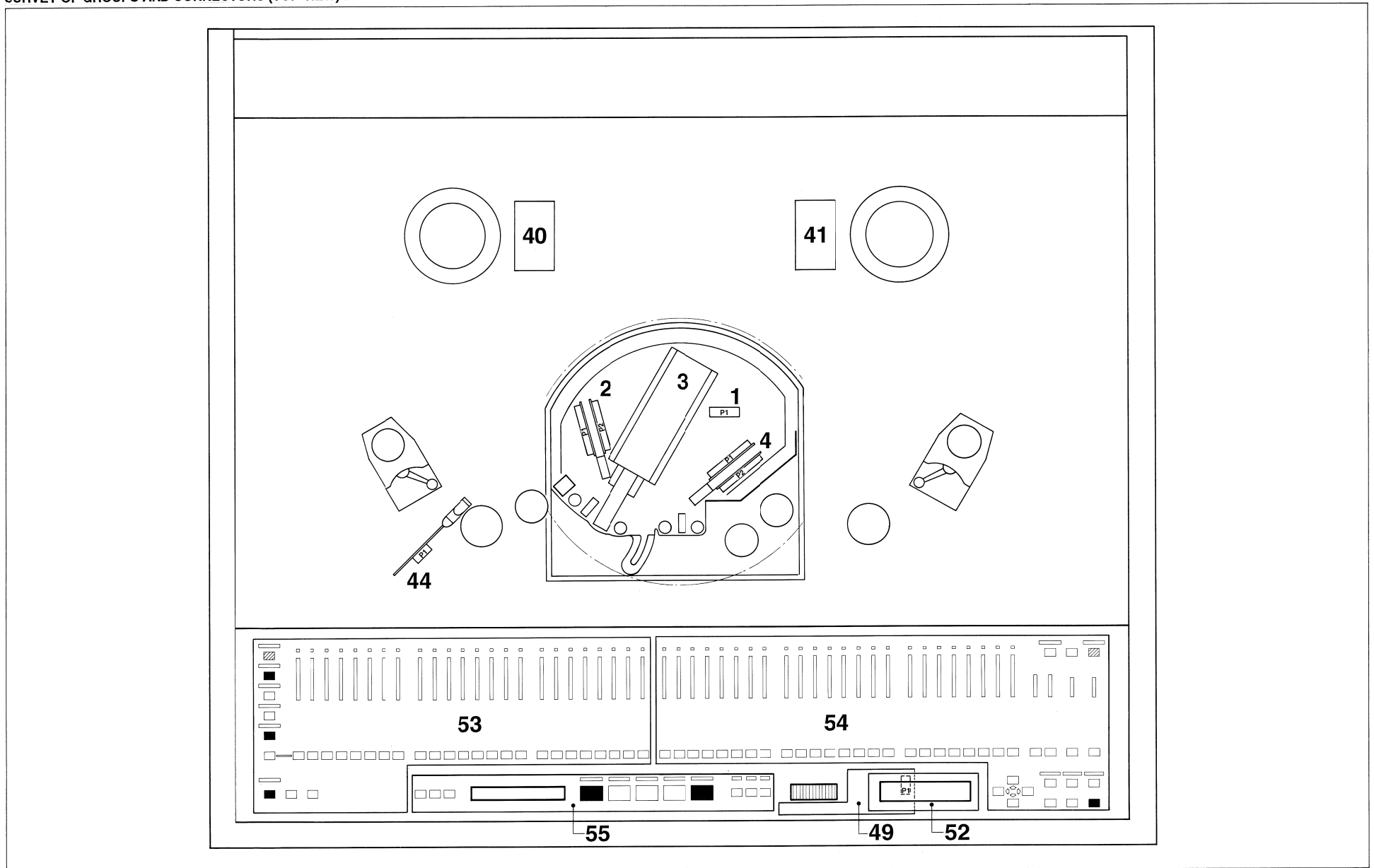
| POS. NO. | PART NO.   | VALUE   | SPECIFICATIONS / EQUIVALENT             |
|----------|------------|---------|---|
| GRP...1  | 1.050.494  |         | Erase Head Aux Tracks                   |
| GRP...2  | 1.050.490  | 48-CH   | Record Head, New Record                 |
| GRP...2  | 1.050.492  | (24-CH) | Record Head, New Record                 |
| GRP...3  | 1.050.491  | 48-CH   | Reproduce Head                          |
| GRP...3  | 1.050.493  | (24-CH) | Reproduce Head                          |
| GRP...4  | 1.050.490  | 48-CH   | Record Head, Sync Record                |
| GRP...4  | 1.050.492  | (24-CH) | Record Head, Sync Record                |
| GRP...6  | 1.863.610  |         | D827 Basis Board Left, XW1...XW4        |
| GRP...7  | 1.863.610  |         | D827 Basis Board Left, P1...P8          |
| GRP...9  | 1.863.611  |         | D827 Basis Board Right, XW14...XW17     |
| GRP..10  | 1.863.611  |         | D827 Basis Board Right, P1...P14        |
| GRP..11  | 1.863.612  |         | D827 PIF & SSTC I/O                     |
| GRP..15  | 1.862.710  | 48-CH   | Repro Preamplifier                      |
| GRP..15  | 1.862.711  | (24-CH) | Repro Preamplifier                      |
| GRP..16  | 1.862.743  |         | Preamplifier Supply                     |
| GRP..18  | 1.863.703  | 48-CH   | Junction Board                          |
| GRP..18  | 1.863.702  | (24-CH) | Junction Board                          |
| GRP..19  | 1.863.704  |         | Basis Board Audio CTR                   |
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| GRP..27  | 1.820.738  |         | Parallel Remote Interface               |
| GRP..30  | 1.863.875  |         | Spooling Motor Drive Ampl. Right        |
| GRP..32  | 1.820.832  |         | Stabilizer, +5.6V, +/-15V, +24V, +/-26V |
| GRP..33  | 1.863.875  |         | Spooling Motor Drive Ampl. Left         |
| GRP..35  | 1.863.744  |         | Power Distribution Board                |
| GRP..36  | 1.820.771  |         | Spooling Motor Tacho Board Left         |
| GRP..37  | 1.820.771  |         | Spooling Motor Tacho Board Right        |
| GRP..38  | 1.021.695  |         | Capstan Motor Sensor Electronic         |
| GRP..39  | 1.820.774  |         | Capstan Motor Drive Amplifier           |
| GRP..40  | 1.080.230  |         | Brake Assembly Left                     |
| GRP..41  | 1.080.240  |         | Brake Assembly Right                    |
| GRP..42  | 1.863.773  |         | Tape Deck Distribution Board Left       |
| GRP..43  | 1.863.773  |         | Tape Deck Distribution Board Right      |
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| GRP..45  | 1.820.770  |         | Move Sensor Board                       |
| GRP..46  | 1.820.773  |         | Tape Lifter Control Left                |
| GRP..47  | 1.820.773  |         | Tape Lifter Control Right               |
| GRP..49  | 1.863.250  |         | Edit Assembly                           |
| GRP..50  | 1.863.768  |         | TDC Contr. & Displ. Driver              |
| GRP..51  | 1.863.769  |         | Serbus CTR & Displ. Driver              |
| GRP..52  | 1.863.763  |         | Illuminated Display D827 MCH            |
| GRP..53  | 1.863.765  |         | Keybd & Display Print Left              |
| GRP..54  | 1.863.766  | 48-CH   | Keybd & Display Print Right             |
| GRP..54  | 1.863.764  | (24-CH) | Keybd & Display Print Right             |
| GRP..55  | 1.863.767  |         | TD Keybd & Display Print                |
| GRP..56  | 1.863.709  |         | DC/DC Convertor                         |
| GRP..59  | 1.816.866  |         | Fuse/Supply Failure Detector            |
| GRP..69  | 1.863.560  |         | Ventilator                              |
| GRP..73  | 73.01.0116 |         | Mech. Timer                             |



SURVEY OF GROUPS AND CONNECTORS P = PLUG / J = JACK



SURVEY OF GROUPS AND CONNECTORS (TOP VIEW) P = PLUG / J = JACK





## FLAT CABLES, WIRE HARNESS

|      | Start point of wireharness                | Gr. | El  |    | Destination of wireharness      | Gr. | El | # of pins | L in mm | Order Number |
|------|---|-----|-----|----|---------------------------------|-----|----|-----------|---------|--------------|
| FROM | Record Head, New Record (48CH) 1.050.490  | 02  | P1  | TO | Junction Board (48CH) 1.863.703 | 18  | P1 | 60        | 920     | 1.862.405.10 |
| FROM | Record Head, New Record (24CH) 1.050.492  | 02  | P1  | TO | Junction Board (24CH) 1.863.702 | 18  | P1 | 34        | 920     | 1.862.406.10 |
| FROM | Record Head, New Record (48CH) 1.050.490  | 02  | P2  | TO | Junction Board (48CH) 1.863.703 | 18  | P2 | 60        | 820     | 1.862.405.11 |
| FROM | Record Head, New Record (24CH) 1.050.492  | 02  | P2  | TO | Junction Board (24CH) 1.863.702 | 18  | P2 | 34        | 820     | 1.862.406.11 |
| FROM | Record Head, Sync Record (48CH) 1.050.490 | 04  | P1  | TO | Junction Board (48CH) 1.863.703 | 18  | P3 | 60        | 930     | 1.862.405.03 |
| FROM | Record Head, Sync Record (24CH) 1.050.492 | 04  | P1  | TO | Junction Board (24CH) 1.863.702 | 18  | P3 | 34        | 930     | 1.862.406.03 |
| FROM | Record Head, Sync Record (48CH) 1.050.490 | 04  | P2  | TO | Junction Board (48CH) 1.863.703 | 18  | P4 | 60        | 860     | 1.862.405.09 |
| FROM | Record Head, Sync Record (24CH) 1.050.492 | 04  | P2  | TO | Junction Board (24CH) 1.863.702 | 18  | P4 | 34        | 860     | 1.862.406.09 |
| FROM | Repro Preamplifier (48CH) 1.863.710*      | 15  | P11 | TO | Basis Board left 1.863.610      | 07  | P1 | 16        | 1200    | 1.023.101.12 |
| FROM | Repro Preamplifier (48CH) 1.863.710*      | 15  | P12 | TO | Basis Board left 1.863.610      | 07  | P2 | 16        | 1200    | 1.023.101.12 |
| FROM | Repro Preamplifier (48CH) 1.863.710*      | 15  | P13 | TO | Basis Board left 1.863.610      | 07  | P3 | 16        | 1200    | 1.023.101.12 |
| FROM | Repro Preamplifier (48CH) 1.863.710*      | 15  | P14 | TO | Basis Board left 1.863.610      | 07  | P4 | 16        | 1200    | 1.023.101.12 |
| FROM | Repro Preamplifier (48CH) 1.863.710*      | 15  | P15 | TO | Basis Board left 1.863.610      | 07  | P5 | 16        | 1200    | 1.023.101.12 |
| FROM | Repro Preamplifier (48CH) 1.863.710*      | 15  | P16 | TO | Basis Board left 1.863.610      | 07  | P6 | 16        | 1200    | 1.023.101.12 |
| FROM | Repro Preamplifier (48CH) 1.863.710*      | 15  | P17 | TO | Basis Board left 1.863.610      | 07  | P7 | 10        | 1200    | 1.023.100.12 |
| FROM | Basis Board Audio Control 1.863.704       | 19  | P1  | TO | Basis Board right 1.863.611     | 10  | P1 | 16        | 1200    | 1.023.101.12 |
| FROM | Basis Board Audio Control 1.863.704       | 19  | P2  | TO | Basis Board right 1.863.611     | 10  | P2 | 16        | 1150    | 1.023.101.20 |
| FROM | Basis Board Audio Control 1.863.704       | 19  | P3  | TO | Basis Board right 1.863.611     | 10  | P3 | 16        | 1150    | 1.023.101.20 |
| FROM | Basis Board Audio Control 1.863.704       | 19  | P4  | TO | Basis Board right 1.863.611     | 10  | P4 | 16        | 1150    | 1.023.101.20 |
| FROM | Basis Board Audio Control 1.863.704       | 19  | P5  | TO | Basis Board right 1.863.611     | 10  | P5 | 16        | 1100    | 1.023.101.11 |
| FROM | Basis Board Audio Control 1.863.704       | 19  | P6  | TO | Basis Board right 1.863.611     | 10  | P6 | 16        | 1100    | 1.023.101.11 |
| FROM | Basis Board Audio Control 1.863.704       | 19  | P7  | TO | Basis Board right 1.863.611     | 10  | P7 | 10        | 1100    | 1.023.100.11 |
| FROM | Basis Board Audio Control 1.863.704       | 19  | P8  | TO | Basis Board right 1.863.611     | 10  | P8 | 10        | 1100    | 1.023.100.11 |

\* For 24CH-Version: Repro Preamplifier (24CH) 1.863.711

Please note: To all listed cables may be used for 24CH-Version.

**STUDER D827 MCH**

**FLAT CABLES, WIRE HARNESS**

|      | Start point of wireharness        | Gr.       | El |     | Destination of wireharness | Gr.                                  | El        | # of pins | L in mm | Order Number |              |              |
|------|-----------------------------------|-----------|----|-----|----------------------------|--------------------------------------|-----------|-----------|---------|--------------|--------------|--------------|
| FROM | Basis Board Audio Control         | 1.863.704 | 19 | P10 | TO                         | Basis Board right                    | 1.863.611 | 10        | 10      | 2600         | 1.863.401.01 |              |
|      |                                   |           |    |     |                            | Serbus Control & Display Driver      | 1.863.769 | 51        |         |              |              | P1           |
| FROM | Basis Board Audio Control         | 1.863.704 | 19 | P11 | TO                         | Basis Board right                    | 1.863.611 | 10        | P14     | 16           | 1000         | 1.023.101.10 |
| FROM | Basis Board Tape Deck             | 1.863.701 | 20 | P1  | TO                         | Parallel Remote Interface            | 1.820.738 | 27        | P2      | 40           | 800          | 1.023.504.08 |
| FROM | Basis Board Tape Deck             | 1.863.701 | 20 | P2  | TO                         | Tape Deck Control & Display Driver   | 1.863.768 | 50        | P8      | 40           | 2000         | 1.023.504.20 |
| FROM | Basis Board Tape Deck             | 1.863.701 | 20 | P3  | TO                         | Basis Board right                    | 1.863.611 | 10        | P10     | 26           | 1000         | 1.023.502.10 |
| FROM | Basis Board Tape Deck             | 1.863.701 | 20 | P4  | TO                         | Basis Board right                    | 1.863.611 | 10        | P11     | 26           | 1100         | 1.023.502.11 |
| FROM | Basis Board Tape Deck             | 1.863.701 | 20 | P5  | TO                         | Basis Board right                    | 1.863.611 | 10        | 26      | 1300         | 1.863.403.01 |              |
|      |                                   |           |    |     |                            | Basis Board Audio Control            | 1.863.704 | 19        |         |              |              | P9           |
| FROM | Basis Board Tape Deck             | 1.863.701 | 20 | P7  | TO                         | Basis Board right                    | 1.863.611 | 10        | P9      | 10           | 900          | 1.023.500.09 |
| FROM | Basis Board Tape Deck             | 1.863.701 | 20 | P8  | TO                         | Capstan Motor Drive Amplifier        | 1.820.774 | 39        | P2      | 16           | 1320         | 1.023.101.13 |
| FROM | Basis Board Tape Deck             | 1.863.701 | 20 | P9  | TO                         | Tape Lifter Control left             | 1.820.773 | 46        | P2      | 16           | 1500         | 1.023.101.15 |
| FROM | Basis Board Tape Deck             | 1.863.701 | 20 | P10 | TO                         | Tape Lifter Control right            | 1.820.773 | 47        | P2      | 16           | 1600         | 1.023.101.16 |
| FROM | Basis Board Tape Deck             | 1.863.701 | 20 | P11 | TO                         | Tape Deck Distribution Board left    | 1.863.773 | 42        | P5      | 16           | 1600         | 1.023.501.16 |
| FROM | Basis Board Tape Deck             | 1.863.701 | 20 | P12 | TO                         | Tape Deck Distribution Board right   | 1.863.773 | 43        | P5      | 16           | 1400         | 1.023.501.14 |
| FROM | Basis Board Tape Deck             | 1.863.701 | 20 | P13 | TO                         | Spooling Motor Drive Amplifier right | 1.863.875 | 30        | P3      | 10           | 1000         | 1.023.100.10 |
| FROM | Basis Board Tape Deck             | 1.863.701 | 20 | P14 | TO                         | Spooling Motor Drive Amplifier left  | 1.863.875 | 33        | P3      | 10           | 1200         | 1.023.100.12 |
| FROM | Basis Board Tape Deck             | 1.863.701 | 20 | P15 | TO                         | Power Distribution Board             | 1.863.744 | 35        | P4      | 10           | 1000         | 1.023.100.10 |
| FROM | Parallel Remote Interface         | 1.820.738 | 27 | P3  | TO                         | PIF & SSTC I/O                       | 1.863.612 | 11        | J22     | 26           | 950          | 1.023.152.10 |
| FROM | Parallel Remote Interface         | 1.820.738 | 27 | P4  | TO                         | PIF & SSTC I/O                       | 1.863.612 | 11        | J21     | 26           | 950          | 1.023.152.10 |
| FROM | Power Distribution Board          | 1.863.744 | 35 | P2  | TO                         | Basis Board left                     | 1.863.610 | 07        | P8      | 10           | 1000         | 1.023.100.10 |
| FROM | Tape Deck Distribution Board left | 1.863.773 | 42 | P2  | TO                         | Spooling Motor Tacho Board left      | 1.863.190 | 36        | P1      | 10           | 300          | 1.023.100.03 |
| FROM | Tape Deck Distribution Board left | 1.863.773 | 42 | P3  | TO                         | Move Sensor Board                    | 1.820.770 | 45        | P1      | 10           | 150          | 1.023.300.02 |

**STUDER D827 MCH**

**FLAT CABLES, WIRE HARNESS**

|      | Start point of wireharness         | Gr.       | EI |     | Destination of wireharness | Gr.                              | EI        | # of pins | L in mm | Order Number |     |              |
|------|------------------------------------|-----------|----|-----|----------------------------|----------------------------------|-----------|-----------|---------|--------------|-----|--------------|
| FROM | Tape Deck Distribution Board left  | 1.863.773 | 42 | P4  | TO                         | Opto Sensor Board                | 1.820.793 | 44        | P1      | 10           | 200 | 1.023.100.02 |
| FROM | Tape Deck Distribution Board right | 1.863.773 | 43 | P2  | TO                         | Spooling Motor Tacho Board right | 1.820.771 | 37        | P1      | 10           | 300 | 1.023.100.03 |
| FROM | Tape Deck Control & Display Driver | 1.863.768 | 50 | P10 | TO                         | Edit Assembly                    | 1.863.250 | 49        | P1      | 10           | 400 | 1.023.100.04 |
| FROM | Fuse / Supply Failure Detector     | 1.816.866 | 59 | P1  | TO                         | Power Distribution Board         | 1.863.744 | 35        | P3      | 16           | 700 | 1.023.101.07 |
| FROM | MADI / IN                          |           |    |     | TO                         | MADI / IN                        |           |           |         | BNC          | 500 | 1.863.643.00 |
| FROM | MADI / OUT                         |           |    |     | TO                         | MADI / OUT                       |           |           |         | BNC          | 500 | 1.863.643.00 |
| OR   |                                    |           |    |     |                            |                                  |           |           |         |              |     |              |
| FROM | MADI / IN                          |           |    |     | TO                         | MADI / IN                        |           |           |         | OPTICAL      | 500 | 89.10.0011   |
| FROM | MADI / OUT                         |           |    |     | TO                         | MADI / OUT                       |           |           |         | OPTICAL      | 500 | 89.10.0012   |

# 1 Audio and System Control

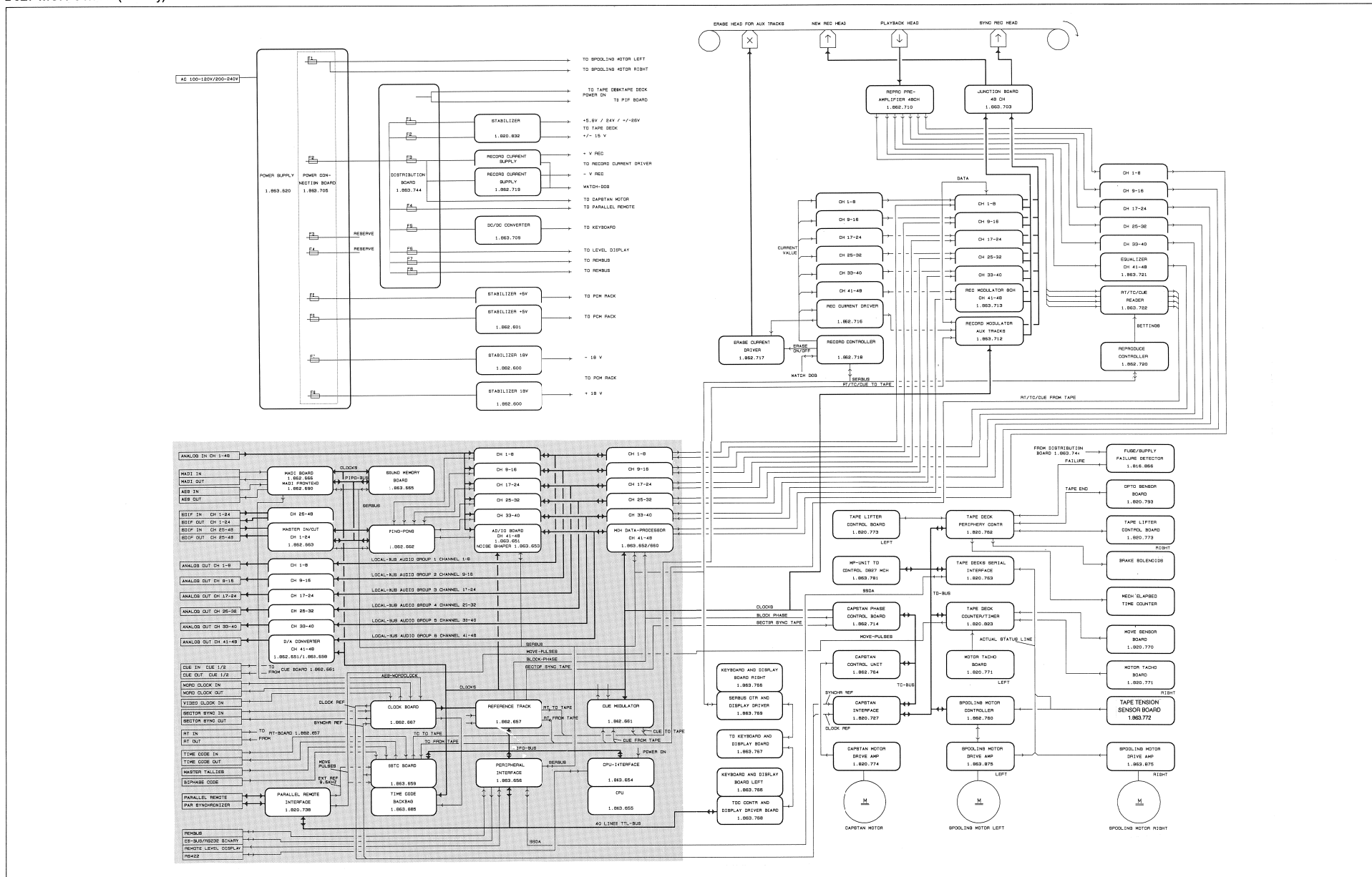
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## STUDER D827 MCH

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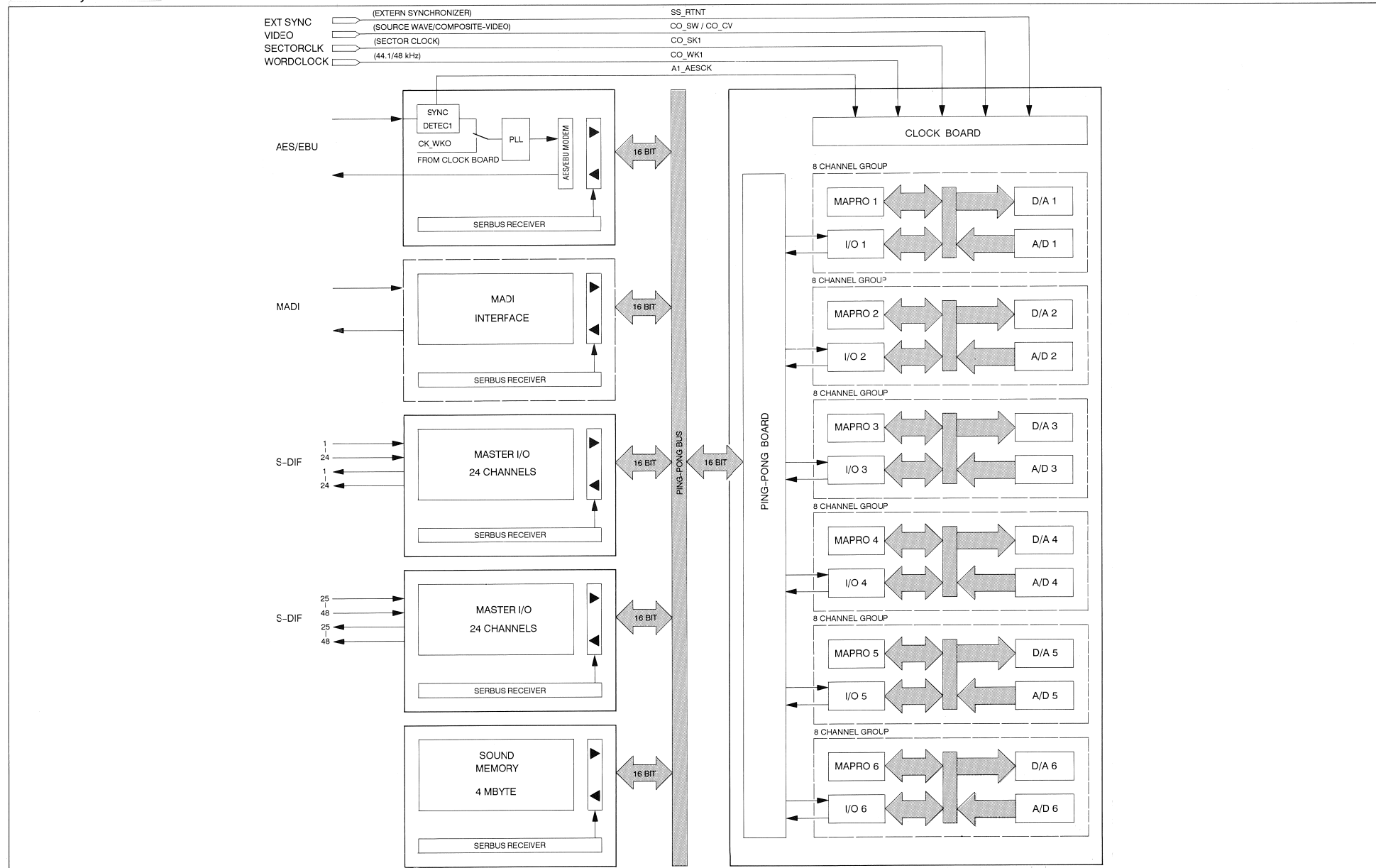
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BLOCK DIAGRAM  
D827 MCH Control (Survey)



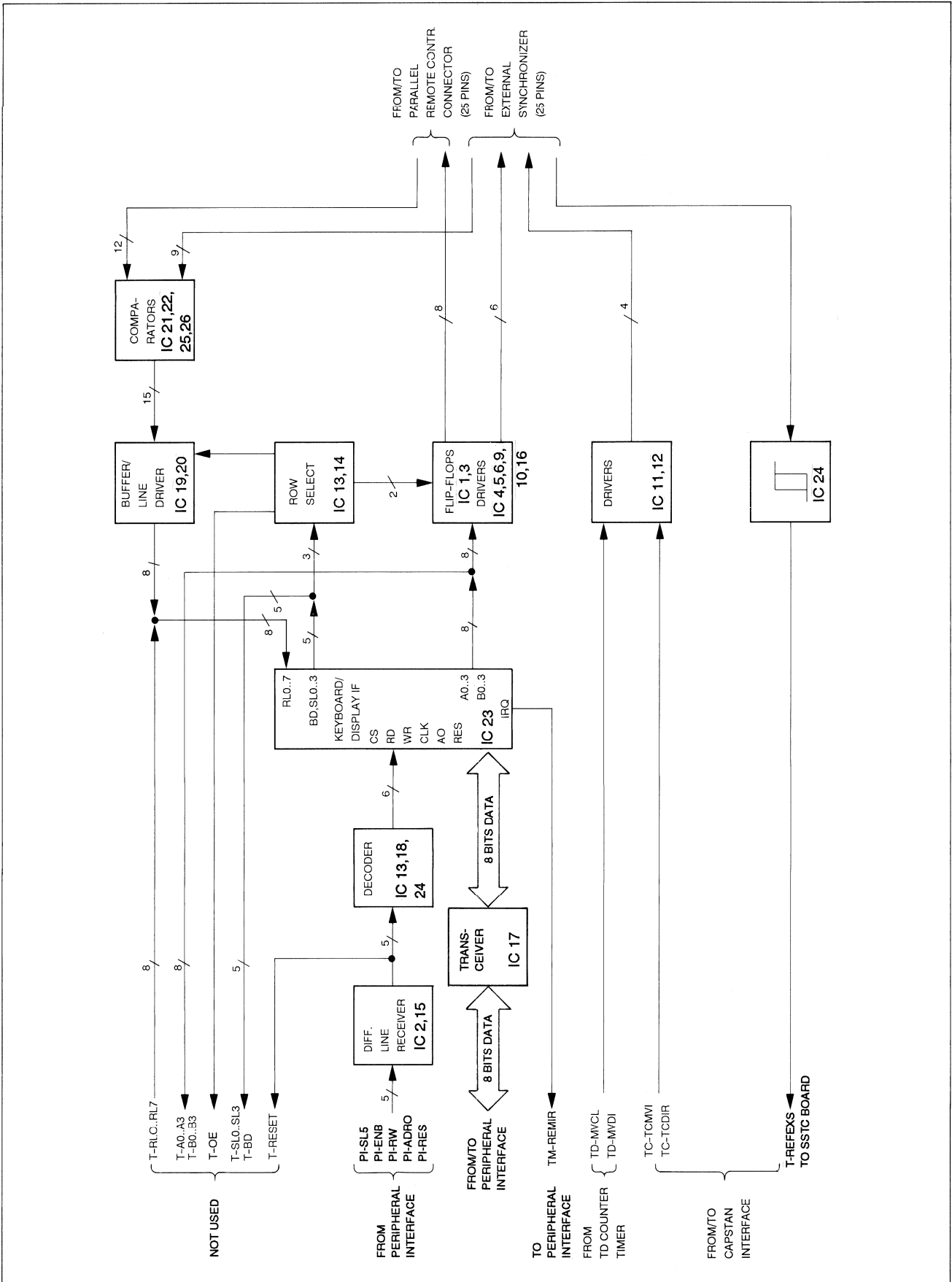
# STUDER D827 MCH

## BLOCK DIAGRAM Audio and System Control



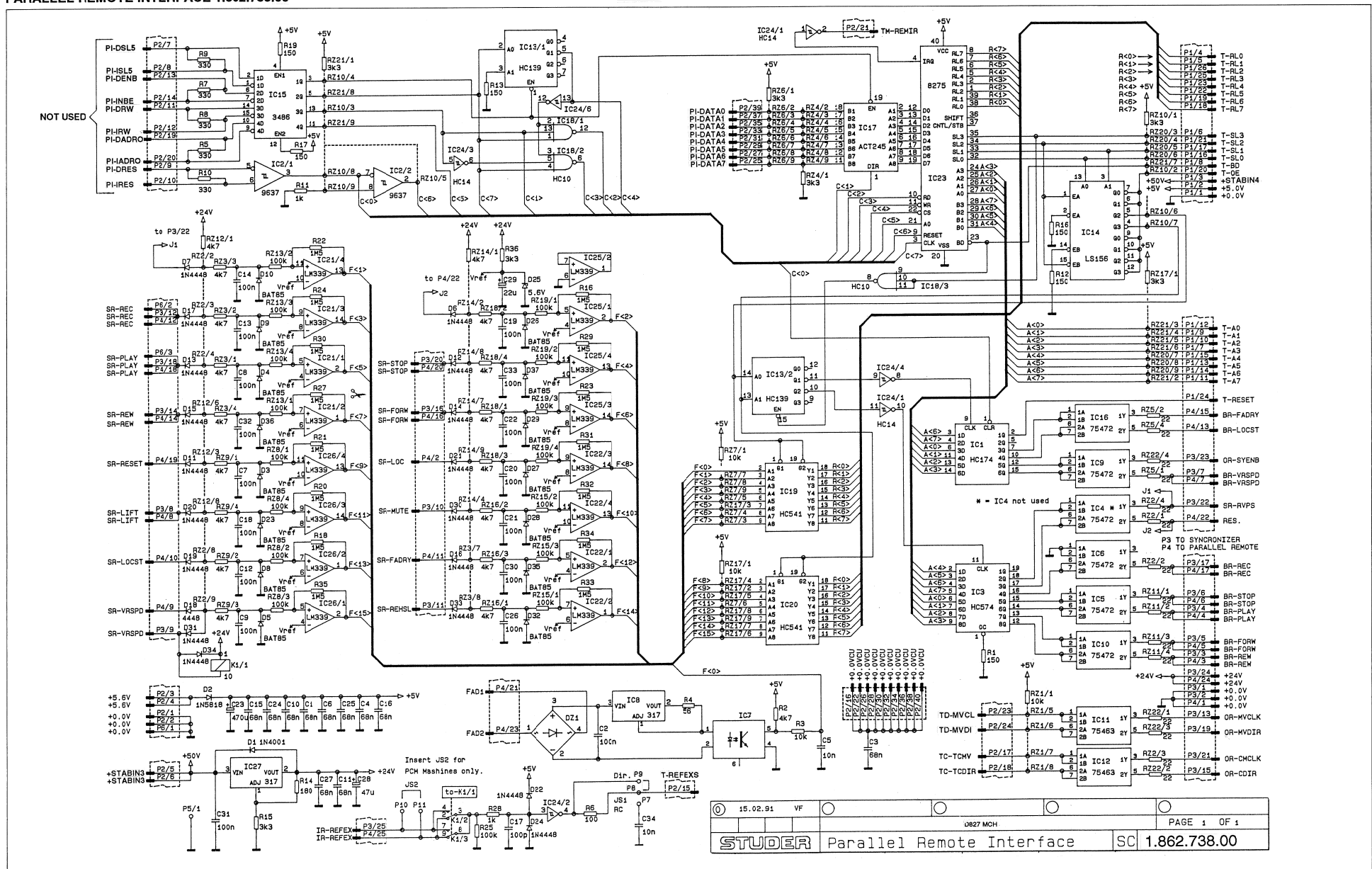


**BLOCK DIAGRAM**  
Parallel Remote Interface 1.862.738

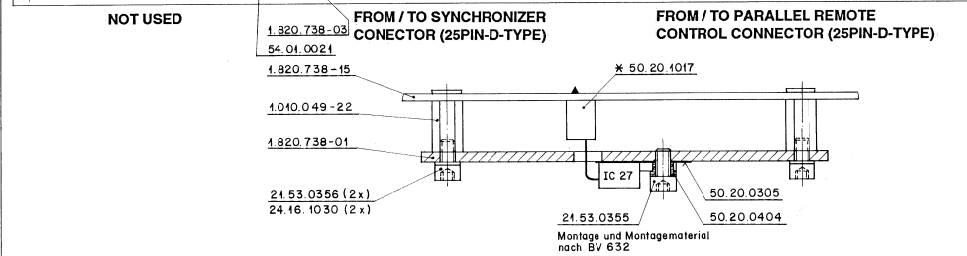
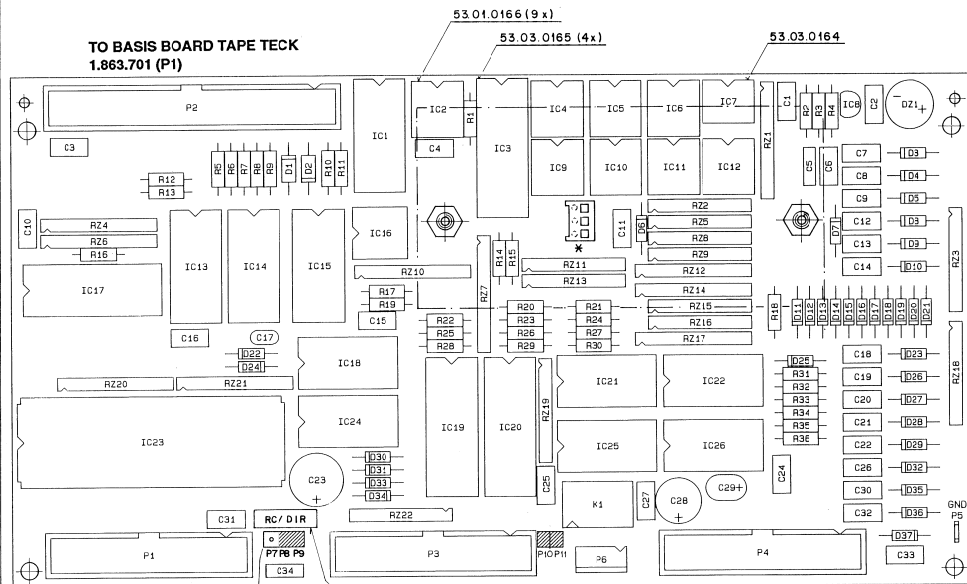


# STUDER D827 MCH

## PARALLEL REMOTE INTERFACE 1.862.738.00



PARALLEL REMOTE INTERFACE 1.862.738.00



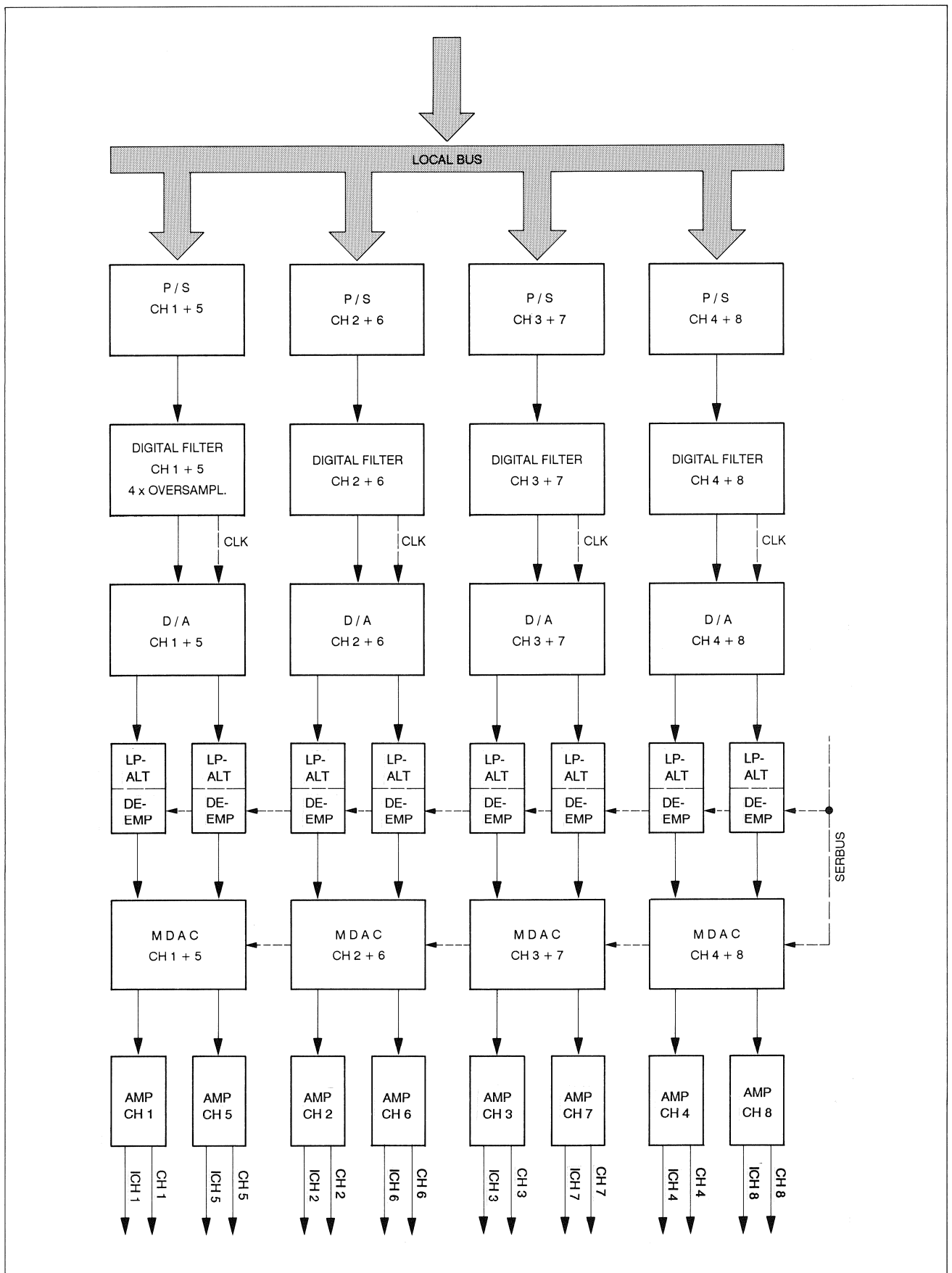
| Ad    | POS        | REF.No.    | DESCRIPTION    | MANUFACTURER                              |
|-------|------------|------------|----------------|---|
| C...  | 1          | 59.40.0683 | 68 nF          | -10%, PETP                                |
| C...  | 2          | 59.40.0104 | 0.1 uF         | -10%, PETP                                |
| C...  | 3          | 59.40.0683 | 68 nF          | -10%, PETP                                |
| C...  | 4          | 59.40.0683 | 68 nF          | -10%, PETP                                |
| C...  | 5          | 59.40.0103 | 10 nF          | -10%, PETP                                |
| C...  | 6          | 59.40.0683 | 68 nF          | -10%, PETP                                |
| C...  | 7          | 59.40.0104 | 0.1 uF         | -10%, PETP                                |
| C...  | 8          | 59.40.0104 | 0.1 uF         | -10%, PETP                                |
| C...  | 9          | 59.40.0104 | 0.1 uF         | -10%, PETP                                |
| C...  | 10         | 59.40.0683 | 68 nF          | -10%, PETP                                |
| C...  | 11         | 59.40.0683 | 68 nF          | -10%, PETP                                |
| C...  | 12         | 59.40.0104 | 0.1 uF         | -10%, PETP                                |
| C...  | 13         | 59.40.0104 | 0.1 uF         | -10%, PETP                                |
| C...  | 14         | 59.40.0104 | 0.1 uF         | -10%, PETP                                |
| C...  | 15         | 59.40.0683 | 68 nF          | -10%, PETP                                |
| C...  | 16         | 59.40.0683 | 68 nF          | -10%, PETP                                |
| C...  | 17         | 59.45.4011 | 100 pF         | 5%, CER                                   |
| C...  | 18         | 59.40.0104 | 0.1 uF         | -10%, PETP                                |
| C...  | 19         | 59.40.0104 | 0.1 uF         | -10%, PETP                                |
| C...  | 20         | 59.40.0104 | 0.1 uF         | -10%, PETP                                |
| C...  | 21         | 59.40.0104 | 0.1 uF         | -10%, PETP                                |
| C...  | 22         | 59.40.0104 | 0.1 uF         | -10%, PETP                                |
| C...  | 23         | 59.22.3471 | 470 uF         | -20%, 10V, EL                             |
| C...  | 24         | 59.40.0103 | 68 nF          | -10%, PETP                                |
| C...  | 25         | 59.40.0683 | 68 nF          | -10%, PETP                                |
| C...  | 26         | 59.40.0104 | 0.1 uF         | -10%, PETP                                |
| C...  | 27         | 59.40.0683 | 68 nF          | -10%, PETP                                |
| C...  | 28         | 59.41.6470 | 47 uF          | -20%, 40V, EL                             |
| C...  | 29         | 59.42.1220 | 22 uF          | -20%, 10V, SAL                            |
| C...  | 30         | 59.40.0104 | 0.1 uF         | -10%, PETP                                |
| C...  | 31         | 59.40.0104 | 0.1 uF         | -10%, PETP                                |
| C...  | 32         | 59.40.0104 | 0.1 uF         | -10%, PETP                                |
| C...  | 33         | 59.40.0104 | 0.1 uF         | -10%, PETP                                |
| C...  | 34         | 59.40.0103 | 10 nF          | -10%, PETP                                |
| D...  | 1          | 50.04.0122 | IN 4001        | IN4004 Mot                                |
| D...  | 2          | 50.04.0512 | IN 5818        | IN 5819 Ph,Stie                           |
| D...  | 3          | 50.04.0127 | BAT 85         | BAS 40-02 Ph,Stie                         |
| D...  | 4          | 50.04.0127 | BAT 85         | BAS 40-02 Ph,Stie                         |
| D...  | 5          | 50.04.0127 | BAT 85         | BAS 40-02 Ph,Stie                         |
| D...  | 6          | 50.04.0125 | IN 4448        | FC,ITT,Ph,Ses Ph,Stie                     |
| D...  | 7          | 50.04.0125 | IN 4448        | FC,ITT,Ph,Ses Ph,Stie                     |
| D...  | 8          | 50.04.0127 | BAT 85         | BAS 40-02 Ph,Stie                         |
| D...  | 9          | 50.04.0127 | BAT 85         | BAS 40-02 Ph,Stie                         |
| D...  | 10         | 50.04.0127 | BAT 85         | BAS 40-02 Ph,Stie                         |
| D...  | 11         | 50.04.0125 | IN 4448        | FC,ITT,Ph,Ses Ph,Stie                     |
| D...  | 12         | 50.04.0125 | IN 4448        | FC,ITT,Ph,Ses Ph,Stie                     |
| D...  | 13         | 50.04.0125 | IN 4448        | FC,ITT,Ph,Ses Ph,Stie                     |
| D...  | 14         | 50.04.0125 | IN 4448        | FC,ITT,Ph,Ses Ph,Stie                     |
| D...  | 15         | 50.04.0125 | IN 4448        | FC,ITT,Ph,Ses Ph,Stie                     |
| D...  | 16         | 50.04.0125 | IN 4448        | FC,ITT,Ph,Ses Ph,Stie                     |
| D...  | 17         | 50.04.0125 | IN 4448        | FC,ITT,Ph,Ses Ph,Stie                     |
| D...  | 18         | 50.04.0125 | IN 4448        | FC,ITT,Ph,Ses Ph,Stie                     |
| D...  | 19         | 50.04.0125 | IN 4448        | FC,ITT,Ph,Ses Ph,Stie                     |
| D...  | 20         | 50.04.0125 | IN 4448        | FC,ITT,Ph,Ses Ph,Stie                     |
| D...  | 21         | 50.04.0125 | IN 4448        | FC,ITT,Ph,Ses Ph,Stie                     |
| D...  | 22         | 50.04.0125 | IN 4448        | FC,ITT,Ph,Ses Ph,Stie                     |
| D...  | 23         | 50.04.0127 | BAT 85         | BAS 40-02 Ph,Stie                         |
| D...  | 24         | 50.04.0125 | IN 4448        | BAS 40-02 FC,ITT,Ph,Ses                   |
| D...  | 25         | 50.04.1108 | 5.6 V Z        | 82X83 c 5V6, 82X55 C 5V6, ZPD 5.6 ITT,Ses |
| D...  | 26         | 50.04.0127 | BAT 85         | BAS 40-02 Ph,Stie                         |
| D...  | 27         | 50.04.0127 | BAT 85         | BAS 40-02 Ph,Stie                         |
| D...  | 28         | 50.04.0127 | BAT 85         | BAS 40-02 Ph,Stie                         |
| D...  | 29         | 50.04.0127 | BAT 85         | BAS 40-02 Ph,Stie                         |
| D...  | 30         | 50.04.0125 | IN 4448        | FC,ITT,Ph,Ses Ph,Stie                     |
| D...  | 31         | 50.04.0125 | IN 4448        | FC,ITT,Ph,Ses Ph,Stie                     |
| D...  | 32         | 50.04.0127 | BAT 85         | BAS 40-02 Ph,Stie                         |
| D...  | 33         | 50.04.0125 | IN 4448        | FC,ITT,Ph,Ses Ph,Stie                     |
| D...  | 34         | 50.04.0125 | IN 4448        | FC,ITT,Ph,Ses Ph,Stie                     |
| D...  | 35         | 50.04.0127 | BAT 85         | BAS 40-02 Ph,Stie                         |
| D...  | 36         | 50.04.0127 | BAT 85         | BAS 40-02 Ph,Stie                         |
| D...  | 37         | 50.04.0127 | BAT 85         | BAS 40-02 Ph,Stie                         |
| D...  | 70.01.0223 |            | B 250 C 800 S1 | GI,Mot                                    |
| IC... | 1          | 50.17.1174 | 74 HC 174      | .. 74 HC 174 .. Mot,NS,Ph,RCA,SGS,TI,To   |
| IC... | 2          | 50.15.0114 | uA9637ATC      | .. uA9637KCP .. FC,TI                     |
| IC... | 3          | 50.17.1574 | 74 HC 574      | .. 74 HC 574 .. Mot,NS,Ph,RCA,SGS,TI,To   |
| IC... | 4          |            | 0 not used     | TI  |
| IC... | 5          | 50.05.0227 | SN 75462P      | TI  |
| IC... | 6          | 50.05.0227 | SN 75462P      | TI  |
| IC... | 7          | 50.99.0126 | AN 28          | 4N 26 Mot                                 |
| IC... | 8          | 50.10.0108 | LM 317 LZ      | NS,Mot                                    |
| IC... | 9          | 50.05.0227 | SN 75462P      | TI  |
| IC... | 10         | 50.05.0227 | SN 75462P      | TI  |
| IC... | 11         | 50.05.0203 | SN 75463P      | TI  |
| IC... | 12         | 50.05.0203 | SN 75463P      | TI  |
| IC... | 13         | 50.17.1139 | 74 HC 139      | .. 74 HC 139 .. Mot,NS,Ph,RCA,SGS,TI,To   |
| IC... | 14         | 50.06.0156 | 74 LS 156      | SN 74 LS 156 N FC,NS,TI                   |
| IC... | 15         | 50.15.0104 | MC 3486 P      | DS 3486 N Mot,NS                          |
| IC... | 16         | 50.05.0227 | SN 75462P      | TI  |
| IC... | 17         | 50.17.7245 | 74ACT 245      | .. 74ACT 245 .. Ph,Stie,Tf                |
| IC... | 18         | 50.17.1010 | 74 HC 10       | .. 74 HC 10 .. Mot,NS,Ph,RCA,SGS,TI,To    |
| IC... | 19         | 50.17.1541 | 74 HC 541      | .. 74 HC 541 .. Mot,NS,Ph,RCA,SGS,TI,To   |
| IC... | 20         | 50.17.1541 | 74 HC 541      | .. 74 HC 541 .. Mot,NS,Ph,RCA,SGS,TI,To   |
| IC... | 21         | 50.11.0104 | LM 339 AN      | 339 A,UA 339 FC,Mot,NS,Tho                |
| IC... | 22         | 50.11.0104 | LM 339 AN      | 339 A,UA 339 FC,Mot,NS,Tho                |
| IC... | 23         | 50.16.0111 | IP 8279-5      | MSL 8279 P-5 TI,NI                        |
| IC... | 24         | 50.17.1012 | 74 HC 14       | .. 74 HC 14 .. Mot,NS,Ph,RCA,SGS,TI,To    |
| IC... | 25         | 50.11.0104 | LM 339 AN      | 339 A,UA 339 FC,Mot,NS,Tho                |

|                               |                                     |              |
|-------------------------------|-------------------------------------|--------------|
| STUDER<br>RESENDORF<br>ZÜRICH | PARALLEL REMOTE<br>INTERFACE<br>ESE | 1.862.738.00 |
|-------------------------------|-------------------------------------|--------------|

| Ad    | POS | REF.No.    | DESCRIPTION | MANUFACTURER                   |
|-------|-----|------------|-------------|--------------------------------|
| IC... | 26  | 50.11.0104 | LM 339 AN   | 339 A,UA 339 FC,Mot,NS,Tho     |
| IC... | 27  | 50.10.0104 | LM 317 T    | LM 317 SP NS,Mot,TI,Tho        |
| K...  | 1   | 56.04.0197 | 24 V 2U     | 125V/ 2 A, AG/AU               |
| P...  | 1   | 54.14.2003 | Connector   | 26 contacts, flat cable        |
| P...  | 2   | 54.14.2004 | Connector   | 40 contacts, flat cable        |
| P...  | 3   | 54.14.2003 | Connector   | 26 contacts, flat cable        |
| P...  | 4   | 54.14.2003 | Connector   | 26 contacts, flat cable        |
| P...  | 5   | 54.02.0320 | Connector   | 1 contact x 2.8*0.8, flat      |
| P...  | 6   | 54.99.0213 | Connector   | 4 contacts, straight, AMP      |
| P...  | 7   | 54.01.0020 | Connector   | 1 contact x .63*.63, H=5.8/3.4 |
| P...  | 8   | 54.01.0020 | Connector   | 1 contact x .63*.63, H=5.8/3.4 |
| P...  | 9   | 54.01.0020 | Connector   | 1 contact x .63*.63, H=5.8/3.4 |
| P...  | 10  | 54.01.0020 | Connector   | 1 contact x .63*.63, H=5.8/3.4 |
| P...  | 11  | 54.01.0020 | Connector   | 1 contact x .63*.63, H=5.8/3.4 |
| R...  | 1   | 57.11.3151 | 150 Ohm     | 2%                             |
| R...  | 2   | 57.11.3472 | 4.7 kOhm    | 2%                             |
| R...  | 3   | 57.11.3103 | 10 kOhm     | 2%                             |
| R...  | 4   | 57.11.3560 | 56 Ohm      | 2%                             |
| R...  | 5   | 57.11.3331 | 330 Ohm     | 2%                             |
| R...  | 6   | 57.11.3101 | 100 Ohm     | 2%                             |
| R...  | 7   | 57.11.3331 | 330 Ohm     | 2%                             |
| R...  | 8   | 57.11.3331 | 330 Ohm     | 2%                             |
| R...  | 9   | 57.11.3331 | 330 Ohm     | 2%                             |
| R...  | 10  | 57.11.3331 | 330 Ohm     | 2%                             |
| R...  | 11  | 57.11.3102 | 1 kOhm      | 2%                             |
| R...  | 12  | 57.11.3151 | 150 Ohm     | 2%                             |
| R...  | 13  | 57.11.3151 | 150 Ohm     | 2%                             |
| R...  | 14  | 57.11.3181 | 180 Ohm     | 1%                             |
| R...  | 15  | 57.11.3332 | 3.3 kOhm    | 2%                             |
| R...  | 16  | 57.11.3151 | 150 Ohm     | 2%                             |
| R...  | 17  | 57.11.3151 | 150 Ohm     | 2%                             |
| R...  | 18  | 57.11.5155 | 1.5 MOhm    | 5%                             |
| R...  | 19  | 57.11.5155 | 1.5 MOhm    | 5%                             |
| R...  | 20  | 57.11.5155 | 1.5 MOhm    | 5%                             |
| R...  | 21  | 57.11.5155 | 1.5 MOhm    | 5%                             |
| R...  | 22  | 57.11.5155 | 1.5 MOhm    | 5%                             |
| R...  | 23  | 57.11.5155 | 1.5 MOhm    | 5%                             |
| R...  | 24  | 57.11.5155 | 1.5 MOhm    | 5%                             |
| R...  | 25  | 57.11.3104 | 100 kOhm    | 2%                             |
| R...  | 26  | 57.11.5155 | 1.5 MOhm    | 5%                             |
| R...  | 27  | 57.11.5155 | 1.5 MOhm    | 5%                             |
| R...  | 28  | 57.11.3102 | 1 kOhm      | 2%                             |
| R...  | 29  | 57.11.5155 | 1.5 MOhm    | 5%                             |
| R...  | 30  | 57.11.5155 | 1.5 MOhm    | 5%                             |
| R...  | 31  | 57.11.5155 | 1.5 MOhm    | 5%                             |
| R...  | 32  | 57.11.5155 | 1.5 MOhm    | 5%                             |
| R...  | 33  | 57.11.5155 | 1.5 MOhm    | 5%                             |
| R...  | 34  | 57.11.5155 | 1.5 MOhm    | 5%                             |
| R...  | 35  | 57.11.5155 | 1.5 MOhm    | 5%                             |
| R...  | 36  | 57.11.3332 | 3.3 kOhm    | 2%                             |
| RZ... | 1   | 57.88.4103 | Network     | 8 * 10 kOhm, 2%, single line   |
| RZ... | 2   | 57.88.2220 | Network     | 4 * 22 Ohm, 2%, single line    |
| RZ... | 3   | 57.88.2472 | Network     | 4 * 4.7 kOhm, 2%, single line  |
| RZ... | 4   | 57.88.4332 | Network     | 8 * 3.3 kOhm, 5%, single line  |
| RZ... | 5   | 57.88.2220 | Network     | 4 * 22 Ohm, 2%, single line    |
| RZ... | 6   | 57.88.4332 | Network     | 8 * 3.3 kOhm, 5%, single line  |
| RZ... | 7   | 57.88.4103 | Network     | 8 * 10 kOhm, 2%, single line   |
| RZ... | 8   | 57.88.2104 | Network     | 4 * 100 kOhm, 2%, single line  |
| RZ... | 9   | 57.88.2472 | Network     | 4 * 4.7 kOhm, 2%, single line  |
| RZ... | 10  | 57.88.4332 | Network     | 8 * 3.3 kOhm, 5%, single line  |
| RZ... | 11  | 57.88.2220 | Network     | 4 * 22 Ohm, 2%, single line    |
| RZ... | 12  | 57.88.4472 | Network     | 8 * 4.7 kOhm, 2%, single line  |
| RZ... | 13  | 57.88.2104 | Network     | 4 * 100 kOhm, 2%, single line  |
| RZ... | 14  | 57.88.4472 | Network     | 8 * 4.7 kOhm, 2%, single line  |
| RZ... | 15  | 57.88.2104 | Network     | 4 * 100 kOhm, 2%, single line  |
| RZ... | 16  | 57.88.2472 | Network     | 4 * 4.7 kOhm, 2%, single line  |
| RZ... | 17  | 57.88.4103 | Network     | 8 * 10 kOhm, 2%, single line   |
| RZ... | 18  | 57.88.2472 | Network     | 4 * 4.7 kOhm, 2%, single line  |
| RZ... | 19  | 57.88.2104 | Network     | 4 * 100 kOhm, 2%, single line  |
| RZ... | 20  | 57.88.4332 | Network     | 8 * 3.3 kOhm, 5%, single line  |
| RZ... | 21  | 57.88.4332 | Network     | 8 * 3.3 kOhm, 5%, single line  |
| RZ... | 22  | 57.88.2220 | Network     | 4 * 22 Ohm, 2%, single line    |

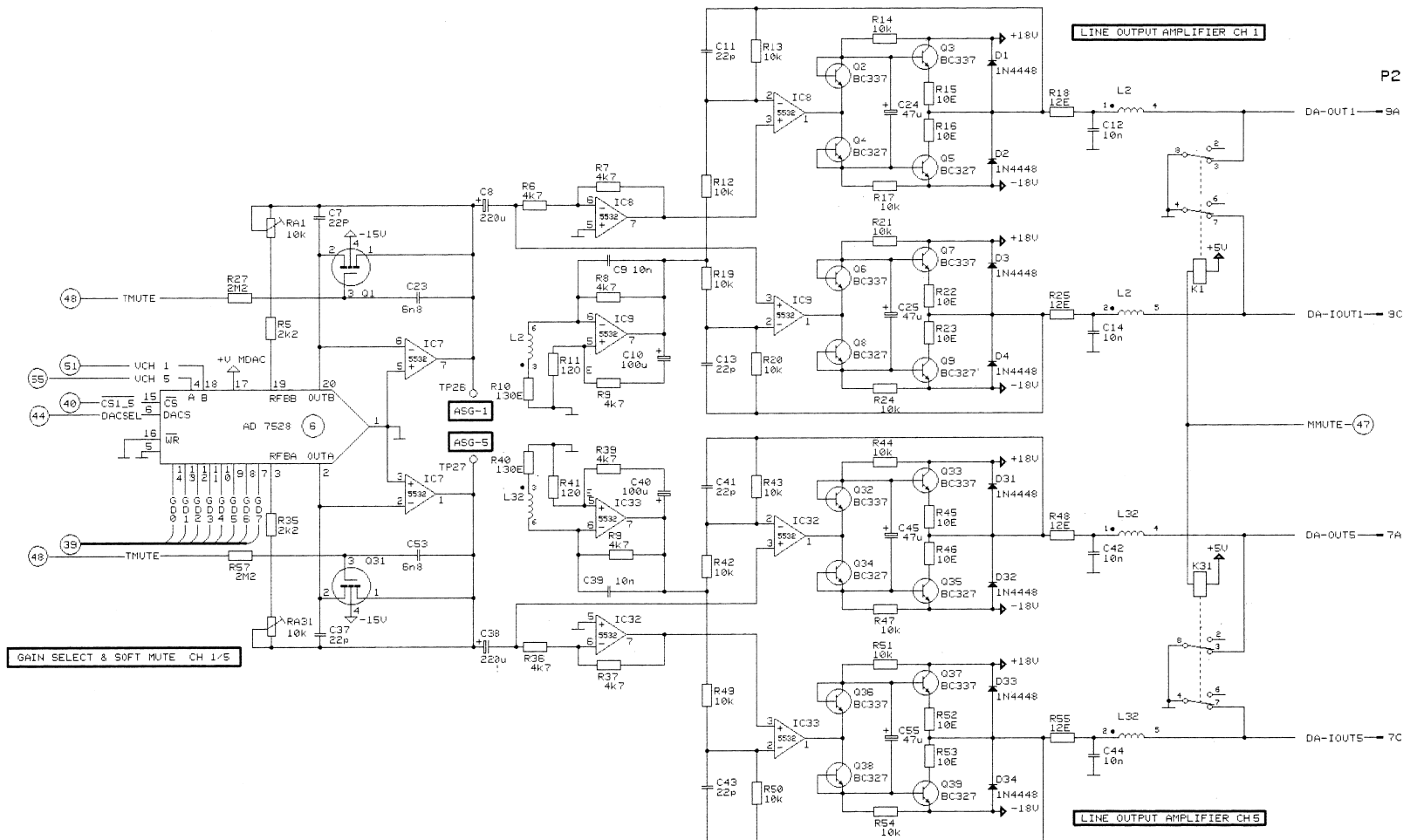
**BLOCK DIAGRAM**

D / A - Converter 1.862.651 (OPTION)





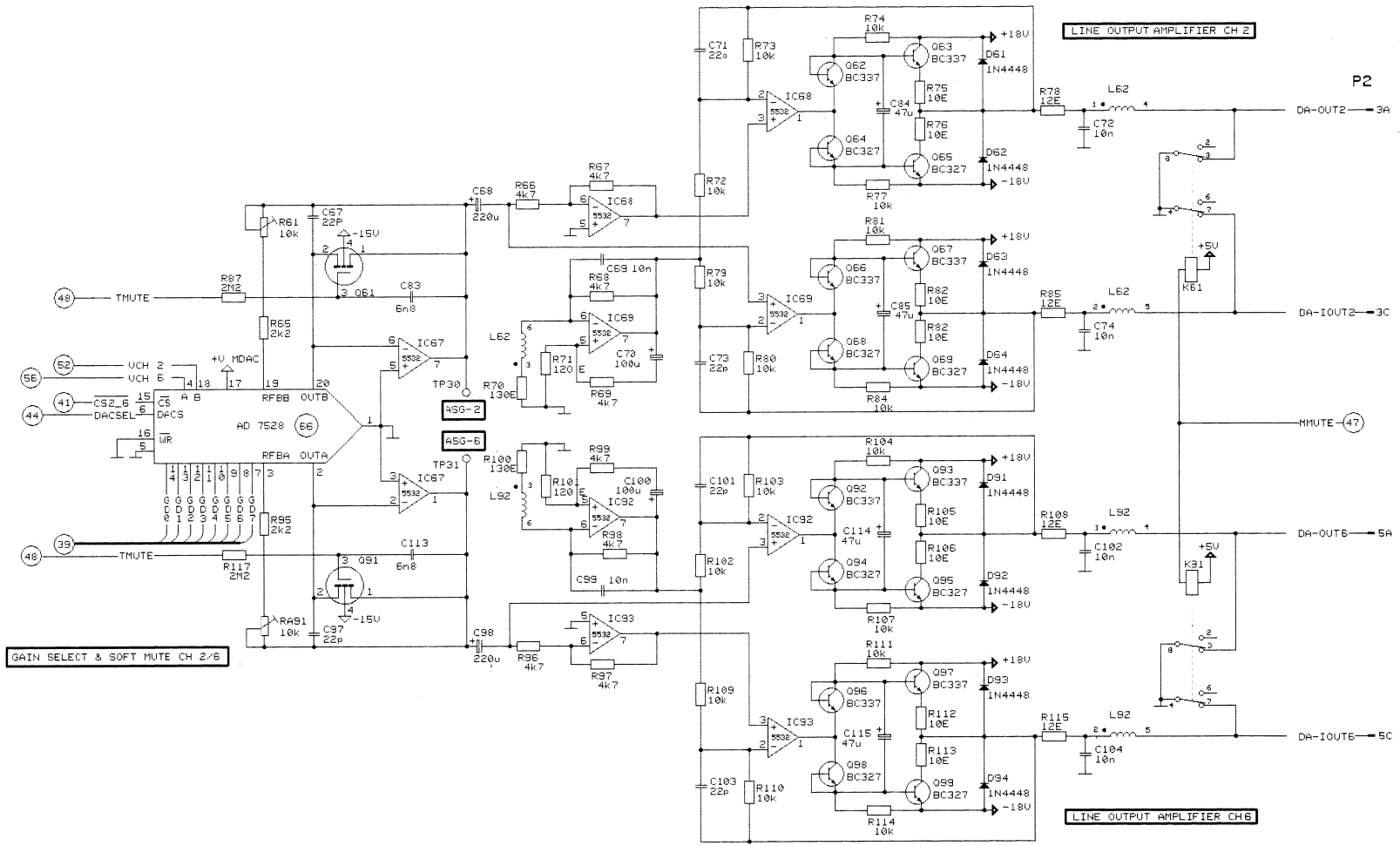
D / A - CONVERTER 1.862.651.21 (OPTION)



|              |              |                   |   |                 |
|--------------|--------------|-------------------|---|-----------------|
| ① 8.7.87 HJK | ① 18.1.89 ER | ② 7.2.89 ER       | ○ | ○               |
| D827 MCH     |              | PAGE 1 OF 9       |   |                 |
| STUDER       |              | D / A - CONVERTER |   | SC 1.862.651.21 |



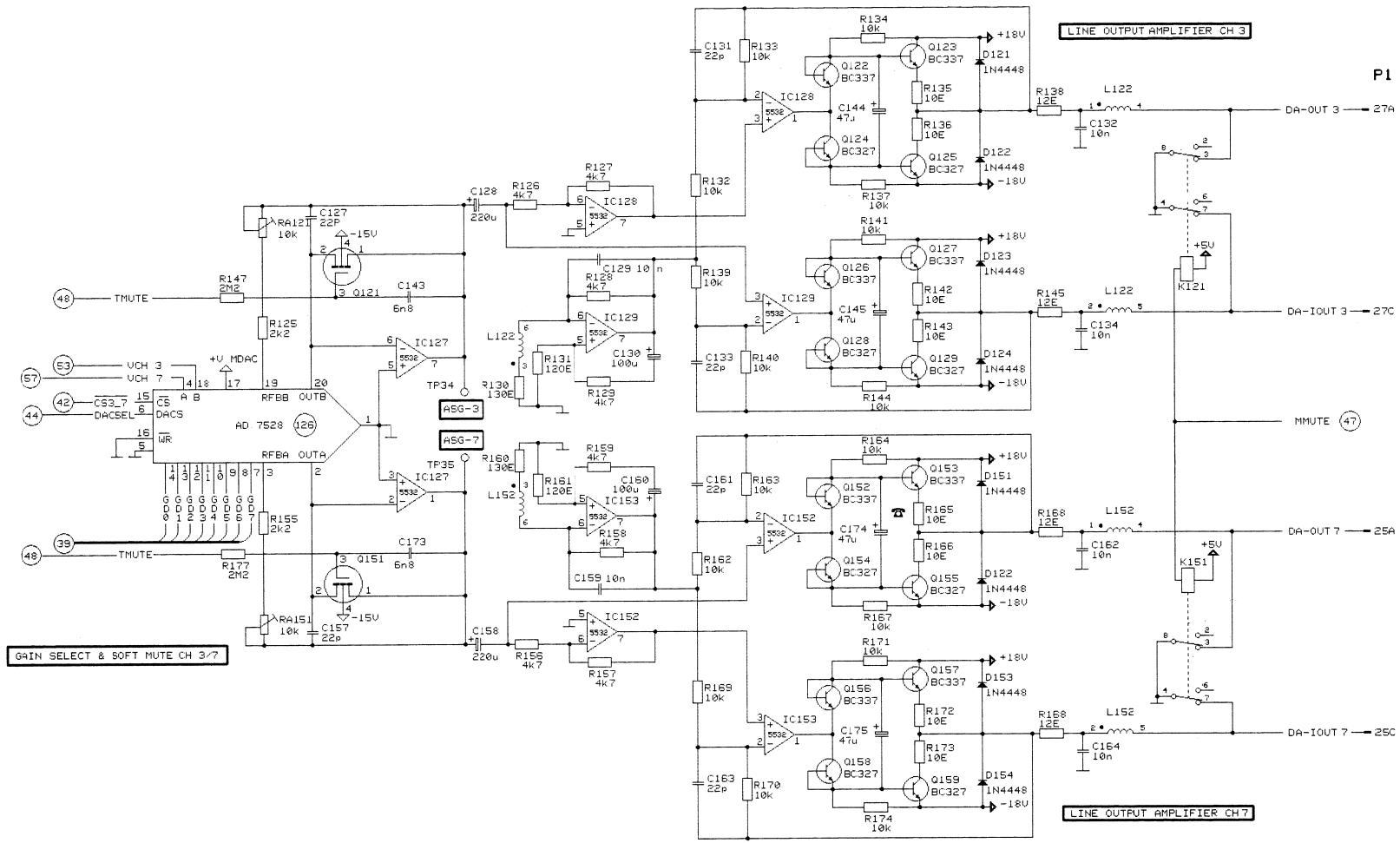
D / A - CONVERTER 1.862.651.21 (OPTION)



|                          |             |   |             |              |
|--------------------------|-------------|---|-------------|--------------|
| ⑧ 8.7.87 HJK             | ① 7.2.89 ER | ○ | ○           | ○            |
| D827 MCH                 |             |   | PAGE 2 OF 3 |              |
| STUDER D / A - CONVERTER |             |   | SC          | 1.862.651.24 |



D / A - CONVERTER 1.862.651.21 (OPTION)

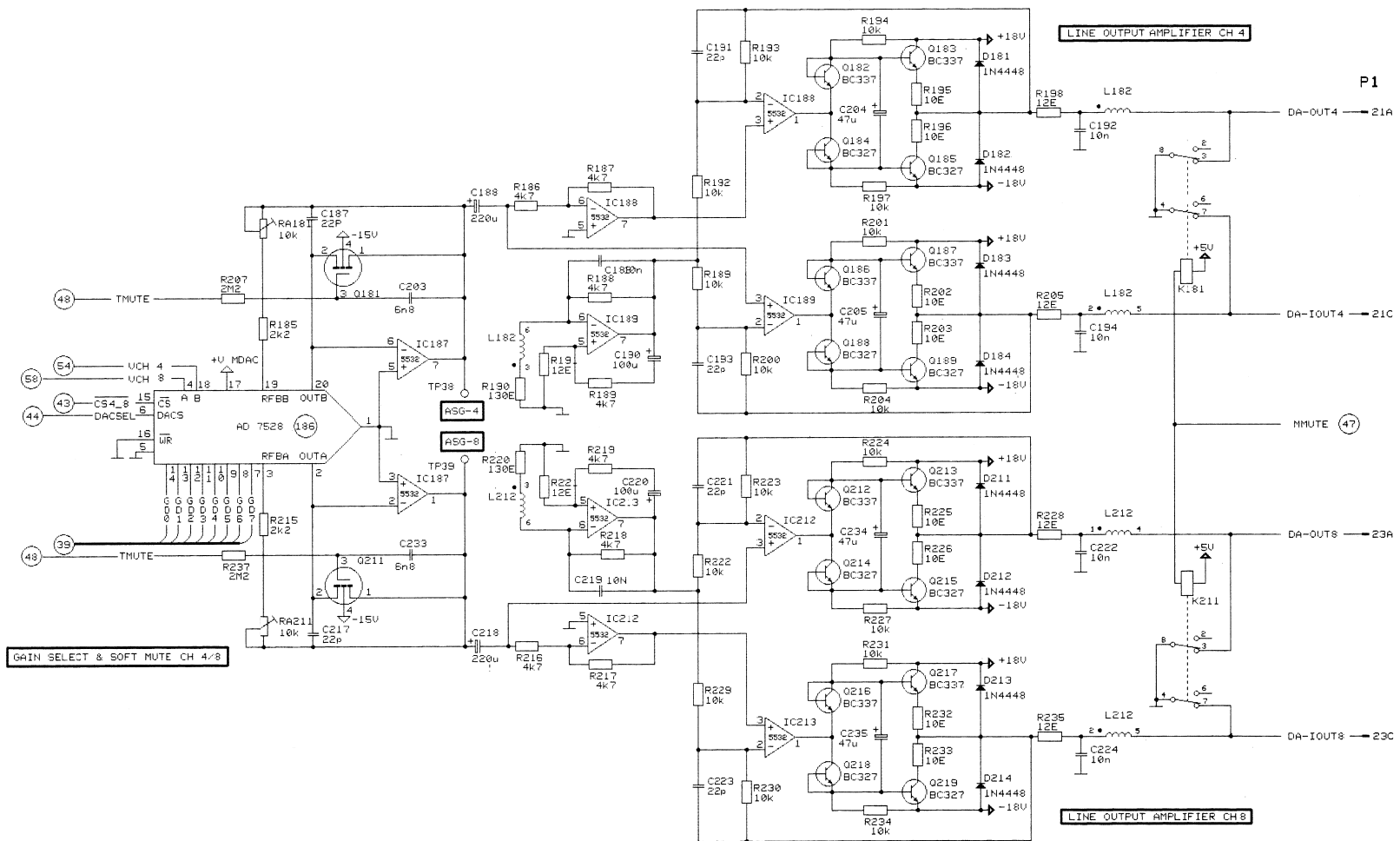


|                          |              |             |             |              |
|--------------------------|--------------|-------------|-------------|--------------|
| ① 8.7.87 HJK             | ① 18.1.88 ER | ② 7.2.89 ER | ○           | ○            |
| D827 MCH                 |              |             | PAGE 3 OF 9 |              |
| STUDER D / A - CONVERTER |              |             | SC          | 1.862.651.21 |





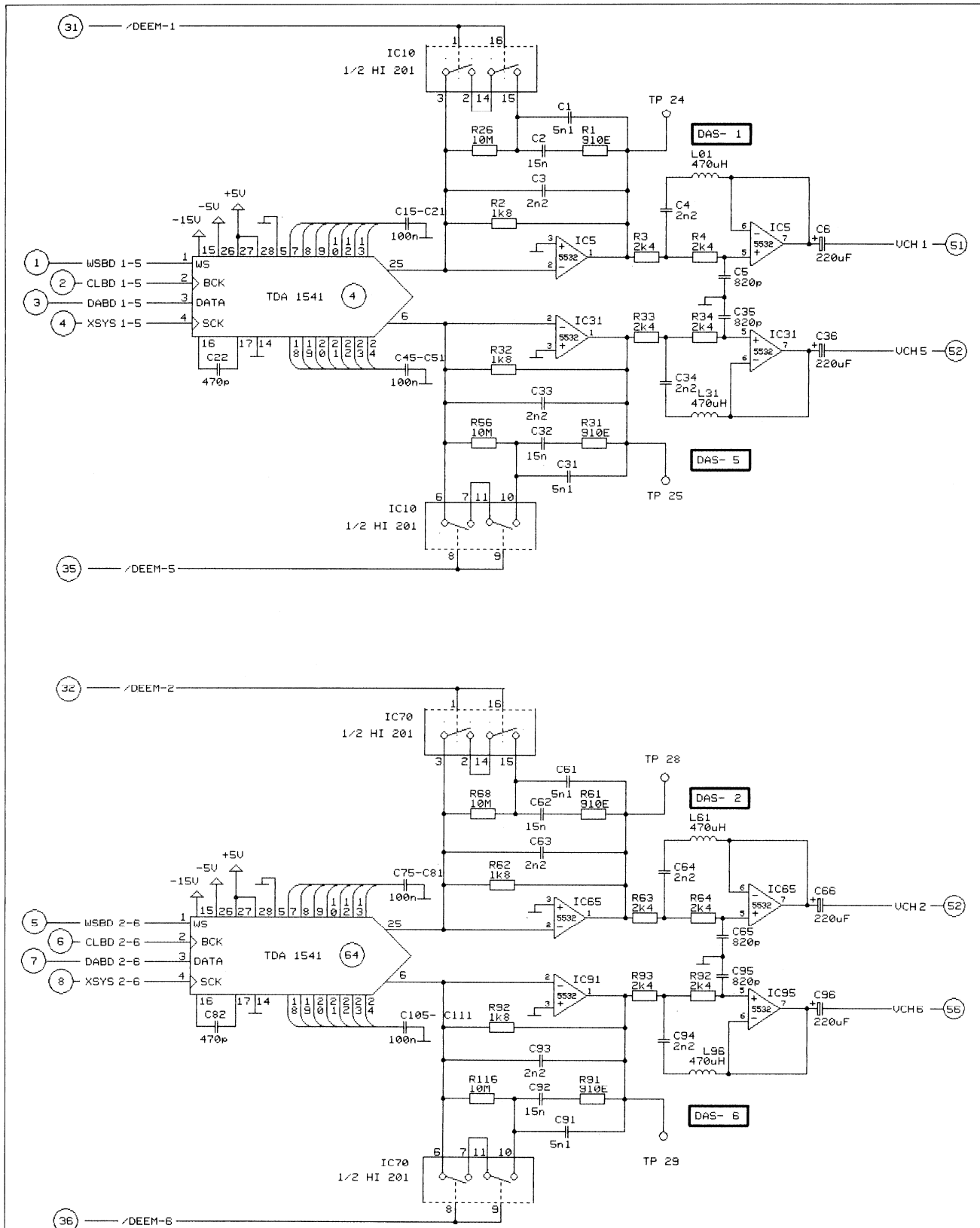
D / A - CONVERTER 1.862.651.21 (OPTION)



|                          |              |             |             |              |
|--------------------------|--------------|-------------|-------------|--------------|
| ① 8.7.87 HJK             | ① 18.1.88 ER | ② 7.2.89 ER | ○           | ○            |
| D827 MCH                 |              |             | PAGE 4 OF 9 |              |
| STUDER D / A - CONVERTER |              |             | SC          | 1.862.651.21 |



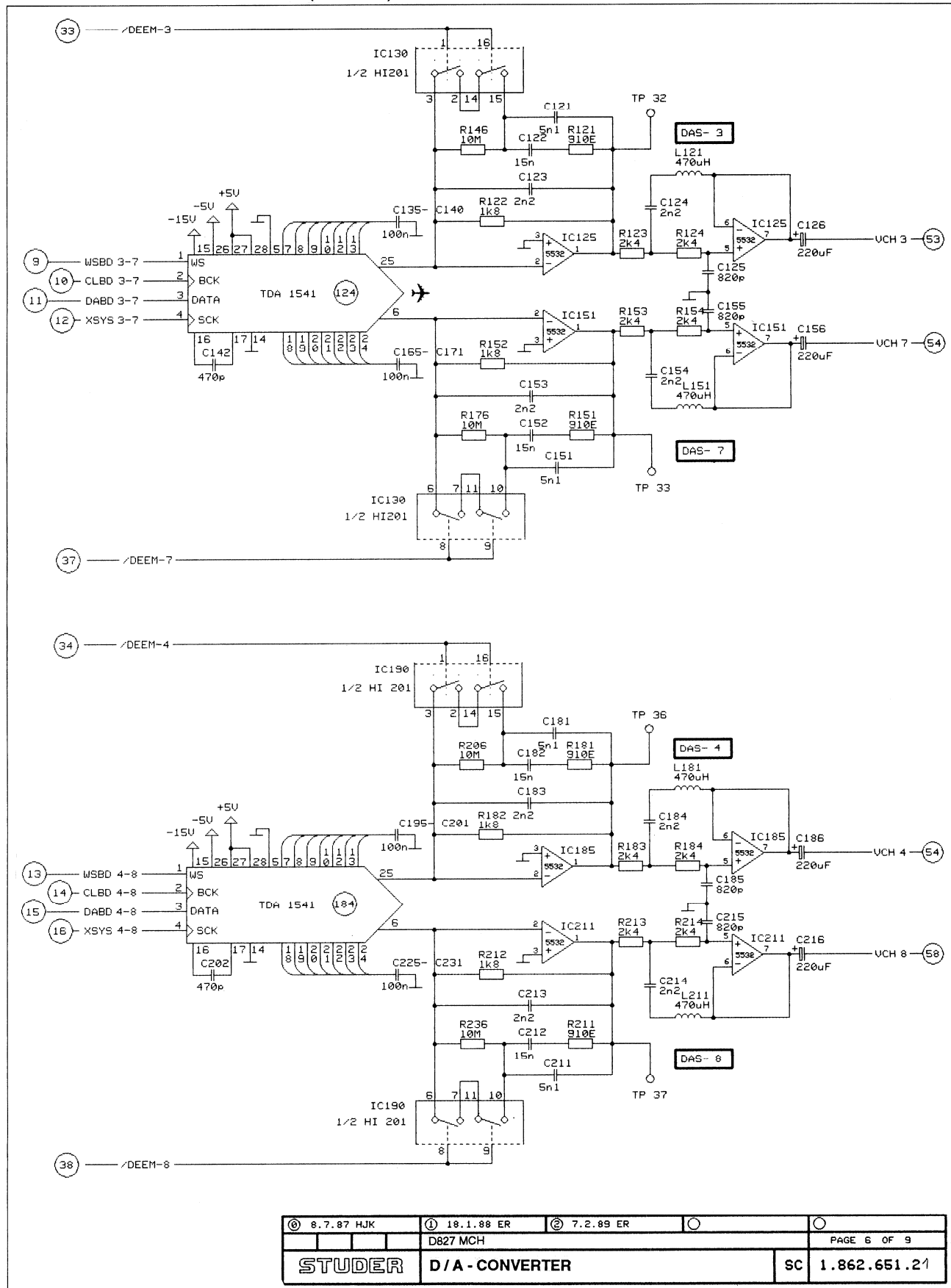
D / A - CONVERTER 1.862.651.21 (OPTION)



|              |              |                   |   |                 |
|--------------|--------------|-------------------|---|-----------------|
| ① 8.7.87 HJK | ② 18.1.88 ER | ③ 7.2.89 ER       | ○ | ○               |
| D827 MCH     |              |                   |   | PAGE 5 OF 9     |
| STUDER       |              | D / A - CONVERTER |   | SC 1.862.651.21 |



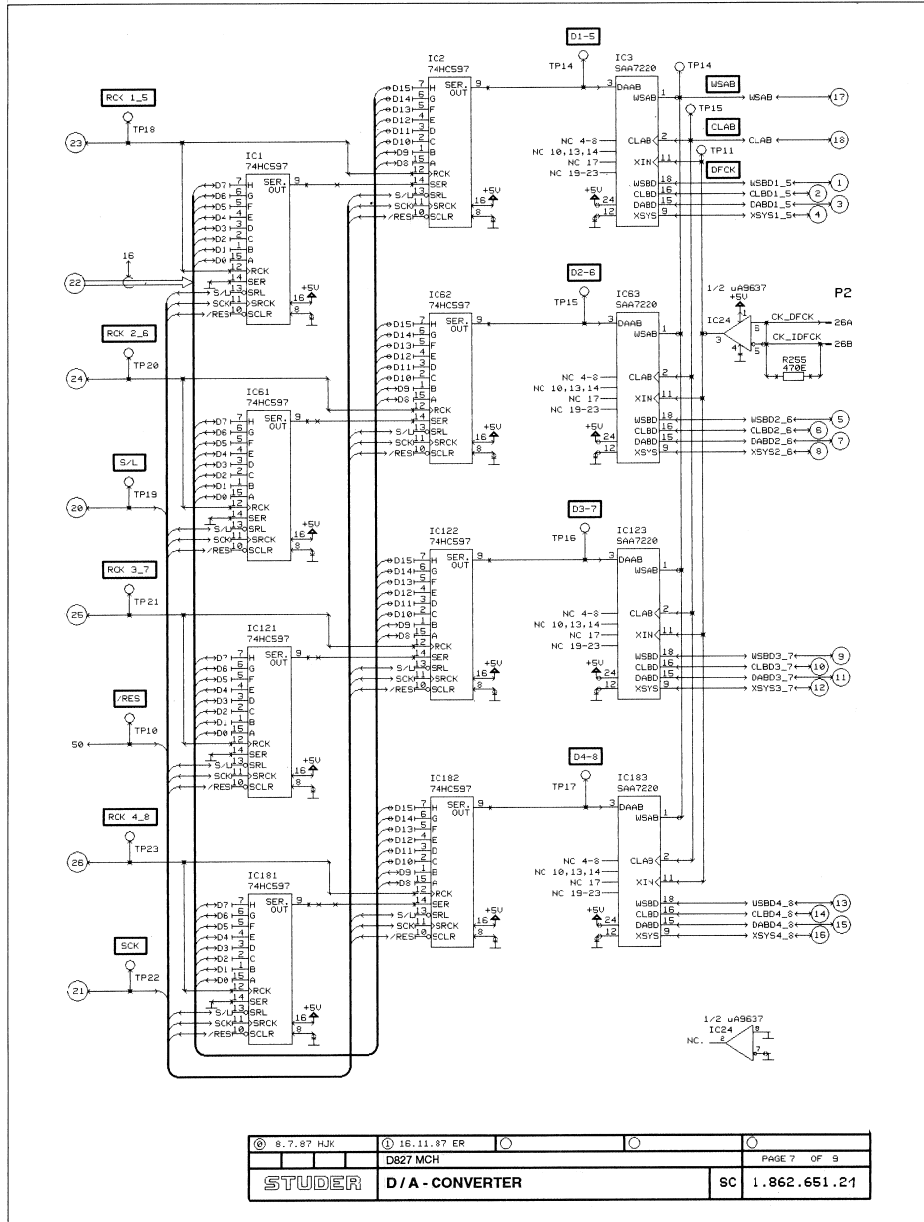
D / A - CONVERTER 1.862.651.21 (OPTION)



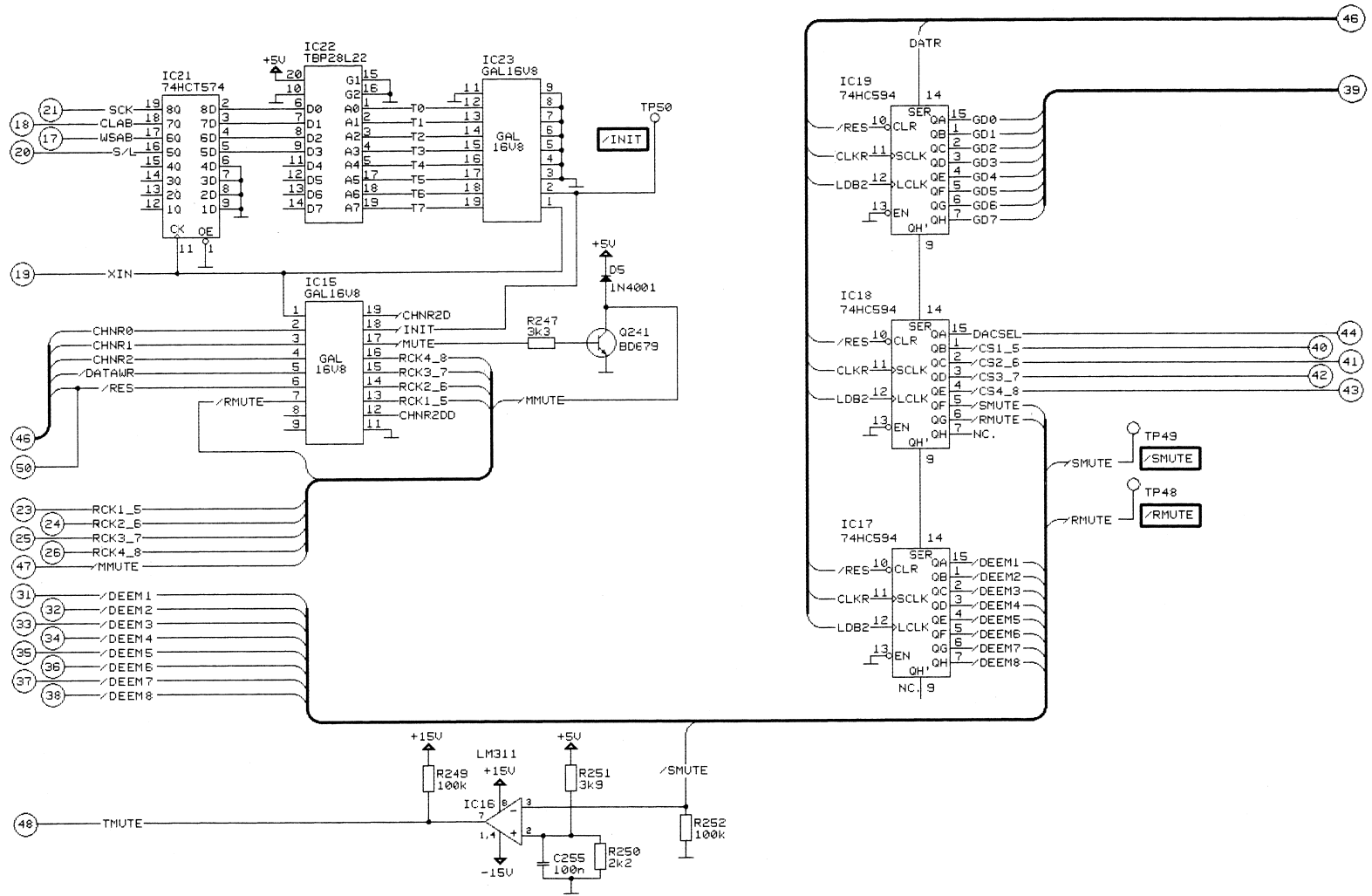
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|--------------|--------------|-------------------|---|-----------------|
| ① 8.7.87 HJK | ② 18.1.88 ER | ③ 7.2.89 ER       | ○ | ○               |
| D827 MCH     |              |                   |   | PAGE 6 OF 9     |
| STUDER       |              | D / A - CONVERTER |   | SC 1.862.651.21 |



D / A - CONVERTER 1.862.651.21 (OPTION)



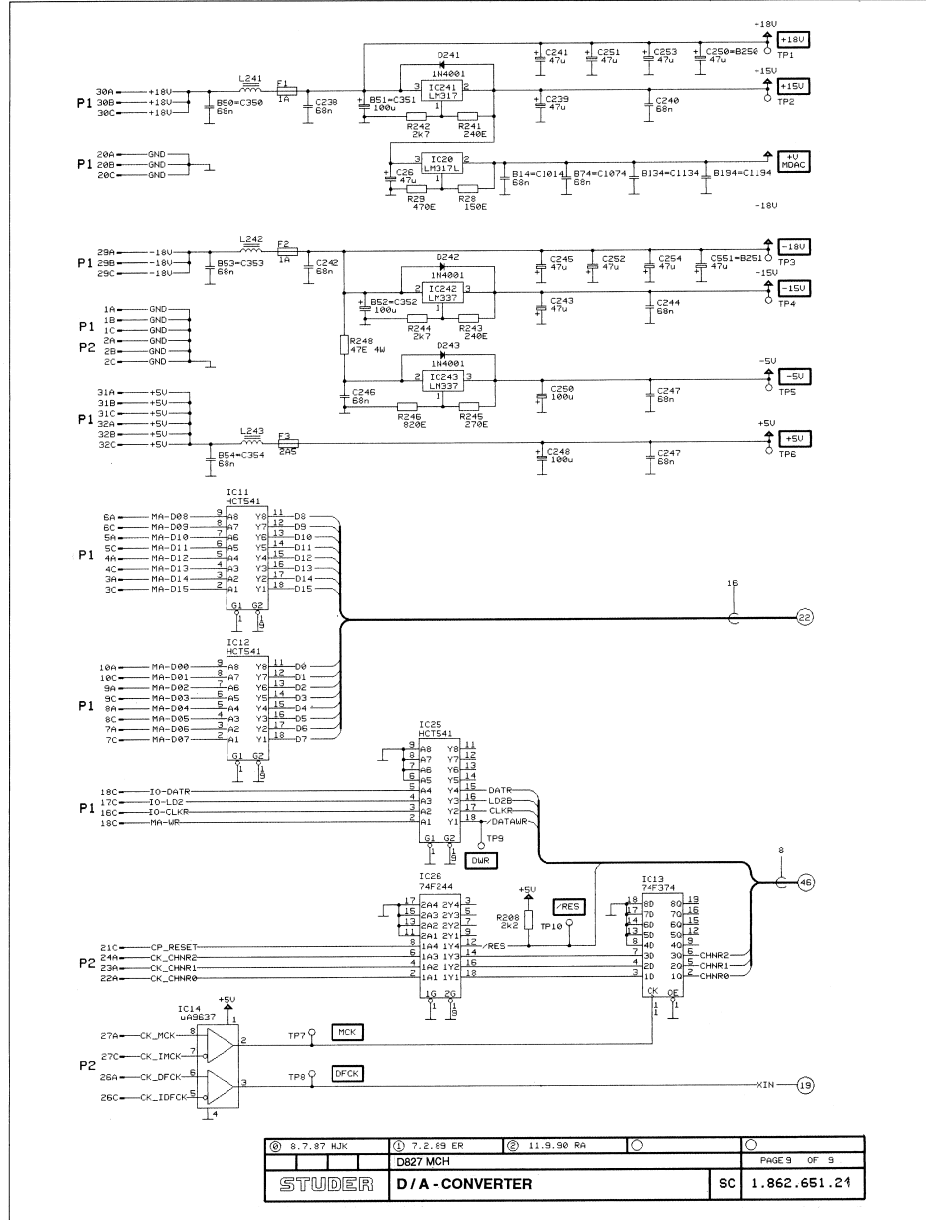
D / A - CONVERTER 1.862.651.21 (OPTION)



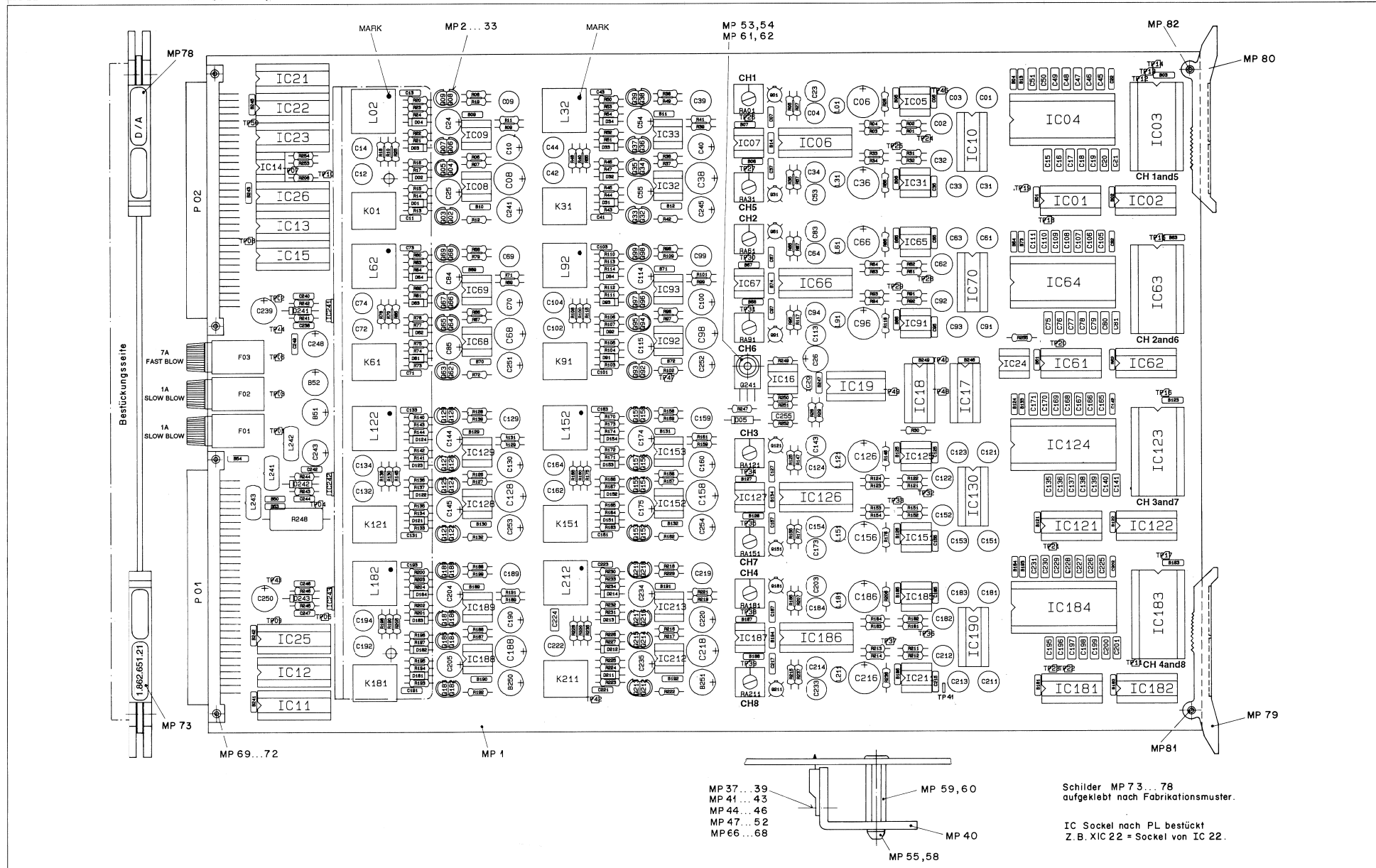
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|--------------|-------------------|----|--------------|
| © 8.7.87 HJK |                   |    |              |
|              | D827 MCH          |    | PAGE 8 OF 9  |
| STUDER       | D / A - CONVERTER | SC | 1.862.651.21 |



D / A - CONVERTER 1.862.651.21 (OPTION)



D / A - CONVERTER 1.862.651.21 (OPTION)









D / A - CONVERTER 1.862.651.21 (OPTION)

| Ad    | ..POS.. | ..REF.No.. | DESCRIPTION..... | MANUFACTURER   | Ad       | ..POS.. | ..REF.No.. | DESCRIPTION.....       | MANUFACTURER                          |     |
|-------|---------|------------|------------------|----------------|----------|---------|------------|------------------------|---------------------------------------|-----|
| C...  | 231     | 59.06.0104 | .1 u             | 10%, 40V, PETP | ANY      | D....   | 3          | 50.04.0125             | 1N 4448                               | ANY |
| C...  | 233     | 59.05.1682 | 6800 p           | 1%, 40V, PP    | ANY      | D....   | 4          | 50.04.0125             | 1N 4448                               | ANY |
| C...  | 234     | 59.22.5470 | 47 u             | -20%, 25V, EL  | ANY      | D....   | 5          | 50.04.0122             | 1N 4001                               | ANY |
| C...  | 235     | 59.22.5470 | 47 u             | -20%, 25V, EL  | ANY      |         |            |                        |                                       |     |
| C...  | 238     | 59.06.0683 | .068 u           | 10%, 63V, PETP | ANY      | D....   | 31         | 50.04.0125             | 1N 4448                               | ANY |
| C...  | 239     | 59.22.5470 | 47 u             | -20%, 25V, EL  | ANY      | D....   | 32         | 50.04.0125             | 1N 4448                               | ANY |
| C...  | 240     | 59.06.0683 | .068 u           | 10%, 63V, PETP | ANY      | D....   | 33         | 50.04.0125             | 1N 4448                               | ANY |
|       |         |            |                  |                |          | D....   | 34         | 50.04.0125             | 1N 4448                               | ANY |
| C...  | 241     | 59.22.5470 | 47 u             | -20%, 25V, EL  | ANY      |         |            |                        |                                       |     |
| C...  | 242     | 59.06.0683 | .068 u           | 10%, 63V, PETP | ANY      | D....   | 61         | 50.04.0125             | 1N 4448                               | ANY |
| C...  | 243     | 59.22.5470 | 47 u             | -20%, 25V, EL  | ANY      | D....   | 62         | 50.04.0125             | 1N 4448                               | ANY |
| C...  | 244     | 59.06.0683 | .068 u           | 10%, 63V, PETP | ANY      | D....   | 63         | 50.04.0125             | 1N 4448                               | ANY |
| C...  | 245     | 59.22.5470 | 47 u             | -20%, 25V, EL  | ANY      | D....   | 64         | 50.04.0125             | 1N 4448                               | ANY |
| C...  | 246     | 59.06.0683 | .068 u           | 10%, 63V, PETP | ANY      |         |            |                        |                                       |     |
| C...  | 247     | 59.06.0683 | .068 u           | 10%, 63V, PETP | ANY      | D....   | 91         | 50.04.0125             | 1N 4448                               | ANY |
| C...  | 248     | 59.22.3471 | 470 u            | -20%, 10V, EL  | ANY      | D....   | 92         | 50.04.0125             | 1N 4448                               | ANY |
| C...  | 249     | 59.06.0683 | .068 u           | 10%, 63V, PETP | ANY      | D....   | 93         | 50.04.0125             | 1N 4448                               | ANY |
| C...  | 250     | 59.22.5101 | 100 u            | -20%, 25V, EL  | ANY      | D....   | 94         | 50.04.0125             | 1N 4448                               | ANY |
| C...  | 251     | 59.22.5470 | 47 u             | -20%, 25V, EL  | ANY      | D...121 |            | 50.04.0125             | 1N 4448                               | ANY |
| C...  | 252     | 59.22.5470 | 47 u             | -20%, 25V, EL  | ANY      | D...122 |            | 50.04.0125             | 1N 4448                               | ANY |
| C...  | 253     | 59.22.5470 | 47 u             | -20%, 25V, EL  | ANY      | D...123 |            | 50.04.0125             | 1N 4448                               | ANY |
| C...  | 254     | 59.22.5470 | 47 u             | -20%, 25V, EL  | ANY      | D...124 |            | 50.04.0125             | 1N 4448                               | ANY |
| C...  | 255     | 59.06.0104 | .1 u             | 10%, 63V, PETP | ANY      | D...125 |            | 50.04.0125             | 1N 4448                               | ANY |
| C...  | 1001    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 1     | D...151 |            | 50.04.0125             | 1N 4448                               | ANY |
| C...  | 1002    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 2     | D...152 |            | 50.04.0125             | 1N 4448                               | ANY |
| C...  | 1003    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 3     | D...153 |            | 50.04.0125             | 1N 4448                               | ANY |
| C...  | 1004    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 4     | D...154 |            | 50.04.0125             | 1N 4448                               | ANY |
| C...  | 1005    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 5     | D...181 |            | 50.04.0125             | 1N 4448                               | ANY |
| C...  | 1006    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 6     | D...182 |            | 50.04.0125             | 1N 4448                               | ANY |
| C...  | 1007    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 7     | D...183 |            | 50.04.0125             | 1N 4448                               | ANY |
| C...  | 1008    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 8     | D...184 |            | 50.04.0125             | 1N 4448                               | ANY |
| C...  | 1009    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 9     |         |            |                        |                                       |     |
| C...  | 1010    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 10    | D...211 |            | 50.04.0125             | 1N 4448                               | ANY |
|       |         |            |                  |                |          | D...212 |            | 50.04.0125             | 1N 4448                               | ANY |
| C...  | 1011    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 11    | D...213 |            | 50.04.0125             | 1N 4448                               | ANY |
| C...  | 1012    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 12    | D...214 |            | 50.04.0125             | 1N 4448                               | ANY |
| C...  | 1013    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 13    |         |            |                        |                                       |     |
| C...  | 1014    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 14    | D...241 |            | 50.04.0122             | 1N 4001                               | ANY |
|       |         |            |                  |                |          | D...242 |            | 50.04.0122             | 1N 4001                               | ANY |
| C...  | 1050    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 50    | D...243 |            | 50.04.0122             | 1N 4001                               | ANY |
| C...  | 1051    | 59.22.5221 | 220 u            | -20%, 25V, EL  | =B 51    |         |            |                        |                                       |     |
| C...  | 1052    | 59.22.5221 | 220 u            | -20%, 25V, EL  | =B 52    | F.....  | 1          | 51.01.0117             | T1A / 250V, 5*20mm                    | ANY |
| C...  | 1053    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 53    | F.....  | 2          | 51.01.0117             | T1A / 250V, 5*20mm                    | ANY |
| C...  | 1054    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 54    | F.....  | 3          | 51.99.0133             | MINIFUSE 7A                           | ANY |
| C...  | 1061    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 61    | IC...1  |            | 50.17.1597             | 74 HC 597                             | ANY |
| C...  | 1062    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 62    | IC...2  |            | 50.17.1597             | 74 HC 597                             | ANY |
| C...  | 1063    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 63    | IC...3  |            | 50.13.0119             | SAA 7220 P/A                          | Ph  |
| C...  | 1064    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 64    | IC...4  |            | 50.19.0108             | TDA 1541 A - S1                       | Ph  |
| C...  | 1065    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 65    | IC...5  |            | 50.09.0106             | NE 5532 AN, XR 5532 AN                | ANY |
| C...  | 1066    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 66    | IC...6  |            | 50.07.0037             | AD 7528 IN                            | Ad  |
| C...  | 1067    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 67    | IC...7  |            | 50.09.0106             | NE 5532 AN, XR 5532 AN                | ANY |
| C...  | 1068    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 68    | IC...8  |            | 50.09.0106             | NE 5532 AN, XR 5532 AN                | ANY |
| C...  | 1069    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 69    | IC...9  |            | 50.09.0106             | NE 5532 AN, XR 5532 AN                | ANY |
| C...  | 1070    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 70    | IC...10 |            | 50.17.0101             | ADG 201 HSKN                          | AD  |
| C...  | 1071    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 71    | IC...11 |            | 50.17.0541             | 74 HCT 541                            | ANY |
| C...  | 1072    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 72    | IC...12 |            | 50.17.0541             | 74 HCT 541                            | ANY |
| C...  | 1073    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 73    | IC...13 |            | 50.21.0374             | 74 F 374                              | ANY |
| C...  | 1074    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 74    | IC...14 |            | 50.15.0114             | UA 9637 ACP, 9637 ATC                 | ANY |
|       |         |            |                  |                |          | IC...15 |            | 50.18.0100             | GAL 16 V 8 - 25 LP (SW 1.862.907.21)  | ANY |
| C...  | 1121    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 121   | IC...16 |            | 50.11.0114             | LM 311 N LM 311 P                     | ANY |
| C...  | 1122    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 122   | IC...17 |            | 50.17.1594             | 74 HC 594                             | ANY |
| C...  | 1123    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 123   | IC...18 |            | 50.17.1594             | 74 HC 594                             | ANY |
| C...  | 1124    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 124   | IC...19 |            | 50.17.1594             | 74 HC 594                             | ANY |
| C...  | 1125    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 125   | IC...20 |            | 50.10.0108             | LM317                                 | ANY |
| C...  | 1126    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 126   |         |            |                        |                                       |     |
| C...  | 1127    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 127   | IC...21 |            | 50.17.0574             | 74 HCT 574                            | ANY |
| C...  | 1128    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 128   | IC...22 |            | 50.14.0114             | 28L 22N, 63 S 281 N (SW 1.862.905.21) | ANY |
| C...  | 1129    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 129   | IC...23 |            | 50.18.0100             | GAL 16 V 8 - 25 LP (SW 1.862.906.20)  | ANY |
| C...  | 1130    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 130   | IC...24 |            | 50.15.0114             | UA 9637 ACP, 9637 ATC                 | ANY |
|       |         |            |                  |                |          | IC...25 |            | 50.17.0541             | 74 HCT 541                            | ANY |
|       |         |            |                  |                |          | IC...26 |            | 50.21.0244             | 74 F 244                              | ANY |
| C...  | 1131    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 131   | IC...31 |            | 50.09.0106             | NE 5532 AN, XR 5532 AN                | ANY |
| C...  | 1132    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 132   | IC...32 |            | 50.09.0106             | NE 5532 AN, XR 5532 AN                | ANY |
| C...  | 1133    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 133   | IC...33 |            | 50.09.0106             | NE 5532 AN, XR 5532 AN                | ANY |
| C...  | 1134    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 134   |         |            |                        |                                       |     |
| C...  | 1181    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 181   | ANY     |            |                        |                                       |     |
| C...  | 1182    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 182   | ANY     |            |                        |                                       |     |
| C...  | 1183    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 183   | ANY     |            |                        |                                       |     |
| C...  | 1184    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 184   | ANY     |            |                        |                                       |     |
| C...  | 1185    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 185   | ANY     |            |                        |                                       |     |
| C...  | 1186    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 186   | ANY     |            |                        |                                       |     |
| C...  | 1187    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 187   | ANY     |            |                        |                                       |     |
| C...  | 1188    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 188   | ANY     |            |                        |                                       |     |
| C...  | 1189    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 189   | ANY     |            |                        |                                       |     |
| C...  | 1190    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 190   | ANY     |            |                        |                                       |     |
| C...  | 1191    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 191   | ANY     |            |                        |                                       |     |
| C...  | 1192    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 192   | ANY     |            |                        |                                       |     |
| C...  | 1193    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 193   | ANY     |            |                        |                                       |     |
| C...  | 1194    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 194   | ANY     |            |                        |                                       |     |
| C...  | 1241    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 241   | ANY     |            |                        |                                       |     |
| C...  | 1242    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 242   | ANY     |            |                        |                                       |     |
| C...  | 1243    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 243   | ANY     |            |                        |                                       |     |
| C...  | 1245    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 245   | ANY     |            |                        |                                       |     |
| C...  | 1247    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 247   | ANY     |            |                        |                                       |     |
| C...  | 1248    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 248   | ANY     |            |                        |                                       |     |
| C...  | 1249    | 59.06.0683 | .068 u           | 10%, 63V, PETP | =B 249   | ANY     |            |                        |                                       |     |
| C...  | 1250    | 59.22.5470 | 47 u             | -20%, 25V, EL  | =B 250   | ANY     |            |                        |                                       |     |
| C...  | 1251    | 59.22.5470 | 47 u             | -20%, 25V, EL  | =B 251   | ANY     |            |                        |                                       |     |
| D.... | 1       | 50.04.0125 | 1N 4448          | ANY            | IC...151 |         | 50.09.0106 | NE 5532 AN, XR 5532 AN | ANY                                   |     |
| D.... | 2       | 50.04.0125 | 1N 4448          | ANY            | IC...152 |         | 50.09.0106 | NE 5532 AN, XR 5532 AN | ANY                                   |     |



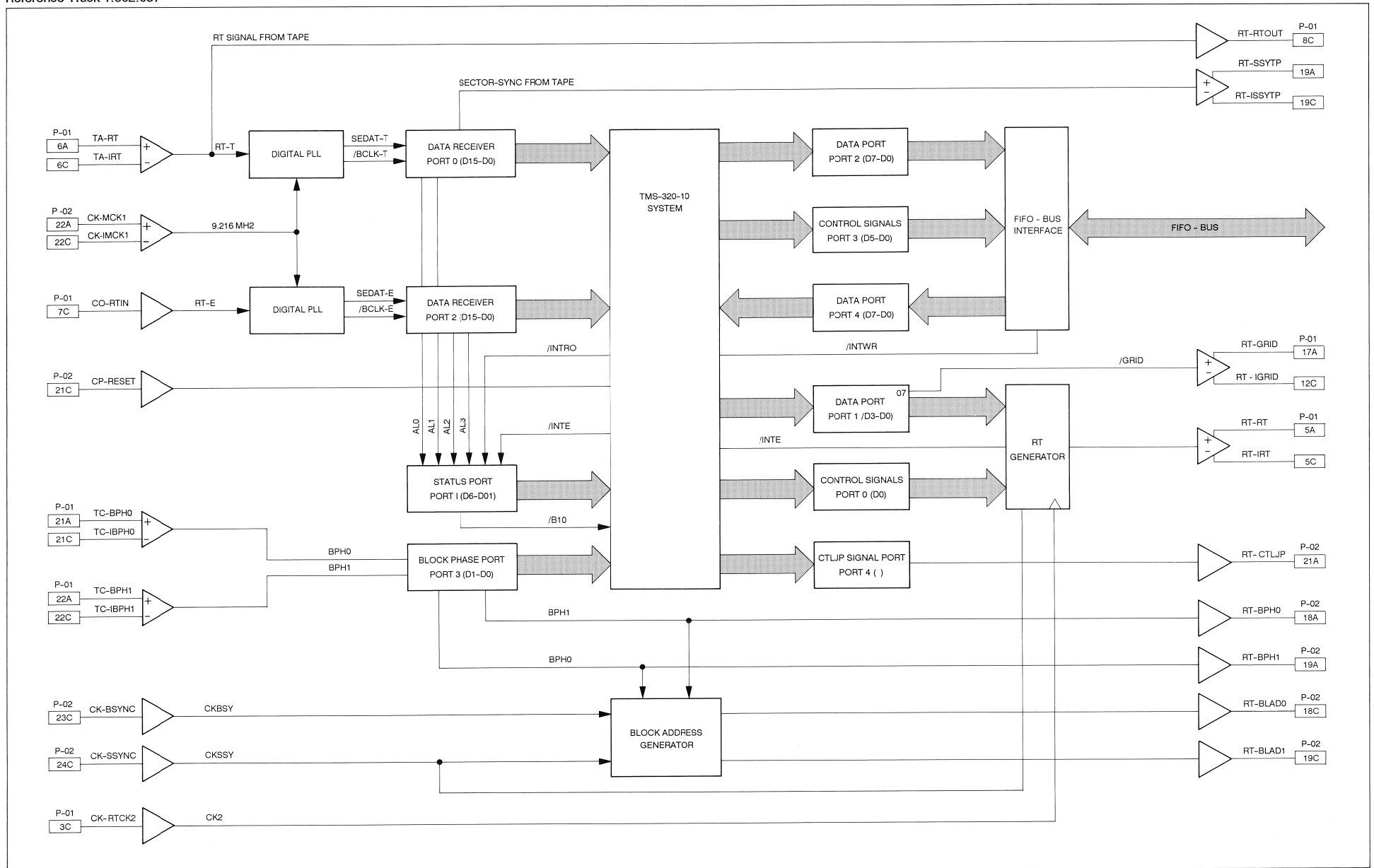




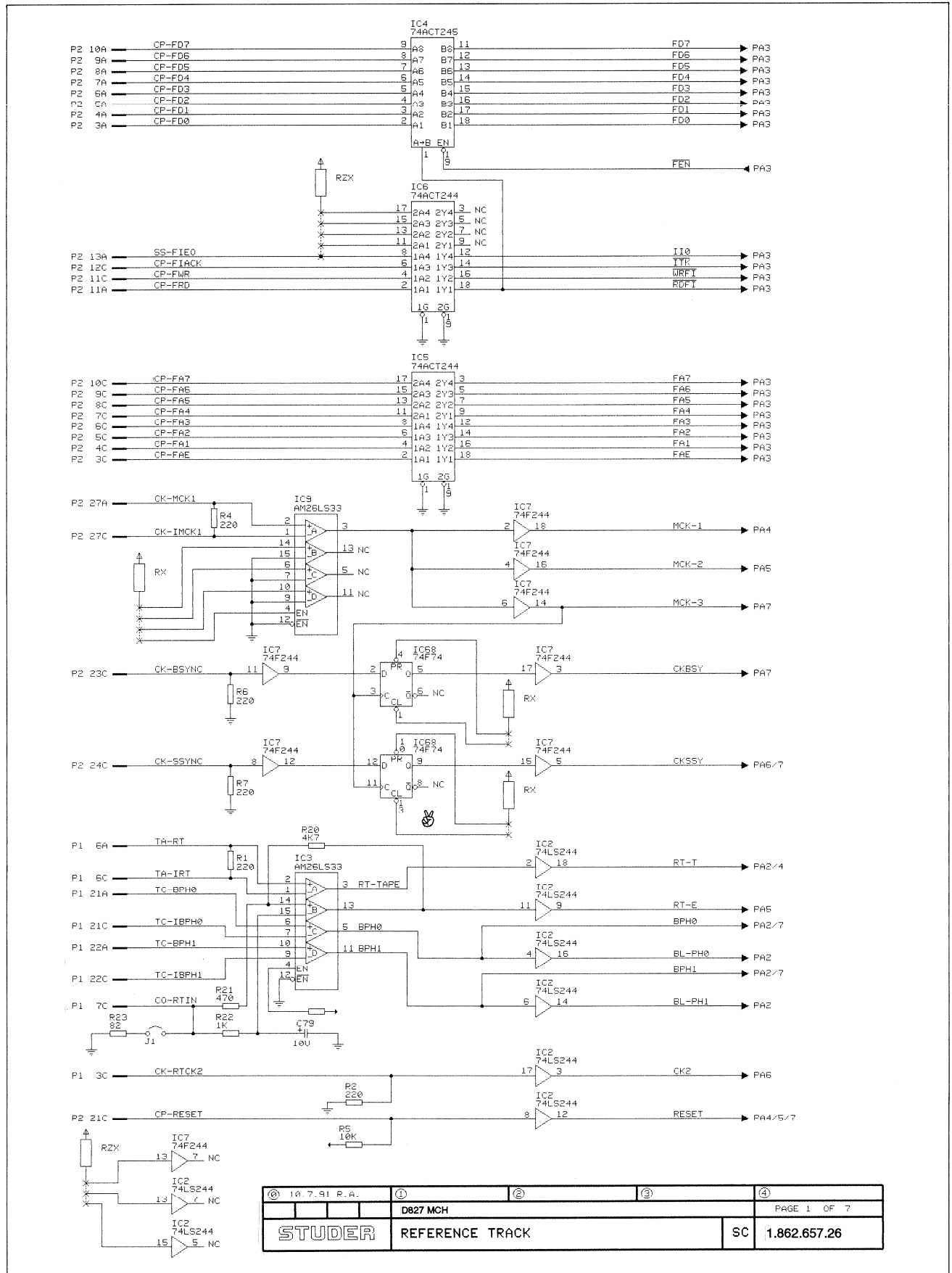
D / A - CONVERTER 1.862.651.21 (OPTION)

| Ad      | POS | REF.No     | DESCRIPTION | MANUFACTURER | Ad  | POS  | REF.No     | DESCRIPTION | MANUFACTURER |
|---------|-----|------------|-------------|--------------|-----|--|------------|-------------|--------------|
| R..187  |     | 57.11.3472 | 4.7 k       | 1%, 0207, MF | ANY | TP...21  | 54.02.0320 | TESTPOINT   | ANY          |
| R..188  |     | 57.11.3472 | 4.7 k       | 1%, 0207, MF | ANY | TP...22  | 54.02.0320 | TESTPOINT   | ANY          |
| R..189  |     | 57.11.3472 | 4.7 k       | 1%, 0207, MF | ANY | TP...23  | 54.02.0320 | TESTPOINT   | ANY          |
| R..190  |     | 57.11.3131 | 130 E       | 1%, 0207, MF | ANY | TP...24  | 54.02.0320 | TESTPOINT   | ANY          |
| R..191  |     | 57.11.3121 | 120 E       | 1%, 0207, MF | ANY | TP...25  | 54.02.0320 | TESTPOINT   | ANY          |
| R..192  |     | 57.11.3103 | 10 k        | 1%, 0207, MF | ANY | TP...26  | 54.02.0320 | TESTPOINT   | ANY          |
| R..193  |     | 57.11.3103 | 10 k        | 1%, 0207, MF | ANY | TP...27  | 54.02.0320 | TESTPOINT   | ANY          |
| R..194  |     | 57.11.3103 | 10 k        | 1%, 0207, MF | ANY | TP...28  | 54.02.0320 | TESTPOINT   | ANY          |
| R..195  |     | 57.11.3100 | 10 E        | 1%, 0207, MF | ANY | TP...29  | 54.02.0320 | TESTPOINT   | ANY          |
| R..196  |     | 57.11.3100 | 10 E        | 1%, 0207, MF | ANY | TP...30  | 54.02.0320 | TESTPOINT   | ANY          |
| R..197  |     | 57.11.3103 | 10 k        | 1%, 0207, MF | ANY | TP...31  | 54.02.0320 | TESTPOINT   | ANY          |
| R..198  |     | 57.11.3120 | 12 E        | 1%, 0207, MF | ANY | TP...32  | 54.02.0320 | TESTPOINT   | ANY          |
| R..199  |     | 57.11.3103 | 10 k        | 1%, 0207, MF | ANY | TP...33  | 54.02.0320 | TESTPOINT   | ANY          |
| R..200  |     | 57.11.3103 | 10 k        | 1%, 0207, MF | ANY | TP...34  | 54.02.0320 | TESTPOINT   | ANY          |
| R..201  |     | 57.11.3103 | 10 k        | 1%, 0207, MF | ANY | TP...35  | 54.02.0320 | TESTPOINT   | ANY          |
| R..202  |     | 57.11.3100 | 10 E        | 1%, 0207, MF | ANY | TP...36  | 54.02.0320 | TESTPOINT   | ANY          |
| R..203  |     | 57.11.3100 | 10 E        | 1%, 0207, MF | ANY | TP...37  | 54.02.0320 | TESTPOINT   | ANY          |
| R..204  |     | 57.11.3103 | 10 k        | 1%, 0207, MF | ANY | TP...38  | 54.02.0320 | TESTPOINT   | ANY          |
| R..205  |     | 57.11.3120 | 12 E        | 1%, 0207, MF | ANY | TP...39  | 54.02.0320 | TESTPOINT   | ANY          |
| R..206  |     | 57.11.5106 | 10 M        | 5%, 0207, MF | ANY | TP...40  | 54.02.0320 | TESTPOINT   | ANY          |
| R..207  |     | 57.11.5225 | 2.2 M       | 5%, 0207, MF | ANY | TP...41  | 54.02.0320 | TESTPOINT   | ANY          |
| R..208  |     | 57.11.3222 | 2.2 k       | 1%, 0207, MF | ANY | TP...42  | 54.02.0320 | TESTPOINT   | ANY          |
| R..211  |     | 57.11.3911 | 910 E       | 1%, 0207, MF | ANY | TP...43  | 54.02.0320 | TESTPOINT   | ANY          |
| R..212  |     | 57.11.3182 | 1.8 k       | 1%, 0207, MF | ANY | TP...44  | 54.02.0320 | TESTPOINT   | ANY          |
| R..213  |     | 57.11.3242 | 2.4 k       | 1%, 0207, MF | ANY | TP...46  | 54.02.0320 | TESTPOINT   | ANY          |
| R..214  |     | 57.11.3242 | 2.4 k       | 1%, 0207, MF | ANY | TP...47  | 54.02.0320 | TESTPOINT   | ANY          |
| R..215  |     | 57.11.3222 | 2.2 k       | 1%, 0207, MF | ANY | TP...48  | 54.02.0320 | TESTPOINT   | ANY          |
| R..216  |     | 57.11.3472 | 4.7 k       | 1%, 0207, MF | ANY | TP...49  | 54.02.0320 | TESTPOINT   | ANY          |
| R..217  |     | 57.11.3472 | 4.7 k       | 1%, 0207, MF | ANY | TP...50  | 54.02.0320 | TESTPOINT   | ANY          |
| R..218  |     | 57.11.3472 | 4.7 k       | 1%, 0207, MF | ANY | XF...1   | 53.03.0118 | CLAMP       | ANY          |
| R..219  |     | 57.11.3472 | 4.7 k       | 1%, 0207, MF | ANY | XF...2   | 53.03.0118 | CLAMP       | ANY          |
| R..220  |     | 57.11.3131 | 130 E       | 1%, 0207, MF | ANY | XIC...3  | 53.03.0169 | DIL 24-PIN  | ANY          |
| R..221  |     | 57.11.3121 | 120 E       | 1%, 0207, MF | ANY | XIC...4  | 53.03.0173 | DIL 28-PIN  | ANY          |
| R..222  |     | 57.11.3103 | 10 k        | 1%, 0207, MF | ANY | XIC...6  | 53.03.0165 | DIL 20-PIN  | ANY          |
| R..223  |     | 57.11.3103 | 10 k        | 1%, 0207, MF | ANY | XIC...10   | 53.03.0168 | DIL 16-PIN  | ANY          |
| R..224  |     | 57.11.3103 | 10 k        | 1%, 0207, MF | ANY | XIC...11   | 53.03.0165 | DIL 20-PIN  | ANY          |
| R..225  |     | 57.11.3100 | 10 E        | 1%, 0207, MF | ANY | XIC...12   | 53.03.0165 | DIL 20-PIN  | ANY          |
| R..226  |     | 57.11.3100 | 10 E        | 1%, 0207, MF | ANY | XIC...14   | 53.03.0166 | DIL 8-PIN   | ANY          |
| R..227  |     | 57.11.3103 | 10 k        | 1%, 0207, MF | ANY | XIC...15   | 53.03.0165 | DIL 20-PIN  | ANY          |
| R..228  |     | 57.11.3120 | 12 E        | 1%, 0207, MF | ANY | XIC...16   | 53.03.0166 | DIL 8-PIN   | ANY          |
| R..229  |     | 57.11.3103 | 10 k        | 1%, 0207, MF | ANY | XIC...22   | 53.03.0165 | DIL 20-PIN  | ANY          |
| R..230  |     | 57.11.3103 | 10 k        | 1%, 0207, MF | ANY | XIC...23   | 53.03.0165 | DIL 20-PIN  | ANY          |
| R..231  |     | 57.11.3103 | 10 k        | 1%, 0207, MF | ANY | XIC...24   | 53.03.0166 | DIL 8-PIN   | ANY          |
| R..232  |     | 57.11.3100 | 10 E        | 1%, 0207, MF | ANY | XIC...25   | 53.03.0165 | DIL 20-PIN  | ANY          |
| R..233  |     | 57.11.3100 | 10 E        | 1%, 0207, MF | ANY | XIC...63   | 53.03.0169 | DIL 24-PIN  | ANY          |
| R..234  |     | 57.11.3103 | 10 k        | 1%, 0207, MF | ANY | XIC...64   | 53.03.0173 | DIL 28-PIN  | ANY          |
| R..235  |     | 57.11.3120 | 12 E        | 1%, 0207, MF | ANY | XIC...66   | 53.03.0165 | DIL 20-PIN  | ANY          |
| R..236  |     | 57.11.5106 | 10 M        | 5%, 0207, MF | ANY | XIC...70   | 53.03.0168 | DIL 16-PIN  | ANY          |
| R..237  |     | 57.11.5225 | 2.2 M       | 5%, 0207, MF | ANY | XIC.123  | 53.03.0169 | DIL 24-PIN  | ANY          |
| R..241  |     | 57.11.3241 | 240 E       | 1%, 0207, MF | ANY | XIC.124  | 53.03.0173 | DIL 28-PIN  | ANY          |
| R..242  |     | 57.11.3272 | 2.7 k       | 1%, 0207, MF | ANY | XIC.126  | 53.03.0165 | DIL 20-PIN  | ANY          |
| R..243  |     | 57.11.3241 | 240 E       | 1%, 0207, MF | ANY | XIC.130  | 53.03.0168 | DIL 16-PIN  | ANY          |
| R..244  |     | 57.11.3272 | 2.7 k       | 1%, 0207, MF | ANY | XIC.183  | 53.03.0169 | DIL 24-PIN  | ANY          |
| R..245  |     | 57.11.3271 | 270 E       | 1%, 0207, MF | ANY | XIC.184  | 53.03.0173 | DIL 28-PIN  | ANY          |
| R..246  |     | 57.11.3821 | 820 E       | 1%, 0207, MF | ANY | XIC.186  | 53.03.0165 | DIL 20-PIN  | ANY          |
| R..247  |     | 57.11.3822 | 8.2 k       | 1%, 0207, MF | ANY | XIC.190  | 53.03.0168 | DIL 16-PIN  | ANY          |
| R..248  |     | 57.56.5470 | 47 E        | 10%, 4 W     | ANY | REMARKS:   |            |             |              |
| R..249  |     | 57.11.3104 | 100 k       | 1%, 0207, MF | ANY | Aenderungen:   |            |             |              |
| R..250  |     | 57.11.3222 | 2.2 k       | 1%, 0207, MF | ANY | 00: IC 22 AENDERT AUF 1.862.905.21                                     |            |             |              |
| R..251  |     | 57.11.3392 | 3.9 k       | 1%, 0207, MF | ANY | MANUFACTURERS:   |            |             |              |
| R..252  |     | 57.11.3104 | 100 k       | 1%, 0207, MF | ANY | St = STUDER, Ph = PHILIPS, An = ANALOGIK, Ha = HARRIS, Bd = BURR BROWN |            |             |              |
| R..255  |     | 57.11.3471 | 470 E       | 1%, 0207, MF | ANY | Ad = ANALOG DEVICES  |            |             |              |
| RA...1  |     | 58.01.8103 | 10 k        | 10%, .5 W    | ANY | ABBREVIATIONS:   |            |             |              |
| RA...31 |     | 58.01.8103 | 10 k        | 10%, .5 W    | ANY | CER = CERAMIC / FILM = FILM TYPE / XF = CLAMP FOR FUSES /              |            |             |              |
| RA...61 |     | 58.01.8103 | 10 k        | 10%, .5 W    | ANY | XIC = IC SOCKET  |            |             |              |
| RA...91 |     | 58.01.8103 | 10 k        | 10%, .5 W    | ANY |  |            |             |              |
| RA..121 |     | 58.01.8103 | 10 k        | 10%, .5 W    | ANY |  |            |             |              |
| RA..151 |     | 58.01.8103 | 10 k        | 10%, .5 W    | ANY |  |            |             |              |
| RA..181 |     | 58.01.8103 | 10 k        | 10%, .5 W    | ANY |  |            |             |              |
| RA..211 |     | 58.01.8103 | 10 k        | 10%, .5 W    | ANY |  |            |             |              |
| TP...1  |     | 54.02.0320 |             |              | ANY |  |            |             |              |
| TP...2  |     | 54.02.0320 |             |              | ANY |  |            |             |              |
| TP...3  |     | 54.02.0320 |             |              | ANY |  |            |             |              |
| TP...4  |     | 54.02.0320 |             |              | ANY |  |            |             |              |
| TP...5  |     | 54.02.0320 |             |              | ANY |  |            |             |              |
| TP...6  |     | 54.02.0320 |             |              | ANY |  |            |             |              |
| TP...7  |     | 54.02.0320 |             |              | ANY |  |            |             |              |
| TP...8  |     | 54.02.0320 |             |              | ANY |  |            |             |              |
| TP...9  |     | 54.02.0320 |             |              | ANY |  |            |             |              |
| TP...10 |     | 54.02.0320 |             |              | ANY |  |            |             |              |
| TP...11 |     | 54.02.0320 |             |              | ANY |  |            |             |              |
| TP...12 |     | 54.02.0320 |             |              | ANY |  |            |             |              |
| TP...13 |     | 54.02.0320 |             |              | ANY |  |            |             |              |
| TP...14 |     | 54.02.0320 |             |              | ANY |  |            |             |              |
| TP...15 |     | 54.02.0320 |             |              | ANY |  |            |             |              |
| TP...16 |     | 54.02.0320 |             |              | ANY |  |            |             |              |
| TP...17 |     | 54.02.0320 |             |              | ANY |  |            |             |              |
| TP...18 |     | 54.02.0320 |             |              | ANY |  |            |             |              |
| TP...19 |     | 54.02.0320 |             |              | ANY |  |            |             |              |
| TP...20 |     | 54.02.0320 |             |              | ANY |  |            |             |              |

**BLOCK DIAGRAM**  
Reference Track 1.862.657



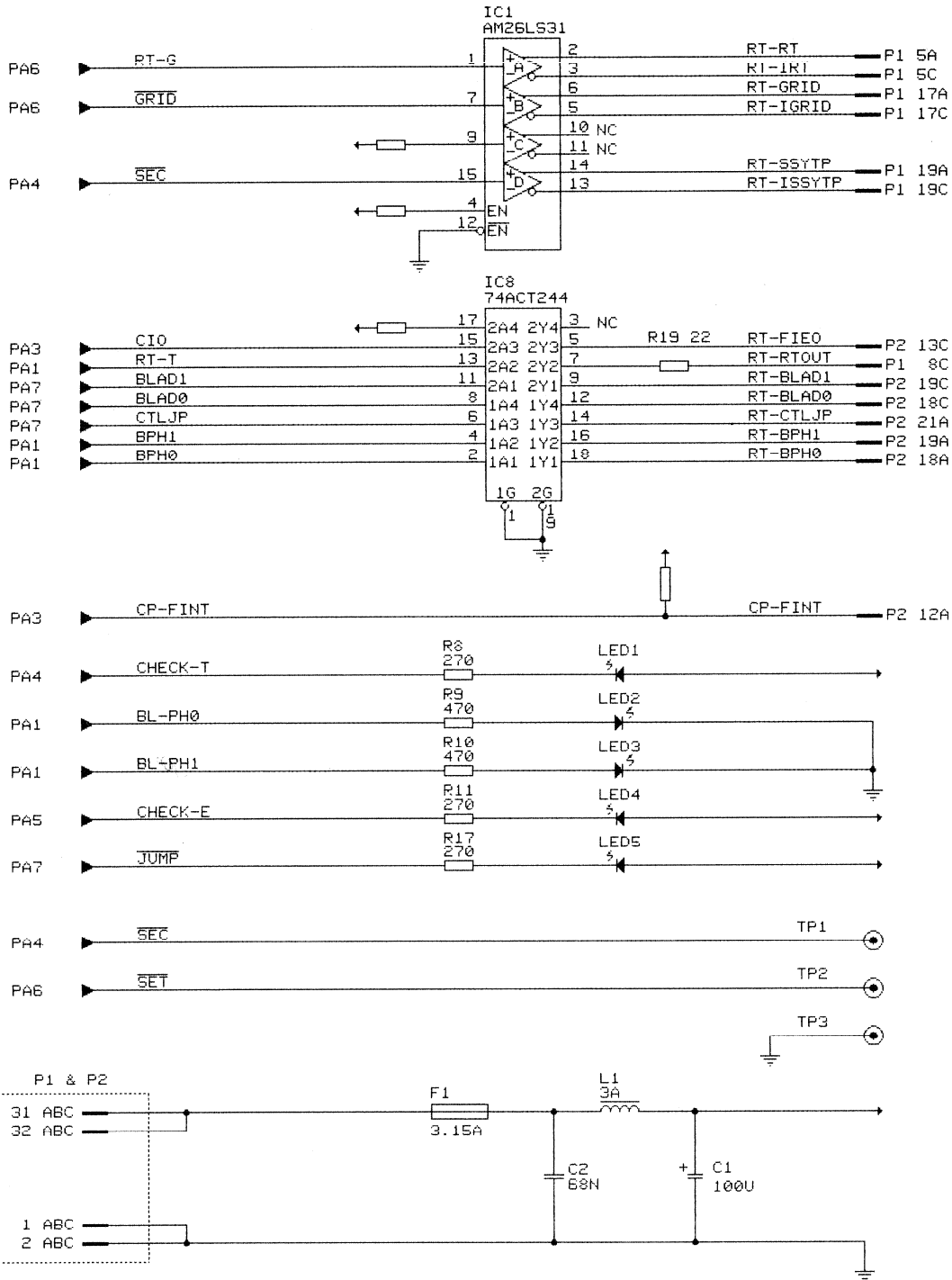
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| ①               | 10.7.91 P.A. | ②        | ③ | ④            |
| STUDER          |              | D827 MCH |   | PAGE 1 OF 7  |
| REFERENCE TRACK |              | SC       |   | 1.862.657.26 |



REFERENCE TRACK 1.862.657.26

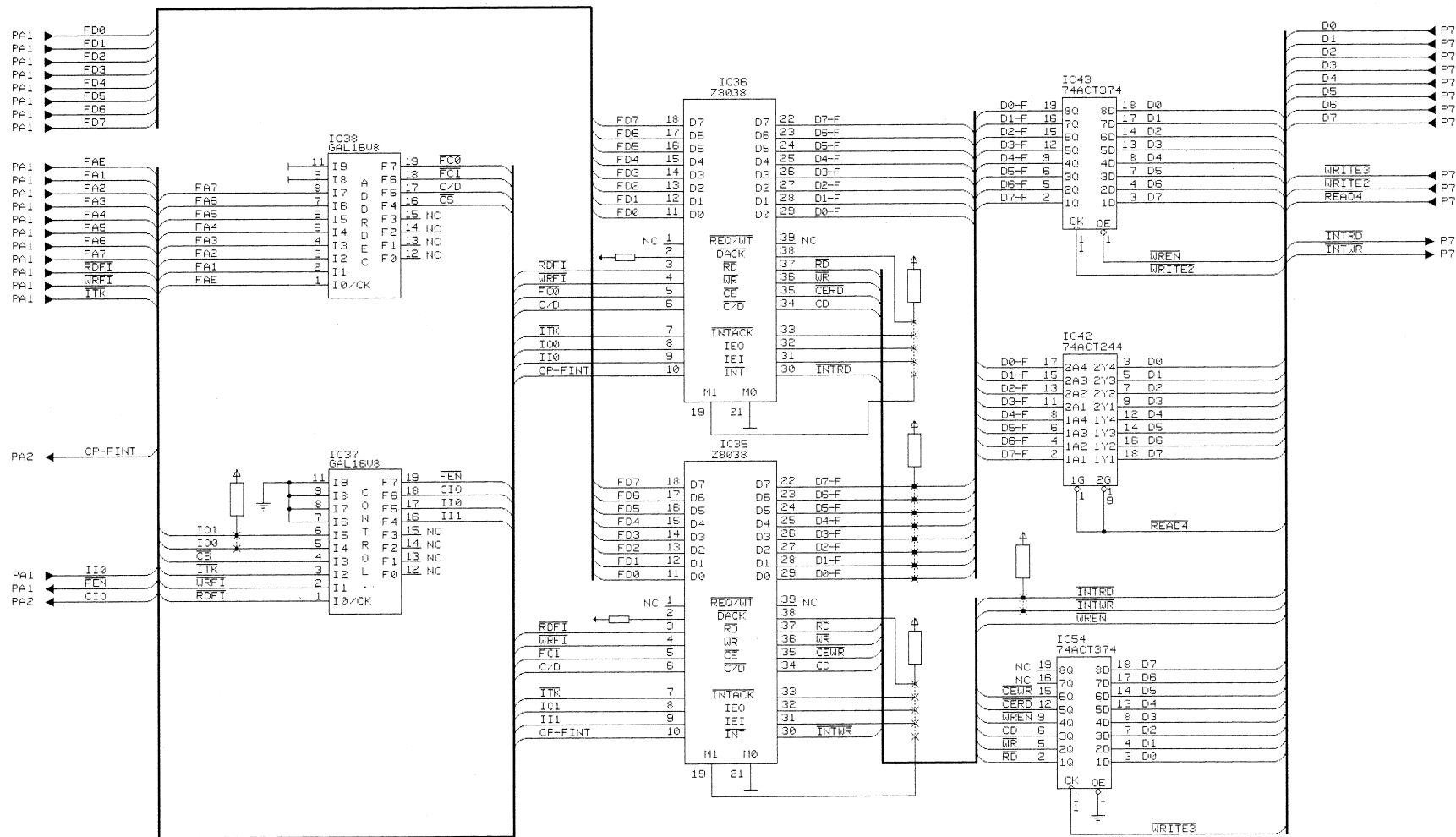


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|----------------|-----------------|----|--------------|-------------|
| ⑩ 10.7.91 R.A. | ①               | ②  | ③            | ④           |
|                | D827 MCH        |    |              | PAGE 2 OF 7 |
| <b>STUDER</b>  | REFERENCE TRACK | SC | 1.862.657.26 |             |



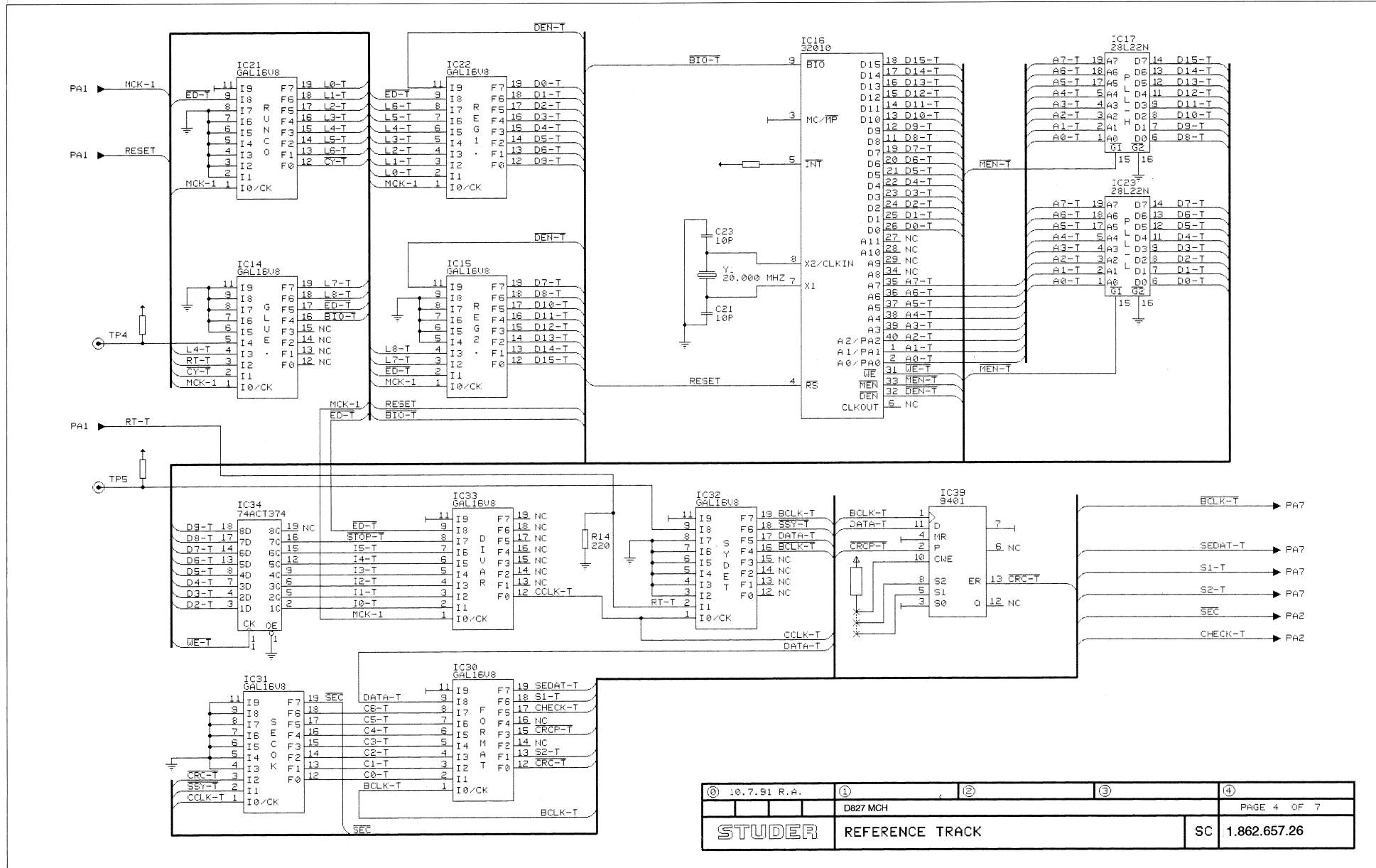


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|                |   |                 |                 |
|----------------|---|-----------------|-----------------|
| ① 10.7.91 R.A. | ② | ③               | ④               |
| D827 MCH       |   |                 | PAGE 3 OF 7     |
| STUDER         |   | REFERENCE TRACK | SC 1.862.657.26 |

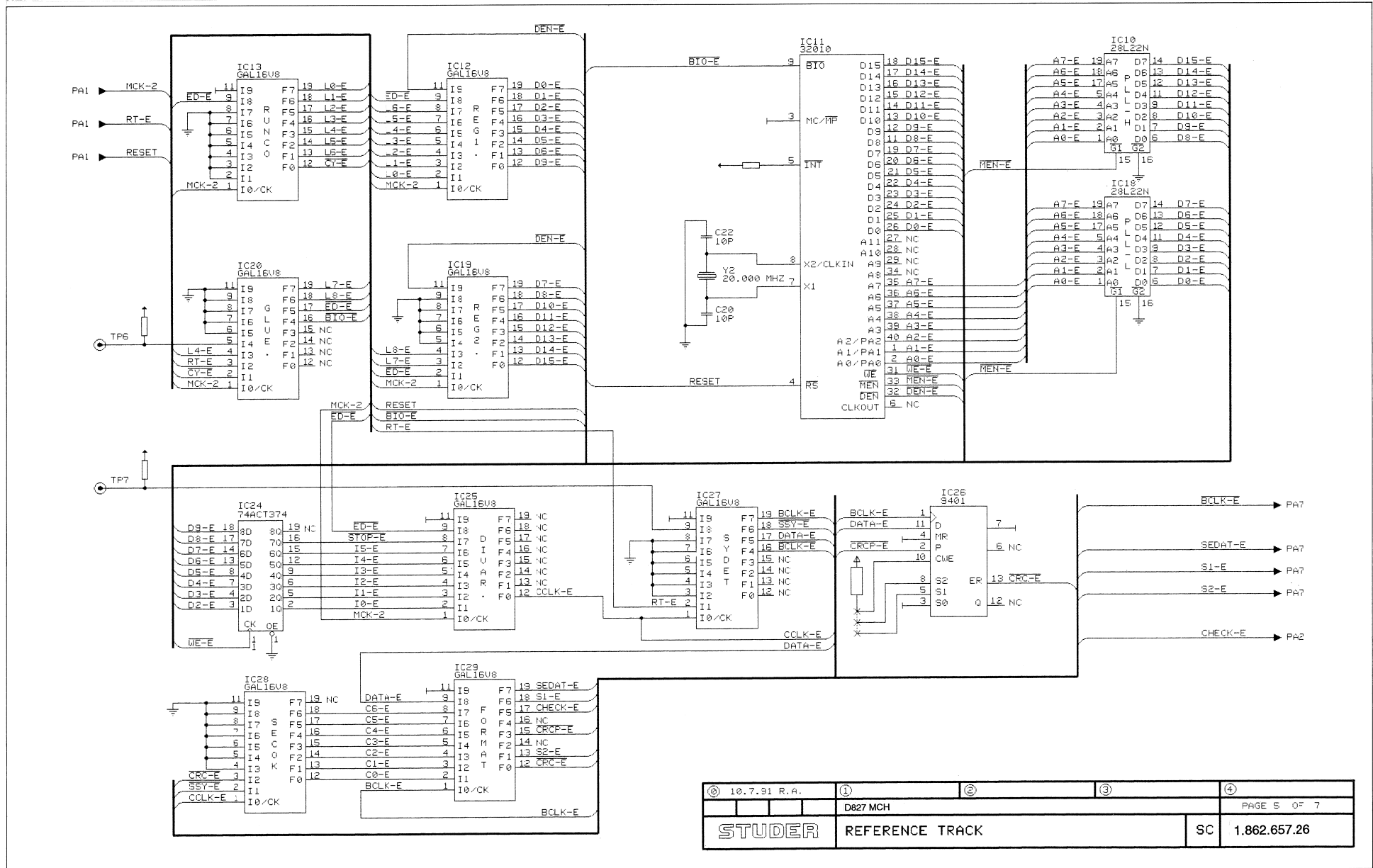
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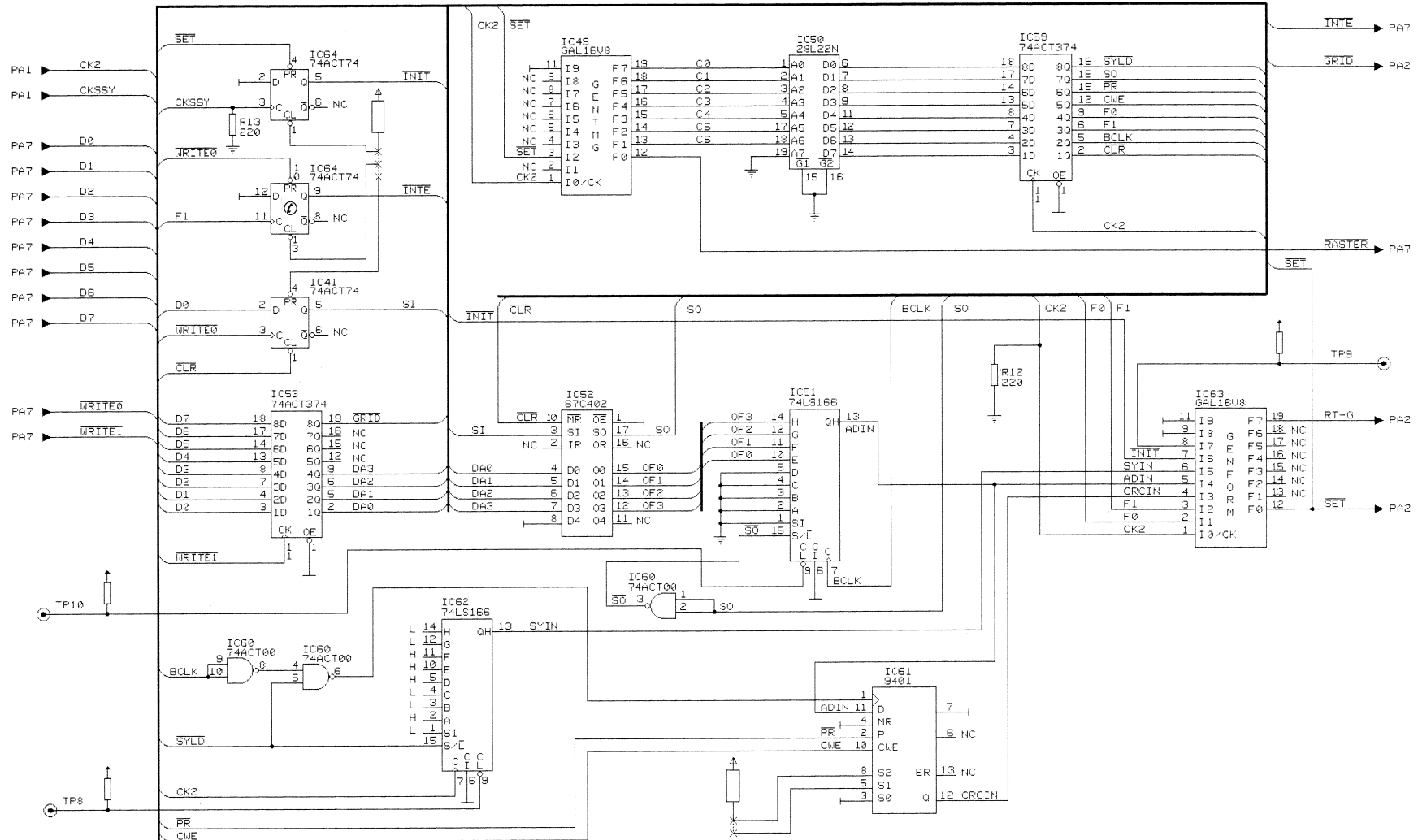
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| ① 10.7.91 R.A. | ②               | ③  | ④            |
| D827 MCH       |                 |    | PAGE 4 OF 7  |
| STUDER         | REFERENCE TRACK | SC | 1.862.657.26 |



REFERENCE TRACK 1.862.657.26



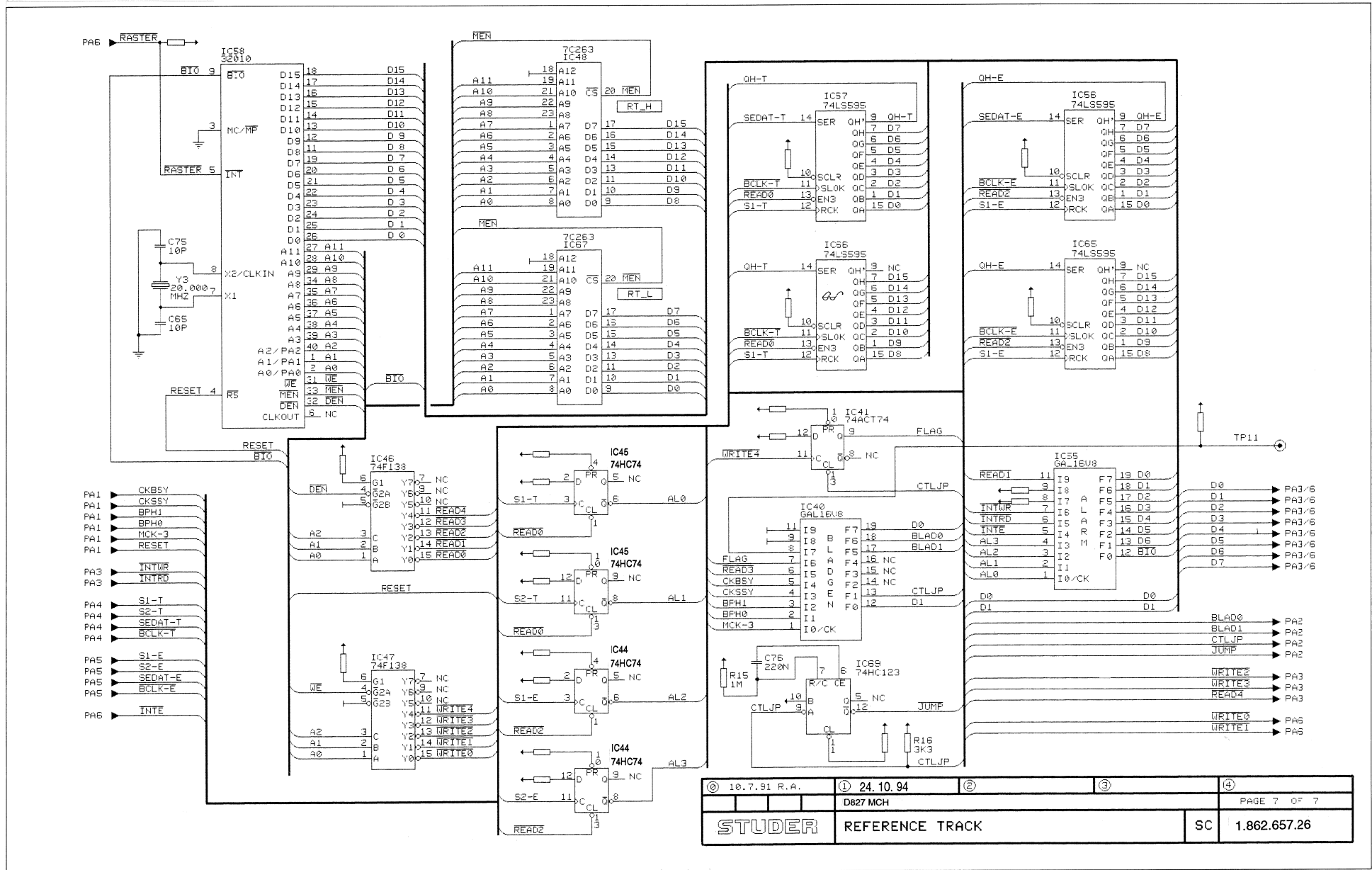
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| ① 10.7.91 R.A.         | ②        | ③  | ④            |
|                        | D827 MCH |    | PAGE 5 OF 7  |
| STUDER REFERENCE TRACK |          | SC | 1.862.657.26 |



|                |                 |             |              |
|----------------|-----------------|-------------|--------------|
| ① 19.7.91 R.A. | ②               | ③           | ④            |
| D827 MCH       |                 | PAGE 6 OF 7 |              |
| STUDER         | REFERENCE TRACK | SC          | 1.862.657.26 |

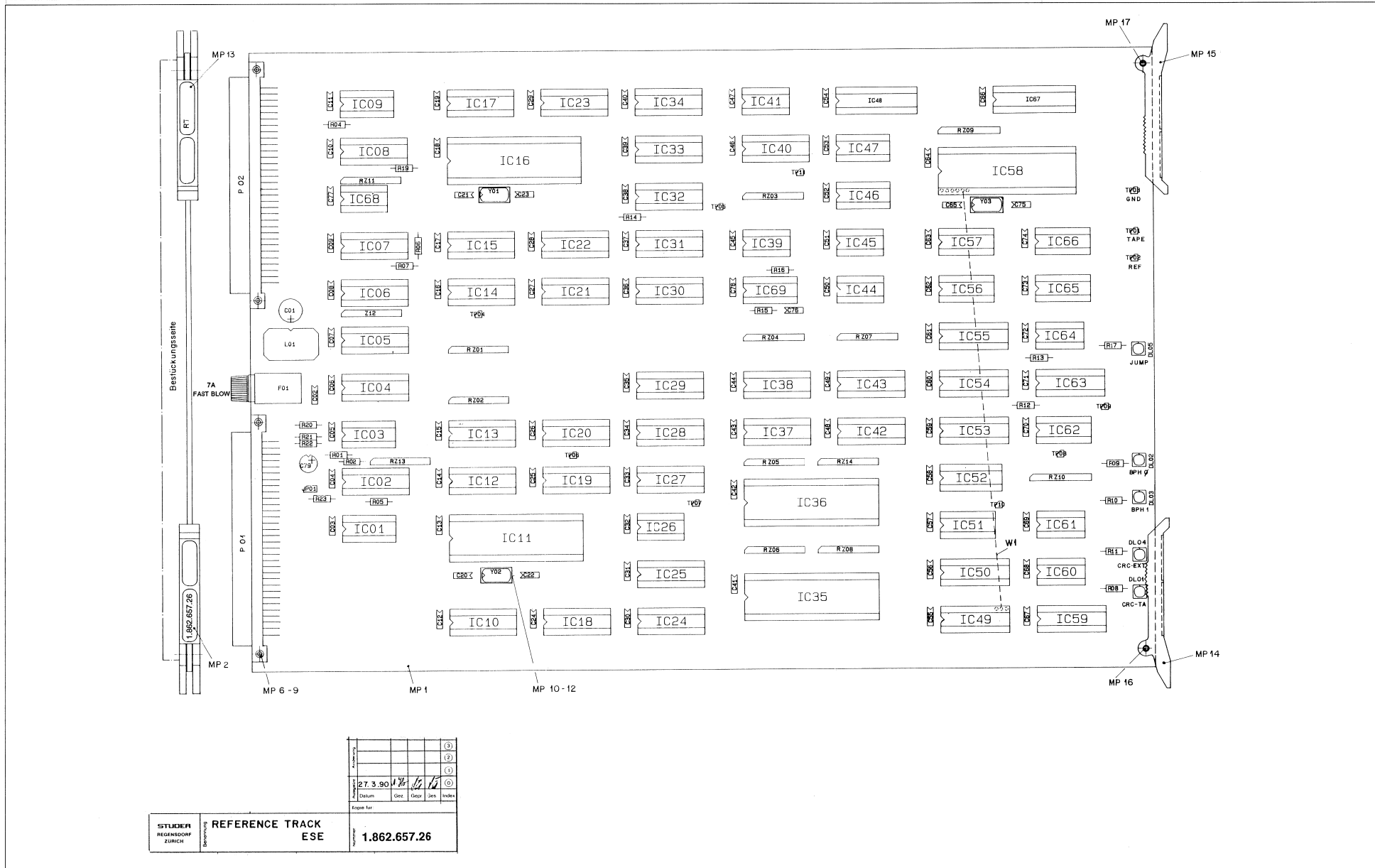


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|                 |            |   |                 |
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| ① 10.7.91 R.A.  | ② 24.10.94 | ③ | ④               |
| D827 MCH        |            |   |                 |
| <b>STUDER</b>   |            |   | PAGE 7 OF 7     |
| REFERENCE TRACK |            |   | SC 1.862.657.26 |

REFERENCE TRACK 1.862.657.26



STUDER  
REGENERATION  
ZÜRICH

REFERENCE TRACK  
ESE

|           |              |
|-----------|--------------|
| Produkt   | 1.862.657.26 |
| Datum     | 27.3.90      |
| Gez.      |              |
| Gepr.     |              |
| Stk.      |              |
| Index     |              |
| Frage für |              |

1.862.657.26





REFERENCE TRACK 1.862.657.26

| Ad       | ..POS..      | ...REF.No... | DESCRIPTION.....                  | MANUFACTURER |
|----------|--------------|--------------|-----------------------------------|--------------|
| R....17  | 57.11.3271   | 270          | 1%, 0207 , MF                     | ANY          |
| R....19  | 57.11.3220   | 22           | 1%, 0207 , MF                     | ANY          |
| R....20  | 57.11.3472   | 4.7 k        | 1%, 0207 , MF                     | ANY          |
| K....21  | 57.11.3471   | 470          | 1% 0207 , MF                      | ANY          |
| R....22  | 57.11.3102   | 1 k          | 1%, 0207 , MF                     | ANY          |
| R....23  | 57.11.3820   | 82           | 1%, 0207 , MF                     | ANY          |
| RZ....1  | 57.88.4332   |              | 8 * 3.3 k                         | ANY          |
| RZ....2  | 57.88.4332   |              | 8 * 3.3 k                         | ANY          |
| RZ....3  | 57.88.4332   |              | 8 * 3.3 k                         | ANY          |
| RZ....4  | 57.88.4332   |              | 8 * 3.3 k                         | ANY          |
| RZ....5  | 57.88.4332   |              | 8 * 3.3 k                         | ANY          |
| RZ....6  | 57.88.4332   |              | 8 * 3.3 k                         | ANY          |
| RZ....7  | 57.88.4332   |              | 8 * 3.3 k                         | ANY          |
| RZ....8  | 57.88.4332   |              | 8 * 3.3 k                         | ANY          |
| RZ....9  | 57.88.4332   |              | 8 * 3.3 k                         | ANY          |
| RZ....10 | 57.88.4332   |              | 8 * 3.3 k                         | ANY          |
| RZ....11 | 57.88.4332   |              | 8 * 3.3 k                         | ANY          |
| RZ....12 | 57.88.4332   |              | 8 * 3.3 k                         | ANY          |
| RZ....13 | 57.88.4332   |              | 8 * 3.3 k                         | ANY          |
| RZ....14 | 57.88.4332   |              | 8 * 3.3 k                         | ANY          |
| TP....1  | 54.02.0320   |              | 2.8 * 0.8 **** QTY11 ****         | ANY          |
| W.....1  | 1.010.124.64 | 240MM        | VON IC 49 PIN 12 NACH IC 58 PIN 5 | ST           |
| XF....1  | 53.03.0118   |              | FUSE HOLDER                       | ANY          |
| XIC..10  | 53.03.0165   |              | DIL 20-PIN                        | ANY          |
| XIC..11  | 53.03.0172   |              | DIL 40-PIN                        | ANY          |
| XIC..12  | 53.03.0165   |              | DIL 20-PIN                        | ANY          |
| XIC..13  | 53.03.0165   |              | DIL 20-PIN                        | ANY          |
| XIC..14  | 53.03.0165   |              | DIL 20-PIN                        | ANY          |
| XIC..15  | 53.03.0165   |              | DIL 20-PIN                        | ANY          |
| XIC..16  | 53.03.0172   |              | DIL 40-PIN                        | ANY          |
| XIC..17  | 53.03.0165   |              | DIL 20-PIN                        | ANY          |
| XIC..18  | 53.03.0165   |              | DIL 20-PIN                        | ANY          |
| XIC..19  | 53.03.0165   |              | DIL 20-PIN                        | ANY          |
| XIC..20  | 53.03.0165   |              | DIL 20-PIN                        | ANY          |
| XIC..21  | 53.03.0165   |              | DIL 20-PIN                        | ANY          |
| XIC..22  | 53.03.0165   |              | DIL 20-PIN                        | ANY          |
| XIC..23  | 53.03.0165   |              | DIL 20-PIN                        | ANY          |
| XIC..25  | 53.03.0165   |              | DIL 20-PIN                        | ANY          |
| XIC..27  | 53.03.0165   |              | DIL 20-PIN                        | ANY          |
| XIC..28  | 53.03.0165   |              | DIL 20-PIN                        | ANY          |
| XIC..29  | 53.03.0165   |              | DIL 20-PIN                        | ANY          |
| XIC..30  | 53.03.0165   |              | DIL 20-PIN                        | ANY          |
| XIC..31  | 53.03.0165   |              | DIL 20-PIN                        | ANY          |
| XIC..32  | 53.03.0165   |              | DIL 20-PIN                        | ANY          |
| XIC..33  | 53.03.0165   |              | DIL 20-PIN                        | ANY          |
| XIC..35  | 53.03.0172   |              | DIL 40-PIN                        | ANY          |
| XIC..36  | 53.03.0172   |              | DIL 40-PIN                        | ANY          |
| XIC..37  | 53.03.0165   |              | DIL 20-PIN                        | ANY          |
| XIC..38  | 53.03.0165   |              | DIL 20-PIN                        | ANY          |
| XIC..40  | 53.03.0165   |              | DIL 20-PIN                        | ANY          |
| XIC..48  | 53.03.0182   |              | DIL 24-PIN                        | ANY          |
| XIC..49  | 53.03.0165   |              | DIL 20-PIN                        | ANY          |
| XIC..50  | 53.03.0165   |              | DIL 20-PIN                        | ANY          |
| XIC..55  | 53.03.0165   |              | DIL 20-PIN                        | ANY          |
| XIC..58  | 53.03.0172   |              | DIL 40-PIN                        | ANY          |
| XIC..63  | 53.03.0165   |              | DIL 20-PIN                        | ANY          |
| XIC..67  | 53.03.0182   |              | DIL 24-PIN                        | ANY          |
| Y.....1  | 89.01.1007   |              | 20.000 MHZ, HC 49/U               | ANY          |
| Y.....2  | 89.01.1007   |              | 20.000 MHZ, HC 49/U               | ANY          |
| Y.....3  | 89.01.1007   |              | 20.000 MHZ, HC 49/U               | ANY          |

(01) 20.07.94 IC44 and 45 change from 74ACT74 to 74HC74

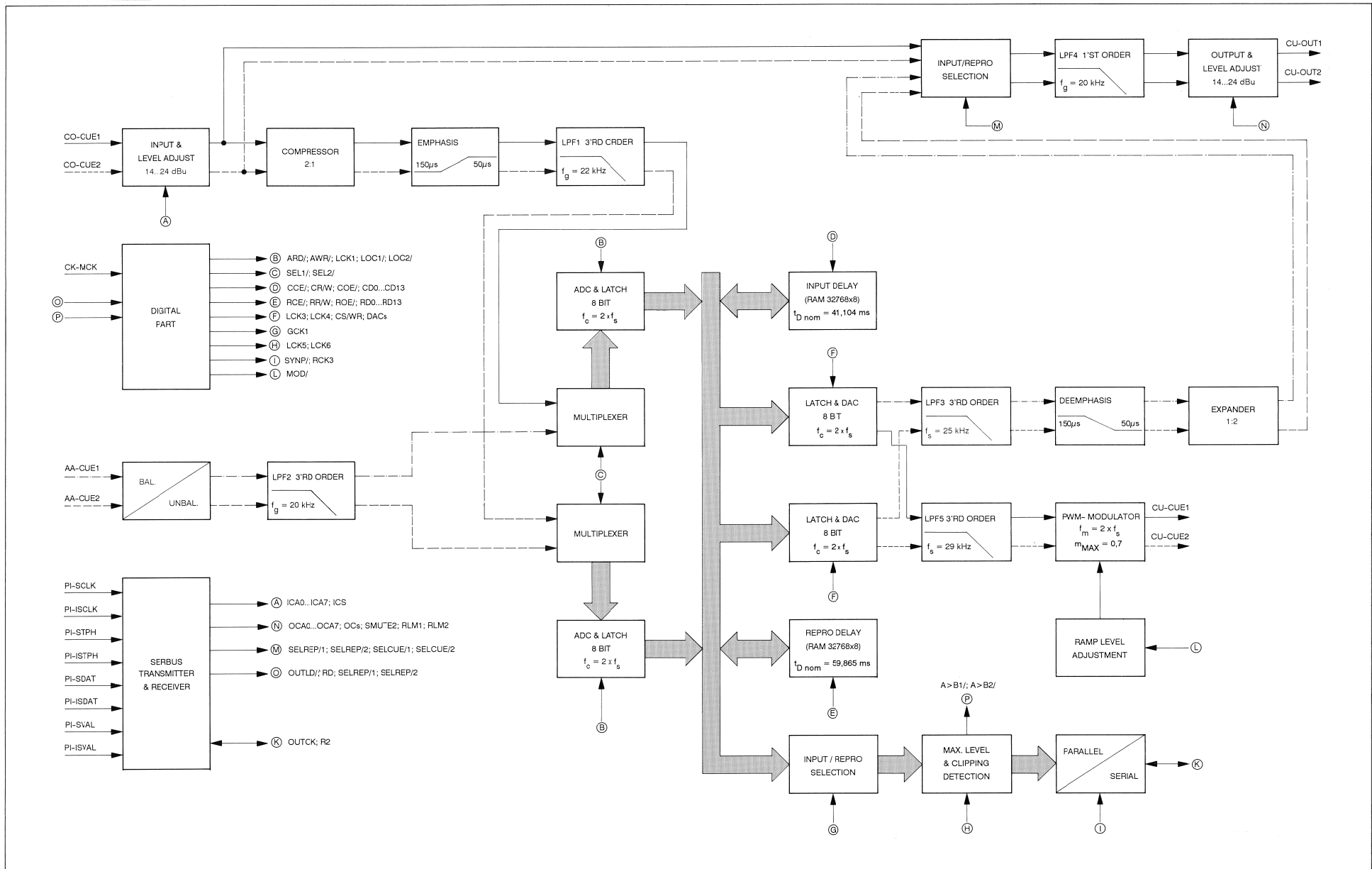
REMARKS:

MANUFACTURERS:  
ST = STUDER Ph = PHILIPS Pi = PHOTOCHEMIE

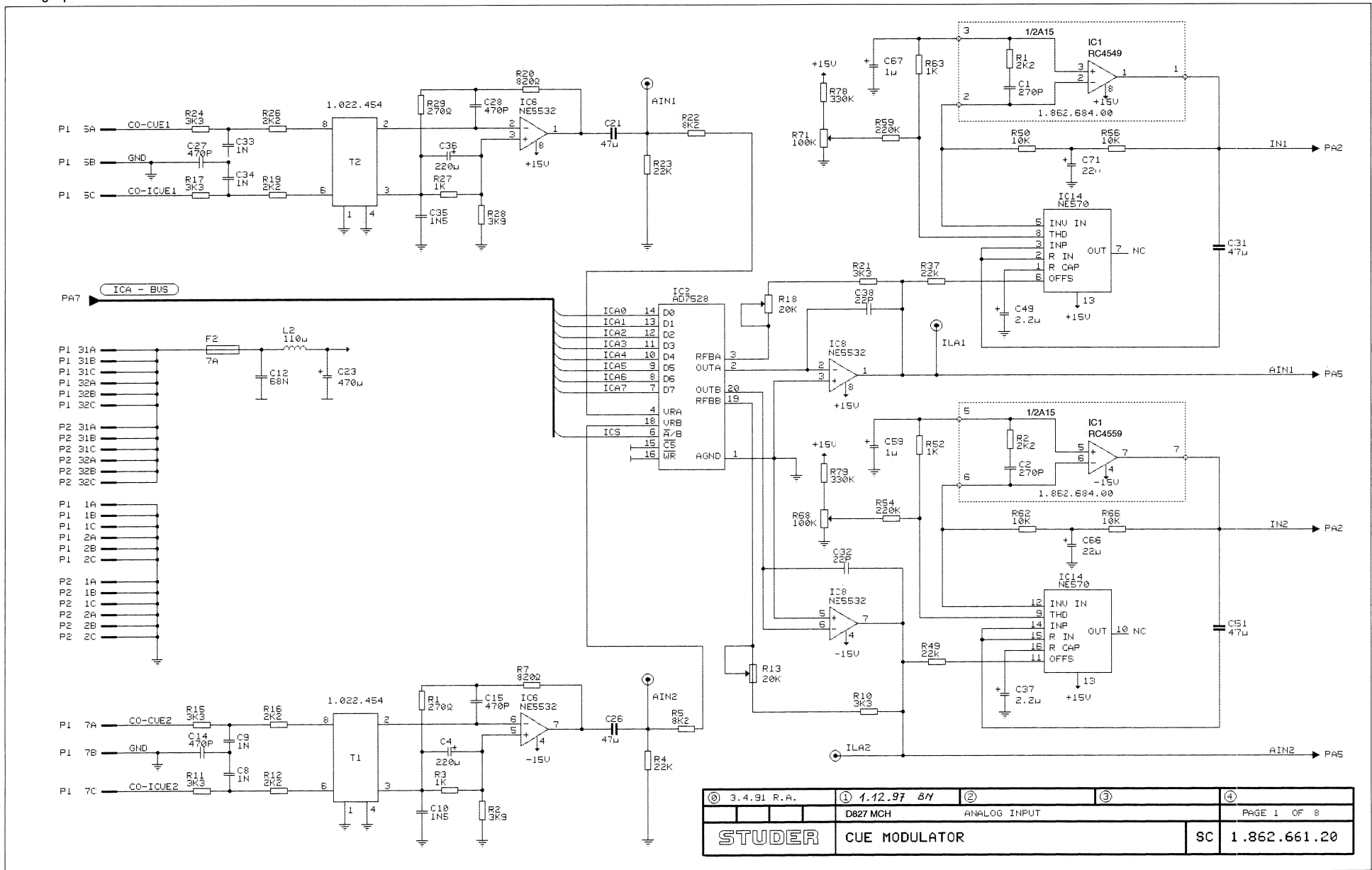
ABBREVIATIONS:  
CER = CERAMIC / FILM = FILM TYPE / XF = CLAMP FOR FUSES /  
XIC = IC SOCKET



**BLOCK DIAGRAM**  
Cue Modulator 1.862.661

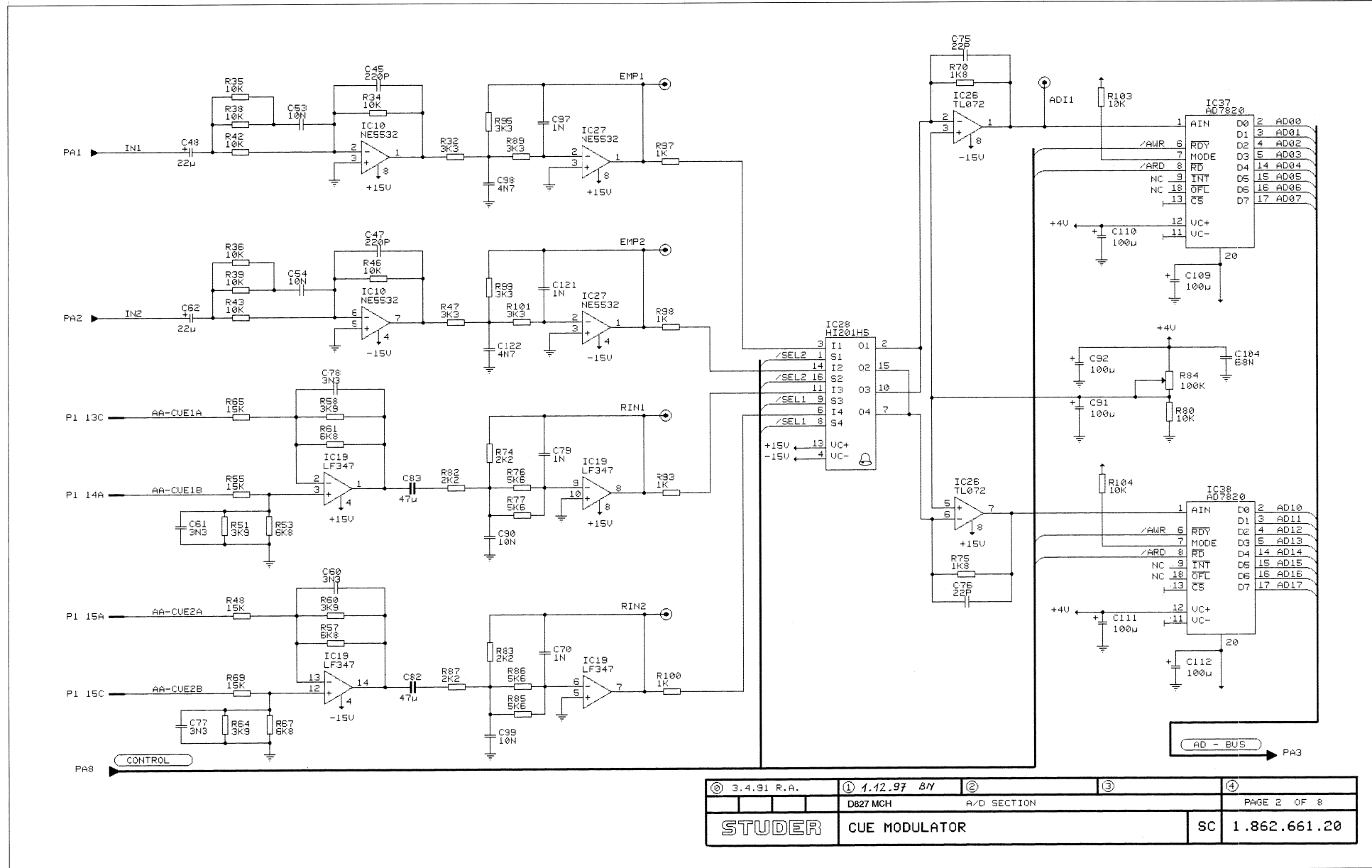


CUE MODULATOR 1.862.661.20  
-Analog Input



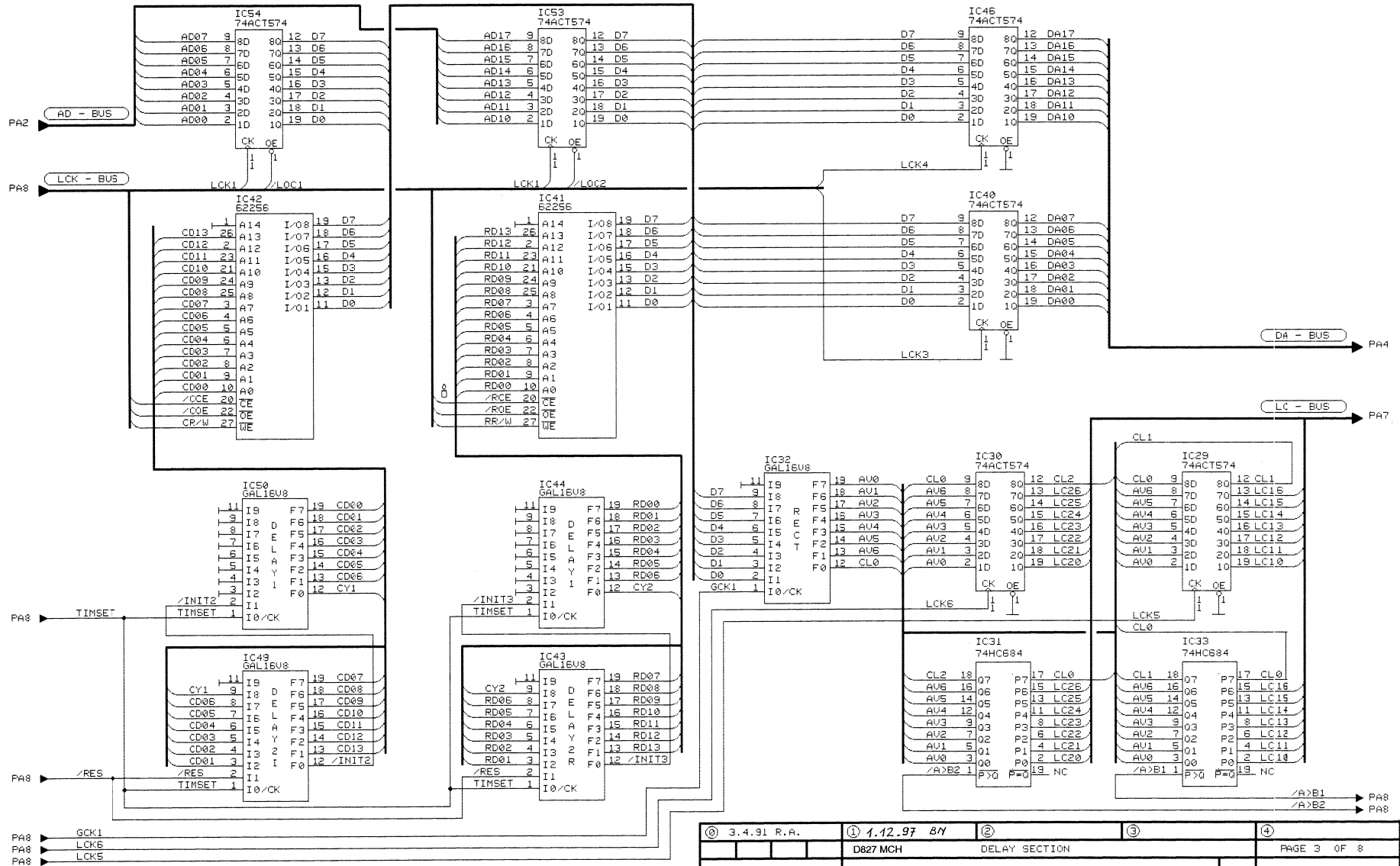
|               |              |               |   |
|---------------|--------------|---------------|---|
| ① 3.4.91 R.A. | ② 1.12.97 BY | ③             | ④ |
| D827 MCH      |              | ANALOG INPUT  |   |
| STUDER        |              | CUE MODULATOR |   |
| SC            | 1.862.661.20 |               |   |

CUE MODULATOR 1.862.661.20  
-A / D Section



|                      |              |             |              |
|----------------------|--------------|-------------|--------------|
| ① 3.4.91 P.A.        | ② 1.12.97 BY | ③           | ④            |
| D827 MCH A/D SECTION |              | PAGE 2 OF 8 |              |
| STUDER CUE MODULATOR |              | SC          | 1.862.661.20 |

CUE MODULATOR 1.862.661.20  
-Delay Section

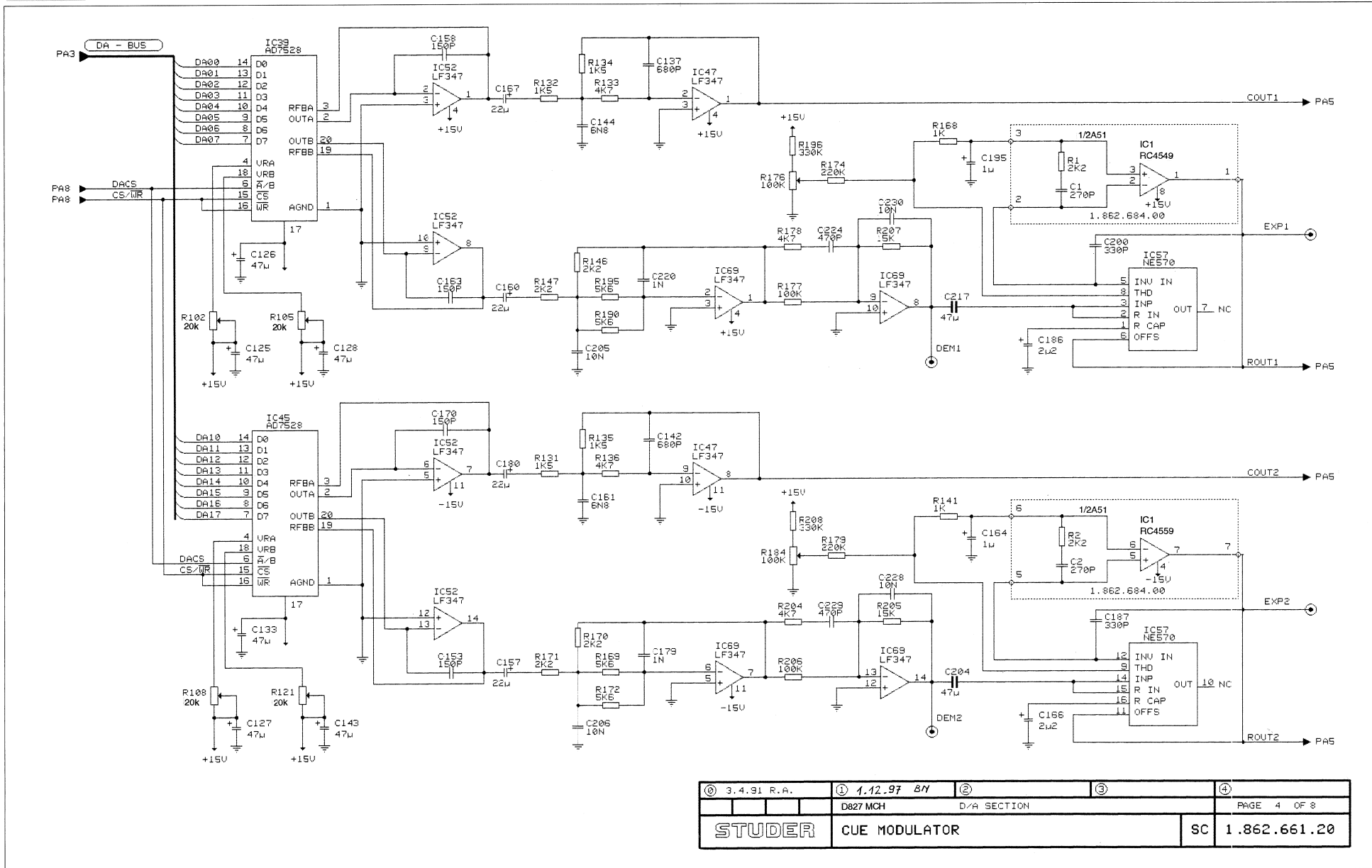


|               |              |               |   |                 |
|---------------|--------------|---------------|---|-----------------|
| ① 3.4.91 R.A. | ① 1.12.97 BY | ②             | ③ | ④               |
| D827 MCH      |              | DELAY SECTION |   | PAGE 3 OF 8     |
| STUDER        |              | CUE MODULATOR |   | SC 1.862.661.20 |

STUDER D827 MCH



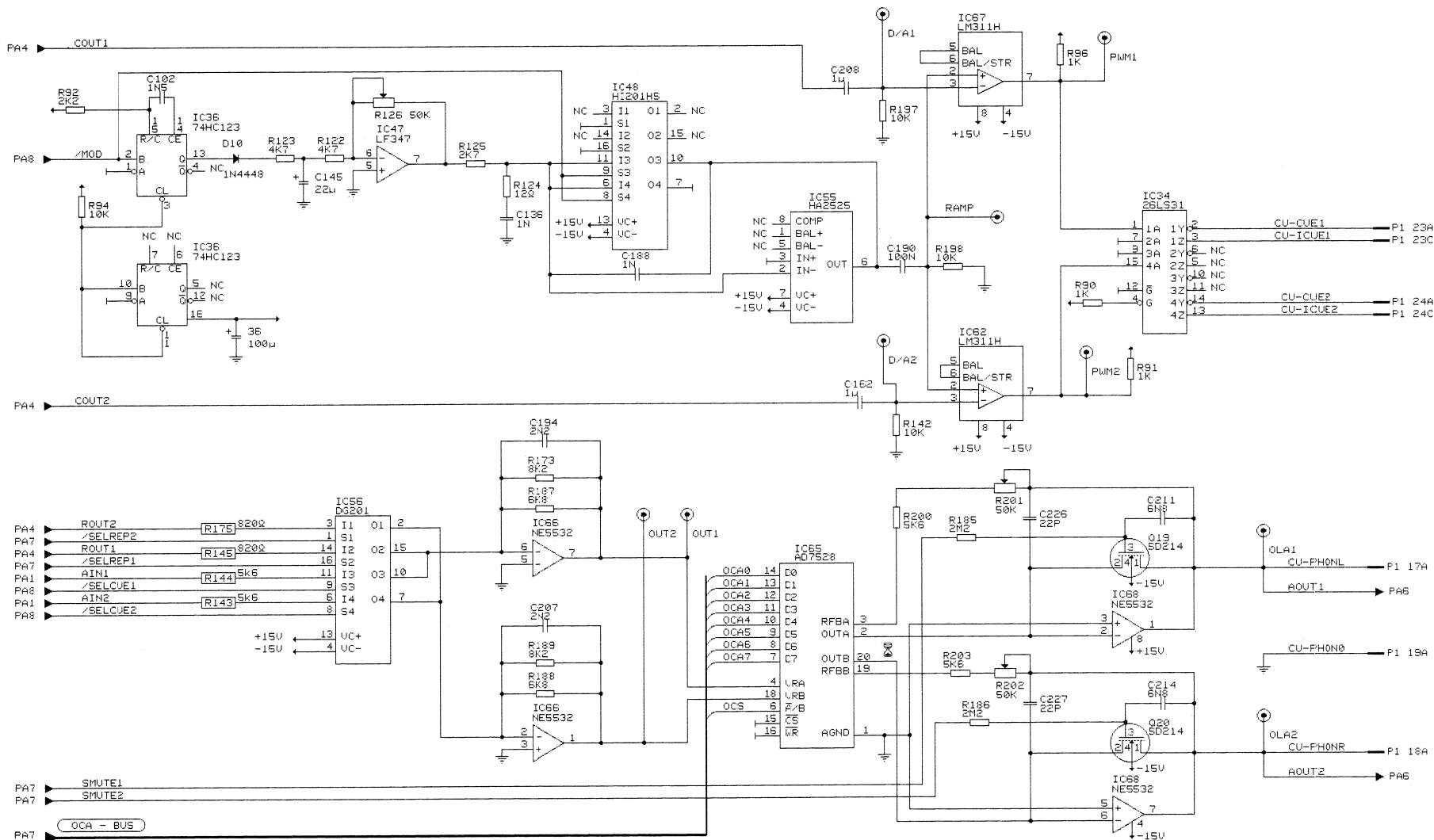
CUE MODULATOR 1.862.661.20  
D/A Section



|                      |              |             |    |              |
|----------------------|--------------|-------------|----|--------------|
| © 3.4.91 R.A.        | ① 1.12.97 BY | ②           | ③  | ④            |
| D827 MCH             |              | D/A SECTION |    | PAGE 4 OF 8  |
| STUDER CUE MODULATOR |              |             | SC | 1.862.661.20 |



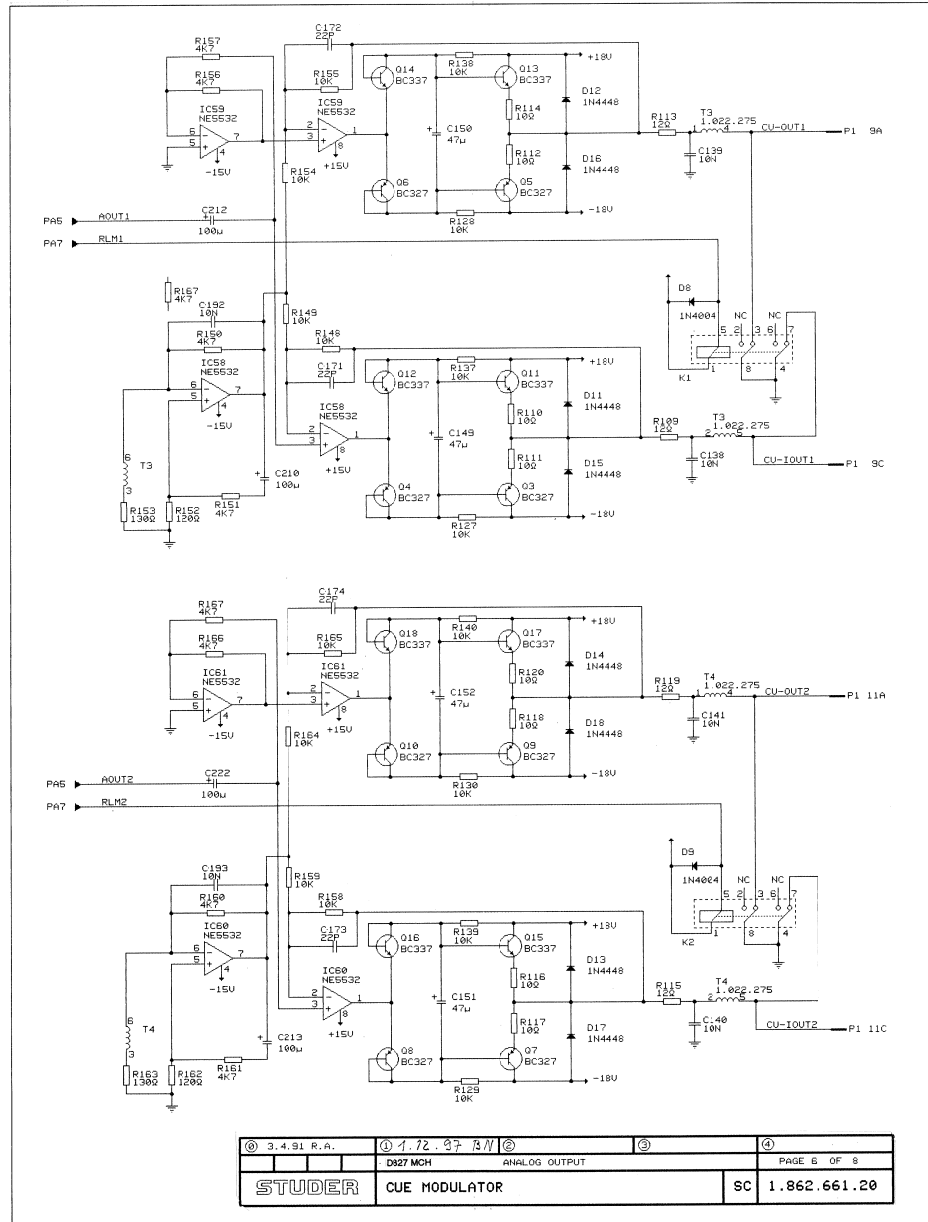
CUE MODULATOR 1.862.661.20  
-PWM Modulator / Output Adjust



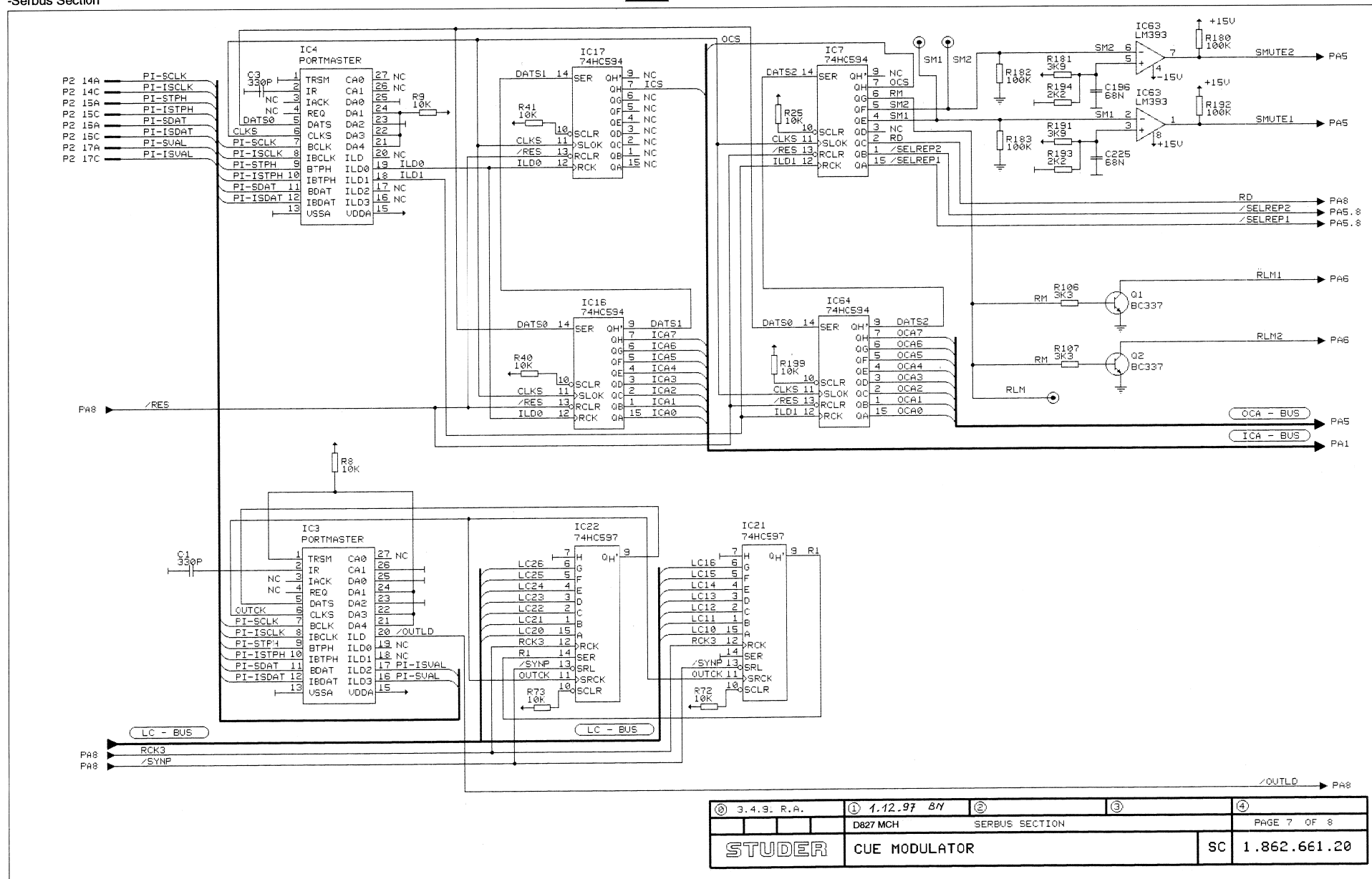
|                      |              |                               |    |              |
|----------------------|--------------|-------------------------------|----|--------------|
| ① 3.4.91 R.A.        | ① 1.12.97 BY | ②                             | ③  | ④            |
| D827 MCH             |              | PWM MODULATOR / OUTPUT ADJUST |    | PAGE 5 OF 8  |
| STUDER CUE MODULATOR |              |                               | SC | 1.862.661.20 |

CUE MODULATOR 1.862.661.20

-Analog Output



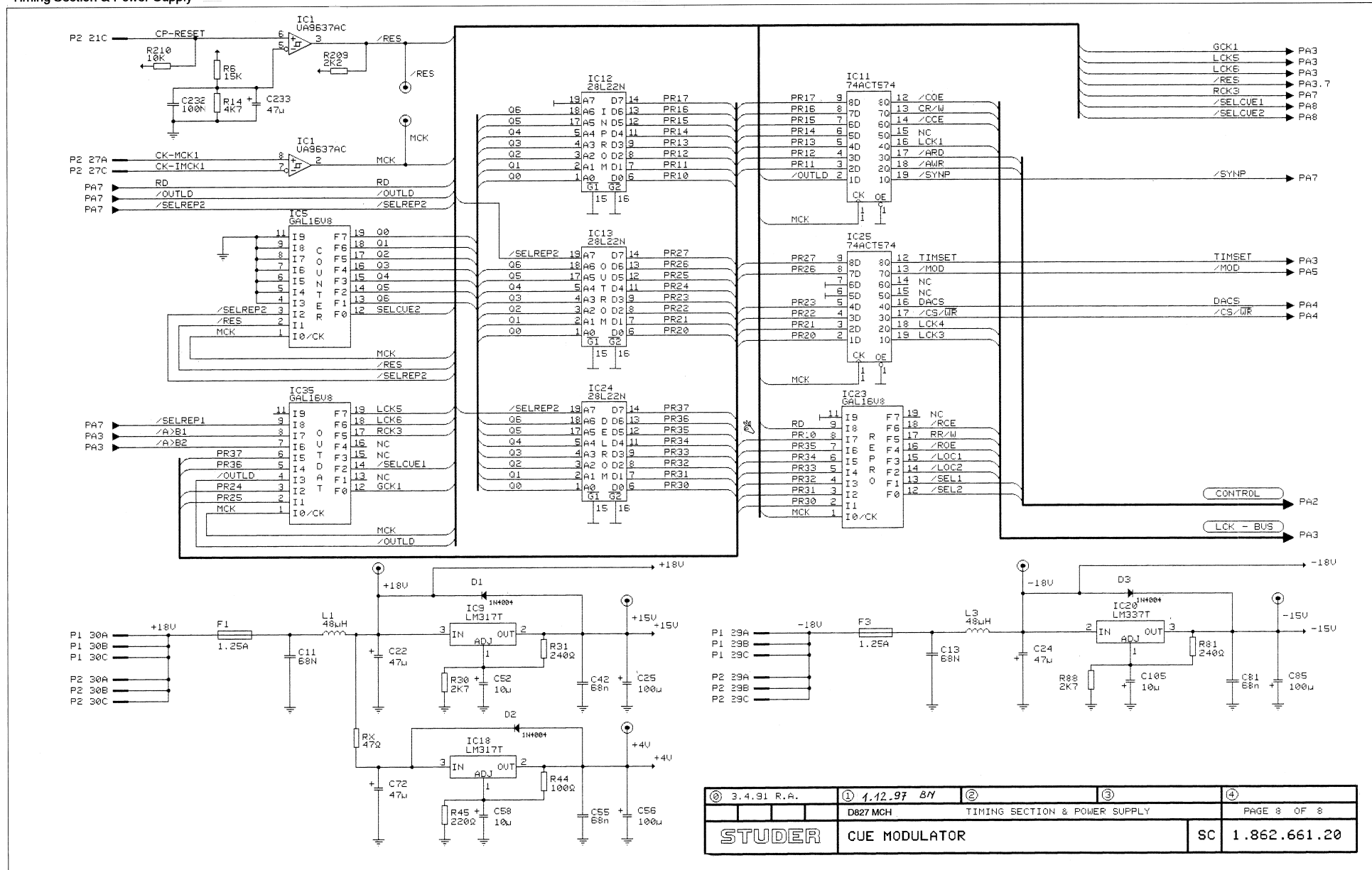
CUE MODULATOR 1.862.661.20  
-Serbus Section



|               |              |                |   |
|---------------|--------------|----------------|---|
| ① 3.4.9. R.A. | ② 1.12.97 BY | ③              | ④ |
| D827 MCH      |              | SERBUS SECTION |   |
| STUDER        |              | CUE MODULATOR  |   |
| SC            |              | 1.862.661.20   |   |



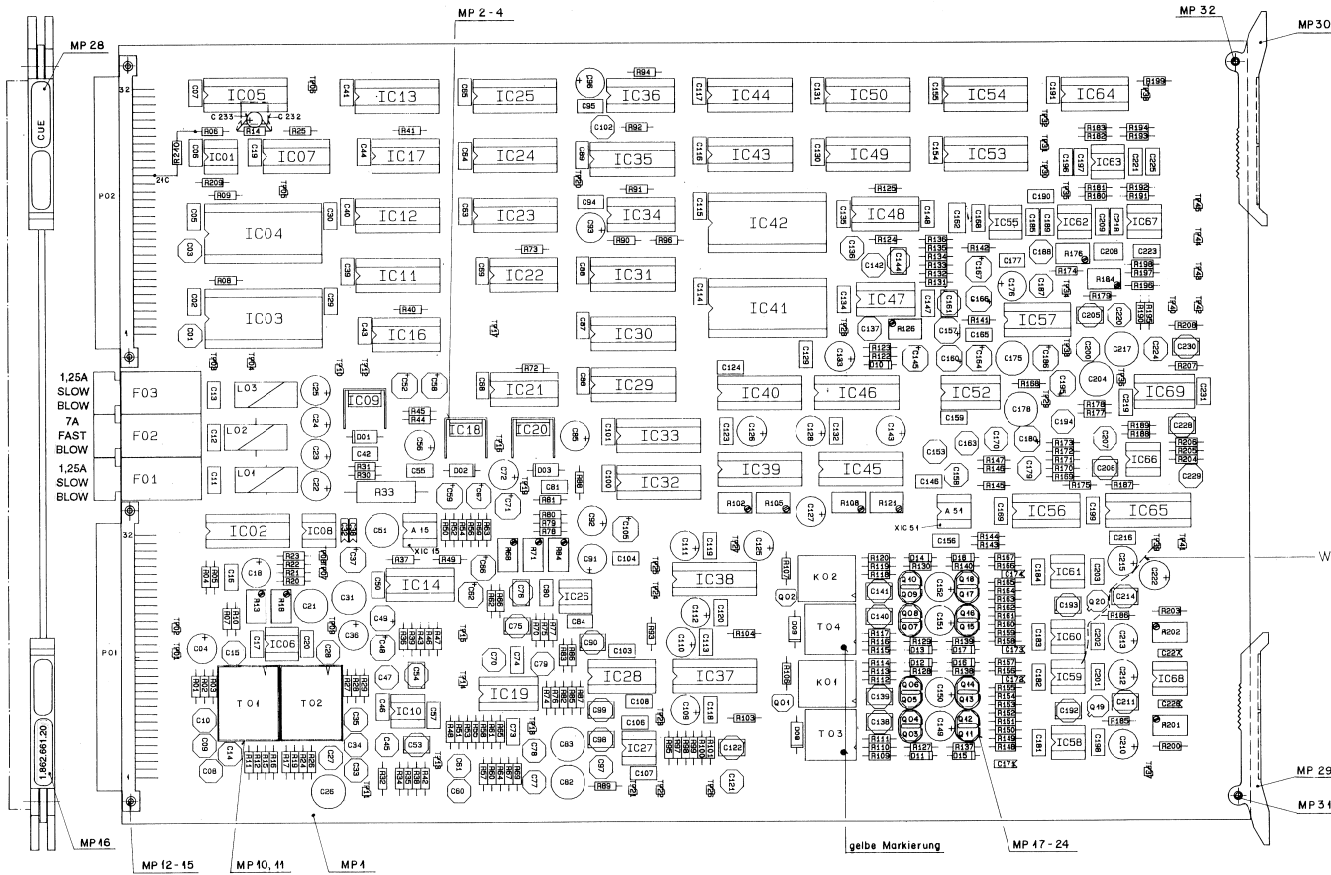
CUE MODULATOR 1.862.661.20  
-Timing Section & Power Supply



|               |              |                               |             |
|---------------|--------------|-------------------------------|-------------|
| ① 3.4.91 R.A. | ② 1.12.97 BY | ③                             | ④           |
| D827 MCH      |              | TIMING SECTION & POWER SUPPLY |             |
| STUDER        |              | CUE MODULATOR                 |             |
| SC            | 1.862.661.20 |                               | PAGE 8 OF 8 |



CUE MODULATOR 1.862.661.20



| Ad   | POS.   | REF.No.      | DESCRIPTION            | MANUFACTURER |
|------|--------|--------------|------------------------|--------------|
| 04   | A...15 | 1.862.684.00 | CUE PIGGI BACK         | St           |
| 04   | A...51 | 1.862.684.00 | CUE PIGGI BACK         | St           |
| C... | 1      | 59.34.4331   | 330 p 5%, 10V          | ANY          |
| C... | 2      | 59.06.0683   | 68 n 20%, 10V          | ANY          |
| C... | 3      | 59.34.4331   | 330 p 5%, 10V          | ANY          |
| C... | 4      | 59.22.2221   | 220 u 20%, 3V, EL      | ANY          |
| C... | 5      | 59.06.0683   | 68 n 20%, 10V          | ANY          |
| C... | 6      | 59.06.0683   | 68 n 20%, 10V          | ANY          |
| C... | 7      | 59.06.0683   | 68 n 20%, 10V          | ANY          |
| C... | 8      | 59.05.1102   | 1 n 1%, 100V, PP       | ANY          |
| C... | 9      | 59.05.1102   | 1 n 1%, 100V, PP       | ANY          |
| C... | 10     | 59.05.1152   | 1.5 n 1%, 20V, PP      | ANY          |
| C... | 11     | 59.06.0683   | 68 n 20%, 25V          | ANY          |
| C... | 12     | 59.06.0683   | 68 n 20%, 25V          | ANY          |
| C... | 13     | 59.06.0683   | 68 n 20%, 25V          | ANY          |
| C... | 14     | 59.05.2471   | 470 p 2.5%, 500V, PP   | ANY          |
| C... | 15     | 59.05.1471   | 470 p 1%, 40V, PP      | ANY          |
| C... | 16     | 59.06.0683   | 68 n 20%, 10V          | ANY          |
| C... | 17     | 59.06.0683   | 68 n 20%, 20V          | ANY          |
| C... | 18     | 59.22.3101   | 100 u 20%, 10V, EL     | ANY          |
| C... | 19     | 59.06.0683   | 68 n 20%, 10V          | ANY          |
| C... | 20     | 59.06.0683   | 68 n 20%, 20V          | ANY          |
| C... | 21     | 59.99.0401   | 47 u 20%, 16V, bipolar | ANY          |
| C... | 22     | 59.22.5470   | 47 u 20%, 25V, EL      | ANY          |
| C... | 23     | 59.22.3471   | 470 u 20%, 10V, EL     | ANY          |
| C... | 24     | 59.22.5470   | 47 u 20%, 25V, EL      | ANY          |
| C... | 25     | 59.22.5101   | 100 u 20%, 25V, EL     | ANY          |
| C... | 26     | 59.99.0401   | 47 u 20%, 16V, bipolar | ANY          |
| C... | 27     | 59.05.2471   | 470 p 2.5%, 500V, PP   | ANY          |
| C... | 28     | 59.05.1471   | 470 p 1%, 40V, PP      | ANY          |
| C... | 29     | 59.06.0683   | 68 n 20%, 10V          | ANY          |
| C... | 30     | 59.06.0683   | 68 n 20%, 10V          | ANY          |
| C... | 31     | 59.99.0401   | 47 u 20%, 16V, bipolar | ANY          |
| C... | 32     | 59.34.2220   | 22 p 5%, 25V, CER      | ANY          |
| C... | 33     | 59.05.1102   | 1 n 1%, 100V, PP       | ANY          |
| C... | 34     | 59.05.1102   | 1 n 1%, 100V, PP       | ANY          |
| C... | 35     | 59.05.1152   | 1.5 n 1%, 25V, PP      | ANY          |
| C... | 36     | 59.22.2221   | 220 u 20%, 3V, EL      | ANY          |
| C... | 37     | 59.22.8229   | 2.2 u 20%, 25V, EL     | ANY          |
| C... | 38     | 59.34.2220   | 22 p 2.5%, 25V, CER    | ANY          |
| C... | 39     | 59.06.0683   | 68 n 20%, 10V          | ANY          |
| C... | 40     | 59.06.0683   | 68 n 20%, 10V          | ANY          |
| C... | 41     | 59.06.0683   | 68 n 20%, 10V          | ANY          |
| C... | 42     | 59.06.0683   | 68 n 20%, 20V          | ANY          |
| C... | 43     | 59.06.0683   | 68 n 20%, 10V          | ANY          |
| C... | 44     | 59.06.0683   | 68 n 20%, 10V          | ANY          |
| C... | 45     | 59.05.2221   | 220 p 2.5%, 25V, PP    | ANY          |
| C... | 46     | 59.06.0683   | 68 n 20%, 20V          | ANY          |
| C... | 47     | 59.05.2221   | 220 p 2.5%, 25V, PP    | ANY          |
| C... | 48     | 59.22.5220   | 22 u 20%, 25V, EL      | ANY          |
| C... | 49     | 59.22.8229   | 2.2 u 20%, 25V, EL     | ANY          |
| C... | 50     | 59.06.0683   | 68 n 20%, 20V          | ANY          |
| C... | 51     | 59.99.0401   | 47 u 20%, 16V, bipolar | ANY          |
| C... | 52     | 59.22.6100   | 10 u 20%, 25V, EL      | ANY          |
| C... | 53     | 59.05.2103   | 10 n 2.5%, 25V, PP     | ANY          |
| C... | 54     | 59.05.2103   | 10 n 2.5%, 25V, PP     | ANY          |
| C... | 55     | 59.06.0683   | 68 n 20%, 10V          | ANY          |
| C... | 56     | 59.22.3101   | 100 u 20%, 10V, EL     | ANY          |
| C... | 57     | 59.06.0683   | 68 n 20%, 20V          | ANY          |
| C... | 58     | 59.22.6100   | 10 u 20%, 25V, EL      | ANY          |
| C... | 59     | 59.22.8109   | 1 u 20%, 25V, EL       | ANY          |
| C... | 60     | 59.05.2332   | 3.3 n 2.5%, 40V, PP    | ANY          |
| C... | 61     | 59.05.2332   | 3.3 n 2.5%, 40V, PP    | ANY          |
| C... | 62     | 59.22.5220   | 22 u 20%, 25V, EL      | ANY          |
| C... | 63     | 59.06.0683   | 68 n 20%, 10V          | ANY          |
| C... | 64     | 59.06.0683   | 68 n 20%, 10V          | ANY          |
| C... | 65     | 59.06.0683   | 68 n 20%, 10V          | ANY          |
| C... | 66     | 59.22.5220   | 22 u 20%, 25V, EL      | ANY          |
| C... | 67     | 59.22.8109   | 1 u 20%, 25V, EL       | ANY          |
| C... | 68     | 59.06.0683   | 68 n 20%, 10V          | ANY          |
| C... | 69     | 59.06.0683   | 68 n 20%, 10V          | ANY          |
| C... | 70     | 59.05.2102   | 1 n 2.5%, 25V, PP      | ANY          |
| C... | 71     | 59.22.5220   | 22 u 20%, 25V, EL      | ANY          |
| C... | 72     | 59.22.5470   | 47 u 20%, 25V, EL      | ANY          |
| C... | 73     | 59.06.0683   | 68 n 20%, 20V          | ANY          |
| C... | 74     | 59.06.0683   | 68 n 20%, 20V          | ANY          |
| C... | 75     | 59.34.2220   | 22 p 2.5%, 20V, PP     | ANY          |
| C... | 76     | 59.34.2220   | 22 p 2.5%, 20V, PP     | ANY          |
| C... | 77     | 59.05.2332   | 3.3 n 2.5%, 40V, PP    | ANY          |
| C... | 78     | 59.05.2332   | 3.3 n 2.5%, 40V, PP    | ANY          |
| C... | 79     | 59.05.2102   | 1 n 2.5%, 25V, PP      | ANY          |
| C... | 80     | 59.06.0683   | 68 n 20%, 20V          | ANY          |
| C... | 81     | 59.06.0683   | 68 n 20%, 20V          | ANY          |
| C... | 82     | 59.99.0401   | 47 u 10%, 16V, bipolar | ANY          |
| C... | 83     | 59.99.0401   | 47 u 10%, 16V, bipolar | ANY          |
| C... | 84     | 59.06.0683   | 68 n 20%, 20V          | ANY          |
| C... | 85     | 59.22.5101   | 100 u 20%, 25V, EL     | ANY          |
| C... | 86     | 59.06.0683   | 68 n 20%, 10V          | ANY          |
| C... | 87     | 59.06.0683   | 68 n 20%, 10V          | ANY          |
| C... | 88     | 59.06.0683   | 68 n 20%, 10V          | ANY          |
| C... | 89     | 59.06.0683   | 68 n 20%, 10V          | ANY          |
| C... | 90     | 59.05.2103   | 10 n 2.5%, 25V, PP     | ANY          |
| C... | 91     | 59.22.3101   | 100 u 20%, 10V, EL     | ANY          |
| C... | 92     | 59.22.3101   | 100 u 20%, 10V, EL     | ANY          |
| C... | 93     | 59.22.3101   | 100 u 20%, 10V, EL     | ANY          |

|              |               |      |     |
|--------------|---------------|------|-----|
| STUDER       | CUE-MODULATOR |      | ESE |
| REGENSDORF   |               |      |     |
| ZÜRICH       |               |      |     |
| Abrechnung   |               |      |     |
| Datum        | Gez           | Ungr | Stk |
| Kopie für    |               |      |     |
| Nennwert     |               |      |     |
| 1.862.661-20 |               |      |     |

STUDER D827 MCH



CUE MODULATOR 1.862.661.20

| Ad   | POS. | REF.No.    | DESCRIPTION         | MANUFACTURER | Ad   | POS. | REF.No.    | DESCRIPTION            | MANUFACTURER | Ad    | POS. | REF.No.    | DESCRIPTION    | MANUFACTURER      | Ad   | POS. | REF.No.    | DESCRIPTION    | MANUFACTURER   |     |
|------|------|------------|---------------------|--------------|------|------|------------|------------------------|--------------|-------|------|------------|----------------|-------------------|------|------|------------|----------------|----------------|-----|
| C... | 94   | 59.06.0683 | 68 n 20%, 10V       | ANY          | C... | 191  | 59.06.0683 | 68 n 20%, 10V          | ANY          | IC... | 25   | 50.17.0574 | 74 ICT 574     | ANY               | Q... | 5    | 50.03.0625 | BC 327 matched | ANY            |     |
| C... | 95   | 59.06.0683 | 68 n 20%, 10V       | ANY          | C... | 192  | 59.05.2103 | 10 n 2.5%, 40V, PP     | ANY          | IC... | 26   | 50.09.0101 | TL 072 CP      | ANY               | Q... | 6    | 50.03.0625 | BC 327 matched | ANY            |     |
| C... | 96   | 59.22.3101 | 100 u 20%, 25V, EL  | ANY          | C... | 193  | 59.05.2103 | 10 n 2.5%, 40V, PP     | ANY          | IC... | 27   | 50.09.0106 | NE 5532 AN     | ANY               | Q... | 7    | 50.03.0625 | BC 327 matched | ANY            |     |
| C... | 97   | 59.05.2102 | 1 n 2.5%, 25V, PP   | ANY          | C... | 194  | 59.05.2222 | 2.2 n 2.5%, 25V, PP    | ANY          | IC... | 28   | 50.17.0101 | H11-201 HS-5   | ANY               | Q... | 8    | 50.03.0625 | BC 327 matched | ANY            |     |
| C... | 98   | 59.05.2472 | 4.7 n 2.5%, 25V, PP | ANY          | C... | 195  | 59.22.8109 | 1 u 20%, 25V, EL       | ANY          | IC... | 29   | 50.17.1574 | 74 IC 574      | ANY               | Q... | 9    | 50.03.0625 | BC 327 matched | ANY            |     |
| C... | 99   | 59.05.2103 | 10 n 2.5%, 25V, PP  | ANY          | C... | 196  | 59.06.0683 | 68 n 20%, 10V          | ANY          | IC... | 30   | 50.17.1574 | 74 IC 574      | ANY               | Q... | 10   | 50.03.0625 | BC 327 matched | ANY            |     |
| C... | 100  | 59.06.0683 | 68 n 20%, 10V       | ANY          | C... | 197  | 59.06.0683 | 68 n 20%, 20V          | ANY          | IC... | 31   | 50.17.1684 | 74 IC 684      | ANY               | Q... | 11   | 50.03.0516 | BC 337 matched | ANY            |     |
| C... | 101  | 59.06.0683 | 68 n 20%, 10V       | ANY          | C... | 198  | 59.06.0683 | 68 n 20%, 20V          | ANY          | IC... | 32   | 50.18.0100 | 16 V 8 - 25    | (SW 1.862.986.20) | ANY  | Q... | 12         | 50.03.0516     | BC 337 matched | ANY |
| C... | 102  | 59.05.2152 | 1.5 n 2.5%, 10V, PP | ANY          | C... | 199  | 59.06.0683 | 68 n 20%, 20V          | ANY          | IC... | 33   | 50.18.0100 | 16 V 8 - 25    | (SW 1.862.991.20) | ANY  | Q... | 13         | 50.03.0516     | BC 337 matched | ANY |
| C... | 103  | 59.06.0683 | 68 n 20%, 20V       | ANY          | C... | 200  | 59.05.2331 | 330 p 2.5%, 25V, PP    | ANY          | IC... | 34   | 50.18.0100 | 16 V 8 - 25    | (SW 1.862.991.20) | ANY  | Q... | 14         | 50.03.0516     | BC 337 matched | ANY |
| C... | 104  | 59.06.0683 | 68 n 20%, 10V       | ANY          | C... | 201  | 59.06.0683 | 68 n 20%, 20V          | ANY          | IC... | 35   | 50.18.0100 | 16 V 8 - 25    | (SW 1.862.991.20) | ANY  | Q... | 15         | 50.03.0516     | BC 337 matched | ANY |
| C... | 105  | 59.22.8109 | 10 u 20%, 25V, EL   | ANY          | C... | 202  | 59.06.0683 | 68 n 20%, 20V          | ANY          | IC... | 36   | 50.18.0100 | 16 V 8 - 25    | (SW 1.862.991.20) | ANY  | Q... | 16         | 50.03.0516     | BC 337 matched | ANY |
| C... | 106  | 59.06.0683 | 68 n 20%, 20V       | ANY          | C... | 203  | 59.06.0683 | 68 n 20%, 20V          | ANY          | IC... | 37   | 50.18.0100 | 16 V 8 - 25    | (SW 1.862.991.20) | ANY  | Q... | 17         | 50.03.0516     | BC 337 matched | ANY |
| C... | 107  | 59.06.0683 | 68 n 20%, 20V       | ANY          | C... | 204  | 59.99.0401 | 47 u 10%, 16V, bipolar | ANY          | IC... | 38   | 50.17.1123 | 74 IC 123      | ANY               | Q... | 18   | 50.03.0516 | BC 337 matched | ANY            |     |
| C... | 108  | 59.06.0683 | 68 n 20%, 20V       | ANY          | C... | 205  | 59.05.2103 | 10 n 2.5%, 25V, PP     | ANY          | IC... | 39   | 50.19.0109 | AD 7820        | ANY               | Q... | 19   | 50.11.0106 | SD 214-DE      | ANY            |     |
| C... | 109  | 59.22.3101 | 100 u 20%, 10V, EL  | ANY          | C... | 206  | 59.05.2103 | 10 n 2.5%, 25V, PP     | ANY          | IC... | 40   | 50.17.0574 | AD 7820        | ANY               | Q... | 20   | 50.11.0106 | SD 214-DE      | ANY            |     |
| C... | 110  | 59.22.3101 | 100 u 20%, 10V, EL  | ANY          | C... | 207  | 59.05.2222 | 2.2 n 2.5%, 25V, PP    | ANY          | IC... | 41   | 50.14.1004 | HM 4256 LP -12 | ANY               | R... | 1    | 57.11.3271 | 270 E 1%       | ANY            |     |
| C... | 111  | 59.22.3101 | 100 u 20%, 10V, EL  | ANY          | C... | 208  | 59.06.5105 | 1 u 20%, 30V, bipolar  | ANY          | IC... | 42   | 50.14.1004 | HM 4256 LP -12 | ANY               | R... | 2    | 57.11.3392 | 3.9 k 1%       | ANY            |     |
| C... | 112  | 59.22.3101 | 100 u 20%, 10V, EL  | ANY          | C... | 209  | 59.06.0683 | 68 n 20%, 20V          | ANY          | IC... | 43   | 50.18.0100 | 16 V 8 - 25    | (SW 1.862.990.20) | ANY  | R... | 3          | 57.11.3102     | 1 k 1%         | ANY |
| C... | 113  | 59.06.0683 | 68 n 20%, 10V       | ANY          | C... | 210  | 59.22.5101 | 100 u 20%, 25V, EL     | ANY          | IC... | 44   | 50.18.0100 | 16 V 8 - 25    | (SW 1.862.990.20) | ANY  | R... | 4          | 57.11.3223     | 22 k 1%        | ANY |
| C... | 114  | 59.06.0683 | 68 n 20%, 10V       | ANY          | C... | 211  | 59.05.2682 | 6.8 n 2.5%, 40V, PP    | ANY          | IC... | 45   | 50.18.0100 | 16 V 8 - 25    | (SW 1.862.990.20) | ANY  | R... | 5          | 57.11.3822     | 8.2 k 1%       | ANY |
| C... | 115  | 59.06.0683 | 68 n 20%, 10V       | ANY          | C... | 212  | 59.22.5101 | 100 u 20%, 25V, EL     | ANY          | IC... | 46   | 50.18.0100 | 16 V 8 - 25    | (SW 1.862.990.20) | ANY  | R... | 6          | 57.11.3153     | 15 k 1%        | ANY |
| C... | 116  | 59.06.0683 | 68 n 20%, 10V       | ANY          | C... | 213  | 59.22.5101 | 100 u 20%, 25V, EL     | ANY          | IC... | 47   | 50.18.0100 | 16 V 8 - 25    | (SW 1.862.990.20) | ANY  | R... | 7          | 57.11.3821     | 820 E 1%       | ANY |
| C... | 117  | 59.06.0683 | 68 n 20%, 10V       | ANY          | C... | 214  | 59.05.2682 | 6.8 n 2.5%, 40V, PP    | ANY          | IC... | 48   | 50.17.0101 | HM 4256 LP -12 | ANY               | R... | 8    | 57.11.3103 | 10 k 1%        | ANY            |     |
| C... | 118  | 59.06.0683 | 68 n 20%, 10V       | ANY          | C... | 215  | 59.22.3101 | 100 u 20%, 10V, EL     | ANY          | IC... | 49   | 50.18.0100 | 16 V 8 - 25    | (SW 1.862.989.20) | ANY  | R... | 9          | 57.11.3103     | 10 k 1%        | ANY |
| C... | 119  | 59.06.0683 | 68 n 20%, 10V       | ANY          | C... | 216  | 59.06.0683 | 68 n 20%, 10V          | ANY          | IC... | 50   | 50.18.0100 | 16 V 8 - 25    | (SW 1.862.989.20) | ANY  | R... | 10         | 57.11.3562     | 5.6 k 1%       | ANY |
| C... | 120  | 59.06.0683 | 68 n 20%, 10V       | ANY          | C... | 217  | 59.99.0401 | 47 u 10%, 16V, bipolar | ANY          | IC... | 51   | 50.09.0106 | NE 5532 AN     | ANY               | R... | 11   | 57.11.3322 | 3.3 k 1%       | ANY            |     |
| C... | 121  | 59.05.2102 | 1 n 2.5%, 25V, PP   | ANY          | C... | 218  | 59.06.0683 | 68 n 20%, 20V          | ANY          | IC... | 52   | 50.11.0114 |                |                   |      |      |            |                |                |     |



CUE MODULATOR 1.862.661.20

Table with columns: Ad, .POS., .REF.No., DESCRIPTION, MANUFACTURER. It lists numerous parts with their identifiers, descriptions (e.g., resistors, capacitors, diodes), and manufacturers (e.g., ANY, R., T., TP., XF., XIC.).

**CUE MODULATOR 1.862.661.20**  
 - CUE PIGGY BACK 1.862.684.00

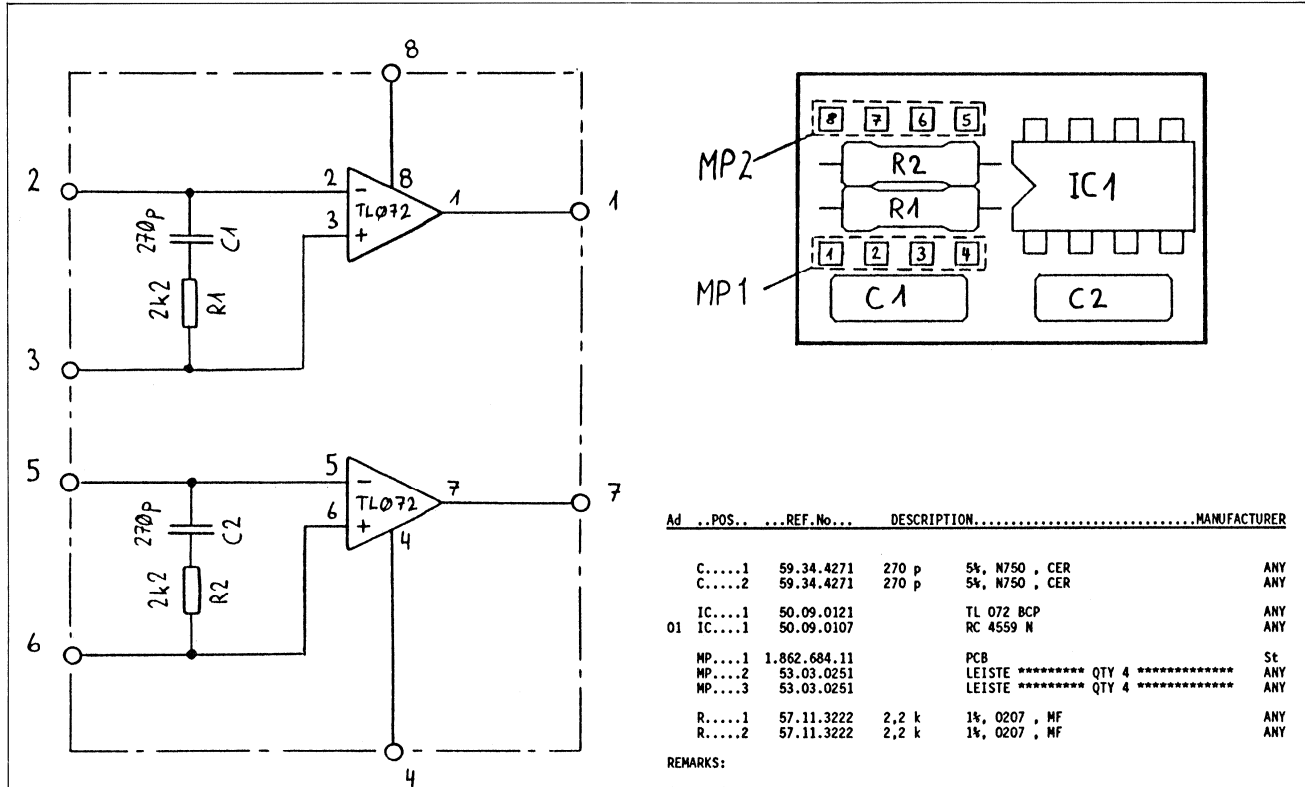
| Ad | ..POS.. | ..REF.No... | DESCRIPTION..... | MANUFACTURER |
|----|---------|-------------|------------------|--------------|
| 04 | XIC..51 | 53.03.0166  | DIL 8-PIN        | ANY          |
|    | XIC..56 | 53.03.0168  | DIL 16-PIN       | ANY          |
|    | XIC..57 | 53.03.0168  | DIL 16-PIN       | ANY          |
|    | XIC..64 | 53.03.0168  | DIL 16-PIN       | ANY          |
|    | XIC..65 | 53.03.0165  | DIL 20-PIN       | ANY          |

REMARKS: print-version of 18.4.89 (emphasis & de-emphasis and compressor & expander on the CUE-BOARD)

Comments  
 (04) 22. jan 90 ASY 15,51 neu; XIC 15,51 neu  
 (05) 6. apr 90 R6,R14; R210 neu, C232, C233 neu  
 (06) 18. sep 90 SICHERUNG ERSETZ DURCH "MINIFUSE"  
 (07) 6. dec 94 K1, K2 replaced by new part number.  
 (08) 1.jan 98 Extended reference level setting of PWM

MANUFACTURERS:

|              |           |               |
|--------------|-----------|---------------|
| 1.862.661.20 | CUE BOARD | gro06/06/8900 |
| 1.862.661.20 | CUE BOARD | BAD89/09/0401 |
| 1.862.661.20 | CUE BOARD | RU 89/09/2702 |
| 1.862.661.20 | CUE BOARD | RU 89/10/1803 |
| 1.862.661.20 | CUE BOARD | RU 90/01/2204 |
| 1.862.661.20 | CUE BOARD | RU 90/04/0605 |
| 1.862.661.20 | CUE BOARD | RA 90/09/1806 |
| 1.862.661.20 | CUE BOARD | GP 94/12/0607 |



**POSITION:**  
 Every CUE-BOARD will have two PIGGI BACK  
 PIGGI BACK A15 will be connected with the socket of IC15  
 PIGGI BACK A51 will be connected with the socket of IC51  
**see schematic diagram Cue modulator 1.862.661**

| Ad | ..POS.. | ..REF.No...  | DESCRIPTION..... | MANUFACTURER             |     |
|----|---------|--------------|------------------|--------------------------|-----|
|    | C.....1 | 59.34.4271   | 270 p            | 5%, N750 , CER           | ANY |
|    | C.....2 | 59.34.4271   | 270 p            | 5%, N750 , CER           | ANY |
| 01 | IC....1 | 50.09.0121   |                  | TL 072 BCP               | ANY |
|    | IC....1 | 50.09.0107   |                  | RC 4559 N                | ANY |
|    | MP....1 | 1.862.684.11 |                  | PCB                      | St  |
|    | MP....2 | 53.03.0251   |                  | LEISTE ***** QTY 4 ***** | ANY |
|    | MP....3 | 53.03.0251   |                  | LEISTE ***** QTY 4 ***** | ANY |
|    | R.....1 | 57.11.3222   | 2,2 k            | 1%, 0207 , MF            | ANY |
|    | R.....2 | 57.11.3222   | 2,2 k            | 1%, 0207 , MF            | ANY |

REMARKS:

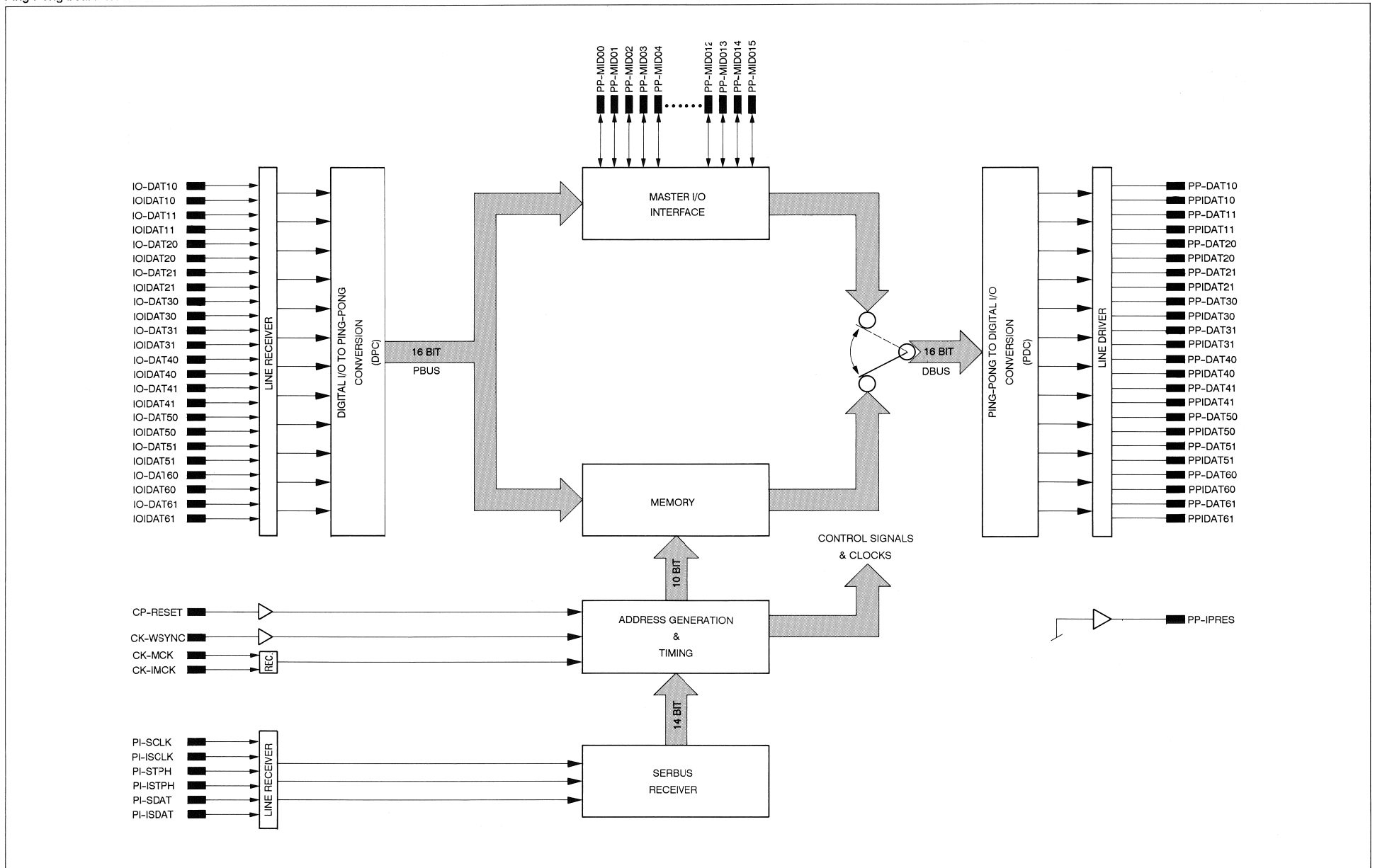
MANUFACTURERS:  
 St = STUDER / Ph = PHILIPS / So = SONY

ABBREVIATIONS:  
 CER = CERAMIC / FILM = FILM TYPE / XF = CLAMP FOR FUSES /  
 XIC = IC SOCKET

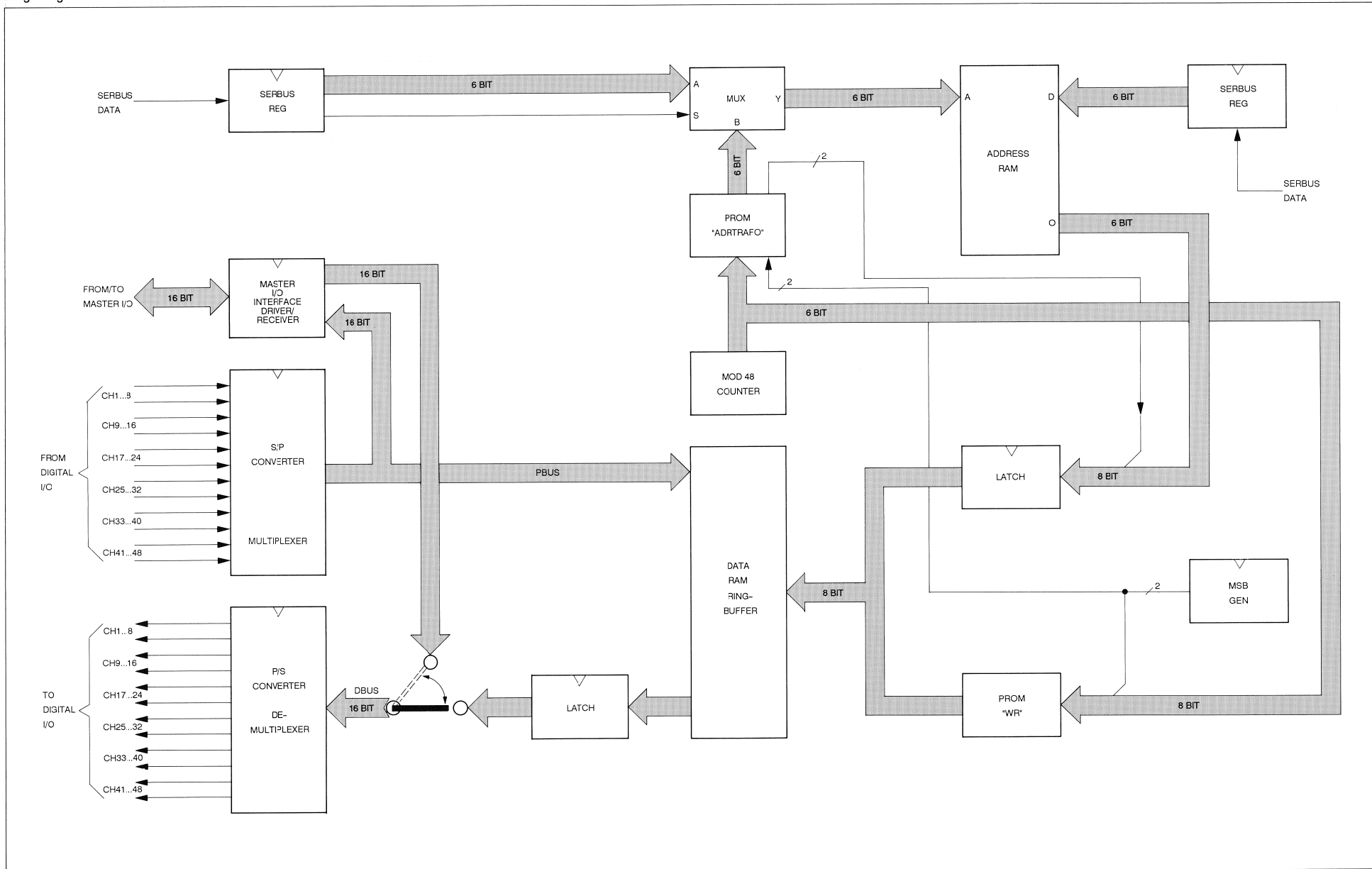
|              |                |               |
|--------------|----------------|---------------|
| 1.862.684.00 | CUE PIGGI BACK | BAD90/01/1900 |
| 1.862.684.00 | CUE PIGGI BACK | LAR92/03/0501 |

|                         |     |  |    |              |  |
|-------------------------|-----|--|----|--------------|--|
| 08.12.89                | gro |  |    |              |  |
| D820 MCH CUE PIGGI BACK |     |  |    | PAGE 1 OF 1  |  |
| STUDER                  |     |  | SC | 1.862.684-00 |  |

**BLOCK DIAGRAM Overview**  
Ping Pong board 1.862.662



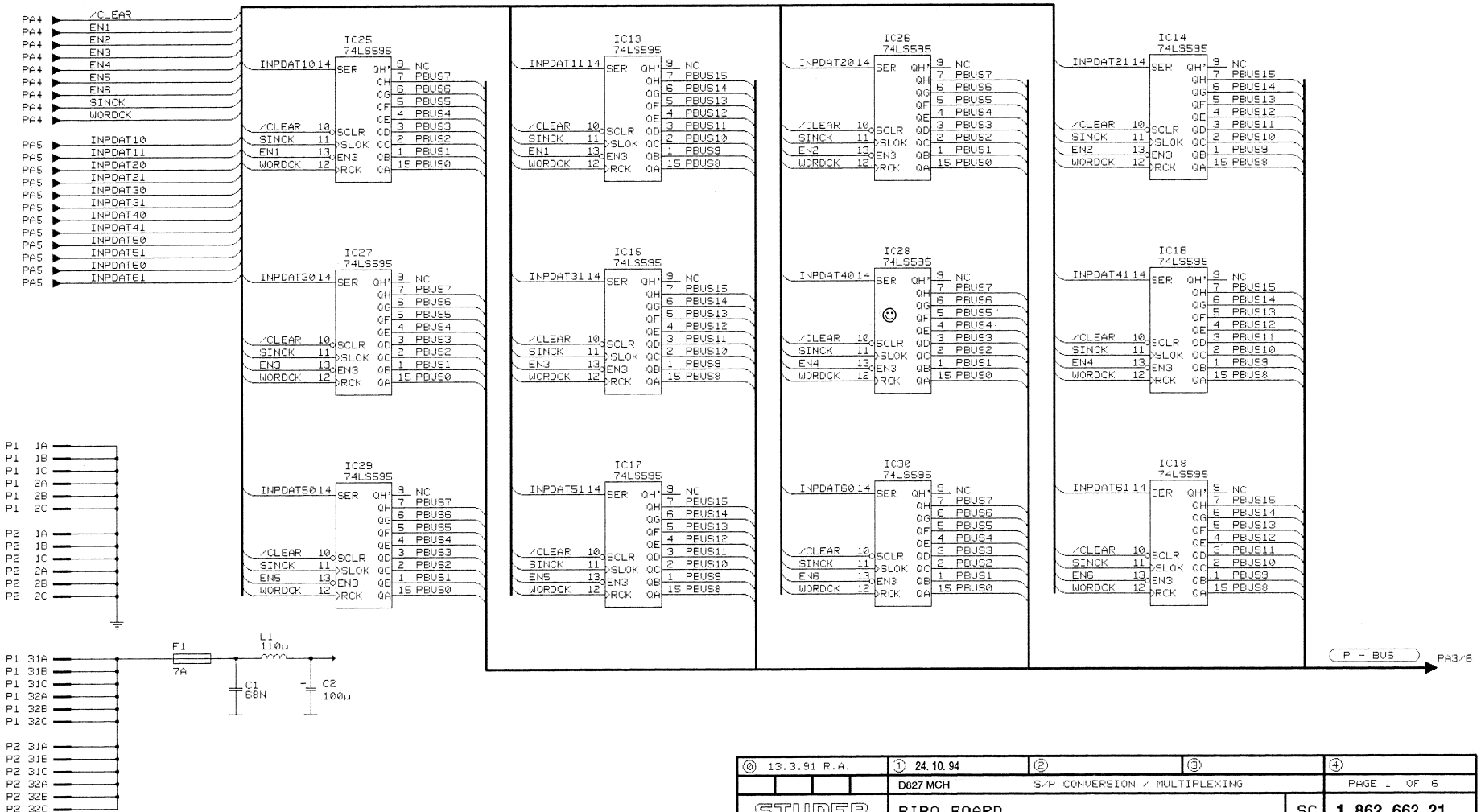
BLOCK DIAGRAM  
Ping Pong Board 1.862.662



STUDER D827 MCH



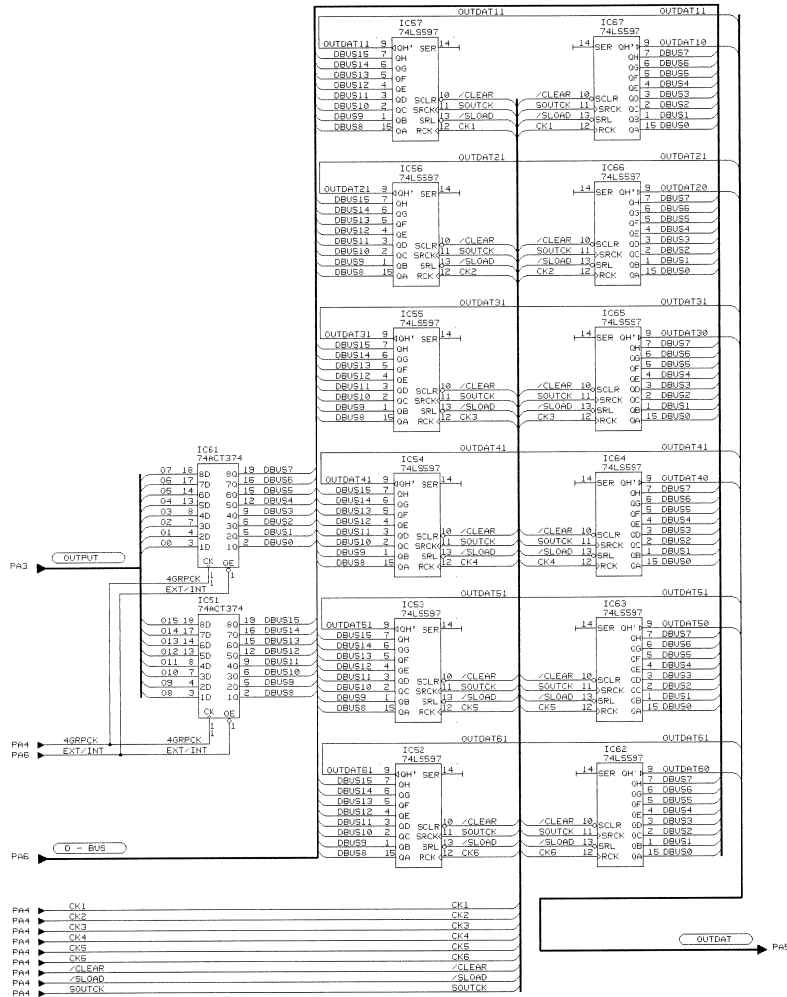
PING PONG BOARD 1.862.662.21  
S/P Conversion / Multiplexing



|                      |            |                               |    |              |
|----------------------|------------|-------------------------------|----|--------------|
| ① 13.3.91 R.A.       | ① 24.10.94 | ②                             | ③  | ④            |
| D827 MCH             |            | S/P CONVERSION / MULTIPLEXING |    | PAGE 1 OF 6  |
| STUDER P I P O BOARD |            |                               | SC | 1.862.662.21 |



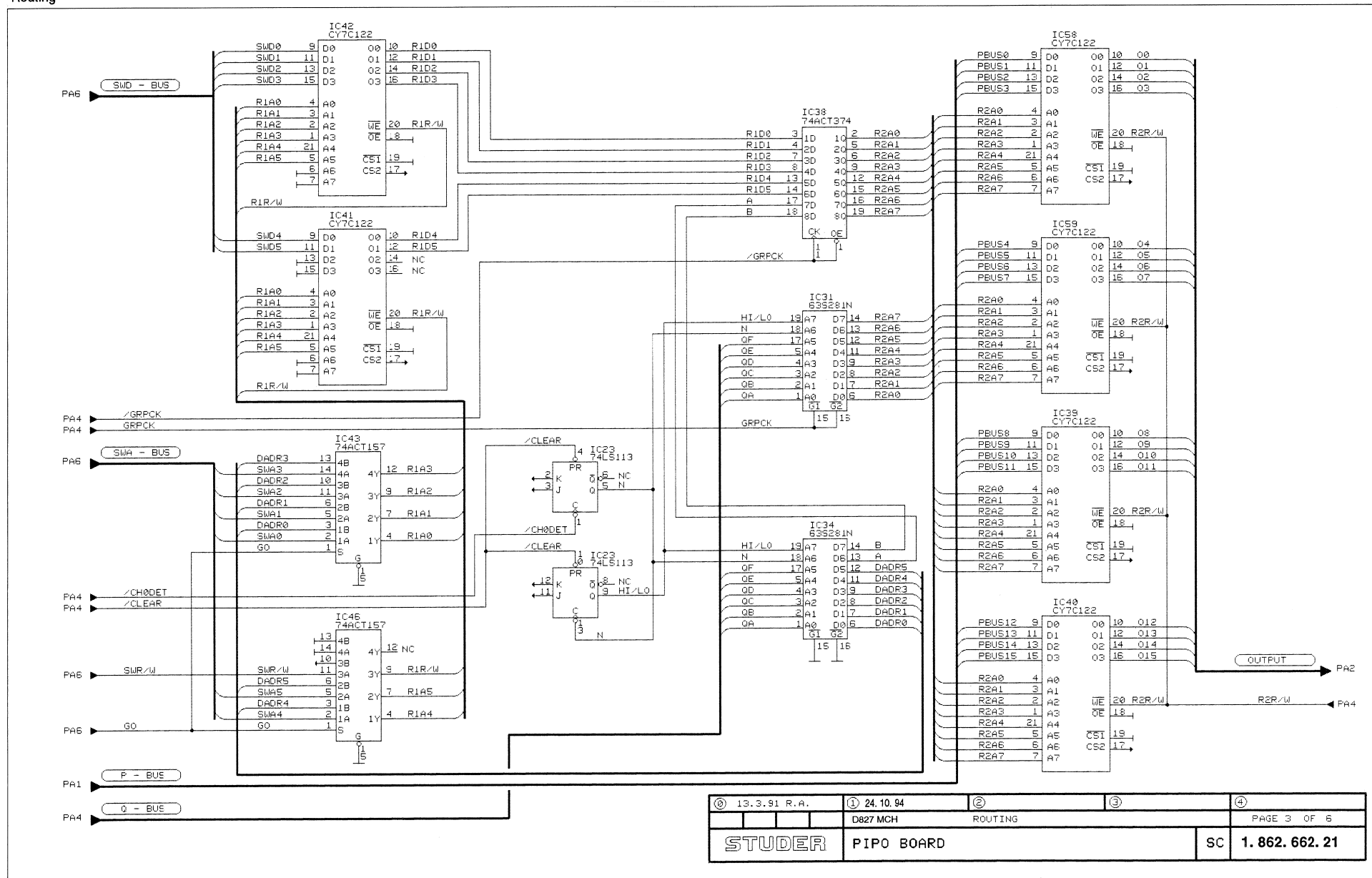
PING PONG BOARD 1.862.662.21  
-P/S Conversion / Demultiplexing



|  |            |             |              |
|--|------------|-------------|--------------|
| © 13.3.91 R.A.                           | © 24.10.94 | ©           | ©            |
| D827 MCH P/S CONVERSION / DEMULTIPLEXING |            | PAGE 2 OF 6 |              |
| STUDER                                   | PIPO BOARD | SC          | 1.862.662.21 |

PING PONG BOARD 1.862.662.21

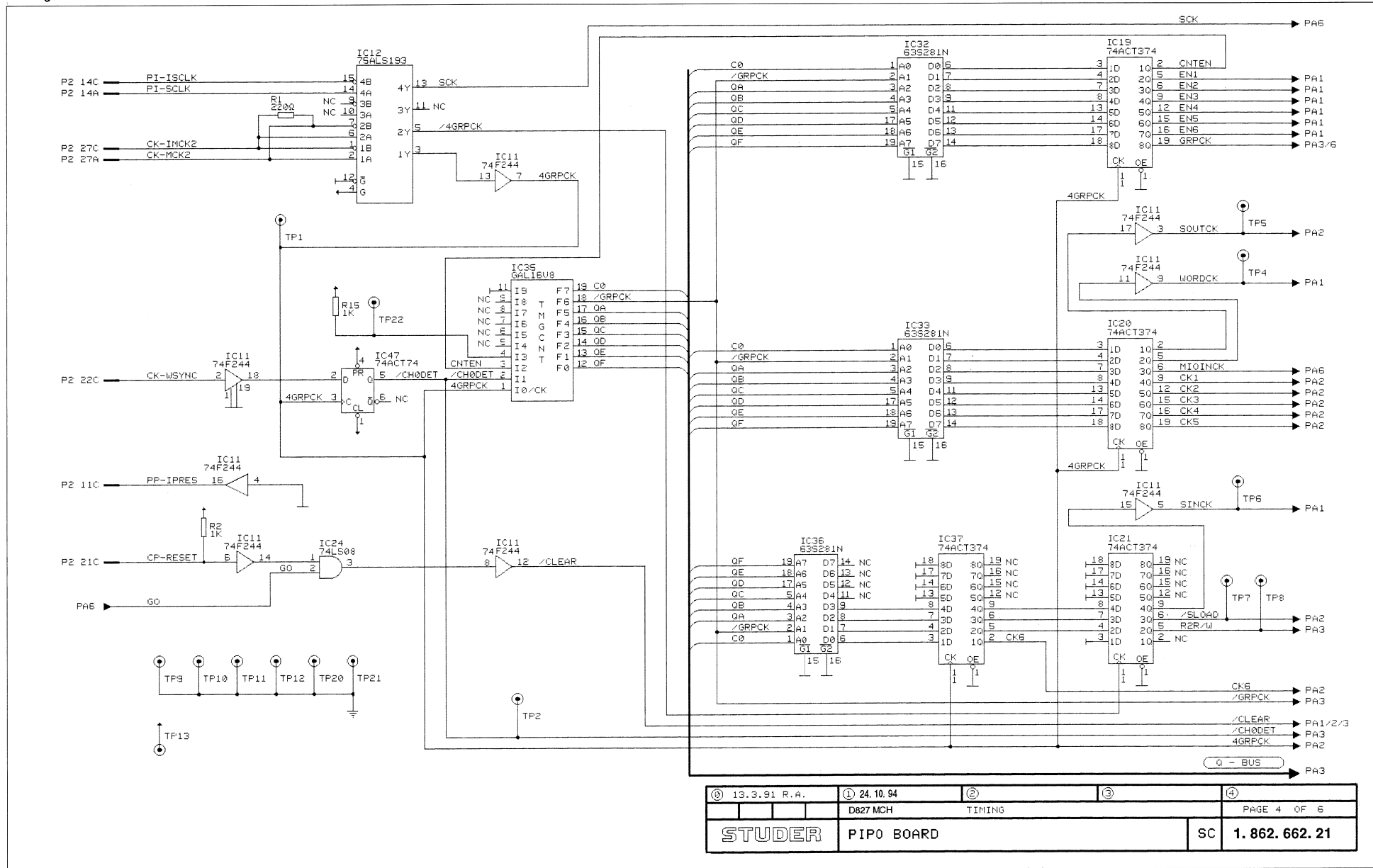
-Routing



|                |            |            |              |
|----------------|------------|------------|--------------|
| ① 13.3.91 R.A. | ② 24.10.94 | ③          | ④            |
| D827 MCH       |            | ROUTING    |              |
| STUDER         |            | PIPO BOARD |              |
|                |            | SC         | 1.862.662.21 |

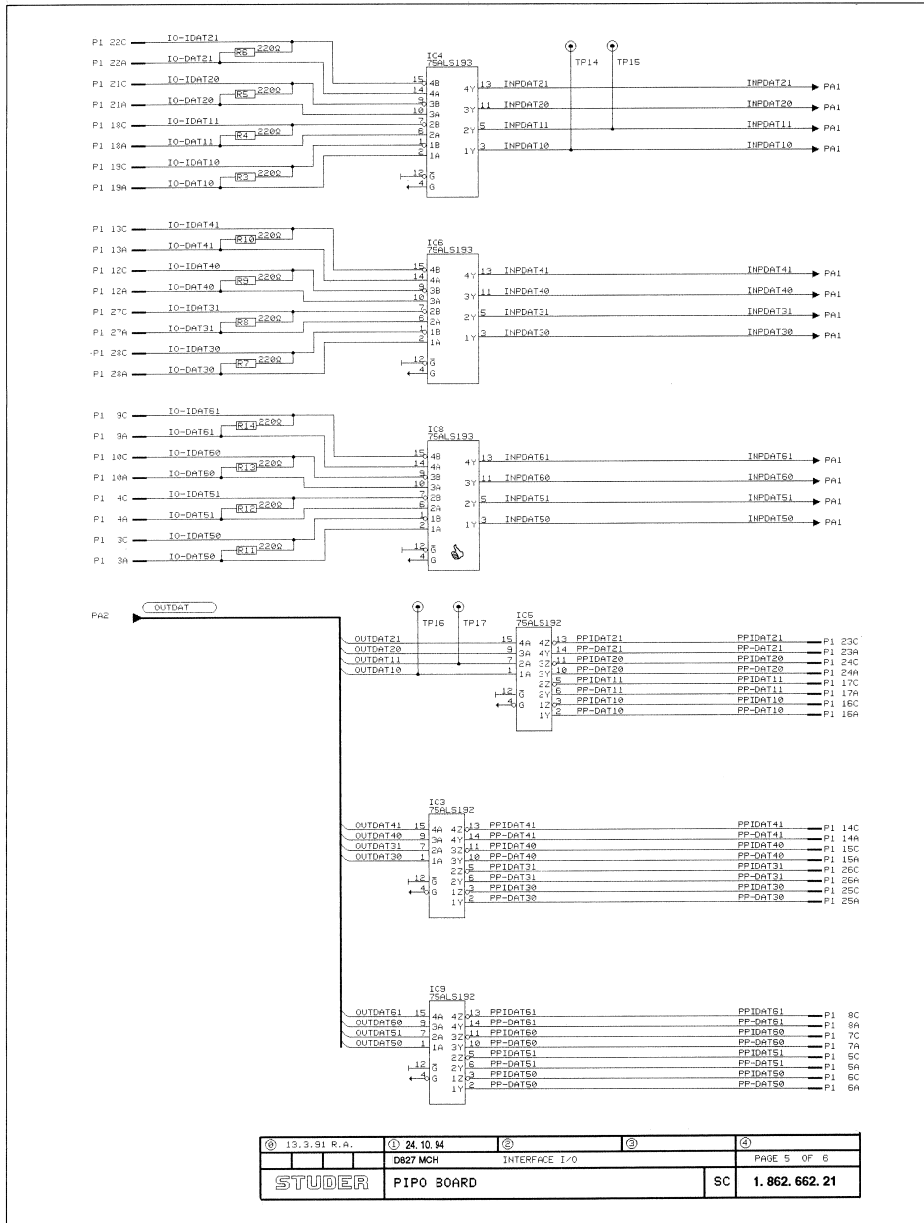
PING PONG BOARD 1.862.662.21

-Timing



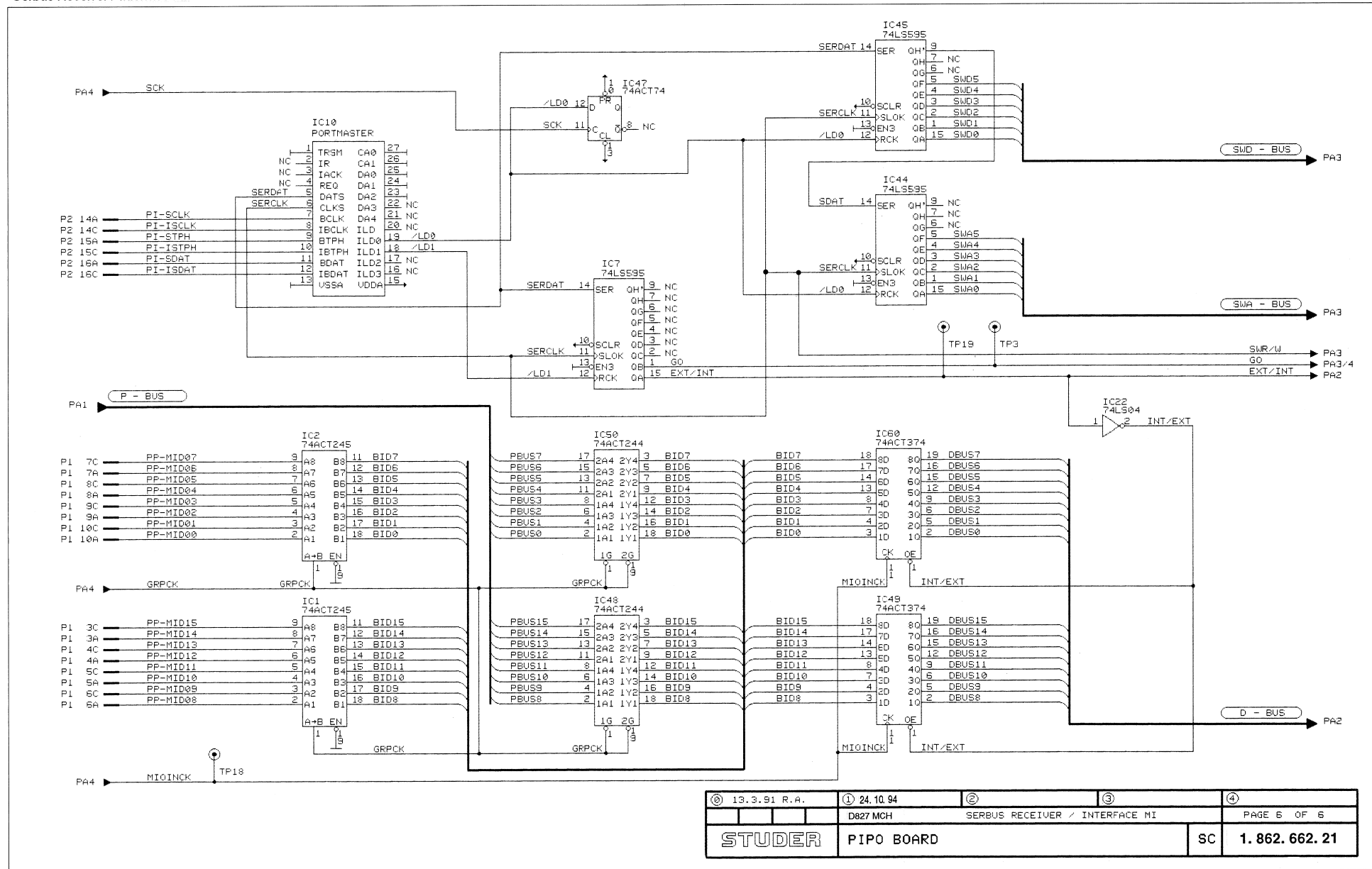
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|----------------|-------------------|--------|-----------|---------------------|
| ① 13.3.91 R.A. | ① 24.10.94        | ②      | ③         | ④                   |
|                | D827 MCH          | TIMING |           | PAGE 4 OF 6         |
| <b>STUDER</b>  | <b>PIPO BOARD</b> |        | <b>SC</b> | <b>1.862.662.21</b> |

PING PONG BOARD 1.862.662.21  
-Interface I/O



|                        |            |            |             |                 |
|------------------------|------------|------------|-------------|-----------------|
| ① 13.3.91 R.A.         | ② 24.10.94 | ③          | ④           | ⑤               |
| STUDER                 |            | PIPO BOARD |             | SC 1.862.662.21 |
| D827 MCH INTERFACE I/O |            |            | PAGE 5 OF 6 |                 |

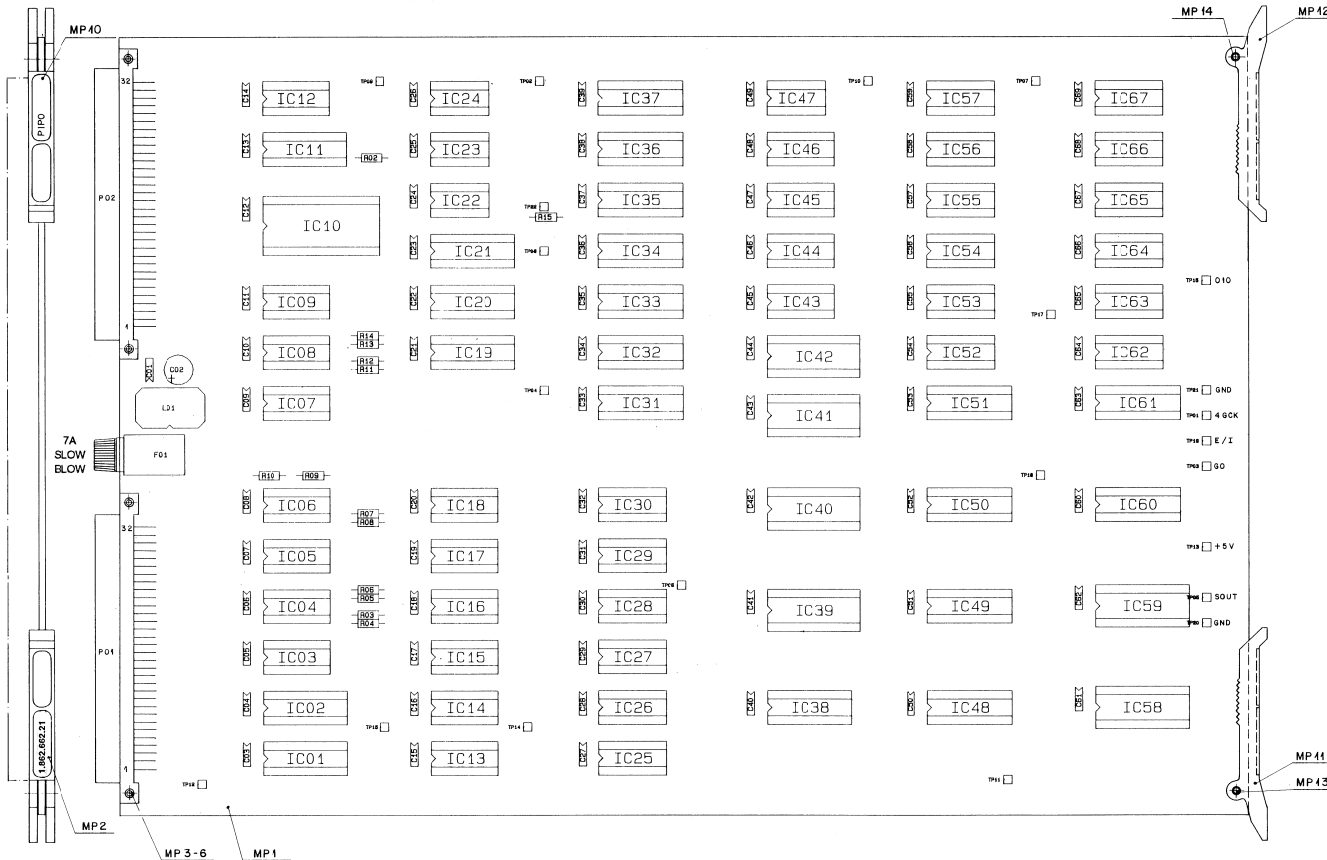
PING PONG BOARD 1.862.662.21  
-Serbus Receiver / Interface MI



|                |            |                                |   |
|----------------|------------|--------------------------------|---|
| ① 13.3.91 R.A. | ② 24.10.94 | ③                              | ④ |
| D827 MCH       |            | SERBUS RECEIVER / INTERFACE MI |   |
| STUDER         |            | PIPO BOARD                     |   |
| SC             |            | 1.862.662.21                   |   |



PING PONG BOARD 1.862.662.21



| No.      | POS. | REF. No.   | DESCRIPTION                | MANUFACTURER |
|----------|------|------------|----------------------------|--------------|
| C....1   |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....2   |      | 59.22.3471 | 470 u -20% 10V EL          | ANY          |
| C....3   |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....4   |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....5   |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....6   |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....7   |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....8   |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....9   |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....10  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....11  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....12  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....13  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....14  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....15  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....16  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....17  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....18  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....19  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....20  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....21  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....22  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....23  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....24  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....25  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....26  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....27  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....28  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....29  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....30  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....31  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....32  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....33  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....34  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....35  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....36  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....37  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....38  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....39  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....40  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....41  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....42  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....43  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....44  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....45  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....46  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....47  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....48  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....49  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....50  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....51  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....52  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....53  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....54  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....55  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....56  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....57  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....58  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....59  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....60  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....61  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....62  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....63  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....64  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....65  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....66  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....67  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....68  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| C....69  |      | 59.06.0683 | 68 n 10% 63V               | ANY          |
| F....1   |      | 51.99.0133 | MINIFUSE 7A                | ANY          |
| IC....1  |      | 50.17.7245 | 74 ACT 245                 | ANY          |
| IC....2  |      | 50.17.7245 | 74 ACT 245                 | ANY          |
| IC....3  |      | 50.15.0109 | AM26 LS 31 PC,DS26 LS33 CN | ANY          |
| IC....4  |      | 50.15.0109 | AM26 LS 33 PC,DS26 LS33 CN | ANY          |
| IC....5  |      | 50.15.0106 | AM26 LS 31 PC,AM26 LS31 CN | ANY          |
| IC....6  |      | 50.15.0109 | AM26 LS 33 PC,DS26 LS33 CN | ANY          |
| IC....7  |      | 50.06.0595 | SN 74 LS 595 N             | ANY          |
| IC....8  |      | 50.15.0109 | AM26 LS 33 PC,DS26 LS33 CN | ANY          |
| IC....9  |      | 50.15.0108 | AM26 LS 31 PC,AM26 LS31 CN | ANY          |
| IC....10 |      | 50.50.0010 | PORTMASTER                 | SE           |
| IC....11 |      | 50.21.0244 | 74 F 244                   | ANY          |
| IC....12 |      | 50.15.0109 | AM26 LS 33 PC,DS26 LS33 CN | ANY          |
| IC....13 |      | 50.06.0595 | SN 74 LS 595 N             | ANY          |
| IC....14 |      | 50.06.0595 | SN 74 LS 595 N             | ANY          |
| IC....15 |      | 50.06.0595 | SN 74 LS 595 N             | ANY          |
| IC....16 |      | 50.06.0595 | SN 74 LS 595 N             | ANY          |
| IC....17 |      | 50.06.0595 | SN 74 LS 595 N             | ANY          |
| IC....18 |      | 50.06.0595 | SN 74 LS 595 N             | ANY          |
| IC....19 |      | 50.17.7374 | 74 ACT 374                 | ANY          |
| IC....20 |      | 50.17.7374 | 74 ACT 374                 | ANY          |
| IC....21 |      | 50.17.7374 | 74 ACT 374                 | ANY          |
| IC....22 |      | 50.06.0004 | SN 74 LS 04 N              | ANY          |
| IC....23 |      | 50.06.0115 | SN 74 LS 115 N             | ANY          |
| IC....24 |      | 50.06.0008 | SN 74 LS 08 N              | ANY          |
| IC....25 |      | 50.06.0595 | SN 74 LS 595 N             | ANY          |
| IC....26 |      | 50.06.0595 | SN 74 LS 595 N             | ANY          |

|      |         |    |          |
|------|---------|----|----------|
| DATE | 26.6.90 | BY | W. Z. G. |
| DATE |         | BY |          |
| DATE |         | BY |          |
| DATE |         | BY |          |
| DATE |         | BY |          |

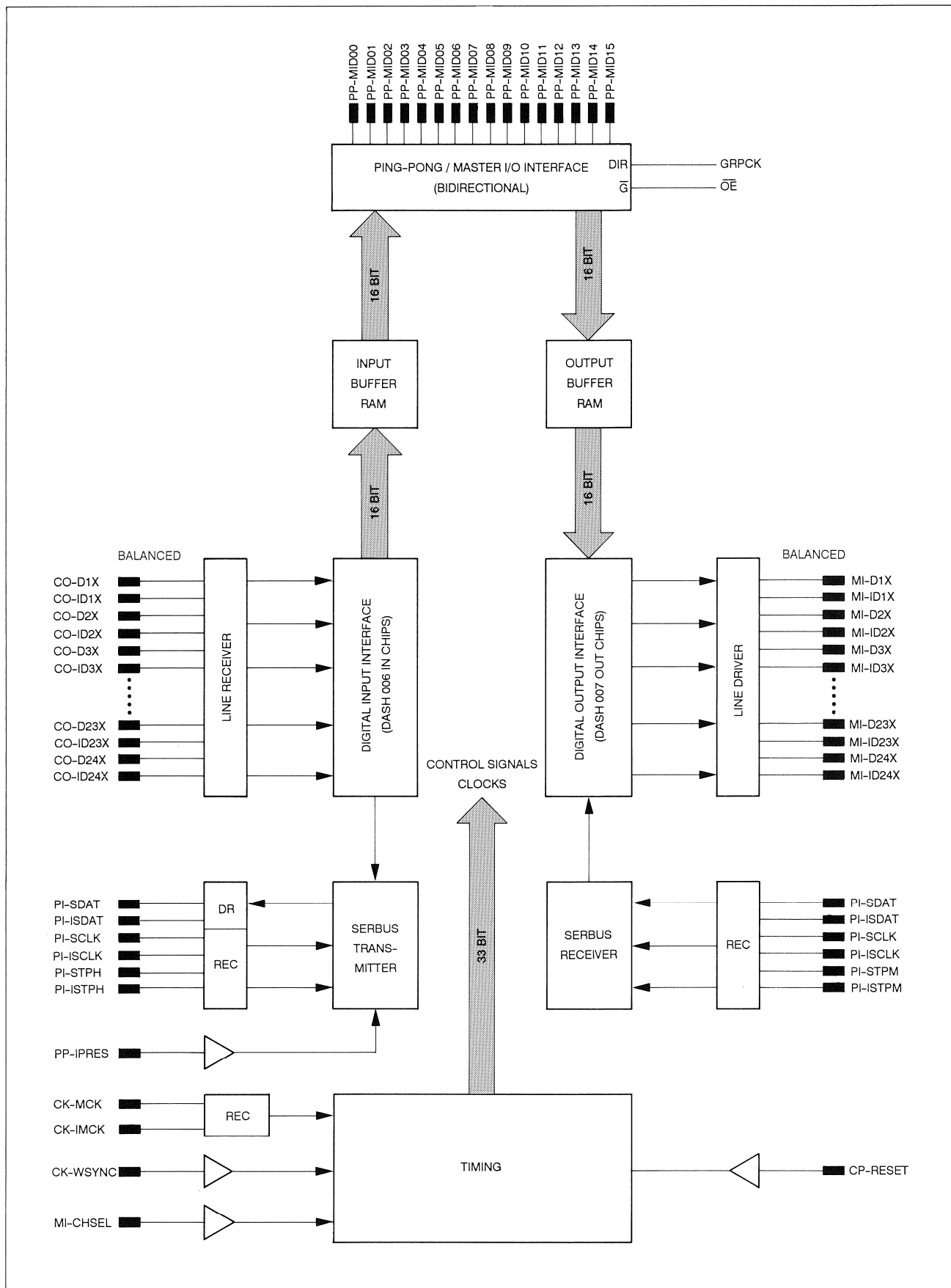
STUDER REGENSDORF ZÜRICH  
 PING PONG ESE  
 1.862.662.21

PING PONG BOARD 1.862.662.21



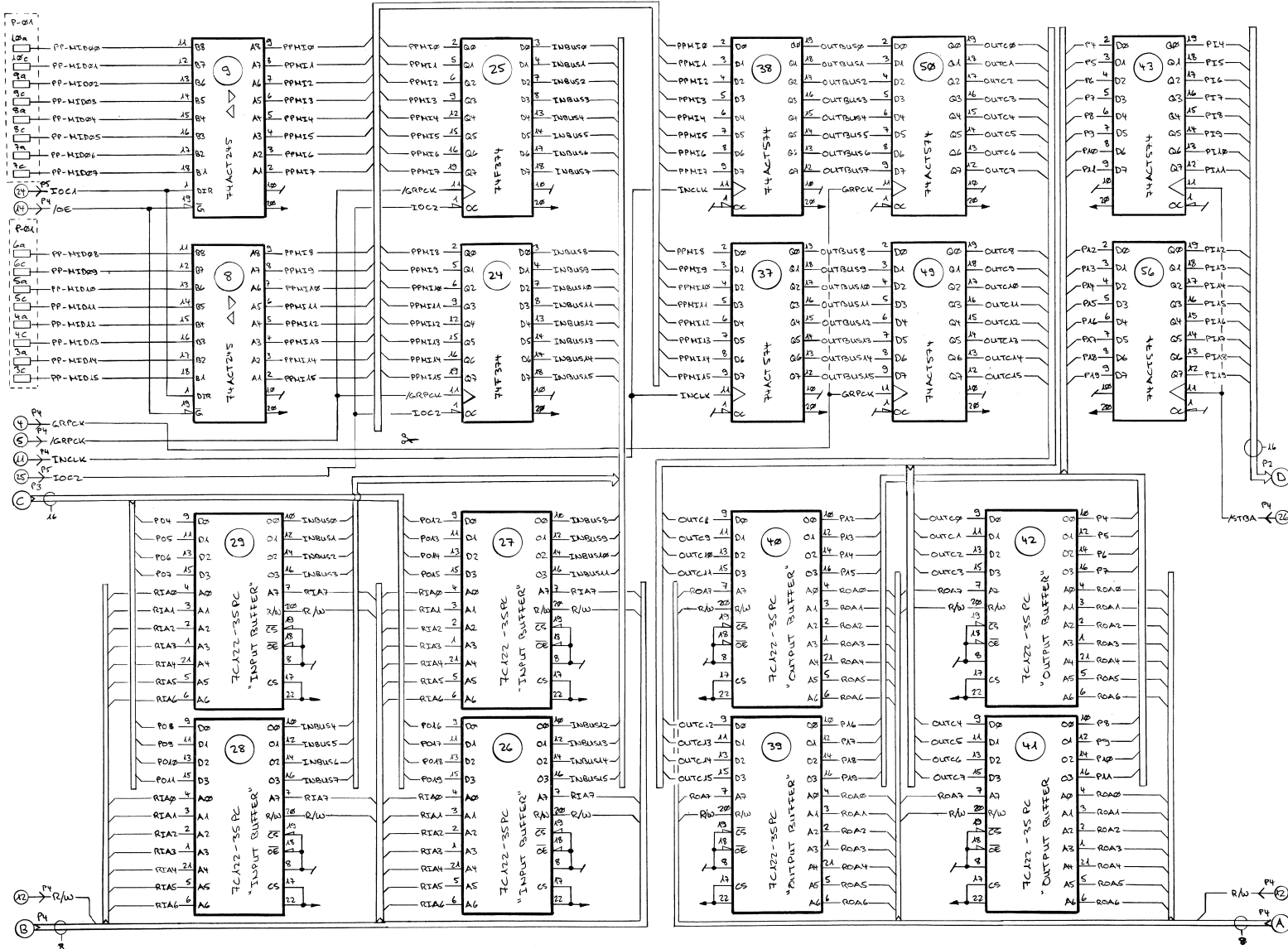
| Id                                  | POS. | REF.No.      | DESCRIPTION                      | MANUFACTURER | Id  | POS. | REF.No. | DESCRIPTION | MANUFACTURER |
|-------------------------------------|------|--------------|----------------------------------|--------------|---|------|---------|-------------|--------------|
| IC...                               | 27   | 50.06.0595   | SN 74 LS 595 N                   | ANY          | MANUFACTURERS:<br>S1 = STUDER / PM = PHILLIPS<br><br>ABBREVIATIONS:<br>CR = CERAMIC / FILM = FILM TYPE / XF = CLMP FOR FUSES /<br>XIC = IC SOCKET<br><br>1.862.662.21 PING-PONG BOARD ML 94/10/2000<br><br>END<br>* |      |         |             |              |
| IC...                               | 28   | 50.06.0595   | SN 74 LS 595 N                   | ANY          |   |      |         |             |              |
| IC...                               | 29   | 50.06.0595   | SN 74 LS 595 N                   | ANY          |   |      |         |             |              |
| IC...                               | 30   | 50.06.0595   | SN 74 LS 595 N                   | ANY          |   |      |         |             |              |
| IC...                               | 31   | 50.14.0114   | TBP 28L 22N (SN 1.862.843.20)    | ANY          |   |      |         |             |              |
| IC...                               | 32   | 50.14.0114   | TBP 28L 22N (SN 1.862.842.20)    | ANY          |   |      |         |             |              |
| IC...                               | 33   | 50.14.0114   | TBP 28L 22N (SN 1.862.844.20)    | ANY          |   |      |         |             |              |
| IC...                               | 34   | 50.14.0114   | TBP 28L 22N (SN 1.862.841.20)    | ANY          |   |      |         |             |              |
| IC...                               | 35   | 50.18.0100   | 16 V 8 - 25 LP (SN 1.862.840.20) | ANY          |   |      |         |             |              |
| IC...                               | 36   | 50.14.0114   | TEX 28L 22N (SN 1.862.845.20)    | ANY          |   |      |         |             |              |
| IC...                               | 37   | 50.17.7374   | 74 ACT 374                       | ANY          |   |      |         |             |              |
| IC...                               | 38   | 50.17.7374   | 74 ACT 374                       | ANY          |   |      |         |             |              |
| IC...                               | 39   | 50.14.0127   | P 93 U 422 - 35 PC               | ANY          |   |      |         |             |              |
| IC...                               | 40   | 50.14.0127   | P 93 U 422 - 35 PC               | ANY          |   |      |         |             |              |
| IC...                               | 41   | 50.14.0127   | P 93 U 422 - 35 PC               | ANY          |   |      |         |             |              |
| IC...                               | 42   | 50.14.0127   | P 93 U 422 - 35 PC               | ANY          |   |      |         |             |              |
| IC...                               | 43   | 50.17.7157   | 74 ACT 157                       | ANY          |   |      |         |             |              |
| IC...                               | 44   | 50.06.0595   | SN 74 LS 595 N                   | ANY          |   |      |         |             |              |
| IC...                               | 45   | 50.06.0595   | SN 74 LS 595 N                   | ANY          |   |      |         |             |              |
| IC...                               | 46   | 50.17.7157   | 74 ACT 157                       | ANY          |   |      |         |             |              |
| IC...                               | 47   | 50.17.7074   | 74 ACT 74                        | ANY          |   |      |         |             |              |
| IC...                               | 48   | 50.17.7244   | 74 ACT 244                       | ANY          |   |      |         |             |              |
| IC...                               | 49   | 50.17.7374   | 74 ACT 374                       | ANY          |   |      |         |             |              |
| IC...                               | 50   | 50.17.7244   | 74 ACT 244                       | ANY          |   |      |         |             |              |
| IC...                               | 51   | 50.17.7374   | 74 ACT 374                       | ANY          |   |      |         |             |              |
| IC...                               | 52   | 50.06.0597   | SN 74 LS 597 N                   | ANY          |   |      |         |             |              |
| IC...                               | 53   | 50.06.0597   | SN 74 LS 597 N                   | ANY          |   |      |         |             |              |
| IC...                               | 54   | 50.06.0597   | SN 74 LS 597 N                   | ANY          |   |      |         |             |              |
| IC...                               | 55   | 50.06.0597   | SN 74 LS 597 N                   | ANY          |   |      |         |             |              |
| IC...                               | 56   | 50.06.0597   | SN 74 LS 597 N                   | ANY          |   |      |         |             |              |
| IC...                               | 57   | 50.06.0597   | SN 74 LS 597 N                   | ANY          |   |      |         |             |              |
| IC...                               | 58   | 50.14.0127   | P 93 U 422 - 35 PC               | ANY          |   |      |         |             |              |
| IC...                               | 59   | 50.14.0127   | P 93 U 422 - 35 PC               | ANY          |   |      |         |             |              |
| IC...                               | 60   | 50.17.7374   | 74 ACT 374                       | ANY          |   |      |         |             |              |
| IC...                               | 61   | 50.17.7374   | 74 ACT 374                       | ANY          |   |      |         |             |              |
| IC...                               | 62   | 50.06.0597   | SN 74 LS 597 N                   | ANY          |   |      |         |             |              |
| IC...                               | 63   | 50.06.0597   | SN 74 LS 597 N                   | ANY          |   |      |         |             |              |
| IC...                               | 64   | 50.06.0597   | SN 74 LS 597 N                   | ANY          |   |      |         |             |              |
| IC...                               | 65   | 50.06.0597   | SN 74 LS 597 N                   | ANY          |   |      |         |             |              |
| IC...                               | 66   | 50.06.0597   | SN 74 LS 597 N                   | ANY          |   |      |         |             |              |
| IC...                               | 67   | 50.06.0597   | SN 74 LS 597 N                   | ANY          |   |      |         |             |              |
| L....                               | 1    | 62.03.0030   | 110 uH, 3 A                      | ANY          |   |      |         |             |              |
| MP...                               | 1    | 1.862.662.11 | PING PONG PCB                    | ANY          |   |      |         |             |              |
| MP...                               | 2    | 1.862.662.01 | ETIKETTE                         | St           |   |      |         |             |              |
| MP...                               | 3    | 28.99.0119   | ROHRNIELE D 2.5*0.15* 10         | ANY          |   |      |         |             |              |
| MP...                               | 4    | 28.99.0119   | ROHRNIELE D 2.5*0.15* 10         | ANY          |   |      |         |             |              |
| MP...                               | 5    | 28.99.0119   | ROHRNIELE D 2.5*0.15* 10         | ANY          |   |      |         |             |              |
| MP...                               | 6    | 28.99.0119   | ROHRNIELE D 2.5*0.15* 10         | ANY          |   |      |         |             |              |
| MP...                               | 7    | 1.101.001.21 | TEXT-ETIK. 5*20 HARDWARE -21     | St           |   |      |         |             |              |
| MP...                               | 8    | 43.01.0108   | ESE-WARNschild                   | ANY          |   |      |         |             |              |
| MP...                               | 9    | 1.010.130.51 | TEXT-ETIK. 5*20 (F7.00A)         | St           |   |      |         |             |              |
| MP...                               | 10   | 1.862.662.02 | LABEL *P1P0*                     | St           |   |      |         |             |              |
| MP...                               | 11   | 1.862.650.05 | AUSWERFERNEBEL                   | St           |   |      |         |             |              |
| MP...                               | 12   | 1.862.650.05 | AUSWERFERNEBEL                   | St           |   |      |         |             |              |
| MP...                               | 13   | 1.862.650.06 | AUSWERFERSTIFT                   | St           |   |      |         |             |              |
| MP...                               | 14   | 1.862.650.06 | AUSWERFERSTIFT                   | St           |   |      |         |             |              |
| P....                               | 1    | 54.01.0358   | LEISTE 3 * 32 EURO PRINT         | ANY          |   |      |         |             |              |
| P....                               | 2    | 54.01.0358   | LEISTE 3 * 32 EURO PRINT         | ANY          |   |      |         |             |              |
| R....                               | 2    | 57.11.3102   | 1 k 1%                           | ANY          |   |      |         |             |              |
| R....                               | 3    | 57.11.3221   | 220 1%                           | ANY          |   |      |         |             |              |
| R....                               | 4    | 57.11.3221   | 220 1%                           | ANY          |   |      |         |             |              |
| R....                               | 5    | 57.11.3221   | 220 1%                           | ANY          |   |      |         |             |              |
| R....                               | 6    | 57.11.3221   | 220 1%                           | ANY          |   |      |         |             |              |
| R....                               | 7    | 57.11.3221   | 220 1%                           | ANY          |   |      |         |             |              |
| R....                               | 8    | 57.11.3221   | 220 1%                           | ANY          |   |      |         |             |              |
| R....                               | 9    | 57.11.3221   | 220 1%                           | ANY          |   |      |         |             |              |
| R....                               | 10   | 57.11.3221   | 220 1%                           | ANY          |   |      |         |             |              |
| R....                               | 11   | 57.11.3221   | 220 1%                           | ANY          |   |      |         |             |              |
| R....                               | 12   | 57.11.3221   | 220 1%                           | ANY          |   |      |         |             |              |
| R....                               | 13   | 57.11.3221   | 220 1%                           | ANY          |   |      |         |             |              |
| R....                               | 14   | 57.11.3221   | 220 1%                           | ANY          |   |      |         |             |              |
| R....                               | 15   | 57.11.3102   | 1 k 1%                           | ANY          |   |      |         |             |              |
| TP...                               | 1    | 54.02.0320   | FLACH 2.8*0.8 **QTY 22 *****     | ANY          |   |      |         |             |              |
| W....                               | 1    | 1.010.107.64 | Wire                             | ANY          |   |      |         |             |              |
| XIC..                               | 31   | 53.03.0185   | DIL 20-POL, LOET                 | ANY          |   |      |         |             |              |
| XIC..                               | 32   | 53.03.0185   | DIL 20-POL, LOET                 | ANY          |   |      |         |             |              |
| XIC..                               | 33   | 53.03.0185   | DIL 20-POL, LOET                 | ANY          |   |      |         |             |              |
| XIC..                               | 34   | 53.03.0185   | DIL 20-POL, LOET                 | ANY          |   |      |         |             |              |
| XIC..                               | 35   | 53.03.0185   | DIL 20-POL, LOET                 | ANY          |   |      |         |             |              |
| XIC..                               | 36   | 53.03.0185   | DIL 20-POL, LOET                 | ANY          |   |      |         |             |              |
| XIC..                               | 39   | 53.03.0183   | DIL 22-POL, LOET                 | ANY          |   |      |         |             |              |
| XIC..                               | 40   | 53.03.0183   | DIL 22-POL, LOET                 | ANY          |   |      |         |             |              |
| XIC..                               | 41   | 53.03.0183   | DIL 22-POL, LOET                 | ANY          |   |      |         |             |              |
| XIC..                               | 42   | 53.03.0183   | DIL 22-POL, LOET                 | ANY          |   |      |         |             |              |
| XIC..                               | 58   | 53.03.0183   | DIL 22-POL, LOET                 | ANY          |   |      |         |             |              |
| XIC..                               | 59   | 53.03.0183   | DIL 22-POL, LOET                 | ANY          |   |      |         |             |              |
| REMARKS:                            |      |              |                                  |              |   |      |         |             |              |
| Modification: Reading into the ADAM |      |              |                                  |              |   |      |         |             |              |

**BLOCK DIAGRAM**  
Master I / O Board 1.862.663 (OPTION)



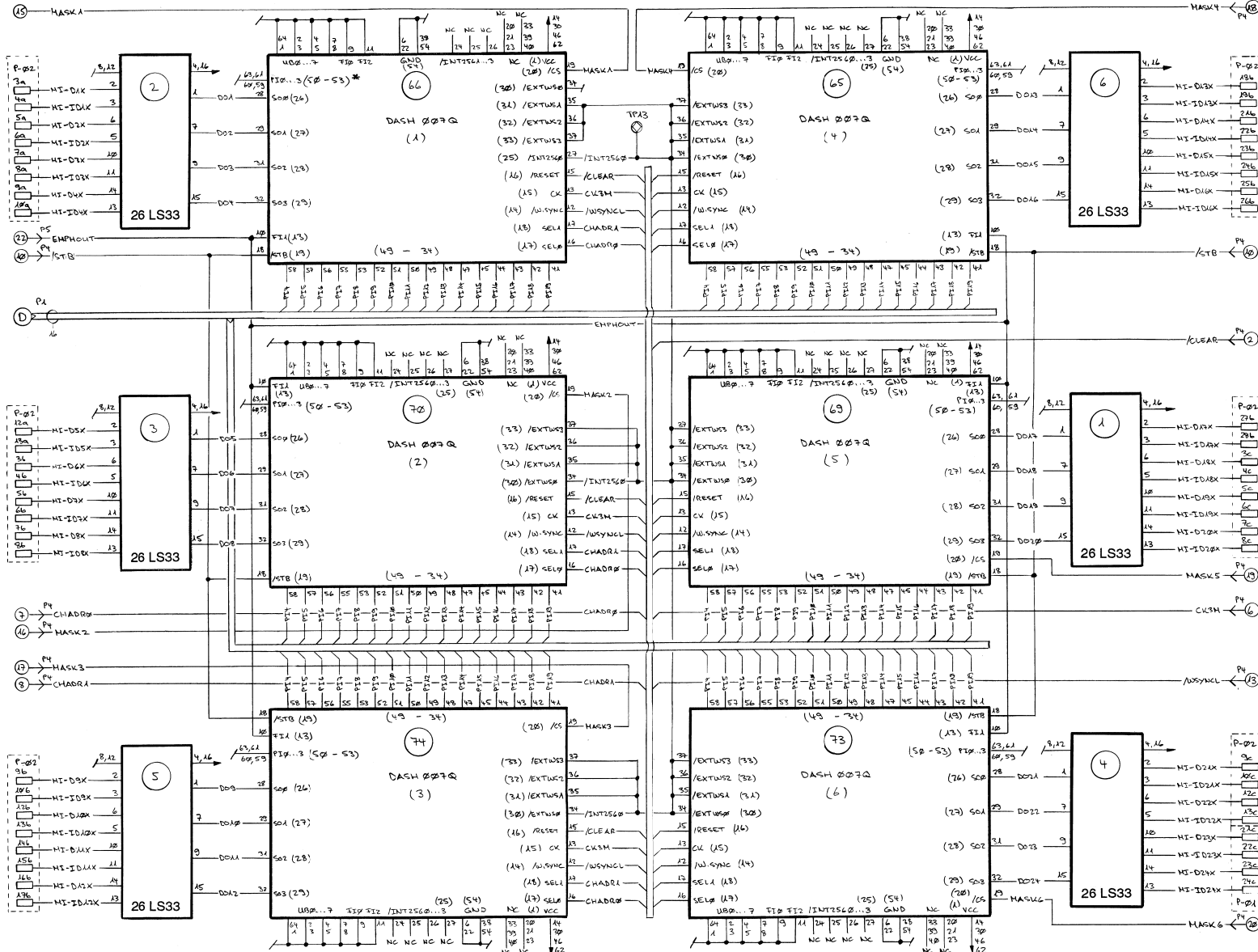


MASTER I / O BOARD 1.862.663.20 (OPTION)  
-Ping Pong Master Interface Input / Output Buffer



MASTER I / O BOARD 1.862.663.20 (OPTION)

-Digital Output



\* Pinnummern in Klammern beziehen sich auf die Pins der Backlogs. (Ohne Klammer = Pinnummer des Sony IC)

PAGE 2 OF 5

1.862.663.20

SC

STUDER

DIGITAL OUTPUT

MASTER I/O BOARD

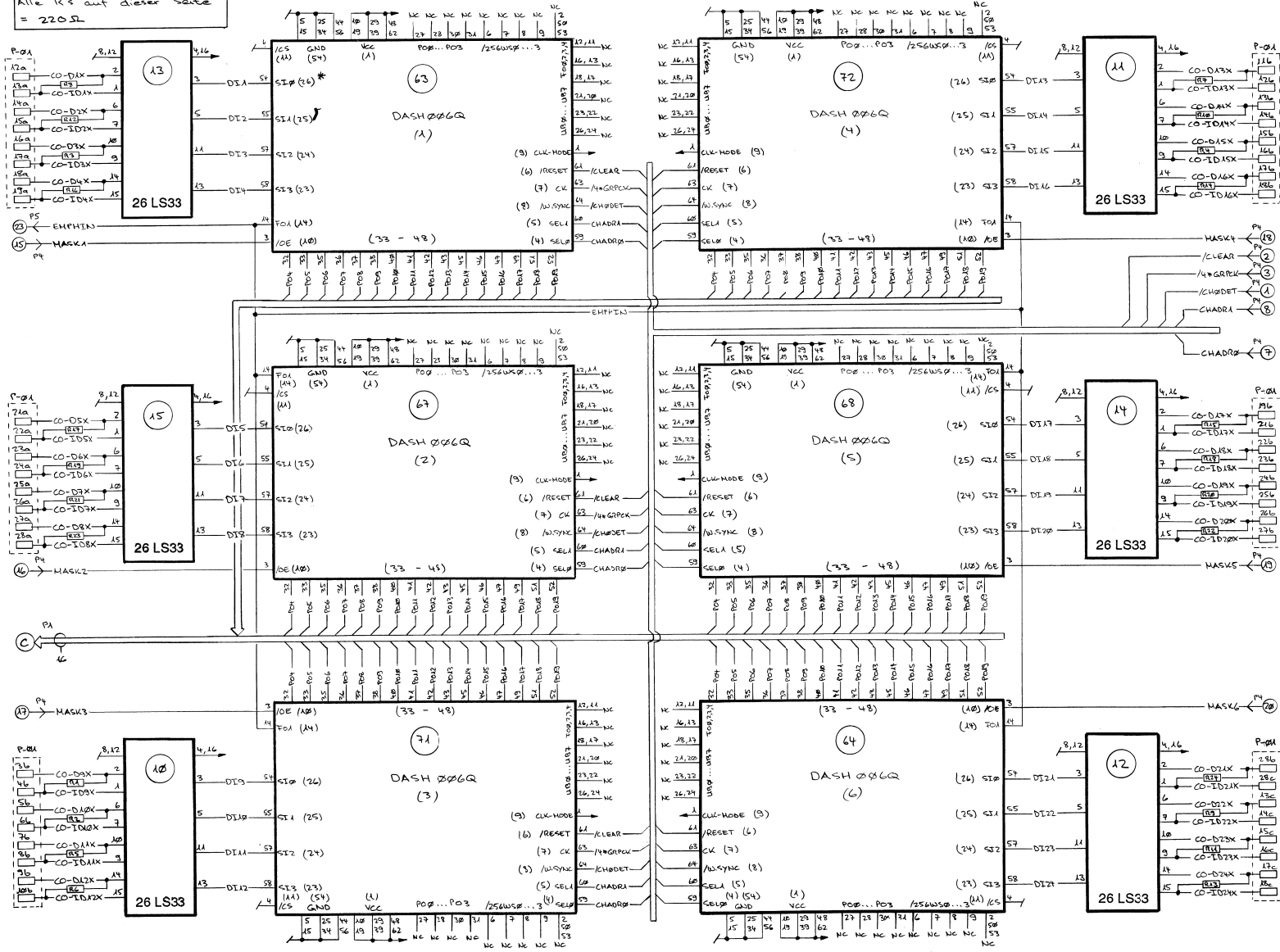
DH

1.862.663.20

MASTER I / O BOARD 1.862.663.20 (OPTION)  
-Digital Input

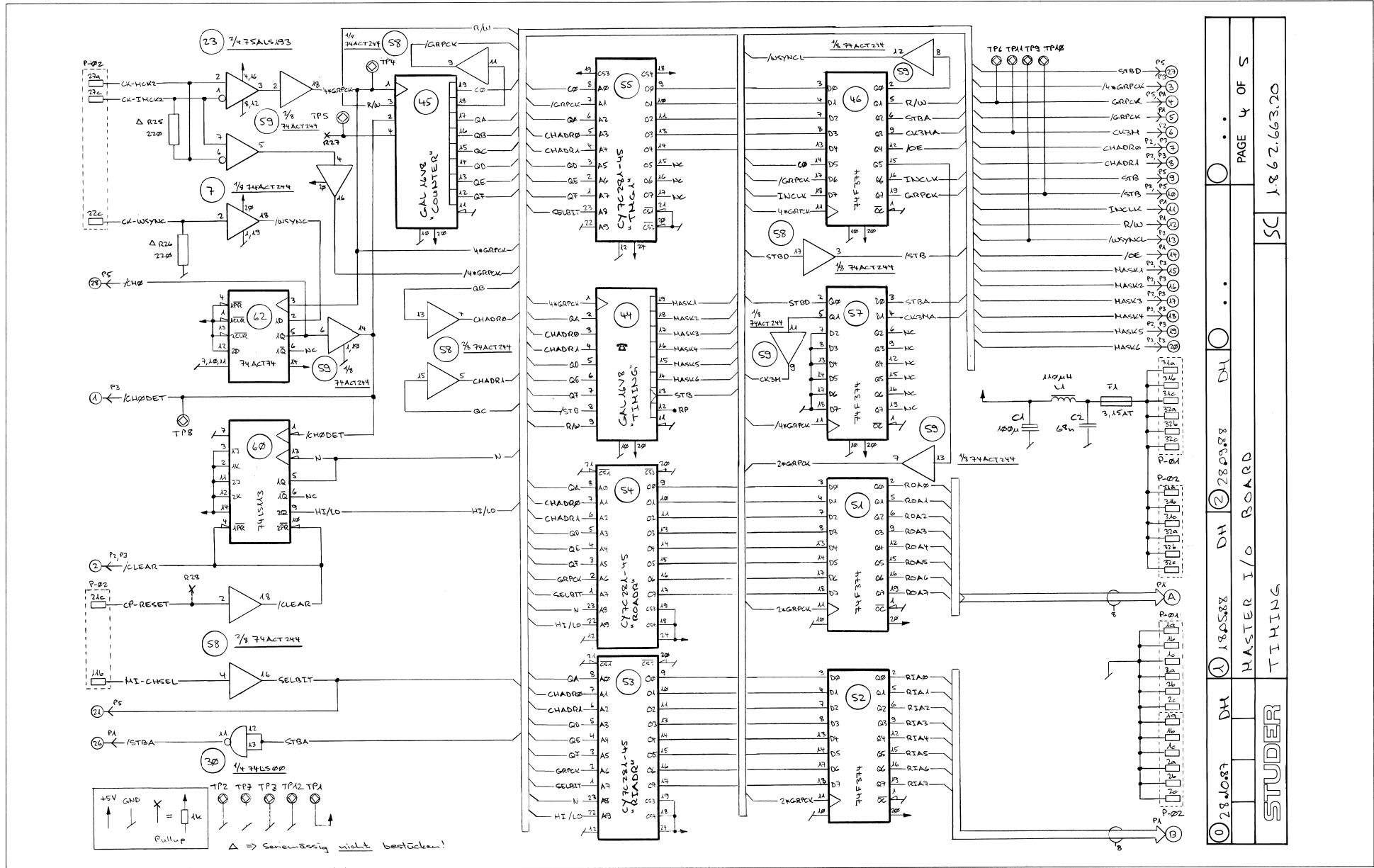


Alle R's auf dieser Seite  
= 220Ω



\* Pinnummern in Klammern beziehen sich auf die Plus des Backtags. (Ohne Klammer = Pinnummer des Gary IC)

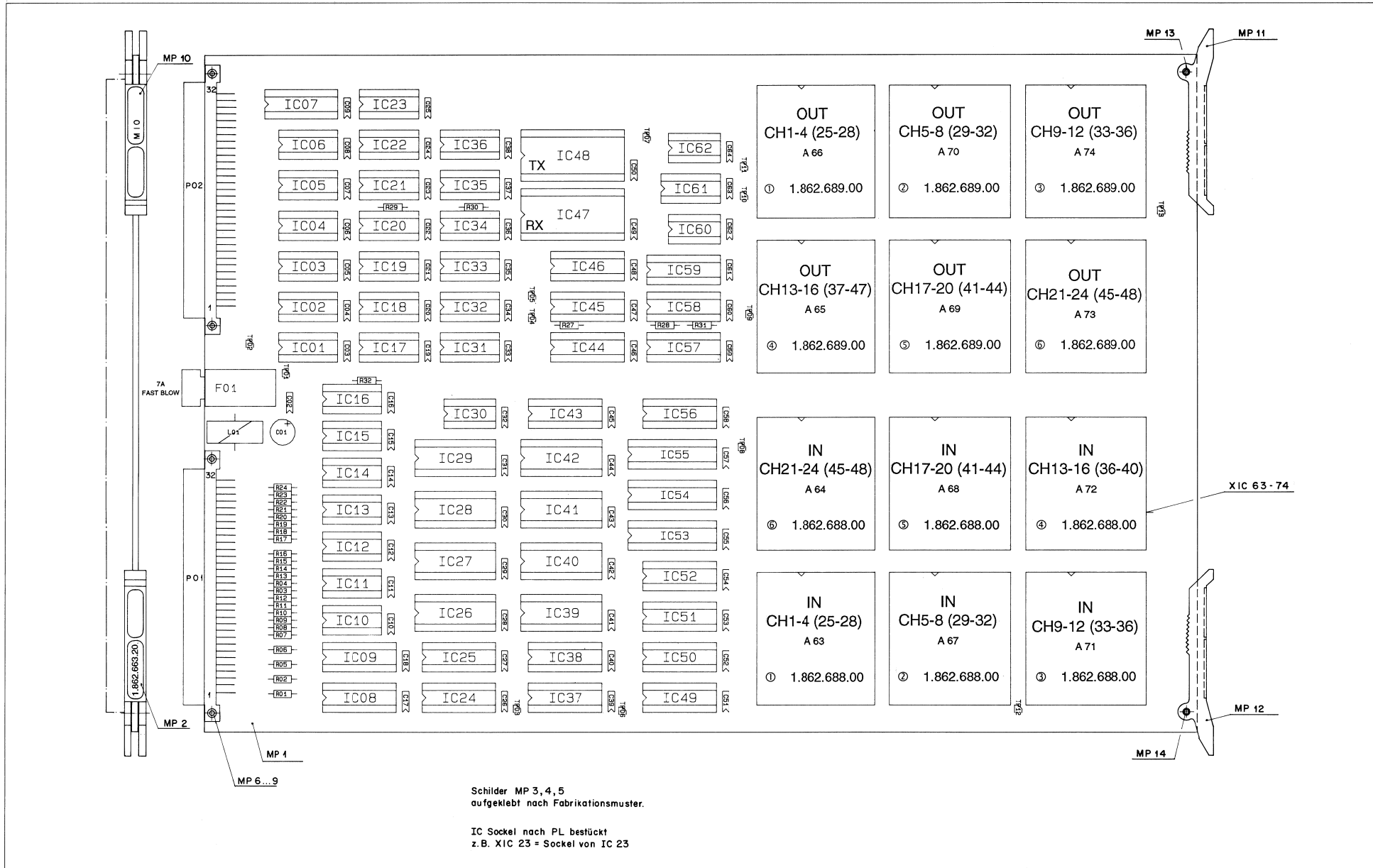
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|------------------|----|--------|----|---------------|----|
| 13.827           | DH | 180588 | DH | 1862.663.20   | SC |
| MASTER I/O BOARD |    |        |    | DIGITAL INPUT |    |
| STUDER           |    |        |    |               |    |
| PAGE 3 OF 5      |    |        |    |               |    |



|          |    |        |    |        |    |     |                  |
|----------|----|--------|----|--------|----|-----|------------------|
| 028.4087 | DH | 186288 | DH | 280988 | DH | ... | PAGE 4 OF 5      |
|          |    |        |    |        |    |     | SC 1.862.663.20  |
|          |    |        |    |        |    |     | STUDER           |
|          |    |        |    |        |    |     | MASTER I/O BOARD |

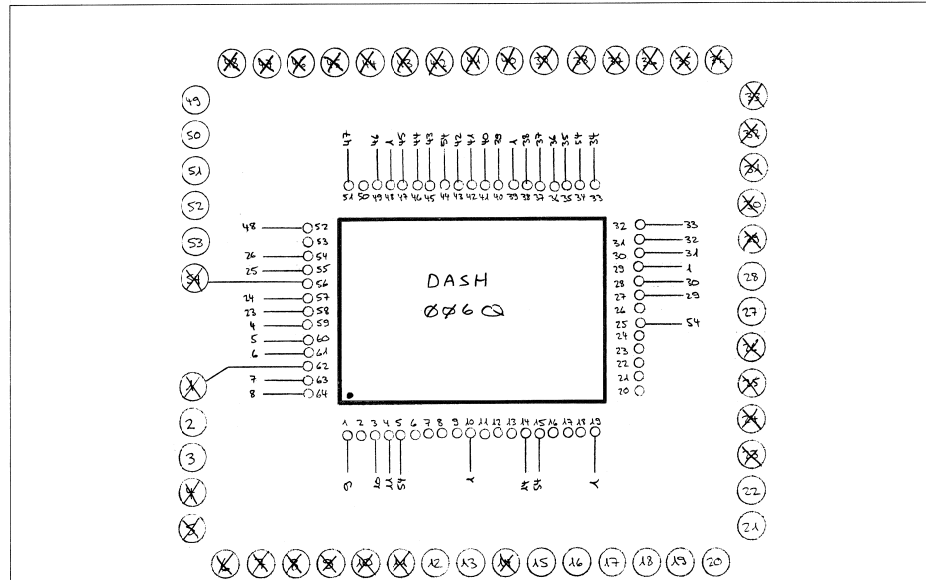


MASTER I / O BOARD 1.862.663.20 (OPTION)

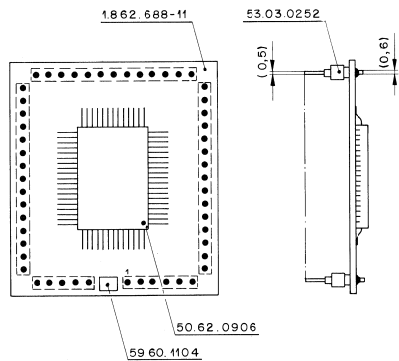




MASTER I / O INPUT BACKBAG 1.862.688.00



|          |                   |      |    |              |             |  |  |  |  |
|----------|-------------------|------|----|--------------|-------------|--|--|--|--|
| 08.06.88 | DH                |      |    |              |             |  |  |  |  |
| D820 MCH |                   |      |    |              | PAGE 1 OF 1 |  |  |  |  |
| STUDER   | MIO Input Backbag | MIB6 | SC | 1.862.688-00 |             |  |  |  |  |



| Ad | POS. | REF.No. | DESCRIPTION  | MANUFACTURER         |     |
|----|------|---------|--------------|----------------------|-----|
| C  | ...  | 1       | 59.60.1104   | 100 n 10%            | ANY |
| IC | ...  | 1       | 50.62.0906   | DASH 006Q            | So  |
| MP | ...  | 1       | 1.862.688.11 | MIB6 PCB             | St  |
| MP | ...  | 2       | 43.01.0108   | ESE-MARKSCHILD       | ANY |
| MP | ...  | 3       | 1.862.688.01 | NR.-ETIKETTE 5 * 20  | ANY |
| PS | ...  | 1       | 53.03.0252   | STIFFLEISTE** QTY 54 | ANY |

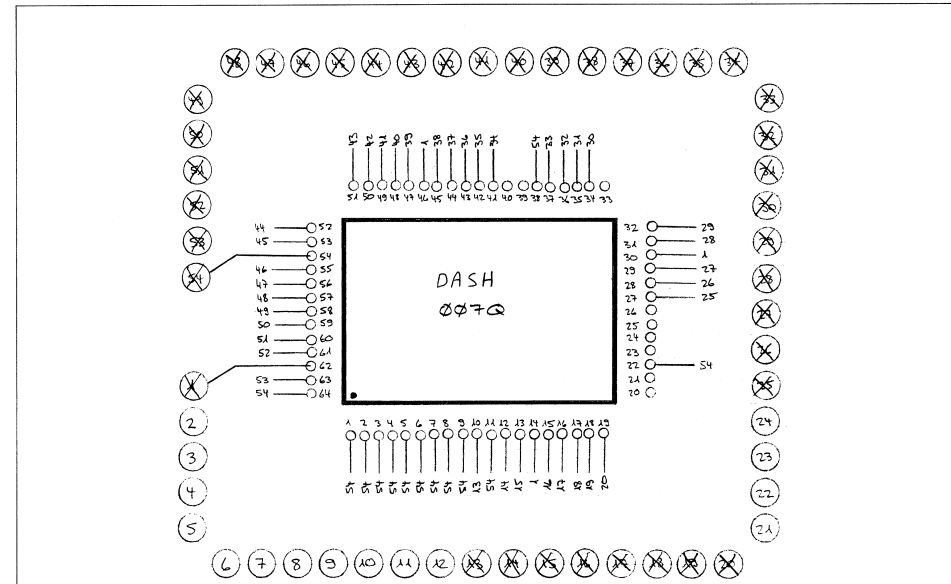
REMARKS: SERIEVERSION FREIGABE 13.04.89

MANUFACTURERS:  
St = STUDER / Ph = PHILIPS / So = SONY

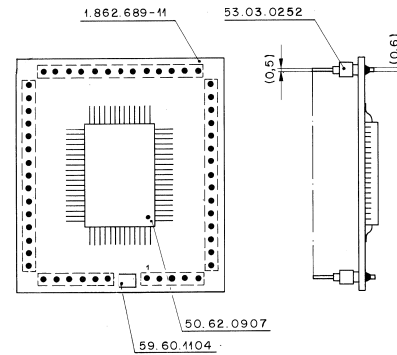
ABBREVIATIONS:  
CER = CERAMIC / FILM = FILM TYPE / XF = CLAMP FOR FUSES /  
XIC = IC SOCKET

1.862.688.00 MIO INPUT BACKBAG ZT 89/02/2300

MASTER I / O OUTPUT BACKBAG 1.862.689.00



|          |                    |      |    |              |             |  |  |  |  |
|----------|--------------------|------|----|--------------|-------------|--|--|--|--|
| 08.06.88 | DH                 |      |    |              |             |  |  |  |  |
| D820 MCH |                    |      |    |              | PAGE 1 OF 1 |  |  |  |  |
| STUDER   | MIO Output Backbag | MOB6 | SC | 1.862.689-00 |             |  |  |  |  |



| Ad | POS. | REF.No. | DESCRIPTION  | MANUFACTURER           |     |
|----|------|---------|--------------|------------------------|-----|
| C  | ...  | 1       | 59.60.1104   | 100 n 10%              | ANY |
| IC | ...  | 1       | 50.62.0907   | DASH 0070              | So  |
| MP | ...  | 1       | 1.862.689.11 | MOB6 PCB               | St  |
| MP | ...  | 2       | 43.01.0108   | ESE-MARKSCHILD         | ANY |
| MP | ...  | 3       | 1.862.689.01 | NR.-ETIKETTE 5 * 20    | ANY |
| PS | ...  | 1       | 53.03.0252   | P STIFFLEISTE** QTY 54 | ANY |

REMARKS: SERIEVERSION FREIGABE: 13.04.89

MANUFACTURERS:  
St = STUDER / Ph = PHILIPS / So = SONY

ABBREVIATIONS:  
CER = CERAMIC / FILM = FILM TYPE / XF = CLAMP FOR FUSES /  
XIC = IC SOCKET

1.862.689.00 MIO OUTPUT BACKBAG ZT 89/02/2300

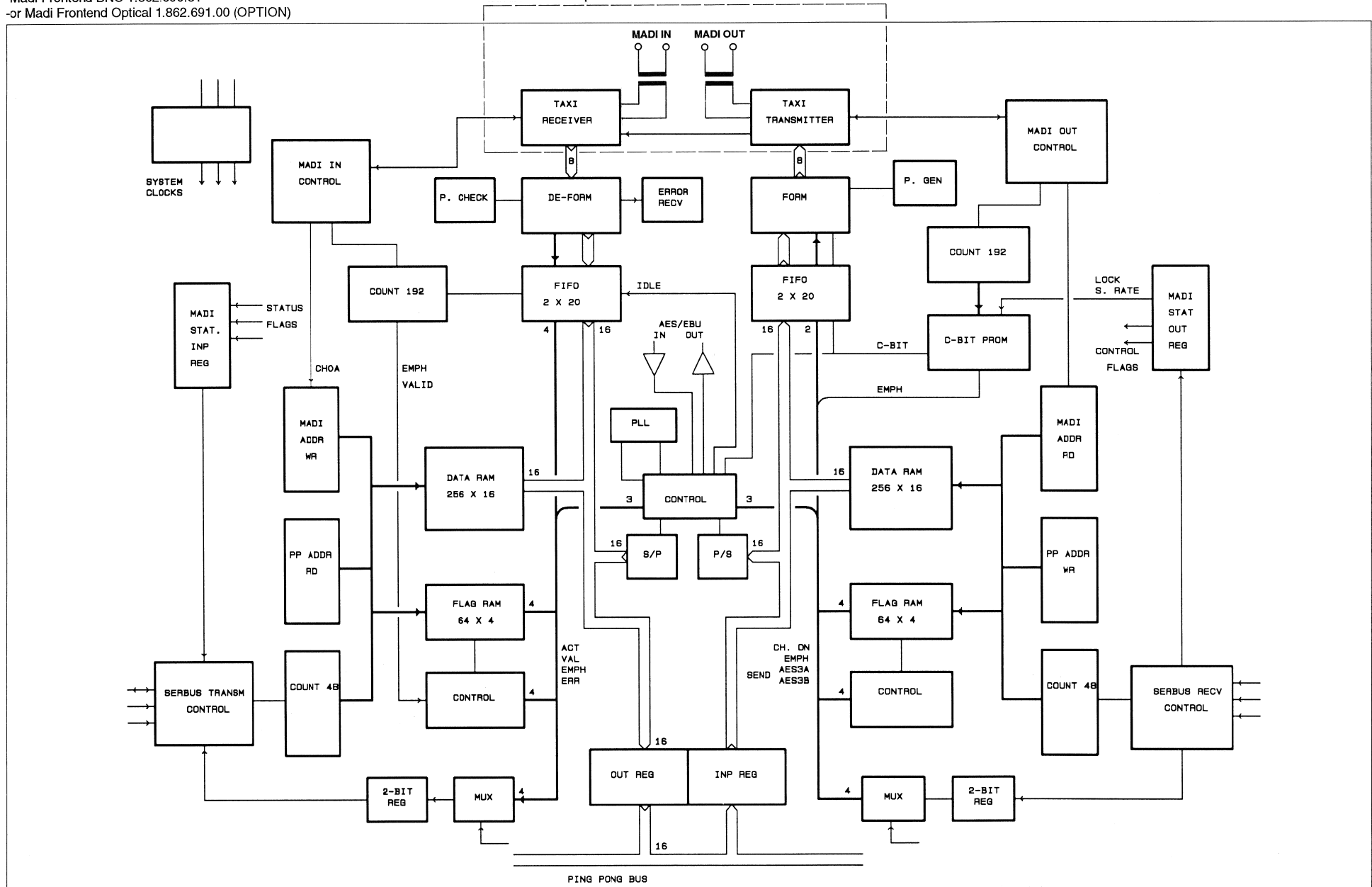


STUDER D827 MCH

BLOCK DIAGRAM

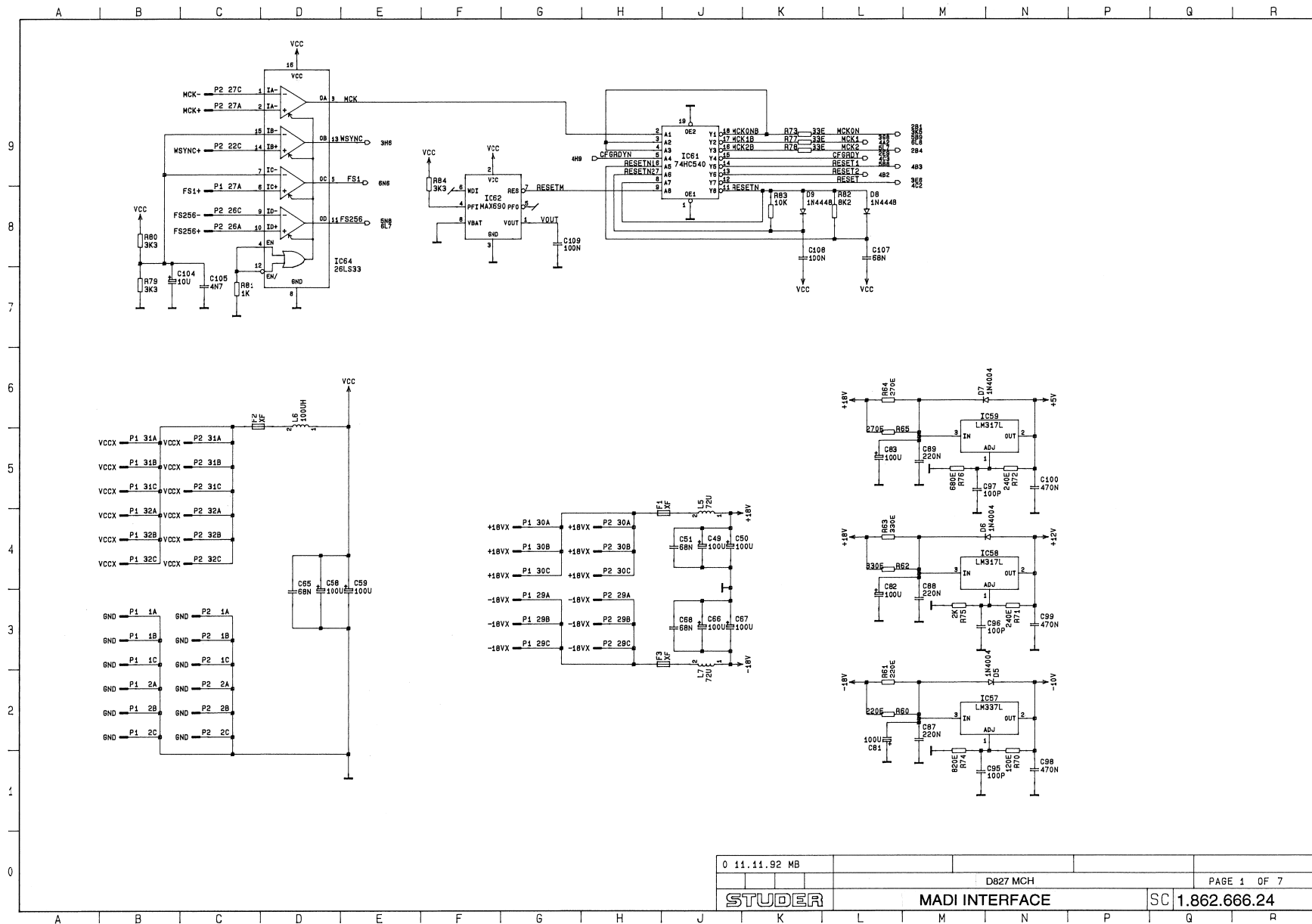
- Madi Interface 1.862.666
- Madi Frontend BNC 1.862.690.81
- or Madi Frontend Optical 1.862.691.00 (OPTION)

- Madi Frontend BNC 1.862.690
- Madi Frontend Optical 1.862.691



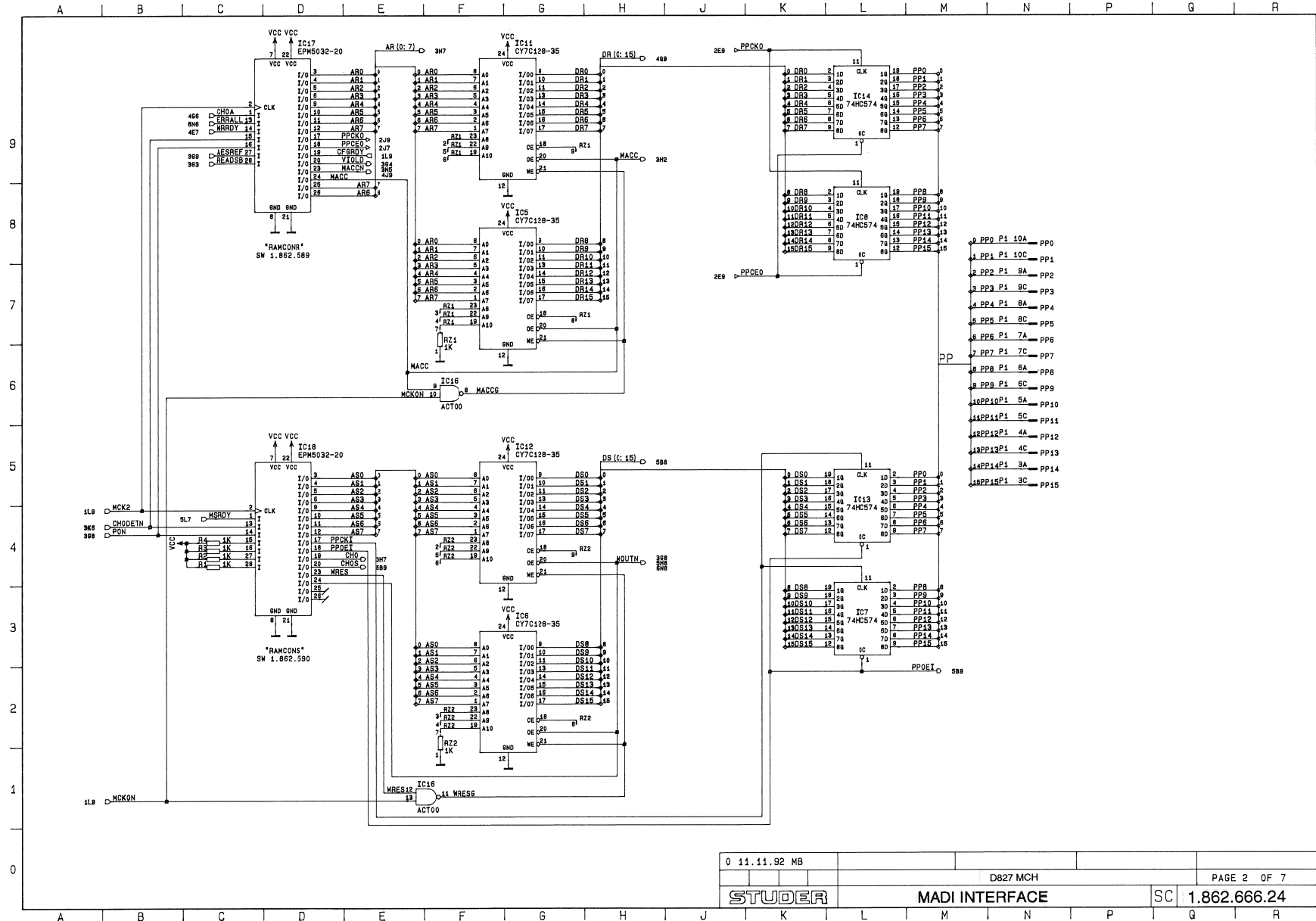


MADI INTERFACE 1.862.666.24



|               |              |                |
|---------------|--------------|----------------|
| 0 11.11.92 MB | D827 MCH     | PAGE 1 OF 7    |
| STUDER        |              | MADI INTERFACE |
| SC            | 1.862.666.24 |                |

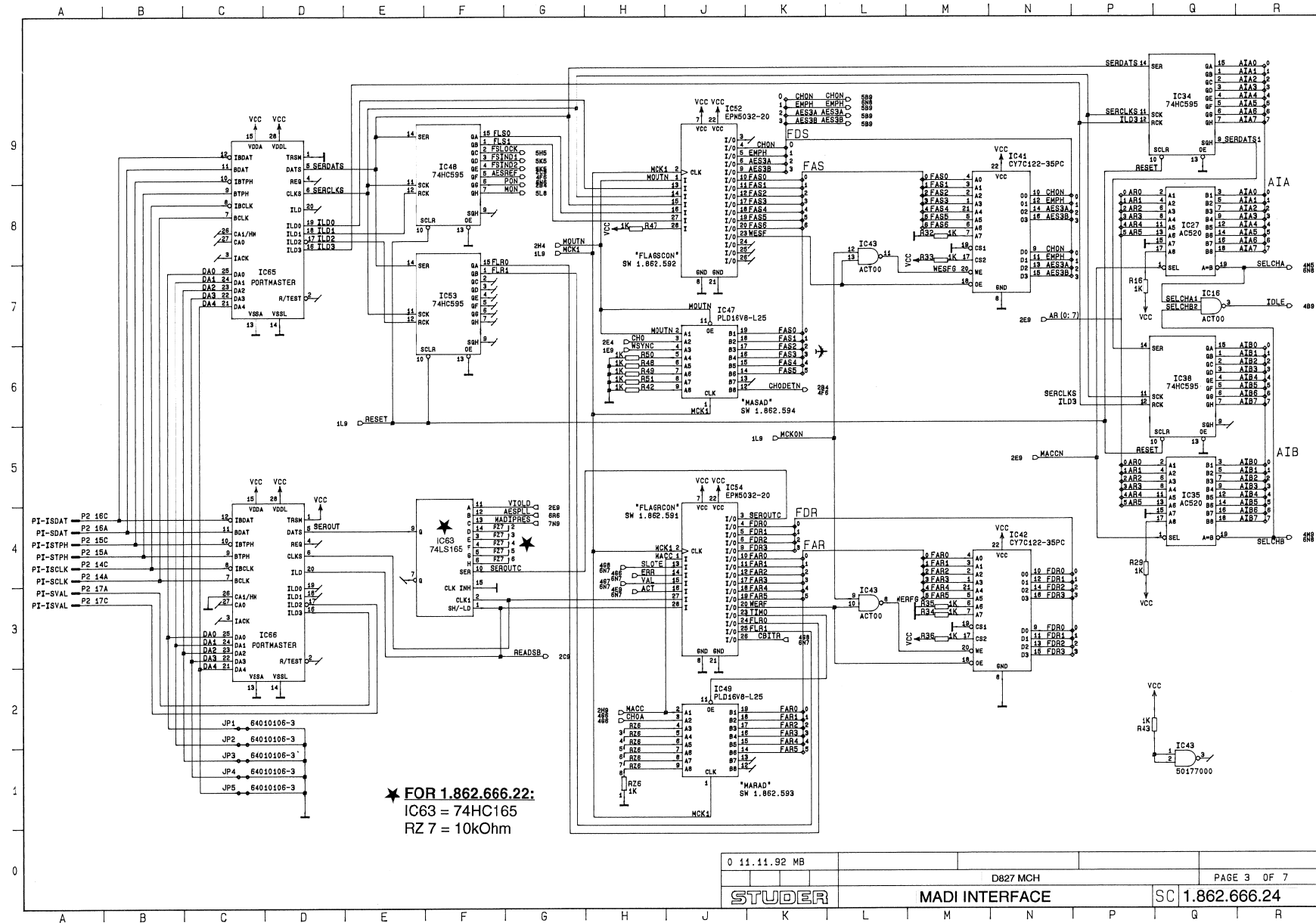
MADI INTERFACE 1.862.666.24



STUDER D827 MCH



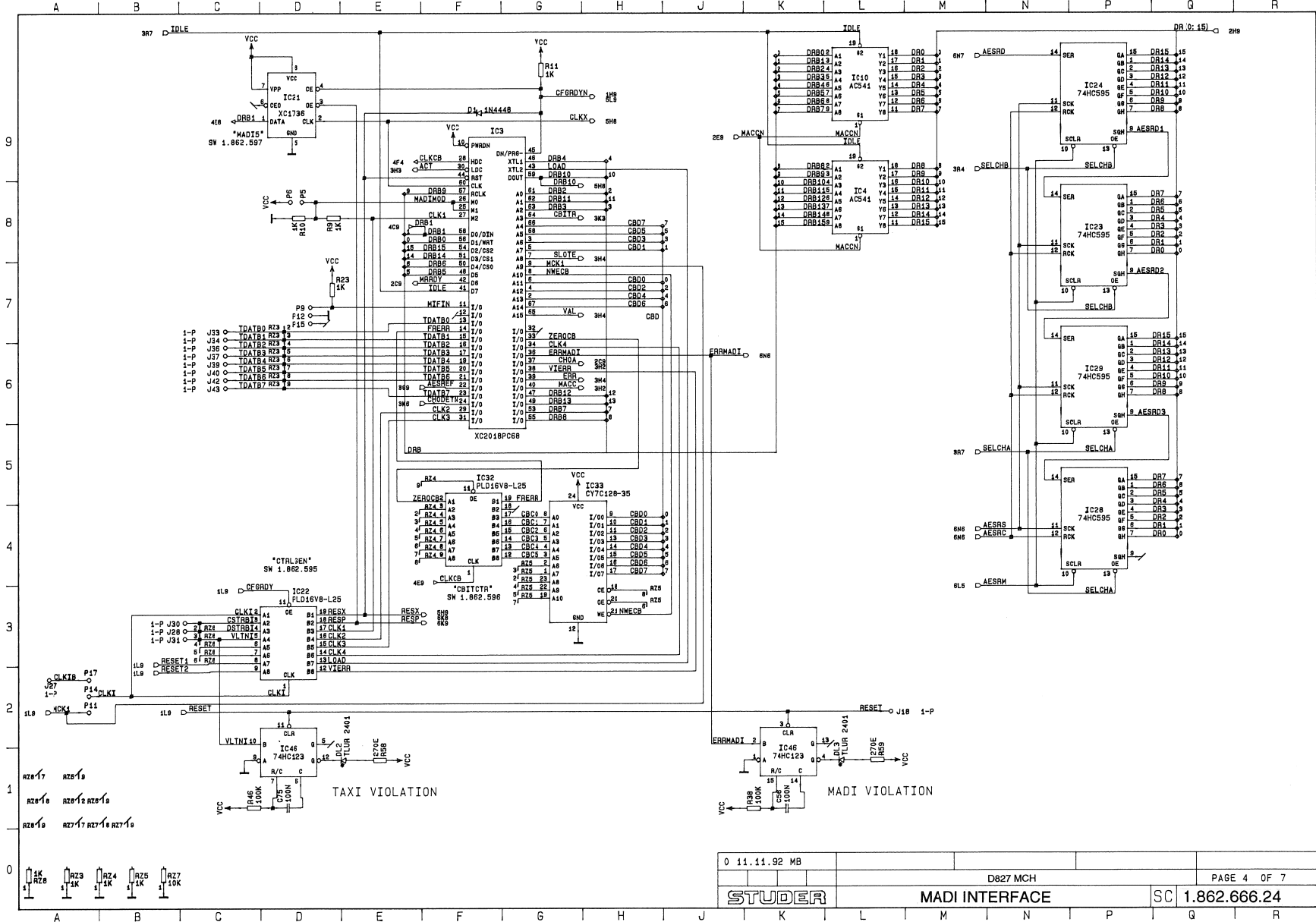
MADI INTERFACE 1.862.666.24



★ FOR 1.862.666.22:  
IC63 = 74HC165  
RZ 7 = 10kOhm

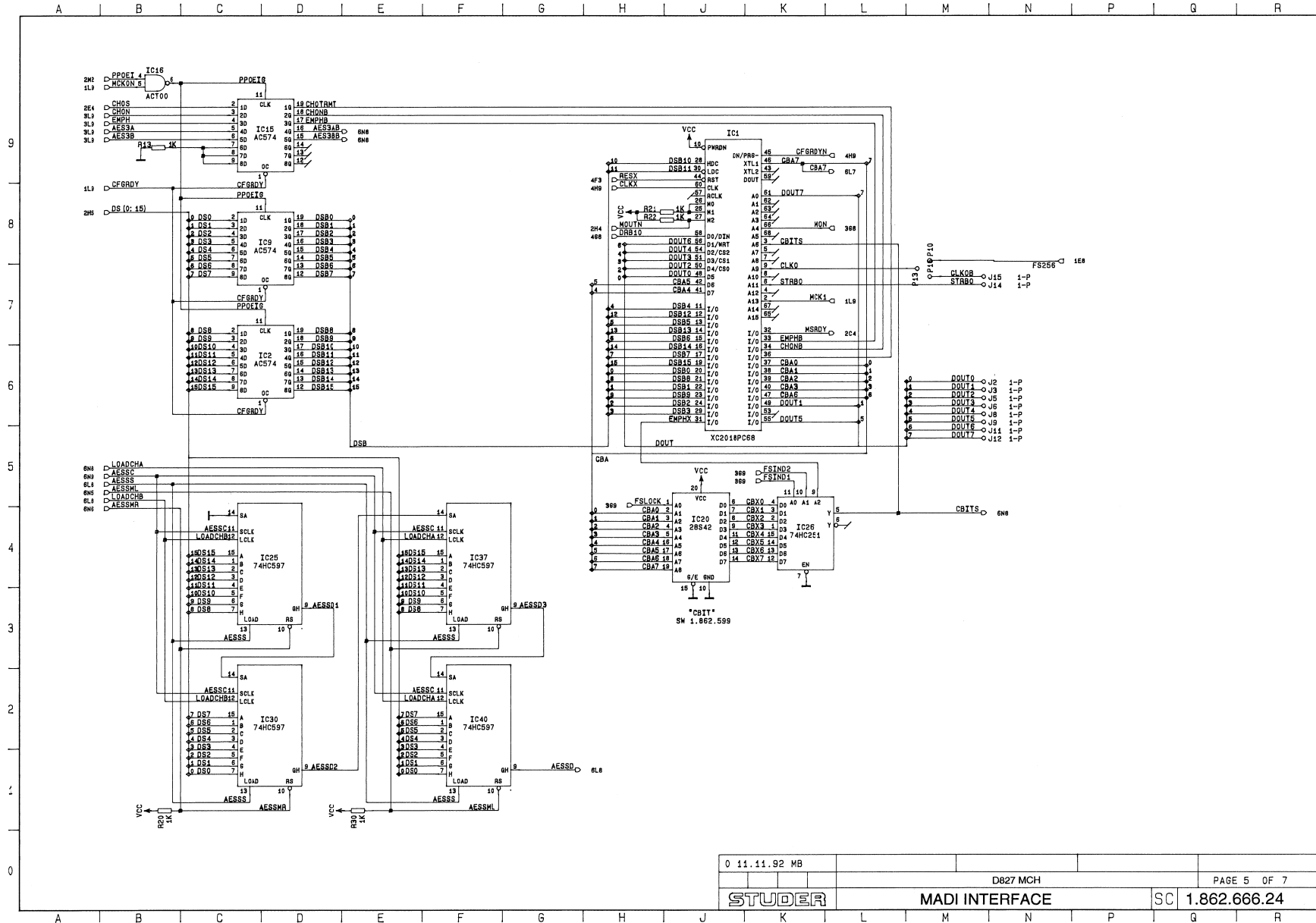
|                       |          |                 |
|-----------------------|----------|-----------------|
| 0 11.11.92 MB         | D827 MCH | PAGE 3 OF 7     |
| STUDER MADI INTERFACE |          | SC 1.862.666.24 |

MADI INTERFACE 1.862.666.24



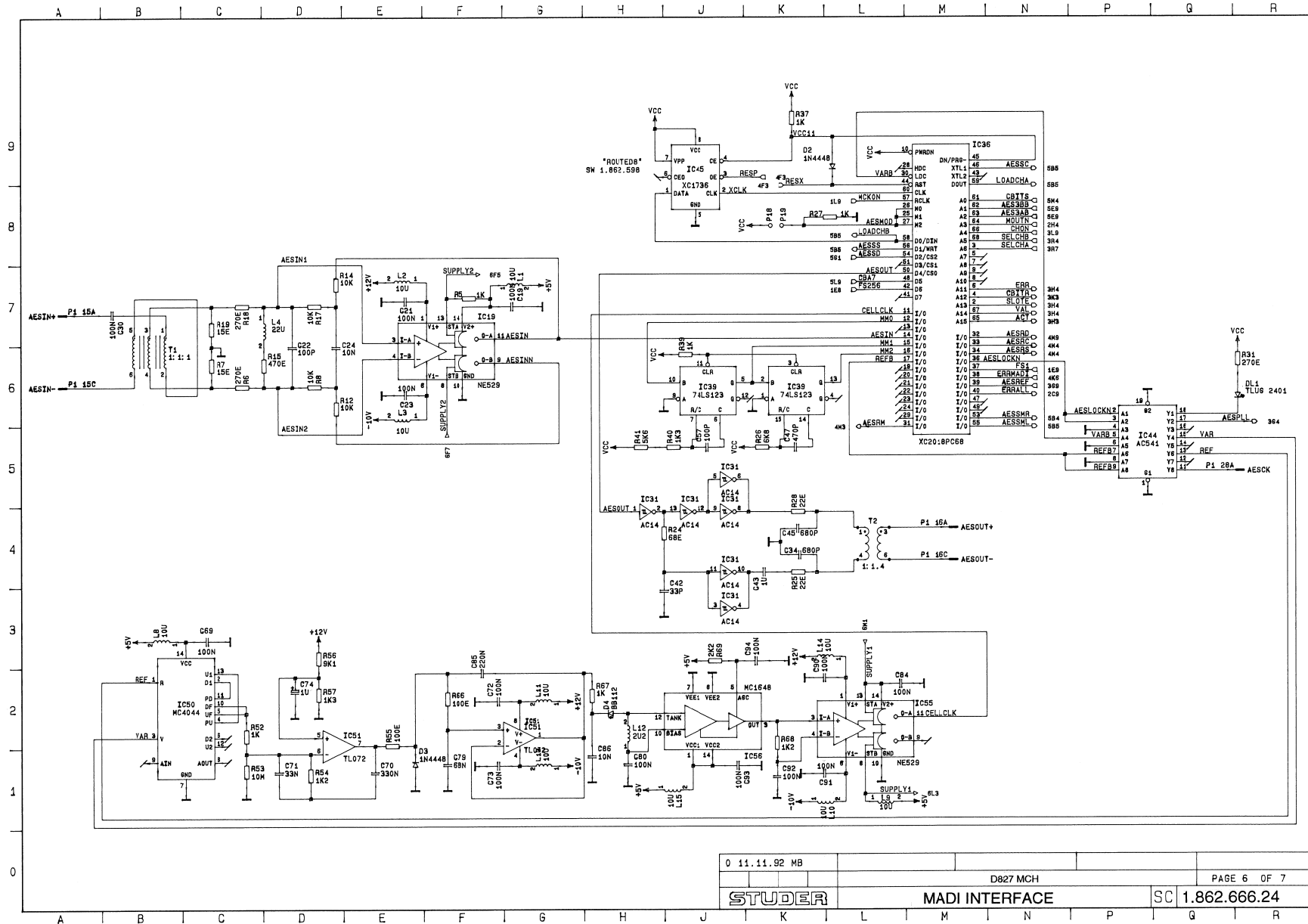


MADI INTERFACE 1.862.666.24



|                       |          |                 |
|-----------------------|----------|-----------------|
| 0 11.11.92 MB         | D827 MCH | PAGE 5 OF 7     |
| STUDER MADI INTERFACE |          | SC 1.862.666.24 |

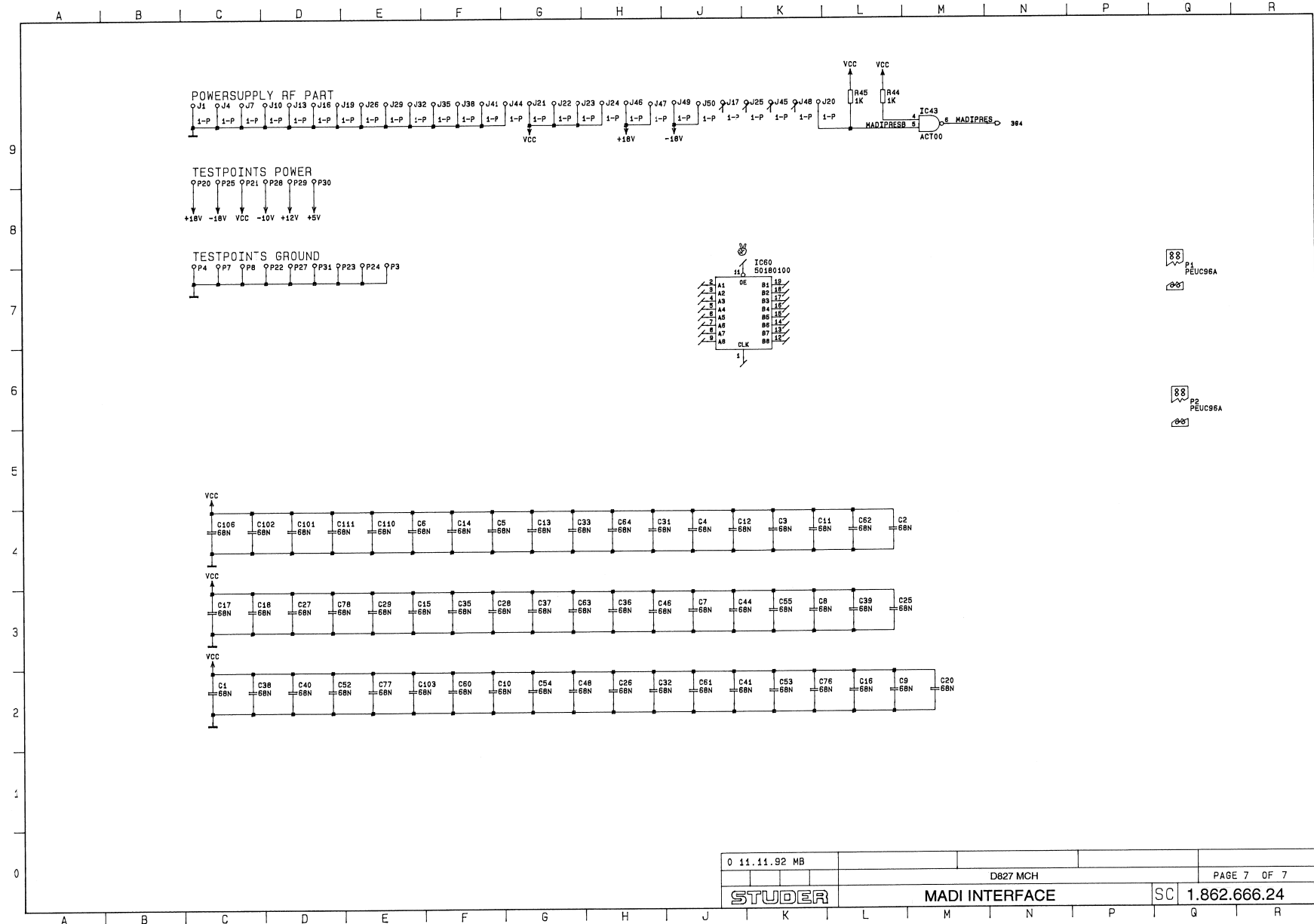
MADI INTERFACE 1.862.666.24



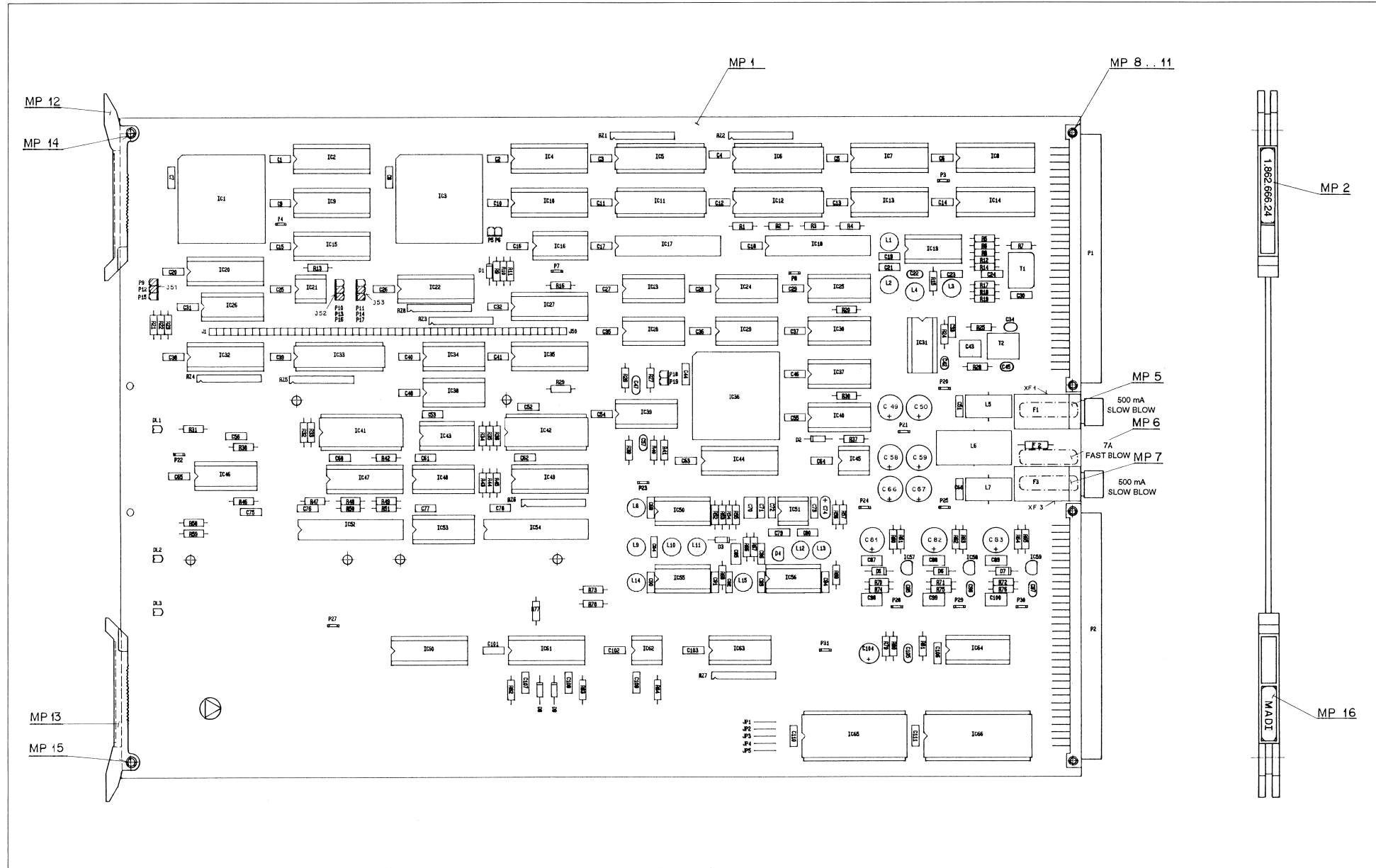
STUDER D827 MCH



MADI INTERFACE 1.862.666.24













## MADI INTERFACE 1.862.666.24

| Ad       | ..POS..      | ...REF.No... | DESCRIPTION.....                           | MANUFACTURER |
|----------|--------------|--------------|--|--------------|
| R....71  | 57.11.3241   | 240E         | 1%, 0.6W, 0207,                            | MF           |
| R....72  | 57.11.3241   | 240E         | 1%, 0.6W, 0207,                            | MF           |
| R....73  | 57.11.3330   | 33E          | 1%, 0.6W, 0207,                            | MF           |
| R....74  | 57.11.3821   | 820E         | 1%, 0.6W, 0207,                            | MF           |
| R....75  | 57.11.3202   | 2k           | 1%, 0.6W, 0207,                            | MF           |
| R....76  | 57.11.3330   | 33E          | 1%, 0.6W, 0207,                            | MF           |
| R....77  | 57.11.3330   | 33E          | 1%, 0.6W, 0207,                            | MF           |
| R....78  | 57.11.3332   | 3k3          | 1%, 0.6W, 0207,                            | MF           |
| R....79  | 57.11.3332   | 3k3          | 1%, 0.6W, 0207,                            | MF           |
| R....80  | 57.11.3332   | 3k3          | 1%, 0.6W, 0207,                            | MF           |
| R....81  | 57.11.3102   | 1k           | 1%, 0.6W, 0207,                            | MF           |
| R....82  | 57.11.3822   | 8k2          | 1%, 0.6W, 0207,                            | MF           |
| R....83  | 57.11.3103   | 10k          | 1%, 0.6W, 0207,                            | MF           |
| R....84  | 57.11.3332   | 3k3          | 1%, 0.6W, 0207,                            | MF           |
| RZ....1  | 57.88.4102   | 1k           | 2%, 0.125W, SIP09, 8 *                     | 1K           |
| RZ....2  | 57.88.4102   | 1k           | 2%, 0.125W, SIP09, 8 *                     | 1K           |
| RZ....3  | 57.88.4102   | 1k           | 2%, 0.125W, SIP09, 8 *                     | 1K           |
| RZ....4  | 57.88.4102   | 1k           | 2%, 0.125W, SIP09, 8 *                     | 1K           |
| RZ....5  | 57.88.4102   | 1k           | 2%, 0.125W, SIP09, 8 *                     | 1K           |
| RZ....6  | 57.88.4102   | 1k           | 2%, 0.125W, SIP09, 8 *                     | 1K           |
| RZ....7  | 57.88.4102   | 1k           | 2%, 0.125W, SIP09, 8 *                     | 1K           |
| RZ....8  | 57.88.4102   | 1k           | 2%, 0.125W, SIP09, 8 *                     | 1K           |
| T....1   | 63.15.0001   | 1:1:1        | T766,PULSE TRANSFORMER                     |              |
| T....2   | 1.022.647.00 | 1:1.4        | EP7,OUTPUT TRAF0 AES/EBU                   | ST           |
| XF....1  | 53.03.0118   |              | FUSE HOLDER                                |              |
| XF....3  | 53.03.0118   |              | FUSE HOLDER                                |              |
| XIC...1  | 53.03.2268   | PLCC68       |  |              |
| XIC...3  | 53.03.2268   | PLCC68       |  |              |
| XIC...5  | 53.03.0182   | DIL24-3      |  |              |
| XIC...6  | 53.03.0182   | DIL24-3      |  |              |
| XIC...7  | 53.03.0165   | DIL20        |  |              |
| XIC...8  | 53.03.0165   | DIL20        |  |              |
| XIC...11 | 53.03.0182   | DIL24-3      |  |              |
| XIC...12 | 53.03.0182   | DIL24-3      |  |              |
| XIC...13 | 53.03.0165   | DIL20        |  |              |
| XIC...14 | 53.03.0165   | DIL20        |  |              |
| XIC...17 | 53.03.0167   | DIL14        | zusammen mit XIC 117 als DIL28-3 verwenden |              |
| XIC.117  | 53.03.0167   | DIL14        | siehe XIC 17 ...                           |              |
| XIC..18  | 53.03.0167   | DIL14        | zusammen mit XIC 118 als DIL28-3 verwenden |              |
| XIC.118  | 53.03.0167   | DIL14        | siehe XIC 18 ...                           |              |
| XIC..20  | 53.03.0165   | DIL20        |  |              |
| XIC..21  | 53.03.0166   | DIL08        |  |              |
| XIC..22  | 53.03.0165   | DIL20        |  |              |
| XIC..32  | 53.03.0165   | DIL20        |  |              |
| XIC..33  | 53.03.0182   | DIL24-3      |  |              |
| XIC..36  | 53.03.2268   | PLCC68       |  |              |
| XIC..41  | 53.03.0183   | DIL22-4      |  |              |
| XIC..42  | 53.03.0183   | DIL22-4      |  |              |
| XIC..45  | 53.03.0166   | DIL08        |  |              |
| XIC..47  | 53.03.0165   | DIL20        |  |              |
| XIC..49  | 53.03.0165   | DIL20        |  |              |
| XIC..52  | 53.03.0167   | DIL14        | zusammen mit XIC 152 als DIL28-3 verwenden |              |
| XIC.152  | 53.03.0167   | DIL14        | siehe XIC 52 ...                           |              |
| XIC..54  | 53.03.0167   | DIL14        | zusammen mit XIC 154 als DIL28-3 verwenden |              |
| XIC.154  | 53.03.0167   | DIL14        | siehe XIC 54 ...                           |              |
| XIC..64  | 53.03.0168   | DIL16        |  |              |
| XIC..65  | 53.03.0173   | DIL28-6      |  |              |
| XIC..66  | 53.03.0173   | DIL28-6      |  |              |

## REMARKS:

MANUFACTURERS:  
ST = STUDER

ABBREVIATIONS:  
CER = CERAMIC / XIC = IC SOCKET / MF = METAL FILM

1.862.666.23 MADI-INTERFACE , ESE ML 94/03/1000

Comments

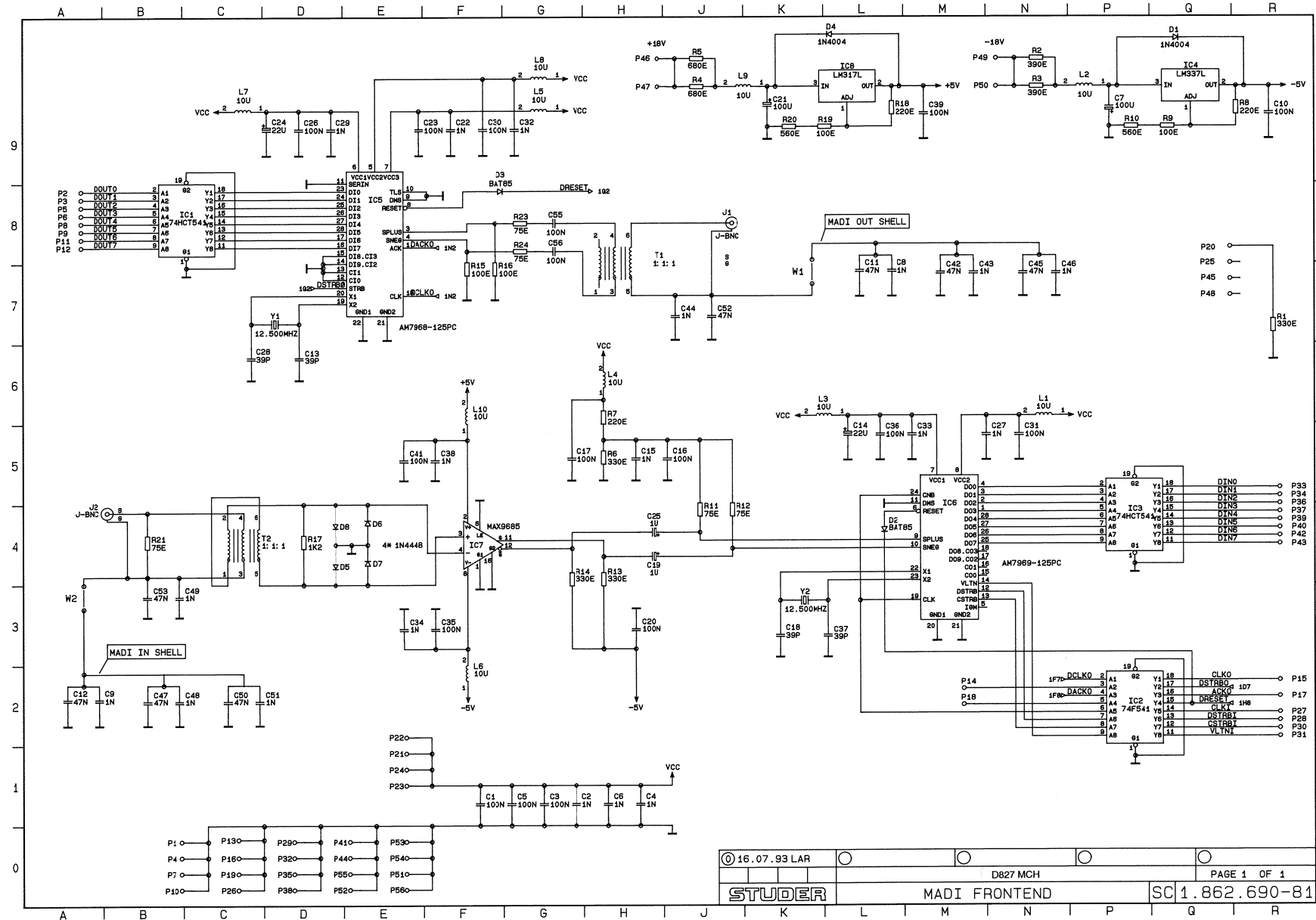
XIC 17 und XIC 117, XIC 18 und XIC 118 etc werden zusammen als Socket DIL 28-3 verwendet

Manufacturer:  
ST = STUDER

ABBREVIATIONS:  
CER = CERAMIC, MF = METAL FILM



MADI FRONTEND 1.862.690.81



|                      |          |                 |
|----------------------|----------|-----------------|
| 16.07.93 LAR         | D827 MCH | PAGE 1 OF 1     |
| STUDER MADI FRONTEND |          | SC 1.862.690-81 |

STUDER D827 MCH

MADI FRONTEND 1.862.690.81

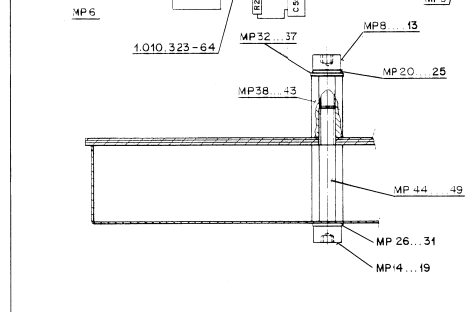
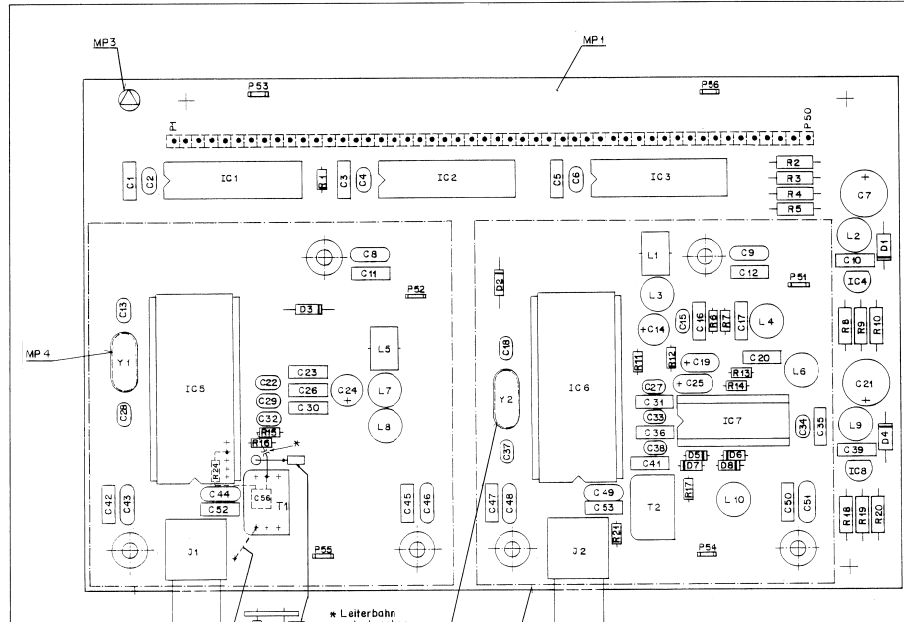


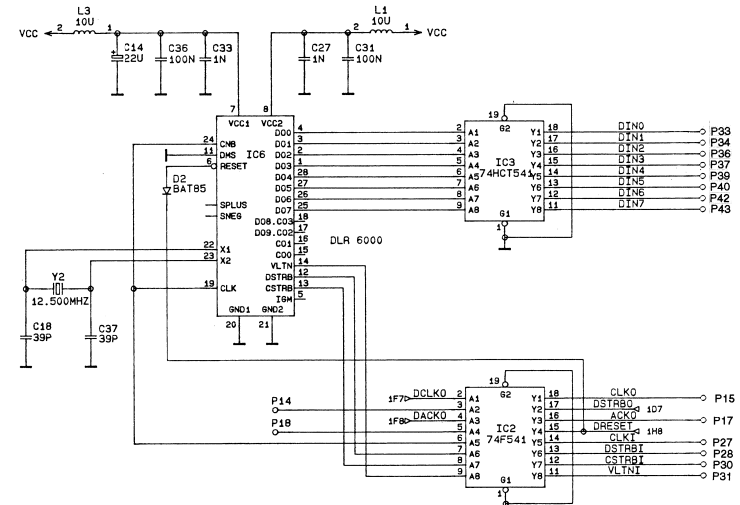
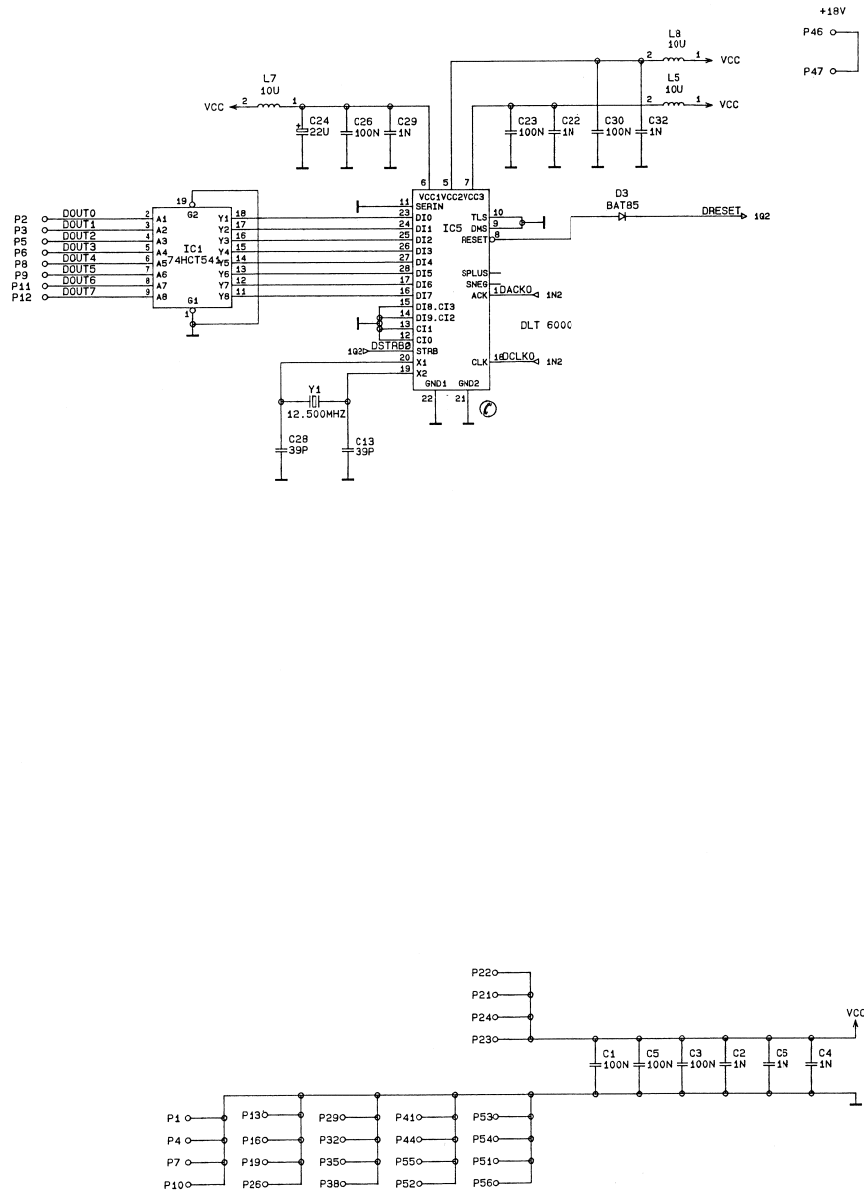
Table with columns: Ad, POS., REF., No., DESCRIPTION, MANUFACTURER. Contains component callouts like C...1, C...2, etc.

STUDER HEBERDOPF ZÜRICH MADI FRONTEND "ESE" 1.862.690-81

Main parts list table with columns: Ad, POS., REF., No., DESCRIPTION, MANUFACTURER. Lists various components like ICs, resistors, capacitors, and transformers.



MADI FRONTEND OPTICAL 1.862.691.00 (OPTION)



|                |                       |                 |             |
|----------------|-----------------------|-----------------|-------------|
| © 18.08.92 LAR |                       |                 |             |
|                |                       | DB20-MCH        | PAGE 1 OF 1 |
| STUDER         | MADI FRONTEND OPTICAL | SC 1.862.691-00 |             |



MADI FRONTEND OPTICAL 1.862.691.00 (OPTION)

UL approved material only

| Zurücksendung |     | Anzahl |       |
|---------------|-----|--------|-------|
| Datum         | Urs | Gepr   | Index |
| 24.11.92      |     |        |       |
| Kopie für     |     |        |       |

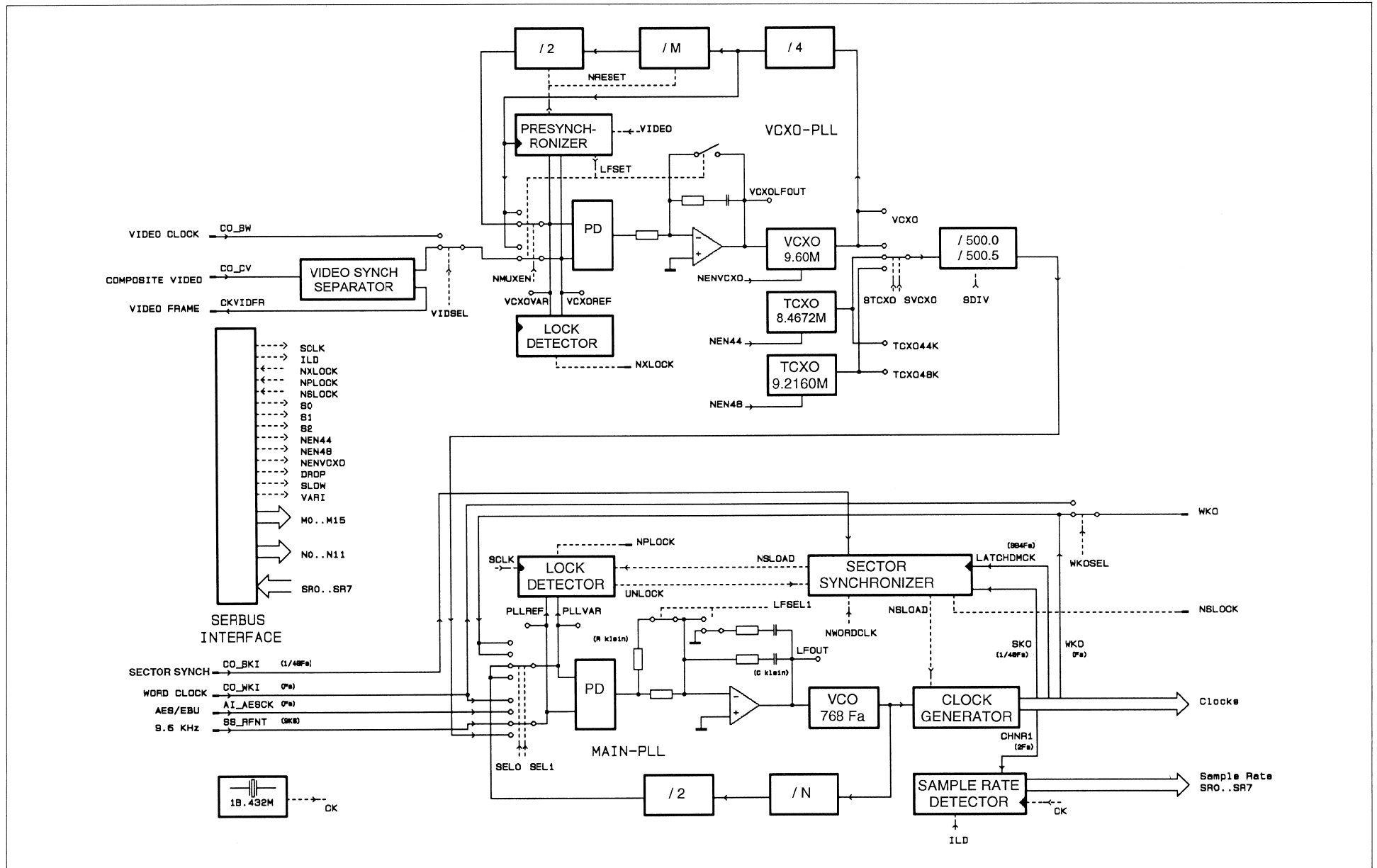
|                                |   |                               |
|--------------------------------|---|-------------------------------|
| STUDER<br>REGENSDORF<br>ZÜRICH | Bezeichnung<br><b>MADI FRONTEND<br/>OPTICAL<br/>"ESE"</b> | Nummer<br><b>1.862.691-00</b> |
|--------------------------------|---|-------------------------------|

| Ad | POS | REF.No       | DESCRIPTION                  | MANUFACTURER | Ad   | POS | REF.No     | DESCRIPTION                 | MANUFACTURER |
|----|-----|--------------|------------------------------|--------------|--|-----|------------|-----------------------------|--------------|
| C  | 1   | 59.06.0104   | 100n 10 % 63V                |              | P  | 13  | 53.03.0252 | 1-P MALE, AU 12MM           |              |
| C  | 2   | 59.32.4102   | 1n 20 % 90V                  |              | P  | 14  | 53.03.0252 | 1-P MALE, AU 12MM           |              |
| C  | 3   | 59.06.0104   | 100n 10 % 63V                |              | P  | 15  | 53.03.0252 | 1-P MALE, AU 12MM           |              |
| C  | 4   | 59.32.4102   | 1n 20 % 90V                  |              | P  | 16  | 53.03.0252 | 1-P MALE, AU 12MM           |              |
| C  | 5   | 59.06.0104   | 100n 10 % 63V                |              | P  | 17  | 53.03.0252 | 1-P MALE, AU 12MM           |              |
| C  | 6   | 59.32.4102   | 1n 20 % 90V                  |              | P  | 18  | 53.03.0252 | 1-P MALE, AU 12MM           |              |
| C  | 13  | 59.34.2390   | 39p 5 % 63V, N150            |              | P  | 19  | 53.03.0252 | 1-P MALE, AU 12MM           |              |
| C  | 14  | 59.22.5220   | 22u -20/+50 % 25V            |              | P  | 20  | 53.03.0252 | 1-P MALE, AU 12MM           |              |
| C  | 18  | 59.34.2390   | 39p 5 % 63V, N150            |              | P  | 21  | 53.03.0252 | 1-P MALE, AU 12MM           |              |
| C  | 22  | 59.32.4102   | 1n 20 % 90V                  |              | P  | 22  | 53.03.0252 | 1-P MALE, AU 12MM           |              |
| C  | 23  | 59.06.0104   | 100n 10 % 63V                |              | P  | 23  | 53.03.0252 | 1-P MALE, AU 12MM           |              |
| C  | 24  | 59.22.5220   | 22u -20/+50 % 25V            |              | P  | 24  | 53.03.0252 | 1-P MALE, AU 12MM           |              |
| C  | 26  | 59.06.0104   | 100n 10 % 63V                |              | P  | 25  | 53.03.0252 | 1-P MALE, AU 12MM           |              |
| C  | 27  | 59.32.4102   | 1n 20 % 90V                  |              | P  | 26  | 53.03.0252 | 1-P MALE, AU 12MM           |              |
| C  | 28  | 59.34.2390   | 39p 5 % 63V, N150            |              | P  | 27  | 53.03.0252 | 1-P MALE, AU 12MM           |              |
| C  | 29  | 59.32.4102   | 1n 20 % 90V                  |              | P  | 28  | 53.03.0252 | 1-P MALE, AU 12MM           |              |
| C  | 30  | 59.06.0104   | 100n 10 % 63V                |              | P  | 29  | 53.03.0252 | 1-P MALE, AU 12MM           |              |
| C  | 31  | 59.06.0104   | 100n 10 % 63V                |              | P  | 30  | 53.03.0252 | 1-P MALE, AU 12MM           |              |
| C  | 32  | 59.32.4102   | 1n 20 % 90V                  |              | P  | 31  | 53.03.0252 | 1-P MALE, AU 12MM           |              |
| C  | 33  | 59.32.4102   | 1n 20 % 90V                  |              | P  | 32  | 53.03.0252 | 1-P MALE, AU 12MM           |              |
| C  | 36  | 59.06.0104   | 100n 10 % 63V, N150          |              | P  | 33  | 53.03.0252 | 1-P MALE, AU 12MM           |              |
| C  | 37  | 59.34.2390   | 39p 5 % 63V, N150            |              | P  | 34  | 53.03.0252 | 1-P MALE, AU 12MM           |              |
| D  | 2   | 50.04.0127   | BAT85 D035, SCHOTTKY         |              | P  | 35  | 53.03.0252 | 1-P MALE, AU 12MM           |              |
| D  | 3   | 50.04.0127   | BAT85 D035, SCHOTTKY         |              | P  | 36  | 53.03.0252 | 1-P MALE, AU 12MM           |              |
| IC | 1   | 50.17.0541   | 74HCT541 OCTAL BUS BUFFER    |              | P  | 37  | 53.03.0252 | 1-P MALE, AU 12MM           |              |
| IC | 2   | 50.21.0541   | 74F541 OCTAL BUS BUFFER      |              | P  | 38  | 53.03.0252 | 1-P MALE, AU 12MM           |              |
| IC | 3   | 50.17.0541   | 74HCT541 OCTAL BUS BUFFER    |              | P  | 39  | 53.03.0252 | 1-P MALE, AU 12MM           |              |
| IC | 5   | 89.10.0001   | DLT6000                      | BTD          | P  | 40  | 53.03.0252 | 1-P MALE, AU 12MM           |              |
| IC | 6   | 89.10.0002   | DLR6000                      | BTD          | P  | 41  | 53.03.0252 | 1-P MALE, AU 12MM           |              |
| L  | 1   | 62.03.0001   | 10u 1A, TOROIDAL CHOKE       |              | P  | 42  | 53.03.0252 | 1-P MALE, AU 12MM           |              |
| L  | 3   | 62.02.3100   | 10u 10 % OER (OHM), HF-CHOKE |              | P  | 43  | 53.03.0252 | 1-P MALE, AU 12MM           |              |
| L  | 5   | 62.03.0001   | 10u 1A, TOROIDAL CHOKE       |              | P  | 44  | 53.03.0252 | 1-P MALE, AU 12MM           |              |
| L  | 7   | 62.02.3100   | 10u 10 % OER (OHM), HF-CHOKE |              | P  | 45  | 53.03.0252 | 1-P MALE, AU 12MM           |              |
| L  | 8   | 62.02.3100   | 10u 10 % OER (OHM), HF-CHOKE |              | P  | 46  | 53.03.0252 | 1-P MALE, AU 12MM           |              |
| MP | 1   | 1.862.690.11 | Empty PCB                    | ST           | P  | 47  | 53.03.0252 | 1-P MALE, AU 12MM           |              |
| MP | 2   | 1.862.691.01 | Etikette: Baugruppennummer   | ST           | P  | 48  | 53.03.0252 | 1-P MALE, AU 12MM           |              |
| MP | 3   | 43.01.0108   | Etikette: ESE                |              | P  | 49  | 53.03.0252 | 1-P MALE, AU 12MM           |              |
| MP | 4   | 89.01.1499   | Isolierscheibe Quarz         |              | P  | 50  | 53.03.0252 | 1-P MALE, AU 12MM           |              |
| MP | 5   | 89.01.1499   | Isolierscheibe Quarz         |              | R  | 1   | 57.10.1331 | 330E 1 %, 0.4W, MF          |              |
| MP | 8   | 21.53.0354   | Imbusschraube M3x6           |              | Y  | 1   | 89.01.1013 | 12.500MHZ 30PF, PAR., VERT. |              |
| MP | 9   | 21.53.0354   | Imbusschraube M3x6           |              | Y  | 2   | 89.01.1013 | 12.500MHZ 30PF, PAR., VERT. |              |
| MP | 10  | 21.53.0354   | Imbusschraube M3x6           |              | REMARKS:   |     |            |                             |              |
| MP | 11  | 21.53.0354   | Imbusschraube M3x6           |              | MANUFACTURERS:   |     |            |                             |              |
| MP | 12  | 21.53.0354   | Imbusschraube M3x6           |              | ST = STUDER  |     |            |                             |              |
| MP | 13  | 21.53.0354   | Imbusschraube M3x6           |              | ABBREVIATIONS:   |     |            |                             |              |
| MP | 14  | 21.53.0354   | Imbusschraube M3x6           |              | CER = CERAMIC / XIC = IC SOCKET / MF = METAL FILM      |     |            |                             |              |
| MP | 15  | 21.53.0354   | Imbusschraube M3x6           |              | 1.862.691.00 MADI FRONTEND OPTICAL , ESE LAR92/08/1800 |     |            |                             |              |
| MP | 16  | 21.53.0354   | Imbusschraube M3x6           |              |  |     |            |                             |              |
| MP | 17  | 21.53.0354   | Imbusschraube M3x6           |              |  |     |            |                             |              |
| MP | 18  | 21.53.0354   | Imbusschraube M3x6           |              |  |     |            |                             |              |
| MP | 19  | 21.53.0354   | Imbusschraube M3x6           |              |  |     |            |                             |              |
| MP | 20  | 24.16.1030   | Sicherungsscheibe M3         |              |  |     |            |                             |              |
| MP | 21  | 24.16.1030   | Sicherungsscheibe M3         |              |  |     |            |                             |              |
| MP | 22  | 24.16.1030   | Sicherungsscheibe M3         |              |  |     |            |                             |              |
| MP | 23  | 24.16.1030   | Sicherungsscheibe M3         |              |  |     |            |                             |              |
| MP | 24  | 24.16.1030   | Sicherungsscheibe M3         |              |  |     |            |                             |              |
| MP | 25  | 24.16.1030   | Sicherungsscheibe M3         |              |  |     |            |                             |              |
| MP | 26  | 24.16.1030   | Sicherungsscheibe M3         |              |  |     |            |                             |              |
| MP | 27  | 24.16.1030   | Sicherungsscheibe M3         |              |  |     |            |                             |              |
| MP | 28  | 24.16.1030   | Sicherungsscheibe M3         |              |  |     |            |                             |              |
| MP | 29  | 24.16.1030   | Sicherungsscheibe M3         |              |  |     |            |                             |              |
| MP | 30  | 24.16.1030   | Sicherungsscheibe M3         |              |  |     |            |                             |              |
| MP | 31  | 24.16.1030   | Sicherungsscheibe M3         |              |  |     |            |                             |              |
| MP | 32  | 23.01.1032   | U-Scheibe                    |              |  |     |            |                             |              |
| MP | 33  | 23.01.1032   | U-Scheibe                    |              |  |     |            |                             |              |
| MP | 34  | 23.01.1032   | U-Scheibe                    |              |  |     |            |                             |              |
| MP | 35  | 23.01.1032   | U-Scheibe                    |              |  |     |            |                             |              |
| MP | 36  | 23.01.1032   | U-Scheibe                    |              |  |     |            |                             |              |
| MP | 37  | 23.01.1032   | U-Scheibe                    |              |  |     |            |                             |              |
| MP | 38  | 1.010.022.27 | Mutterbolzen M3*12           |              |  |     |            |                             |              |
| MP | 39  | 1.010.022.27 | Mutterbolzen M3*12           |              |  |     |            |                             |              |
| MP | 40  | 1.010.022.27 | Mutterbolzen M3*12           |              |  |     |            |                             |              |
| MP | 41  | 1.010.022.27 | Mutterbolzen M3*12           |              |  |     |            |                             |              |
| MP | 42  | 1.010.022.27 | Mutterbolzen M3*12           |              |  |     |            |                             |              |
| MP | 43  | 1.010.022.27 | Mutterbolzen M3*12           |              |  |     |            |                             |              |
| MP | 44  | 23.01.1032   | U-Scheibe                    |              |  |     |            |                             |              |
| MP | 45  | 23.01.1032   | U-Scheibe                    |              |  |     |            |                             |              |
| MP | 46  | 23.01.1032   | U-Scheibe                    |              |  |     |            |                             |              |
| MP | 47  | 23.01.1032   | U-Scheibe                    |              |  |     |            |                             |              |
| MP | 48  | 23.01.1032   | U-Scheibe                    |              |  |     |            |                             |              |
| MP | 49  | 23.01.1032   | U-Scheibe                    |              |  |     |            |                             |              |
| P  | 1   | 53.03.0252   | 1-P MALE, AU 12MM            |              |  |     |            |                             |              |
| P  | 2   | 53.03.0252   | 1-P MALE, AU 12MM            |              |  |     |            |                             |              |
| P  | 3   | 53.03.0252   | 1-P MALE, AU 12MM            |              |  |     |            |                             |              |
| P  | 4   | 53.03.0252   | 1-P MALE, AU 12MM            |              |  |     |            |                             |              |
| P  | 5   | 53.03.0252   | 1-P MALE, AU 12MM            |              |  |     |            |                             |              |
| P  | 6   | 53.03.0252   | 1-P MALE, AU 12MM            |              |  |     |            |                             |              |
| P  | 7   | 53.03.0252   | 1-P MALE, AU 12MM            |              |  |     |            |                             |              |
| P  | 8   | 53.03.0252   | 1-P MALE, AU 12MM            |              |  |     |            |                             |              |
| P  | 9   | 53.03.0252   | 1-P MALE, AU 12MM            |              |  |     |            |                             |              |
| P  | 10  | 53.03.0252   | 1-P MALE, AU 12MM            |              |  |     |            |                             |              |
| P  | 11  | 53.03.0252   | 1-P MALE, AU 12MM            |              |  |     |            |                             |              |
| P  | 12  | 53.03.0252   | 1-P MALE, AU 12MM            |              |  |     |            |                             |              |



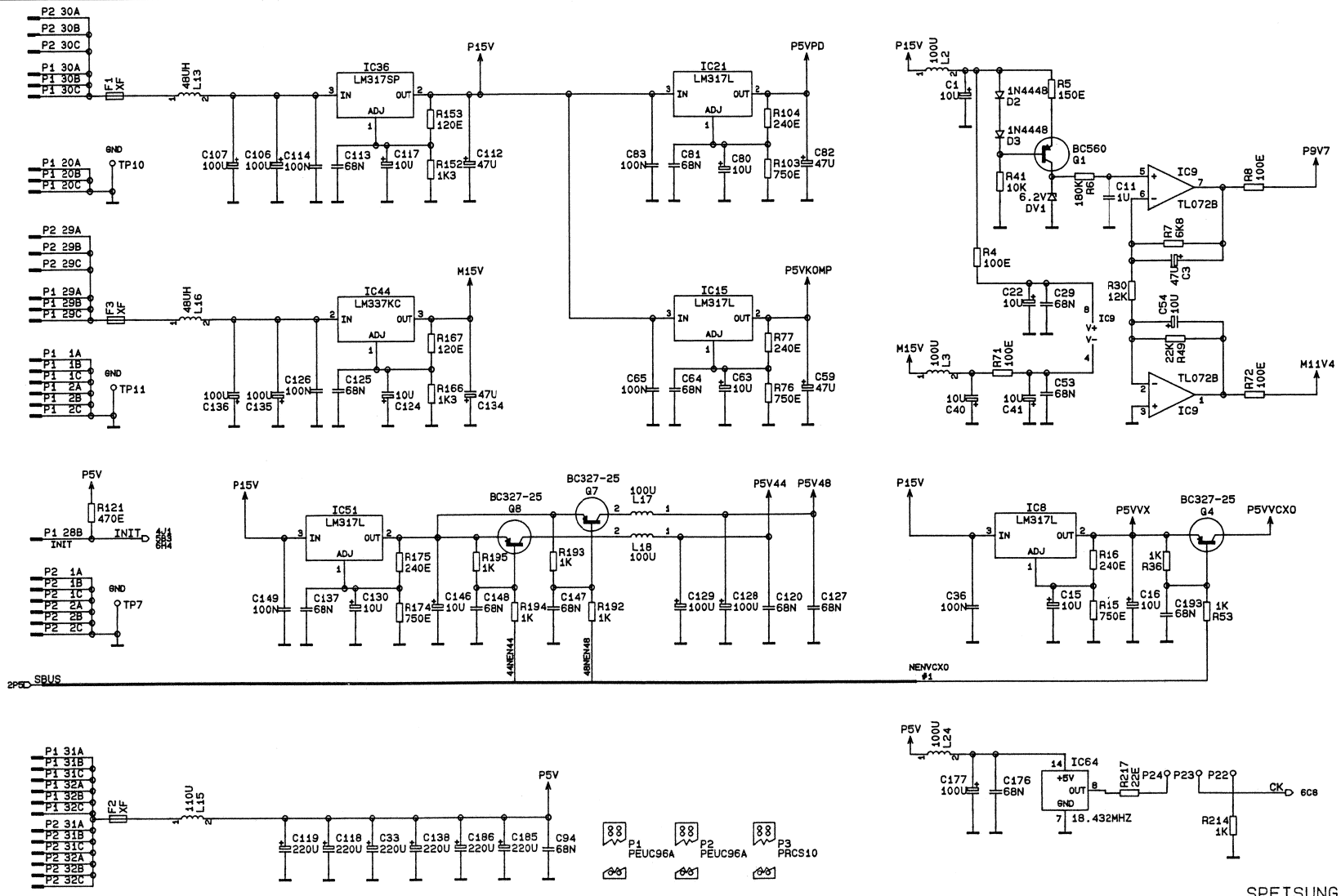
**BLOCK DIAGRAM**

Clock Board MKII 1.862.667





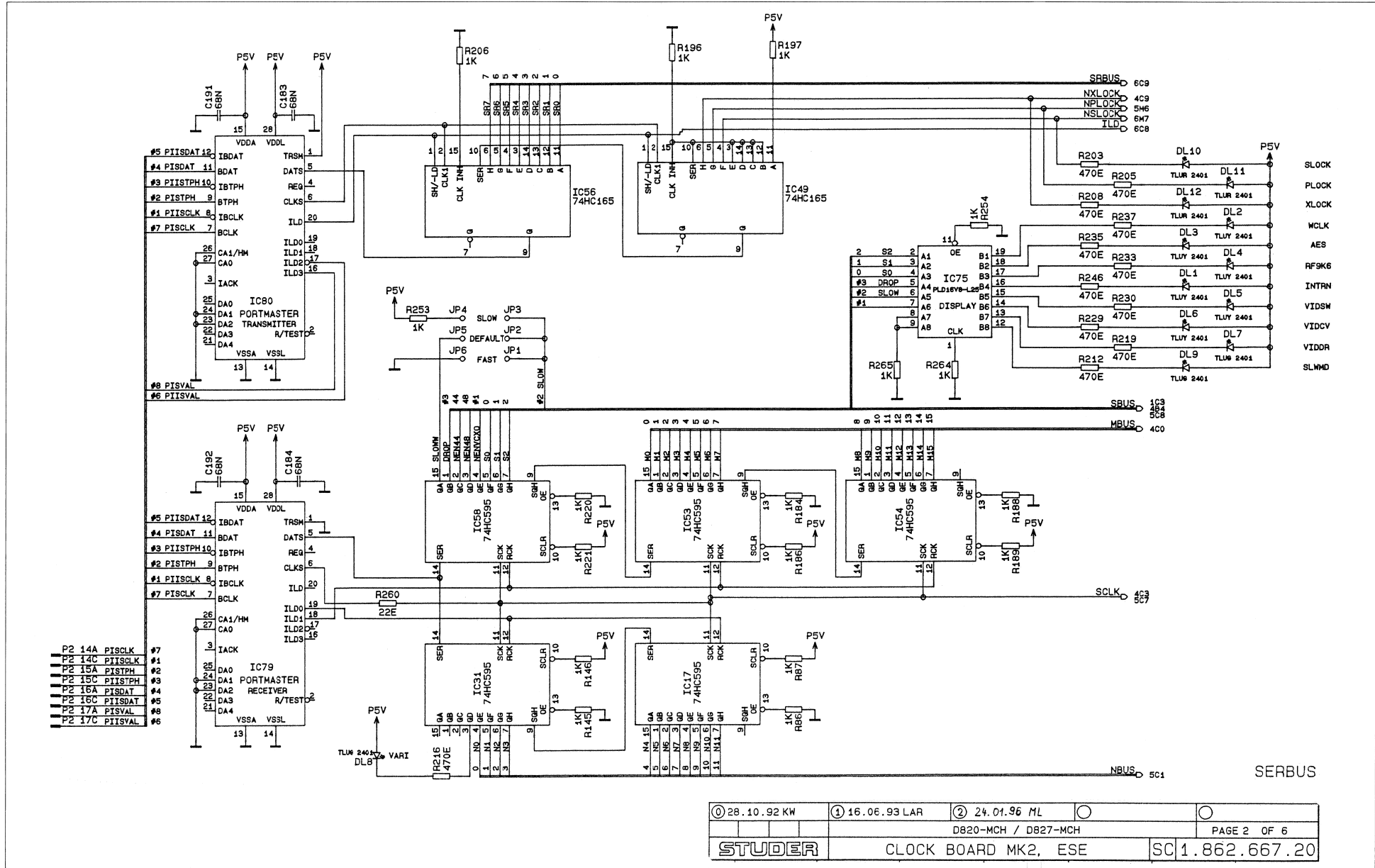
CLOCK BOARD MKII 1.862.667.20



SPEISUNG

|                     |                |                      |                 |   |
|---------------------|----------------|----------------------|-----------------|---|
| ① 28.10.92 KW       | ① 16.06.93 LAR | ② 24.01.96 ML        | ○               | ○ |
| D820-MCH / D827-MCH |                |                      | PAGE 1 OF 6     |   |
| <b>STUDER</b>       |                | CLOCK BOARD MK2, ESE | SC 1.862.667.20 |   |

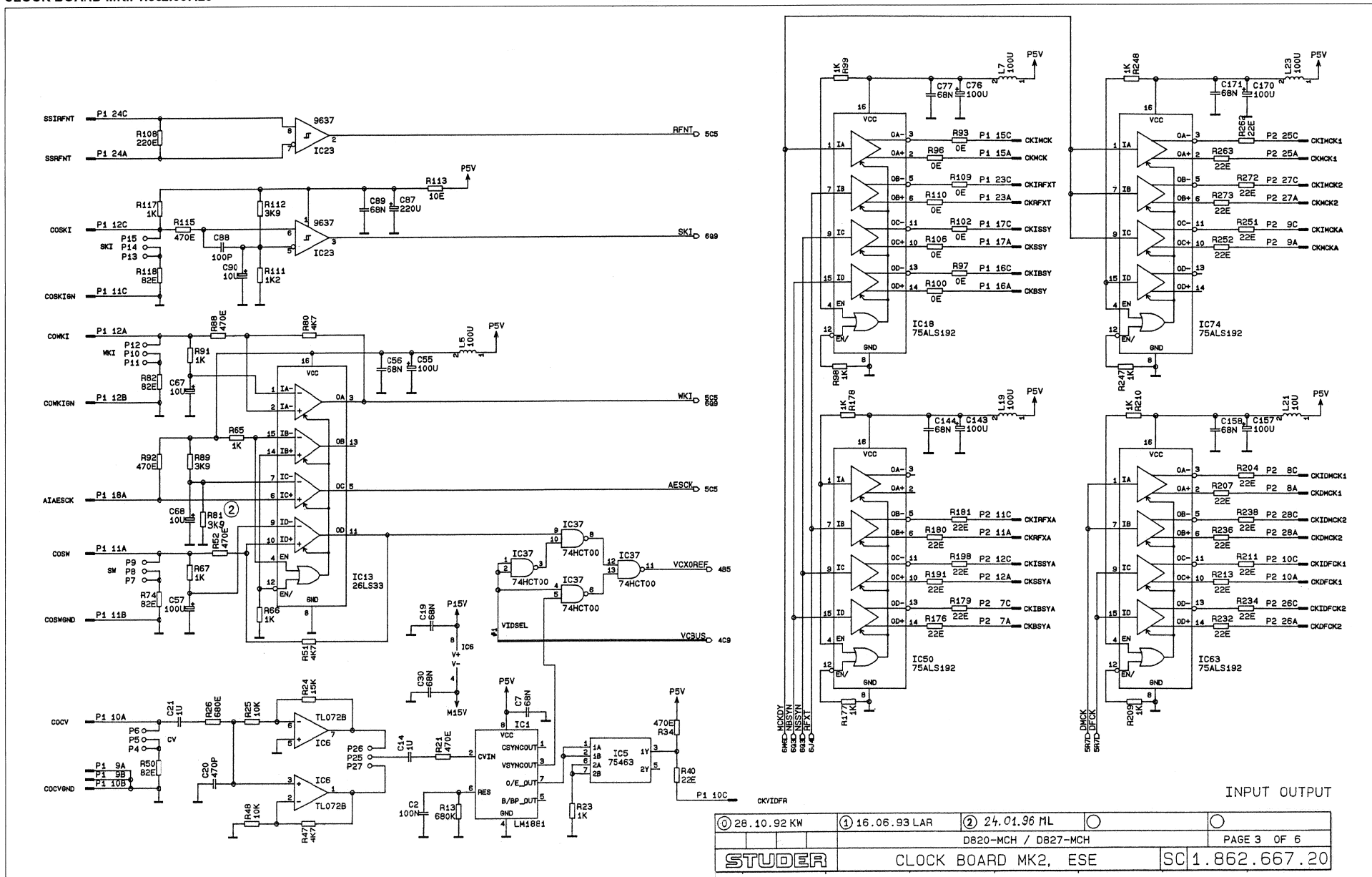
CLOCK BOARD MKII 1.862.667.20



|                     |                |                      |             |                |
|---------------------|----------------|----------------------|-------------|----------------|
| ① 28.10.92 KW       | ① 16.06.93 LAR | ② 24.01.96 ML        | ○           | ○              |
| D820-MCH / D827-MCH |                |                      | PAGE 2 OF 6 |                |
| <b>STUDER</b>       |                | CLOCK BOARD MK2, ESE |             | SC1.862.667.20 |



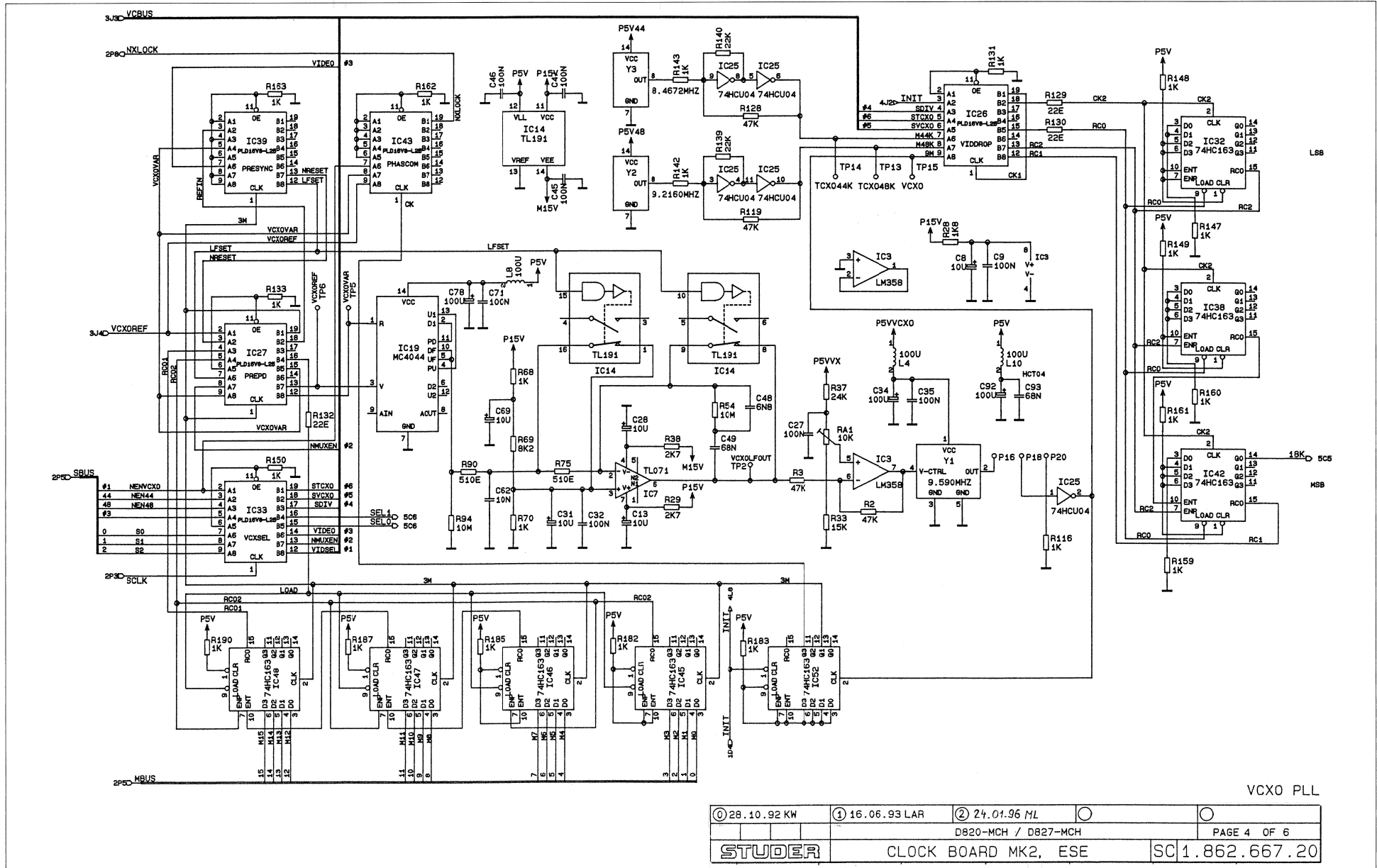
CLOCK BOARD MKII 1.862.667.20



|                     |                |                      |                 |   |  |
|---------------------|----------------|----------------------|-----------------|---|--|
| ① 28.10.92 KW       | ① 16.06.93 LAR | ② 24.01.96 ML        | ○               | ○ |  |
| D820-MCH / D827-MCH |                |                      | PAGE 3 OF 6     |   |  |
| <b>STUDER</b>       |                | CLOCK BOARD MK2, ESE | SC 1.862.667.20 |   |  |

STUDER D827 MCH

CLOCK BOARD MKII 1.862.667.20



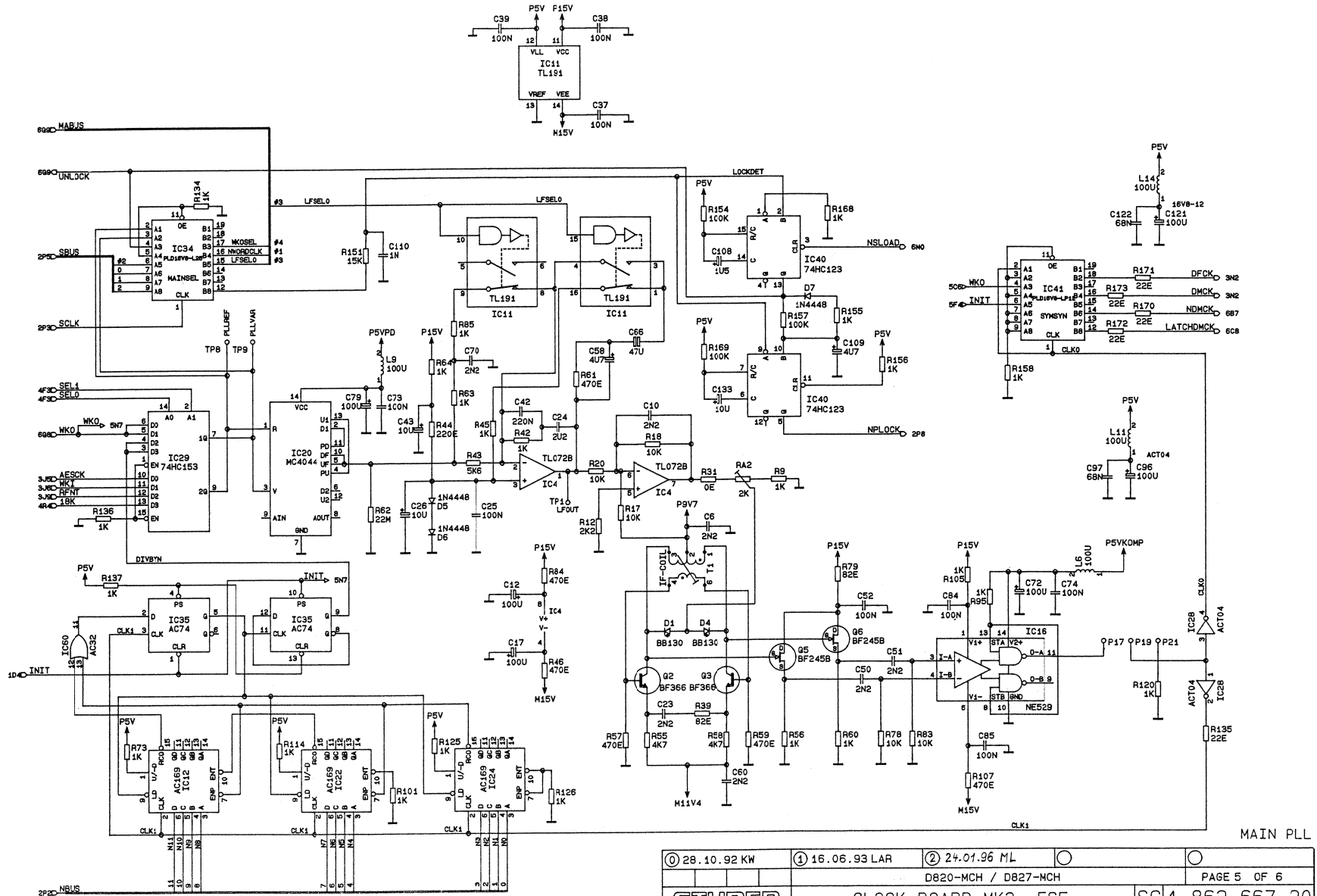
VCXO PLL

|                     |                |                      |             |                 |
|---------------------|----------------|----------------------|-------------|-----------------|
| ① 28.10.92 KW       | ① 16.06.93 LAR | ② 24.01.96 ML        | ○           | ○               |
| D820-MCH / D827-MCH |                |                      | PAGE 4 OF 6 |                 |
| <b>STUDER</b>       |                | CLOCK BOARD MK2, ESE |             | SC 1.862.667.20 |

STUDER D827 MCH

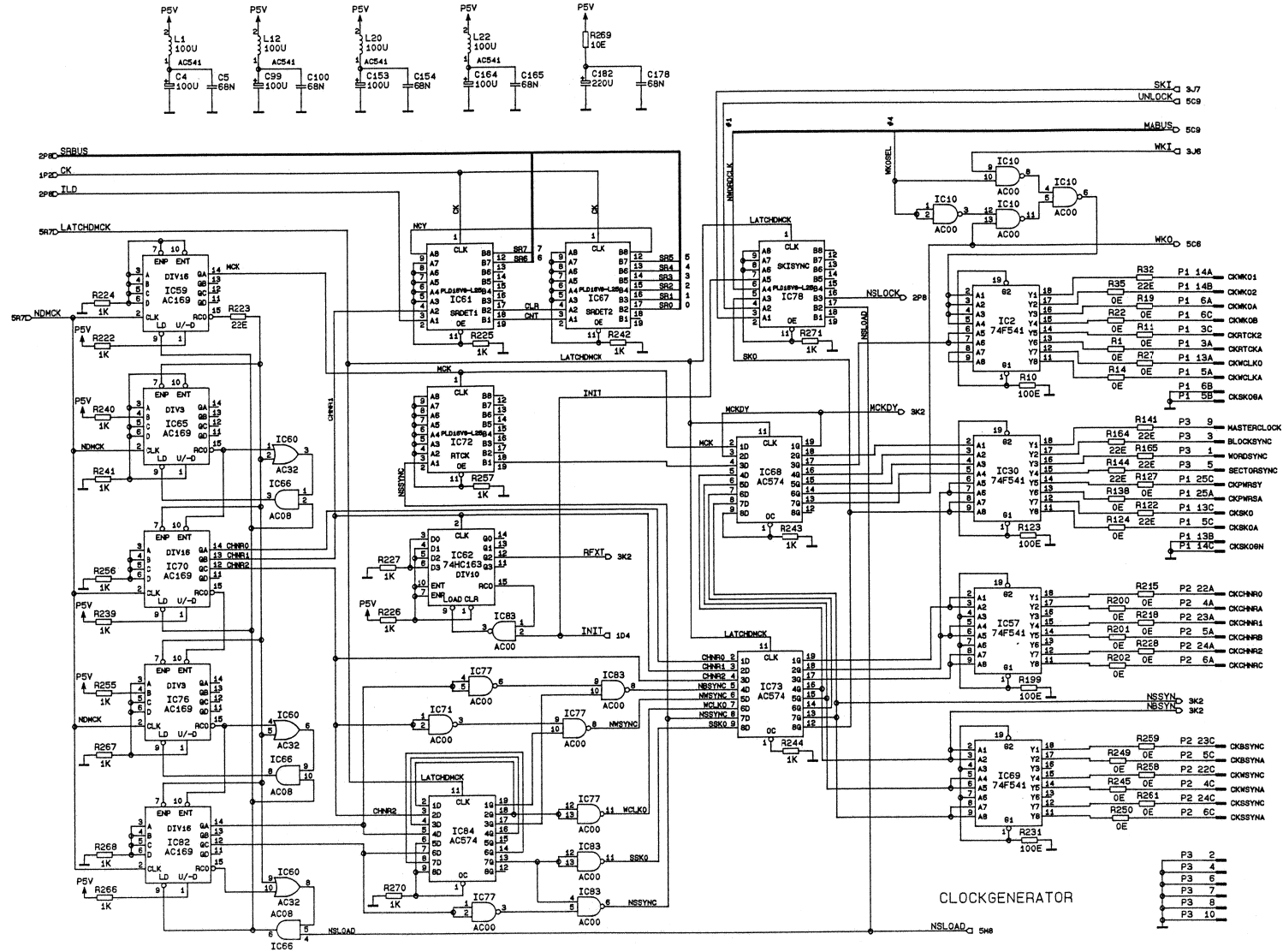


CLOCK BOARD MKII 1.862.667.20



|                     |                |                      |                 |   |
|---------------------|----------------|----------------------|-----------------|---|
| ① 28.10.92 KW       | ① 16.06.93 LAR | ② 24.01.96 ML        | ○               | ○ |
| D820-MCH / D827-MCH |                |                      | PAGE 5 OF 6     |   |
| <b>STUDER</b>       |                | CLOCK BOARD MK2, ESE | SC 1.862.667.20 |   |

CLOCK BOARD MKII 1.862.667.20

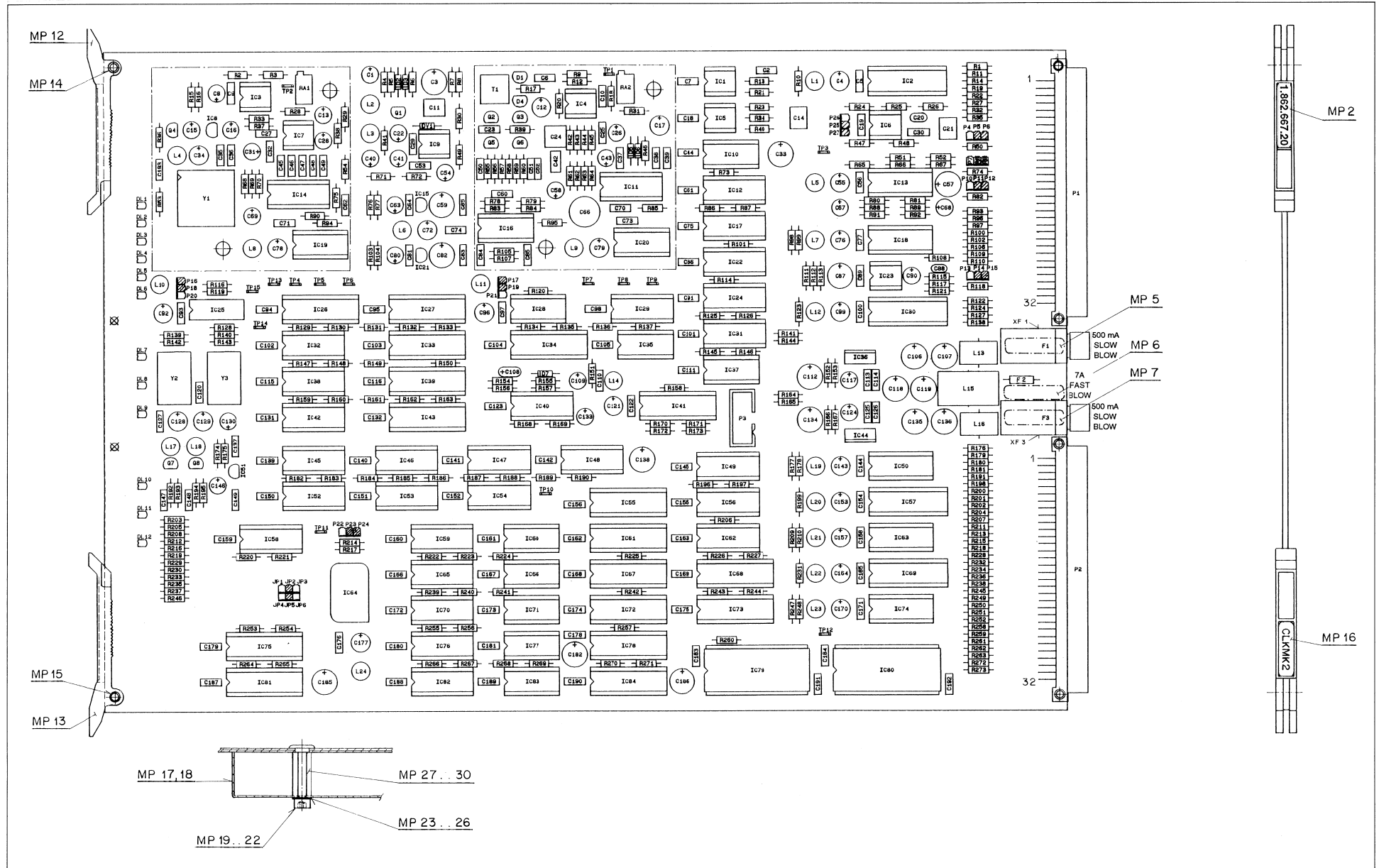


|                     |                |                      |                 |   |
|---------------------|----------------|----------------------|-----------------|---|
| ① 28.10.92 KW       | ① 16.06.93 LAR | ② 24.01.96 ML        | ○               | ○ |
| D820-MCH / D827-MCH |                | PAGE 6 OF 6          |                 |   |
| <b>STUDER</b>       |                | CLOCK BOARD MK2, ESE | SC 1.862.667.20 |   |

STUDER D827 MCH



CLOCK BOARD MKII 1.862.667.20



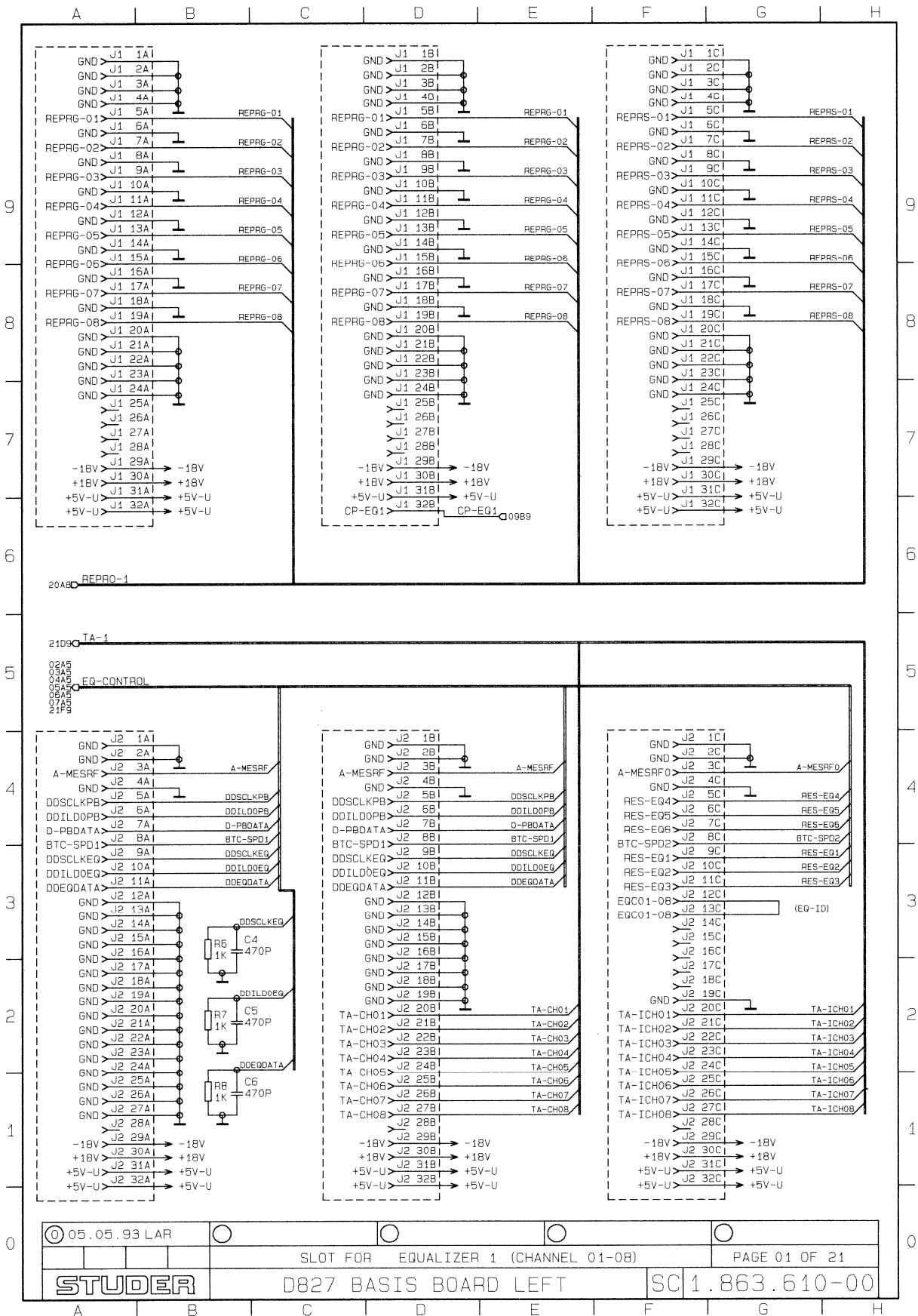






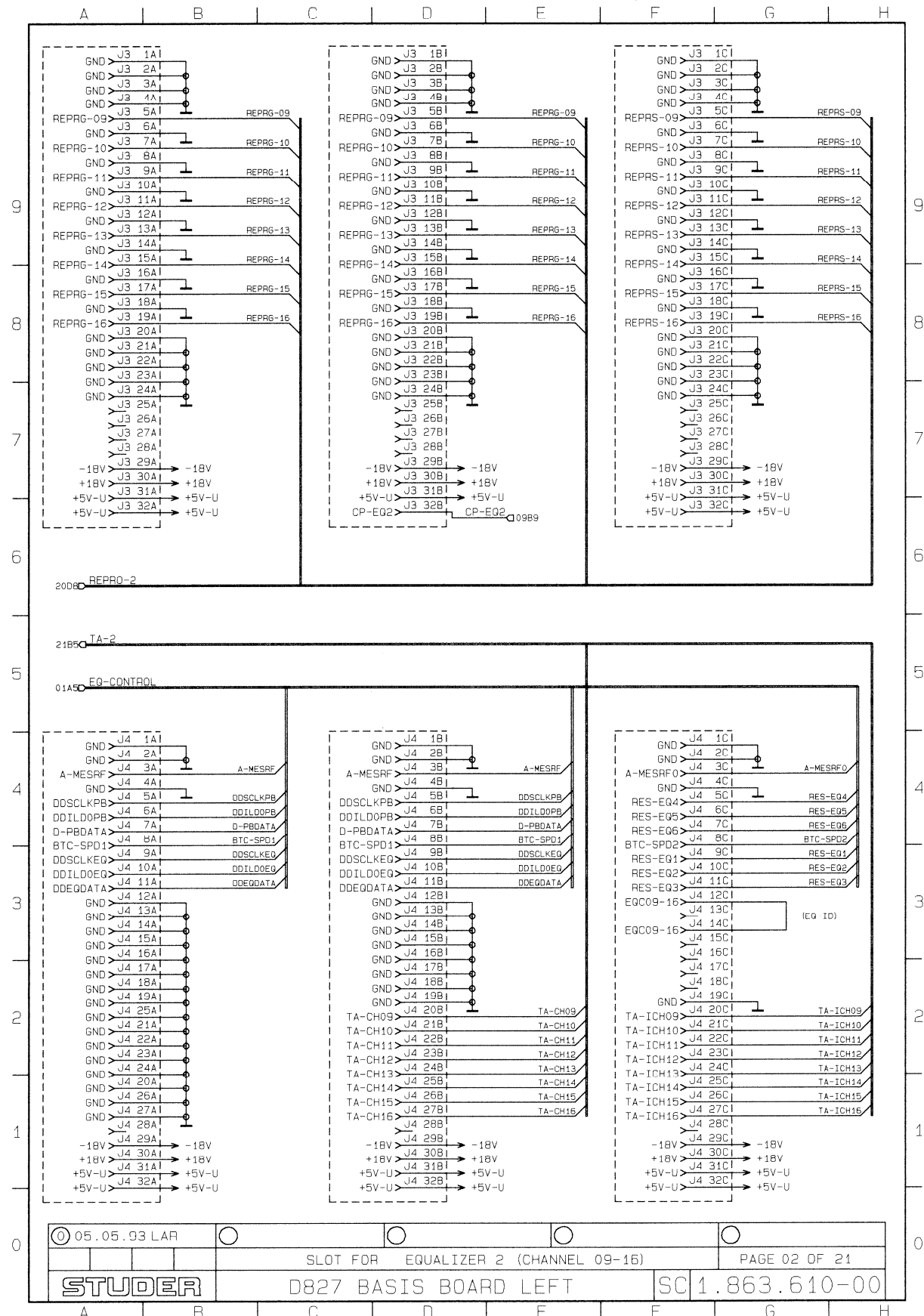


**BASIS BOARD LEFT 1.863.610.00**  
 -Slot For Equalizer 1 (Channel 01-08)

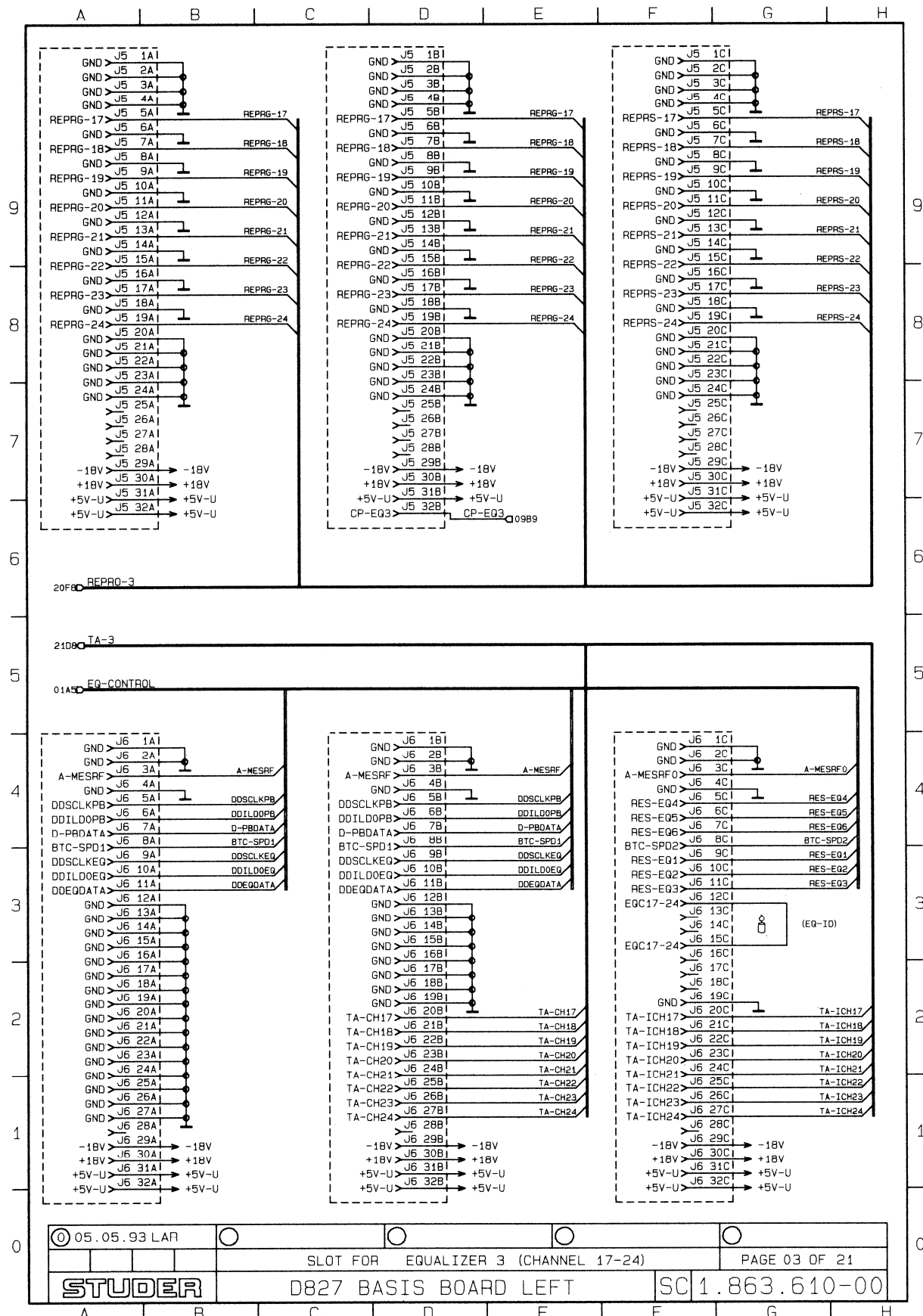


# STUDER D827 MCH

## BASIS BOARD LEFT 1.863.610.00 -Slot For Equalizer 2 (Channel 09-16)

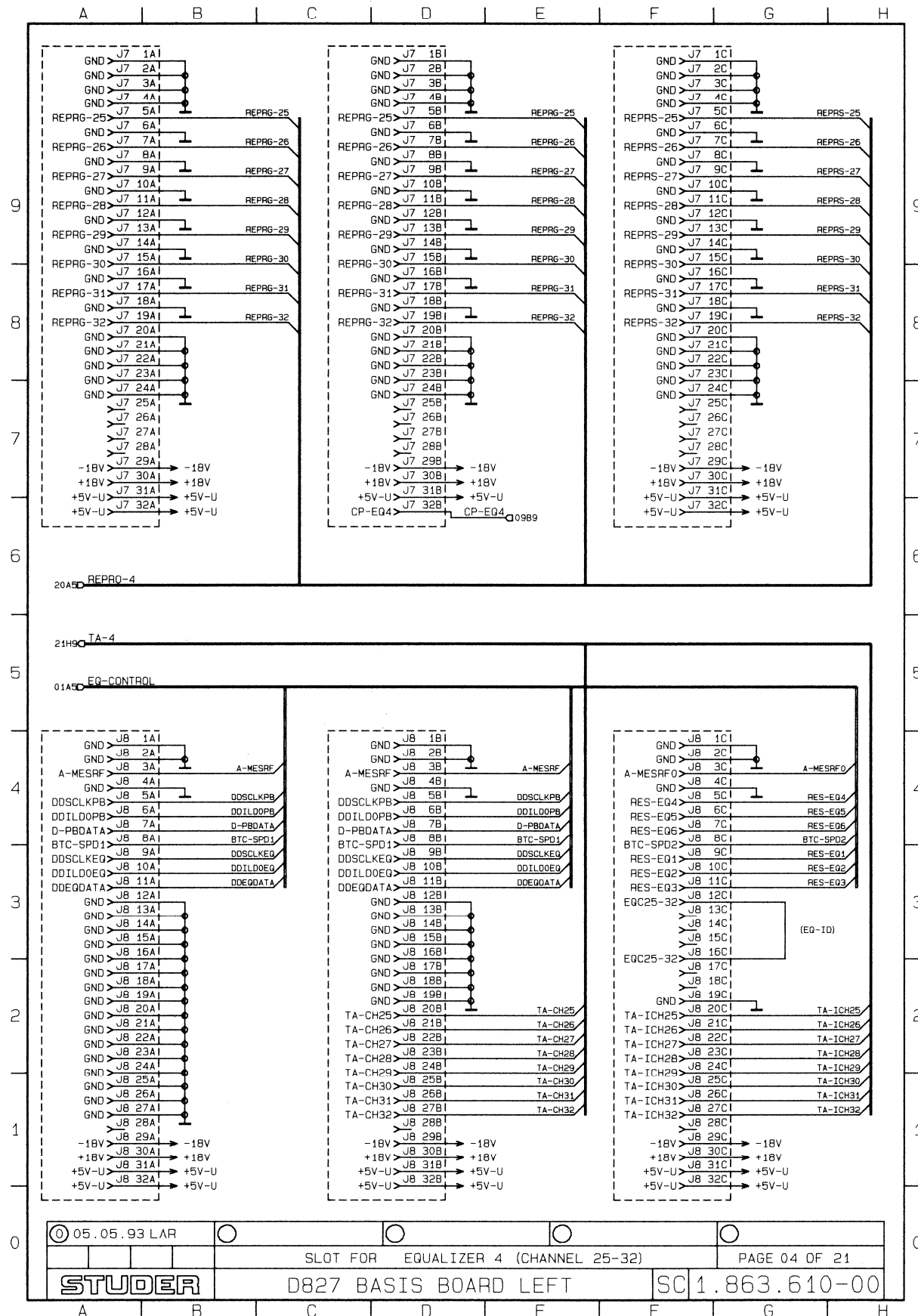


**BASIS BOARD LEFT 1.863.610.00**  
 -Slot For Equalizer 3 (Channel 17-24)

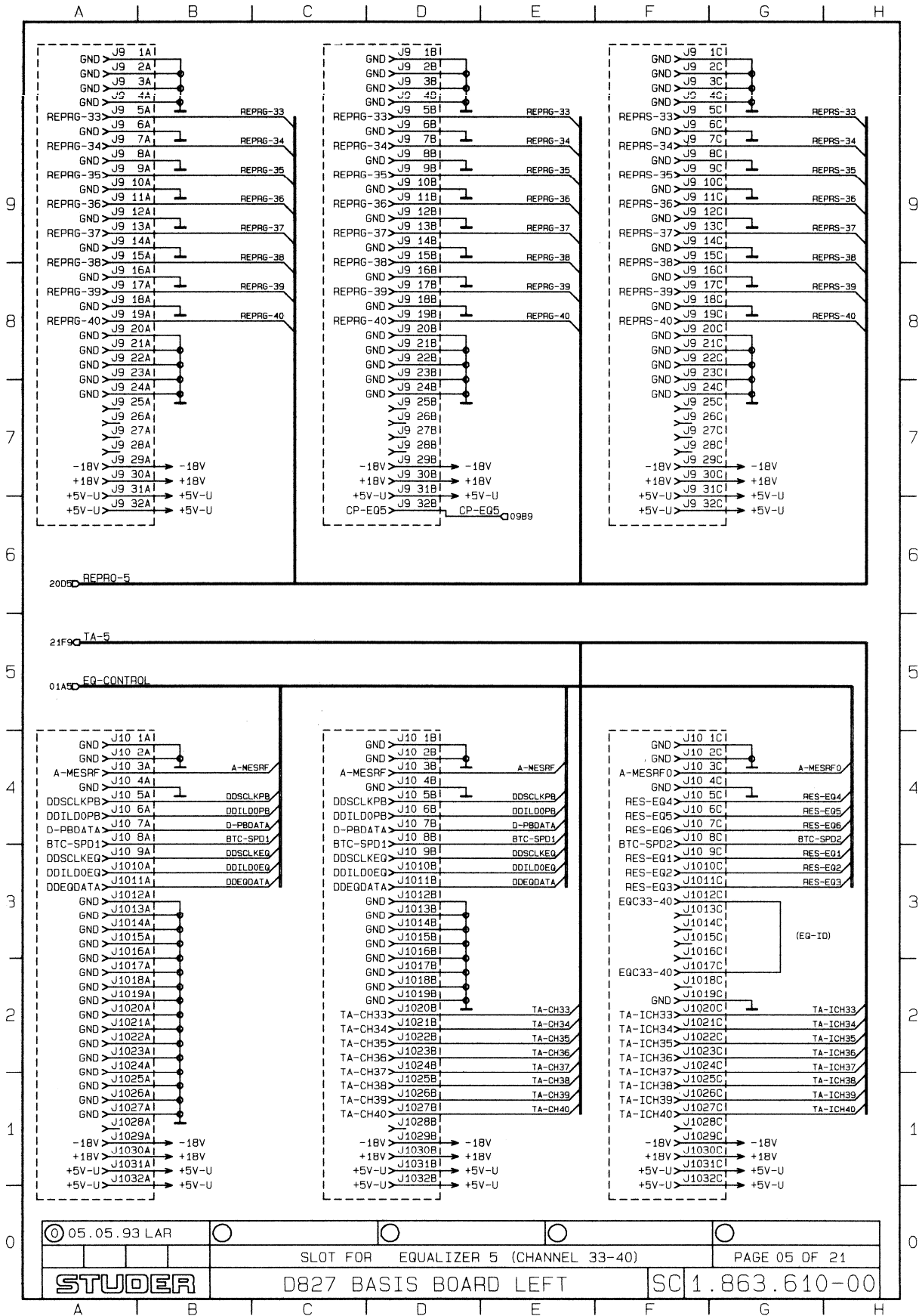


# STUDER D827 MCH

## BASIS BOARD LEFT 1.863.610.00 -Slot For Equalizer 4 (Channel 25-32)

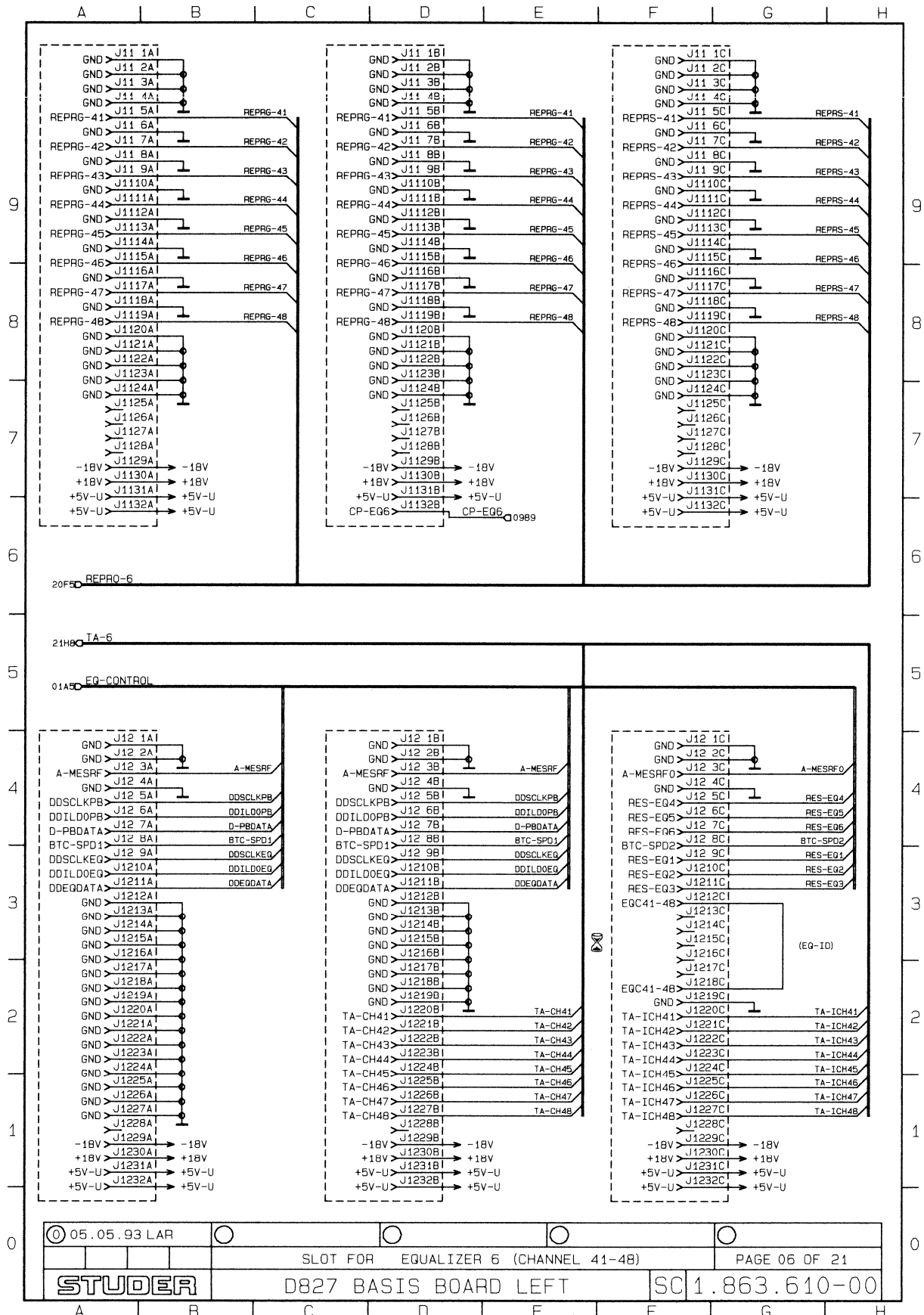


**BASIS BOARD LEFT 1.863.610.00**  
 -Slot For Equalizer 5 (Channel 33-40)

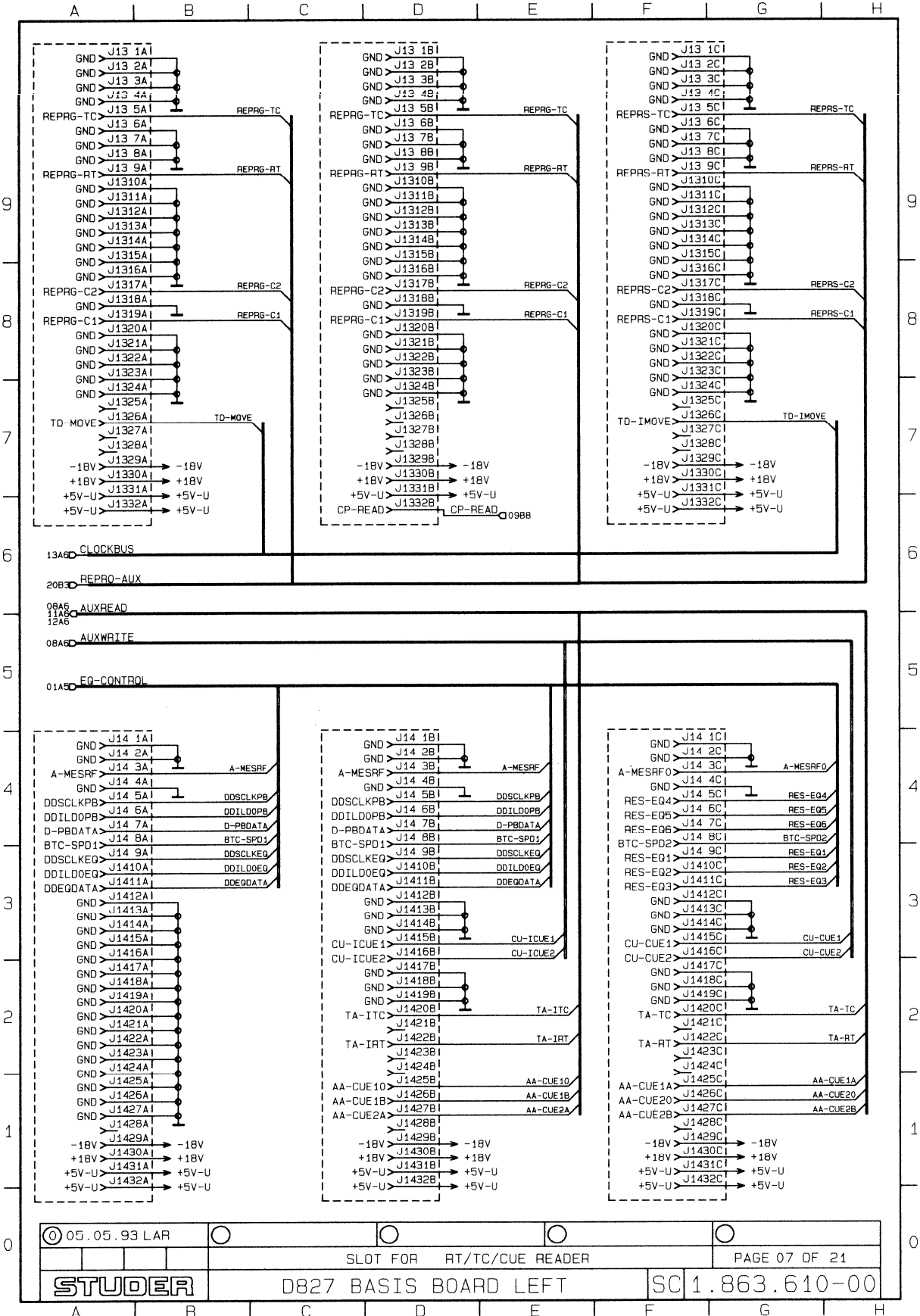




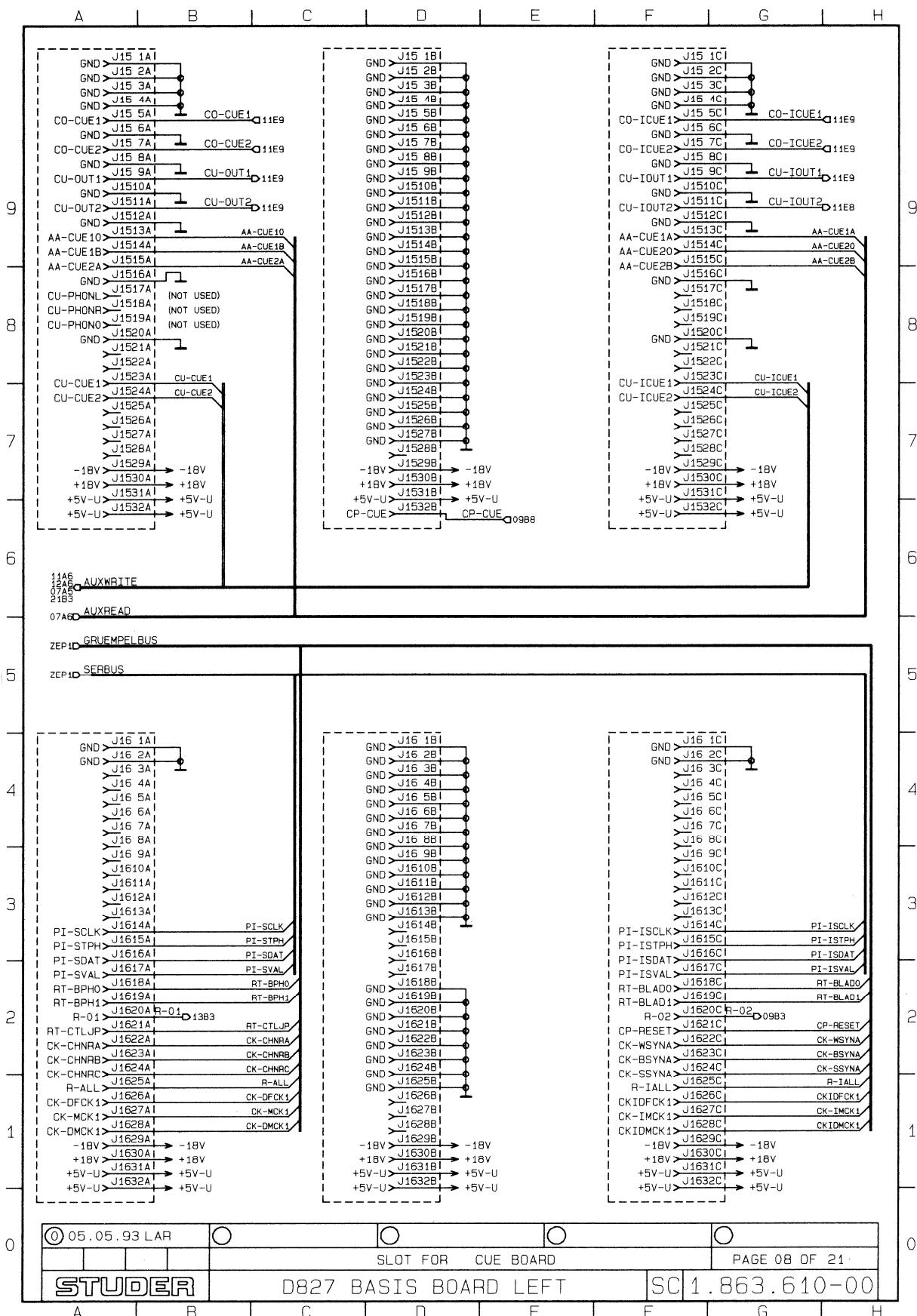
**BASIS BOARD LEFT 1.863.610.00**  
 -Slot For Equalizer 6 (Channel 41-48)



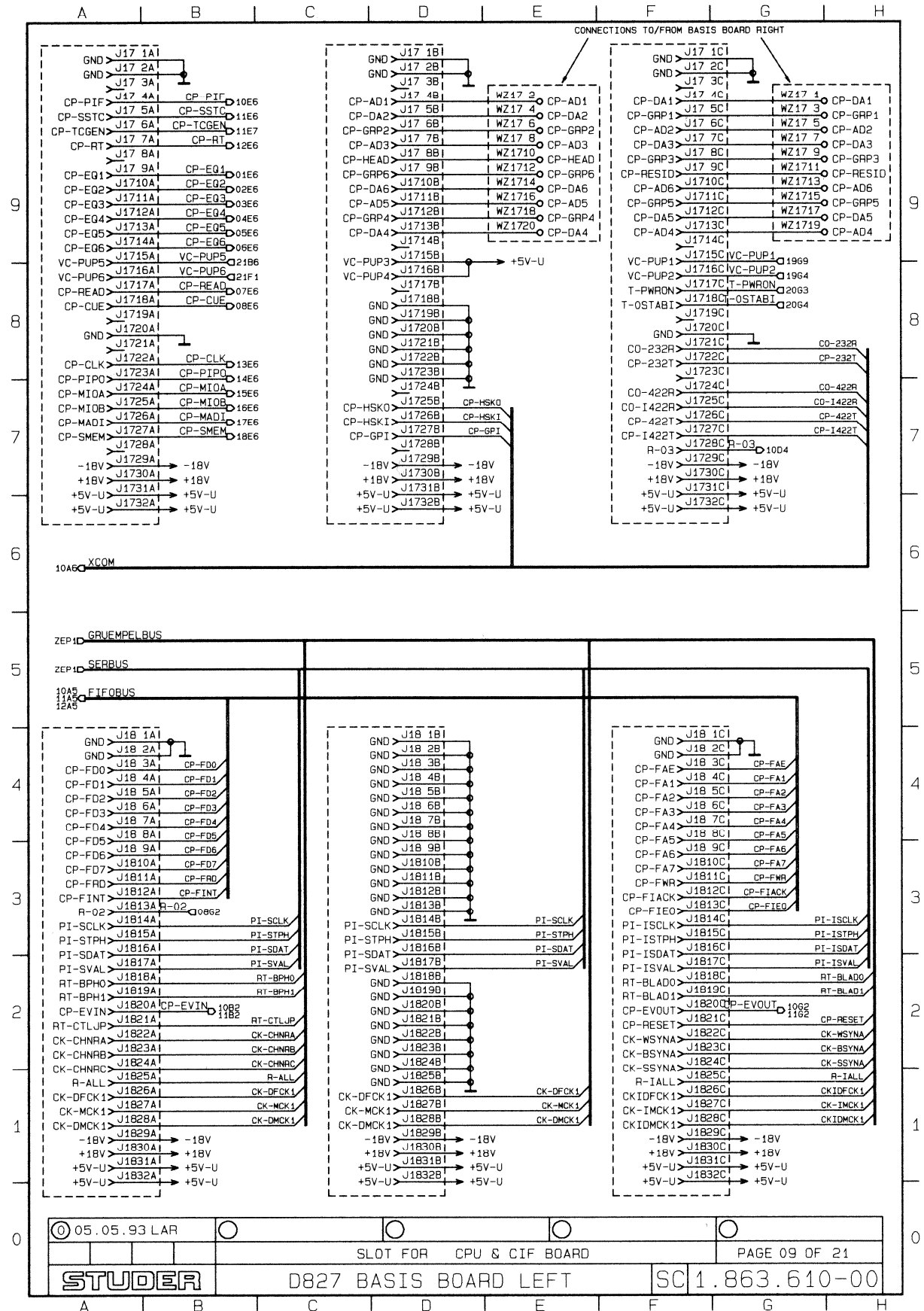
BASIS BOARD LEFT 1.863.610.00  
-Slot For RT / TC / CUE Reader



**BASIS BOARD LEFT 1.863.610.00**  
-Slot For CUE Board

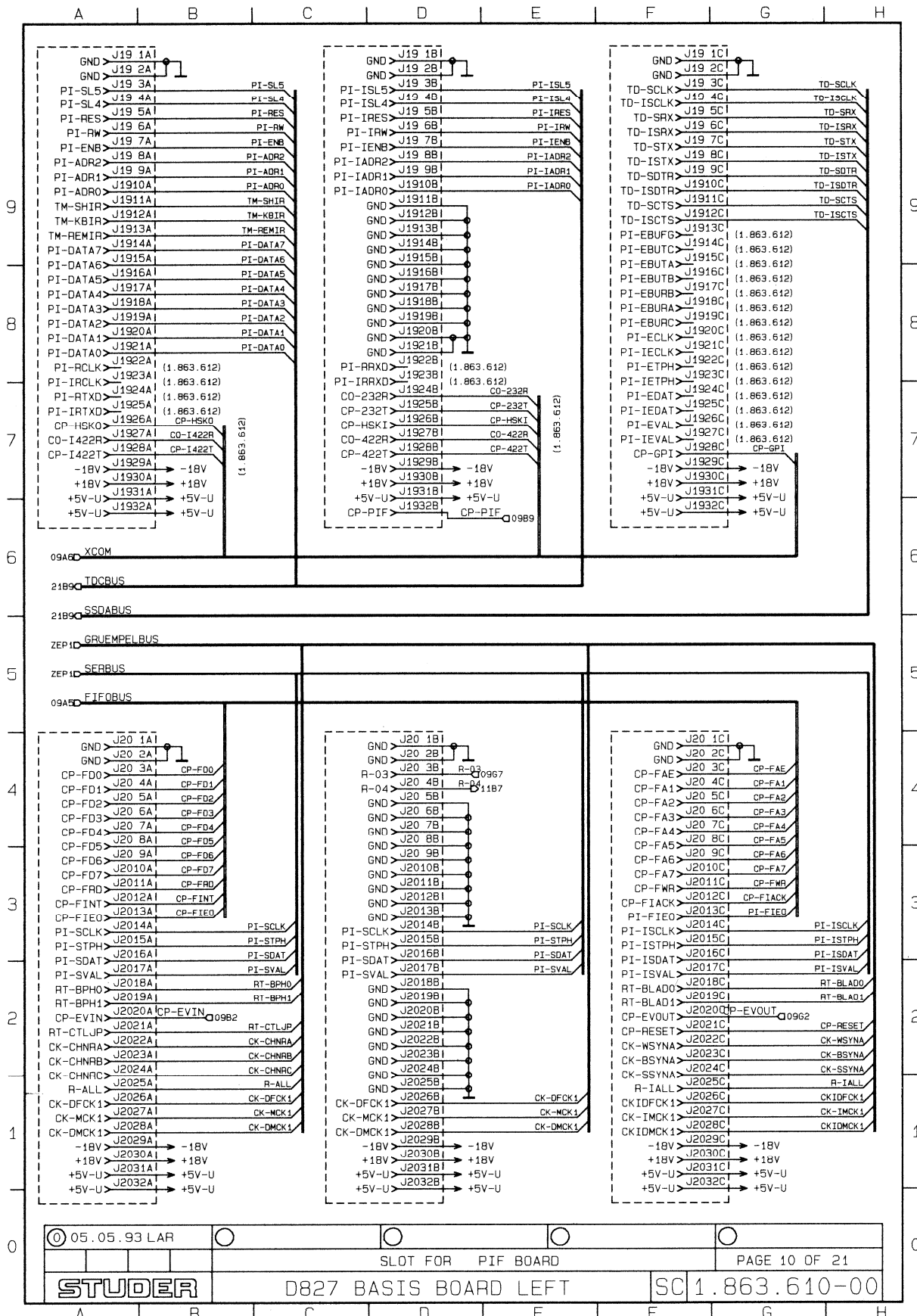


**BASIS BOARD LEFT 1.863.610.00**  
 -Slot For CPU & CIF Board

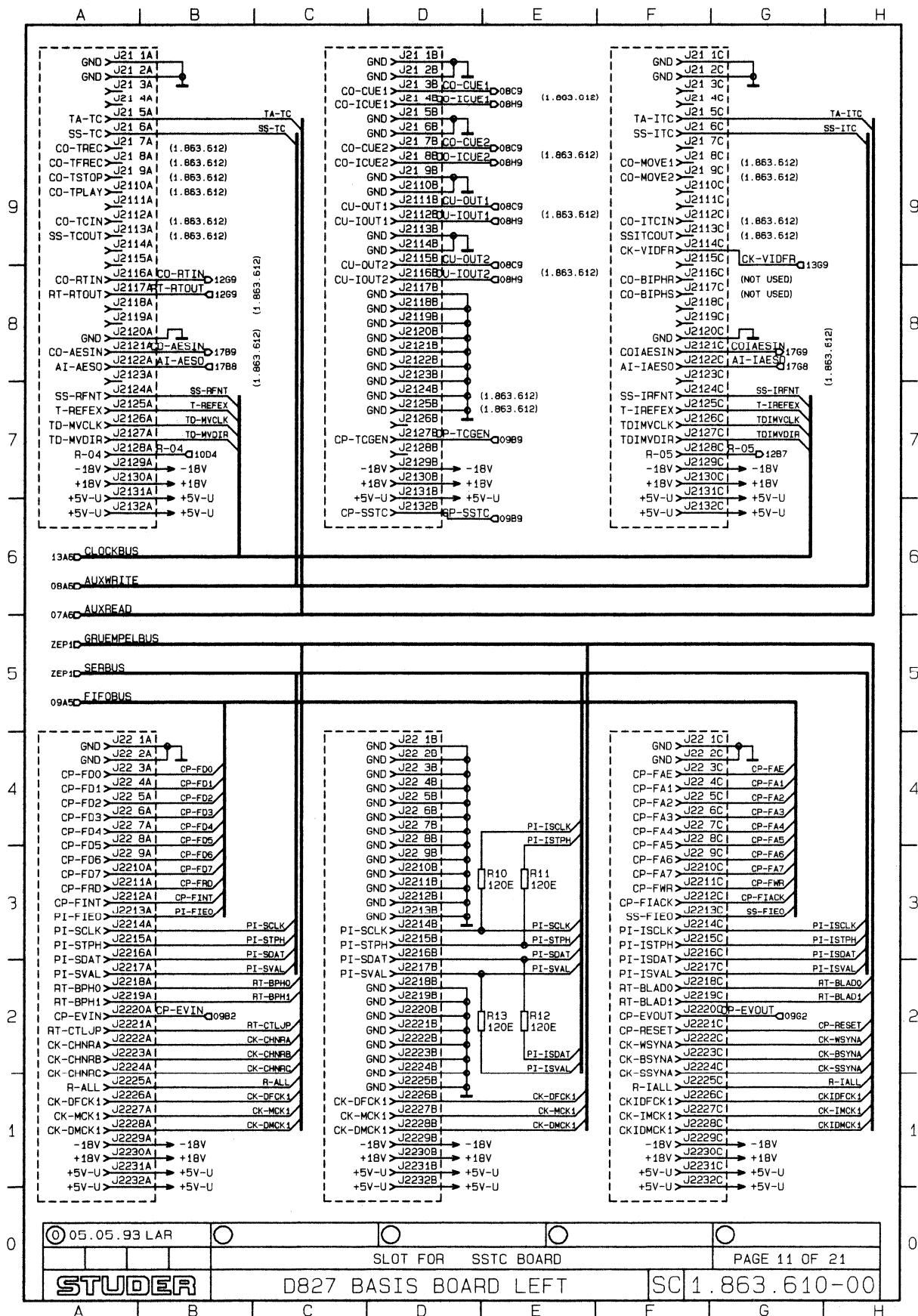


BASIS BOARD LEFT 1.863.610.00

-Slot For PIF Board

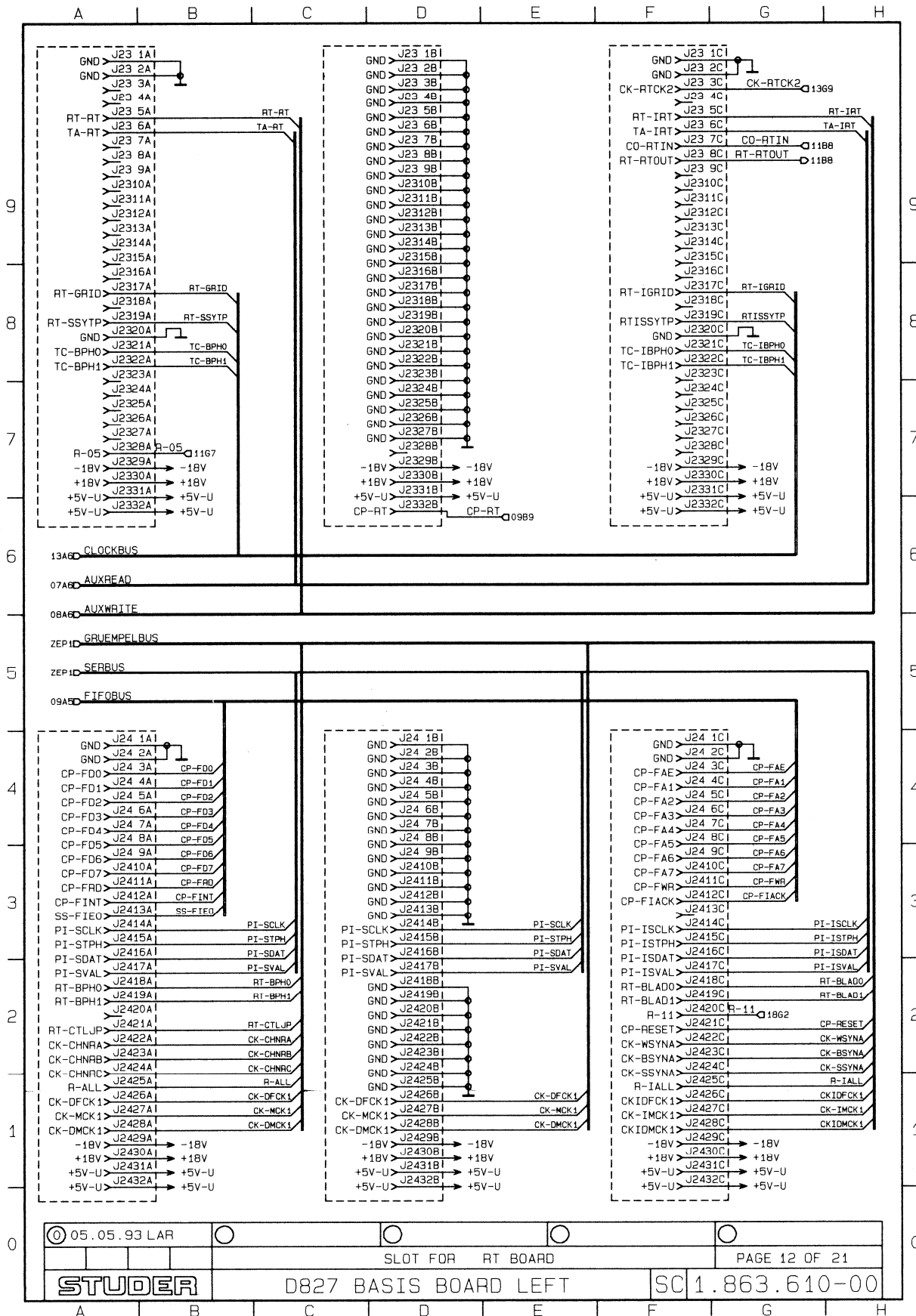


**BASIS BOARD LEFT 1.863.610.00**  
-Slot For SSTC Board

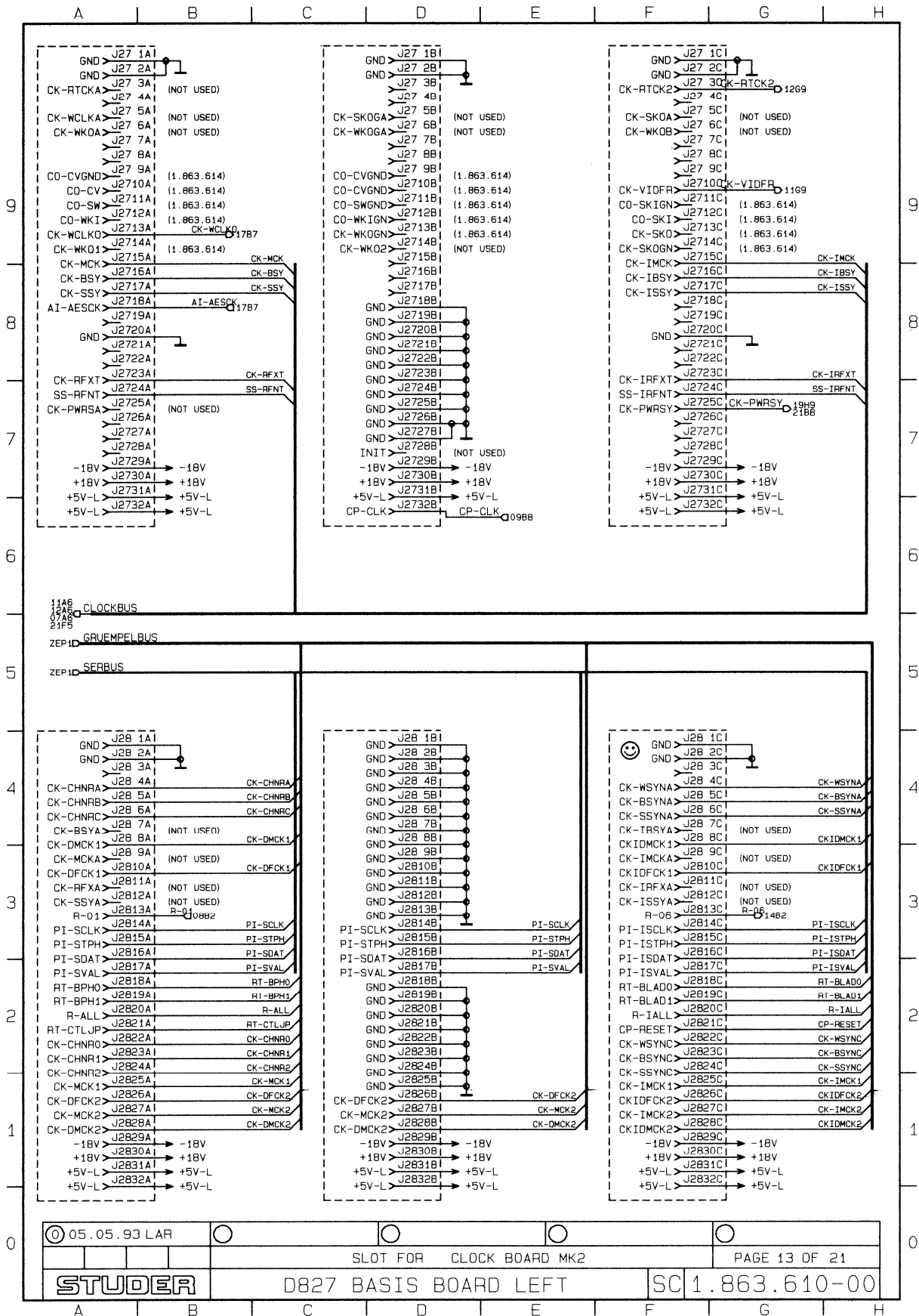


BASIS BOARD LEFT 1.863.610.00

-Slot For RT Board

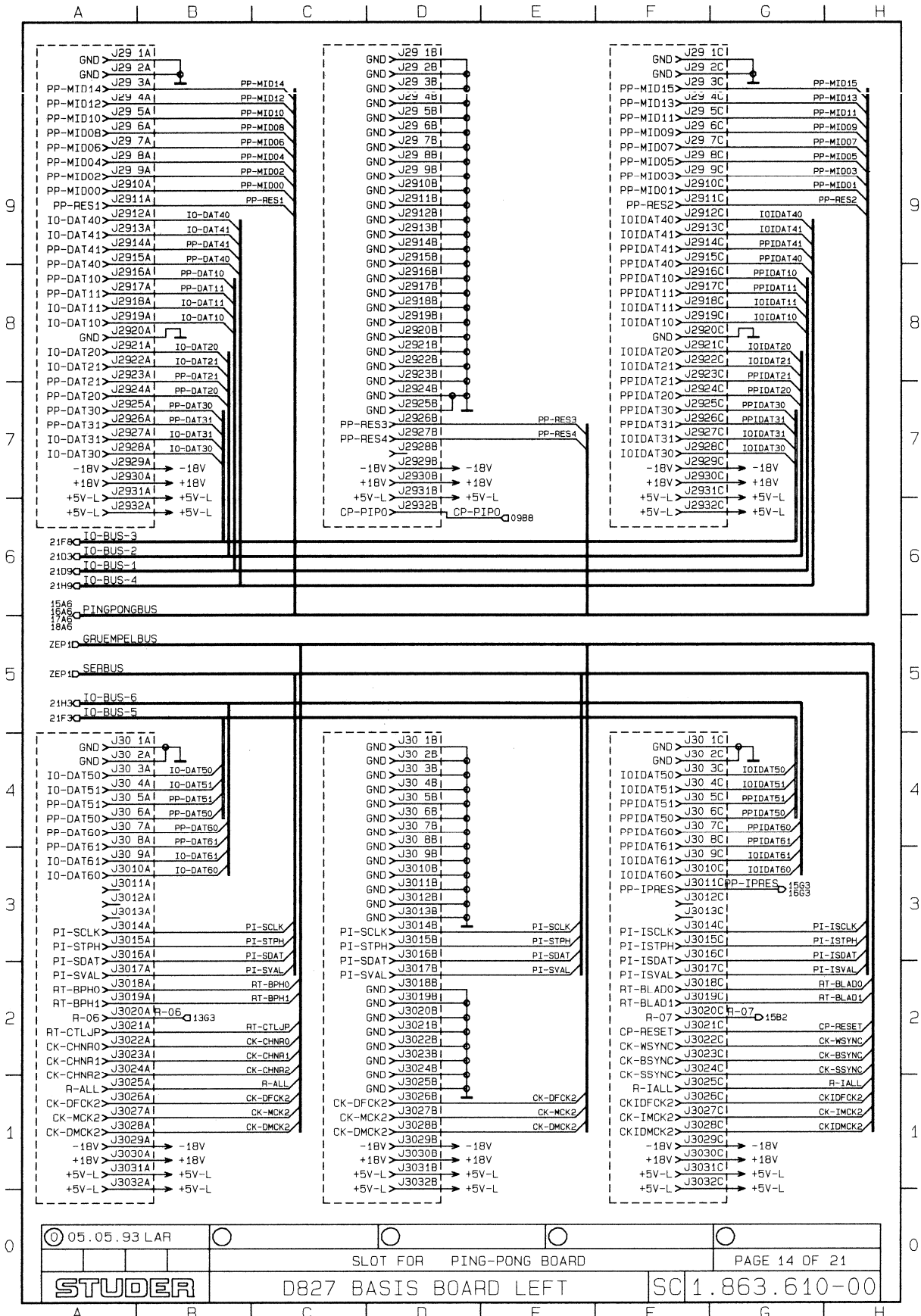


**BASIS BOARD LEFT 1.863.610.00**  
 -Slot For Clock Board MKII





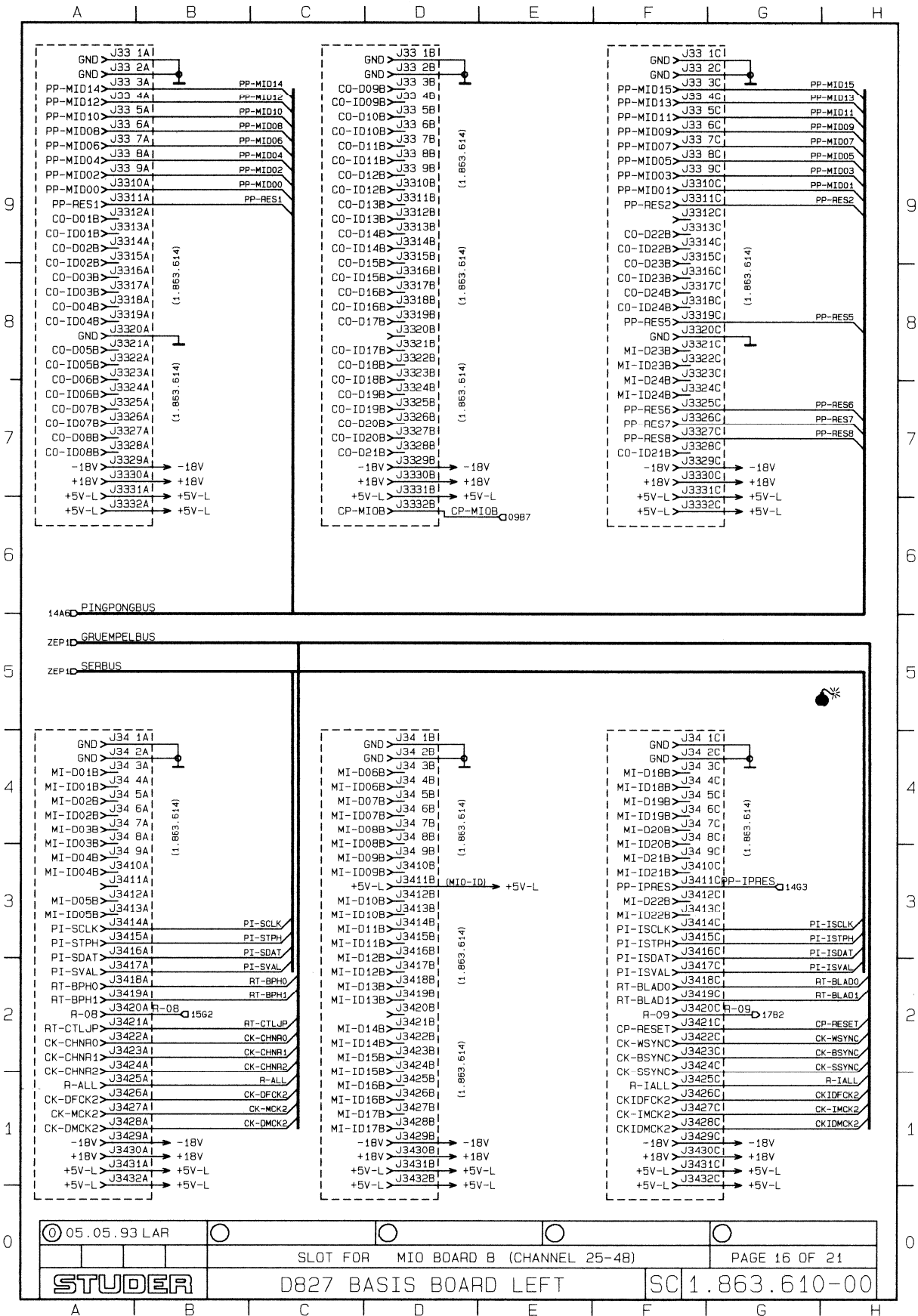
**BASIS BOARD LEFT 1.863.610.00**  
-Slot For Ping Pong Board



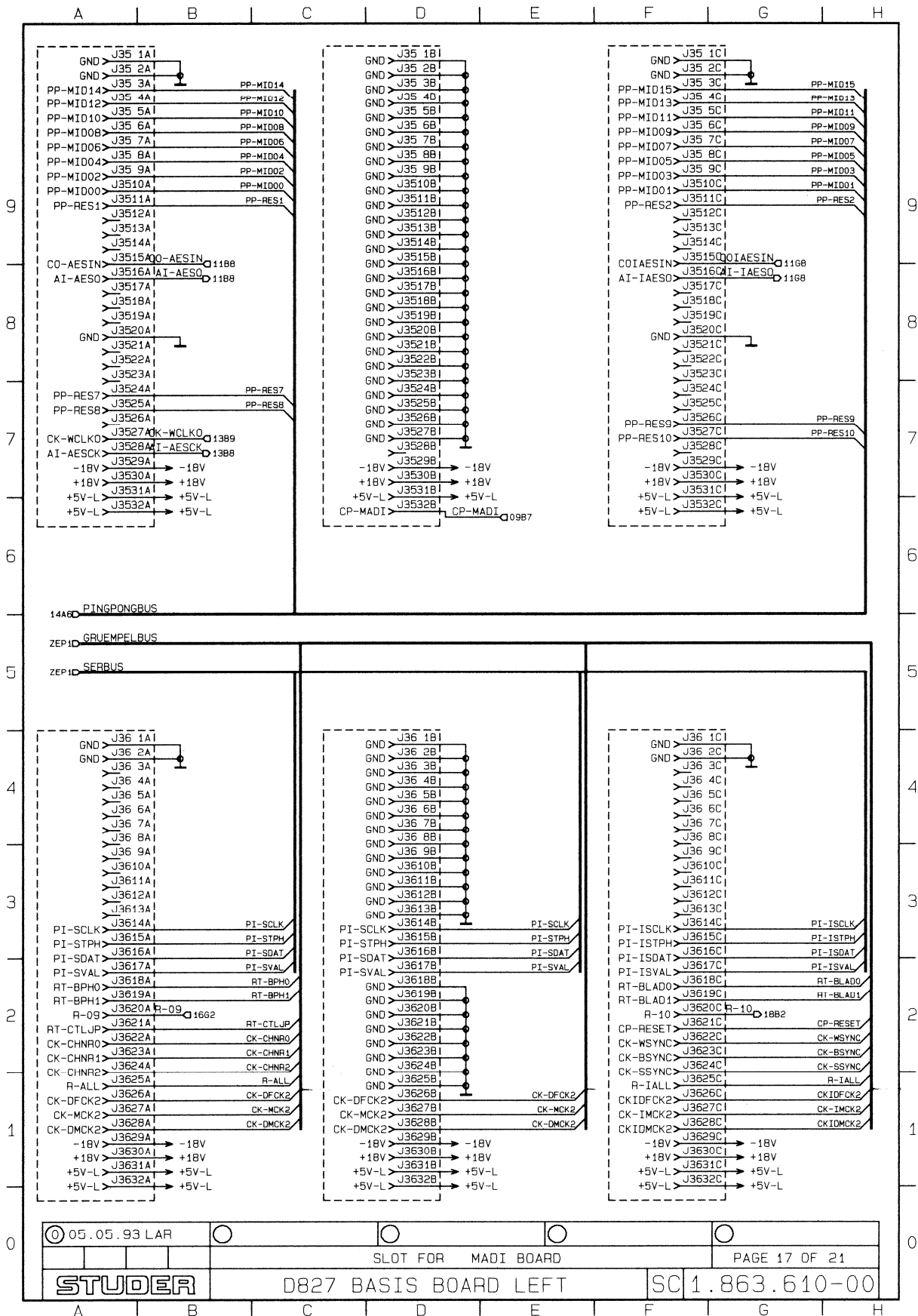


STUDER D827 MCH

BASIS BOARD LEFT 1.863.610.00  
-Slot For MIO Board B (Channel 25-48)



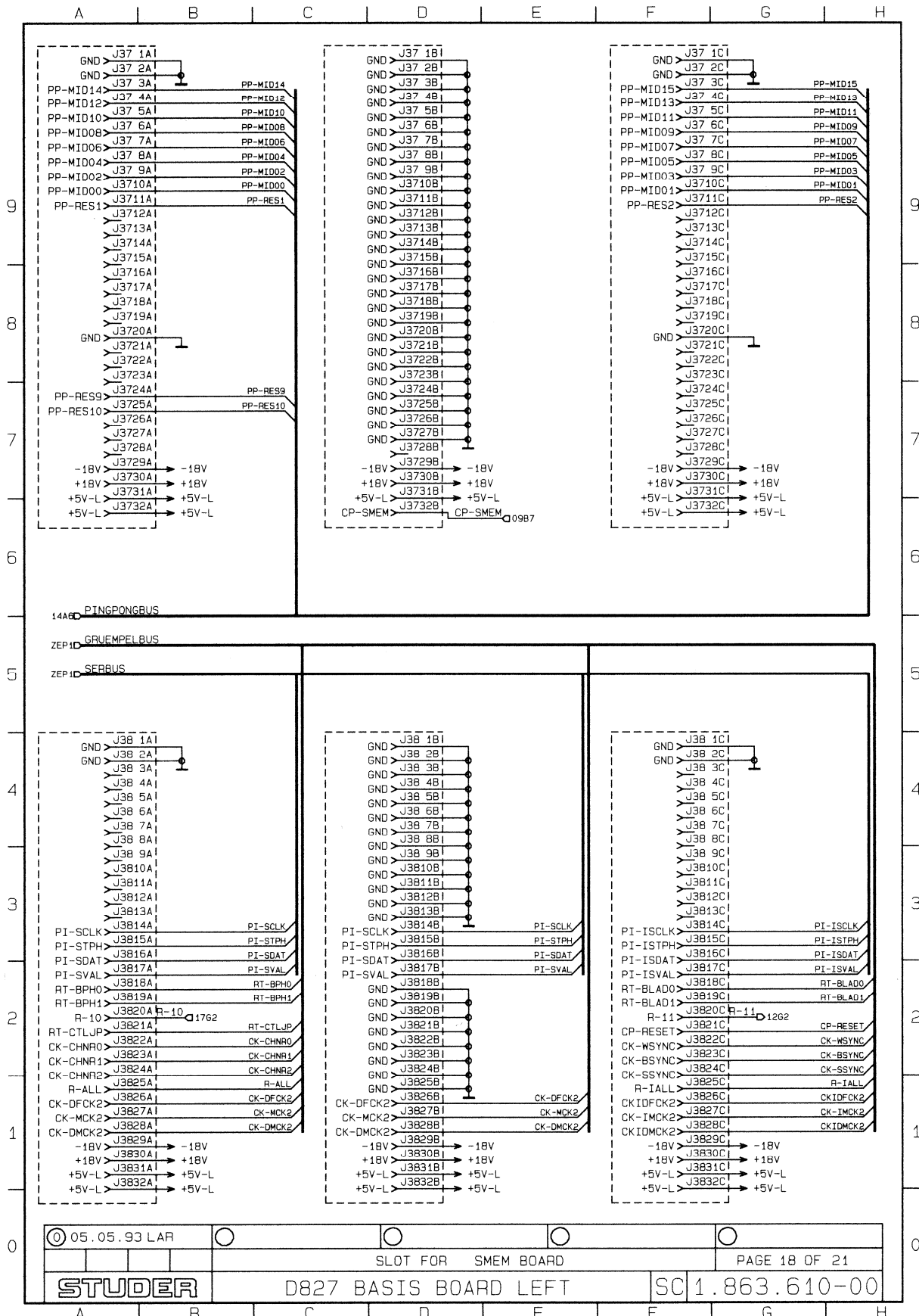
**BASIS BOARD LEFT 1.863.610.00**  
-Slot For Madi Board



# STUDER D827 MCH

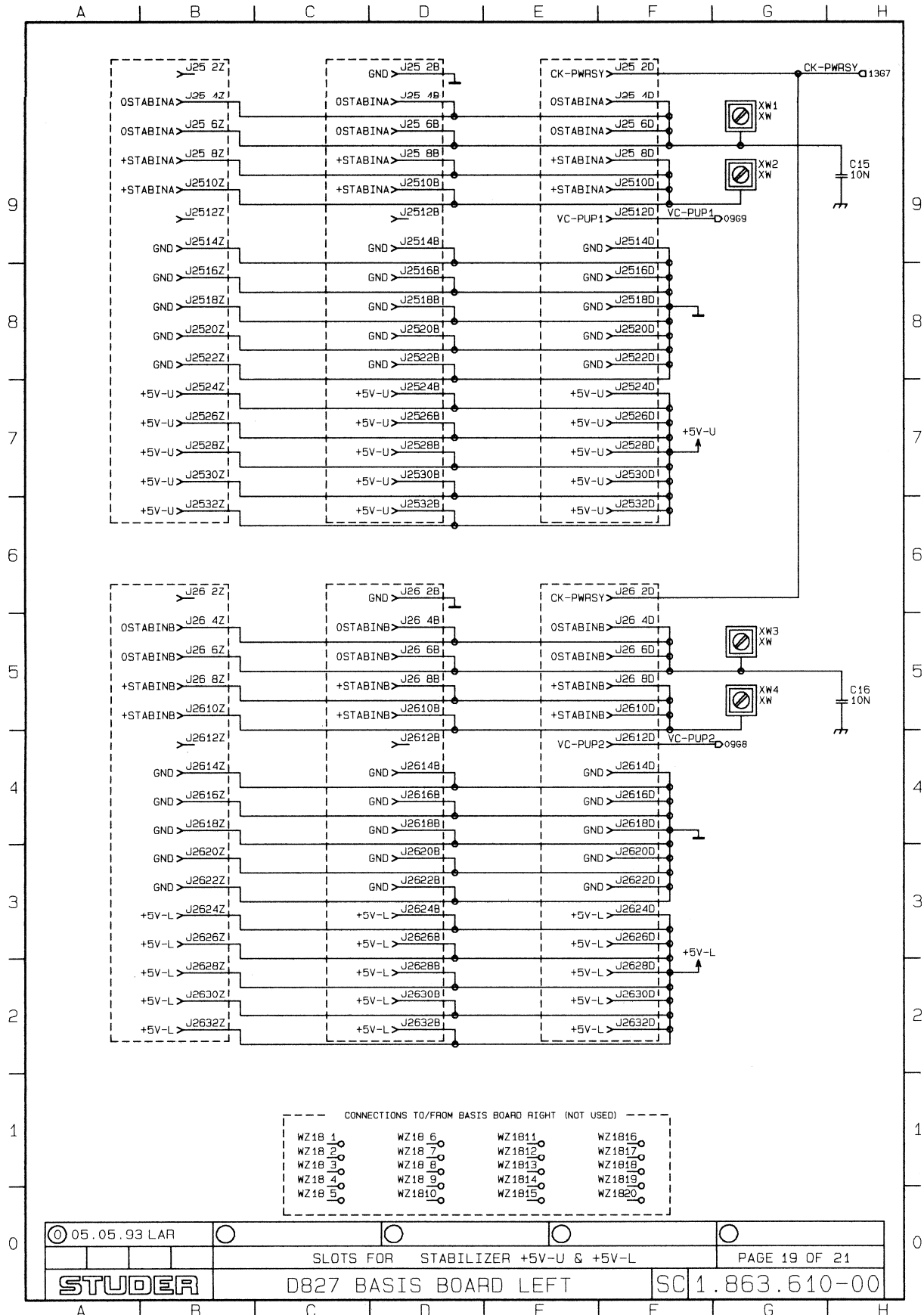
## BASIS BOARD LEFT 1.863.610.00

-Slot For SMEM Board

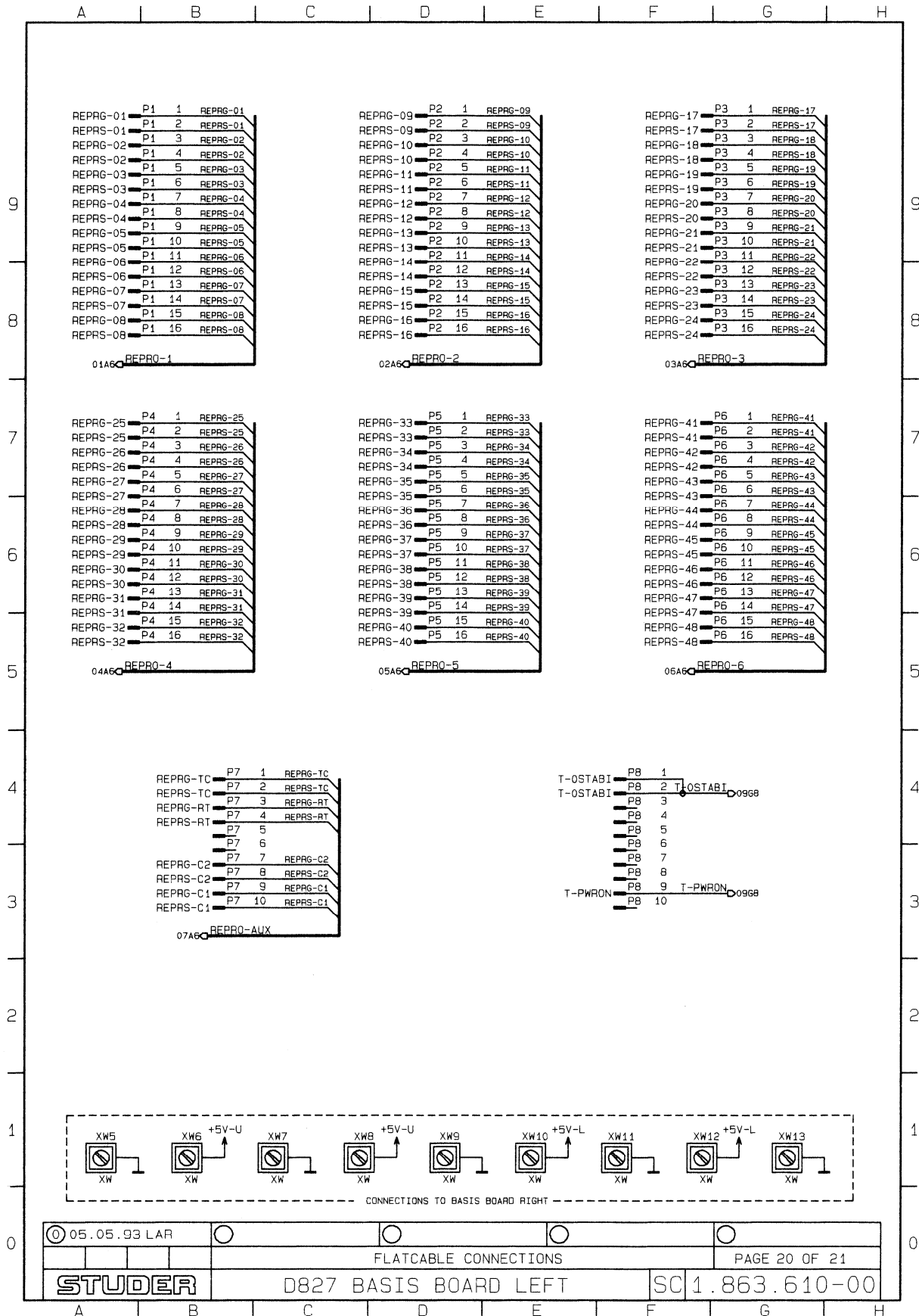


**BASIS BOARD LEFT 1.863.610.00**

-Slot For Stabilizer +5V-U & +5V-L

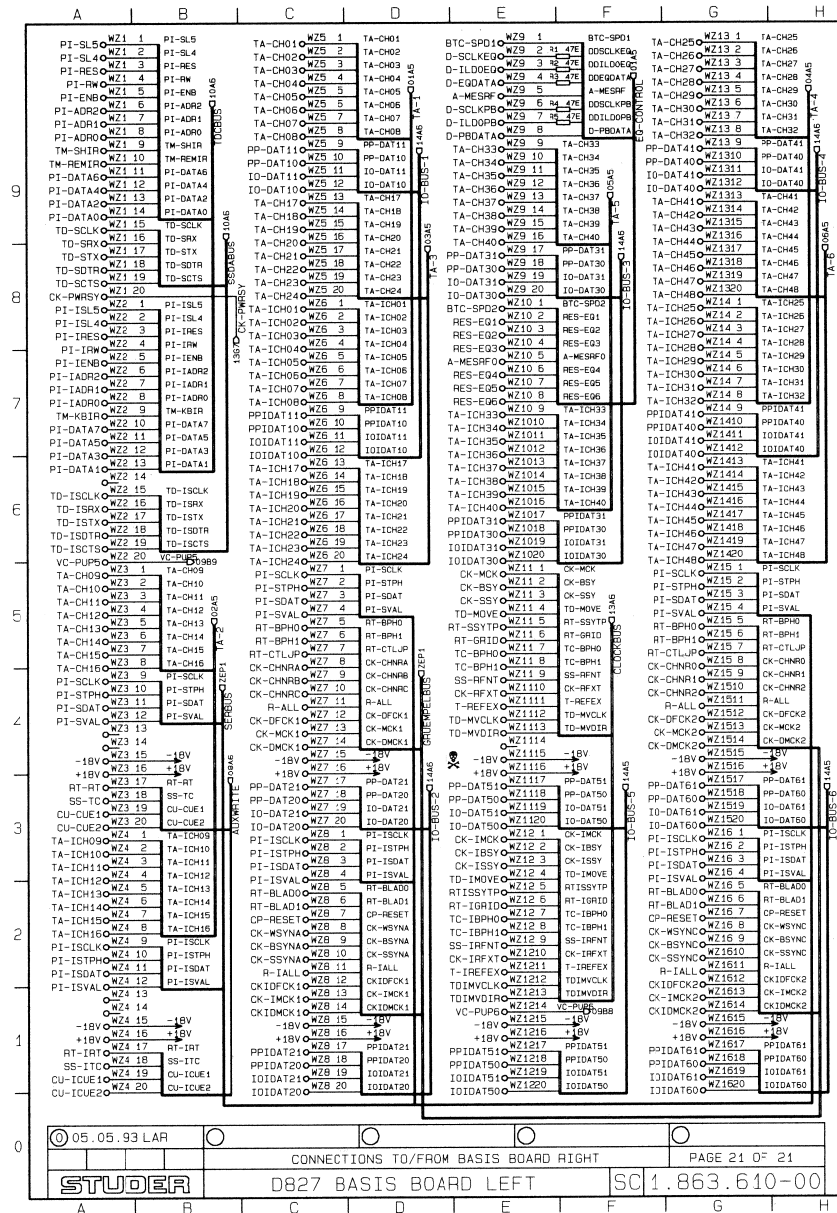


**BASIS BOARD LEFT 1.863.610.00**  
-Flatcable Connections



BASIS BOARD LEFT 1.863.610.00

-Connections To / From Basis Board Right





BASIS BOARD LEFT 1.863.610.00

component side

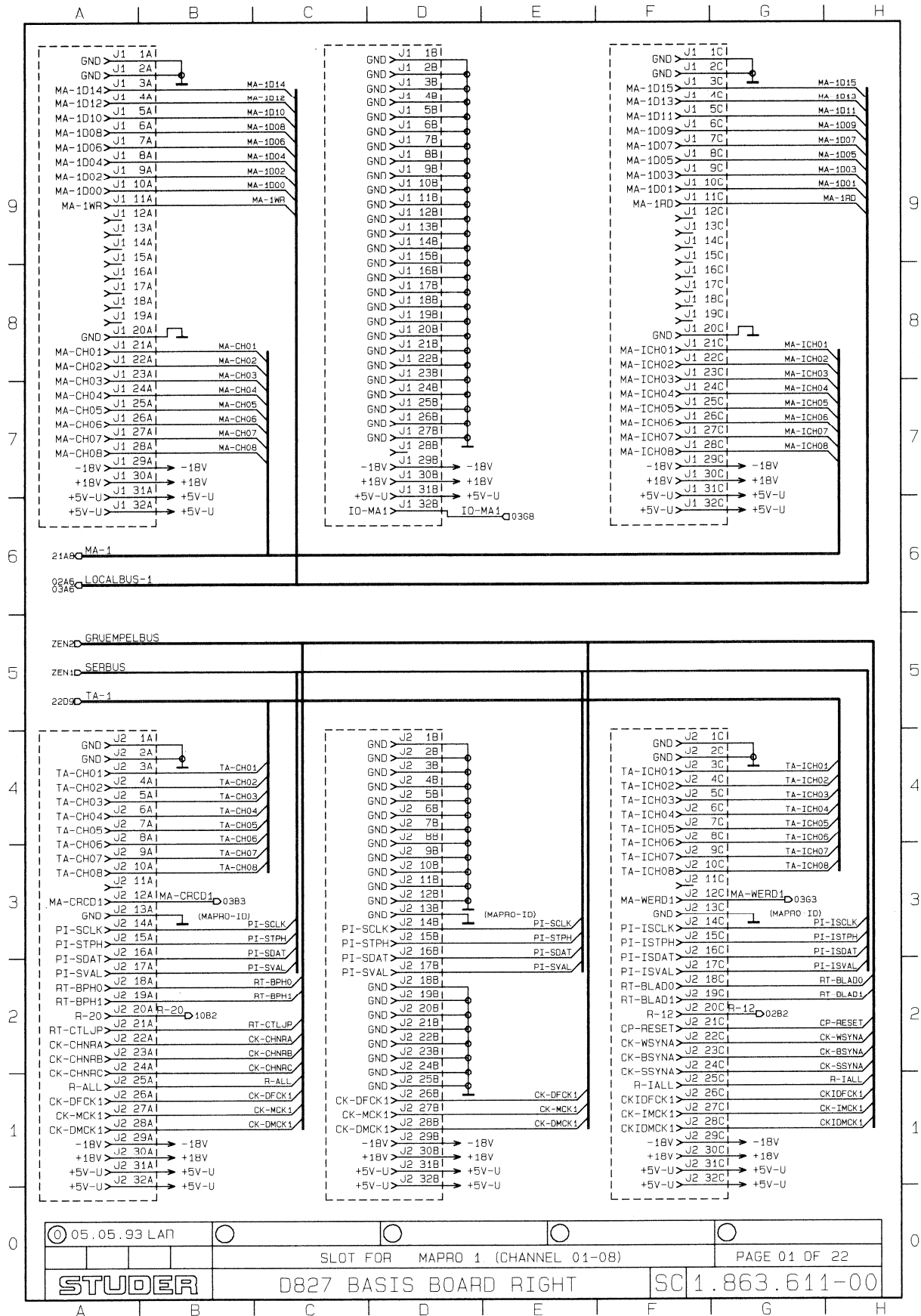
soldering side

| Ad       | ..POS..      | ..REF.No.. | DESCRIPTION                               | MANUFACTURER |
|----------|--------------|------------|---|--------------|
| C....4   | 59.05.2471   | 470p       | +/-2.5%, 630V                             |              |
| C....5   | 59.05.2471   | 470p       | +/-2.5%, 630V                             |              |
| C....6   | 59.05.2471   | 10n        | +/-2.5%, 63V                              |              |
| C...15   | 59.05.2103   | 10n        | +/-2.5%, 63V                              |              |
| C...16   | 59.05.2103   | 10n        | +/-2.5%, 63V                              |              |
| J....1   | 54.11.2011   |            | Euro 3x32 Action-Pin (AMP 215786-4)       |              |
| J....2   | 54.11.2011   |            | Euro 3x32 Action-Pin (AMP 215786-4)       |              |
| J....3   | 54.11.2011   |            | Euro 3x32 Action-Pin (AMP 215786-4)       |              |
| J....4   | 54.11.2011   |            | Euro 3x32 Action-Pin (AMP 215786-4)       |              |
| J....5   | 54.11.2011   |            | Euro 3x32 Action-Pin (AMP 215786-4)       |              |
| J....6   | 54.11.2011   |            | Euro 3x32 Action-Pin (AMP 215786-4)       |              |
| J....7   | 54.11.2011   |            | Euro 3x32 Action-Pin (AMP 215786-4)       |              |
| J....8   | 54.11.2011   |            | Euro 3x32 Action-Pin (AMP 215786-4)       |              |
| J....9   | 54.11.2011   |            | Euro 3x32 Action-Pin (AMP 215786-4)       |              |
| J....10  | 54.11.2011   |            | Euro 3x32 Action-Pin (AMP 215786-4)       |              |
| J...11   | 54.11.2011   |            | Euro 3x32 Action-Pin (AMP 215786-4)       |              |
| J...12   | 54.11.2011   |            | Euro 3x32 Action-Pin (AMP 215786-4)       |              |
| J...13   | 54.11.2011   |            | Euro 3x32 Action-Pin (AMP 215786-4)       |              |
| J...14   | 54.11.2011   |            | Euro 3x32 Action-Pin (AMP 215786-4)       |              |
| J...15   | 54.11.2011   |            | Euro 3x32 Action-Pin (AMP 215786-4)       |              |
| J...16   | 54.11.2011   |            | Euro 3x32 Action-Pin (AMP 215786-4)       |              |
| J...17   | 54.11.2011   |            | Euro 3x32 Action-Pin (AMP 215786-4)       |              |
| J...18   | 54.11.2011   |            | Euro 3x32 Action-Pin (AMP 215786-4)       |              |
| J...19   | 54.11.2011   |            | Euro 3x32 Action-Pin (AMP 215786-4)       |              |
| J...20   | 54.11.2011   |            | Euro 3x32 Action-Pin (AMP 215786-4)       |              |
| J...21   | 54.11.4201   |            | Euro 3x32 Action-Pin (AMP 1-215614-4) (*) |              |
| J...22   | 54.11.4201   |            | Euro 3x32 Action-Pin (AMP 1-215614-4) (*) |              |
| J...23   | 54.11.4201   |            | Euro 3x32 Action-Pin (AMP 1-215614-4) (*) |              |
| J...24   | 54.11.4201   |            | Euro 3x32 Action-Pin (AMP 1-215614-4) (*) |              |
| J...25   | 54.11.2012   |            | Euro 3x16 Action-Pin (AMP 166648-4)       |              |
| J...26   | 54.11.2012   |            | Euro 3x16 Action-Pin (AMP 166648-4)       |              |
| J...27   | 54.11.4201   |            | Euro 3x32 Action-Pin (AMP 1-215614-4) (*) |              |
| J...28   | 54.11.2011   |            | Euro 3x32 Action-Pin (AMP 215786-4)       |              |
| J...29   | 54.11.2011   |            | Euro 3x32 Action-Pin (AMP 215786-4)       |              |
| J...30   | 54.11.2011   |            | Euro 3x32 Action-Pin (AMP 215786-4)       |              |
| J...31   | 54.11.4201   |            | Euro 3x32 Action-Pin (AMP 1-215614-4) (*) |              |
| J...32   | 54.11.4201   |            | Euro 3x32 Action-Pin (AMP 1-215614-4) (*) |              |
| J...33   | 54.11.4201   |            | Euro 3x32 Action-Pin (AMP 1-215614-4) (*) |              |
| J...34   | 54.11.4201   |            | Euro 3x32 Action-Pin (AMP 1-215614-4) (*) |              |
| J...35   | 54.11.4201   |            | Euro 3x32 Action-Pin (AMP 1-215614-4) (*) |              |
| J...36   | 54.11.2011   |            | Euro 3x32 Action-Pin (AMP 215786-4)       |              |
| J...37   | 54.11.2011   |            | Euro 3x32 Action-Pin (AMP 215786-4)       |              |
| J...38   | 54.11.2011   |            | Euro 3x32 Action-Pin (AMP 215786-4)       |              |
| MP...19  | 54.11.4202   |            | Euro 3x32 Stiffwanne (AMP 1-928034-4)     |              |
| MP...21  | 54.11.4202   |            | Euro 3x32 Stiffwanne (AMP 1-928034-4)     |              |
| MP...27  | 54.11.4202   |            | Euro 3x32 Stiffwanne (AMP 1-928034-4)     |              |
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| MP...32  | 54.11.4202   |            | Euro 3x32 Stiffwanne (AMP 1-928034-4)     |              |
| MP...33  | 54.11.4202   |            | Euro 3x32 Stiffwanne (AMP 1-928034-4)     |              |
| MP...34  | 54.11.4202   |            | Euro 3x32 Stiffwanne (AMP 1-928034-4)     |              |
| MP...101 | 1.863.610.11 |            | EMPTY PCB                                 | ST           |
| MP...102 | 1.863.610.01 |            | Etikette: Baugruppennummer                |              |
| MP...103 | 1.010.229.27 |            | Mutterbolzen M2.5*11.5 ** QTY 14 **       |              |
| MP...104 | 1.010.223.27 |            | Mutterbolzen M2.5*21.5 ** QTY 9 **        |              |
| MP...105 | 21.53.0280   |            | IS-Schraube M2.5*8 ** QTY 2 **            |              |
| MP...106 | 21.53.0281   |            | IS-Schraube M2.5*10 ** QTY 7 **           |              |
| MP...107 | 21.53.0284   |            | IS-Schraube M2.5*16 ** QTY 14 **          |              |
| MP...108 | 21.01.1027   |            | Si-Scheibe M2.5 ** QTY 2 **               |              |
| MP...109 | 24.16.1025   |            | Si-Scheibe M2.5 ** QTY 2 **               |              |
| P....1   | 54.14.4016   | 16-P       | RIBBON-CABLE-PLUG (AMP 1-215244-6)        |              |
| P....2   | 54.14.4016   | 16-P       | RIBBON-CABLE-PLUG (AMP 1-215244-6)        |              |
| P....3   | 54.14.4016   | 16-P       | RIBBON-CABLE-PLUG (AMP 1-215244-6)        |              |
| P....4   | 54.14.4016   | 16-P       | RIBBON-CABLE-PLUG (AMP 1-215244-6)        |              |
| P....5   | 54.14.4016   | 16-P       | RIBBON-CABLE-PLUG (AMP 1-215244-6)        |              |
| P....6   | 54.14.4016   | 16-P       | RIBBON-CABLE-PLUG (AMP 1-215244-6)        |              |
| P....7   | 54.14.4010   | 10-P       | RIBBON-CABLE-PLUG (AMP 1-215244-0)        |              |
| P....8   | 54.14.4010   | 10-P       | RIBBON-CABLE-PLUG (AMP 1-215244-0)        |              |
| R....1   | 57.11.3470   | 47E        | 1%, 0.6W, MF                              |              |
| R....2   | 57.11.3470   | 47E        | 1%, 0.6W, MF                              |              |
| R....3   | 57.11.3470   | 47E        | 1%, 0.6W, MF                              |              |
| R....4   | 57.11.3470   | 47E        | 1%, 0.6W, MF                              |              |
| R....5   | 57.11.3470   | 47E        | 1%, 0.6W, MF                              |              |
| R....6   | 57.11.3102   | 1k         | 1%, 0.6W, MF                              |              |
| R....7   | 57.11.3102   | 1k         | 1%, 0.6W, MF                              |              |
| R....8   | 57.11.3102   | 1k         | 1%, 0.6W, MF                              |              |
| R....10  | 57.11.3121   | 120E       | 1%, 0.6W, MF                              |              |
| R....11  | 57.11.3121   | 120E       | 1%, 0.6W, MF                              |              |
| R....12  | 57.11.3121   | 120E       | 1%, 0.6W, MF                              |              |
| R....13  | 57.11.3121   | 120E       | 1%, 0.6W, MF                              |              |
| XW...1   | 53.05.0147   |            | POWERTERMINAL (AMP 55556-4)               |              |
| XW...2   | 53.05.0147   |            | POWERTERMINAL (AMP 55556-4)               |              |
| XW...3   | 53.05.0147   |            | POWERTERMINAL (AMP 55556-4)               |              |
| XW...4   | 53.05.0147   |            | POWERTERMINAL (AMP 55556-4)               |              |
| XW...5   | 53.05.0147   |            | POWERTERMINAL (AMP 55556-4)               |              |
| XW...6   | 53.05.0147   |            | POWERTERMINAL (AMP 55556-4)               |              |
| XW...7   | 53.05.0147   |            | POWERTERMINAL (AMP 55556-4)               |              |
| XW...8   | 53.05.0147   |            | POWERTERMINAL (AMP 55556-4)               |              |
| XW...9   | 53.05.0147   |            | POWERTERMINAL (AMP 55556-4)               |              |
| XW...10  | 53.05.0147   |            | POWERTERMINAL (AMP 55556-4)               |              |
| XW...11  | 53.05.0147   |            | POWERTERMINAL (AMP 55556-4)               |              |
| XW...12  | 53.05.0147   |            | POWERTERMINAL (AMP 55556-4)               |              |
| XW...13  | 53.05.0147   |            | POWERTERMINAL (AMP 55556-4)               |              |

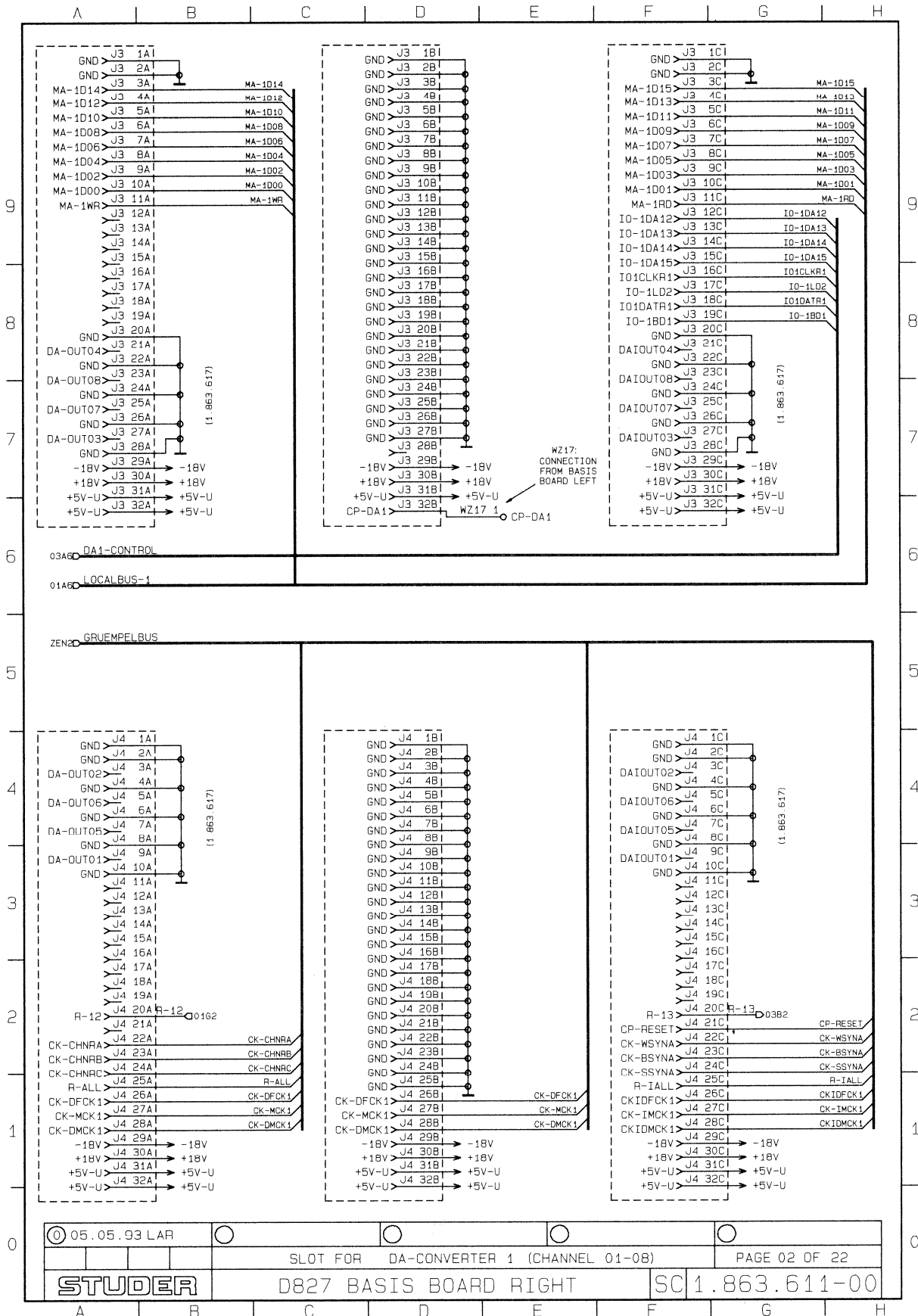
mit langen, vergoldeten Stiften

1.863.610.00 D827 BASIS BOARD LEFT LAR93/08/1800 REMARKS: (\*) = Euro-Stecker 3x32-pol fuer HucKepakck-Anwendung

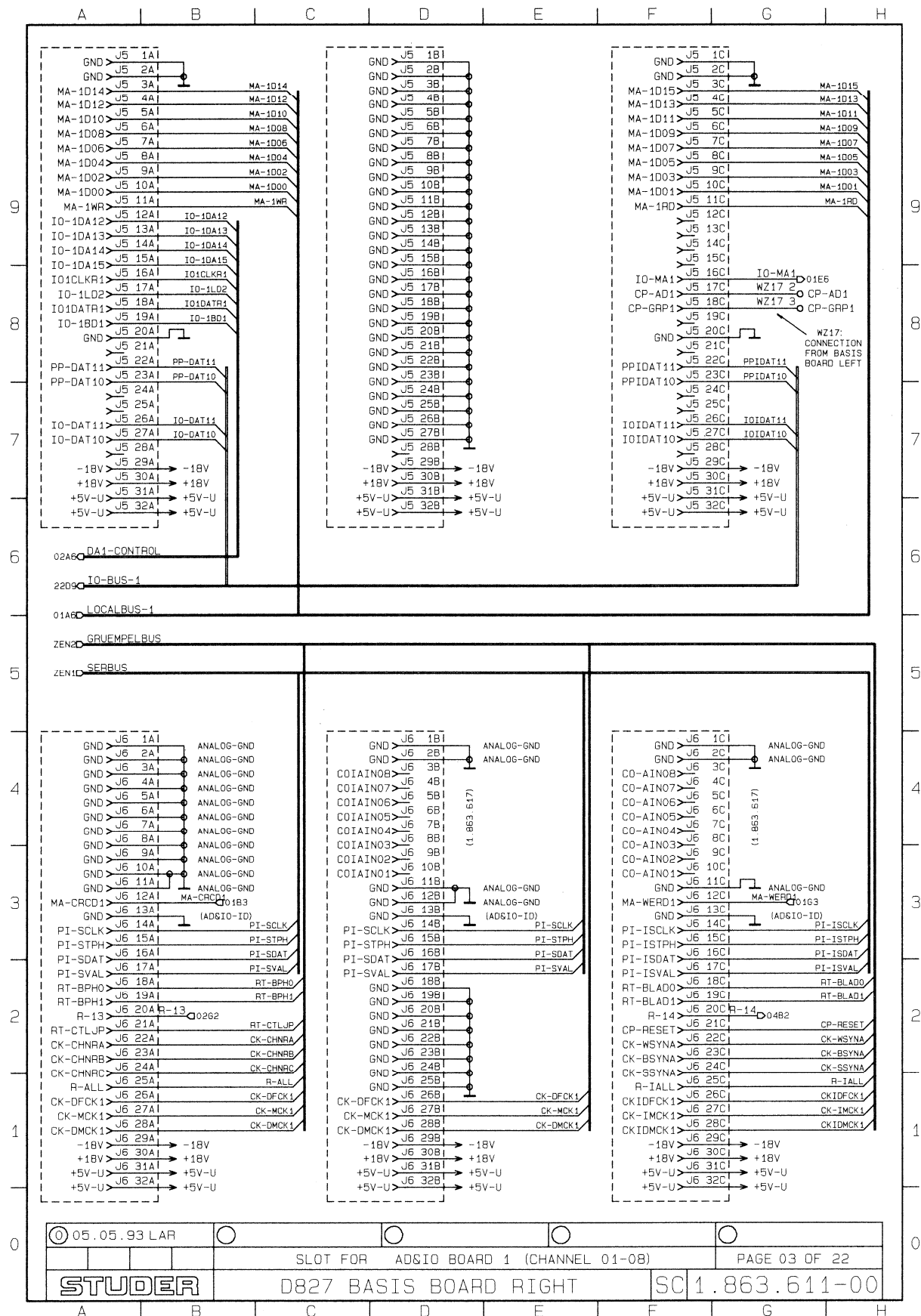
**BASIS BOARD RIGHT 1.863.611.00**  
**-Slot For Mapro 1 (Channel 01-08)**



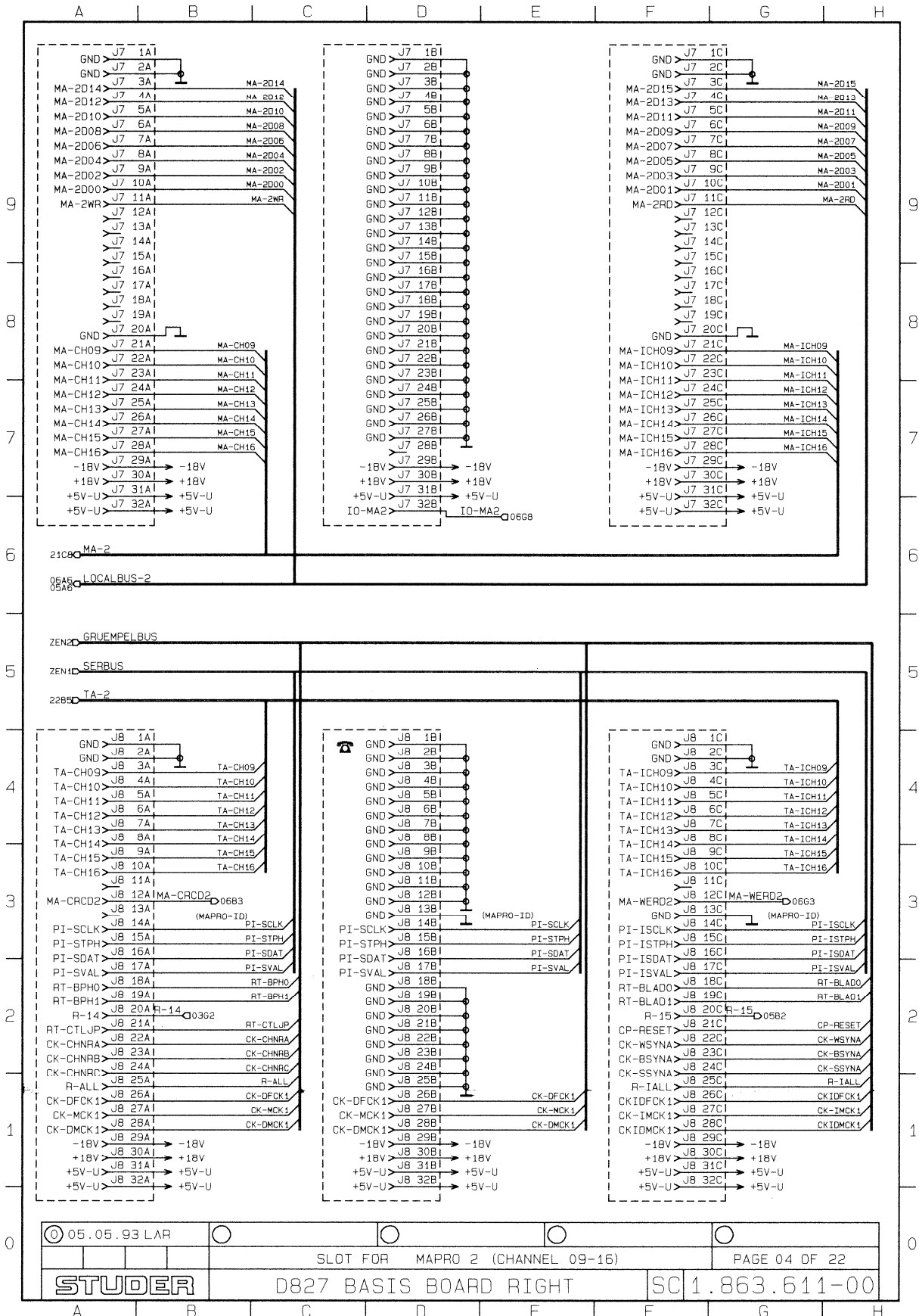
**BASIS BOARD RIGHT 1.863.611.00**  
 -Slot For D / A-Converter 1 (Channel 01-08)



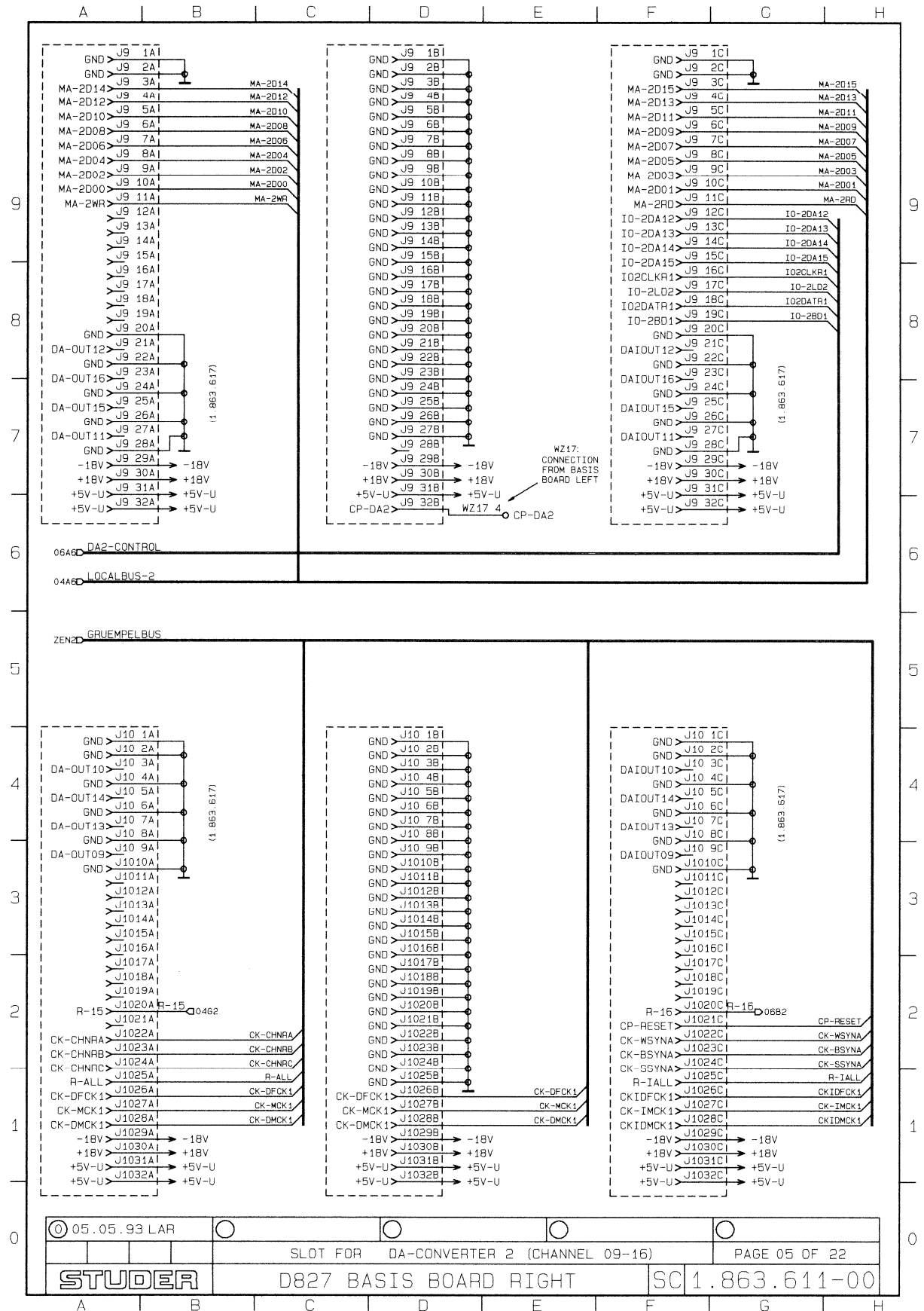
**BASIS BOARD RIGHT 1.863.611.00**  
 -Slot For A / D & I / O Board 1 (Channel 01-08)



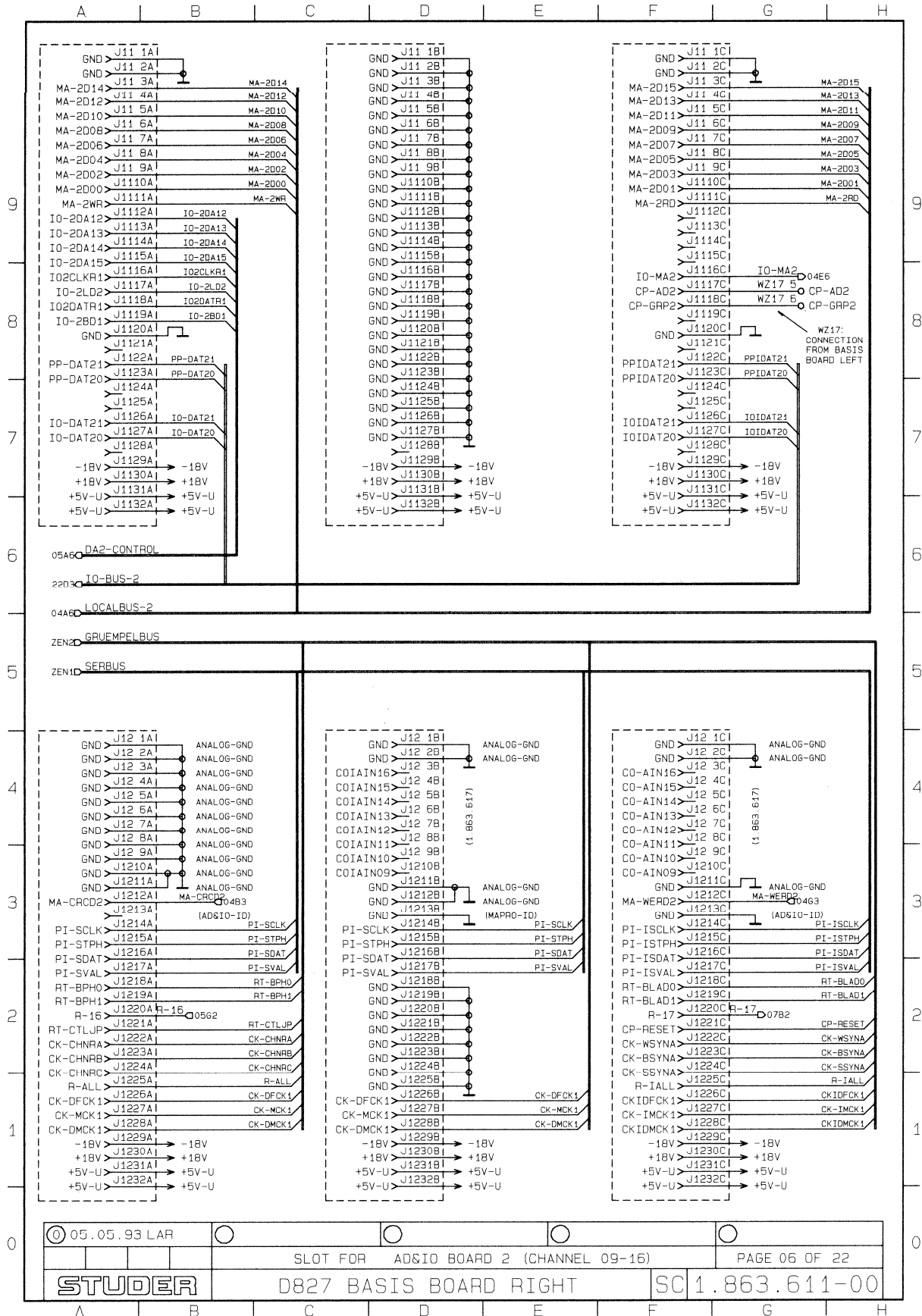
**BASIS BOARD RIGHT 1.863.611.00**  
 -Slot For Mapro 2 (Channel 09-16)



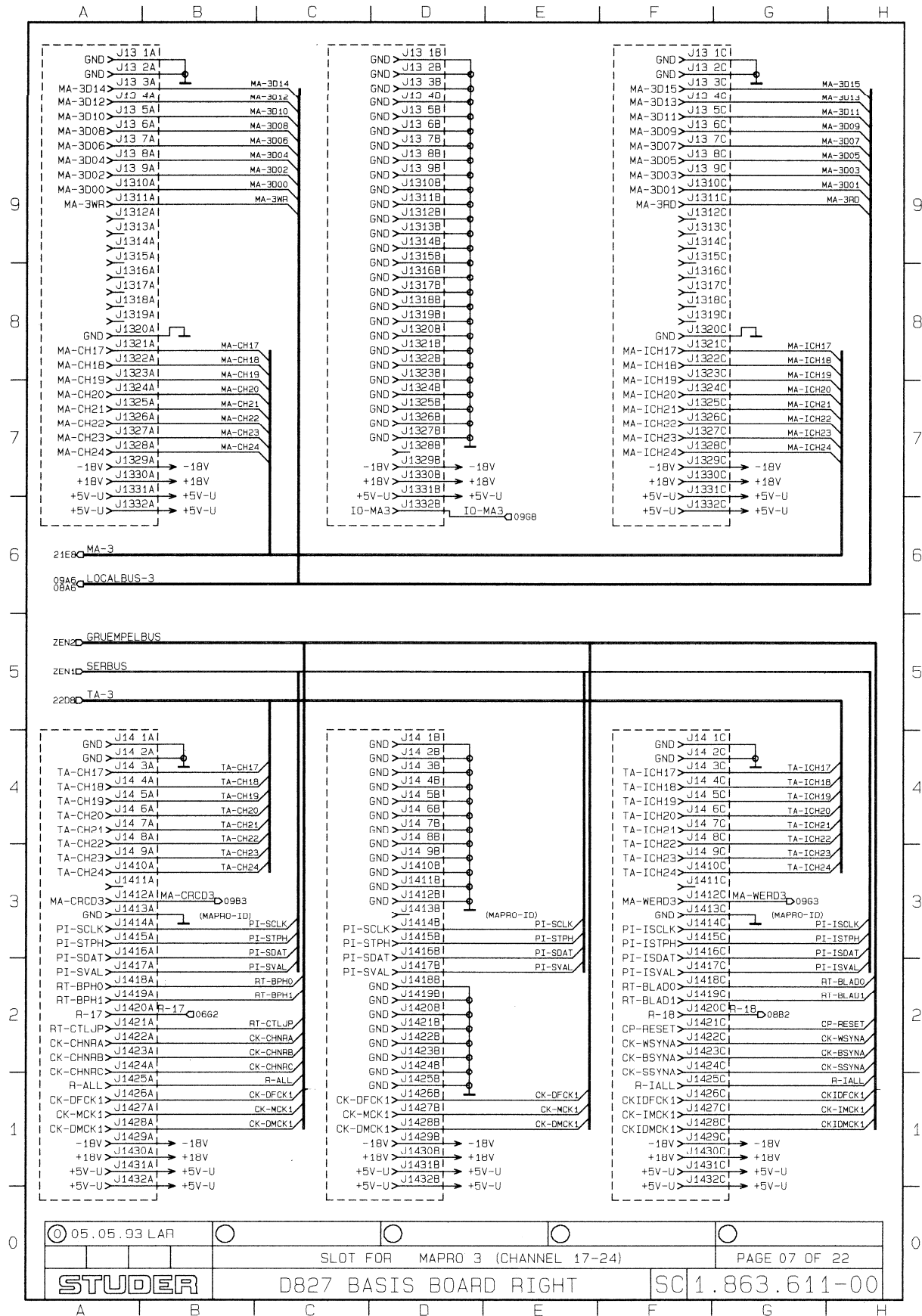
**BASIS BOARD RIGHT 1.863.611.00**  
 -Slot For D / A Converter 2 (Channel 09-16)



**BASIS BOARD RIGHT 1.863.611.00**  
 -Slot For A / D & I / O Board 2 (Channel 09-16)

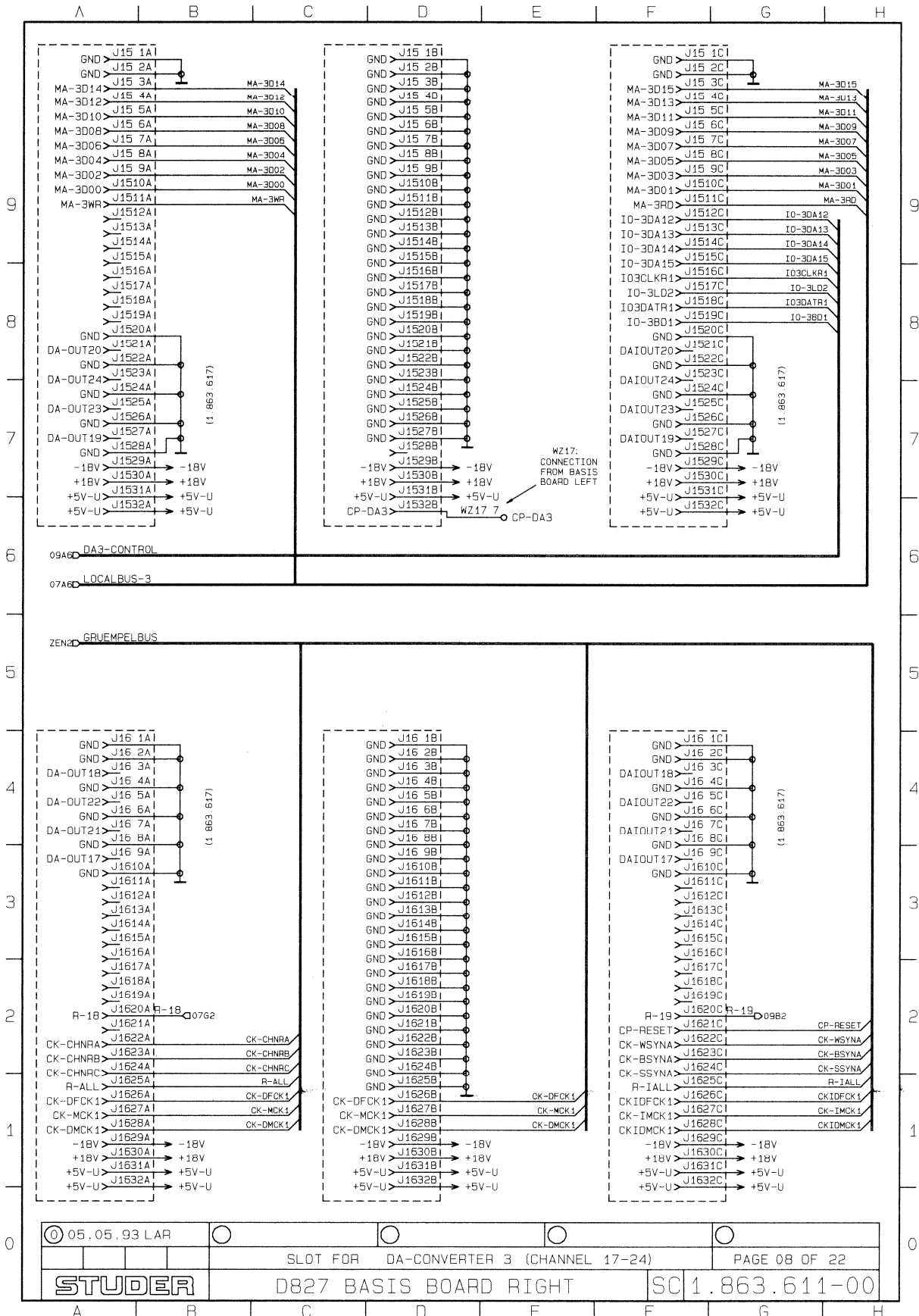


**BASIS BOARD RIGHT 1.863.611.00**  
**-Slot For Mapro 3 (Channel 17-24)**

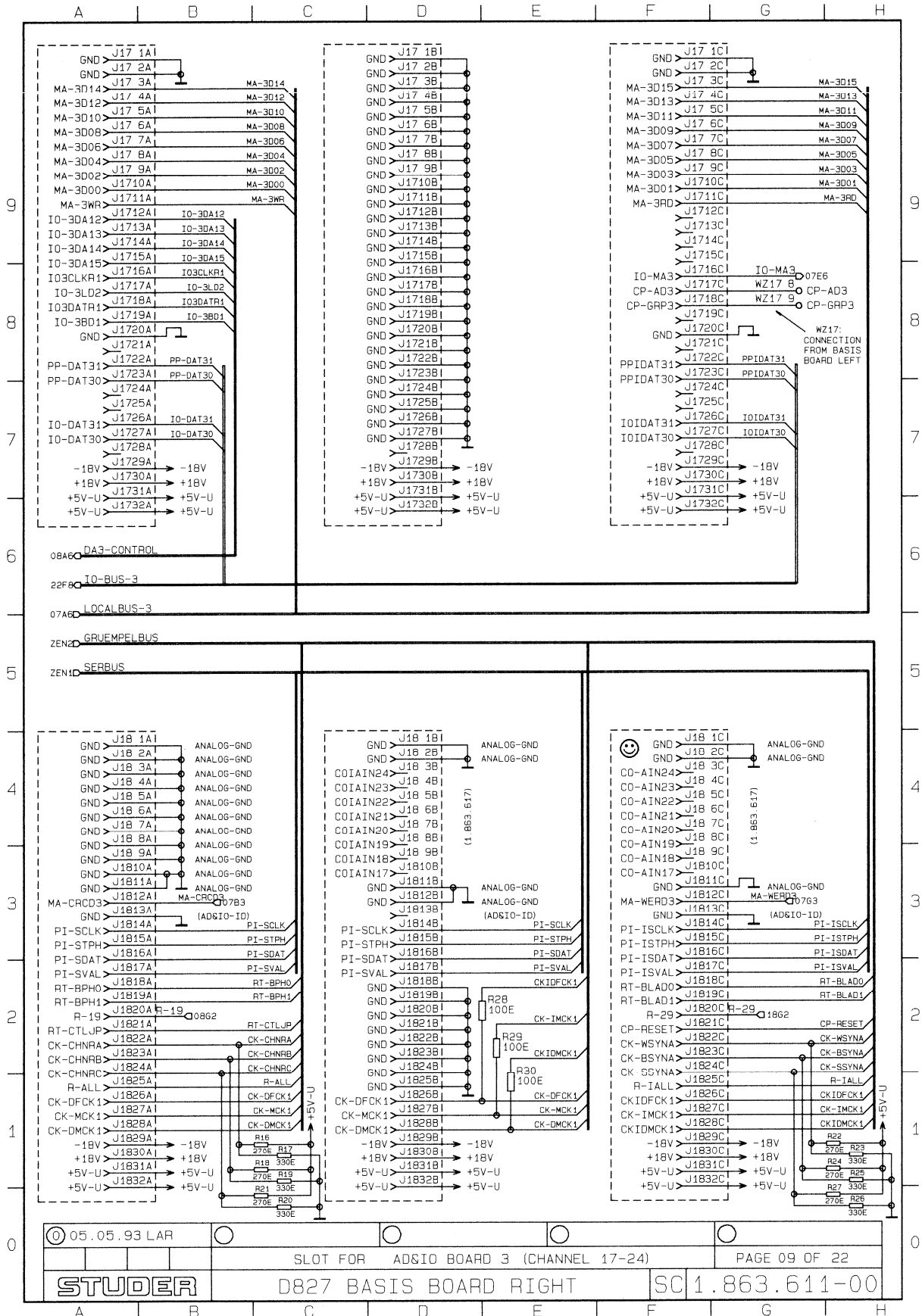




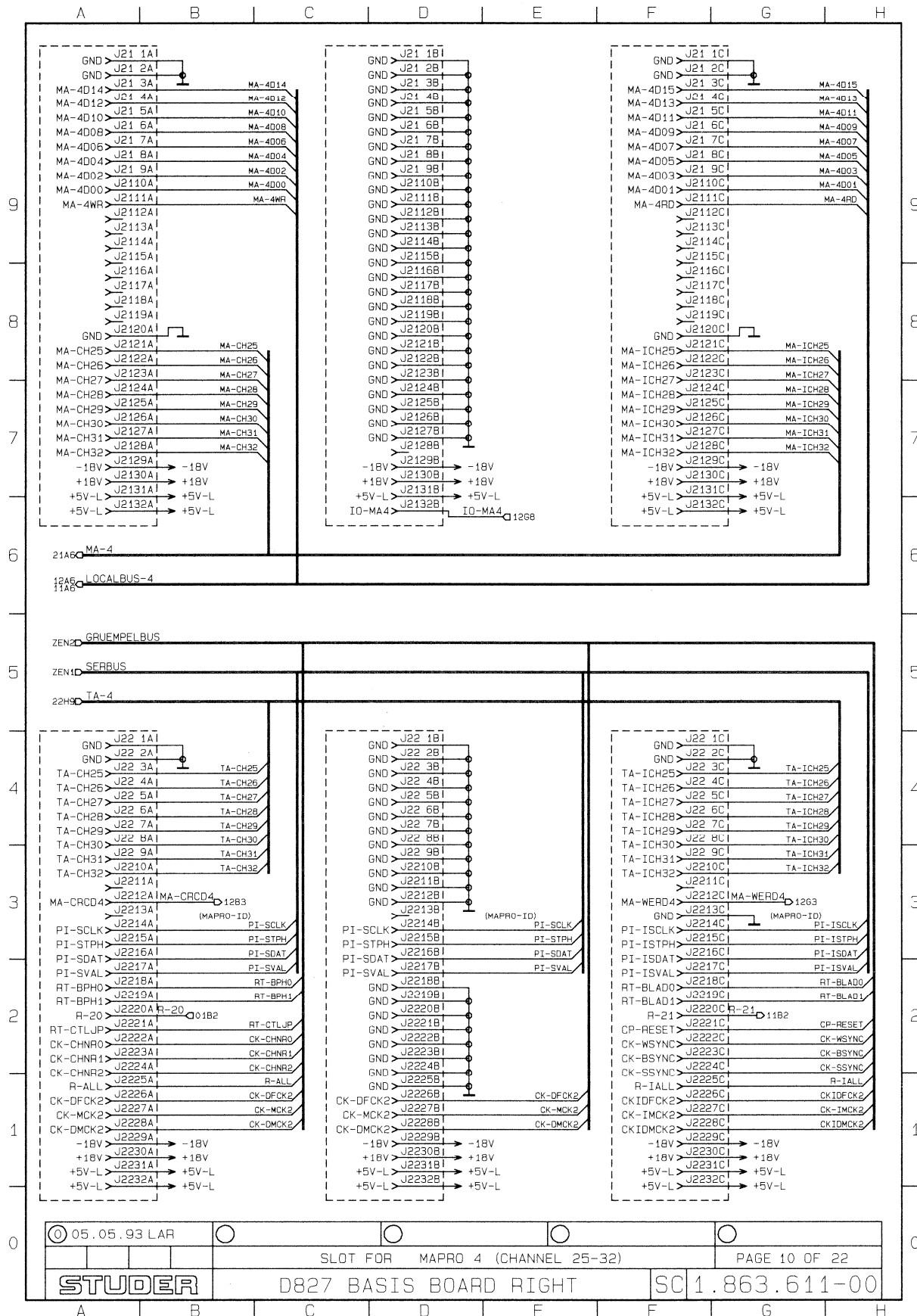
**BASIS BOARD RIGHT 1.863.611.00**  
 -Slot For D / A Converter 3 (Channel 17-24)



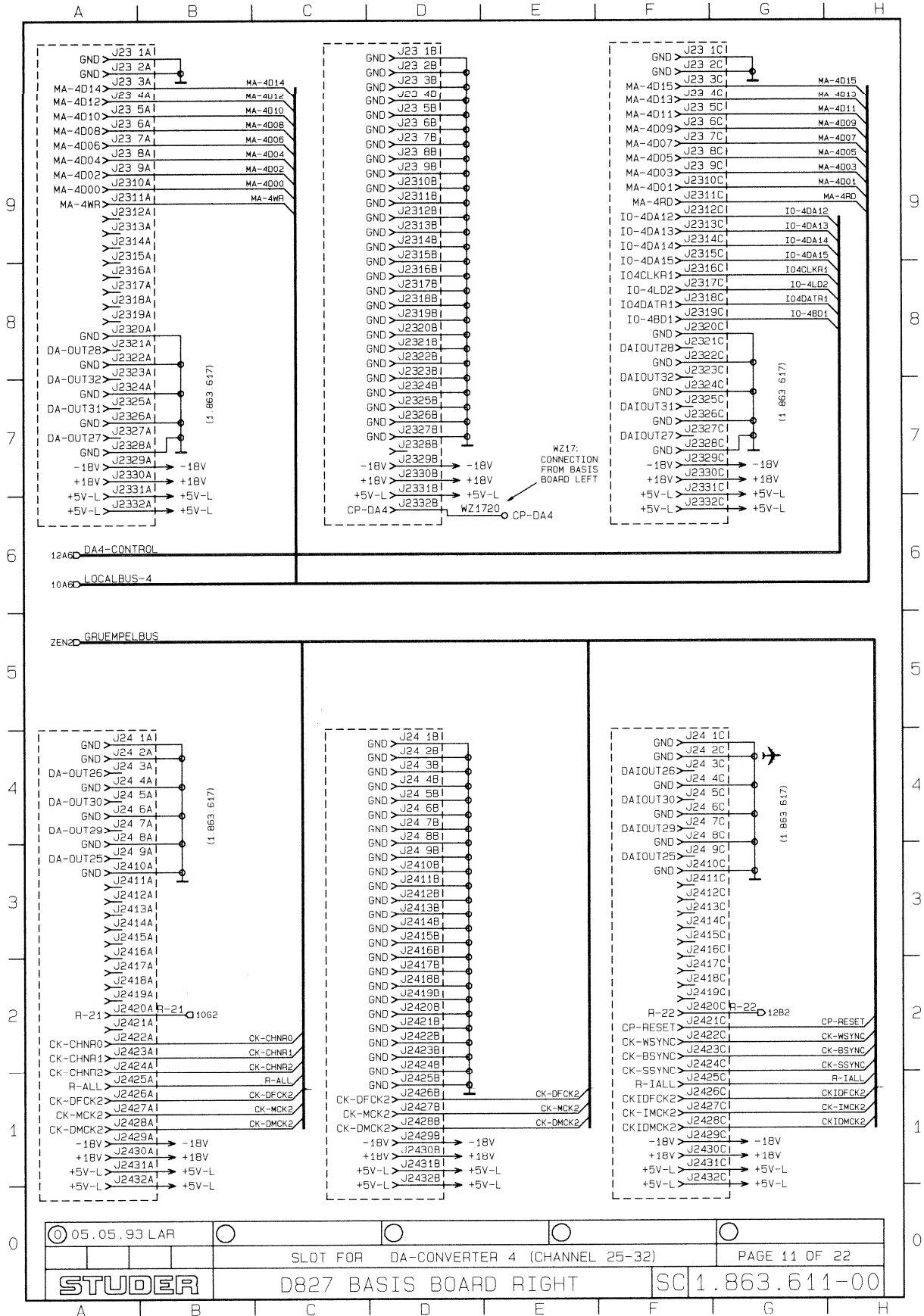
**BASIS BOARD RIGHT 1.863.611.00**  
-Slot For A / D & I / O Board 3 (Channel 17-24)



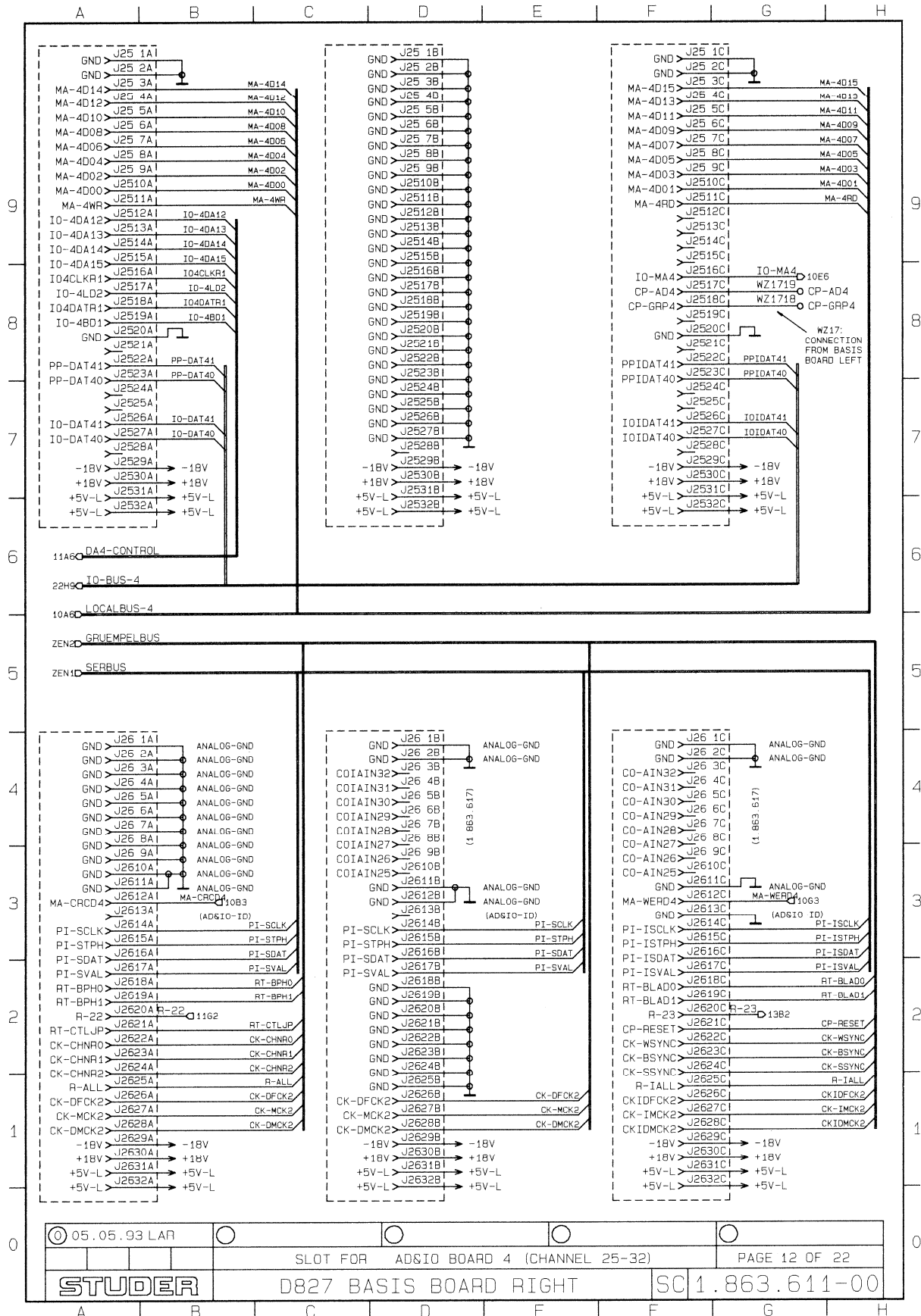
**BASIS BOARD RIGHT 1.863.611.00**  
 -Slot For Mapro 4 (Channel 25-32)



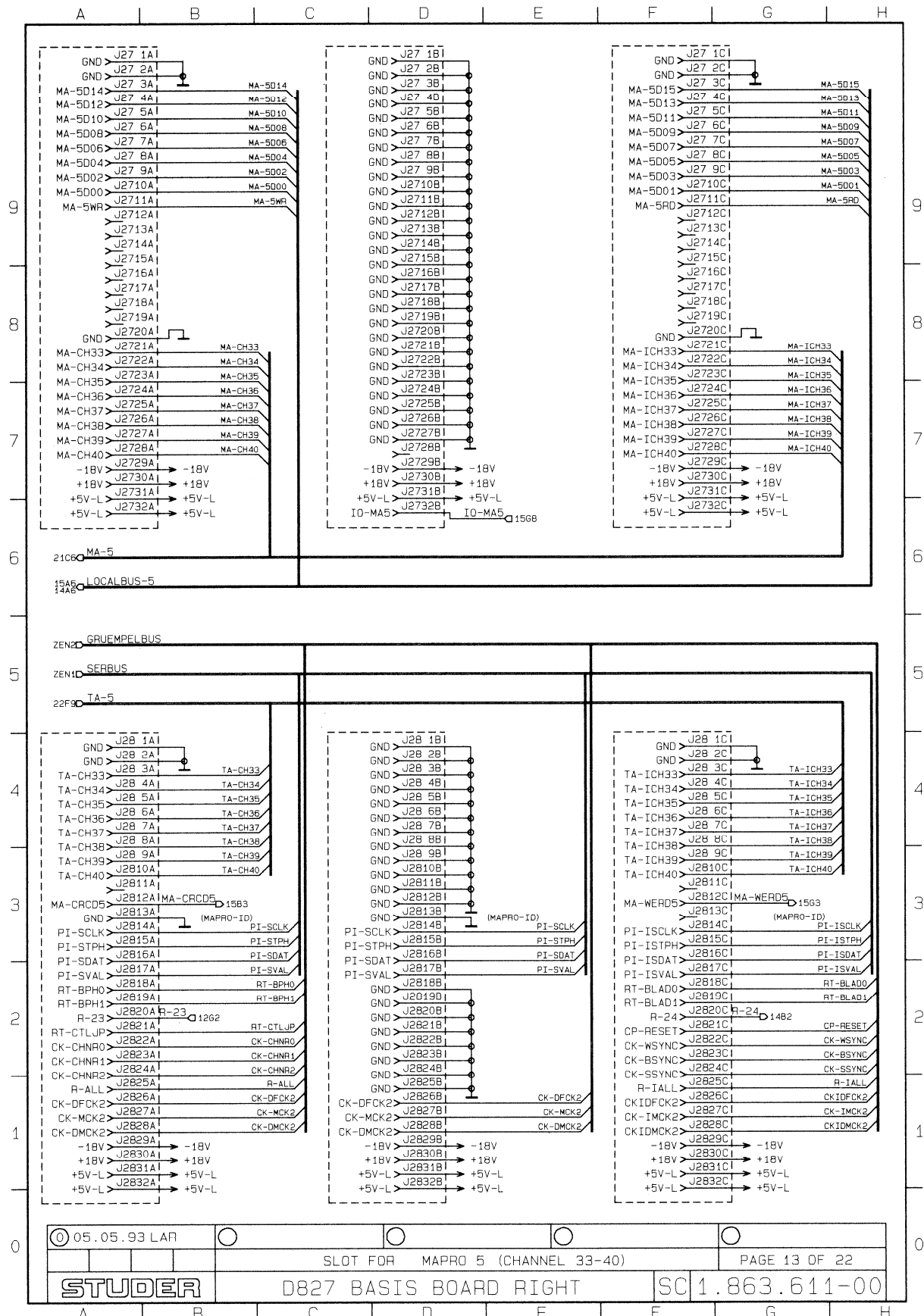
BASIS BOARD RIGHT 1.863.611.00  
-Slot For D / A Converter 4 (Channel 25-32)



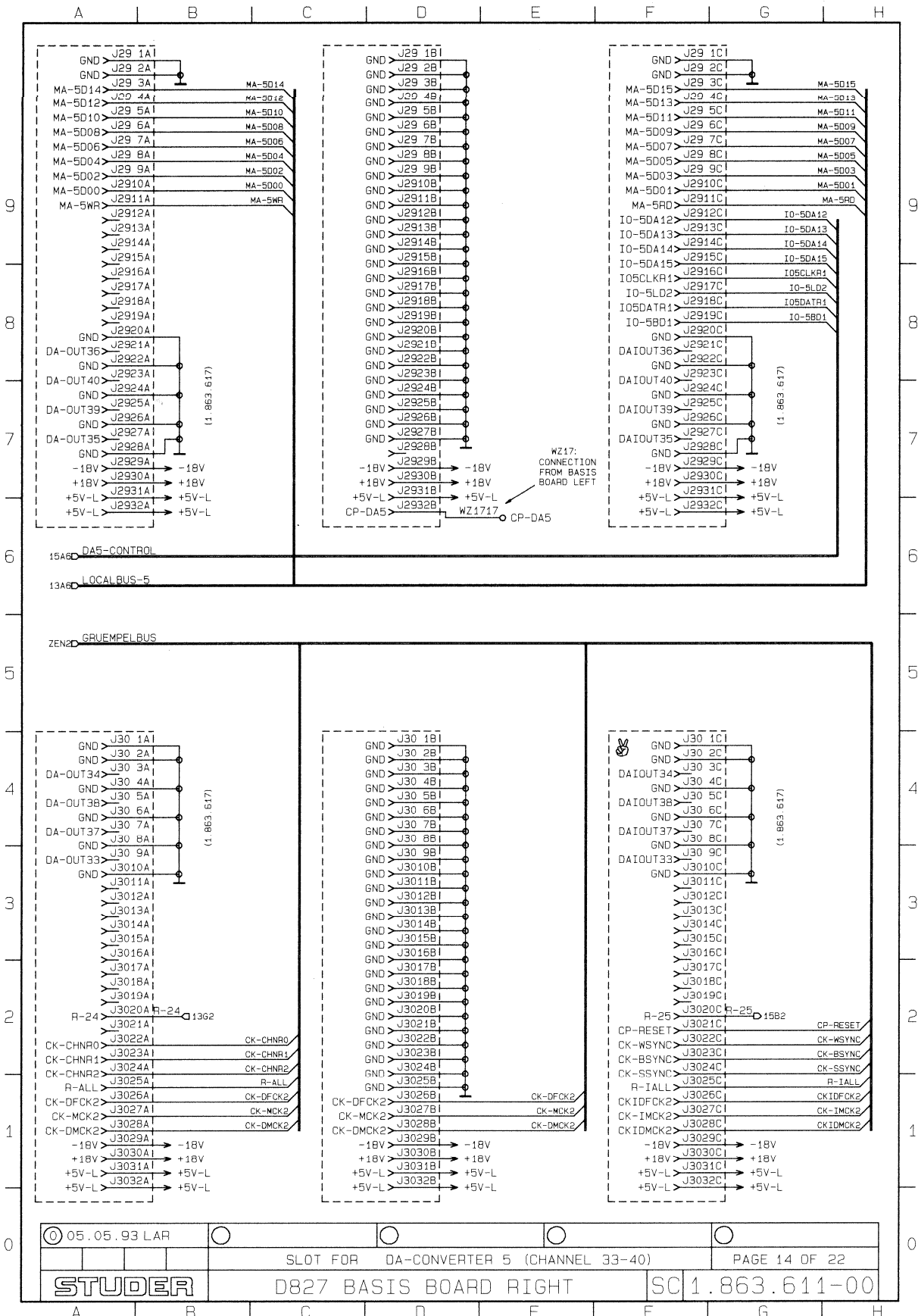
**BASIS BOARD RIGHT 1.863.611.00**  
 -Slot For A / D & I / O Board 4 (Channel 25-32)



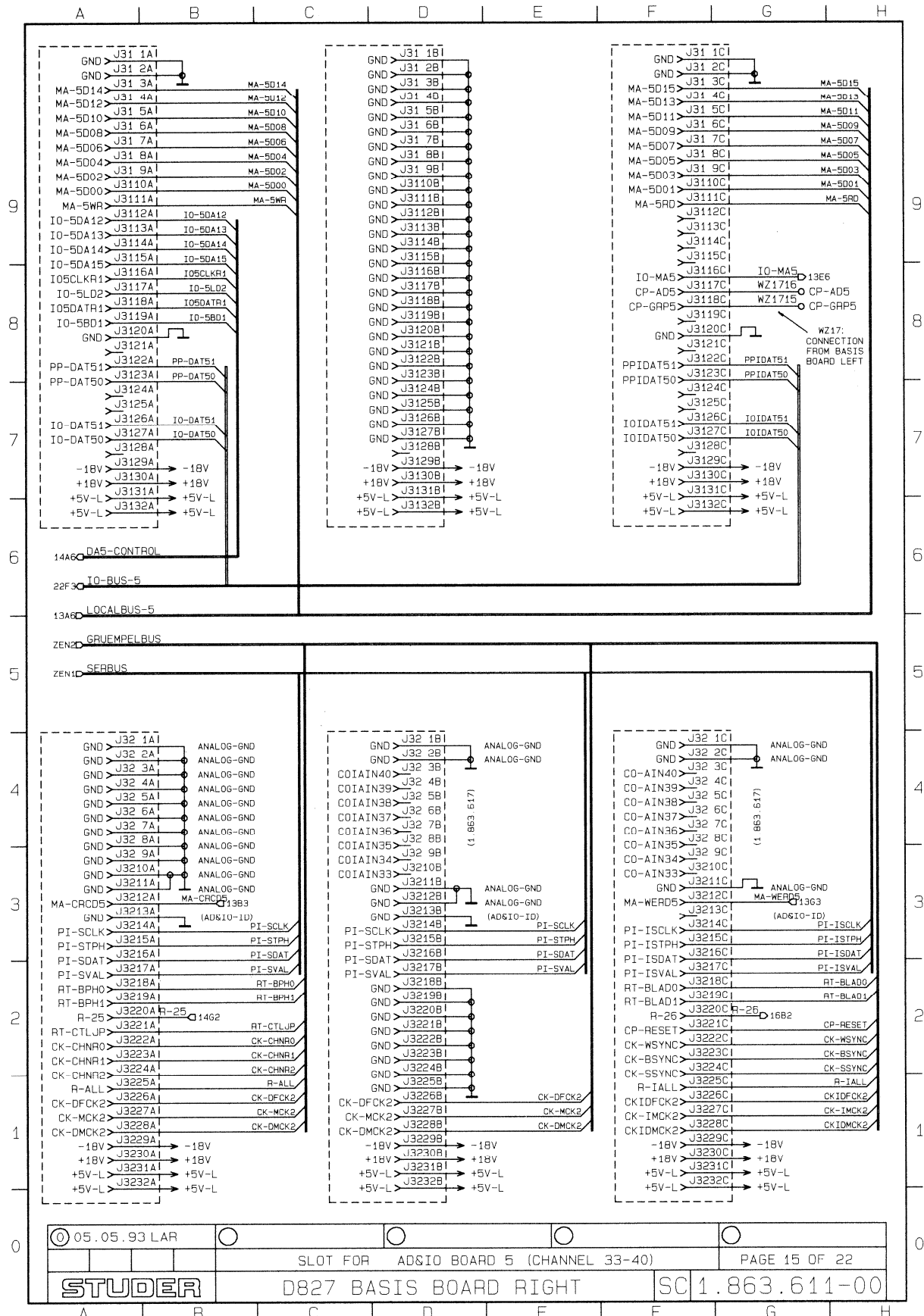
**BASIS BOARD RIGHT 1.863.611.00**  
**-Slot For Mapro 5 (Channel 33-40)**



**BASIS BOARD RIGHT 1.863.611.00**  
 -Slot For D / A Converter 5 (Channel 33-40)

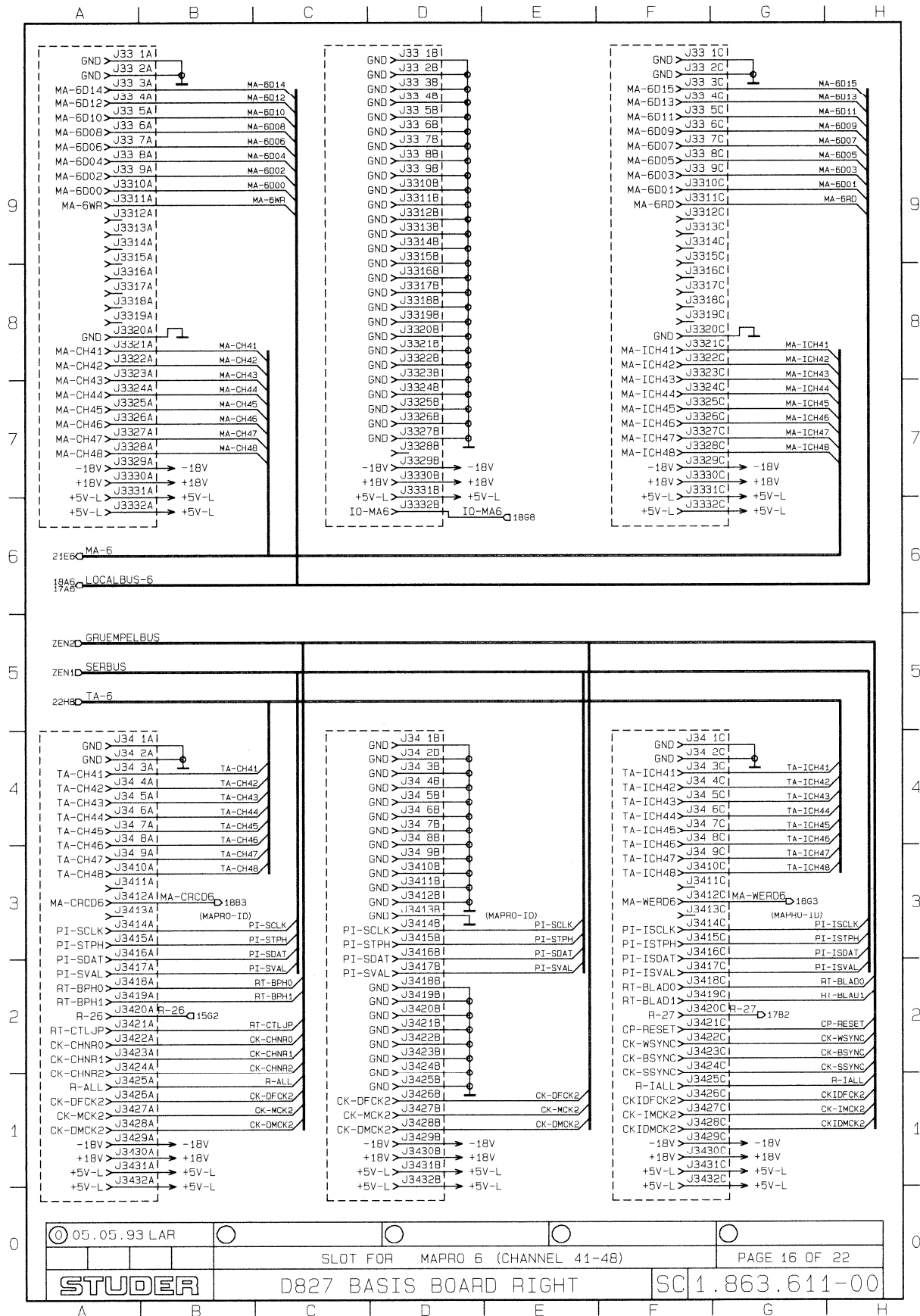


**BASIS BOARD RIGHT 1.863.611.00**  
 -Slot For A / D & I / O Board 5 (Channel 33-40)

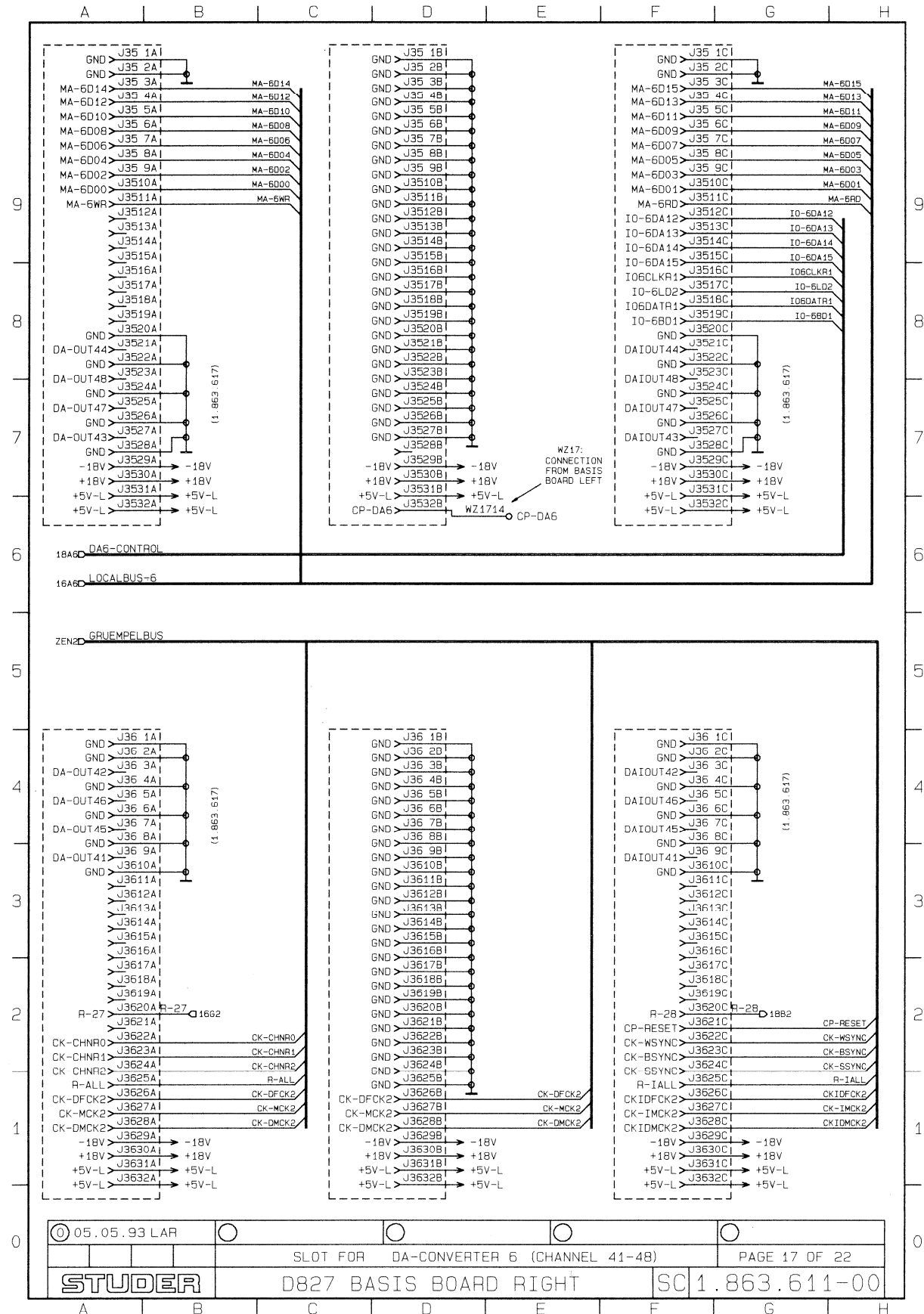




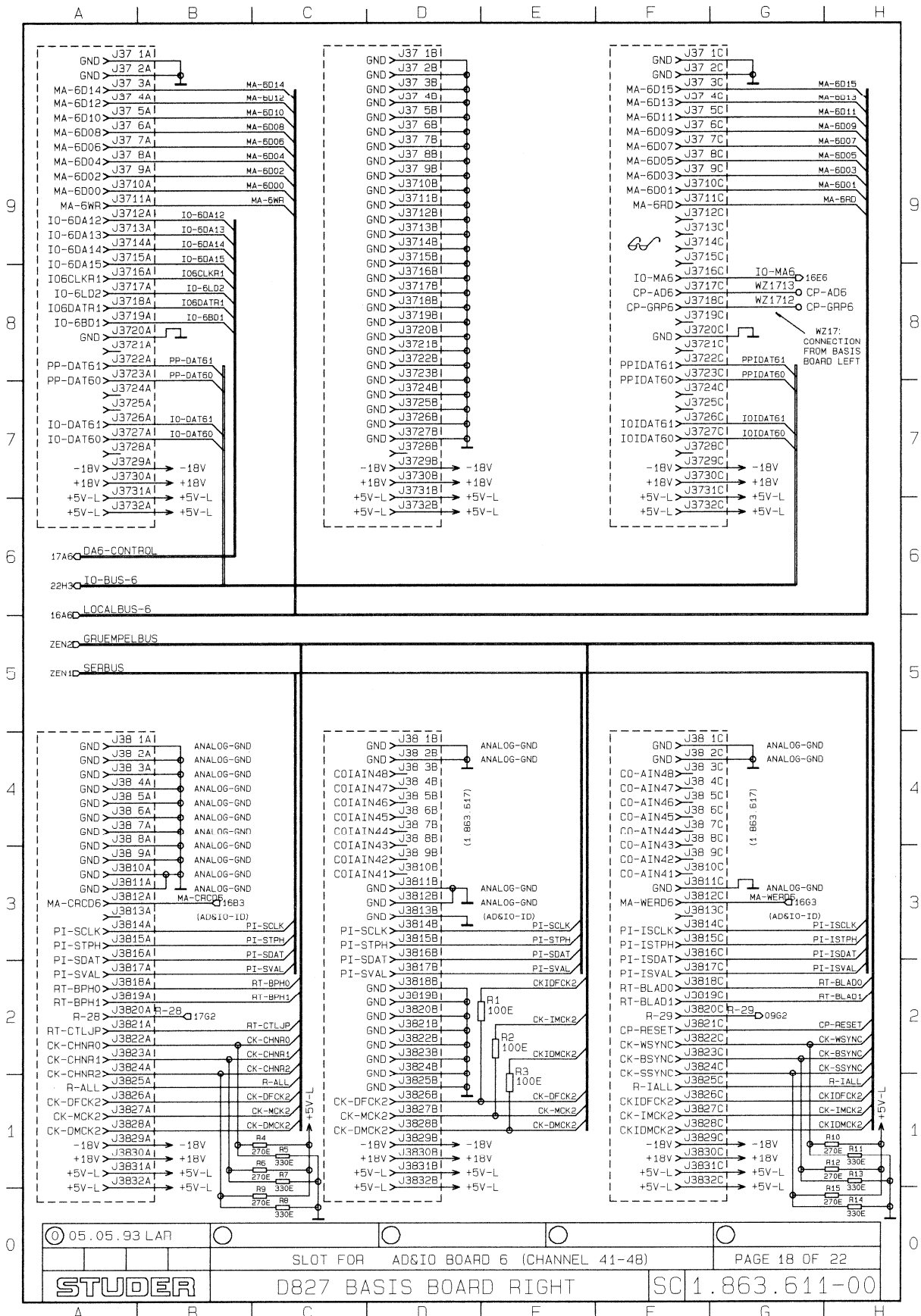
**BASIS BOARD RIGHT 1.863.611.00**  
 -Slot For Mapro 6 (Channel 41-48)



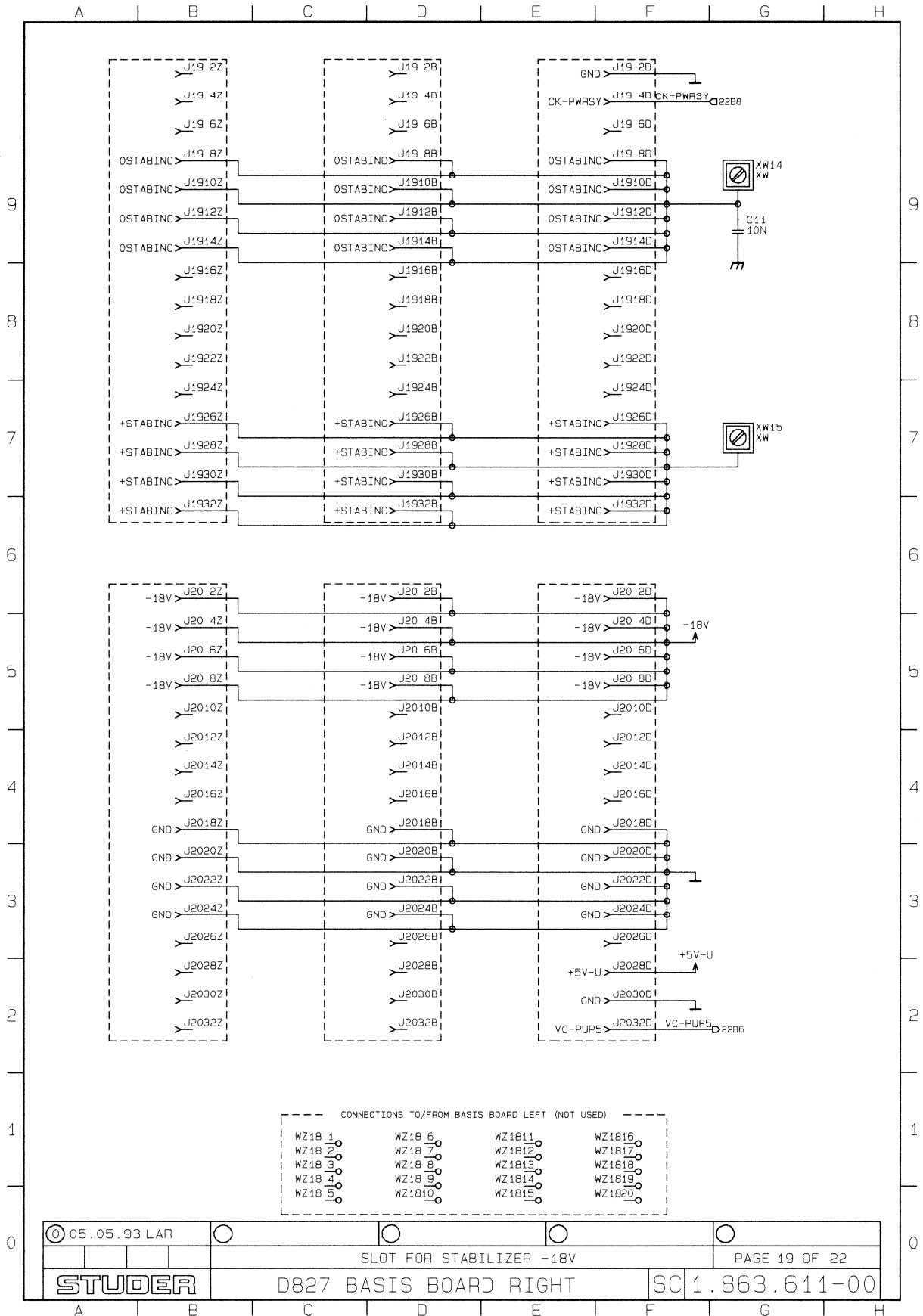
**BASIS BOARD RIGHT 1.863.611.00**  
 -Slot For D / A Converter 6 (Channel 41-48)



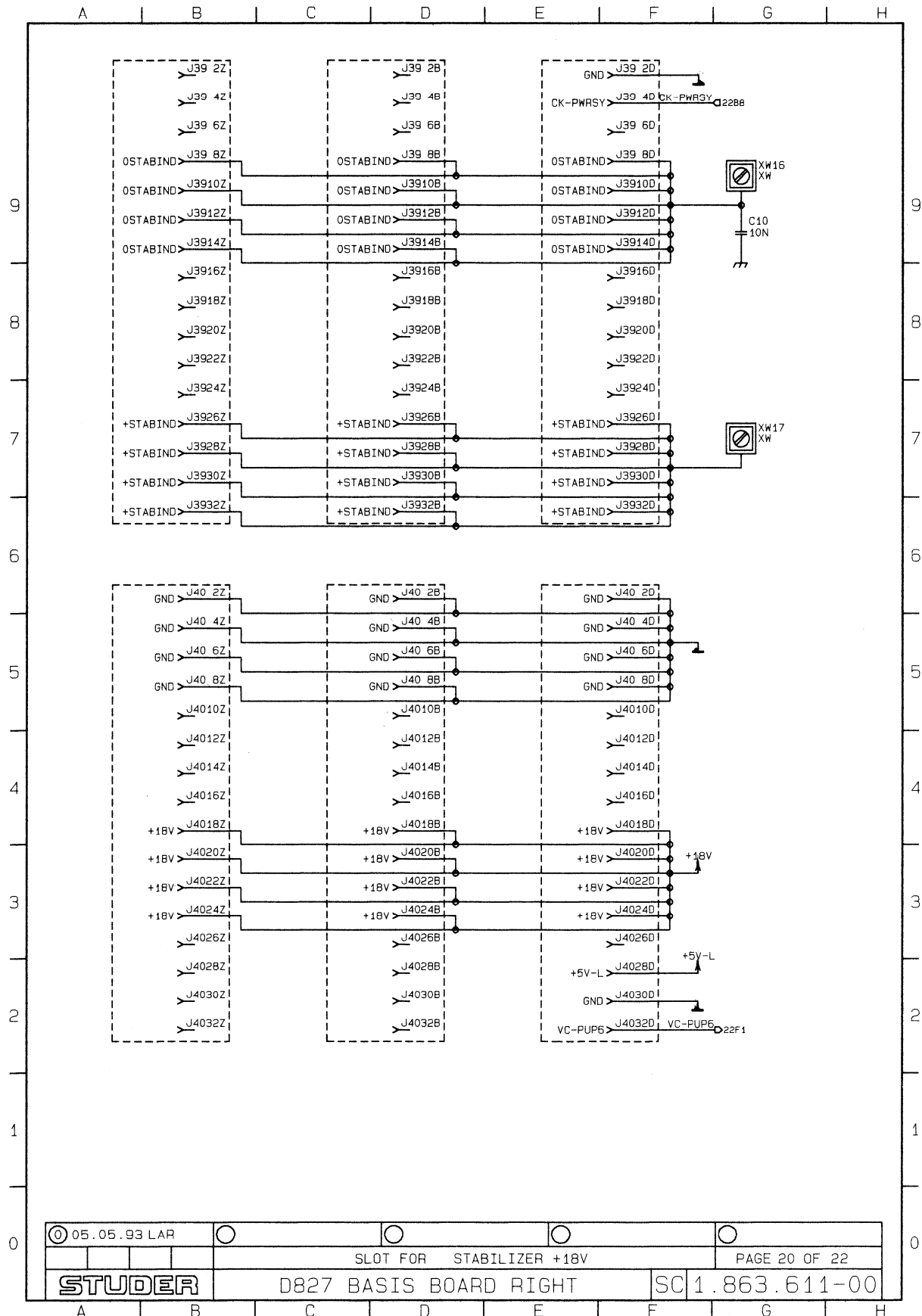
**BASIS BOARD RIGHT 1.863.611.00**  
 -Slot For A / D & I / O Board 6 (Channel 41-48)



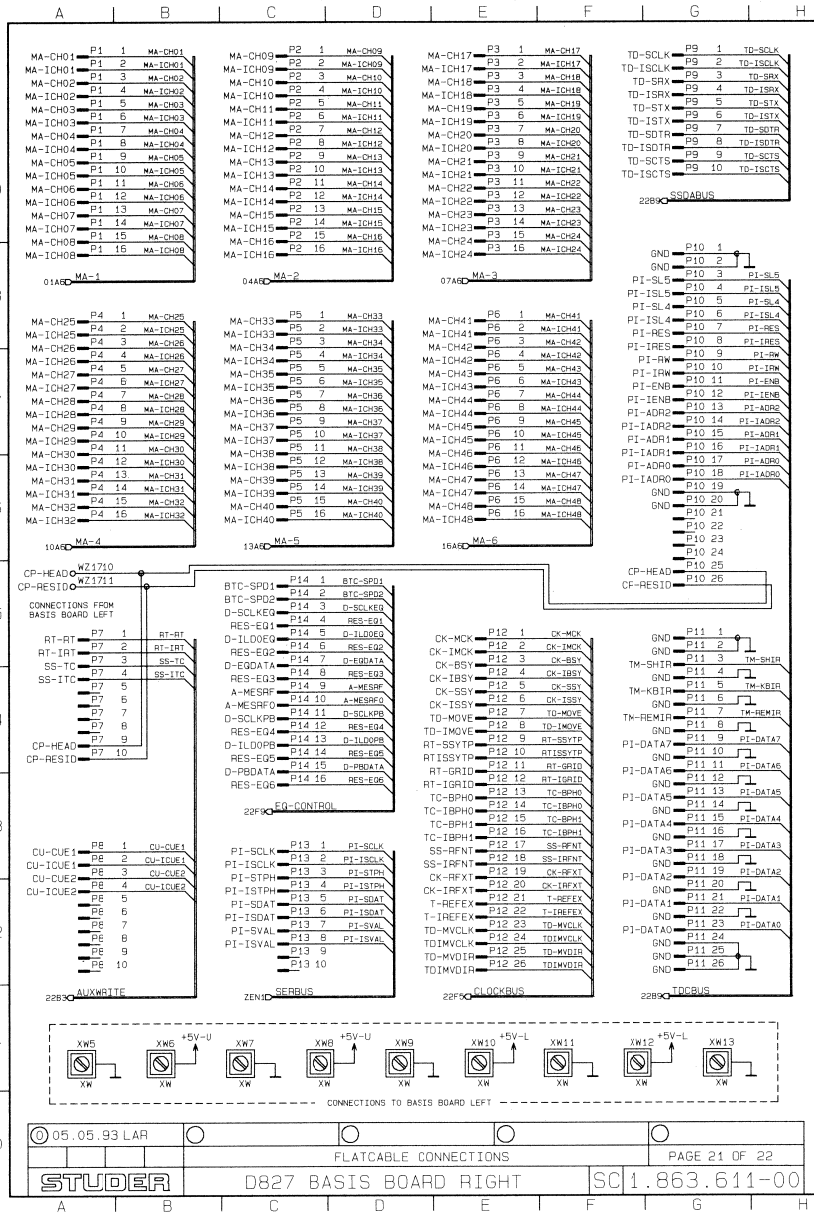
**BASIS BOARD RIGHT 1.863.611.00**  
**-Slot For Stabilizer -18V**



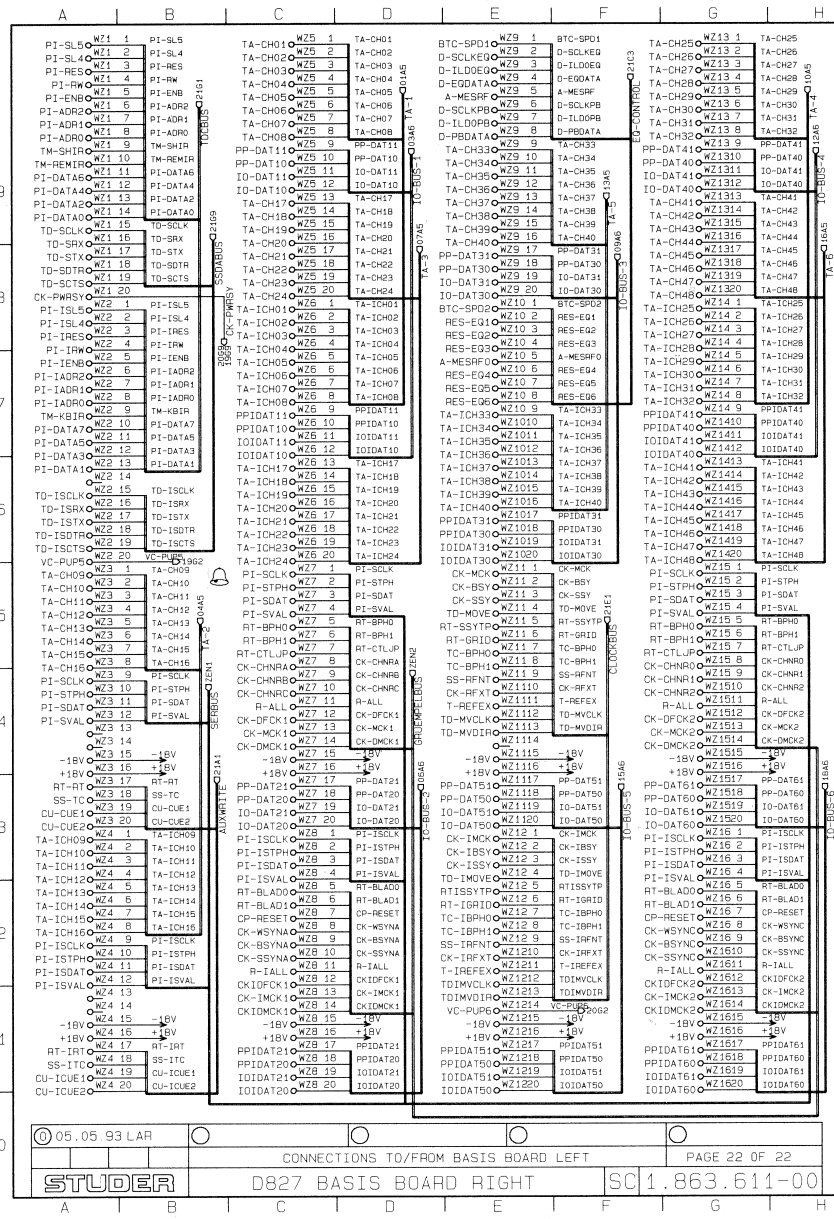
**BASIS BOARD RIGHT 1.863.611.00**  
 -Slot For Stabilizer +18V



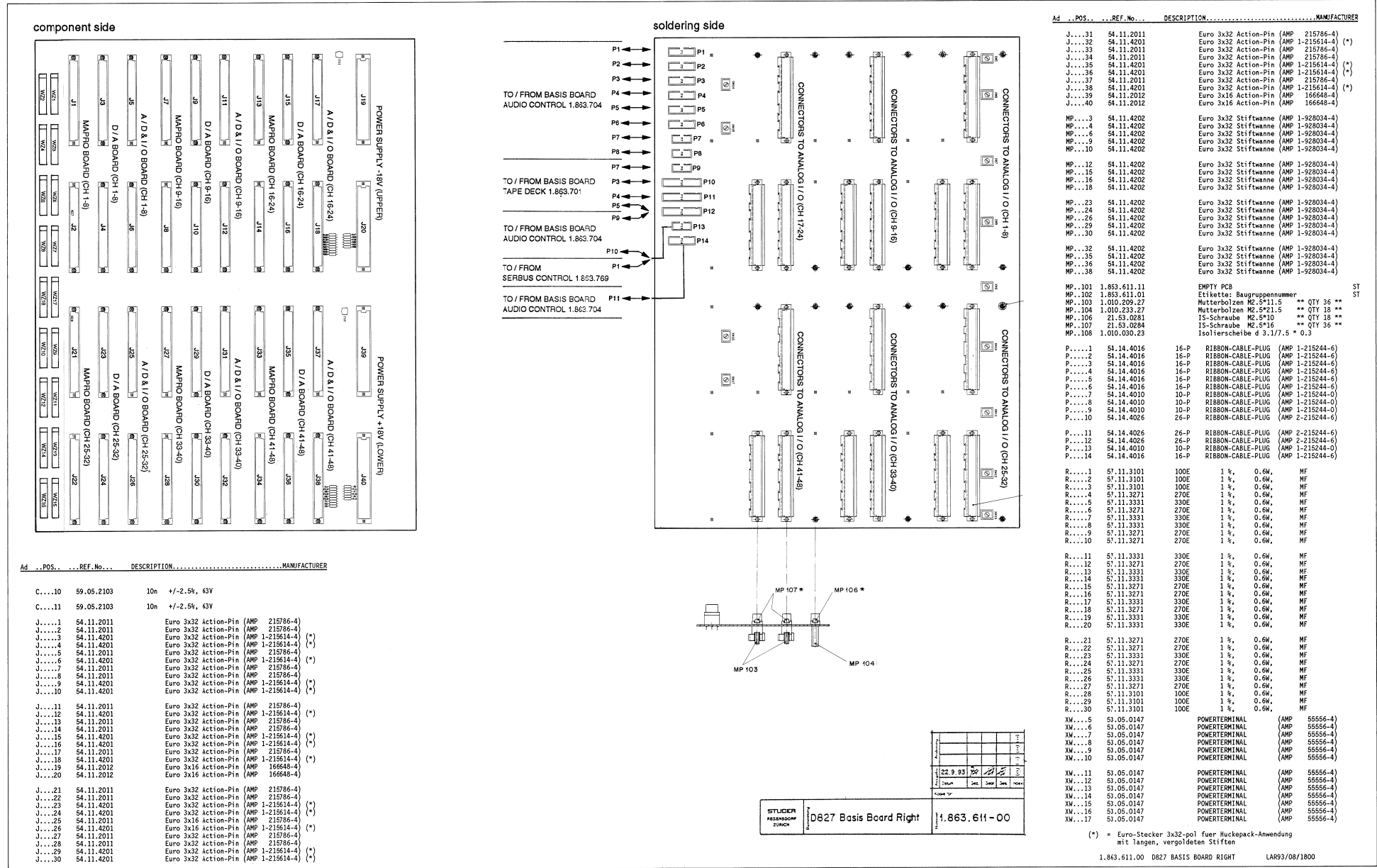
BASIS BOARD RIGHT 1.863.611.00 -Flatcable Connections



BASIS BOARD RIGHT 1.863.611.00 -Connections To / From Basis Board Left

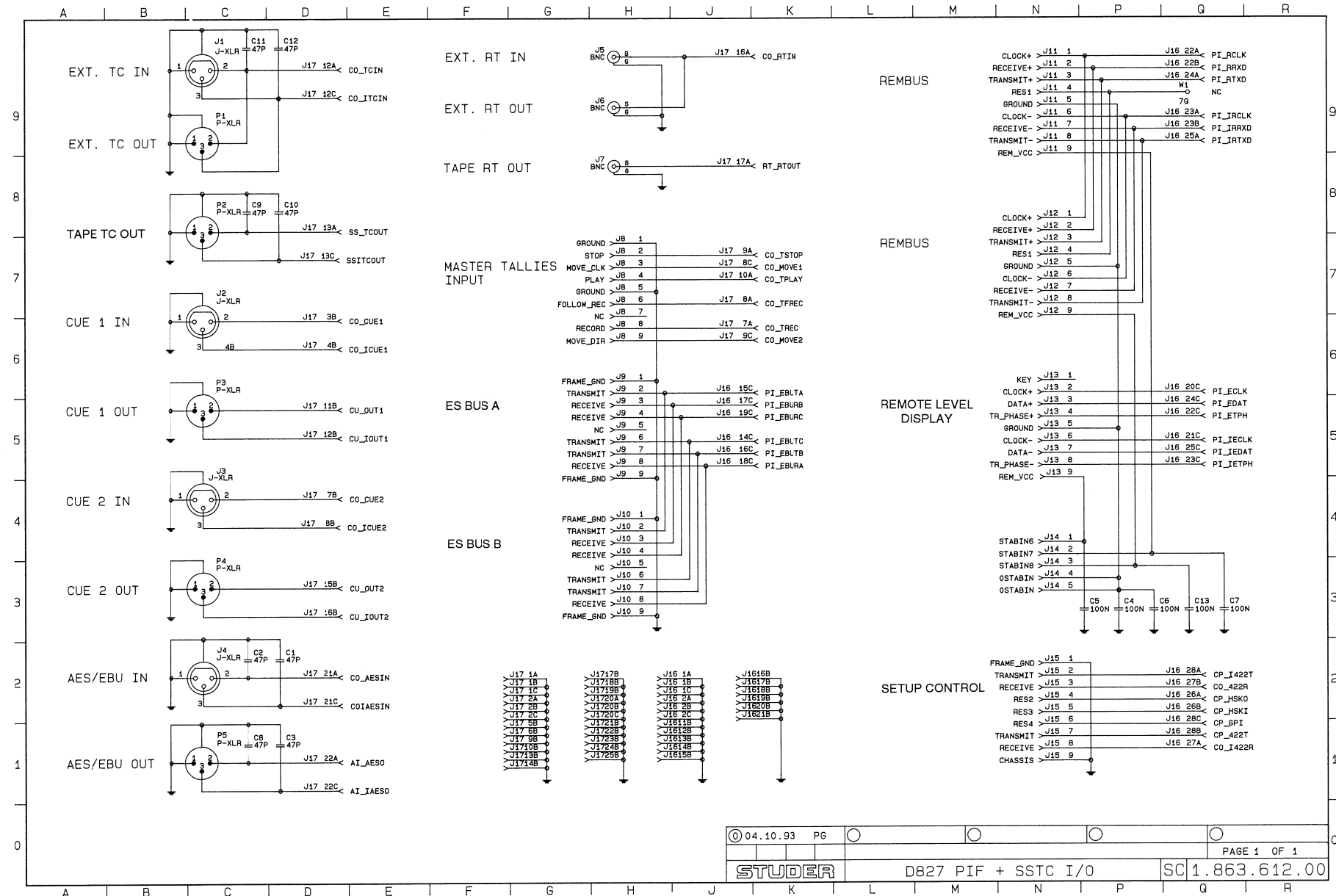


BASIS BOARD RIGHT 1.863.611.00



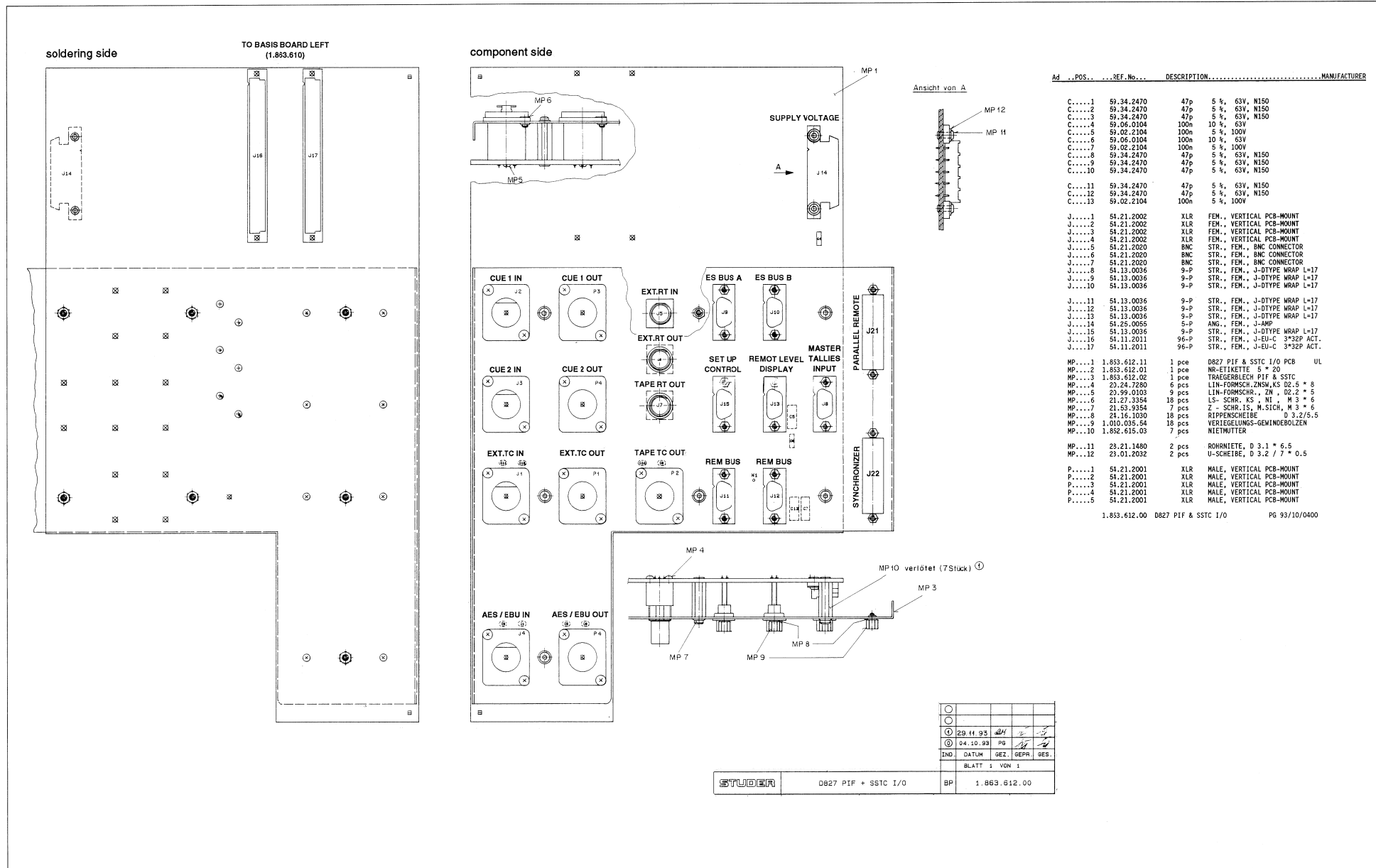
STUDER D827 MCH

PIF + SSTC I / O 1.863.612.00

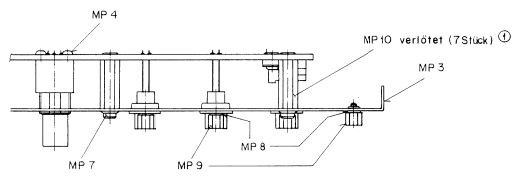




PIF + SSTC I / O 1.863.612.00



| Ad                               | POS.         | REF.No. | DESCRIPTION                   | MANUFACTURER  |
|----------------------------------|--------------|---------|-------------------------------|---------------|
| C.....1                          | 59.34.2470   | 47p     | 5 %, 63V, N150                |               |
| C.....2                          | 59.34.2470   | 47p     | 5 %, 63V, N150                |               |
| C.....3                          | 59.34.2470   | 47p     | 5 %, 63V, N150                |               |
| C.....4                          | 59.06.0104   | 100n    | 10 %, 63V                     |               |
| C.....5                          | 59.02.2104   | 100n    | 5 %, 100V                     |               |
| C.....6                          | 59.06.0104   | 100n    | 10 %, 63V                     |               |
| C.....7                          | 59.02.2104   | 100n    | 5 %, 100V                     |               |
| C.....8                          | 59.34.2470   | 47p     | 5 %, 63V, N150                |               |
| C.....9                          | 59.34.2470   | 47p     | 5 %, 63V, N150                |               |
| C.....10                         | 59.34.2470   | 47p     | 5 %, 63V, N150                |               |
| C.....11                         | 59.34.2470   | 47p     | 5 %, 63V, N150                |               |
| C.....12                         | 59.34.2470   | 47p     | 5 %, 63V, N150                |               |
| C.....13                         | 59.02.2104   | 100n    | 5 %, 100V                     |               |
| J.....1                          | 54.21.2002   | XLR     | FEM., VERTICAL PCB-MOUNT      |               |
| J.....2                          | 54.21.2002   | XLR     | FEM., VERTICAL PCB-MOUNT      |               |
| J.....3                          | 54.21.2002   | XLR     | FEM., VERTICAL PCB-MOUNT      |               |
| J.....4                          | 54.21.2002   | XLR     | FEM., VERTICAL PCB-MOUNT      |               |
| J.....5                          | 54.21.2020   | BNC     | STR., FEM., BNC CONNECTOR     |               |
| J.....6                          | 54.21.2020   | BNC     | STR., FEM., BNC CONNECTOR     |               |
| J.....7                          | 54.21.2020   | BNC     | STR., FEM., BNC CONNECTOR     |               |
| J.....8                          | 54.13.0036   | 9-P     | STR., FEM., J-DTYPE WRAP L=17 |               |
| J.....9                          | 54.13.0036   | 9-P     | STR., FEM., J-DTYPE WRAP L=17 |               |
| J.....10                         | 54.13.0036   | 9-P     | STR., FEM., J-DTYPE WRAP L=17 |               |
| J.....11                         | 54.13.0036   | 9-P     | STR., FEM., J-DTYPE WRAP L=17 |               |
| J.....12                         | 54.13.0036   | 9-P     | STR., FEM., J-DTYPE WRAP L=17 |               |
| J.....13                         | 54.13.0036   | 9-P     | STR., FEM., J-DTYPE WRAP L=17 |               |
| J.....14                         | 54.26.0055   | 5-P     | ANG., FEM., J-MP              |               |
| J.....15                         | 54.13.0036   | 9-P     | STR., FEM., J-DTYPE WRAP L=17 |               |
| J.....16                         | 54.11.2011   | 96-P    | STR., FEM., J-EU-C 3*32P ACT. |               |
| J.....17                         | 54.11.2011   | 96-P    | STR., FEM., J-EU-C 3*32P ACT. |               |
| MP....1                          | 1.863.612.11 | 1 pce   | D827 PIF & SSTC I/O PCB UL    |               |
| MP....2                          | 1.863.612.01 | 1 pce   | NR-ETIKETTE 5 * 20            |               |
| MP....3                          | 1.863.612.02 | 1 pce   | TRAEGERBLECH PIF & SSTC       |               |
| MP....4                          | 23.24.7280   | 6 pcs   | LIN-FORMSCH.ZNSW,KS D2.5 * 8  |               |
| MP....5                          | 23.59.0103   | 9 pcs   | LIN-FORMSCHIR., ZN, D2.2 * 5  |               |
| MP....6                          | 21.27.3354   | 18 pcs  | LS- SCHR. KS . NI , M 3 * 6   |               |
| MP....7                          | 21.53.9354   | 7 pcs   | Z - SCHR.IS, M.SICH, M 3 * 6  |               |
| MP....8                          | 21.16.1000   | 18 pcs  | RIPPENSCHIEBE D 3.2/5,5       |               |
| MP....9                          | 1.010.035.54 | 18 pcs  | VERTEGELUNGS-GEWINDEBOLZEN    |               |
| MP....10                         | 1.862.615.03 | 7 pcs   | NIETMÜTTER                    |               |
| MP....11                         | 23.21.1480   | 2 pcs   | ROHRNIETE, D 3.1 * 6.5        |               |
| MP....12                         | 23.01.2032   | 2 pcs   | U-SCHIEBE, D 3.2 / 7 * 0.5    |               |
| P.....1                          | 54.21.2001   | XLR     | MALE, VERTICAL PCB-MOUNT      |               |
| P.....2                          | 54.21.2001   | XLR     | MALE, VERTICAL PCB-MOUNT      |               |
| P.....3                          | 54.21.2001   | XLR     | MALE, VERTICAL PCB-MOUNT      |               |
| P.....4                          | 54.21.2001   | XLR     | MALE, VERTICAL PCB-MOUNT      |               |
| P.....5                          | 54.21.2001   | XLR     | MALE, VERTICAL PCB-MOUNT      |               |
| 1.863.612.00 D827 PIF & SSTC I/O |              |         |                               | PG 93/10/0400 |

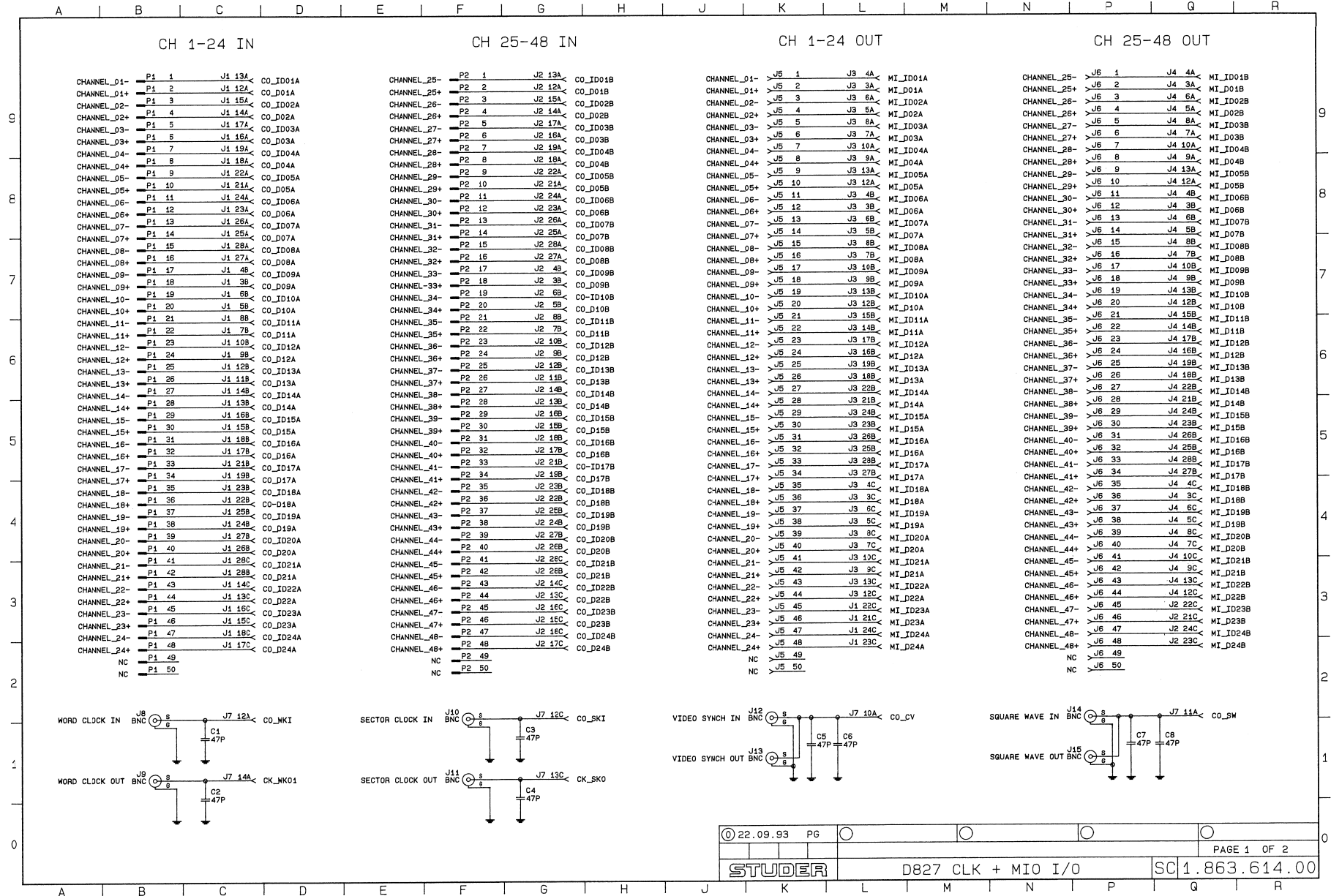


|      |          |      |       |      |
|------|----------|------|-------|------|
| ○    |          |      |       |      |
| ①    | 29.11.93 | SH   |       |      |
| ②    | 04.10.93 | PG   |       |      |
| ING. | DATUM    | SEZ. | REPR. | GES. |

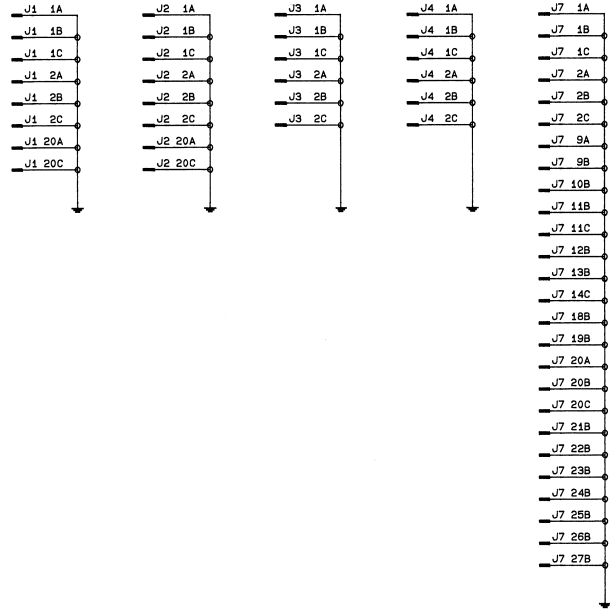
|        |                     |    |              |
|--------|---------------------|----|--------------|
| STUDER | D827 PIF + SSTC I/O | BP | 1.863.612.00 |
|--------|---------------------|----|--------------|

STUDER D827 MCH

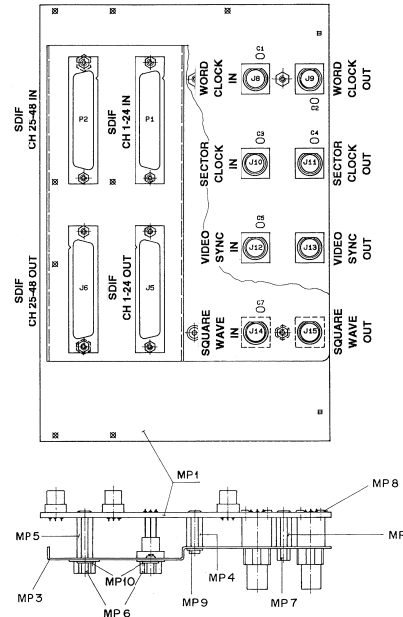
CLK + MIO I / O 1.863.614.00



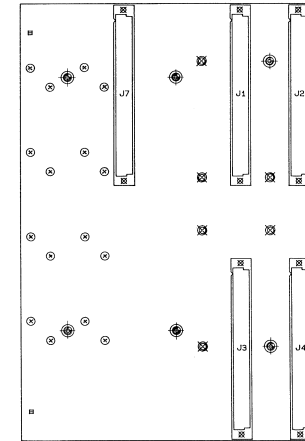
CLK + MIO I / O 1.863.614.00



component side



soldering side



FROM / TO BASIS BOARD LEFT 1.863.610

|               |              |     |      |       |      |
|---------------|--------------|-----|------|-------|------|
| IND.          | DATUM        | PG. | GEZ. | GEPR. | SES. |
| 22.09.93      |              |     |      |       |      |
| BLATT 1 VON 1 |              |     |      |       |      |
| BP            | 1.863.614.00 |     |      |       |      |

STUDER

D827 CLK + MIO I/O

Ad . . POS. . . REF. No. . . DESCRIPTION . . . MANUFACTURER

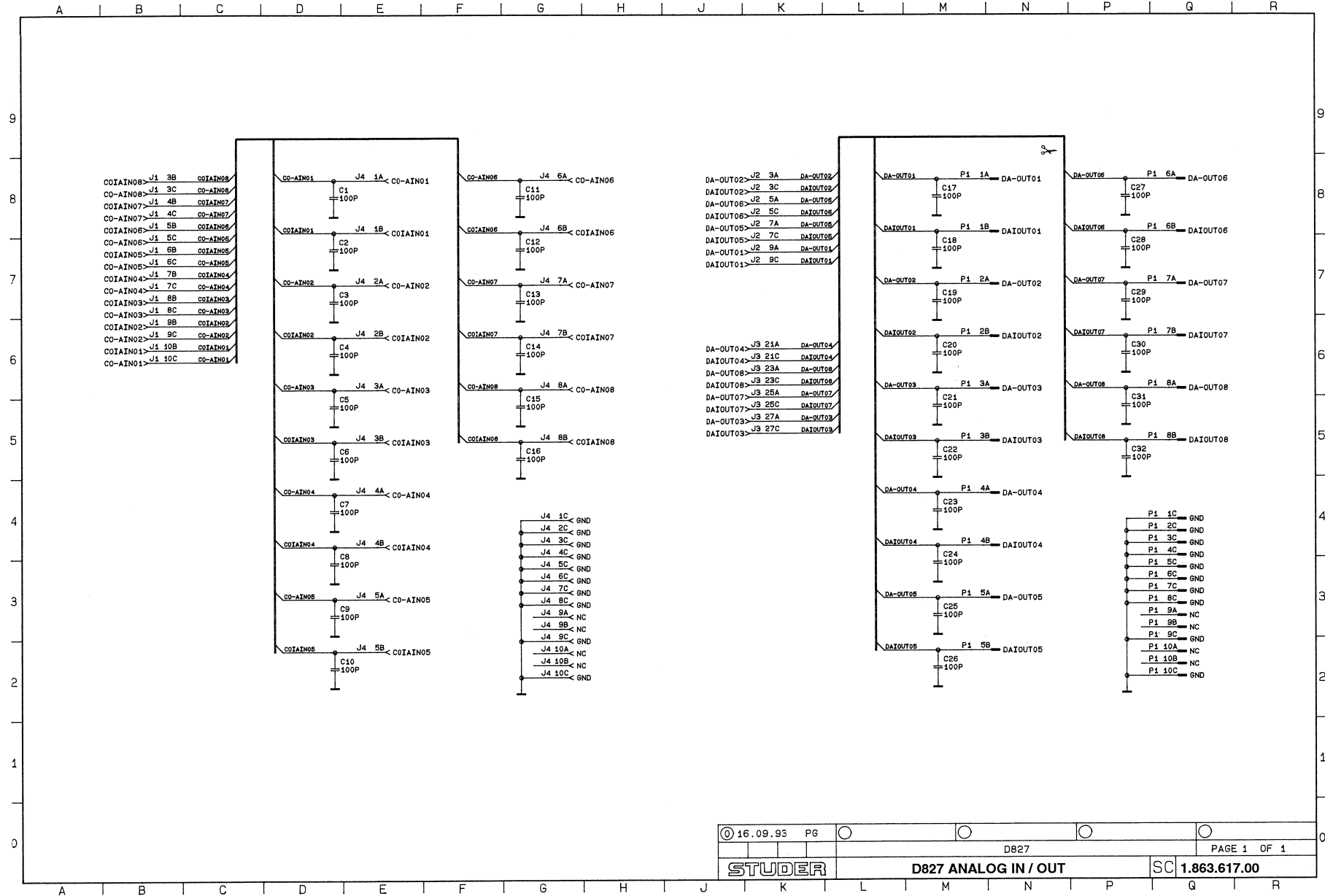
|          |              |        |     |     |      |                                 |
|----------|--------------|--------|-----|-----|------|---------------------------------|
| C.....1  | 59.34.2470   | 47p    | 5 % | 63V | N150 |                                 |
| C.....2  | 59.34.2470   | 47p    | 5 % | 63V | N150 |                                 |
| C.....3  | 59.34.2470   | 47p    | 5 % | 63V | N150 |                                 |
| C.....4  | 59.34.2470   | 47p    | 5 % | 63V | N150 |                                 |
| C.....5  | 59.34.2470   | 47p    | 5 % | 63V | N150 |                                 |
| C.....6  | 00.00.0000   |        |     |     |      | not used                        |
| C.....7  | 59.34.2470   | 47p    | 5 % | 63V | N150 |                                 |
| C.....8  | 00.00.0000   |        |     |     |      | not used                        |
| J.....1  | 54.11.2011   | 96-P   |     |     |      | STR., FEM., J-EU-C 3*32P ACT.   |
| J.....2  | 54.11.2011   | 96-P   |     |     |      | STR., FEM., J-EU-C 3*32P ACT.   |
| J.....3  | 54.11.2011   | 96-P   |     |     |      | STR., FEM., J-EU-C 3*32P ACT.   |
| J.....4  | 54.11.2011   | 96-P   |     |     |      | STR., FEM., J-EU-C 3*32P ACT.   |
| J.....5  | 54.13.0040   | 50-P   |     |     |      | STR., FEM., J-DTYPE WRAP L-17   |
| J.....6  | 54.13.0040   | 50-P   |     |     |      | STR., FEM., J-DTYPE WRAP L-17   |
| J.....7  | 54.11.2011   | 96-P   |     |     |      | STR., FEM., J-EU-C 3*32P ACT.   |
| J.....8  | 54.21.2020   | BNC    |     |     |      | STR., FEM., BNC CONNECTOR       |
| J.....9  | 54.21.2020   | BNC    |     |     |      | STR., FEM., BNC CONNECTOR       |
| J.....10 | 54.21.2020   | BNC    |     |     |      | STR., FEM., BNC CONNECTOR       |
| J.....11 | 54.21.2020   | BNC    |     |     |      | STR., FEM., BNC CONNECTOR       |
| J.....12 | 54.21.2020   | BNC    |     |     |      | STR., FEM., BNC CONNECTOR       |
| J.....13 | 54.21.2020   | BNC    |     |     |      | STR., FEM., BNC CONNECTOR       |
| J.....14 | 54.21.2020   | BNC    |     |     |      | STR., FEM., BNC CONNECTOR       |
| J.....15 | 54.21.2020   | BNC    |     |     |      | STR., FEM., BNC CONNECTOR       |
| MP....1  | 1.863.614.11 | 1 pce  |     |     |      | D827 CLK + MIO I/O PCB UL       |
| MP....2  | 1.863.614.01 | 1 pce  |     |     |      | NR-ETIKETTE 5 * 20              |
| MP....3  | 1.863.614.02 | 1 pce  |     |     |      | TRAEGERBLECH CLK + MIO          |
| MP....4  | 1.863.614.03 | 4 pcs  |     |     |      | NIETMUTTER M3 * 14.2            |
| MP....5  | 1.862.615.02 | 2 pcs  |     |     |      | NIETUITER                       |
| MP....6  | 1.010.035.54 | 8 pcs  |     |     |      | VERIEGELUNGS-GEWINDBOLZEN       |
| MP....7  | 1.010.140.27 | 2 pcs  |     |     |      | GEWINDBOLZEN, M3/M5 * 5.8       |
| MP....8  | 20.24.7290   | 16 pcs |     |     |      | LIN-FORMSCH. ZINN, KS 02, 5 * 8 |
| MP....9  | 21.53.9584   | 2 pcs  |     |     |      | Z-SCHR. IS, M. SICH, M 3 * 6    |
| MP....10 | 24.16.1030   | 10 pcs |     |     |      | RIPPENSCHLEIBE, D 3.2/5.5       |
| P.....1  | 54.13.0065   | 50-P   |     |     |      | STR., MALE, P-DTYPE WRAP-L17    |
| P.....2  | 54.13.0065   | 50-P   |     |     |      | STR., MALE, P-DTYPE WRAP-L17    |

1.863.614.00 D827 CLK + MIO I/O PG 93/09/2200

|          |    |  |                    |  |                 |
|----------|----|--|--------------------|--|-----------------|
| 22.09.93 | PG |  |                    |  |                 |
| STUDER   |    |  | D827 CLK + MIO I/O |  | SC 1.863.614.00 |
|          |    |  |                    |  | PAGE 2 OF 2     |



ANALOG IN / OUT 1.863.617.00



|               |    |  |  |                             |  |  |  |                        |  |
|---------------|----|--|--|-----------------------------|--|--|--|------------------------|--|
| © 16.09.93    | PG |  |  |                             |  |  |  |                        |  |
| D827          |    |  |  |                             |  |  |  | PAGE 1 OF 1            |  |
| <b>STUDER</b> |    |  |  | <b>D827 ANALOG IN / OUT</b> |  |  |  | <b>SC 1.863.617.00</b> |  |

ANALOG IN / OUT 1.863.617.00

**component side**

**soldering side**

**FROM CORRESPONDING BASIS BOARD RIGHT (1.863.611) CONNECTOR**

|               |       |      |       |      |  |  |  |  |  |
|---------------|-------|------|-------|------|--|--|--|--|--|
|               |       |      |       |      |  |  |  |  |  |
| 16.09.93      | PO    |      |       |      |  |  |  |  |  |
| END           | DATUM | DEF. | CECH. | ECR. |  |  |  |  |  |
| BLATT 1 VON 1 |       |      |       |      |  |  |  |  |  |

|        |                      |    |              |
|--------|----------------------|----|--------------|
| STUDER | D827 ANALOG IN / OUT | BP | 1.863.617.00 |
|--------|----------------------|----|--------------|

| Ad      | ..POS.       | ..REF.No. | DESCRIPTION             | MANUFACTURER |
|---------|--------------|-----------|-------------------------|--------------|
| C....1  | 59.05.1101   | 100 P     | 1%, 630V, PP            |              |
| C....2  | 59.05.1101   | 100 P     | 1%, 630V, PP            |              |
| C....3  | 59.05.1101   | 100 P     | 1%, 630V, PP            |              |
| C....4  | 59.05.1101   | 100 P     | 1%, 630V, PP            |              |
| C....5  | 59.05.1101   | 100 P     | 1%, 630V, PP            |              |
| C....6  | 59.05.1101   | 100 P     | 1%, 630V, PP            |              |
| C....7  | 59.05.1101   | 100 P     | 1%, 630V, PP            |              |
| C....8  | 59.05.1101   | 100 P     | 1%, 630V, PP            |              |
| C....9  | 59.05.1101   | 100 P     | 1%, 630V, PP            |              |
| C....10 | 59.05.1101   | 100 P     | 1%, 630V, PP            |              |
| C....11 | 59.05.1101   | 100 P     | 1%, 630V, PP            |              |
| C....12 | 59.05.1101   | 100 P     | 1%, 630V, PP            |              |
| C....13 | 59.05.1101   | 100 P     | 1%, 630V, PP            |              |
| C....14 | 59.05.1101   | 100 P     | 1%, 630V, PP            |              |
| C....15 | 59.05.1101   | 100 P     | 1%, 630V, PP            |              |
| C....16 | 59.05.1101   | 100 P     | 1%, 630V, PP            |              |
| C....17 | 59.05.1101   | 100 P     | 1%, 630V, PP            |              |
| C....18 | 59.05.1101   | 100 P     | 1%, 630V, PP            |              |
| C....19 | 59.05.1101   | 100 P     | 1%, 630V, PP            |              |
| C....20 | 59.05.1101   | 100 P     | 1%, 630V, PP            |              |
| C....21 | 59.05.1101   | 100 P     | 1%, 630V, PP            |              |
| C....22 | 59.05.1101   | 100 P     | 1%, 630V, PP            |              |
| C....23 | 59.05.1101   | 100 P     | 1%, 630V, PP            |              |
| C....24 | 59.05.1101   | 100 P     | 1%, 630V, PP            |              |
| C....25 | 59.05.1101   | 100 P     | 1%, 630V, PP            |              |
| C....26 | 59.05.1101   | 100 P     | 1%, 630V, PP            |              |
| C....27 | 59.05.1101   | 100 P     | 1%, 630V, PP            |              |
| C....28 | 59.05.1101   | 100 P     | 1%, 630V, PP            |              |
| C....29 | 59.05.1101   | 100 P     | 1%, 630V, PP            |              |
| C....30 | 59.05.1101   | 100 P     | 1%, 630V, PP            |              |
| C....31 | 59.05.1101   | 100 P     | 1%, 630V, PP            |              |
| C....32 | 59.05.1101   | 100 P     | 1%, 630V, PP            |              |
| J....1  | 54.11.2011   | 3*32 POL  | EURO/C, ACTION-PIN      |              |
| J....2  | 54.11.2011   | 3*32 POL  | EURO/C, ACTION-PIN      |              |
| J....3  | 54.11.2011   | 3*32 POL  | EURO/C, ACTION-PIN      |              |
| J....4  | 54.14.1032   | 30 POL    | KNIFE CONNECTOR, FEMALE |              |
| MP....1 | 1.863.617.11 | 1 pce     | D827 ANA IN/OUT PCB //! |              |
| MP....2 | 1.863.617.01 | 1 pce     | NR-ETIKETTE 5 * 20      |              |
| MP....3 | 54.14.7002   | 2 pcs     | RIEGLWANNE 30/59        |              |
| MP....4 | 54.14.7020   | 2 pcs     | PASS-STIFT              |              |
| MP....5 | 54.14.7023   | 2 pcs     | PASS-BUCHE              |              |
| MP....6 | 1.863.613.02 | 4 pcs     | NETMUTTER M3*3,6        |              |
| MP....7 | 1.863.617.02 | 4 pcs     | NETMUTTER M3*21,5       |              |
| P....1  | 54.14.1022   | 30 POL    | KNIFE CONNECTOR, MALE   |              |

D827 ANALOG IN / OUT 1.863.617.00      GP 93/09/1600

END

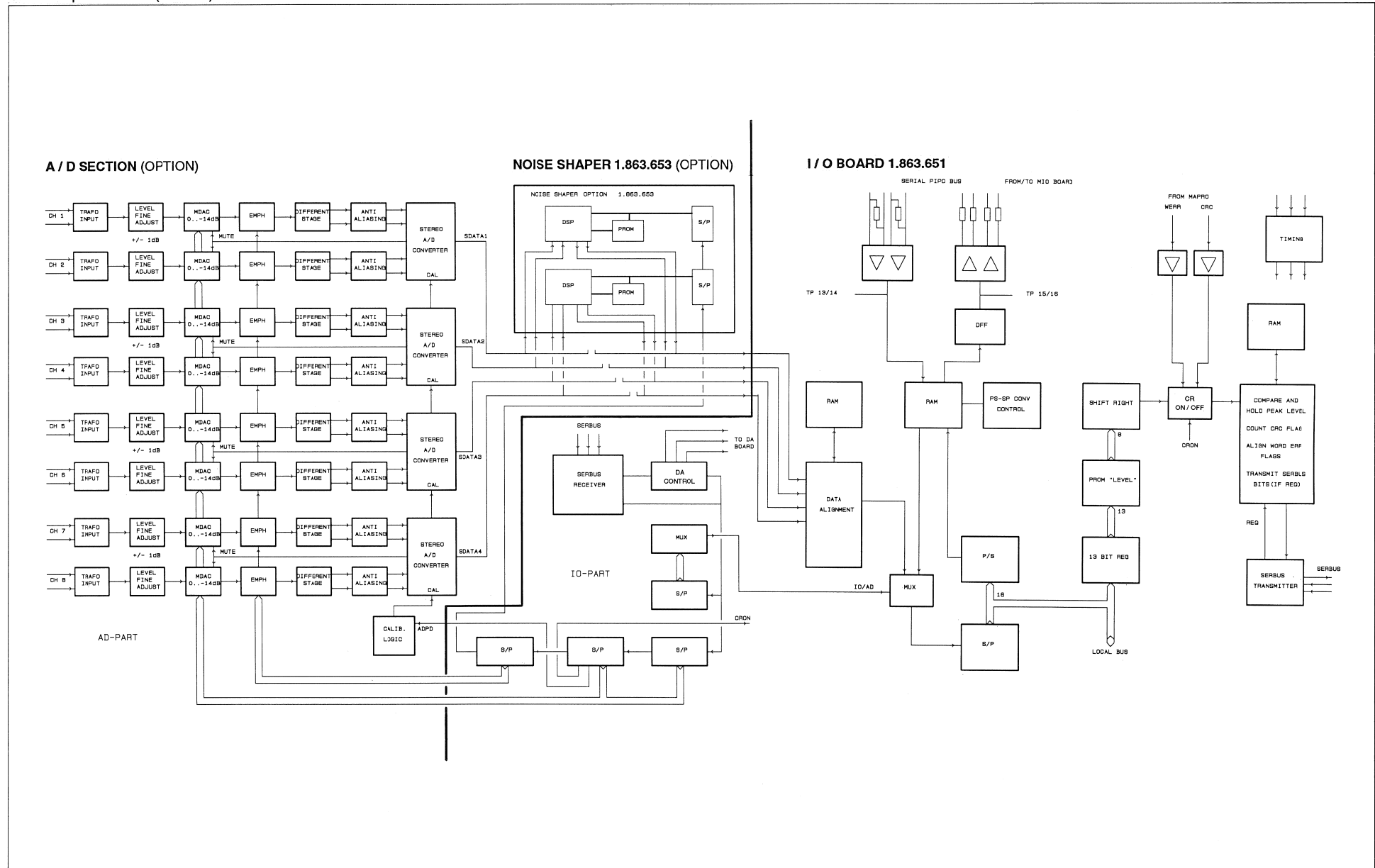
# STUDER D827 MCH

## BLOCK DIAGRAM

-A / D & I / O Board 1.863.650 (OPTION)

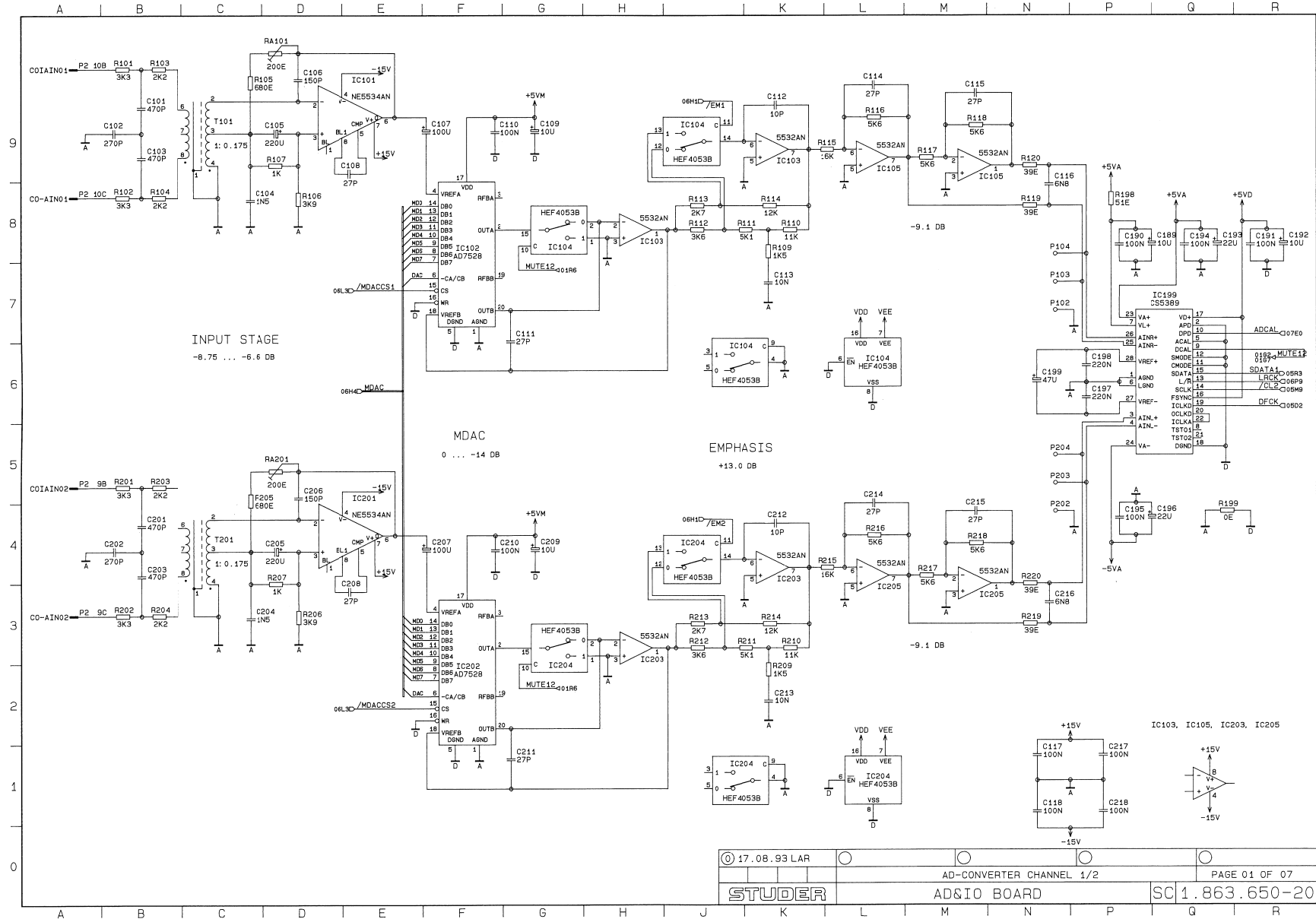
-I / O Board 1.863.651

-Noise Shaper 1.863.653 (OPTION)



A / D & I / O BOARD 1.863.650.20 (OPTION)

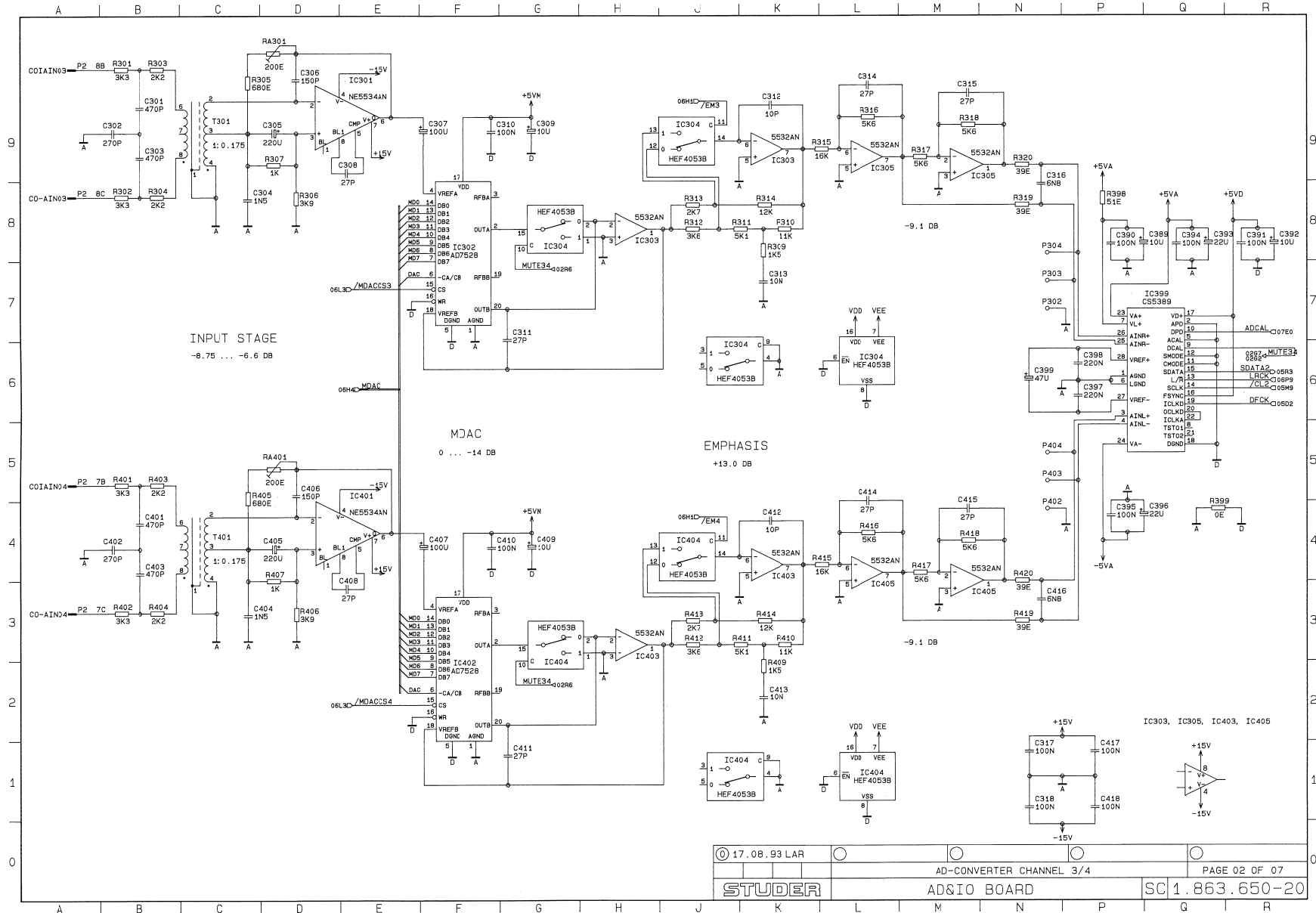
-A / D Converter Channel 1 / 2



|                |                          |                 |
|----------------|--------------------------|-----------------|
| © 17.08.93 LAR | AD-CONVERTER CHANNEL 1/2 | PAGE 01 OF 07   |
| STUDER         | AD&IO BOARD              | SC 1.863.650-20 |

A / D & I / O BOARD 1.863.650.20 (OPTION)

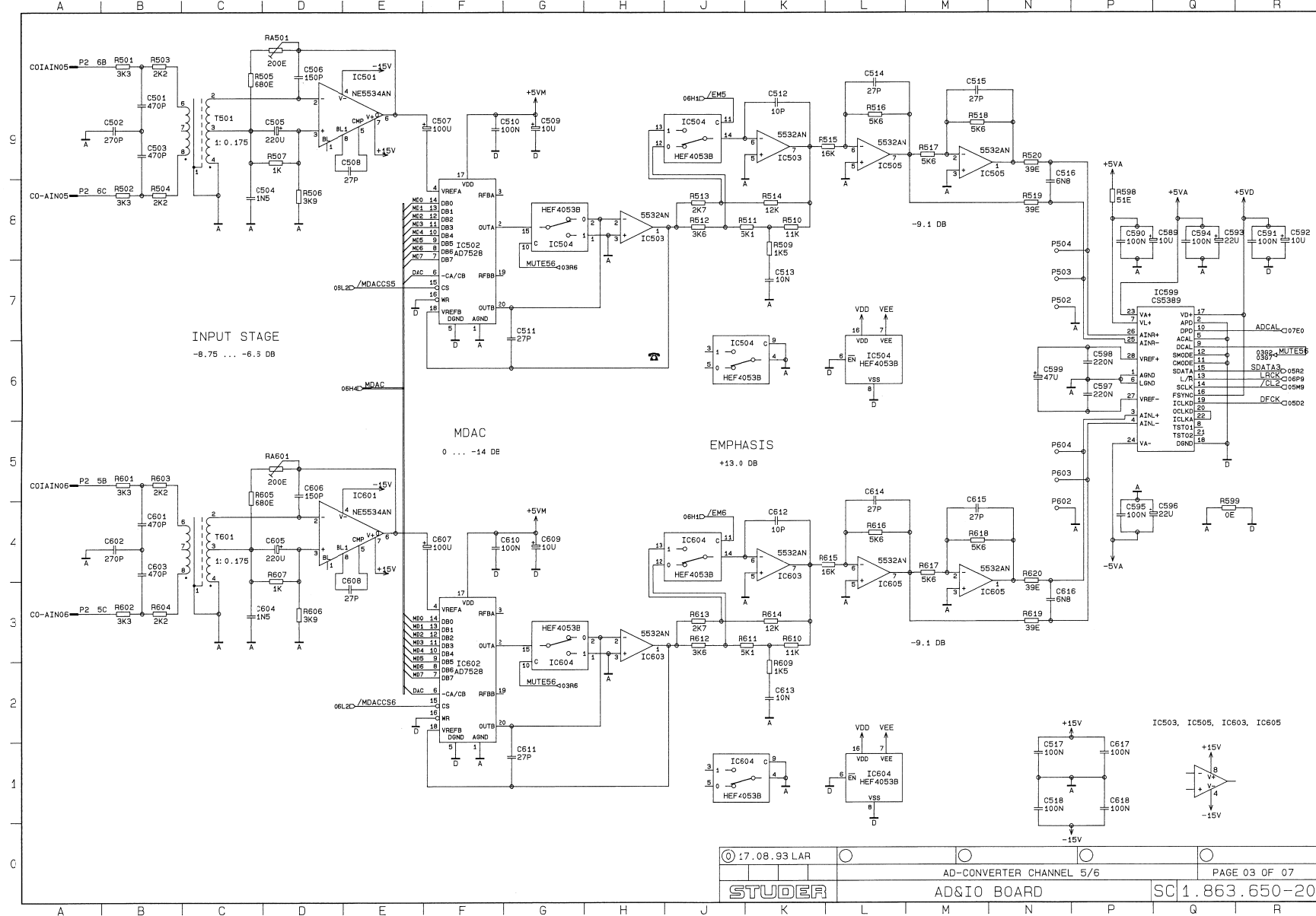
-A / D Converter Channel 3 / 4





A / D & I / O BOARD 1.863.650.20 (OPTION)

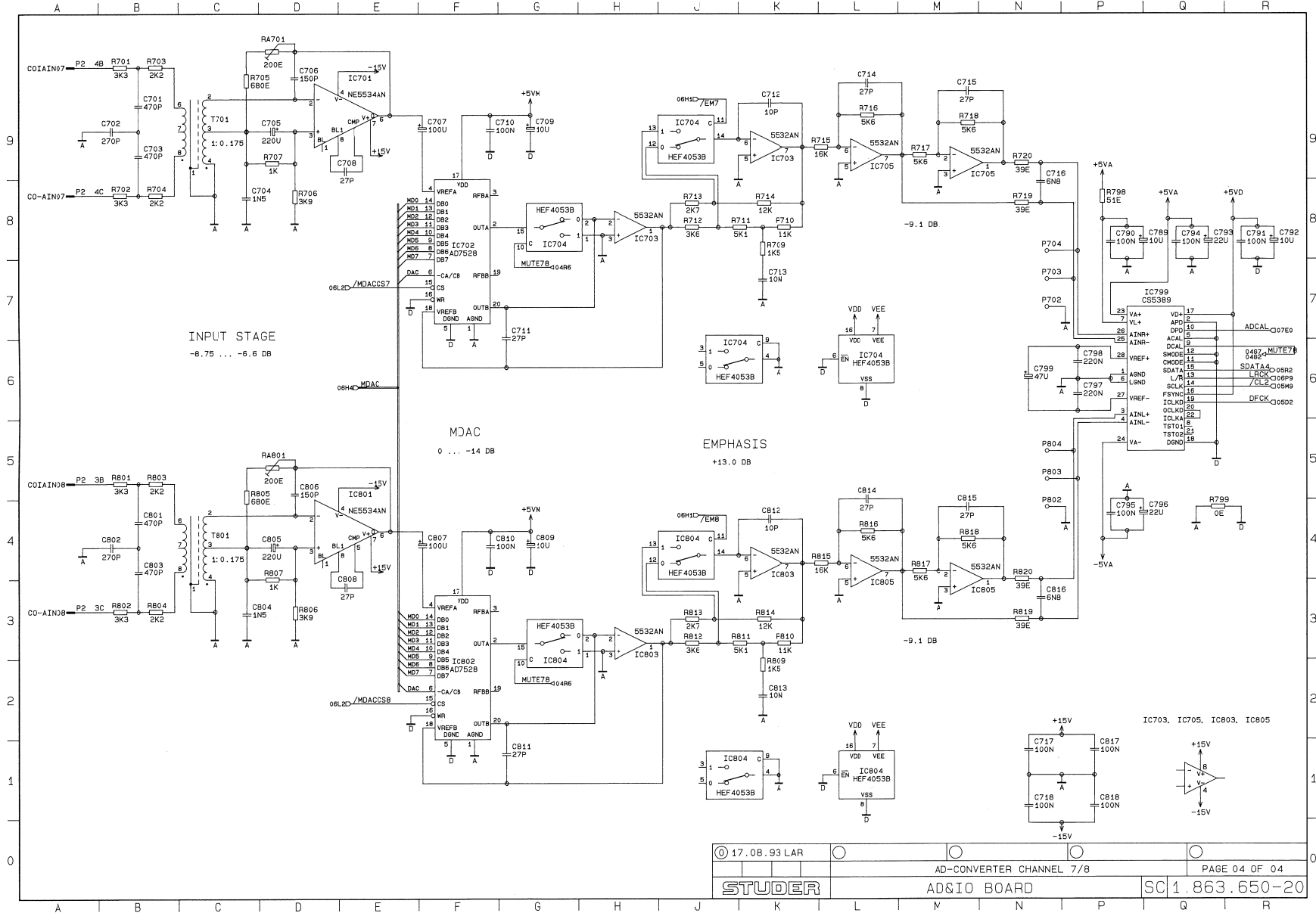
-A / D Converter Channel 5 / 6



|                |                          |                 |
|----------------|--------------------------|-----------------|
| © 17.08.93 LAR | AD-CONVERTER CHANNEL 5/6 | PAGE 03 OF 07   |
| STUDER         | AD&IO BOARD              | SC 1.863.650-20 |

A / D & I / O BOARD 1.863.650.20 (OPTION)

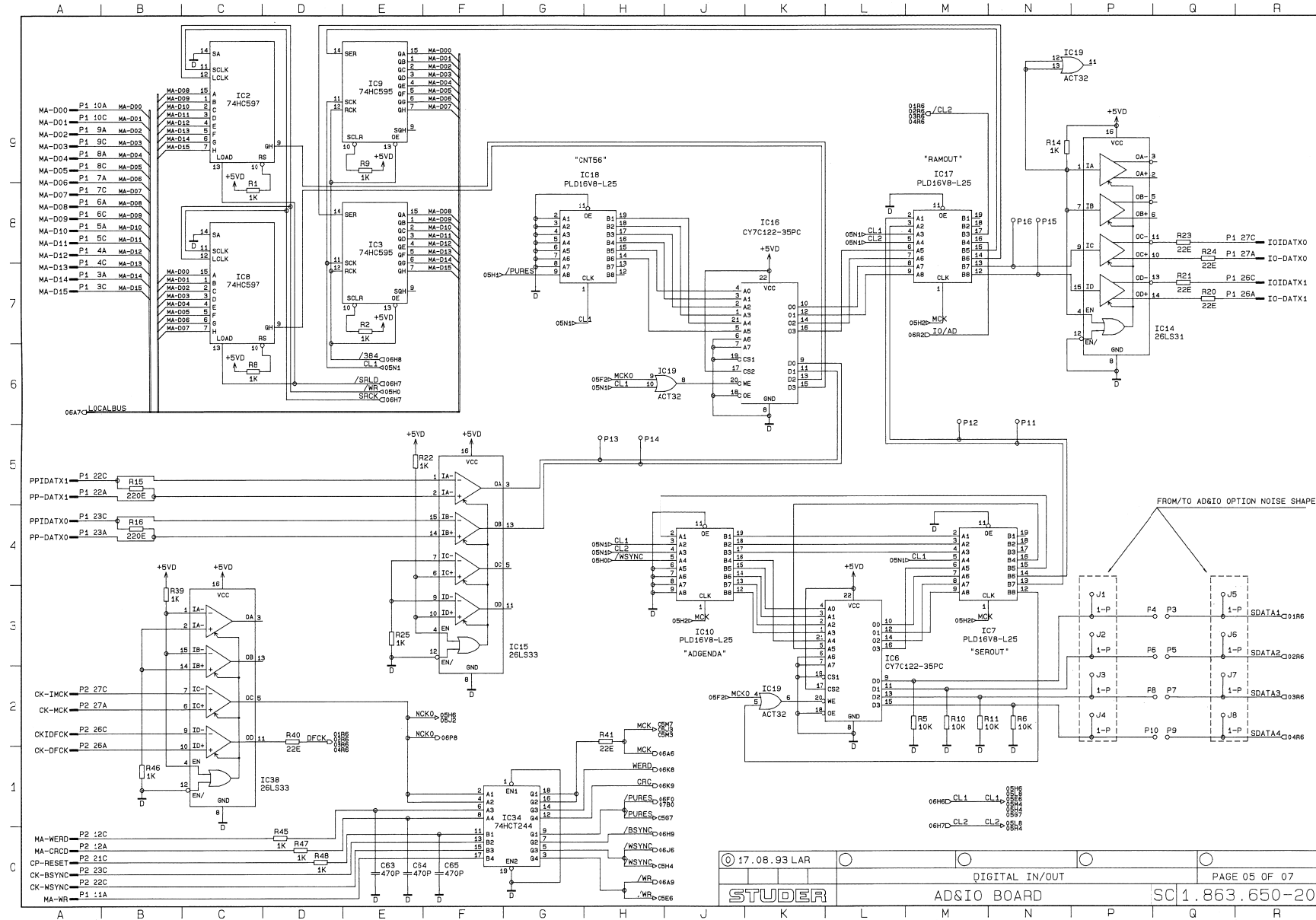
-A / D Converter Channel 7 / 8



STUDER D827 MCH

A / D & I / O BOARD 1.863.650.20 (OPTION)

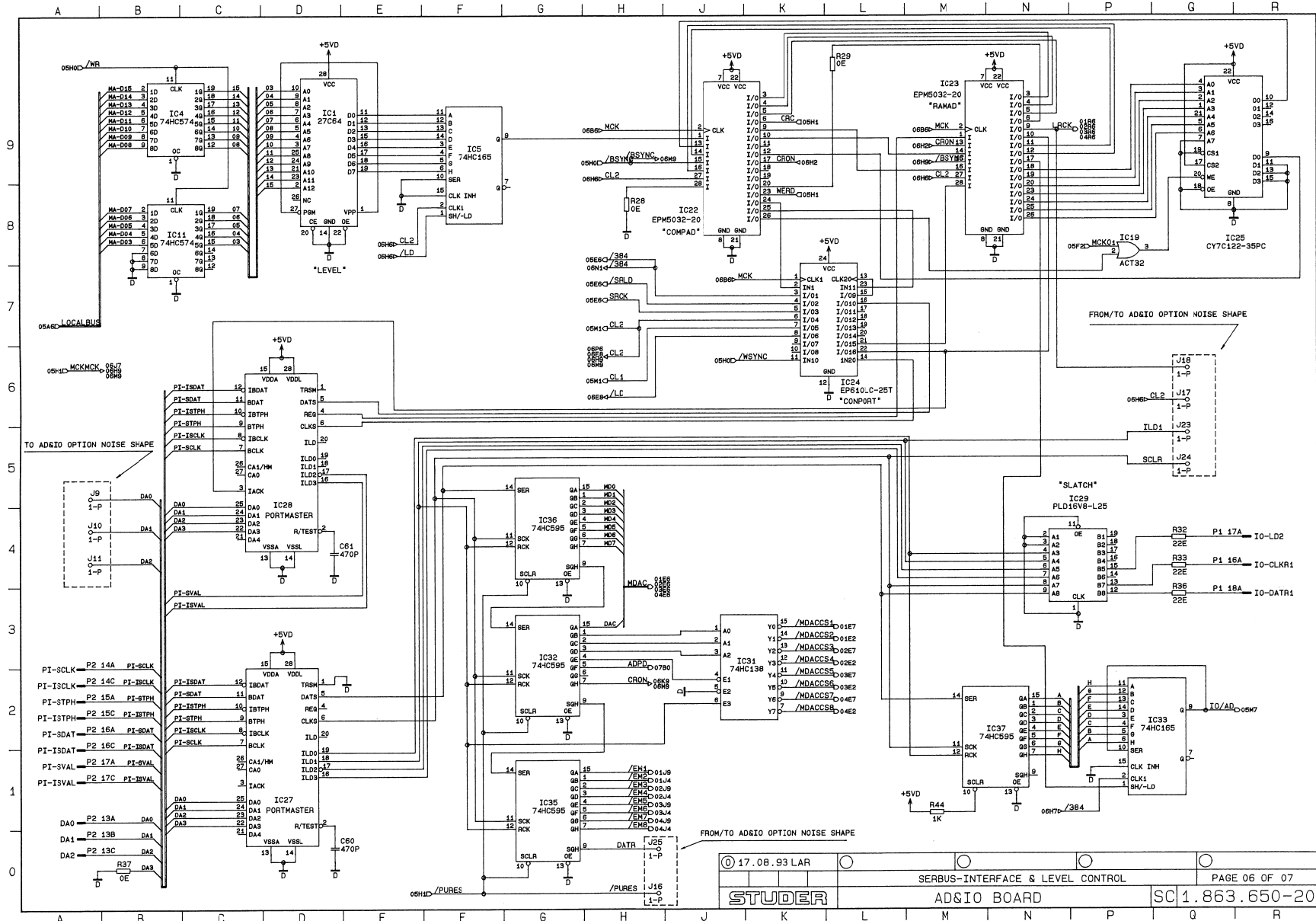
-Digital IN / OUT



|              |                |                 |
|--------------|----------------|-----------------|
| 17.08.93 LAR | DIGITAL IN/OUT | PAGE 05 OF 07   |
| STUDER       | AD&IO BOARD    | SC 1.863.650-20 |

A / D & I / O BOARD 1.863.650.20 (OPTION)

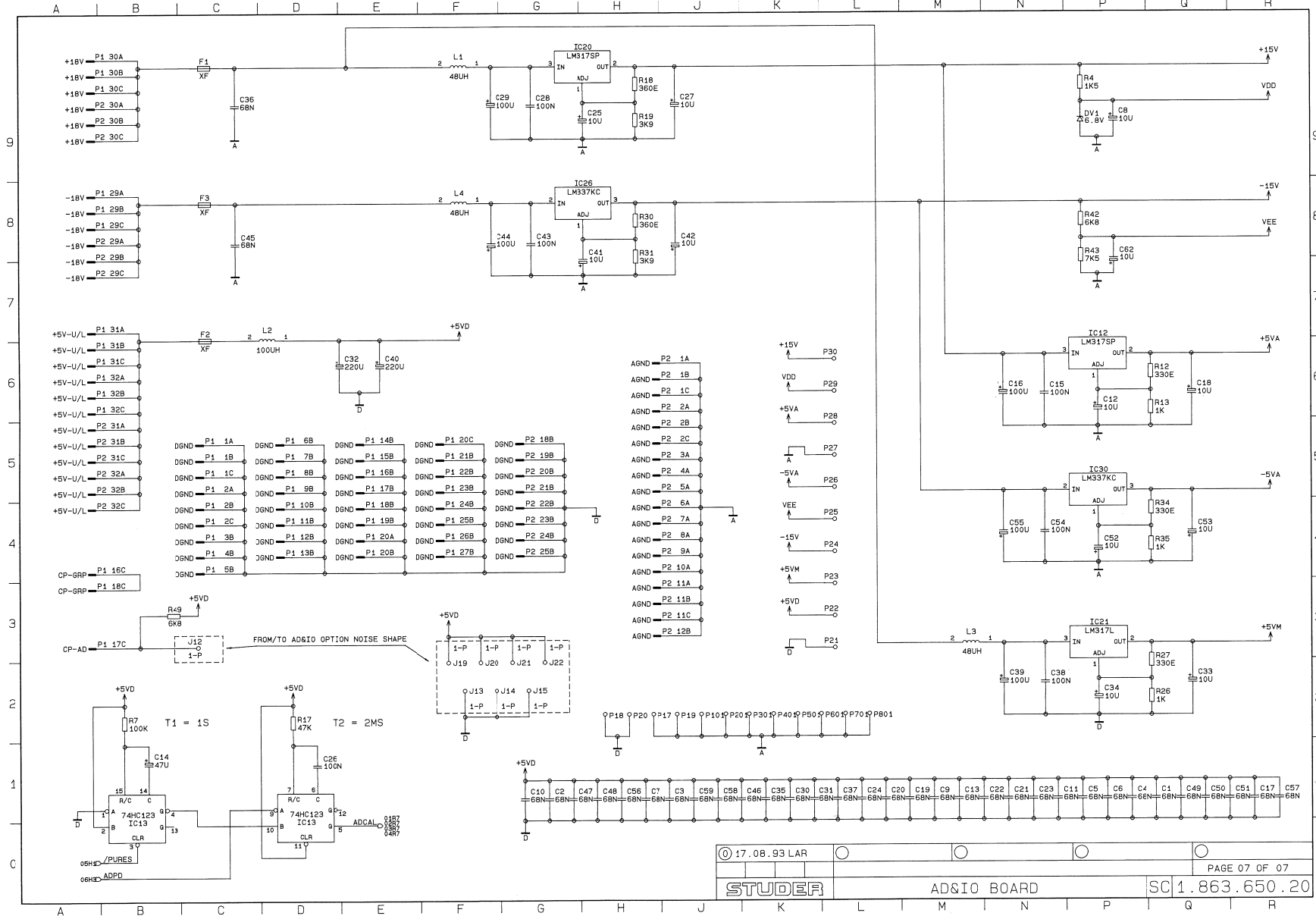
-Serbus-Interface & Level control



STUDER D827 MCH



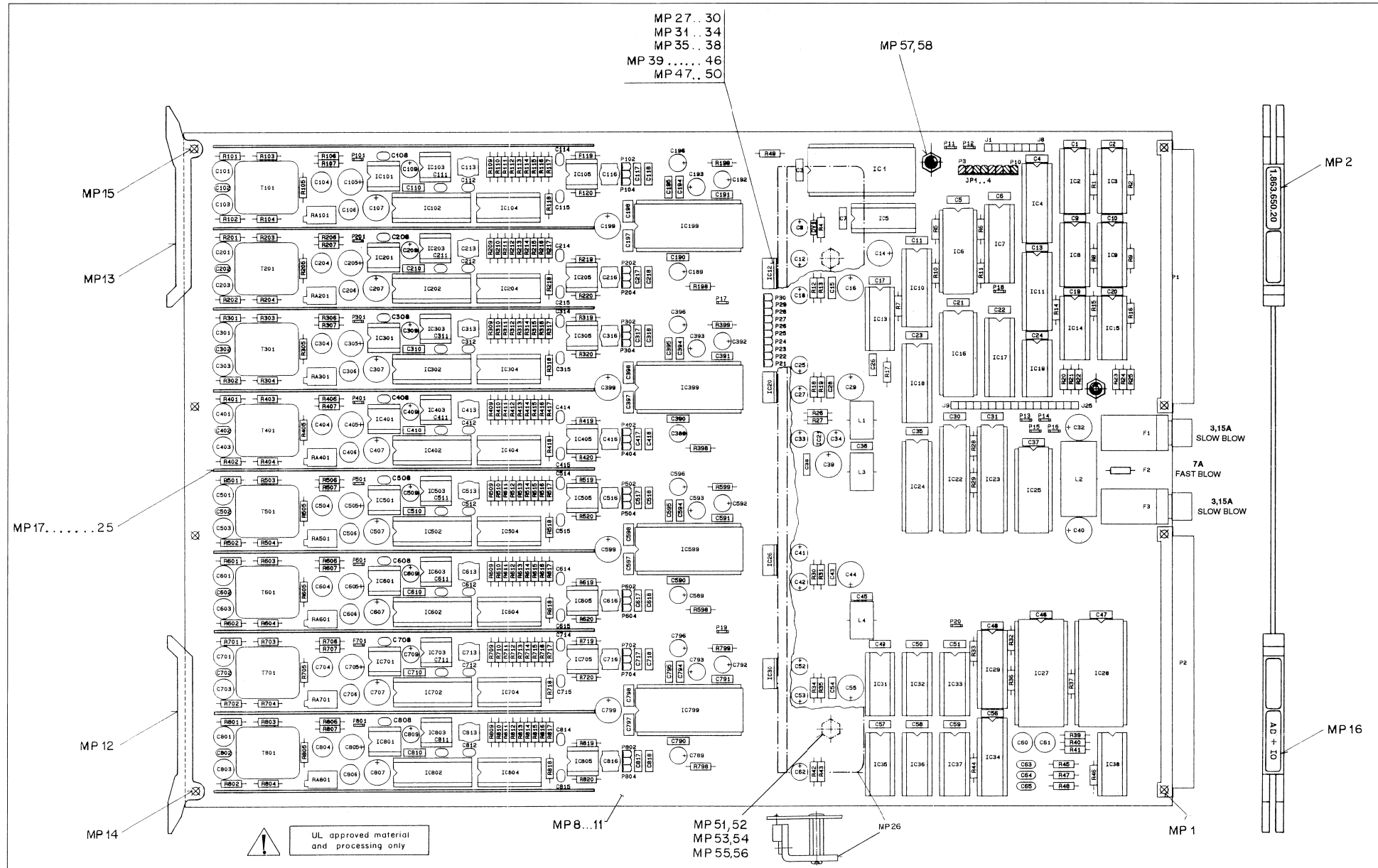
A / D & I / O BOARD 1.863.650.20 (OPTION)



A / D & I / O BOARD 1.863.650.20 (OPTION)



MP 27 . 30  
 MP 31 . 34  
 MP 35 . 38  
 MP 39 . . . . . 46  
 MP 47 . 50















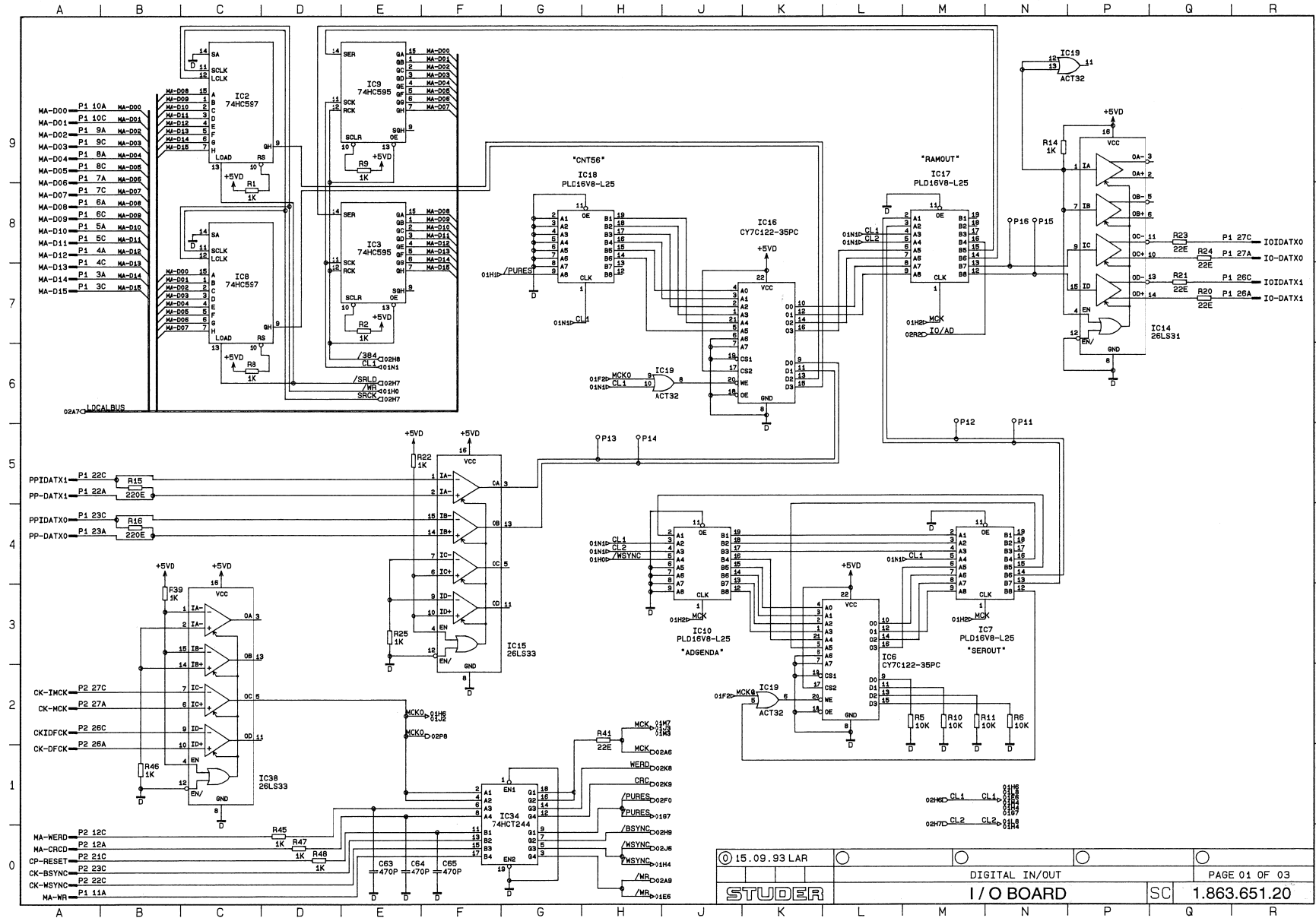
## A / D &amp; I / O BOARD 1.863.650.20 (OPTION)

| Ad | ..POS.. | ...REF.No... | DESCRIPTION..... | MANUFACTURER |
|----|---------|--------------|------------------|--------------|
|    | XIC.202 | 53.03.0165   | DIL20            |              |
|    | XIC.204 | 53.03.0168   | DIL16            |              |
|    | XIC.302 | 53.03.0165   | DIL20            |              |
|    | XIC.304 | 53.03.0168   | DIL16            |              |
|    | XIC.399 | 53.03.0173   | DIL28-6          |              |
|    | XIC.402 | 53.03.0165   | DIL20            |              |
|    | XIC.404 | 53.03.0168   | DIL16            |              |
|    | XIC.502 | 53.03.0165   | DIL20            |              |
|    | XIC.504 | 53.03.0168   | DIL16            |              |
|    | XIC.599 | 53.03.0173   | DIL28-6          |              |
|    | XIC.602 | 53.03.0165   | DIL20            |              |
|    | XIC.604 | 53.03.0168   | DIL16            |              |
|    | XIC.702 | 53.03.0165   | DIL20            |              |
|    | XIC.704 | 53.03.0168   | DIL16            |              |
|    | XIC.799 | 53.03.0173   | DIL28-6          |              |
|    | XIC.802 | 53.03.0165   | DIL20            |              |
|    | XIC.804 | 53.03.0168   | DIL16            |              |

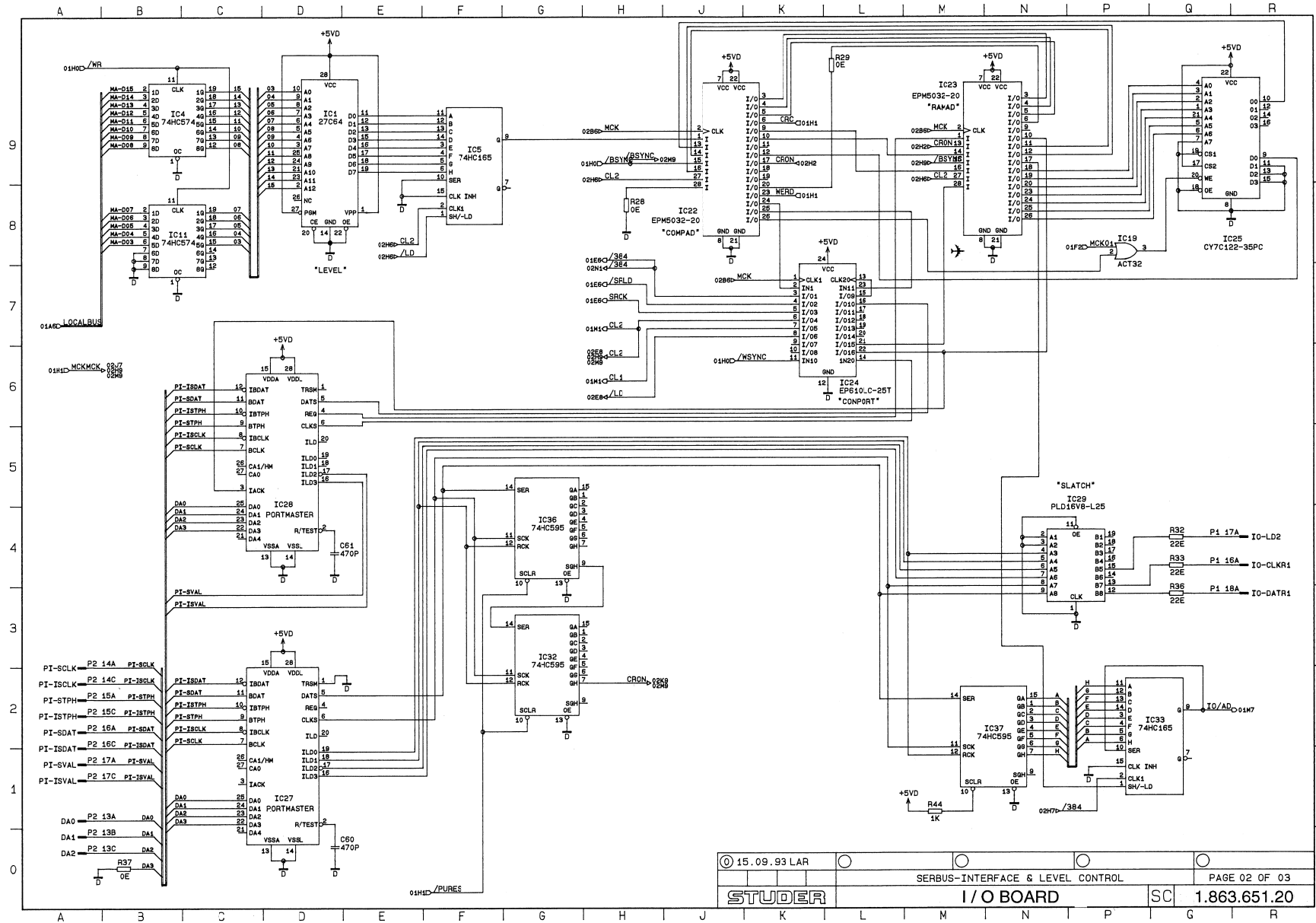
1.863.650-20 D827 AD&IO Board LAR93/08/1800

END  
→

I / O BOARD 1.863.651.20  
-Digital Input / Output

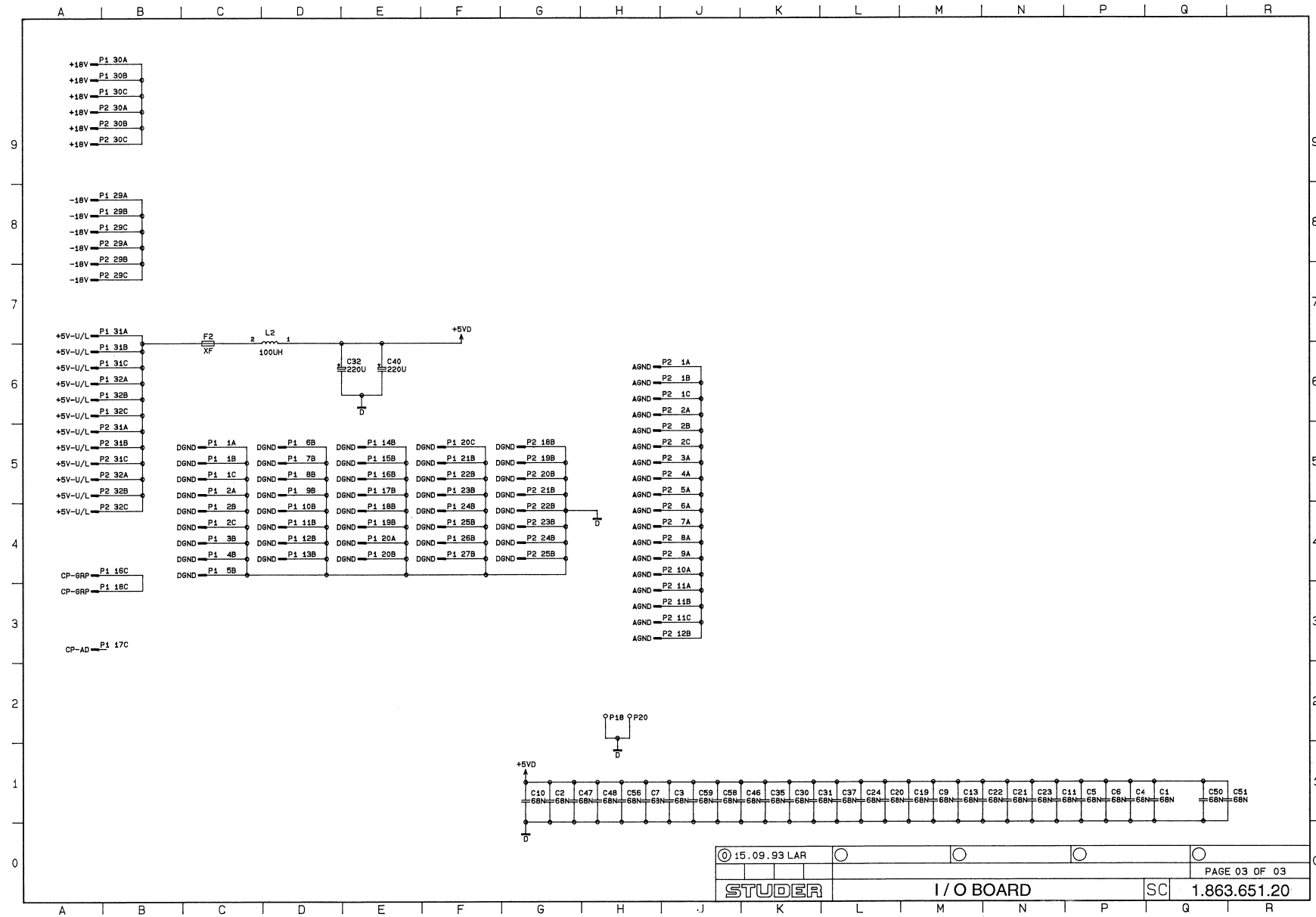


I / O BOARD 1.863.651.20  
-Serbus Interface & Level Control



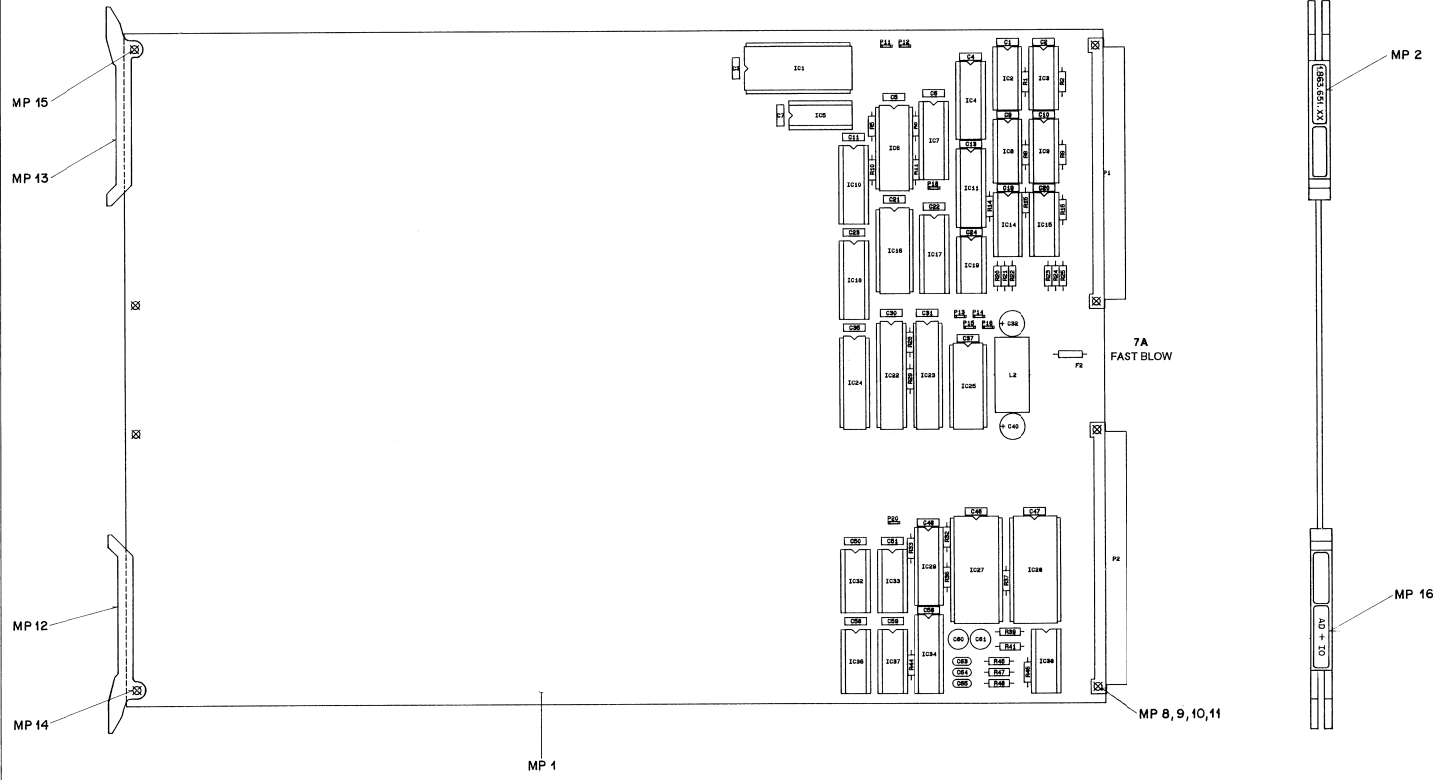


I / O BOARD 1.863.651.20



# STUDER D827 MCH

## I / O BOARD 1.863.651.20



|        |             |     |    |              |
|--------|-------------|-----|----|--------------|
| STUDER | I / O BOARD | ESE | BP | 1.863.651.20 |
|--------|-------------|-----|----|--------------|

| Ad      | POS        | REF.No | DESCRIPTION    | MANUFACTURER |
|---------|------------|--------|----------------|--------------|
| C....1  | 59.06.0683 | 68n    | 10 %, 63V      |              |
| C....2  | 59.06.0683 | 68n    | 10 %, 63V      |              |
| C....3  | 59.06.0683 | 68n    | 10 %, 63V      |              |
| C....4  | 59.06.0683 | 68n    | 10 %, 63V      |              |
| C....5  | 59.06.0683 | 68n    | 10 %, 63V      |              |
| C....6  | 59.06.0683 | 68n    | 10 %, 63V      |              |
| C....7  | 59.06.0683 | 68n    | 10 %, 63V      |              |
| C....9  | 59.06.0683 | 68n    | 10 %, 63V      |              |
| C....10 | 59.06.0683 | 68n    | 10 %, 63V      |              |
| C....11 | 59.06.0683 | 68n    | 10 %, 63V      |              |
| C....13 | 59.06.0683 | 68n    | 10 %, 63V      |              |
| C....19 | 59.06.0683 | 68n    | 10 %, 63V      |              |
| C....20 | 59.06.0683 | 68n    | 10 %, 63V      |              |
| C....21 | 59.06.0683 | 68n    | 10 %, 63V      |              |
| C....22 | 59.06.0683 | 68n    | 10 %, 63V      |              |
| C....23 | 59.06.0683 | 68n    | 10 %, 63V      |              |
| C....24 | 59.06.0683 | 68n    | 10 %, 63V      |              |
| C....30 | 59.06.0683 | 68n    | 10 %, 63V      |              |
| C....31 | 59.06.0683 | 68n    | 10 %, 63V      |              |
| C....32 | 59.22.3221 | 220u   | -20/+50 %, 10V |              |
| C....35 | 59.06.0683 | 68n    | 10 %, 63V      |              |
| C....37 | 59.06.0683 | 68n    | 10 %, 63V      |              |
| C....40 | 59.22.3221 | 220u   | -20/+50 %, 10V |              |
| C....46 | 59.06.0683 | 68n    | 10 %, 63V      |              |
| C....47 | 59.06.0683 | 68n    | 10 %, 63V      |              |
| C....48 | 59.06.0683 | 68n    | 10 %, 63V      |              |
| C....50 | 59.06.0683 | 68n    | 10 %, 63V      |              |

| Ad       | POS        | REF.No     | DESCRIPTION                      | MANUFACTURER |
|----------|------------|------------|----------------------------------|--------------|
| C....51  | 59.06.0683 | 68n        | 10 %, 63V                        |              |
| C....56  | 59.06.0683 | 68n        | 10 %, 63V                        |              |
| C....58  | 59.06.0683 | 68n        | 10 %, 63V                        |              |
| C....59  | 59.06.0683 | 68n        | 10 %, 63V                        |              |
| C....60  | 59.05.1471 | 470p       | 1 %, 630V                        |              |
| C....61  | 59.05.1471 | 470p       | 1 %, 630V                        |              |
| C....63  | 59.34.5471 | 470p       | 5 %, 63V, N1500                  |              |
| C....64  | 59.34.5471 | 470p       | 5 %, 63V, N1500                  |              |
| C....65  | 59.34.5471 | 470p       | 5 %, 63V, N1500                  |              |
| F....2   | 51.99.0133 | T7A        | MINIFUSE                         |              |
| IC....1  | 50.14.0155 | 27C64      | DIP28, 8K * 8 EPROM 250NS        |              |
| IC....2  | 50.17.1597 | 74HC597    | DIP16, 8 BIT LATCH / SHIFT REG.  |              |
| IC....3  | 50.17.1594 | 74HC595    | DIP16, 8 BIT SHIFT/OUT. REGISTER |              |
| IC....4  | 50.17.1574 | 74HC574    | DIP20, OCTAL 3-STATE DTYPE FF    |              |
| IC....5  | 50.17.1168 | 74HC165    | DIP16, 8BIT SI/PO SHIFT REGISTER |              |
| IC....6  | 50.14.0121 | CY7C122-35 | DIP22-4, RAM 256 * 4 3SNS        |              |
| IC....7  | 50.18.0100 | PLD16V8    | DIP20, PLD (SM 1.863.907.20)     |              |
| IC....8  | 50.17.1597 | 74HC597    | DIP16, 8 BIT LATCH / SHIFT REG.  |              |
| IC....9  | 50.17.1594 | 74HC595    | DIP16, 8 BIT SHIFT/OUT. REGISTER |              |
| IC....10 | 50.18.0100 | PLD16V8    | DIP20, PLD (SM 1.863.905.20)     |              |
| IC....11 | 50.17.1574 | 74HC574    | DIP20, OCTAL 3-STATE DTYPE FF    |              |
| IC....14 | 50.15.0106 | 26LS31     | DIP16, QUAD DIFFERENTIAL DRIVER  |              |
| IC....15 | 50.15.0109 | 26LS33     | DIP16, QUAD DIFF. LINE RECEIVER  |              |
| IC....16 | 50.14.0121 | CY7C122-35 | DIP22-4, RAM 256 * 4 3SNS        |              |
| IC....17 | 50.18.0100 | PLD16V8    | DIP20, PLD (SM 1.863.906.20)     |              |
| IC....18 | 50.18.0100 | PLD16V8    | DIP20, PLD (SM 1.863.904.20)     |              |
| IC....19 | 50.17.7032 | 74ACT32    | DIP14, QUAD 2 INPUT OR GATE      |              |

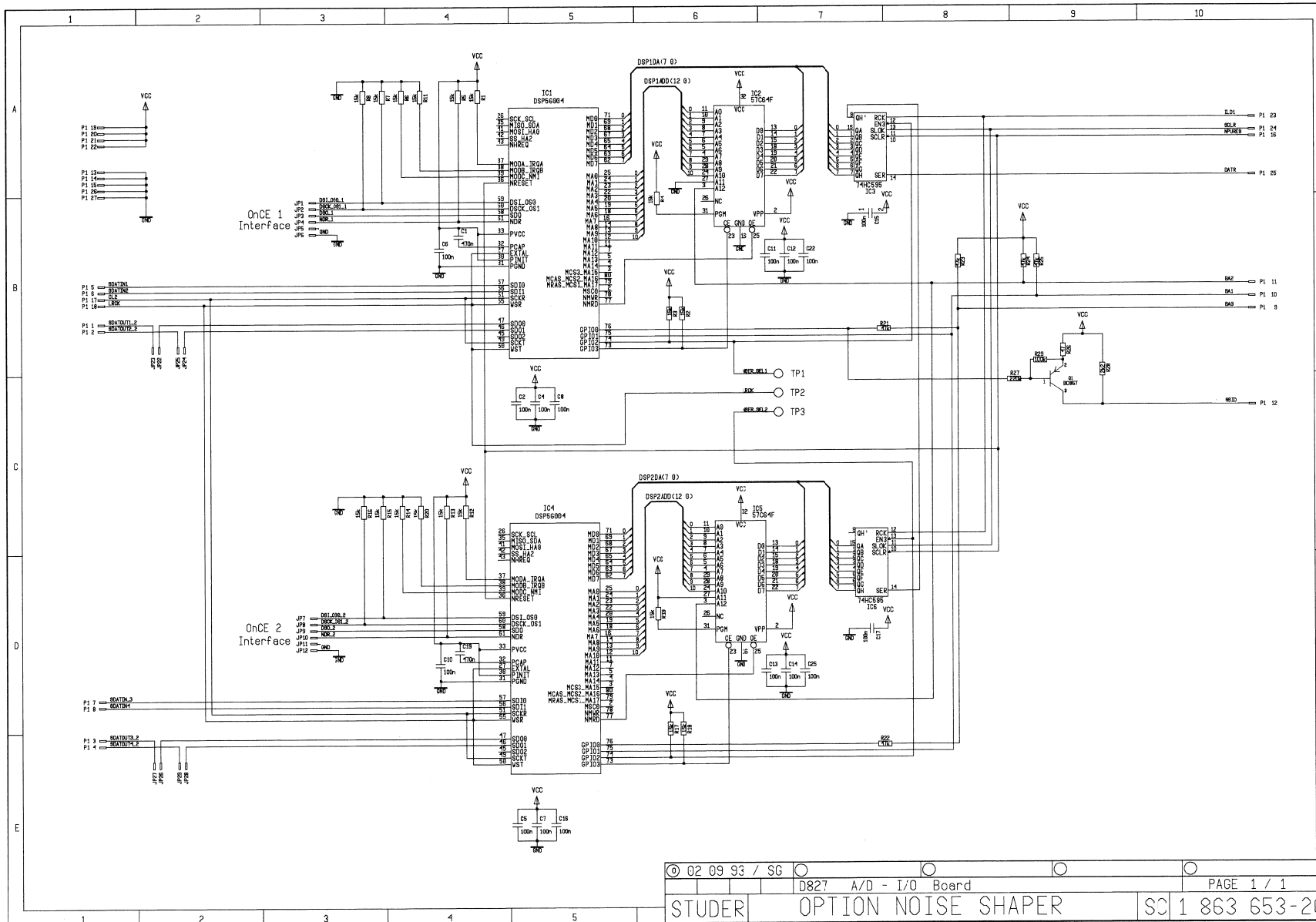
| Ad        | POS          | REF.No     | DESCRIPTION                               | MANUFACTURER |
|-----------|--------------|------------|---|--------------|
| IC....22  | 50.18.0102   | EPM5032-20 | DIP28-3, PLD (SM 1.863.900.20)            |              |
| IC....23  | 50.18.0102   | EPM5032-20 | DIP28-3, PLD (SM 1.863.901.20)            |              |
| IC....24  | 50.18.0104   | EP5010C-25 | DIP28-3, PLD (SM 1.863.902.20)            |              |
| IC....25  | 50.14.0127   | CY7C122-35 | DIP22-4, RAM 256 * 4 3SNS                 |              |
| IC....27  | 50.50.0010   | PORTMASTER | DIP28, KUNDEN-1C                          |              |
| IC....28  | 50.50.0010   | PORTMASTER | DIP28, KUNDEN-1C                          |              |
| IC....29  | 50.18.0100   | PLD16V8    | DIP20, PLD (SM 1.863.903.20)              |              |
| IC....32  | 50.17.1595   | 74HC595    | DIP16, 8 BIT SHIFT/OUT. REGISTER          |              |
| IC....33  | 50.17.1165   | 74HC165    | DIP16, 8BIT SI/PO SHIFT REGISTER          |              |
| IC....34  | 50.17.0244   | 74HC244    | DIP20, OCTAL BUFFER L-ORVR L-REC          |              |
| IC....36  | 50.17.1595   | 74HC595    | DIP16, 8 BIT SHIFT/OUT. REGISTER          |              |
| IC....37  | 50.17.1595   | 74HC595    | DIP16, 8 BIT SHIFT/OUT. REGISTER          |              |
| IC....38  | 50.15.0109   | 26LS33     | DIP16, QUAD DIFF. LINE RECEIVER           |              |
| L....2    | 62.03.0040   | 100uH      | 5A, TOROIDAL CHOKE                        |              |
| MP....1   | 1.863.650.11 |            | EMPTY PCB                                 |              |
| MP....2   | 1.863.651.01 |            | Etikette: Baugruppennummer                |              |
| MP....3   | 43.01.0108   |            | Etikette: ESE                             |              |
| MP....4   | 1.101.001.20 |            | Etikette: Hardware -20                    |              |
| MP....5   | 1.010.130.51 |            | Etikette: T7.00A                          |              |
| MP....8   | 23.99.0119   |            | RIVETING NUT                              |              |
| MP....9   | 23.99.0119   |            | RIVETING NUT                              |              |
| MP....10  | 23.99.0119   |            | RIVETING NUT                              |              |
| MP....11  | 23.99.0119   |            | RIVETING NUT                              |              |
| MP....12  | 1.862.650.05 |            | AUSWERFERHEBEL                            |              |
| MP....13  | 1.862.650.05 |            | AUSWERFERHEBEL                            |              |
| MP....14  | 1.862.650.06 |            | AUSWERFERSTIFT                            |              |
| MP....15  | 1.862.650.06 |            | AUSWERFERSTIFT                            |              |
| MP....16  | 1.863.651.02 |            | Etiketten zu Auswerferhebel               |              |
| P....1    | 54.01.0358   | 96-P       | ANG., MALE, P-EU-C 3*32P                  |              |
| P....2    | 54.01.0358   | 96-P       | ANG., MALE, P-EU-C 3*32P                  |              |
| P....11   | 54.02.0320   | 1-P        | STR., MALE, FLATPIN 2.8*0.8               |              |
| P....12   | 54.02.0320   | 1-P        | STR., MALE, FLATPIN 2.8*0.8               |              |
| P....13   | 54.02.0320   | 1-P        | STR., MALE, FLATPIN 2.8*0.8               |              |
| P....14   | 54.02.0320   | 1-P        | STR., MALE, FLATPIN 2.8*0.8               |              |
| P....15   | 54.02.0320   | 1-P        | STR., MALE, FLATPIN 2.8*0.8               |              |
| P....16   | 54.02.0320   | 1-P        | STR., MALE, FLATPIN 2.8*0.8               |              |
| P....18   | 54.02.0320   | 1-P        | STR., MALE, FLATPIN 2.8*0.8               |              |
| P....20   | 54.02.0320   | 1-P        | STR., MALE, FLATPIN 2.8*0.8               |              |
| R....1    | 57.11.3102   | 1k         | 1 %, 0.6W, MF                             |              |
| R....2    | 57.11.3102   | 1k         | 1 %, 0.6W, MF                             |              |
| R....5    | 57.11.3103   | 10k        | 1 %, 0.6W, MF                             |              |
| R....6    | 57.11.3103   | 10k        | 1 %, 0.6W, MF                             |              |
| R....8    | 57.11.3102   | 1k         | 1 %, 0.6W, MF                             |              |
| R....9    | 57.11.3102   | 1k         | 1 %, 0.6W, MF                             |              |
| R....10   | 57.11.3103   | 10k        | 1 %, 0.6W, MF                             |              |
| R....11   | 57.11.3103   | 10k        | 1 %, 0.6W, MF                             |              |
| R....14   | 57.11.3102   | 1k         | 1 %, 0.6W, MF                             |              |
| R....15   | 57.11.3221   | 220e       | 1 %, 0.6W, MF                             |              |
| R....16   | 57.11.3221   | 220e       | 1 %, 0.6W, MF                             |              |
| R....20   | 57.11.3220   | 22E        | 1 %, 0.6W, MF                             |              |
| R....21   | 57.11.3220   | 22E        | 1 %, 0.6W, MF                             |              |
| R....22   | 57.11.3102   | 1k         | 1 %, 0.6W, MF                             |              |
| R....23   | 57.11.3220   | 22E        | 1 %, 0.6W, MF                             |              |
| R....24   | 57.11.3220   | 22E        | 1 %, 0.6W, MF                             |              |
| R....25   | 57.11.3102   | 1k         | 1 %, 0.6W, MF                             |              |
| R....28   | 57.11.3000   | 0E         | 1 %, MF 0-0WH RES                         |              |
| R....29   | 57.11.3000   | 0E         | 1 %, MF 0-0WH RES                         |              |
| R....32   | 57.11.3220   | 22E        | 1 %, 0.6W, MF                             |              |
| R....33   | 57.11.3220   | 22E        | 1 %, 0.6W, MF                             |              |
| R....36   | 57.11.3220   | 22E        | 1 %, 0.6W, MF                             |              |
| R....37   | 57.11.3000   | 0E         | 1 %, MF 0-0WH RES                         |              |
| R....39   | 57.11.3102   | 1k         | 1 %, 0.6W, MF                             |              |
| R....41   | 57.11.3220   | 22E        | 1 %, 0.6W, MF                             |              |
| R....43   | 57.11.3752   | 7k5        | 1 %, 0.6W, MF                             |              |
| R....44   | 57.11.3102   | 1k         | 1 %, 0.6W, MF                             |              |
| R....45   | 57.11.3102   | 1k         | 1 %, 0.6W, MF                             |              |
| R....46   | 57.11.3102   | 1k         | 1 %, 0.6W, MF                             |              |
| R....47   | 57.11.3102   | 1k         | 1 %, 0.6W, MF                             |              |
| R....48   | 57.11.3102   | 1k         | 1 %, 0.6W, MF                             |              |
| XIC....1  | 53.03.0173   | DIL28-6    |   |              |
| XIC....7  | 53.03.0165   | DIL20      |   |              |
| XIC....10 | 53.03.0165   | DIL20      |   |              |
| XIC....17 | 53.03.0165   | DIL20      |   |              |
| XIC....18 | 53.03.0165   | DIL20      |   |              |
| XIC....22 | 53.03.0167   | DIL14      | zusammen mit XIC 72 als DIL28-3 verwenden |              |
| XIC....23 | 53.03.0167   | DIL14      | zusammen mit XIC 73 als DIL28-3 verwenden |              |
| XIC....24 | 53.03.0182   | DIL24      |   |              |
| XIC....29 | 53.03.0165   | DIL20      |   |              |
| XIC....72 | 53.03.0167   | DIL14      | siehe XIC 22 ...                          |              |
| XIC....73 | 53.03.0167   | DIL14      | siehe XIC 23 ...                          |              |

I / O BOARD 1.863.651.20 ES ELA93/09/2300

STUDER D827 MCH

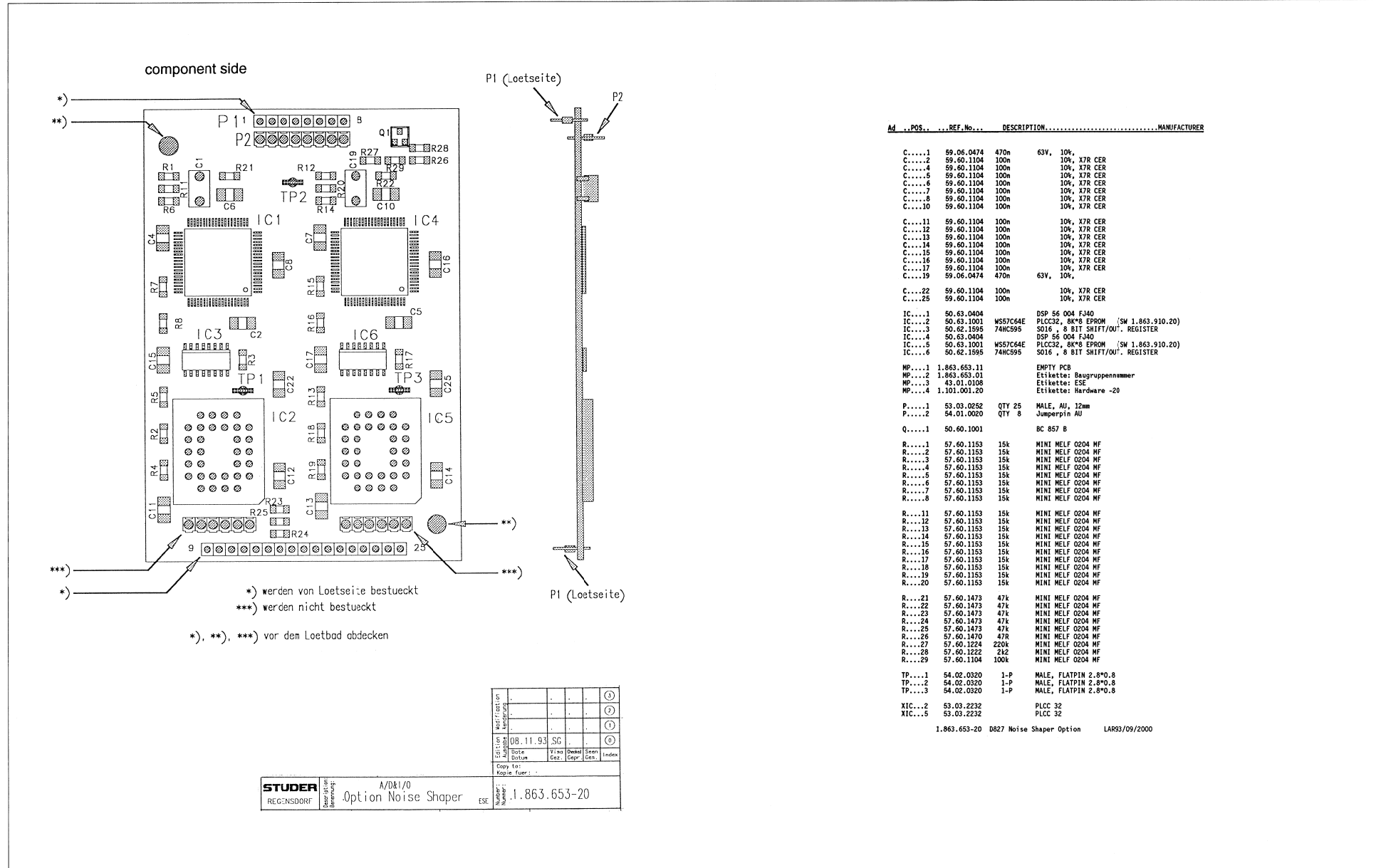


NOISE SHAPER 1.863.653.20 (OPTION)





NOISE SHAPER 1.863.653.20 (OPTION)



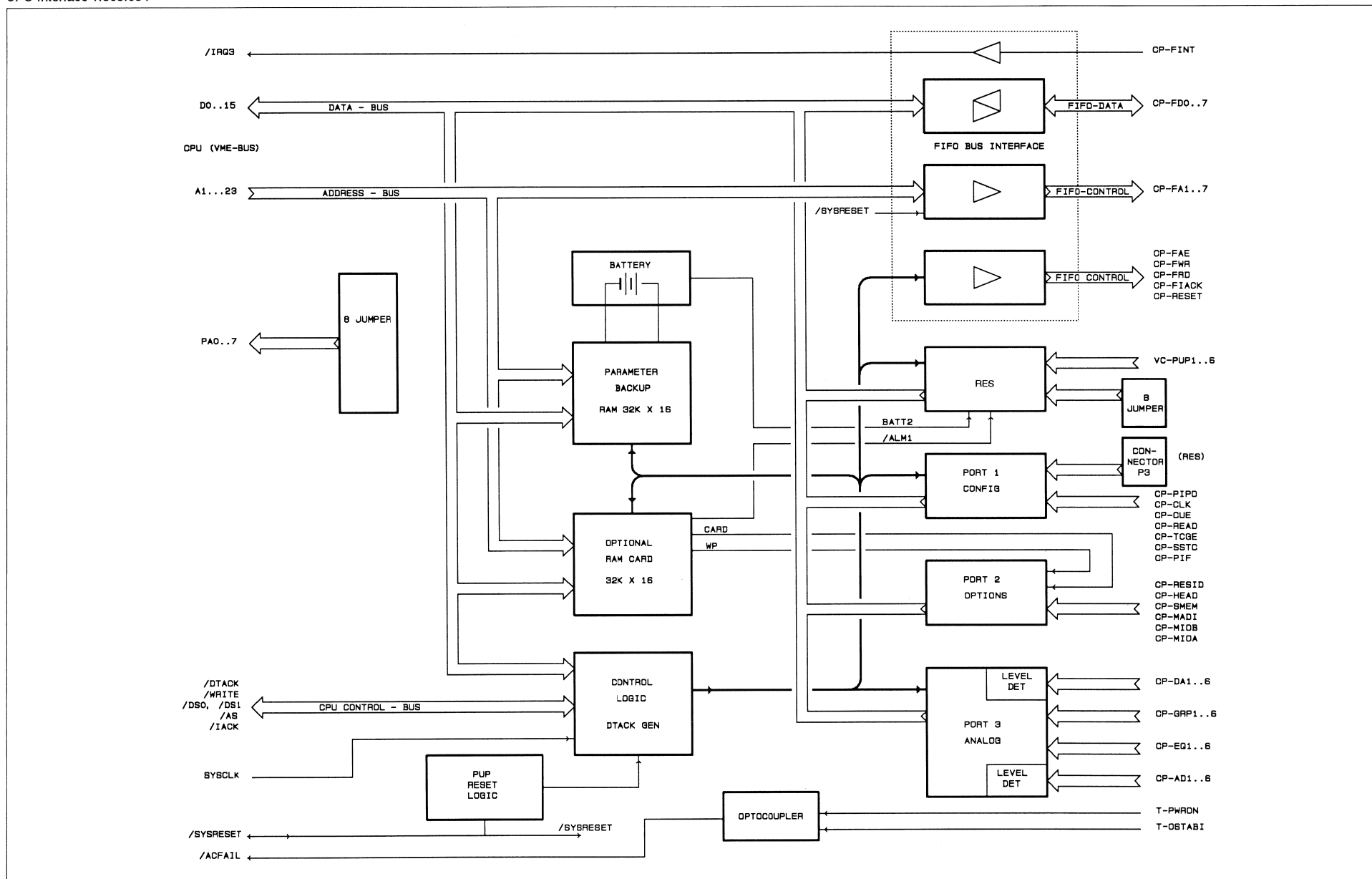
| Ad      | POS.         | REF.No.  | DESCRIPTION                          | MANUFACTURER |
|---------|--------------|----------|--------------------------------------|--------------|
| C....1  | 59.06.0474   | 470n     | 63V, 10%                             |              |
| C....2  | 59.60.1104   | 100n     | 10%, X7R CER                         |              |
| C....4  | 59.60.1104   | 100n     | 10%, X7R CER                         |              |
| C....5  | 59.60.1104   | 100n     | 10%, X7R CER                         |              |
| C....6  | 59.60.1104   | 100n     | 10%, X7R CER                         |              |
| C....7  | 59.60.1104   | 100n     | 10%, X7R CER                         |              |
| C....8  | 59.60.1104   | 100n     | 10%, X7R CER                         |              |
| C....10 | 59.60.1104   | 100n     | 10%, X7R CER                         |              |
| C....11 | 59.60.1104   | 100n     | 10%, X7R CER                         |              |
| C....12 | 59.60.1104   | 100n     | 10%, X7R CER                         |              |
| C....13 | 59.60.1104   | 100n     | 10%, X7R CER                         |              |
| C....14 | 59.60.1104   | 100n     | 10%, X7R CER                         |              |
| C....15 | 59.60.1104   | 100n     | 10%, X7R CER                         |              |
| C....16 | 59.60.1104   | 100n     | 10%, X7R CER                         |              |
| C....17 | 59.60.1104   | 100n     | 10%, X7R CER                         |              |
| C....19 | 59.06.0474   | 470n     | 63V, 10%                             |              |
| C....22 | 59.60.1104   | 100n     | 10%, X7R CER                         |              |
| C....25 | 59.60.1104   | 100n     | 10%, X7R CER                         |              |
| IC...1  | 50.63.0404   |          | DSP 56 004 FJ40                      |              |
| IC...2  | 50.63.1001   | WS57C64E | PLCC32, 8K*8 EPROM 'SM 1.863.910.20) |              |
| IC...3  | 50.62.1595   | 74HC595  | S016 - 8 BIT SHIFT/OUT. REGISTER     |              |
| IC...4  | 50.63.0404   |          | DSP 56 004 FJ40                      |              |
| IC...5  | 50.63.1001   | WS57C64E | PLCC32, 8K*8 EPROM 'SM 1.863.910.20) |              |
| IC...6  | 50.62.1595   | 74HC595  | S016 - 8 BIT SHIFT/OUT. REGISTER     |              |
| MP...1  | 1.863.653.11 |          | EMPTY PCB                            |              |
| MP...2  | 1.863.653.01 |          | Etikette: Baugruppennummer           |              |
| MP...3  | 43.01.0108   |          | Etikette: ESE                        |              |
| MP...4  | 1.101.001.20 |          | Etikette: Hardware -20               |              |
| P....1  | 53.03.0252   | QTY 25   | MALE, AU, 12mm                       |              |
| P....2  | 54.01.0020   | QTY 8    | Jumperpin AU                         |              |
| Q....1  | 50.60.1001   |          | BC 857 B                             |              |
| R....1  | 57.60.1153   | 15k      | MINI MELF 0204 MF                    |              |
| R....2  | 57.60.1153   | 15k      | MINI MELF 0204 MF                    |              |
| R....3  | 57.60.1153   | 15k      | MINI MELF 0204 MF                    |              |
| R....4  | 57.60.1153   | 15k      | MINI MELF 0204 MF                    |              |
| R....5  | 57.60.1153   | 15k      | MINI MELF 0204 MF                    |              |
| R....6  | 57.60.1153   | 15k      | MINI MELF 0204 MF                    |              |
| R....7  | 57.60.1153   | 15k      | MINI MELF 0204 MF                    |              |
| R....8  | 57.60.1153   | 15k      | MINI MELF 0204 MF                    |              |
| R....11 | 57.60.1153   | 15k      | MINI MELF 0204 MF                    |              |
| R....12 | 57.60.1153   | 15k      | MINI MELF 0204 MF                    |              |
| R....13 | 57.60.1153   | 15k      | MINI MELF 0204 MF                    |              |
| R....14 | 57.60.1153   | 15k      | MINI MELF 0204 MF                    |              |
| R....15 | 57.60.1153   | 15k      | MINI MELF 0204 MF                    |              |
| R....16 | 57.60.1153   | 15k      | MINI MELF 0204 MF                    |              |
| R....17 | 57.60.1153   | 15k      | MINI MELF 0204 MF                    |              |
| R....18 | 57.60.1153   | 15k      | MINI MELF 0204 MF                    |              |
| R....19 | 57.60.1153   | 15k      | MINI MELF 0204 MF                    |              |
| R....20 | 57.60.1153   | 15k      | MINI MELF 0204 MF                    |              |
| R....21 | 57.60.1473   | 47k      | MINI MELF 0204 MF                    |              |
| R....22 | 57.60.1473   | 47k      | MINI MELF 0204 MF                    |              |
| R....23 | 57.60.1473   | 47k      | MINI MELF 0204 MF                    |              |
| R....24 | 57.60.1473   | 47k      | MINI MELF 0204 MF                    |              |
| R....25 | 57.60.1473   | 47k      | MINI MELF 0204 MF                    |              |
| R....26 | 57.60.1470   | 47k      | MINI MELF 0204 MF                    |              |
| R....27 | 57.60.1224   | 220k     | MINI MELF 0204 MF                    |              |
| R....28 | 57.60.1222   | 2k2      | MINI MELF 0204 MF                    |              |
| R....29 | 57.60.1104   | 100k     | MINI MELF 0204 MF                    |              |
| TP...1  | 54.02.0320   | 1-P      | MALE, FLATPIN 2.8*0.8                |              |
| TP...2  | 54.02.0320   | 1-P      | MALE, FLATPIN 2.8*0.8                |              |
| TP...3  | 54.02.0320   | 1-P      | MALE, FLATPIN 2.8*0.8                |              |
| XIC...2 | 53.03.2232   |          | PLCC 32                              |              |
| XIC...5 | 53.03.2232   |          | PLCC 32                              |              |

1.863.653-20 D827 Noise Shaper Option LAR93/09/2000

| Einheit  | Maßstab | Blatt | Blatt | Blatt | Blatt | Blatt | Blatt | Blatt | Blatt |
|----------|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| 08.11.93 | SG      |       |       |       |       |       |       |       |       |
| Top      | Bottom  | Rev.  | Drawn | Check | Spec. | Cons. | Index |       |       |

STUDER REG: NSDORF A/D&I/O Option Noise Shaper ESF  
 .1.863.653-20

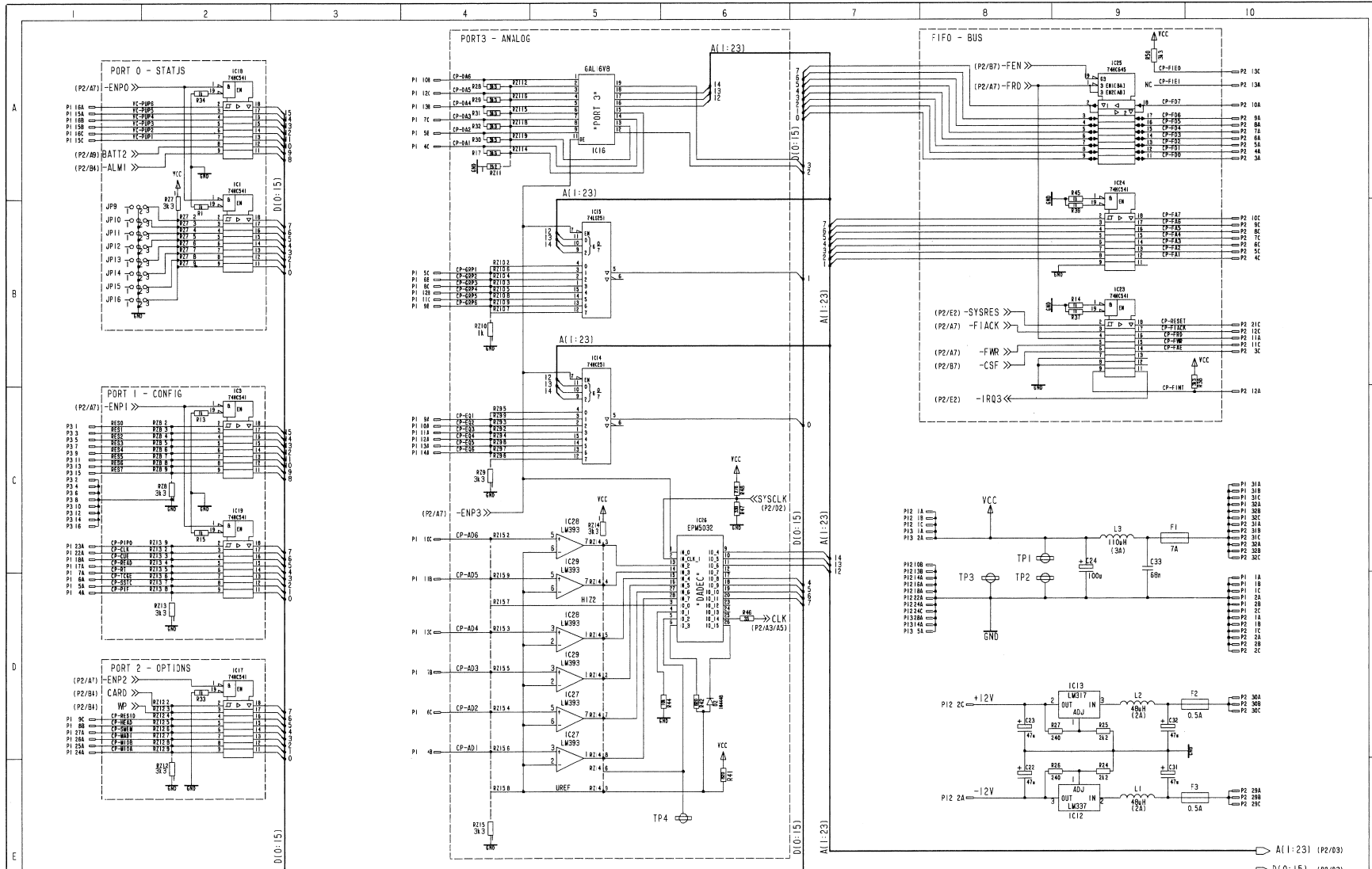
**BLOCK DIAGRAM**  
CPU Interface 1.863.654



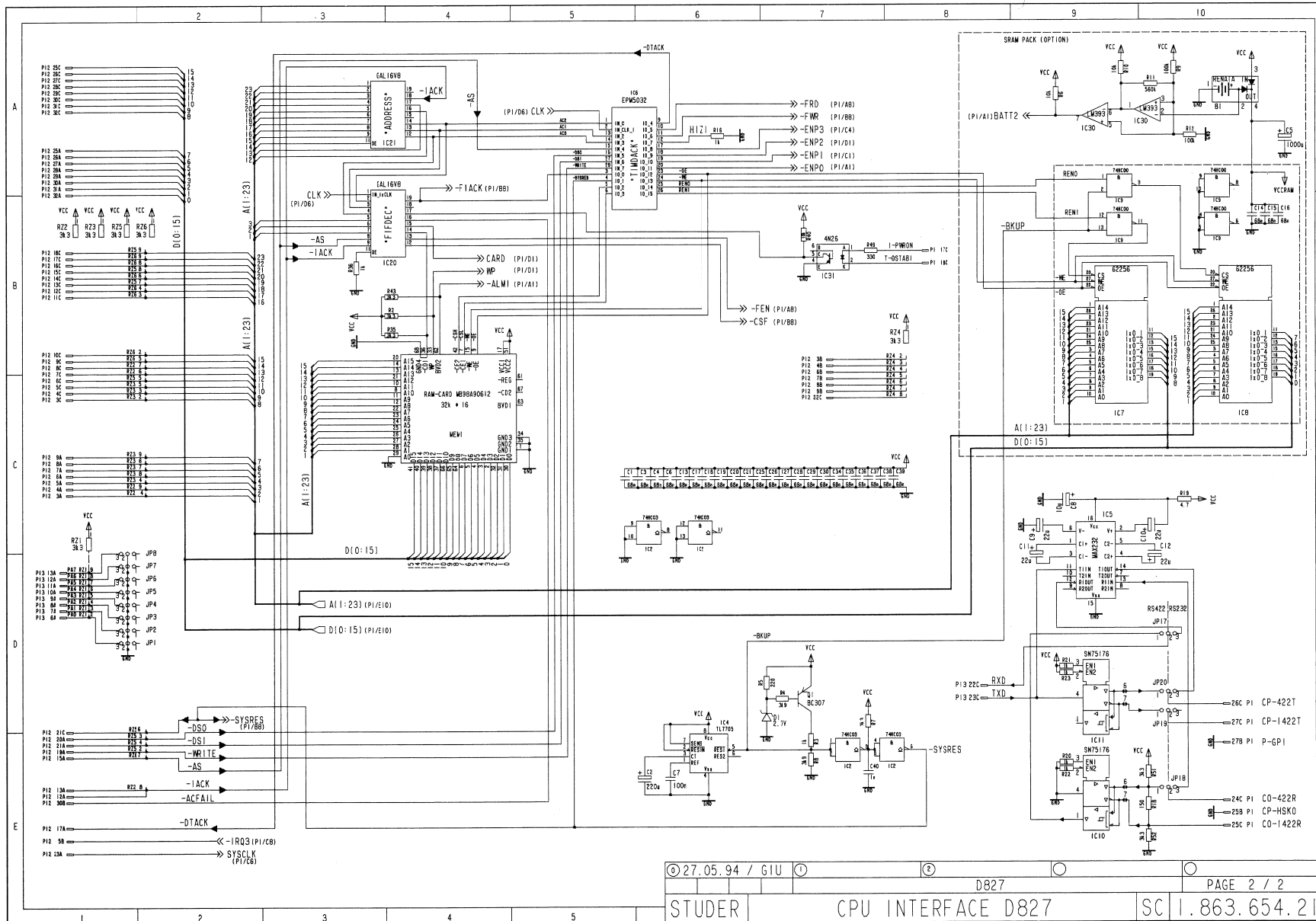
STUDER D827 MCH



CPU INTERFACE 1.863.654.21

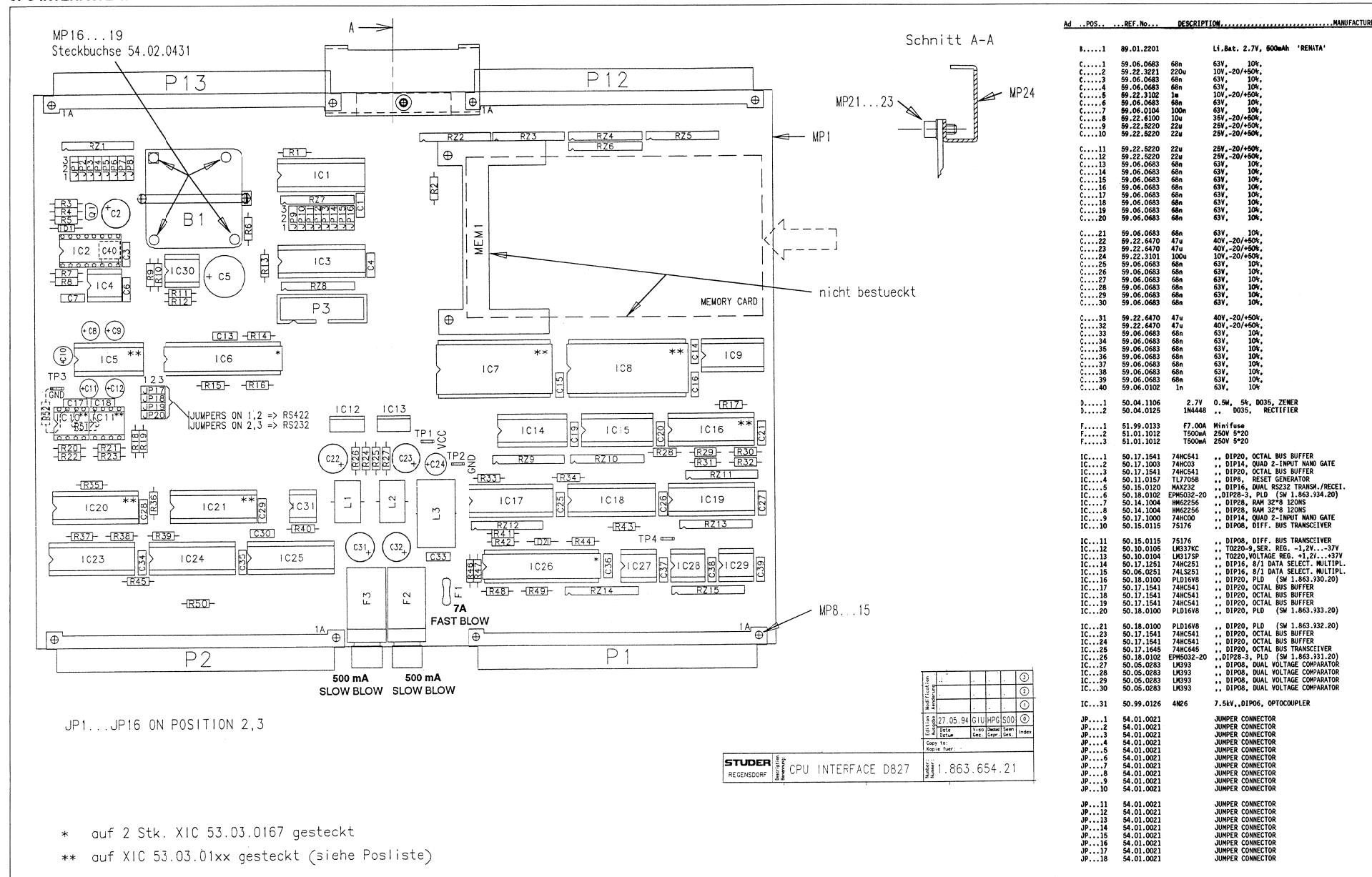


CPU INTERFACE 1.863.654.21





CPU INTERFACE 1.863.654.21



\* auf 2 Stk. XIC 53.03.0167 gesteckt  
 \*\* auf XIC 53.03.01xx gesteckt (siehe Posliste)

STUDER  
 REGENSDORF  
 CPU INTERFACE D827  
 1.863.654.21

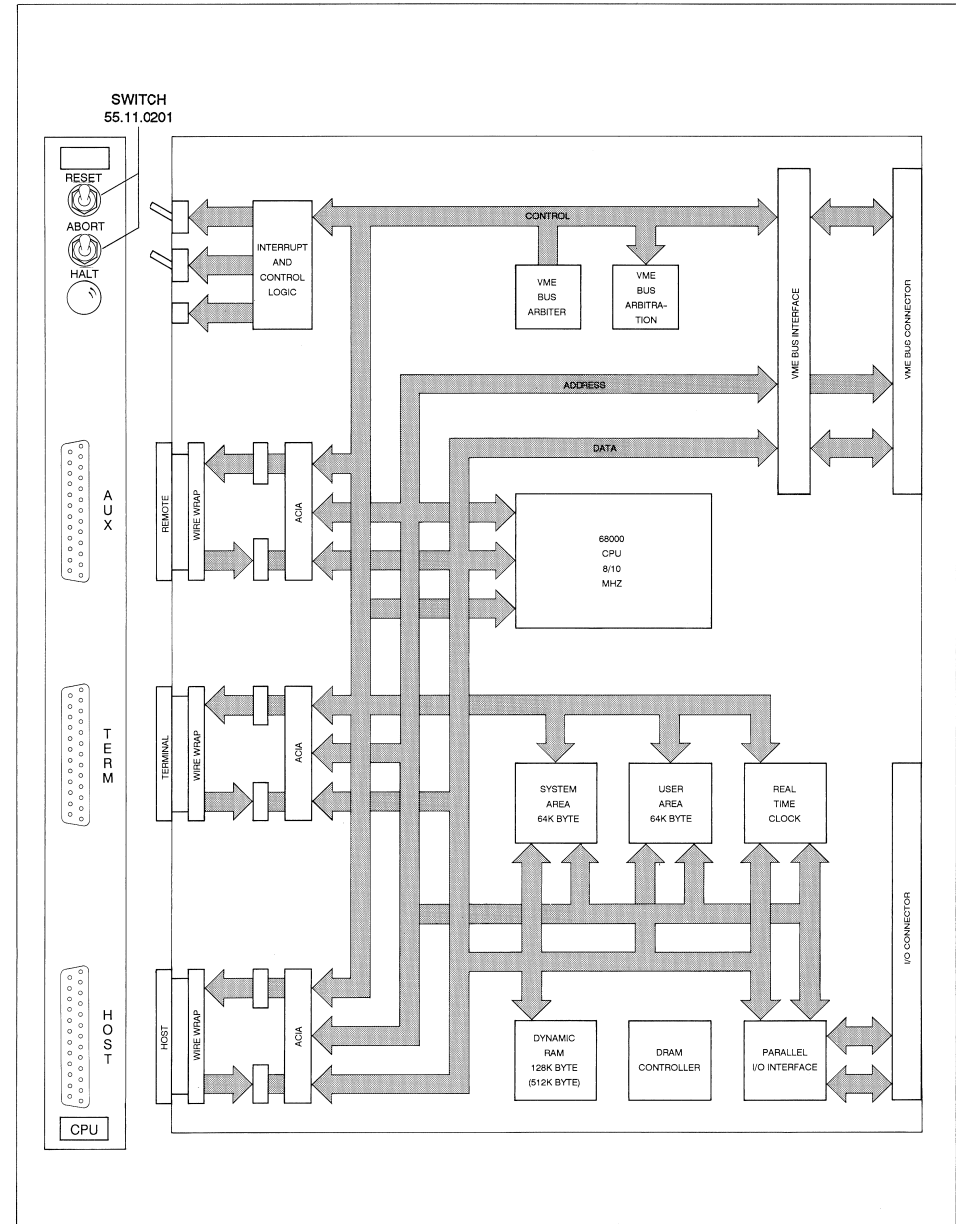
STUDER D827 MCH

CPU INTERFACE 1.863.654.21

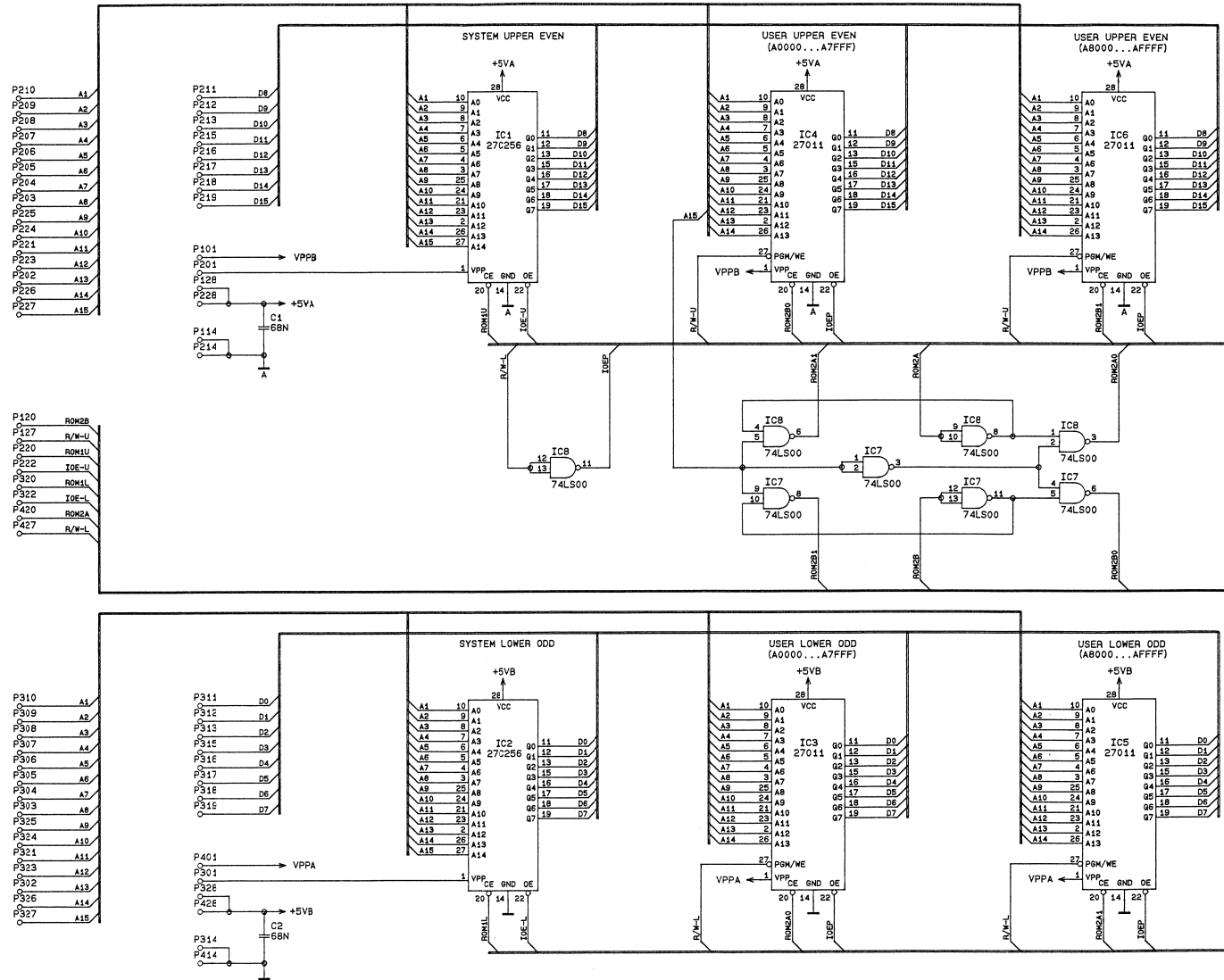
Table with 4 main columns: Ad., POS., REF. No., DESCRIPTION, MANUFACTURER. It lists various components like JUMPER CONNECTOR, SWITCH, and various cables and connectors with their respective quantities and specifications.



BLOCK DIAGRAM CPU 1.863.655



CPU PIGGY-BACK 1.862.683.21



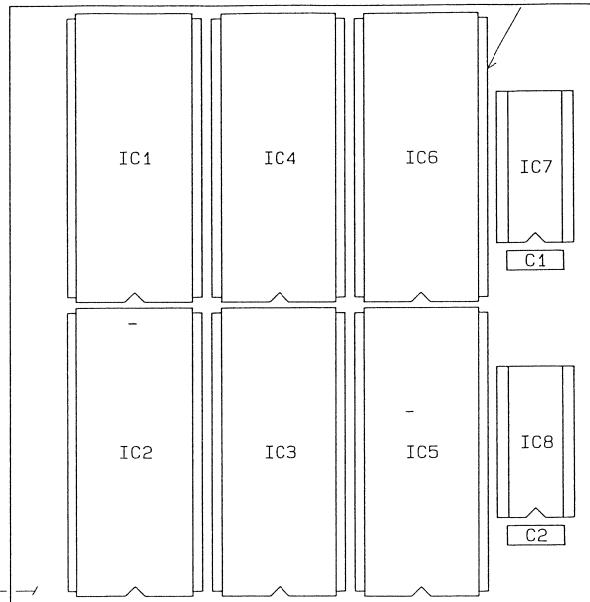
P101... USER UPPER J78  
 P201... SYSTEM UPPER J76  
 P301... SYSTEM LOWER J75  
 P401... USER LOWER J77



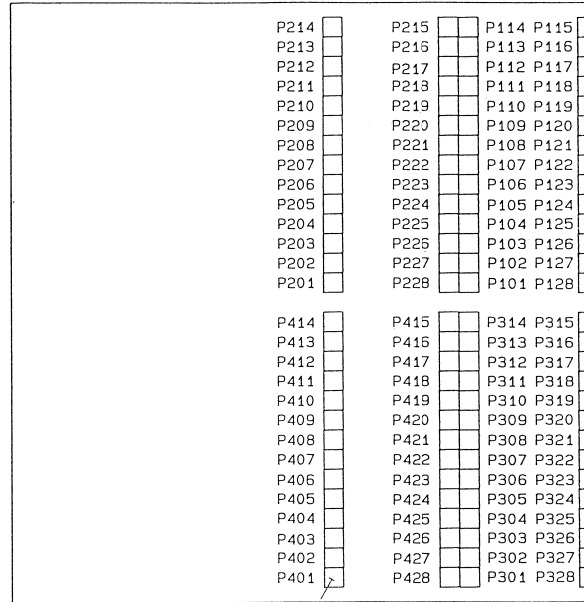
CPU PIGGY-BACK 1.862.683.21

Component Side

XIC 1...6

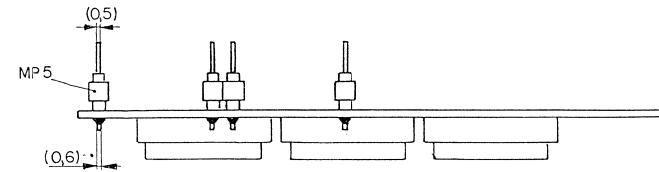


Solder Side



| Ad      | ..POS.       | ...REF.No. | DESCRIPTION                      | MANUFACTURER |
|---------|--------------|------------|----------------------------------|--------------|
| C.....1 | 59.06.0683   | 68n        | 10 %, 63V                        | 1G           |
| C.....2 | 59.06.0683   | 68n        | 10 %, 63V                        | 1G           |
| IC....1 | 50.14.2004   | 27C256     | 32K * 8, 250NS (SW 1.862.924.20) |              |
| IC....2 | 50.14.2004   | 27C256     | 32K * 8, 250NS (SW 1.862.925.20) |              |
| IC....3 | 50.14.2006   | 27011      | 16K * 8, 200NS (SW 1.863.926.21) |              |
| IC....4 | 50.14.2006   | 27011      | 16K * 8, 200NS (SW 1.863.926.21) |              |
| IC....5 | 50.14.2006   | 27011      | 16K * 8, 200NS (SW 1.863.926.21) |              |
| IC....6 | 50.14.2006   | 27011      | 16K * 8, 200NS (SW 1.863.926.21) |              |
| IC....7 | 50.06.0000   | 74LS00     | DIP14, QUAD 2-INPUT NAND GATE    | 1G           |
| IC....8 | 50.06.0000   | 74LS00     | DIP14, QUAD 2-INPUT NAND GATE    | 1G           |
| MP....1 | 1.862.683.11 |            | Empty PCB                        |              |
| MP....2 | 1.862.683.01 |            | NR.-ETIKETTE 5 * 20              |              |
| MP....3 | 1.191.001.20 |            | TEST-ETIK. 5*20 HARDWARE -20     |              |
| MP....4 | 43.01.0108   |            | ESE-WARNSCHILD                   |              |
| MP....5 | 53.03.0282   | 112 pcs    | 1-P STR., MALE, SINGLE PIN       | P see MP5    |
| XIC...1 | 53.03.0173   |            | D1L28 SOCKET FOR IC1             | 1B           |
| XIC...2 | 53.03.0173   |            | D1L28 SOCKET FOR IC2             | 1B           |
| XIC...3 | 53.03.0173   |            | D1L28 SOCKET FOR IC3             | 1D           |
| XIC...4 | 53.03.0173   |            | D1L28 SOCKET FOR IC4             | 1D           |
| XIC...5 | 53.03.0173   |            | D1L28 SOCKET FOR IC5             | 1E           |
| XIC...6 | 53.03.0173   |            | D1L28 SOCKET FOR IC6             | 1E           |

1.862.683-21 CPU PIGGY-BACK D827 MCH ML 94/10/2800



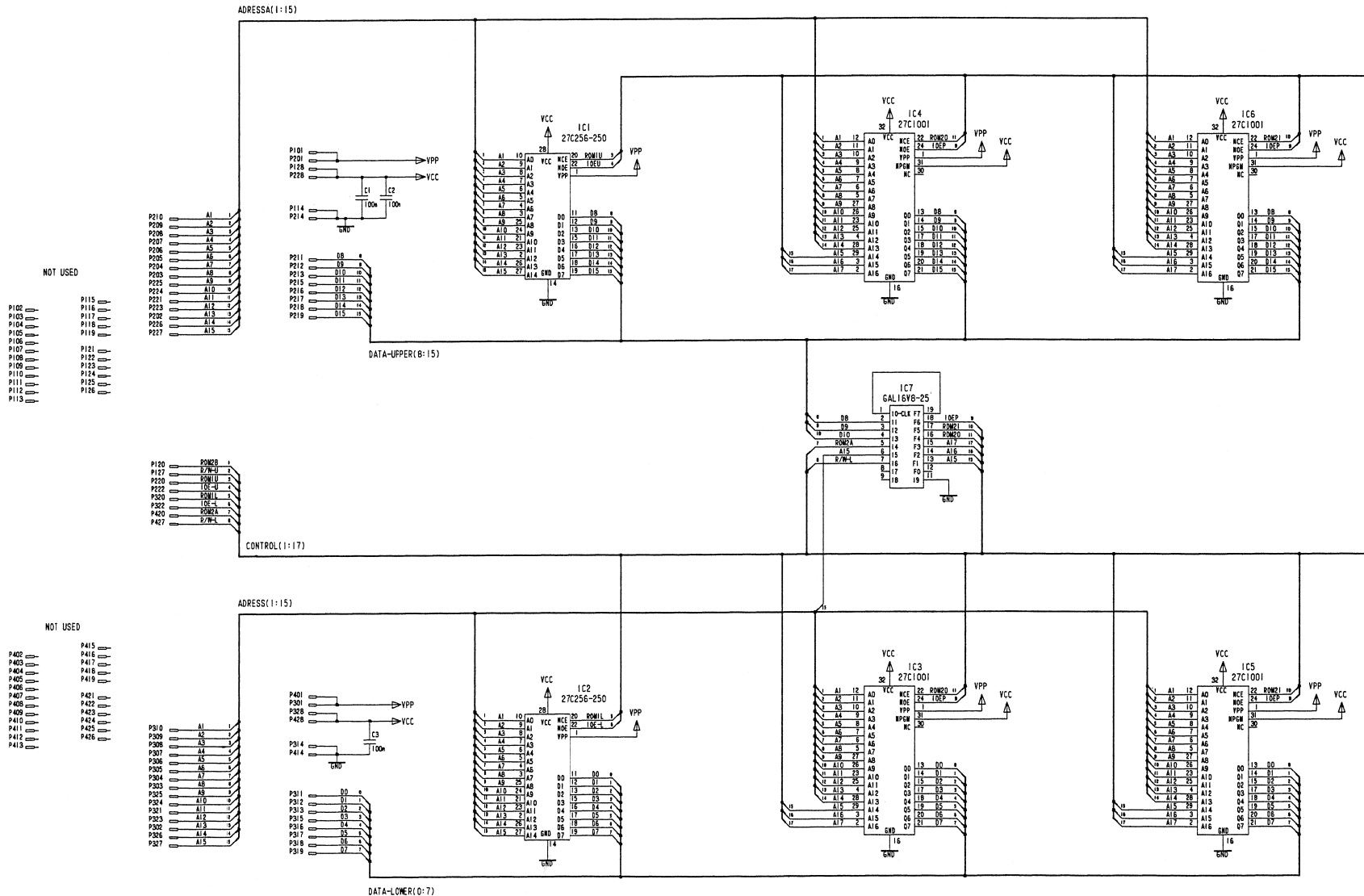
|               |                |      |       |              |
|---------------|----------------|------|-------|--------------|
| ○             |                |      |       |              |
| ○             |                |      |       |              |
| ○             |                |      |       |              |
| ○             | 12.10.93       | PG   |       |              |
| IND.          | DATUM          | SEZ. | REPR. | RES.         |
| BLATT 1 VON 1 |                |      |       |              |
| STUDER        | CPU PIGGY-BACK | ESE  |       | 1.862.683.21 |



STUDER D827 MCH



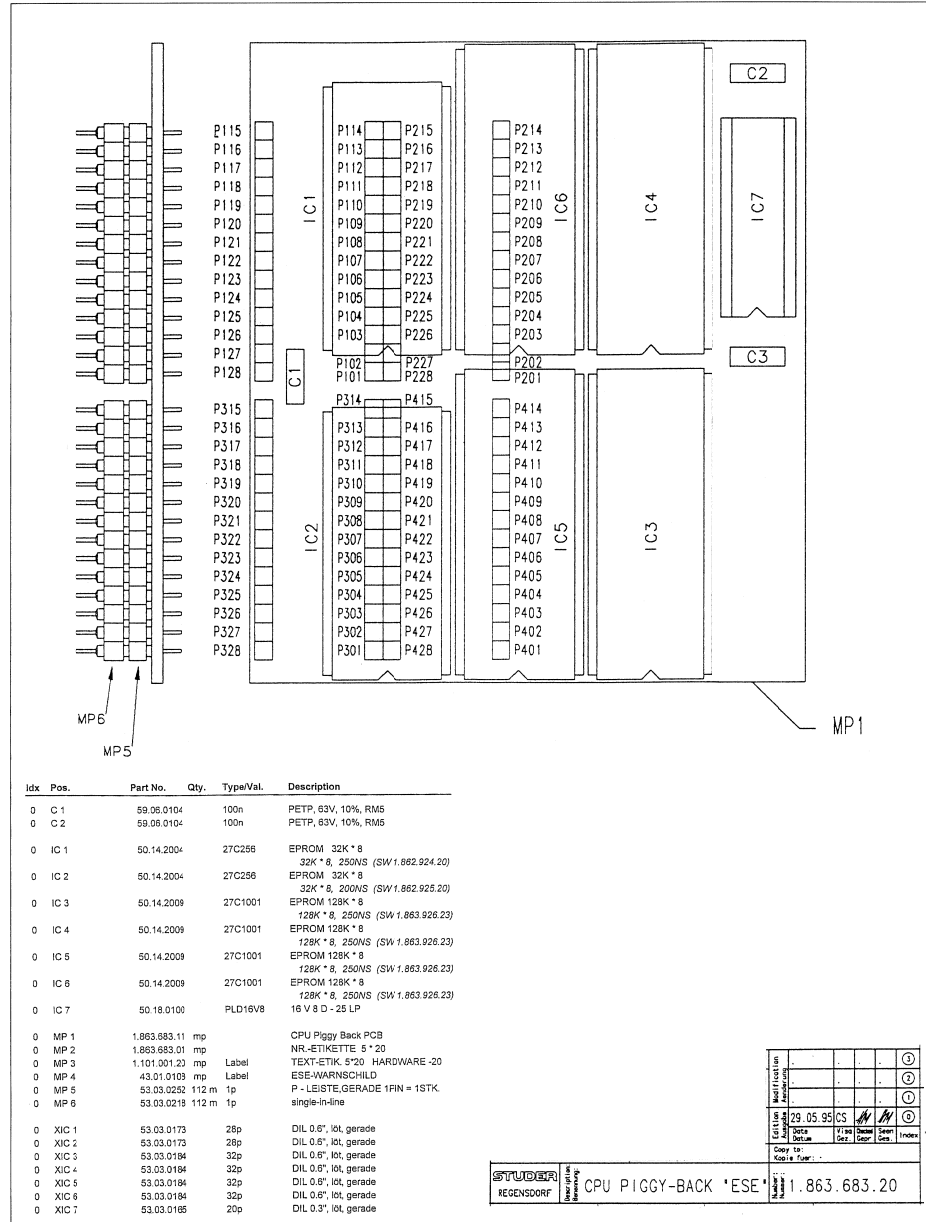
CPU PIGGY-BACK 1.863.683.20



- NOT USED
- P100
  - P103
  - P104
  - P105
  - P106
  - P107
  - P108
  - P109
  - P110
  - P111
  - P112
  - P113
  - P115
  - P116
  - P117
  - P118
  - P119

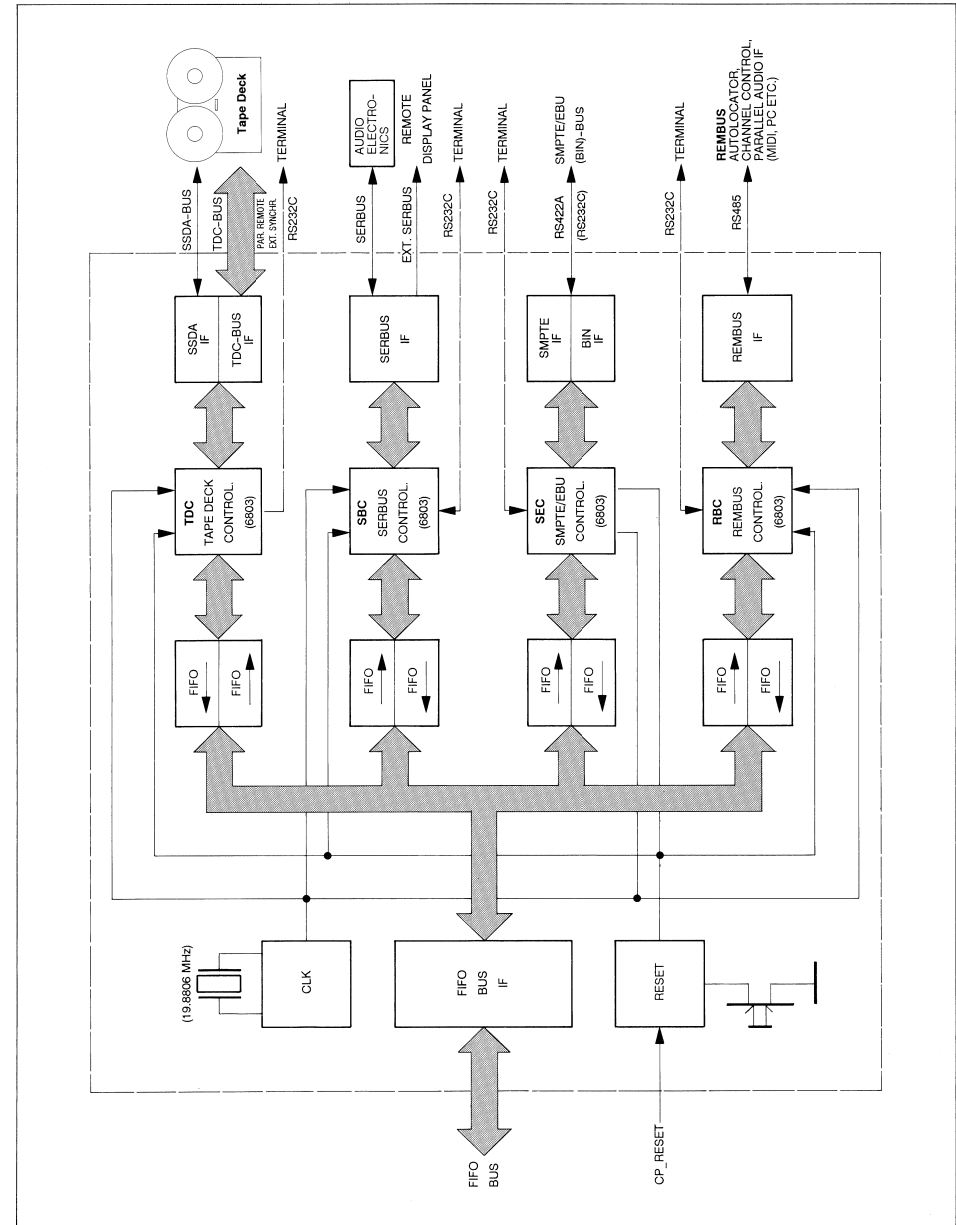
- NOT USED
- P405
  - P406
  - P407
  - P408
  - P409
  - P410
  - P411
  - P412
  - P413
  - P415
  - P416
  - P417
  - P418
  - P419
  - P421
  - P422
  - P423
  - P424
  - P425
  - P426

CPU PIGGY-BACK 1.863.683.20

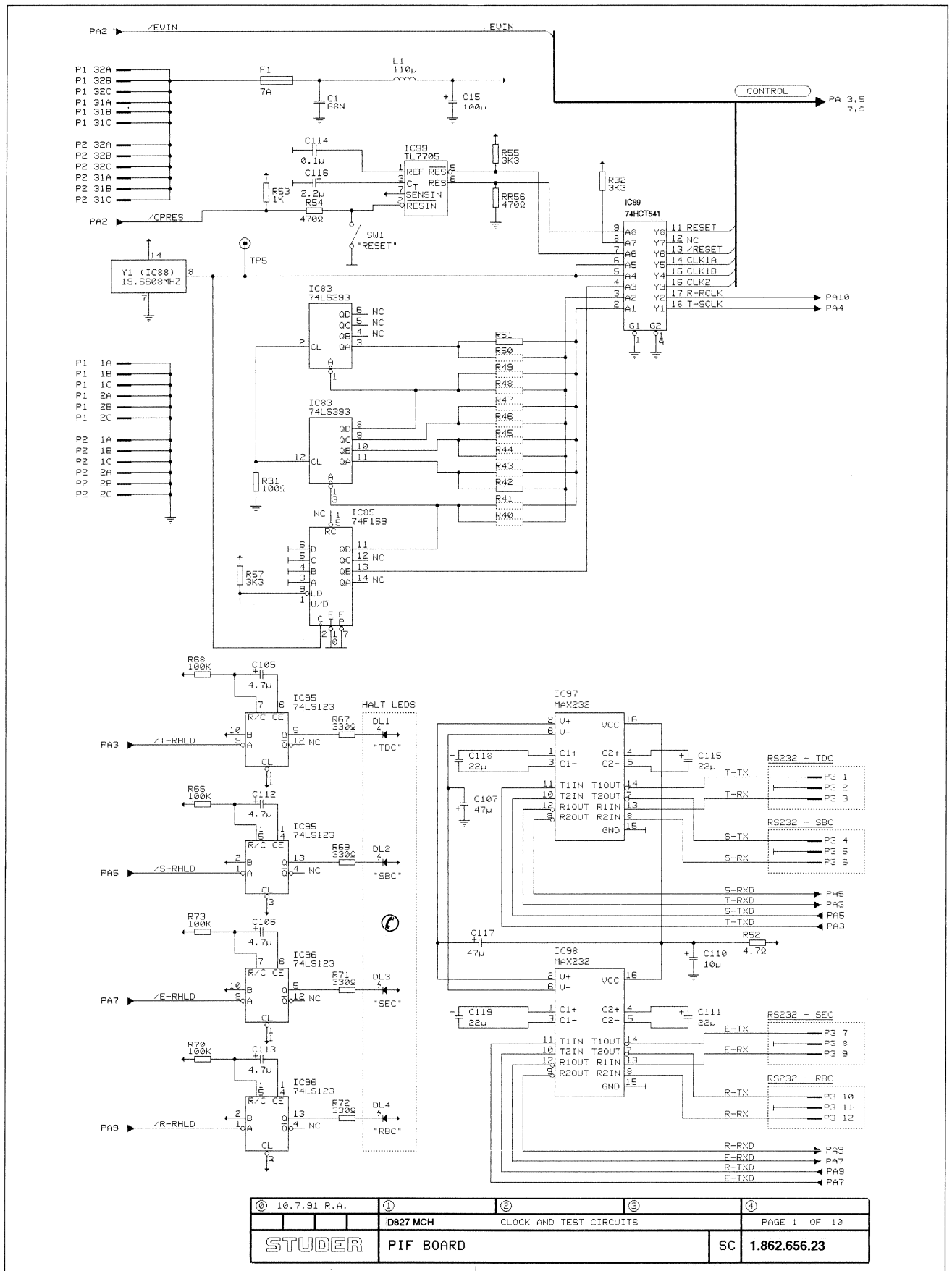


STUDER REGENSDORF **CPU PIGGY-BACK 'ESE'** 1.863.683.20

BLOCK DIAGRAM  
Peripheral Interface 1.863.656

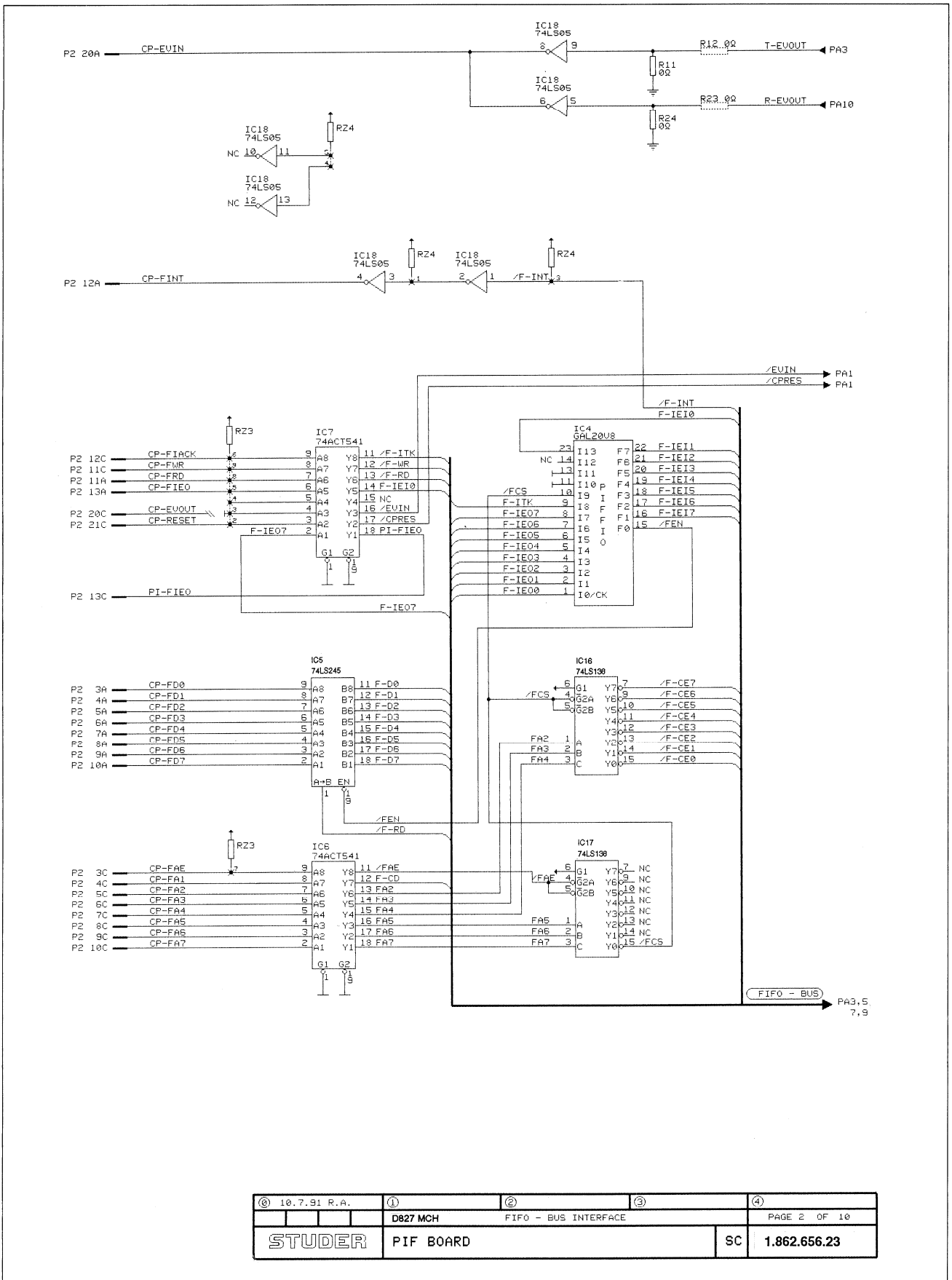


PERIPHERAL INTERFACE 1.863.656.23  
-Clock and Test Circuits



|                  |            |                           |                |
|------------------|------------|---------------------------|----------------|
| © 10.7.91 R.A.   | ① D827 MCH | ② CLOCK AND TEST CIRCUITS | ③ PAGE 1 OF 10 |
| STUDER PIF BOARD |            | SC                        | 1.862.656.23   |

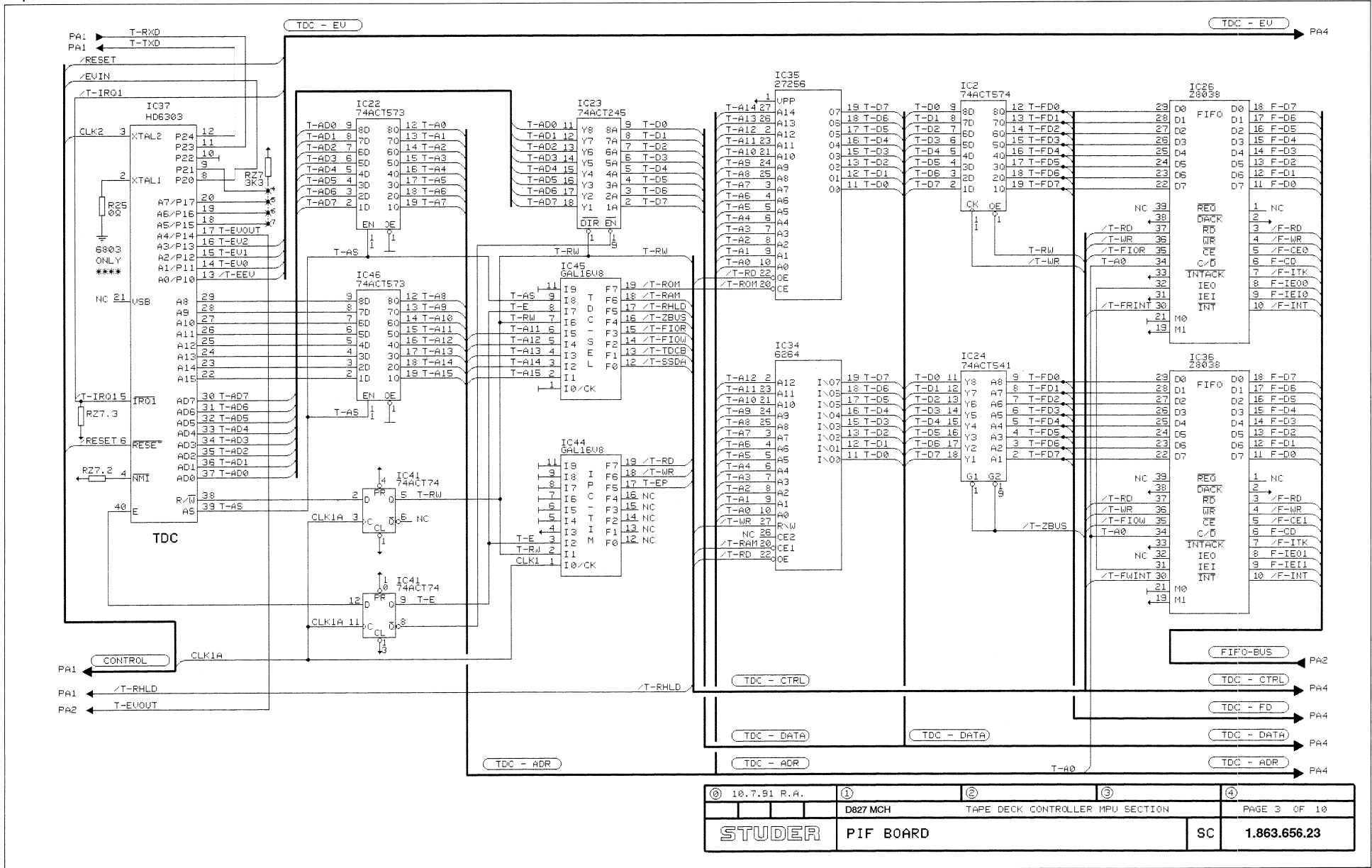
PERIPHERAL INTERFACE 1.863.656.23  
-Fifo Bus Interface



|                |           |                      |                 |
|----------------|-----------|----------------------|-----------------|
| ① 10.7.91 R.A. | ②         | ③                    | ④               |
|                | D827 MCH  | FIFO - BUS INTERFACE | PAGE 2 OF 10    |
| STUDER         | PIF BOARD |                      | SC 1.862.656.23 |

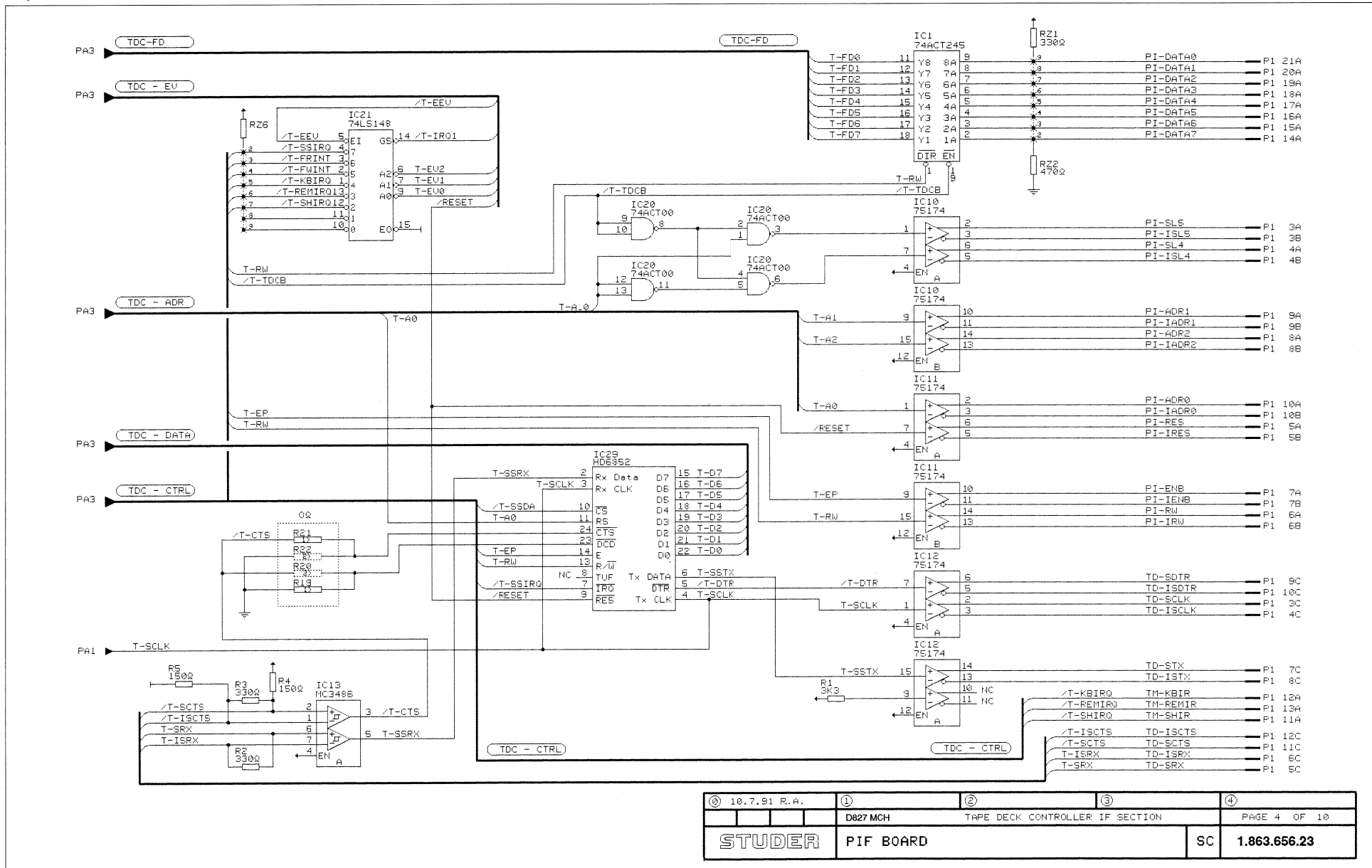


PERIPHERAL INTERFACE 1.863.656.23  
-Tape Deck Controller MPU Section



|               |              |                  |          |   |                                  |                     |              |
|---------------|--------------|------------------|----------|---|----------------------------------|---------------------|--------------|
| ①             | 10.7.91 R.A. | ②                | D827 MCH | ③ | TAPE DECK CONTROLLER MPU SECTION | ④                   | PAGE 3 OF 10 |
| <b>STUDER</b> |              | <b>PIF BOARD</b> |          |   | <b>SC</b>                        | <b>1.863.656.23</b> |              |

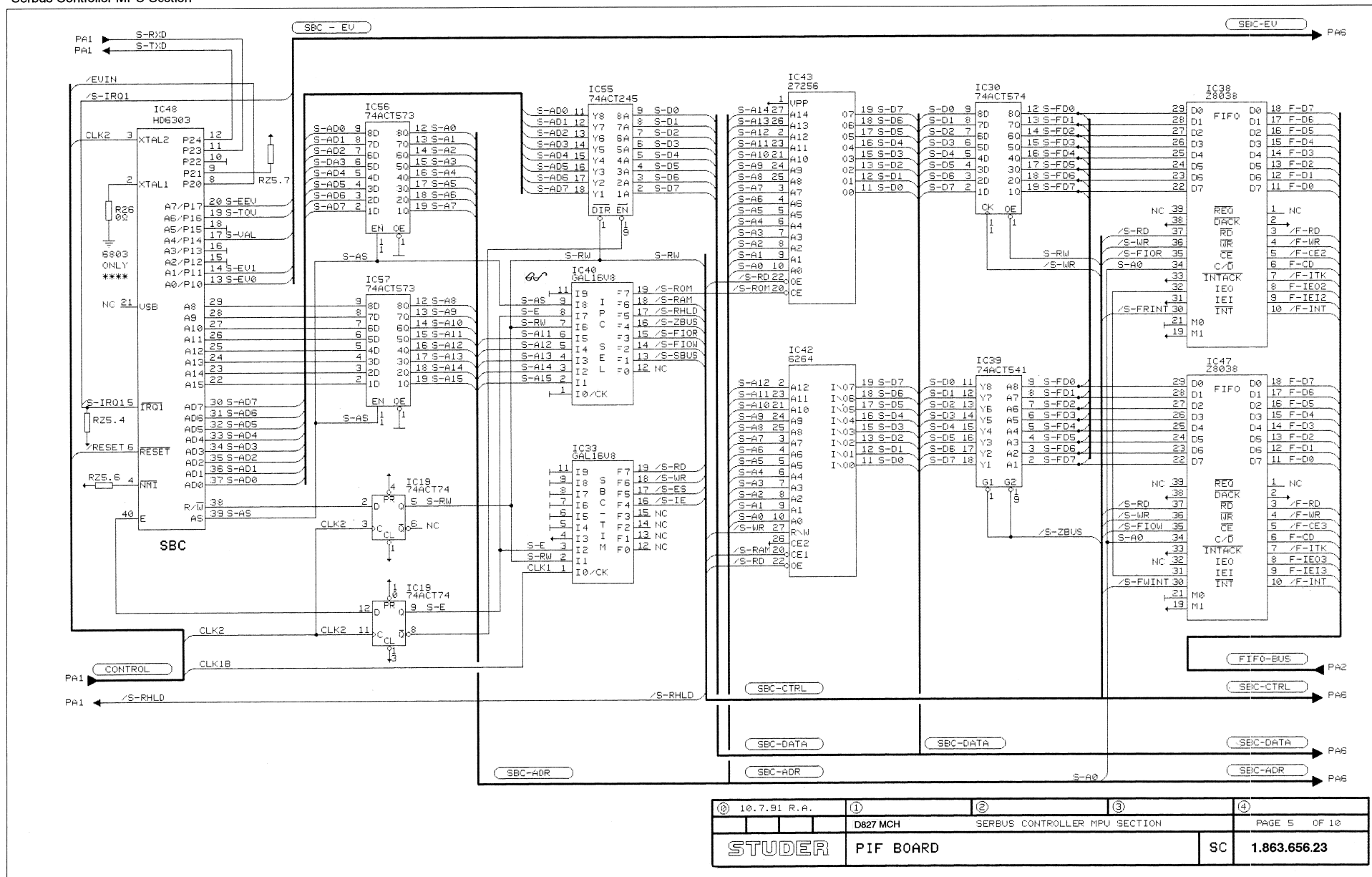
PERIPHERAL INTERFACE 1.863.656.23  
-Tape Deck Controller IF Section



|                 |                                 |           |                     |
|-----------------|---------------------------------|-----------|---------------------|
| ① 10.7.91 R..A. | ②                               | ③         | ④                   |
| D827 MCH        | TAPE DECK CONTROLLER IF SECTION |           | PAGE 4 OF 10        |
| <b>STUDER</b>   | <b>PIF BOARD</b>                | <b>SC</b> | <b>1.863.656.23</b> |



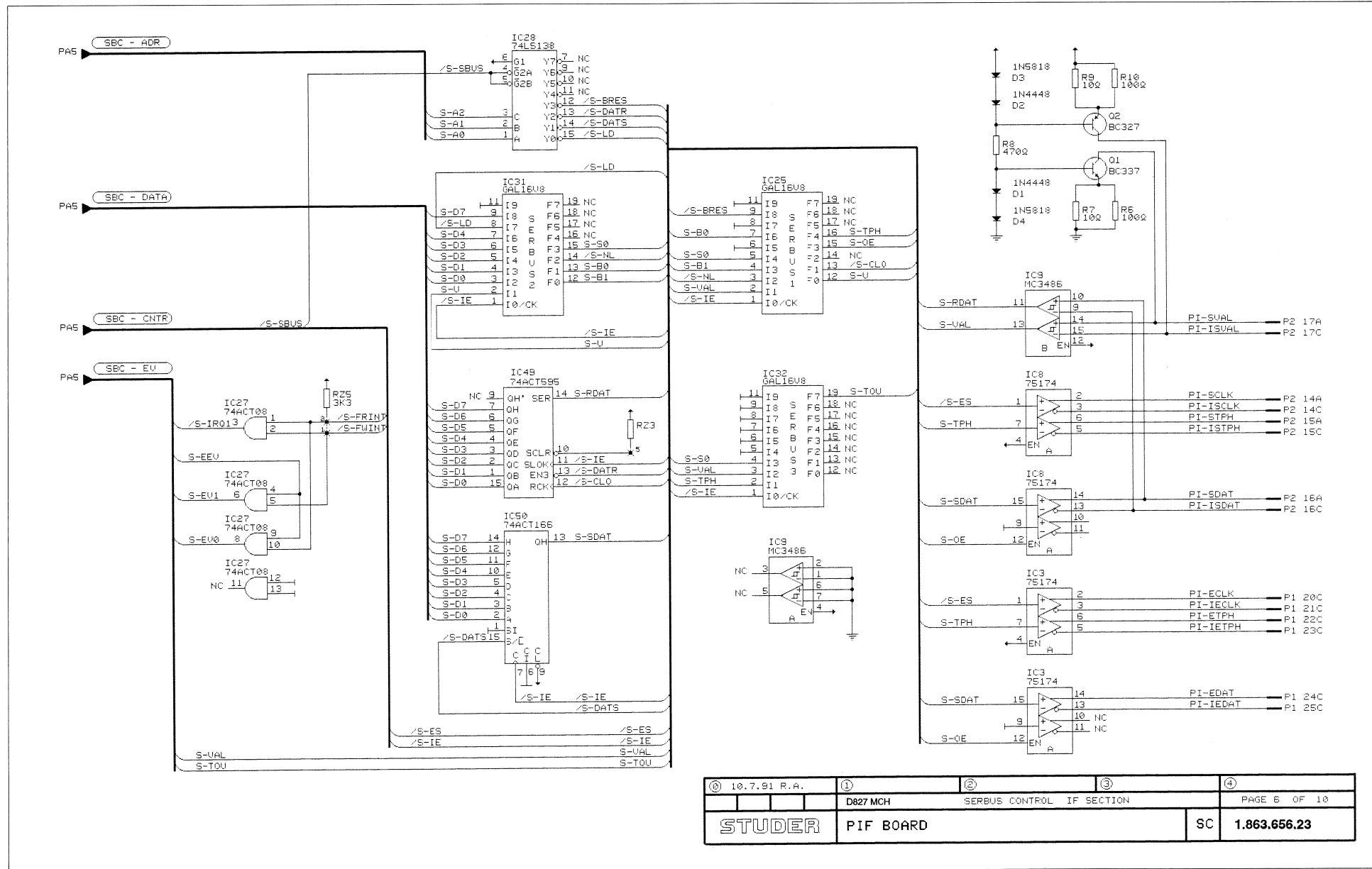
PERIPHERAL INTERFACE 1.863.656.23  
-Serbus Controller MPU Section



|                |            |                                 |                |
|----------------|------------|---------------------------------|----------------|
| ① 10.7.91 R.A. | ② D827 MCH | ③ SERBUS CONTROLLER MPU SECTION | ④ PAGE 5 OF 10 |
| STUDER         | PIF BOARD  | SC                              | 1.863.656.23   |

PERIPHERAL INTERFACE 1.863.656.23

-Serbus Control IF Section



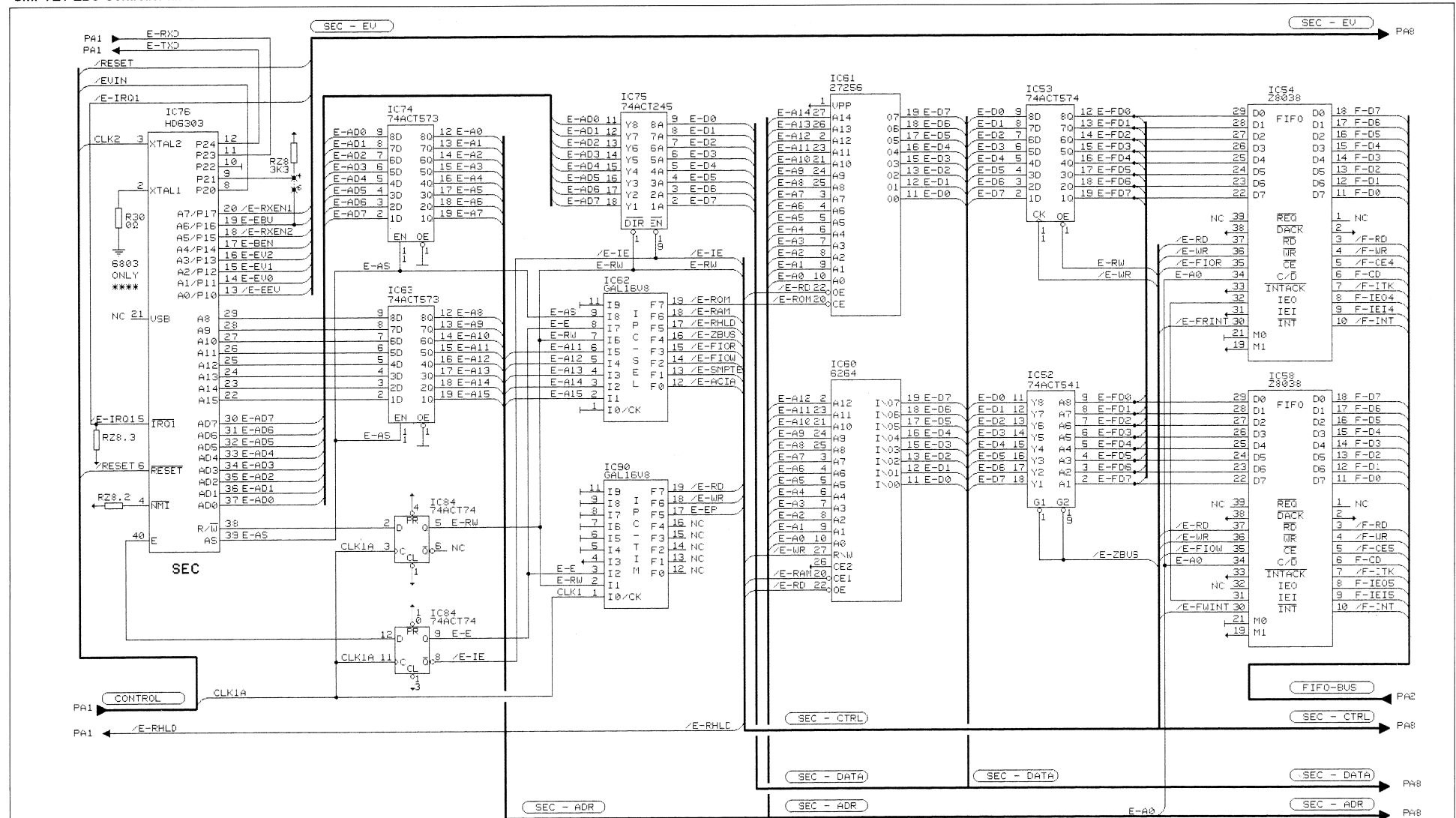
|                |                  |                           |           |                     |
|----------------|------------------|---------------------------|-----------|---------------------|
| ⑧ 10.7.91 R.A. | ①                | ②                         | ③         | ④                   |
|                | D827 MCH         | SERBUS CONTROL IF SECTION |           | PAGE 6 OF 10        |
| <b>STUDER</b>  | <b>PIF BOARD</b> |                           | <b>SC</b> | <b>1.863.656.23</b> |



STUDER D827 MCH



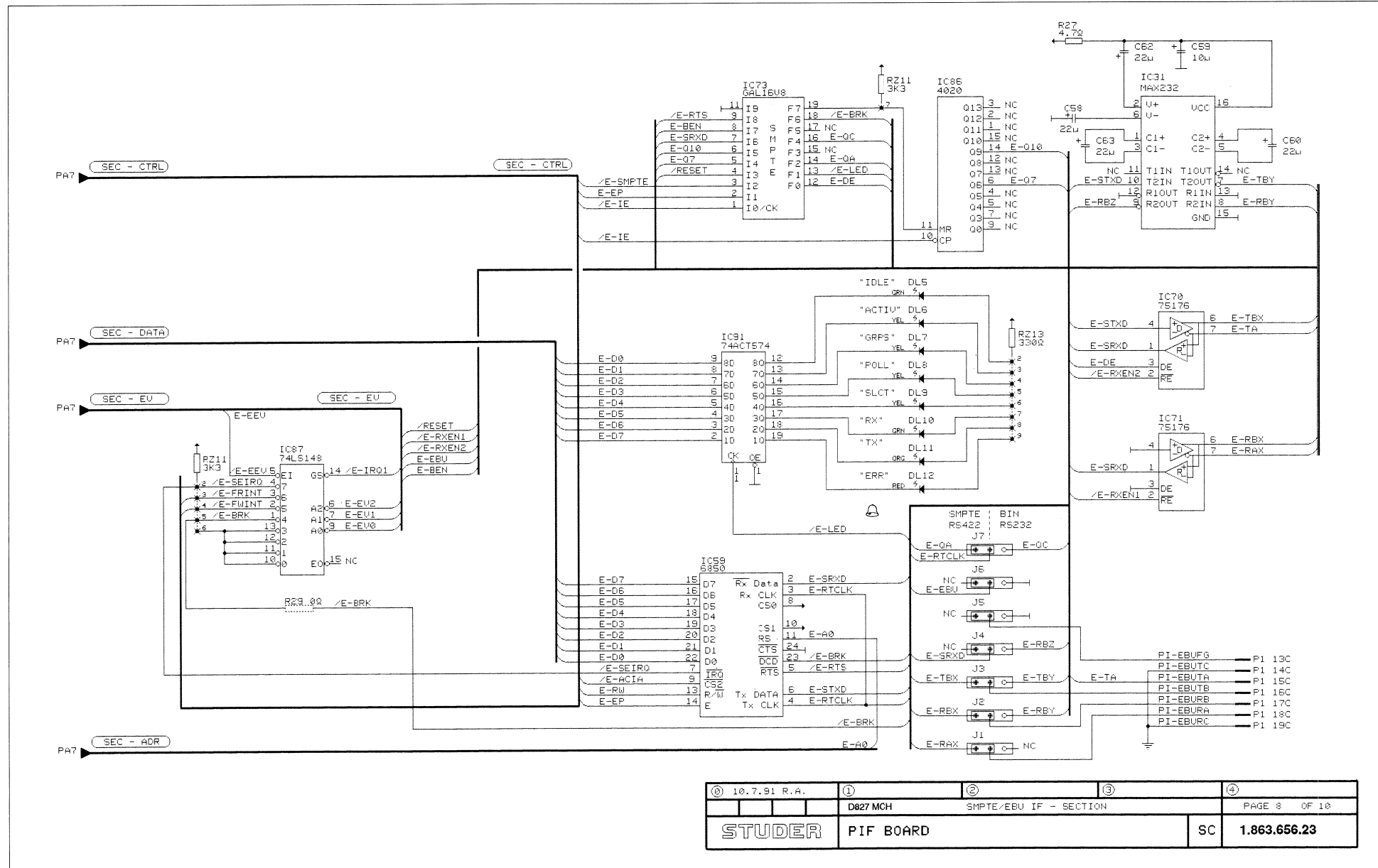
PERIPHERAL INTERFACE 1.863.656.23  
-SMPTE / EBU Controller MPU Section



|                  |            |                                    |                |
|------------------|------------|------------------------------------|----------------|
| ① 10.7.91 R.A.   | ② D827 MCH | ③ SMPTE/EBU CONTROLLER MPU SECTION | ④ PAGE 7 OF 10 |
| STUDER PIF BOARD |            | SC                                 | 1.863.656.23   |

PERIPHERAL INTERFACE 1.863.656.23

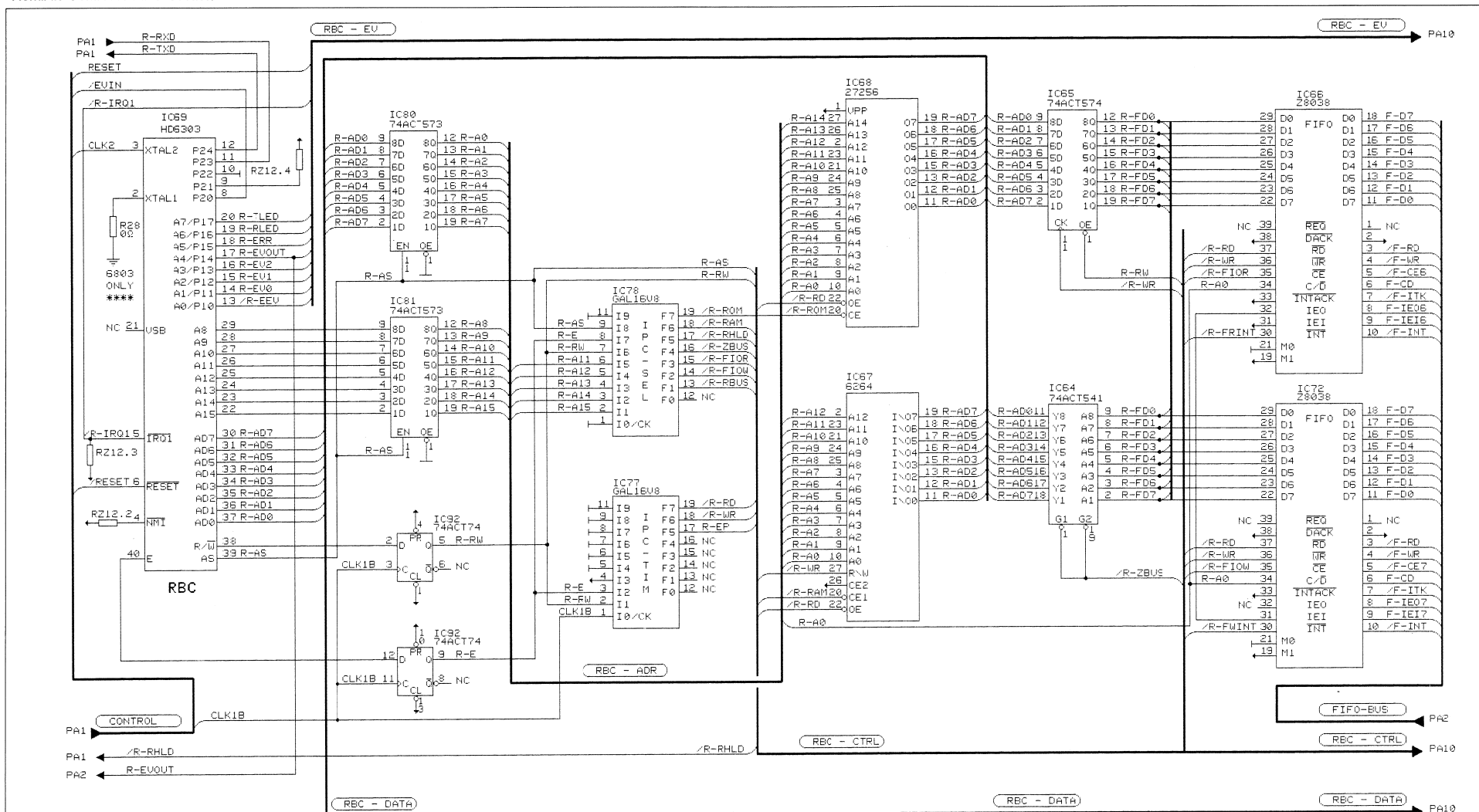
-SMPT E / EBU IF Section



|                |            |                           |                 |
|----------------|------------|---------------------------|-----------------|
| ① 10.7.91 R.A. | ② D827 MCH | ③ SMPT E/EBU IF - SECTION | ④ PAGE 8 OF 10  |
| STUDER         |            | PIF BOARD                 | SC 1.863.656.23 |



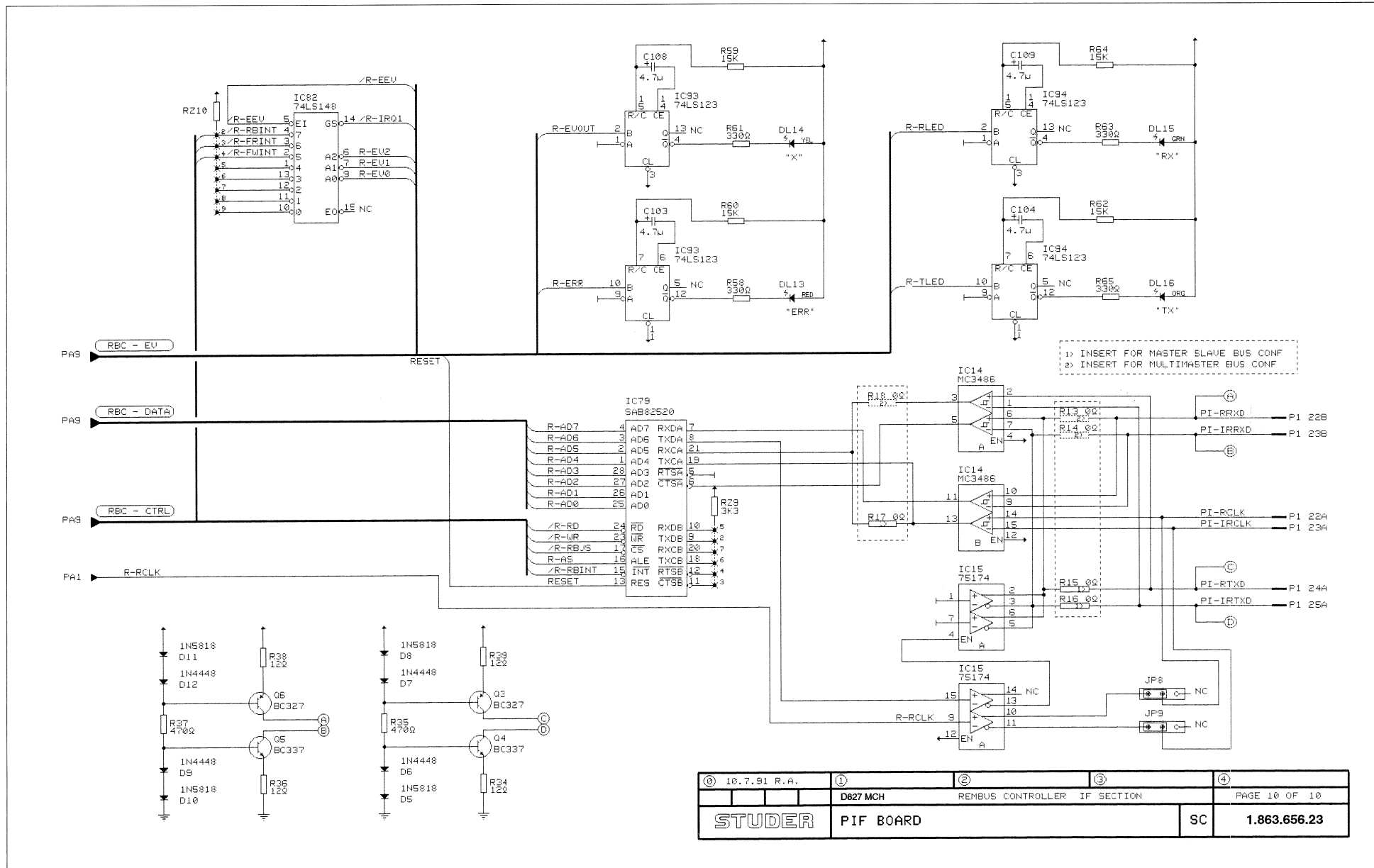
PERIPHERAL INTERFACE 1.863.656.23  
-Rembus Controller MPU Section



| ①             | ②                  | ③                             | ④                   |
|---------------|--------------------|-------------------------------|---------------------|
| 10.7.91 R.A.  | D827 MCH           | REMBUS CONTROLLER MPU SECTION | PAGE 9 OF 10        |
| <b>STUDER</b> | <b>P I F BOARD</b> | <b>SC</b>                     | <b>1.863.656.23</b> |

PERIPHERAL INTERFACE 1.863.656.23

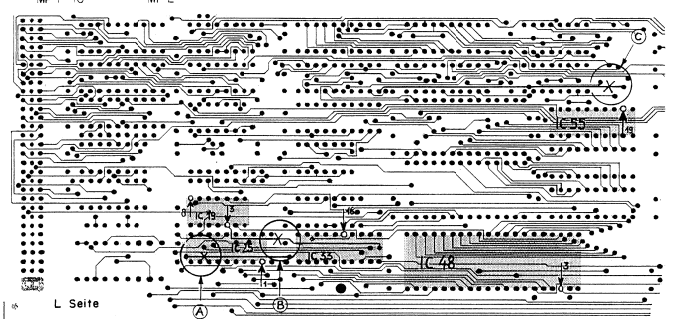
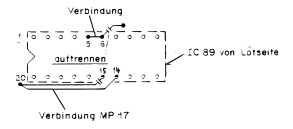
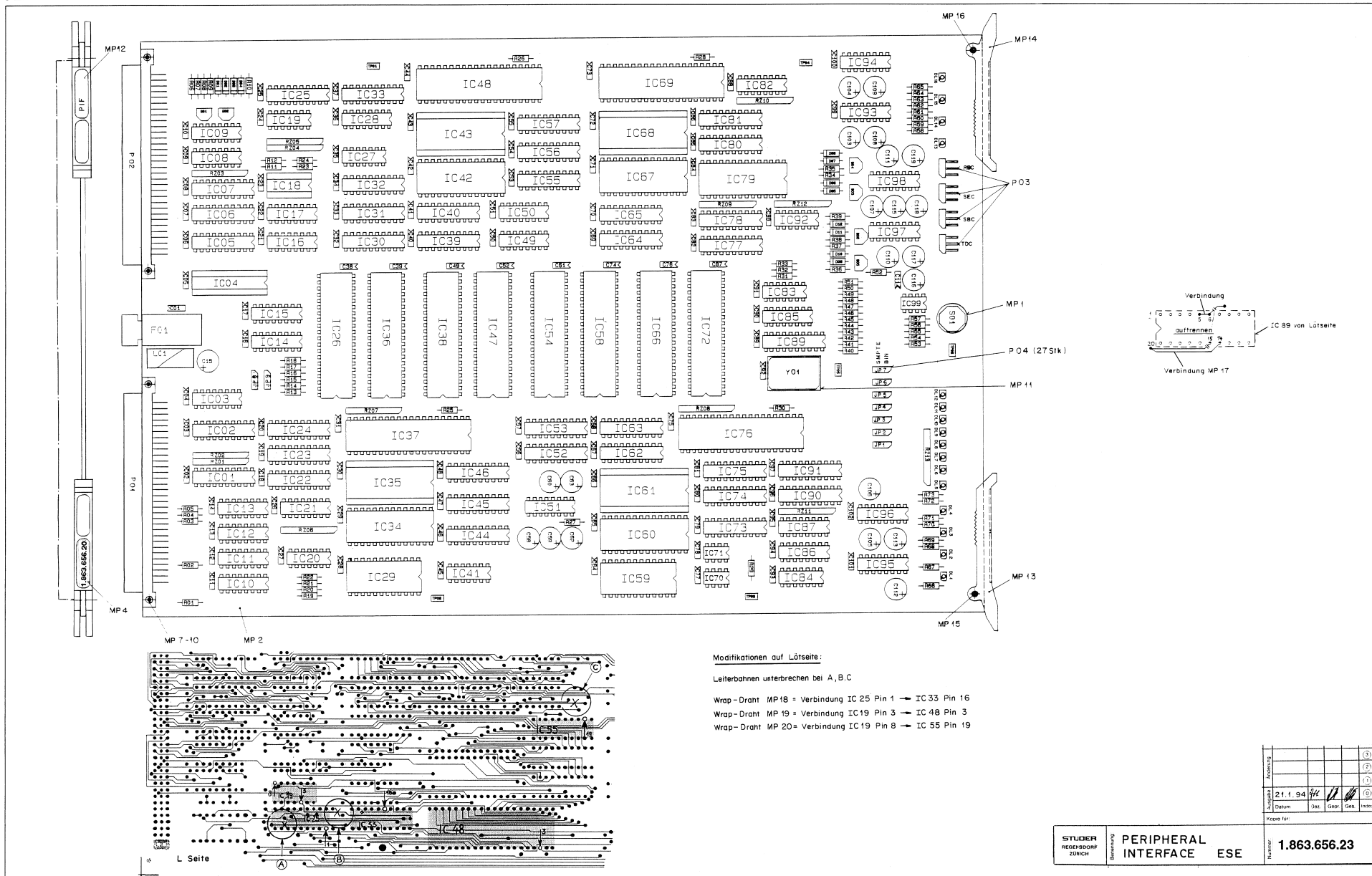
-Rembus Controller IF Section



|                  |          |                              |                 |
|------------------|----------|------------------------------|-----------------|
| ① 10.7.91 R.A.   | ②        | ③                            | ④               |
|                  | D827 MCH | REMBUS CONTROLLER IF SECTION | PAGE 10 OF 10   |
| STUDER PIF BOARD |          |                              | SC 1.863.656.23 |



PERIPHERAL INTERFACE 1.863.656.23



Modifikationen auf Lötseite:

Leiterbahnen unterbrechen bei A, B, C

- Wrap-Draht MP18 = Verbindung IC 25 Pin 1 → IC 33 Pin 16
- Wrap-Draht MP 19 = Verbindung IC19 Pin 3 → IC 48 Pin 3
- Wrap-Draht MP 20= Verbindung IC19 Pin 8 → IC 55 Pin 19

|             |              |   |   |   |
|-------------|--------------|---|---|---|
| Reviz.      | 1            | 2 | 3 | 4 |
| Freigegeben |              |   |   |   |
| Datum       | 24.1.94      |   |   |   |
| Zeichner    |              |   |   |   |
| Gepr.       |              |   |   |   |
| Gepr.       |              |   |   |   |
| Ingen.      |              |   |   |   |
| Kopie für   |              |   |   |   |
| Nummer      | 1.863.656.23 |   |   |   |

STUDER REGENSDORF ZÜRICH

Benennung PERIPHERAL INTERFACE ESE

PERIPHERAL INTERFACE 1.863.656.23



Table with columns: Ad., POS., REF. No., DESCRIPTION, MANUFACTURER. Contains parts list for the left side of the assembly.

Table with columns: Ad., POS., REF. No., DESCRIPTION, MANUFACTURER. Contains parts list for the middle section of the assembly.

Table with columns: Ad., POS., REF. No., DESCRIPTION, MANUFACTURER. Contains parts list for the right side of the assembly.

Table with columns: Ad., POS., REF. No., DESCRIPTION, MANUFACTURER. Contains parts list for the right side of the assembly, including assembly instructions and quantities.



## PERIPHERAL INTERFACE 1.863.656.23

| Ad      | ..POS.. | ..REF.No.. | DESCRIPTION.....  | MANUFACTURER |
|---------|---------|------------|-------------------|--------------|
| XIC..31 |         | 53.03.0165 | XIC DIL 20-POL    | ANY          |
| XIC..32 |         | 53.03.0165 | XIC DIL 20-POL    | ANY          |
| XIC..33 |         | 53.03.0165 | XIC DIL 20-POL    | ANY          |
| XIC..35 |         | 53.03.0173 | XIC DIL 28-POL    | ANY          |
| XIC..37 |         | 53.03.0172 | XIC DIL 40-POL    | ANY          |
| XIC..40 |         | 53.03.0165 | XIC DIL 20-POL    | ANY          |
| XIC..43 |         | 53.03.0173 | XIC DIL 28-POL    | ANY          |
| XIC..44 |         | 53.03.0165 | XIC DIL 20-POL    | ANY          |
| XIC..45 |         | 53.03.0165 | XIC DIL 20-POL    | ANY          |
| XIC..48 |         | 53.03.0172 | XIC DIL 40-POL    | ANY          |
| XIC..51 |         | 53.03.0168 | XIC DIL 16-POL    | ANY          |
| XIC..61 |         | 53.03.0173 | XIC DIL 28-POL    | ANY          |
| XIC..62 |         | 53.03.0165 | XIC DIL 20-POL    | ANY          |
| XIC..68 |         | 53.03.0173 | XIC DIL 28-POL    | ANY          |
| XIC..69 |         | 53.03.0172 | XIC DIL 40-POL    | ANY          |
| XIC..70 |         | 53.03.0166 | XIC DIL 8-POL     | ANY          |
| XIC..71 |         | 53.03.0166 | XIC DIL 8-POL     | ANY          |
| XIC..73 |         | 53.03.0165 | XIC DIL 20-POL    | ANY          |
| XIC..76 |         | 53.03.0172 | XIC DIL 40-POL    | ANY          |
| XIC..77 |         | 53.03.0165 | XIC DIL 20-POL    | ANY          |
| XIC..78 |         | 53.03.0165 | XIC DIL 20-POL    | ANY          |
| XIC..79 |         | 53.03.0173 | XIC DIL 28-POL    | ANY          |
| XIC..90 |         | 53.03.0165 | XIC DIL 20-POL    | ANY          |
| XIC..97 |         | 53.03.0168 | XIC DIL 16-POL    | ANY          |
| XIC..98 |         | 53.03.0168 | XIC DIL 16-POL    | ANY          |
| Y.....1 |         | 89.01.1807 | Y-OSC 19.6608 MHZ | ANY          |

## REMARKS:

MANUFACTURERS:  
St = STUDER

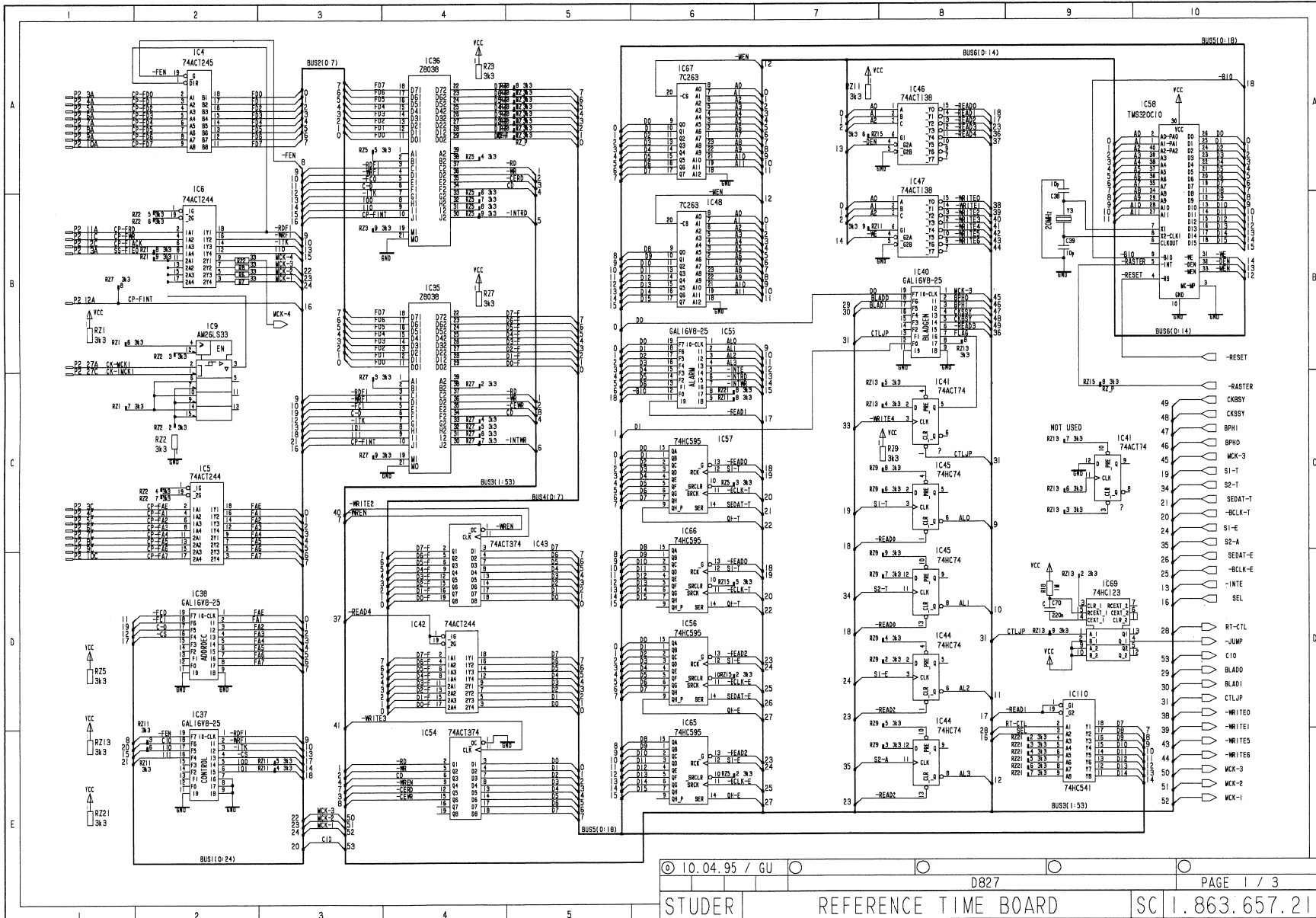
ABBREVIATIONS:  
CER = CERAMIC / FILM = FILM TYPE / XF = CLAMP FOR FUSES /  
XIC = IC SOCKET

1.863.656.23 PIF-BOARD D827 ,A ML 94/10/2800

END  
+

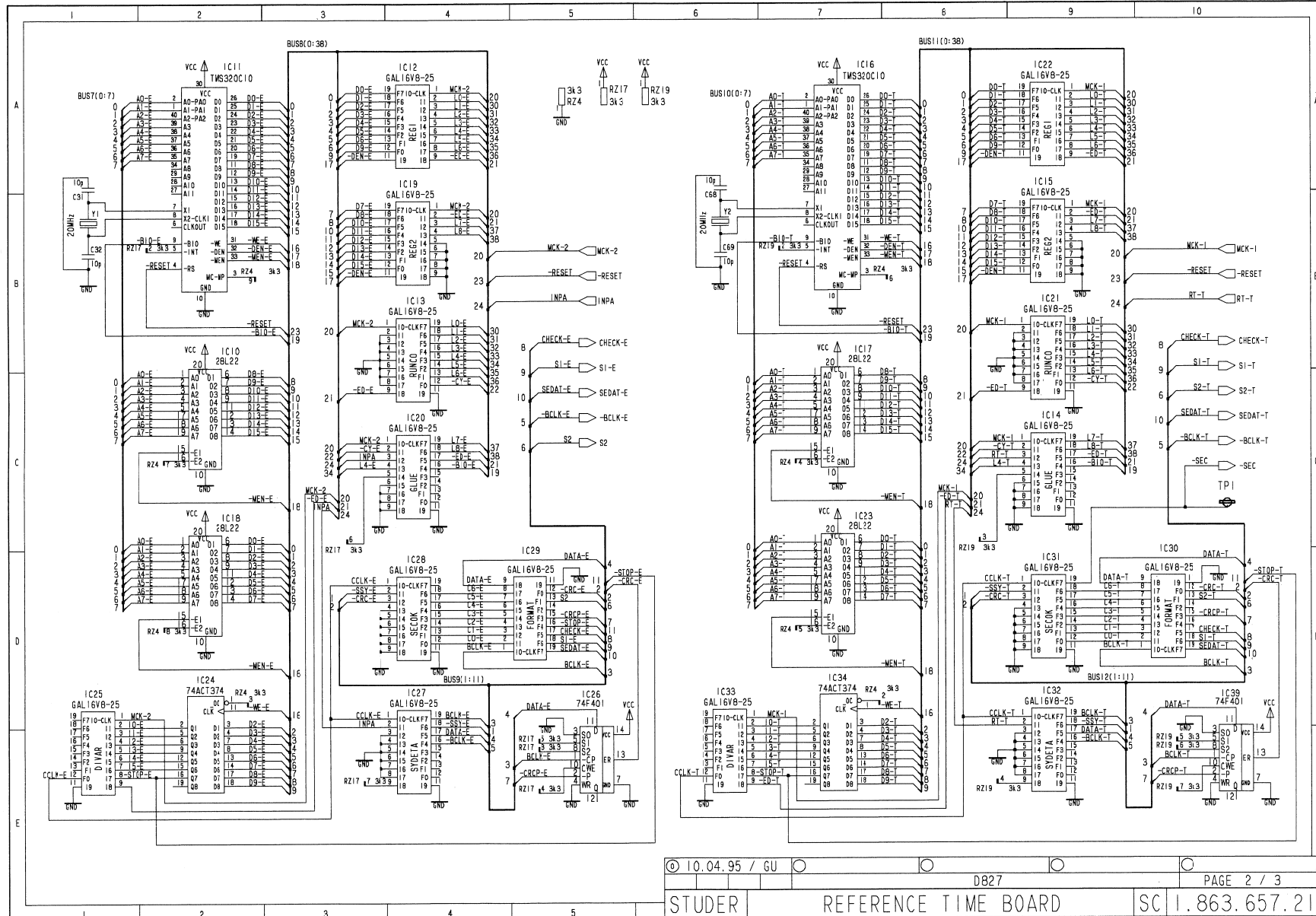
STUDER D827 MCH

REFERENCE TIME BOARD 1.863.657.21





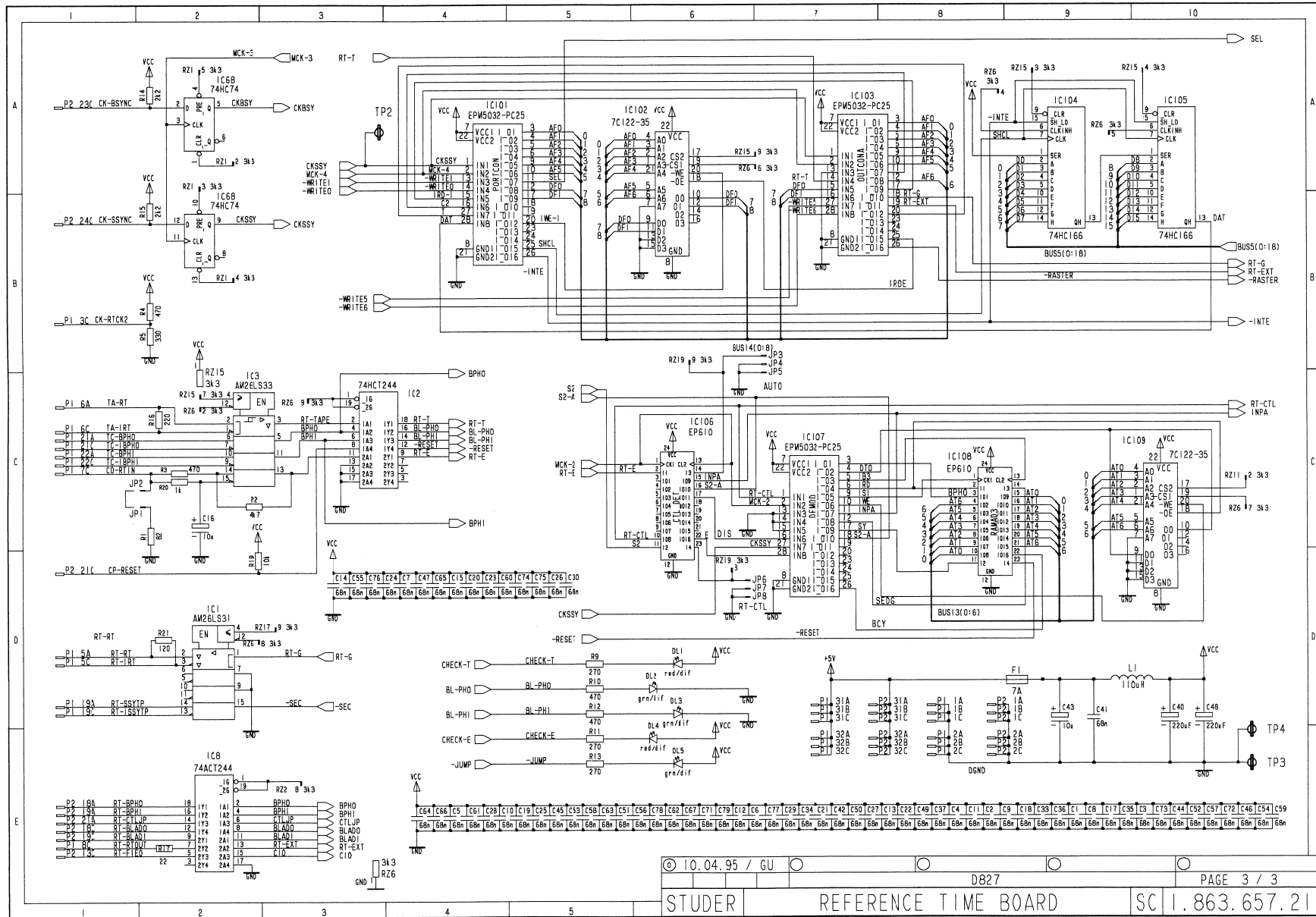
REFERENCE TIME BOARD 1.863.657.21



STUDER D827 MCH

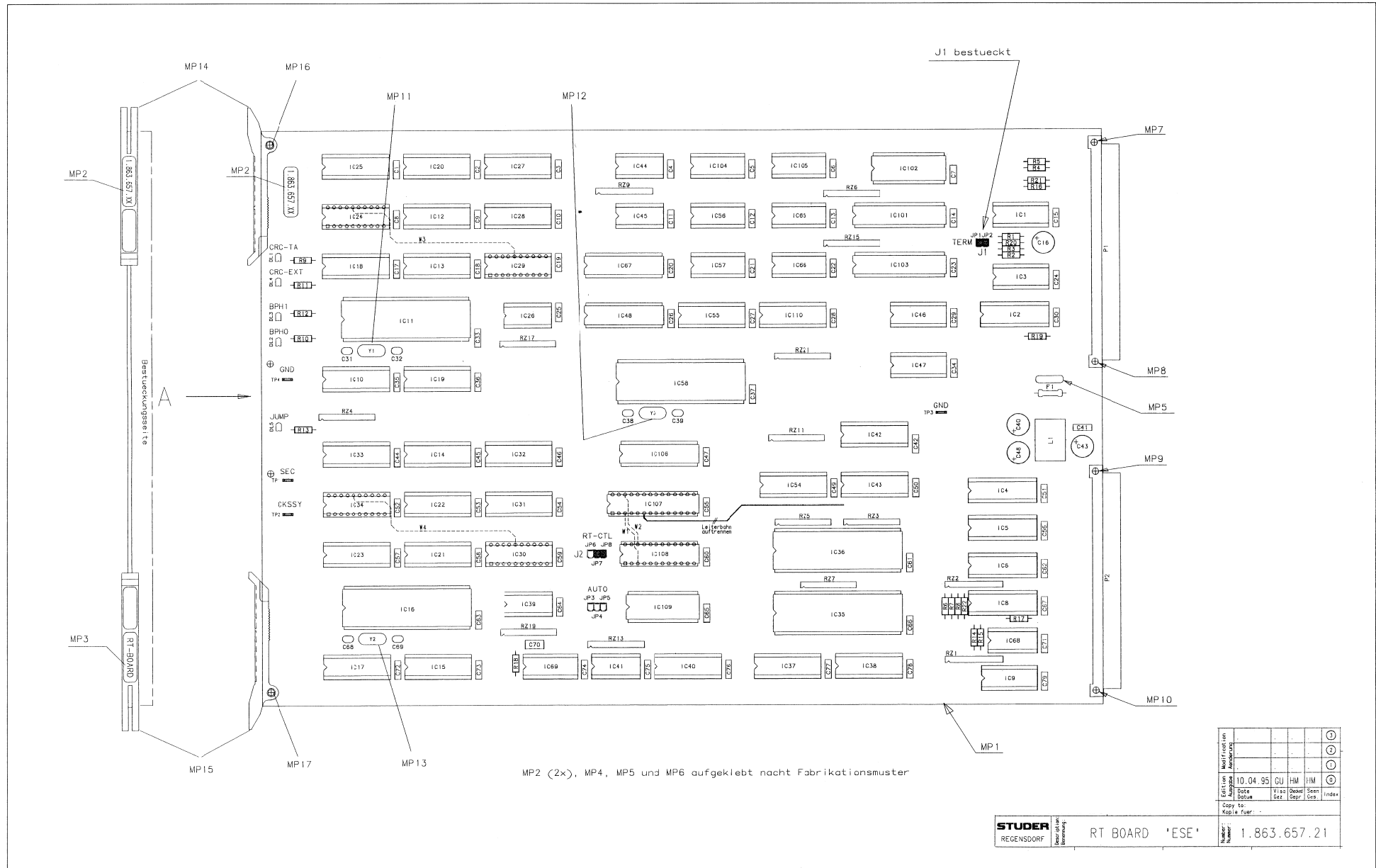


REFERENCE TIME BOARD 1.863.657.21



|               |                      |                 |
|---------------|----------------------|-----------------|
| 10.04.95 / GU | D827                 | PAGE 3 / 3      |
| STUDER        | REFERENCE TIME BOARD | SC 1.863.657.21 |

REFERENCE TIME BOARD 1.863.657.21



MP2 (2x), MP4, MP5 und MP6 aufgeklebt nach Fabrikationsmuster

|              |          |      |       |       |       |  |  |
|--------------|----------|------|-------|-------|-------|--|--|
| Modifikation |          |      |       |       |       |  |  |
| Date         | 10.04.95 | CU   | HM    | HM    |       |  |  |
| Date         |          | Yiss | Deprt | Seent | Index |  |  |
| Kopie        |          |      |       |       |       |  |  |
| Kopie fuer   |          |      |       |       |       |  |  |

**STUDER**  
REGENSDORF

RT BOARD 'ESE'

1.863.657.21

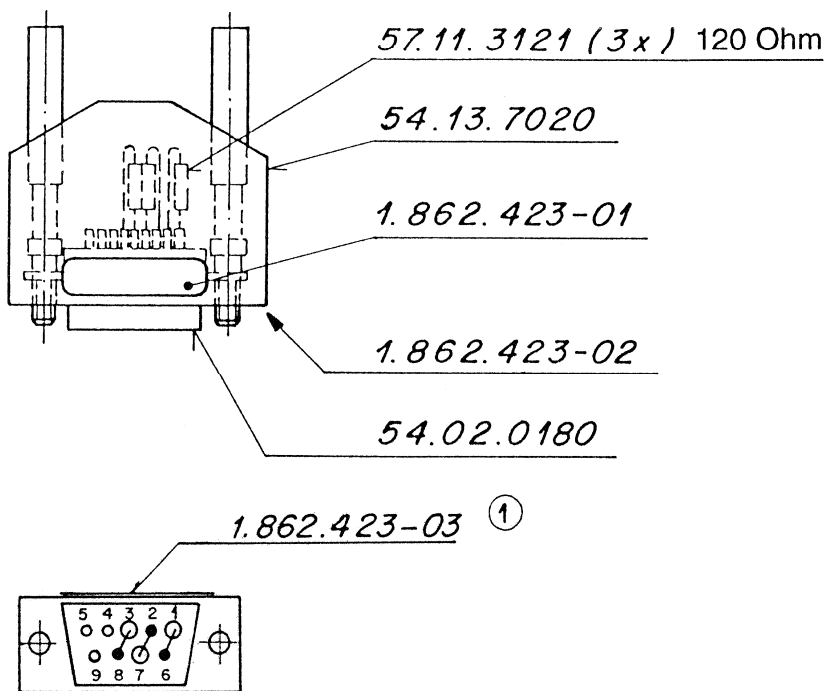


# STUDER D827 MCH

## REFERENCE TIME BOARD 1.863.657.21

| Ad           | ..POS..      | ..REF.No...          | DESCRIPTION.....                             | MANUFACTURER |
|--------------|--------------|----------------------|--|--------------|
| R....7       | 57.11.3330   | 33                   | 0.6W, 1%, 0207,                              | MF           |
| R....8       | 57.11.3330   | 33                   | 0.6W, 1%, 0207,                              | MF           |
| R....9       | 57.11.3271   | 270                  | 0.6W, 1%, 0207,                              | MF           |
| R....10      | 57.11.3471   | 470                  | 0.6W, 1%, 0207,                              | MF           |
| R....11      | 57.11.3271   | 270                  | 0.6W, 1%, 0207,                              | MF           |
| R....12      | 57.11.3471   | 470                  | 0.6W, 1%, 0207,                              | MF           |
| R....13      | 57.11.3271   | 270                  | 0.6W, 1%, 0207,                              | MF           |
| R....14      | 57.11.3222   | 2k2                  | 0.6W, 1%, 0207,                              | MF           |
| R....15      | 57.11.3222   | 2k2                  | 0.6W, 1%, 0207,                              | MF           |
| R....16      | 57.11.3221   | 220                  | 0.6W, 1%, 0207,                              | MF           |
| R....17      | 57.11.3220   | 22                   | 0.6W, 1%, 0207,                              | MF           |
| R....18      | 57.11.3105   | 1M                   | 0.6W, 1%, 0207,                              | MF           |
| R....19      | 57.11.3103   | 10k                  | 0.6W, 1%, 0207,                              | MF           |
| R....20      | 57.11.3102   | 1k                   | 0.6W, 1%, 0207,                              | MF           |
| R....21      | 57.11.3121   | 120                  | 0.6W, 1%, 0207,                              | MF           |
| R....22      | 57.11.3330   | 33                   | 0.6W, 1%, 0207,                              | MF           |
| RZ....1      | 57.88.4332   | 3k3                  | 0.125W, 2%, SIP09,                           | 8 * 3k3      |
| RZ....2      | 57.88.4332   | 3k3                  | 0.125W, 2%, SIP09,                           | 8 * 3k3      |
| RZ....3      | 57.88.4332   | 3k3                  | 0.125W, 2%, SIP09,                           | 8 * 3k3      |
| RZ....4      | 57.88.4332   | 3k3                  | 0.125W, 2%, SIP09,                           | 8 * 3k3      |
| RZ....5      | 57.88.4332   | 3k3                  | 0.125W, 2%, SIP09,                           | 8 * 3k3      |
| RZ....6      | 57.88.4332   | 3k3                  | 0.125W, 2%, SIP09,                           | 8 * 3k3      |
| RZ....7      | 57.88.4332   | 3k3                  | 0.125W, 2%, SIP09,                           | 8 * 3k3      |
| RZ....9      | 57.88.4332   | 3k3                  | 0.125W, 2%, SIP09,                           | 8 * 3k3      |
| RZ....11     | 57.88.4332   | 3k3                  | 0.125W, 2%, SIP09,                           | 8 * 3k3      |
| RZ....13     | 57.88.4332   | 3k3                  | 0.125W, 2%, SIP09,                           | 8 * 3k3      |
| RZ....15     | 57.88.4332   | 3k3                  | 0.125W, 2%, SIP09,                           | 8 * 3k3      |
| RZ....17     | 57.88.4332   | 3k3                  | 0.125W, 2%, SIP09,                           | 8 * 3k3      |
| RZ....19     | 57.88.4332   | 3k3                  | 0.125W, 2%, SIP09,                           | 8 * 3k3      |
| RZ....21     | 57.88.4332   | 3k3                  | 0.125W, 2%, SIP09,                           | 8 * 3k3      |
| TP....1      | 54.02.0320   | 1-P                  | MALE, STR., 54.02.0320, FLATPIN 2.8*0.8      |              |
| TP....2      | 54.02.0320   | 1-P                  | MALE, STR., 54.02.0320, FLATPIN 2.8*0.8      |              |
| TP....3      | 54.02.0320   | 1-P                  | MALE, STR., 54.02.0320, FLATPIN 2.8*0.8      |              |
| TP....4      | 54.02.0320   | 1-P                  | MALE, STR., 54.02.0320, FLATPIN 2.8*0.8      |              |
| W....1       | 1.010.107.64 |                      | WIRE WRAP                                    |              |
| W....2       | 1.010.107.64 |                      | WIRE WRAP                                    |              |
| W....3       | 1.010.112.64 |                      | WIRE WRAP                                    |              |
| W....4       | 1.010.112.64 |                      | WIRE WRAP                                    |              |
| XIC...1      | 53.03.0168   |                      | DIL16  |              |
| XIC...2      | 53.03.0165   |                      | DIL20  |              |
| XIC...3      | 53.03.0168   |                      | DIL16  |              |
| XIC...8      | 53.03.0165   |                      | DIL20  |              |
| XIC...10     | 53.03.0165   |                      | DIL20  |              |
| XIC...12     | 53.03.0165   |                      | DIL20  |              |
| XIC...13     | 53.03.0165   |                      | DIL20  |              |
| XIC...14     | 53.03.0165   |                      | DIL20  |              |
| XIC...15     | 53.03.0165   |                      | DIL20  |              |
| XIC...17     | 53.03.0165   |                      | DIL20  |              |
| XIC...18     | 53.03.0165   |                      | DIL20  |              |
| XIC...19     | 53.03.0165   |                      | DIL20  |              |
| XIC...20     | 53.03.0165   |                      | DIL20  |              |
| XIC...21     | 53.03.0165   |                      | DIL20  |              |
| XIC...22     | 53.03.0165   |                      | DIL20  |              |
| XIC...23     | 53.03.0165   |                      | DIL20  |              |
| XIC...25     | 53.03.0165   |                      | DIL20  |              |
| XIC...27     | 53.03.0165   |                      | DIL20  |              |
| XIC...28     | 53.03.0165   |                      | DIL20  |              |
| XIC...29     | 53.03.0165   |                      | DIL20  |              |
| XIC...30     | 53.03.0165   |                      | DIL20  |              |
| XIC...31     | 53.03.0165   |                      | DIL20  |              |
| XIC...32     | 53.03.0165   |                      | DIL20  |              |
| XIC...33     | 53.03.0165   |                      | DIL20  |              |
| XIC...37     | 53.03.0165   |                      | DIL20  |              |
| XIC...38     | 53.03.0165   |                      | DIL20  |              |
| XIC...40     | 53.03.0165   |                      | DIL20  |              |
| XIC..48      | 53.03.0182   |                      | DIL24-3                                      |              |
| XIC..55      | 53.03.0165   |                      | DIL20  |              |
| XIC..67      | 53.03.0182   |                      | DIL24-3                                      |              |
| XIC.101A     | 53.03.0167   |                      | DIL14  |              |
| XIC.101B     | 53.03.0167   |                      | DIL14  |              |
| XIC.103A     | 53.03.0167   |                      | DIL14  |              |
| XIC.103B     | 53.03.0167   |                      | DIL14  |              |
| XIC.106      | 53.03.0182   |                      | DIL24-3                                      |              |
| XIC.107A     | 53.03.0167   |                      | DIL14  |              |
| XIC.107B     | 53.03.0167   |                      | DIL14  |              |
| XIC.108      | 53.03.0182   |                      | DIL24-3                                      |              |
| XIC.110      | 53.03.0165   |                      | DIL20  |              |
| Y....1       | 89.01.1007   |                      | 20.000MHz PAR.,,89011-2B, HC18/43/49/U VERT. |              |
| Y....2       | 89.01.1007   |                      | 20.000MHz PAR.,,89011-2B, HC18/43/49/U VERT. |              |
| Y....3       | 89.01.1007   |                      | 20.000MHz PAR.,,89011-2B, HC18/43/49/U VERT. |              |
| 1.863.657.21 |              | REFERENCE TIME BOARD | BN95-04-1000                                 |              |

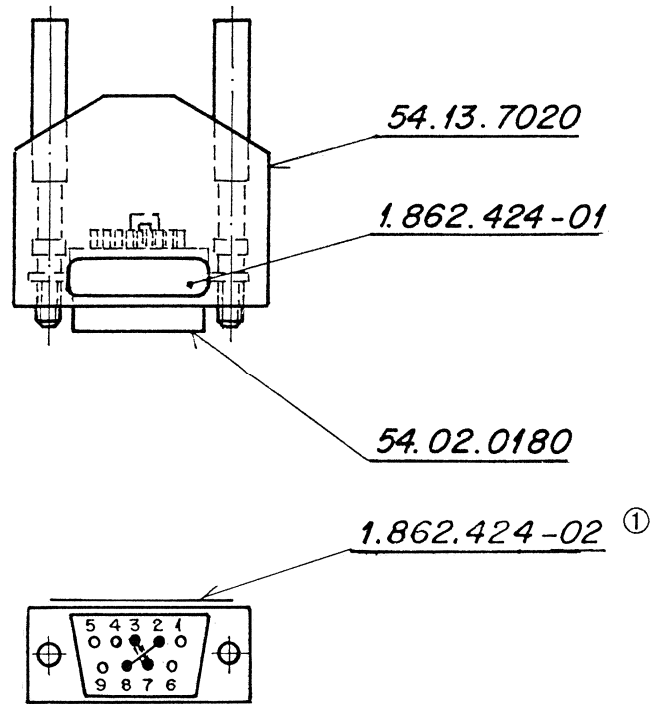
REMBUS TERMINATION PLUG 1.862.423.00



|          |      |       |      |       |   |
|----------|------|-------|------|-------|---|
| Änderung |      |       |      |       | ① |
| 9.4.96   | B.   | K.    |      |       | ② |
| 28.3.90  | A.   | K.    | K.   |       | ③ |
| Datum    | Gez. | Gedr. | Ges. | Index |   |

|                                |   |                        |
|--------------------------------|---|------------------------|
| STUDER<br>REGENSDORF<br>ZÜRICH | Benennung<br><b>REMBUS<br/>TERMINATION PLUG</b> | Kopie für:             |
|                                |   | Nummer<br>1.862.423-00 |

ES-BUS DUMMY PLUG 1.862.424.00



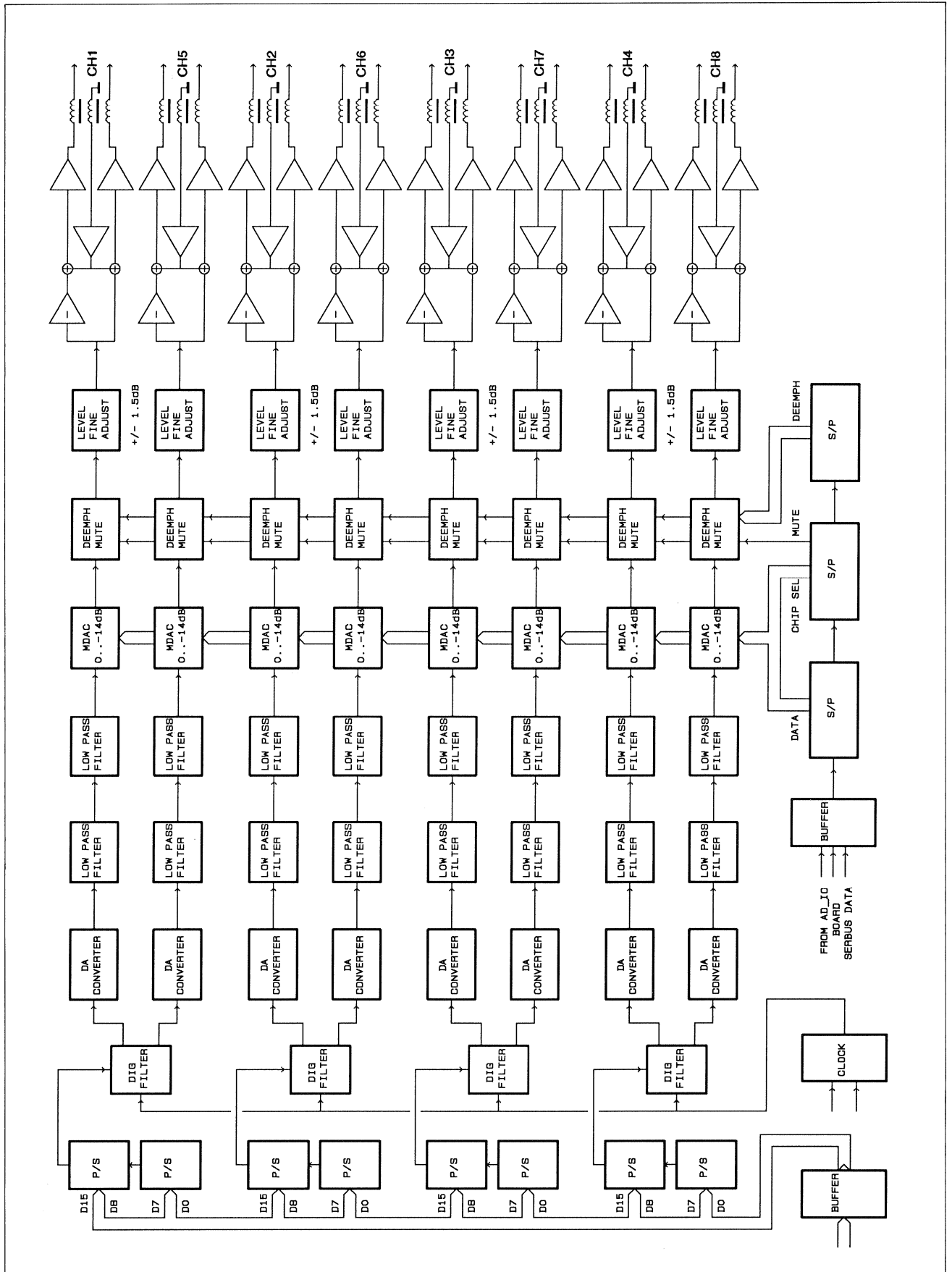
- ② Connect pins 2+8, and pins 3+7 (bridges 1.010.322.64 and 1.010.330.64).  
 Insulate one of the bridges with 65.99.0111

|                |         |       |      |       |   |
|----------------|---------|-------|------|-------|---|
|                |         |       |      |       | ③ |
| Ausg.<br>Datum | 17.2.97 | Ro    | Ro   |       | ② |
|                | 9.4.96  | Ro    | Ro   |       | ① |
|                | 7.5.92  | Ro    | Ro   |       | ① |
|                | Gez.    | Gepr. | Ges. | Index |   |

Kopie für:

|                                |           |                      |        |              |
|--------------------------------|-----------|----------------------|--------|--------------|
| STUDER<br>REGENSDORF<br>ZÜRICH | Benennung | ES-BUS DUMMY<br>PLUG | Nummer | 1.862.424.00 |
|                                |           |                      |        |              |

**BLOCK DIAGRAM**  
D / A BOARD 1.863.658 (OPTION)

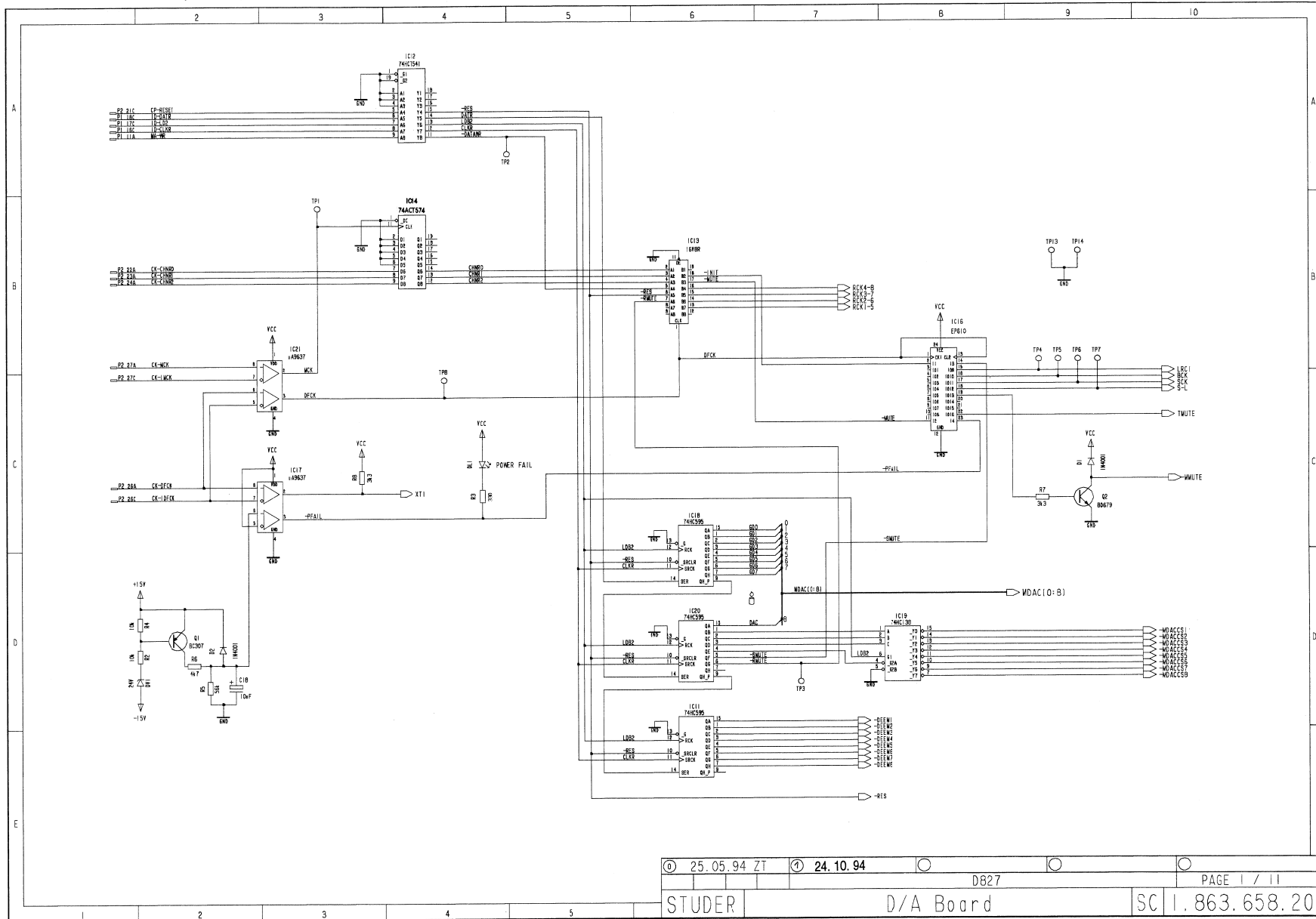




STUDER D827 MCH



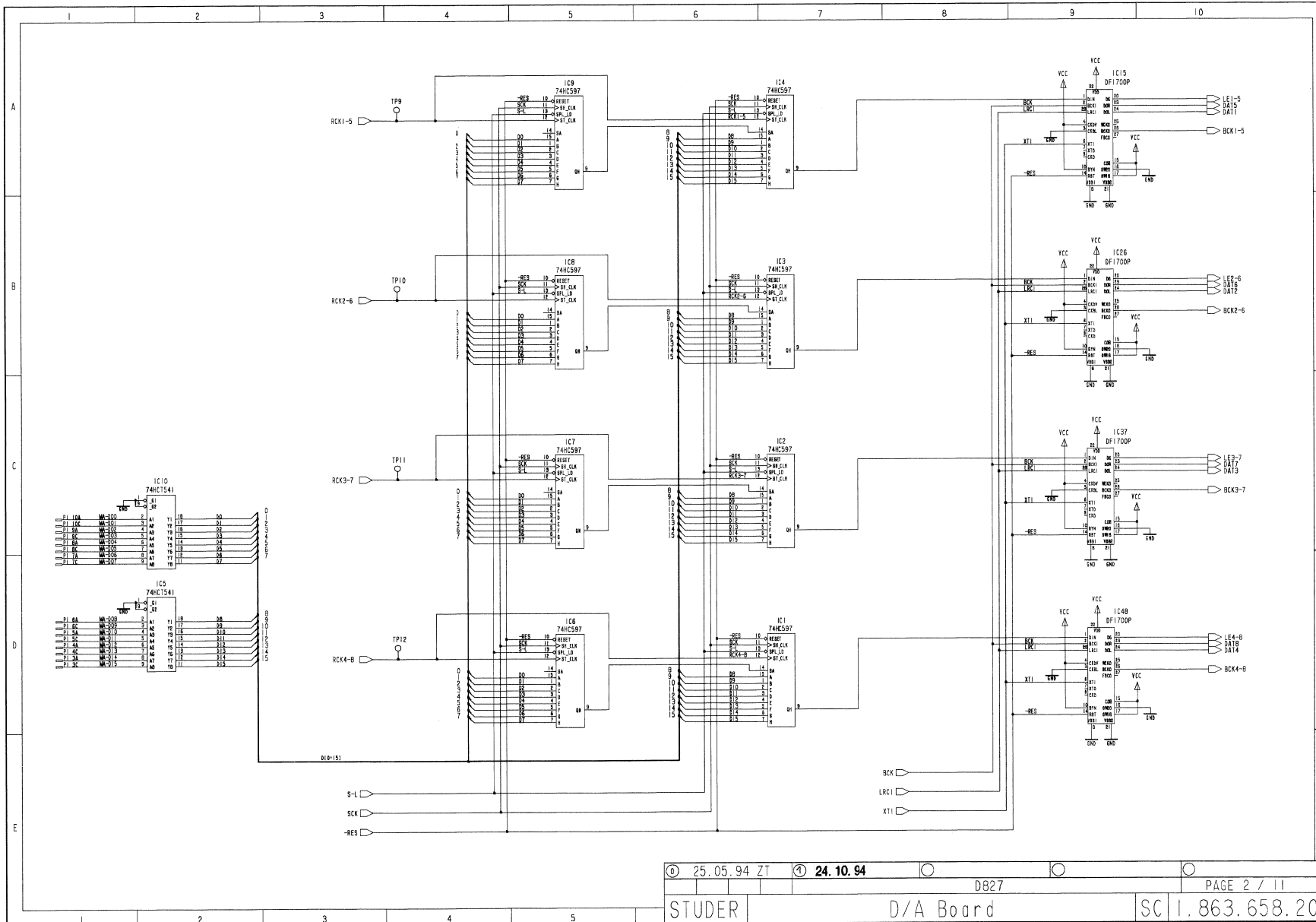
D / A BOARD 1.863.658.20 (OPTION)



|        |             |           |          |  |      |  |                 |  |  |
|--------|-------------|-----------|----------|--|------|--|-----------------|--|--|
| 0      | 25.05.94 ZT | 1         | 24.10.94 |  |      |  |                 |  |  |
| STUDER |             | D/A Board |          |  | D827 |  | PAGE 1 / 11     |  |  |
|        |             |           |          |  |      |  | SC 1.863.658.20 |  |  |

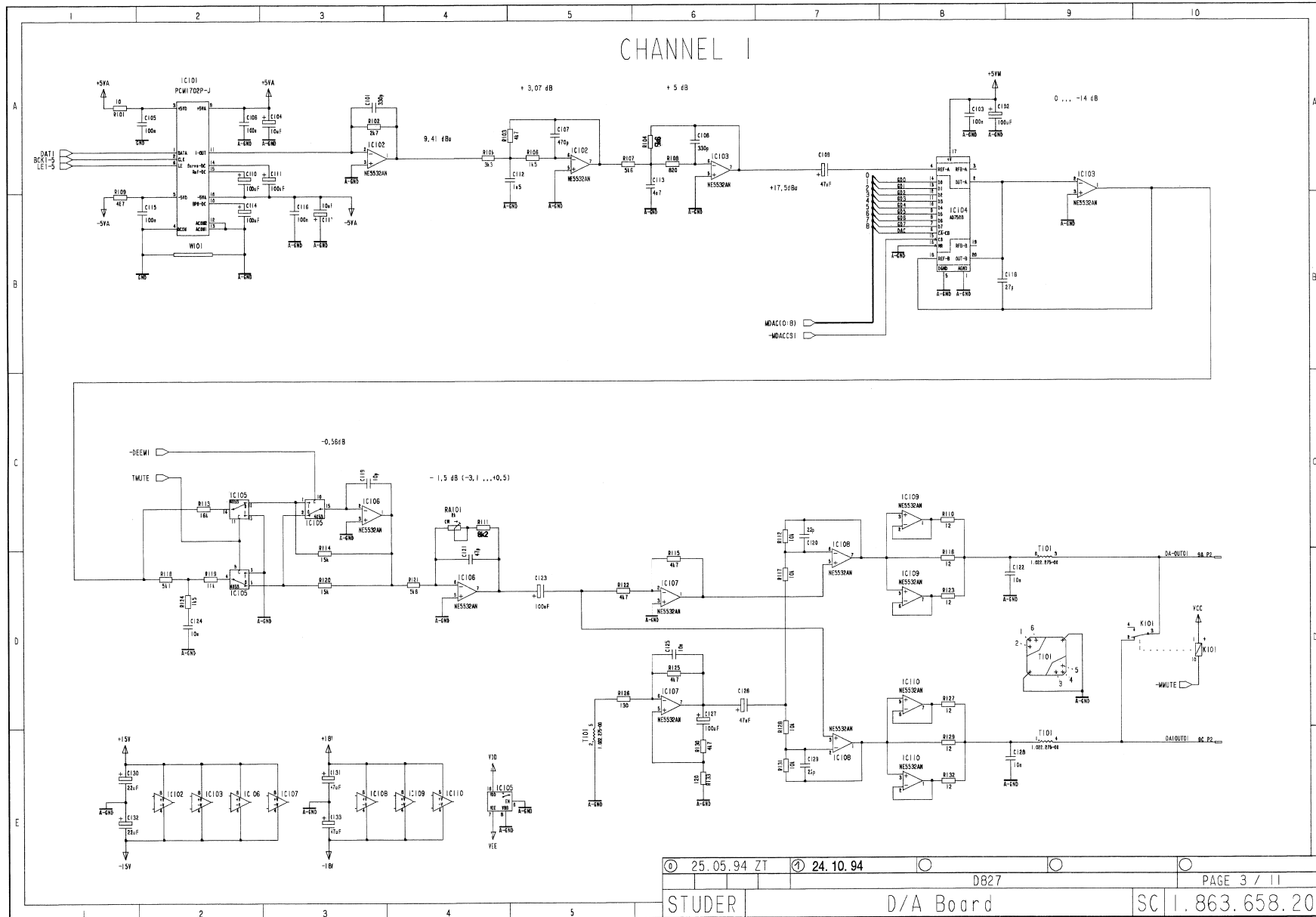


D / A BOARD 1.863.658.20 (OPTION)





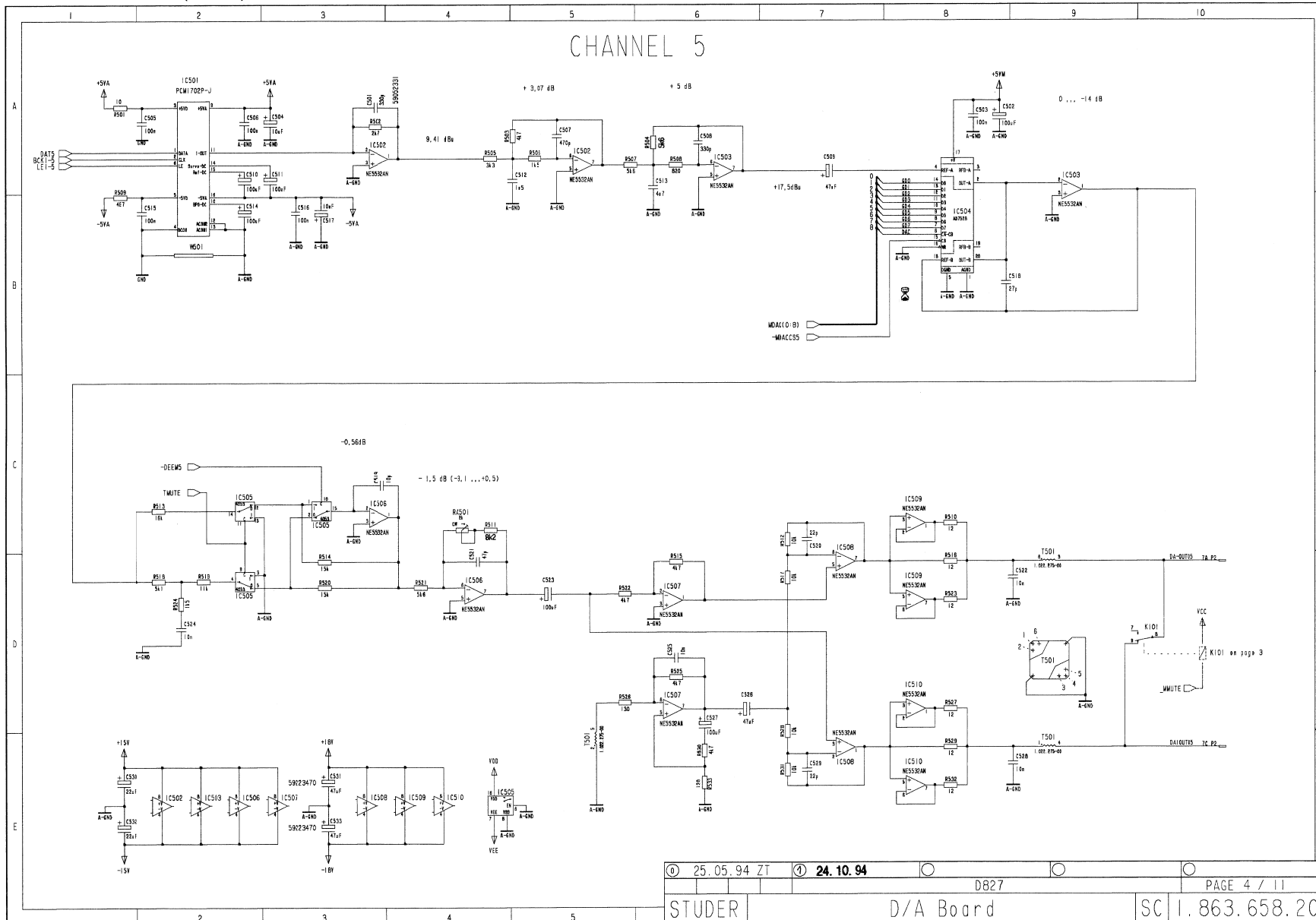
D / A BOARD 1.863.658.20 (OPTION)



|             |           |      |              |
|-------------|-----------|------|--------------|
| 25.05.94 ZT | 24.10.94  | D827 | PAGE 3 / 11  |
| STUDER      | D/A Board | SC   | 1.863.658.20 |



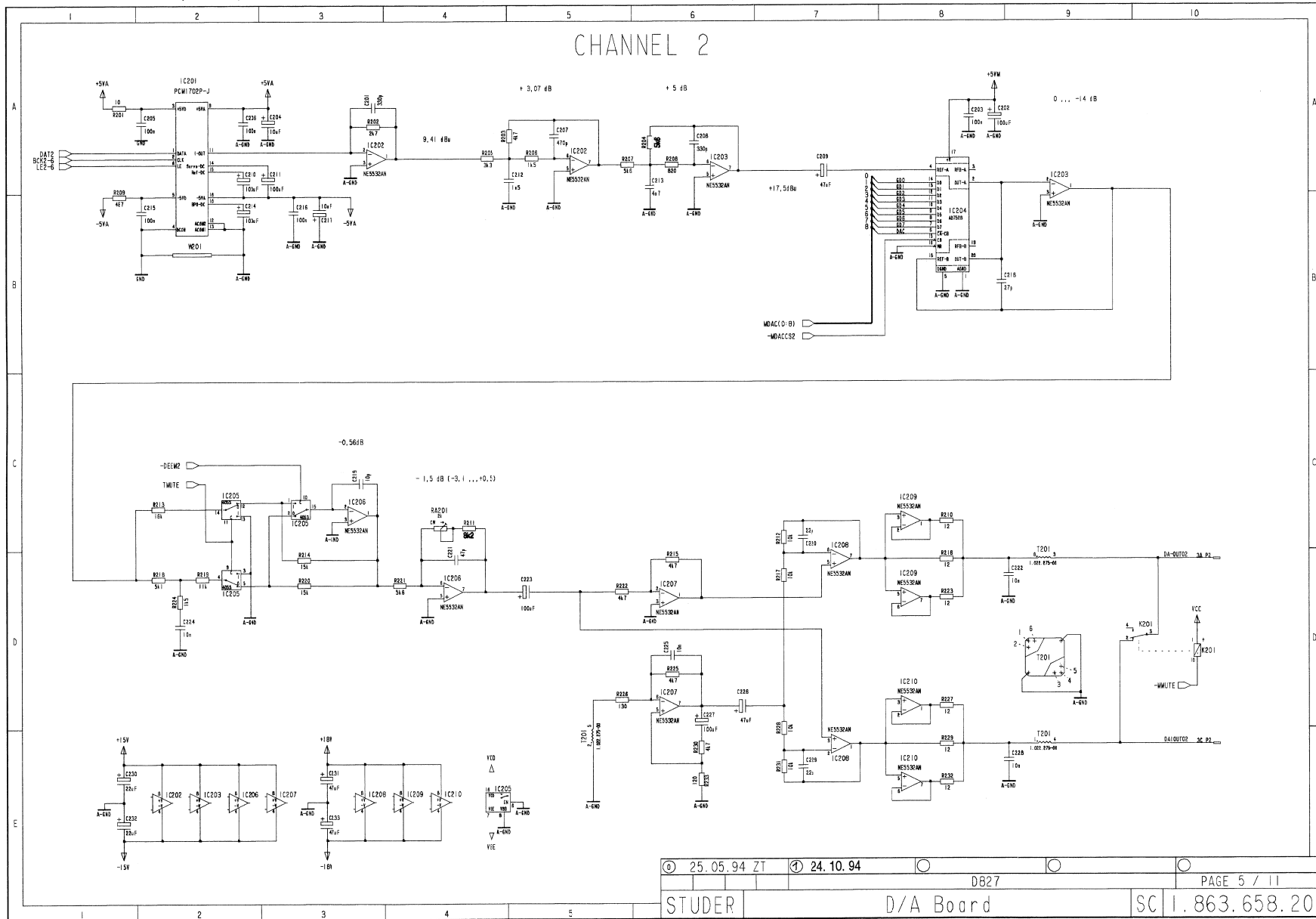
D / A BOARD 1.863.658.20 (OPTION)



STUDER D827 MCH



D / A BOARD 1.863.658.20 (OPTION)

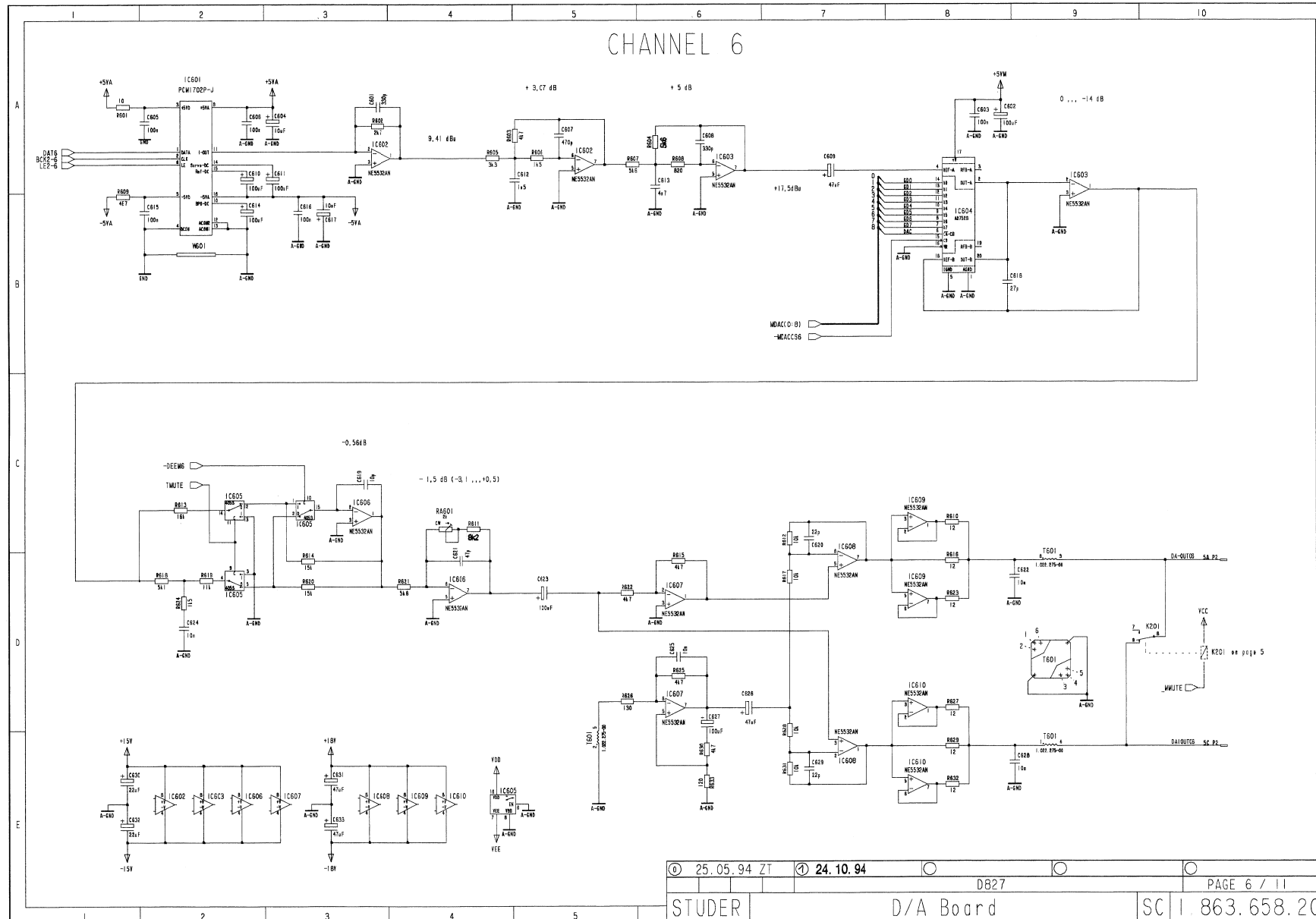


|             |           |                 |             |
|-------------|-----------|-----------------|-------------|
| 25.05.94 ZT | 24.10.94  | D827            | PAGE 5 / 11 |
| STUDER      | D/A Board | SC 1.863.658.20 |             |



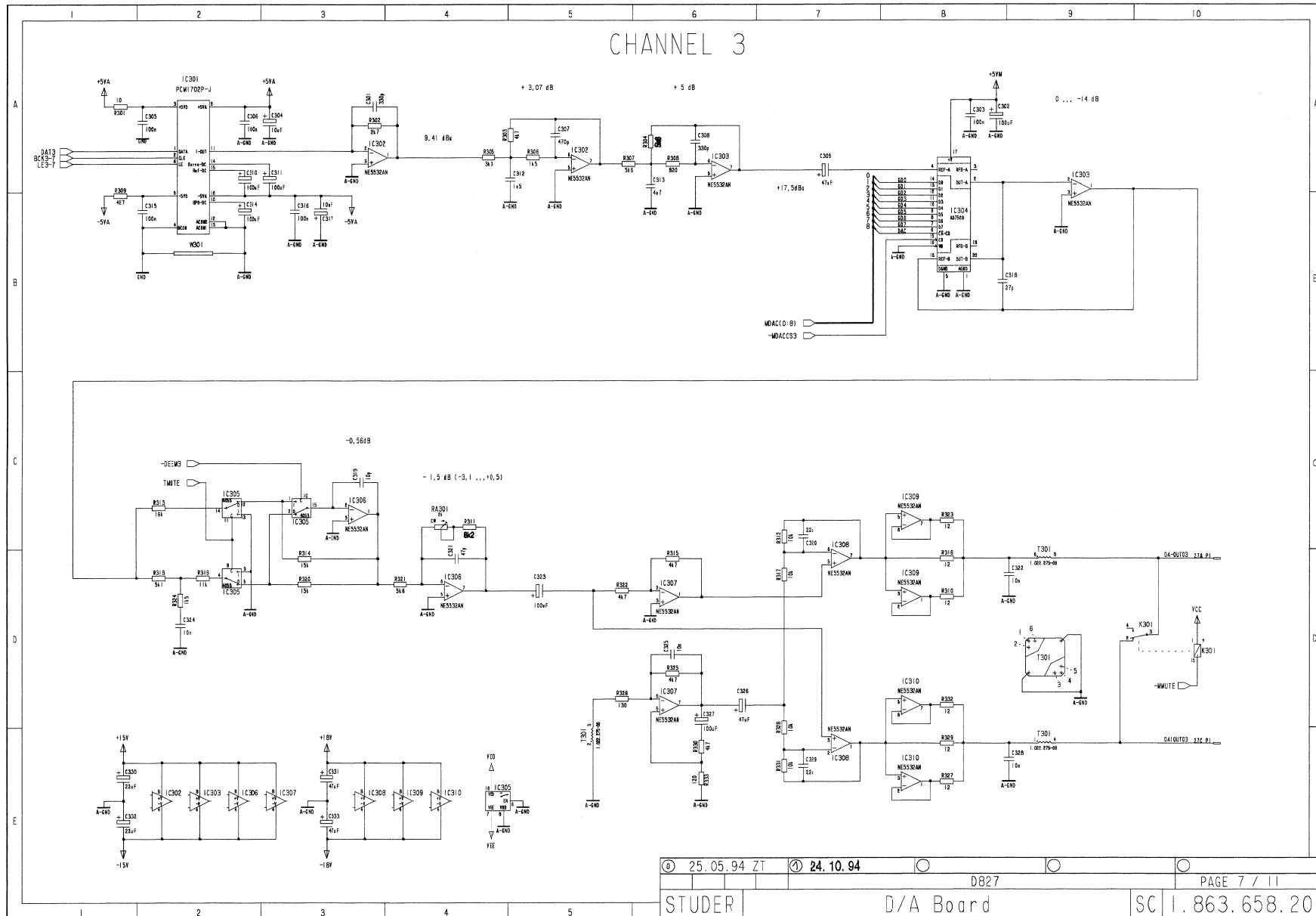
D / A BOARD 1.863.658.20 (OPTION)

CHANNEL 6



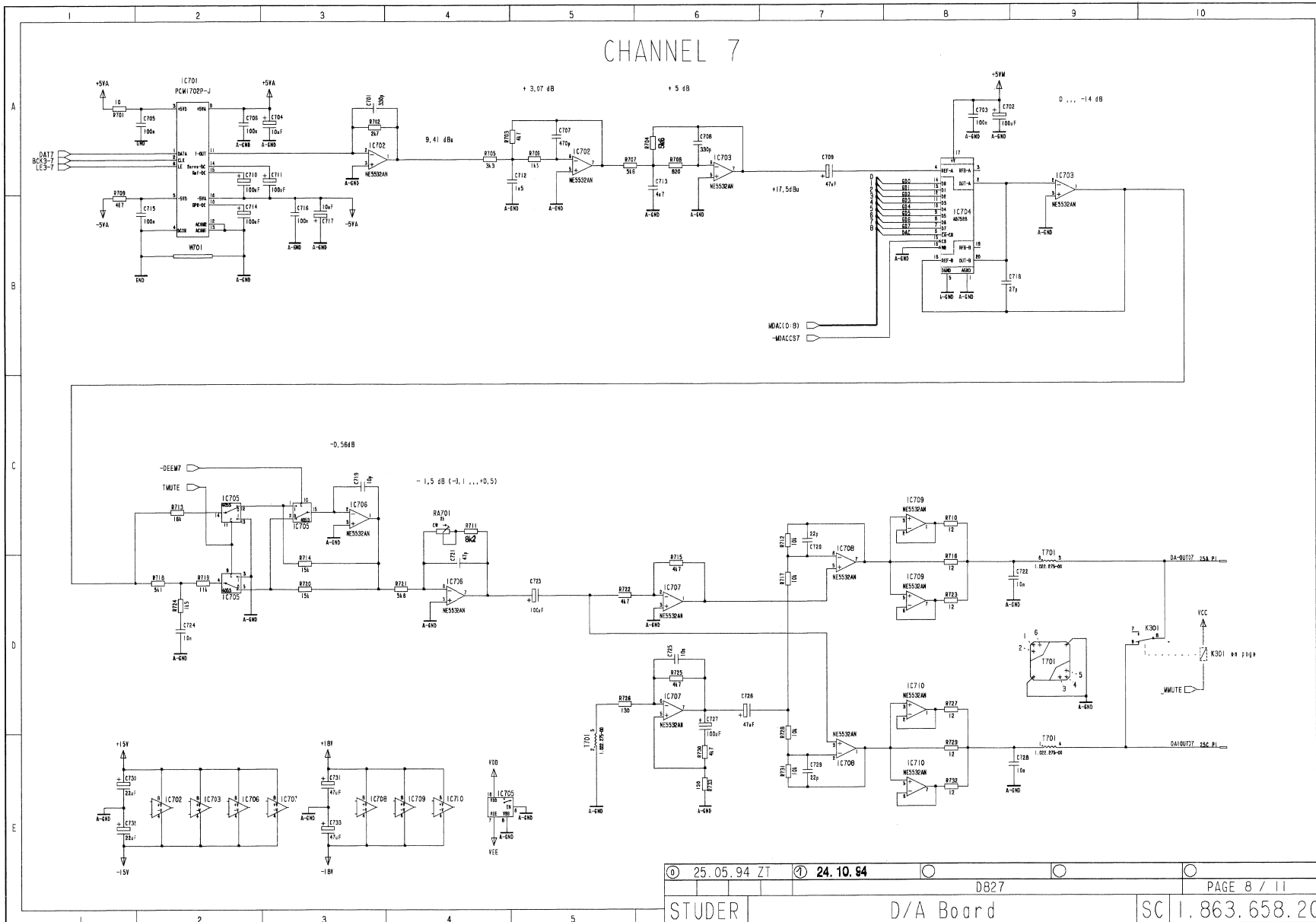


D / A BOARD 1.863.658.20 (OPTION)





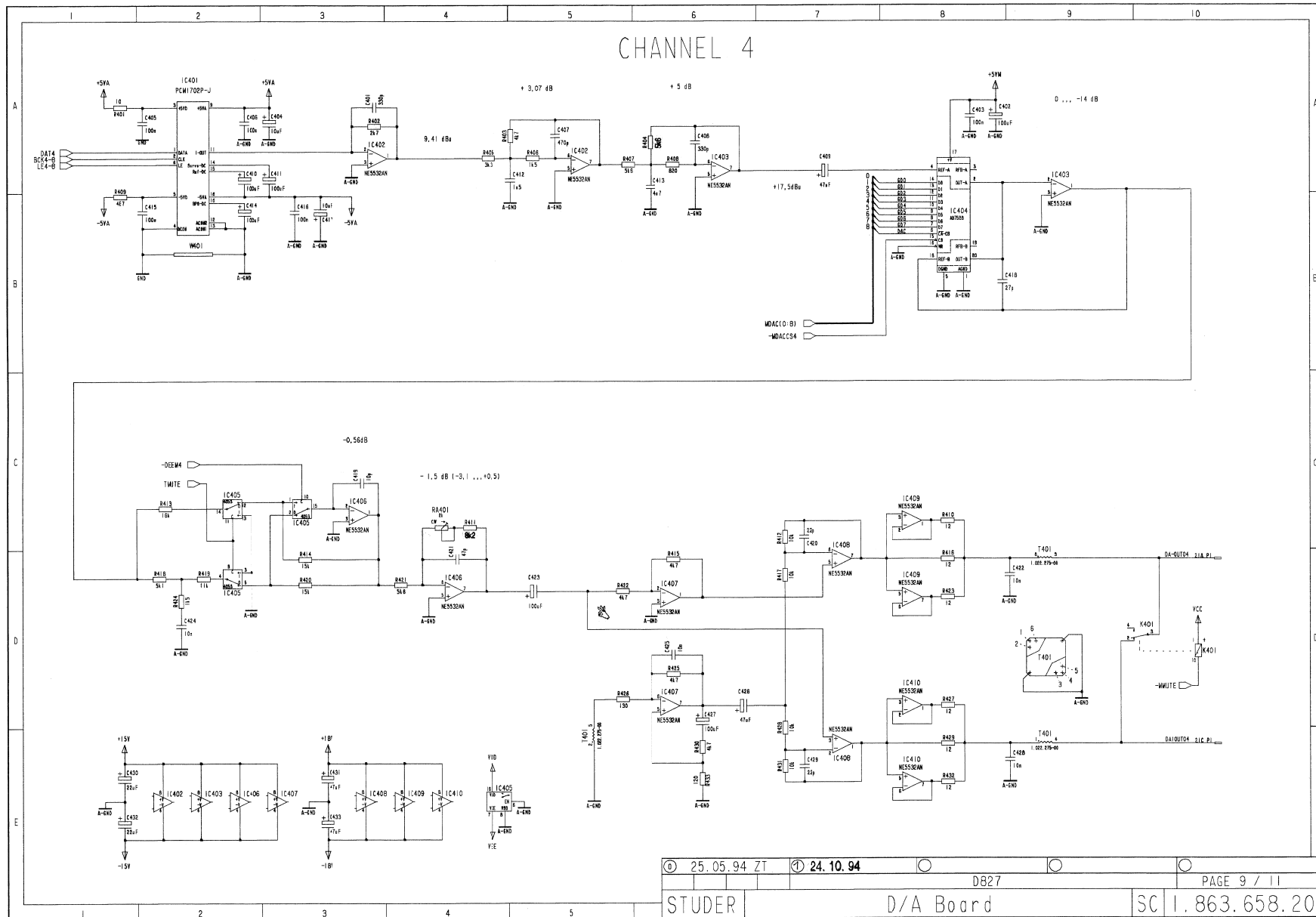
D / A BOARD 1.863.658.20 (OPTION)





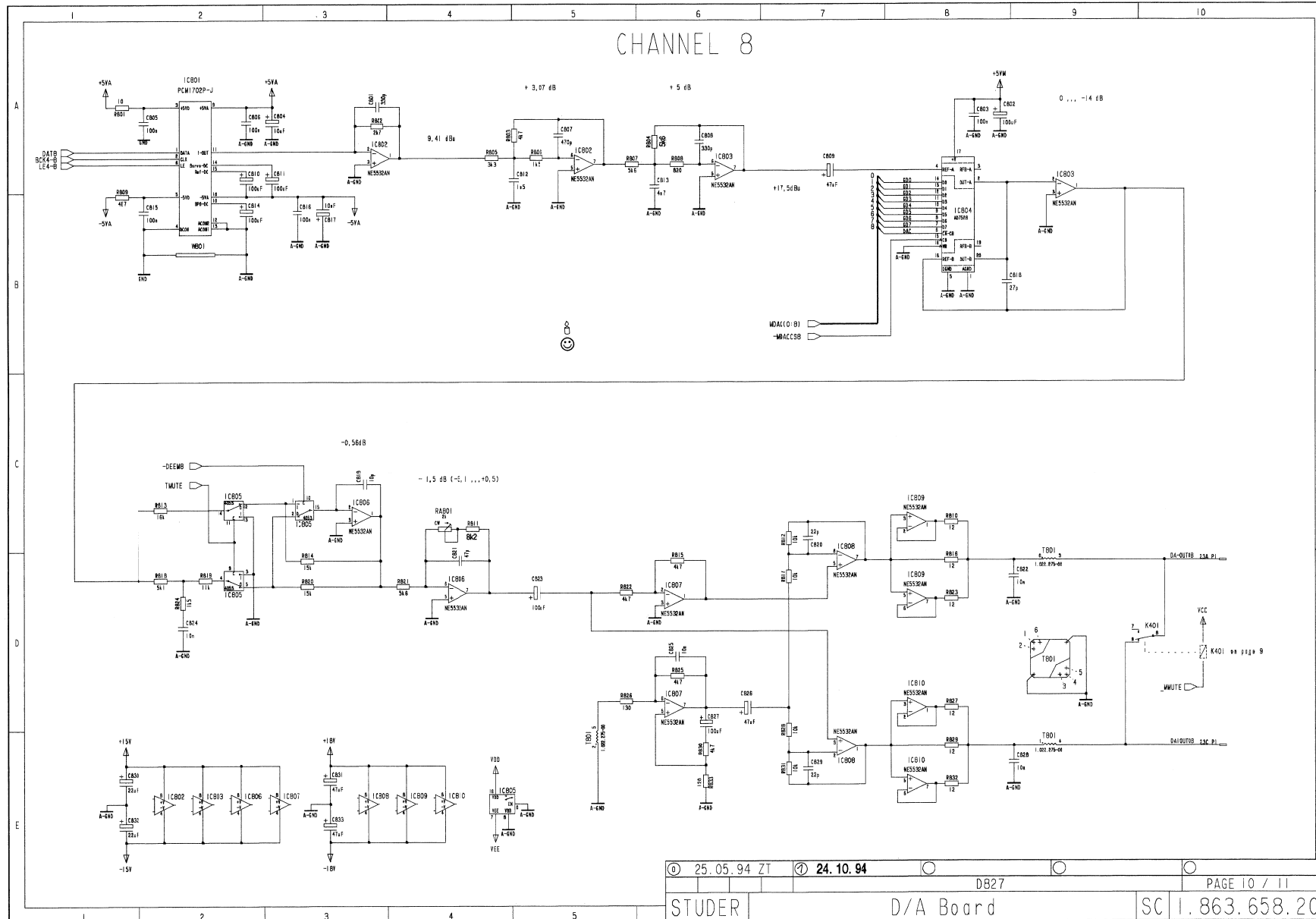


D / A BOARD 1.863.658.20 (OPTION)





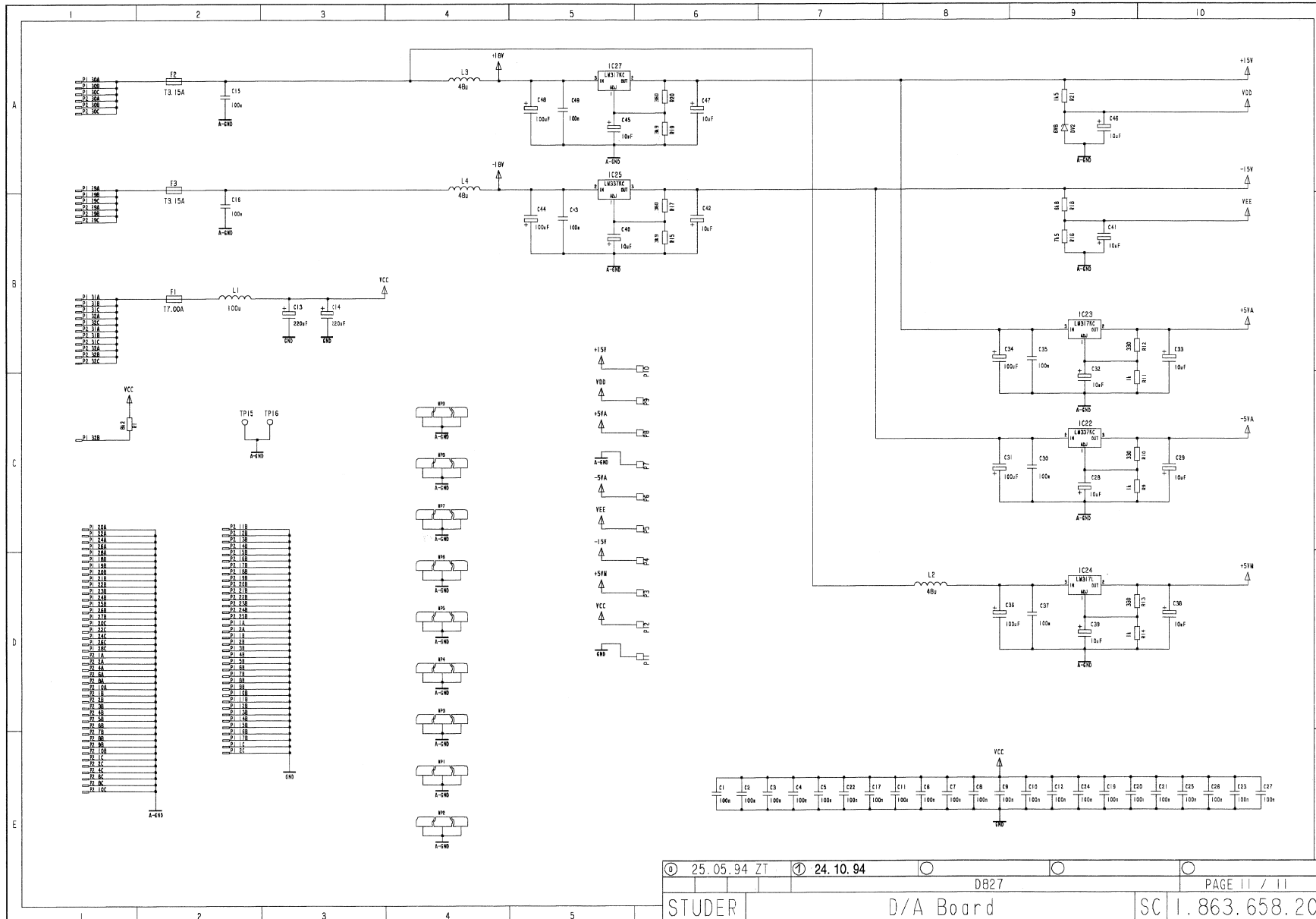
D / A BOARD 1.863.658.20 (OPTION)



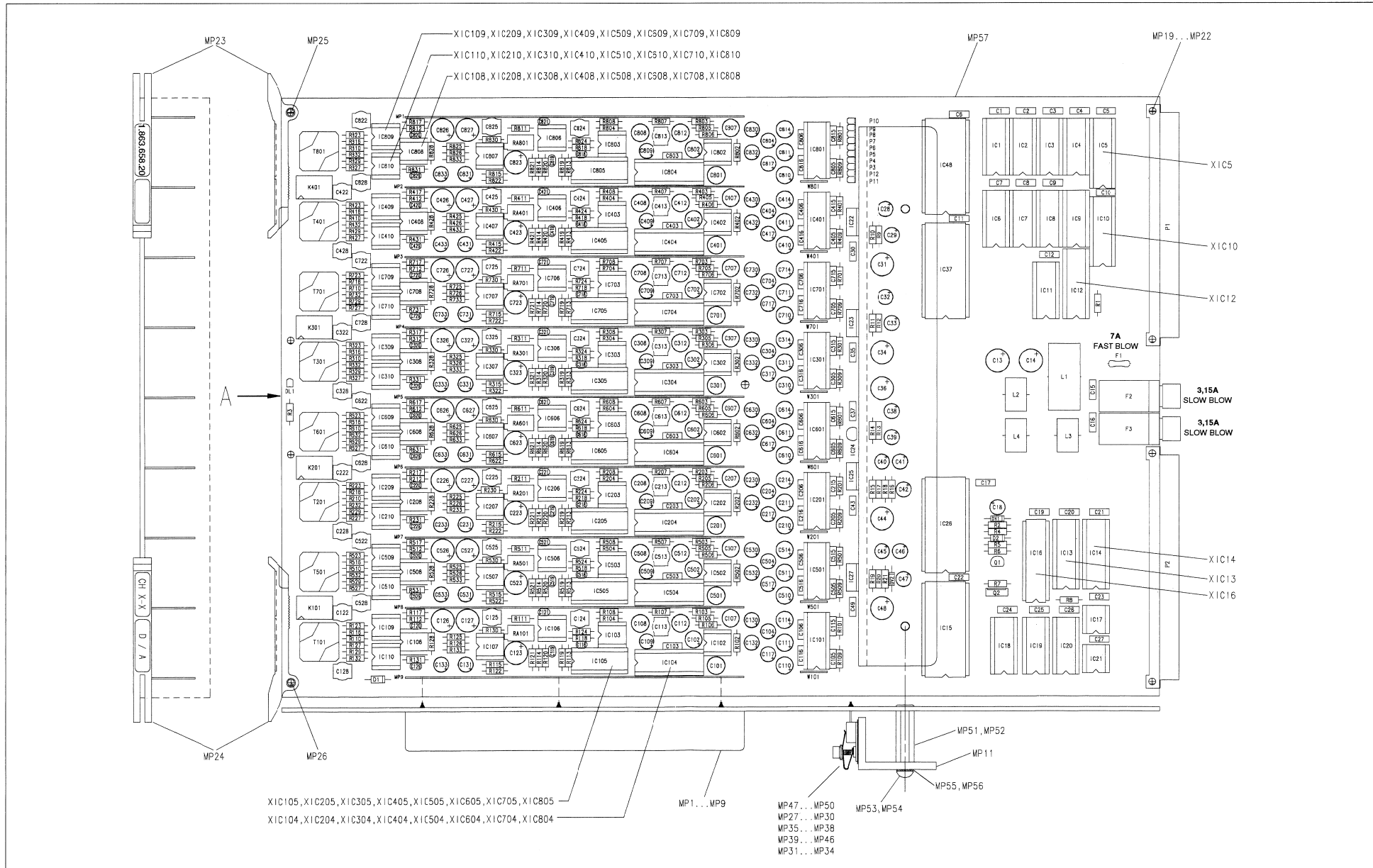
# STUDER D827 MCH



## D / A BOARD 1.863.658.20 (OPTION)



D / A BOARD 1.863.658.20 (OPTION)















D / A BOARD 1.863.658.20 (OPTION)

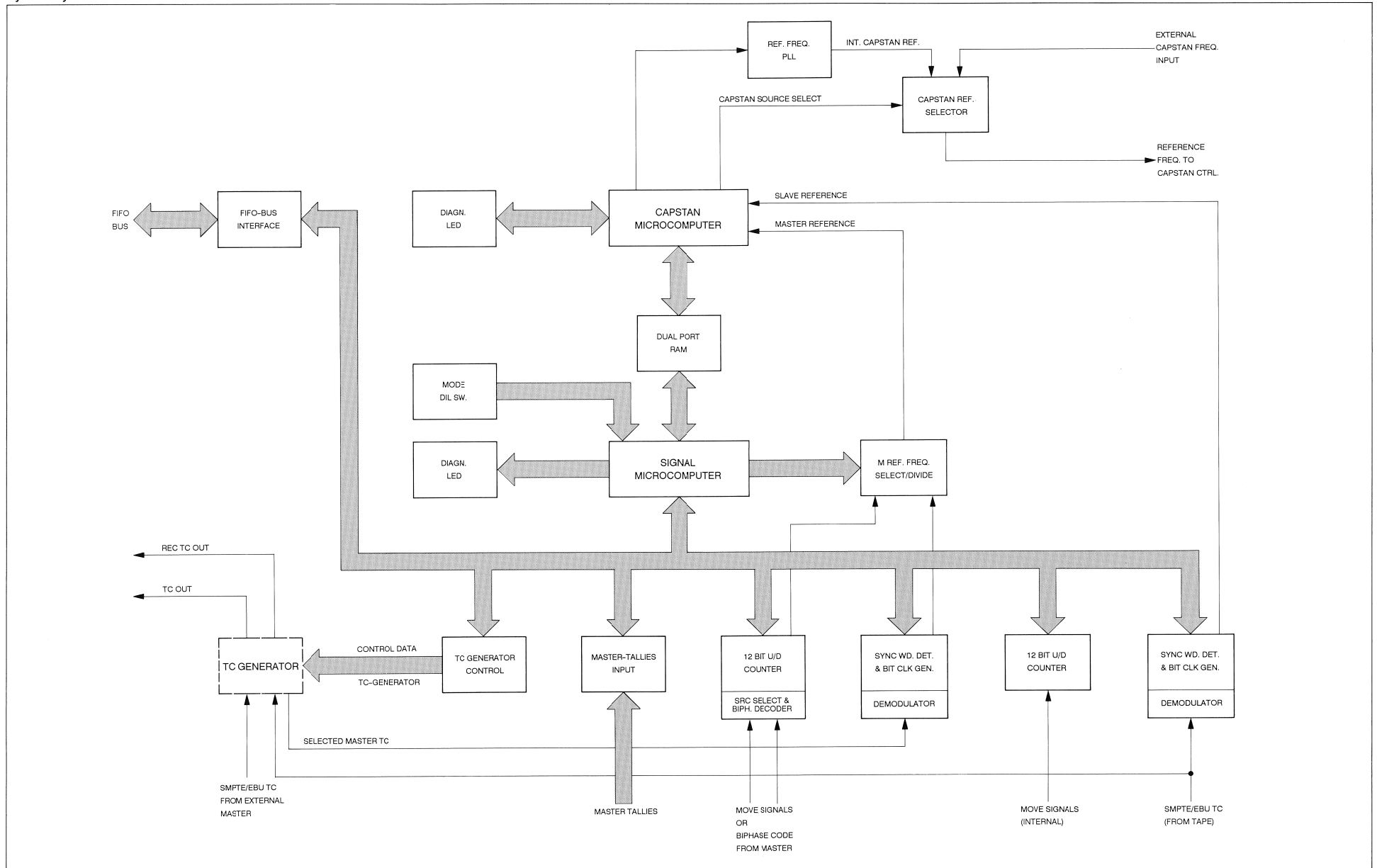
| Ad      | ..POS.. | ...REF.No... | DESCRIPTION | MANUFACTURER                          | Ad        | ..POS.. | ...REF.No... | DESCRIPTION    | MANUFACTURER |
|---------|---------|--------------|-------------|---------------------------------------|-----------|---------|--------------|----------------|--------------|
| R...    | 714     | 57.11.3153   | 15k         | 0.6W, 1%, 0207, MF                    |           |         |              |                |              |
| R...    | 715     | 57.11.3472   | 4k7         | 0.6W, 1%, 0207, MF                    | XF...     | 2       | 53.03.0118   | FUSE HOLDER    |              |
| R...    | 716     | 57.11.3120   | 12          | 0.6W, 1%, 0207, MF                    | XF...     | 3       | 53.03.0118   | FUSE HOLDER    |              |
| R...    | 717     | 57.11.3103   | 10k         | 0.6W, 1%, 0207, MF                    |           |         |              |                |              |
| R...    | 718     | 57.11.3512   | 9k1         | 0.6W, 1%, 0207, MF                    | XIC...    | 5       | 53.03.0165   | XIC DIL 20-POL |              |
| R...    | 719     | 57.11.3113   | 11k         | 0.6W, 1%, 0207, MF                    | XIC...    | 10      | 53.03.0165   | XIC DIL 20-POL |              |
| R...    | 720     | 57.11.3153   | 15k         | 0.6W, 1%, 0207, MF                    |           |         |              |                |              |
| R...    | 721     | 57.11.3562   | 5k6         | 0.6W, 1%, 0207, MF                    | XIC...    | 12      | 53.03.0165   | XIC DIL 20-POL |              |
| R...    | 722     | 57.11.3472   | 4k7         | 0.6W, 1%, 0207, MF                    | XIC...    | 13      | 53.03.0165   | XIC DIL 20-POL |              |
| R...    | 723     | 57.11.3120   | 12          | 0.6W, 1%, 0207, MF                    | XIC...    | 14      | 53.03.0165   | XIC DIL 20-POL |              |
| R...    | 724     | 57.11.3152   | 1k5         | 0.6W, 1%, 0207, MF                    | XIC...    | 16      | 53.03.0182   | XIC DIL 24-POL |              |
| R...    | 725     | 57.11.3472   | 4k7         | 0.6W, 1%, 0207, MF                    |           |         |              |                |              |
| R...    | 726     | 57.11.3131   | 130         | 0.6W, 1%, 0207, MF                    | 01 XIC... | 101     | 53.03.0168   | XIC DIL 16-POL |              |
| R...    | 727     | 57.11.3120   | 12          | 0.6W, 1%, 0207, MF                    | XIC...    | 104     | 53.03.0165   | XIC DIL 20-POL |              |
| R...    | 728     | 57.11.3103   | 10k         | 0.6W, 1%, 0207, MF                    | XIC...    | 105     | 53.03.0168   | XIC DIL 16-POL |              |
| R...    | 729     | 57.11.3120   | 12          | 0.6W, 1%, 0207, MF                    | XIC...    | 108     | 53.03.0166   | XIC DIL 8-POL  |              |
| R...    | 730     | 57.11.3472   | 4k7         | 0.6W, 1%, 0207, MF                    | XIC...    | 109     | 53.03.0166   | XIC DIL 8-POL  |              |
| R...    | 731     | 57.11.3103   | 10k         | 0.6W, 1%, 0207, MF                    | XIC...    | 110     | 53.03.0166   | XIC DIL 8-POL  |              |
| R...    | 732     | 57.11.3120   | 12          | 0.6W, 1%, 0207, MF                    |           |         |              |                |              |
| R...    | 733     | 57.11.3121   | 120         | 0.6W, 1%, 0207, MF                    | 01 XIC... | 201     | 53.03.0168   | XIC DIL 16-POL |              |
| R...    | 801     | 57.11.3100   | 10          | 0.6W, 1%, 0207, MF                    | XIC...    | 204     | 53.03.0165   | XIC DIL 20-POL |              |
| R...    | 802     | 57.11.3272   | 2k7         | 0.6W, 1%, 0207, MF                    | XIC...    | 205     | 53.03.0168   | XIC DIL 16-POL |              |
| R...    | 803     | 57.11.3472   | 4k7         | 0.6W, 1%, 0207, MF                    | XIC...    | 208     | 53.03.0166   | XIC DIL 8-POL  |              |
| R...    | 804     | 57.11.3103   | 10k         | 0.6W, 1%, 0207, MF                    | XIC...    | 209     | 53.03.0166   | XIC DIL 8-POL  |              |
| 01 R... | 804     | 57.11.3562   | 5k6         | 0.6W, 1%, 0207, MF                    | XIC...    | 210     | 53.03.0166   | XIC DIL 8-POL  |              |
| R...    | 805     | 57.11.3332   | 3k3         | 0.6W, 1%, 0207, MF                    | 01 XIC... | 301     | 53.03.0168   | XIC DIL 16-POL |              |
| R...    | 806     | 57.11.3152   | 1k5         | 0.6W, 1%, 0207, MF                    | XIC...    | 304     | 53.03.0165   | XIC DIL 20-POL |              |
| R...    | 807     | 57.11.3562   | 5k6         | 0.6W, 1%, 0207, MF                    | XIC...    | 305     | 53.03.0168   | XIC DIL 16-POL |              |
| R...    | 808     | 57.11.3821   | 820         | 0.6W, 1%, 0207, MF                    | XIC...    | 308     | 53.03.0166   | XIC DIL 8-POL  |              |
| R...    | 809     | 57.11.3479   | 4.7         | 0.6W, 1%, 0207, MF                    | XIC...    | 309     | 53.03.0166   | XIC DIL 8-POL  |              |
| R...    | 810     | 57.11.3120   | 12          | 0.6W, 1%, 0207, MF                    | XIC...    | 310     | 53.03.0166   | XIC DIL 8-POL  |              |
| 01 R... | 811     | 57.11.3392   | 3k9         | 0.6W, 1%, 0207, MF                    | 01 XIC... | 401     | 53.03.0168   | XIC DIL 16-POL |              |
| R...    | 811     | 57.11.3822   | 8k2         | 0.6W, 1%, 0207, MF                    | XIC...    | 404     | 53.03.0165   | XIC DIL 20-POL |              |
| R...    | 812     | 57.11.3103   | 10k         | 0.6W, 1%, 0207, MF                    | XIC...    | 405     | 53.03.0168   | XIC DIL 16-POL |              |
| R...    | 813     | 57.11.3163   | 16k         | 0.6W, 1%, 0207, MF                    | XIC...    | 408     | 53.03.0166   | XIC DIL 8-POL  |              |
| R...    | 814     | 57.11.3153   | 15k         | 0.6W, 1%, 0207, MF                    | XIC...    | 409     | 53.03.0166   | XIC DIL 8-POL  |              |
| R...    | 815     | 57.11.3472   | 4k7         | 0.6W, 1%, 0207, MF                    | XIC...    | 410     | 53.03.0166   | XIC DIL 8-POL  |              |
| R...    | 816     | 57.11.3120   | 12          | 0.6W, 1%, 0207, MF                    | 01 XIC... | 501     | 53.03.0168   | XIC DIL 16-POL |              |
| R...    | 817     | 57.11.3103   | 10k         | 0.6W, 1%, 0207, MF                    | XIC...    | 504     | 53.03.0165   | XIC DIL 20-POL |              |
| R...    | 818     | 57.11.3512   | 5k1         | 0.6W, 1%, 0207, MF                    | XIC...    | 505     | 53.03.0168   | XIC DIL 16-POL |              |
| R...    | 819     | 57.11.3113   | 11k         | 0.6W, 1%, 0207, MF                    | XIC...    | 508     | 53.03.0166   | XIC DIL 8-POL  |              |
| R...    | 820     | 57.11.3153   | 15k         | 0.6W, 1%, 0207, MF                    | XIC...    | 509     | 53.03.0166   | XIC DIL 8-POL  |              |
| R...    | 821     | 57.11.3562   | 5k6         | 0.6W, 1%, 0207, MF                    | XIC...    | 510     | 53.03.0166   | XIC DIL 8-POL  |              |
| R...    | 822     | 57.11.3472   | 4k7         | 0.6W, 1%, 0207, MF                    | 01 XIC... | 601     | 53.03.0168   | XIC DIL 16-POL |              |
| R...    | 823     | 57.11.3120   | 12          | 0.6W, 1%, 0207, MF                    | XIC...    | 604     | 53.03.0165   | XIC DIL 20-POL |              |
| R...    | 824     | 57.11.3152   | 1k5         | 0.6W, 1%, 0207, MF                    | XIC...    | 605     | 53.03.0168   | XIC DIL 16-POL |              |
| R...    | 825     | 57.11.3472   | 4k7         | 0.6W, 1%, 0207, MF                    | XIC...    | 608     | 53.03.0166   | XIC DIL 8-POL  |              |
| R...    | 826     | 57.11.3131   | 130         | 0.6W, 1%, 0207, MF                    | XIC...    | 609     | 53.03.0166   | XIC DIL 8-POL  |              |
| R...    | 827     | 57.11.3120   | 12          | 0.6W, 1%, 0207, MF                    | XIC...    | 610     | 53.03.0166   | XIC DIL 8-POL  |              |
| R...    | 828     | 57.11.3103   | 10k         | 0.6W, 1%, 0207, MF                    | 01 XIC... | 701     | 53.03.0168   | XIC DIL 16-POL |              |
| R...    | 829     | 57.11.3120   | 12          | 0.6W, 1%, 0207, MF                    | XIC...    | 704     | 53.03.0165   | XIC DIL 20-POL |              |
| R...    | 830     | 57.11.3472   | 4k7         | 0.6W, 1%, 0207, MF                    | XIC...    | 705     | 53.03.0168   | XIC DIL 16-POL |              |
| R...    | 831     | 57.11.3103   | 10k         | 0.6W, 1%, 0207, MF                    | XIC...    | 708     | 53.03.0166   | XIC DIL 8-POL  |              |
| R...    | 832     | 57.11.3120   | 12          | 0.6W, 1%, 0207, MF                    | XIC...    | 709     | 53.03.0166   | XIC DIL 8-POL  |              |
| R...    | 833     | 57.11.3121   | 120         | 0.6W, 1%, 0207, MF                    | XIC...    | 710     | 53.03.0166   | XIC DIL 8-POL  |              |
| RA...   | 101     | 58.05.0202   | 2k          | 0.5W, 10%, 22-TURN, SCREM HORIZ.      | XIC...    | 801     | 53.03.0168   | XIC DIL 16-POL |              |
| RA...   | 201     | 58.05.0202   | 2k          | 0.5W, 10%, 22-TURN, SCREM HORIZ.      | XIC...    | 804     | 53.03.0165   | XIC DIL 20-POL |              |
| RA...   | 301     | 58.05.0202   | 2k          | 0.5W, 10%, 22-TURN, SCREM HORIZ.      | XIC...    | 805     | 53.03.0168   | XIC DIL 16-POL |              |
| RA...   | 401     | 58.05.0202   | 2k          | 0.5W, 10%, 22-TURN, SCREM HORIZ.      | XIC...    | 808     | 53.03.0166   | XIC DIL 8-POL  |              |
| RA...   | 501     | 58.05.0202   | 2k          | 0.5W, 10%, 22-TURN, SCREM HORIZ.      | XIC...    | 809     | 53.03.0166   | XIC DIL 8-POL  |              |
| RA...   | 601     | 58.05.0202   | 2k          | 0.5W, 10%, 22-TURN, SCREM HORIZ.      | XIC...    | 810     | 53.03.0166   | XIC DIL 8-POL  |              |
| RA...   | 701     | 58.05.0202   | 2k          | 0.5W, 10%, 22-TURN, SCREM HORIZ.      |           |         |              |                |              |
| RA...   | 801     | 58.05.0202   | 2k          | 0.5W, 10%, 22-TURN, SCREM HORIZ.      |           |         |              |                |              |
| T...    | 101     | 1.022.275.00 |             | TRIFILARTRAFU OUTPUT                  |           |         |              |                |              |
| T...    | 201     | 1.022.275.00 |             | TRIFILARTRAFU OUTPUT                  |           |         |              |                |              |
| T...    | 301     | 1.022.275.00 |             | TRIFILARTRAFU OUTPUT                  |           |         |              |                |              |
| T...    | 401     | 1.022.275.00 |             | TRIFILARTRAFU OUTPUT                  |           |         |              |                |              |
| T...    | 501     | 1.022.275.00 |             | TRIFILARTRAFU OUTPUT                  |           |         |              |                |              |
| T...    | 601     | 1.022.275.00 |             | TRIFILARTRAFU OUTPUT                  |           |         |              |                |              |
| T...    | 701     | 1.022.275.00 |             | TRIFILARTRAFU OUTPUT                  |           |         |              |                |              |
| T...    | 801     | 1.022.275.00 |             | TRIFILARTRAFU OUTPUT                  |           |         |              |                |              |
| TP...   | 1       | 54.02.0320   | 1-P         | MALE, STR., 54020320, FLATPIN 2.8*0.8 |           |         |              |                |              |
| TP...   | 2       | 54.02.0320   | 1-P         | MALE, STR., 54020320, FLATPIN 2.8*0.8 |           |         |              |                |              |
| TP...   | 3       | 54.02.0320   | 1-P         | MALE, STR., 54020320, FLATPIN 2.8*0.8 |           |         |              |                |              |
| TP...   | 4       | 54.02.0320   | 1-P         | MALE, STR., 54020320, FLATPIN 2.8*0.8 |           |         |              |                |              |
| TP...   | 5       | 54.02.0320   | 1-P         | MALE, STR., 54020320, FLATPIN 2.8*0.8 |           |         |              |                |              |
| TP...   | 6       | 54.02.0320   | 1-P         | MALE, STR., 54020320, FLATPIN 2.8*0.8 |           |         |              |                |              |
| TP...   | 7       | 54.02.0320   | 1-P         | MALE, STR., 54020320, FLATPIN 2.8*0.8 |           |         |              |                |              |
| TP...   | 8       | 54.02.0320   | 1-P         | MALE, STR., 54020320, FLATPIN 2.8*0.8 |           |         |              |                |              |
| TP...   | 9       | 54.02.0320   | 1-P         | MALE, STR., 54020320, FLATPIN 2.8*0.8 |           |         |              |                |              |
| TP...   | 10      | 54.02.0320   | 1-P         | MALE, STR., 54020320, FLATPIN 2.8*0.8 |           |         |              |                |              |
| TP...   | 11      | 54.02.0320   | 1-P         | MALE, STR., 54020320, FLATPIN 2.8*0.8 |           |         |              |                |              |
| TP...   | 12      | 54.02.0320   | 1-P         | MALE, STR., 54020320, FLATPIN 2.8*0.8 |           |         |              |                |              |
| TP...   | 13      | 54.02.0320   | 1-P         | MALE, STR., 54020320, FLATPIN 2.8*0.8 |           |         |              |                |              |
| TP...   | 14      | 54.02.0320   | 1-P         | MALE, STR., 54020320, FLATPIN 2.8*0.8 |           |         |              |                |              |
| TP...   | 15      | 54.02.0320   | 1-P         | MALE, STR., 54020320, FLATPIN 2.8*0.8 |           |         |              |                |              |
| TP...   | 16      | 54.02.0320   | 1-P         | MALE, STR., 54020320, FLATPIN 2.8*0.8 |           |         |              |                |              |
| W...    | 101     | 64.01.0106   |             | SCHALTDRAHT SN D 0.6                  |           |         |              |                |              |
| W...    | 201     | 64.01.0106   |             | SCHALTDRAHT SN D 0.6                  |           |         |              |                |              |
| W...    | 301     | 64.01.0106   |             | SCHALTDRAHT SN D 0.6                  |           |         |              |                |              |
| W...    | 401     | 64.01.0106   |             | SCHALTDRAHT SN D 0.6                  |           |         |              |                |              |
| W...    | 501     | 64.01.0106   |             | SCHALTDRAHT SN D 0.6                  |           |         |              |                |              |
| W...    | 601     | 64.01.0106   |             | SCHALTDRAHT SN D 0.6                  |           |         |              |                |              |
| W...    | 701     | 64.01.0106   |             | SCHALTDRAHT SN D 0.6                  |           |         |              |                |              |
| W...    | 801     | 64.01.0106   |             | SCHALTDRAHT SN D 0.6                  |           |         |              |                |              |

1.863.658.20 D/A BOARD ZT 94-08-0901

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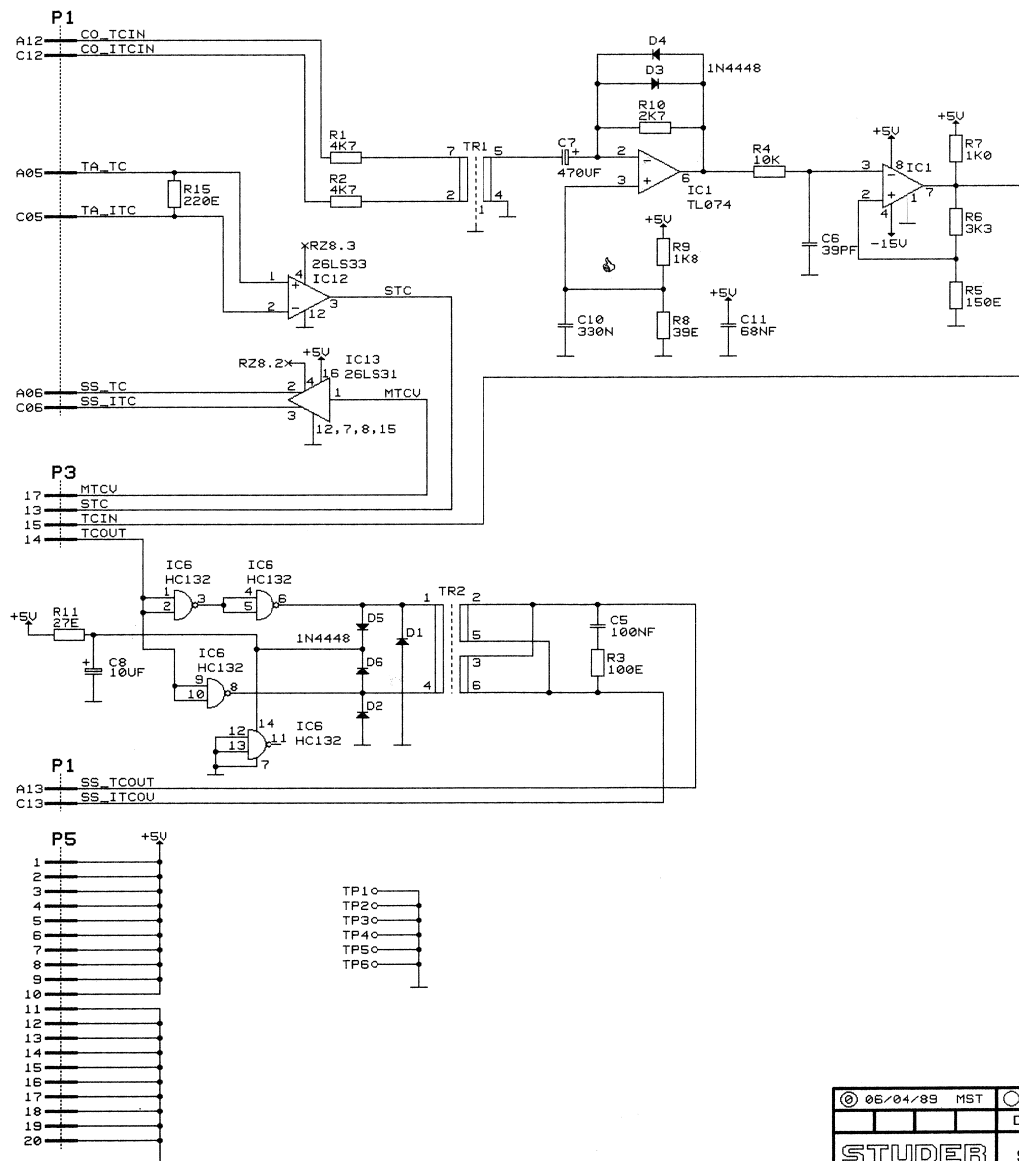
STUDER D827 MCH

BLOCK DIAGRAM  
System Synchronizer TC Board 1.863.659





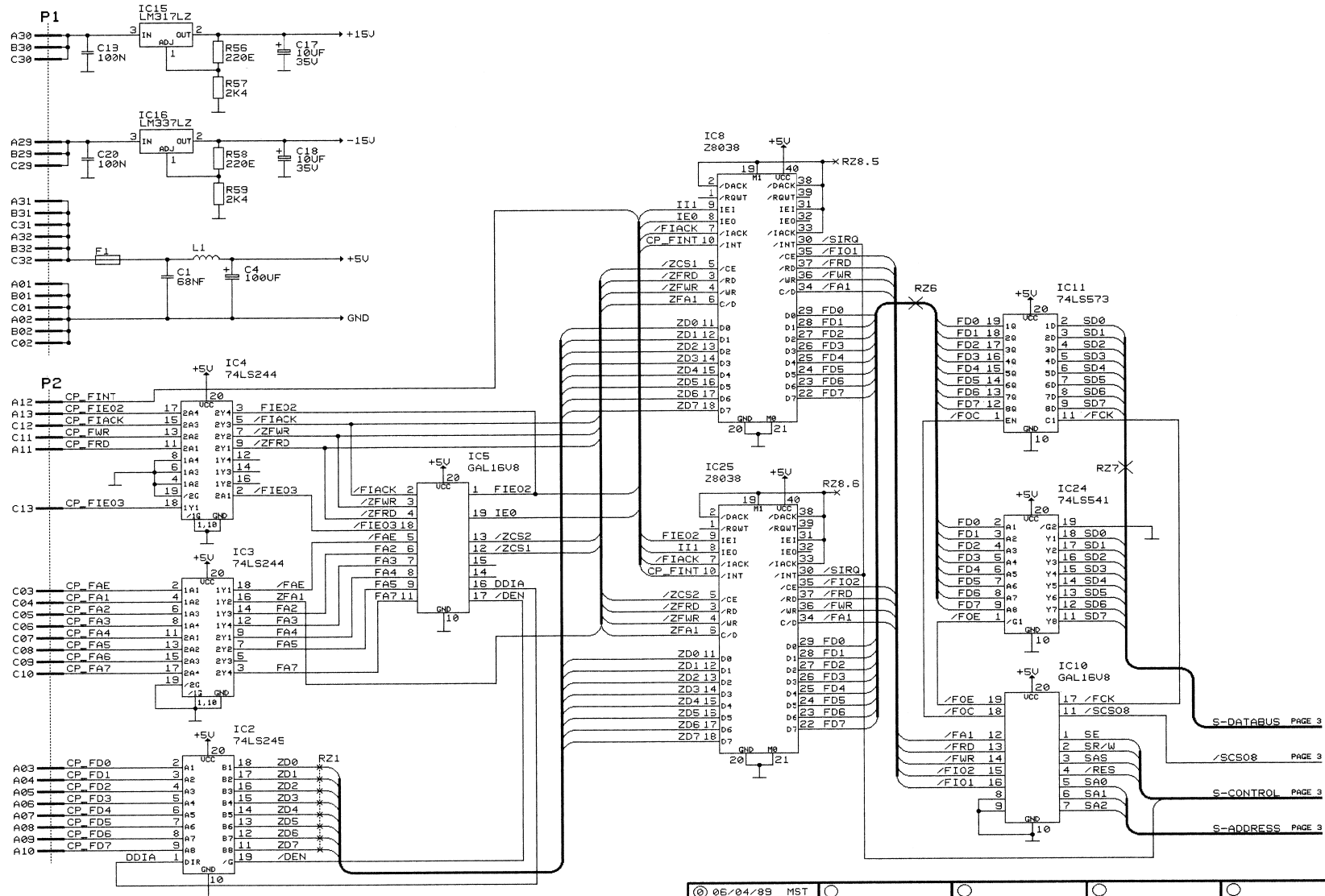
SYSTEM SYNCHRONIZER TC BOARD 1.863.659.21



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| D827 MCH MULTICHANNEL |                                     | PAGE 1 OF 9 |              |
| <b>STUDER</b>         | <b>SYSTEM SYNCHRONIZER TC BOARD</b> | SC          | 1.863.659.21 |



SYSTEM SYNCHRONIZER TC BOARD 1.863.659.21

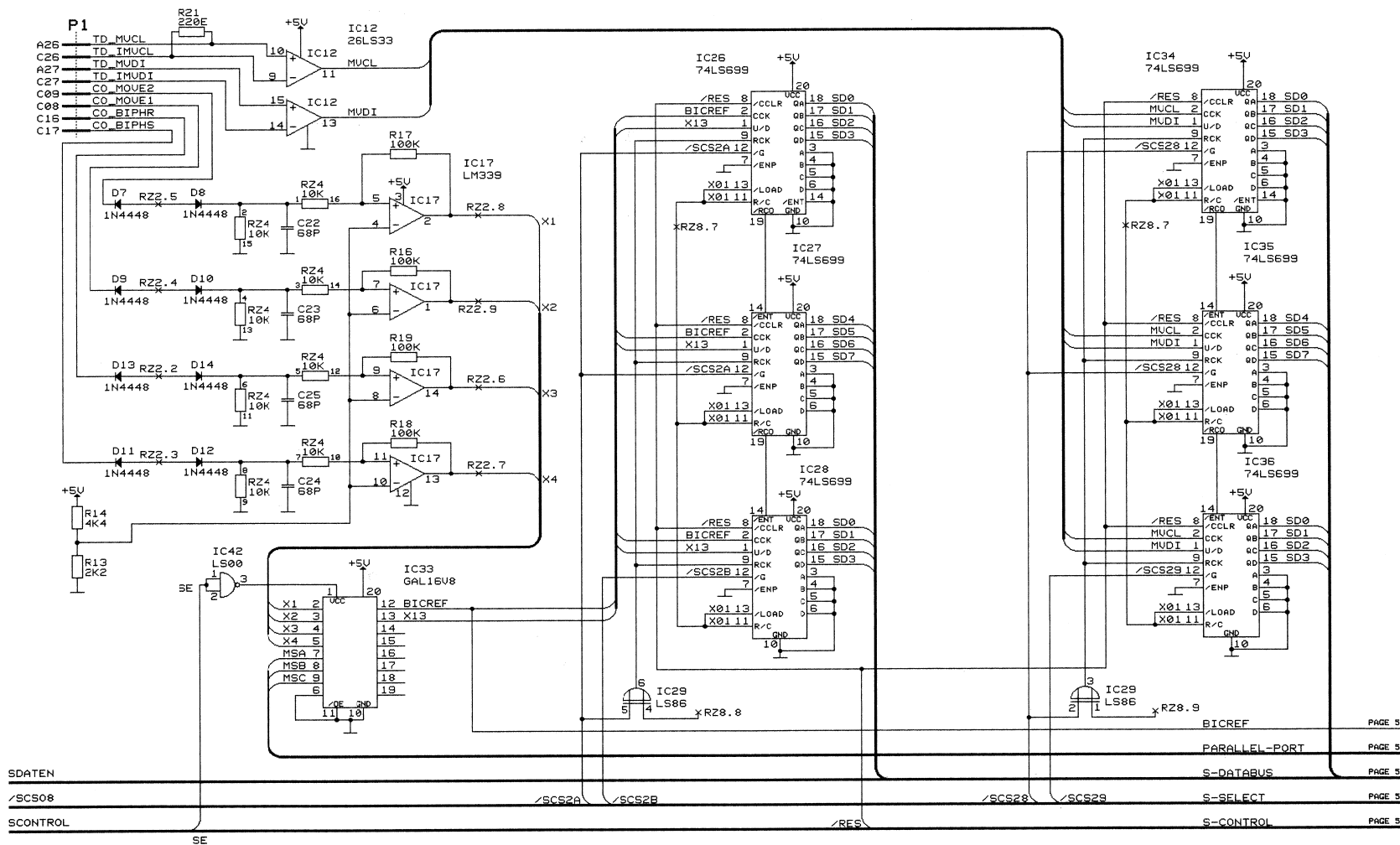


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 /SCS08 PAGE 3  
 S-CONTROL PAGE 3  
 S-ADDRESS PAGE 3

|                |                                     |                        |
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| <b>STUDER</b>  | <b>SYSTEM SYNCHRONIZER TC BOARD</b> | <b>SC 1.863.659.21</b> |

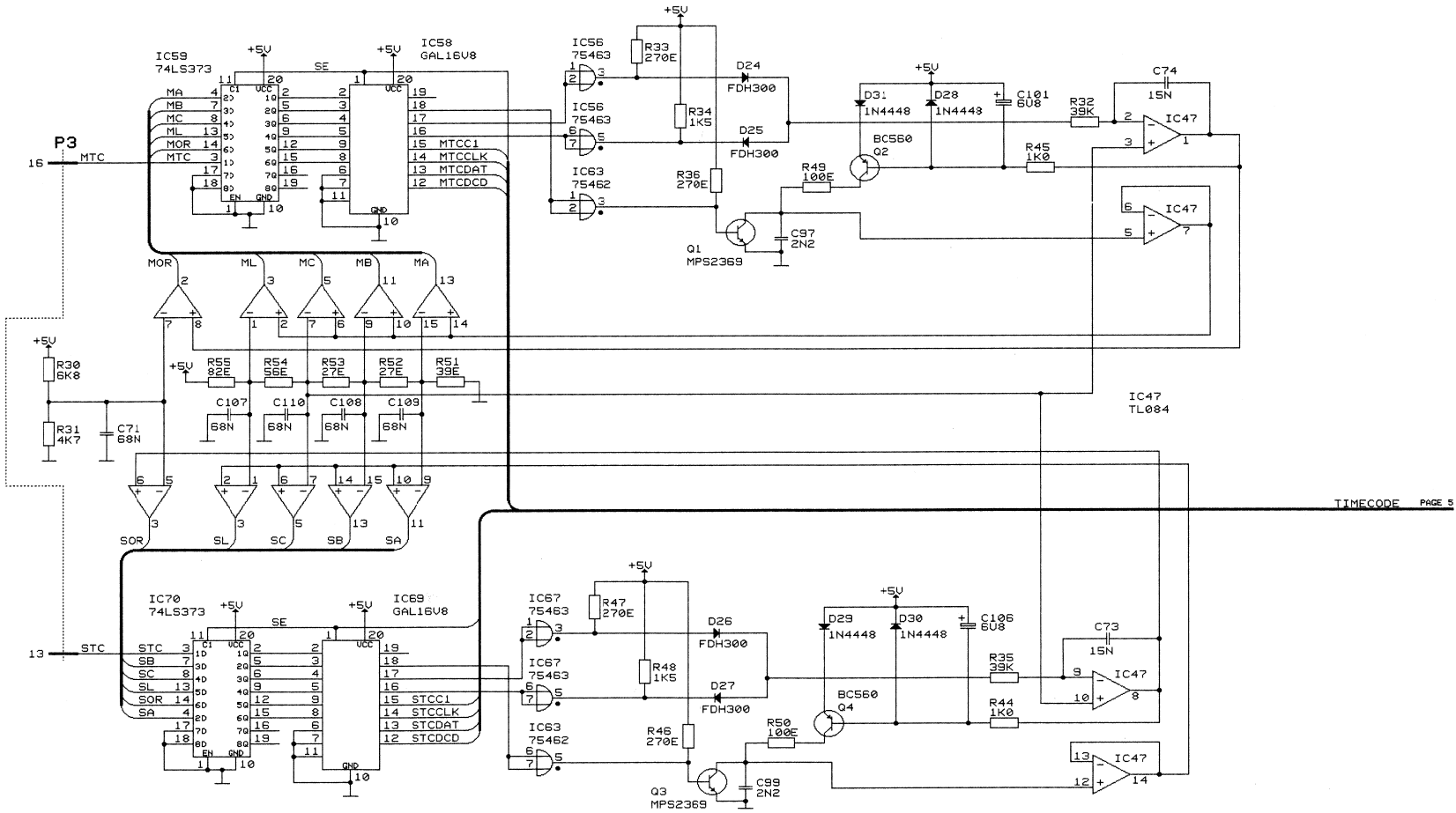


SYSTEM SYNCHRONIZER TC BOARD 1.863.659.21



|                |                                     |           |                     |             |
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|                | D827 MCH MULTICHANNEL               |           |                     | PAGE 3 OF 9 |
| <b>STUDER</b>  | <b>SYSTEM SYNCHRONIZER TC BOARD</b> | <b>SC</b> | <b>1.863.659.21</b> |             |

SYSTEM SYNCHRONIZER TC BOARD 1.863.659.21

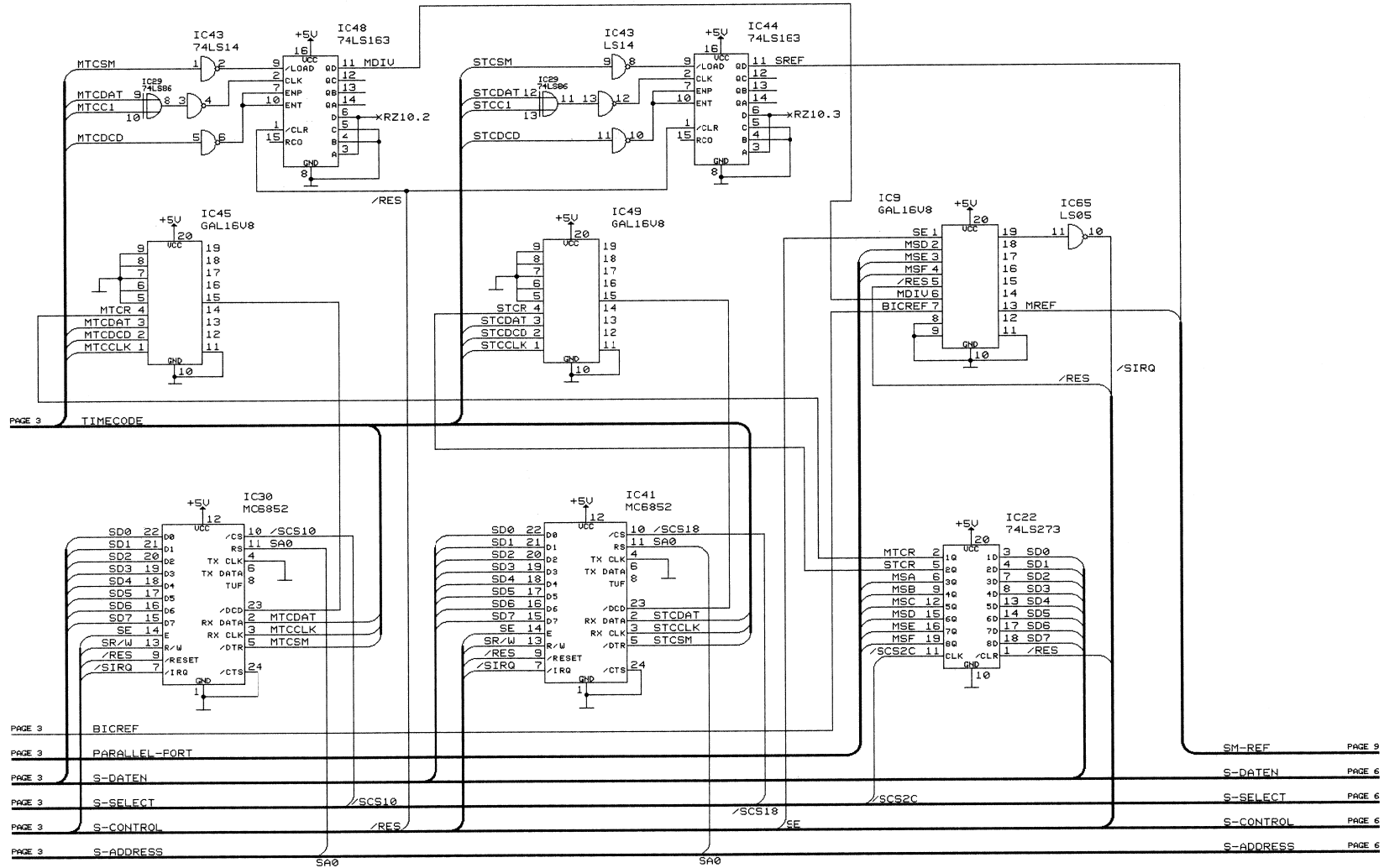


TIMECODE PAGE 5

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|                | D827 MCH MULTICHANNEL               |    | PAGE 4 OF 9  |
| <b>STUDER</b>  | <b>SYSTEM SYNCHRONIZER TC BOARD</b> | SC | 1.863.659.21 |

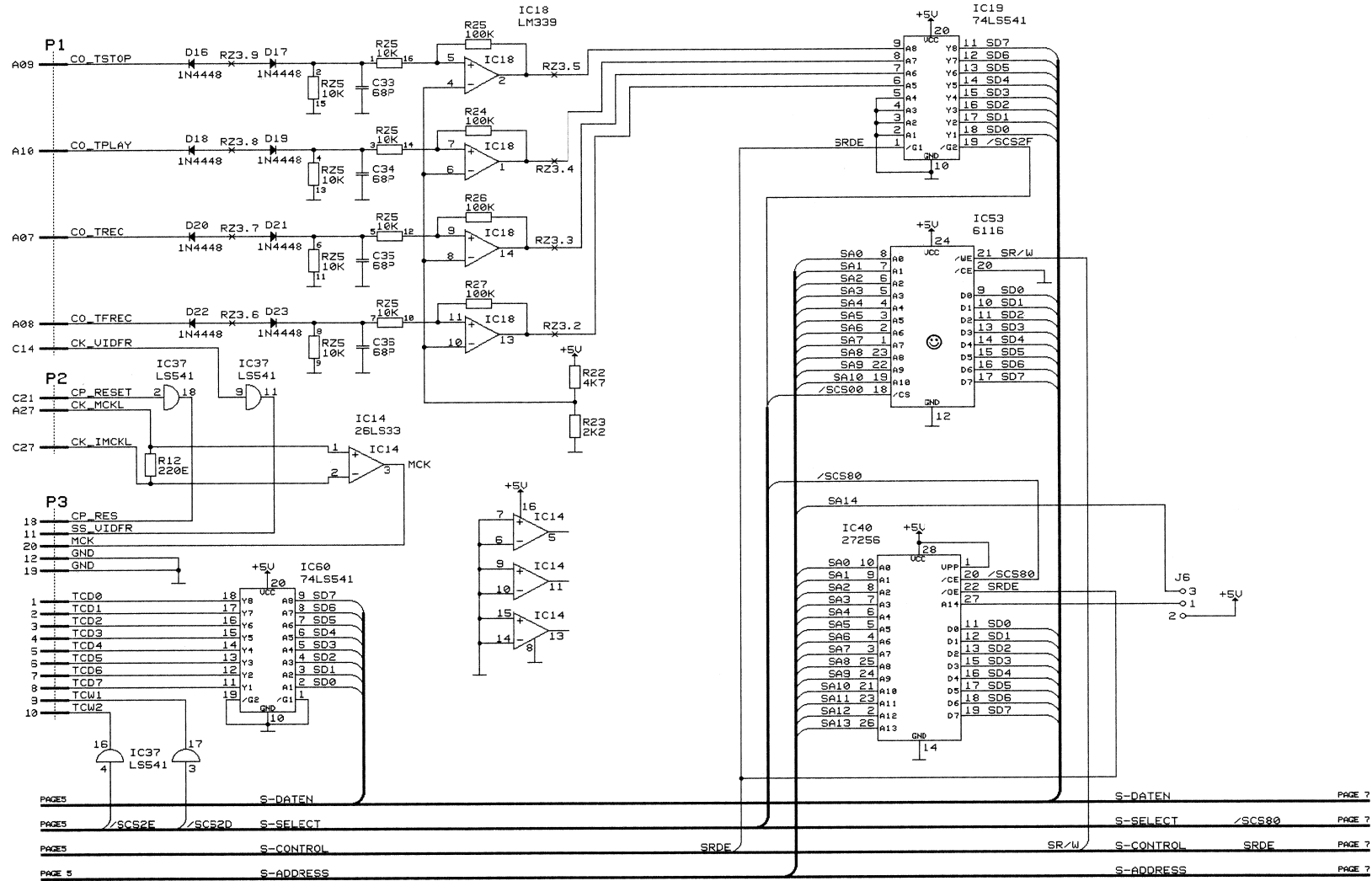


SYSTEM SYNCHRONIZER TC BOARD 1.863.659.21



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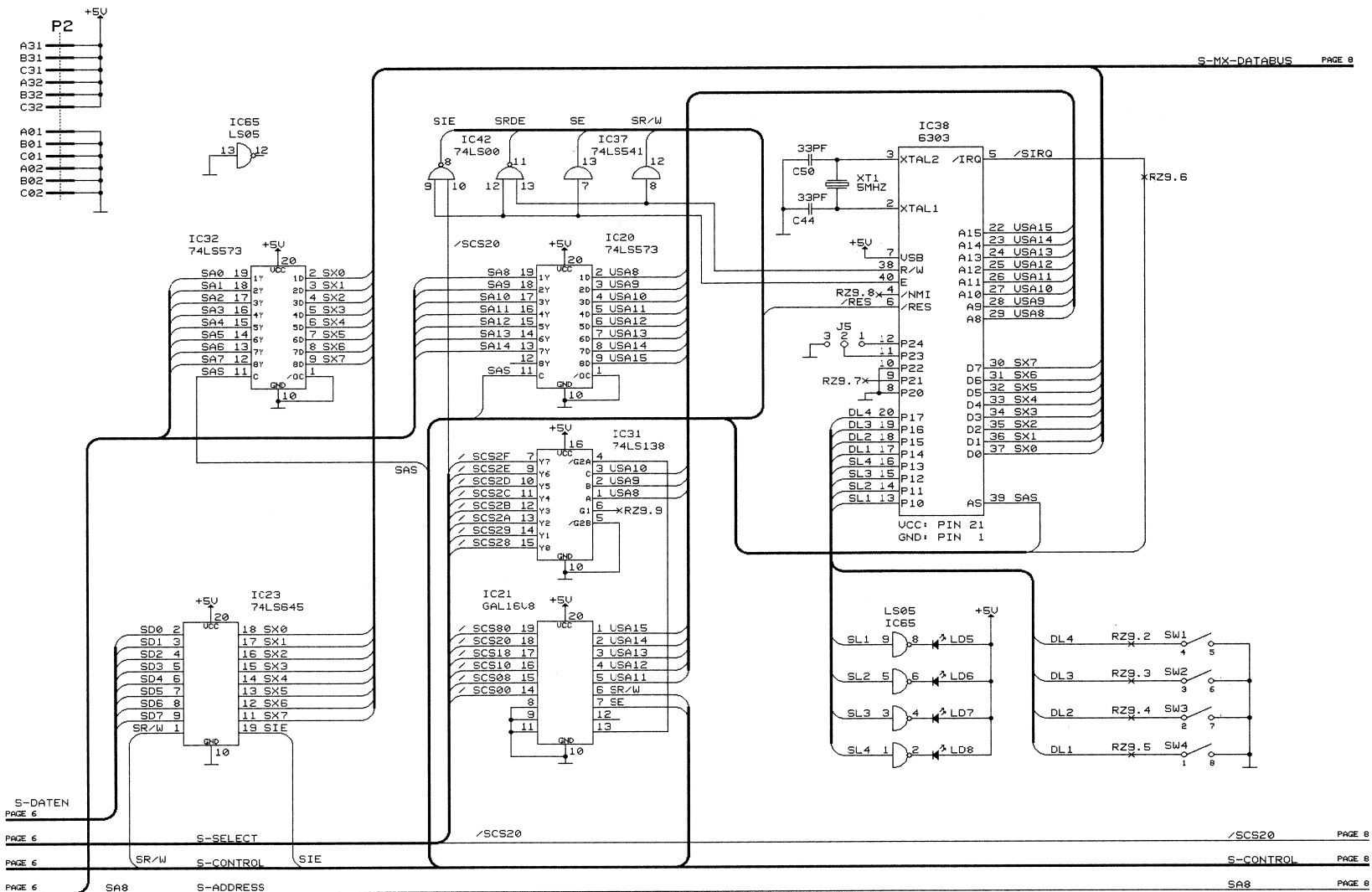


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|----------------|-------------------------------------|------------------------|
| © 06/04/89 MST | D827 MCH MULTICHANNEL               | PAGE 6 OF 9            |
| <b>STUDER</b>  | <b>SYSTEM SYNCHRONIZER TC BOARD</b> | <b>SC 1.863.659.21</b> |





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SIE

SA8 S-ADDRESS

/SCS20

/SCS20

SA8

/SCS20

S-CONTROL

SA8

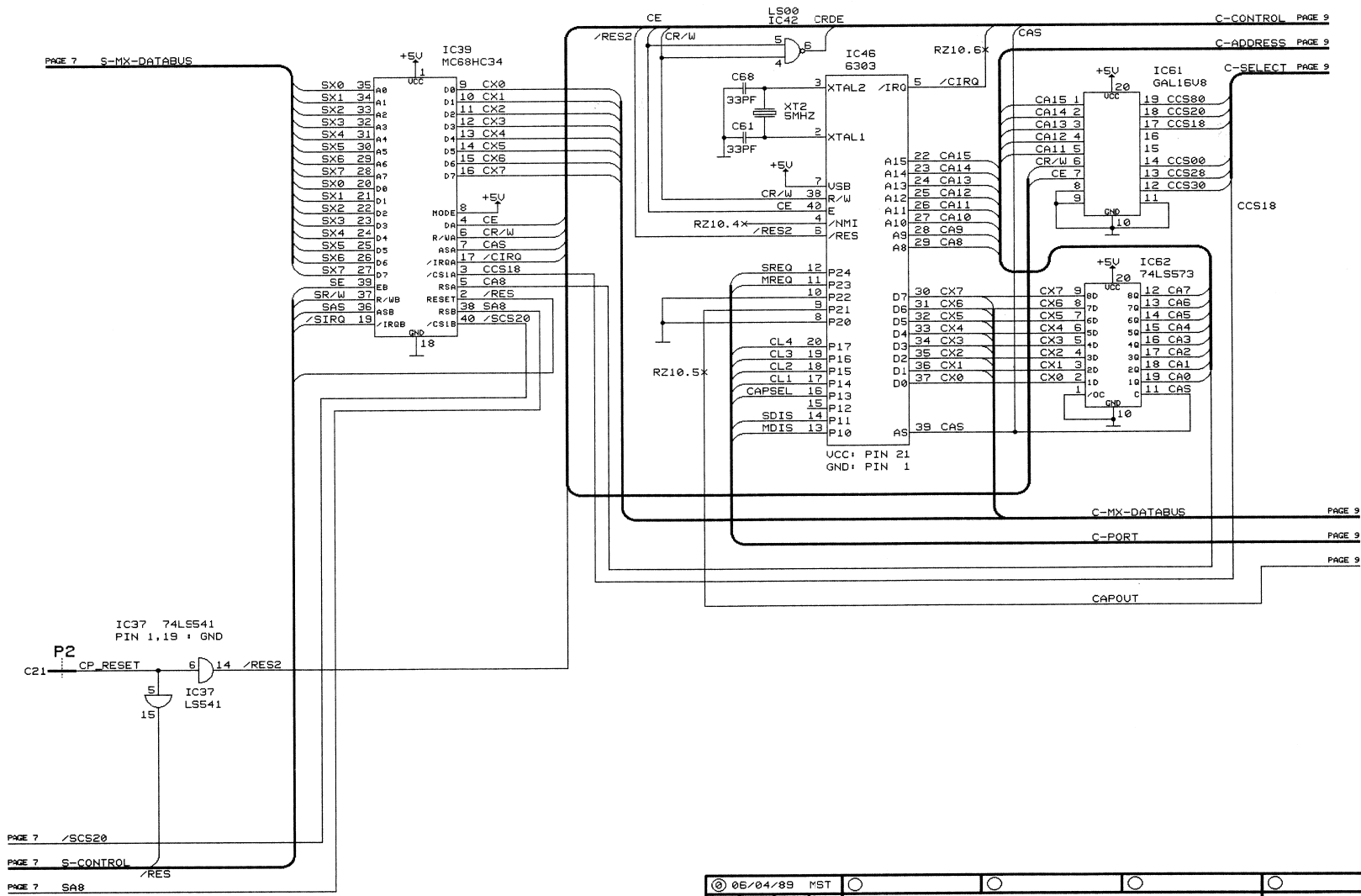
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| STUDER SYSTEM SYNCHRONIZER TC BOARD |     |  | SC          | 1.863.659.21 |  |

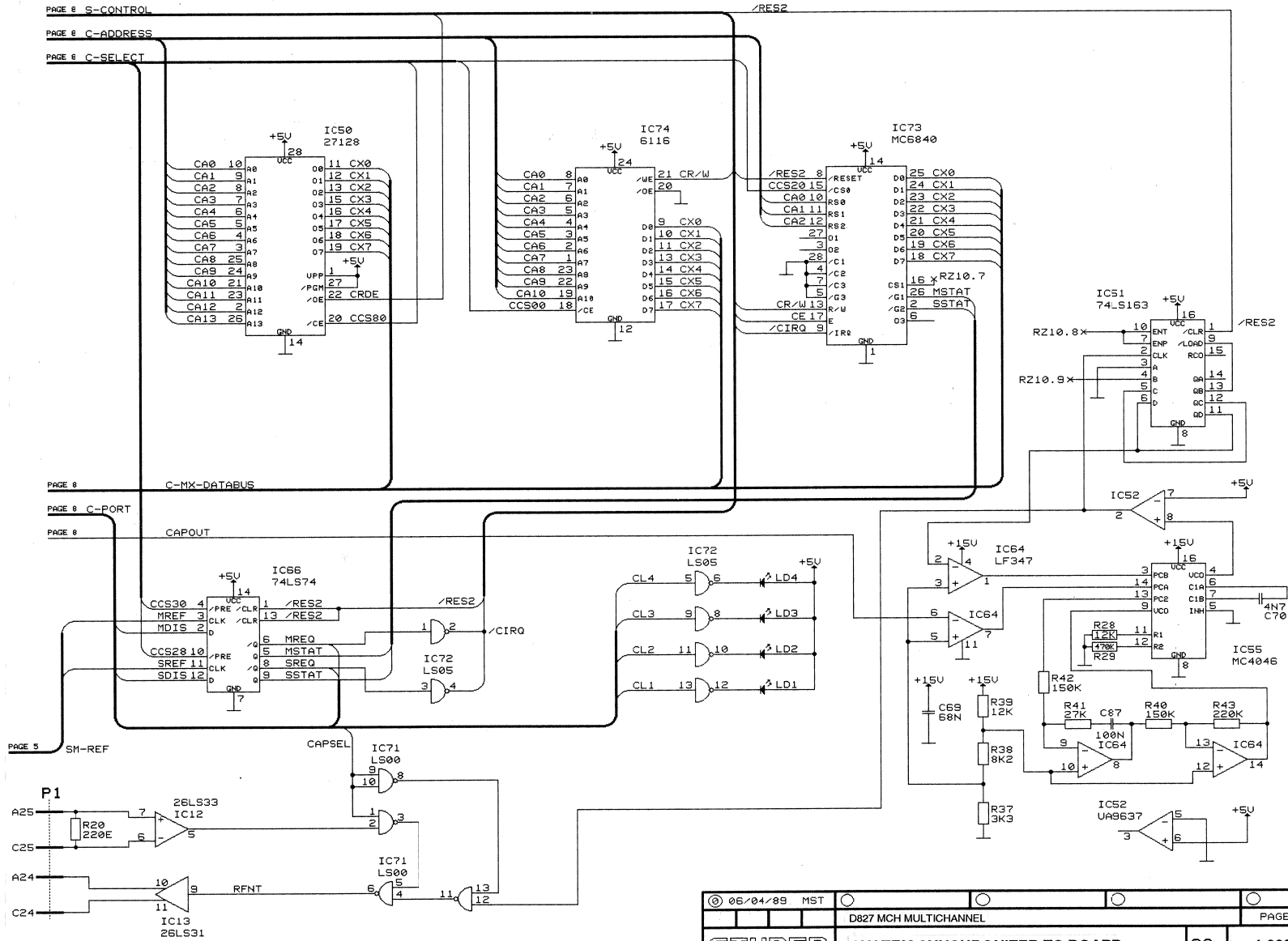
SYSTEM SYNCHRONIZER TC BOARD 1.863.659.21



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| STUDER                |     | SYSTEM SYNCHRONIZER TC BOARD |             | SC | 1.863.659.21 |

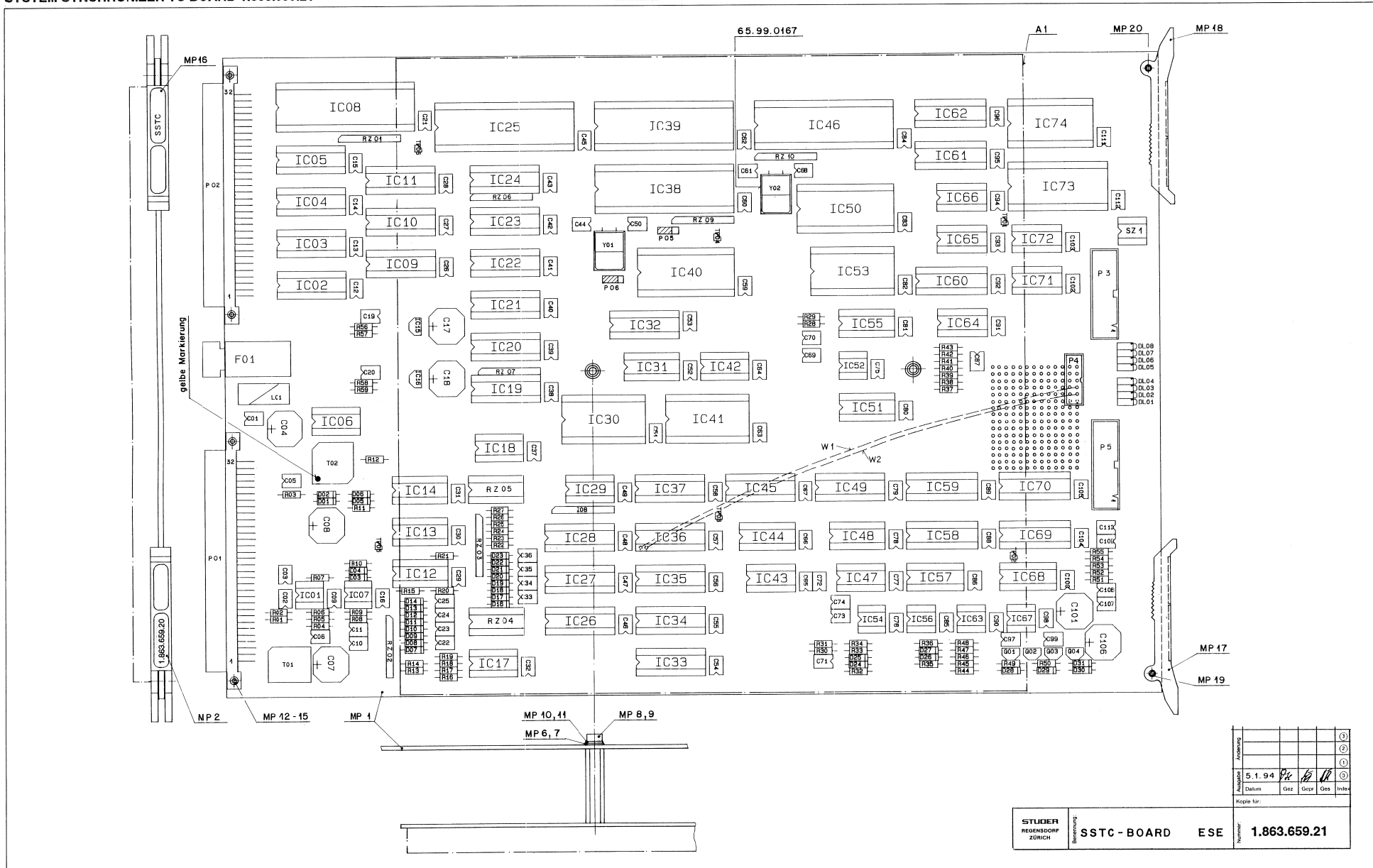


SYSTEM SYNCHRONIZER TC BOARD 1.863.659.21



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| © 06/04/89 MST                      | D827 MCH MULTICHANNEL | PAGE 9 OF 9     |
| STUDER SYSTEM SYNCHRONIZER TC BOARD |                       | SC 1.863.659.21 |

SYSTEM SYNCHRONIZER TC BOARD 1.863.659.21



|            |     |     |     |     |     |     |     |     |     |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Revisions  |     |     |     |     |     |     |     |     |     |
| 5.1.94     | Hz  | Hz  | Hz  | Hz  | Hz  | Hz  | Hz  | Hz  | Hz  |
| Datum      | Gez | Gez | Gez | Gez | Gez | Gez | Gez | Gez | Gez |
| Kopie für: |     |     |     |     |     |     |     |     |     |

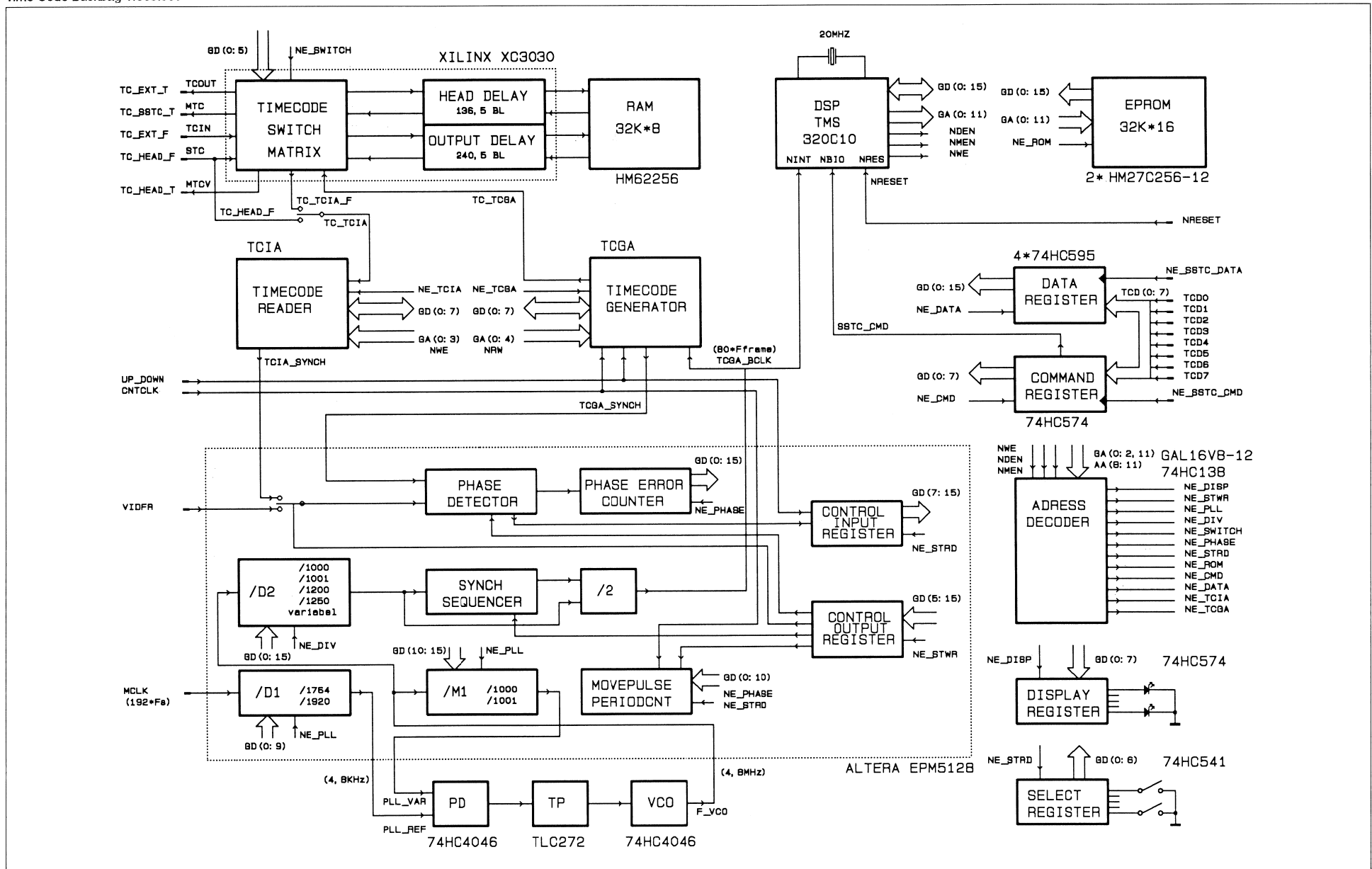
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| STUDER<br>REGENSDORF<br>ZÜRICH | Benennung | SSTC - BOARD | ESE | Nummer | 1.863.659.21 |
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BLOCK DIAGRAM

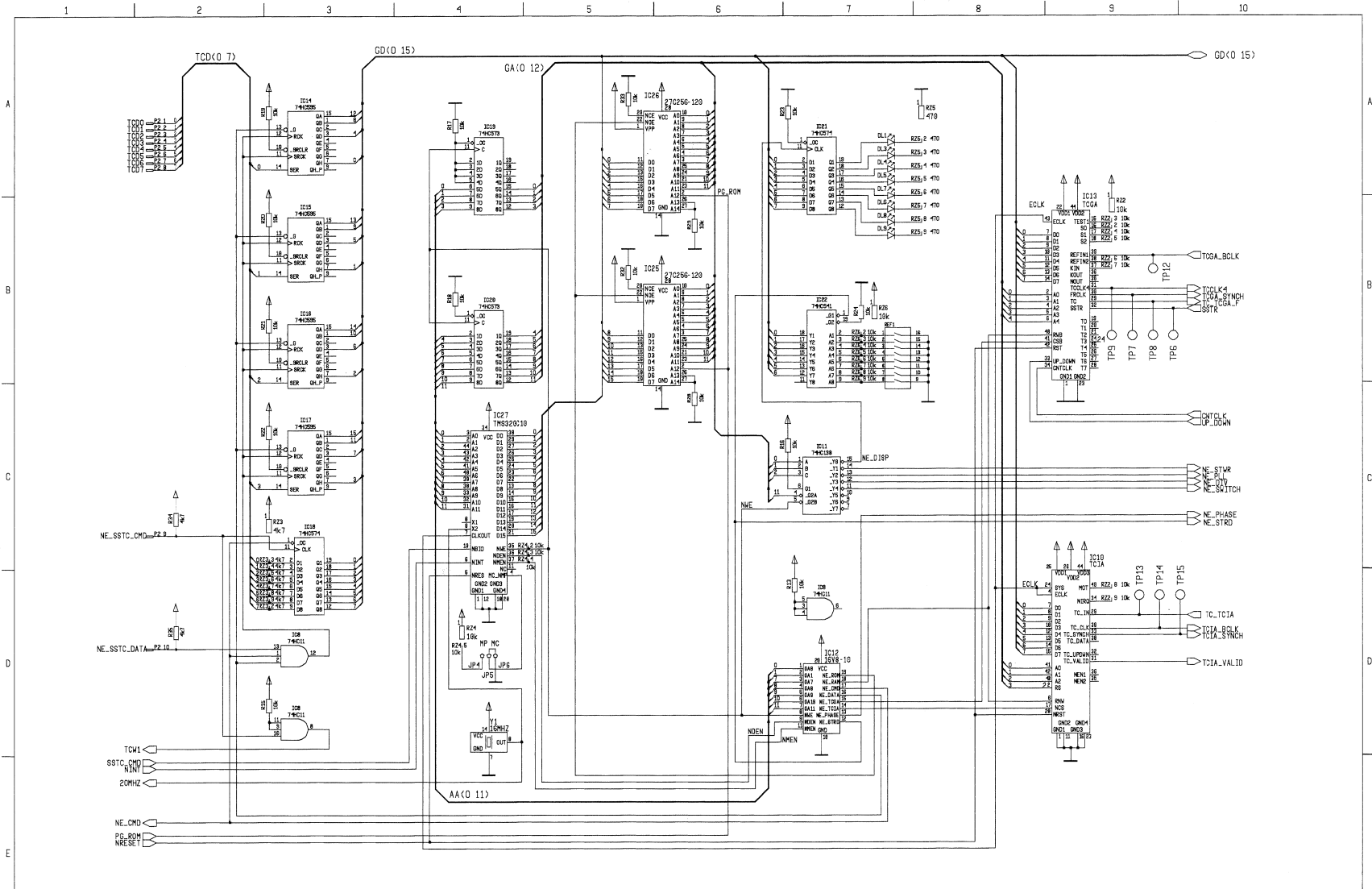
Time Code Backbag 1.863.685



STUDER D827 MCH

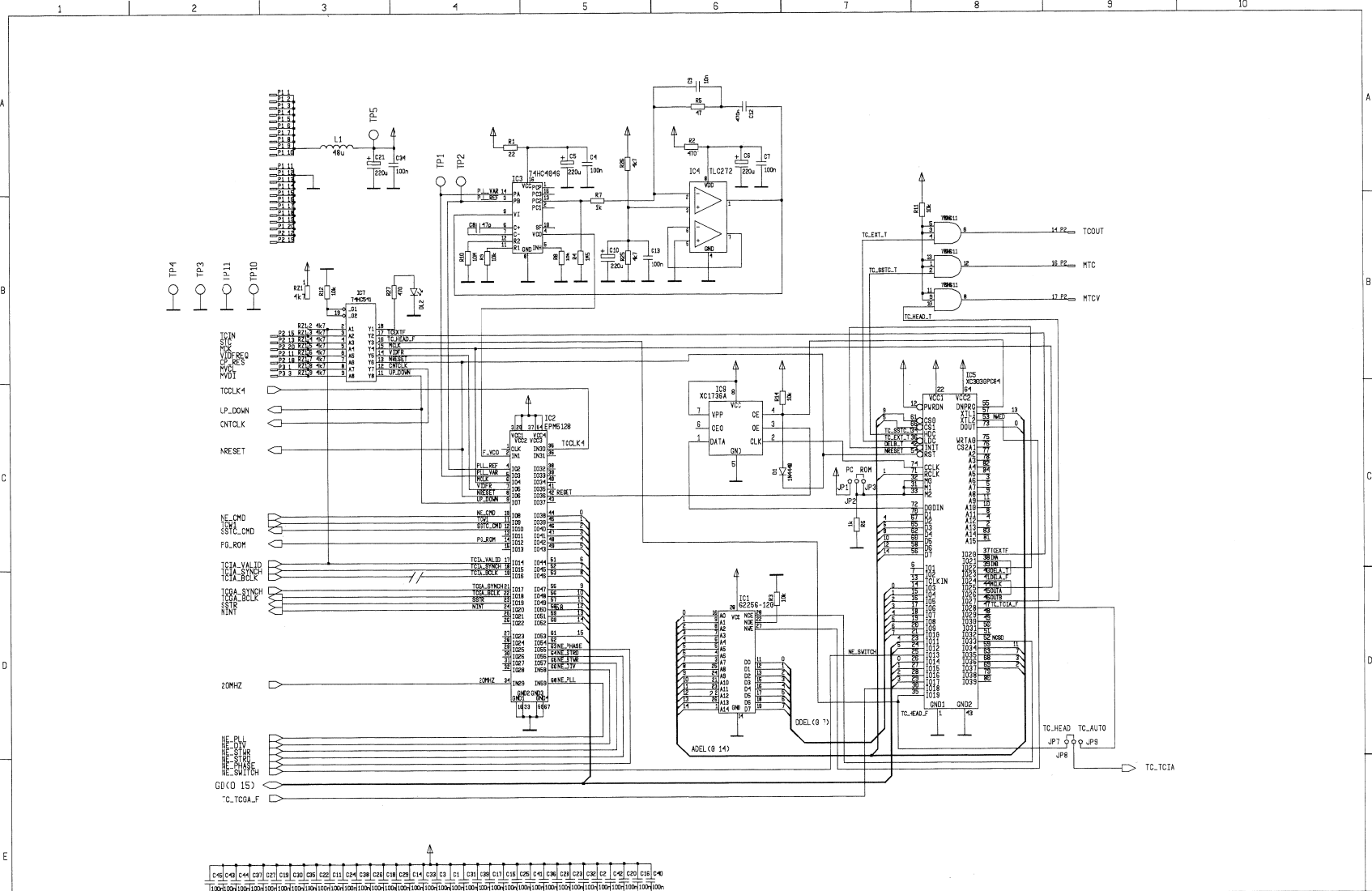


TIME CODE BACKBAG 1.863.685.21





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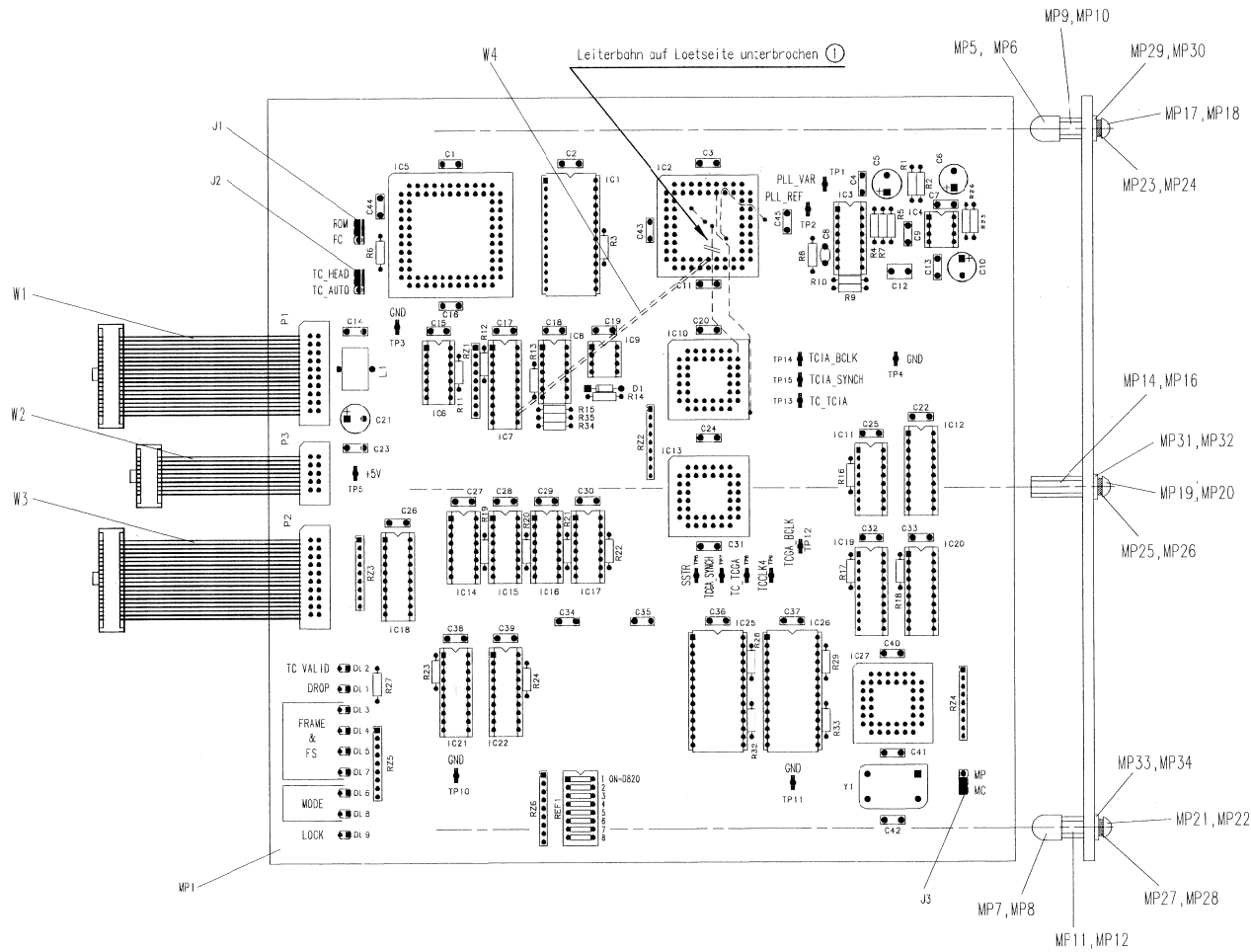


|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0   | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  |
| 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

|               |               |                   |                 |
|---------------|---------------|-------------------|-----------------|
| © 12.91.94/ZT | © 11.03.94/ZT | D827              | PAGE 2/2        |
| STUDER        |               | TIME CODE BACKBAG | SC 1.863.685.21 |



TIME CODE BACKBAG 1.863.685.21



Ad POS. REF. No. DESCRIPTION MANUFACTURER

|         |            |           |            |  |                          |
|---------|------------|-----------|------------|--|--------------------------|
| C...1   | 59.06.0104 | 100n      | 63V        | 10%                                      | 59.06-1                  |
| C...2   | 59.06.0104 | 100n      | 63V        | 10%                                      | 59.06-1                  |
| C...3   | 59.06.0104 | 100n      | 63V        | 10%                                      | 59.06-1                  |
| C...4   | 59.06.0104 | 100n      | 63V        | 10%                                      | 59.06-1                  |
| C...5   | 59.22.3221 | 220u      | 10V        | -20/+50%                                 | 59.22-A                  |
| C...6   | 59.22.3221 | 220u      | 10V        | -20/+50%                                 | 59.22-A                  |
| C...7   | 59.06.0104 | 100n      | 63V        | 10%                                      | 59.06-1                  |
| C...8   | 59.34.2470 | 47p       | 63V        | 5%                                       | 59.34-1                  |
| C...9   | 59.06.5103 | 10n       | 63V        | 5%                                       | 59.06-1                  |
| C...10  | 59.22.3221 | 220u      | 10V        | -20/+50%                                 | 59.22-A                  |
| C...11  | 59.06.0104 | 100n      | 63V        | 10%                                      | 59.06-1                  |
| C...12  | 59.06.5474 | 470n      | 63V        | 5%                                       | 59.06-3                  |
| C...13  | 59.06.0104 | 100n      | 63V        | 10%                                      | 59.06-1                  |
| C...14  | 59.06.0104 | 100n      | 63V        | 10%                                      | 59.06-1                  |
| C...15  | 59.06.0104 | 100n      | 63V        | 10%                                      | 59.06-1                  |
| C...16  | 59.06.0104 | 100n      | 63V        | 10%                                      | 59.06-1                  |
| C...17  | 59.06.0104 | 100n      | 63V        | 10%                                      | 59.06-1                  |
| C...18  | 59.06.0104 | 100n      | 63V        | 10%                                      | 59.06-1                  |
| C...19  | 59.06.0104 | 100n      | 63V        | 10%                                      | 59.06-1                  |
| C...20  | 59.06.0104 | 100n      | 63V        | 10%                                      | 59.06-1                  |
| C...21  | 59.22.3221 | 220u      | 10V        | -20/+50%                                 | 59.22-A                  |
| C...22  | 59.06.0104 | 100n      | 63V        | 10%                                      | 59.06-1                  |
| C...23  | 59.06.0104 | 100n      | 63V        | 10%                                      | 59.06-1                  |
| C...24  | 59.06.0104 | 100n      | 63V        | 10%                                      | 59.06-1                  |
| C...25  | 59.06.0104 | 100n      | 63V        | 10%                                      | 59.06-1                  |
| C...26  | 59.06.0104 | 100n      | 63V        | 10%                                      | 59.06-1                  |
| C...27  | 59.06.0104 | 100n      | 63V        | 10%                                      | 59.06-1                  |
| C...28  | 59.06.0104 | 100n      | 63V        | 10%                                      | 59.06-1                  |
| C...29  | 59.06.0104 | 100n      | 63V        | 10%                                      | 59.06-1                  |
| C...30  | 59.06.0104 | 100n      | 63V        | 10%                                      | 59.06-1                  |
| C...31  | 59.06.0104 | 100n      | 63V        | 10%                                      | 59.06-1                  |
| C...32  | 59.06.0104 | 100n      | 63V        | 10%                                      | 59.06-1                  |
| C...33  | 59.06.0104 | 100n      | 63V        | 10%                                      | 59.06-1                  |
| C...34  | 59.06.0104 | 100n      | 63V        | 10%                                      | 59.06-1                  |
| C...35  | 59.06.0104 | 100n      | 63V        | 10%                                      | 59.06-1                  |
| C...36  | 59.06.0104 | 100n      | 63V        | 10%                                      | 59.06-1                  |
| C...37  | 59.06.0104 | 100n      | 63V        | 10%                                      | 59.06-1                  |
| C...38  | 59.06.0104 | 100n      | 63V        | 10%                                      | 59.06-1                  |
| C...39  | 59.06.0104 | 100n      | 63V        | 10%                                      | 59.06-1                  |
| C...40  | 59.06.0104 | 100n      | 63V        | 10%                                      | 59.06-1                  |
| C...41  | 59.06.0104 | 100n      | 63V        | 10%                                      | 59.06-1                  |
| C...42  | 59.06.0104 | 100n      | 63V        | 10%                                      | 59.06-1                  |
| C...43  | 59.06.0104 | 100n      | 63V        | 10%                                      | 59.06-1                  |
| C...44  | 59.06.0104 | 100n      | 63V        | 10%                                      | 59.06-1                  |
| C...45  | 59.06.0104 | 100n      | 63V        | 10%                                      | 59.06-1                  |
| D...1   | 50.04.0125 | 1N4448    | ..         | 0035                                     | RECTIFIER                |
| DL...1  | 50.04.2133 | TLUY 2401 | 2mcd       | YEL DIF.                                 | LED 1.90mm               |
| DL...2  | 50.04.2121 | TLUR 2401 | 2mcd       | RED DIF.                                 | LED 1.90mm               |
| DL...3  | 50.04.2133 | TLUY 2401 | 2mcd       | YEL DIF.                                 | LED 1.90mm               |
| DL...4  | 50.04.2133 | TLUY 2401 | 2mcd       | YEL DIF.                                 | LED 1.90mm               |
| DL...5  | 50.04.2133 | TLUY 2401 | 2mcd       | YEL DIF.                                 | LED 1.90mm               |
| DL...6  | 50.04.2132 | TLUG 2401 | 2mcd       | GRN DIF.                                 | LED 1.90mm               |
| DL...7  | 50.04.2133 | TLUY 2401 | 2mcd       | YEL DIF.                                 | LED 1.90mm               |
| DL...8  | 50.04.2132 | TLUG 2401 | 2mcd       | GRN DIF.                                 | LED 1.90mm               |
| DL...9  | 50.04.2132 | TLUG 2401 | 2mcd       | GRN DIF.                                 | LED 1.90mm               |
| IC...1  | 50.14.1004 | HM62256   | ..         | DIP28, RAM 32*8                          | 120NS                    |
| IC...2  | 50.63.4200 | EPH 5128  | LC         | (SM 1.863.944.21)                        |                          |
| IC...3  | 50.17.4046 | ..        | 74         | HC 4046                                  | A                        |
| IC...4  | 50.09.0122 | TLC272    | ..         | DIP08, PRECISION DUAL OPAMP              |                          |
| IC...5  | 50.63.4002 | XC3030    | ..         | PLCC84, PROG. GATE ARRAY                 |                          |
| IC...6  | 50.17.1011 | 74HC11    | ..         | DIP14, TRIPLE 3-INPUT AND GATE           |                          |
| IC...7  | 50.17.1541 | 74HC541   | ..         | DIP20, OCTAL BUS BUFFER                  |                          |
| IC...8  | 50.17.1011 | 74HC11    | ..         | DIP14, TRIPLE 3-INPUT AND GATE           |                          |
| IC...9  | 50.14.1501 | XC1736    | ..         | DIP08, SER. EPROM (SM 1.863.983.20)      |                          |
| IC...10 | 50.50.0020 | TCR       | ..         | PLCC44, SMPTE TIME CODE READER           |                          |
| IC...11 | 50.17.1138 | 74HC138   | ..         | DIP16, 3 TO 8 LINE DECODER               |                          |
| IC...12 | 50.15.0103 | PLD16V8   | ..         | DIP20, PROG. LOG. DEV. (SM 1.863.982.20) |                          |
| IC...13 | 50.50.0030 | TCGA      | ..         | PLCC44, TIME CODE GENERATOR              |                          |
| IC...14 | 50.17.1595 | 74HC595   | ..         | DIP16, 8 BIT SHIFT/OUT. REGISTER         |                          |
| IC...15 | 50.17.1595 | 74HC595   | ..         | DIP16, 8 BIT SHIFT/OUT. REGISTER         |                          |
| IC...16 | 50.17.1595 | 74HC595   | ..         | DIP16, 8 BIT SHIFT/OUT. REGISTER         |                          |
| IC...17 | 50.17.1595 | 74HC595   | ..         | DIP16, 8 BIT SHIFT/OUT. REGISTER         |                          |
| IC...18 | 50.17.1574 | 74HC514   | ..         | DIP20, OCTAL 3-STATE DTYPE FF            |                          |
| IC...19 | 50.17.1573 | 74HC573   | ..         | DIP20, OCTAL D-TYP LATCH, TRI            |                          |
| IC...20 | 50.17.1573 | 74HC573   | ..         | DIP20, OCTAL D-TYP LATCH, TRI            |                          |
| IC...21 | 50.17.1574 | 74HC574   | ..         | DIP20, OCTAL 3-STATE DTYPE FF            |                          |
| IC...22 | 50.17.1541 | 74HC541   | ..         | DIP20, OCTAL BUS BUFFER                  |                          |
| IC...25 | 50.14.2010 | ..        | ..         | HN 27 C 256 Q - 120 (SM 1.863.980.21)    |                          |
| IC...26 | 50.14.2010 | ..        | ..         | HN 27 C 256 Q - 120 (SM 1.863.981.21)    |                          |
| IC...27 | 50.63.0400 | ..        | ..         | THS 320 C10 - 25 FNL                     | A                        |
| J...1   | 54.01.0021 | BRUECKE 2 | *.63       |  |                          |
| J...2   | 54.01.0021 | BRUECKE 2 | *.63       |  |                          |
| J...3   | 54.01.0021 | BRUECKE 2 | *.63       |  |                          |
| JP...1  | 54.01.0020 | 1-P       | MALE, STR. | 54010020, P-STRIP AU                     | 8mm                      |
| JP...2  | 54.01.0020 | 1-P       | MALE, STR. | 54010020, P-STRIP AU                     | 8mm                      |
| JP...3  | 54.01.0020 | 1-P       | MALE, STR. | 54010020, P-STRIP AU                     | 8mm                      |
| JP...4  | 54.01.0020 | 1-P       | MALE, STR. | 54010020, P-STRIP AU                     | 8mm                      |
| JP...5  | 54.01.0020 | 1-P       | MALE, STR. | 54010020, P-STRIP AU                     | 8mm                      |
| JP...6  | 54.01.0020 | 1-P       | MALE, STR. | 54010020, P-STRIP AU                     | 8mm                      |
| JP...7  | 54.01.0020 | 1-P       | MALE, STR. | 54010020, P-STRIP AU                     | 8mm                      |
| JP...8  | 54.01.0020 | 1-P       | MALE, STR. | 54010020, P-STRIP AU                     | 8mm                      |
| JP...9  | 54.01.0020 | 1-P       | MALE, STR. | 54010020, P-STRIP AU                     | 8mm                      |
| L...1   | 62.03.0010 | 48uH      | 2A         | ..                                       | 62030010, TOROIDAL CHOKE |

| NO. IN LIST OF | DATE     | BY  | REASON | INDEX |
|----------------|----------|-----|--------|-------|
| 1              | 03.94.21 | IAE | IAE    |       |
| 2              | 01.94.14 | IAE | IAE    |       |

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STUDER REGENSDORF TIME CODE BACKBAG 'LSE' 1.863.685.21

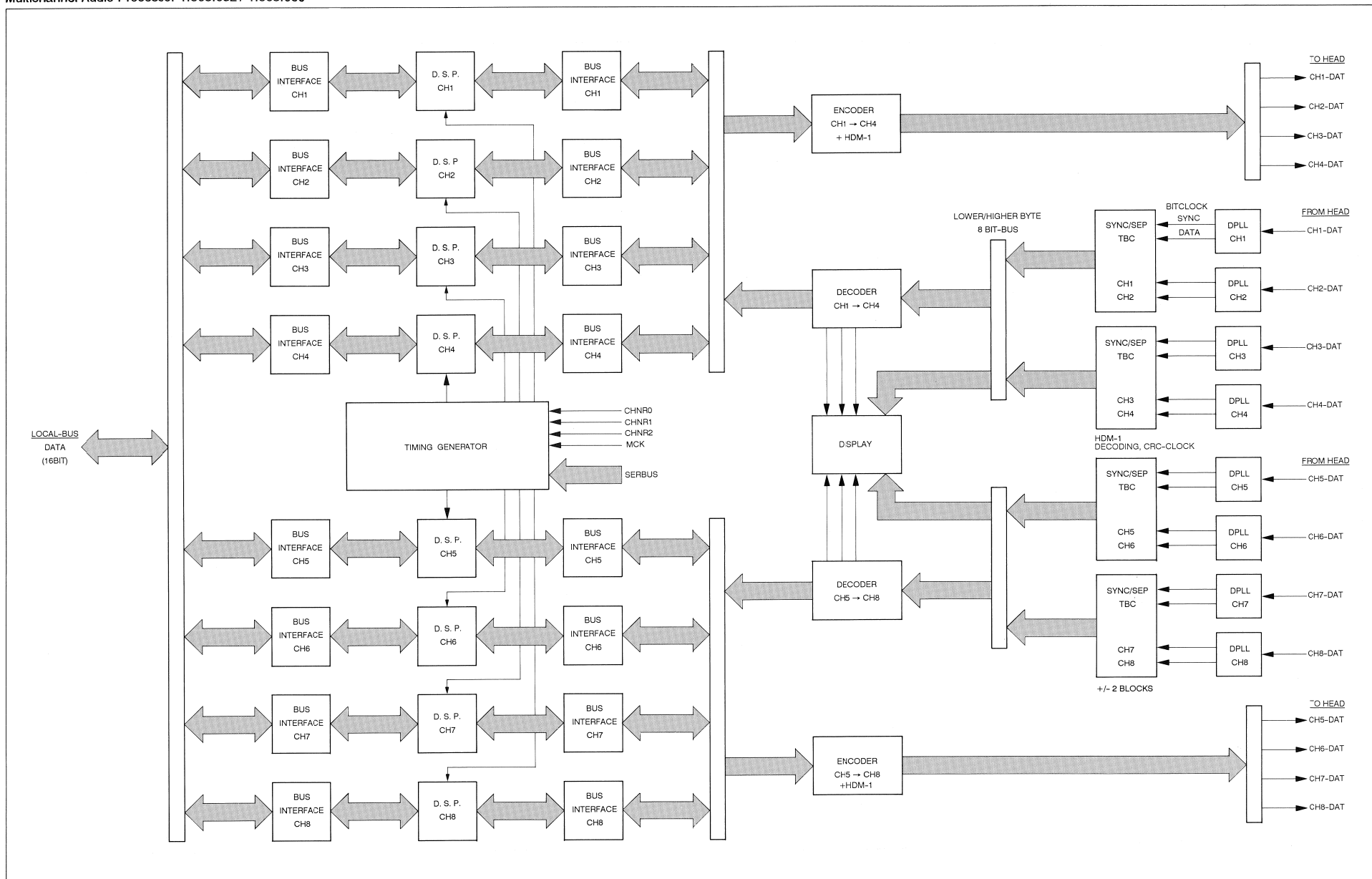


TIME CODE BACKBAG 1.863.685.21

| Ad     | POS  | REF.No.      | DESCRIPTION                                | MANUFACTURER  | Ad                                      | POS               | REF.No.    | DESCRIPTION       | MANUFACTURER |
|--------|------|--------------|--|---------------|---|-------------------|------------|-------------------|--------------|
| NP     | ..1  | 1.863.685.11 | TCMG PCB                                   |               | XIC                                     | ..5               | 53.03.2284 | XIC PLCC 64 PIN   |              |
| NP     | ..2  | 43.01.0108   | ESE-WARNSCHILD                             |               | XIC                                     | ..6               | 53.03.0167 | D1L14             |              |
| NP     | ..3  | 1.010.001.20 | TEXT-ETIK. 9*20                            | HARMARE -20   | XIC                                     | ..7               | 53.03.0165 | D1L20             |              |
| NP     | ..4  | 1.863.685.01 | WR-ETIKETTE 5 * 20                         |               | XIC                                     | ..8               | 53.03.0167 | D1L14             |              |
| NP     | ..5  | 1.077.100.20 | GUNNIKAPPE                                 |               | XIC                                     | ..9               | 53.03.0166 | D1L08             |              |
| NP     | ..6  | 1.077.100.20 | GUNNIKAPPE                                 |               | XIC                                     | ..10              | 53.03.2284 | XIC PLCC 44 PIN   |              |
| NP     | ..7  | 1.077.100.20 | GUNNIKAPPE                                 |               |   |                   |            |                   |              |
| NP     | ..8  | 1.077.100.20 | GUNNIKAPPE                                 |               | XIC                                     | ..12              | 53.03.0165 | D1L20             |              |
| NP     | ..9  | 1.010.022.27 | MUTTERBOLZEN                               | M 3 * 12      | XIC                                     | ..13              | 53.03.2284 | XIC PLCC 44 PIN   |              |
| NP     | ..10 | 1.010.022.27 | MUTTERBOLZEN                               | M 3 * 12      | XIC                                     | ..14              | 53.03.0168 | D1L16             |              |
| NP     | ..11 | 1.010.022.27 | MUTTERBOLZEN                               | M 3 * 12      | XIC                                     | ..15              | 53.03.0168 | D1L16             |              |
| NP     | ..12 | 1.010.022.27 | MUTTERBOLZEN                               | M 3 * 12      | XIC                                     | ..16              | 53.03.0168 | D1L16             |              |
| NP     | ..14 | 1.010.068.27 | MUTTERBOLZEN, S 5.5, M                     | 3 * 14        | XIC                                     | ..17              | 53.03.0168 | D1L16             |              |
| NP     | ..16 | 1.010.068.27 | MUTTERBOLZEN, S 5.5, M                     | 3 * 14        | XIC                                     | ..18              | 53.03.0165 | D1L20             |              |
| NP     | ..17 | 21.51.8355   | LIN-SCHR. 15 * MI                          | N 3 * 8       |   |                   |            |                   |              |
| NP     | ..18 | 21.51.8355   | LIN-SCHR. 15 * MI                          | N 3 * 8       | XIC                                     | ..25              | 53.03.0173 | D1L28             |              |
| NP     | ..19 | 21.51.8355   | LIN-SCHR. 15 * MI                          | N 3 * 8       | XIC                                     | ..26              | 53.03.0173 | D1L28             |              |
| NP     | ..20 | 21.51.8355   | LIN-SCHR. 15 * MI                          | N 3 * 8       | XIC                                     | ..27              | 53.03.2284 | XIC PLCC 44 PIN   |              |
| NP     | ..21 | 21.51.8356   | LIN-SCHR. 15 * MI                          | N 3 * 8       | Y.....1                                 | 89.01.1805        | 20.000MHz  | „89011805, Y-OSCI |              |
| NP     | ..22 | 21.51.8356   | LIN-SCHR. 15 * MI                          | N 3 * 8       |   |                   |            |                   |              |
| NP     | ..23 | 24.16.1030   | RIPPENSCHLEIBE                             | A D 3.2       | Socket Numbers correspond to IC-Numbers |                   |            |                   |              |
| NP     | ..24 | 24.16.1030   | RIPPENSCHLEIBE                             | A D 3.2       |   |                   |            |                   |              |
| NP     | ..25 | 24.16.1030   | RIPPENSCHLEIBE                             | A D 3.2       | 1.863.685.21                            | TIME CODE BACKBAG |            | ML 94-10-2800     |              |
| NP     | ..26 | 24.16.1030   | RIPPENSCHLEIBE                             | A D 3.2       | END                                     |                   |            |                   |              |
| NP     | ..27 | 24.16.1030   | RIPPENSCHLEIBE                             | A D 3.2       |   |                   |            |                   |              |
| NP     | ..28 | 24.16.1030   | RIPPENSCHLEIBE                             | A D 3.2       |   |                   |            |                   |              |
| NP     | ..29 | 23.01.1032   | U-SCHLEIBE                                 | D 3.2/ 6 *0.5 |   |                   |            |                   |              |
| NP     | ..30 | 23.01.1032   | U-SCHLEIBE                                 | D 3.2/ 6 *0.5 |   |                   |            |                   |              |
| NP     | ..31 | 23.01.1032   | U-SCHLEIBE                                 | D 3.2/ 6 *0.5 |   |                   |            |                   |              |
| NP     | ..32 | 23.01.1032   | U-SCHLEIBE                                 | D 3.2/ 6 *0.5 |   |                   |            |                   |              |
| NP     | ..33 | 23.01.1032   | U-SCHLEIBE                                 | D 3.2/ 6 *0.5 |   |                   |            |                   |              |
| NP     | ..34 | 23.01.1032   | U-SCHLEIBE                                 | D 3.2/ 6 *0.5 |   |                   |            |                   |              |
| R....  | ..1  | 57.11.3220   | 0.6W, 1%, 0207                             | MF            |   |                   |            |                   |              |
| R....  | ..2  | 57.11.3471   | 0.6W, 1%, 0207                             | MF            |   |                   |            |                   |              |
| R....  | ..3  | 57.11.3103   | 0.6W, 1%, 0207                             | MF            |   |                   |            |                   |              |
| R....  | ..4  | 57.11.5156   | 5%, 0207                                   | MF            |   |                   |            |                   |              |
| R....  | ..5  | 57.11.3470   | 0.6W, 1%, 0207                             | MF            |   |                   |            |                   |              |
| R....  | ..6  | 57.11.3102   | 0.6W, 1%, 0207                             | MF            |   |                   |            |                   |              |
| R....  | ..7  | 57.11.3102   | 0.6W, 1%, 0207                             | MF            |   |                   |            |                   |              |
| R....  | ..8  | 57.11.3103   | 0.6W, 1%, 0207                             | MF            |   |                   |            |                   |              |
| R....  | ..9  | 57.11.3103   | 0.6W, 1%, 0207                             | MF            |   |                   |            |                   |              |
| R....  | ..10 | 57.11.5106   | 0.4W, 5%, 0207                             | MF            |   |                   |            |                   |              |
| R....  | ..11 | 57.11.3103   | 0.6W, 1%, 0207                             | MF            |   |                   |            |                   |              |
| R....  | ..12 | 57.11.3103   | 0.6W, 1%, 0207                             | MF            |   |                   |            |                   |              |
| R....  | ..13 | 57.11.3103   | 0.6W, 1%, 0207                             | MF            |   |                   |            |                   |              |
| R....  | ..14 | 57.11.3103   | 0.6W, 1%, 0207                             | MF            |   |                   |            |                   |              |
| R....  | ..15 | 57.11.3103   | 0.6W, 1%, 0207                             | MF            |   |                   |            |                   |              |
| R....  | ..16 | 57.11.3103   | 0.6W, 1%, 0207                             | MF            |   |                   |            |                   |              |
| R....  | ..17 | 57.11.3103   | 0.6W, 1%, 0207                             | MF            |   |                   |            |                   |              |
| R....  | ..18 | 57.11.3103   | 0.6W, 1%, 0207                             | MF            |   |                   |            |                   |              |
| R....  | ..19 | 57.11.3103   | 0.6W, 1%, 0207                             | MF            |   |                   |            |                   |              |
| R....  | ..20 | 57.11.3103   | 0.6W, 1%, 0207                             | MF            |   |                   |            |                   |              |
| R....  | ..21 | 57.11.3103   | 0.6W, 1%, 0207                             | MF            |   |                   |            |                   |              |
| R....  | ..22 | 57.11.3103   | 0.6W, 1%, 0207                             | MF            |   |                   |            |                   |              |
| R....  | ..23 | 57.11.3103   | 0.6W, 1%, 0207                             | MF            |   |                   |            |                   |              |
| R....  | ..24 | 57.11.3103   | 0.6W, 1%, 0207                             | MF            |   |                   |            |                   |              |
| R....  | ..25 | 57.11.3472   | 0.6W, 1%, 0207                             | MF            |   |                   |            |                   |              |
| R....  | ..26 | 57.11.3472   | 0.6W, 1%, 0207                             | MF            |   |                   |            |                   |              |
| R....  | ..27 | 57.11.3471   | 0.6W, 1%, 0207                             | MF            |   |                   |            |                   |              |
| R....  | ..28 | 57.11.3103   | 0.6W, 1%, 0207                             | MF            |   |                   |            |                   |              |
| R....  | ..29 | 57.11.3103   | 0.6W, 1%, 0207                             | MF            |   |                   |            |                   |              |
| R....  | ..32 | 57.11.3103   | 0.6W, 1%, 0207                             | MF            |   |                   |            |                   |              |
| R....  | ..33 | 57.11.3103   | 0.6W, 1%, 0207                             | MF            |   |                   |            |                   |              |
| R....  | ..34 | 57.11.3472   | 0.6W, 1%, 0207                             | MF            |   |                   |            |                   |              |
| R....  | ..35 | 57.11.3472   | 0.6W, 1%, 0207                             | MF            |   |                   |            |                   |              |
| REF    | ..1  | 55.01.0168   | 8*<br>24V, 100mA, 55010168, DIL-SWITCH (8) |               |   |                   |            |                   |              |
| RZ     | ..1  | 57.88.4472   | 4k7<br>0.125W, 2%, S1P09, 8 * 417          |               |   |                   |            |                   |              |
| RZ     | ..2  | 57.88.4103   | 10k<br>0.125W, 2%, S1P09, 8 * 10k          |               |   |                   |            |                   |              |
| RZ     | ..3  | 57.88.4472   | 4k7<br>0.125W, 2%, S1P09, 8 * 417          |               |   |                   |            |                   |              |
| RZ     | ..4  | 57.88.4103   | 10k<br>0.125W, 2%, S1P09, 8 * 10k          |               |   |                   |            |                   |              |
| RZ     | ..5  | 57.88.4471   | 470<br>0.125W, 2%, S1P09, 8 * 470          |               |   |                   |            |                   |              |
| RZ     | ..6  | 57.88.4103   | 10k<br>0.125W, 2%, S1P09, 8 * 10k          |               |   |                   |            |                   |              |
| TP     | ..1  | 54.02.0320   | 1-P MALE, STR., 54020320, FLATPIN 2.8*0.8  |               |   |                   |            |                   |              |
| TP     | ..2  | 54.02.0320   | 1-P MALE, STR., 54020320, FLATPIN 2.8*0.8  |               |   |                   |            |                   |              |
| TP     | ..3  | 54.02.0320   | 1-P MALE, STR., 54020320, FLATPIN 2.8*0.8  |               |   |                   |            |                   |              |
| TP     | ..4  | 54.02.0320   | 1-P MALE, STR., 54020320, FLATPIN 2.8*0.8  |               |   |                   |            |                   |              |
| TP     | ..5  | 54.02.0320   | 1-P MALE, STR., 54020320, FLATPIN 2.8*0.8  |               |   |                   |            |                   |              |
| TP     | ..6  | 54.02.0320   | 1-P MALE, STR., 54020320, FLATPIN 2.8*0.8  |               |   |                   |            |                   |              |
| TP     | ..7  | 54.02.0320   | 1-P MALE, STR., 54020320, FLATPIN 2.8*0.8  |               |   |                   |            |                   |              |
| TP     | ..8  | 54.02.0320   | 1-P MALE, STR., 54020320, FLATPIN 2.8*0.8  |               |   |                   |            |                   |              |
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| TP     | ..10 | 54.02.0320   | 1-P MALE, STR., 54020320, FLATPIN 2.8*0.8  |               |   |                   |            |                   |              |
| TP     | ..11 | 54.02.0320   | 1-P MALE, STR., 54020320, FLATPIN 2.8*0.8  |               |   |                   |            |                   |              |
| TP     | ..12 | 54.02.0320   | 1-P MALE, STR., 54020320, FLATPIN 2.8*0.8  |               |   |                   |            |                   |              |
| TP     | ..13 | 54.02.0320   | 1-P MALE, STR., 54020320, FLATPIN 2.8*0.8  |               |   |                   |            |                   |              |
| TP     | ..14 | 54.02.0320   | 1-P MALE, STR., 54020320, FLATPIN 2.8*0.8  |               |   |                   |            |                   |              |
| TP     | ..15 | 54.02.0320   | 1-P MALE, STR., 54020320, FLATPIN 2.8*0.8  |               |   |                   |            |                   |              |
| W..... | ..1  | 1.023.112.04 | Flat Cable 20 POL. 0.1 M                   |               |   |                   |            |                   |              |
| W..... | ..2  | 1.023.112.04 | Flat Cable 20 POL. 0.1 M                   |               |   |                   |            |                   |              |
| W..... | ..3  | 1.023.110.06 | Flat Cable 10 POL. 0.065M                  |               |   |                   |            |                   |              |
| W..... | ..4  | 1.010.113.64 | WIRE WRAP DRAIN D.255 L=130                |               |   |                   |            |                   |              |
| XIC    | ..1  | 53.03.0173   | D1L28                                      |               |   |                   |            |                   |              |
| XIC    | ..2  | 53.03.2288   | XIC PLCC 68 PIN                            |               |   |                   |            |                   |              |

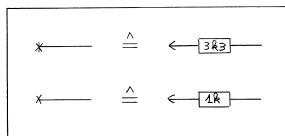
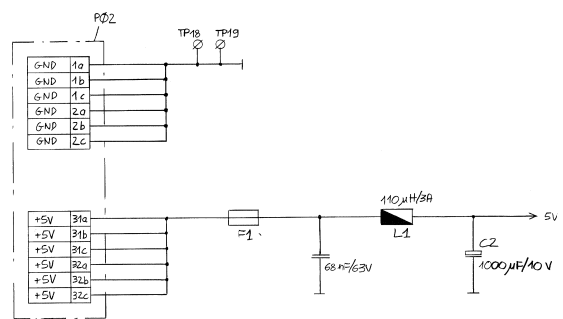
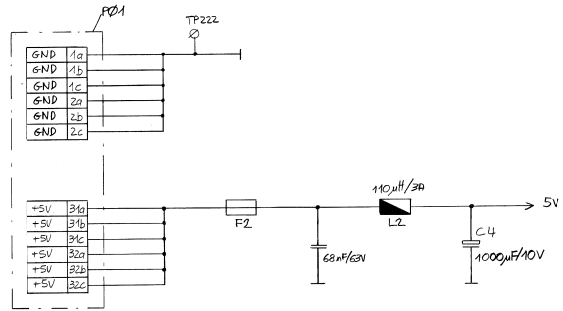
**BLOCK DIAGRAM**

Multichannel Audio Processor 1.863.652 / 1.863.660



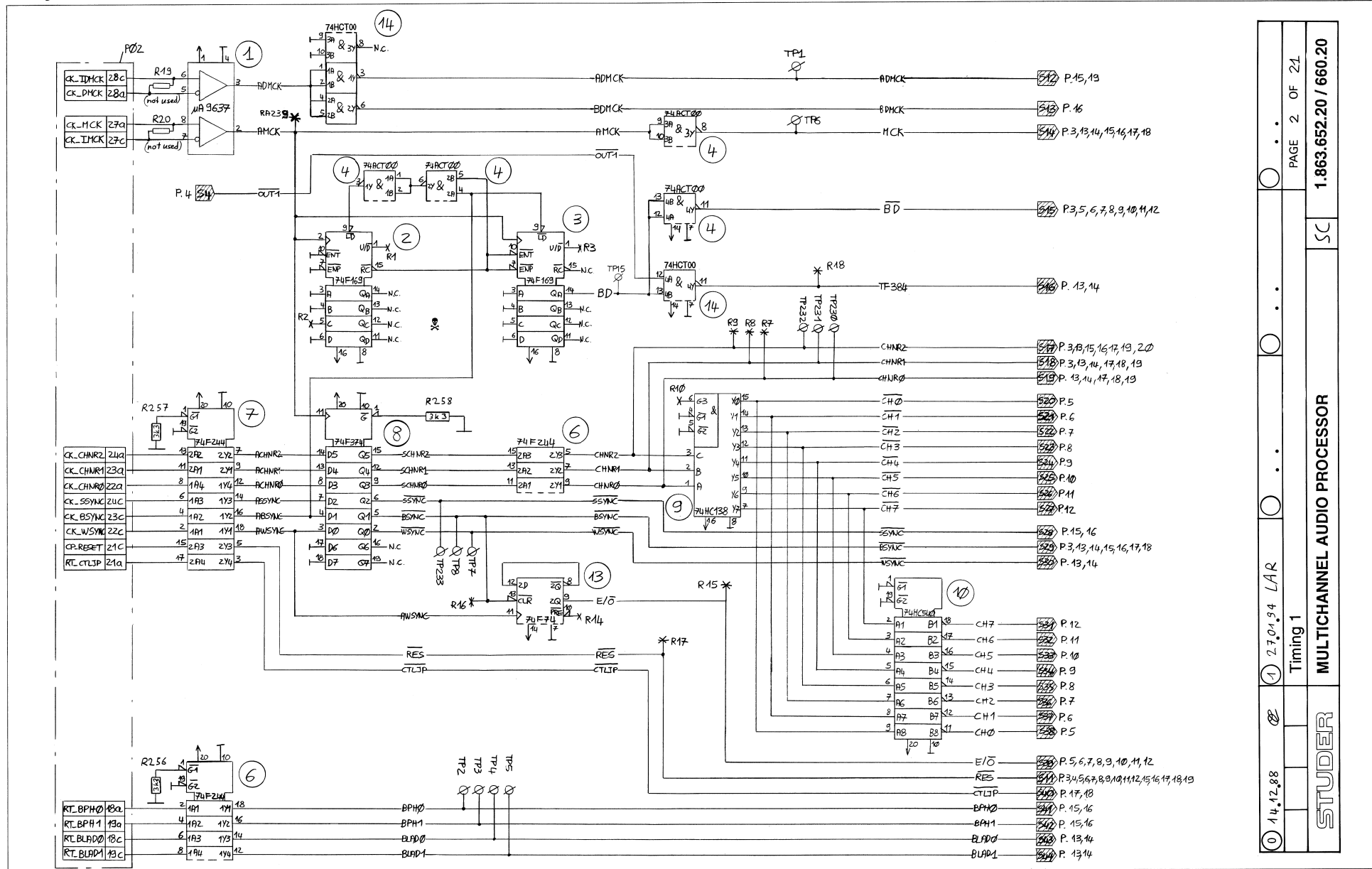
MULTICHANNEL AUDIO PROCESSOR 1.863.652.20 / 1.863.660.20

-Supply



|            |                              |       |                       |              |
|------------|------------------------------|-------|-----------------------|--------------|
| ① 14.12.88 | ② 24.10.94                   | ○ . . | ○ . .                 | ○ . .        |
| Supply     |                              |       |                       | PAGE 1 OF 21 |
| STUDER     | MULTICHANNEL AUDIO PROCESSOR | SC    | 1.863.652.20 / 660.20 |              |

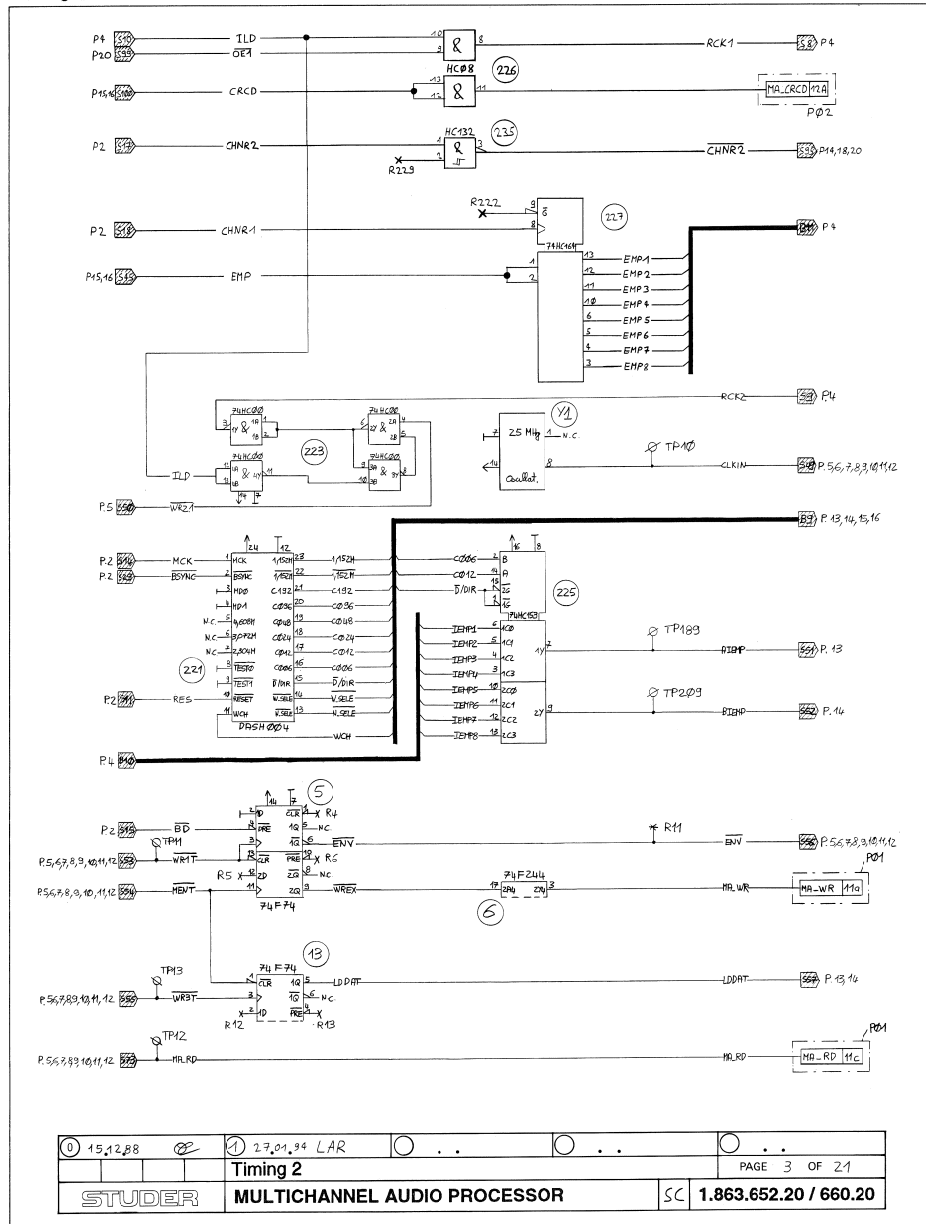
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-Timing 1



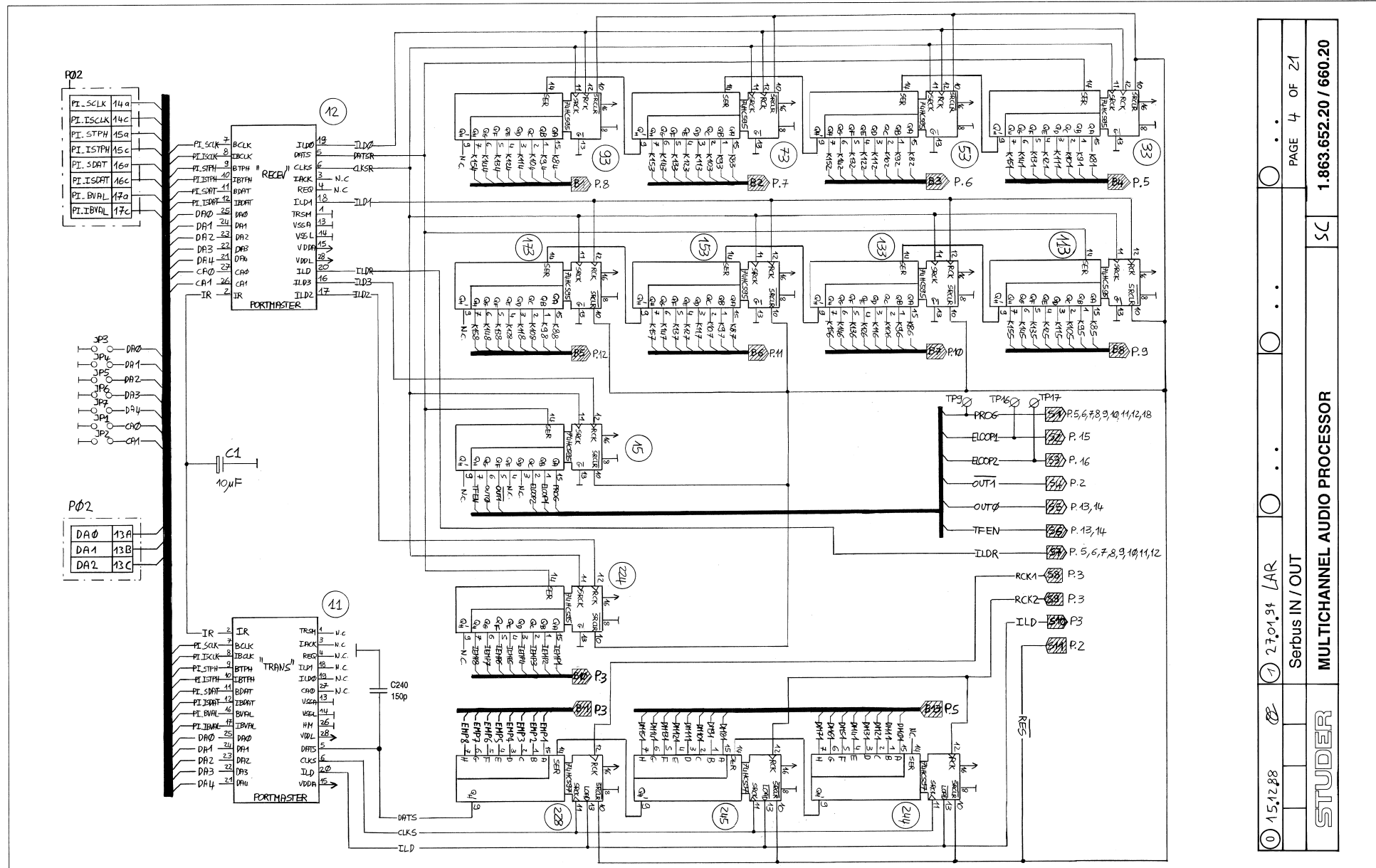
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| ① 1, 4, 12, 88 | ② 2, 7, 0, 1, 3, 4 | LAR | SC                           | 1.863.652.20 / 660.20 |
| Timing 1       |                    |     | MULTICHANNEL AUDIO PROCESSOR |                       |
| PAGE 2 OF 21   |                    |     |                              |                       |

MULTICHANNEL AUDIO PROCESSOR 1.863.652.20 / 1.863.660.20

-Timing 2



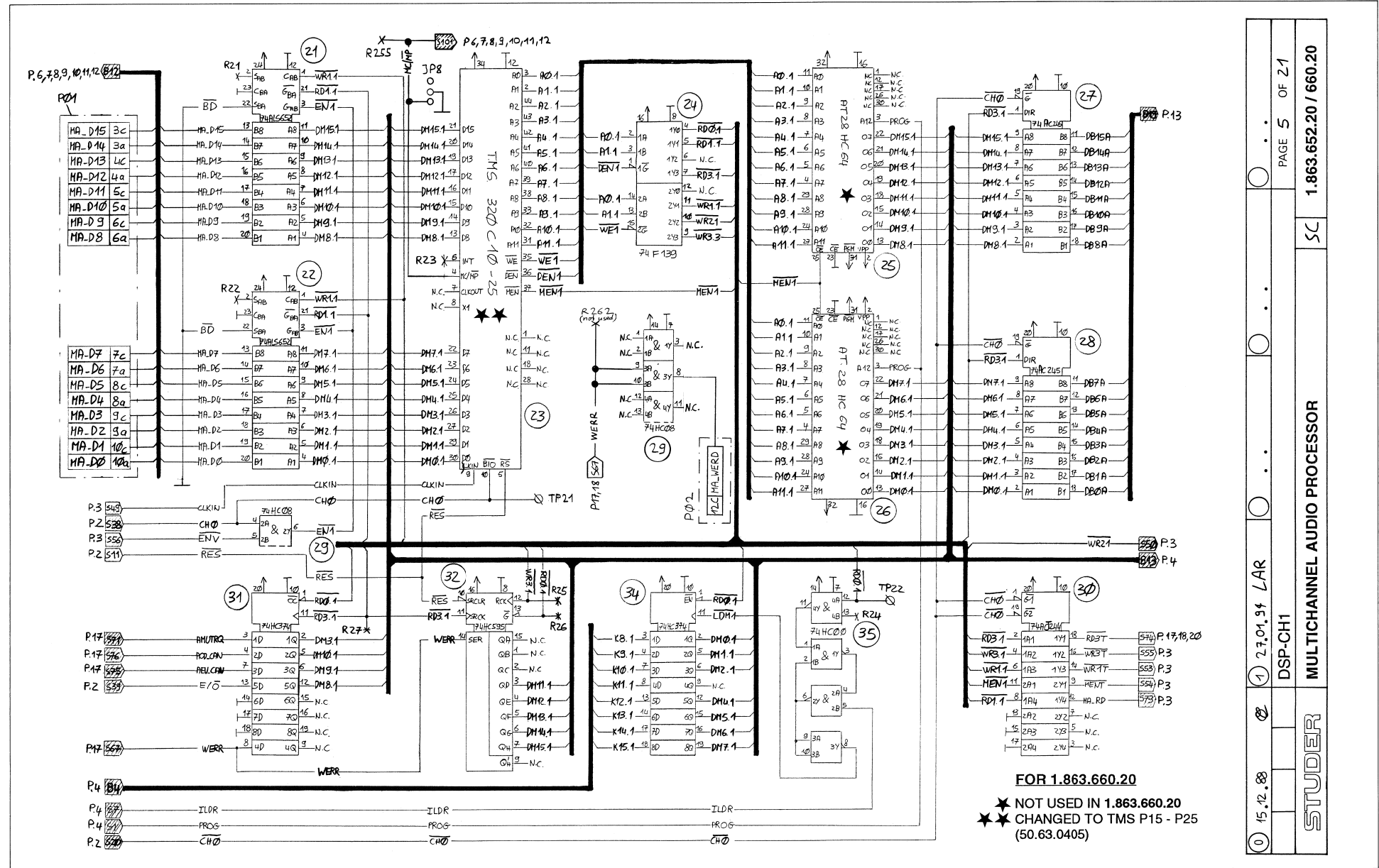
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-Serbus IN / OUT

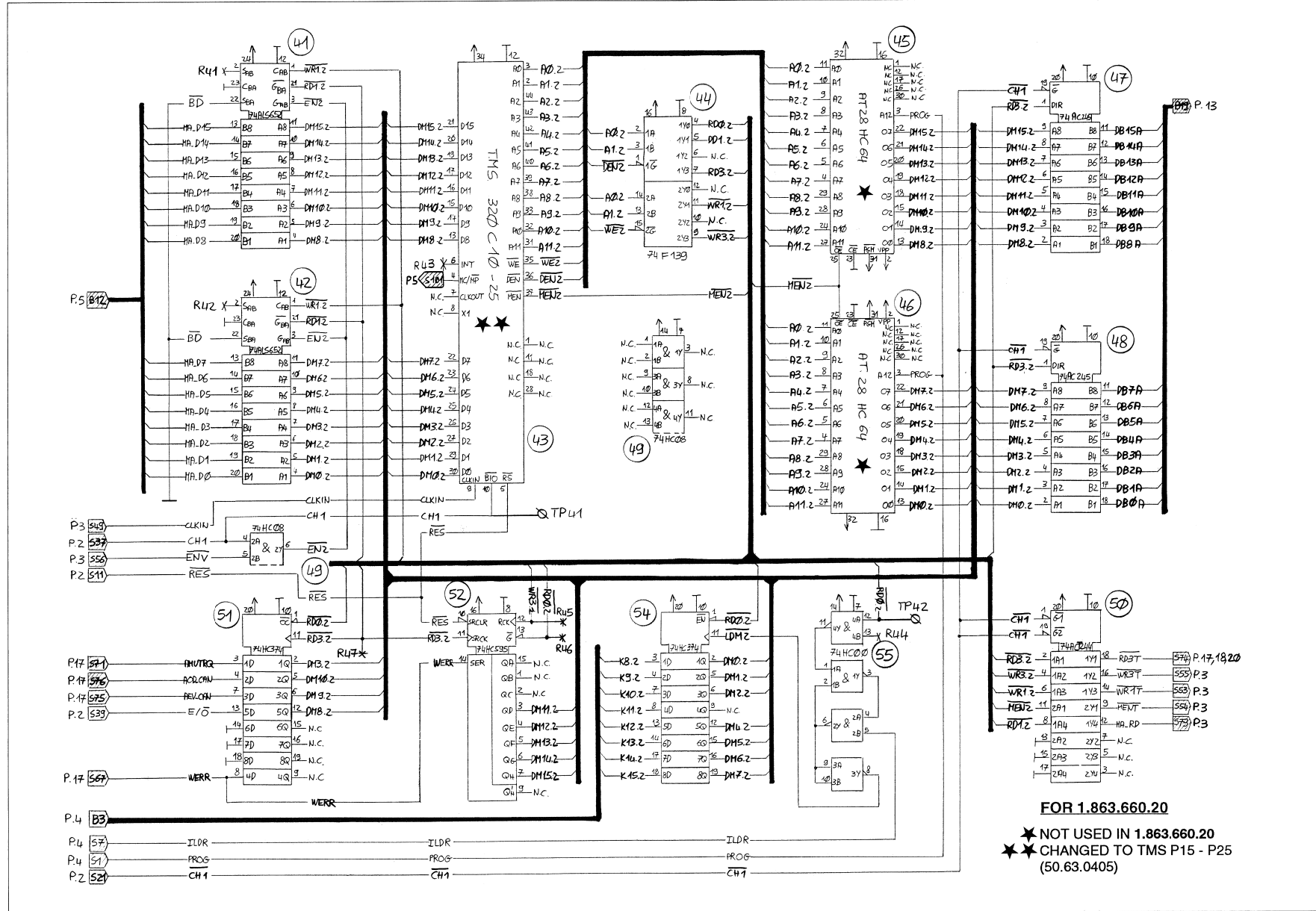


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|-----------------|---------------|------------------------------|-----------------------|
| 0 15.12.88      | 2.7.01.91 LAR | PAGE 4 OF 21                 | 1.863.652.20 / 660.20 |
| Serbus IN / OUT |               | MULTICHANNEL AUDIO PROCESSOR |                       |



MULTICHANNEL AUDIO PROCESSOR 1.863.652.20 / 1.863.660.20  
-DSP-CH1





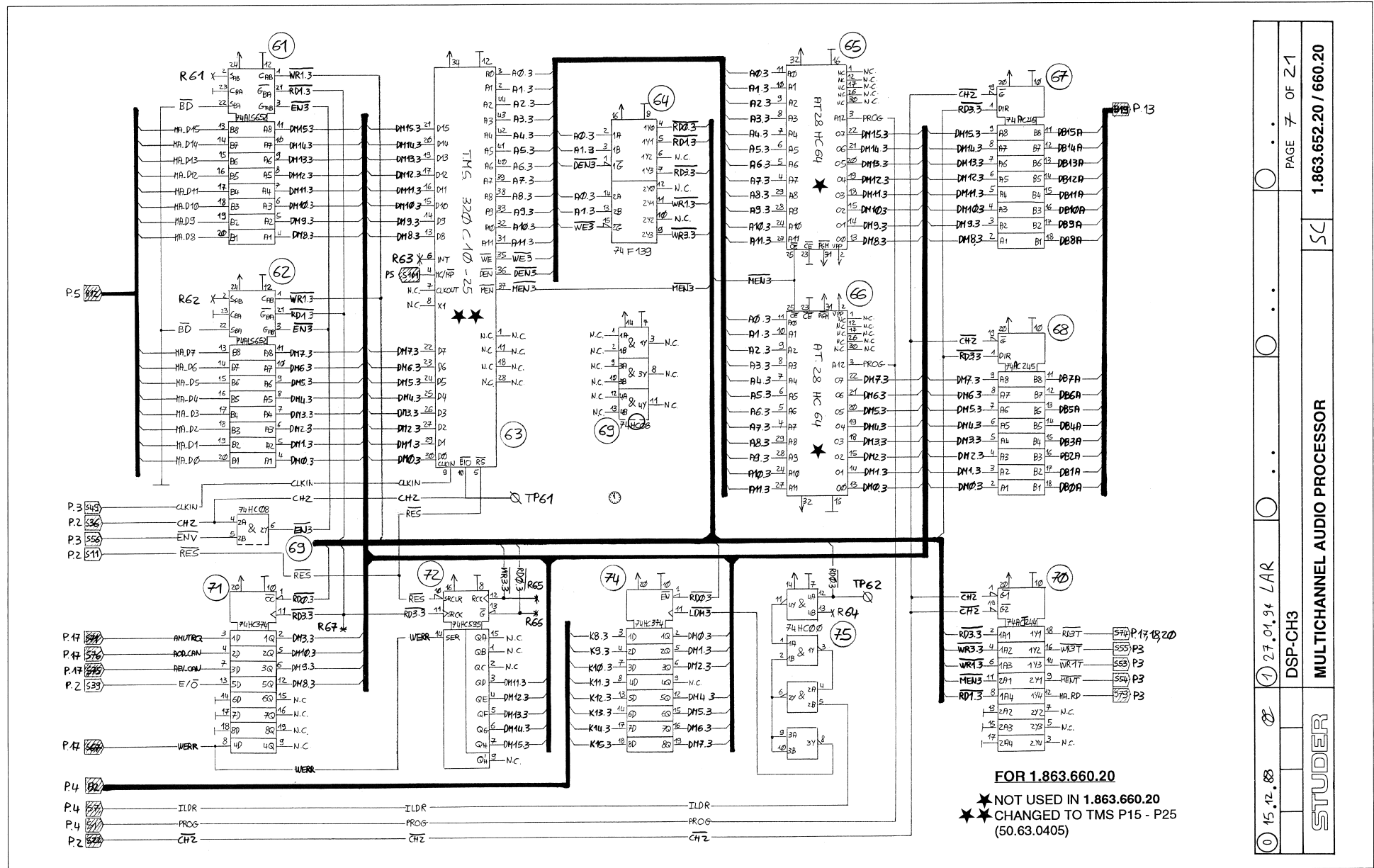
FOR 1.863.660.20

★ NOT USED IN 1.863.660.20  
★★ CHANGED TO TMS P15 - P25  
(50.63.0405)

|                              |                |                       |
|------------------------------|----------------|-----------------------|
| 0 15.12.88                   | 1 27.01.94 LAR | PAGE 6 OF 21          |
| DSP-CH2                      |                | 1.863.652.20 / 660.20 |
| MULTICHANNEL AUDIO PROCESSOR |                | SC                    |
| <b>STUDER</b>                |                |                       |

STUDER D827 MCH

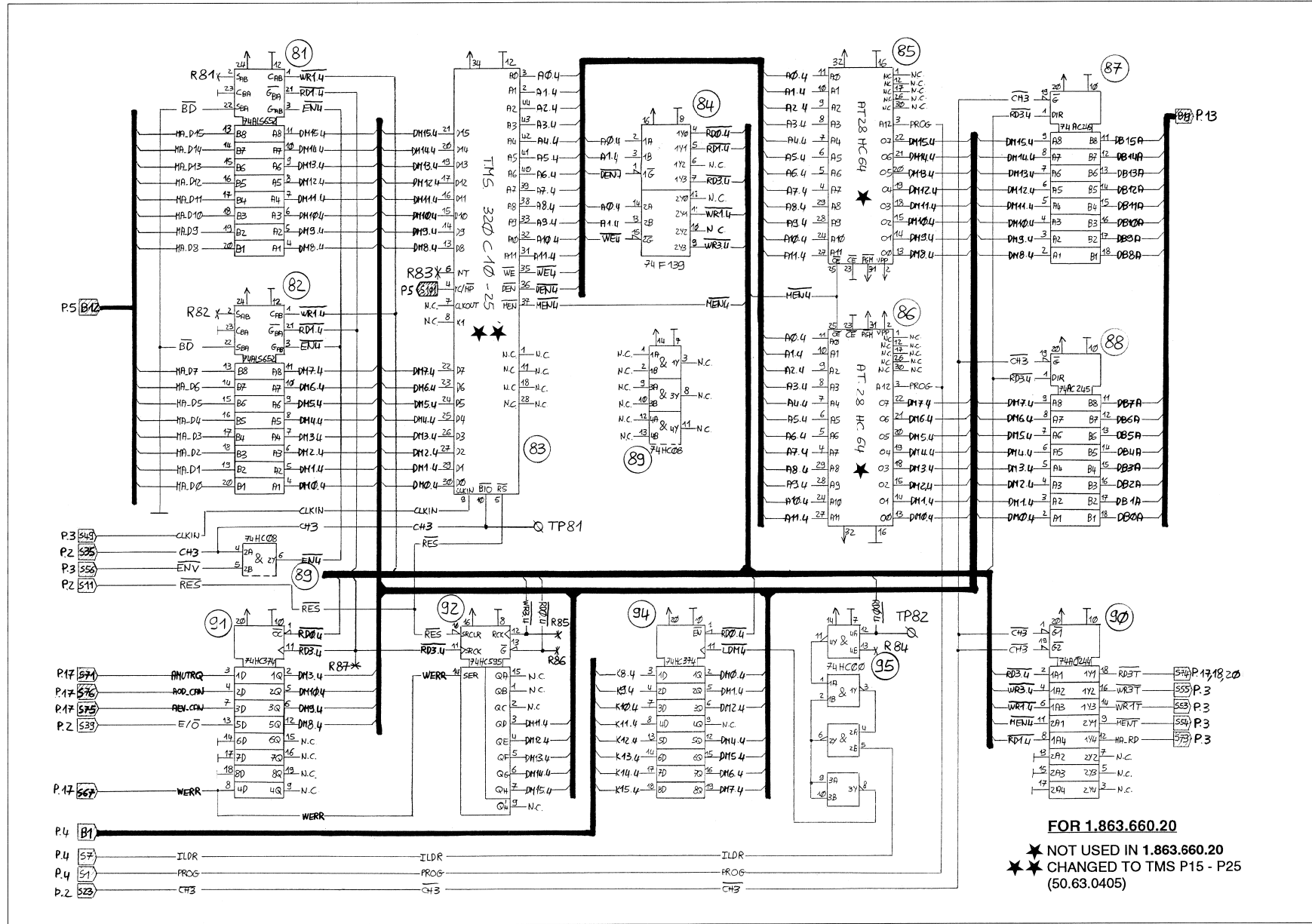
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-DSP-CH3



FOR 1.863.660.20

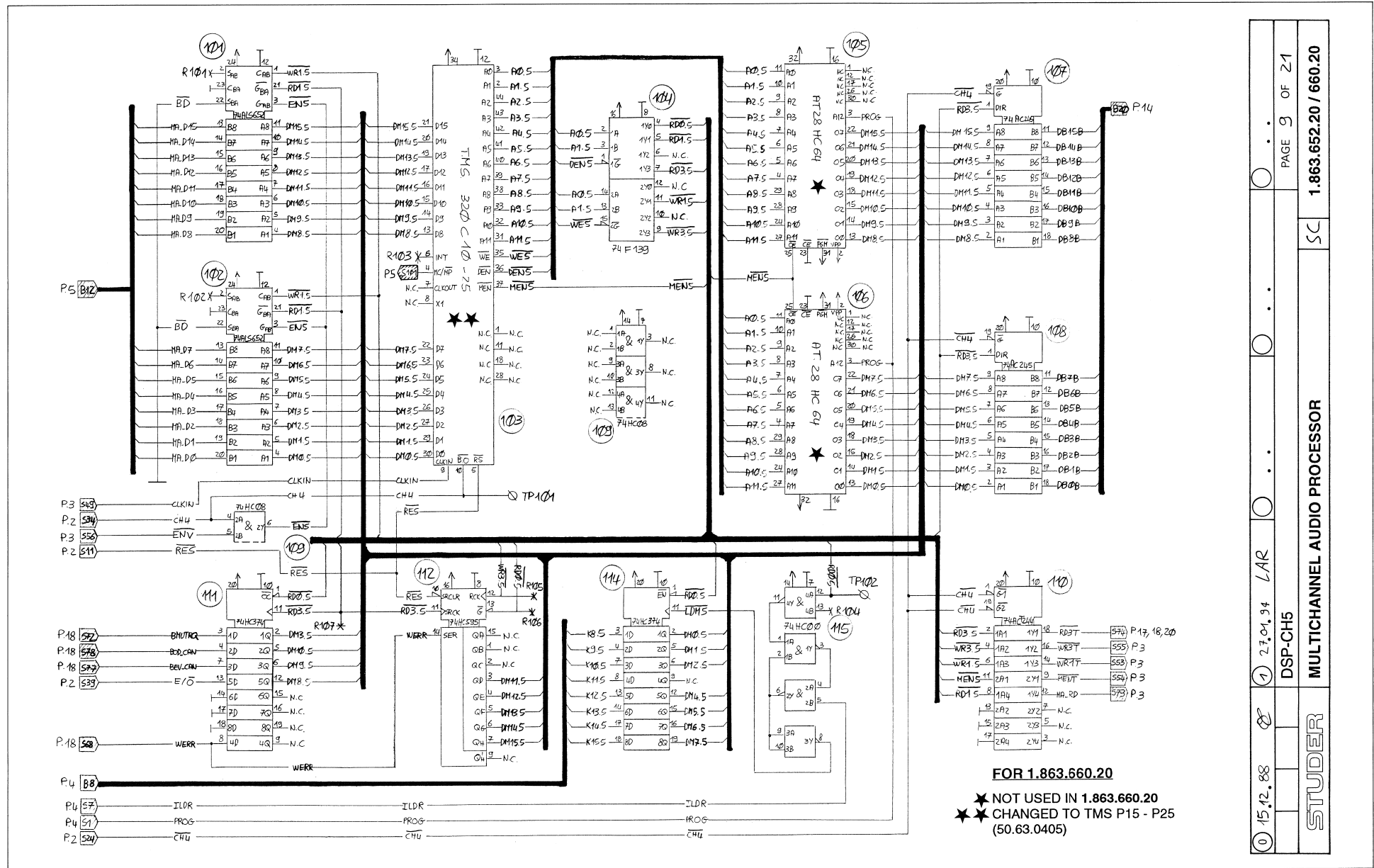
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(50.63.0405)

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| 0                            | 15.12.88 | 27.01.94 | LAR | 7  | OF 1 | 1.863.652.20 / 660.20 |
|                              |          |          |     | SC |      |                       |
| MULTICHANNEL AUDIO PROCESSOR |          |          |     |    |      |                       |
| STUDER                       |          |          |     |    |      |                       |



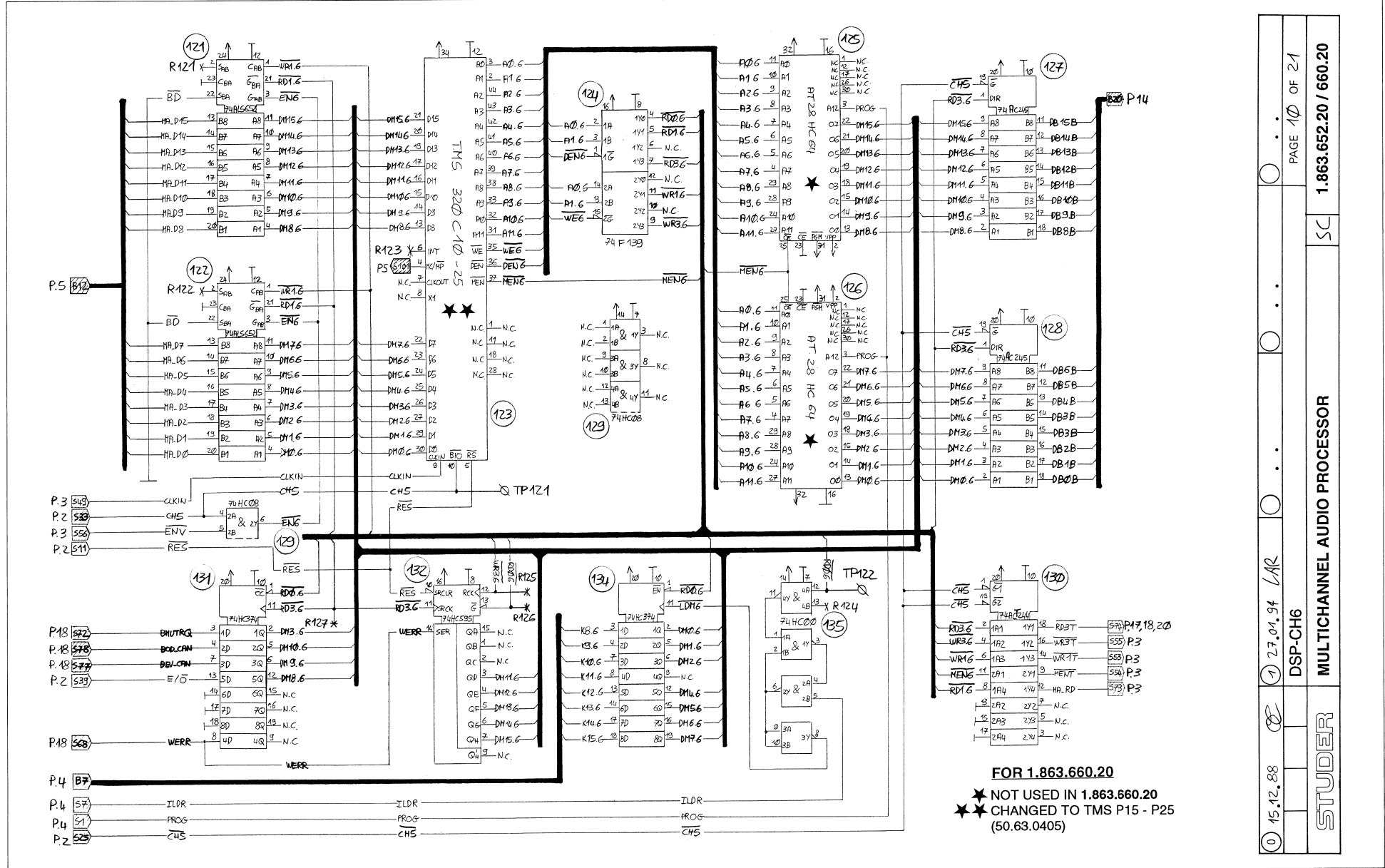
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 \* NOT USED IN 1.863.660.20  
 \*\* CHANGED TO TMS P15 - P25 (50.63.0405)

MULTICHANNEL AUDIO PROCESSOR 1.863.652.20 / 1.863.660.20  
-DSP-CHS



FOR 1.863.660.20  
 ★ NOT USED IN 1.863.660.20  
 ★★ CHANGED TO TMS P15 - P25  
 (50.63.0405)

|                              |            |     |                       |
|------------------------------|------------|-----|-----------------------|
| 0 15.12.88                   | 1 27.01.94 | LAR | PAGE 9 OF 21          |
| DSP-CHS                      |            |     | 1.863.652.20 / 660.20 |
| MULTICHANNEL AUDIO PROCESSOR |            |     | SC                    |
| <b>STUDER</b>                |            |     |                       |



FOR 1.863.660.20  
 \* NOT USED IN 1.863.660.20  
 \*\* CHANGED TO TMS P15 - P25  
 (50.63.0405)

15.12.88

27.01.94 LAR

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1.863.652.20 / 660.20

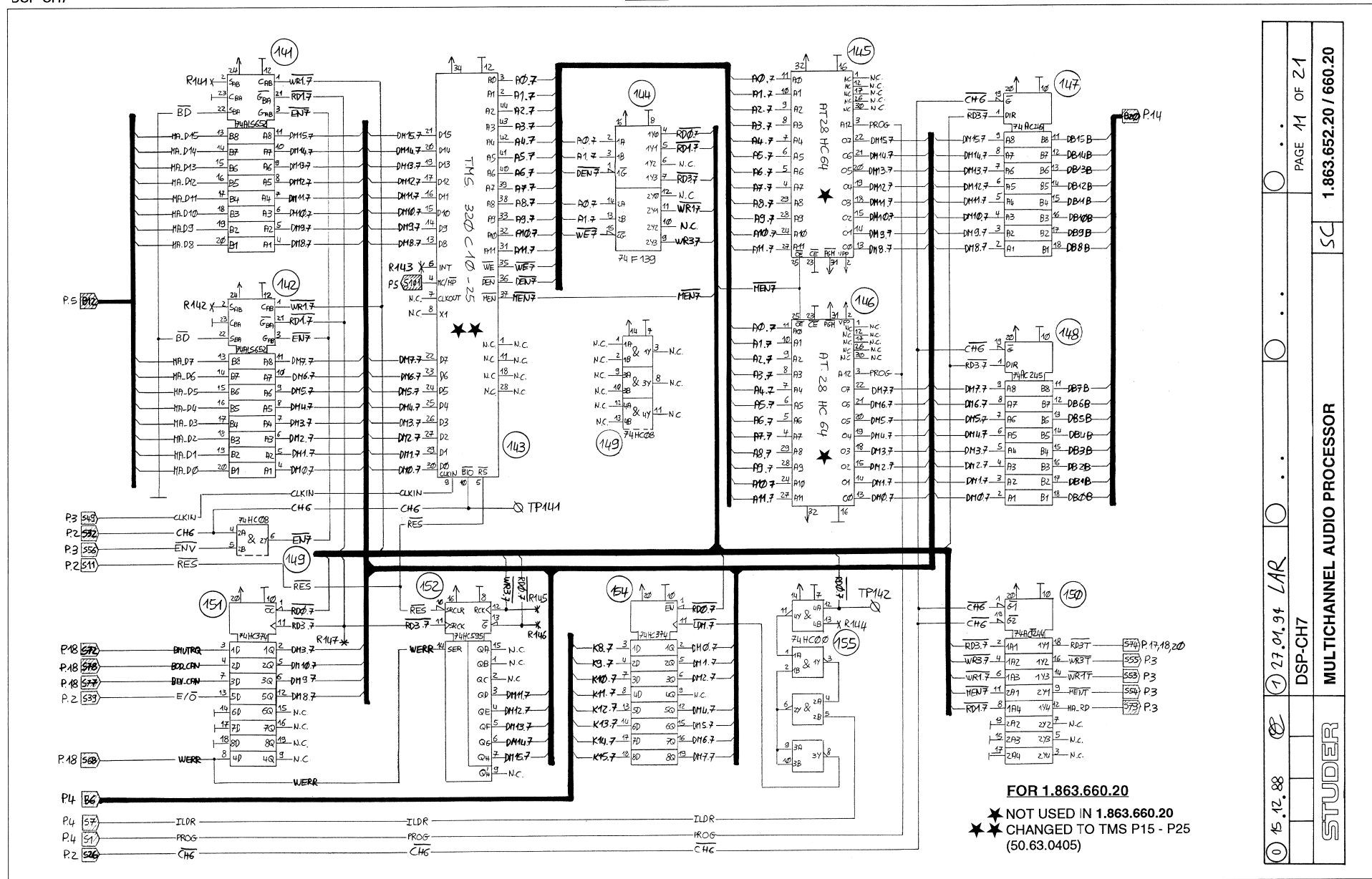
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MULTICHANNEL AUDIO PROCESSOR

DSP-CH6

STUDER

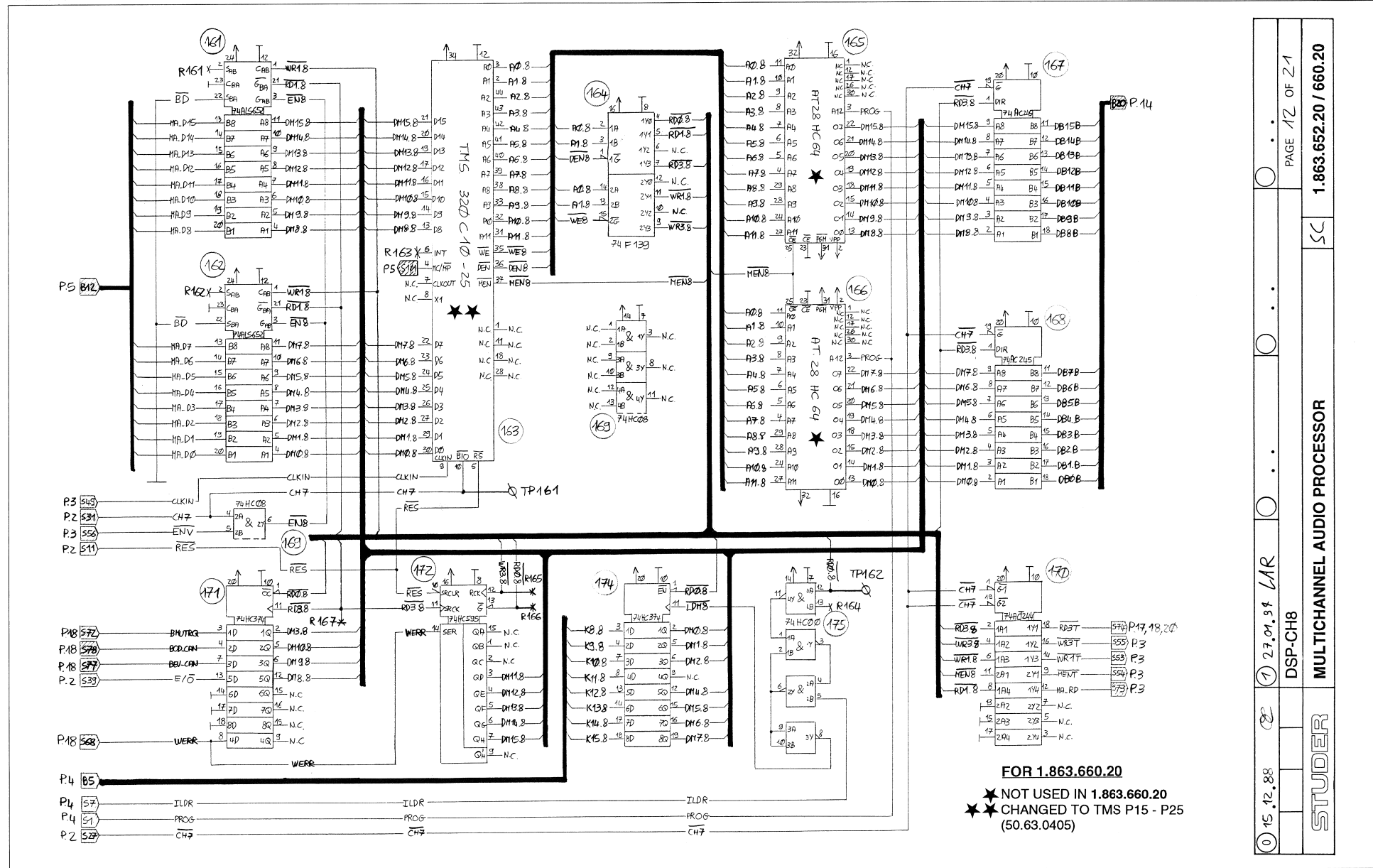
MULTICHANNEL AUDIO PROCESSOR 1.863.652.20 / 1.863.660.20  
-DSP-CH7



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 DSP-CH7  
 MULTICHANNEL AUDIO PROCESSOR  
 SC  
 PAGE 11 OF 21  
 1.863.652.20 / 660.20

FOR 1.863.660.20

- ★ NOT USED IN 1.863.660.20
- ★★ CHANGED TO TMS P15 - P25 (50.63.0405)

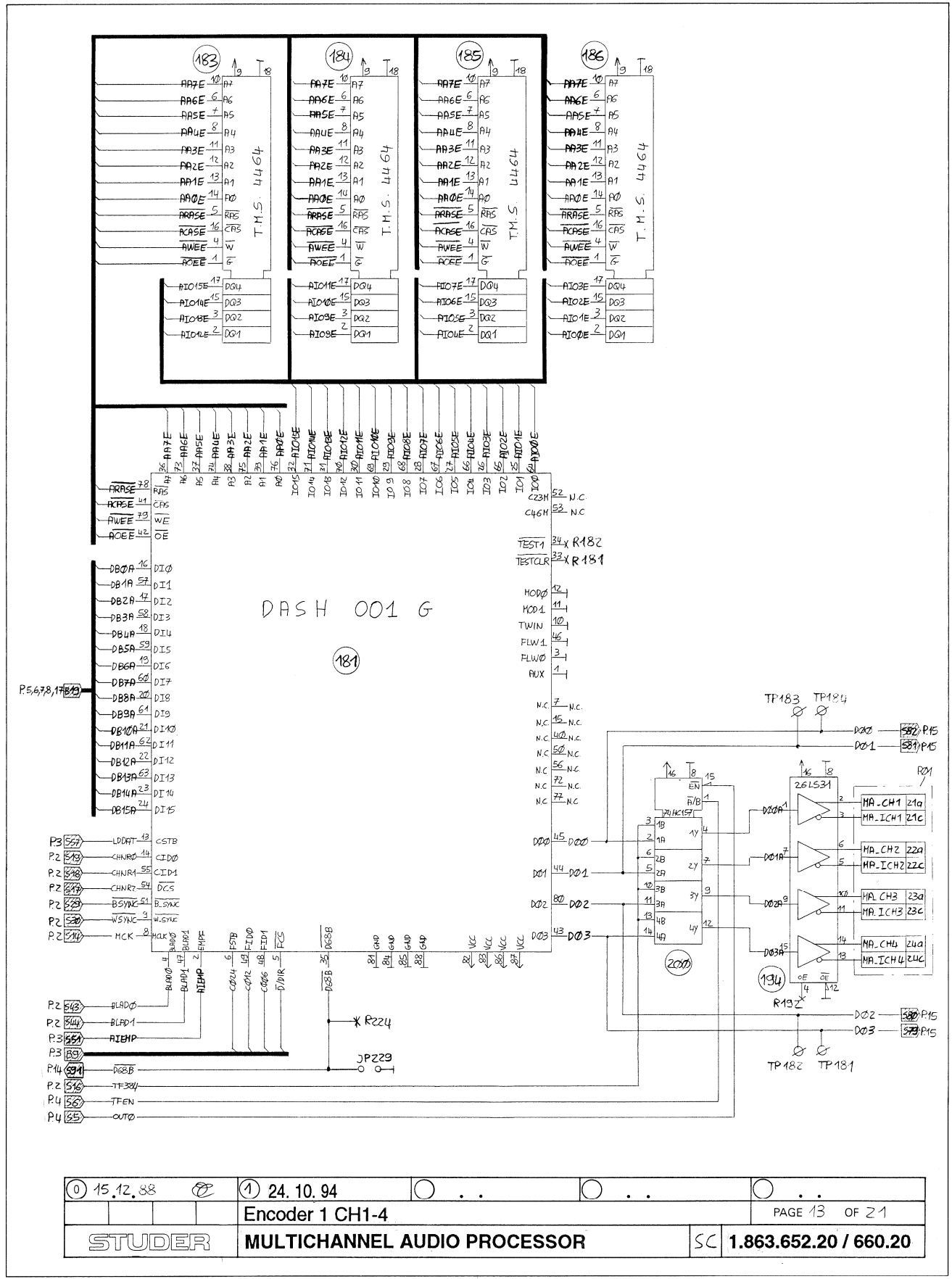


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 (50.63.0405)

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|-----------|--------------|-----------------------|
| 015.12.88 | 27.01.91 LAR | PAGE 12 OF 21         |
| DSP-CH8   |              | 1.863.652.20 / 660.20 |
| STUDER    |              | SC                    |

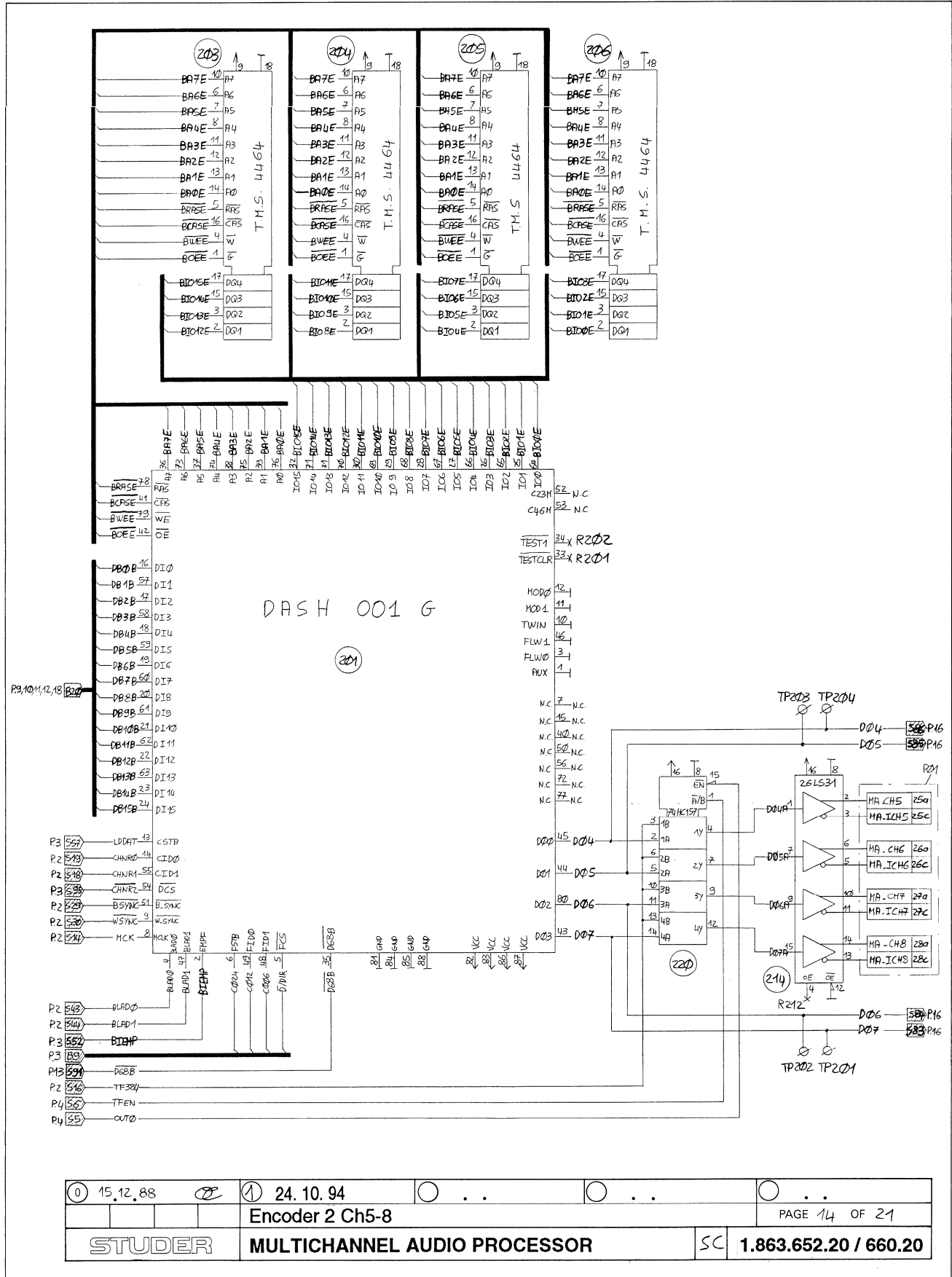


MULTICHANNEL AUDIO PROCESSOR 1.863.652.20 / 1.863.660.20  
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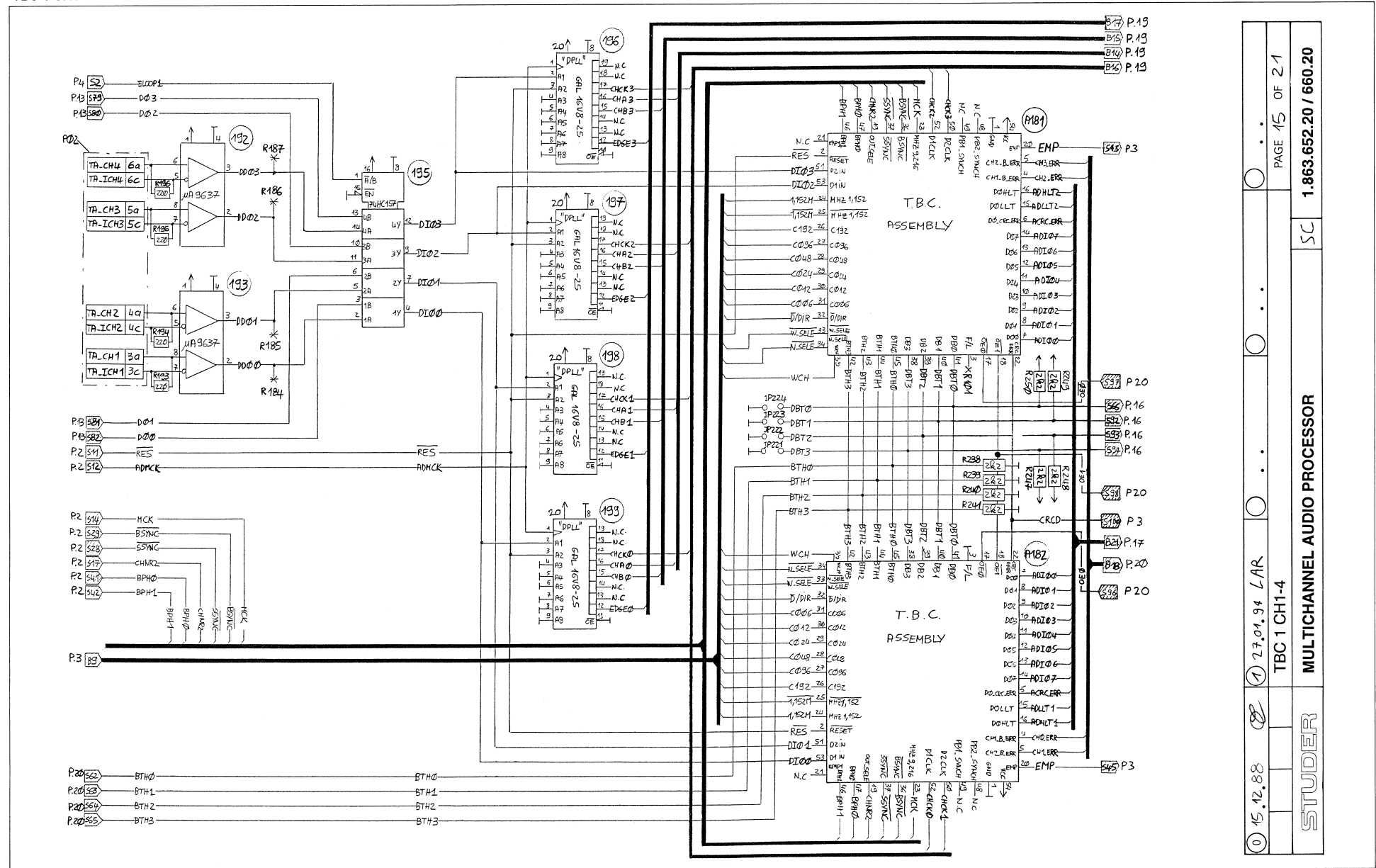


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| ① 15.12.88      | ① 24.10.94 | ○ . .                        | ○ . .         | ○ . .                    |
| Encoder 1 CH1-4 |            |                              | PAGE 13 OF 21 |                          |
| STUDER          |            | MULTICHANNEL AUDIO PROCESSOR |               | SC 1.863.652.20 / 660.20 |

MULTICHANNEL AUDIO PROCESSOR 1.863.652.20 / 1.863.660.20  
-Encoder 2 Ch5-8

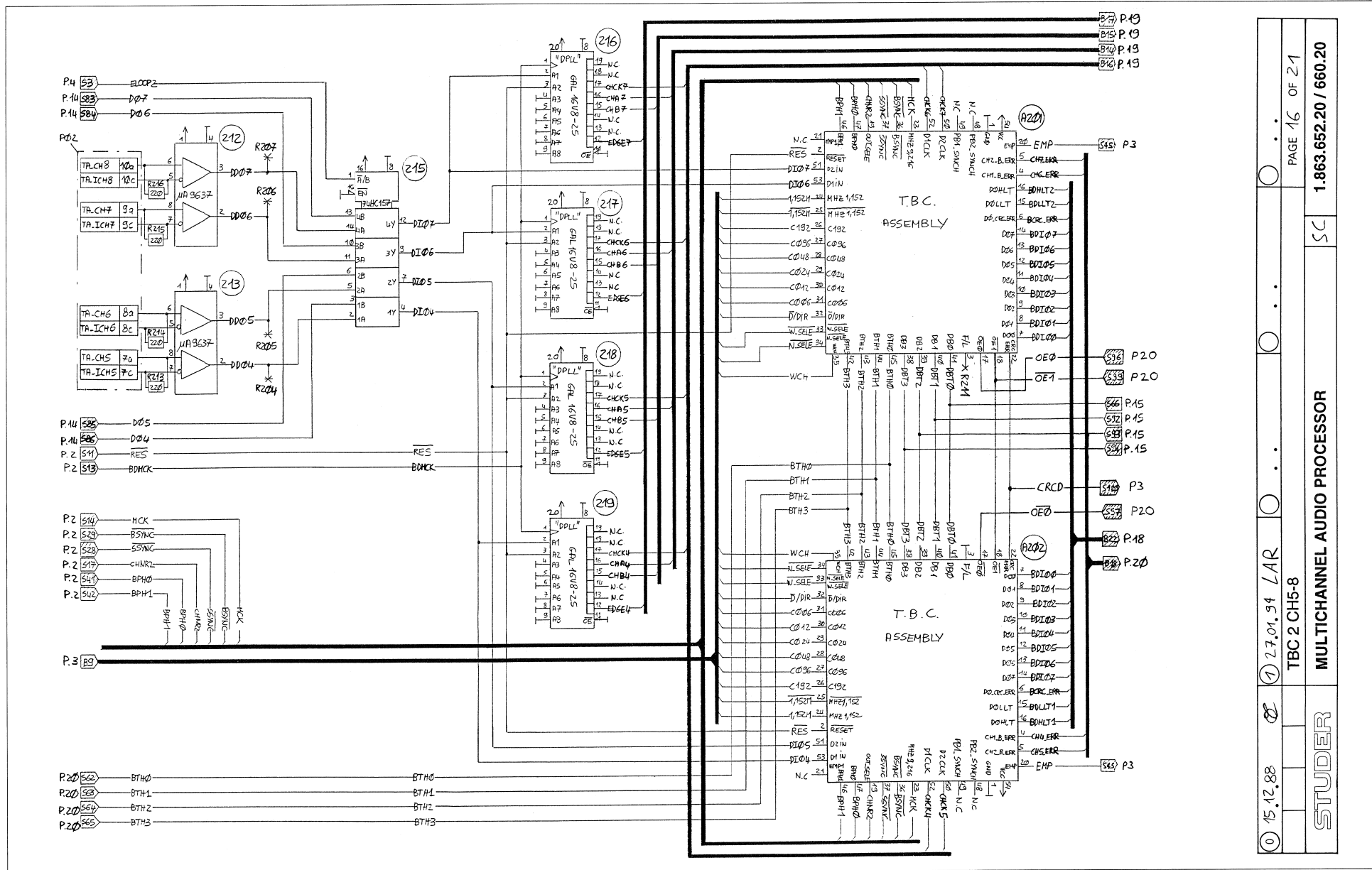


MULTICHANNEL AUDIO PROCESSOR 1.863.652.20 / 1.863.660.20  
-TBC 1 CH1-4



|                              |              |                       |
|------------------------------|--------------|-----------------------|
| 0 15.12.88                   | 27.01.94 LAR | PAGE 15 OF 21         |
| 1                            | TBC 1 CH1-4  | 1.863.652.20 / 660.20 |
| STUDIER                      |              | SC                    |
| MULTICHANNEL AUDIO PROCESSOR |              |                       |

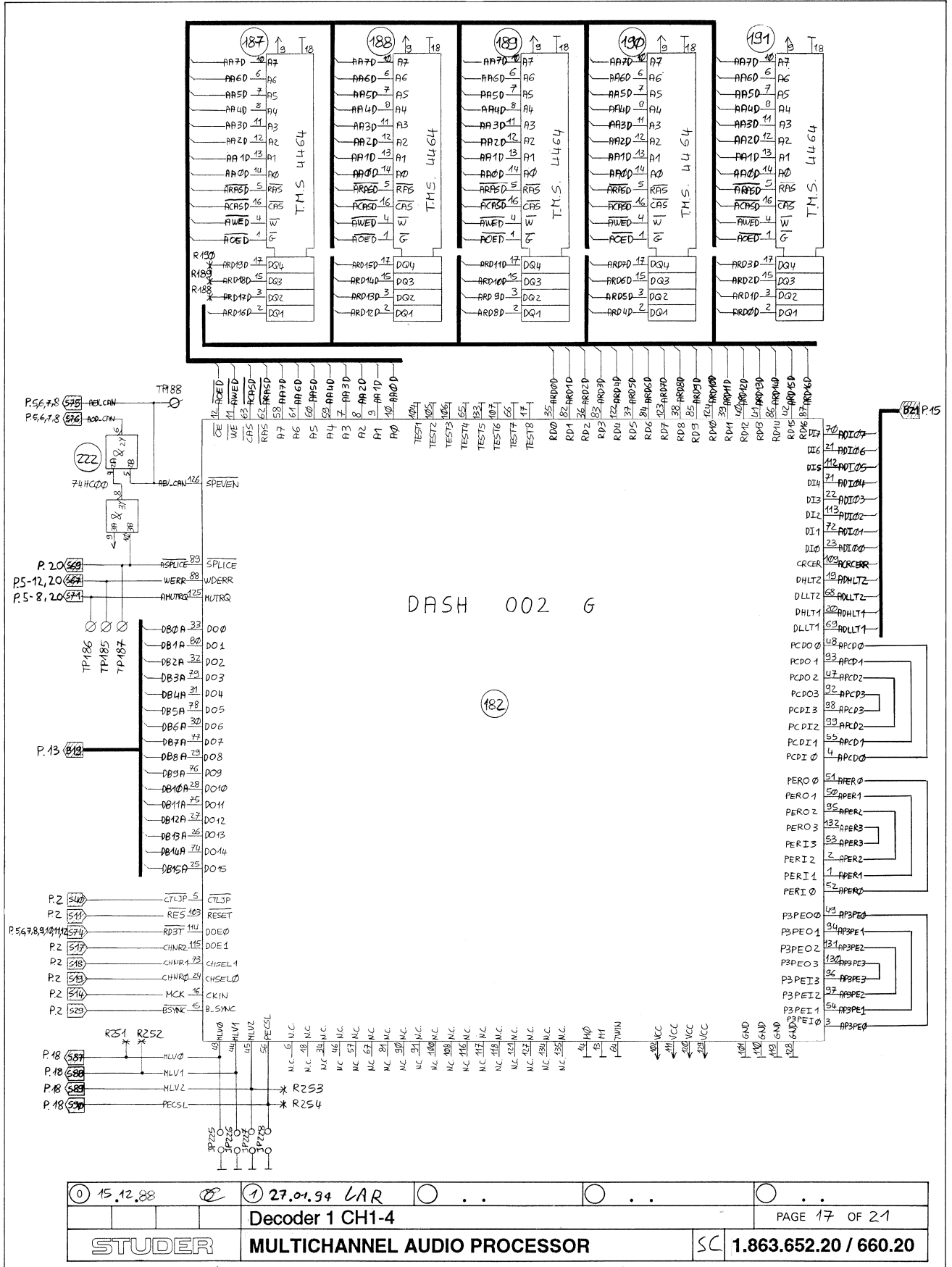
MULTICHANNEL AUDIO PROCESSOR 1.863.652.20 / 1.863.660.20  
-TBC 2 CH5-8



|                              |                |                       |
|------------------------------|----------------|-----------------------|
| 0 15.12.88                   | 1 27.01.94 LAR | PAGE 16 OF 21         |
| TBC 2 CH5-8                  |                | 1.863.652.20 / 660.20 |
| MULTICHANNEL AUDIO PROCESSOR |                | SC                    |

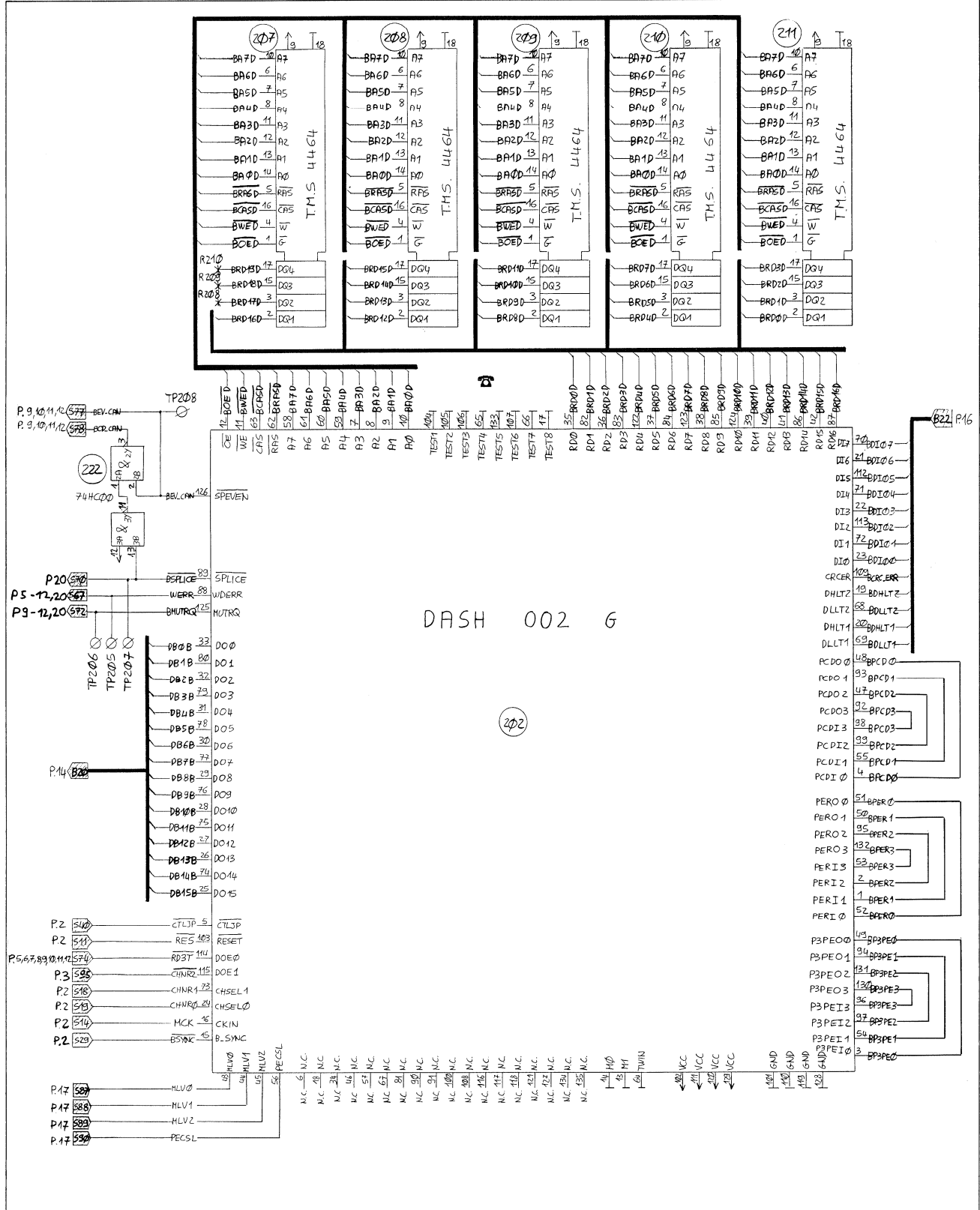
MULTICHANNEL AUDIO PROCESSOR 1.863.652.20 / 1.863.660.20

-Decoder 1 CH1-4



MULTICHANNEL AUDIO PROCESSOR 1.863.652.20 / 1.863.660.20

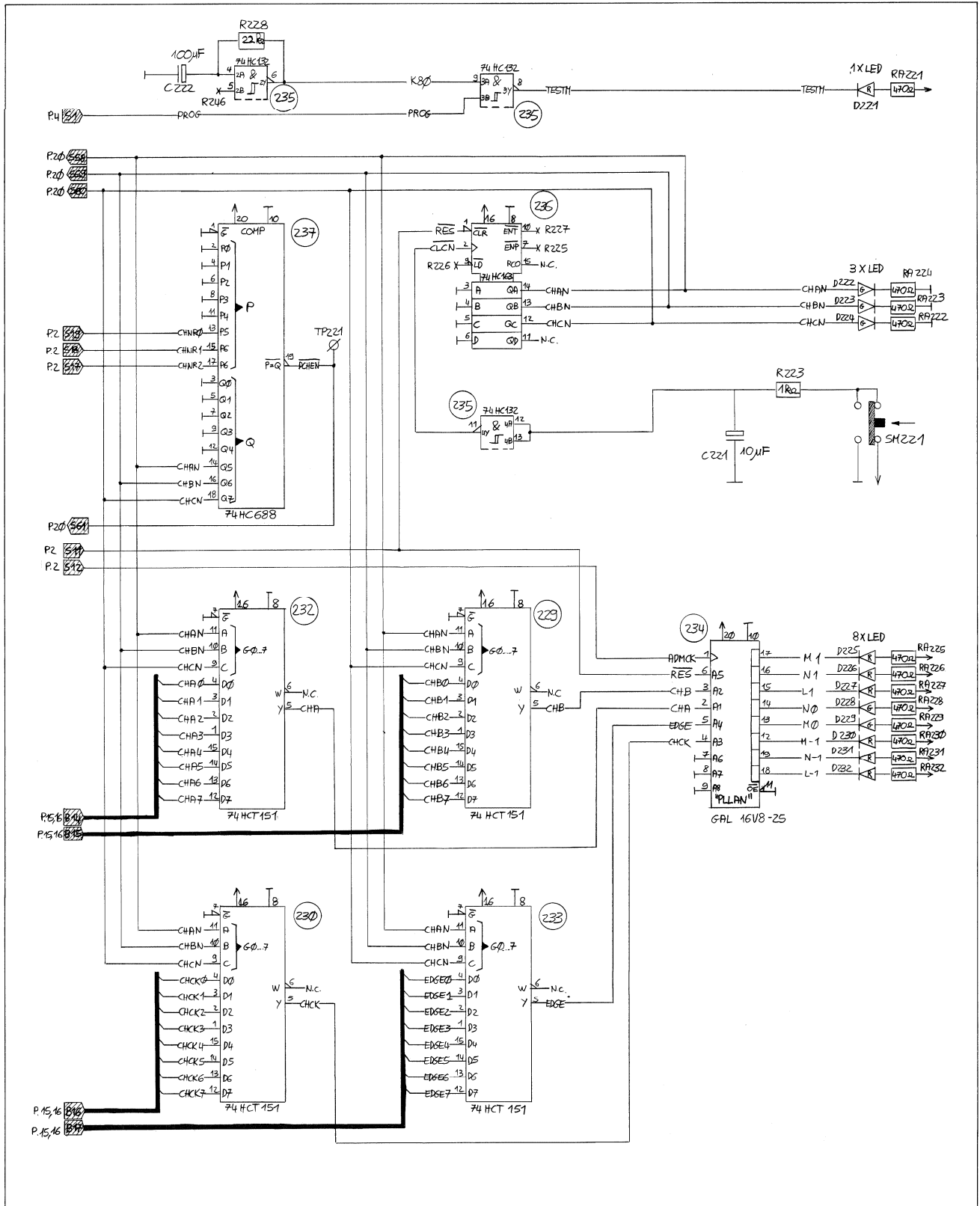
-Decoder 2 CH5-8



|                              |                |         |                 |                       |
|------------------------------|----------------|---------|-----------------|-----------------------|
| ① 15.12.88                   | ② 27.01.94 LAR | ③ . . . | ④ . . .         | ⑤ . . .               |
| STUDER                       |                |         | Decoder 2 CH5-8 |                       |
| MULTICHANNEL AUDIO PROCESSOR |                |         | SC              | 1.863.652.20 / 660.20 |
|                              |                |         |                 | PAGE 18 OF 21         |

MULTICHANNEL AUDIO PROCESSOR 1.863.652.20 / 1.863.660.20

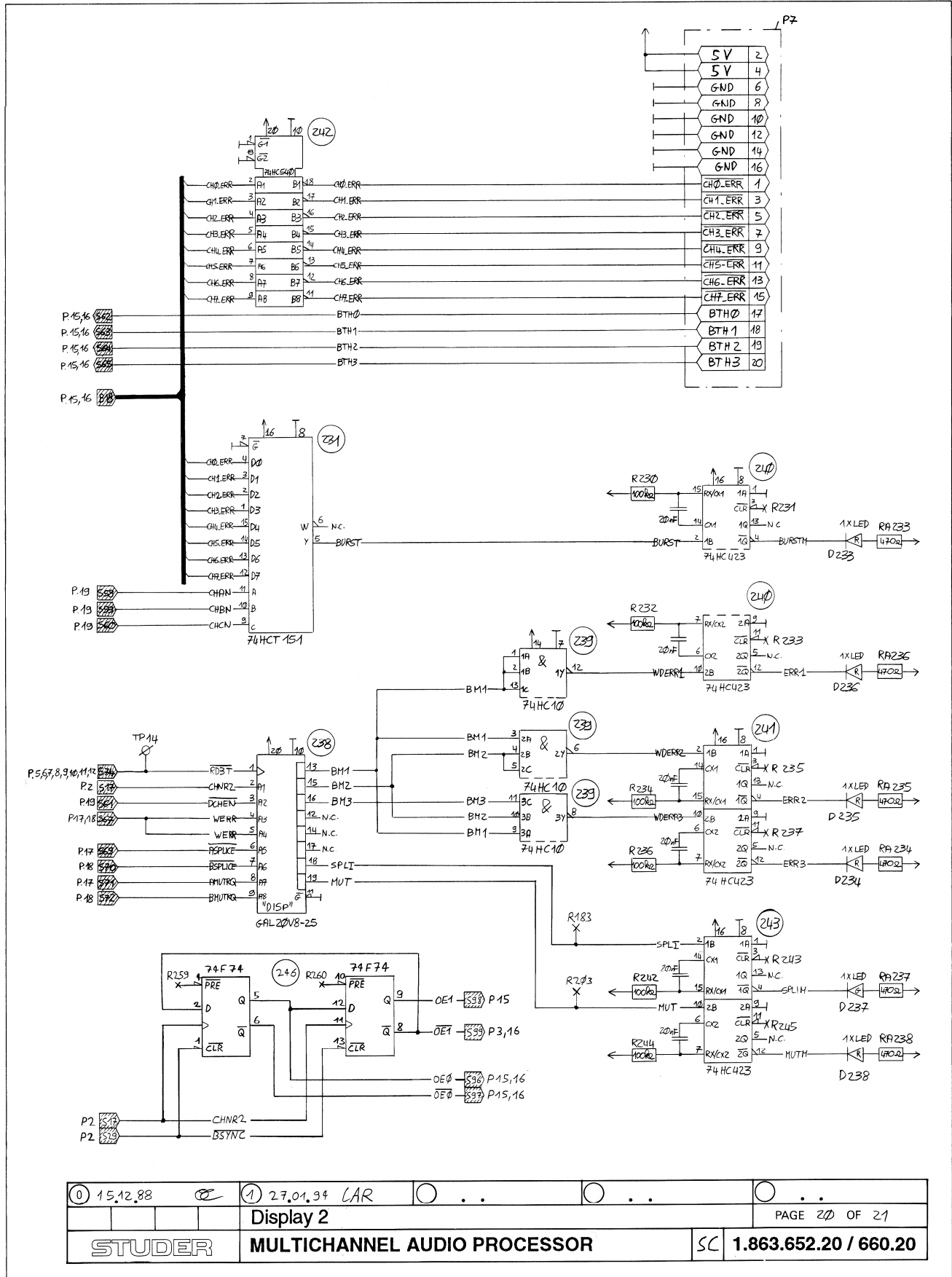
-Display 1



|            |            |                              |               |                          |
|------------|------------|------------------------------|---------------|--------------------------|
| ① 15.12.88 | ① 24.10.94 | ○ . .                        | ○ . .         | ○ . .                    |
| Display 1  |            |                              | PAGE 19 OF 21 |                          |
| STUDER     |            | MULTICHANNEL AUDIO PROCESSOR |               | SC 1.863.652.20 / 660.20 |

MULTICHANNEL AUDIO PROCESSOR 1.863.652.20 / 1.863.660.20

-Display 2



|            |                |      |                              |                          |
|------------|----------------|------|------------------------------|--------------------------|
| ① 15.12.88 | ① 27.01.94 CAR | ○ .. | ○ ..                         | ○ ..                     |
| Display 2  |                |      | PAGE 20 OF 21                |                          |
| STUDER     |                |      | MULTICHANNEL AUDIO PROCESSOR | SC 1.863.652.20 / 660.20 |



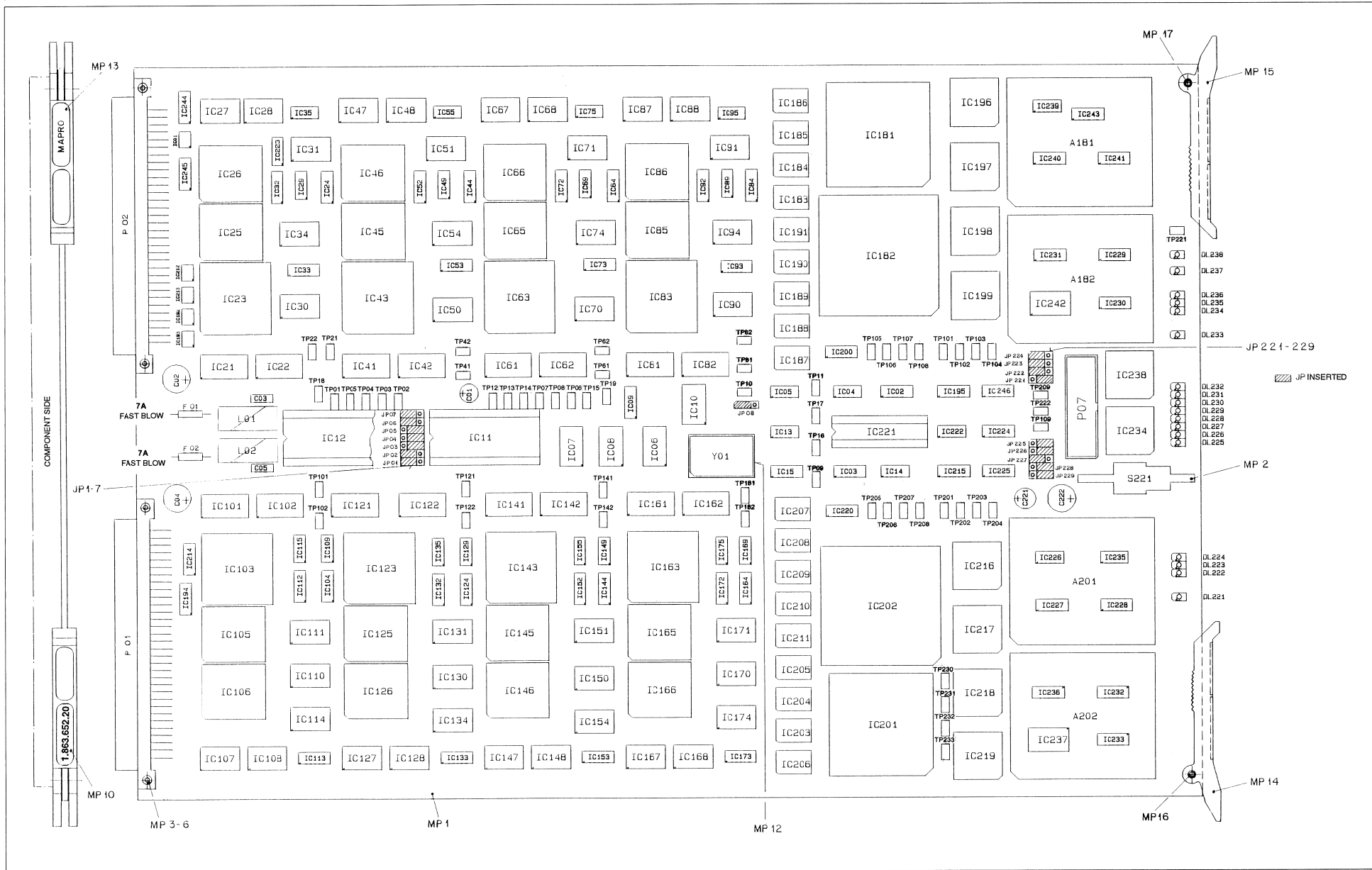
MULTICHANNEL AUDIO PROCESSOR 1.863.652.20 / 1.863.660.20

-Signal Bus List



| SIGNAL  |   | BUS   |  |
|---|---|---|--|
| 51 "PROG" PAGE: 1, 5, 6, 7, 8, 9, 10, 11, 12                      | 544 "BEMP4" PAGE: 3, 16 (not used)                    | B1 PAGE: 4, 8                               |  |
| 52 "ELCOF" PAGE: 4, 15  | 545 "BEMP2" PAGE: 13, 16 (not used)                   | B2 PAGE: 4, 7                               |  |
| 53 "ELCOF" PAGE: 4, 16  | 546 "CLKIN" PAGE: 13, 5, 6, 7, 8, 9, 10, 11, 12       | B3 PAGE: 4, 6                               |  |
| 54 "OUTP" PAGE: 4, 2  | 547 "WR21" PAGE: 13, 5                                | B4 PAGE: 4, 5                               |  |
| 55 "OUT0" PAGE: 4, 13, 14   | 548 "ATEMP" PAGE: 13, 13                              | B5 PAGE: 4, 12                              |  |
| 56 "ITEN" PAGE: 4, 13, 14   | 549 "BITEMP" PAGE: 13, 14                             | B6 PAGE: 4, 11                              |  |
| 57 "ILDR" PAGE: 4, 5, 6, 7, 8, 9, 10, 11, 12                      | 550 "WRRT" PAGE: 13, 5, 6, 7, 8, 9, 10, 11, 12        | B7 PAGE: 4, 10                              |  |
| 58 "RCK1" PAGE: 4, 3  | 551 "WENT" PAGE: 13, 5, 6, 7, 8, 9, 10, 11, 12        | B8 PAGE: 4, 9                               |  |
| 59 "RCK2" PAGE: 4, 3  | 552 "WRST" PAGE: 13, 5, 6, 7, 8, 9, 10, 11, 12        | B9 PAGE: 3, 13, 14, 15, 16                  |  |
| 60 "ILD" PAGE: 4, 3   | 553 "ENV" PAGE: 13, 5, 6, 7, 8, 9, 10, 11, 12         | B10 PAGE: 3, 4                              |  |
| 61 "RES" PAGE: 4, 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 | 554 "LDRT" PAGE: 3, 13, 14                            | B11 PAGE: 3, 14                             |  |
| 62 "RPMX" PAGE: 2, 15, 16   | 555 "CHAN" PAGE: 13, 20                               | B12 PAGE: 5, 6, 7, 8, 9, 10, 11, 12         |  |
| 63 "BPHK" PAGE: 2, 16   | 556 "CHAN" PAGE: 13, 20                               | B13 PAGE: 4, 5                              |  |
| 64 "RCK" PAGE: 2, 3, 13, 14, 15, 16, 17                           | 557 "CHCN" PAGE: 13, 20                               | B14 PAGE: 15, 16, 13                        |  |
| 65 "BD" PAGE: 2, 3, 5, 6, 7, 8, 9, 10, 11, 12                     | 558 "DCHM" PAGE: 13, 20                               | B15 PAGE: 15, 16, 13                        |  |
| 66 "TRBU" PAGE: 2, 13, 14   | 559 "BTH0" PAGE: 15, 16, 20                           | B16 PAGE: 15, 16, 13                        |  |
| 67 "CHNR2" PAGE: 2, 3, 13, 14, 15, 16, 17, 18, 20                 | 560 "BTM1" PAGE: 15, 16, 20                           | B17 PAGE: 15, 16, 13                        |  |
| 68 "CHNR1" PAGE: 2, 3, 13, 14, 15, 16, 17                         | 561 "BTM2" PAGE: 15, 16, 20                           | B18 PAGE: 15, 16, 20                        |  |
| 69 "CHNR0" PAGE: 2, 13, 14, 17, 18                                | 562 "BTH3" PAGE: 15, 16, 20                           | B19 PAGE: 5, 6, 7, 8, 13, 17                |  |
| 70 "CH0" PAGE: 2, 5   | 563 "DBT0" PAGE: 15, 16                               | B20 PAGE: 9, 10, 11, 12, 14, 18             |  |
| 71 "CH1" PAGE: 2, 6   | 564 "WEER" PAGE: 5, 6, 7, 8, 13, 20                   | B21 PAGE: 15, 17                            |  |
| 72 "CH2" PAGE: 2, 7   | 565 "BWEER" PAGE: 3, 10, 11, 12, 13, 20 (not used)    | B22 PAGE: 16, 18                            |  |
| 73 "CH3" PAGE: 2, 8   | 566 "RFLICE" PAGE: 17, 20                             |   |  |
| 74 "CH4" PAGE: 2, 9   | 567 "BSPUCE" PAGE: 18, 20                             |   |  |
| 75 "CH5" PAGE: 2, 10  | 568 "NUTRO" PAGE: 5, 6, 7, 8, 17, 20                  |   |  |
| 76 "CH6" PAGE: 2, 11  | 569 "BHTRO" PAGE: 9, 10, 11, 13, 18, 20               |   |  |
| 77 "CH7" PAGE: 2, 12  | 570 "NAL0" PAGE: 3, 5, 6, 7, 8, 9, 10, 11, 12         |   |  |
| 78 "SSYK" PAGE: 2, 15, 16   | 571 "RDTT" PAGE: 1, 5, 6, 7, 8, 9, 10, 11, 13, 18, 20 |   |  |
| 79 "BSYK" PAGE: 2, 3, 13, 14, 15, 16, 17, 18, 20                  | 572 "RELOW" PAGE: 5, 6, 7, 8, 17                      |   |  |
| 80 "WSYK" PAGE: 2, 13, 14   | 573 "BOLCM" PAGE: 5, 6, 7, 8, 17                      |   |  |
| 81 "CH7" PAGE: 3, 12  | 574 "BELOW" PAGE: 9, 10, 11, 12, 18                   | 534 "OE0" PAGE: 15, 16, 20                  |  |
| 82 "CH5" PAGE: 3, 11  | 575 "BOLCM" PAGE: 9, 10, 11, 12, 18                   | 535 "OE1" PAGE: 15, 16, 20                  |  |
| 83 "CH5" PAGE: 3, 9   | 576 "D03" PAGE: 13, 15                                | 536 "OE1" PAGE: 15, 20                      |  |
| 84 "CH4" PAGE: 3, 9   | 577 "D02" PAGE: 13, 15                                | 537 "OE1" PAGE: 3, 16, 20                   |  |
| 85 "CH3" PAGE: 3, 8   | 578 "D01" PAGE: 13, 15                                | 538 "CRCD" PAGE: 3, 15, 16                  |  |
| 86 "CH2" PAGE: 3, 7   | 579 "D00" PAGE: 13, 15                                | 539 "MC/HP" PAGE: 5, 6, 7, 8, 9, 10, 11, 12 |  |
| 87 "CH1" PAGE: 3, 6   | 580 "D06" PAGE: 14, 16                                |   |  |
| 88 "CH0" PAGE: 3, 5   | 581 "D05" PAGE: 14, 16                                |   |  |
| 89 "E/S" PAGE: 2, 5, 6, 7, 8, 9, 10, 11, 12                       | 582 "D04" PAGE: 14, 16                                |   |  |
| 90 "CTCT" PAGE: 2, 17, 18   | 583 "D03" PAGE: 14, 16                                |   |  |
| 91 "BPH0" PAGE: 2, 15, 16   | 584 "ML0" PAGE: 17, 18                                |   |  |
| 92 "BLAD0" PAGE: 2, 13, 14  | 585 "ML1" PAGE: 17, 18                                |   |  |
| 93 "BLAD1" PAGE: 12, 13, 14                                       | 586 "ML2" PAGE: 17, 18                                |   |  |
| 94 "EMF" PAGE: 3, 15, 16  | 587 "DECB" PAGE: 13, 14                               |   |  |
| 95 "BEMR2" PAGE: 3, 15 (not used)                                 | 588 "DBT2" PAGE: 15, 16                               |   |  |
| 96 "CHNR2" PAGE: 3, 14, 18  | 589 "DBT3" PAGE: 15, 16                               |   |  |
| 97 "CHNR1" PAGE: 3, 14, 18  |   |   |  |
| 98 "CHNR0" PAGE: 3, 14, 18  |   |   |  |

MULTICHANNEL AUDIO PROCESSOR 1.863.652.20







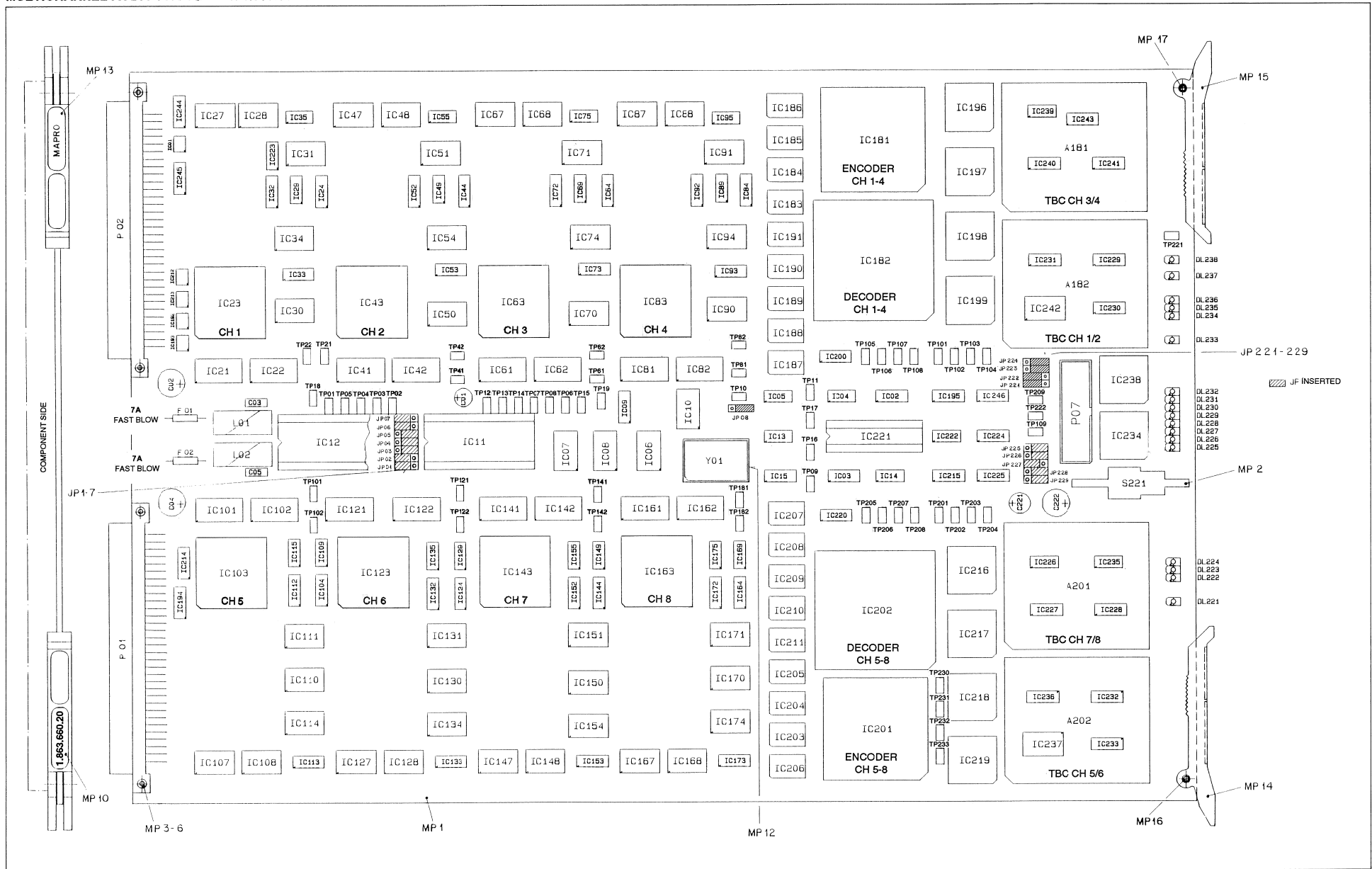


MULTICHANNEL AUDIO PROCESSOR 1.863.652.20

| Ad      | POS.       | REF.No.              | DESCRIPTION | MANUFACTURER | Ad  | POS.       | REF.No.                    | DESCRIPTION | MANUFACTURER |
|---------|------------|----------------------|-------------|--------------|---|------------|----------------------------|-------------|--------------|
| R..191  | 57.60.1102 | 1 k                  | 20%         | ANY          | XIC..63   | 53.03.2244 | PLCC-SOCKET, 44-PIN        | ANY         |              |
| R..192  | 57.60.1102 | 1 k                  | 20%         | ANY          | XIC..65   | 53.03.2232 | PLCC-SOCKET, 32-PIN        | ANY         |              |
| R..193  | 57.60.1221 | 220 E                | 5%          | ANY          | XIC..66   | 53.03.2232 | PLCC-SOCKET, 32-PIN        | ANY         |              |
| R..194  | 57.60.1271 | 220 F                | 5%          | ANY          | XIC..83   | 53.03.2244 | PLCC-SOCKET, 44-PIN        | ANY         |              |
| R..195  | 57.60.1221 | 220 E                | 5%          | ANY          | XIC..85   | 53.03.2232 | PLCC-SOCKET, 32-PIN        | ANY         |              |
| R..196  | 57.60.1221 | 220 E                | 5%          | ANY          | XIC..86   | 53.03.2232 | PLCC-SOCKET, 32-PIN        | ANY         |              |
| R..201  | 57.60.1102 | 1 k                  | 20%         | ANY          | XIC.103   | 53.03.2244 | PLCC-SOCKET, 44-PIN        | ANY         |              |
| R..202  | 57.60.1102 | 1 k                  | 20%         | ANY          | XIC.105   | 53.03.2232 | PLCC-SOCKET, 32-PIN        | ANY         |              |
| R..203  | 57.60.1332 | 3.3 k                | 20%         | ANY          | XIC.106   | 53.03.2232 | PLCC-SOCKET, 32-PIN        | ANY         |              |
| R..204  | 57.60.1332 | 3.3 k                | 20%         | ANY          | XIC.123   | 53.03.2244 | PLCC-SOCKET, 44-PIN        | ANY         |              |
| R..205  | 57.60.1332 | 3.3 k                | 20%         | ANY          | XIC.125   | 53.03.2232 | PLCC-SOCKET, 32-PIN        | ANY         |              |
| R..206  | 57.60.1332 | 3.3 k                | 20%         | ANY          | XIC.126   | 53.03.2232 | PLCC-SOCKET, 32-PIN        | ANY         |              |
| R..207  | 57.60.1332 | 3.3 k                | 20%         | ANY          | XIC.143   | 53.03.2244 | PLCC-SOCKET, 44-PIN        | ANY         |              |
| R..208  | 57.60.1332 | 3.3 k                | 20%         | ANY          | XIC.145   | 53.03.2232 | PLCC-SOCKET, 32-PIN        | ANY         |              |
| R..209  | 57.60.1332 | 3.3 k                | 20%         | ANY          | XIC.146   | 53.03.2232 | PLCC-SOCKET, 32-PIN        | ANY         |              |
| R..210  | 57.60.1332 | 3.3 k                | 20%         | ANY          | XIC.163   | 53.03.2244 | PLCC-SOCKET, 44-PIN        | ANY         |              |
| R..211  | 57.60.1102 | 1 k                  | 20%         | ANY          | XIC.165   | 53.03.2232 | PLCC-SOCKET, 32-PIN        | ANY         |              |
| R..212  | 57.60.1102 | 1 k                  | 20%         | ANY          | XIC.166   | 53.03.2232 | PLCC-SOCKET, 32-PIN        | ANY         |              |
| R..213  | 57.60.1221 | 220 E                | 5%          | ANY          | XIC.181   | 53.03.2000 | PGA-SOCKET, 89-PIN         | ANY         |              |
| R..214  | 57.60.1221 | 220 E                | 5%          | ANY          | XIC.182   | 53.03.2001 | PGA-SOCKET, 135-PIN        | ANY         |              |
| R..215  | 57.60.1221 | 220 E                | 5%          | ANY          | XIC.196   | 53.03.2220 | PLCC-SOCKET, 20-PIN        | ANY         |              |
| R..216  | 57.60.1221 | 220 E                | 5%          | ANY          | XIC.197   | 53.03.2220 | PLCC-SOCKET, 20-PIN        | ANY         |              |
| R..222  | 57.60.1102 | 1 k                  | 20%         | ANY          | XIC.198   | 53.03.2220 | PLCC-SOCKET, 20-PIN        | ANY         |              |
| R..223  | 57.60.1102 | 1 k                  | 20%         | ANY          | XIC.199   | 53.03.2220 | PLCC-SOCKET, 20-PIN        | ANY         |              |
| R..224  | 57.60.1332 | 3.3 k                | 20%         | ANY          | XIC.201   | 53.03.2000 | PGA-SOCKET, 89-PIN         | ANY         |              |
| R..225  | 57.60.1102 | 1 k                  | 20%         | ANY          | XIC.202   | 53.03.2001 | PGA-SOCKET, 135-PIN        | ANY         |              |
| R..226  | 57.60.1102 | 1 k                  | 20%         | ANY          | XIC.216   | 53.03.2220 | PLCC-SOCKET, 20-PIN        | ANY         |              |
| R..227  | 57.60.1102 | 1 k                  | 20%         | ANY          | XIC.217   | 53.03.2220 | PLCC-SOCKET, 20-PIN        | ANY         |              |
| R..228  | 57.60.1223 | 22 k                 | 20%         | ANY          | XIC.218   | 53.03.2220 | PLCC-SOCKET, 20-PIN        | ANY         |              |
| R..229  | 57.60.1102 | 1 k                  | 20%         | ANY          | XIC.219   | 53.03.2220 | PLCC-SOCKET, 20-PIN        | ANY         |              |
| R..230  | 57.60.1104 | 100 k                | 20%         | ANY          | XIC.221   | 53.03.0182 | DIL-SOCKET, 24-PIN, MOLDED | ANY         |              |
| R..231  | 57.60.1102 | 1 k                  | 20%         | ANY          | XIC.234   | 53.03.2220 | PLCC-SOCKET, 20-PIN        | ANY         |              |
| R..232  | 57.60.1104 | 100 k                | 20%         | ANY          | XIC.238   | 53.03.2220 | PLCC-SOCKET, 20-PIN        | ANY         |              |
| R..233  | 57.60.1102 | 1 k                  | 20%         | ANY          | XIC.240   | 53.03.0218 | SINGLE LINE, QTY. 216      | ANY         |              |
| R..234  | 57.60.1104 | 100 k                | 20%         | ANY          | Y....1  | 89.01.1808 | Y-OSC, 27 MHZ              | ANY         |              |
| R..235  | 57.60.1102 | 1 k                  | 20%         | ANY          | REMARKS:  |            |                            |             |              |
| R..236  | 57.60.1104 | 100 k                | 20%         | ANY          | SW-Inhalt von IC 25,45,65,85,105,145,165 = SW-NR.1.863.913.20 |            |                            |             |              |
| R..237  | 57.60.1102 | 1 k                  | 20%         | ANY          | SW-Inhalt von IC 26,46,66,86,106,146,166 = SW-NR.1.863.914.20 |            |                            |             |              |
| R..238  | 57.60.1222 | 2.2 k                | 20%         | ANY          | MANUFACTURERS:  |            |                            |             |              |
| R..239  | 57.60.1222 | 2.2 k                | 20%         | ANY          | St = STUDER So = SONY At = ATMEL Ti = TEXAS INSTRUMENTS       |            |                            |             |              |
| R..240  | 57.60.1222 | 2.2 k                | 20%         | ANY          | ABBREVIATIONS:  |            |                            |             |              |
| R..241  | 57.60.1222 | 2.2 k                | 20%         | ANY          | CER = CERAMIC / FILM = FILM TYPE / XF = CLAMP FOR FUSES /     |            |                            |             |              |
| R..242  | 57.60.1104 | 100 k                | 20%         | ANY          | XIC = IC SOCKET   |            |                            |             |              |
| R..243  | 57.60.1102 | 1 k                  | 20%         | ANY          | 1.863.652.20 MCH - AUDIO - PROCESSOR ML 93/08/2700            |            |                            |             |              |
| R..244  | 57.60.1104 | 100 k                | 20%         | ANY          |   |            |                            |             |              |
| R..245  | 57.60.1102 | 1 k                  | 20%         | ANY          |   |            |                            |             |              |
| R..246  | 57.60.1102 | 1 k                  | 20%         | ANY          |   |            |                            |             |              |
| R..247  | 57.60.1222 | 2.2 k                | 20%         | ANY          |   |            |                            |             |              |
| R..248  | 57.60.1222 | 2.2 k                | 20%         | ANY          |   |            |                            |             |              |
| R..249  | 57.60.1222 | 2.2 k                | 20%         | ANY          |   |            |                            |             |              |
| R..250  | 57.60.1222 | 2.2 k                | 20%         | ANY          |   |            |                            |             |              |
| R..251  | 57.60.1332 | 3.3 k                | 20%         | ANY          |   |            |                            |             |              |
| R..252  | 57.60.1332 | 3.3 k                | 20%         | ANY          |   |            |                            |             |              |
| R..253  | 57.60.1332 | 3.3 k                | 20%         | ANY          |   |            |                            |             |              |
| R..254  | 57.60.1332 | 3.3 k                | 20%         | ANY          |   |            |                            |             |              |
| R..255  | 57.60.1332 | 3.3 k                | 20%         | ANY          |   |            |                            |             |              |
| R..256  | 57.60.1102 | 1 k                  | 20%         | ANY          |   |            |                            |             |              |
| R..257  | 57.60.1102 | 1 k                  | 20%         | ANY          |   |            |                            |             |              |
| R..258  | 57.60.1102 | 1 k                  | 20%         | ANY          |   |            |                            |             |              |
| R..259  | 57.60.1332 | 3.3 k                | 20%         | ANY          |   |            |                            |             |              |
| R..260  | 57.60.1332 | 3.3 k                | 20%         | ANY          |   |            |                            |             |              |
| R..261  | 57.60.1332 | 3.3 k                | 20%         | ANY          |   |            |                            |             |              |
| R..1221 | 57.60.1471 | 470 E                | 20%         | ANY          |   |            |                            |             |              |
| R..1222 | 57.60.1471 | 470 E                | 20%         | ANY          |   |            |                            |             |              |
| R..1223 | 57.60.1471 | 470 E                | 20%         | ANY          |   |            |                            |             |              |
| R..1224 | 57.60.1471 | 470 E                | 20%         | ANY          |   |            |                            |             |              |
| R..1225 | 57.60.1471 | 470 E                | 20%         | ANY          |   |            |                            |             |              |
| R..1226 | 57.60.1471 | 470 E                | 20%         | ANY          |   |            |                            |             |              |
| R..1227 | 57.60.1471 | 470 E                | 20%         | ANY          |   |            |                            |             |              |
| R..1228 | 57.60.1471 | 470 E                | 20%         | ANY          |   |            |                            |             |              |
| R..1229 | 57.60.1471 | 470 E                | 20%         | ANY          |   |            |                            |             |              |
| R..1230 | 57.60.1471 | 470 E                | 20%         | ANY          |   |            |                            |             |              |
| R..1231 | 57.60.1471 | 470 E                | 20%         | ANY          |   |            |                            |             |              |
| R..1232 | 57.60.1471 | 470 E                | 20%         | ANY          |   |            |                            |             |              |
| R..1233 | 57.60.1471 | 470 E                | 20%         | ANY          |   |            |                            |             |              |
| R..1234 | 57.60.1471 | 470 E                | 20%         | ANY          |   |            |                            |             |              |
| R..1235 | 57.60.1471 | 470 E                | 20%         | ANY          |   |            |                            |             |              |
| R..1236 | 57.60.1471 | 470 E                | 20%         | ANY          |   |            |                            |             |              |
| R..1237 | 57.60.1471 | 470 E                | 20%         | ANY          |   |            |                            |             |              |
| R..1238 | 57.60.1471 | 470 E                | 20%         | ANY          |   |            |                            |             |              |
| R..1239 | 57.60.1332 | 3.3 k                | 20%         | ANY          |   |            |                            |             |              |
| S..221  | 55.15.0028 | TOGGLE-SWITCH, ON-ON |             | ANY          |   |            |                            |             |              |
| TP...1  | 54.02.0320 | TESTPOINT***QTY59*** |             | ANY          |   |            |                            |             |              |
| XIC..11 | 53.03.0173 | DIL-SOCKET, 28-PIN   |             | ANY          |   |            |                            |             |              |
| XIC..12 | 53.03.0173 | DIL-SOCKET, 28-PIN   |             | ANY          |   |            |                            |             |              |
| XIC..23 | 53.03.2244 | PLCC-SOCKET, 44-PIN  |             | ANY          |   |            |                            |             |              |
| XIC..25 | 53.03.2232 | PLCC-SOCKET, 32-PIN  |             | ANY          |   |            |                            |             |              |
| XIC..26 | 53.03.2232 | PLCC-SOCKET, 32-PIN  |             | ANY          |   |            |                            |             |              |
| XIC..43 | 53.03.2244 | PLCC-SOCKET, 44-PIN  |             | ANY          |   |            |                            |             |              |
| XIC..45 | 53.03.2232 | PLCC-SOCKET, 32-PIN  |             | ANY          |   |            |                            |             |              |
| XIC..46 | 53.03.2232 | PLCC-SOCKET, 32-PIN  |             | ANY          |   |            |                            |             |              |



MULTICHANNEL AUDIO PROCESSOR 1.863.660.20







MULTICHANNEL AUDIO PROCESSOR 1.863.660.20

| Ad     | ..POS.. | ..REF.No.. | DESCRIPTION                        | MANUFACTURER | Ad    | ..POS.. | ..REF.No.. | DESCRIPTION                        | MANUFACTURER |
|--------|---------|------------|------------------------------------|--------------|-------|---------|------------|------------------------------------|--------------|
| C...   | 155     | 59.60.1104 | 100 n 20%, GENERAL PURPOSE         | ANY          | IC... | 70      | 50.62.6244 | 74 ACT 244                         | ANY          |
| C...   | 204     | 59.60.1104 | 100 n 20%, GENERAL PURPOSE         | ANY          | IC... | 71      | 50.62.1374 | 74 HC 374                          | ANY          |
| C...   | 208     | 59.60.1104 | 100 n 20%, GENERAL PURPOSE         | ANY          | IC... | 72      | 50.62.1595 | 74 HC 595                          | ANY          |
| C...   | 209     | 59.60.1104 | 100 n 20%, GENERAL PURPOSE         | ANY          | IC... | 73      | 50.62.1595 | 74 HC 595                          | ANY          |
| C...   | 221     | 59.22.6100 | 10 u 20%, 10V, EL                  | ANY          | IC... | 74      | 50.62.1374 | 74 HC 374                          | ANY          |
| C...   | 222     | 59.22.4101 | 100 u 20%, 10V, EL                 | ANY          | IC... | 75      | 50.62.1000 | 74 HC 00                           | ANY          |
| C...   | 223     | 59.60.1223 | 22 n 20%, GENERAL PURPOSE          | ANY          | IC... | 81      | 50.62.2652 | 74 ALS 652                         | ANY          |
| C...   | 224     | 59.60.1223 | 22 n 20%, GENERAL PURPOSE          | ANY          | IC... | 82      | 50.62.2652 | 74 ALS 652                         | ANY          |
| C...   | 225     | 59.60.1223 | 22 n 20%, GENERAL PURPOSE          | ANY          | IC... | 83      | 50.63.0405 | TMS 320 P15 - 25 (SW 1.863.940.20) | ANY          |
| C...   | 226     | 59.60.1223 | 22 n 20%, GENERAL PURPOSE          | ANY          | IC... | 84      | 50.62.7139 | 74 F 139                           | ANY          |
| C...   | 227     | 59.60.1223 | 22 n 20%, GENERAL PURPOSE          | ANY          | IC... | 87      | 50.62.5245 | 74 AC 245                          | ANY          |
| C...   | 228     | 59.60.1223 | 22 n 20%, GENERAL PURPOSE          | ANY          | IC... | 88      | 50.62.5245 | 74 AC 245                          | ANY          |
| C...   | 229     | 59.60.1104 | 100 n 20%, GENERAL PURPOSE         | ANY          | IC... | 89      | 50.62.1008 | 74 HC 08                           | ANY          |
| C...   | 230     | 59.60.1104 | 100 n 20%, GENERAL PURPOSE         | ANY          | IC... | 90      | 50.62.6244 | 74 ACT 244                         | ANY          |
| C...   | 231     | 59.60.1104 | 100 n 20%, GENERAL PURPOSE         | ANY          | IC... | 91      | 50.62.1374 | 74 HC 374                          | ANY          |
| C...   | 232     | 59.60.1104 | 100 n 20%, GENERAL PURPOSE         | ANY          | IC... | 92      | 50.62.1595 | 74 HC 595                          | ANY          |
| C...   | 233     | 59.60.1104 | 100 n 20%, GENERAL PURPOSE         | ANY          | IC... | 93      | 50.62.1595 | 74 HC 595                          | ANY          |
| C...   | 234     | 59.60.1104 | 100 n 20%, GENERAL PURPOSE         | ANY          | IC... | 94      | 50.62.1374 | 74 HC 374                          | ANY          |
| C...   | 235     | 59.60.1104 | 100 n 20%, GENERAL PURPOSE         | ANY          | IC... | 95      | 50.62.1000 | 74 HC 00                           | ANY          |
| C...   | 236     | 59.60.1104 | 100 n 20%, GENERAL PURPOSE         | ANY          | IC... | 101     | 50.62.2652 | 74 ALS 652                         | ANY          |
| C...   | 237     | 59.60.1104 | 100 n 20%, GENERAL PURPOSE         | ANY          | IC... | 102     | 50.62.2652 | 74 ALS 652                         | ANY          |
| C...   | 238     | 59.60.1104 | 100 n 20%, GENERAL PURPOSE         | ANY          | IC... | 103     | 50.63.0405 | TMS 320 P15 - 25 (SW 1.863.940.20) | ANY          |
| C...   | 239     | 59.60.1104 | 100 n 20%, GENERAL PURPOSE         | ANY          | IC... | 104     | 50.62.7139 | 74 F 139                           | ANY          |
| C...   | 240     | 59.45.4151 | 150 p 20%, GENERAL PURPOSE         | ANY          | IC... | 107     | 50.62.5245 | 74 AC 245                          | ANY          |
| DL...  | 221     | 50.04.2121 | TLUR2400 LED RED, DIFF             | ANY          | IC... | 108     | 50.62.5245 | 74 AC 245                          | ANY          |
| DL...  | 222     | 50.04.2132 | TLUG2400 LED GRN, DIFF             | ANY          | IC... | 109     | 50.62.1008 | 74 HC 08                           | ANY          |
| DL...  | 223     | 50.04.2132 | TLUG2400 LED GRN, DIFF             | ANY          | IC... | 110     | 50.62.6244 | 74 ACT 244                         | ANY          |
| DL...  | 224     | 50.04.2132 | TLUG2400 LED GRN, DIFF             | ANY          |       |         |            |                                    |              |
| DL...  | 225     | 50.04.2121 | TLUR2400 LED RED, DIFF             | ANY          | IC... | 111     | 50.62.1374 | 74 HC 374                          | ANY          |
| DL...  | 226     | 50.04.2121 | TLUR2400 LED RED, DIFF             | ANY          | IC... | 112     | 50.62.1595 | 74 HC 595                          | ANY          |
| DL...  | 227     | 50.04.2121 | TLUR2400 LED RED, DIFF             | ANY          | IC... | 113     | 50.62.1595 | 74 HC 595                          | ANY          |
| DL...  | 228     | 50.04.2132 | TLUG2400 LED GRN, DIFF             | ANY          | IC... | 114     | 50.62.1374 | 74 HC 374                          | ANY          |
| DL...  | 229     | 50.04.2132 | TLUG2400 LED GRN, DIFF             | ANY          | IC... | 115     | 50.62.1000 | 74 HC 00                           | ANY          |
| DL...  | 230     | 50.04.2121 | TLUR2400 LED RED, DIFF             | ANY          |       |         |            |                                    |              |
| DL...  | 231     | 50.04.2121 | TLUR2400 LED RED, DIFF             | ANY          | IC... | 121     | 50.62.2652 | 74 ALS 652                         | ANY          |
| DL...  | 232     | 50.04.2121 | TLUR2400 LED RED, DIFF             | ANY          | IC... | 122     | 50.62.2652 | 74 ALS 652                         | ANY          |
| DL...  | 233     | 50.04.2121 | TLUR2400 LED RED, DIFF             | ANY          | IC... | 123     | 50.63.0405 | TMS 320 P15 - 25 (SW 1.863.940.20) | ANY          |
| DL...  | 234     | 50.04.2121 | TLUR2400 LED RED, DIFF             | ANY          | IC... | 124     | 50.62.7139 | 74 F 139                           | ANY          |
| DL...  | 235     | 50.04.2121 | TLUR2400 LED RED, DIFF             | ANY          | IC... | 127     | 50.62.5245 | 74 AC 245                          | ANY          |
| DL...  | 236     | 50.04.2121 | TLUR2400 LED RED, DIFF             | ANY          | IC... | 128     | 50.62.5245 | 74 AC 245                          | ANY          |
| DL...  | 237     | 50.04.2132 | TLUG2400 LED GRN, DIFF             | ANY          | IC... | 129     | 50.62.1008 | 74 HC 08                           | ANY          |
| DL...  | 238     | 50.04.2121 | TLUR2400 LED RED, DIFF             | ANY          | IC... | 130     | 50.62.6244 | 74 ACT 244                         | ANY          |
| F....  | 1       | 51.99.0133 | MINIFUSE 7A                        | ANY          | IC... | 131     | 50.62.1374 | 74 HC 374                          | ANY          |
| F....  | 2       | 51.99.0133 | MINIFUSE 7A                        | ANY          | IC... | 132     | 50.62.1595 | 74 HC 595                          | ANY          |
| IC.... | 1       | 50.62.0002 | uA 9637 ACD                        | ANY          | IC... | 133     | 50.62.1595 | 74 HC 595                          | ANY          |
| IC.... | 2       | 50.62.7169 | 74 F 169                           | ANY          | IC... | 134     | 50.62.1374 | 74 HC 374                          | ANY          |
| IC.... | 3       | 50.62.7169 | 74 F 169                           | ANY          | IC... | 135     | 50.62.1000 | 74 HC 00                           | ANY          |
| IC.... | 4       | 50.62.6000 | 74 ACT 00                          | ANY          | IC... | 141     | 50.62.2652 | 74 ALS 652                         | ANY          |
| IC.... | 5       | 50.62.7074 | 74 F 74                            | ANY          | IC... | 142     | 50.62.2652 | 74 ALS 652                         | ANY          |
| IC.... | 6       | 50.62.7244 | 74 F 244                           | ANY          | IC... | 143     | 50.63.0405 | TMS 320 P15 - 25 (SW 1.863.940.20) | ANY          |
| IC.... | 7       | 50.62.7244 | 74 F 244                           | ANY          | IC... | 144     | 50.62.7139 | 74 F 139                           | ANY          |
| IC.... | 8       | 50.62.7374 | 74 F 374                           | ANY          | IC... | 147     | 50.62.5245 | 74 AC 245                          | ANY          |
| IC.... | 9       | 50.62.3138 | 74 HCT 138                         | ANY          | IC... | 148     | 50.62.5245 | 74 AC 245                          | ANY          |
| IC.... | 10      | 50.62.1540 | 74 HC 540                          | ANY          | IC... | 149     | 50.62.1008 | 74 HC 08                           | ANY          |
| IC...  | 11      | 50.50.0010 | PORTMASTER                         | St           | IC... | 151     | 50.62.1374 | 74 HC 374                          | ANY          |
| IC...  | 12      | 50.50.0010 | PORTMASTER                         | St           | IC... | 152     | 50.62.1595 | 74 HC 595                          | ANY          |
| IC...  | 13      | 50.62.7074 | 74 F 74                            | ANY          | IC... | 153     | 50.62.1595 | 74 HC 595                          | ANY          |
| IC...  | 14      | 50.62.6000 | 74 ACT 00                          | ANY          | IC... | 154     | 50.62.1374 | 74 HC 374                          | ANY          |
| IC...  | 15      | 50.62.3000 | 74 HCT 00                          | ANY          | IC... | 155     | 50.62.1000 | 74 HC 00                           | ANY          |
| IC...  | 15      | 50.62.1595 | 74 HC 595                          | ANY          |       |         |            |                                    |              |
| IC...  | 21      | 50.62.2652 | 74 ALS 652                         | ANY          | IC... | 161     | 50.62.2652 | 74 ALS 652                         | ANY          |
| IC...  | 22      | 50.62.2652 | 74 ALS 652                         | ANY          | IC... | 162     | 50.62.2652 | 74 ALS 652                         | ANY          |
| IC...  | 23      | 50.63.0405 | TMS 320 P15 - 25 (SW 1.863.940.20) | ANY          | IC... | 163     | 50.63.0405 | TMS 320 P15 - 25 (SW 1.863.940.20) | ANY          |
| IC...  | 24      | 50.62.7139 | 74 F 139                           | ANY          | IC... | 164     | 50.62.7139 | 74 F 139                           | ANY          |
| IC...  | 27      | 50.62.5245 | 74 AC 245                          | ANY          | IC... | 167     | 50.62.5245 | 74 AC 245                          | ANY          |
| IC...  | 28      | 50.62.5245 | 74 AC 245                          | ANY          | IC... | 168     | 50.62.5245 | 74 AC 245                          | ANY          |
| IC...  | 29      | 50.62.1008 | 74 HC 08                           | ANY          | IC... | 169     | 50.62.1008 | 74 HC 08                           | ANY          |
| IC...  | 30      | 50.62.6244 | 74 ACT 244                         | ANY          | IC... | 170     | 50.62.6244 | 74 ACT 244                         | ANY          |
| IC...  | 31      | 50.62.1374 | 74 HC 374                          | ANY          | IC... | 171     | 50.62.1374 | 74 HC 374                          | ANY          |
| IC...  | 32      | 50.62.1595 | 74 HC 595                          | ANY          | IC... | 172     | 50.62.1595 | 74 HC 595                          | ANY          |
| IC...  | 33      | 50.62.1595 | 74 HC 595                          | ANY          | IC... | 173     | 50.62.1595 | 74 HC 595                          | ANY          |
| IC...  | 34      | 50.62.1374 | 74 HC 374                          | ANY          | IC... | 174     | 50.62.1374 | 74 HC 374                          | ANY          |
| IC...  | 35      | 50.62.1000 | 74 HC 00                           | ANY          | IC... | 175     | 50.62.1000 | 74 HC 00                           | ANY          |
| IC...  | 41      | 50.62.2652 | 74 ALS 652                         | ANY          | IC... | 181     | 50.62.0901 | DASH 001 G                         | So           |
| IC...  | 42      | 50.62.2652 | 74 ALS 652                         | ANY          | IC... | 182     | 50.62.0902 | DASH 002 G                         | So           |
| IC...  | 43      | 50.63.0405 | TMS 320 P15 - 25 (SW 1.863.940.20) | ANY          | IC... | 183     | 50.63.1701 | TMS 4464 - 12                      | ANY          |
| IC...  | 44      | 50.62.7139 | 74 F 139                           | ANY          | IC... | 184     | 50.63.1701 | TMS 4464 - 12                      | ANY          |
| IC...  | 47      | 50.62.5245 | 74 AC 245                          | ANY          | IC... | 185     | 50.63.1701 | TMS 4464 - 12                      | ANY          |
| IC...  | 48      | 50.62.5245 | 74 AC 245                          | ANY          | IC... | 186     | 50.63.1701 | TMS 4464 - 12                      | ANY          |
| IC...  | 49      | 50.62.1008 | 74 HC 08                           | ANY          | IC... | 187     | 50.63.1701 | TMS 4464 - 12                      | ANY          |
| IC...  | 50      | 50.62.6244 | 74 ACT 244                         | ANY          | IC... | 188     | 50.63.1701 | TMS 4464 - 12                      | ANY          |
|        |         |            |                                    |              | IC... | 189     | 50.63.1701 | TMS 4464 - 12                      | ANY          |
|        |         |            |                                    |              | IC... | 190     | 50.63.1701 | TMS 4464 - 12                      | ANY          |
| IC...  | 51      | 50.62.1374 | 74 HC 374                          | ANY          |       |         |            |                                    |              |
| IC...  | 52      | 50.62.1595 | 74 HC 595                          | ANY          | IC... | 191     | 50.63.1701 | TMS 4464 - 12                      | ANY          |
| IC...  | 53      | 50.62.1595 | 74 HC 595                          | ANY          | IC... | 192     | 50.62.0002 | uA 9637                            | ANY          |
| IC...  | 54      | 50.62.1374 | 74 HC 374                          | ANY          | IC... | 193     | 50.62.0002 | uA 9637                            | ANY          |
| IC...  | 55      | 50.62.1000 | 74 HC 00                           | ANY          | IC... | 194     | 50.62.0003 | AM 26 LS 31                        | Ti           |
|        |         |            |                                    |              | IC... | 195     | 50.62.1157 | 74 HC 157                          | ANY          |
| IC...  | 61      | 50.62.2652 | 74 ALS 652                         | ANY          | IC... | 196     | 50.63.3000 | 16 V 8 - 25 (SW 1.862.912.20)      | ANY          |
| IC...  | 62      | 50.62.2652 | 74 ALS 652                         | ANY          | IC... | 197     | 50.63.3000 | 16 V 8 - 25 (SW 1.862.912.20)      | ANY          |
| IC...  | 63      | 50.63.0405 | TMS 320 P15 - 25 (SW 1.863.940.20) | ANY          | IC... | 198     | 50.63.3000 | 16 V 8 - 25 (SW 1.862.912.20)      | ANY          |
| IC...  | 64      | 50.62.7139 | 74 F 139                           | ANY          | IC... | 199     | 50.63.3000 | 16 V 8 - 25 (SW 1.862.912.20)      | ANY          |
| IC...  | 67      | 50.62.5245 | 74 AC 245                          | ANY          | IC... | 200     | 50.62.1157 | 74 HC 157                          | ANY          |
| IC...  | 68      | 50.62.5245 | 74 AC 245                          | ANY          |       |         |            |                                    |              |
| IC...  | 69      | 50.62.1008 | 74 HC 08                           | ANY          | IC... | 201     | 50.62.0901 | DASH 001 G                         | So           |





MULTICHANNEL AUDIO PROCESSOR 1.863.660.20

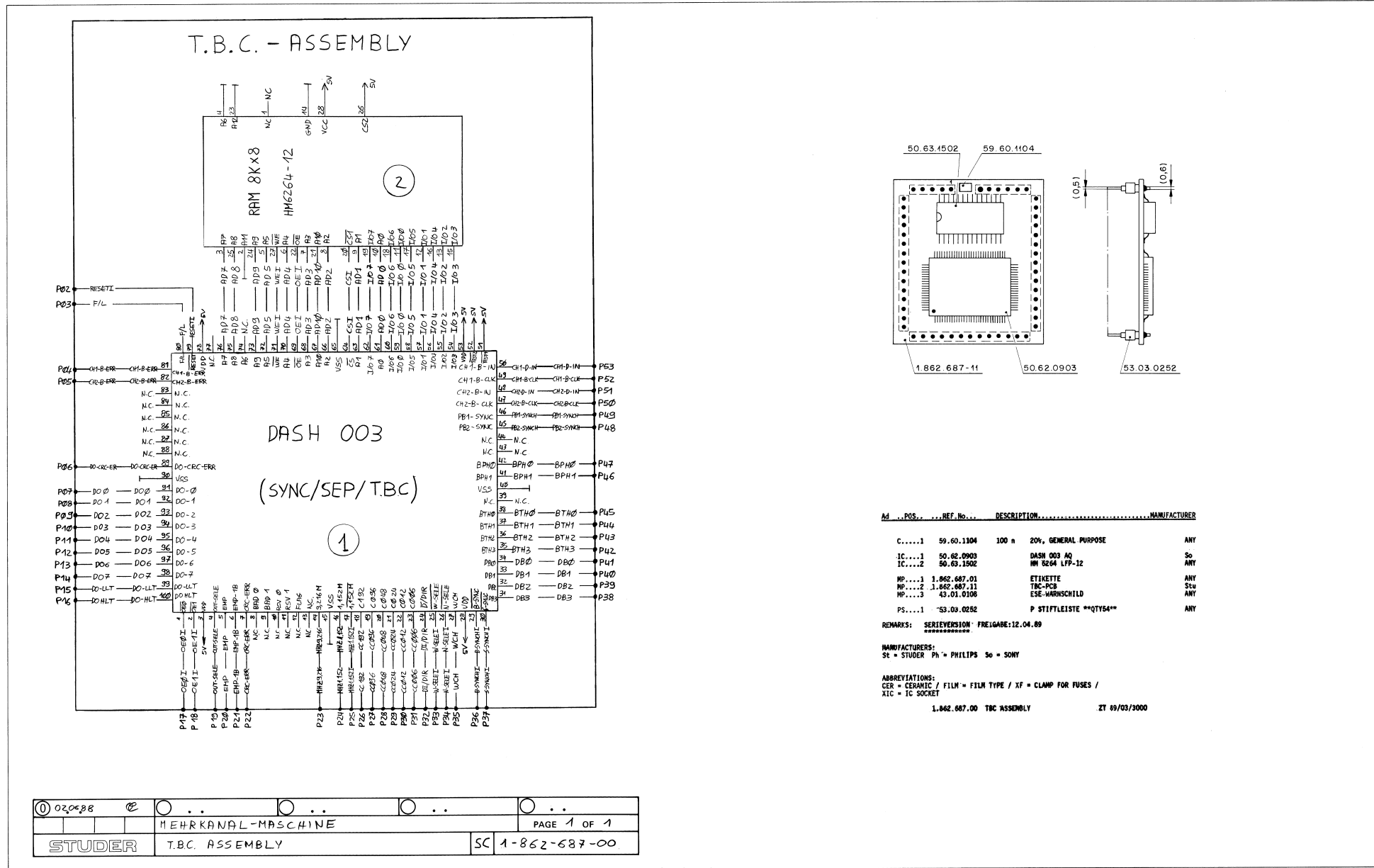
| Ad        | ..POS..      | REF.No.. | DESCRIPTION.....              | MANUFACTURER | Ad       | ..POS..      | REF.No.. | DESCRIPTION.....                      | MANUFACTURER |
|-----------|--------------|----------|-------------------------------|--------------|----------|--------------|----------|---------------------------------------|--------------|
| IC..202   | 50.62.0902   |          | DASH 002 G                    | So           | MP...15  | 1.862.650.05 |          | AUSWERFERHEBEL                        | St           |
| IC..203   | 50.63.1701   |          | TMS 4464 - 12                 | ANY          | MP...16  | 1.862.650.06 |          | AUSWERFERSTIFT                        | St           |
| IC..204   | 50.63.1701   |          | TMS 4464 - 12                 | ANY          | MP...17  | 1.862.650.06 |          | AUSWERFERSTIFT                        | St           |
| IC..205   | 50.63.1701   |          | TMS 4464 - 12                 | ANY          |          |              |          |                                       |              |
| IC..206   | 50.63.1701   |          | TMS 4464 - 12                 | ANY          | P.....1  | 54.01.0358   |          | CARD CONNECTOR, 3 * 32 EURO SOLDERING | ANY          |
| IC..207   | 50.63.1701   |          | TMS 4464 - 12                 | ANY          | P.....2  | 54.01.0358   |          | CARD CONNECTOR, 3 * 32 EURO SOLDERING | ANY          |
| IC..208   | 50.63.1701   |          | TMS 4464 - 12                 | ANY          | P.....7  | 54.14.2008   |          | CARD CONNECTOR (RIBBON-CABLE), 20-PIN | ANY          |
| IC..209   | 50.63.1701   |          | TMS 4464 - 12                 | ANY          |          |              |          |                                       |              |
| IC..210   | 50.63.1701   |          | TMS 4464 - 12                 | ANY          | R.....1  | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| IC..211   | 50.63.1701   |          | TMS 4464 - 12                 | ANY          | R.....2  | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| IC..212   | 50.62.0002   |          | uA 9637                       | ANY          | R.....3  | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| IC..213   | 50.62.0002   |          | uA 9637                       | ANY          | R.....4  | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| IC..214   | 50.62.0003   |          | AW 26 1S 31                   | TI           | R.....5  | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| IC..215   | 50.62.1157   |          | 74 HC 157                     | ANY          | R.....6  | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| IC..216   | 50.63.3000   |          | 16 V 8 - 25 (SW 1.862.912.20) | ANY          | R.....7  | 57.60.1332   | 3.3 k    | 20%                                   | ANY          |
| IC..217   | 50.63.3000   |          | 16 V 8 - 25 (SW 1.862.912.20) | ANY          | R.....8  | 57.60.1332   | 3.3 k    | 20%                                   | ANY          |
| IC..218   | 50.63.3000   |          | 16 V 8 - 25 (SW 1.862.912.20) | ANY          | R.....9  | 57.60.1332   | 3.3 k    | 20%                                   | ANY          |
| IC..219   | 50.63.3000   |          | 16 V 8 - 25 (SW 1.862.912.20) | ANY          | R.....10 | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| IC..220   | 50.62.1157   |          | 74 HC 157                     | ANY          | R.....11 | 57.60.1332   | 3.3 k    | 20%                                   | ANY          |
| IC..221   | 50.62.0904   |          | DASH 004 P                    | So           | R....12  | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| IC..222   | 50.62.1000   |          | 74 HC 00                      | ANY          | R....13  | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| IC..223   | 50.62.1000   |          | 74 HC 00                      | ANY          | R....14  | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| IC..224   | 50.62.1596   |          | 74 HC 595                     | ANY          | R....15  | 57.60.1332   | 3.3 k    | 20%                                   | ANY          |
| IC..225   | 50.62.1153   |          | 74 HC 153                     | ANY          | R....16  | 57.60.1332   | 3.3 k    | 20%                                   | ANY          |
| IC..226   | 50.62.1008   |          | 74 HC 08                      | ANY          | R....17  | 57.60.1332   | 3.3 k    | 20%                                   | ANY          |
| IC..227   | 50.62.1164   |          | 74 HC 164                     | ANY          | R....18  | 57.60.1332   | 3.3 k    | 20%                                   | ANY          |
| IC..228   | 50.62.1597   |          | 74 HC 597                     | ANY          | R....21  | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| IC..229   | 50.62.3151   |          | 74 HCT 151                    | ANY          | R....22  | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| IC..230   | 50.62.3151   |          | 74 HCT 151                    | ANY          | R....23  | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| IC..231   | 50.62.3151   |          | 74 HCT 151                    | ANY          | R....24  | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| IC..232   | 50.62.3151   |          | 74 HCT 151                    | ANY          | R....25  | 57.60.1332   | 3.3 k    | 20%                                   | ANY          |
| IC..233   | 50.62.3151   |          | 74 HCT 151                    | ANY          | R....26  | 57.60.1332   | 3.3 k    | 20%                                   | ANY          |
| IC..234   | 50.63.3000   |          | 16 V 8 - 25 (SW 1.862.911.20) | ANY          | R....27  | 57.60.1332   | 3.3 k    | 20%                                   | ANY          |
| IC..235   | 50.62.1132   |          | 74 HC 132                     | ANY          | R....41  | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| IC..236   | 50.62.1163   |          | 74 HC 163                     | ANY          | R....42  | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| IC..237   | 50.62.1688   |          | 74 HC 688                     | ANY          | R....43  | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| IC..238   | 50.63.3000   |          | 16 V 8 - 25 (SW 1.862.910.20) | ANY          | R....44  | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| IC..239   | 50.62.1010   |          | 74 HC 10                      | ANY          | R....45  | 57.60.1332   | 3.3 k    | 20%                                   | ANY          |
| IC..240   | 50.62.1423   |          | 74 HC 423                     | ANY          | R....46  | 57.60.1332   | 3.3 k    | 20%                                   | ANY          |
| IC..241   | 50.62.1423   |          | 74 HC 423                     | ANY          | R....47  | 57.60.1332   | 3.3 k    | 20%                                   | ANY          |
| IC..242   | 50.62.1540   |          | 74 HC 540                     | ANY          | R....61  | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| IC..243   | 50.62.1423   |          | 74 HC 423                     | ANY          | R....62  | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| IC..244   | 50.62.1597   |          | 74 HC 597                     | ANY          | R....63  | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| IC..245   | 50.62.1597   |          | 74 HC 597                     | ANY          | R....64  | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| IC..246   | 50.62.7074   |          | 74 F 74                       | ANY          | R....65  | 57.60.1332   | 3.3 k    | 20%                                   | ANY          |
| J.....1   | 54.01.0021   |          | JUMPER CONNECTOR              | ANY          | R....66  | 57.60.1332   | 3.3 k    | 20%                                   | ANY          |
| J.....2   | 54.01.0021   |          | JUMPER CONNECTOR              | ANY          | R....67  | 57.60.1332   | 3.3 k    | 20%                                   | ANY          |
| J.....3   | 54.01.0021   |          | JUMPER CONNECTOR              | ANY          | R....81  | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| J.....4   | 54.01.0021   |          | JUMPER CONNECTOR              | ANY          | R....82  | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| J.....5   | 54.01.0021   |          | JUMPER CONNECTOR              | ANY          | R....83  | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| J.....6   | 54.01.0021   |          | JUMPER CONNECTOR              | ANY          | R....84  | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| J.....7   | 54.01.0021   |          | JUMPER CONNECTOR              | ANY          | R....85  | 57.60.1332   | 3.3 k    | 20%                                   | ANY          |
| J.....8   | 54.01.0021   |          | JUMPER CONNECTOR              | ANY          | R....86  | 57.60.1332   | 3.3 k    | 20%                                   | ANY          |
| J.....221 | 54.01.0021   |          | JUMPER CONNECTOR              | ANY          | R....87  | 57.60.1332   | 3.3 k    | 20%                                   | ANY          |
| J.....222 | 54.01.0021   |          | JUMPER CONNECTOR              | ANY          | R....101 | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| J.....223 | 54.01.0021   |          | JUMPER CONNECTOR              | ANY          | R....102 | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| J.....224 | 54.01.0021   |          | JUMPER CONNECTOR              | ANY          | R....103 | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| J.....225 | 54.01.0021   |          | JUMPER CONNECTOR              | ANY          | R....104 | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| J.....226 | 54.01.0021   |          | JUMPER CONNECTOR              | ANY          | R....105 | 57.60.1332   | 3.3 k    | 20%                                   | ANY          |
| J.....227 | 54.01.0021   |          | JUMPER CONNECTOR              | ANY          | R....106 | 57.60.1332   | 3.3 k    | 20%                                   | ANY          |
| J.....228 | 54.01.0021   |          | JUMPER CONNECTOR              | ANY          | R....107 | 57.60.1332   | 3.3 k    | 20%                                   | ANY          |
| J.....229 | 54.01.0021   |          | JUMPER CONNECTOR              | ANY          | R....121 | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| JP....1   | 54.01.0020   |          | SIL PIN *** QTY 3 ***         | ANY          | R....122 | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| JP....2   | 54.01.0020   |          | SIL PIN *** QTY 3 ***         | ANY          | R....123 | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| JP....3   | 54.01.0020   |          | SIL PIN *** QTY 3 ***         | ANY          | R....124 | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| JP....4   | 54.01.0020   |          | SIL PIN *** QTY 3 ***         | ANY          | R....125 | 57.60.1332   | 3.3 k    | 20%                                   | ANY          |
| JP....5   | 54.01.0020   |          | SIL PIN *** QTY 3 ***         | ANY          | R....126 | 57.60.1332   | 3.3 k    | 20%                                   | ANY          |
| JP....6   | 54.01.0020   |          | SIL PIN *** QTY 3 ***         | ANY          | R....127 | 57.60.1332   | 3.3 k    | 20%                                   | ANY          |
| JP....7   | 54.01.0020   |          | SIL PIN *** QTY 3 ***         | ANY          | R....141 | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| JP....8   | 54.01.0020   |          | SIL PIN *** QTY 3 ***         | ANY          | R....142 | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| JP..221   | 54.01.0020   |          | SIL PIN *** QTY 3 ***         | ANY          | R....143 | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| JP..222   | 54.01.0020   |          | SIL PIN *** QTY 3 ***         | ANY          | R....144 | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| JP..223   | 54.01.0020   |          | SIL PIN *** QTY 3 ***         | ANY          | R....145 | 57.60.1332   | 3.3 k    | 20%                                   | ANY          |
| JP..224   | 54.01.0020   |          | SIL PIN *** QTY 3 ***         | ANY          | R....146 | 57.60.1332   | 3.3 k    | 20%                                   | ANY          |
| JP..225   | 54.01.0020   |          | SIL PIN *** QTY 3 ***         | ANY          | R....147 | 57.60.1332   | 3.3 k    | 20%                                   | ANY          |
| JP..226   | 54.01.0020   |          | SIL PIN *** QTY 3 ***         | ANY          | R....161 | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| JP..227   | 54.01.0020   |          | SIL PIN *** QTY 3 ***         | ANY          | R....162 | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| JP..228   | 54.01.0020   |          | SIL PIN *** QTY 3 ***         | ANY          | R....163 | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| JP..229   | 54.01.0020   |          | SIL PIN *** QTY 3 ***         | ANY          | R....164 | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| L.....1   | 62.03.0030   | 110 uH   | 3 A, FILTER                   | ANY          | R....165 | 57.60.1332   | 3.3 k    | 20%                                   | ANY          |
| L.....2   | 62.03.0030   | 110 uH   | 3 A, FILTER                   | ANY          | R....166 | 57.60.1332   | 3.3 k    | 20%                                   | ANY          |
| MP....1   | 1.863.652.13 |          | PCB                           | ANY          | R....167 | 57.60.1332   | 3.3 k    | 20%                                   | ANY          |
| MP....2   | 55.03.0127   |          | CAP FOR TOGGLE-SWITCH, GR     | ANY          | R....181 | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| MP....3   | 28.99.0119   |          | RIVETING NUT, D2.5*0.15*10    | St           | R....182 | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| MP....4   | 28.99.0119   |          | RIVETING NUT, D2.5*0.15*10    | St           | R....183 | 57.60.1332   | 3.3 k    | 20%                                   | ANY          |
| MP....5   | 28.99.0119   |          | RIVETING NUT, D2.5*0.15*10    | St           | R....184 | 57.60.1332   | 3.3 k    | 20%                                   | ANY          |
| MP....6   | 28.99.0119   |          | RIVETING NUT, D2.5*0.15*10    | St           | R....185 | 57.60.1332   | 3.3 k    | 20%                                   | ANY          |
| MP....7   | 1.010.130.51 |          | TEXT-ETIK. 5*20 (F7.00A)      | ST           | R....186 | 57.60.1332   | 3.3 k    | 20%                                   | ANY          |
| MP....8   | 1.010.130.51 |          | TEXT-ETIK. 5*20 (F7.00A)      | ST           | R....187 | 57.60.1332   | 3.3 k    | 20%                                   | ANY          |
| MP....9   | 43.01.0108   |          | ESE-WARNSCHILD                | ANY          | R....188 | 57.60.1332   | 3.3 k    | 20%                                   | ANY          |
| MP....10  | 1.863.660.01 |          | NR.-ETIKETTE 5 * 20           | St           | R....189 | 57.60.1332   | 3.3 k    | 20%                                   | ANY          |
| MP....11  | 1.101.001.20 |          | TEXT-ETIK. 5*20 HARDWARE -20  | St           | R....190 | 57.60.1332   | 3.3 k    | 20%                                   | ANY          |
| MP....12  | 1.010.003.89 |          | OSZ.-UNTERLAGE                | ANY          | R....191 | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| MP....13  | 1.862.652.02 |          | TEXT - ETIKETTE MAPRO         | St           | R....192 | 57.60.1102   | 1 k      | 20%                                   | ANY          |
| MP....14  | 1.862.650.05 |          | AUSWERFERHEBEL                | St           | R....193 | 57.60.1221   | 220 E    | 5%                                    | ANY          |



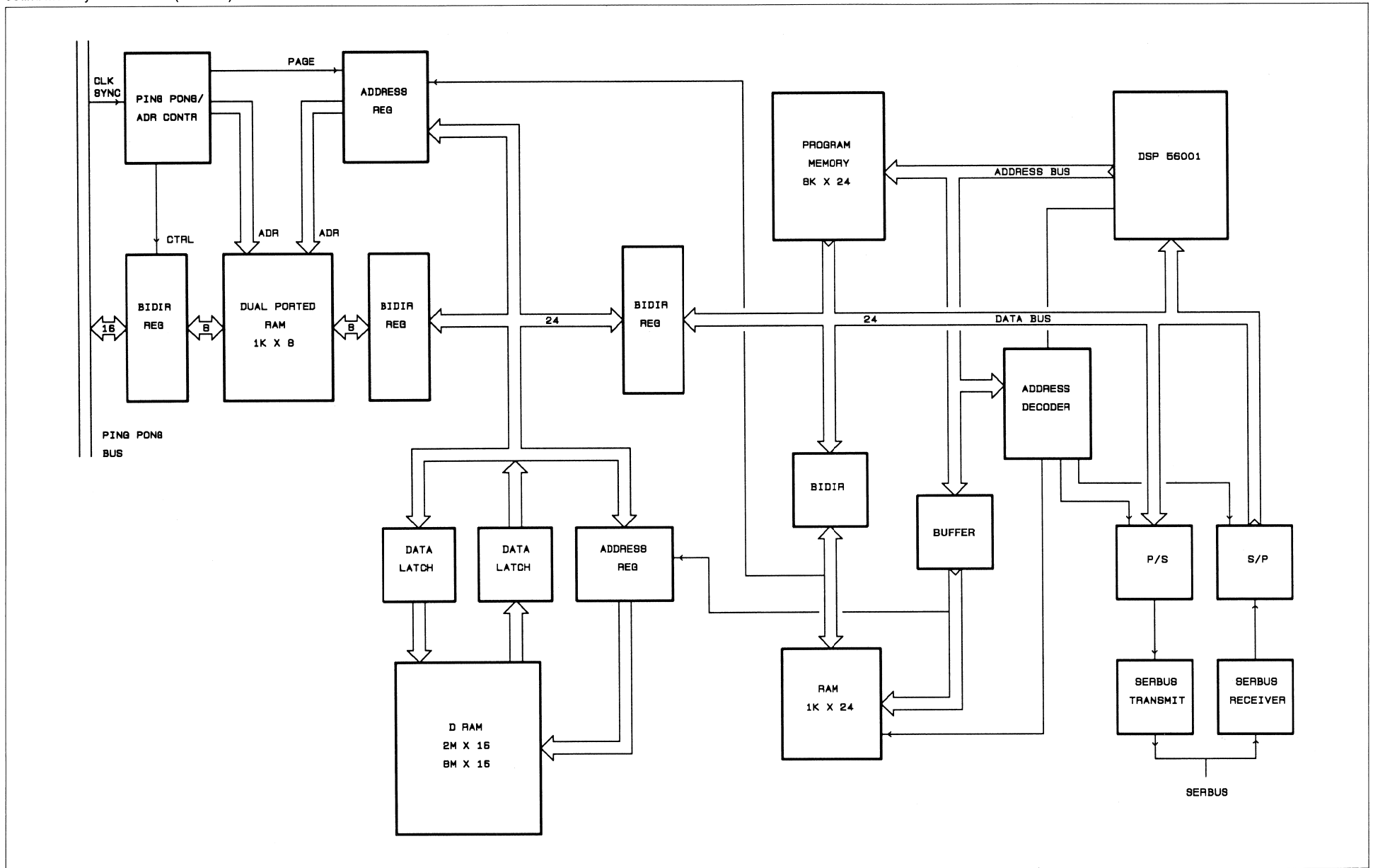
MULTICHANNEL AUDIO PROCESSOR 1.863.660.20

| Ad      | ..POS.. | ..REF.No.. | DESCRIPTION          | MANUFACTURER | Ad  | ..POS..   | ..REF.No.. | DESCRIPTION                | MANUFACTURER |
|---------|---------|------------|----------------------|--------------|-----|---|------------|----------------------------|--------------|
| R...    | 194     | 57.60.1221 | 220 E                | 5k           | ANY | XIC.197   | 53.03.2220 | PLCC-SOCKET, 20-PIN        | ANY          |
| R...    | 198     | 57.60.1221 | 220 E                | 5k           | ANY | XIC.198   | 53.03.2220 | PLCC-SOCKET, 20-PIN        | ANY          |
| R...    | 196     | 57.60.1221 | 220 E                | 5k           | ANY | XIC.199   | 53.03.2220 | PLCC-SOCKET, 20-PIN        | ANY          |
| R...    | 201     | 57.60.1102 | 1 k                  | 20k          | ANY | XIC.201   | 53.03.2000 | PDA-SOCKET, 89-PIN         | ANY          |
| R...    | 202     | 57.60.1102 | 1 k                  | 20k          | ANY | XIC.202   | 53.03.2001 | PDA-SOCKET, 136-PIN        | ANY          |
| R...    | 203     | 57.60.1332 | 3.3 k                | 20k          | ANY | XIC.216   | 53.03.2220 | PLCC-SOCKET, 20-PIN        | ANY          |
| R...    | 204     | 57.60.1332 | 3.3 k                | 20k          | ANY | XIC.217   | 53.03.2220 | PLCC-SOCKET, 20-PIN        | ANY          |
| R...    | 205     | 57.60.1332 | 3.3 k                | 20k          | ANY | XIC.218   | 53.03.2220 | PLCC-SOCKET, 20-PIN        | ANY          |
| R...    | 206     | 57.60.1332 | 3.3 k                | 20k          | ANY | XIC.219   | 53.03.2220 | PLCC-SOCKET, 20-PIN        | ANY          |
| R...    | 207     | 57.60.1332 | 3.3 k                | 20k          | ANY | XIC.221   | 53.03.0182 | DIL-SOCKET, 24-PIN, NON-GE | ANY          |
| R...    | 208     | 57.60.1332 | 3.3 k                | 20k          | ANY | XIC.224   | 53.03.2220 | PLCC-SOCKET, 20-PIN        | ANY          |
| R...    | 209     | 57.60.1332 | 3.3 k                | 20k          | ANY | XIC.228   | 53.03.2220 | PLCC-SOCKET, 20-PIN        | ANY          |
| R...    | 210     | 57.60.1332 | 3.3 k                | 20k          | ANY | XIC.240   | 53.03.0218 | SINGLE LINE, QTY. 216      | ANY          |
| R...    | 211     | 57.60.1102 | 1 k                  | 20k          | ANY | Y....1  | 89.01.1808 | Y-OSC, 27 MHZ              | ANY          |
| R...    | 212     | 57.60.1102 | 1 k                  | 20k          | ANY | REMARKS:  |            |                            |              |
| R...    | 213     | 57.60.1221 | 220 E                | 5k           | ANY | (01) 21.07.94 IC 14 changes from 74ACT00 to 74HCT00       |            |                            |              |
| R...    | 214     | 57.60.1221 | 220 E                | 5k           | ANY | additional C240   |            |                            |              |
| R...    | 215     | 57.60.1221 | 220 E                | 5k           | ANY |   |            |                            |              |
| R...    | 216     | 57.60.1221 | 220 E                | 5k           | ANY |   |            |                            |              |
| R...    | 222     | 57.60.1102 | 1 k                  | 20k          | ANY | MANUFACTURERS:  |            |                            |              |
| R...    | 223     | 57.60.1102 | 1 k                  | 20k          | ANY | St = STUDER So = SONY Ti = TEXAS INSTRUMENTS              |            |                            |              |
| R...    | 224     | 57.60.1332 | 3.3 k                | 20k          | ANY |   |            |                            |              |
| R...    | 225     | 57.60.1102 | 1 k                  | 20k          | ANY | ABBREVIATIONS:  |            |                            |              |
| R...    | 226     | 57.60.1102 | 1 k                  | 20k          | ANY | CEP = CERAMIC / FILM = FILM TYPE / KF = CLAMP FOR FUSES / |            |                            |              |
| R...    | 227     | 57.60.1102 | 1 k                  | 20k          | ANY | XIC = IC SOCKET   |            |                            |              |
| R...    | 228     | 57.60.1223 | 22 k                 | 20k          | ANY | 1.863.660.20 MCH - AUDIO - PROCESSOR                      |            | NL 94/07/2101              |              |
| R...    | 229     | 57.60.1102 | 1 k                  | 20k          | ANY |   |            |                            |              |
| R...    | 230     | 57.60.1104 | 100 k                | 20k          | ANY |   |            |                            |              |
| R...    | 231     | 57.60.1102 | 1 k                  | 20k          | ANY | END   |            |                            |              |
| R...    | 232     | 57.60.1104 | 100 k                | 20k          | ANY | *   |            |                            |              |
| R...    | 233     | 57.60.1102 | 1 k                  | 20k          | ANY |   |            |                            |              |
| R...    | 234     | 57.60.1104 | 100 k                | 20k          | ANY |   |            |                            |              |
| R...    | 235     | 57.60.1102 | 1 k                  | 20k          | ANY |   |            |                            |              |
| R...    | 236     | 57.60.1104 | 100 k                | 20k          | ANY |   |            |                            |              |
| R...    | 237     | 57.60.1102 | 1 k                  | 20k          | ANY |   |            |                            |              |
| R...    | 238     | 57.60.1222 | 2.2 k                | 20k          | ANY |   |            |                            |              |
| R...    | 239     | 57.60.1222 | 2.2 k                | 20k          | ANY |   |            |                            |              |
| R...    | 240     | 57.60.1222 | 2.2 k                | 20k          | ANY |   |            |                            |              |
| R...    | 241     | 57.60.1222 | 2.2 k                | 20k          | ANY |   |            |                            |              |
| R...    | 242     | 57.60.1104 | 100 k                | 20k          | ANY |   |            |                            |              |
| R...    | 243     | 57.60.1102 | 1 k                  | 20k          | ANY |   |            |                            |              |
| R...    | 244     | 57.60.1104 | 100 k                | 20k          | ANY |   |            |                            |              |
| R...    | 245     | 57.60.1102 | 1 k                  | 20k          | ANY |   |            |                            |              |
| R...    | 246     | 57.60.1102 | 1 k                  | 20k          | ANY |   |            |                            |              |
| R...    | 247     | 57.60.1222 | 2.2 k                | 20k          | ANY |   |            |                            |              |
| R...    | 248     | 57.60.1222 | 2.2 k                | 20k          | ANY |   |            |                            |              |
| R...    | 249     | 57.60.1222 | 2.2 k                | 20k          | ANY |   |            |                            |              |
| R...    | 250     | 57.60.1222 | 2.2 k                | 20k          | ANY |   |            |                            |              |
| R...    | 251     | 57.60.1332 | 3.3 k                | 20k          | ANY |   |            |                            |              |
| R...    | 252     | 57.60.1332 | 3.3 k                | 20k          | ANY |   |            |                            |              |
| R...    | 253     | 57.60.1332 | 3.3 k                | 20k          | ANY |   |            |                            |              |
| R...    | 254     | 57.60.1332 | 3.3 k                | 20k          | ANY |   |            |                            |              |
| R...    | 255     | 57.60.1332 | 3.3 k                | 20k          | ANY |   |            |                            |              |
| R...    | 256     | 57.60.1102 | 1 k                  | 20k          | ANY |   |            |                            |              |
| R...    | 257     | 57.60.1102 | 1 k                  | 20k          | ANY |   |            |                            |              |
| R...    | 258     | 57.60.1102 | 1 k                  | 20k          | ANY |   |            |                            |              |
| R...    | 259     | 57.60.1332 | 3.3 k                | 20k          | ANY |   |            |                            |              |
| R...    | 260     | 57.60.1332 | 3.3 k                | 20k          | ANY |   |            |                            |              |
| R...    | 261     | 57.60.1332 | 3.3 k                | 20k          | ANY |   |            |                            |              |
| R...    | 1221    | 57.60.1471 | 470 E                | 20k          | ANY |   |            |                            |              |
| R...    | 1222    | 57.60.1471 | 470 E                | 20k          | ANY |   |            |                            |              |
| R...    | 1223    | 57.60.1471 | 470 E                | 20k          | ANY |   |            |                            |              |
| R...    | 1224    | 57.60.1471 | 470 E                | 20k          | ANY |   |            |                            |              |
| R...    | 1225    | 57.60.1471 | 470 E                | 20k          | ANY |   |            |                            |              |
| R...    | 1226    | 57.60.1471 | 470 E                | 20k          | ANY |   |            |                            |              |
| R...    | 1227    | 57.60.1471 | 470 E                | 20k          | ANY |   |            |                            |              |
| R...    | 1228    | 57.60.1471 | 470 E                | 20k          | ANY |   |            |                            |              |
| R...    | 1229    | 57.60.1471 | 470 E                | 20k          | ANY |   |            |                            |              |
| R...    | 1230    | 57.60.1471 | 470 E                | 20k          | ANY |   |            |                            |              |
| R...    | 1231    | 57.60.1471 | 470 E                | 20k          | ANY |   |            |                            |              |
| R...    | 1232    | 57.60.1471 | 470 E                | 20k          | ANY |   |            |                            |              |
| R...    | 1233    | 57.60.1471 | 470 E                | 20k          | ANY |   |            |                            |              |
| R...    | 1234    | 57.60.1471 | 470 E                | 20k          | ANY |   |            |                            |              |
| R...    | 1235    | 57.60.1471 | 470 E                | 20k          | ANY |   |            |                            |              |
| R...    | 1236    | 57.60.1471 | 470 E                | 20k          | ANY |   |            |                            |              |
| R...    | 1237    | 57.60.1471 | 470 E                | 20k          | ANY |   |            |                            |              |
| R...    | 1238    | 57.60.1471 | 470 E                | 20k          | ANY |   |            |                            |              |
| R...    | 1239    | 57.60.1332 | 3.3 k                | 20k          | ANY |   |            |                            |              |
| S...    | 221     | 56.18.0028 | TOGGLE-SWITCH, ON-ON | ANY          |     |   |            |                            |              |
| TP...   | 1       | 54.02.0320 | TESTPOINT***QTY5***  | ANY          |     |   |            |                            |              |
| XIC..   | 11      | 53.03.0173 | DIL-SOCKET, 28-PIN   | ANY          |     |   |            |                            |              |
| XIC..   | 12      | 53.03.0173 | DIL-SOCKET, 28-PIN   | ANY          |     |   |            |                            |              |
| XIC..   | 23      | 53.03.2244 | PLCC-SOCKET, 44-PIN  | ANY          |     |   |            |                            |              |
| XIC..   | 43      | 53.03.2244 | PLCC-SOCKET, 44-PIN  | ANY          |     |   |            |                            |              |
| XIC..   | 63      | 53.03.2244 | PLCC-SOCKET, 44-PIN  | ANY          |     |   |            |                            |              |
| XIC..   | 83      | 53.03.2244 | PLCC-SOCKET, 44-PIN  | ANY          |     |   |            |                            |              |
| XIC.103 |         | 53.03.2244 | PLCC-SOCKET, 44-PIN  | ANY          |     |   |            |                            |              |
| XIC.123 |         | 53.03.2244 | PLCC-SOCKET, 44-PIN  | ANY          |     |   |            |                            |              |
| XIC.143 |         | 53.03.2244 | PLCC-SOCKET, 44-PIN  | ANY          |     |   |            |                            |              |
| XIC.163 |         | 53.03.2244 | PLCC-SOCKET, 44-PIN  | ANY          |     |   |            |                            |              |
| XIC.181 |         | 53.03.2000 | PDA-SOCKET, 89-PIN   | ANY          |     |   |            |                            |              |
| XIC.182 |         | 53.03.2001 | PDA-SOCKET, 136-PIN  | ANY          |     |   |            |                            |              |
| XIC.196 |         | 53.03.2220 | PLCC-SOCKET, 20-PIN  | ANY          |     |   |            |                            |              |

TBC ASSEMBLY 1.862.687.00

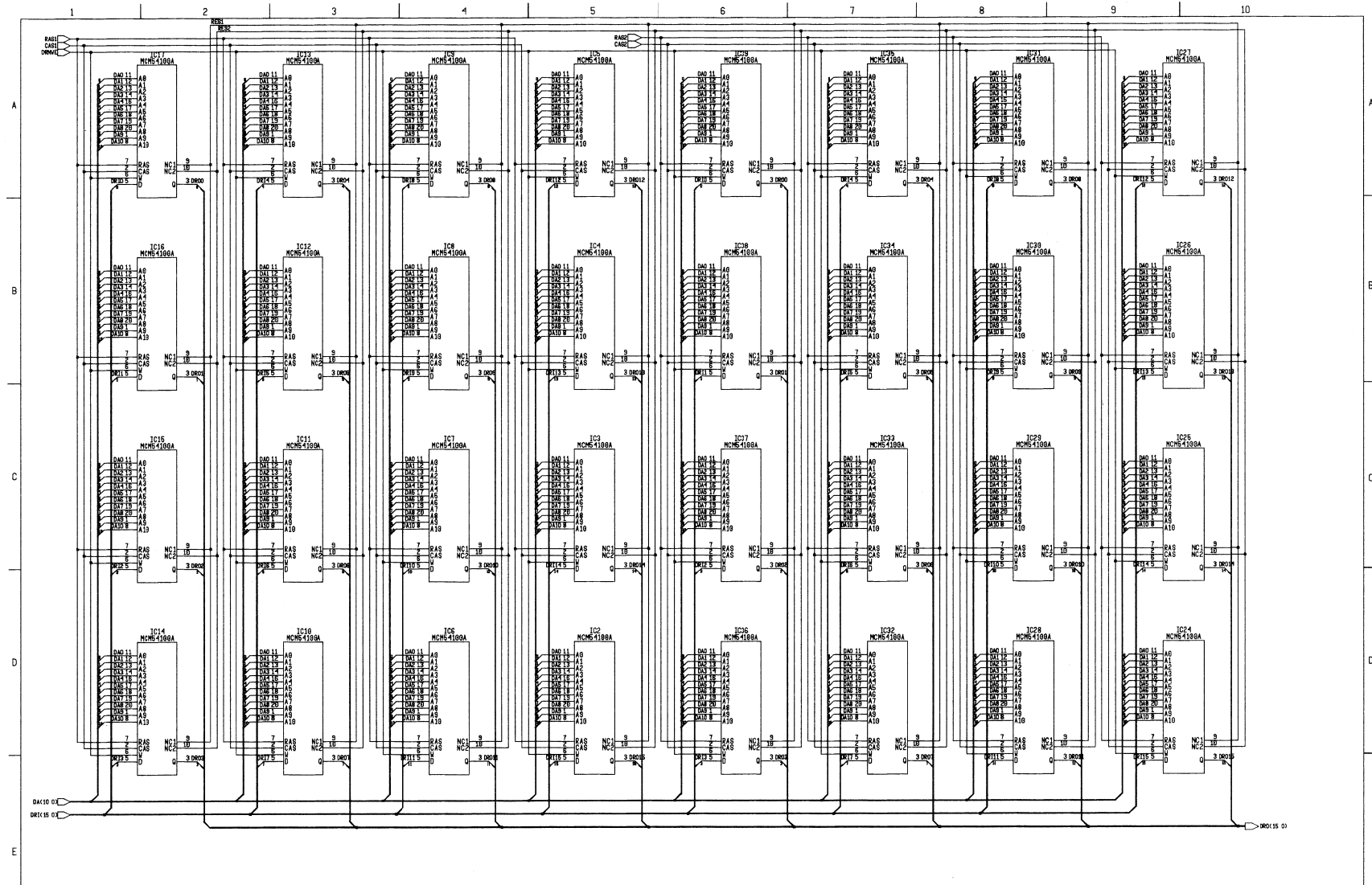


BLOCK DIAGRAM  
Sound Memory V2 1.863.665 (OPTION)





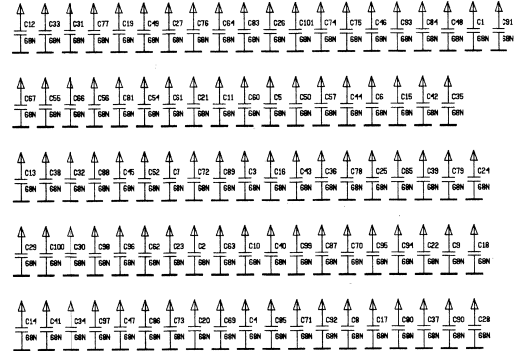
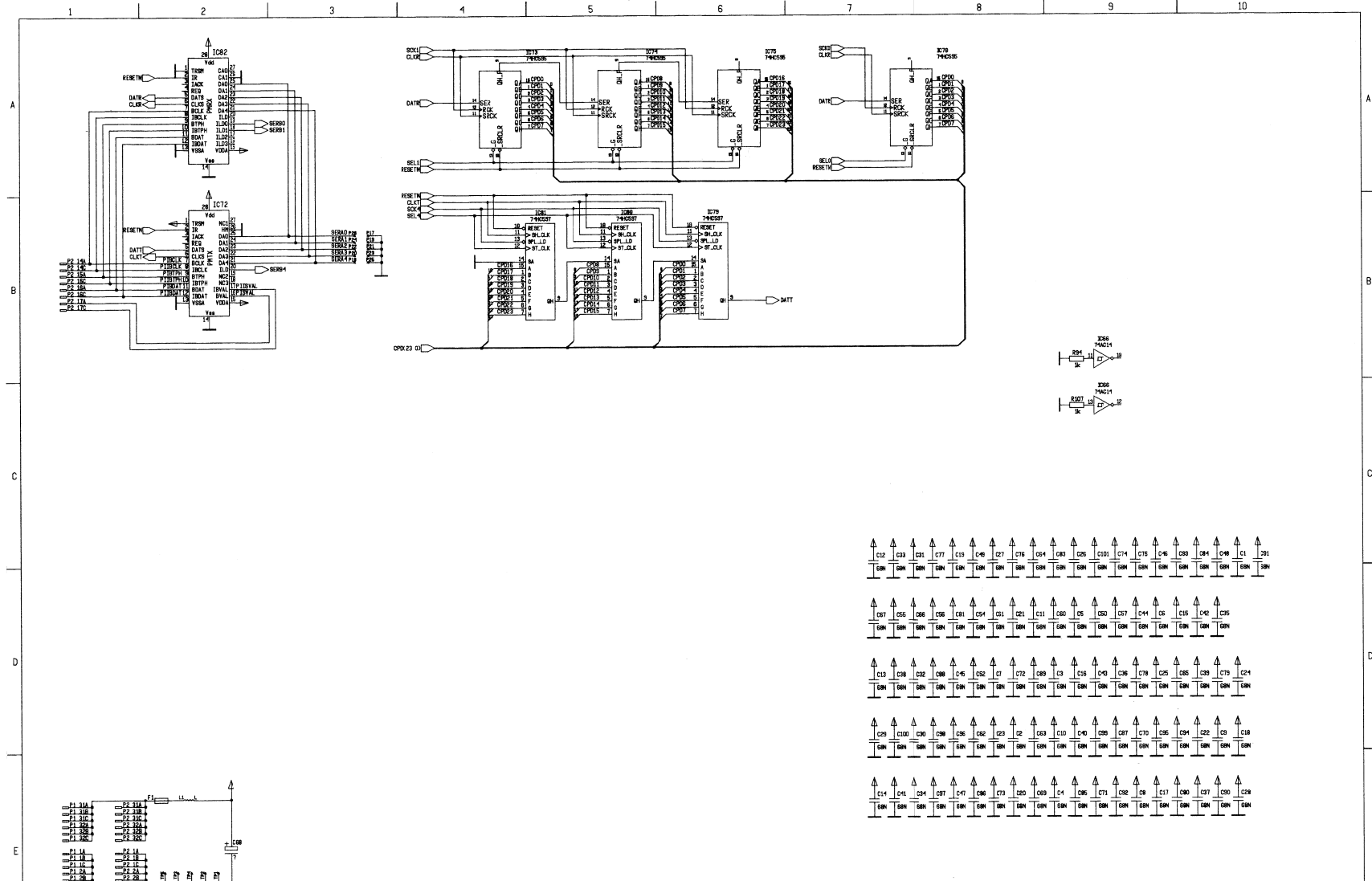
SOUND MEMORY V2 1.863.665.21 (OPTION)



|                 |   |   |   |   |      |   |   |              |   |
|-----------------|---|---|---|---|------|---|---|--------------|---|
| ① 11 10 93/MB   | ② | ③ | ④ | ⑤ | ⑥    | ⑦ | ⑧ | ⑨            | ⑩ |
| STUDER          |   |   |   |   | D827 |   |   | PAGE 2 / 4   |   |
| SOUND MEMORY V2 |   |   |   |   | SC   |   |   | 1.863.665.21 |   |



SOUND MEMORY V2 1.863.665.21 (OPTION)



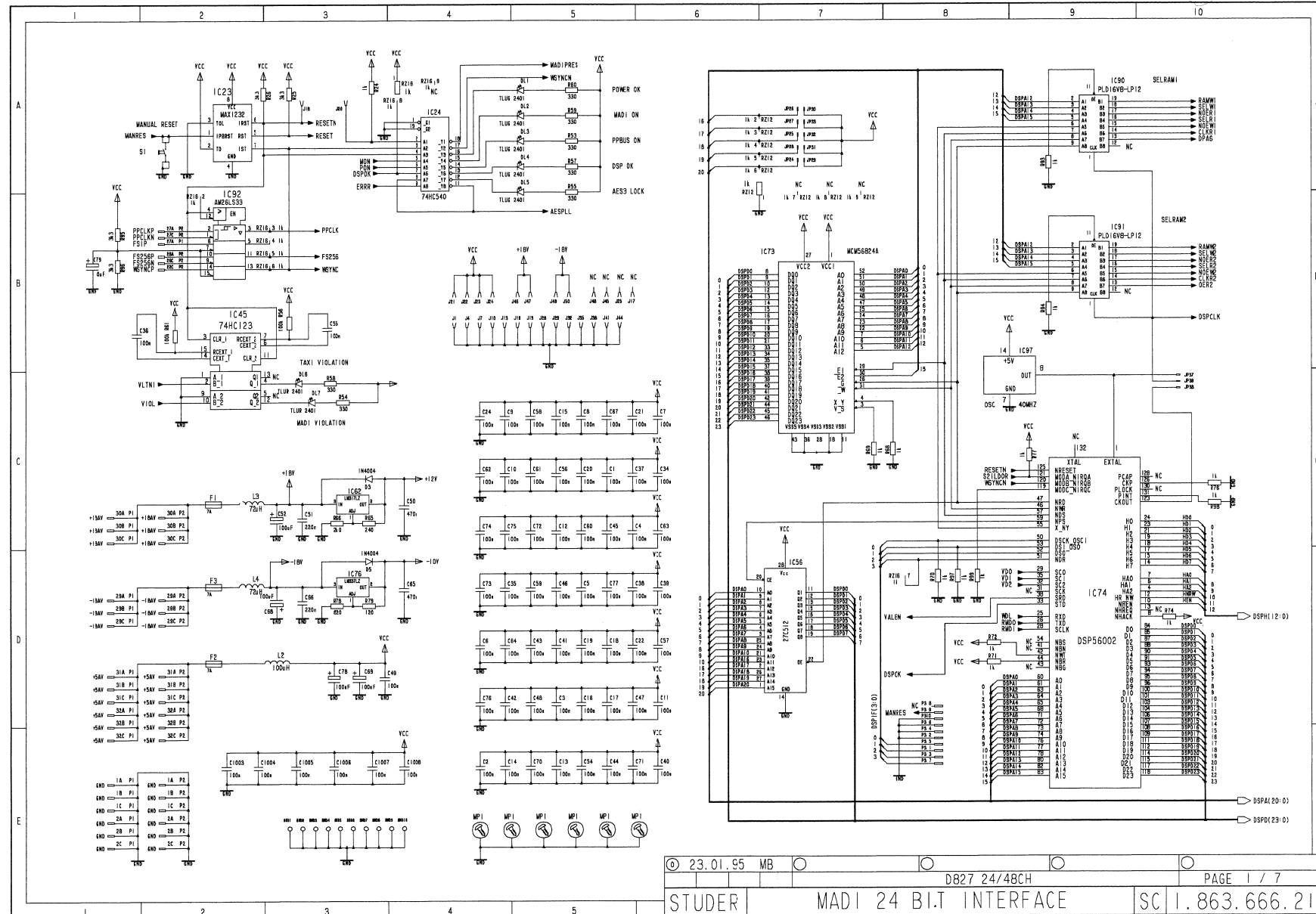




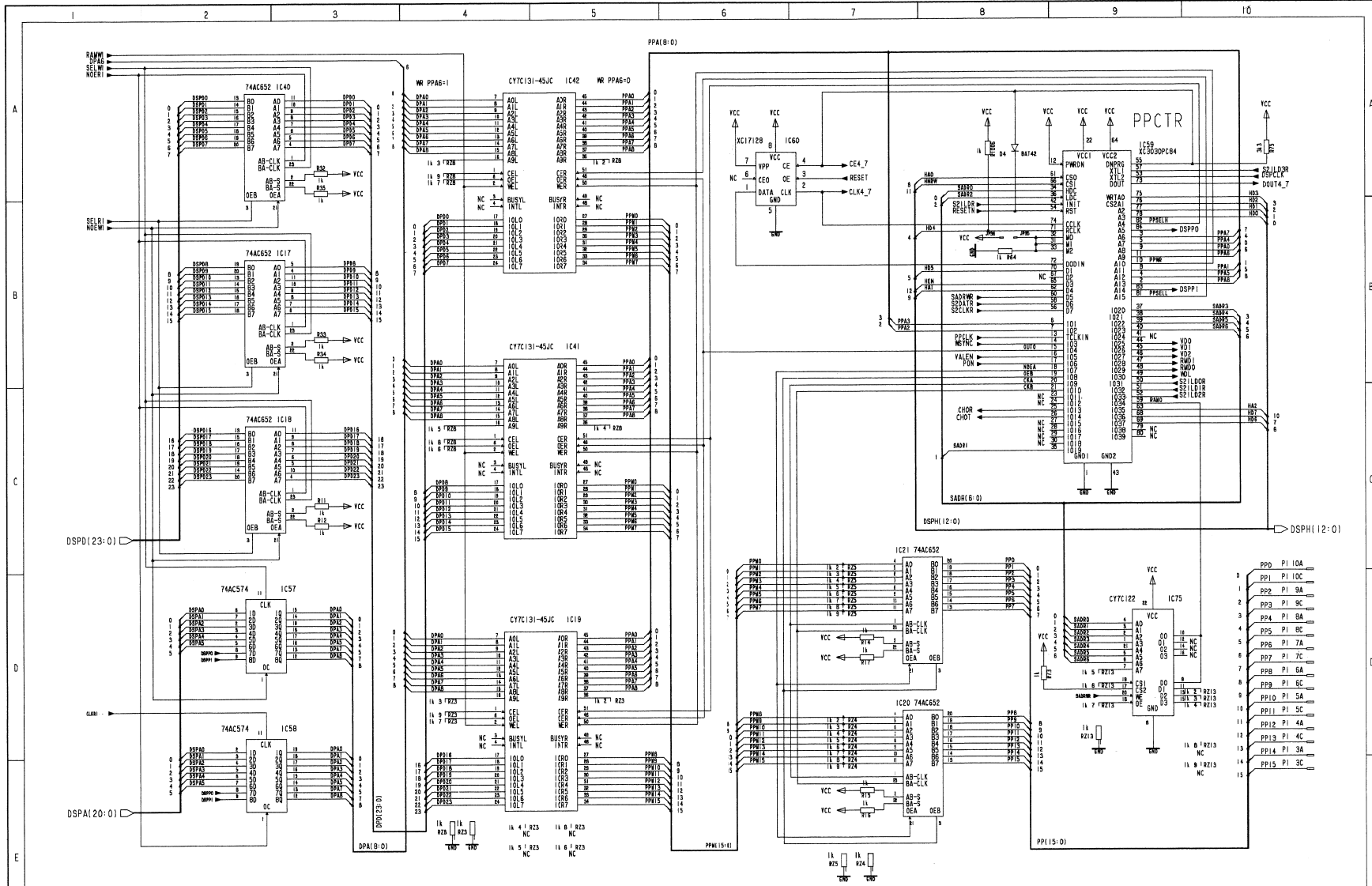




MADI 24 BIT INTERFACE 1.863.666.21

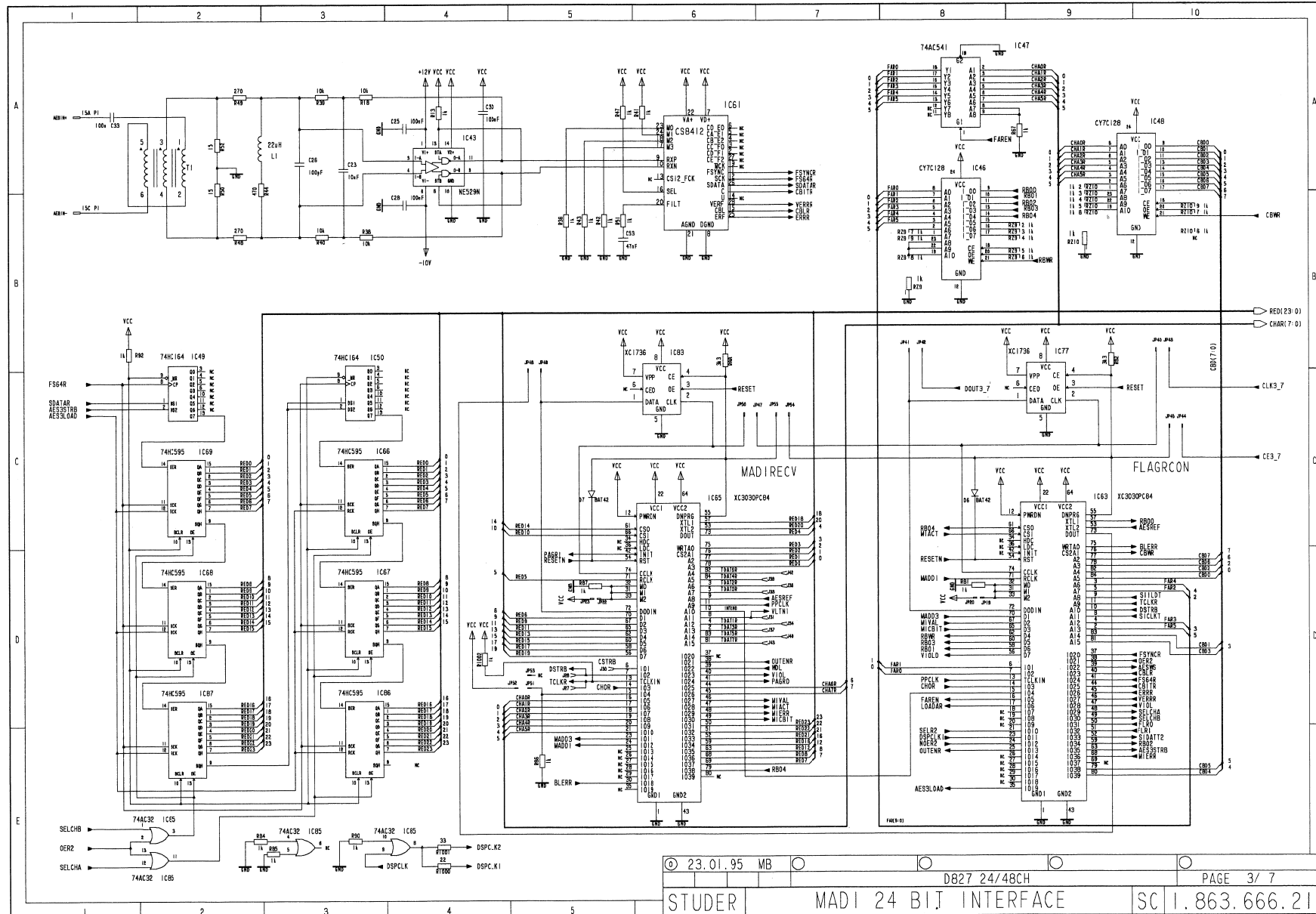


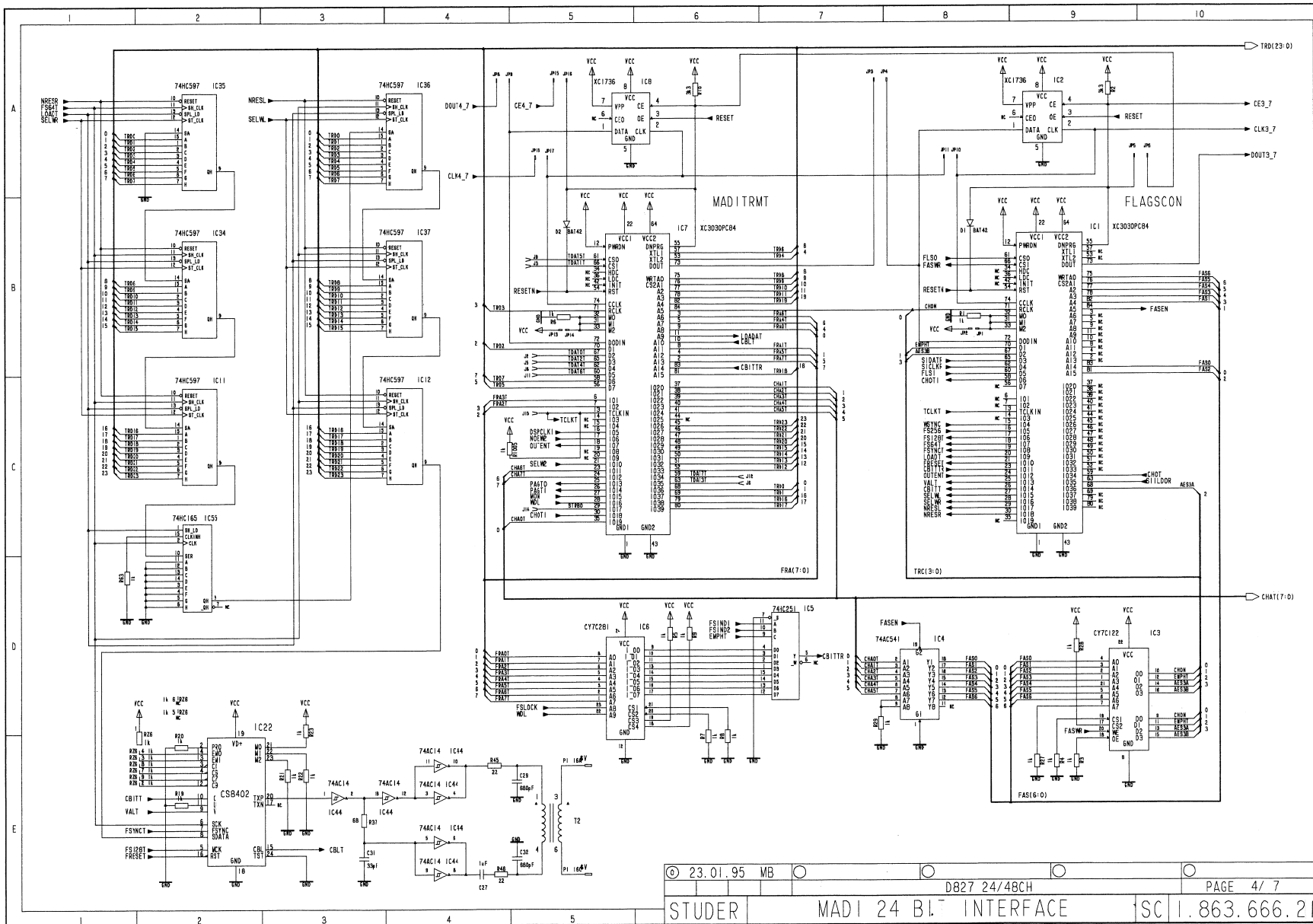
MADI 24 BIT INTERFACE 1.863.666.21





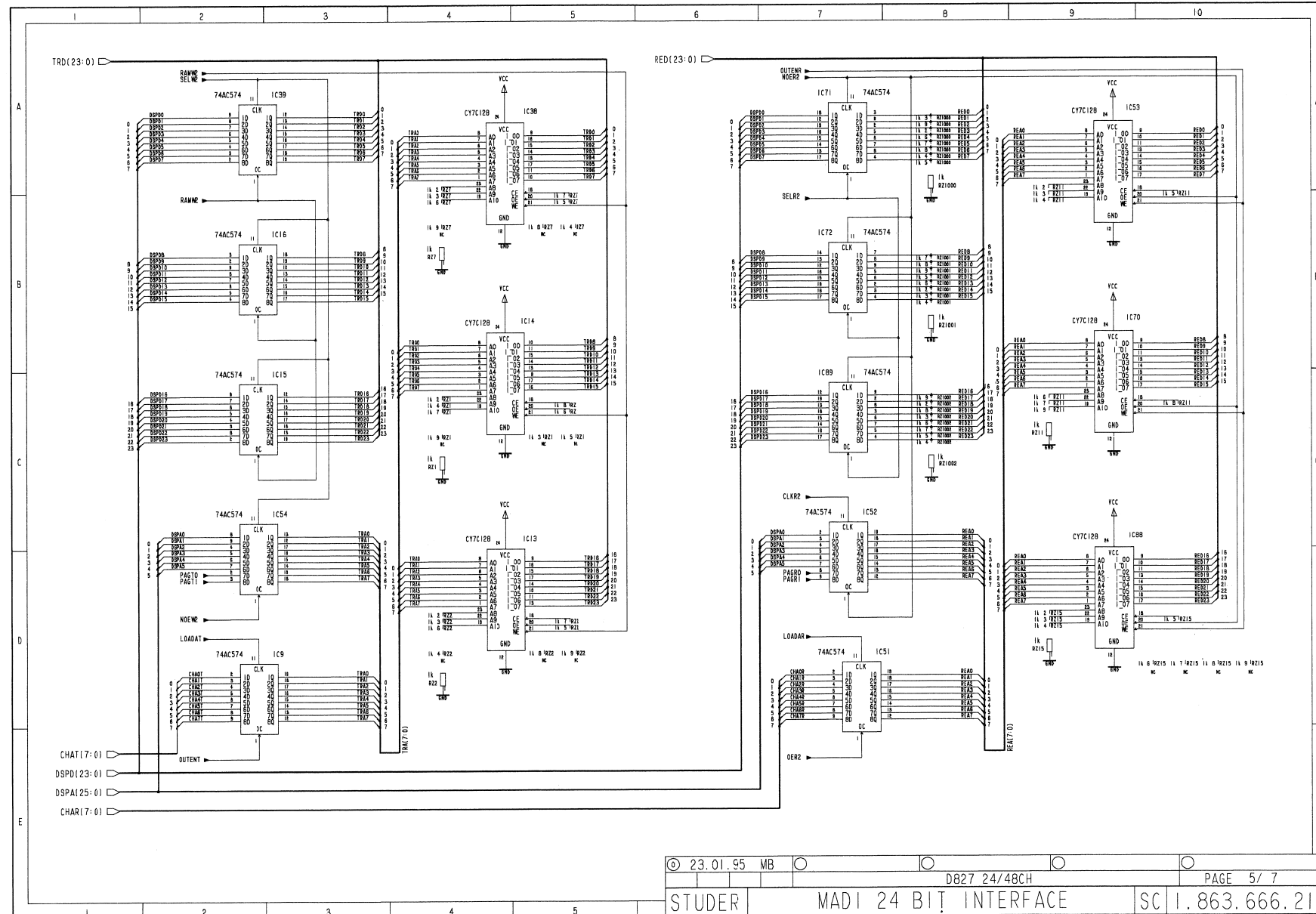
MADI 24 BIT INTERFACE 1.863.666.21





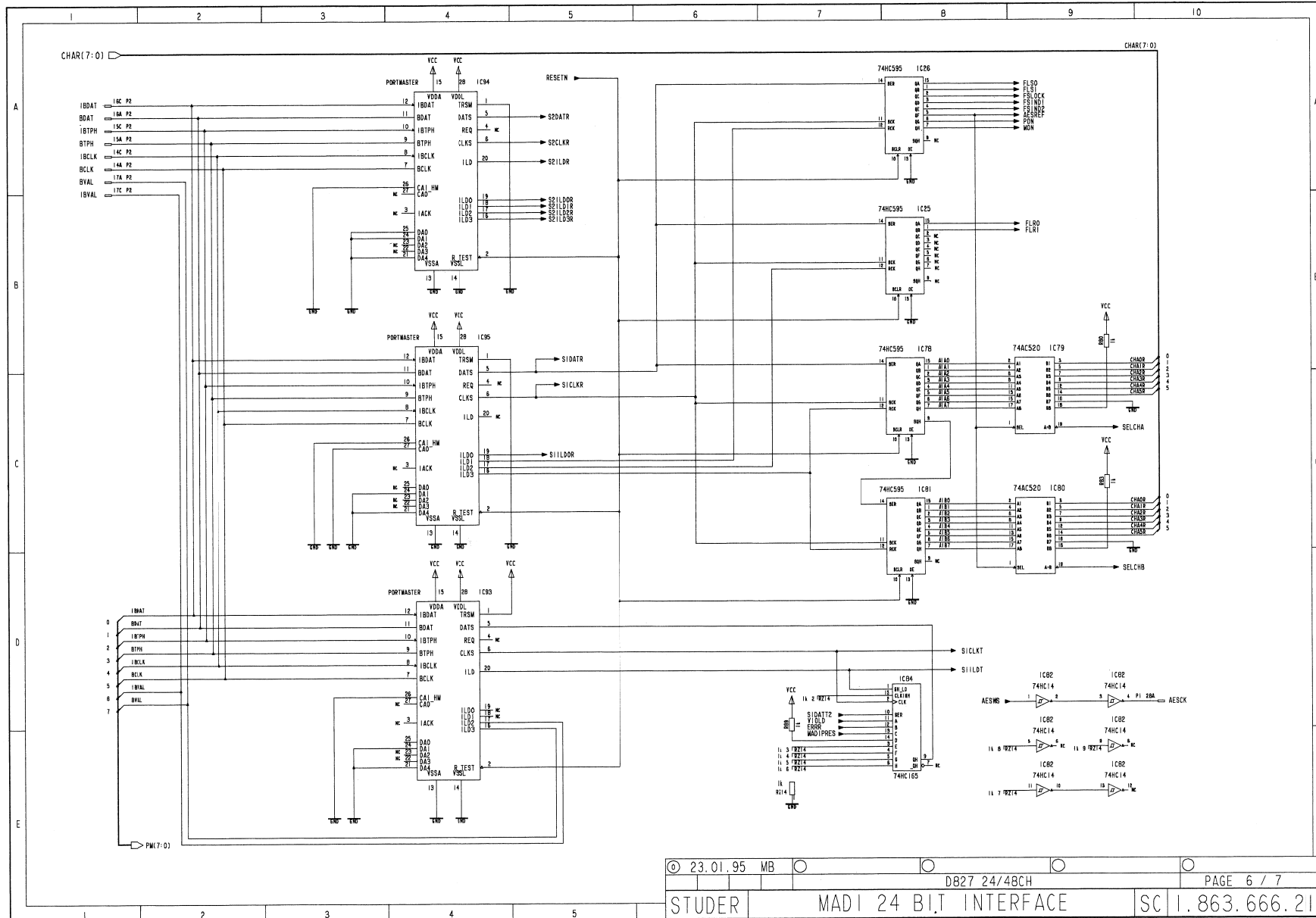


MADI 24 BIT INTERFACE 1.863.666.21





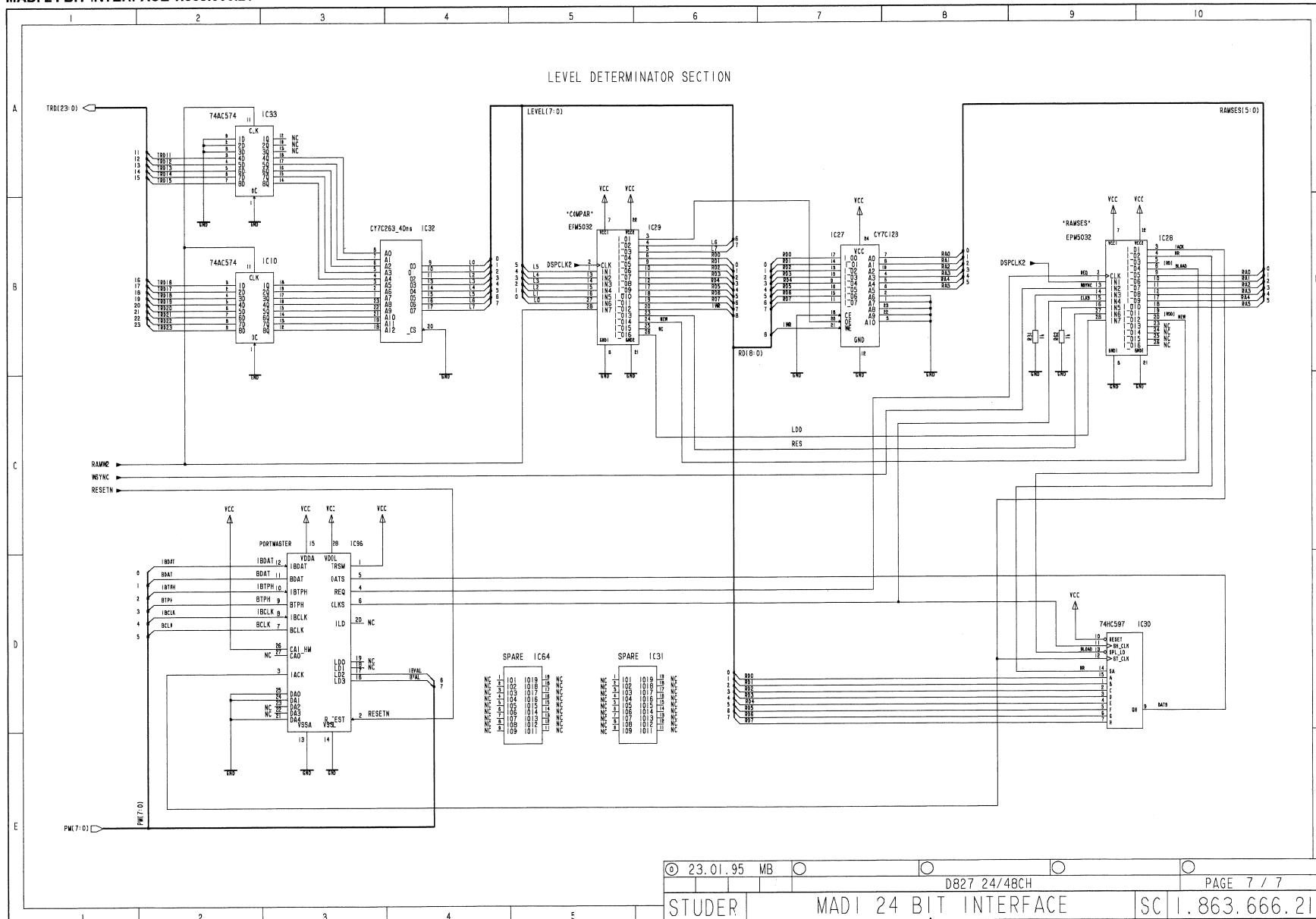
MADI 24 BIT INTERFACE 1.863.666.21



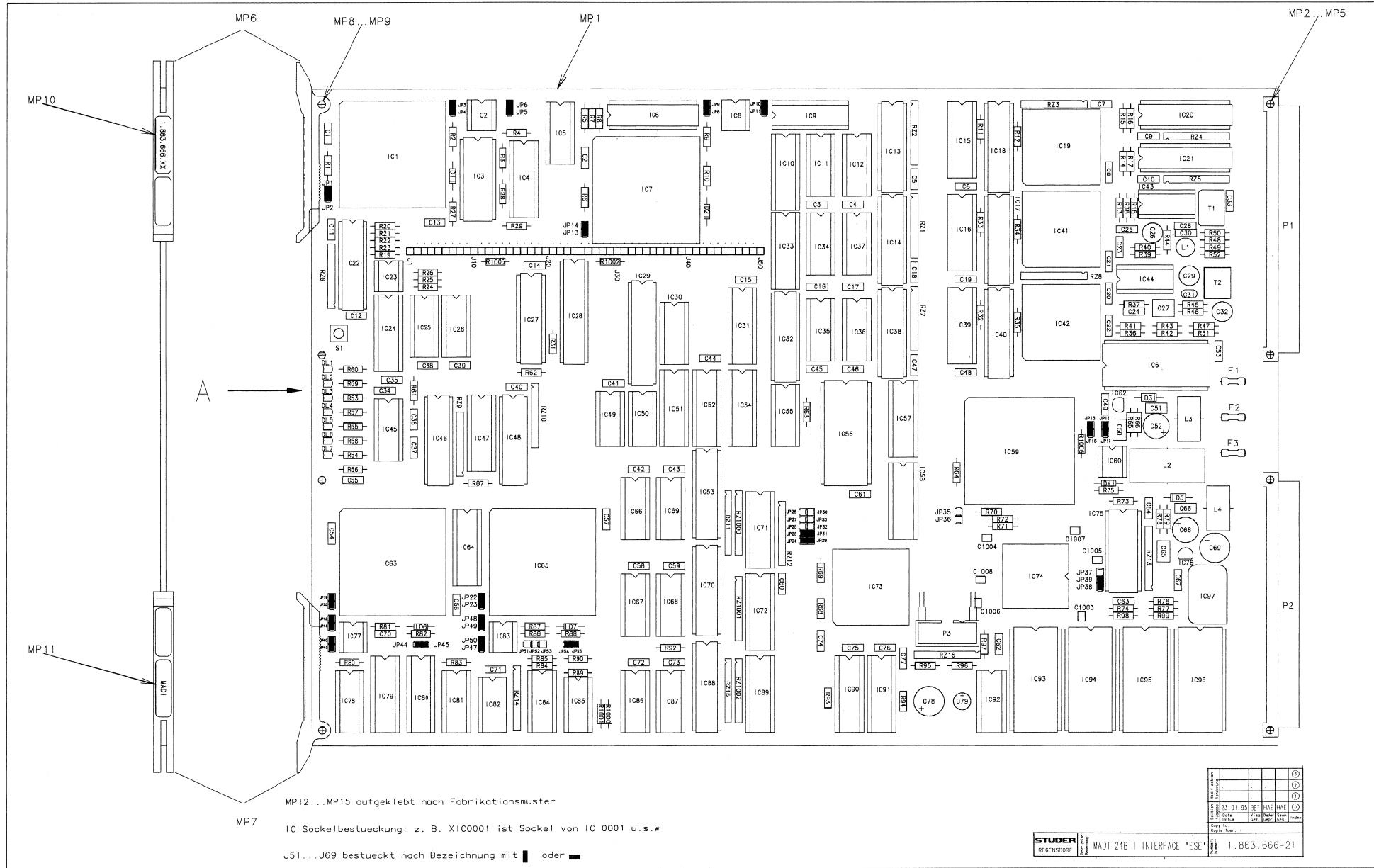




MADI 24 BIT INTERFACE 1.863.666.21



MADI 24 BIT INTERFACE 1.863.666.21



MP12...MP15 aufgeklebt nach Fabrikationsmuster  
 IC Sockelbestueckung: z. B. X1C0001 ist Sockel von IC 0001 u.s.w  
 J51...J69 bestueckt nach Bezeichnung mit  oder

|           |              |      |      |   |   |   |   |   |   |    |
|-----------|--------------|------|------|---|---|---|---|---|---|----|
| Rev.      | 1            | 2    | 3    | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Author    |              |      |      |   |   |   |   |   |   |    |
| Check     |              |      |      |   |   |   |   |   |   |    |
| Scale     |              |      |      |   |   |   |   |   |   |    |
| Material  |              |      |      |   |   |   |   |   |   |    |
| Part No.  | 23 01 35 001 | MADI | MADI |   |   |   |   |   |   |    |
| Order No. | 1.863.666.21 |      |      |   |   |   |   |   |   |    |
| Scale     |              |      |      |   |   |   |   |   |   |    |
| Scale     |              |      |      |   |   |   |   |   |   |    |





MADI 24 BIT INTERFACE 1.863.666.21

| Ad    | ..POS.. | ..REF.No... | DESCRIPTION.....                       | MANUFACTURER | Ad     | ..POS.. | ..REF.No...  | DESCRIPTION.....                          | MANUFACTURER |
|-------|---------|-------------|--|--------------|--------|---------|--------------|---|--------------|
| IC... | 91      | 50.18.0103  | PLD16V8 (SW 1.863.972.20)              |              | JP...  | 23      | 54.01.0020   | 1-P MALE, STR., P-STRIP AU 8mm            |              |
| IC... | 92      | 50.15.0109  | 26LS33 DIP16, QUAD DIFF. LINE RECEIVER |              | JP...  | 24      | 54.01.0020   | 1-P MALE, STR., P-STRIP AU 8mm            |              |
| IC... | 93      | 50.50.0010  | PORTMASTER DIP28, CUSTOM IC            |              | JP...  | 25      | 54.01.0020   | 1-P MALE, STR., P-STRIP AU 8mm            |              |
| IC... | 94      | 50.50.0010  | PORTMASTER DIP28, CUSTOM IC            |              | JP...  | 26      | 54.01.0020   | 1-P MALE, STR., P-STRIP AU 8mm            |              |
| IC... | 95      | 50.50.0010  | PORTMASTER DIP28, CUSTOM IC            |              | JP...  | 27      | 54.01.0020   | 1-P MALE, STR., P-STRIP AU 8mm            |              |
| IC... | 96      | 50.50.0010  | PORTMASTER DIP28, CUSTOM IC            |              | JP...  | 28      | 54.01.0020   | 1-P MALE, STR., P-STRIP AU 8mm            |              |
| IC... | 97      | 89.01.1809  | QUARTZ OSCILLATOR 40.000 Mhz           |              | JP...  | 29      | 54.01.0020   | 1-P MALE, STR., P-STRIP AU 8mm            |              |
| J.... | 1       | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | JP...  | 31      | 54.01.0020   | 1-P MALE, STR., P-STRIP AU 8mm            |              |
| J.... | 2       | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | JP...  | 32      | 54.01.0020   | 1-P MALE, STR., P-STRIP AU 8mm            |              |
| J.... | 3       | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | JP...  | 33      | 54.01.0020   | 1-P MALE, STR., P-STRIP AU 8mm            |              |
| J.... | 4       | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | JP...  | 35      | 54.01.0020   | 1-P MALE, STR., P-STRIP AU 8mm            |              |
| J.... | 5       | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | JP...  | 36      | 54.01.0020   | 1-P MALE, STR., P-STRIP AU 8mm            |              |
| J.... | 6       | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | JP...  | 37      | 54.01.0020   | 1-P MALE, STR., P-STRIP AU 8mm            |              |
| J.... | 7       | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | JP...  | 38      | 54.01.0020   | 1-P MALE, STR., P-STRIP AU 8mm            |              |
| J.... | 8       | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | JP...  | 39      | 54.01.0020   | 1-P MALE, STR., P-STRIP AU 8mm            |              |
| J.... | 9       | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | JP...  | 40      | 54.01.0020   | 1-P MALE, STR., P-STRIP AU 8mm            |              |
| J.... | 10      | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | JP...  | 41      | 54.01.0020   | 1-P MALE, STR., P-STRIP AU 8mm            |              |
| J.... | 11      | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | JP...  | 42      | 54.01.0020   | 1-P MALE, STR., P-STRIP AU 8mm            |              |
| J.... | 12      | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | JP...  | 43      | 54.01.0020   | 1-P MALE, STR., P-STRIP AU 8mm            |              |
| J.... | 13      | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | JP...  | 44      | 54.01.0020   | 1-P MALE, STR., P-STRIP AU 8mm            |              |
| J.... | 14      | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | JP...  | 45      | 54.01.0020   | 1-P MALE, STR., P-STRIP AU 8mm            |              |
| J.... | 15      | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | JP...  | 47      | 54.01.0020   | 1-P MALE, STR., P-STRIP AU 8mm            |              |
| J.... | 16      | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | JP...  | 48      | 54.01.0020   | 1-P MALE, STR., P-STRIP AU 8mm            |              |
| J.... | 17      | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | JP...  | 49      | 54.01.0020   | 1-P MALE, STR., P-STRIP AU 8mm            |              |
| J.... | 18      | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | JP...  | 50      | 54.01.0020   | 1-P MALE, STR., P-STRIP AU 8mm            |              |
| J.... | 19      | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | JP...  | 51      | 54.01.0020   | 1-P MALE, STR., P-STRIP AU 8mm            |              |
| J.... | 20      | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | JP...  | 52      | 54.01.0020   | 1-P MALE, STR., P-STRIP AU 8mm            |              |
| J.... | 21      | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | JP...  | 53      | 54.01.0020   | 1-P MALE, STR., P-STRIP AU 8mm            |              |
| J.... | 22      | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | JP...  | 54      | 54.01.0020   | 1-P MALE, STR., P-STRIP AU 8mm            |              |
| J.... | 23      | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | JP...  | 55      | 54.01.0020   | 1-P MALE, STR., P-STRIP AU 8mm            |              |
| J.... | 24      | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | L..... | 1       | 62.02.3220   | 22uH 1.4 (OHM) , HF-CHOKE                 |              |
| J.... | 25      | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | L..... | 2       | 62.03.0040   | 100uH 5A , TOROIDAL CHOKE                 |              |
| J.... | 26      | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | L..... | 3       | 62.03.0015   | 72uH 2A , TOROIDAL CHOKE                  |              |
| J.... | 27      | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | L..... | 4       | 62.03.0015   | 72uH 2A , TOROIDAL CHOKE                  |              |
| J.... | 28      | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | MP...  | 1       | 1.863.666.11 | EMPTY PCB                                 | ST           |
| J.... | 29      | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | MP...  | 2       | 28.99.0119   | TUBULAR RIVET                             |              |
| J.... | 30      | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | MP...  | 3       | 28.99.0119   | TUBULAR RIVET                             |              |
| J.... | 31      | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | MP...  | 4       | 28.99.0119   | TUBULAR RIVET                             |              |
| J.... | 32      | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | MP...  | 5       | 28.99.0119   | TUBULAR RIVET                             |              |
| J.... | 33      | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | MP...  | 6       | 1.862.650.05 | PCB EJECTOR KNOB                          |              |
| J.... | 34      | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | MP...  | 7       | 1.862.650.05 | PCB EJECTOR KNOB                          |              |
| J.... | 35      | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | MP...  | 8       | 1.862.650.06 | BOLT                                      |              |
| J.... | 36      | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | MP...  | 9       | 1.862.650.06 | BOLT                                      |              |
| J.... | 37      | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | MP...  | 10      | 1.863.666.01 | ETIQUETTE: 1.863.666-XX                   | ANY          |
| J.... | 38      | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | MP...  | 11      | 1.862.665.02 | ETIQUETTE: MADI                           | ANY          |
| J.... | 39      | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | MP...  | 12      | 43.01.0108   | ETIQUETTE: ESE                            | ANY          |
| J.... | 40      | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | MP...  | 13      | 1.010.130.51 | ETIQUETTE: FUSE 7A                        | ANY          |
| J.... | 41      | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | MP...  | 14      | 1.101.001.20 | ETIQUETTE: HARDWARE -20                   | ANY          |
| J.... | 42      | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | MP...  | 15      | 1.863.666.01 | ETIQUETTE: 1.863.666-XX                   | ANY          |
| J.... | 43      | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | P..... | 1       | 54.01.0358   | 96-P MALE, ANG., 54010354, P-EU-C 3*32P   |              |
| J.... | 44      | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | P..... | 2       | 54.01.0358   | 96-P MALE, ANG., 54010354, P-EU-C 3*32P   |              |
| J.... | 45      | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | P..... | 3       | 54.14.2101   | 10-P MALE, STR., 54142101, P-RC-PLUG LOCK |              |
| J.... | 46      | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | R..... | 1       | 57.11.3102   | 1k 0.6W, 1%, 0207, MF                     |              |
| J.... | 47      | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | R..... | 2       | 57.11.3332   | 3k3 0.6W, 1%, 0207, MF                    |              |
| J.... | 48      | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | R..... | 3       | 57.11.3102   | 1k 0.6W, 1%, 0207, MF                     |              |
| J.... | 49      | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | R..... | 4       | 57.11.3102   | 1k 0.6W, 1%, 0207, MF                     |              |
| J.... | 50      | 53.03.0219  | 1-P FEMALE, STR., J-STRIP AU 8mm       |              | R..... | 5       | 57.11.3102   | 1k 0.6W, 1%, 0207, MF                     |              |
| J.... | 51      | 54.01.0021  | JUMPER BRIDGE, 2 * 0.63 AU             |              | R..... | 6       | 57.11.3102   | 1k 0.6W, 1%, 0207, MF                     |              |
| J.... | 52      | 54.01.0021  | JUMPER BRIDGE, 2 * 0.63 AU             |              | R..... | 7       | 57.11.3102   | 1k 0.6W, 1%, 0207, MF                     |              |
| J.... | 53      | 54.01.0021  | JUMPER BRIDGE, 2 * 0.63 AU             |              | R..... | 8       | 57.11.3102   | 1k 0.6W, 1%, 0207, MF                     |              |
| J.... | 54      | 54.01.0021  | JUMPER BRIDGE, 2 * 0.63 AU             |              | R..... | 9       | 57.11.3102   | 1k 0.6W, 1%, 0207, MF                     |              |
| J.... | 55      | 54.01.0021  | JUMPER BRIDGE, 2 * 0.63 AU             |              | R..... | 10      | 57.11.3102   | 1k 0.6W, 1%, 0207, MF                     |              |
| J.... | 56      | 54.01.0021  | JUMPER BRIDGE, 2 * 0.63 AU             |              | R..... | 11      | 57.11.3102   | 1k 0.6W, 1%, 0207, MF                     |              |
| J.... | 57      | 54.01.0021  | JUMPER BRIDGE, 2 * 0.63 AU             |              | R..... | 12      | 57.11.3102   | 1k 0.6W, 1%, 0207, MF                     |              |
| J.... | 58      | 54.01.0021  | JUMPER BRIDGE, 2 * 0.63 AU             |              | R..... | 13      | 57.11.3102   | 1k 0.6W, 1%, 0207, MF                     |              |
| J.... | 59      | 54.01.0021  | JUMPER BRIDGE, 2 * 0.63 AU             |              | R..... | 14      | 57.11.3102   | 1k 0.6W, 1%, 0207, MF                     |              |
| J.... | 60      | 54.01.0021  | JUMPER BRIDGE, 2 * 0.63 AU             |              | R..... | 15      | 57.11.3102   | 1k 0.6W, 1%, 0207, MF                     |              |
| J.... | 61      | 54.01.0021  | JUMPER BRIDGE, 2 * 0.63 AU             |              | R..... | 16      | 57.11.3102   | 1k 0.6W, 1%, 0207, MF                     |              |
| J.... | 62      | 54.01.0021  | JUMPER BRIDGE, 2 * 0.63 AU             |              | R..... | 17      | 57.11.3102   | 1k 0.6W, 1%, 0207, MF                     |              |
| J.... | 63      | 54.01.0021  | JUMPER BRIDGE, 2 * 0.63 AU             |              | R..... | 18      | 57.11.3102   | 1k 0.6W, 1%, 0207, MF                     |              |
| J.... | 64      | 54.01.0021  | JUMPER BRIDGE, 2 * 0.63 AU             |              | R..... | 19      | 57.11.3102   | 1k 0.6W, 1%, 0207, MF                     |              |
| J.... | 65      | 54.01.0021  | JUMPER BRIDGE, 2 * 0.63 AU             |              | R..... | 20      | 57.11.3102   | 1k 0.6W, 1%, 0207, MF                     |              |
| J.... | 66      | 54.01.0021  | JUMPER BRIDGE, 2 * 0.63 AU             |              | R..... | 21      | 57.11.3102   | 1k 0.6W, 1%, 0207, MF                     |              |
| J.... | 67      | 54.01.0021  | JUMPER BRIDGE, 2 * 0.63 AU             |              | R..... | 22      | 57.11.3102   | 1k 0.6W, 1%, 0207, MF                     |              |
| J.... | 68      | 54.01.0021  | JUMPER BRIDGE, 2 * 0.63 AU             |              | R..... | 23      | 57.11.3102   | 1k 0.6W, 1%, 0207, MF                     |              |
| J.... | 69      | 54.01.0021  | JUMPER BRIDGE, 2 * 0.63 AU             |              | R..... | 24      | 57.11.3102   | 1k 0.6W, 1%, 0207, MF                     |              |
| JP... | 1       | 54.01.0020  | 1-P MALE, STR., P-STRIP AU 8mm         |              | R..... | 25      | 57.11.3102   | 1k 0.6W, 1%, 0207, MF                     |              |
| JP... | 2       | 54.01.0020  | 1-P MALE, STR., P-STRIP AU 8mm         |              | R..... | 26      | 57.11.3102   | 1k 0.6W, 1%, 0207, MF                     |              |
| JP... | 3       | 54.01.0020  | 1-P MALE, STR., P-STRIP AU 8mm         |              | R..... | 27      | 57.11.3102   | 1k 0.6W, 1%, 0207, MF                     |              |
| JP... | 4       | 54.01.0020  | 1-P MALE, STR., P-STRIP AU 8mm         |              | R..... | 28      | 57.11.3102   | 1k 0.6W, 1%, 0207, MF                     |              |
| JP... | 5       | 54.01.0020  | 1-P MALE, STR., P-STRIP AU 8mm         |              | R..... | 29      | 57.11.3102   | 1k 0.6W, 1%, 0207, MF                     |              |
| JP... | 6       | 54.01.0020  | 1-P MALE, STR., P-STRIP AU 8mm         |              | R..... | 31      | 57.11.3102   | 1k 0.6W, 1%, 0207, MF                     |              |
| JP... | 7       | 54.01.0020  | 1-P MALE, STR., P-STRIP AU 8mm         |              | R..... | 32      | 57.11.3102   | 1k 0.6W, 1%, 0207, MF                     |              |
| JP... | 8       | 54.01.0020  | 1-P MALE, STR., P-STRIP AU 8mm         |              | R..... | 33      | 57.11.3102   | 1k 0.6W, 1%, 0207, MF                     |              |
| JP... | 9       | 54.01.0020  | 1-P MALE, STR., P-STRIP AU 8mm         |              | R..... | 34      | 57.11.3102   | 1k 0.6W, 1%, 0207, MF                     |              |
| JP... | 10      | 54.01.0020  | 1-P MALE, STR., P-STRIP AU 8mm         |              | R..... | 35      | 57.11.3102   | 1k 0.6W, 1%, 0207, MF                     |              |
| JP... | 11      | 54.01.0020  | 1-P MALE, STR., P-STRIP AU 8mm         |              | R..... | 36      | 57.11.3102   | 1k 0.6W, 1%, 0207, MF                     |              |
| JP... | 12      | 54.01.0020  | 1-P MALE, STR., P-STRIP AU 8mm         |              | R..... | 37      | 57.11.3102   | 1k 0.6W, 1%, 0207, MF                     |              |
| JP... | 13      | 54.01.0020  | 1-P MALE, STR., P-STRIP AU 8mm         |              | R..... | 38      | 57.11.3102   | 1k 0.6W, 1%, 0207, MF                     |              |
| JP... | 14      | 54.01.0020  | 1-P MALE, STR., P-STRIP AU 8mm         |              | R..... | 39      | 57.11.3102   | 1k 0.6W, 1%, 0207, MF                     |              |
| JP... | 15      | 54.01.0020  | 1-P MALE, STR., P-STRIP AU 8mm         |              | R..... | 40      | 57.11.3102   | 1k 0.6W, 1%, 0207, MF                     |              |
| JP... | 16      | 54.01.0020  | 1-P MALE, STR., P-STRIP AU 8mm         |              | R..... | 41      | 57.11.3102   | 1k 0.6W, 1%, 0207, MF                     |              |
| JP... | 17      | 54.01.0020  | 1-P MALE, STR., P-STRIP AU 8mm         |              | R..... | 42      | 57.11.3102   | 1k 0.6W, 1%, 0207, MF                     |              |
| JP... | 18      | 54.01.0020  | 1-P MALE, STR., P-STRIP AU 8mm         |              |        |         |              |   |              |
| JP... | 19      | 54.01.0020  | 1-P MALE, STR., P-STRIP AU 8mm         |              |        |         |              |   |              |
| JP... | 20      | 54.01.0020  | 1-P MALE, STR., P-STRIP AU 8mm         |              |        |         |              |   |              |
| JP... | 22      | 54.01.0020  | 1-P MALE, STR., P-STRIP AU 8mm         |              |        |         |              |   |              |



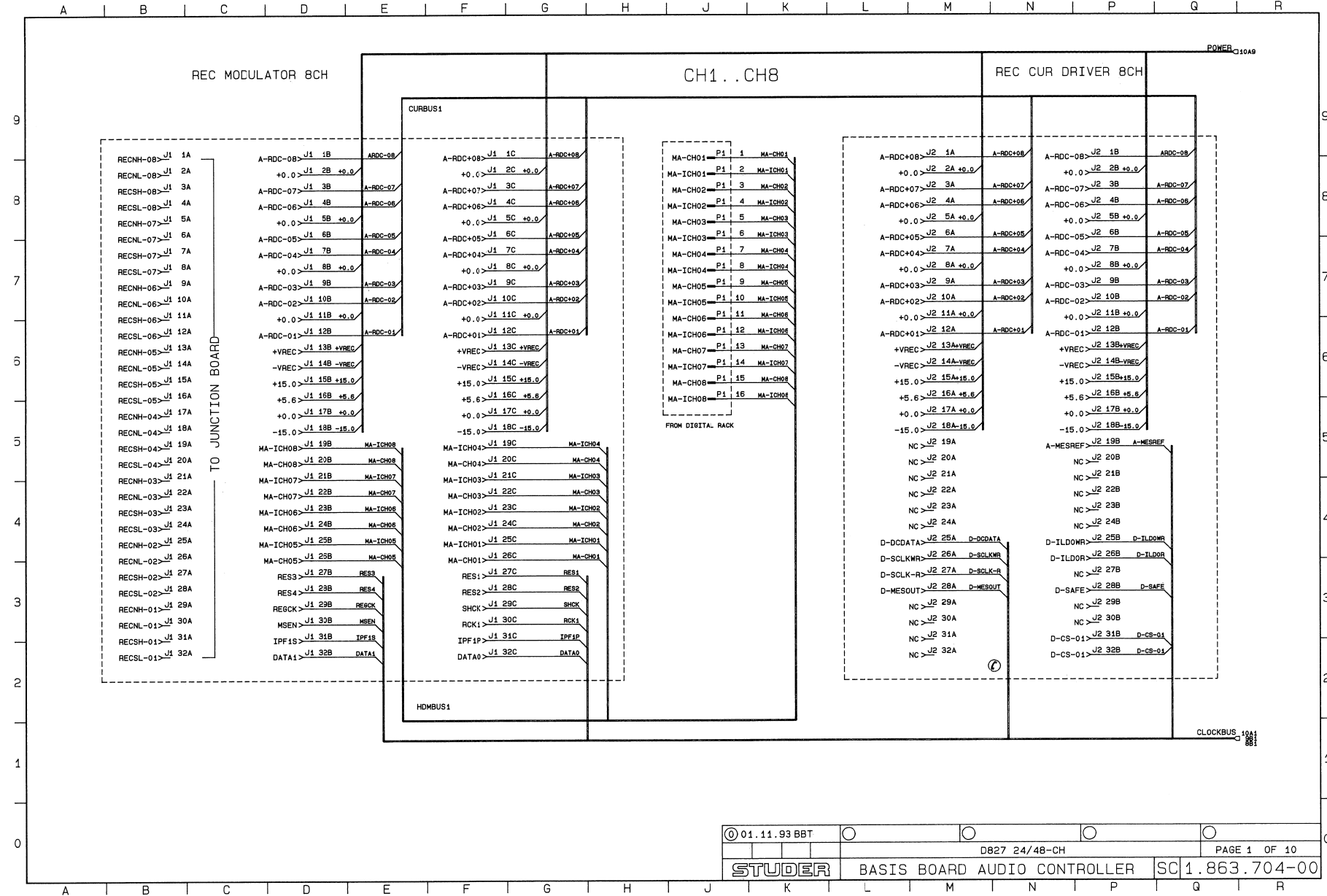
MADI 24 BIT INTERFACE 1.863.666.21

| Ad     | ..POS.. | ..REF.No..   | DESCRIPTION | MANUFACTURER                       | Ad     | ..POS.. | ..REF.No.. | DESCRIPTION | MANUFACTURER |
|--------|---------|--------------|-------------|------------------------------------|--------|---------|------------|-------------|--------------|
| R...   | 43      | 57.11.3102   | 1k          | 0.6W, 1%, 0207, MF                 | XIC... | 1       | 53.03.2284 | PLCC84      |              |
| R...   | 44      | 57.11.3471   | 470         | 0.6W, 1%, 0207, MF                 | XIC... | 6       | 53.03.0182 | DIL24-3     |              |
| R...   | 45      | 57.11.3220   | 22          | 0.6W, 1%, 0207, MF                 | XIC... | 7       | 53.03.2284 | PLCC84      |              |
| R...   | 46      | 57.11.3220   | 22          | 0.6W, 1%, 0207, MF                 |        |         |            |             |              |
| K...   | 47      | 57.11.3102   | 1k          | 0.6W, 1%, 0207, MF                 | XIC... | 19      | 53.03.2252 | PLCC52      |              |
| R...   | 48      | 57.11.3271   | 270         | 0.6W, 1%, 0207, MF                 | XIC... | 20      | 53.03.0182 | DIL24-3     |              |
| R...   | 49      | 57.11.3271   | 270         | 0.6W, 1%, 0207, MF                 |        |         |            |             |              |
| R...   | 50      | 57.11.3150   | 15          | 0.6W, 1%, 0207, MF                 | XIC... | 21      | 53.03.0182 | DIL24-3     |              |
| R...   | 51      | 57.11.3102   | 1k          | 0.6W, 1%, 0207, MF                 | XIC... | 28      | 53.03.0167 | DIL14       |              |
| R...   | 52      | 57.11.3150   | 15          | 0.6W, 1%, 0207, MF                 | XIC... | 28      | 53.03.0167 | DIL14       |              |
| R...   | 53      | 57.11.3331   | 330         | 0.6W, 1%, 0207, MF                 | XIC... | 29      | 53.03.0167 | DIL14       |              |
| R...   | 54      | 57.11.3331   | 330         | 0.6W, 1%, 0207, MF                 | XIC... | 29      | 53.03.0167 | DIL14       |              |
| R...   | 55      | 57.11.3331   | 330         | 0.6W, 1%, 0207, MF                 |        |         |            |             |              |
| R...   | 56      | 57.11.3104   | 100k        | 0.6W, 1%, 0207, MF                 | XIC... | 32      | 53.03.0182 | DIL24-3     |              |
| R...   | 57      | 57.11.3331   | 330         | 0.6W, 1%, 0207, MF                 | XIC... | 41      | 53.03.2252 | PLCC52      |              |
| R...   | 58      | 57.11.3331   | 330         | 0.6W, 1%, 0207, MF                 | XIC... | 42      | 53.03.2252 | PLCC52      |              |
| R...   | 59      | 57.11.3331   | 330         | 0.6W, 1%, 0207, MF                 | XIC... | 44      | 53.03.0167 | DIL14       |              |
| R...   | 60      | 57.11.3331   | 330         | 0.6W, 1%, 0207, MF                 |        |         |            |             |              |
| R...   | 61      | 57.11.3104   | 100k        | 0.6W, 1%, 0207, MF                 | XIC... | 56      | 53.03.0173 | DIL28       |              |
| R...   | 62      | 57.11.3102   | 1k          | 0.6W, 1%, 0207, MF                 | XIC... | 59      | 53.03.2284 | PLCC84      |              |
| R...   | 63      | 57.11.3102   | 1k          | 0.6W, 1%, 0207, MF                 | XIC... | 60      | 53.03.0166 | DIL08       |              |
| R...   | 64      | 57.11.3102   | 1k          | 0.6W, 1%, 0207, MF                 |        |         |            |             |              |
| R...   | 65      | 57.11.3241   | 240         | 0.6W, 1%, 0207, MF                 | XIC... | 63      | 53.03.2284 | PLCC84      |              |
| R...   | 66      | 57.11.3202   | 2k          | 0.6W, 1%, 0207, MF                 | XIC... | 65      | 53.03.2284 | PLCC84      |              |
| R...   | 67      | 57.11.3102   | 1k          | 0.6W, 1%, 0207, MF                 |        |         |            |             |              |
| R...   | 68      | 57.11.3102   | 1k          | 0.6W, 1%, 0207, MF                 | XIC... | 73      | 53.03.2252 | PLCC52      |              |
| R...   | 69      | 57.11.3102   | 1k          | 0.6W, 1%, 0207, MF                 | XIC... | 82      | 53.03.0167 | DIL14       |              |
| R...   | 70      | 57.11.3102   | 1k          | 0.6W, 1%, 0207, MF                 | XIC... | 84      | 53.03.0168 | DIL16       |              |
| R...   | 71      | 57.11.3102   | 1k          | 0.6W, 1%, 0207, MF                 | XIC... | 90      | 53.03.0165 | DIL20       |              |
| R...   | 72      | 57.11.3102   | 1k          | 0.6W, 1%, 0207, MF                 |        |         |            |             |              |
| R...   | 73      | 57.11.3102   | 1k          | 0.6W, 1%, 0207, MF                 | XIC... | 91      | 53.03.0165 | DIL20       |              |
| R...   | 74      | 57.11.3102   | 1k          | 0.6W, 1%, 0207, MF                 | XIC... | 93      | 53.03.0173 | DIL28       |              |
| R...   | 75      | 57.11.3332   | 3k3         | 0.6W, 1%, 0207, MF                 | XIC... | 94      | 53.03.0173 | DIL28       |              |
| R...   | 76      | 57.11.3102   | 1k          | 0.6W, 1%, 0207, MF                 | XIC... | 95      | 53.03.0173 | DIL28       |              |
| R...   | 77      | 57.11.3102   | 1k          | 0.6W, 1%, 0207, MF                 | XIC... | 96      | 53.03.0173 | DIL28       |              |
| R...   | 78      | 57.11.3821   | 820         | 0.6W, 1%, 0207, MF                 |        |         |            |             |              |
| R...   | 79      | 57.11.3121   | 120         | 0.6W, 1%, 0207, MF                 |        |         |            |             |              |
| R...   | 80      | 57.11.3102   | 1k          | 0.6W, 1%, 0207, MF                 |        |         |            |             |              |
| R...   | 81      | 57.11.3102   | 1k          | 0.6W, 1%, 0207, MF                 |        |         |            |             |              |
| R...   | 82      | 57.11.3102   | 1k          | 0.6W, 1%, 0207, MF                 |        |         |            |             |              |
| R...   | 83      | 57.11.3332   | 3k3         | 0.6W, 1%, 0207, MF                 |        |         |            |             |              |
| R...   | 84      | 57.11.3102   | 1k          | 0.6W, 1%, 0207, MF                 |        |         |            |             |              |
| R...   | 85      | 57.11.3102   | 1k          | 0.6W, 1%, 0207, MF                 |        |         |            |             |              |
| R...   | 86      | 57.11.3102   | 1k          | 0.6W, 1%, 0207, MF                 |        |         |            |             |              |
| R...   | 87      | 57.11.3102   | 1k          | 0.6W, 1%, 0207, MF                 |        |         |            |             |              |
| R...   | 88      | 57.11.3332   | 3k3         | 0.6W, 1%, 0207, MF                 |        |         |            |             |              |
| R...   | 89      | 57.11.3102   | 1k          | 0.6W, 1%, 0207, MF                 |        |         |            |             |              |
| R...   | 90      | 57.11.3102   | 1k          | 0.6W, 1%, 0207, MF                 |        |         |            |             |              |
| R...   | 92      | 57.11.3102   | 1k          | 0.6W, 1%, 0207, MF                 |        |         |            |             |              |
| R...   | 93      | 57.11.3102   | 1k          | 0.6W, 1%, 0207, MF                 |        |         |            |             |              |
| R...   | 94      | 57.11.3102   | 1k          | 0.6W, 1%, 0207, MF                 |        |         |            |             |              |
| R...   | 95      | 57.11.3332   | 3k3         | 0.6W, 1%, 0207, MF                 |        |         |            |             |              |
| R...   | 96      | 57.11.3332   | 3k3         | 0.6W, 1%, 0207, MF                 |        |         |            |             |              |
| R...   | 97      | 57.11.3102   | 1k          | 0.6W, 1%, 0207, MF                 |        |         |            |             |              |
| R...   | 98      | 57.11.3102   | 1k          | 0.6W, 1%, 0207, MF                 |        |         |            |             |              |
| R...   | 99      | 57.11.3102   | 1k          | 0.6W, 1%, 0207, MF                 |        |         |            |             |              |
| R...   | 1000    | 57.11.3220   | 22          | 0.6W, 1%, 0207, MF                 |        |         |            |             |              |
| R...   | 1001    | 57.11.3330   | 33          | 0.6W, 1%, 0207, MF                 |        |         |            |             |              |
| R...   | 1002    | 57.11.3102   | 1k          | 0.6W, 1%, 0207, MF                 |        |         |            |             |              |
| R...   | 1005    | 57.11.3102   | 1k          | 0.6W, 1%, 0207, MF                 |        |         |            |             |              |
| R...   | 1006    | 57.11.3102   | 1k          | 0.6W, 1%, 0207, MF                 |        |         |            |             |              |
| RZ...  | 1       | 57.88.4102   | 1k          | 0.125W, 2%, SIP09, 8 * 1K          |        |         |            |             |              |
| RZ...  | 2       | 57.88.4102   | 1k          | 0.125W, 2%, SIP09, 8 * 1K          |        |         |            |             |              |
| RZ...  | 3       | 57.88.4102   | 1k          | 0.125W, 2%, SIP09, 8 * 1K          |        |         |            |             |              |
| RZ...  | 4       | 57.88.4102   | 1k          | 0.125W, 2%, SIP09, 8 * 1K          |        |         |            |             |              |
| RZ...  | 5       | 57.88.4102   | 1k          | 0.125W, 2%, SIP09, 8 * 1K          |        |         |            |             |              |
| RZ...  | 6       | 57.88.4102   | 1k          | 0.125W, 2%, SIP09, 8 * 1K          |        |         |            |             |              |
| RZ...  | 7       | 57.88.4102   | 1k          | 0.125W, 2%, SIP09, 8 * 1K          |        |         |            |             |              |
| RZ...  | 8       | 57.88.4102   | 1k          | 0.125W, 2%, SIP09, 8 * 1K          |        |         |            |             |              |
| RZ...  | 9       | 57.88.4102   | 1k          | 0.125W, 2%, SIP09, 8 * 1K          |        |         |            |             |              |
| RZ...  | 10      | 57.88.4102   | 1k          | 0.125W, 2%, SIP09, 8 * 1K          |        |         |            |             |              |
| RZ...  | 11      | 57.88.4102   | 1k          | 0.125W, 2%, SIP09, 8 * 1K          |        |         |            |             |              |
| RZ...  | 12      | 57.88.4102   | 1k          | 0.125W, 2%, SIP09, 8 * 1K          |        |         |            |             |              |
| RZ...  | 13      | 57.88.4102   | 1k          | 0.125W, 2%, SIP09, 8 * 1K          |        |         |            |             |              |
| RZ...  | 14      | 57.88.4102   | 1k          | 0.125W, 2%, SIP09, 8 * 1K          |        |         |            |             |              |
| RZ...  | 15      | 57.88.4102   | 1k          | 0.125W, 2%, SIP09, 8 * 1K          |        |         |            |             |              |
| RZ...  | 16      | 57.88.4102   | 1k          | 0.125W, 2%, SIP09, 8 * 1K          |        |         |            |             |              |
| RZ...  | 1000    | 57.88.4102   | 1k          | 0.125W, 2%, SIP09, 8 * 1K          |        |         |            |             |              |
| RZ...  | 1001    | 57.88.4102   | 1k          | 0.125W, 2%, SIP09, 8 * 1K          |        |         |            |             |              |
| RZ...  | 1002    | 57.88.4102   | 1k          | 0.125W, 2%, SIP09, 8 * 1K          |        |         |            |             |              |
| S...   | 1       | 55.15.0138   | 1*A         | KEY-SWITCH NON LATCHING            |        |         |            |             |              |
| T...   | 1       | 63.15.0001   | T766        | PULSE TRANSFORMER                  |        |         |            |             |              |
| T...   | 2       | 1.022.647.00 | 1:1.4       | EP7,OUTPUT TRAF0 AES/EBU 102264700 |        |         |            |             |              |
| GND... | 1       | 54.02.0320   | 1-P         | MALE, STR., FLATPIN 2.8*0.8        |        |         |            |             |              |
| GND... | 2       | 54.02.0320   | 1-P         | MALE, STR., FLATPIN 2.8*0.8        |        |         |            |             |              |
| GND... | 3       | 54.02.0320   | 1-P         | MALE, STR., FLATPIN 2.8*0.8        |        |         |            |             |              |
| GND... | 4       | 54.02.0320   | 1-P         | MALE, STR., FLATPIN 2.8*0.8        |        |         |            |             |              |
| GND... | 5       | 54.02.0320   | 1-P         | MALE, STR., FLATPIN 2.8*0.8        |        |         |            |             |              |
| GND... | 6       | 54.02.0320   | 1-P         | MALE, STR., FLATPIN 2.8*0.8        |        |         |            |             |              |
| GND... | 7       | 54.02.0320   | 1-P         | MALE, STR., FLATPIN 2.8*0.8        |        |         |            |             |              |
| GND... | 8       | 54.02.0320   | 1-P         | MALE, STR., FLATPIN 2.8*0.8        |        |         |            |             |              |
| GND... | 9       | 54.02.0320   | 1-P         | MALE, STR., FLATPIN 2.8*0.8        |        |         |            |             |              |
| GND... | 10      | 54.02.0320   | 1-P         | MALE, STR., FLATPIN 2.8*0.8        |        |         |            |             |              |

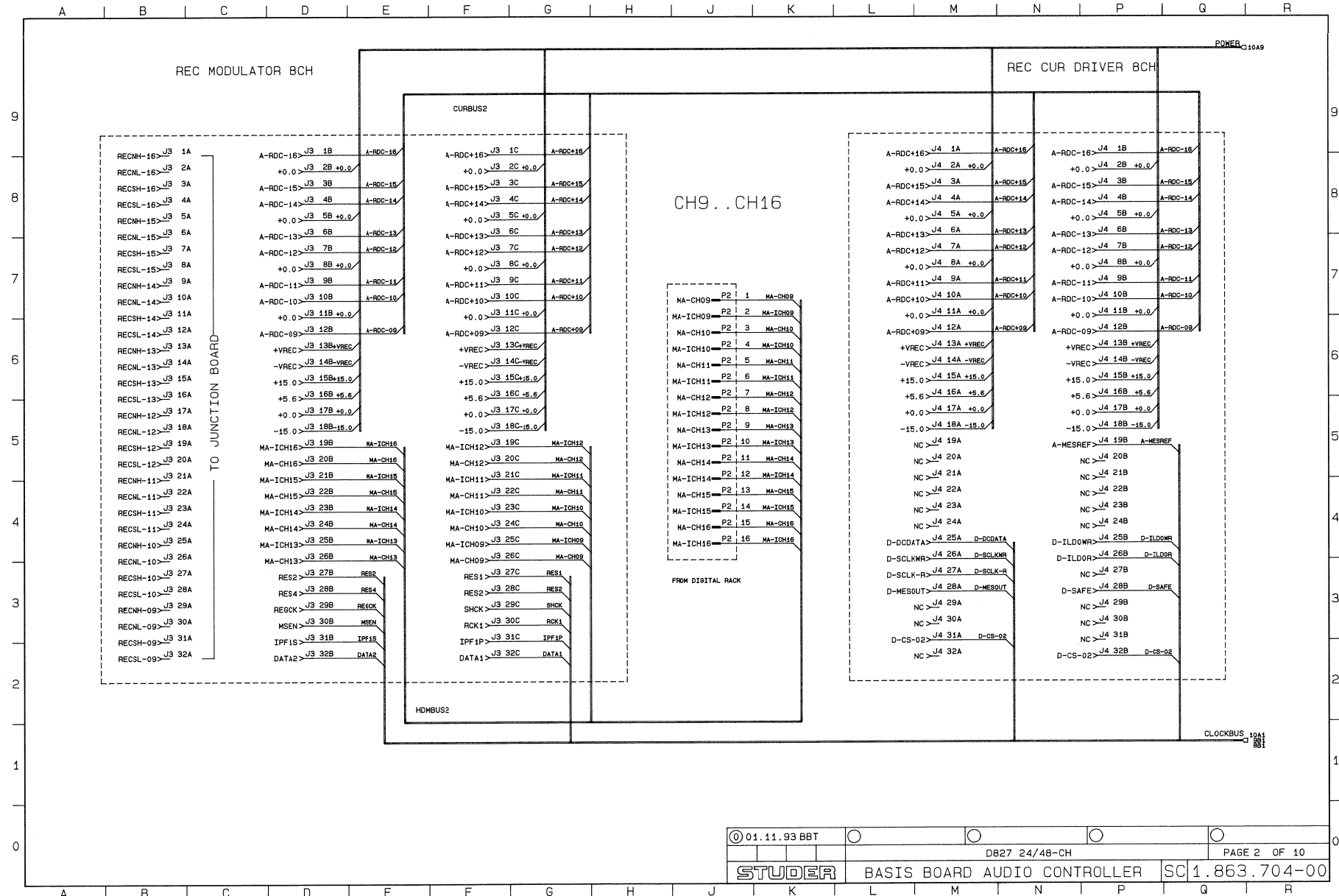
END

1.863.666.20 MADI 24 BIT INTERFACE BBT95-01-2300

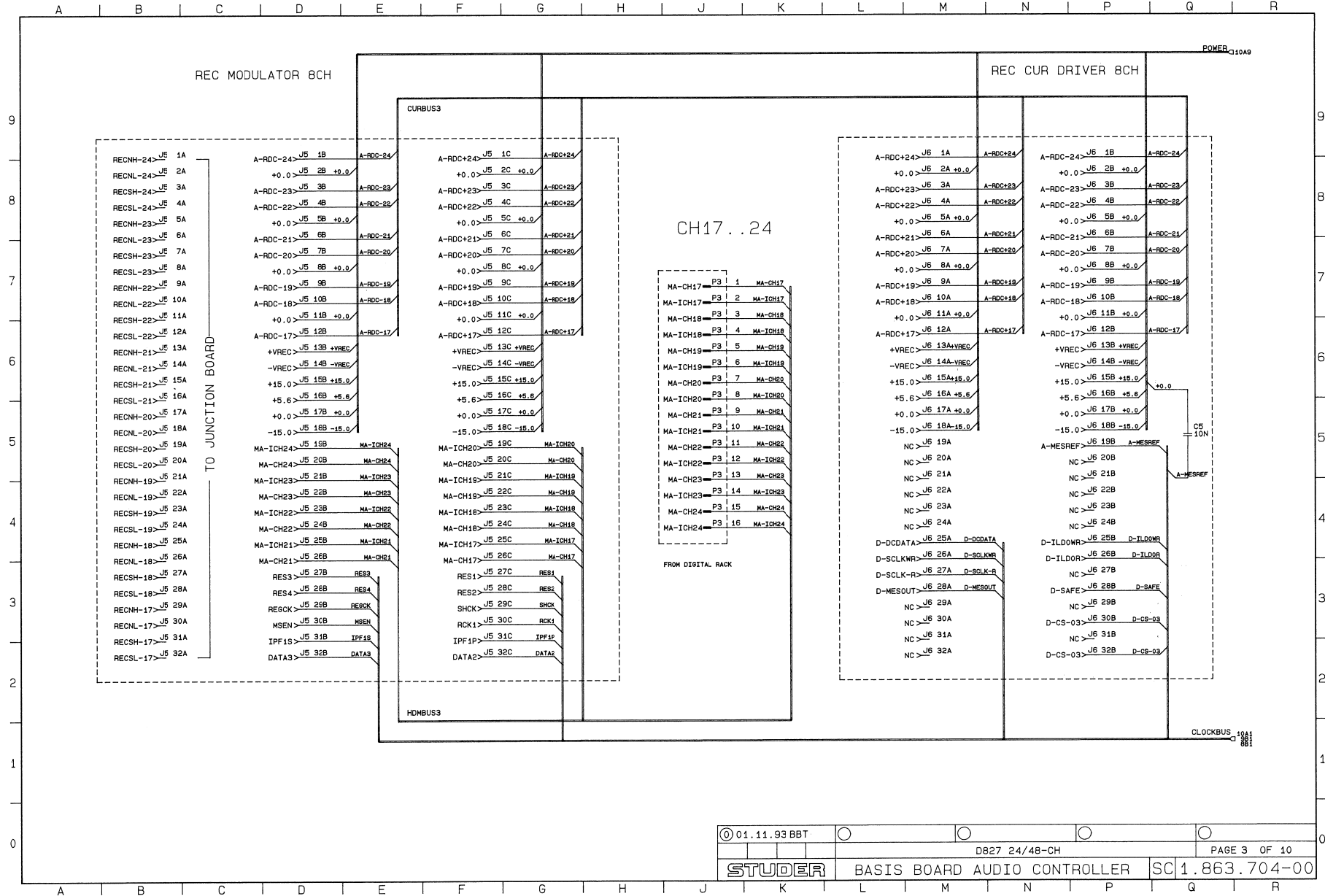
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BASIS BOARD AUDIO CONTROLLER 24 / 48CH 1.863.704.00

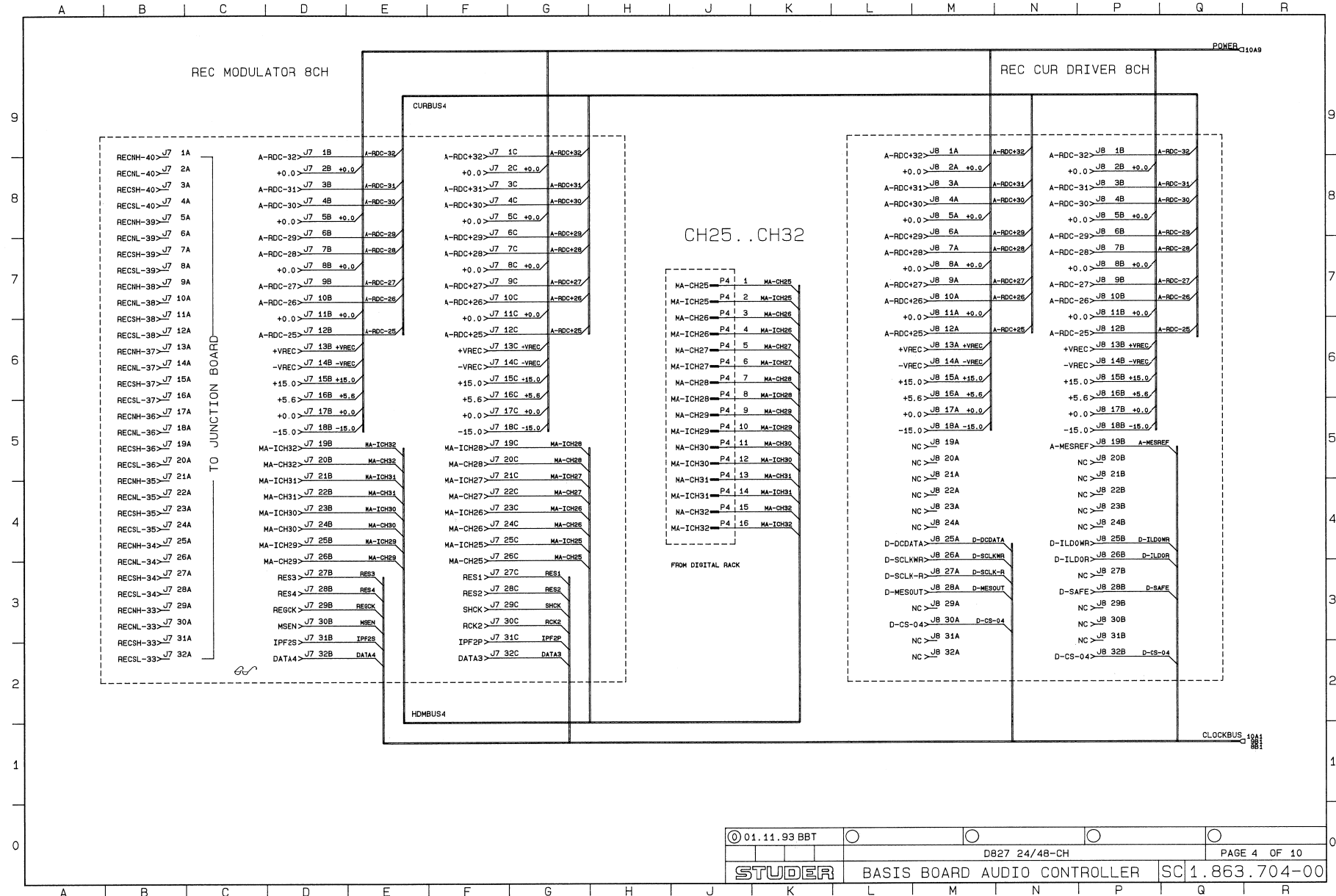


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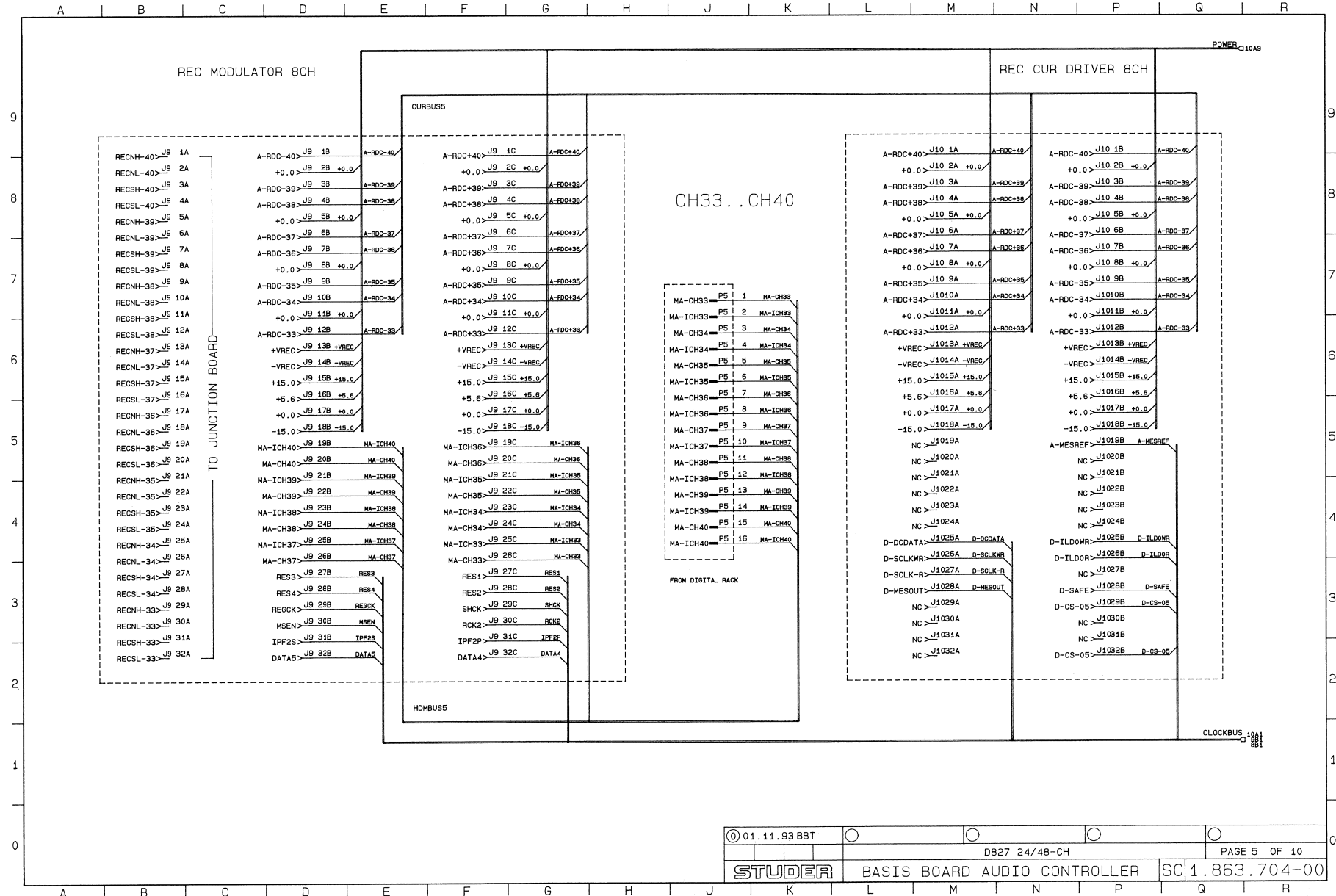




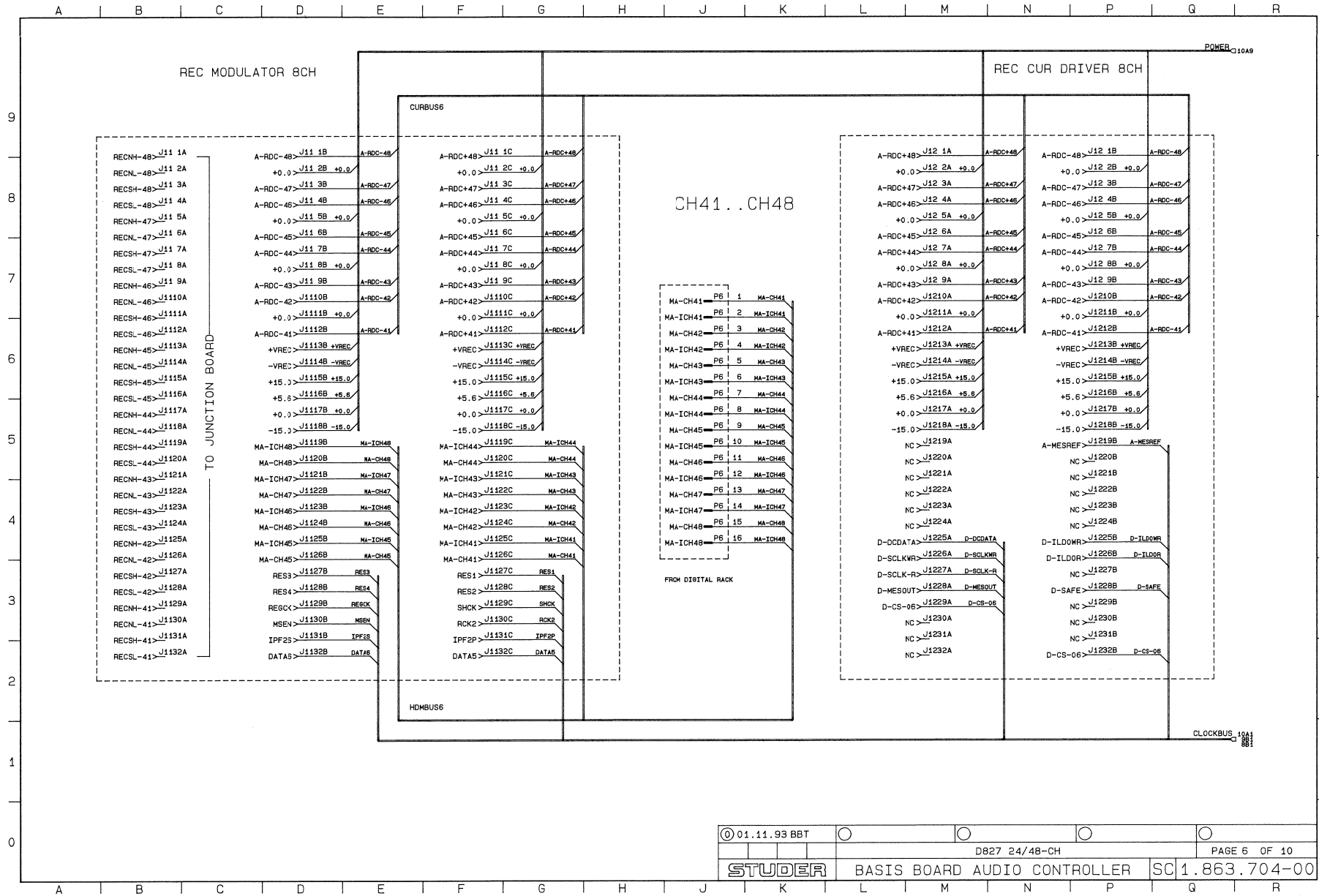
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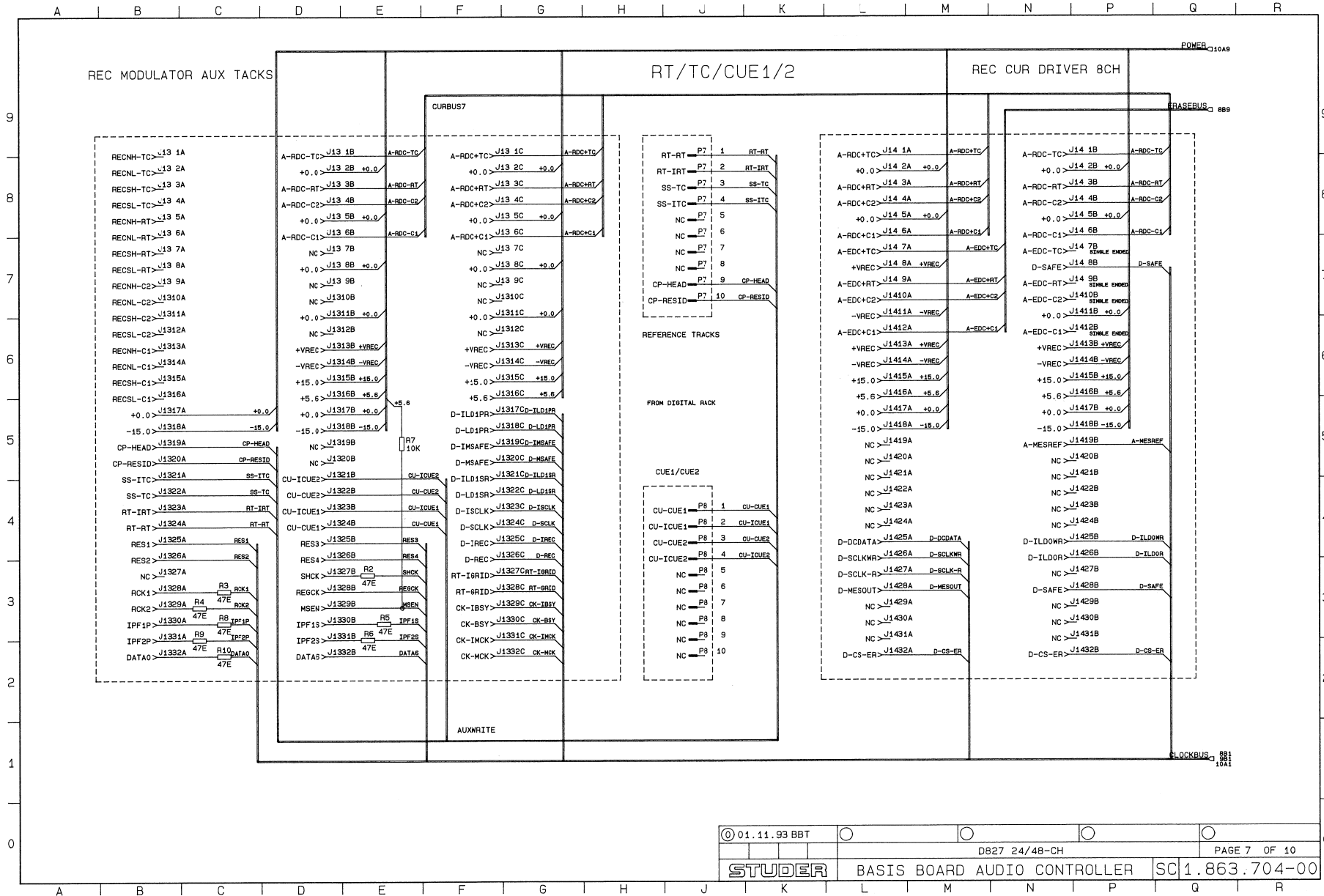
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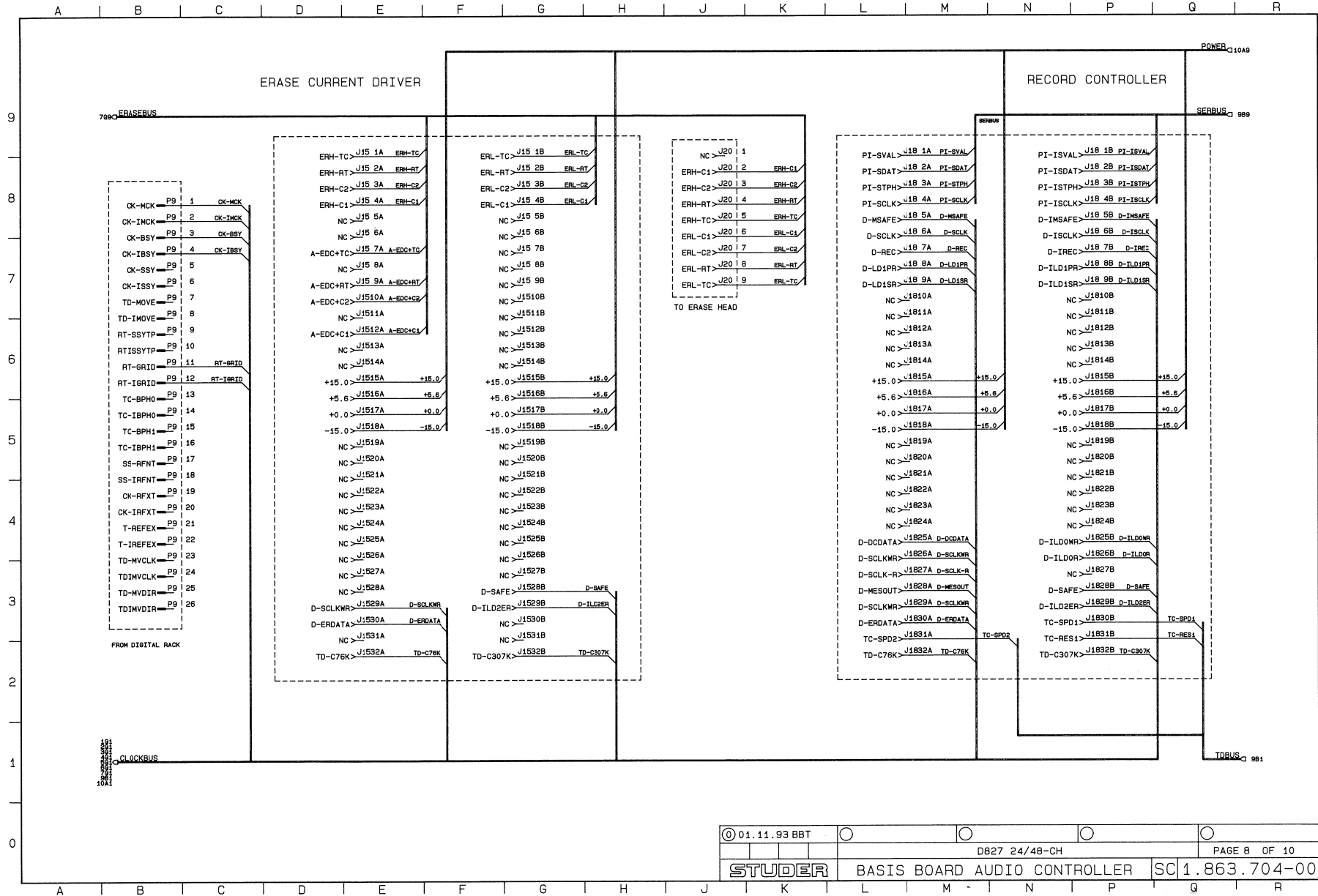
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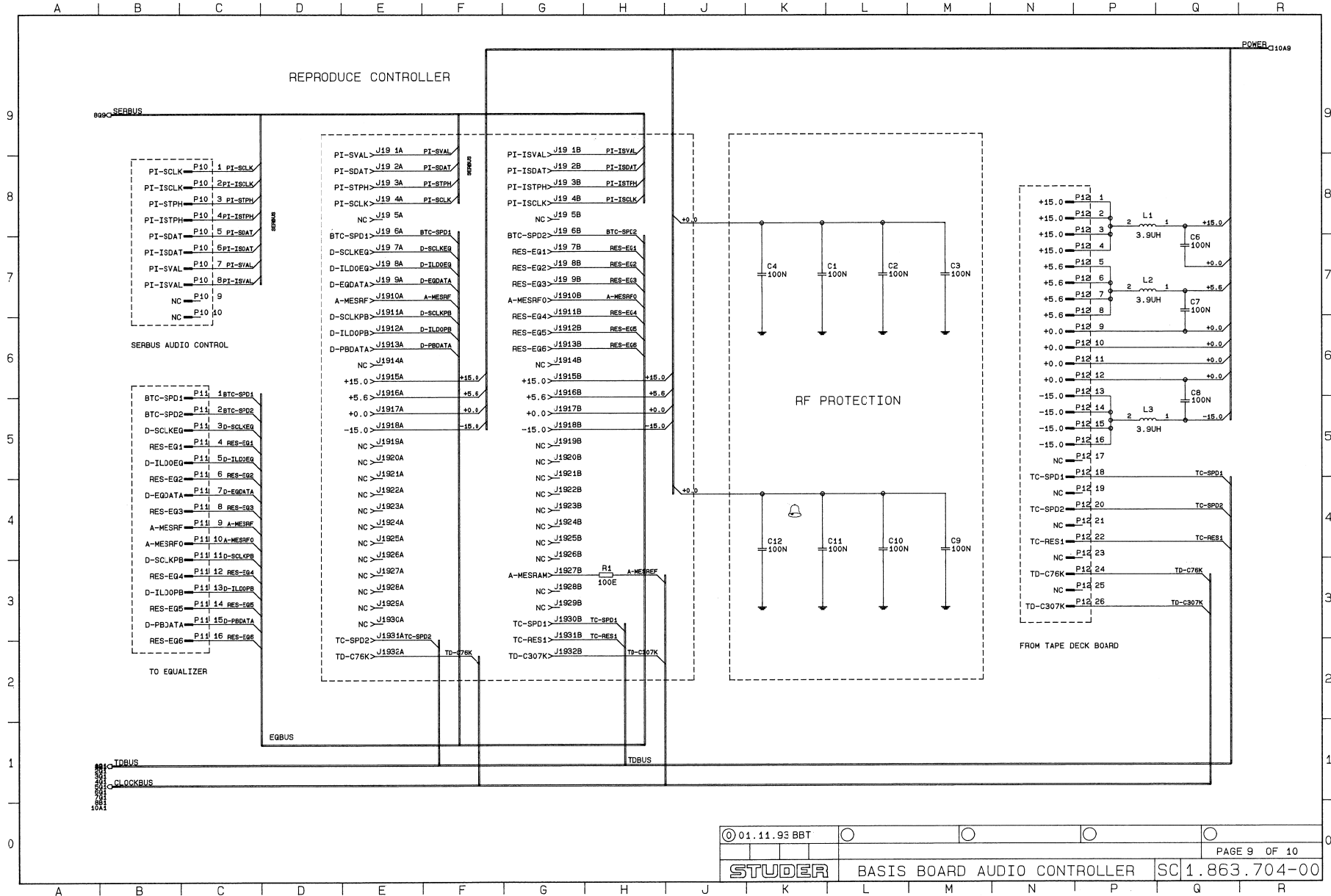
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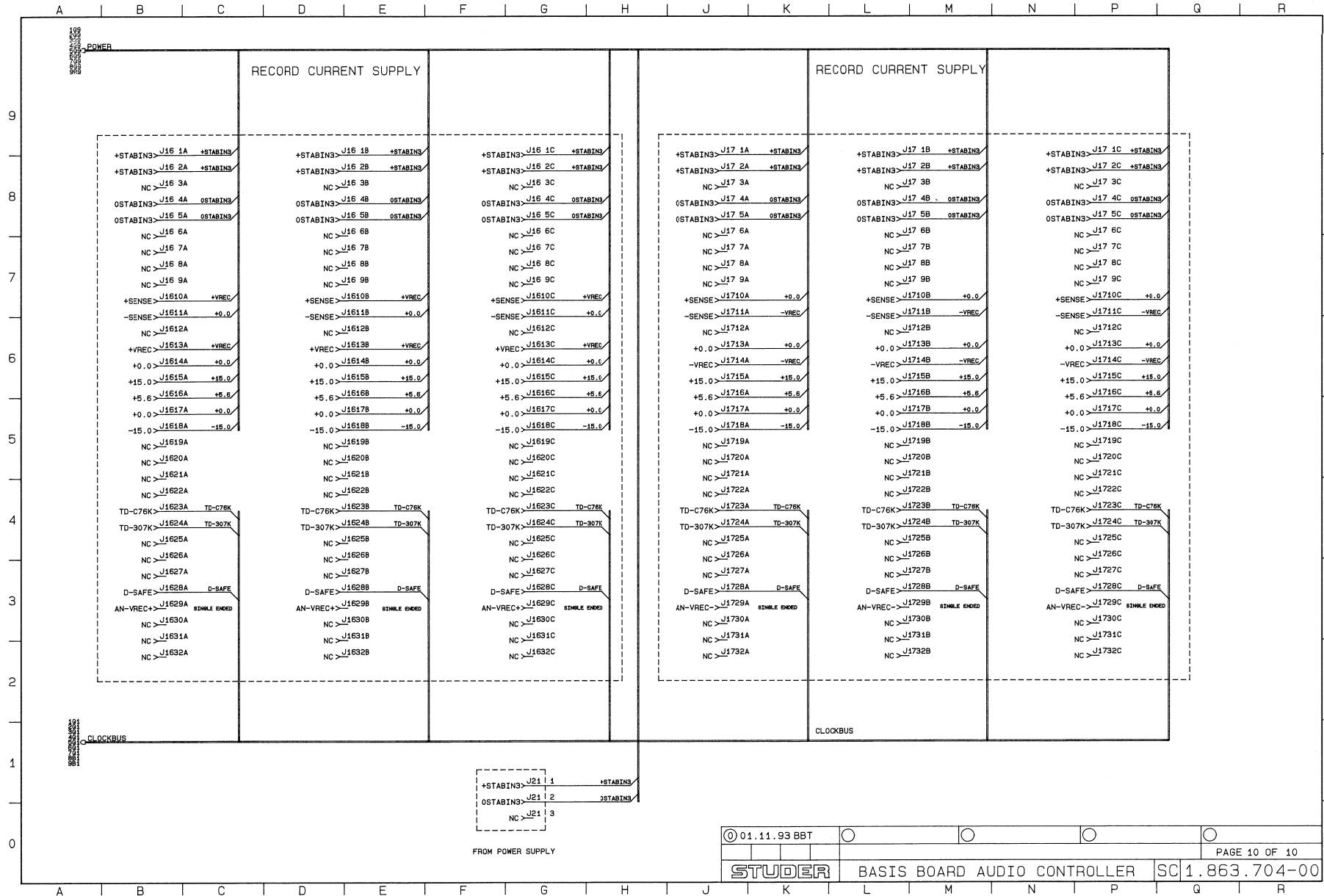
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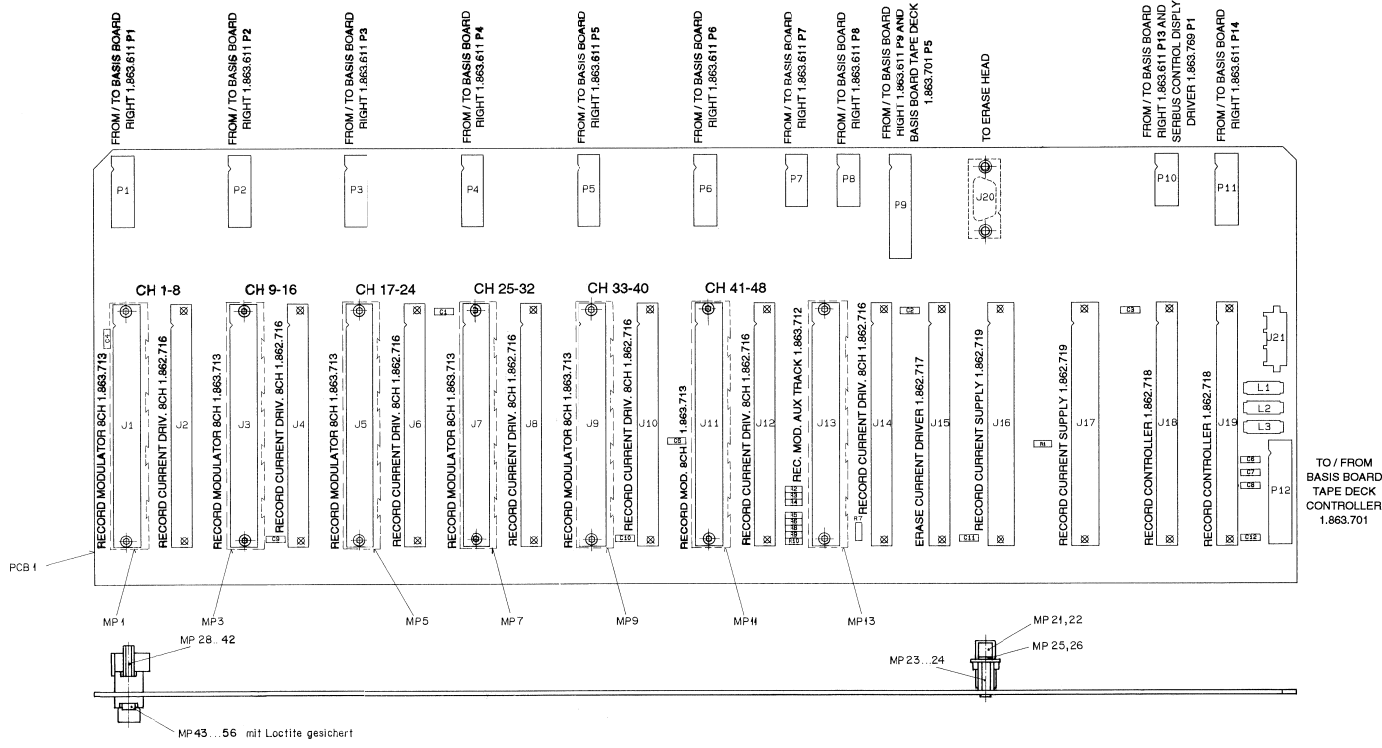
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BASIS BOARD AUDIO CONTROLLER 24 / 48CH 1.863.704.00



BASIS BOARD AUDIO CONTROLLER 24 / 48CH 1.863.704.00



|        |                              |    |              |
|--------|------------------------------|----|--------------|
| STUDER | BASIS BOARD AUDIO CONTROLLER | PB | 1.863.704-00 |
|--------|------------------------------|----|--------------|

|               |          |      |       |      |
|---------------|----------|------|-------|------|
| IND           | DATUM    | GEZ. | GEPR. | GES. |
|               | 01.11.93 | BBT  |       |      |
| BLATT 1 VON 1 |          |      |       |      |

| Ad     | POS. | REF.No.      | DESCRIPTION                        | MANUFACTURER |
|--------|------|--------------|------------------------------------|--------------|
| J...   | 1    | 54.11.4201   | EURO 3x32 ACTION-PIN, F. HUCKPACK  |              |
| J...   | 2    | 54.11.2102   | EURO 2x32 ACTION-PIN               |              |
| J...   | 3    | 54.11.4201   | EURO 3x32 ACTION-PIN, F. HUCKPACK  |              |
| J...   | 4    | 54.11.2102   | EURO 2x32 ACTION-PIN               |              |
| J...   | 5    | 54.11.4201   | EURO 3x32 ACTION-PIN, F. HUCKPACK  |              |
| J...   | 6    | 54.11.2102   | EURO 2x32 ACTION-PIN               |              |
| J...   | 7    | 54.11.4201   | EURO 3x32 ACTION-PIN, F. HUCKPACK  |              |
| J...   | 8    | 54.11.2102   | EURO 2x32 ACTION-PIN               |              |
| J...   | 9    | 54.11.4201   | EURO 3x32 ACTION-PIN, F. HUCKPACK  |              |
| J...   | 10   | 54.11.2102   | EURO 2x32 ACTION-PIN               |              |
| J...   | 11   | 54.11.4201   | EURO 3x32 ACTION-PIN, F. HUCKPACK  |              |
| J...   | 12   | 54.11.2102   | EURO 2x32 ACTION-PIN               |              |
| J...   | 13   | 54.11.4201   | EURO 3x32 ACTION-PIN, F. HUCKPACK  |              |
| J...   | 14   | 54.11.2102   | EURO 2x32 ACTION-PIN               |              |
| J...   | 15   | 54.11.2102   | EURO 2x32 ACTION-PIN               |              |
| J...   | 16   | 54.11.2011   | EURO 3x32 ACTION-PIN               |              |
| J...   | 17   | 54.11.2011   | EURO 3x32 ACTION-PIN               |              |
| J...   | 18   | 54.11.2102   | EURO 2x32 ACTION-PIN               |              |
| J...   | 19   | 54.11.2102   | EURO 2x32 ACTION-PIN               |              |
| J...   | 20   | 54.13.0021   | STR., FEN., J-D-TYPE               |              |
| J...   | 21   | 54.25.0003   | 3-P 12A, FEN., J-MP, VERTICAL      |              |
| MP...  | 1    | 54.11.4202   | EURO 3x32 STIFTWANNE               |              |
| MP...  | 3    | 54.11.4202   | EURO 3x32 STIFTWANNE               |              |
| MP...  | 5    | 54.11.4202   | EURO 3x32 STIFTWANNE               |              |
| MP...  | 7    | 54.11.4202   | EURO 3x32 STIFTWANNE               |              |
| MP...  | 9    | 54.11.4202   | EURO 3x32 STIFTWANNE               |              |
| MP...  | 11   | 54.11.4202   | EURO 3x32 STIFTWANNE               |              |
| MP...  | 13   | 54.11.4202   | EURO 3x32 STIFTWANNE               |              |
| MP...  | 21   | 1.010.035.54 | Verriegelungselemente              |              |
| MP...  | 22   | 1.010.035.54 | Verriegelungselemente              |              |
| MP...  | 23   | 1.862.819.02 | Nietmutter M3*11                   |              |
| MP...  | 24   | 1.862.819.02 | Nietmutter M3*11                   |              |
| MP...  | 25   | 24.16.1030   | Rippscheibe M3                     |              |
| MP...  | 26   | 24.16.1030   | Rippscheibe M3                     |              |
| MP...  | 27   | 1.863.704.01 | Wp. Ekt. Leiter                    |              |
| MP...  | 28   | 1.010.209.27 | Mutterbolzen M2,5*11,5             |              |
| MP...  | 29   | 1.010.209.27 | Mutterbolzen M2,5*11,5             |              |
| MP...  | 30   | 1.010.209.27 | Mutterbolzen M2,5*11,5             |              |
| MP...  | 31   | 1.010.209.27 | Mutterbolzen M2,5*11,5             |              |
| MP...  | 32   | 1.010.209.27 | Mutterbolzen M2,5*11,5             |              |
| MP...  | 33   | 1.010.209.27 | Mutterbolzen M2,5*11,5             |              |
| MP...  | 34   | 1.010.209.27 | Mutterbolzen M2,5*11,5             |              |
| MP...  | 35   | 1.010.209.27 | Mutterbolzen M2,5*11,5             |              |
| MP...  | 37   | 1.010.209.27 | Mutterbolzen M2,5*11,5             |              |
| MP...  | 38   | 1.010.209.27 | Mutterbolzen M2,5*11,5             |              |
| MP...  | 39   | 1.010.209.27 | Mutterbolzen M2,5*11,5             |              |
| MP...  | 40   | 1.010.209.27 | Mutterbolzen M2,5*11,5             |              |
| MP...  | 41   | 1.010.209.27 | Mutterbolzen M2,5*11,5             |              |
| MP...  | 42   | 1.010.209.27 | Mutterbolzen M2,5*11,5             |              |
| MP...  | 43   | 21.53.0284   | IS-Schraube M2,5*16                |              |
| MP...  | 44   | 21.53.0284   | IS-Schraube M2,5*16                |              |
| MP...  | 45   | 21.53.0284   | IS-Schraube M2,5*16                |              |
| MP...  | 46   | 21.53.0284   | IS-Schraube M2,5*16                |              |
| MP...  | 47   | 21.53.0284   | IS-Schraube M2,5*16                |              |
| MP...  | 48   | 21.53.0284   | IS-Schraube M2,5*16                |              |
| MP...  | 49   | 21.53.0284   | IS-Schraube M2,5*16                |              |
| MP...  | 50   | 21.53.0284   | IS-Schraube M2,5*16                |              |
| MP...  | 51   | 21.53.0284   | IS-Schraube M2,5*16                |              |
| MP...  | 52   | 21.53.0284   | IS-Schraube M2,5*16                |              |
| MP...  | 53   | 21.53.0284   | IS-Schraube M2,5*16                |              |
| MP...  | 54   | 21.53.0284   | IS-Schraube M2,5*16                |              |
| MP...  | 55   | 21.53.0284   | IS-Schraube M2,5*16                |              |
| MP...  | 56   | 21.53.0284   | IS-Schraube M2,5*16                |              |
| L...   | 1    | 62.99.0111   | 3.9uH COIL                         |              |
| L...   | 2    | 62.99.0111   | 3.9uH COIL                         |              |
| L...   | 3    | 62.99.0111   | 3.9uH COIL                         |              |
| P...   | 1    | 54.14.4016   | 16-P STR., MALE, RIBBON-CABLE-PLUG |              |
| P...   | 2    | 54.14.4016   | 16-P STR., MALE, RIBBON-CABLE-PLUG |              |
| P...   | 3    | 54.14.4016   | 16-P STR., MALE, RIBBON-CABLE-PLUG |              |
| P...   | 4    | 54.14.4016   | 16-P STR., MALE, RIBBON-CABLE-PLUG |              |
| P...   | 5    | 54.14.4016   | 16-P STR., MALE, RIBBON-CABLE-PLUG |              |
| P...   | 6    | 54.14.4016   | 16-P STR., MALE, RIBBON-CABLE-PLUG |              |
| P...   | 7    | 54.14.4010   | 10-P STR., MALE, RIBBON-CABLE-PLUG |              |
| P...   | 8    | 54.14.4010   | 10-P STR., MALE, RIBBON-CABLE-PLUG |              |
| P...   | 9    | 54.14.4025   | 28-P STR., MALE, RIBBON-CABLE-PLUG |              |
| P...   | 10   | 54.14.4010   | 10-P STR., MALE, RIBBON-CABLE-PLUG |              |
| P...   | 11   | 54.14.4016   | 16-P STR., MALE, RIBBON-CABLE-PLUG |              |
| P...   | 12   | 54.14.4026   | 28-P STR., MALE, RIBBON-CABLE-PLUG |              |
| PCB... | 1    | 1.863.704.11 | Empty PCB                          |              |
| R...   | 1    | 57.11.3101   | 100E 5 %, 0.6W, MF                 |              |
| R...   | 2    | 57.11.3470   | 47E 5 %, 0.6W, MF                  |              |
| R...   | 3    | 57.11.3470   | 47E 5 %, 0.6W, MF                  |              |
| R...   | 4    | 57.11.3470   | 47E 5 %, 0.6W, MF                  |              |
| R...   | 5    | 57.11.3470   | 47E 5 %, 0.6W, MF                  |              |
| R...   | 6    | 57.11.3470   | 47E 5 %, 0.6W, MF                  |              |
| R...   | 7    | 57.11.3103   | 10K 5 %, 0.6W, MF                  |              |
| R...   | 8    | 57.11.3470   | 47E 5 %, 0.6W, MF                  |              |
| R...   | 9    | 57.11.3470   | 47E 5 %, 0.6W, MF                  |              |
| R...   | 10   | 57.11.3470   | 47E 5 %, 0.6W, MF                  |              |

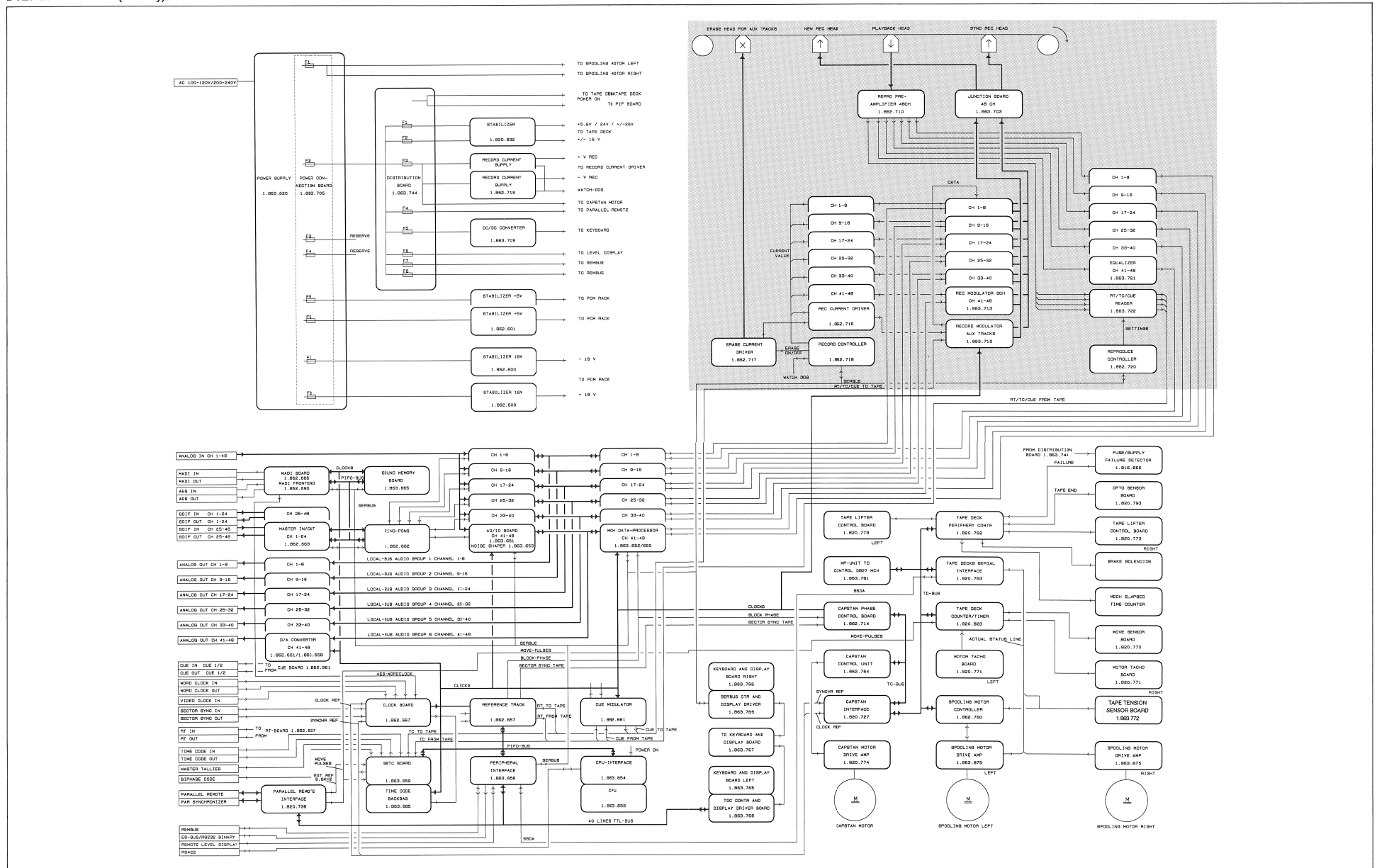
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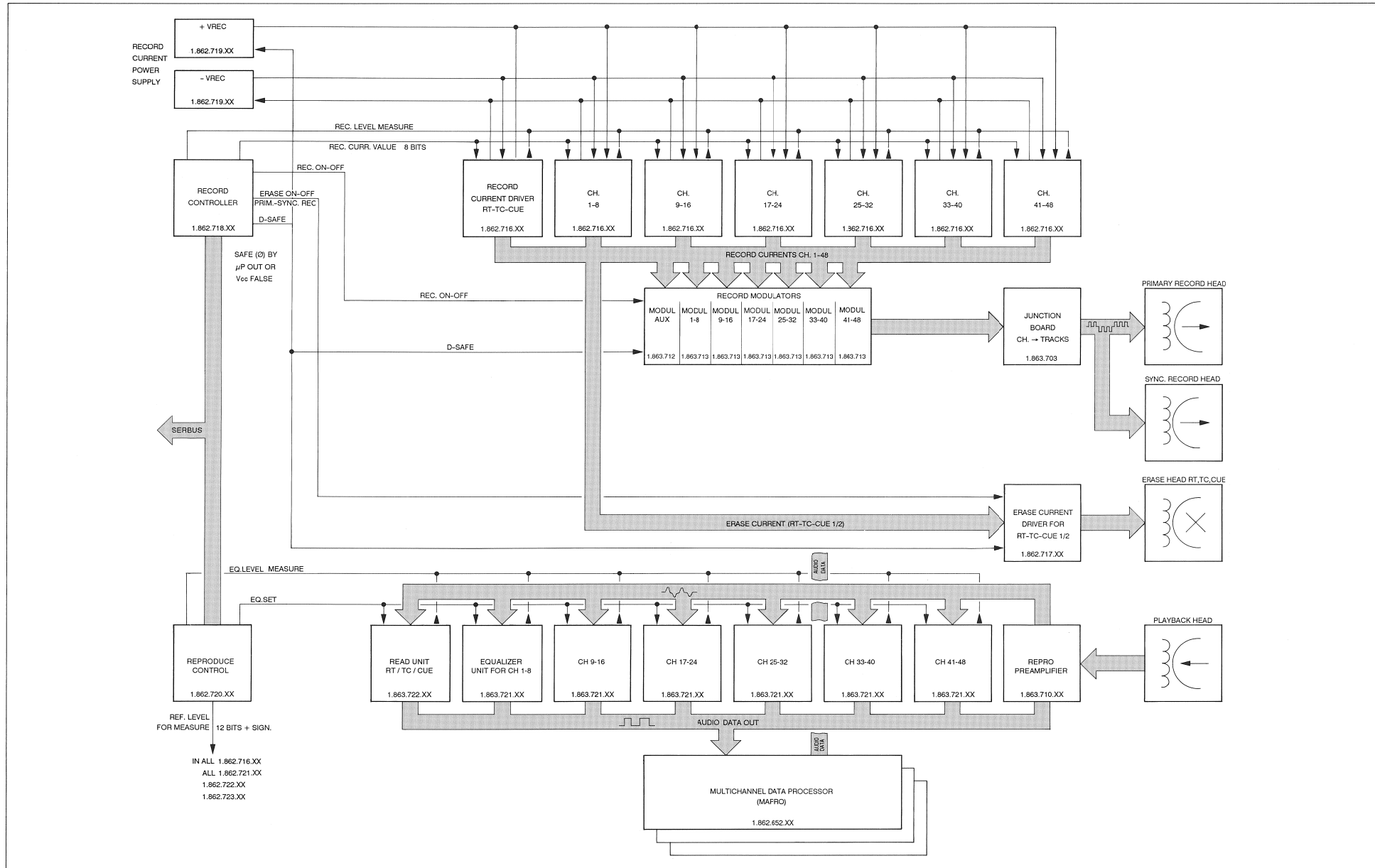
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| Record Modulator Aux Tracks ..... 1.863.712.21 .....                      | 2/59 |
| Record Modulator Block Diagram ..... 1.863.713 .....                      | 2/63 |
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BLOCK DIAGRAM  
D827 MCH Control (Survey)

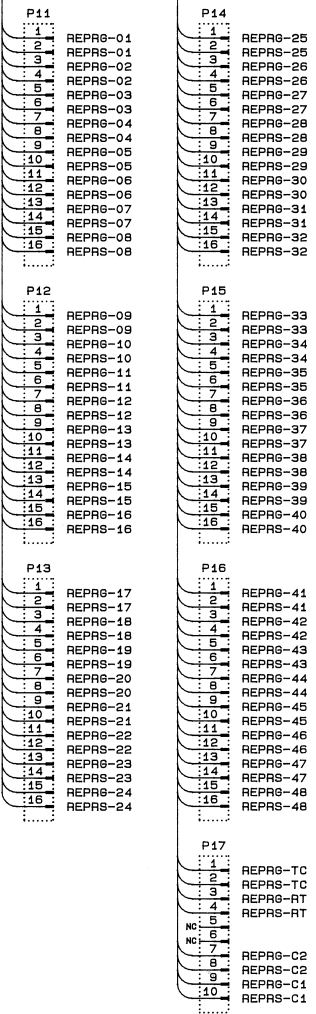
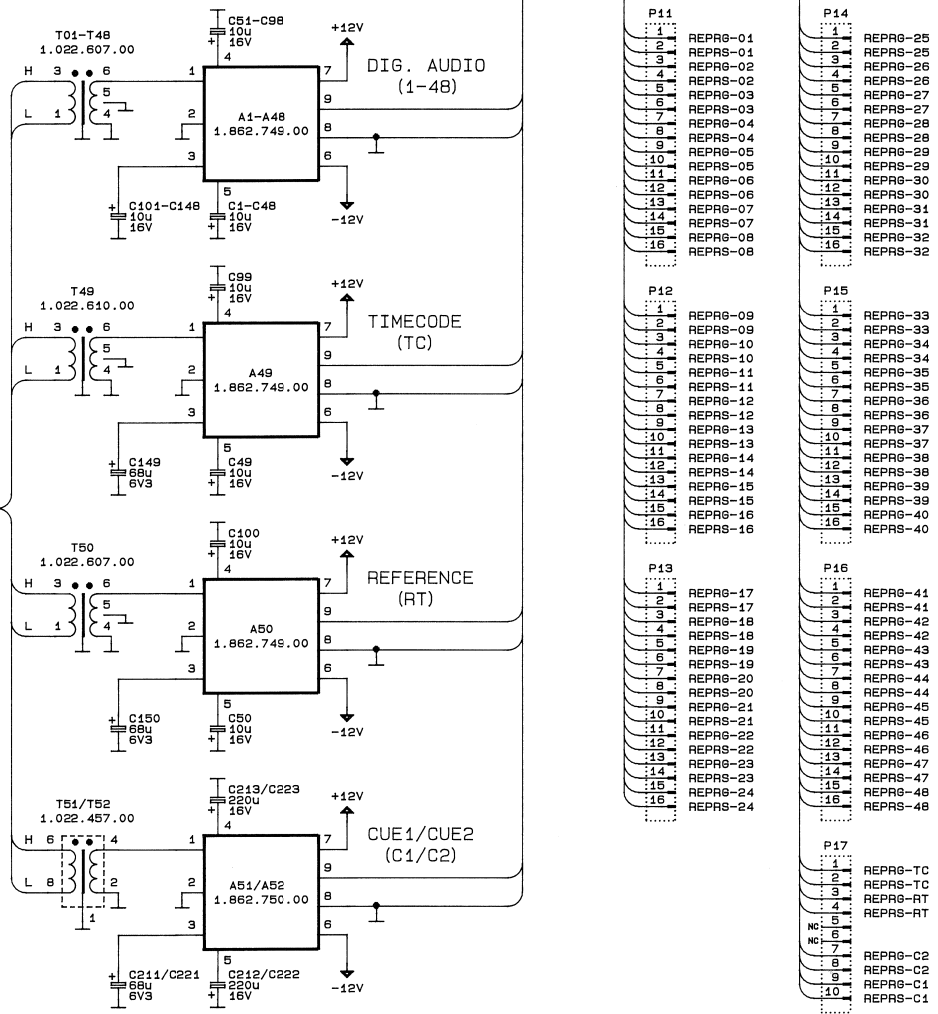
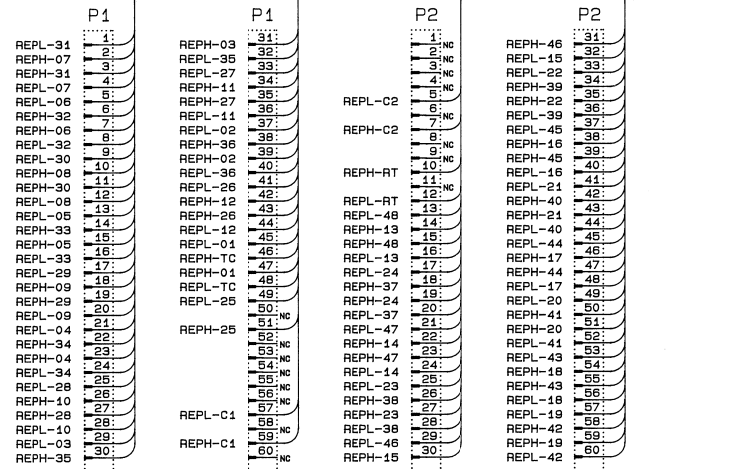
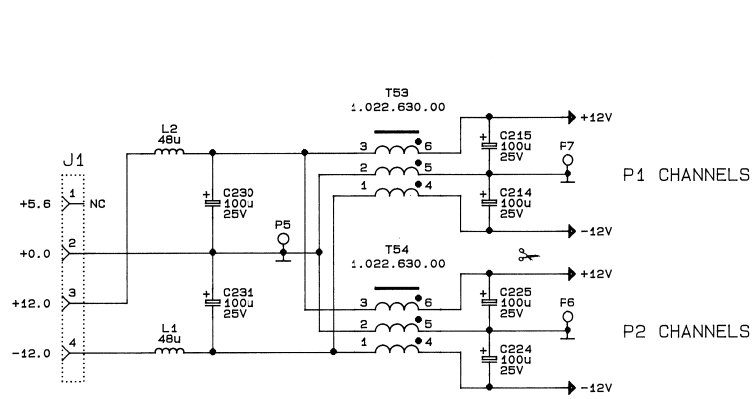


**BLOCK DIAGRAM**  
Headelectronics



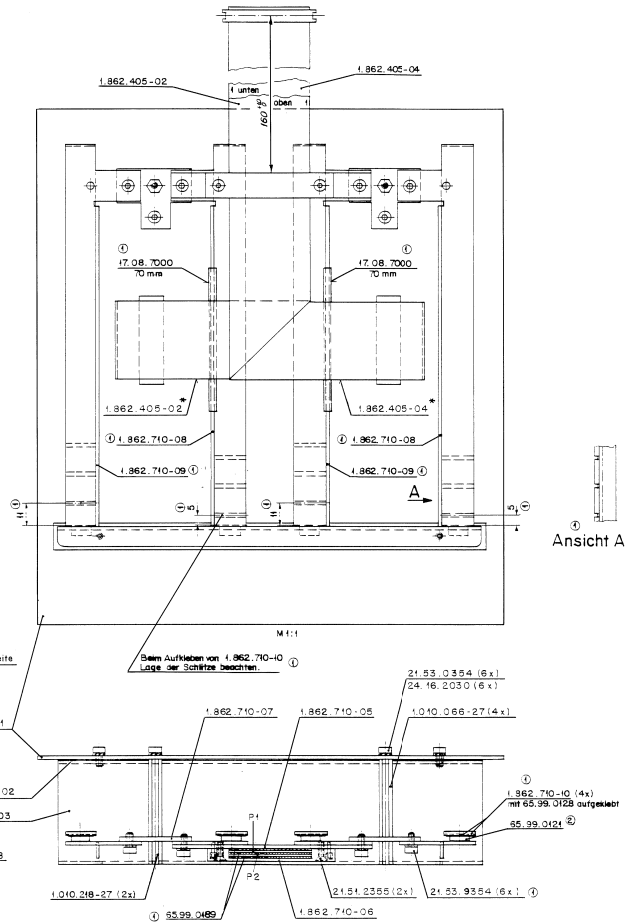
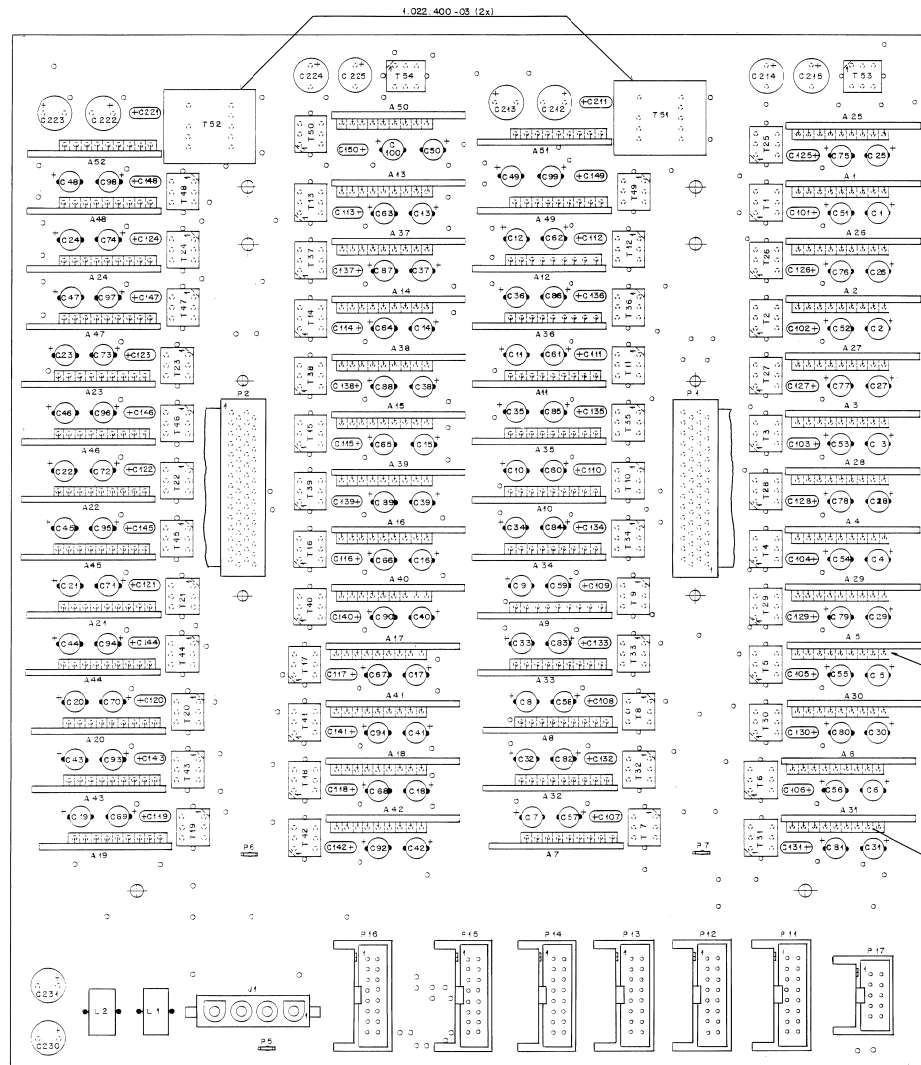


REPRO PREAMPLIFIER 48CH 1.862.710.00



|               |                          |                 |
|---------------|--------------------------|-----------------|
| 08.10.89 ZB   | D827 MCH                 | PAGE 1 OF 1     |
| <b>STUDER</b> | REPRO PREAMPLIFIER 48 CH | SC 1.862.710.00 |

REPRO PREAMPLIFIER 48CH 1.862.710.00



- FROM  
PREAMPLIFIER  
POWER SUPPLY  
1.862.743
- TO BASIS BOARD  
LEFT 1.863.610 P6
- TO BASIS BOARD  
LEFT 1.863.610 P5
- TO BASIS BOARD  
LEFT 1.863.610 P4
- TO BASIS BOARD  
LEFT 1.863.610 P3
- TO BASIS BOARD  
LEFT 1.863.610 P2
- TO BASIS BOARD  
LEFT 1.863.610 P1
- TO BASIS BOARD  
LEFT 1.863.610 P7

|           |                    |
|-----------|--------------------|
| STÜCKER   | REPRO PREAMPLIFIER |
| HOBBENPDR | 48 CH              |
| ZÜRICH    | ESE                |
| Revizoren | 1.862.710-00       |

|           |         |   |   |   |   |   |   |   |   |
|-----------|---------|---|---|---|---|---|---|---|---|
| Revizoren | 27.5.94 | W | W | W | W | W | W | W | W |
| Datum     | 14.9.89 | W | W | W | W | W | W | W | W |
| Legende   | 9.5.89  | W | W | W | W | W | W | W | W |
| Legende   |         | W | W | W | W | W | W | W | W |



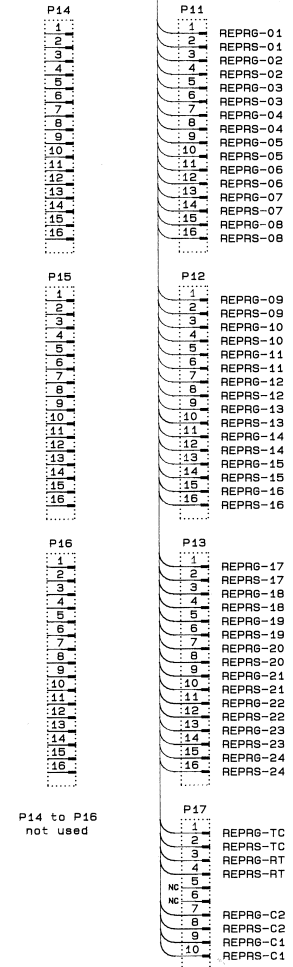
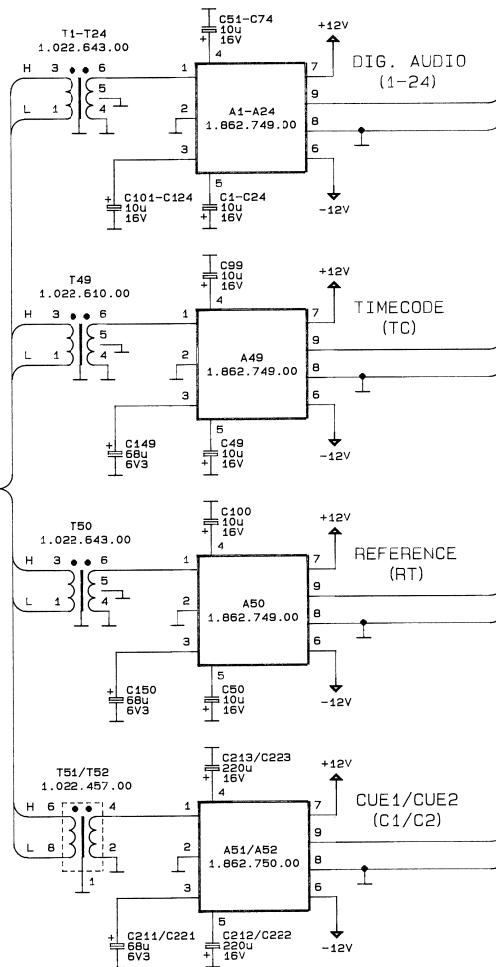
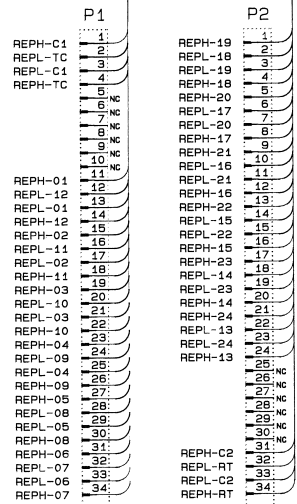
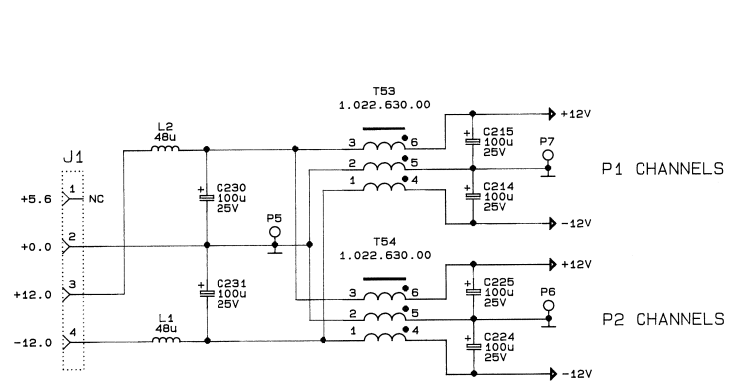


REPRO PREAMPLIFIER 48CH 1.862.710.00

| Ad        | ..POS.. | ..REF.No...  | DESCRIPTION.....                         | MANUFACTURER | Ad   | ..POS..  | ..REF.No... | DESCRIPTION.....  | MANUFACTURER                           |
|-----------|---------|--------------|--|--------------|------|----------|-------------|---|--|
| C...      | 145     | 59.26.2100   | 10uF -20%, 6.3V, SAL                     | Ph           | (01) | 14.09.89 |             | Connectors P11 to P17 with retaining latches.             |  |
| C...      | 146     | 59.26.2100   | 10uF -20%, 6.3V, SAL                     | Ph           |      |          |             | EL=Electrolytic, PETP=Polyesterfilm, SAL=Solid Aluminium. |  |
| C...      | 147     | 59.26.2100   | 10uF -20%, 6.3V, SAL                     | Ph           |      |          |             | MANUFACTURER: AMP=AMP Incorporated, Ph=Philips, St=Studer |  |
| C...      | 148     | 59.26.2100   | 10uF -20%, 6.3V, SAL                     | Ph           |      |          |             | 1.862.710.00  | REPRO PREAMPLIFIER 48 CH ZB 89/05/0900 |
| C...      | 149     | 59.26.0680   | 68uF -20%, 6.3V, SAL                     | Ph           |      |          |             | 1.862.710.00  | REPRO PREAMPLIFIER 48 CH ZB 89/09/1401 |
| C...      | 150     | 59.26.0680   | 68uF -20%, 6.3V, SAL                     | Ph           |      |          |             | END   |  |
| C...      | 211     | 59.26.0680   | 68uF -20%, 6.3V, SAL                     | Ph           |      |          |             |   |  |
| C...      | 212     | 59.22.4221   | 220uF -20%, 16V, EL                      |              |      |          |             |   |  |
| C...      | 213     | 59.22.4221   | 220uF -20%, 16V, EL                      |              |      |          |             |   |  |
| C...      | 214     | 59.22.5101   | 100uF -20%, 25V, EL                      |              |      |          |             |   |  |
| C...      | 215     | 59.22.5101   | 100uF -20%, 25V, EL                      |              |      |          |             |   |  |
| C...      | 221     | 59.26.0680   | 68uF -20%, 6.3V, SAL                     | Ph           |      |          |             |   |  |
| C...      | 222     | 59.22.4221   | 220uF -20%, 16V, EL                      |              |      |          |             |   |  |
| C...      | 223     | 59.22.4221   | 220uF -20%, 16V, EL                      |              |      |          |             |   |  |
| C...      | 224     | 59.22.5101   | 100uF -20%, 25V, EL                      |              |      |          |             |   |  |
| C...      | 225     | 59.22.5101   | 100uF -20%, 25V, EL                      |              |      |          |             |   |  |
| C...      | 230     | 59.22.5101   | 100uF -20%, 25V, EL                      |              |      |          |             |   |  |
| C...      | 231     | 59.22.5101   | 100uF -20%, 25V, EL                      |              |      |          |             |   |  |
| J.....    | 1       | 54.25.0004   | Connector 4 contacts                     | AMP          |      |          |             |   |  |
| L.....    | 1       | 62.03.0010   | 48 uH 2 A, Tokin nr. SN - 5 - 400        |              |      |          |             |   |  |
| L.....    | 2       | 62.03.0010   | 48 uH 2 A, Tokin nr. SN - 5 - 400        |              |      |          |             |   |  |
| P.....    | 1       | 1.862.405.04 | Connection cable                         | St           |      |          |             |   |  |
| P.....    | 2       | 1.862.405.02 | Connection cable                         | St           |      |          |             |   |  |
| P.....    | 5       | 54.02.0320   | Faston connector, 2.8*0.8, straight      |              |      |          |             |   |  |
| P.....    | 6       | 54.02.0320   | Faston connector, 2.8*0.8, straight      |              |      |          |             |   |  |
| P.....    | 7       | 54.02.0320   | Faston connector, 2.8*0.8, straight      |              |      |          |             |   |  |
| 01 P..... | 11      | 54.14.2002   | Connector 16 contacts, flat cable        |              |      |          |             |   |  |
| P.....    | 11      | 54.14.2102   | Connector 16 contacts, latch, flat cable |              |      |          |             |   |  |
| P.....    | 12      | 54.14.2002   | Connector 16 contacts, flat cable        |              |      |          |             |   |  |
| 01 P..... | 12      | 54.14.2102   | Connector 16 contacts, latch, flat cable |              |      |          |             |   |  |
| P.....    | 13      | 54.14.2002   | Connector 16 contacts, flat cable        |              |      |          |             |   |  |
| 01 P..... | 13      | 54.14.2102   | Connector 16 contacts, latch, flat cable |              |      |          |             |   |  |
| P.....    | 14      | 54.14.2002   | Connector 16 contacts, flat cable        |              |      |          |             |   |  |
| 01 P..... | 14      | 54.14.2102   | Connector 16 contacts, latch, flat cable |              |      |          |             |   |  |
| P.....    | 15      | 54.14.2002   | Connector 16 contacts, flat cable        |              |      |          |             |   |  |
| 01 P..... | 15      | 54.14.2102   | Connector 16 contacts, latch, flat cable |              |      |          |             |   |  |
| P.....    | 16      | 54.14.2002   | Connector 16 contacts, flat cable        |              |      |          |             |   |  |
| 01 P..... | 16      | 54.14.2102   | Connector 16 contacts, latch, flat cable |              |      |          |             |   |  |
| P.....    | 17      | 54.14.2001   | Connector 10 contacts, flat cable        |              |      |          |             |   |  |
| 01 P..... | 17      | 54.14.2101   | Connector 10 contacts, latch, flat cable |              |      |          |             |   |  |
| T.....    | 1       | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 2       | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 3       | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 4       | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 5       | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 6       | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 7       | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 8       | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 9       | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 10      | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 11      | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 12      | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 13      | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 14      | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 15      | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 16      | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 17      | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 18      | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 19      | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 20      | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 21      | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 22      | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 23      | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 24      | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 25      | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 26      | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 27      | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 28      | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 29      | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 30      | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 31      | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 32      | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 33      | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 34      | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 35      | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 36      | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 37      | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 38      | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 39      | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 40      | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 41      | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 42      | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 43      | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 44      | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 45      | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 46      | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 47      | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 48      | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 49      | 1.022.610.00 | Head Transformer Time Code               | St           |      |          |             |   |  |
| T.....    | 50      | 1.022.607.00 | Head Transformer Audio Data              | St           |      |          |             |   |  |
| T.....    | 51      | 1.022.457.00 | Head Transformer Cue Track               | St           |      |          |             |   |  |
| T.....    | 52      | 1.022.457.00 | Head Transformer Cue Track               | St           |      |          |             |   |  |
| T.....    | 53      | 1.022.630.00 | Common Mode Choke                        | St           |      |          |             |   |  |
| T.....    | 54      | 1.022.630.00 | Common Mode Choke                        | St           |      |          |             |   |  |



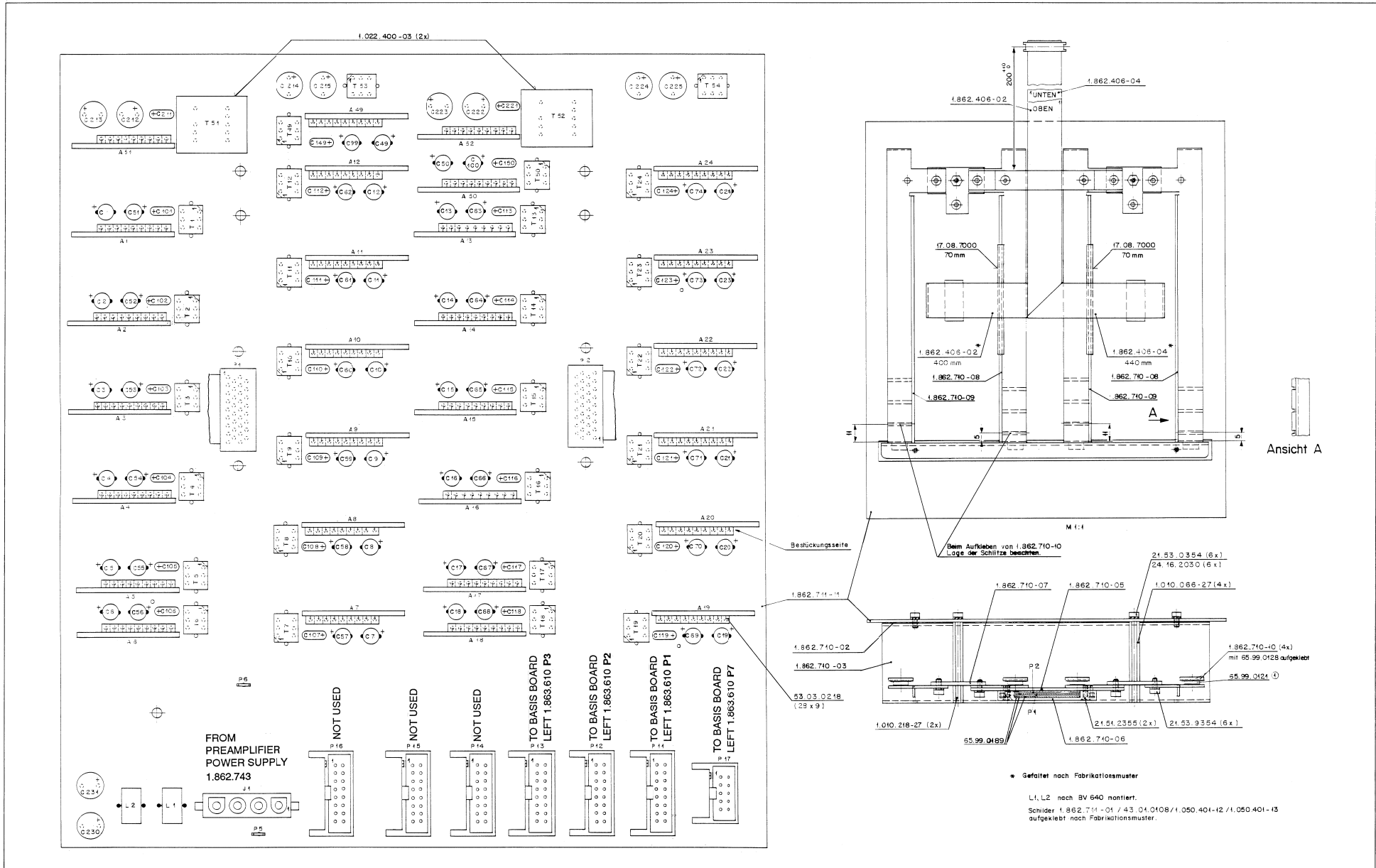
REPRO PREAMPLIFIER 24CH 1.862.711.00



|               |                          |                 |
|---------------|--------------------------|-----------------|
| © 24.10.89 ZB | D827 MCH                 | PAGE 1 OF 1     |
| STUDER        | REPRO PREAMPLIFIER 24 CH | SC 1.862.711-00 |



REPRO PREAMPLIFIER 24CH 1.862.711.00





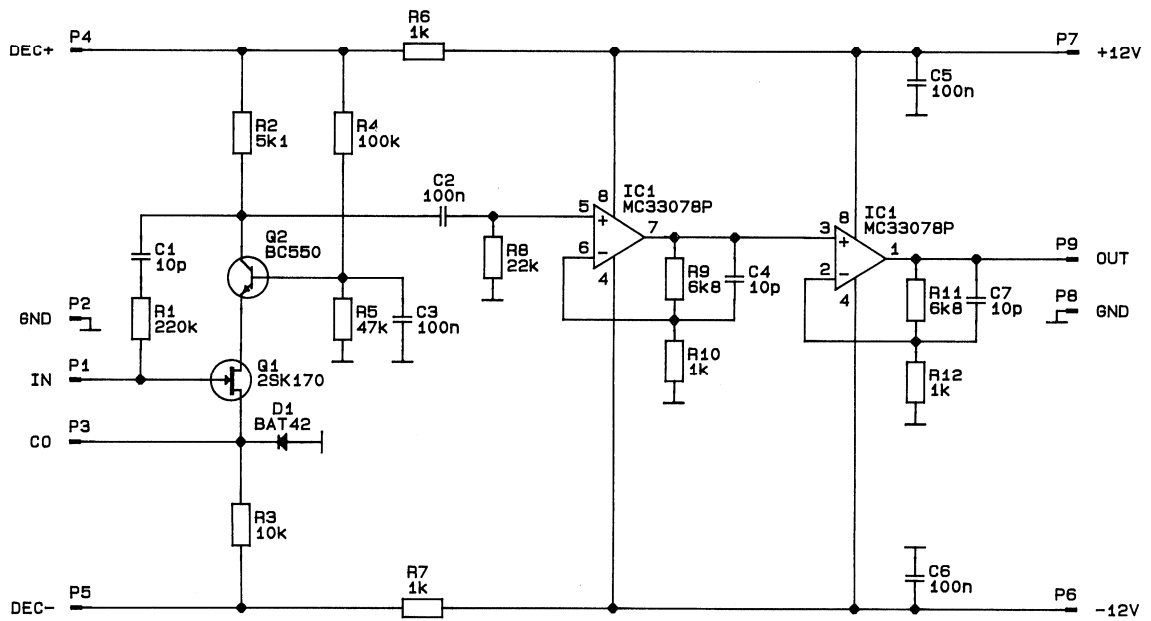
REPRO PREAMPLIFIER 24CH 1.862.711.00

| Ad       | POS. | REF.No.      | DESCRIPTION            | MANUFACTURER | Ad      | POS. | REF.No.      | DESCRIPTION                         | MANUFACTURER |
|----------|------|--------------|------------------------|--------------|---------|------|--------------|-------------------------------------|--------------|
| A.....1  |      | 1.862.749.00 | PREAMPLIFIER PCM, 1 CH | St           | C...113 |      | 59.26.2100   | 10uF -20%, 6.3V, SAL                | Ph           |
| A.....2  |      | 1.862.749.00 | PREAMPLIFIER PCM, 1 CH | St           | C...114 |      | 59.26.2100   | 10uF -20%, 6.3V, SAL                | Ph           |
| A.....3  |      | 1.862.749.00 | PREAMPLIFIER PCM, 1 CH | St           | C...115 |      | 59.26.2100   | 10uF -20%, 6.3V, SAL                | Ph           |
| A.....4  |      | 1.862.749.00 | PREAMPLIFIER PCM, 1 CH | St           | C...116 |      | 59.26.2100   | 10uF -20%, 6.3V, SAL                | Ph           |
| A.....5  |      | 1.862.749.00 | PREAMPLIFIER PCM, 1 CH | St           | C...117 |      | 59.26.2100   | 10uF -20%, 6.3V, SAL                | Ph           |
| A.....6  |      | 1.862.749.00 | PREAMPLIFIER PCM, 1 CH | St           | C...118 |      | 59.26.2100   | 10uF -20%, 6.3V, SAL                | Ph           |
| A.....7  |      | 1.862.749.00 | PREAMPLIFIER PCM, 1 CH | St           | C...119 |      | 59.26.2100   | 10uF -20%, 6.3V, SAL                | Ph           |
| A.....8  |      | 1.862.749.00 | PREAMPLIFIER PCM, 1 CH | St           | C...120 |      | 59.26.2100   | 10uF -20%, 6.3V, SAL                | Ph           |
| A.....9  |      | 1.862.749.00 | PREAMPLIFIER PCM, 1 CH | St           | C...121 |      | 59.26.2100   | 10uF -20%, 6.3V, SAL                | Ph           |
| A.....10 |      | 1.862.749.00 | PREAMPLIFIER PCM, 1 CH | St           | C...122 |      | 59.26.2100   | 10uF -20%, 6.3V, SAL                | Ph           |
| A.....11 |      | 1.862.749.00 | PREAMPLIFIER PCM, 1 CH | St           | C...123 |      | 59.26.2100   | 10uF -20%, 6.3V, SAL                | Ph           |
| A.....12 |      | 1.862.749.00 | PREAMPLIFIER PCM, 1 CH | St           | C...124 |      | 59.26.2100   | 10uF -20%, 6.3V, SAL                | Ph           |
| A.....13 |      | 1.862.749.00 | PREAMPLIFIER PCM, 1 CH | St           | C...149 |      | 59.26.0680   | 68uF -20%, 6.3V, SAL                | Ph           |
| A.....14 |      | 1.862.749.00 | PREAMPLIFIER PCM, 1 CH | St           | C...150 |      | 59.26.0680   | 68uF -20%, 6.3V, SAL                | Ph           |
| A.....15 |      | 1.862.749.00 | PREAMPLIFIER PCM, 1 CH | St           | C...211 |      | 59.26.0680   | 68uF -20%, 6.3V, SAL                | Ph           |
| A.....16 |      | 1.862.749.00 | PREAMPLIFIER PCM, 1 CH | St           | C...212 |      | 59.22.4221   | 220uF -20%, 16V, EL                 | Ph           |
| A.....17 |      | 1.862.749.00 | PREAMPLIFIER PCM, 1 CH | St           | C...213 |      | 59.22.4221   | 220uF -20%, 16V, EL                 | Ph           |
| A.....18 |      | 1.862.749.00 | PREAMPLIFIER PCM, 1 CH | St           | C...214 |      | 59.22.5101   | 100uF -20%, 25V, EL                 | Ph           |
| A.....19 |      | 1.862.749.00 | PREAMPLIFIER PCM, 1 CH | St           | C...215 |      | 59.22.5101   | 100uF -20%, 25V, EL                 | Ph           |
| A.....20 |      | 1.862.749.00 | PREAMPLIFIER PCM, 1 CH | St           | C...221 |      | 59.26.0680   | 68uF -20%, 6.3V, SAL                | Ph           |
| A.....21 |      | 1.862.749.00 | PREAMPLIFIER PCM, 1 CH | St           | C...222 |      | 59.22.4221   | 220uF -20%, 16V, EL                 | Ph           |
| A.....22 |      | 1.862.749.00 | PREAMPLIFIER PCM, 1 CH | St           | C...223 |      | 59.22.4221   | 220uF -20%, 16V, EL                 | Ph           |
| A.....23 |      | 1.862.749.00 | PREAMPLIFIER PCM, 1 CH | St           | C...224 |      | 59.22.5101   | 100uF -20%, 25V, EL                 | Ph           |
| A.....24 |      | 1.862.749.00 | PREAMPLIFIER PCM, 1 CH | St           | C...225 |      | 59.22.5101   | 100uF -20%, 25V, EL                 | Ph           |
| A....49  |      | 1.862.749.00 | PREAMPLIFIER PCM, 1 CH | St           | C...230 |      | 59.22.5101   | 100uF -20%, 25V, EL                 | Ph           |
| A....50  |      | 1.862.749.00 | PREAMPLIFIER PCM, 1 CH | St           | C...231 |      | 59.22.5101   | 100uF -20%, 25V, EL                 | Ph           |
| A...51   |      | 1.862.750.00 | PREAMPLIFIER CUE, 1 CH | St           | J....1  |      | 54.25.0004   | Connector 4 contacts                | AMP          |
| A...52   |      | 1.862.750.00 | PREAMPLIFIER CUE, 1 CH | St           | L....1  |      | 62.03.0010   | 48 uH 2 A, Tokin nr. SN - 5 - 400   | Ph           |
| C....1   |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           | L....2  |      | 62.03.0010   | 48 uH 2 A, Tokin nr. SN - 5 - 400   | Ph           |
| C....2   |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           | P....1  |      | 1.862.406.04 | Connection cable                    | St           |
| C....3   |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           | P....2  |      | 1.862.406.02 | Connection cable                    | St           |
| C....4   |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           | P....5  |      | 54.02.0320   | Faston connector, 2.8*0.8, straight | Ph           |
| C....5   |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           | P....6  |      | 54.02.0320   | Faston connector, 2.8*0.8, straight | Ph           |
| C....6   |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           | P....7  |      | 54.02.0320   | Faston connector, 2.8*0.8, straight | Ph           |
| C....7   |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           | P....11 |      | 54.14.2002   | Connector 16 contacts, flat cable   | Ph           |
| C....8   |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           | P....12 |      | 54.14.2002   | Connector 16 contacts, flat cable   | Ph           |
| C....9   |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           | P....13 |      | 54.14.2002   | Connector 16 contacts, flat cable   | Ph           |
| C....10  |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           | P....14 |      | 54.14.2002   | Connector 16 contacts, flat cable   | Ph           |
| C....11  |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           | P....15 |      | 54.14.2002   | Connector 16 contacts, flat cable   | Ph           |
| C....12  |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           | P....16 |      | 54.14.2002   | Connector 16 contacts, flat cable   | Ph           |
| C....13  |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           | P....17 |      | 54.14.2001   | Connector 10 contacts, flat cable   | Ph           |
| C....14  |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           | T....1  |      | 1.022.643.00 | Head Transformer Audio Data         | St           |
| C....15  |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           | T....2  |      | 1.022.643.00 | Head Transformer Audio Data         | St           |
| C....16  |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           | T....3  |      | 1.022.643.00 | Head Transformer Audio Data         | St           |
| C....17  |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           | T....4  |      | 1.022.643.00 | Head Transformer Audio Data         | St           |
| C....18  |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           | T....5  |      | 1.022.643.00 | Head Transformer Audio Data         | St           |
| C....19  |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           | T....6  |      | 1.022.643.00 | Head Transformer Audio Data         | St           |
| C....20  |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           | T....7  |      | 1.022.643.00 | Head Transformer Audio Data         | St           |
| C....21  |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           | T....8  |      | 1.022.643.00 | Head Transformer Audio Data         | St           |
| C....22  |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           | T....9  |      | 1.022.643.00 | Head Transformer Audio Data         | St           |
| C....23  |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           | T....10 |      | 1.022.643.00 | Head Transformer Audio Data         | St           |
| C....24  |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           | T....11 |      | 1.022.643.00 | Head Transformer Audio Data         | St           |
| C....49  |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           | T....12 |      | 1.022.643.00 | Head Transformer Audio Data         | St           |
| C....50  |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           | T....13 |      | 1.022.643.00 | Head Transformer Audio Data         | St           |
| C....51  |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           | T....14 |      | 1.022.643.00 | Head Transformer Audio Data         | St           |
| C....52  |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           | T....15 |      | 1.022.643.00 | Head Transformer Audio Data         | St           |
| C....53  |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           | T....16 |      | 1.022.643.00 | Head Transformer Audio Data         | St           |
| C....54  |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           | T....17 |      | 1.022.643.00 | Head Transformer Audio Data         | St           |
| C....55  |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           | T....18 |      | 1.022.643.00 | Head Transformer Audio Data         | St           |
| C....56  |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           | T....19 |      | 1.022.643.00 | Head Transformer Audio Data         | St           |
| C....57  |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           | T....20 |      | 1.022.643.00 | Head Transformer Audio Data         | St           |
| C....58  |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           | T....21 |      | 1.022.643.00 | Head Transformer Audio Data         | St           |
| C....59  |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           | T....22 |      | 1.022.643.00 | Head Transformer Audio Data         | St           |
| C....60  |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           | T....23 |      | 1.022.643.00 | Head Transformer Audio Data         | St           |
| C....61  |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           | T....24 |      | 1.022.643.00 | Head Transformer Audio Data         | St           |
| C....62  |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           | T....49 |      | 1.022.610.00 | Head Transformer Time Code          | St           |
| C....63  |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           | T....50 |      | 1.022.643.00 | Head Transformer Audio Data         | St           |
| C....64  |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           | T....51 |      | 1.022.457.00 | Head Transformer Cue Track          | St           |
| C....65  |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           | T....52 |      | 1.022.457.00 | Head Transformer Cue Track          | St           |
| C....66  |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           | T....53 |      | 1.022.630.00 | Common Mode Choke                   | St           |
| C....67  |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           | T....54 |      | 1.022.630.00 | Common Mode Choke                   | St           |
| C....68  |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           |         |      |              |                                     |              |
| C....69  |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           |         |      |              |                                     |              |
| C....70  |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           |         |      |              |                                     |              |
| C....71  |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           |         |      |              |                                     |              |
| C....72  |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           |         |      |              |                                     |              |
| C....73  |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           |         |      |              |                                     |              |
| C....74  |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           |         |      |              |                                     |              |
| C....99  |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           |         |      |              |                                     |              |
| C...100  |      | 59.26.2100   | 10uF -20%, 16V, SAL    | Ph           |         |      |              |                                     |              |
| C...101  |      | 59.26.2100   | 10uF -20%, 6.3V, SAL   | Ph           |         |      |              |                                     |              |
| C...102  |      | 59.26.2100   | 10uF -20%, 6.3V, SAL   | Ph           |         |      |              |                                     |              |
| C...103  |      | 59.26.2100   | 10uF -20%, 6.3V, SAL   | Ph           |         |      |              |                                     |              |
| C...104  |      | 59.26.2100   | 10uF -20%, 6.3V, SAL   | Ph           |         |      |              |                                     |              |
| C...105  |      | 59.26.2100   | 10uF -20%, 6.3V, SAL   | Ph           |         |      |              |                                     |              |
| C...106  |      | 59.26.2100   | 10uF -20%, 6.3V, SAL   | Ph           |         |      |              |                                     |              |
| C...107  |      | 59.26.2100   | 10uF -20%, 6.3V, SAL   | Ph           |         |      |              |                                     |              |
| C...108  |      | 59.26.2100   | 10uF -20%, 6.3V, SAL   | Ph           |         |      |              |                                     |              |
| C...109  |      | 59.26.2100   | 10uF -20%, 6.3V, SAL   | Ph           |         |      |              |                                     |              |
| C...110  |      | 59.26.2100   | 10uF -20%, 6.3V, SAL   | Ph           |         |      |              |                                     |              |
| C...111  |      | 59.26.2100   | 10uF -20%, 6.3V, SAL   | Ph           |         |      |              |                                     |              |
| C...112  |      | 59.26.2100   | 10uF -20%, 6.3V, SAL   | Ph           |         |      |              |                                     |              |

CER=Ceramic, EL=Electrolytic, PETP=Polyesterfilm, SAL=Solid Aluminum.  
 MANUFACTURERS: AMP=AMP Incorporated, Ph=Philips, St=Studer  
 1.862.711.00 REPRO PREAMPLIFIER 24 CH RGR89/08/3000

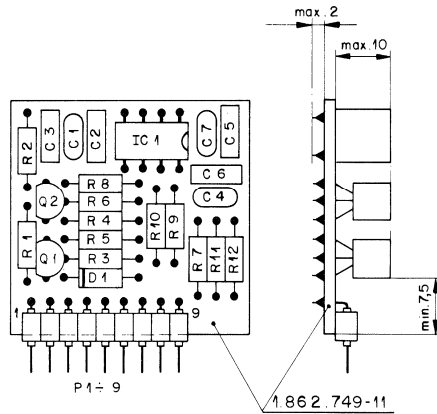
END

PREAMPLIFIER PCM 1CH 1.862.749.00



|               |                        |    |              |
|---------------|------------------------|----|--------------|
| © 06.10.89 ZB |                        |    |              |
|               | D827 MCH               |    | PAGE 1 OF 1  |
| <b>STUDER</b> | PREAMPLIFIER PCM, 1 CH | SC | 1.862.749.00 |

PREAMPLIFIER PCM 1CH 1.862.749.00



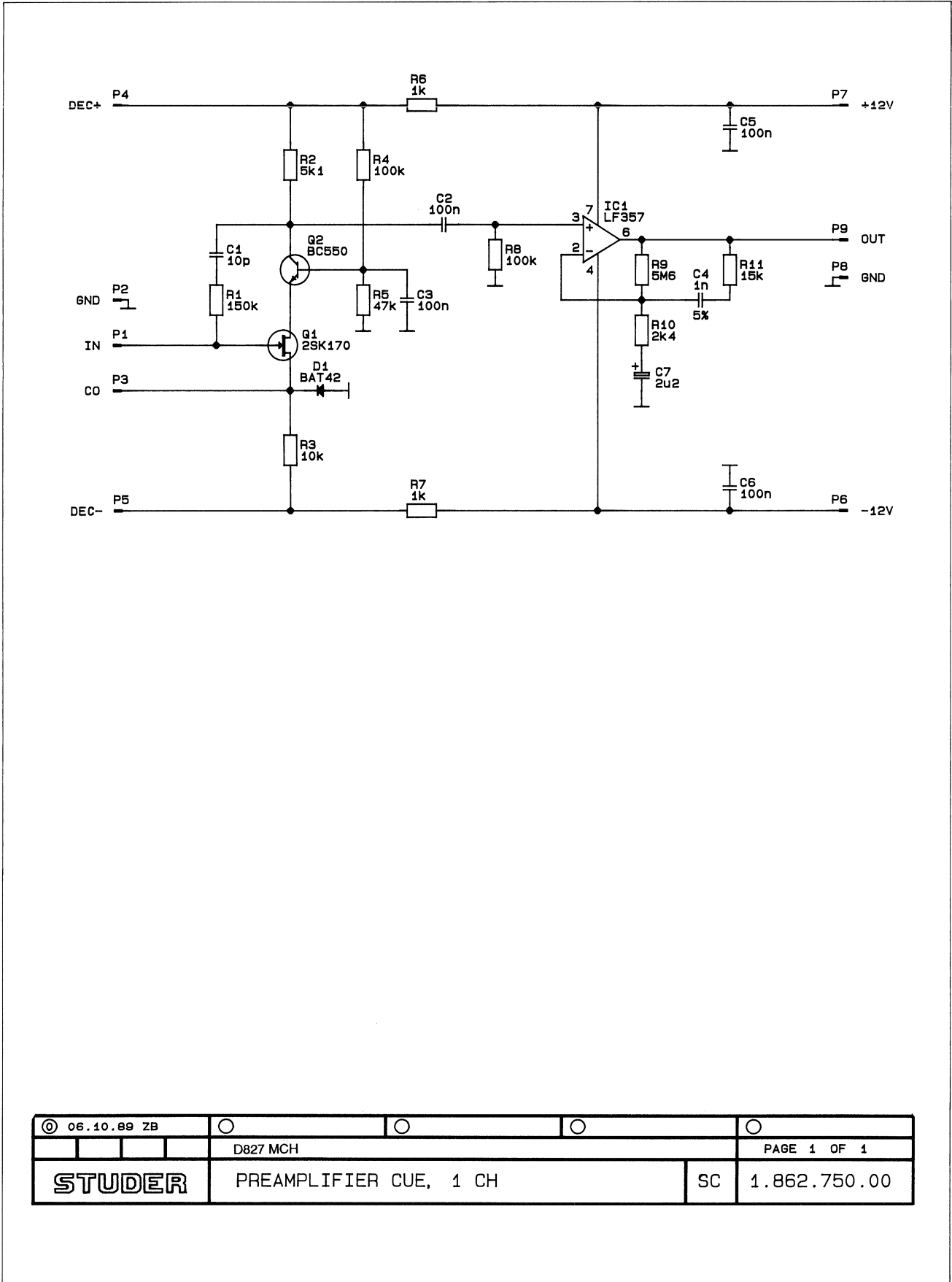
| Ad       | ..POS.. | ...REF.No... | DESCRIPTION.....             | MANUFACTURER |
|----------|---------|--------------|------------------------------|--------------|
| C.....1  |         | 59.34.1100   | 10 pF 10%, 25V, CER          |              |
| C.....2  |         | 59.06.0104   | 100 nF 10%, 25V, PETP        |              |
| C.....3  |         | 59.06.0104   | 100 nF 10%, 25V, PETP        |              |
| C.....4  |         | 59.34.1100   | 10 pF 5%, 25V, CER           |              |
| C.....5  |         | 59.06.0104   | 100 nF 10%, 25V, PETP        |              |
| C.....6  |         | 59.06.0104   | 100 nF 10%, 25V, PETP        |              |
| C.....7  |         | 59.34.1100   | 10 pF 5%, 25V, CER           |              |
| D.....1  |         | 50.04.0127   | BAT 85 BAT 42, BAS 40-02     |              |
| IC.....1 |         | 50.09.0117   | MC 33078 OPA                 | Mot          |
| P.....1  |         | 53.03.0250   | right angle, SMC 032 GH F BB | Prc          |
| P.....2  |         | 53.03.0250   | right angle, SMC 032 GH F BB | Prc          |
| P.....3  |         | 53.03.0250   | right angle, SMC 032 GH F BB | Prc          |
| P.....4  |         | 53.03.0250   | right angle, SMC 032 GH F BB | Prc          |
| P.....5  |         | 53.03.0250   | right angle, SMC 032 GH F BB | Prc          |
| P.....6  |         | 53.03.0250   | right angle, SMC 032 GH F BB | Prc          |
| P.....7  |         | 53.03.0250   | right angle, SMC 032 GH F BB | Prc          |
| P.....8  |         | 53.03.0250   | right angle, SMC 032 GH F BB | Prc          |
| P.....9  |         | 53.03.0250   | right angle, SMC 032 GH F BB | Prc          |
| Q.....1  |         | 50.03.0215   | 2 SK 170 N-JFET, low noise   | To           |
| Q.....2  |         | 50.03.0497   | BC 550 NPN                   | Mot, Ph, Sie |
| R.....1  |         | 57.11.3224   | 220 kOhm 2%,MF               |              |
| R.....2  |         | 57.11.3512   | 5.1 kOhm 2%,MF               |              |
| R.....3  |         | 57.11.3103   | 10 kOhm 2%,MF                |              |
| R.....4  |         | 57.11.3104   | 100 kOhm 2%,MF               |              |
| R.....5  |         | 57.11.3473   | 47 kOhm 2%,MF                |              |
| R.....6  |         | 57.11.3102   | 1 kOhm 2%,MF                 |              |
| R.....7  |         | 57.11.3102   | 1 kOhm 2%,MF                 |              |
| R.....8  |         | 57.11.3223   | 22 kOhm 2%,MF                |              |
| R.....9  |         | 57.11.3682   | 6.8 kOhm 2%,MF               |              |
| R.....10 |         | 57.11.3102   | 1 kOhm 2%,MF                 |              |
| R.....11 |         | 57.11.3682   | 6.8 kOhm 2%,MF               |              |
| R.....12 |         | 57.11.3102   | 1 kOhm 2%,MF                 |              |

CER=Ceramic, PETP=Polyesterfilm, MF=Metalfilm

MANUFACTURER: Mot=Motorola, Ph=Philips, Prc=Precicontact, Sie=Siemens  
To=Toshiba

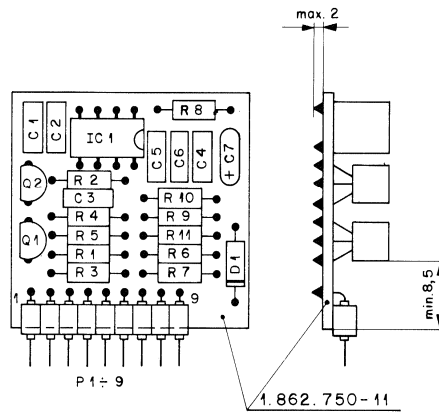
1.862.749.00 PREAMPLIFIER PCM, 1 CH ZB 89/04/2000

PREAMPLIFIER CUE 1CH 1.862.750.00



|               |                        |    |  |              |
|---------------|------------------------|----|--|--------------|
| © 06.10.89 ZB |                        |    |  |              |
|               | D827 MCH               |    |  | PAGE 1 OF 1  |
| <b>STUDER</b> | PREAMPLIFIER CUE, 1 CH | SC |  | 1.862.750.00 |

PREAMPLIFIER CUE 1CH 1.862.750.00



| Ad       | ..POS..    | ..REF.No.. | DESCRIPTION.....  | MANUFACTURER |
|----------|------------|------------|-------------------|--------------|
| C.....1  | 59.34.1100 | 10 pF      | 10%, 25V, CER     |              |
| C.....2  | 59.06.0104 | 100 nF     | 10%, 25V, PETP    |              |
| C.....3  | 59.06.0104 | 100 nF     | 10%, 25V, PETP    |              |
| C.....4  | 59.06.5102 | 1 nF       | 5%, 25V, PETP     |              |
| C.....5  | 59.06.0104 | 100 nF     | 10%, 25V, PETP    |              |
| C.....6  | 59.06.0104 | 100 nF     | 10%, 25V, PETP    |              |
| C.....7  | 59.26.5229 | 2.2 uF     | 20%, 25V, SAL     | Ph           |
| D.....1  | 50.04.0127 | BAT 85     | BAT 42            | Ph,SGS,Th    |
| IC....1  | 50.09.0102 | LF 357 N   | OPA               | NS           |
| P.....1  | 53.03.0250 | connector  | right angle       |              |
| P.....2  | 53.03.0250 | connector  | right angle       |              |
| P.....3  | 53.03.0250 | connector  | right angle       |              |
| P.....4  | 53.03.0250 | connector  | right angle       |              |
| P.....5  | 53.03.0250 | connector  | right angle       |              |
| P.....6  | 53.03.0250 | connector  | right angle       |              |
| P.....7  | 53.03.0250 | connector  | right angle       |              |
| P.....8  | 53.03.0250 | connector  | right angle       |              |
| P.....9  | 53.03.0250 | connector  | right angle       |              |
| Q.....1  | 50.03.0215 | 2 SK 170   | N-JFET, low noise | To           |
| Q.....2  | 50.03.0497 | BC 550     | E 6328, NPN       | Sie          |
| R.....1  | 57.11.3154 | 150 kOhm   | 2%, MF            |              |
| R.....2  | 57.11.3512 | 5.1 kOhm   | 2%, MF            |              |
| R.....3  | 57.11.3103 | 10 kOhm    | 2%, MF            |              |
| R.....4  | 57.11.3104 | 100 kOhm   | 2%, MF            |              |
| R.....5  | 57.11.3473 | 47 kOhm    | 2%, MF            |              |
| R.....6  | 57.11.3102 | 1 kOhm     | 2%, MF            |              |
| R.....7  | 57.11.3102 | 1 kOhm     | 2%, MF            |              |
| R.....8  | 57.11.3104 | 100 kOhm   | 2%, MF            |              |
| R.....9  | 57.11.5565 | 5.6 MOhm   | 5%, MF            |              |
| R.....10 | 57.11.3242 | 2.4 kOhm   | 2%, MF            |              |
| R....11  | 57.11.3153 | 15 kOhm    | 2%, MF            |              |

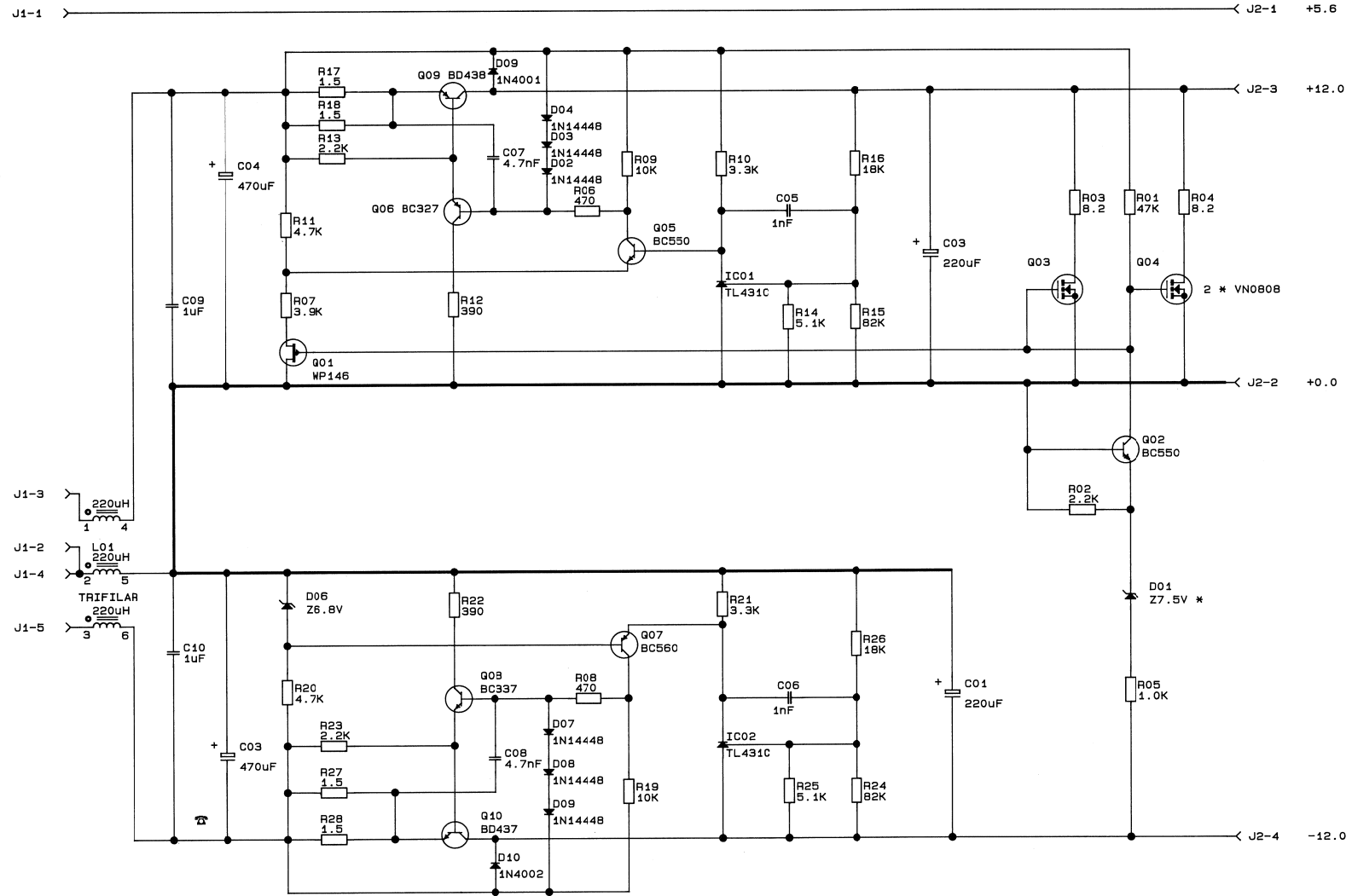
CER=Ceramic, MF=Metalfilm, PETP=Polyesterfilm, SAL=Solid Aluminium

Manufacturers: NS=National Semiconductors, Ph=Philips, SGS=SGS/Ates  
Sie=Siemens, Th=Thomson, To=Toshiba

1.862.750.00 PREAMPLIFIER CUE, 1 CH ZB89/06/0200



PREAMPLIFIER POWER SUPPLY 1.862.743.00

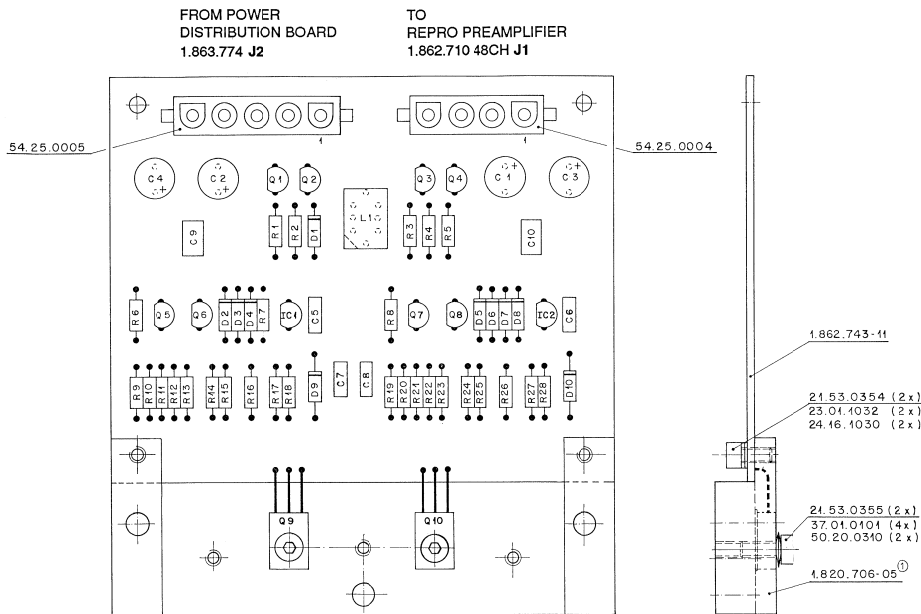


\*New Adaptation of Supply Voltage Margin

|               |                |                           |             |                 |
|---------------|----------------|---------------------------|-------------|-----------------|
| © 25.4.89 IVA | ④ 12.12.89 BBT | ○                         | ○           | ○               |
| D827 MCH      |                |                           | PAGE 1 OF 1 |                 |
| STUDER        |                | PREAMPLIFIER POWER SUPPLY |             | SC 1.862.743.00 |



PREAMPLIFIER POWER SUPPLY 1.862.743.00



|                  |
|------------------|
| 1.862.743-11     |
| 21.53.0354 (2 x) |
| 23.04.1032 (2 x) |
| 24.16.1030 (2 x) |
| 21.53.0355 (2 x) |
| 37.01.0104 (4 x) |
| 50.20.0340 (2 x) |
| 1.820.706-05 (1) |

|   |          |      |     |       |  |
|---|----------|------|-----|-------|--|
| Autosatz                                      | Autosatz |      |     |       |  |
| 17.8.89                                       | Kr       |      |     |       |  |
| 26.5.89                                       | BBT      |      |     |       |  |
| Datum   | Gez      | Gepr | Gez | Indst |  |
| Kopie für:                                    |          |      |     |       |  |
| STUDER<br>REGESBORGF<br>ZÜRICH                |          |      |     |       |  |
| Brennzeichn: PREAMPLIFIER<br>POWER SUPPLY ESE |          |      |     |       |  |
| Nummer: 1.862.743-00                          |          |      |     |       |  |

| Ad | POS    | REF          | No         | DESCRIPTION             | MANUFACTURER               |
|----|--------|--------------|------------|-------------------------|----------------------------|
| C  | ....1  | 59.25.5221   | 220 uF     | -20%, 16V, EI           |                            |
| C  | ....2  | 59.25.5221   | 220 uF     | -20%, 16V, EI           |                            |
| C  | ....3  | 59.25.6471   | 470 uF     | -20%, 16V, EI           |                            |
| C  | ....4  | 59.25.6471   | 470 uF     | -20%, 16V, EI           |                            |
| C  | ....5  | 59.06.0102   | 1 nF       | 10%, 16V, PETP          |                            |
| C  | ....6  | 59.06.0102   | 1 nF       | 10%, 16V, PETP          |                            |
| C  | ....7  | 59.06.0472   | 4,7 nF     | 10%, 16V, PETP          |                            |
| C  | ....8  | 59.06.0472   | 4,7 nF     | 10%, 16V, PETP          |                            |
| C  | ....9  | 59.06.0105   | 1 uF       | 10%, 16V, PETP          |                            |
| C  | ....10 | 59.06.0105   | 1 uF       | 10%, 16V, PETP          |                            |
| D  | ....1  | 50.04.1114   | 10 V Z     | 82X 55 C10              | ITT, Mot, Ph, Tf, SGS, Tho |
| D  | ....2  | 50.04.1103   | 7,5 V Z    | 82X 55 C7V5             | ITT, Mot, Ph, Tf, SGS, Tho |
| D  | ....3  | 50.04.0125   | 1N 4448    |                         | Fc, ITT, Ph, SES, Tf       |
| D  | ....4  | 50.04.0125   | 1N 4448    |                         | Fc, ITT, Ph, SES, Tf       |
| D  | ....5  | 50.04.0125   | 1N 4448    |                         | Fc, ITT, Ph, SES, Tf       |
| D  | ....6  | 50.04.1102   | 6,8 V Z    | 82X 55 C6V8             | ITT, Mot, Ph, Tf, SGS, Tho |
| D  | ....7  | 50.04.0125   | 1N 4448    |                         | Fc, ITT, Ph, SES, Tf       |
| D  | ....8  | 50.04.0125   | 1N 4448    |                         | Fc, ITT, Ph, SES, Tf       |
| D  | ....9  | 50.04.0122   | 1N 4001    |                         | Fc, ITT, Ph, SES, Tf       |
| D  | ....10 | 50.04.0122   | 1N 4001    |                         | GI, Mot, ITT               |
| IC | ....1  | 50.10.0106   | TL 431 CLP |                         | Mot, TI                    |
| IC | ....2  | 50.10.0106   | TL 431 CLP |                         | Mot, TI                    |
| L  | ....1  | 1.022.630.00 | Trifilar   | Common Mode Choke       | St                         |
| Q  | ....1  | 50.03.0329   | HP 146     |                         | Six                        |
| Q  | ....2  | 50.03.0497   | BC 550 E   |                         | Sie                        |
| Q  | ....3  | 50.03.1505   | VN 0808 M  |                         | Fc, Six                    |
| Q  | ....4  | 50.03.1505   | VN 0808 M  | ZVN 0108 A, VN 0808 MTR | Fc, Six                    |
| Q  | ....5  | 50.03.0497   | BC 550 E   | ZVN 0108 A, VN 0808 MTR | Sie                        |
| Q  | ....6  | 50.03.0351   | BC 327-25  |                         | ITT, Ph, Sie               |
| Q  | ....7  | 50.03.0496   | BC 550 E   |                         | Sie                        |
| Q  | ....8  | 50.03.0340   | BC 337-25  |                         | ITT, NS, Ph, Sie           |
| Q  | ....9  | 50.03.0751   | BD 179-10  | BD 438                  | Mot, Ph                    |
| Q  | ....10 | 50.03.0493   | BD 437     | BD 439                  | Mot, Ph                    |
| R  | ....1  | 57.11.3473   | 47 kOhm    | 5%                      |                            |
| R  | ....2  | 57.11.3222   | 2,2 kOhm   | 5%                      |                            |
| R  | ....3  | 57.11.3829   | 8,2 Ohm    | 5%                      |                            |
| R  | ....4  | 57.11.3829   | 8,2 Ohm    | 5%                      |                            |
| R  | ....5  | 57.11.3102   | 1 kOhm     | 5%                      |                            |
| R  | ....6  | 57.11.3471   | 470 Ohm    | 5%                      |                            |
| R  | ....7  | 57.11.3392   | 3,9 kOhm   | 5%                      |                            |
| R  | ....8  | 57.11.3471   | 470 Ohm    | 5%                      |                            |
| R  | ....9  | 57.11.3103   | 10 kOhm    | 5%                      |                            |
| R  | ....10 | 57.11.3332   | 3,3 kOhm   | 5%                      |                            |
| R  | ....11 | 57.11.3472   | 4,7 kOhm   | 5%                      |                            |
| R  | ....12 | 57.11.3391   | 390 Ohm    | 5%                      |                            |
| R  | ....13 | 57.11.3222   | 2,2 kOhm   | 5%                      |                            |
| R  | ....14 | 57.11.3512   | 5,1 kOhm   | 1%                      |                            |
| R  | ....15 | 57.11.3823   | 82 kOhm    | 2%                      |                            |
| R  | ....16 | 57.11.3183   | 18 kOhm    | 1%                      |                            |
| R  | ....17 | 57.11.3159   | 1,5 Ohm    | 2%                      |                            |
| R  | ....18 | 57.11.3159   | 1,5 Ohm    | 2%                      |                            |
| R  | ....19 | 57.11.3103   | 10 kOhm    | 5%                      |                            |
| R  | ....20 | 57.11.3472   | 4,7 kOhm   | 5%                      |                            |
| R  | ....21 | 57.11.3332   | 3,3 kOhm   | 5%                      |                            |
| R  | ....22 | 57.11.3391   | 390 Ohm    | 5%                      |                            |
| R  | ....23 | 57.11.3222   | 2,2 kOhm   | 5%                      |                            |
| R  | ....24 | 57.11.3823   | 82 kOhm    | 2%                      |                            |
| R  | ....25 | 57.11.3512   | 5,1 kOhm   | 1%                      |                            |
| R  | ....26 | 57.11.3183   | 18 kOhm    | 1%                      |                            |
| R  | ....27 | 57.11.3159   | 1,5 Ohm    | 2%                      |                            |
| R  | ....28 | 57.11.3159   | 1,5 Ohm    | 2%                      |                            |

(01) 12.12.89 New adaptation of supply voltage margin.

EI=Electrolytic, PETP=Polyesterfilm.

MANUFACTURER: Fc=Ferranti, Fc=Fairchild, GI=General Instruments, ITT=Intermetal, Mot=Motorola, NS=National Semiconductors, Ph=Philips, SES=Secossem, SGS=SGS/Ates, Sie=Siemens, Six=Siliconix, St=Studer, Tf=Telefunken, Tho=Thomson, TI=Texas Instruments.

1.862.743.00 PREAMPLIFIER POWER SUPPLY BD 88/11/3000

1.862.743.00 PREAMPLIFIER POWER SUPPLY BD 89/12/1201

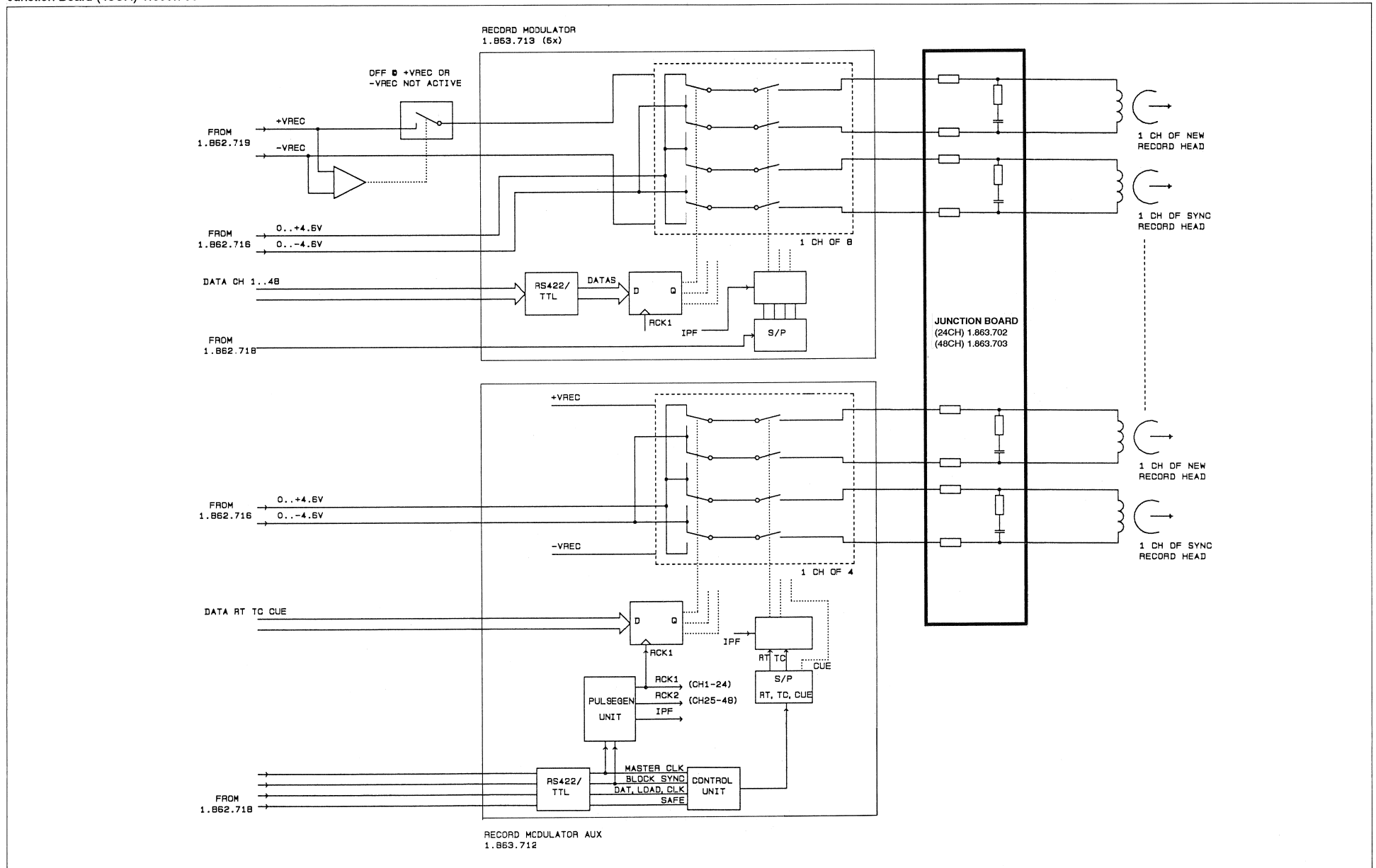


STUDER D827 MCH

BLOCK DIAGRAM

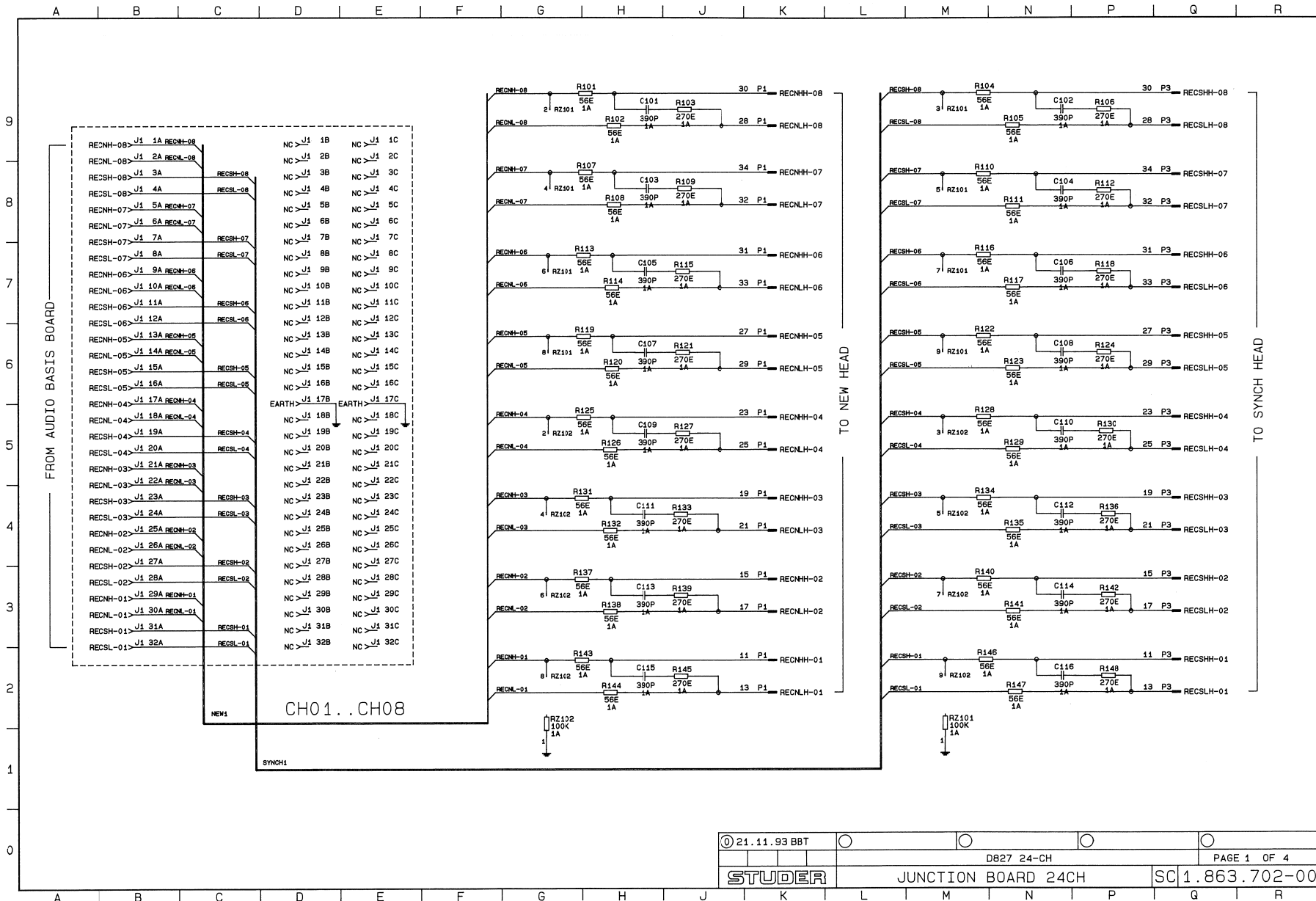
Junction Board (24CH) 1.863.702

Junction Board (48CH) 1.863.703

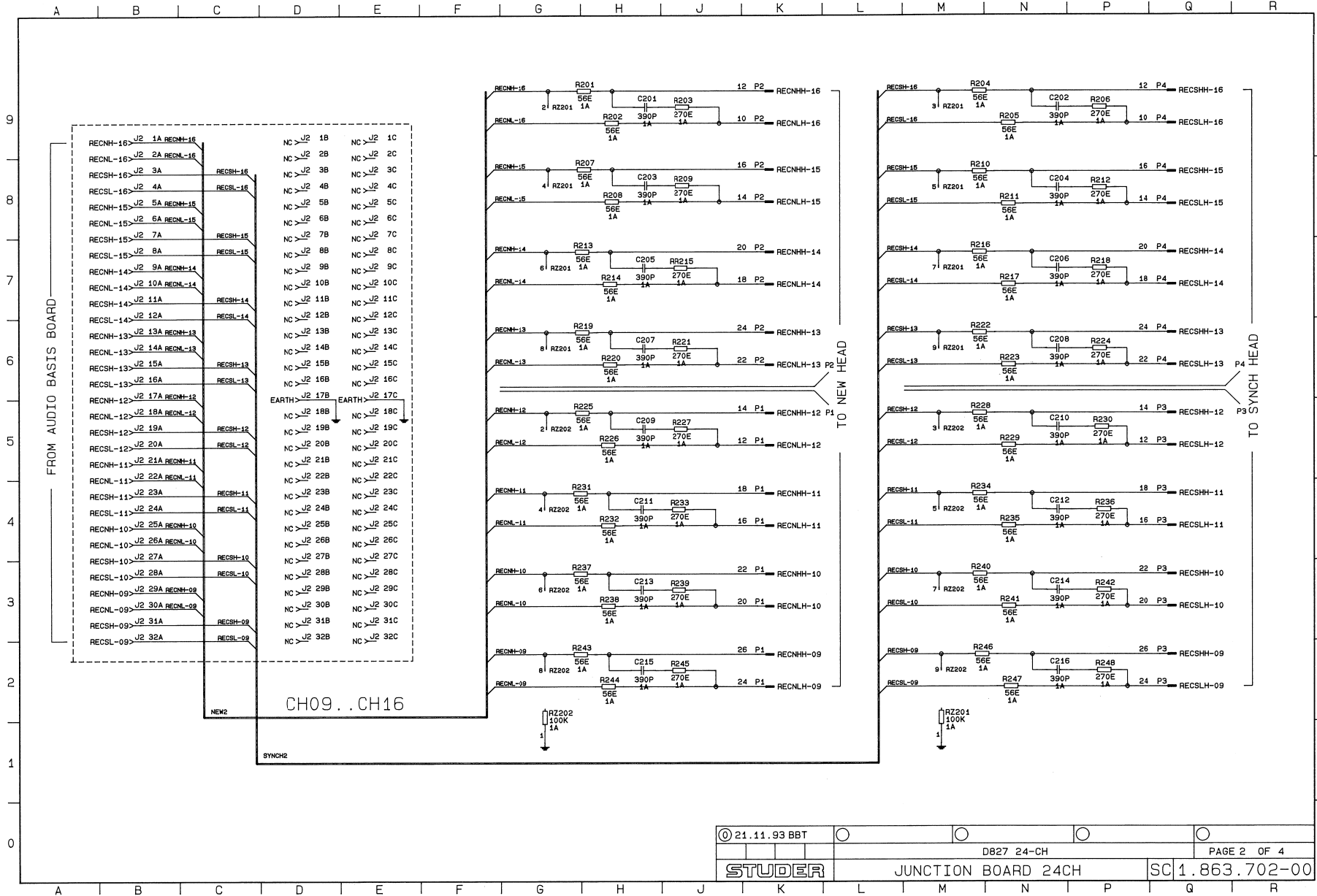


STUDER D827 MCH

JUNCTION BOARD 24CH 1.863.702.00

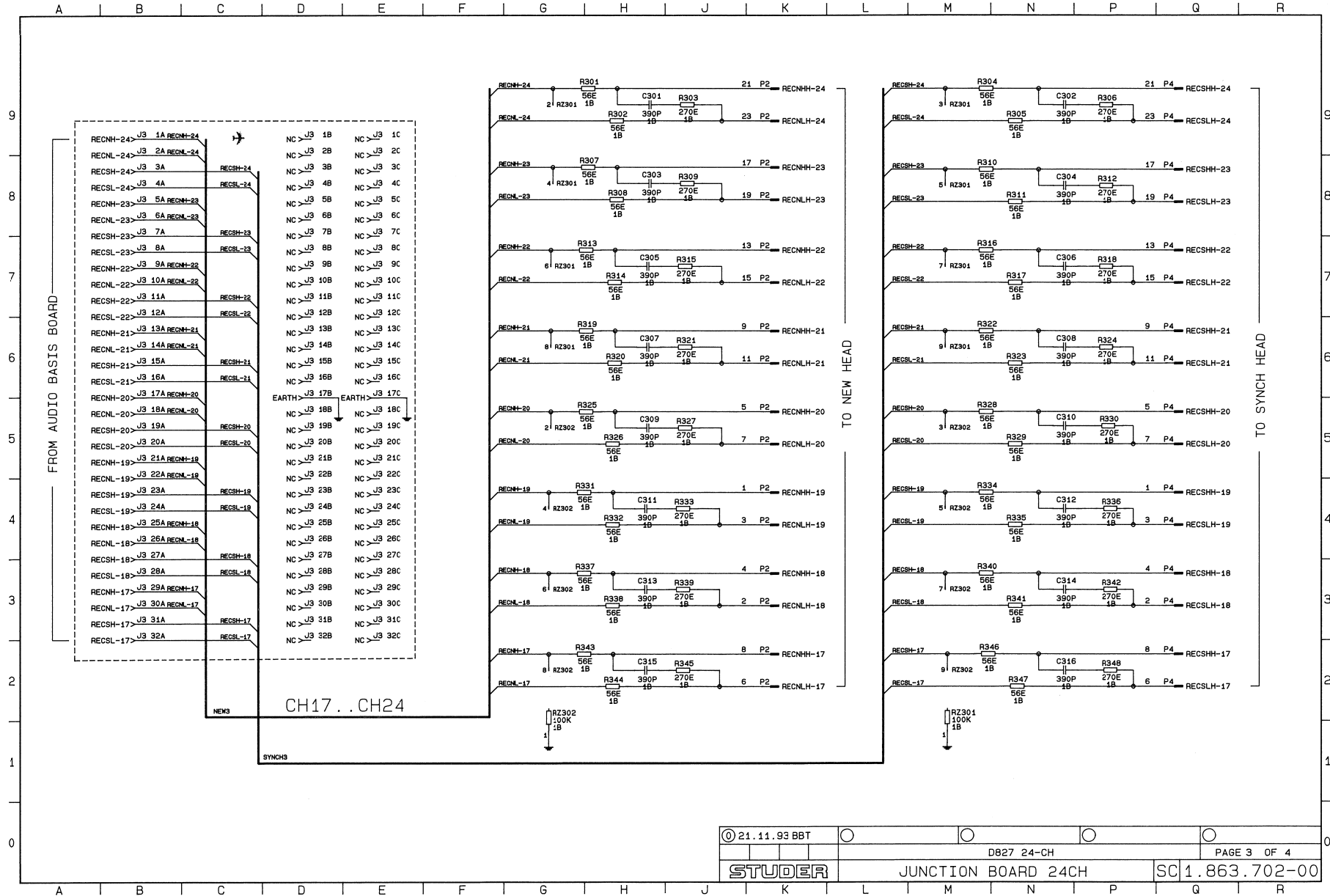


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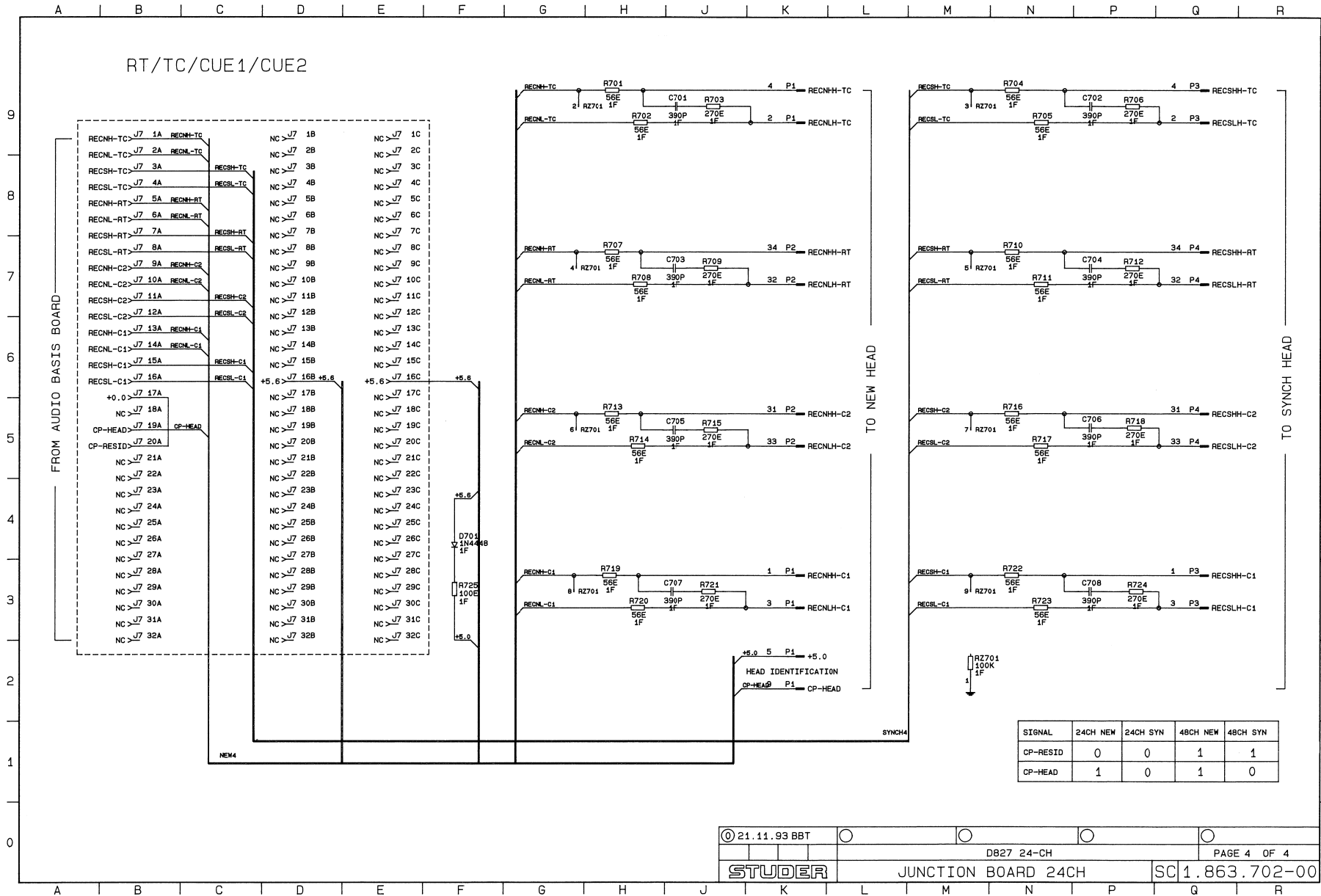


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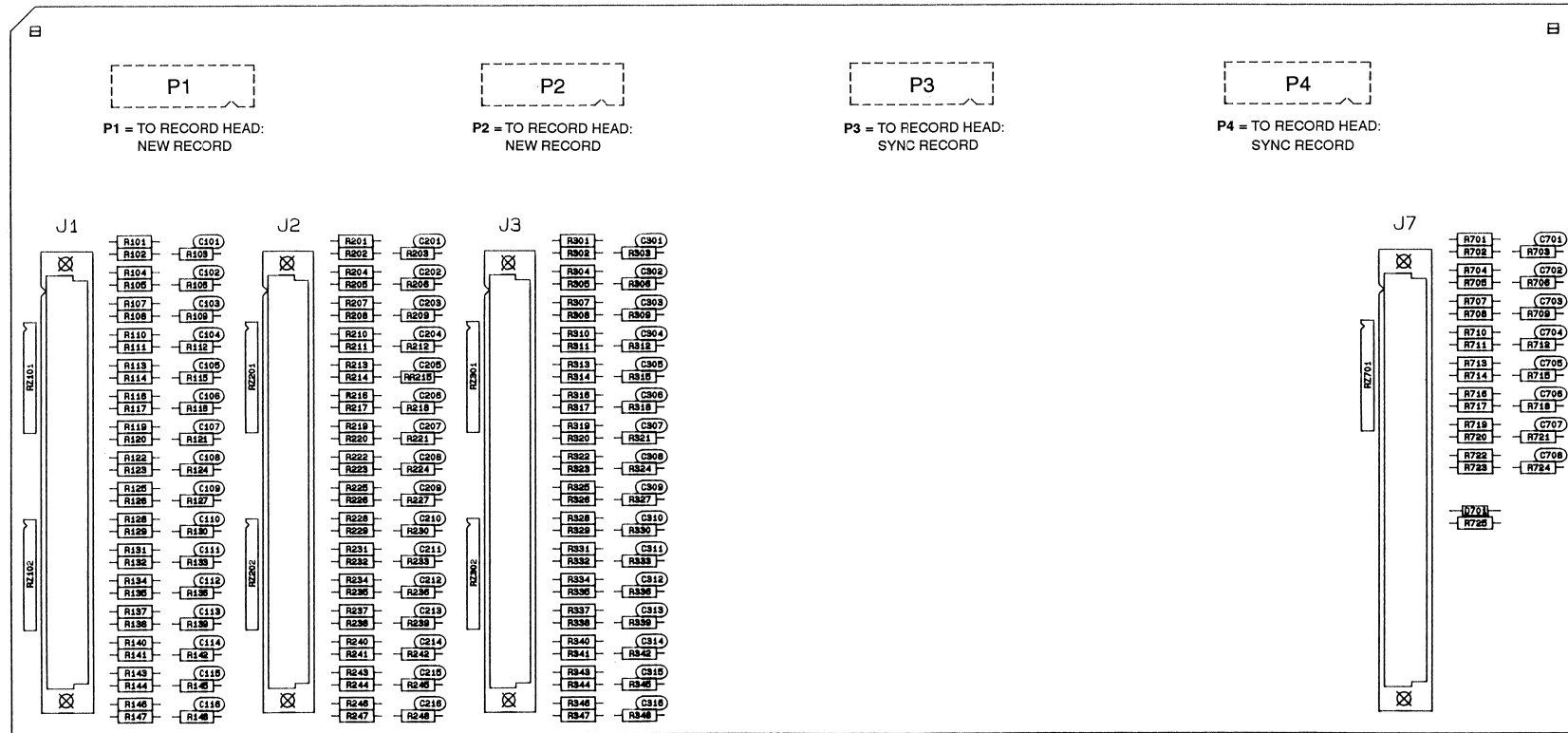
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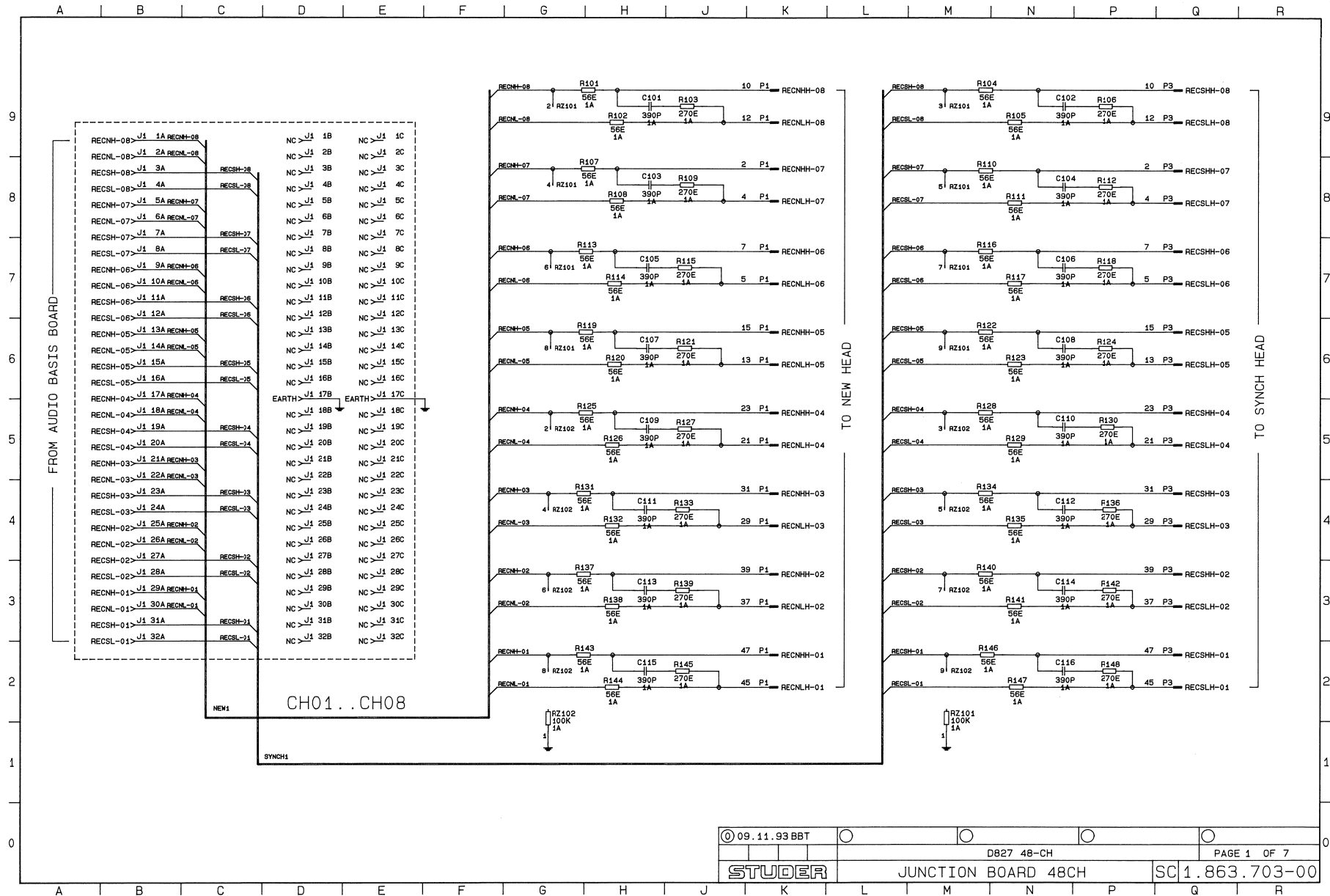


JUNCTION BOARD 24CH 1.863.702.00

| Ad       | ..POS.       | ..REF.No. | DESCRIPTION                         | MANUFACTURER | Ad     | ..POS.     | ..REF.No. | DESCRIPTION  | MANUFACTURER | Ad   | ..POS.     | ..REF.No. | DESCRIPTION                 | MANUFACTURER |
|----------|--------------|-----------|-------------------------------------|--------------|--------|------------|-----------|--------------|--------------|--|------------|-----------|-----------------------------|--------------|
| C..101   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..128 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              | R..330   | 57.11.3271 | 270E      | 1%, 0.6W, MF                |              |
| C..102   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..129 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              | R..331   | 57.11.3560 | 56E       | 1%, 0.6W, MF                |              |
| C..103   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..130 | 57.11.3271 | 270E      | 1%, 0.6W, MF |              | R..332   | 57.11.3560 | 56E       | 1%, 0.6W, MF                |              |
| C..104   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..131 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              | R..333   | 57.11.3271 | 270E      | 1%, 0.6W, MF                |              |
| C..105   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..132 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              | R..334   | 57.11.3560 | 56E       | 1%, 0.6W, MF                |              |
| C..106   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..133 | 57.11.3271 | 270E      | 1%, 0.6W, MF |              | R..335   | 57.11.3560 | 56E       | 1%, 0.6W, MF                |              |
| C..107   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..134 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              | R..336   | 57.11.3271 | 270E      | 1%, 0.6W, MF                |              |
| C..108   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..135 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              | R..337   | 57.11.3560 | 56E       | 1%, 0.6W, MF                |              |
| C..109   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..136 | 57.11.3271 | 270E      | 1%, 0.6W, MF |              | R..338   | 57.11.3560 | 56E       | 1%, 0.6W, MF                |              |
| C..110   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..137 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              | R..339   | 57.11.3271 | 270E      | 1%, 0.6W, MF                |              |
| C..111   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..138 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              | R..340   | 57.11.3560 | 56E       | 1%, 0.6W, MF                |              |
| C..112   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..139 | 57.11.3271 | 270E      | 1%, 0.6W, MF |              | R..341   | 57.11.3560 | 56E       | 1%, 0.6W, MF                |              |
| C..113   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..140 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              | R..342   | 57.11.3271 | 270E      | 1%, 0.6W, MF                |              |
| C..114   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..141 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              | R..343   | 57.11.3560 | 56E       | 1%, 0.6W, MF                |              |
| C..115   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..142 | 57.11.3271 | 270E      | 1%, 0.6W, MF |              | R..344   | 57.11.3560 | 56E       | 1%, 0.6W, MF                |              |
| C..201   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..143 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              | R..345   | 57.11.3271 | 270E      | 1%, 0.6W, MF                |              |
| C..202   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..144 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              | R..346   | 57.11.3560 | 56E       | 1%, 0.6W, MF                |              |
| C..203   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..145 | 57.11.3271 | 270E      | 1%, 0.6W, MF |              | R..347   | 57.11.3560 | 56E       | 1%, 0.6W, MF                |              |
| C..204   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..146 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              | R..348   | 57.11.3271 | 270E      | 1%, 0.6W, MF                |              |
| C..205   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..147 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              | R..701   | 57.11.3560 | 56E       | 1%, 0.6W, MF                |              |
| C..206   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..148 | 57.11.3271 | 270E      | 1%, 0.6W, MF |              | R..702   | 57.11.3560 | 56E       | 1%, 0.6W, MF                |              |
| C..207   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..201 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              | R..703   | 57.11.3271 | 270E      | 1%, 0.6W, MF                |              |
| C..208   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..202 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              | R..704   | 57.11.3560 | 56E       | 1%, 0.6W, MF                |              |
| C..209   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..203 | 57.11.3271 | 270E      | 1%, 0.6W, MF |              | R..705   | 57.11.3560 | 56E       | 1%, 0.6W, MF                |              |
| C..210   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..204 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              | R..706   | 57.11.3271 | 270E      | 1%, 0.6W, MF                |              |
| C..211   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..205 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              | R..707   | 57.11.3560 | 56E       | 1%, 0.6W, MF                |              |
| C..212   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..206 | 57.11.3271 | 270E      | 1%, 0.6W, MF |              | R..708   | 57.11.3560 | 56E       | 1%, 0.6W, MF                |              |
| C..213   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..207 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              | R..709   | 57.11.3271 | 270E      | 1%, 0.6W, MF                |              |
| C..214   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..208 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              | R..710   | 57.11.3560 | 56E       | 1%, 0.6W, MF                |              |
| C..215   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..209 | 57.11.3271 | 270E      | 1%, 0.6W, MF |              | R..711   | 57.11.3560 | 56E       | 1%, 0.6W, MF                |              |
| C..216   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..210 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              | R..712   | 57.11.3271 | 270E      | 1%, 0.6W, MF                |              |
| C..301   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..211 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              | R..713   | 57.11.3560 | 56E       | 1%, 0.6W, MF                |              |
| C..302   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..212 | 57.11.3271 | 270E      | 1%, 0.6W, MF |              | R..714   | 57.11.3560 | 56E       | 1%, 0.6W, MF                |              |
| C..303   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..213 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              | R..715   | 57.11.3271 | 270E      | 1%, 0.6W, MF                |              |
| C..304   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..214 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              | R..716   | 57.11.3560 | 56E       | 1%, 0.6W, MF                |              |
| C..305   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..215 | 57.11.3271 | 270E      | 1%, 0.6W, MF |              | R..717   | 57.11.3560 | 56E       | 1%, 0.6W, MF                |              |
| C..306   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..216 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              | R..718   | 57.11.3271 | 270E      | 1%, 0.6W, MF                |              |
| C..307   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..217 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              | R..719   | 57.11.3560 | 56E       | 1%, 0.6W, MF                |              |
| C..308   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..218 | 57.11.3271 | 270E      | 1%, 0.6W, MF |              | R..720   | 57.11.3560 | 56E       | 1%, 0.6W, MF                |              |
| C..309   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..219 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              | R..721   | 57.11.3271 | 270E      | 1%, 0.6W, MF                |              |
| C..310   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..220 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              | R..722   | 57.11.3560 | 56E       | 1%, 0.6W, MF                |              |
| C..311   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..221 | 57.11.3271 | 270E      | 1%, 0.6W, MF |              | R..723   | 57.11.3560 | 56E       | 1%, 0.6W, MF                |              |
| C..312   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..222 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              | R..724   | 57.11.3271 | 270E      | 1%, 0.6W, MF                |              |
| C..313   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..223 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              | R..725   | 57.11.3101 | 100E      | 1%, 0.6W, MF                |              |
| C..314   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..224 | 57.11.3271 | 270E      | 1%, 0.6W, MF |              | R2..101  | 57.88.4104 | 100k      | 2%, 0.125W, SIP09, 8 * 100k |              |
| C..315   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..225 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              | R2..102  | 57.88.4104 | 100k      | 2%, 0.125W, SIP09, 8 * 100k |              |
| C..316   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..226 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              | R2..201  | 57.88.4104 | 100k      | 2%, 0.125W, SIP09, 8 * 100k |              |
| C..701   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..227 | 57.11.3271 | 270E      | 1%, 0.6W, MF |              | R2..202  | 57.88.4104 | 100k      | 2%, 0.125W, SIP09, 8 * 100k |              |
| C..702   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..228 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              | R2..301  | 57.88.4104 | 100k      | 2%, 0.125W, SIP09, 8 * 100k |              |
| C..703   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..229 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              | R2..302  | 57.88.4104 | 100k      | 2%, 0.125W, SIP09, 8 * 100k |              |
| C..704   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..230 | 57.11.3271 | 270E      | 1%, 0.6W, MF |              | R2..701  | 57.88.4104 | 100k      | 2%, 0.125W, SIP09, 8 * 100k |              |
| C..705   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..231 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              | 1.863.702-00 JUNCTION BOARD 24CH 8BT93/11/2100 |            |           |                             |              |
| C..706   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..232 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              |  |            |           |                             |              |
| C..707   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..233 | 57.11.3271 | 270E      | 1%, 0.6W, MF |              |  |            |           |                             |              |
| C..708   | 59.34.6391   | 390p      | 5%, 63V, N1500                      |              | R..234 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              |  |            |           |                             |              |
| D..701   | 50.04.0125   | 1M4448    | D035, RECTIFIER                     |              | R..235 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              |  |            |           |                             |              |
| J.....1  | 54.11.2011   | 96-P      | STR., FEM., J-EU-C 3x32P ACTION-PIN |              | R..236 | 57.11.3271 | 270E      | 1%, 0.6W, MF |              |  |            |           |                             |              |
| J.....2  | 54.11.2011   | 96-P      | STR., FEM., J-EU-C 3x32P ACTION-PIN |              | R..237 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              |  |            |           |                             |              |
| J.....3  | 54.11.2011   | 96-P      | STR., FEM., J-EU-C 3x32P ACTION-PIN |              | R..238 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              |  |            |           |                             |              |
| J.....4  | 54.11.2011   | 96-P      | STR., FEM., J-EU-C 3x32P ACTION-PIN |              | R..239 | 57.11.3271 | 270E      | 1%, 0.6W, MF |              |  |            |           |                             |              |
| MP.....1 | 1.863.702.01 |           | Nr. Etiquette 5x20                  |              | R..240 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              |  |            |           |                             |              |
| P.....1  | 54.16.0534   | 34-P      | PRINT CONNECTOR HIGH DENSITY        |              | R..241 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              |  |            |           |                             |              |
| P.....2  | 54.16.0534   | 34-P      | PRINT CONNECTOR HIGH DENSITY        |              | R..242 | 57.11.3271 | 270E      | 1%, 0.6W, MF |              |  |            |           |                             |              |
| P.....3  | 54.16.0534   | 34-P      | PRINT CONNECTOR HIGH DENSITY        |              | R..243 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              |  |            |           |                             |              |
| P.....4  | 54.16.0534   | 34-P      | PRINT CONNECTOR HIGH DENSITY        |              | R..244 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              |  |            |           |                             |              |
| PCB...1  | 1.863.702.11 |           | Empty PCB                           |              | R..245 | 57.11.3271 | 270E      | 1%, 0.6W, MF |              |  |            |           |                             |              |
| R..101   | 57.11.3560   | 56E       | 1%, 0.6W, MF                        |              | R..246 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              |  |            |           |                             |              |
| R..102   | 57.11.3560   | 56E       | 1%, 0.6W, MF                        |              | R..247 | 57.11.3271 | 270E      | 1%, 0.6W, MF |              |  |            |           |                             |              |
| R..103   | 57.11.3271   | 270E      | 1%, 0.6W, MF                        |              | R..248 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              |  |            |           |                             |              |
| R..104   | 57.11.3560   | 56E       | 1%, 0.6W, MF                        |              | R..301 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              |  |            |           |                             |              |
| R..105   | 57.11.3560   | 56E       | 1%, 0.6W, MF                        |              | R..302 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              |  |            |           |                             |              |
| R..106   | 57.11.3271   | 270E      | 1%, 0.6W, MF                        |              | R..303 | 57.11.3271 | 270E      | 1%, 0.6W, MF |              |  |            |           |                             |              |
| R..107   | 57.11.3560   | 56E       | 1%, 0.6W, MF                        |              | R..304 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              |  |            |           |                             |              |
| R..108   | 57.11.3560   | 56E       | 1%, 0.6W, MF                        |              | R..305 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              |  |            |           |                             |              |
| R..109   | 57.11.3271   | 270E      | 1%, 0.6W, MF                        |              | R..306 | 57.11.3271 | 270E      | 1%, 0.6W, MF |              |  |            |           |                             |              |
| R..110   | 57.11.3560   | 56E       | 1%, 0.6W, MF                        |              | R..307 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              |  |            |           |                             |              |
| R..111   | 57.11.3560   | 56E       | 1%, 0.6W, MF                        |              | R..308 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              |  |            |           |                             |              |
| R..112   | 57.11.3271   | 270E      | 1%, 0.6W, MF                        |              | R..309 | 57.11.3271 | 270E      | 1%, 0.6W, MF |              |  |            |           |                             |              |
| R..113   | 57.11.3560   | 56E       | 1%, 0.6W, MF                        |              | R..310 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              |  |            |           |                             |              |
| R..114   | 57.11.3560   | 56E       | 1%, 0.6W, MF                        |              | R..311 | 57.11.3560 | 56E       | 1%, 0.6W, MF |              |  |            |           |                             |              |
| R..115   | 57.11.3271   | 270E      | 1%, 0.6W, MF                        |              | R..312 | 57.11.3271 | 270E      | 1%, 0.6W, MF |              |  |            |           |                             |              |
| R..116   | 57.11.3560   | 56E       | 1%, 0.6W, MF                        |              | R..31  |            |           |              |              |  |            |           |                             |              |

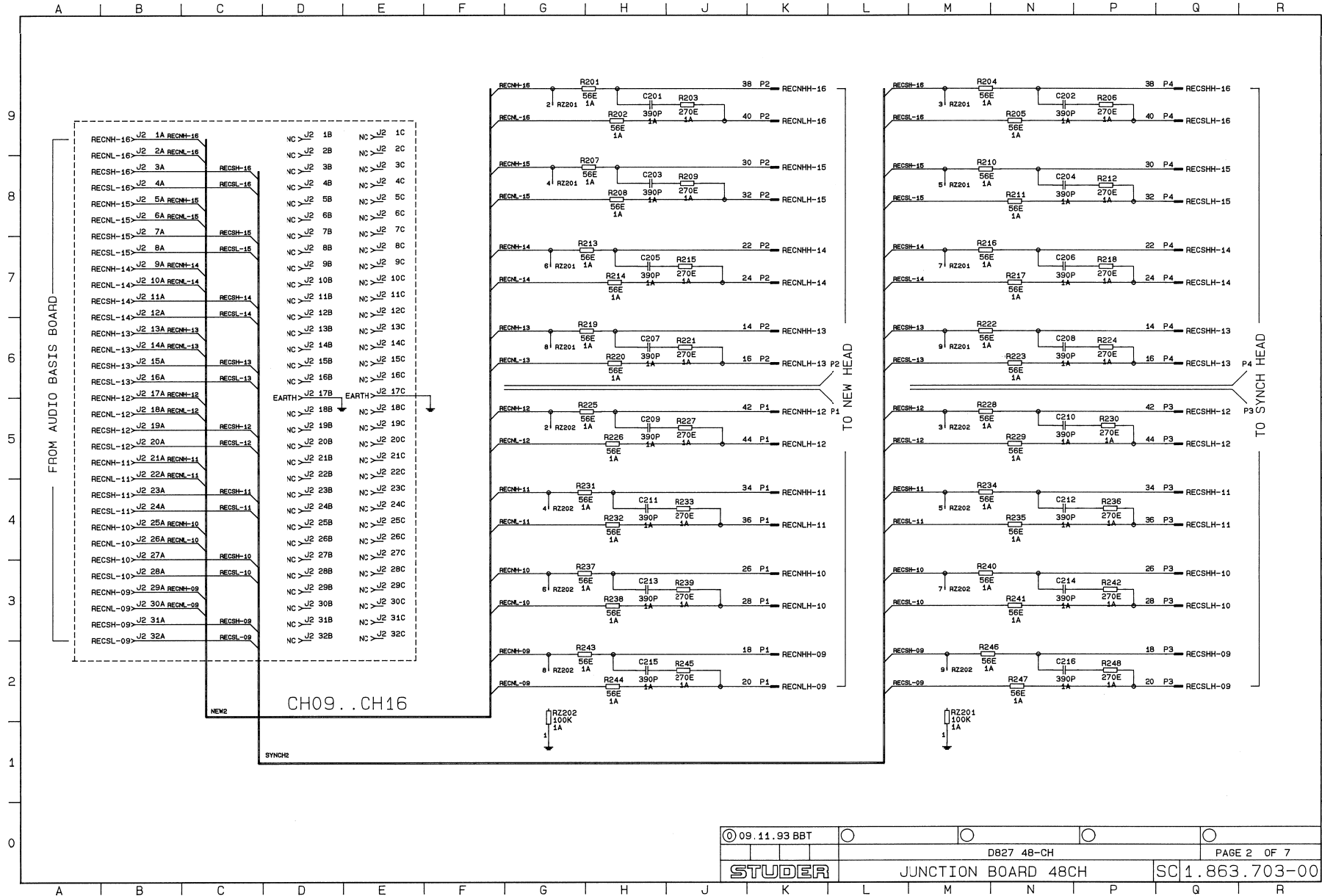
STUDER D827 MCH

JUNCTION BOARD 48CH 1.863.703.00



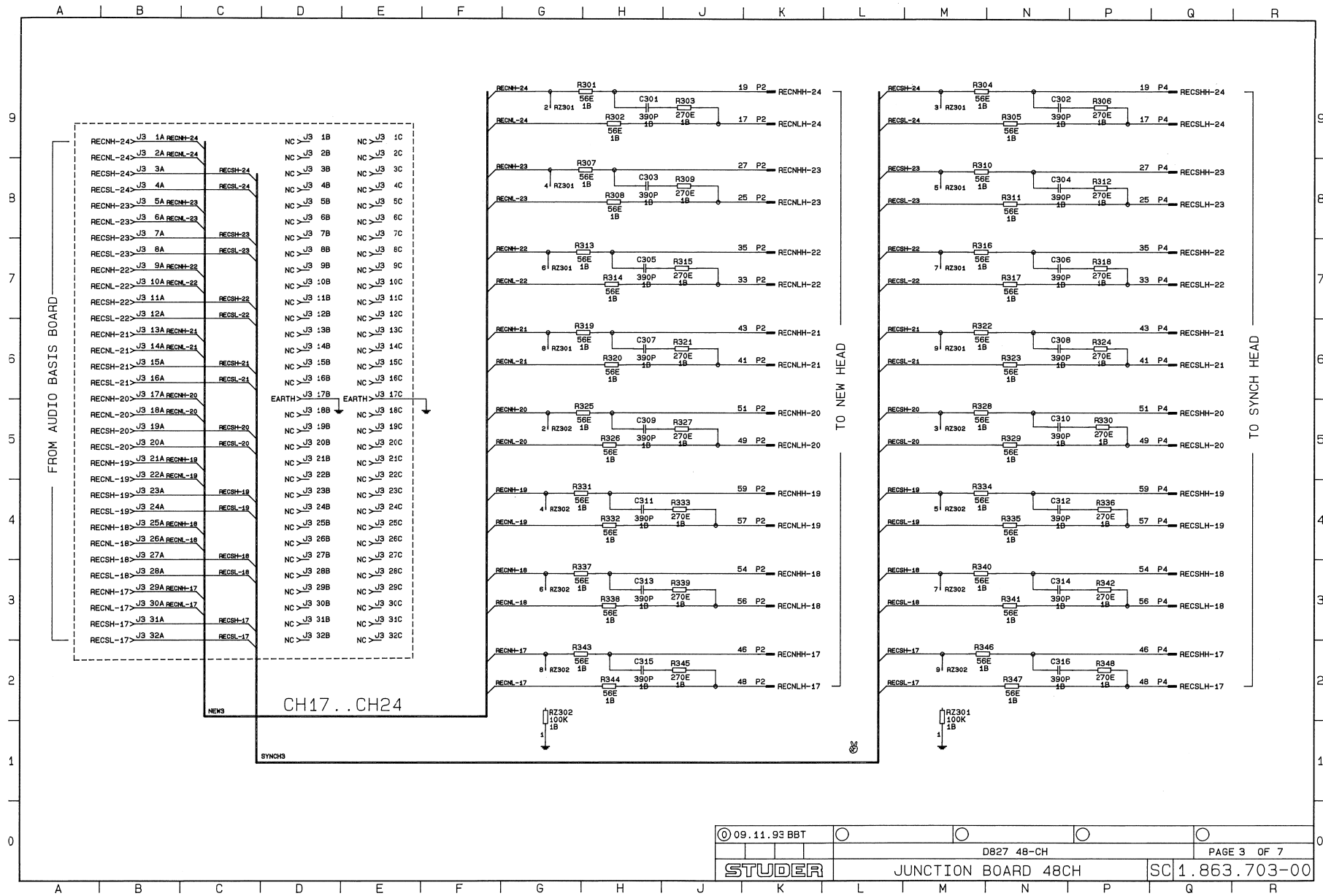


JUNCTION BOARD 48CH 1.863.703.00

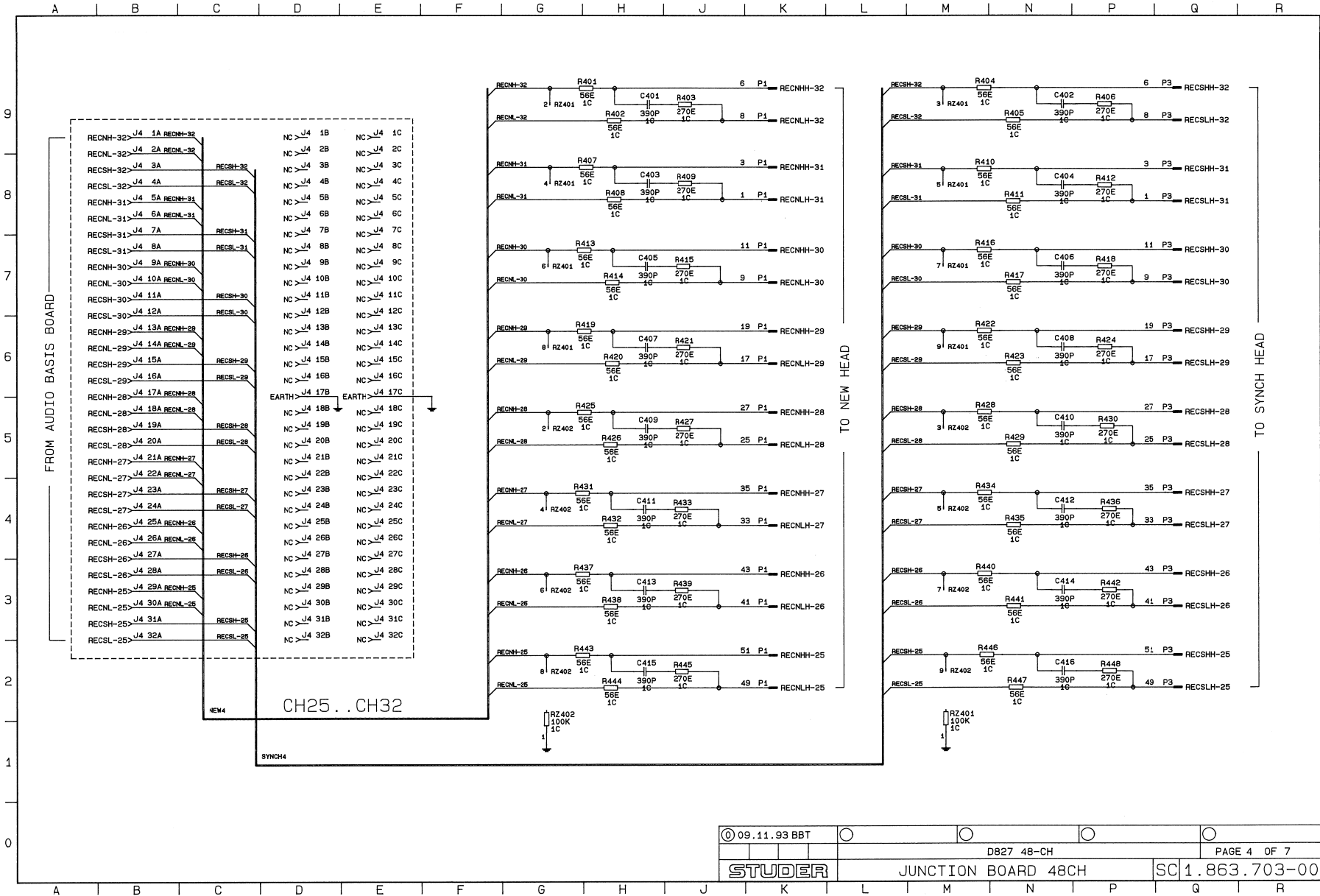


STUDER D827 MCH

JUNCTION BOARD 48CH 1.863.703.00

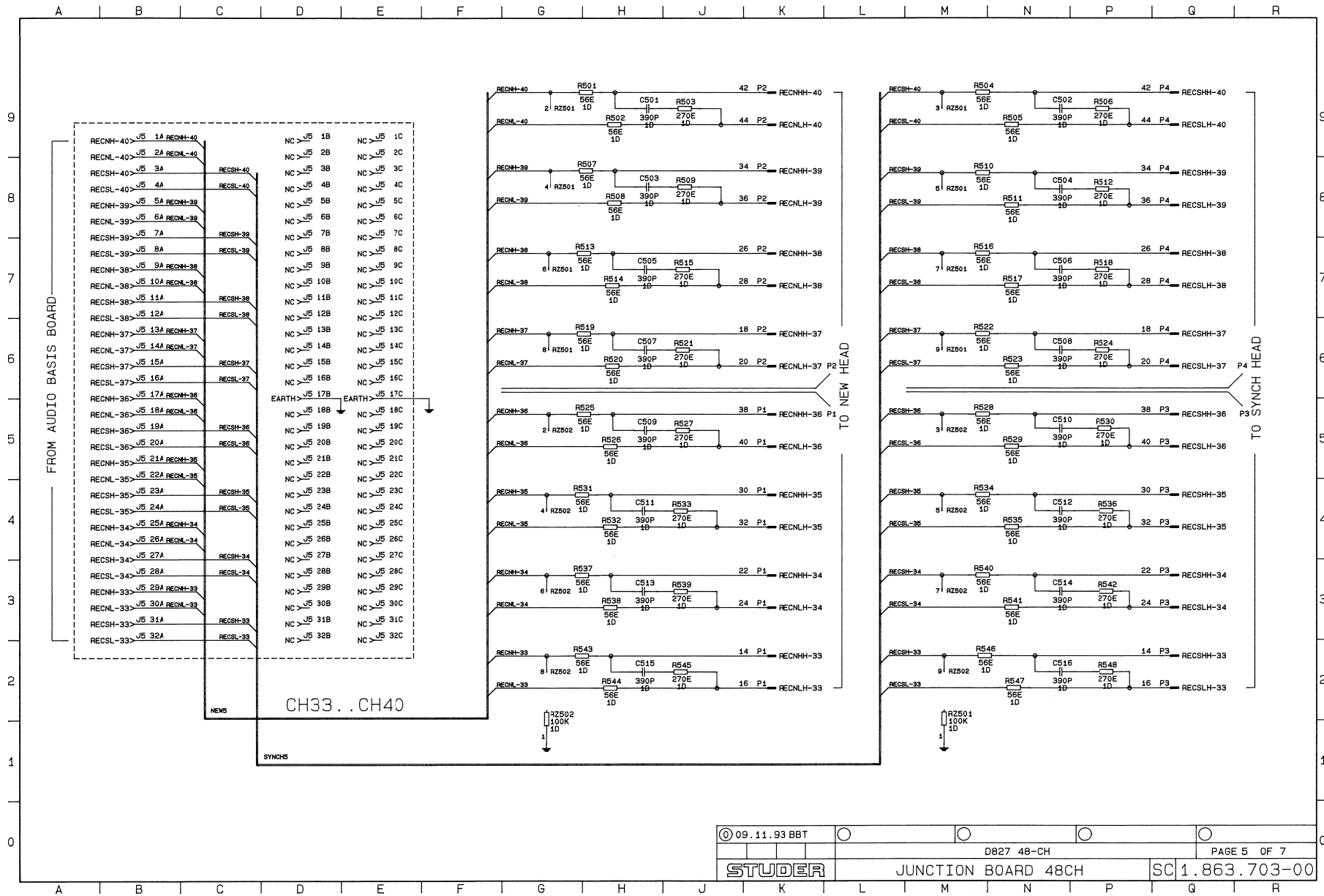


JUNCTION BOARD 48CH 1.863.703.00

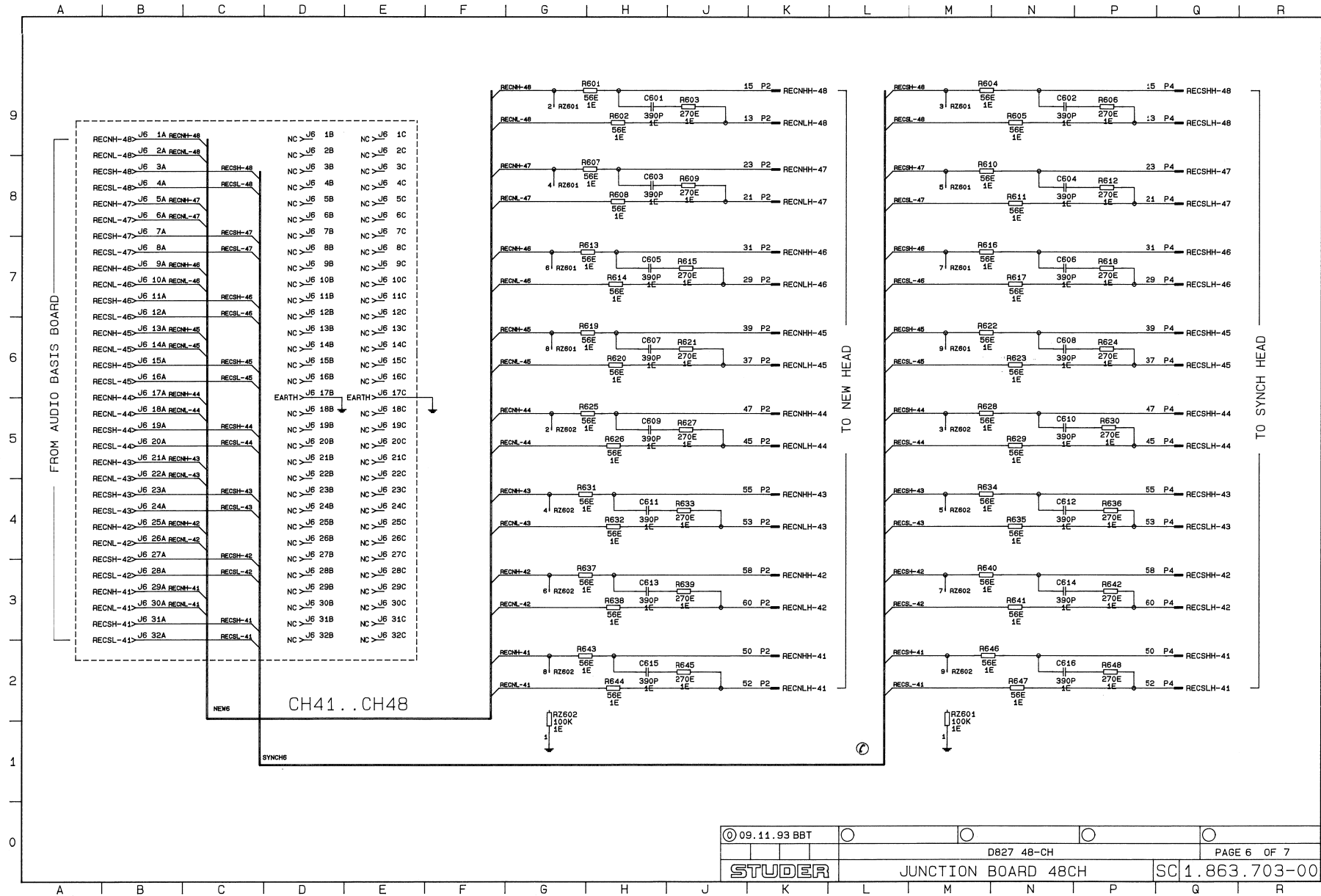


# STUDER D827 MCH

## JUNCTION BOARD 48CH 1.863.703.00

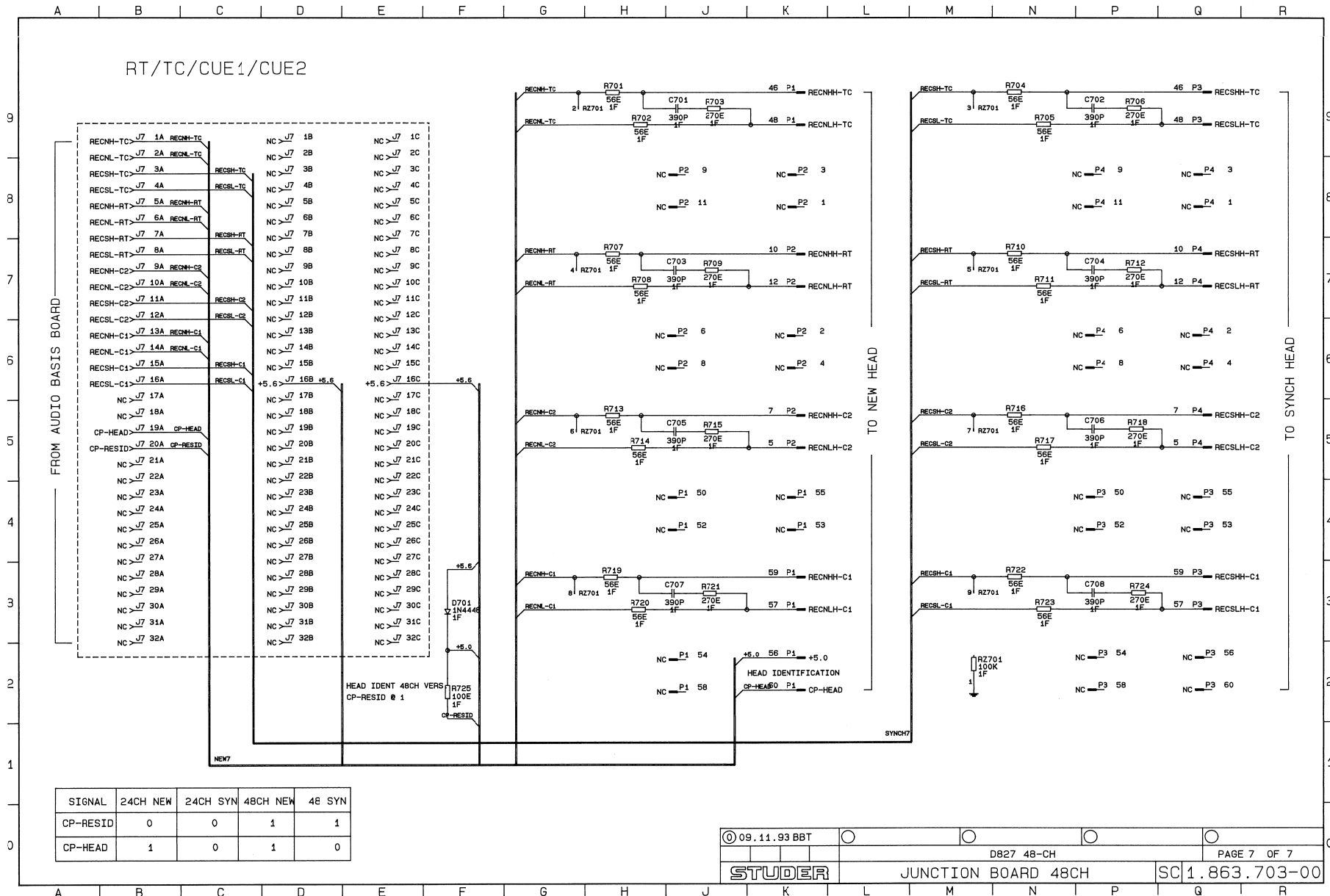


JUNCTION BOARD 48CH 1.863.703.00

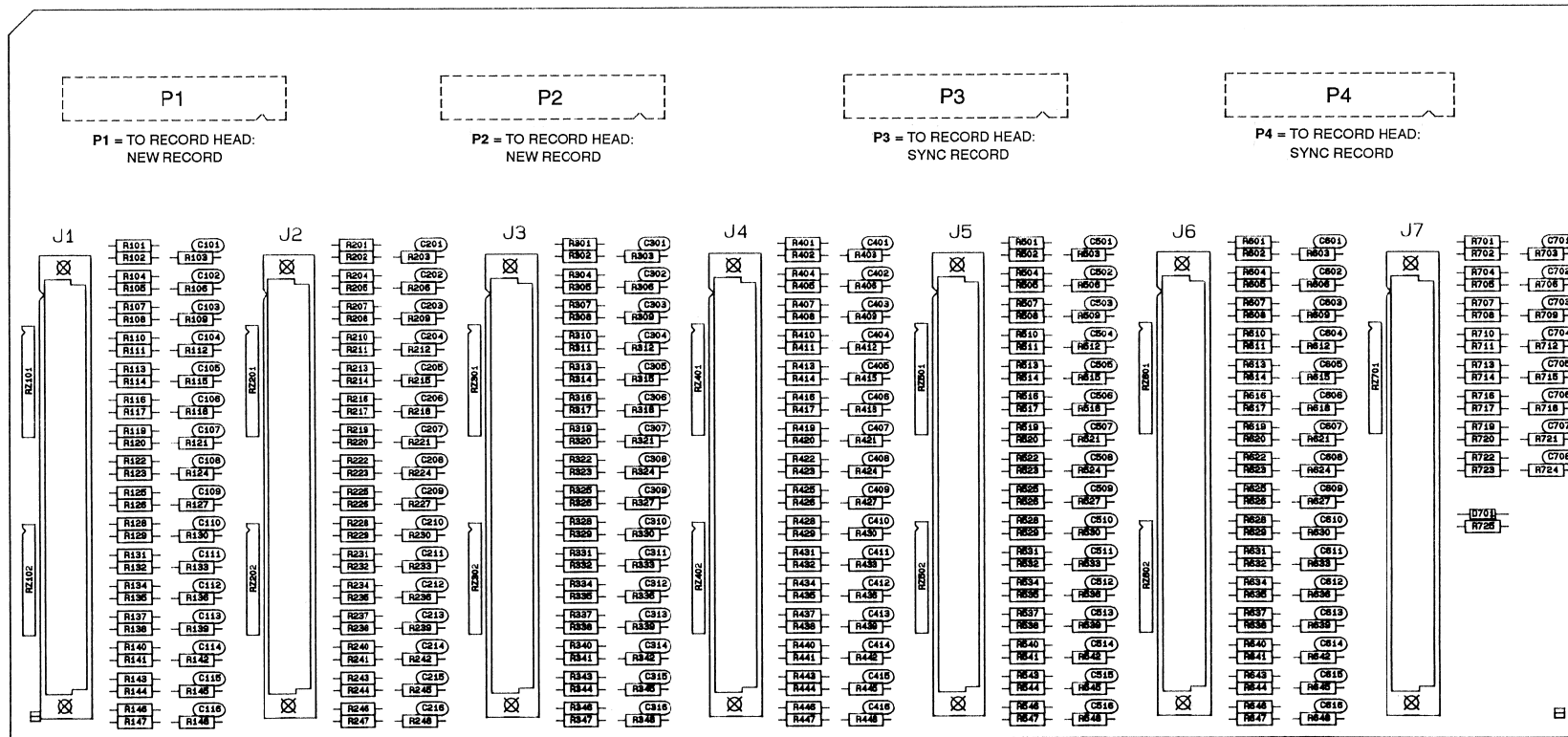


STUDER D827 MCH

JUNCTION BOARD 48CH 1.863.703.00



JUNCTION BOARD 48CH 1.863.703.00









## JUNCTION BOARD 48CH 1.863.703.00

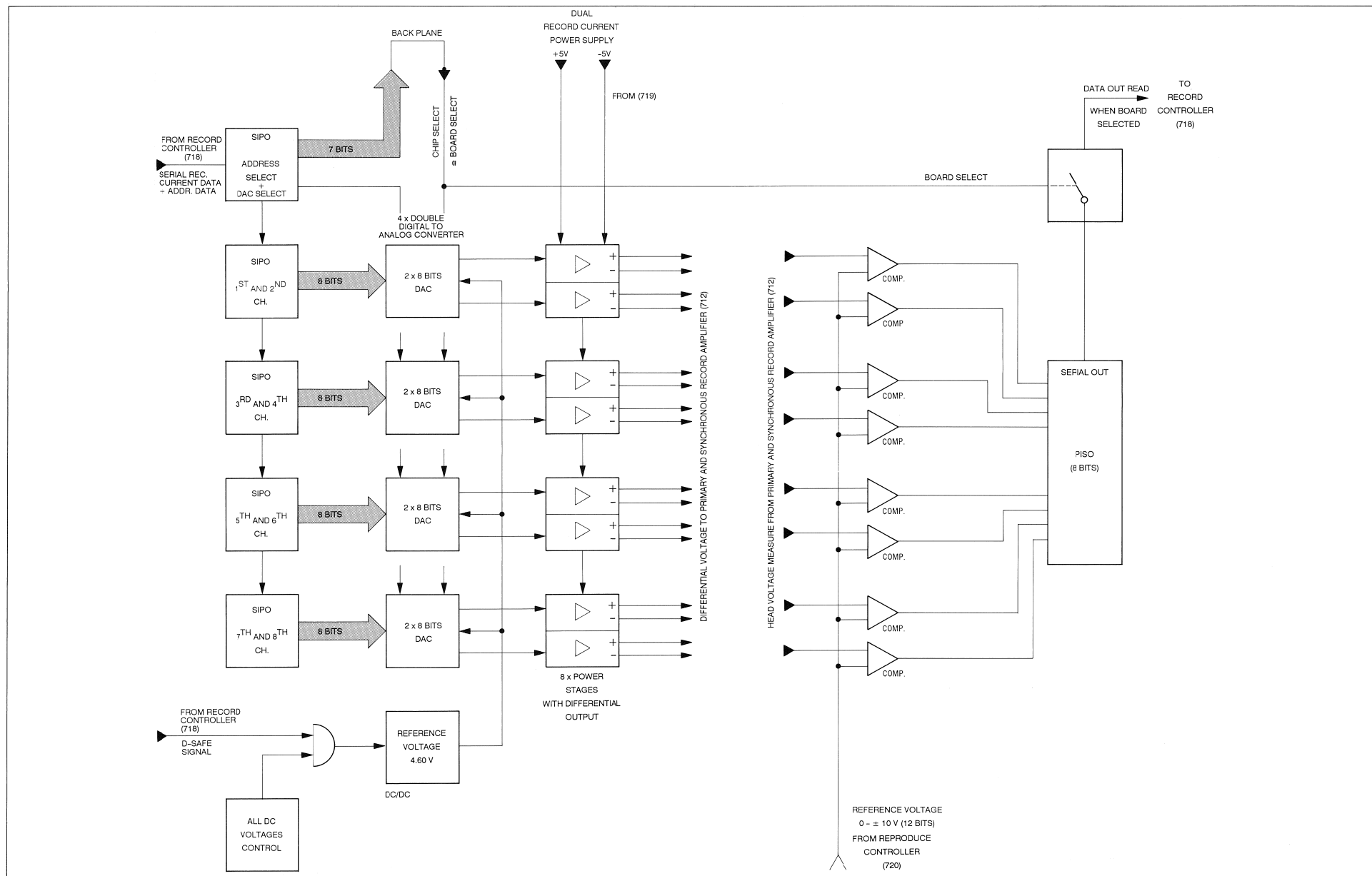
| Ad      | POS.       | REF.No. | DESCRIPTION  | MANUFACTURER    |
|---------|------------|---------|--------------|-----------------|
| R..630  | 57.11.3271 | 270E    | 1 %, 0.6W,   | MF              |
| R..631  | 57.11.3560 | 56E     | 1 %, 0.6W,   | MF              |
| R..632  | 57.11.3560 | 56E     | 1 %, 0.6W,   | MF              |
| R..633  | 57.11.3271 | 270E    | 1 %, 0.6W,   | MF              |
| R..634  | 57.11.3560 | 56E     | 1 %, 0.6W,   | MF              |
| R..635  | 57.11.3560 | 56E     | 1 %, 0.6W,   | MF              |
| R..636  | 57.11.3271 | 270E    | 1 %, 0.6W,   | MF              |
| R..637  | 57.11.3560 | 56E     | 1 %, 0.6W,   | MF              |
| R..638  | 57.11.3560 | 56E     | 1 %, 0.6W,   | MF              |
| R..639  | 57.11.3271 | 270E    | 1 %, 0.6W,   | MF              |
| R..640  | 57.11.3560 | 56E     | 1 %, 0.6W,   | MF              |
| R..641  | 57.11.3560 | 56E     | 1 %, 0.6W,   | MF              |
| R..642  | 57.11.3271 | 270E    | 1 %, 0.6W,   | MF              |
| R..643  | 57.11.3560 | 56E     | 1 %, 0.6W,   | MF              |
| R..644  | 57.11.3560 | 56E     | 1 %, 0.6W,   | MF              |
| R..645  | 57.11.3271 | 270E    | 1 %, 0.6W,   | MF              |
| R..646  | 57.11.3560 | 56E     | 1 %, 0.6W,   | MF              |
| R..647  | 57.11.3560 | 56E     | 1 %, 0.6W,   | MF              |
| R..648  | 57.11.3271 | 270E    | 1 %, 0.6W,   | MF              |
| R..701  | 57.11.3560 | 56E     | 1 %, 0.6W,   | MF              |
| R..702  | 57.11.3560 | 56E     | 1 %, 0.6W,   | MF              |
| R..703  | 57.11.3271 | 270E    | 1 %, 0.6W,   | MF              |
| R..704  | 57.11.3560 | 56E     | 1 %, 0.6W,   | MF              |
| R..705  | 57.11.3560 | 56E     | 1 %, 0.6W,   | MF              |
| R..706  | 57.11.3271 | 270E    | 1 %, 0.6W,   | MF              |
| R..707  | 57.11.3560 | 56E     | 1 %, 0.6W,   | MF              |
| R..708  | 57.11.3560 | 56E     | 1 %, 0.6W,   | MF              |
| R..709  | 57.11.3271 | 270E    | 1 %, 0.6W,   | MF              |
| R..710  | 57.11.3560 | 56E     | 1 %, 0.6W,   | MF              |
| R..711  | 57.11.3560 | 56E     | 1 %, 0.6W,   | MF              |
| R..712  | 57.11.3271 | 270E    | 1 %, 0.6W,   | MF              |
| R..713  | 57.11.3560 | 56E     | 1 %, 0.6W,   | MF              |
| R..714  | 57.11.3560 | 56E     | 1 %, 0.6W,   | MF              |
| R..715  | 57.11.3271 | 270E    | 1 %, 0.6W,   | MF              |
| R..716  | 57.11.3560 | 56E     | 1 %, 0.6W,   | MF              |
| R..717  | 57.11.3560 | 56E     | 1 %, 0.6W,   | MF              |
| R..718  | 57.11.3271 | 270E    | 1 %, 0.6W,   | MF              |
| R..719  | 57.11.3560 | 56E     | 1 %, 0.6W,   | MF              |
| R..720  | 57.11.3560 | 56E     | 1 %, 0.6W,   | MF              |
| R..721  | 57.11.3271 | 270E    | 1 %, 0.6W,   | MF              |
| R..722  | 57.11.3560 | 56E     | 1 %, 0.6W,   | MF              |
| R..723  | 57.11.3560 | 56E     | 1 %, 0.6W,   | MF              |
| R..724  | 57.11.3271 | 270E    | 1 %, 0.6W,   | MF              |
| R..725  | 57.11.3101 | 100E    | 1 %, 0.6W,   | MF              |
| RZ..101 | 57.88.4104 | 100k    | 2 %, 0.125W, | SIP09, 8 * 100K |
| RZ..102 | 57.88.4104 | 100k    | 2 %, 0.125W, | SIP09, 8 * 100K |
| RZ..201 | 57.88.4104 | 100k    | 2 %, 0.125W, | SIP09, 8 * 100K |
| RZ..202 | 57.88.4104 | 100k    | 2 %, 0.125W, | SIP09, 8 * 100K |
| RZ..301 | 57.88.4104 | 100k    | 2 %, 0.125W, | SIP09, 8 * 100K |
| RZ..302 | 57.88.4104 | 100k    | 2 %, 0.125W, | SIP09, 8 * 100K |
| RZ..401 | 57.88.4104 | 100k    | 2 %, 0.125W, | SIP09, 8 * 100K |
| RZ..402 | 57.88.4104 | 100k    | 2 %, 0.125W, | SIP09, 8 * 100K |
| RZ..501 | 57.88.4104 | 100k    | 2 %, 0.125W, | SIP09, 8 * 100K |
| RZ..502 | 57.88.4104 | 100k    | 2 %, 0.125W, | SIP09, 8 * 100K |
| RZ..601 | 57.88.4104 | 100k    | 2 %, 0.125W, | SIP09, 8 * 100K |
| RZ..602 | 57.88.4104 | 100k    | 2 %, 0.125W, | SIP09, 8 * 100K |
| RZ..701 | 57.88.4104 | 100k    | 2 %, 0.125W, | SIP09, 8 * 100K |

1.863.703-00 JUNCTION BOARD 48CH

BBT93/11/0900

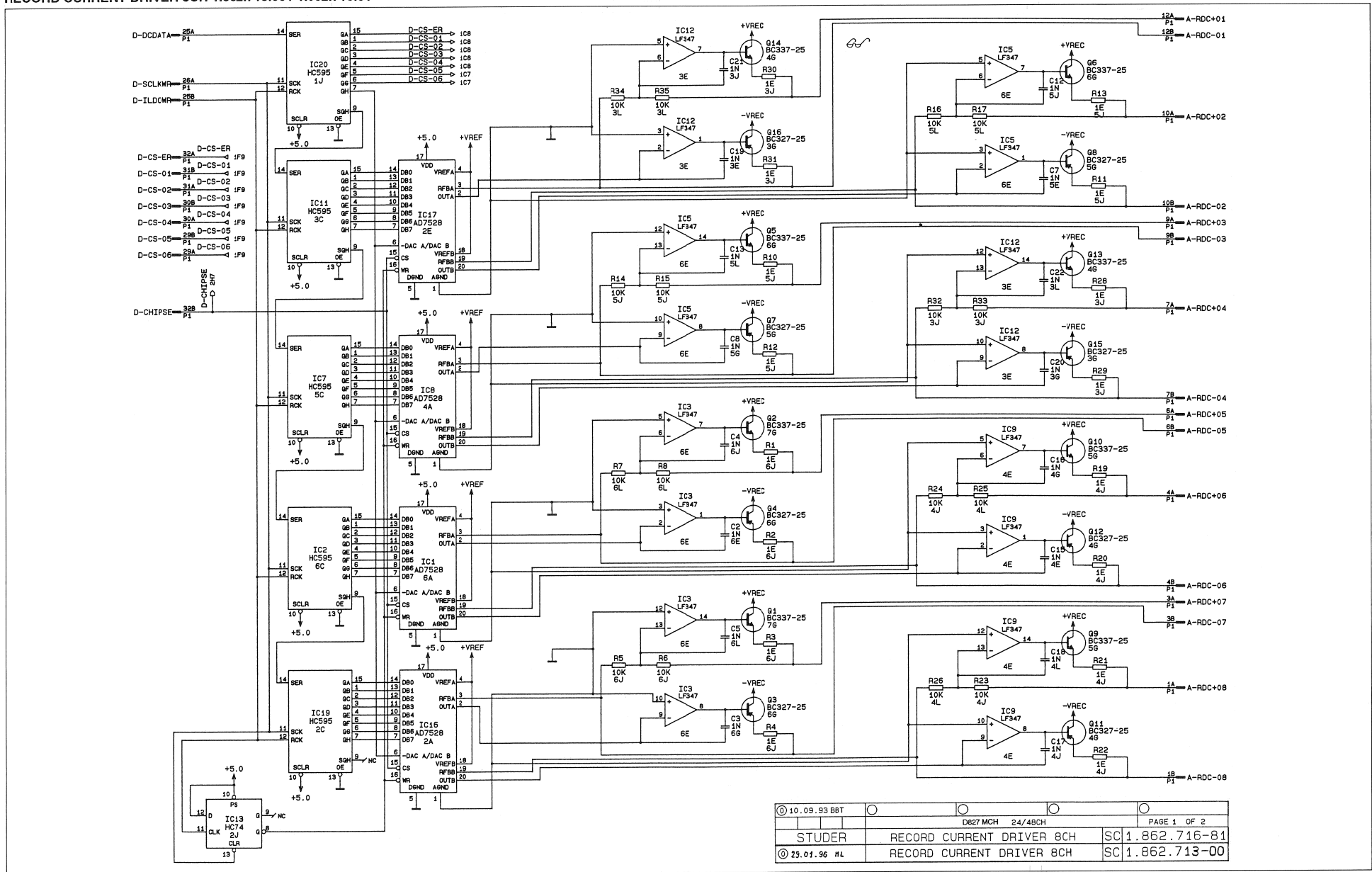
**BLOCK DIAGRAM**

- Record Current Driver 8CH 1.862.713 / 1.862.716



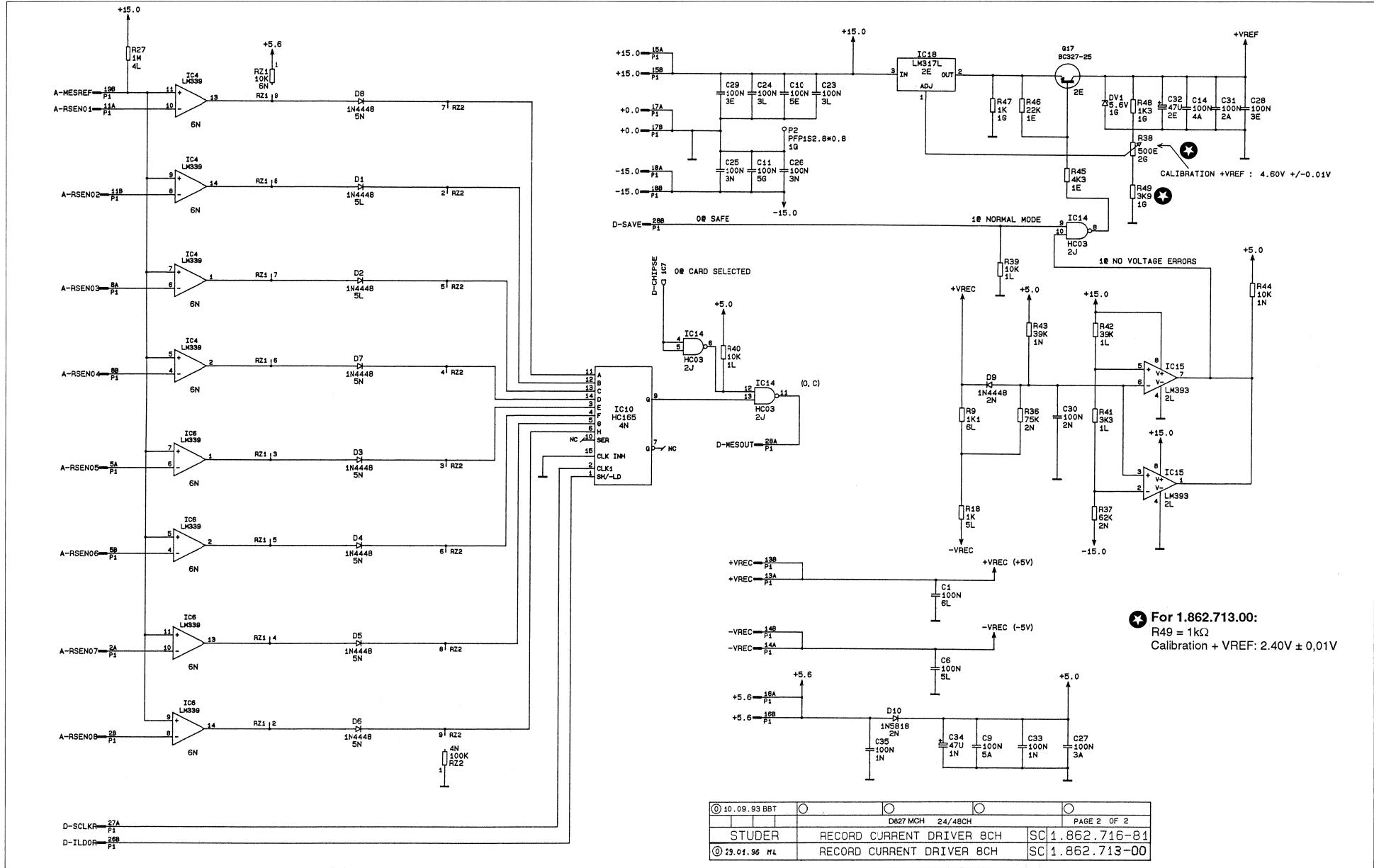
STUDER D827 MCH

RECORD CURRENT DRIVER 8CH 1.862.713.00 / 1.862.716.81



|              |                           |                 |
|--------------|---------------------------|-----------------|
| 10.09.93 BBT | D827 MCH 24/48CH          | PAGE 1 OF 2     |
| STUDER       | RECORD CURRENT DRIVER 8CH | SC 1.862.716-81 |
| 25.01.96 HL  | RECORD CURRENT DRIVER 8CH | SC 1.862.713-00 |

RECORD CURRENT DRIVER 8CH 1.862.713.00 / 1.862.716.81

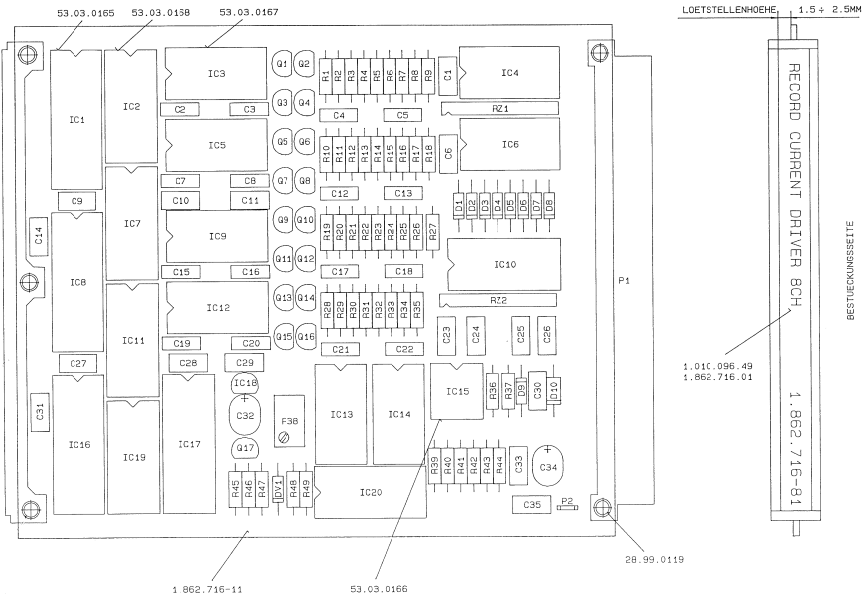


|                |                           |                |
|----------------|---------------------------|----------------|
| © 10.09.93 BBT | D827 MCH 24/48CH          | PAGE 2 OF 2    |
| STUDER         | RECORD CURRENT DRIVER 8CH | SC1.862.716-81 |
| © 23.01.96 HL  | RECORD CURRENT DRIVER 8CH | SC1.862.713-00 |

STUDER D827 MCH

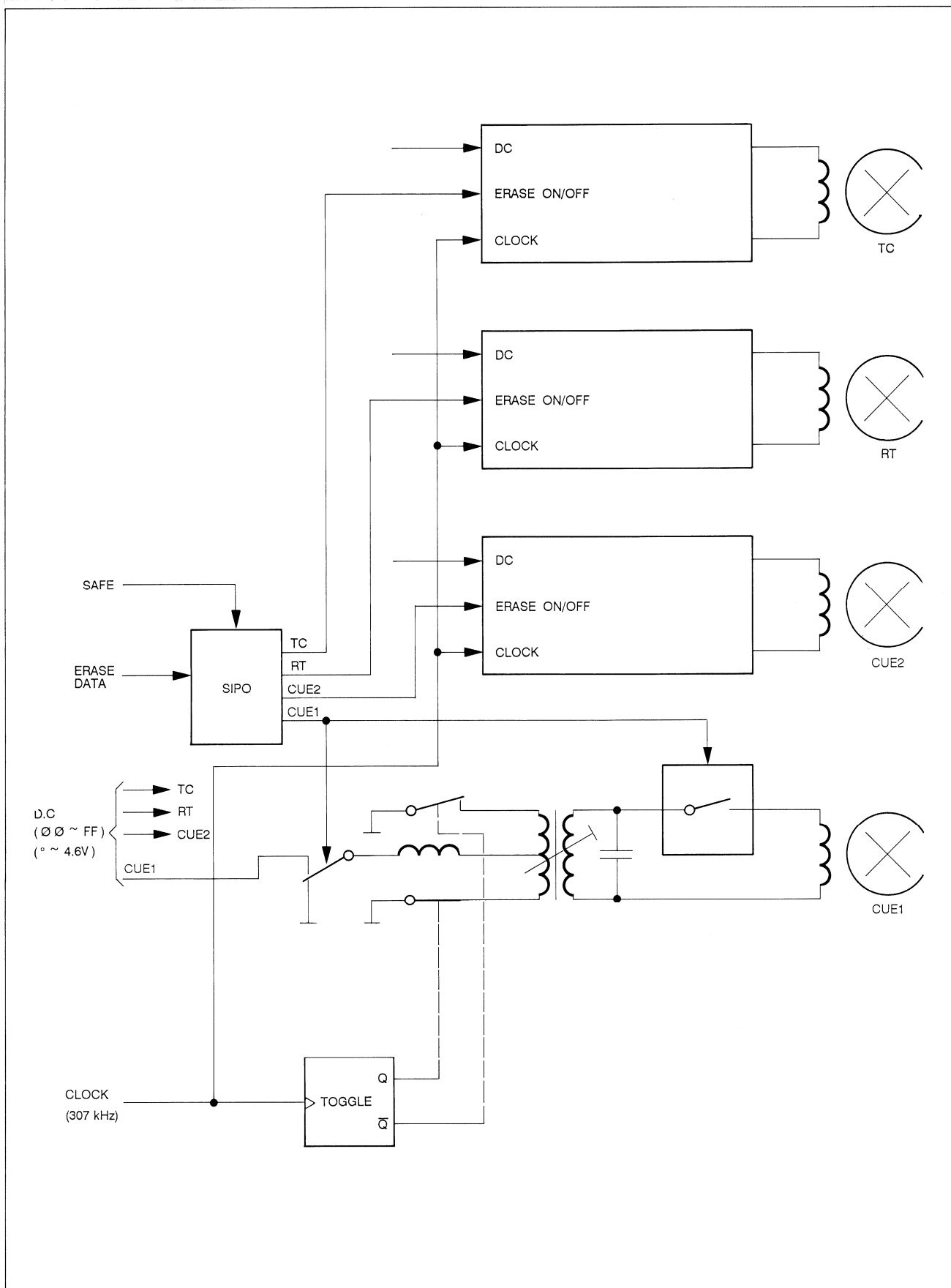


RECORD CURRENT DRIVER 8CH 1.862.713.00 / 1.862.716.81



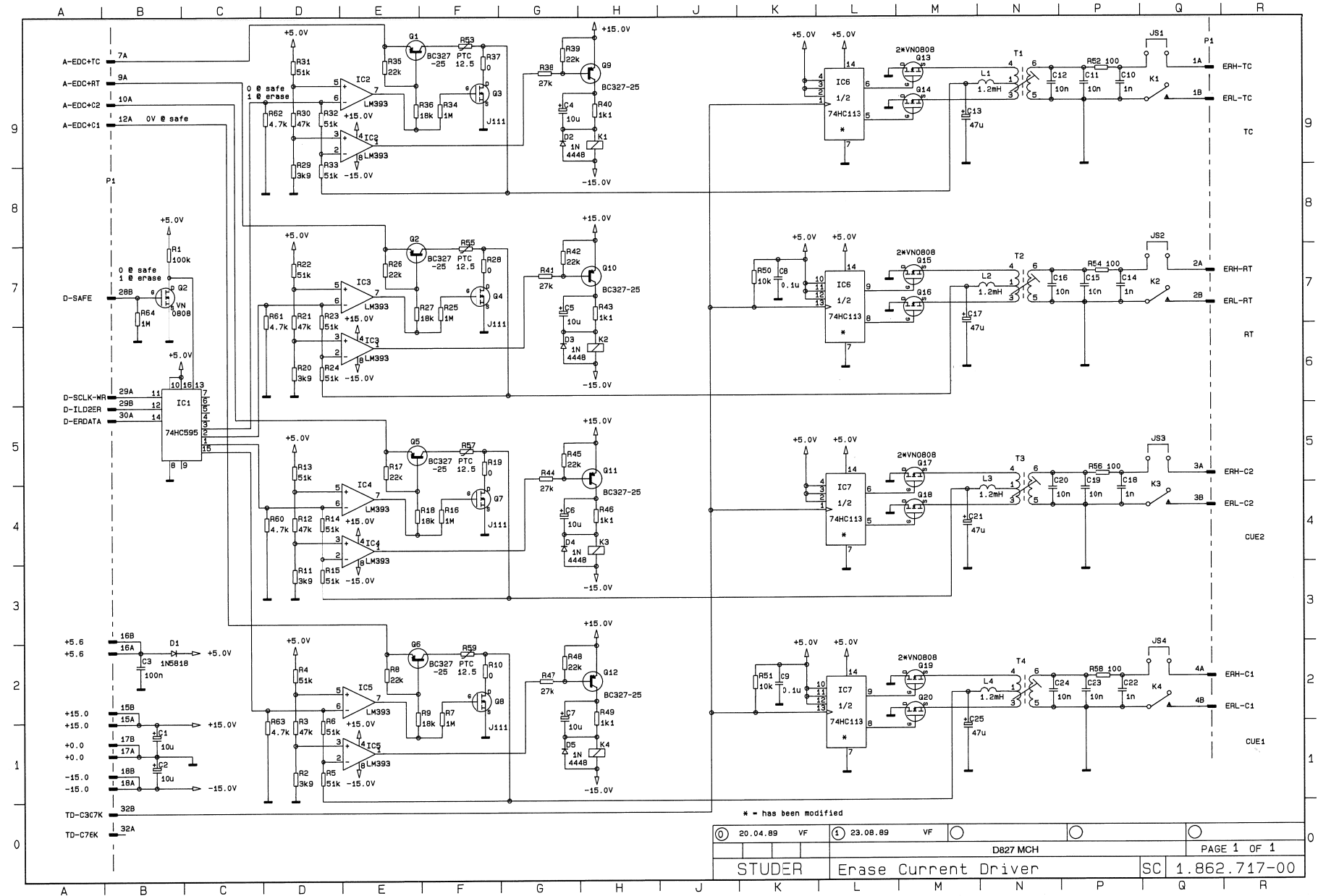
| Ad   | POS. | REF.No.    | DESCRIPTION | MANUFACTURER            | Ad | POS. | REF.No.    | DESCRIPTION                               | MANUFACTURER     |
|--|------|------------|-------------|-------------------------|----|------|------------|---|------------------|
| C  | 1    | 59.06.0104 | 100 nF      | 104, 63V, PETP          | R  | 11   | 57.11.3109 | 1 Ohm 5%                                  |                  |
| C  | 2    | 59.06.0102 | 1 nF        | 104, 63V, PETP          | R  | 12   | 57.11.3109 | 1 Ohm 5%                                  |                  |
| C  | 3    | 59.06.0102 | 1 nF        | 104, 63V, PETP          | R  | 13   | 57.11.3109 | 1 Ohm 5%                                  |                  |
| C  | 4    | 59.06.0102 | 1 nF        | 104, 63V, PETP          | R  | 14   | 57.11.3103 | 10 kOhm 2%                                |                  |
| C  | 5    | 59.06.0102 | 1 nF        | 104, 63V, PETP          | R  | 15   | 57.11.3103 | 10 kOhm 2%                                |                  |
| C  | 6    | 59.06.0104 | 100 nF      | 104, 63V, PETP          | R  | 16   | 57.11.3103 | 10 kOhm 2%                                |                  |
| C  | 7    | 59.06.0102 | 1 nF        | 104, 63V, PETP          | R  | 17   | 57.11.3103 | 10 kOhm 2%                                |                  |
| C  | 8    | 59.06.0102 | 1 nF        | 104, 63V, PETP          | R  | 18   | 57.11.3102 | 1 kOhm 2%                                 |                  |
| C  | 9    | 59.06.0104 | 100 nF      | 104, 63V, PETP          | R  | 19   | 57.11.3109 | 1 Ohm 5%                                  |                  |
| C  | 10   | 59.06.0104 | 100 nF      | 104, 63V, PETP          | R  | 20   | 57.11.3109 | 1 Ohm 5%                                  |                  |
| C  | 11   | 59.06.0104 | 100 nF      | 104, 63V, PETP          | R  | 21   | 57.11.3109 | 1 Ohm 5%                                  |                  |
| C  | 12   | 59.06.0102 | 1 nF        | 104, 63V, PETP          | R  | 22   | 57.11.3109 | 1 Ohm 5%                                  |                  |
| C  | 13   | 59.06.0102 | 1 nF        | 104, 63V, PETP          | R  | 23   | 57.11.3103 | 10 kOhm 2%                                |                  |
| C  | 14   | 59.06.0104 | 100 nF      | 104, 63V, PETP          | R  | 24   | 57.11.3103 | 10 kOhm 2%                                |                  |
| C  | 15   | 59.06.0102 | 1 nF        | 104, 63V, PETP          | R  | 25   | 57.11.3103 | 10 kOhm 2%                                |                  |
| C  | 16   | 59.06.0102 | 1 nF        | 104, 63V, PETP          | R  | 26   | 57.11.3103 | 10 kOhm 2%                                |                  |
| C  | 17   | 59.06.0102 | 1 nF        | 104, 63V, PETP          | R  | 27   | 57.11.3105 | 1 MOhm 5%                                 |                  |
| C  | 18   | 59.06.0102 | 1 nF        | 104, 63V, PETP          | R  | 28   | 57.11.3109 | 1 Ohm 5%                                  |                  |
| C  | 19   | 59.06.0102 | 1 nF        | 104, 63V, PETP          | R  | 29   | 57.11.3109 | 1 Ohm 5%                                  |                  |
| C  | 20   | 59.06.0102 | 1 nF        | 104, 63V, PETP          | R  | 30   | 57.11.3109 | 1 Ohm 5%                                  |                  |
| C  | 21   | 59.06.0102 | 1 nF        | 104, 63V, PETP          | R  | 31   | 57.11.3109 | 1 Ohm 5%                                  |                  |
| C  | 22   | 59.06.0102 | 1 nF        | 104, 63V, PETP          | R  | 32   | 57.11.3103 | 10 kOhm 2%                                |                  |
| C  | 23   | 59.06.0104 | 100 nF      | 104, 63V, PETP          | R  | 33   | 57.11.3103 | 10 kOhm 2%                                |                  |
| C  | 24   | 00.00.0000 | Not used    |                         | R  | 34   | 57.11.3103 | 10 kOhm 2%                                |                  |
| C  | 25   | 59.06.0104 | 100 nF      | 104, 63V, PETP          | R  | 35   | 57.11.3103 | 10 kOhm 2%                                |                  |
| C  | 26   | 00.00.0000 | Not used    |                         | R  | 36   | 57.11.3753 | 75 kOhm 2%                                |                  |
| C  | 27   | 59.06.0104 | 100 nF      | 104, 63V, PETP          | R  | 37   | 57.11.3623 | 62 kOhm 2%                                |                  |
| C  | 28   | 59.06.0104 | 100 nF      | 104, 63V, PETP          | R  | 38   | 58.05.1501 | 500 Ohm Potentiometer 22-turn, 5%, linear |                  |
| C  | 29   | 59.06.0104 | 100 nF      | 104, 63V, PETP          | R  | 39   | 57.11.3103 | 10 kOhm 2%                                |                  |
| C  | 30   | 59.06.0104 | 100 nF      | 104, 63V, PETP          | R  | 40   | 57.11.3103 | 10 kOhm 2%                                |                  |
| C  | 31   | 59.06.0104 | 100 nF      | 104, 63V, PETP          | R  | 41   | 57.11.3332 | 3.3 kOhm 2%                               |                  |
| C  | 32   | 59.26.0470 | 47 uF       | 204, 6.3V, SAL          | R  | 42   | 57.11.3393 | 39 kOhm 2%                                |                  |
| C  | 33   | 59.06.0104 | 100 nF      | 104, 63V, PETP          | R  | 43   | 57.11.3393 | 39 kOhm 2%                                |                  |
| C  | 34   | 59.26.0470 | 47 uF       | 204, 6.3V, SAL          | R  | 44   | 57.11.3103 | 10 kOhm 2%                                |                  |
| C  | 35   | 59.06.0104 | 100 nF      | 104, 63V, PETP          | R  | 45   | 57.11.3432 | 4.3 kOhm 2%                               |                  |
| D  | 1    | 50.04.0125 | 1N 4448     | Fc,ITT,Ph,Ses,Tf        | R  | 46   | 57.11.3223 | 22 kOhm 2%                                |                  |
| D  | 2    | 50.04.0125 | 1N 4448     | Fc,ITT,Ph,Ses,Tf        | R  | 47   | 57.11.3102 | 1 kOhm 2%                                 |                  |
| D  | 3    | 50.04.0125 | 1N 4448     | Fc,ITT,Ph,Ses,Tf        | R  | 48   | 57.11.3132 | 1.3 kOhm 2%                               |                  |
| D  | 4    | 50.04.0125 | 1N 4448     | Fc,ITT,Ph,Ses,Tf        | R  | 49   | 57.11.3392 | 3.9 kOhm 2%                               | for 1.862.716.81 |
| D  | 5    | 50.04.0125 | 1N 4448     | Fc,ITT,Ph,Ses,Tf        | R  | 49   | 57.11.3102 | 1 kOhm 2%                                 | for 1.862.713.00 |
| D  | 6    | 50.04.0125 | 1N 4448     | Fc,ITT,Ph,Ses,Tf        | RZ | 1    | 57.88.4103 | 8 * 10 k                                  | see note 2       |
| D  | 7    | 50.04.0125 | 1N 4448     | Fc,ITT,Ph,Ses,Tf        | RZ | 2    | 57.88.4104 | 8 * 100 k                                 | see note 1       |
| D  | 8    | 50.04.0125 | 1N 4448     | Fc,ITT,Ph,Ses,Tf        |    |      |            |   |                  |
| D  | 9    | 50.04.0532 | 1N 5819     | 1N 5819                 |    |      |            |   |                  |
| DV   | 1    | 50.04.1504 | Z 5,6V      | ITT,Mot,Ph,Tf,Th        |    |      |            |   |                  |
| IC   | 1    | 50.07.0026 | AD 7528     | MP 7528                 |    |      |            |   |                  |
| IC   | 2    | 50.17.1595 | 74 NC 595   | NS,SGS,TI               |    |      |            |   |                  |
| IC   | 3    | 50.09.0104 | LF 347 N    | NS,Th                   |    |      |            |   |                  |
| IC   | 4    | 50.11.0104 | LM 339      | Fc,Mot,NS,Th            |    |      |            |   |                  |
| IC   | 5    | 50.09.0104 | LF 347 N    | NS,Th                   |    |      |            |   |                  |
| IC   | 6    | 50.11.0104 | LM 339      | Fc,Mot,NS,Th            |    |      |            |   |                  |
| IC   | 7    | 50.17.1595 | 74 NC 595   | NS,SGS,TI               |    |      |            |   |                  |
| IC   | 8    | 50.07.0026 | AD 7528     | MP 7528                 |    |      |            |   |                  |
| IC   | 9    | 50.09.0104 | LF 347 N    | NS,Th                   |    |      |            |   |                  |
| IC   | 10   | 50.17.1165 | 74 NC 165   | NS,Ph,RCA,TI            |    |      |            |   |                  |
| IC   | 11   | 50.17.1595 | 74 NC 595   | NS,SGS,TI               |    |      |            |   |                  |
| IC   | 12   | 50.09.0104 | LF 347 N    | NS,Th                   |    |      |            |   |                  |
| IC   | 13   | 50.17.1074 | 74 NC 74    | Mot,NS,Ph,RCA,SGS,TI,To |    |      |            |   |                  |
| IC   | 14   | 50.17.1003 | 74 NC 63    | Mot,NS,TI               |    |      |            |   |                  |
| IC   | 15   | 50.05.0283 | LM 393 P    | LM 393 N, LM 393 DP     |    |      |            |   |                  |
| IC   | 16   | 50.07.0026 | AD 7528     | MP 7528                 |    |      |            |   |                  |
| IC   | 17   | 50.07.0026 | AD 7528     | MP 7528                 |    |      |            |   |                  |
| IC   | 18   | 50.10.0108 | LM 317 LZ   | TI,NS,Th                |    |      |            |   |                  |
| IC   | 19   | 50.17.1595 | 74 NC 595   | NS,SGS,TI               |    |      |            |   |                  |
| IC   | 20   | 50.17.1595 | 74 NC 595   | NS,SGS,TI               |    |      |            |   |                  |
| P  | 1    | 54.11.2004 | Connector   | 2*32 Euro Print         |    |      |            |   |                  |
| P  | 2    | 00.00.0000 | GND PIN     | NOT USED                |    |      |            |   |                  |
| Q  | 1    | 50.43.0340 | BC 337-25   | ITT,NS,Ph,Sie           |    |      |            |   |                  |
| Q  | 2    | 50.43.0340 | BC 337-25   | ITT,NS,Ph,Sie           |    |      |            |   |                  |
| Q  | 3    | 50.43.0351 | BC 327-25   | ITT,Ph,Sie              |    |      |            |   |                  |
| Q  | 4    | 50.43.0351 | BC 327-25   | ITT,Ph,Sie              |    |      |            |   |                  |
| Q  | 5    | 50.43.0340 | BC 337-25   | ITT,NS,Ph,Sie           |    |      |            |   |                  |
| Q  | 6    | 50.43.0340 | BC 337-25   | ITT,NS,Ph,Sie           |    |      |            |   |                  |
| Q  | 7    | 50.43.0351 | BC 327-25   | ITT,Ph,Sie              |    |      |            |   |                  |
| Q  | 8    | 50.43.0351 | BC 327-25   | ITT,Ph,Sie              |    |      |            |   |                  |
| Q  | 9    | 50.43.0340 | BC 337-25   | ITT,NS,Ph,Sie           |    |      |            |   |                  |
| Q  | 10   | 50.43.0340 | BC 337-25   | ITT,NS,Ph,Sie           |    |      |            |   |                  |
| Q  | 11   | 50.43.0351 | BC 327-25   | ITT,Ph,Sie              |    |      |            |   |                  |
| Q  | 12   | 50.43.0351 | BC 327-25   | ITT,Ph,Sie              |    |      |            |   |                  |
| Q  | 13   | 50.43.0340 | BC 337-25   | ITT,NS,Ph,Sie           |    |      |            |   |                  |
| Q  | 14   | 50.43.0340 | BC 337-25   | ITT,NS,Ph,Sie           |    |      |            |   |                  |
| Q  | 15   | 50.43.0351 | BC 327-25   | ITT,Ph,Sie              |    |      |            |   |                  |
| Q  | 16   | 50.43.0351 | BC 327-25   | ITT,Ph,Sie              |    |      |            |   |                  |
| Q  | 17   | 50.43.0351 | BC 327-25   | ITT,Ph,Sie              |    |      |            |   |                  |
| R  | 1    | 57.11.3109 | 1 Ohm 5%    |                         |    |      |            |   |                  |
| R  | 2    | 57.11.3109 | 1 Ohm 5%    |                         |    |      |            |   |                  |
| R  | 3    | 57.11.3109 | 1 Ohm 5%    |                         |    |      |            |   |                  |
| R  | 4    | 57.11.3109 | 1 Ohm 5%    |                         |    |      |            |   |                  |
| R  | 5    | 57.11.3103 | 10 kOhm 2%  |                         |    |      |            |   |                  |
| R  | 6    | 57.11.3103 | 10 kOhm 2%  |                         |    |      |            |   |                  |
| R  | 7    | 57.11.3103 | 10 kOhm 2%  |                         |    |      |            |   |                  |
| R  | 8    | 57.11.3103 | 10 kOhm 2%  |                         |    |      |            |   |                  |
| R  | 9    | 57.11.3112 | 1.1 kOhm 2% |                         |    |      |            |   |                  |
| R  | 10   | 57.11.3109 | 1 Ohm 5%    |                         |    |      |            |   |                  |
| <p>Note 1 - Network 8 * 100 kOhm, 5%, single line:<br/>                 Allen Bradley nr. 709 A 104 or 909 A 104<br/>                 Beckmann nr. L - 09 - 1 - R 100 K<br/>                 Bourns nr. 4609 M - 101 - 104<br/>                 Dale nr. 4609 X - 101 - 104<br/>                 Dale nr. CSC 09 A 01 - 104 G<br/>                 Sprague nr. 256 C J 104 X2 PD<br/>                 Tama nr. MRG C 09 X 100 kOhm G<br/>                 Vitron nr. F9E 100 kOhm 2%<br/>                 or R86 100 kOhm 2%</p> |      |            |             |                         |    |      |            |   |                  |
| <p>Note 2 - Network 8 * 10 kOhm, 5%, single line:<br/>                 Allen Bradley nr. 909 A 103<br/>                 Beckmann nr. L - 09 - 1 - R 100 K<br/>                 Bourns nr. 4609 M - 101 - 103<br/>                 Dale nr. CSC 09 A 01 - 103 G<br/>                 Sprague nr. 256 C J 103 X2 PD<br/>                 Tama nr. MRG C 09 X 10 kOhm G<br/>                 Vitron nr. F9E 10 kOhm 2%</p>  |      |            |             |                         |    |      |            |   |                  |
| <p>Sal=Solid aluminium<br/>                 PETP=Polyester Film</p>  |      |            |             |                         |    |      |            |   |                  |
| <p>MANUFACTURER: AD=Analogue Devices Inc., Fc=Fairchild, ITT=Intermetall,<br/>                 MPS=Micro Power Systems, Mot=Motorola, NS=National Semi.,<br/>                 Ph=Philips, RCA=RCA Corporation of America, Ses=Secossem,<br/>                 SGS=SGS/Ates, Sie=Siemens, Tf=Telefunken, Th=Thomson CSF,<br/>                 TI=Texas Instruments, To=Toshiba.</p>  |      |            |             |                         |    |      |            |   |                  |
| <p>1.862.716.81 RECORD CURRENT DRIVER BBT93/09/1000</p>  |      |            |             |                         |    |      |            |   |                  |
| <p>END</p>   |      |            |             |                         |    |      |            |   |                  |

**BLOCK DIAGRAM**  
Erase Current Driver 1.862.717





ERASE CURRENT DRIVER 1.862.717.00







ERASE CURRENT DRIVER 1.862.717.00

| Ad    | POS. | REF.No.      | DESCRIPTION           | MANUFACTURER             | Ad               | POS. | REF.No.    | DESCRIPTION | MANUFACTURER |
|-------|------|--------------|-----------------------|--------------------------|------------------|------|------------|-------------|--------------|
| C...  | 1    | 59.26.5100   | 10 uF 20%, 25V, SaI   |                          | R...             | 17   | 57.11.3223 | 22 kOhm 1%  |              |
| C...  | 2    | 59.26.5100   | 10 uF 20%, 25V, SaI   |                          | R...             | 18   | 57.11.3183 | 18 kOhm 1%  |              |
| C...  | 3    | 59.06.0104   | 100 nF 10%, 63V, PETP |                          | R...             | 19   | 57.11.3000 | 0 Ohm       |              |
| C...  | 4    | 59.26.5100   | 10 uF 20%, 25V, SaI   |                          | R...             | 20   | 57.11.3392 | 3.9 kOhm 1% |              |
| C...  | 5    | 59.26.5100   | 10 uF 20%, 25V, SaI   |                          |                  |      |            |             |              |
| C...  | 6    | 59.26.5100   | 10 uF 20%, 25V, SaI   |                          | R...             | 21   | 57.11.3473 | 47 kOhm 1%  |              |
| C...  | 7    | 59.26.5100   | 10 uF 20%, 25V, SaI   |                          | R...             | 22   | 57.11.3513 | 51 kOhm 1%  |              |
| C...  | 8    | 59.06.0104   | 100 nF 10%, 63V, PETP |                          | R...             | 23   | 57.11.3513 | 51 kOhm 1%  |              |
| C...  | 9    | 59.06.0104   | 100 nF 10%, 63V, PETP |                          | R...             | 24   | 57.11.3513 | 51 kOhm 1%  |              |
| C...  | 10   | 59.05.2102   | 1 nF 2.5%, 63V, PP    |                          | R...             | 25   | 57.11.3105 | 1 MOhm 1%   |              |
| C...  | 11   | 59.05.2103   | 10 nF 2.5%, 63V, PP   |                          | R...             | 26   | 57.11.3223 | 22 kOhm 1%  |              |
| C...  | 12   | 59.05.2103   | 10 nF 2.5%, 63V, PP   |                          | R...             | 27   | 57.11.3183 | 18 kOhm 1%  |              |
| C...  | 13   | 59.22.4470   | 47 uF -20%, 16V, EI   |                          | R...             | 28   | 57.11.3000 | 0 Ohm       |              |
| C...  | 14   | 59.05.2102   | 1 nF 2.5%, 63V, PP    |                          | R...             | 29   | 57.11.3392 | 3.9 kOhm 1% |              |
| C...  | 15   | 59.05.2103   | 10 nF 2.5%, 63V, PP   |                          | R...             | 30   | 57.11.3473 | 47 kOhm 1%  |              |
| C...  | 16   | 59.05.2103   | 10 nF 2.5%, 63V, PP   |                          | R...             | 31   | 57.11.3513 | 51 kOhm 1%  |              |
| C...  | 17   | 59.22.4470   | 47 uF -20%, 16V, EI   |                          | R...             | 32   | 57.11.3513 | 51 kOhm 1%  |              |
| C...  | 18   | 59.05.2102   | 1 nF 2.5%, 63V, PP    |                          | R...             | 33   | 57.11.3513 | 51 kOhm 1%  |              |
| C...  | 19   | 59.05.2103   | 10 nF 2.5%, 63V, PP   |                          | R...             | 34   | 57.11.3105 | 1 MOhm 1%   |              |
| C...  | 20   | 59.05.2103   | 10 nF 2.5%, 63V, PP   |                          | R...             | 35   | 57.11.3223 | 22 kOhm 1%  |              |
| C...  | 21   | 59.22.4470   | 47 uF -20%, 16V, EI   |                          | R...             | 36   | 57.11.3183 | 18 kOhm 1%  |              |
| C...  | 22   | 59.05.2102   | 1 nF 2.5%, 63V, PP    |                          | R...             | 37   | 57.11.3000 | 0 Ohm       |              |
| C...  | 23   | 59.05.2103   | 10 nF 2.5%, 63V, PP   |                          | R...             | 38   | 57.11.3273 | 27 kOhm 1%  |              |
| C...  | 24   | 59.05.2103   | 10 nF 2.5%, 63V, PP   |                          | R...             | 39   | 57.11.3223 | 22 kOhm 1%  |              |
| C...  | 25   | 59.22.4470   | 47 uF -20%, 16V, EI   |                          | R...             | 40   | 57.11.3112 | 1.1 kOhm 1% |              |
| D...  | 1    | 50.04.0512   | IN 5818               | IN 5819                  |                  |      |            |             |              |
| D...  | 2    | 50.04.0125   | IN 4448               |                          |                  |      |            |             |              |
| D...  | 3    | 50.04.0125   | IN 4448               |                          |                  |      |            |             |              |
| D...  | 4    | 50.04.0125   | IN 4448               |                          |                  |      |            |             |              |
| D...  | 5    | 50.04.0125   | IN 4448               |                          |                  |      |            |             |              |
| IC... | 1    | 50.17.1595   | M74 HC 595            | 74 HC 595                | NS,SGS,Tho, TI   |      |            |             |              |
| IC... | 2    | 50.05.0283   | LM 393 P              | LM 393 N, LM 393 DP      | TI,NS,Tho        |      |            |             |              |
| IC... | 3    | 50.05.0283   | LM 393 P              | LM 393 N, LM 393 DP      | TI,NS,Tho        |      |            |             |              |
| IC... | 4    | 50.05.0283   | LM 393 P              | LM 393 N, LM 393 DP      | TI,NS,Tho        |      |            |             |              |
| IC... | 5    | 50.05.0113   | N74LS 113N            | SN 74 LS 113 N           | Sig, TI          |      |            |             |              |
| IC... | 6    | 50.17.1113   | MC74HC113M            | SN 74 HC 113 N           | MoT, TI          |      |            |             |              |
| IC... | 7    | 50.06.0113   | MC74LS 113M           | SN 74 LS 113 N           | MoT, TI          |      |            |             |              |
| IC... | 8    | 50.17.1133   | MC74HC113M            | SN 74 HC 113 N           | MoT, TI          |      |            |             |              |
| JS... | 1    | 54.01.0020   | Cont. Pin             |                          |                  |      |            |             |              |
| JS... | 2    | 54.01.0020   | Cont. Pin             |                          |                  |      |            |             |              |
| JS... | 3    | 54.01.0020   | Cont. Pin             |                          |                  |      |            |             |              |
| JS... | 4    | 54.01.0020   | Cont. Pin             |                          |                  |      |            |             |              |
| K...  | 1    | 56.04.0171   | SM D1012              |                          | ITT              |      |            |             |              |
| K...  | 2    | 1.912.171.00 | 12 V                  | SM REL. BOARD            | ITT              |      |            |             |              |
| K...  | 3    | 1.912.171.00 | 12 V                  | SM REL. BOARD            | ITT              |      |            |             |              |
| K...  | 4    | 1.912.171.00 | 12 V                  | SM REL. BOARD            | ITT              |      |            |             |              |
| K...  | 5    | 1.912.171.00 | 12 V                  | SM REL. BOARD            | ITT              |      |            |             |              |
| L...  | 1    | 62.02.2122   | 1.2 mH                | TDX Nr. CSL 0812 - 122 J |                  |      |            |             |              |
| L...  | 2    | 62.02.2122   | 1.2 mH                | TDX Nr. CSL 0812 - 122 J |                  |      |            |             |              |
| L...  | 3    | 62.02.2122   | 1.2 mH                | TDX Nr. CSL 0812 - 122 J |                  |      |            |             |              |
| L...  | 4    | 62.02.2122   | 1.2 mH                | TDX Nr. CSL 0812 - 122 J |                  |      |            |             |              |
| F...  | 1    | 54.01.0358   | Connector             | 2*12 Euro Print          |                  |      |            |             |              |
| ...   | 1    | 50.03.0351   | BC 327-25             |                          | ITT, Ph, Sie     |      |            |             |              |
| ...   | 2    | 50.03.0351   | BC 327-25             |                          | ITT, Ph, Sie     |      |            |             |              |
| ...   | 3    | 50.03.0216   | J 111                 |                          | MoT, NS, Six, Is |      |            |             |              |
| ...   | 4    | 50.03.0216   | J 111                 |                          | MoT, NS, Six, Is |      |            |             |              |
| ...   | 5    | 50.03.0351   | BC 327-25             |                          | ITT, Ph, Sie     |      |            |             |              |
| ...   | 6    | 50.03.0351   | BC 327-25             |                          | ITT, Ph, Sie     |      |            |             |              |
| ...   | 7    | 50.03.0216   | J 111                 |                          | MoT, NS, Six, Is |      |            |             |              |
| ...   | 8    | 50.03.0216   | J 111                 |                          | MoT, NS, Six, Is |      |            |             |              |
| ...   | 9    | 50.03.0351   | BC 327-25             |                          | ITT, Ph, Sie     |      |            |             |              |
| ...   | 10   | 50.03.0351   | BC 327-25             |                          | ITT, Ph, Sie     |      |            |             |              |
| ...   | 11   | 50.03.0351   | BC 327-25             |                          | ITT, Ph, Sie     |      |            |             |              |
| ...   | 12   | 50.03.0351   | BC 327-25             |                          | ITT, Ph, Sie     |      |            |             |              |
| ...   | 13   | 50.03.1505   | NV 0808 M             | VN 0808 MTR, ZVN 0108 A  | Fe, Six          |      |            |             |              |
| ...   | 14   | 50.03.1505   | NV 0808 M             | VN 0808 MTR, ZVN 0108 A  | Fe, Six          |      |            |             |              |
| ...   | 15   | 50.03.1505   | NV 0808 M             | VN 0808 MTR, ZVN 0108 A  | Fe, Six          |      |            |             |              |
| ...   | 16   | 50.03.1505   | NV 0808 M             | VN 0808 MTR, ZVN 0108 A  | Fe, Six          |      |            |             |              |
| ...   | 17   | 50.03.1505   | NV 0808 M             | VN 0808 MTR, ZVN 0108 A  | Fe, Six          |      |            |             |              |
| ...   | 18   | 50.03.1505   | NV 0808 M             | VN 0808 MTR, ZVN 0108 A  | Fe, Six          |      |            |             |              |
| ...   | 19   | 50.03.1505   | NV 0808 M             | VN 0808 MTR, ZVN 0108 A  | Fe, Six          |      |            |             |              |
| ...   | 20   | 50.03.1505   | NV 0808 M             | VN 0808 MTR, ZVN 0108 A  | Fe, Six          |      |            |             |              |
| ...   | 21   | 50.03.1505   | NV 0808 M             | VN 0808 MTR, ZVN 0108 A  | Fe, Six          |      |            |             |              |
| R...  | 1    | 57.11.3104   | 100 kOhm              | 1%                       |                  |      |            |             |              |
| R...  | 2    | 57.11.3392   | 3.9 kOhm              | 1%                       |                  |      |            |             |              |
| R...  | 3    | 57.11.3473   | 47 kOhm               | 1%                       |                  |      |            |             |              |
| R...  | 4    | 57.11.3513   | 51 kOhm               | 1%                       |                  |      |            |             |              |
| R...  | 5    | 57.11.3513   | 51 kOhm               | 1%                       |                  |      |            |             |              |
| R...  | 6    | 57.11.3513   | 51 kOhm               | 1%                       |                  |      |            |             |              |
| R...  | 7    | 57.11.3105   | 1 MOhm                | 1%                       |                  |      |            |             |              |
| R...  | 8    | 57.11.3223   | 22 kOhm               | 1%                       |                  |      |            |             |              |
| R...  | 9    | 57.11.3183   | 18 kOhm               | 1%                       |                  |      |            |             |              |
| R...  | 10   | 57.11.3000   | 0 Ohm                 |                          |                  |      |            |             |              |
| R...  | 11   | 57.11.3392   | 3.9 kOhm              | 1%                       |                  |      |            |             |              |
| R...  | 12   | 57.11.3473   | 47 kOhm               | 1%                       |                  |      |            |             |              |
| R...  | 13   | 57.11.3513   | 51 kOhm               | 1%                       |                  |      |            |             |              |
| R...  | 14   | 57.11.3513   | 51 kOhm               | 1%                       |                  |      |            |             |              |
| R...  | 15   | 57.11.3513   | 51 kOhm               | 1%                       |                  |      |            |             |              |
| R...  | 16   | 57.11.3105   | 1 MOhm                | 1%                       |                  |      |            |             |              |

1,5±2,5 Lötstelenhöhe

1.862.717-11

gelbe Markierung

① Unterlage 1.010.007-61 unter T1 bis T4 (4x) montiert.

| Arbeitsnr. | Arbeitszeit | Arbeitsort | Arbeitsdatum | Arbeitsname | Arbeitsgruppe | Arbeitsleiter |
|------------|-------------|------------|--------------|-------------|---------------|---------------|
| 23.6.89    | 7h          |            |              |             |               |               |
| 20.4.89    | 1h          |            |              |             |               |               |
| Datum      | Gez.        | Gedr.      | Ges.         | Inch.       |               |               |

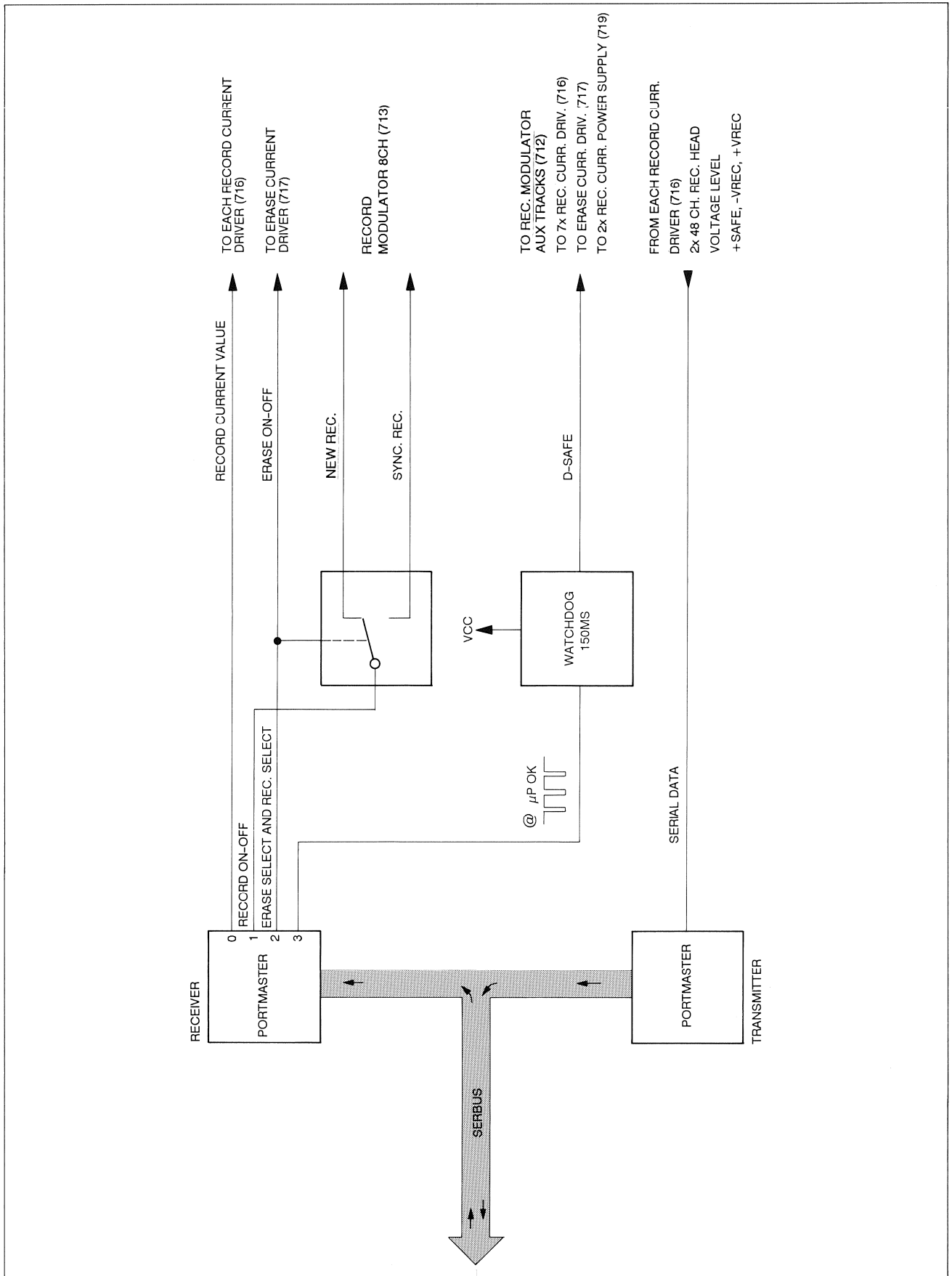
STUDER  
REGENSDORF  
ZÜRICH

ERASE CURRENT  
DRIVER  
ESE

Kopie für:  
Nummer:  
1.862.717-00

**BLOCK DIAGRAM**

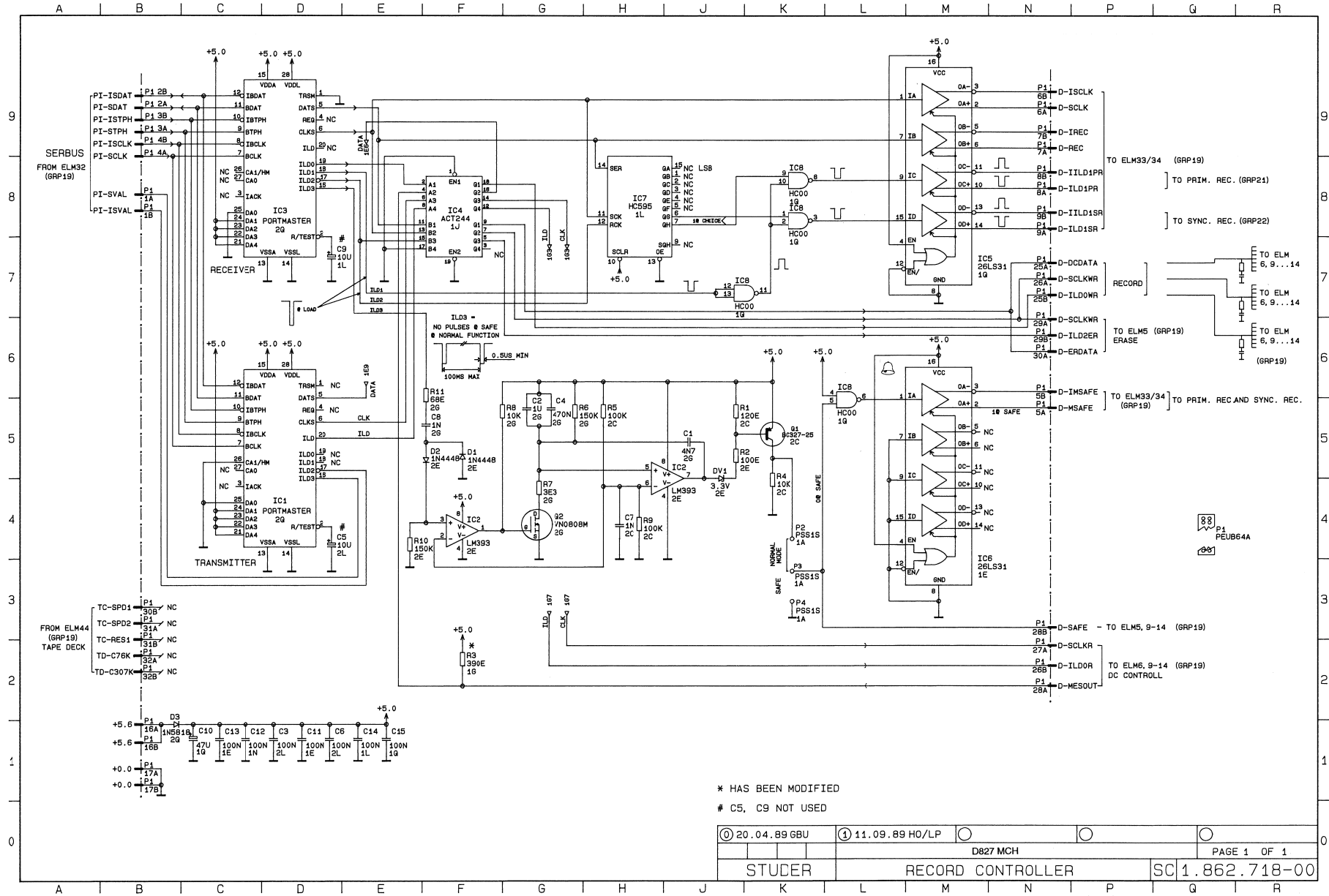
Record Controller 1.862.718



STUDER D827 MCH

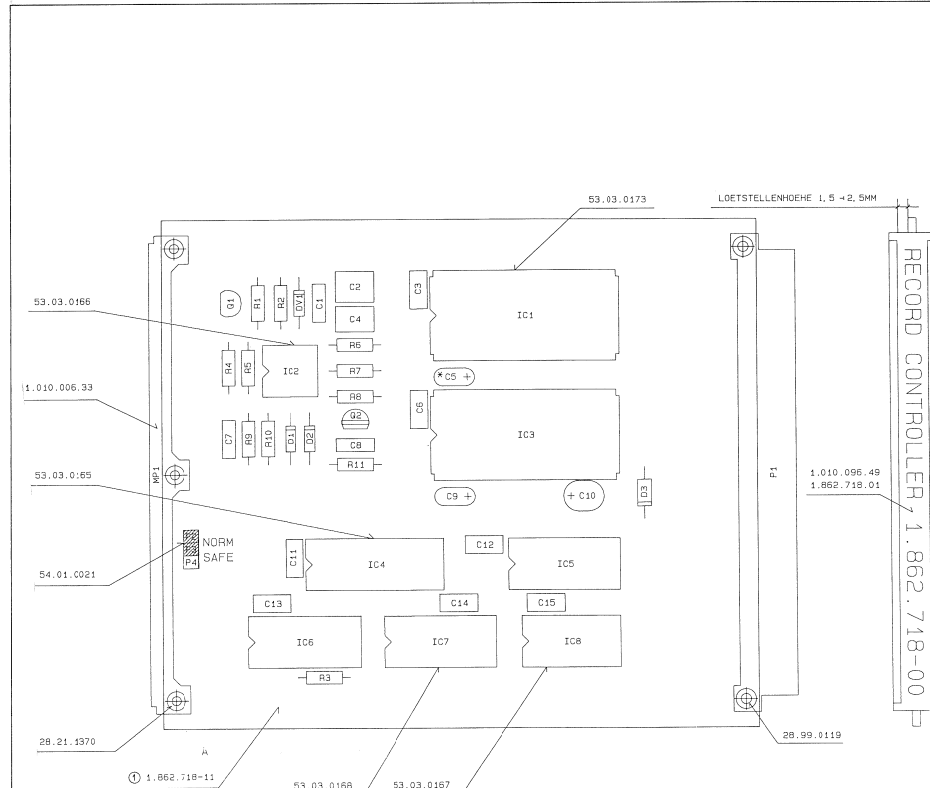


RECORD CONTROLLER 1.862.718.00





RECORD CONTROLLER 1.862.718.00



|     |          |     |            |
|-----|----------|-----|------------|
| ○   |          |     |            |
| ○   | 11.9.89  |     |            |
| ○   | 20.04.89 | GBU | LP         |
| END | u+M      | G2  | BEPR. SES. |

|        |                   |              |
|--------|-------------------|--------------|
| STUDER | RECORD CONTROLLER | 1.862.718-00 |
|--------|-------------------|--------------|

| Ad      | POS. | REF.No.    | DESCRIPTION | MANUFACTURER                  |
|---------|------|------------|-------------|-------------------------------|
| C....1  |      | 59.06.0472 | 4.7 nF      | 10% , 63V , PETP              |
| C....2  |      | 59.06.0105 | 1 uF        | 10% , 63V , PETP              |
| C....3  |      | 59.06.0104 | 100 nF      | 10% , 63V , PETP              |
| C....4  |      | 59.06.0474 | 470 nF      | 10% , 63V , PETP              |
| C....5  |      | 00.00.0000 | not used    |                               |
| C....6  |      | 59.06.0104 | 100 nF      | 10% , 63V , PETP              |
| C....7  |      | 59.06.0102 | 1 nF        | 10% , 63V , PETP              |
| C....8  |      | 59.06.0102 | 1 nF        | 10% , 63V , PETP              |
| C....9  |      | 00.00.0000 | not used    |                               |
| C....10 |      | 59.26.0470 | 47 uF       | 20% , 6,3V , Sal              |
| C....11 |      | 59.06.0104 | 100 nF      | 10% , 63V , PETP              |
| C....12 |      | 59.06.0104 | 100 nF      | 10% , 63V , PETP              |
| C....13 |      | 59.06.0104 | 100 nF      | 10% , 63V , PETP              |
| C....14 |      | 59.06.0104 | 100 nF      | 10% , 63V , PETP              |
| C....15 |      | 59.06.0104 | 100 nF      | 10% , 63V , PETP              |
| D....1  |      | 50.04.0125 | 1N 4448     | R-OHM, Fc, ITT, Ph, SES, Tf   |
| D....2  |      | 50.04.0125 | 1N 4448     | R-OHM, Fc, ITT, Ph, SES, Tf   |
| D....3  |      | 50.04.0512 | 1N 5818     | Mot                           |
| DV....1 |      | 50.04.1107 | 3,3V Z      | ITT, Mot, Ph, Tf, Th          |
| IC....1 |      | 50.50.0010 | PORTMASTER  | DectroSwiss                   |
| IC....2 |      | 50.05.0263 | LM 393      | TI, NS, Th                    |
| IC....3 |      | 50.50.0010 | PORTMASTER  | DectroSwiss                   |
| IC....4 |      | 50.17.7244 | 7A ACT244   | RCA, Fc                       |
| IC....5 |      | 50.15.0108 | AM26 LS 31  | AMD, Mot, TI                  |
| IC....6 |      | 50.15.0108 | AM26 LS 31  | AMD, Mot, TI                  |
| IC....7 |      | 50.17.1595 | 74HC595     | NS, SGS, TI                   |
| IC....8 |      | 50.17.1000 | 74HC00      | Mot, NS, Ph, RCA, SGS, TI, To |
| P....1  |      | 54.11.2004 | Connector   | Z*32 Euro Print               |
| P....2  |      | 54.01.0020 | Cont. Pin   |                               |
| P....3  |      | 54.01.0020 | Cont. Pin   |                               |
| P....4  |      | 54.01.0020 | Cont. Pin   |                               |
| Q....1  |      | 50.03.0251 | BC 327-25   | ITT, Ph, Sie                  |
| Q....2  |      | 50.03.1505 | VN 0808     | VN 0108                       |
| R....1  |      | 57.11.3121 | 120 Ohm     | 2%                            |
| R....2  |      | 57.11.3101 | 100 Ohm     | 5%                            |
| R....3  |      | 57.11.3103 | 10 Kohm     | 5%                            |
| R....4  |      | 57.11.3103 | 10 Kohm     | 5%                            |
| R....5  |      | 57.11.3103 | 10 Kohm     | 5%                            |
| R....6  |      | 57.11.3154 | 150 Kohm    | 5%                            |
| R....7  |      | 57.11.3339 | 3.3 Ohm     | 5%                            |
| R....8  |      | 57.11.3103 | 10 Kohm     | 5%                            |
| R....9  |      | 57.11.3104 | 100 Kohm    | 5%                            |
| R....10 |      | 57.11.3154 | 150 Kohm    | 5%                            |
| R....11 |      | 57.11.3680 | 68 Ohm      | 5%                            |

(01) 89/09/11 Decrease of rise time D-NESOUT signal.

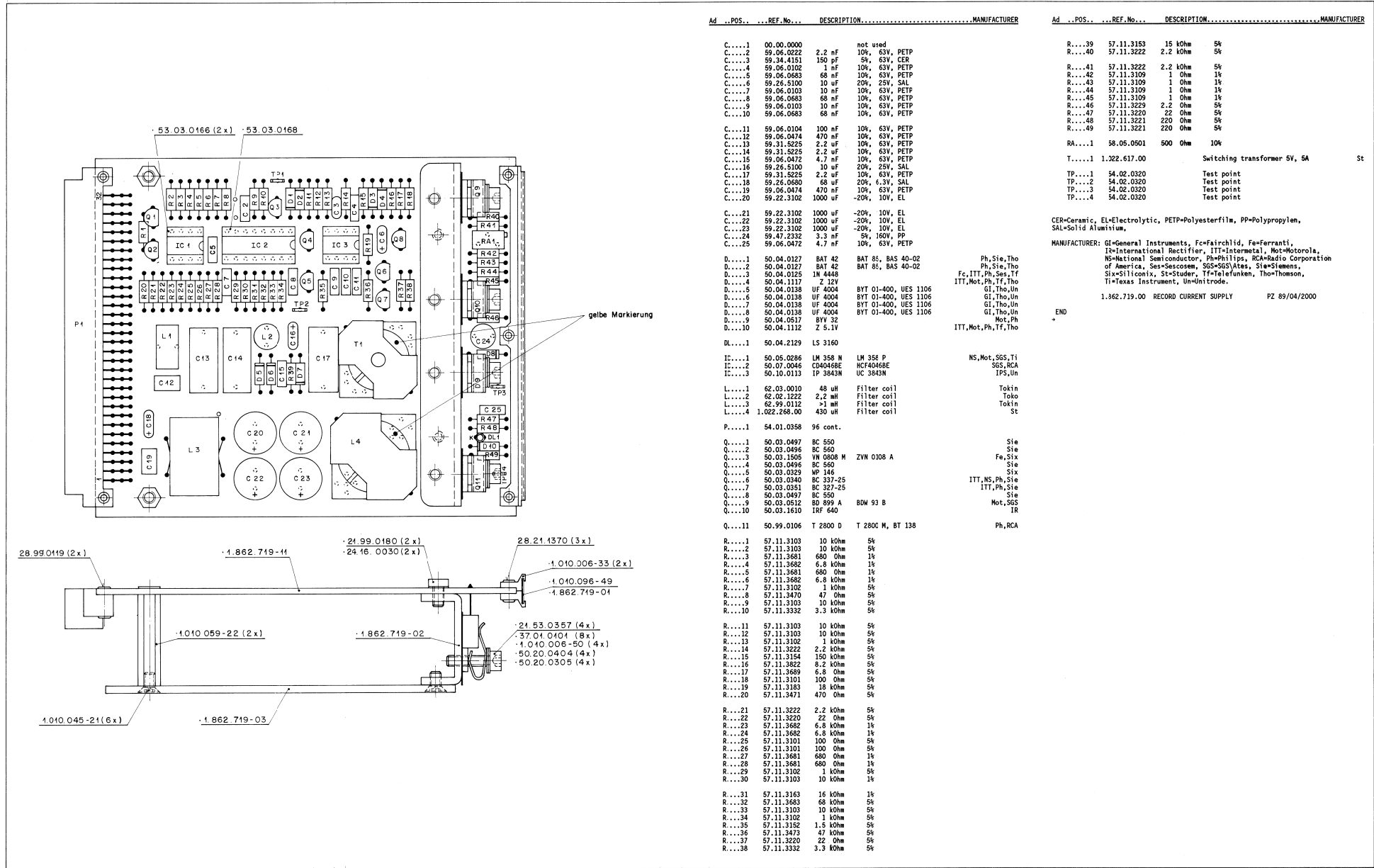
Sal=Solid Aluminium, PETP=Polyesterfilm.

MANUFACTURER: AMD=Advanced Micro Devices, Fc=Fairchild, Fe=Ferranti, ITT=Intermetel, Hot=Motorola, NS=National Semiconductors, Ph=Philips, RCA=Radio Corporation of America, Ses=Sesocem, SGS=SGS/Ates, Sie=Siemens, Stx=Siliconix, Tf=Telefunken, Th=Thomson, Ti=Texas Instruments, To= Toshiba.

|              |                   |               |
|--------------|-------------------|---------------|
| 1.862.718.00 | RECORD CONTROLLER | LP 89/04/2000 |
| 1.862.718.00 | RECORD CONTROLLER | LP 89/09/1101 |



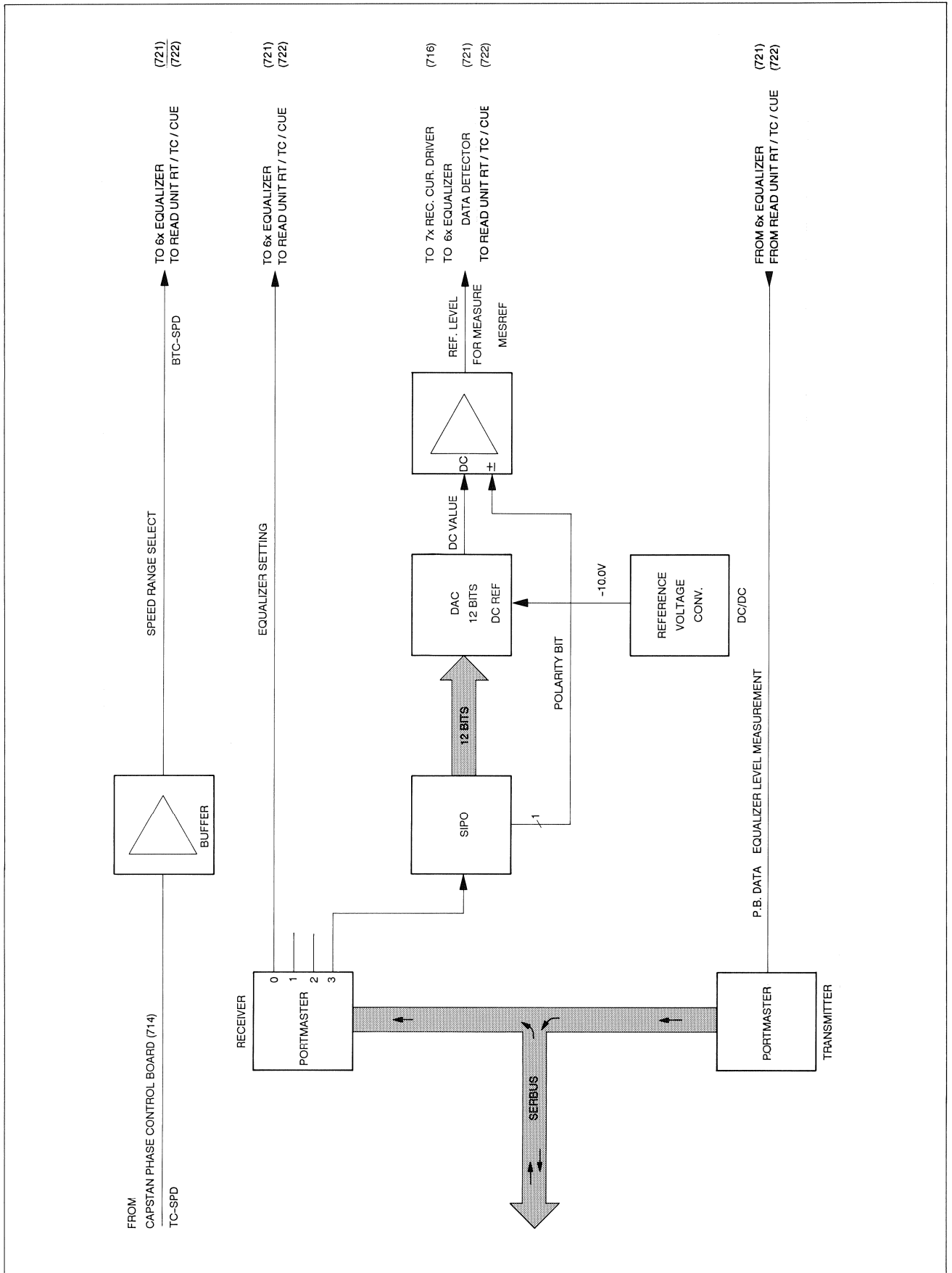
RECORD CURRENT SUPPLY 1.862.719.00



| Ad      | POS. | REF.No.      | DESCRIPTION | MANUFACTURER         | Ad      | POS.         | REF.No.  | DESCRIPTION | MANUFACTURER                 |
|---------|------|--------------|-------------|----------------------|---------|--------------|----------|-------------|------------------------------|
| C....1  |      | 00.00.0000   | 2.2 nF      | not used             | R....39 | 57.11.3153   | 15 kOhm  | 5%          |                              |
| C....2  |      | 59.06.0222   | 150 nF      | 10%, 63V, PETP       | R....40 | 57.11.3222   | 2.2 kOhm | 5%          |                              |
| C....3  |      | 59.34.4151   | 1 nF        | 5%, 63V, CER         | R....41 | 57.11.3222   | 2.2 kOhm | 5%          |                              |
| C....4  |      | 59.06.0102   | 1 nF        | 10%, 63V, PETP       | R....42 | 57.11.3109   | 1 Ohm    | 1%          |                              |
| C....5  |      | 59.06.0683   | 68 nF       | 10%, 63V, PETP       | R....43 | 57.11.3109   | 1 Ohm    | 1%          |                              |
| C....6  |      | 59.26.5100   | 10 uF       | 20%, 25V, SAL        | R....44 | 57.11.3109   | 1 Ohm    | 1%          |                              |
| C....7  |      | 59.06.0103   | 10 nF       | 10%, 63V, PETP       | R....45 | 57.11.3109   | 1 Ohm    | 1%          |                              |
| C....8  |      | 59.06.0683   | 68 nF       | 10%, 63V, PETP       | R....46 | 57.11.3229   | 2.2 Ohm  | 5%          |                              |
| C....9  |      | 59.06.0103   | 10 nF       | 10%, 63V, PETP       | R....47 | 57.11.3220   | 22 Ohm   | 5%          |                              |
| C....10 |      | 59.06.0683   | 68 nF       | 10%, 63V, PETP       | R....48 | 57.11.3221   | 220 Ohm  | 5%          |                              |
| C....11 |      | 59.06.0104   | 100 nF      | 10%, 63V, PETP       | R....49 | 57.11.3221   | 220 Ohm  | 5%          |                              |
| C....12 |      | 59.06.0474   | 470 nF      | 10%, 63V, PETP       | RA....1 | 58.05.0501   | 500 Ohm  | 10%         |                              |
| C....13 |      | 59.31.5225   | 2.2 uF      | 10%, 63V, PETP       | T....1  | 1.322.617.00 |          |             | Switching transformer 5V, 5A |
| C....14 |      | 59.31.5225   | 2.2 uF      | 10%, 63V, PETP       | TP....1 | 54.02.0320   |          |             | Test point                   |
| C....15 |      | 59.06.0472   | 4.7 nF      | 10%, 63V, PETP       | TP....2 | 54.02.0320   |          |             | Test point                   |
| C....16 |      | 59.26.5100   | 10 uF       | 20%, 25V, SAL        | TP....3 | 54.02.0320   |          |             | Test point                   |
| C....17 |      | 59.31.5225   | 2.2 uF      | 10%, 63V, PETP       | TP....4 | 54.02.0320   |          |             | Test point                   |
| C....18 |      | 59.26.0580   | 68 uF       | 20%, 6.3V, SAL       |         |              |          |             |                              |
| C....19 |      | 59.06.0474   | 470 nF      | 10%, 63V, PETP       |         |              |          |             |                              |
| C....20 |      | 59.22.3102   | 1000 uF     | -20%, 10V, EL        |         |              |          |             |                              |
| C....21 |      | 59.22.3102   | 1000 uF     | -20%, 10V, EL        |         |              |          |             |                              |
| C....22 |      | 59.22.3102   | 1000 uF     | -20%, 10V, EL        |         |              |          |             |                              |
| C....23 |      | 59.22.3102   | 1000 uF     | -20%, 10V, EL        |         |              |          |             |                              |
| C....24 |      | 59.47.2332   | 3.3 nF      | 5%, 180V, PP         |         |              |          |             |                              |
| C....25 |      | 59.06.0472   | 4.7 nF      | 10%, 63V, PETP       |         |              |          |             |                              |
| D....1  |      | 50.04.0127   | BAT 42      | BAT 85, BAS 40-02    |         |              |          |             |                              |
| D....2  |      | 50.04.0127   | BAT 42      | BAT 85, BAS 40-02    |         |              |          |             |                              |
| D....3  |      | 50.04.0125   | 1W 44468    |                      |         |              |          |             |                              |
| D....4  |      | 50.04.1117   | Z 12V       |                      |         |              |          |             |                              |
| D....5  |      | 50.04.0138   | UF 4004     | BYT 01-400, UES 1106 |         |              |          |             |                              |
| D....6  |      | 50.04.0138   | UF 4004     | BYT 01-400, UES 1106 |         |              |          |             |                              |
| D....7  |      | 50.04.0138   | UF 4004     | BYT 01-400, UES 1106 |         |              |          |             |                              |
| D....8  |      | 50.04.0138   | UF 4004     | BYT 01-400, UES 1106 |         |              |          |             |                              |
| D....9  |      | 50.04.0517   | BYV 32      |                      |         |              |          |             |                              |
| D....10 |      | 50.04.1112   | Z 5.1V      |                      |         |              |          |             |                              |
| DL....1 |      | 50.04.2129   | LS 3160     |                      |         |              |          |             |                              |
| IC....1 |      | 50.05.0286   | LM 358 N    | LM 358 P             |         |              |          |             |                              |
| IC....2 |      | 50.07.0042   | CM0406E     | ICF0406E             |         |              |          |             |                              |
| IC....3 |      | 50.10.0113   | IP 3843M    | UC 3843M             |         |              |          |             |                              |
| L....1  |      | 62.03.0010   | 48 uH       | Filter coil          |         |              |          |             |                              |
| L....2  |      | 62.02.1222   | 2.2 mH      | Filter coil          |         |              |          |             |                              |
| L....3  |      | 62.99.0112   | >1          | Filter coil          |         |              |          |             |                              |
| L....4  |      | 1.022.268.00 | 430 uH      | Filter coil          |         |              |          |             |                              |
| P....1  |      | 54.01.0358   | 96 cont.    |                      |         |              |          |             |                              |
| Q....1  |      | 50.03.0497   | BC 550      |                      |         |              |          |             |                              |
| Q....2  |      | 50.03.0496   | BC 560      |                      |         |              |          |             |                              |
| Q....3  |      | 50.03.1505   | VN 0808 M   | ZVN 0308 A           |         |              |          |             |                              |
| Q....4  |      | 50.03.0496   | BC 560      |                      |         |              |          |             |                              |
| Q....5  |      | 50.03.0329   | MP 146      |                      |         |              |          |             |                              |
| Q....6  |      | 50.03.0340   | BC 337-25   |                      |         |              |          |             |                              |
| Q....7  |      | 50.03.0351   | BC 327-25   |                      |         |              |          |             |                              |
| Q....8  |      | 50.03.0497   | BC 550      |                      |         |              |          |             |                              |
| Q....9  |      | 50.03.0512   | BD 895 A    | BDW 93 B             |         |              |          |             |                              |
| Q....10 |      | 50.03.1618   | 1P 640      |                      |         |              |          |             |                              |
| Q....11 |      | 50.99.0106   | T 2800 D    | T 2800 M, BT 138     |         |              |          |             |                              |
| R....1  |      | 57.11.3103   | 10 kOhm     | 5%                   |         |              |          |             |                              |
| R....2  |      | 57.11.3103   | 10 kOhm     | 5%                   |         |              |          |             |                              |
| R....3  |      | 57.11.3681   | 680 Ohm     | 1%                   |         |              |          |             |                              |
| R....4  |      | 57.11.3682   | 6.8 kOhm    | 1%                   |         |              |          |             |                              |
| R....5  |      | 57.11.3681   | 680 Ohm     | 1%                   |         |              |          |             |                              |
| R....6  |      | 57.11.3682   | 6.8 kOhm    | 1%                   |         |              |          |             |                              |
| R....7  |      | 57.11.3102   | 1 kOhm      | 5%                   |         |              |          |             |                              |
| R....8  |      | 57.11.3470   | 47 Ohm      | 5%                   |         |              |          |             |                              |
| R....9  |      | 57.11.3103   | 10 kOhm     | 5%                   |         |              |          |             |                              |
| R....10 |      | 57.11.3332   | 3.3 kOhm    | 5%                   |         |              |          |             |                              |
| R....11 |      | 57.11.3103   | 10 kOhm     | 5%                   |         |              |          |             |                              |
| R....12 |      | 57.11.3103   | 10 kOhm     | 5%                   |         |              |          |             |                              |
| R....13 |      | 57.11.3102   | 1 kOhm      | 5%                   |         |              |          |             |                              |
| R....14 |      | 57.11.3222   | 2.2 kOhm    | 5%                   |         |              |          |             |                              |
| R....15 |      | 57.11.3104   | 150 kOhm    | 5%                   |         |              |          |             |                              |
| R....16 |      | 57.11.3822   | 8.2 kOhm    | 5%                   |         |              |          |             |                              |
| R....17 |      | 57.11.3689   | 6.8 Ohm     | 5%                   |         |              |          |             |                              |
| R....18 |      | 57.11.3103   | 100 Ohm     | 5%                   |         |              |          |             |                              |
| R....19 |      | 57.11.3183   | 18 kOhm     | 5%                   |         |              |          |             |                              |
| R....20 |      | 57.11.3471   | 470 Ohm     | 5%                   |         |              |          |             |                              |
| R....21 |      | 57.11.3222   | 2.2 kOhm    | 5%                   |         |              |          |             |                              |
| R....22 |      | 57.11.3220   | 22 Ohm      | 5%                   |         |              |          |             |                              |
| R....23 |      | 57.11.3682   | 6.8 kOhm    | 1%                   |         |              |          |             |                              |
| R....24 |      | 57.11.3682   | 6.8 kOhm    | 1%                   |         |              |          |             |                              |
| R....25 |      | 57.11.3101   | 100 Ohm     | 5%                   |         |              |          |             |                              |
| R....26 |      | 57.11.3101   | 100 Ohm     | 5%                   |         |              |          |             |                              |
| R....27 |      | 57.11.3681   | 680 Ohm     | 1%                   |         |              |          |             |                              |
| R....28 |      | 57.11.3681   | 680 Ohm     | 1%                   |         |              |          |             |                              |
| R....29 |      | 57.11.3102   | 1 kOhm      | 5%                   |         |              |          |             |                              |
| R....30 |      | 57.11.3103   | 10 kOhm     | 1%                   |         |              |          |             |                              |
| R....31 |      | 57.11.3163   | 16 kOhm     | 1%                   |         |              |          |             |                              |
| R....32 |      | 57.11.3683   | 68 kOhm     | 5%                   |         |              |          |             |                              |
| R....33 |      | 57.11.3103   | 10 kOhm     | 5%                   |         |              |          |             |                              |
| R....34 |      | 57.11.3102   | 1 kOhm      | 5%                   |         |              |          |             |                              |
| R....35 |      | 57.11.3152   | 1.5 kOhm    | 5%                   |         |              |          |             |                              |
| R....36 |      | 57.11.3473   | 47 kOhm     | 5%                   |         |              |          |             |                              |
| R....37 |      | 57.11.3220   | 22 Ohm      | 5%                   |         |              |          |             |                              |
| R....38 |      | 57.11.3332   | 3.3 kOhm    | 5%                   |         |              |          |             |                              |

**BLOCK DIAGRAM**

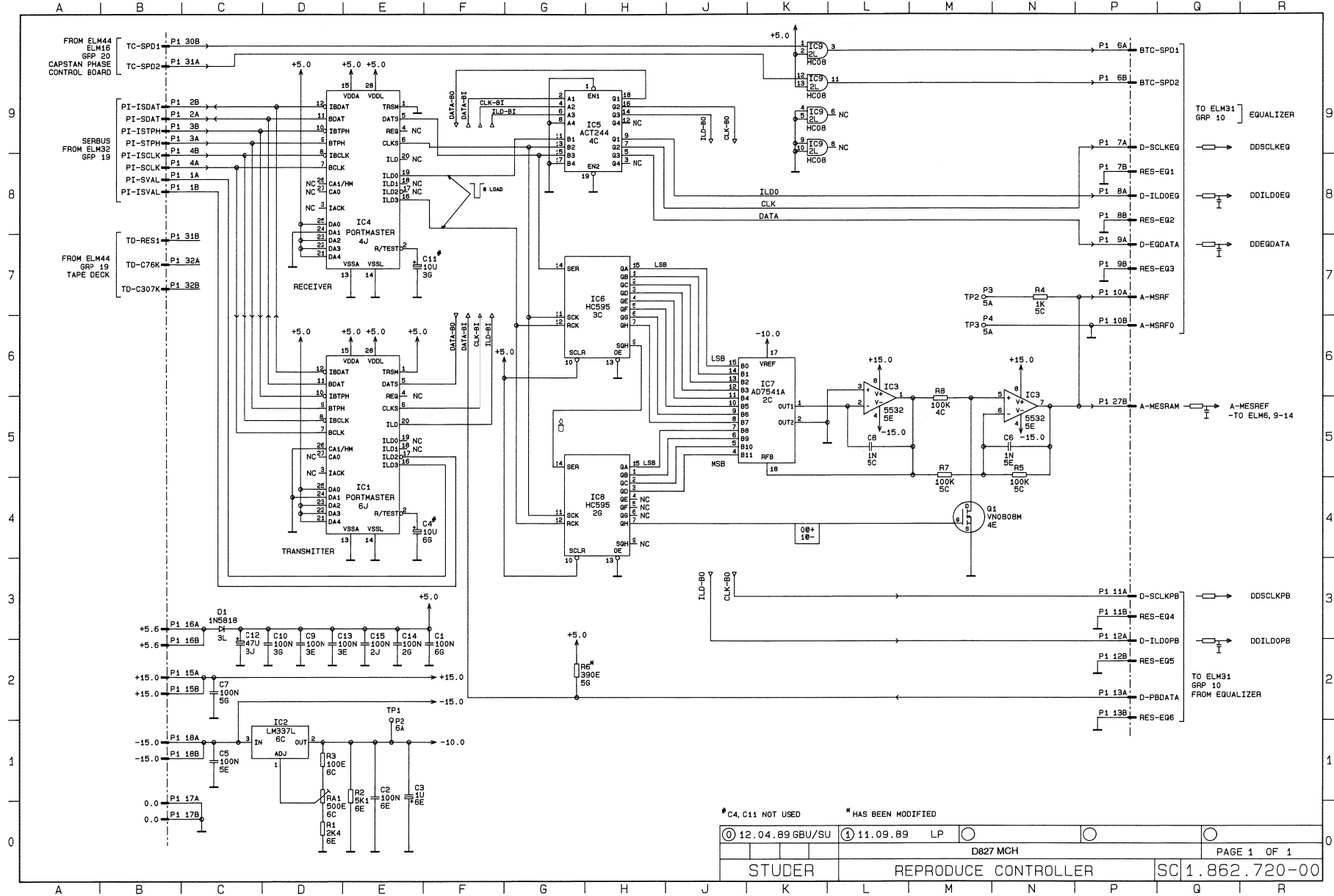
Reproduce Controller 1.862.720



STUDER D827 MCH



REPRODUCE CONTROLLER 1.862.720.00



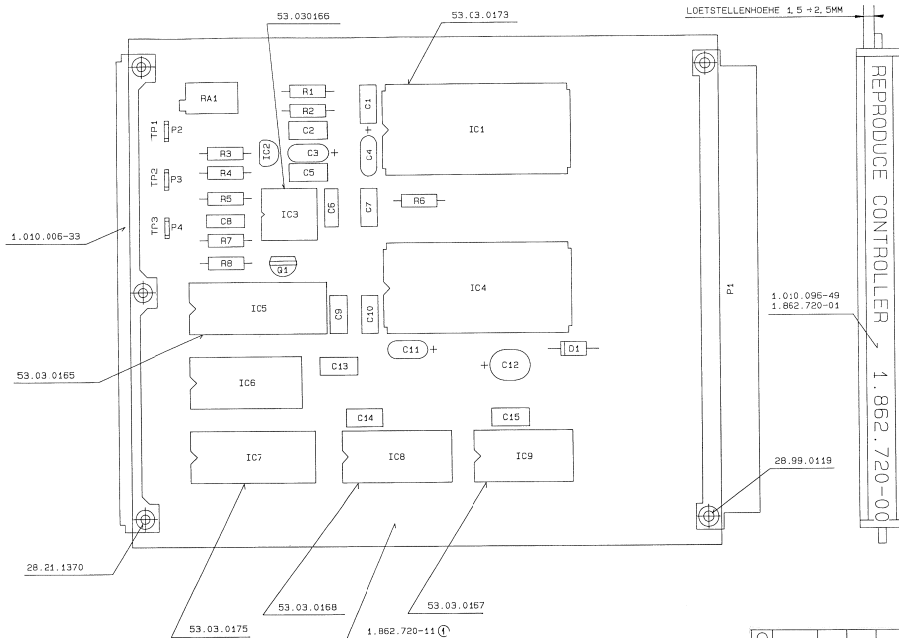
\* C4, C11 NOT USED \* HAS BEEN MODIFIED

|                   |               |                      |  |
|-------------------|---------------|----------------------|--|
| ① 12.04.89 GBU/SU | ① 11.09.89 LP |                      |  |
| D827 MCH          |               | PAGE 1 OF 1          |  |
| STUDER            |               | REPRODUCE CONTROLLER |  |
|                   |               | SC 1.862.720-00      |  |





REPRODUCE CONTROLLER 48CH 1.862.720.00



|   |          |      |      |
|---|----------|------|------|
| ○ |          |      |      |
| ○ |          |      |      |
| ○ | 11989    | GBU  | RES  |
| ○ | 12.04.89 | GEZ. | RES. |

|        |                            |              |
|--------|----------------------------|--------------|
| STUDER | REPRODUCE CONTROLLER "ESE" | 1.862.720-00 |
|--------|----------------------------|--------------|

AL POS... REF.No... DESCRIPTION.....MANUFACTURER

|         |            |            |                                    |                         |
|---------|------------|------------|------------------------------------|-------------------------|
| C....1  | 59.06.0104 | 100 nF     | 10k , 63V , PETP                   |                         |
| C....2  | 59.06.0104 | 100 nF     | 10k , 63V , PETP                   |                         |
| C....3  | 59.26.5109 | 1 uF       | 10k , 25V , SaI                    |                         |
| C....4  | 00.00.0000 | not used   |                                    |                         |
| C....5  | 59.06.0104 | 100 nF     | 10k , 63V , PETP                   |                         |
| C....6  | 59.06.0102 | 1 nF       | 10k , 63V , PETP                   |                         |
| C....7  | 59.06.0104 | 100 nF     | 10k , 63V , PETP                   |                         |
| C....8  | 59.06.0102 | 1 nF       | 10k , 63V , PETP                   |                         |
| C....9  | 59.06.0104 | 100 nF     | 10k , 63V , PETP                   |                         |
| C....10 | 59.06.0104 | 100 nF     | 10k , 63V , PETP                   |                         |
| C....11 | 00.00.0000 | not used   |                                    |                         |
| C....12 | 59.26.0470 | 47 uF      | 20k , 6,3V , SaI                   |                         |
| C....13 | 59.06.0104 | 100 nF     | 10k , 63V , PETP                   |                         |
| C....14 | 59.06.0104 | 100 nF     | 10k , 63V , PETP                   |                         |
| C....15 | 59.06.0104 | 100 nF     | 10k , 63V , PETP                   |                         |
| D....1  | 50.04.0512 | 1N 5818    | 1N 5819                            | Mot                     |
| IC....1 | 50.50.0010 | PORTMASTER |                                    | DectroSwiss             |
| IC....2 | 50.10.0109 | LM 337 LZ  |                                    | NS                      |
| IC....3 | 50.09.0106 | 5532 AN    |                                    | Stg,Ex,Ra               |
| IC....4 | 50.50.0010 | PORTMASTER |                                    | DectroSwiss             |
| IC....5 | 50.17.7244 | 74ACT244   |                                    | RCA,Fe                  |
| IC....6 | 50.17.1895 | 74HC595    | MP7623                             | NS,SGS,TI               |
| IC....7 | 50.19.0102 | 69 T841    |                                    | ADI,MPS                 |
| IC....8 | 50.17.1895 | 74HC595    |                                    | NS,SGS,TI               |
| IC....9 | 50.17.1008 | 74HC08     |                                    | Mot,NS,Ph,RCA,SGS,TI,To |
| P....1  | 54.11.2004 | Connector  | 2*32 Euro Print                    |                         |
| Q....1  | 50.03.1505 | VN 0808    | VN 0108                            | Fe,Six                  |
| R....1  | 57.11.3242 | 2,4 kOhm   | 2k                                 |                         |
| R....2  | 57.11.3512 | 5,1 kOhm   | 5k                                 |                         |
| R....3  | 57.11.3101 | 100 Ohm    | 2k                                 |                         |
| R....4  | 57.11.3102 | 1 kOhm     | 5k                                 |                         |
| R....5  | 57.11.3104 | 100 kOhm   | 1k                                 |                         |
| R....6  | 57.11.3103 | 10 kOhm    | 5k                                 |                         |
| R....7  | 57.11.3391 | 390 Ohm    | 5k                                 |                         |
| R....8  | 57.11.3104 | 100 kOhm   | 1k                                 |                         |
| R....9  | 57.11.3104 | 100 kOhm   | 1k                                 |                         |
| RA....1 | 58.05.0501 | 500 Ohm    | Potentiometer 22-turn, 10k, linear |                         |
| TP....1 | 54.02.0320 | Testpoint  |                                    |                         |
| TP....2 | 54.02.0320 | Testpoint  |                                    |                         |
| TP....3 | 54.02.0320 | Testpoint  |                                    |                         |

(01) 89/09/11 Decrease of rise time D-PDATA signal.

SaI=Solid Aluminium, PETP=Polyesterfilm.

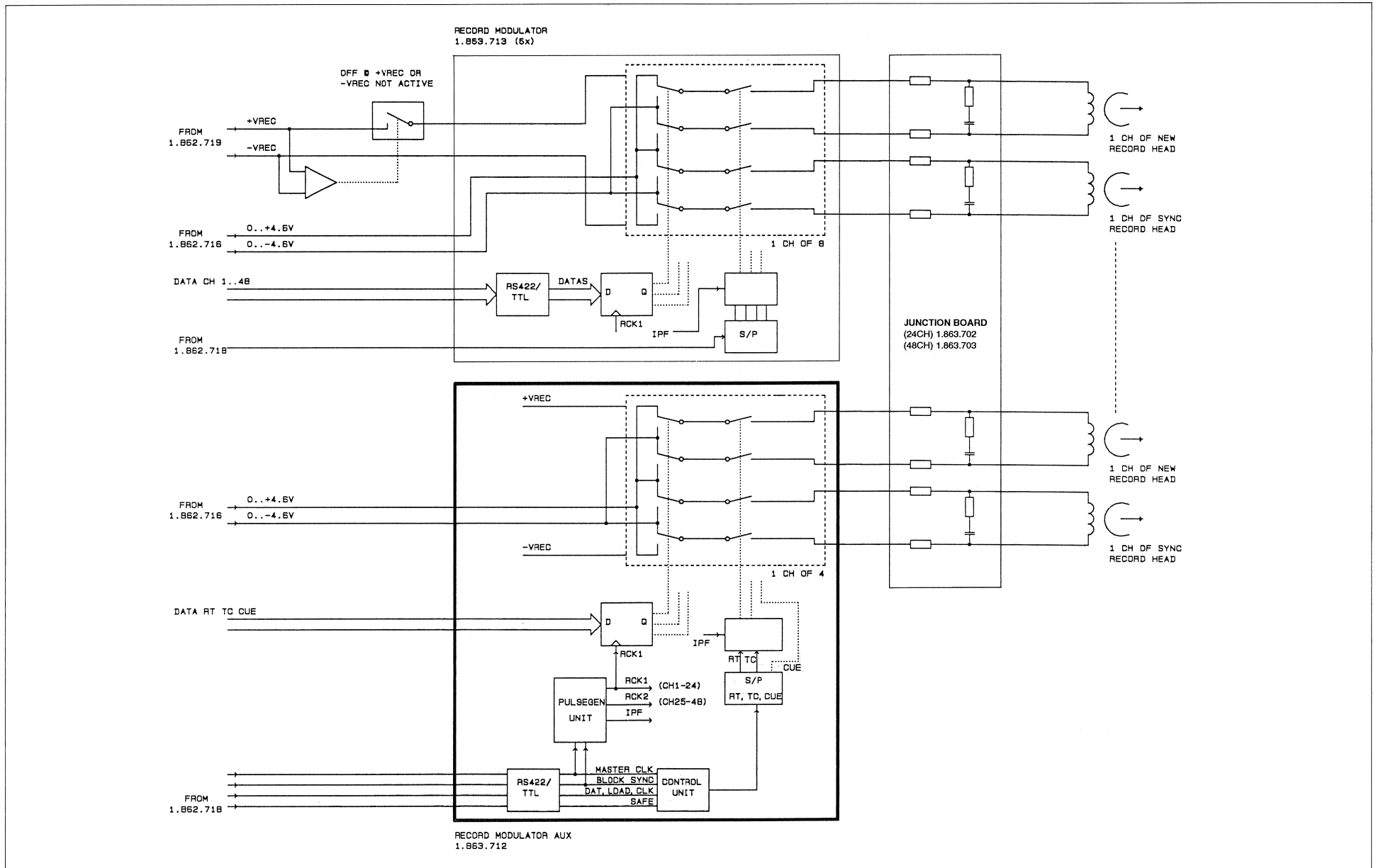
MANUFACTURER: ADI=Analogue Devices Corp., Fe=Ferranti, Ex=Exar, Mo=Motorola, MP=Micro Power Systems, NS=National Semiconductors, Ph=Philips, Ra=Raytheon, RCA=Radio Corporation of America, SGS=SGS/Ates, Sig=Signetics, St=Siliconix, TI= Texas Instruments, To=Toshiba.

|              |                      |               |
|--------------|----------------------|---------------|
| 1.862.720.00 | REPRODUCE CONTROLLER | LP 89/04/1200 |
| 1.862.720.00 | REPRODUCE CONTROLLER | LP 89/09/1101 |

STUDER D827 MCH

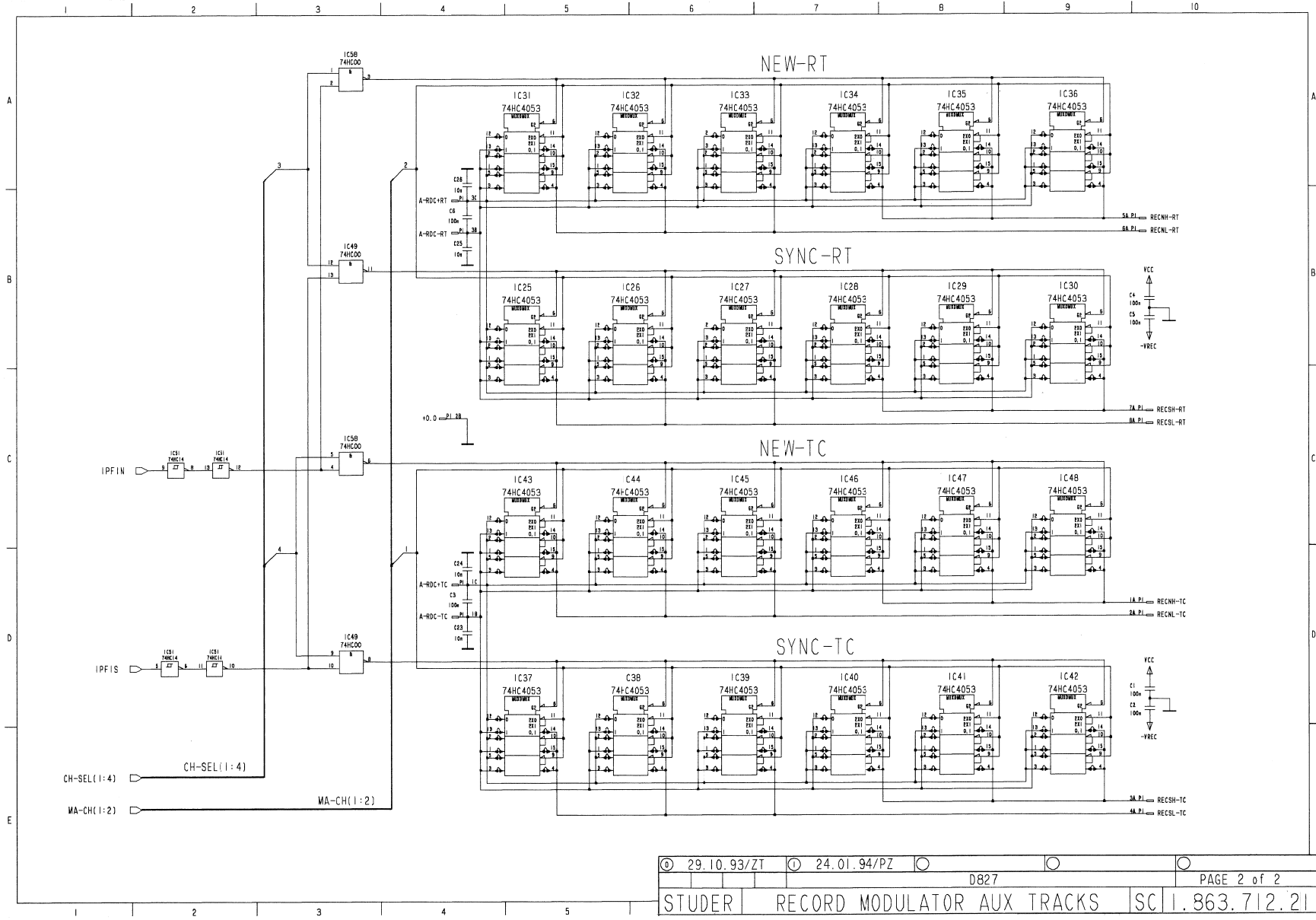
BLOCK DIAGRAM

Record Modulator Aux Tracks 1.863.712





RECORD MODULATOR AUX TRACKS 1.863.712.21

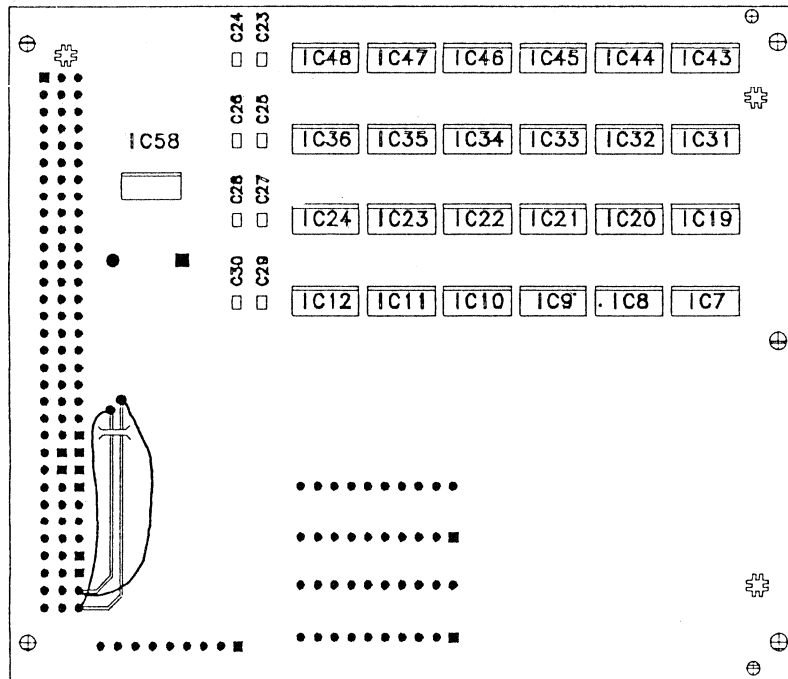


|                 |               |   |                             |   |
|-----------------|---------------|---|-----------------------------|---|
| © 29.10.93/ZT   | © 24.01.94/PZ | ○ | ○                           | ○ |
| STUDER          |               |   | RECORD MODULATOR AUX TRACKS |   |
| D827            |               |   | PAGE 2 of 2                 |   |
| SC 1.863.712.21 |               |   |                             |   |



RECORD MODULATOR AUX TRACKS 1.863.712.21

soldering side

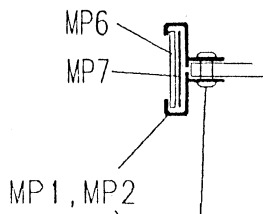


LEITERBAHNEN AUFGETRETT UND MIT WRAP-DRAHT NEU VERBUNDEN. AENDERUNG GILT NUR FUER PRINTPLATTE -11.

|              |          |    |     |     |   |
|--------------|----------|----|-----|-----|---|
| Modification |          |    |     |     | ③ |
| Amendment    |          |    |     |     | ② |
| ①            |          |    |     |     | ① |
| Edition      | 29.10.93 | ZT | HAE | HAE | ⑤ |
| Output       |          |    |     |     |   |
| Date         |          |    |     |     |   |
| Datum        |          |    |     |     |   |
| Visa         |          |    |     |     |   |
| Gez.         |          |    |     |     |   |
| Gepr.        |          |    |     |     |   |
| Seen         |          |    |     |     |   |
| Ges.         |          |    |     |     |   |
| Index        |          |    |     |     |   |

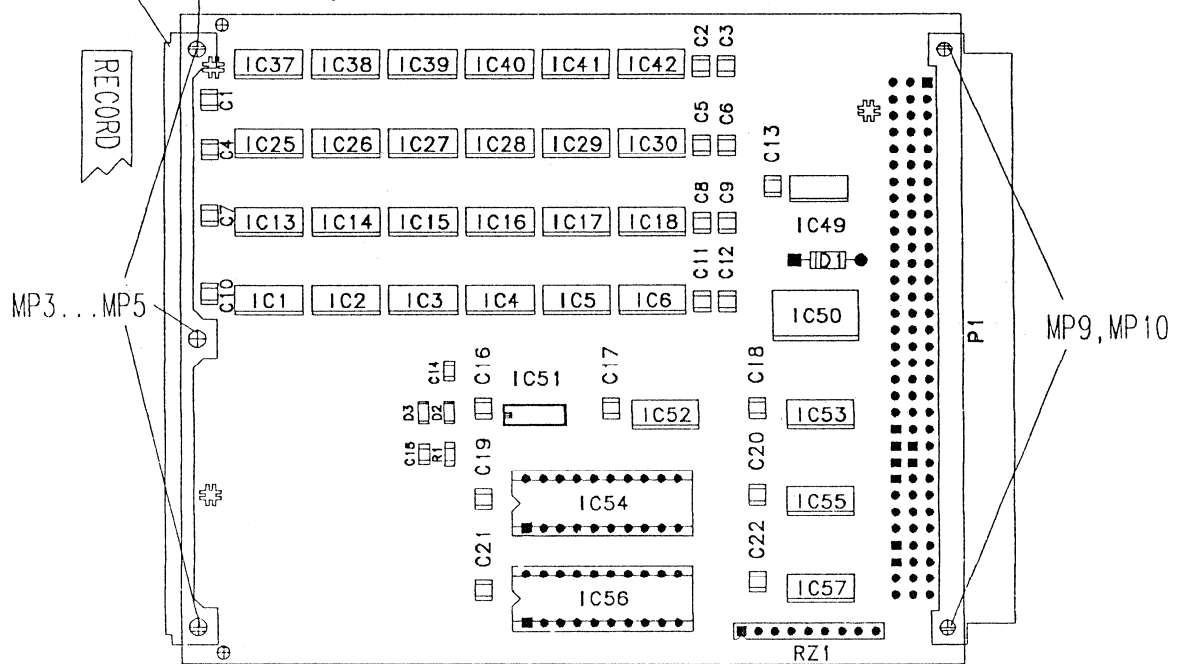
|             |              |
|-------------|--------------|
| Copy to:    |              |
| Kopie fuer: |              |
| Number:     | 1.863.712-21 |

STUDEA REGENSDORF Description: RECORD MODULATOR AUX TRACKS, ESE



MP1, MP2

component side





RECORD MODULATOR AUX TRACKS 1.863.712.21

| Idx. | Pos.  | Part No.   | Qty.    | Type/Val. | Description             | Idx. | Pos.   | Part No.     | Qty. | Type/Val. | Description  |
|------|-------|------------|---------|-----------|-------------------------|------|--------|--------------|------|-----------|--|
| 0    | C 1   | 59.60.1104 | 100n    |           | CER 63V, 10%, X7R, 1210 | 0    | IC 53  | 50.62.0461   |      |           | IC DS 26C 32ATM                                      |
| 0    | C 2   | 59.60.1104 | 100n    |           | CER 63V, 10%, X7R, 1210 | 0    | IC 54  | 50.18.0100   |      | PLD16V8   | IC 16 V 8A - 25 LP .A<br>16 V 8 - 25 LP 1.863.921.21 |
| 0    | C 3   | 59.60.1104 | 100n    |           | CER 63V, 10%, X7R, 1210 | 0    | IC 55  | 50.62.0461   |      |           | IC DS 26C 32ATM                                      |
| 0    | C 4   | 59.60.1104 | 100n    |           | CER 63V, 10%, X7R, 1210 | 0    | IC 56  | 50.18.0100   |      | PLD16V0   | IC 16 V 8A - 25 LP .A<br>16 V 8 - 25 LP 1.863.920.20 |
| 0    | C 5   | 59.60.1104 | 100n    |           | CER 63V, 10%, X7R, 1210 | 0    | IC 57  | 50.62.1595   |      | 74HC595   | IC .. 74 HC 595 . .A                                 |
| 0    | C 6   | 59.60.1104 | 100n    |           | CER 63V, 10%, X7R, 1210 | 0    | IC 58  | 50.62.1000   |      | 74HC 00   | IC .. 74 HC 00 . .A                                  |
| 0    | C 7   | 59.60.1104 | 100n    |           | CER 63V, 10%, X7R, 1210 | 0    | MP 1   | 1.010.006.33 | mp   | Handle    | GRIFFHAELFTE   |
| 0    | C 8   | 59.60.1104 | 100n    |           | CER 63V, 10%, X7R, 1210 | 0    | MP 2   | 1.010.006.33 | mp   | Handle    | GRIFFHAELFTE   |
| 0    | C 9   | 59.60.1104 | 100n    |           | CER 63V, 10%, X7R, 1210 | 0    | MP 3   | 28.21.1370   | mp   |           | ROHRNIETE, D2.25* 5.5                                |
| 0    | C 10  | 59.60.1104 | 100n    |           | CER 63V, 10%, X7R, 1210 | 0    | MP 4   | 28.21.1370   | mp   |           | ROHRNIETE, D2.25* 5.5                                |
| 0    | C 11  | 59.60.1104 | 100n    |           | CER 63V, 10%, X7R, 1210 | 0    | MP 5   | 28.21.1370   | mp   |           | ROHRNIETE, D2.25* 5.5                                |
| 0    | C 12  | 59.60.1104 | 100n    |           | CER 63V, 10%, X7R, 1210 | 0    | MP 6   | 1.010.096.49 | mp   |           | KLARSICHTSCHILD                                      |
| 0    | C 13  | 59.60.1104 | 100n    |           | CER 63V, 10%, X7R, 1210 | 0    | MP 7   | 1.863.712.01 | mp   |           | BEZ.STREIFEN 6,3 * 91                                |
| 0    | C 14  | 59.60.0102 | 1n      |           | CER 63V, 5%, C0G, 1206  | 0    | MP 8   | 43.01.0108   | mp   | Label     | ESE-WARNSCHILD                                       |
| 0    | C 15  | 59.60.0102 | 1n      |           | CER 63V, 5%, C0G, 1206  | 0    | MP 9   | 28.99.0119   | mp   |           | ROHRNIETE D 2.5*0.15* 9                              |
| 0    | C 16  | 59.60.1104 | 100n    |           | CER 63V, 10%, X7R, 1210 | 0    | MP 10  | 28.99.0119   | mp   |           | ROHRNIETE D 2.5*0.15* 9                              |
| 0    | C 17  | 59.60.1104 | 100n    |           | CER 63V, 10%, X7R, 1210 | 0    | MP 11  | 1.863.712.12 | mp   |           | RECORD MODULATOR AUX TR PCB                          |
| 0    | C 18  | 59.60.1104 | 100n    |           | CER 63V, 10%, X7R, 1210 | 0    | MP 12  | 1.101.001.20 | mp   | Label     | TEXT-ETIK. 5*20 HARDWARE -20                         |
| 0    | C 19  | 59.60.1104 | 100n    |           | CER 63V, 10%, X7R, 1210 | 0    | P 1    | 54.01.0358   |      | 96-P      | P EU-C 3 * 32  |
| 0    | C 20  | 59.60.1104 | 100n    |           | CER 63V, 10%, X7R, 1210 | 0    | R 1    | 57.60.1472   |      | 4K7       | MF, 1%, 0204, E24                                    |
| 0    | C 21  | 59.60.1104 | 100n    |           | CER 63V, 10%, X7R, 1210 | 0    | RZ 1   | 57.88.4103   |      | 8*10k     | 2%, SIP 9  |
| 0    | C 22  | 59.60.1104 | 100n    |           | CER 63V, 10%, X7R, 1210 | 0    | XIC 54 | 53.03.0165   |      | 20p       | DIL 0.3", lot, gerade                                |
| 0    | C 23  | 59.60.1103 | 10n     |           | CER 63V, 10%, X7R, 0805 | 0    | XIC 56 | 53.03.0165   |      | 20p       | DIL 0.3", lot, gerade                                |
| 0    | C 24  | 59.60.1103 | 10n     |           | CER 63V, 10%, X7R, 0805 |      |        |              |      |           |  |
| 0    | C 25  | 59.60.1103 | 10n     |           | CER 63V, 10%, X7R, 0805 |      |        |              |      |           |  |
| 0    | C 26  | 59.60.1103 | 10n     |           | CER 63V, 10%, X7R, 0805 |      |        |              |      |           |  |
| 0    | C 27  | 59.60.1103 | 10n     |           | CER 63V, 10%, X7R, 0805 |      |        |              |      |           |  |
| 0    | C 28  | 59.60.1103 | 10n     |           | CER 63V, 10%, X7R, 0805 |      |        |              |      |           |  |
| 0    | C 29  | 59.60.1103 | 10n     |           | CER 63V, 10%, X7R, 0805 |      |        |              |      |           |  |
| 0    | C 30  | 59.60.1103 | 10n     |           | CER 63V, 10%, X7R, 0805 |      |        |              |      |           |  |
| 0    | D 1   | 50.04.0512 | 1N5818  |           | D 1N 5818, 1N 5819.     |      |        |              |      |           |  |
| 0    | D 2   | 50.60.8001 | 4448    |           | D LL 4448 SOD 80        |      |        |              |      |           |  |
| 0    | D 3   | 50.60.8001 | 4448    |           | D LL 4448 SOD 80        |      |        |              |      |           |  |
| 0    | IC 1  | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 2  | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 3  | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 4  | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 5  | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 6  | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 7  | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 8  | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 9  | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 10 | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 11 | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 12 | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 13 | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 14 | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 15 | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 16 | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 17 | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 18 | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 19 | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 20 | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 21 | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 22 | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 23 | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 24 | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 25 | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 26 | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 27 | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 28 | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 29 | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 30 | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 31 | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 32 | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 33 | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 34 | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 35 | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 36 | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 37 | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 38 | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 39 | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 40 | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 41 | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 42 | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 43 | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 44 | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 45 | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 46 | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 47 | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 48 | 50.62.8053 | 4053    |           | IC .. 74 HC 4053 . .A   |      |        |              |      |           |  |
| 0    | IC 49 | 50.62.1000 | 74HC 00 |           | IC .. 74 HC 00 . .A     |      |        |              |      |           |  |
| 0    | IC 50 | 50.62.1574 | 74HC574 |           | IC .. 74 HC 574 . .A    |      |        |              |      |           |  |
| 0    | IC 51 | 50.62.1014 | 74HC 14 |           | IC .. 74 HC 14 . .A     |      |        |              |      |           |  |
| 0    | IC 52 | 50.62.0461 |         |           | IC DS 26C 32ATM         |      |        |              |      |           |  |

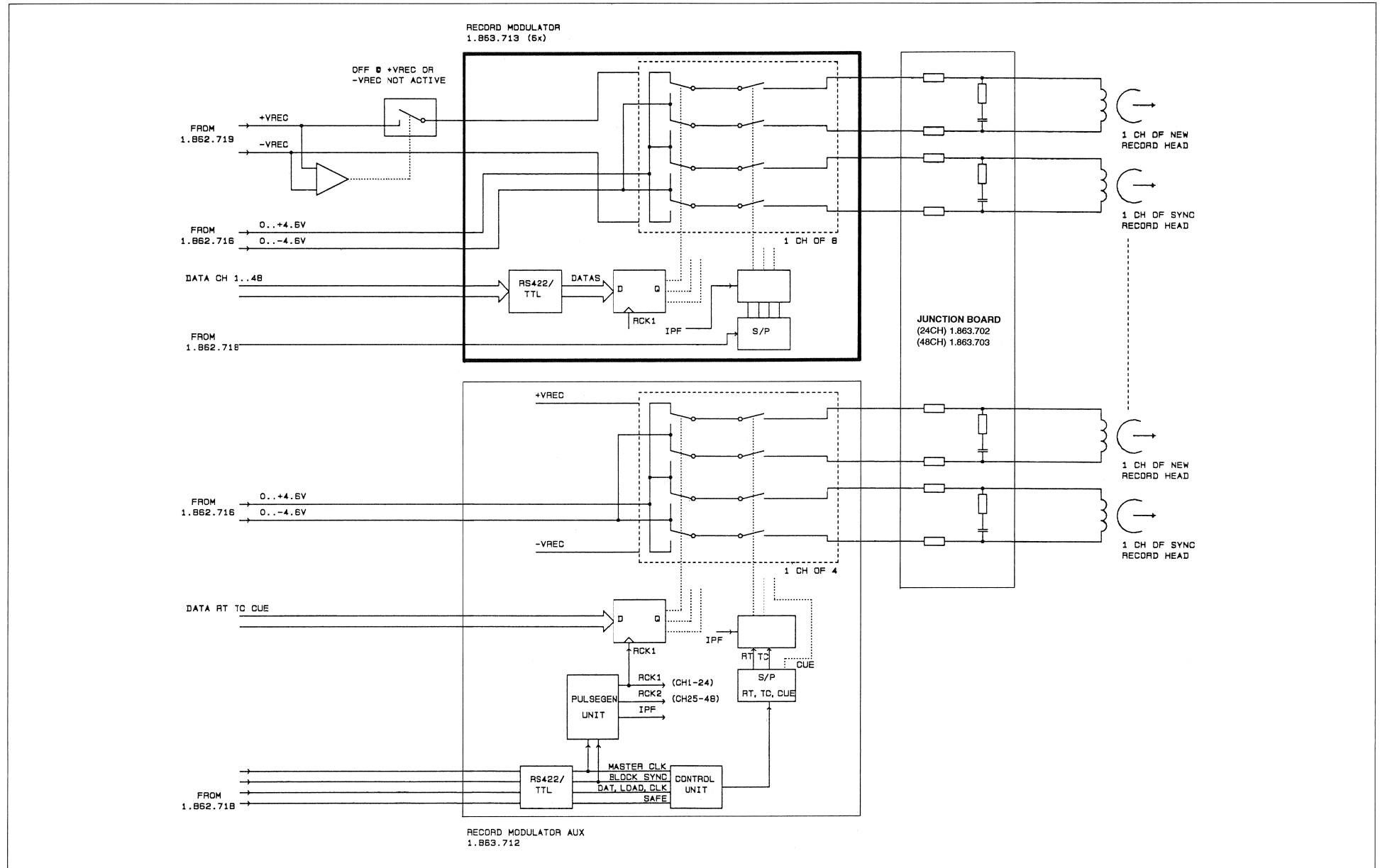
End of List

Comments:

STUDER D827 MCH

BLOCK DIAGRAM

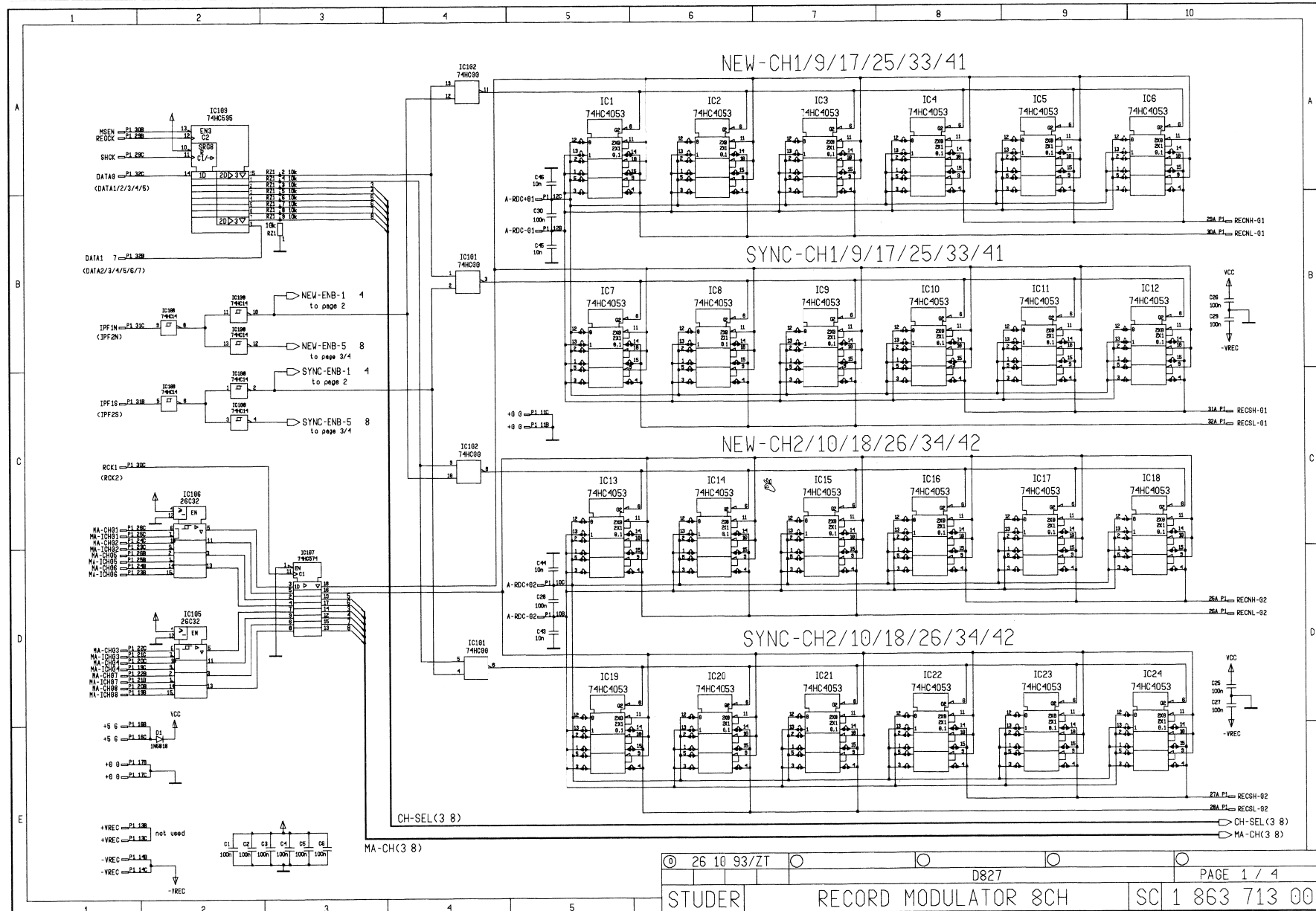
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STUDER D827 MCH



RECORD MODULATOR 8CH 1.863.713.00

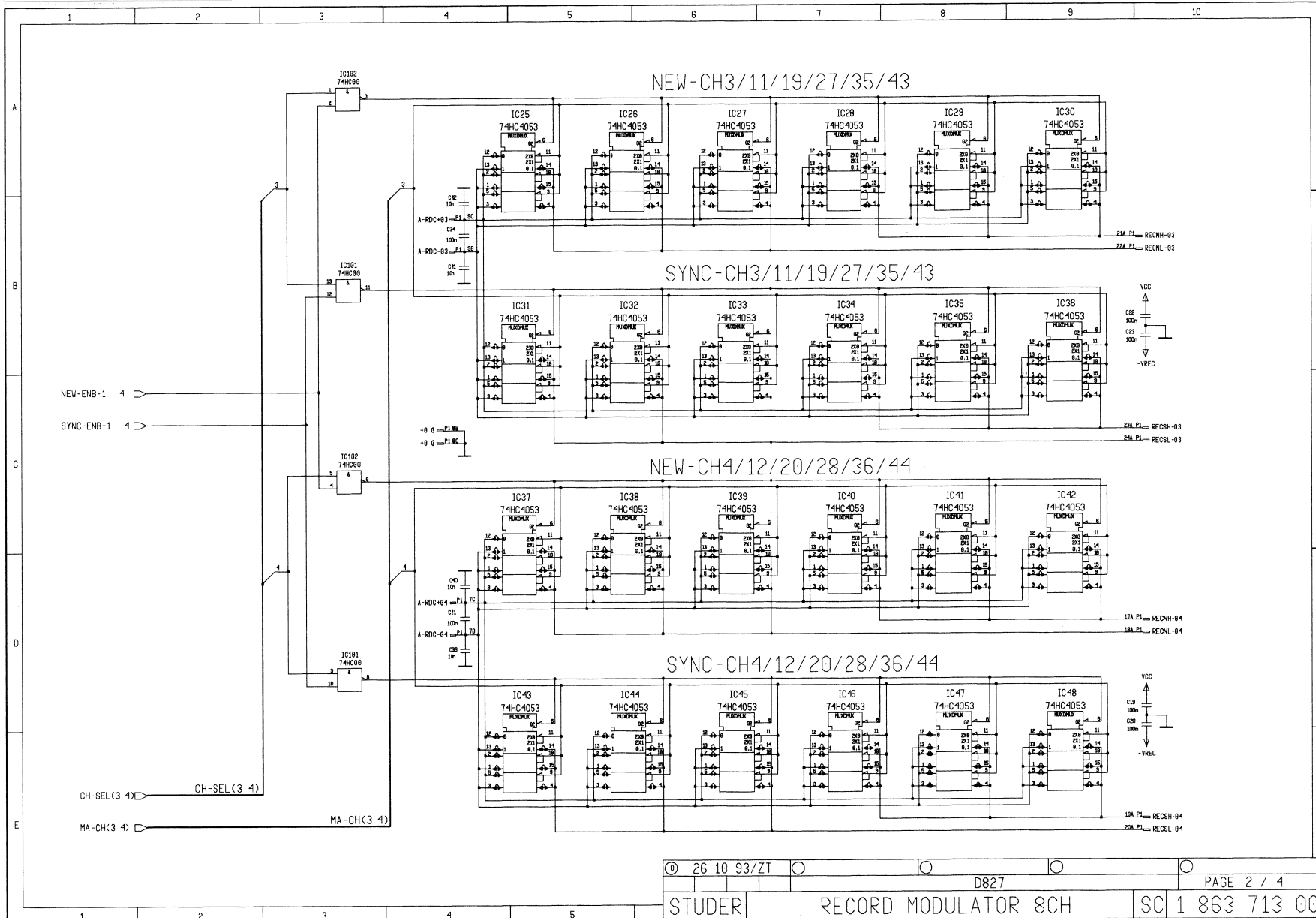




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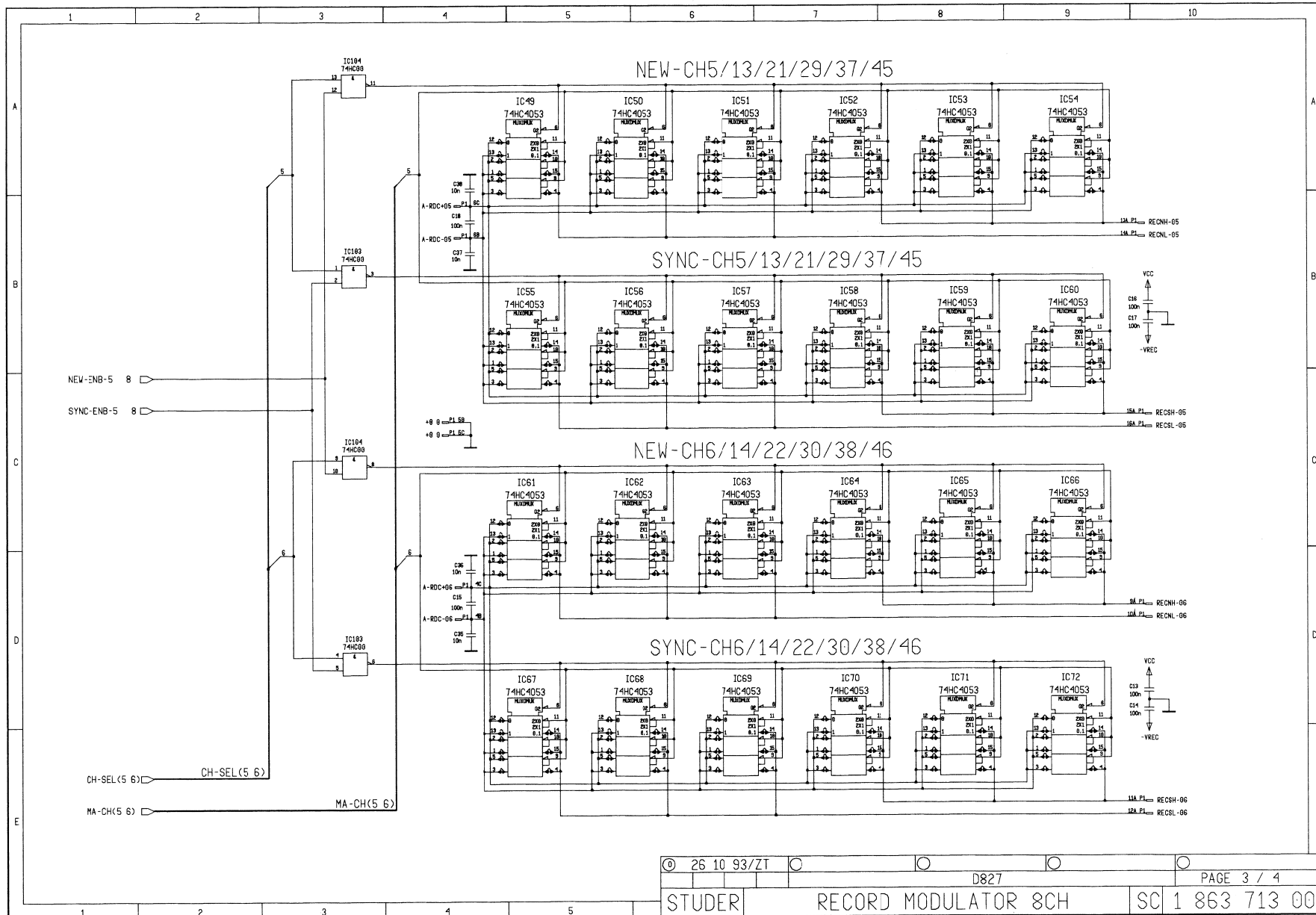
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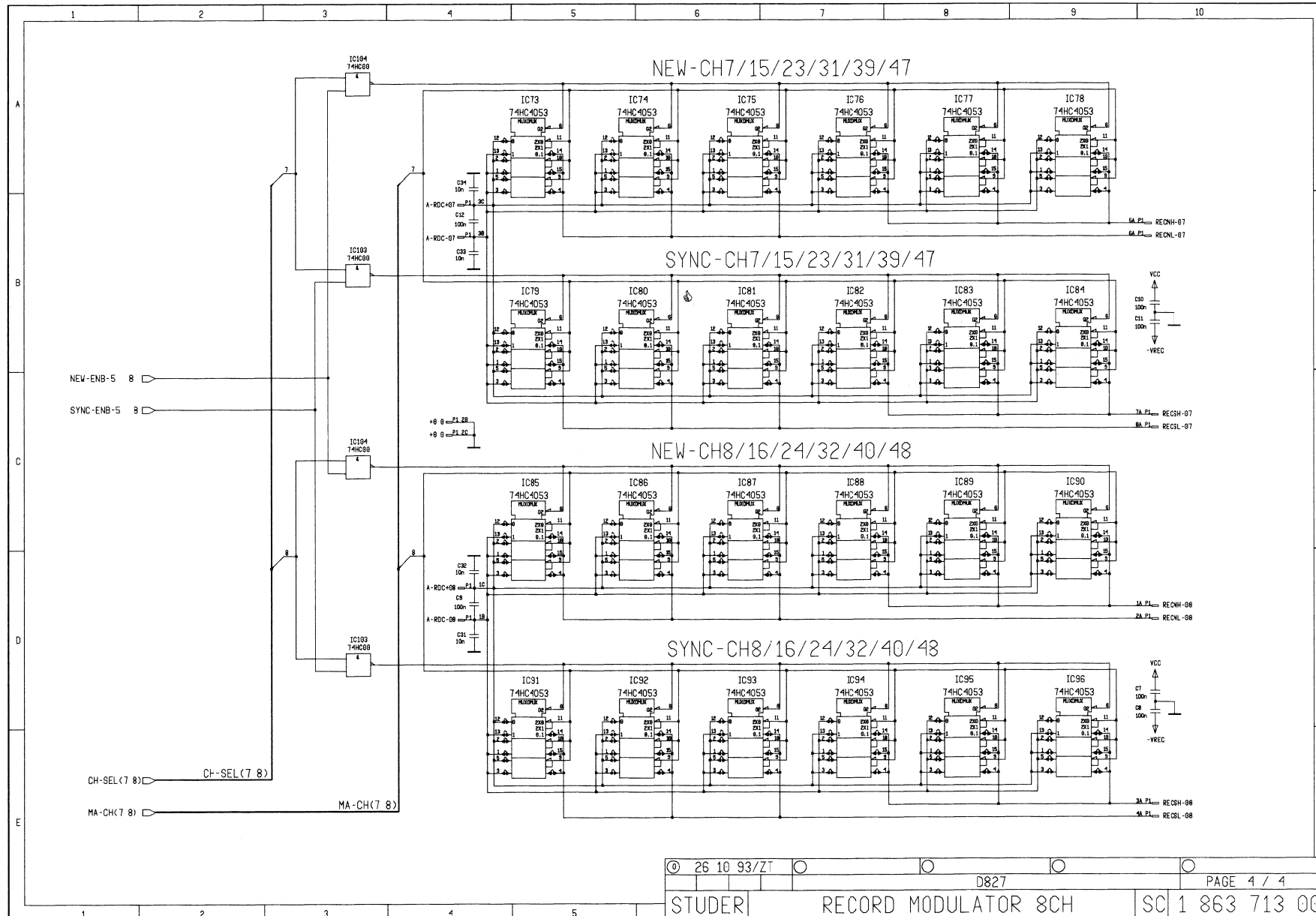
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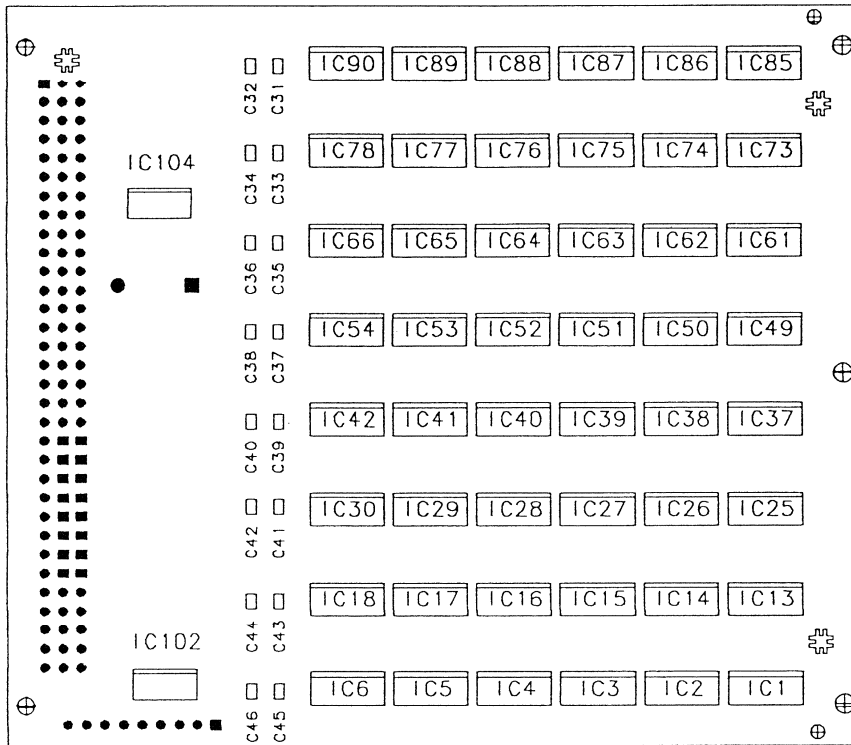
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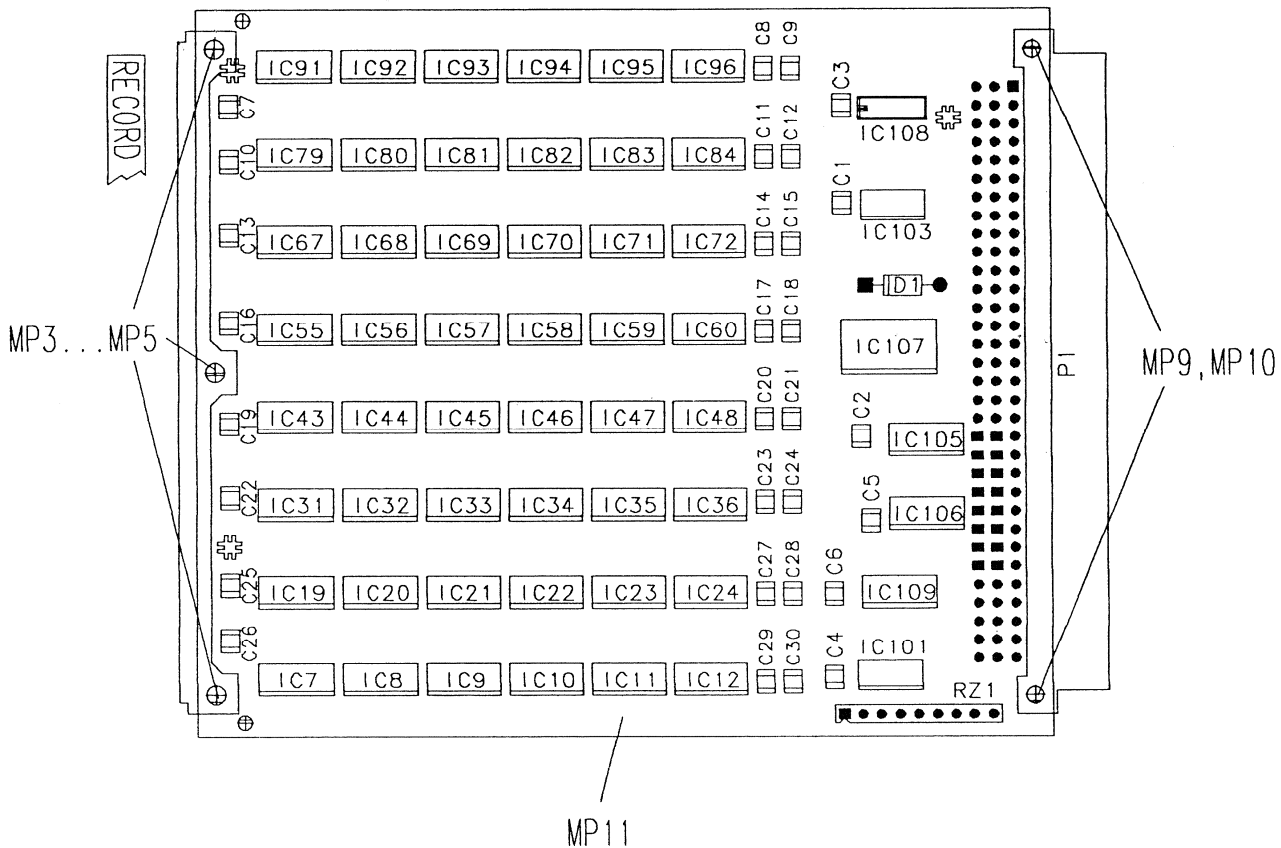
soldering side



|           |                 |       |      |  |  |
|-----------|-----------------|-------|------|--|--|
| Erst. von | Modif. Funktion |       |      |  |  |
|           |                 |       |      |  |  |
| 26.10.93  | ZT              | HAE   | HAE  |  |  |
| Date      | Viso            | Decon | Seen |  |  |
| Date      | Get             | Oppr  | Get  |  |  |
| Copy to:  | Kopie fuer: .   |       |      |  |  |
| Number:   | 1.863.713-00    |       |      |  |  |

STUDER REGENSDORF RECORD MODULATOR 8CH ESE

component side





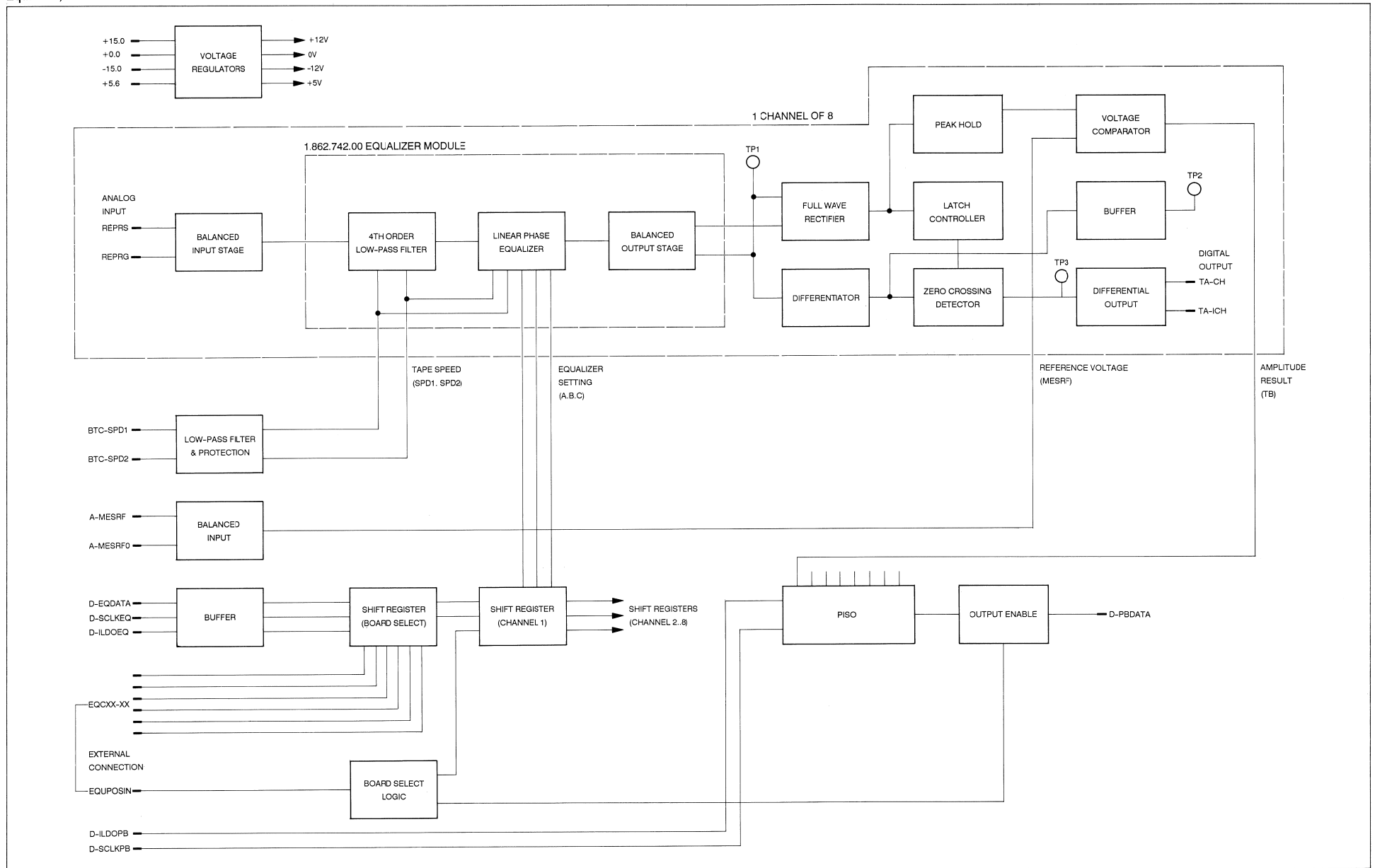
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| Ad      | ..POS..    | ..REF.No.. | DESCRIPTION.....  | MANUFACTURER | Ad       | ..POS..      | ..REF.No.. | DESCRIPTION.....                   | MANUFACTURER |
|---------|------------|------------|-------------------|--------------|----------|--------------|------------|------------------------------------|--------------|
| C....1  | 59.60.1104 | 100 N      | 10%, X7R , CER    |              | IC...51  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....2  | 59.60.1104 | 100 N      | 10%, X7R , CER    |              | IC...52  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....3  | 59.60.1104 | 100 N      | 10%, X7R , CER    |              | IC...53  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....4  | 59.60.1104 | 100 N      | 10%, X7R , CER    |              | IC...54  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....5  | 59.60.1104 | 100 N      | 10%, X7R , CER    |              | IC...55  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....6  | 59.60.1104 | 100 N      | 10%, X7R , CER    |              | IC...56  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....7  | 59.60.1104 | 100 N      | 10%, X7R , CER    |              | IC...57  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....8  | 59.60.1104 | 100 N      | 10%, X7R , CER    |              | IC...58  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....9  | 59.60.1104 | 100 N      | 10%, X7R , CER    |              | IC...59  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....10 | 59.60.1104 | 100 N      | 10%, X7R , CER    |              | IC...60  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....11 | 59.60.1104 | 100 N      | 10%, X7R , CER    |              | IC...61  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....12 | 59.60.1104 | 100 N      | 10%, X7R , CER    |              | IC...62  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....13 | 59.60.1104 | 100 N      | 10%, X7R , CER    |              | IC...63  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....14 | 59.60.1104 | 100 N      | 10%, X7R , CER    |              | IC...64  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....15 | 59.60.1104 | 100 N      | 10%, X7R , CER    |              | IC...65  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....16 | 59.60.1104 | 100 N      | 10%, X7R , CER    |              | IC...66  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....17 | 59.60.1104 | 100 N      | 10%, X7R , CER    |              | IC...67  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....18 | 59.60.1104 | 100 N      | 10%, X7R , CER    |              | IC...68  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....19 | 59.60.1104 | 100 N      | 10%, X7R , CER    |              | IC...69  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....20 | 59.60.1104 | 100 N      | 10%, X7R , CER    |              | IC...70  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....21 | 59.60.1104 | 100 N      | 10%, X7R , CER    |              | IC...71  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....22 | 59.60.1104 | 100 N      | 10%, X7R , CER    |              | IC...72  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....23 | 59.60.1104 | 100 N      | 10%, X7R , CER    |              | IC...73  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....24 | 59.60.1104 | 100 N      | 10%, X7R , CER    |              | IC...74  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....25 | 59.60.1104 | 100 N      | 10%, X7R , CER    |              | IC...75  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....26 | 59.60.1104 | 100 N      | 10%, X7R , CER    |              | IC...76  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....27 | 59.60.1104 | 100 N      | 10%, X7R , CER    |              | IC...77  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....28 | 59.60.1104 | 100 N      | 10%, X7R , CER    |              | IC...78  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....29 | 59.60.1104 | 100 N      | 10%, X7R , CER    |              | IC...79  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....30 | 59.60.1104 | 100 N      | 10%, X7R , CER    |              | IC...80  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....31 | 59.60.1103 | 10 N       | 10%, X7R , CER    |              | IC...81  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....32 | 59.60.1103 | 10 N       | 10%, X7R , CER    |              | IC...82  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....33 | 59.60.1103 | 10 N       | 10%, X7R , CER    |              | IC...83  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....34 | 59.60.1103 | 10 N       | 10%, X7R , CER    |              | IC...84  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....35 | 59.60.1103 | 10 N       | 10%, X7R , CER    |              | IC...85  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....36 | 59.60.1103 | 10 N       | 10%, X7R , CER    |              | IC...86  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....37 | 59.60.1103 | 10 N       | 10%, X7R , CER    |              | IC...87  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....38 | 59.60.1103 | 10 N       | 10%, X7R , CER    |              | IC...88  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....39 | 59.60.1103 | 10 N       | 10%, X7R , CER    |              | IC...89  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....40 | 59.60.1103 | 10 N       | 10%, X7R , CER    |              | IC...90  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....41 | 59.60.1103 | 10 N       | 10%, X7R , CER    |              | IC...91  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....42 | 59.60.1103 | 10 N       | 10%, X7R , CER    |              | IC...92  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....43 | 59.60.1103 | 10 N       | 10%, X7R , CER    |              | IC...93  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....44 | 59.60.1103 | 10 N       | 10%, X7R , CER    |              | IC...94  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....45 | 59.60.1103 | 10 N       | 10%, X7R , CER    |              | IC...95  | 50.62.8053   |            | 74 HC 4053                         |              |
| C....46 | 59.60.1103 | 10 N       | 10%, X7R , CER    |              | IC...96  | 50.62.8053   |            | 74 HC 4053                         |              |
| D....1  | 50.04.0512 | 1N5818     | ,, D041, SCHOTTKY |              | IC...101 | 50.62.1000   |            | 74 HC 00                           |              |
| IC...1  | 50.62.8053 |            | 74 HC 4053        |              | IC...102 | 50.62.1000   |            | 74 HC 00                           |              |
| IC...2  | 50.62.8053 |            | 74 HC 4053        |              | IC...103 | 50.62.1000   |            | 74 HC 00                           |              |
| IC...3  | 50.62.8053 |            | 74 HC 4053        |              | IC...104 | 50.62.1000   |            | 74 HC 00                           |              |
| IC...4  | 50.62.8053 |            | 74 HC 4053        |              | IC...105 | 50.62.0461   |            | DS 26C 32ATM                       |              |
| IC...5  | 50.62.8053 |            | 74 HC 4053        |              | IC...106 | 50.62.0461   |            | DS 26C 32ATM                       |              |
| IC...6  | 50.62.8053 |            | 74 HC 4053        |              | IC...107 | 50.62.1574   |            | 74 HC 574                          |              |
| IC...7  | 50.62.8053 |            | 74 HC 4053        |              | IC...108 | 50.62.1014   |            | 74 HC 14                           |              |
| IC...8  | 50.62.8053 |            | 74 HC 4053        |              | IC...109 | 50.62.1595   |            | 74HC595                            |              |
| IC...9  | 50.62.8053 |            | 74 HC 4053        |              | MP...1   | 1.010.006.33 |            | GRIFFHAELFTE                       |              |
| IC...10 | 50.62.8053 |            | 74 HC 4053        |              | MP...2   | 1.010.006.33 |            | GRIFFHAELFTE                       |              |
| IC...11 | 50.62.8053 |            | 74 HC 4053        |              | MP...3   | 28.21.1370   |            | ROHRNIETE, 02.25* 5.5              |              |
| IC...12 | 50.62.8053 |            | 74 HC 4053        |              | MP...4   | 28.21.1370   |            | ROHRNIETE, 02.25* 5.5              |              |
| IC...13 | 50.62.8053 |            | 74 HC 4053        |              | MP...5   | 28.21.1370   |            | ROHRNIETE, 02.25* 5.5              |              |
| IC...14 | 50.62.8053 |            | 74 HC 4053        |              | MP...6   | 1.010.096.49 |            | KLARSICHTSCHILD                    |              |
| IC...15 | 50.62.8053 |            | 74 HC 4053        |              | MP...7   | 1.863.713.01 |            | BEZ. STREIFEN                      |              |
| IC...16 | 50.62.8053 |            | 74 HC 4053        |              | MP...8   | 43.01.0108   |            | ESE-WARNSCHILD                     |              |
| IC...17 | 50.62.8053 |            | 74 HC 4053        |              | MP...9   | 28.99.0119   |            | ROHRNIETE D 2.5*0.15* 9            |              |
| IC...18 | 50.62.8053 |            | 74 HC 4053        |              | MP...10  | 28.99.0119   |            | ROHRNIETE D 2.5*0.15* 9            |              |
| IC...19 | 50.62.8053 |            | 74 HC 4053        |              | MP...11  | 1.863.713.11 |            | EMPTY PCB                          |              |
| IC...20 | 50.62.8053 |            | 74 HC 4053        |              | P....1   | 54.01.0358   | 96-P       | MALE, ANG., 54010354, P-EU-C 3*32P |              |
| IC...21 | 50.62.8053 |            | 74 HC 4053        |              | RZ...1   | 57.88.4103   | 10k        | 0.125W, 2%, SIP09, 8 * 10K         |              |
| IC...22 | 50.62.8053 |            | 74 HC 4053        |              |          |              |            |                                    |              |
| IC...23 | 50.62.8053 |            | 74 HC 4053        |              |          |              |            |                                    |              |
| IC...24 | 50.62.8053 |            | 74 HC 4053        |              |          |              |            |                                    |              |
| IC...25 | 50.62.8053 |            | 74 HC 4053        |              |          |              |            |                                    |              |
| IC...26 | 50.62.8053 |            | 74 HC 4053        |              |          |              |            |                                    |              |
| IC...27 | 50.62.8053 |            | 74 HC 4053        |              |          |              |            |                                    |              |
| IC...28 | 50.62.8053 |            | 74 HC 4053        |              |          |              |            |                                    |              |
| IC...29 | 50.62.8053 |            | 74 HC 4053        |              |          |              |            |                                    |              |
| IC...30 | 50.62.8053 |            | 74 HC 4053        |              |          |              |            |                                    |              |
| IC...31 | 50.62.8053 |            | 74 HC 4053        |              |          |              |            |                                    |              |
| IC...32 | 50.62.8053 |            | 74 HC 4053        |              |          |              |            |                                    |              |
| IC...33 | 50.62.8053 |            | 74 HC 4053        |              |          |              |            |                                    |              |
| IC...34 | 50.62.8053 |            | 74 HC 4053        |              |          |              |            |                                    |              |
| IC...35 | 50.62.8053 |            | 74 HC 4053        |              |          |              |            |                                    |              |
| IC...36 | 50.62.8053 |            | 74 HC 4053        |              |          |              |            |                                    |              |
| IC...37 | 50.62.8053 |            | 74 HC 4053        |              |          |              |            |                                    |              |
| IC...38 | 50.62.8053 |            | 74 HC 4053        |              |          |              |            |                                    |              |
| IC...39 | 50.62.8053 |            | 74 HC 4053        |              |          |              |            |                                    |              |
| IC...40 | 50.62.8053 |            | 74 HC 4053        |              |          |              |            |                                    |              |
| IC...41 | 50.62.8053 |            | 74 HC 4053        |              |          |              |            |                                    |              |
| IC...42 | 50.62.8053 |            | 74 HC 4053        |              |          |              |            |                                    |              |
| IC...43 | 50.62.8053 |            | 74 HC 4053        |              |          |              |            |                                    |              |
| IC...44 | 50.62.8053 |            | 74 HC 4053        |              |          |              |            |                                    |              |
| IC...45 | 50.62.8053 |            | 74 HC 4053        |              |          |              |            |                                    |              |
| IC...46 | 50.62.8053 |            | 74 HC 4053        |              |          |              |            |                                    |              |
| IC...47 | 50.62.8053 |            | 74 HC 4053        |              |          |              |            |                                    |              |
| IC...48 | 50.62.8053 |            | 74 HC 4053        |              |          |              |            |                                    |              |
| IC...49 | 50.62.8053 |            | 74 HC 4053        |              |          |              |            |                                    |              |
| IC...50 | 50.62.8053 |            | 74 HC 4053        |              |          |              |            |                                    |              |

END

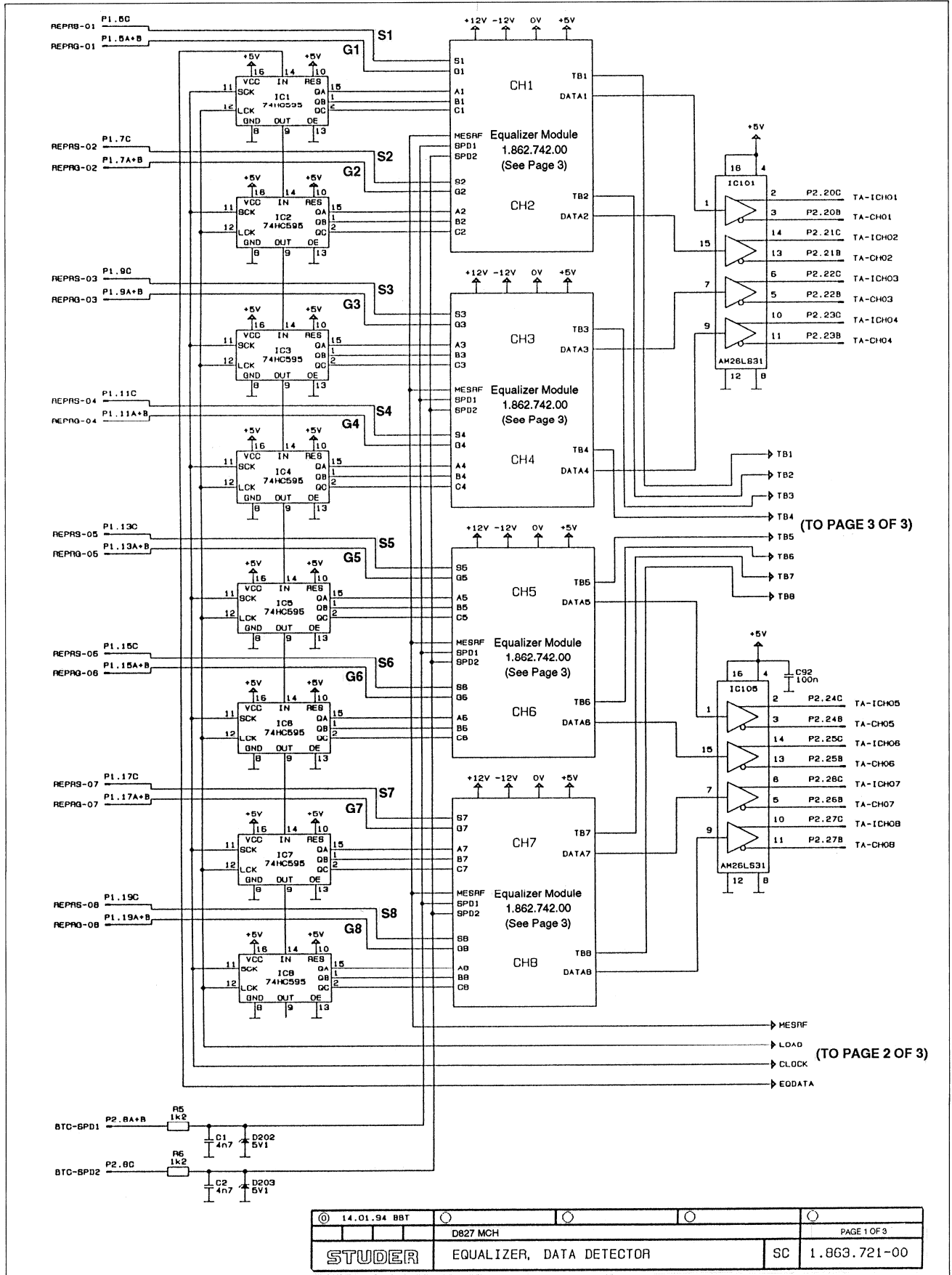
**BLOCK DIAGRAM**

Equalizer, Data Detector 1.863.721





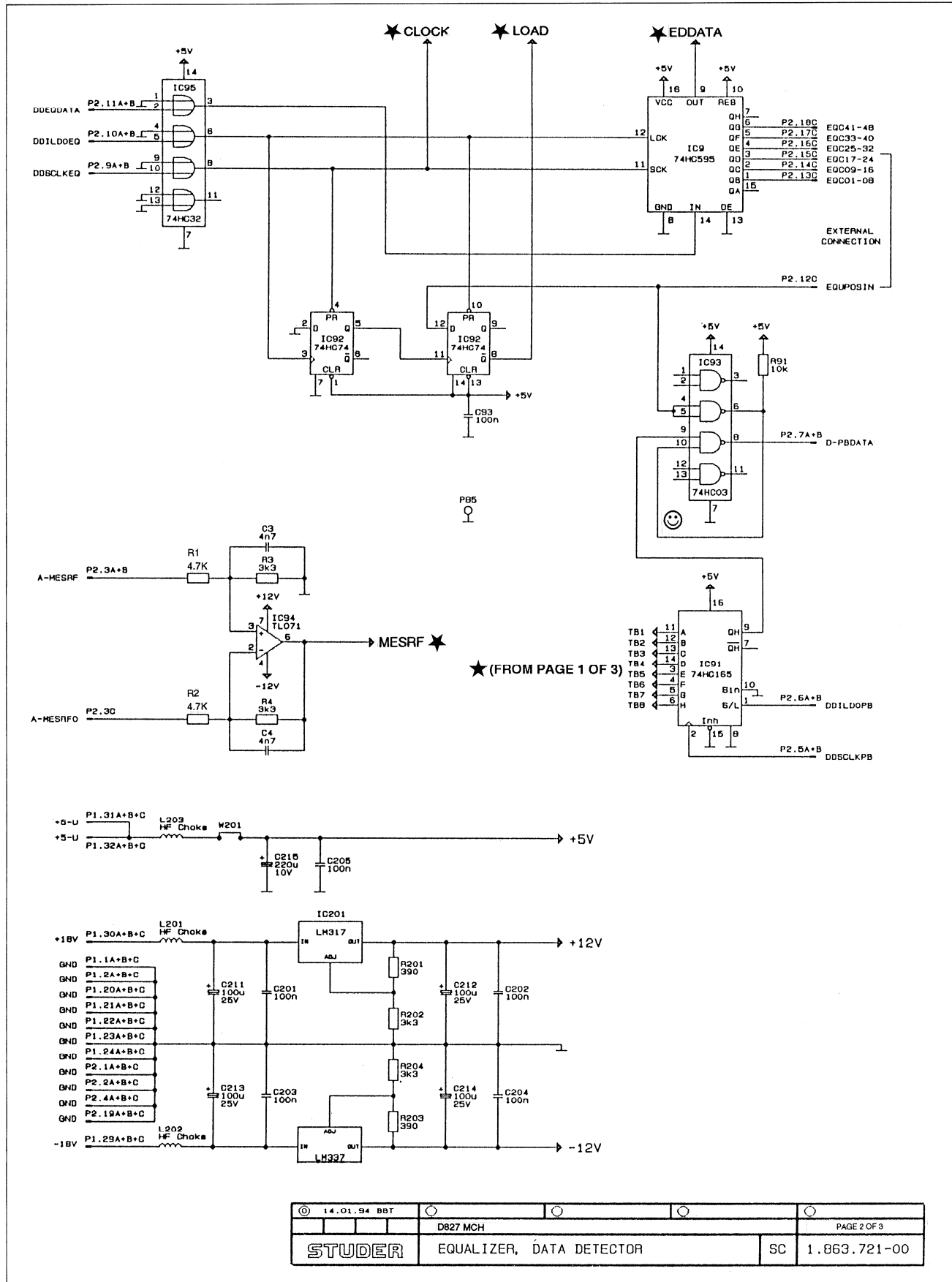
EQUALIZER, DATA DETECTOR 1.863.721.00



|                |                          |                 |
|----------------|--------------------------|-----------------|
| © 14.01.94 BBT | D827 MCH                 | PAGE 1 OF 3     |
| STUDER         | EQUALIZER, DATA DETECTOR | SC 1.863.721-00 |



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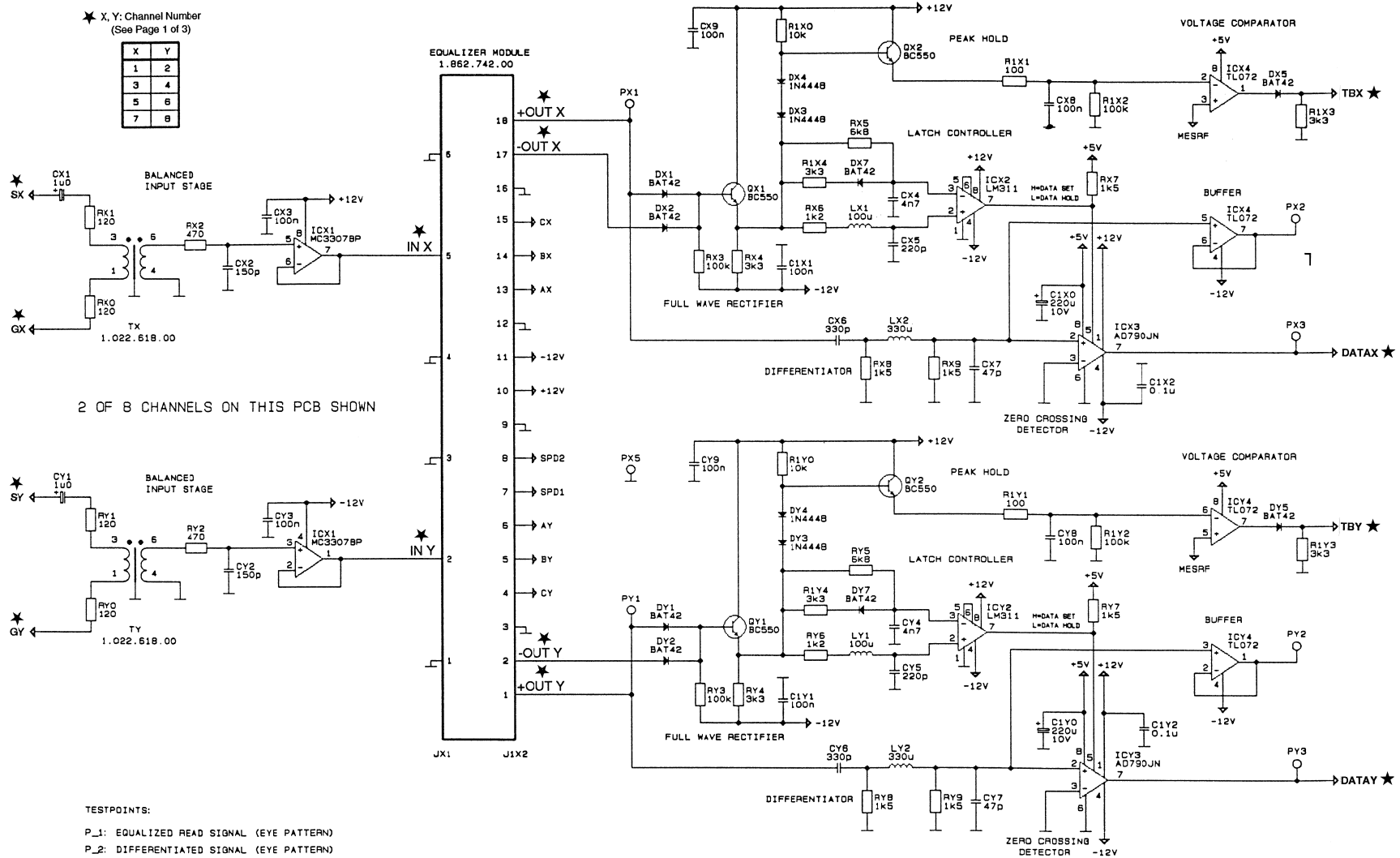




EQUALIZER, DATA DETECTOR 1.863.721.00

\* X, Y: Channel Number  
(See Page 1 of 3)

|   |   |
|---|---|
| X | Y |
| 1 | 2 |
| 3 | 4 |
| 5 | 6 |
| 7 | 8 |

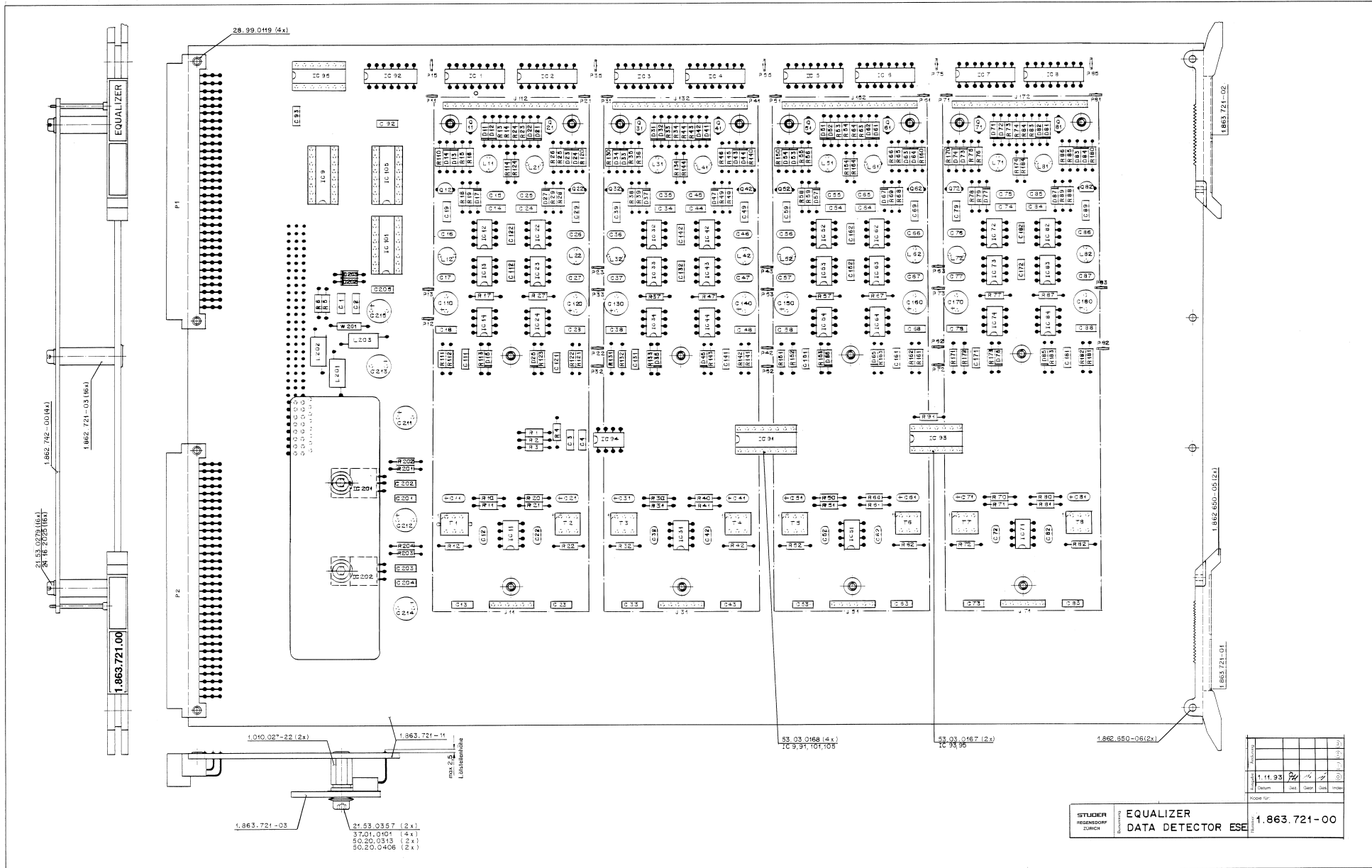


2 OF 8 CHANNELS ON THIS PCB SHOWN

- TESTPOINTS:
- P\_1: EQUALIZED READ SIGNAL (EYE PATTERN)
  - P\_2: DIFFERENTIATED SIGNAL (EYE PATTERN)
  - P\_3: RECOVERED DATA, DETECTOR OUTPUT (TRIGGER FOR EYE PATTERN)
  - P\_5: GROUND

|                |                          |                 |
|----------------|--------------------------|-----------------|
| © 14.01.94 BBT | D827 MCH                 | PAGE 3 OF 3     |
| STUDER         | EQUALIZER, DATA DETECTOR | SC 1.863.721-00 |

EQUALIZER, DATA DETECTOR 1.863.721.00







EQUALIZER, DATA DETECTOR 1.863.721.00

| Ad    | ..POS.. | ...REF.No... | DESCRIPTION..... | MANUFACTURER                  | Ad    | ..POS.. | ...REF.No... | DESCRIPTION..... | MANUFACTURER   |
|-------|---------|--------------|------------------|-------------------------------|-------|---------|--------------|------------------|----------------|
| IC... | 12      | 50.11.0114   | LM 311 N         | Mot                           | P.... | 35      | 54.02.0320   | Connector        | Faston         |
| IC... | 13      | 50.11.1001   | AD 790JN         | AD                            | P.... | 41      | 54.02.0320   | Connector        | Faston         |
| IC... | 14      | 50.09.0101   | TL 072           | Mot,SGS,TI                    | P.... | 42      | 54.02.0320   | Connector        | Faston         |
| IC... | 22      | 50.11.0114   | LM 311 N         | Mot                           | P.... | 43      | 54.02.0320   | Connector        | Faston         |
| IC... | 23      | 50.11.1001   | AD 790JN         | AD                            | P.... | 44      | 54.02.0320   | Connector        | Faston         |
| IC... | 24      | 50.09.0101   | TL 072           | Mot,SGS,TI                    | P.... | 51      | 54.02.0320   | Connector        | Faston         |
| IC... | 31      | 50.09.0117   | MC 33078 P       | Mot                           | P.... | 52      | 54.02.0320   | Connector        | Faston         |
| IC... | 32      | 50.11.0114   | LM 311 N         | Mot                           | P.... | 53      | 54.02.0320   | Connector        | Faston         |
| IC... | 33      | 50.11.1001   | AD 790JN         | AD                            | P.... | 55      | 54.02.0320   | Connector        | Faston         |
| IC... | 34      | 50.09.0101   | TL 072           | Mot,SGS,TI                    | P.... | 61      | 54.02.0320   | Connector        | Faston         |
| IC... | 42      | 50.11.0114   | LM 311 N         | Mot                           | P.... | 62      | 54.02.0320   | Connector        | Faston         |
| IC... | 43      | 50.11.1001   | AD 790JN         | AD                            | P.... | 63      | 54.02.0320   | Connector        | Faston         |
| IC... | 44      | 50.09.0101   | TL 072           | Mot,SGS,TI                    | P.... | 71      | 54.02.0320   | Connector        | Faston         |
| IC... | 51      | 50.09.0117   | MC 33078 P       | Mot                           | P.... | 72      | 54.02.0320   | Connector        | Faston         |
| IC... | 52      | 50.11.0114   | LM 311 N         | Mot                           | P.... | 73      | 54.02.0320   | Connector        | Faston         |
| IC... | 53      | 50.11.1001   | AD 790JN         | AD                            | P.... | 75      | 54.02.0320   | Connector        | Faston         |
| IC... | 54      | 50.09.0101   | TL 072           | Mot,SGS,TI                    | P.... | 81      | 54.02.0320   | Connector        | Faston         |
| IC... | 62      | 50.11.0114   | LM 311 N         | Mot                           | P.... | 82      | 54.02.0320   | Connector        | Faston         |
| IC... | 63      | 50.11.1001   | AD 790JN         | AD                            | P.... | 83      | 54.02.0320   | Connector        | Faston         |
| IC... | 64      | 50.09.0101   | TL 072           | Mot,SGS,TI                    | P.... | 85      | 54.02.0320   | Connector        | Faston         |
| IC... | 71      | 50.09.0117   | MC 33078 P       | Mot                           | Q.... | 11      | 50.03.0407   | BC 550 C         | NPN, Si, TO 92 |
| IC... | 72      | 50.11.0114   | LM 311 N         | Mot                           | Q.... | 12      | 50.03.0407   | BC 550 C         | NPN, Si, TO 92 |
| IC... | 73      | 50.11.1001   | AD 790JN         | AD                            | Q.... | 21      | 50.03.0407   | BC 550 C         | NPN, Si, TO 92 |
| IC... | 74      | 50.09.0101   | TL 072           | Mot,SGS,TI                    | Q.... | 22      | 50.03.0407   | BC 550 C         | NPN, Si, TO 92 |
| IC... | 82      | 50.11.0114   | LM 311 N         | Mot                           | Q.... | 31      | 50.03.0407   | BC 550 C         | NPN, Si, TO 92 |
| IC... | 83      | 50.11.1001   | AD 790JN         | AD                            | Q.... | 32      | 50.03.0407   | BC 550 C         | NPN, Si, TO 92 |
| IC... | 84      | 50.09.0101   | TL 072           | Mot,SGS,TI                    | Q.... | 41      | 50.03.0407   | BC 550 C         | NPN, Si, TO 92 |
| IC... | 91      | 50.17.1165   | 74 HC 165        | NS,Ph,RCA,TI                  | Q.... | 42      | 50.03.0407   | BC 550 C         | NPN, Si, TO 92 |
| IC... | 92      | 50.17.1074   | 74 HC 74         | Mot,NS,Ph,RCA,SGS,Tho,TI,To   | Q.... | 51      | 50.03.0407   | BC 550 C         | NPN, Si, TO 92 |
| IC... | 93      | 50.17.1003   | 74 HC 03         | Mot,NS,TI                     | Q.... | 52      | 50.03.0407   | BC 550 C         | NPN, Si, TO 92 |
| IC... | 94      | 50.09.0103   | TL 071           | TI                            | Q.... | 61      | 50.03.0407   | BC 550 C         | NPN, Si, TO 92 |
| IC... | 95      | 50.17.1032   | 74 HC 32         | Mot,NS,Ph,RCA,SGS,Tho,TI,To   | Q.... | 62      | 50.03.0407   | BC 550 C         | NPN, Si, TO 92 |
| IC... | 101     | 50.15.0108   | AM26LS31         | AMD,Mot,TI                    | Q.... | 71      | 50.03.0407   | BC 550 C         | NPN, Si, TO 92 |
| IC... | 105     | 50.15.0108   | AM26LS31         | AMD,Mot,TI                    | Q.... | 72      | 50.03.0407   | BC 550 C         | NPN, Si, TO 92 |
| IC... | 201     | 50.10.0104   | LM 317           | Mot,NS,SGS,Tho,TI             | Q.... | 77      | 50.03.0407   | BC 550 C         | NPN, Si, TO 92 |
| IC... | 202     | 50.10.0105   | LM 337           | Mot,NS,SGS,Tho,TI             | Q.... | 81      | 50.03.0407   | BC 550 C         | NPN, Si, TO 92 |
| J.... | 11      | 53.03.0218   | 6 pcs            | Connector                     | Q.... | 82      | 50.03.0407   | BC 550 C         | NPN, Si, TO 92 |
| J.... | 31      | 53.03.0218   | 6 pcs            | Connector                     | R.... | 1       | 57.11.3103   | 10 kOhm          | 5%, MF         |
| J.... | 51      | 53.03.0218   | 6 pcs            | Connector                     | R.... | 1       | 57.11.3472   | 4.7kOhm          | 5%, MF         |
| J.... | 71      | 53.03.0218   | 6 pcs            | Connector                     | R.... | 2       | 57.11.3103   | 10 kOhm          | 5%, MF         |
| J.... | 112     | 53.03.0218   | 18 pcs           | Connector                     | R.... | 2       | 57.11.3472   | 4.7kOhm          | 5%, MF         |
| J.... | 132     | 53.03.0218   | 18 pcs           | Connector                     | R.... | 3       | 57.11.3332   | 3.3 kOhm         | 5%, MF         |
| J.... | 152     | 53.03.0218   | 18 pcs           | Connector                     | R.... | 4       | 57.11.3332   | 3.3 kOhm         | 5%, MF         |
| J.... | 172     | 53.03.0218   | 18 pcs           | Connector                     | R.... | 5       | 57.11.3122   | 1.2 kOhm         | 5%, MF         |
| L.... | 11      | 62.02.3101   | 100 uH           | 10% note 1                    | R.... | 6       | 57.11.3122   | 1.2 kOhm         | 5%, MF         |
| L.... | 12      | 62.02.3331   | 330 uH           | 10%, note 2                   | R.... | 10      | 57.11.3121   | 120 Ohm          | 5%, MF         |
| L.... | 21      | 62.02.3101   | 100 uH           | 10% note 1                    | R.... | 11      | 57.11.3121   | 120 Ohm          | 5%, MF         |
| L.... | 22      | 62.02.3331   | 330 uH           | 10%, note 2                   | R.... | 12      | 57.11.3471   | 470 Ohm          | 5%, MF         |
| L.... | 31      | 62.02.3101   | 100 uH           | 10% note 1                    | R.... | 13      | 57.11.3104   | 100 kOhm         | 5%, MF         |
| L.... | 32      | 62.02.3331   | 330 uH           | 10%, note 2                   | R.... | 14      | 57.11.3332   | 3.3 kOhm         | 5%, MF         |
| L.... | 41      | 62.02.3101   | 100 uH           | 10% note 1                    | R.... | 15      | 57.11.3682   | 6.8 kOhm         | 5%, MF         |
| L.... | 42      | 62.02.3331   | 330 uH           | 10%, note 2                   | R.... | 16      | 57.11.3122   | 1.2 kOhm         | 5%, MF         |
| L.... | 51      | 62.02.3101   | 100 uH           | 10% note 1                    | R.... | 17      | 57.11.3152   | 1.5 kOhm         | 5%, MF         |
| L.... | 52      | 62.02.3331   | 330 uH           | 10%, note 2                   | R.... | 18      | 57.11.3152   | 1.5 kOhm         | 5%, MF         |
| L.... | 61      | 62.02.3101   | 100 uH           | 10% note 1                    | R.... | 19      | 57.11.3152   | 1.5 kOhm         | 5%, MF         |
| L.... | 62      | 62.02.3331   | 330 uH           | 10%, note 2                   | R.... | 20      | 57.11.3121   | 120 Ohm          | 5%, MF         |
| L.... | 71      | 62.02.3101   | 100 uH           | 10% note 1                    | R.... | 21      | 57.11.3121   | 120 Ohm          | 5%, MF         |
| L.... | 72      | 62.02.3331   | 330 uH           | 10%, note 2                   | R.... | 22      | 57.11.3471   | 470 Ohm          | 5%, MF         |
| L.... | 81      | 62.02.3101   | 100 uH           | 10% note 1                    | R.... | 23      | 57.11.3104   | 100 kOhm         | 5%, MF         |
| L.... | 82      | 62.02.3331   | 330 uH           | 10%, note 2                   | R.... | 24      | 57.11.3332   | 3.3 kOhm         | 5%, MF         |
| L.... | 201     | 62.01.0115   | HF Choke         | note 3                        | R.... | 25      | 57.11.3682   | 6.8 kOhm         | 5%, MF         |
| L.... | 202     | 62.01.0115   | HF Choke         | note 3                        | R.... | 26      | 57.11.3122   | 1.2 kOhm         | 5%, MF         |
| L.... | 203     | 62.01.0115   | HF Choke         | note 3                        | R.... | 27      | 57.11.3152   | 1.5 kOhm         | 5%, MF         |
| P.... | 1       | 54.01.0358   | Connector        | Eurocard, 96-pin, right angle | R.... | 28      | 57.11.3152   | 1.5 kOhm         | 5%, MF         |
| P.... | 2       | 54.01.0358   | Connector        | Eurocard, 96-pin, right angle | R.... | 29      | 57.11.3152   | 1.5 kOhm         | 5%, MF         |
| P.... | 11      | 54.02.0320   | Connector        | Faston                        | R.... | 30      | 57.11.3121   | 120 Ohm          | 5%, MF         |
| P.... | 12      | 54.02.0320   | Connector        | Faston                        | R.... | 41      | 57.11.3121   | 120 Ohm          | 5%, MF         |
| P.... | 13      | 54.02.0320   | Connector        | Faston                        | R.... | 42      | 57.11.3471   | 470 Ohm          | 5%, MF         |
| P.... | 15      | 54.02.0320   | Connector        | Faston                        | R.... | 43      | 57.11.3104   | 100 kOhm         | 5%, MF         |
| P.... | 21      | 54.02.0320   | Connector        | Faston                        | R.... | 44      | 57.11.3332   | 3.3 kOhm         | 5%, MF         |
| P.... | 22      | 54.02.0320   | Connector        | Faston                        | R.... | 45      | 57.11.3682   | 6.8 kOhm         | 5%, MF         |
| P.... | 23      | 54.02.0320   | Connector        | Faston                        | R.... | 46      | 57.11.3122   | 1.2 kOhm         | 5%, MF         |
| P.... | 31      | 54.02.0320   | Connector        | Faston                        | R.... | 47      | 57.11.3152   | 1.5 kOhm         | 5%, MF         |
| P.... | 32      | 54.02.0320   | Connector        | Faston                        | R.... | 48      | 57.11.3152   | 1.5 kOhm         | 5%, MF         |
| P.... | 33      | 54.02.0320   | Connector        | Faston                        | R.... | 49      | 57.11.3152   | 1.5 kOhm         | 5%, MF         |
| P.... | 33      | 54.02.0320   | Connector        | Faston                        | R.... | 50      | 57.11.3121   | 120 Ohm          | 5%, MF         |
| P.... | 31      | 54.02.0320   | Connector        | Faston                        | R.... | 51      | 57.11.3121   | 120 Ohm          | 5%, MF         |
| P.... | 32      | 54.02.0320   | Connector        | Faston                        | R.... | 52      | 57.11.3471   | 470 Ohm          | 5%, MF         |
| P.... | 33      | 54.02.0320   | Connector        | Faston                        | R.... | 53      | 57.11.3104   | 100 kOhm         | 5%, MF         |



EQUALIZER, DATA DETECTOR 1.863.721.00

| Ad    | POS | REF.No       | DESCRIPTION       | MANUFACTURER | Ad     | POS | REF.No     | DESCRIPTION    | MANUFACTURER |
|-------|-----|--------------|-------------------|--------------|--------|-----|------------|----------------|--------------|
| R...  | 54  | 57.11.3332   | 3.3 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 55  | 57.11.3682   | 6.8 kOhm          | 5%, MF       | XIC... | 9   | 53.03.0168 | XIC DIL 16-POL |              |
| R...  | 56  | 57.11.3122   | 1.2 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 57  | 57.11.3152   | 1.5 kOhm          | 5%, MF       | XIC..  | 91  | 53.03.0168 | XIC DIL 16-POL |              |
| R...  | 58  | 57.11.3152   | 1.5 kOhm          | 5%, MF       | XIC..  | 93  | 53.03.0167 | XIC DIL 14-POL |              |
| R...  | 59  | 57.11.3152   | 1.5 kOhm          | 5%, MF       | XIC..  | 95  | 53.03.0167 | XIC DIL 14-POL |              |
| R...  | 60  | 57.11.3121   | 120 Ohm           | 5%, MF       |        |     |            |                |              |
| R...  | 61  | 57.11.3121   | 120 Ohm           | 5%, MF       | XIC..  | 101 | 53.03.0168 | XIC DIL 16-POL |              |
| R...  | 62  | 57.11.3471   | 470 Ohm           | 5%, MF       | XIC..  | 105 | 53.03.0168 | XIC DIL 16-POL |              |
| R...  | 63  | 57.11.3104   | 100 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 64  | 57.11.3332   | 3.3 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 65  | 57.11.3682   | 6.8 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 66  | 57.11.3122   | 1.2 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 67  | 57.11.3152   | 1.5 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 68  | 57.11.3152   | 1.5 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 69  | 57.11.3152   | 1.5 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 70  | 57.11.3121   | 120 Ohm           | 5%, MF       |        |     |            |                |              |
| R...  | 71  | 57.11.3121   | 120 Ohm           | 5%, MF       |        |     |            |                |              |
| R...  | 72  | 57.11.3471   | 470 Ohm           | 5%, MF       |        |     |            |                |              |
| R...  | 73  | 57.11.3104   | 100 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 74  | 57.11.3332   | 3.3 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 75  | 57.11.3682   | 6.8 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 76  | 57.11.3122   | 1.2 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 77  | 57.11.3152   | 1.5 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 78  | 57.11.3152   | 1.5 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 79  | 57.11.3152   | 1.5 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 80  | 57.11.3121   | 120 Ohm           | 5%, MF       |        |     |            |                |              |
| R...  | 81  | 57.11.3121   | 120 Ohm           | 5%, MF       |        |     |            |                |              |
| R...  | 82  | 57.11.3471   | 470 Ohm           | 5%, MF       |        |     |            |                |              |
| R...  | 83  | 57.11.3104   | 100 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 84  | 57.11.3332   | 3.3 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 85  | 57.11.3682   | 6.8 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 86  | 57.11.3122   | 1.2 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 87  | 57.11.3152   | 1.5 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 88  | 57.11.3152   | 1.5 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 89  | 57.11.3152   | 1.5 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 91  | 57.11.3103   | 10 kOhm           | 5%, MF       |        |     |            |                |              |
| R...  | 110 | 57.11.3103   | 10 kOhm           | 5%, MF       |        |     |            |                |              |
| R...  | 111 | 57.11.3101   | 100 Ohm           | 5%, MF       |        |     |            |                |              |
| R...  | 112 | 57.11.3104   | 100 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 113 | 57.11.3332   | 3.3 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 114 | 57.11.3332   | 3.3 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 120 | 57.11.3103   | 10 kOhm           | 5%, MF       |        |     |            |                |              |
| R...  | 121 | 57.11.3101   | 100 Ohm           | 5%, MF       |        |     |            |                |              |
| R...  | 122 | 57.11.3104   | 100 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 123 | 57.11.3332   | 3.3 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 124 | 57.11.3332   | 3.3 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 130 | 57.11.3103   | 10 kOhm           | 5%, MF       |        |     |            |                |              |
| R...  | 131 | 57.11.3101   | 100 Ohm           | 5%, MF       |        |     |            |                |              |
| R...  | 132 | 57.11.3104   | 100 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 133 | 57.11.3332   | 3.3 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 134 | 57.11.3332   | 3.3 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 140 | 57.11.3103   | 10 kOhm           | 5%, MF       |        |     |            |                |              |
| R...  | 141 | 57.11.3101   | 100 Ohm           | 5%, MF       |        |     |            |                |              |
| R...  | 142 | 57.11.3104   | 100 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 143 | 57.11.3332   | 3.3 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 144 | 57.11.3332   | 3.3 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 150 | 57.11.3103   | 10 kOhm           | 5%, MF       |        |     |            |                |              |
| R...  | 151 | 57.11.3101   | 100 Ohm           | 5%, MF       |        |     |            |                |              |
| R...  | 152 | 57.11.3104   | 100 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 153 | 57.11.3332   | 3.3 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 154 | 57.11.3332   | 3.3 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 160 | 57.11.3103   | 10 kOhm           | 5%, MF       |        |     |            |                |              |
| R...  | 161 | 57.11.3101   | 100 Ohm           | 5%, MF       |        |     |            |                |              |
| R...  | 162 | 57.11.3104   | 100 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 163 | 57.11.3332   | 3.3 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 164 | 57.11.3332   | 3.3 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 170 | 57.11.3103   | 10 kOhm           | 5%, MF       |        |     |            |                |              |
| R...  | 171 | 57.11.3101   | 100 Ohm           | 5%, MF       |        |     |            |                |              |
| R...  | 172 | 57.11.3104   | 100 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 173 | 57.11.3332   | 3.3 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 174 | 57.11.3332   | 3.3 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 180 | 57.11.3103   | 10 kOhm           | 5%, MF       |        |     |            |                |              |
| R...  | 181 | 57.11.3101   | 100 Ohm           | 5%, MF       |        |     |            |                |              |
| R...  | 182 | 57.11.3104   | 100 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 183 | 57.11.3332   | 3.3 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 184 | 57.11.3332   | 3.3 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 201 | 57.11.3391   | 390 Ohm           | 5%, MF       |        |     |            |                |              |
| R...  | 202 | 57.11.3332   | 3.3 kOhm          | 5%, MF       |        |     |            |                |              |
| R...  | 203 | 57.11.3391   | 390 Ohm           | 5%, MF       |        |     |            |                |              |
| R...  | 204 | 57.11.3332   | 3.3 kOhm          | 5%, MF       |        |     |            |                |              |
| T.... | 1   | 1.022.618.00 | Input Transformer | St           |        |     |            |                |              |
| T.... | 2   | 1.022.618.00 | Input Transformer | St           |        |     |            |                |              |
| T.... | 3   | 1.022.618.00 | Input Transformer | St           |        |     |            |                |              |
| T.... | 4   | 1.022.618.00 | Input Transformer | St           |        |     |            |                |              |
| T.... | 5   | 1.022.618.00 | Input Transformer | St           |        |     |            |                |              |
| T.... | 6   | 1.022.618.00 | Input Transformer | St           |        |     |            |                |              |
| T.... | 7   | 1.022.618.00 | Input Transformer | St           |        |     |            |                |              |
| T.... | 8   | 1.022.618.00 | Input Transformer | St           |        |     |            |                |              |
| W...  | 201 | 57.11.3000   | Wire Bridge       |              |        |     |            |                |              |

END  
→

1.863.721.00 EQUALIZER, DATA DETECTOR GP 93/08/2000  
1.863.721.00 EQUALIZER, DATA DETECTOR BBT94/11/2101

Note 1: TDK order number: EL 0606 SKI - 101 K  
Note 2: TDK order number: EL 0606 SKI - 331 K  
Note 3: Philips order number: 4312 020 36700

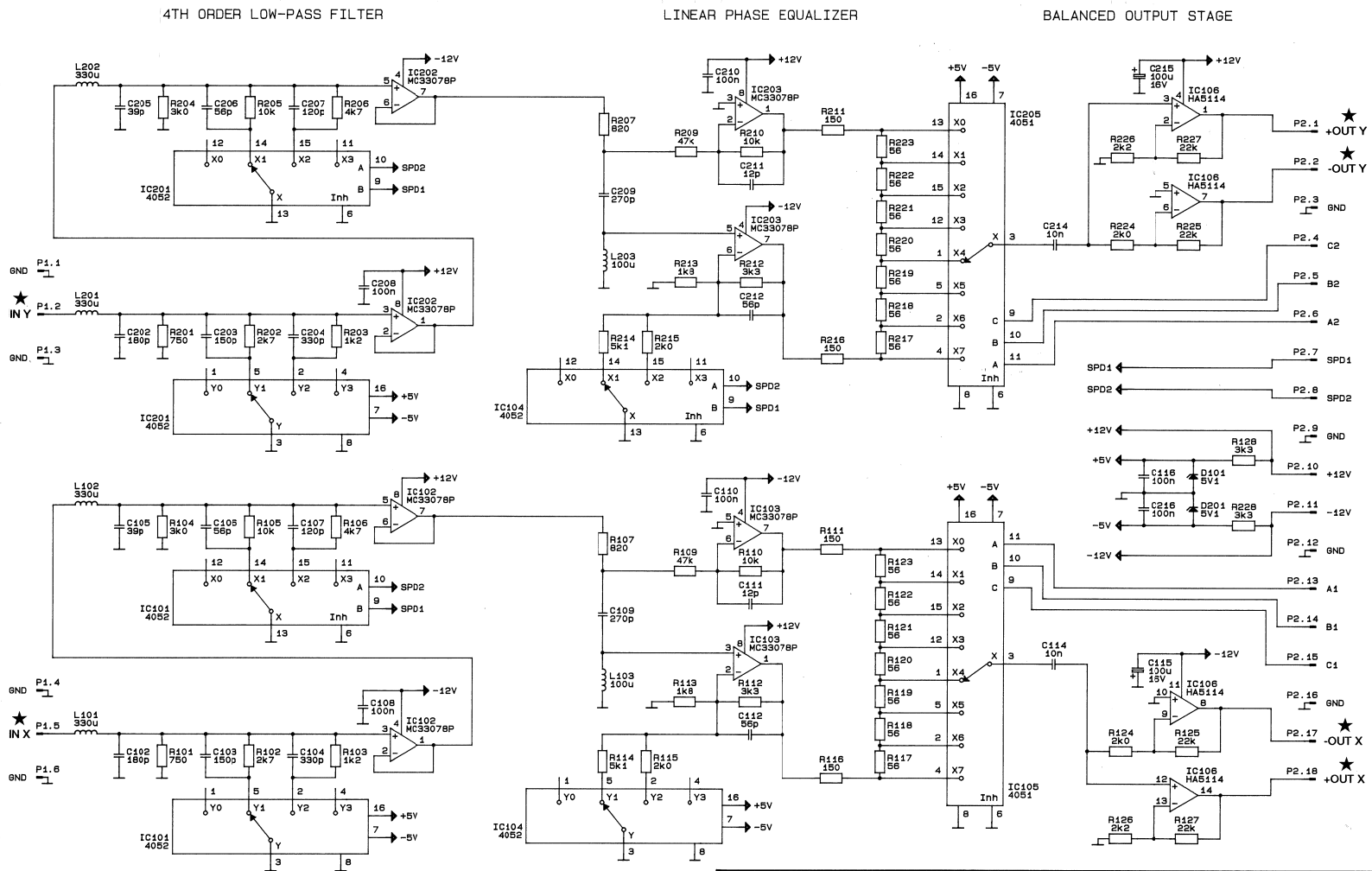
Cer=Ceramic, El=Electrolytic, MF=Metalfilm, PETP=Polyesterfilm, Sal=Solid Aluminium, Si=Silicium

Manufacturers: AD=Analog Devices, AMD=Advanced Micro Devices, Fc=Fairchild, ITT=Intermetall, Mot=Motorola, NS=National Semiconductors, Ph=Philips, RCA=Radio Corporation of America, Ra=Raytheon, SGS=SGS/Ates, Sie=Siemens, St=Studer, Tf=Telefunken, Tho=Thomson, TI=Texas Instruments, To=Toshiba.

EQUALIZER MODULE 1.862.742.00

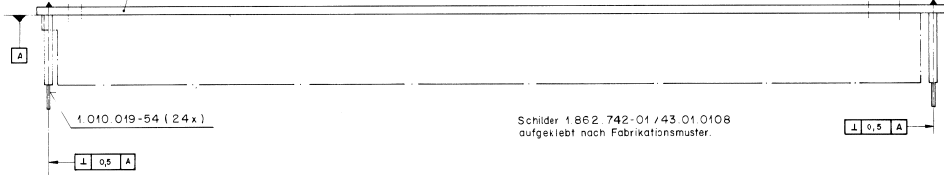
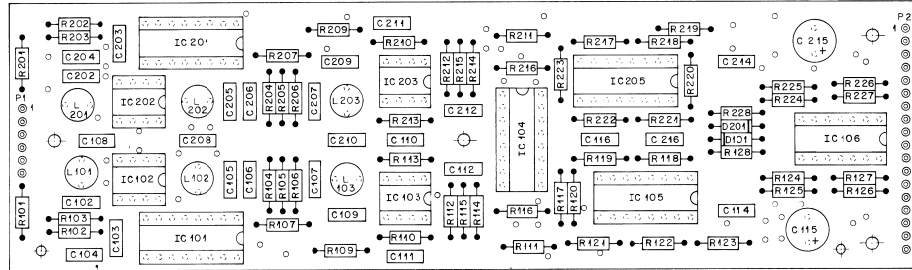
★ X, Y: Channel Number  
(See 1.863.721, Page 3 of 3)

|   |   |
|---|---|
| X | Y |
| 1 | 2 |
| 3 | 4 |
| 5 | 6 |
| 7 | 8 |



|               |                  |                 |
|---------------|------------------|-----------------|
| © 19.09.89 ZB | D 820 MCH        | PAGE 1 OF 1     |
| <b>STUDER</b> | EQUALIZER MODULE | A3 1.862.742-00 |

EQUALIZER MODULE 1.862.742.00



| IND. | POS.NO. | PART NO.   | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF. |
|------|---------|------------|----------|-----------------------------|--------|
| R... | 123     | 57.11.3560 | 56 Ohm   | 1%, MF                      |        |
| R... | 124     | 57.11.3202 | 2,0 kOhm | 1%, MF                      |        |
| R... | 125     | 57.11.3223 | 2,2 kOhm | 1%, MF                      |        |
| R... | 126     | 57.11.3222 | 2,2 kOhm | 1%, MF                      |        |
| R... | 127     | 57.11.3223 | 2,2 kOhm | 1%, MF                      |        |
| R... | 128     | 57.11.3332 | 3,3 kOhm | 1%, MF                      |        |
| R... | 129     | 57.11.3751 | 750 Ohm  | 1%, MF                      |        |
| R... | 130     | 57.11.3272 | 2,7 kOhm | 1%, MF                      |        |
| R... | 131     | 57.11.3122 | 1,2 kOhm | 1%, MF                      |        |
| R... | 132     | 57.11.3502 | 3,0 kOhm | 1%, MF                      |        |
| R... | 133     | 57.11.3122 | 1,2 kOhm | 1%, MF                      |        |
| R... | 134     | 57.11.3472 | 4,7 kOhm | 1%, MF                      |        |
| R... | 135     | 57.11.3921 | 820 Ohm  | 1%, MF                      |        |
| R... | 136     | 57.11.3473 | 4,7 kOhm | 1%, MF                      |        |
| R... | 137     | 57.11.3129 | 10 kOhm  | 1%, MF                      |        |
| R... | 138     | 57.11.3151 | 150 Ohm  | 1%, MF                      |        |
| R... | 139     | 57.11.3332 | 3,3 kOhm | 1%, MF                      |        |
| R... | 140     | 57.11.3182 | 1,8 kOhm | 1%, MF                      |        |
| R... | 141     | 57.11.3152 | 5,1 kOhm | 1%, MF                      |        |
| R... | 142     | 57.11.3202 | 2,0 kOhm | 1%, MF                      |        |
| R... | 143     | 57.11.3152 | 5,1 kOhm | 1%, MF                      |        |
| R... | 144     | 57.11.3560 | 56 Ohm   | 1%, MF                      |        |
| R... | 145     | 57.11.3560 | 56 Ohm   | 1%, MF                      |        |
| R... | 146     | 57.11.3560 | 56 Ohm   | 1%, MF                      |        |
| R... | 147     | 57.11.3560 | 56 Ohm   | 1%, MF                      |        |
| R... | 148     | 57.11.3560 | 56 Ohm   | 1%, MF                      |        |
| R... | 149     | 57.11.3560 | 56 Ohm   | 1%, MF                      |        |
| R... | 150     | 57.11.3560 | 56 Ohm   | 1%, MF                      |        |
| R... | 151     | 57.11.3560 | 56 Ohm   | 1%, MF                      |        |
| R... | 152     | 57.11.3560 | 56 Ohm   | 1%, MF                      |        |
| R... | 153     | 57.11.3560 | 56 Ohm   | 1%, MF                      |        |
| R... | 154     | 57.11.3202 | 2,0 kOhm | 1%, MF                      |        |
| R... | 155     | 57.11.3223 | 2,2 kOhm | 1%, MF                      |        |
| R... | 156     | 57.11.3223 | 2,2 kOhm | 1%, MF                      |        |
| R... | 157     | 57.11.3332 | 3,3 kOhm | 1%, MF                      |        |
| R... | 158     | 57.11.3332 | 3,3 kOhm | 1%, MF                      |        |

STUDER (00) 89/05/19 ZB EQUALIZER MODUL PL 1.862.742.00 PAGE 3

| IND.  | POS.NO. | PART NO.     | VALUE      | SPECIFICATIONS / EQUIVALENT | MANUF. |
|-------|---------|--------------|------------|-----------------------------|--------|
| IC... | 106     | 50.09.0119   | HA-5114    |                             | Ha     |
| IC... | 201     | 50.07.0004   | 4052 B     | Met.Pb.SGS,The              | Met    |
| IC... | 202     | 50.09.0117   | MC 33078 F |                             | Met    |
| IC... | 203     | 50.09.0117   | MC 33078 F |                             | Met    |
| IC... | 205     | 50.07.0001   | 4051 B     | Met.Pb.RCA.SGS,The,To       | Met    |
| L...  | 101     | 62.02.3331   | 330 uH     | 10%, note 1                 | TK     |
| L...  | 102     | 62.02.3331   | 330 uH     | 10%, note 1                 | TK     |
| L...  | 103     | 62.02.3101   | 100 uH     | 10%, note 2                 | TK     |
| L...  | 201     | 62.02.3331   | 330 uH     | 10%, note 1                 | TK     |
| L...  | 202     | 62.02.3331   | 330 uH     | 10%, note 1                 | TK     |
| L...  | 203     | 62.02.3101   | 100 uH     | 10%, note 2                 | TK     |
| P...  | 1       | 1.010.019.54 | Connector  | 6 pcs                       | St     |
| P...  | 2       | 1.010.019.54 | Connector  | 18 pcs                      | St     |

Note 1: TDK order number: ZL 0606 EKI - 331 K  
 Note 2: TDK order number: ZL 0606 EKI - 101 K  
 Cap=Ceramic; El=Electrolytic; MF=Malifilm; PEP=Polyesterfilm  
 Manufactures: Ha=Harris; IT=Intermetall; Met=Motorola;  
 Pb=Philips; RCA=Radio Corporation of America;  
 SGS=SGS/AT&T; St=Studer; T=Telefunken  
 The=Thomson; To=Tomita

ORIG 89/05/19  
 STUDER (00) 89/05/19 ZB EQUALIZER MODUL PL 1.862.742.00 PAGE 4

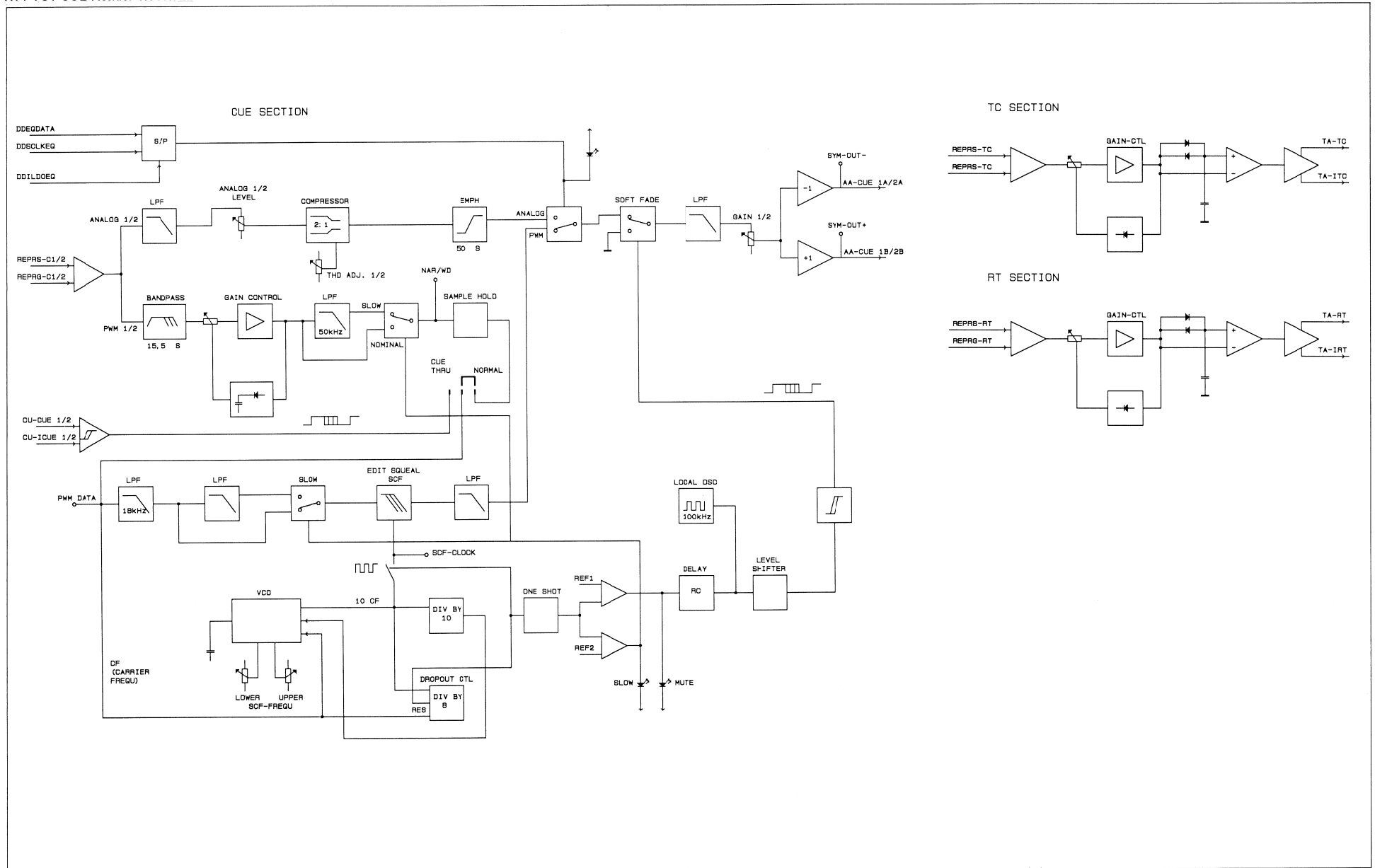
| IND.  | POS.NO. | PART NO.   | VALUE      | SPECIFICATIONS / EQUIVALENT | MANUF.                |
|-------|---------|------------|------------|-----------------------------|-----------------------|
| C...  | 102     | 59.34.4181 | 180 pF     | 5%, 63V, Cer                |                       |
| C...  | 103     | 59.34.4151 | 150 pF     | 5%, 63V, Cer                |                       |
| C...  | 104     | 59.34.4331 | 330 pF     | 5%, 63V, Cer                |                       |
| C...  | 105     | 59.34.2390 | 39 pF      | 5%, 63V, Cer                |                       |
| C...  | 106     | 59.34.4560 | 56 pF      | 5%, 63V, Cer                |                       |
| C...  | 107     | 59.34.4121 | 120 pF     | 5%, 63V, Cer                |                       |
| C...  | 108     | 59.06.0104 | 100 nF     | 10%, 63V, PEP               |                       |
| C...  | 109     | 59.34.4271 | 270 pF     | 5%, 63V, Cer                |                       |
| C...  | 110     | 59.06.0104 | 100 nF     | 10%, 63V, PEP               |                       |
| C...  | 111     | 59.34.1130 | 12 pF      | 5%, 63V, Cer                |                       |
| C...  | 112     | 59.34.4560 | 56 pF      | 5%, 63V, Cer                |                       |
| C...  | 114     | 59.06.0103 | 10 nF      | 10%, 63V, PEP               |                       |
| C...  | 115     | 59.22.3101 | 100 nF     | 20%, 25V, El                |                       |
| C...  | 116     | 59.06.0104 | 100 nF     | 10%, 63V, PEP               |                       |
| C...  | 202     | 59.34.4181 | 180 pF     | 5%, 63V, Cer                |                       |
| C...  | 203     | 59.34.4151 | 150 pF     | 5%, 63V, Cer                |                       |
| C...  | 204     | 59.34.4331 | 330 pF     | 5%, 63V, Cer                |                       |
| C...  | 205     | 59.34.2390 | 39 pF      | 5%, 63V, Cer                |                       |
| C...  | 206     | 59.34.4560 | 56 pF      | 5%, 63V, Cer                |                       |
| C...  | 207     | 59.34.4121 | 120 pF     | 5%, 63V, Cer                |                       |
| C...  | 208     | 59.06.0104 | 100 nF     | 10%, 63V, PEP               |                       |
| C...  | 209     | 59.34.4271 | 270 pF     | 5%, 63V, Cer                |                       |
| C...  | 210     | 59.06.0104 | 100 nF     | 10%, 63V, PEP               |                       |
| C...  | 211     | 59.34.1130 | 12 pF      | 5%, 63V, Cer                |                       |
| C...  | 212     | 59.34.4560 | 56 pF      | 5%, 63V, Cer                |                       |
| C...  | 214     | 59.06.0103 | 10 nF      | 10%, 63V, PEP               |                       |
| C...  | 215     | 59.22.3101 | 100 nF     | 20%, 25V, El                |                       |
| C...  | 216     | 59.06.0104 | 100 nF     | 10%, 63V, PEP               |                       |
| D...  | 101     | 50.04.1112 | 5.1 V      | Z, 0.4w                     | ITT,Mo;Pb.SGS,The     |
| D...  | 201     | 50.04.1112 | 5.1 V      | Z, 0.4w                     | ITT,Mo;Pb.SGS,The     |
| IC... | 101     | 50.07.0024 | 4052 B     |                             | Met.Pb.SGS,The        |
| IC... | 102     | 50.09.0117 | MC 33078 F |                             | Met                   |
| IC... | 103     | 50.09.0117 | MC 33078 F |                             | Met                   |
| IC... | 104     | 50.07.0024 | 4052 B     |                             | Met.Pb.SGS,The        |
| IC... | 105     | 50.07.0001 | 4051 B     |                             | Met.Pb.RCA.SGS,The,To |

STUDER (00) 89/05/19 ZB EQUALIZER MODUL PL 1.862.742.00 PAGE 1

| IND.  | POS.NO. | PART NO.     | VALUE      | SPECIFICATIONS / EQUIVALENT | MANUF. |
|-------|---------|--------------|------------|-----------------------------|--------|
| IC... | 106     | 50.09.0119   | HA-5114    |                             | Ha     |
| IC... | 201     | 50.07.0004   | 4052 B     | Met.Pb.SGS,The              | Met    |
| IC... | 202     | 50.09.0117   | MC 33078 F |                             | Met    |
| IC... | 203     | 50.09.0117   | MC 33078 F |                             | Met    |
| IC... | 205     | 50.07.0001   | 4051 B     | Met.Pb.RCA.SGS,The,To       | Met    |
| L...  | 101     | 62.02.3331   | 330 uH     | 10%, note 1                 | TK     |
| L...  | 102     | 62.02.3331   | 330 uH     | 10%, note 1                 | TK     |
| L...  | 103     | 62.02.3101   | 100 uH     | 10%, note 2                 | TK     |
| L...  | 201     | 62.02.3331   | 330 uH     | 10%, note 1                 | TK     |
| L...  | 202     | 62.02.3331   | 330 uH     | 10%, note 1                 | TK     |
| L...  | 203     | 62.02.3101   | 100 uH     | 10%, note 2                 | TK     |
| P...  | 1       | 1.010.019.54 | Connector  | 6 pcs                       | St     |
| P...  | 2       | 1.010.019.54 | Connector  | 18 pcs                      | St     |
| R...  | 101     | 57.11.3751   | 750 Ohm    | 1%, MF                      |        |
| R...  | 102     | 57.11.3270   | 2,7 kOhm   | 1%, MF                      |        |
| R...  | 103     | 57.11.3122   | 1,2 kOhm   | 1%, MF                      |        |
| R...  | 104     | 57.11.3202   | 2,0 kOhm   | 1%, MF                      |        |
| R...  | 105     | 57.11.3103   | 10 kOhm    | 1%, MF                      |        |
| R...  | 106     | 57.11.3472   | 4,7 kOhm   | 1%, MF                      |        |
| R...  | 107     | 57.11.3921   | 820 Ohm    | 1%, MF                      |        |
| R...  | 108     | 57.11.3129   | 10 kOhm    | 1%, MF                      |        |
| R...  | 109     | 57.11.3151   | 150 Ohm    | 1%, MF                      |        |
| R...  | 110     | 57.11.3103   | 10 kOhm    | 1%, MF                      |        |
| R...  | 111     | 57.11.3152   | 5,1 kOhm   | 1%, MF                      |        |
| R...  | 112     | 57.11.3202   | 2,0 kOhm   | 1%, MF                      |        |
| R...  | 113     | 57.11.3182   | 1,8 kOhm   | 1%, MF                      |        |
| R...  | 114     | 57.11.3512   | 5,1 kOhm   | 1%, MF                      |        |
| R...  | 115     | 57.11.3202   | 2,0 kOhm   | 1%, MF                      |        |
| R...  | 116     | 57.11.3152   | 5,1 kOhm   | 1%, MF                      |        |
| R...  | 117     | 57.11.3560   | 56 Ohm     | 1%, MF                      |        |
| R...  | 118     | 57.11.3560   | 56 Ohm     | 1%, MF                      |        |
| R...  | 119     | 57.11.3560   | 56 Ohm     | 1%, MF                      |        |
| R...  | 120     | 57.11.3560   | 56 Ohm     | 1%, MF                      |        |
| R...  | 121     | 57.11.3560   | 56 Ohm     | 1%, MF                      |        |
| R...  | 122     | 57.11.3560   | 56 Ohm     | 1%, MF                      |        |

STUDER (00) 89/05/19 ZB EQUALIZER MODUL PL 1.862.742.00 PAGE 2

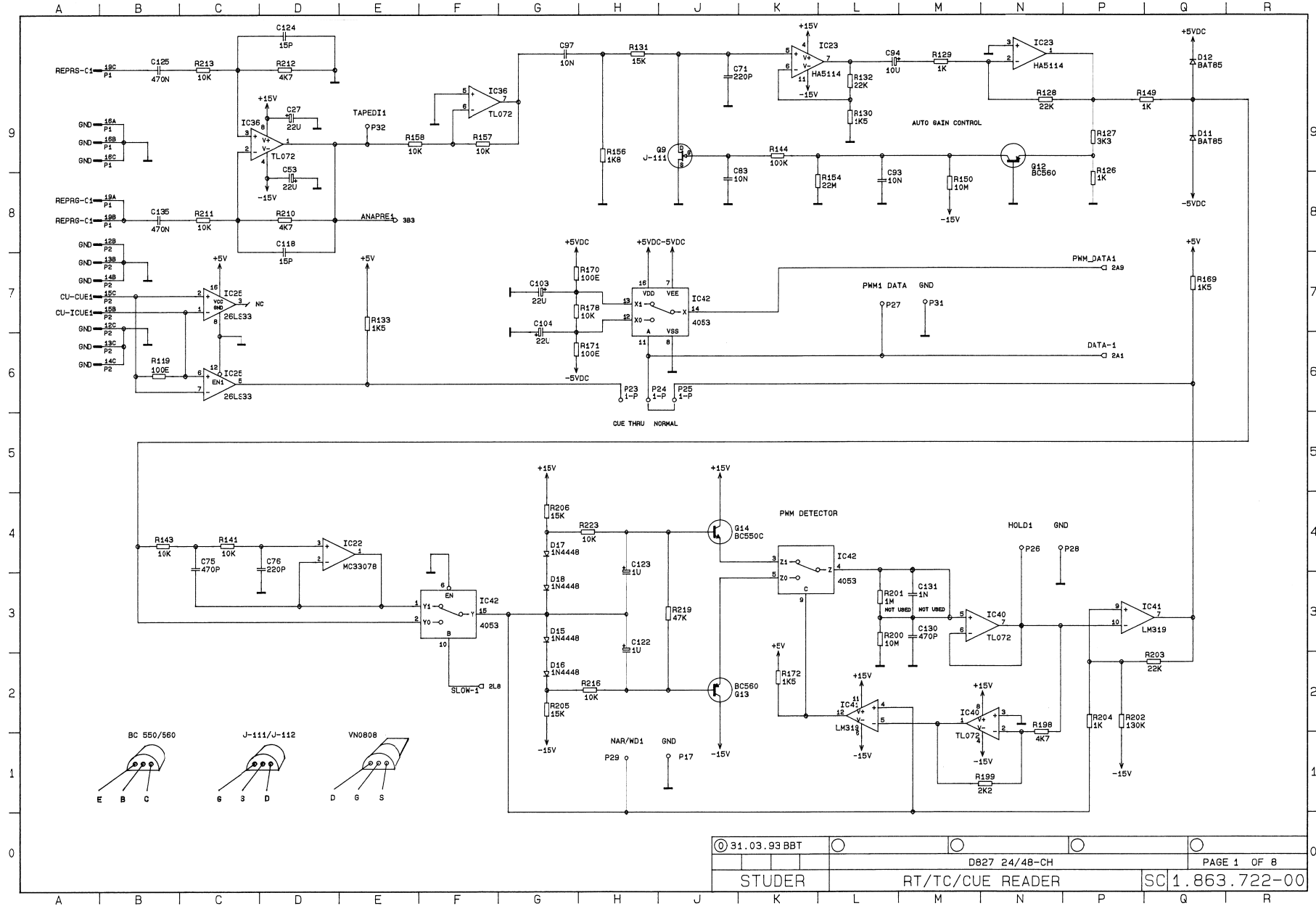
**BLOCK DIAGRAM**  
RT / TC / CUE Reader 1.863.722



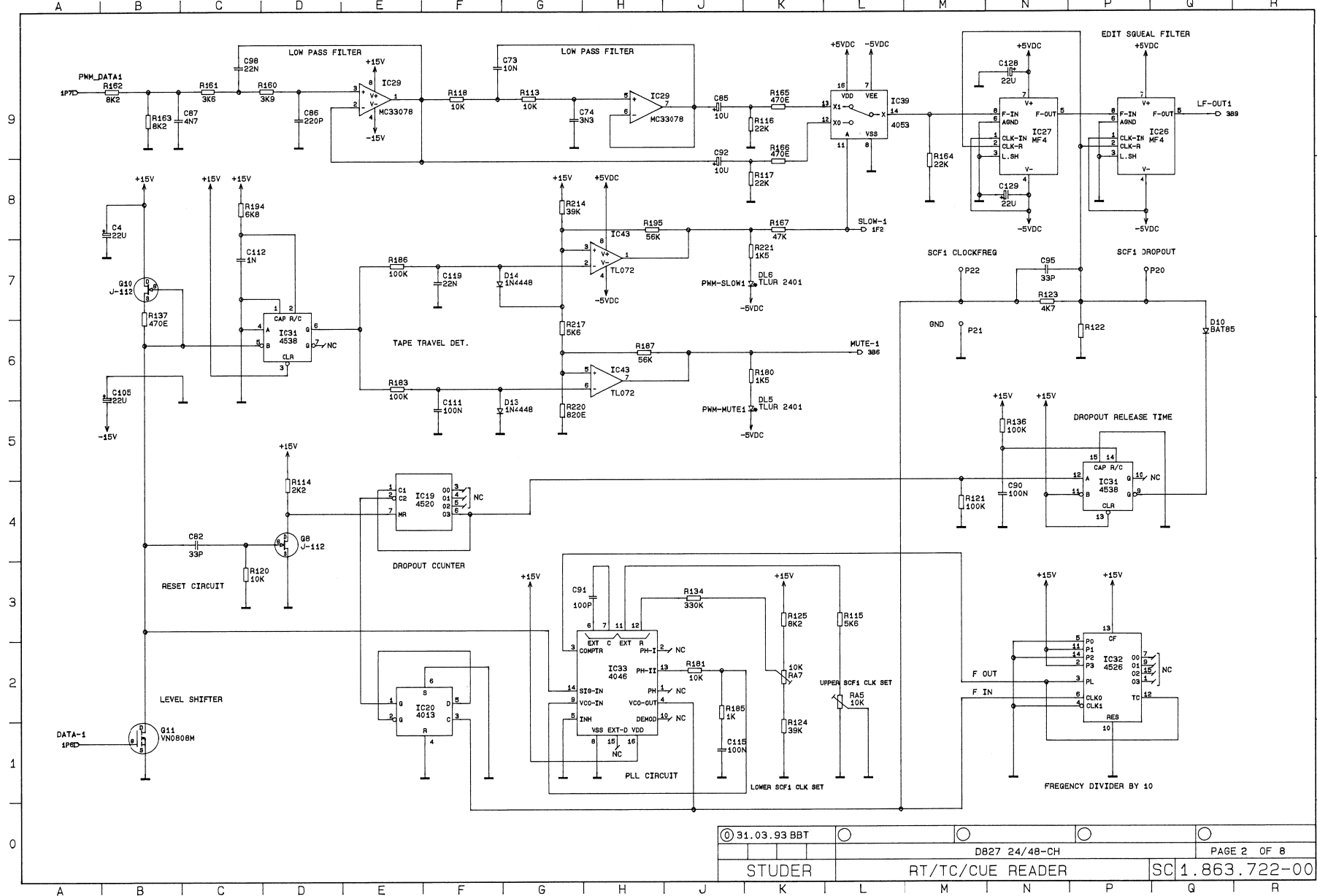


STUDER D827 MCH

RT / TC / CUE READER 1.863.722.00

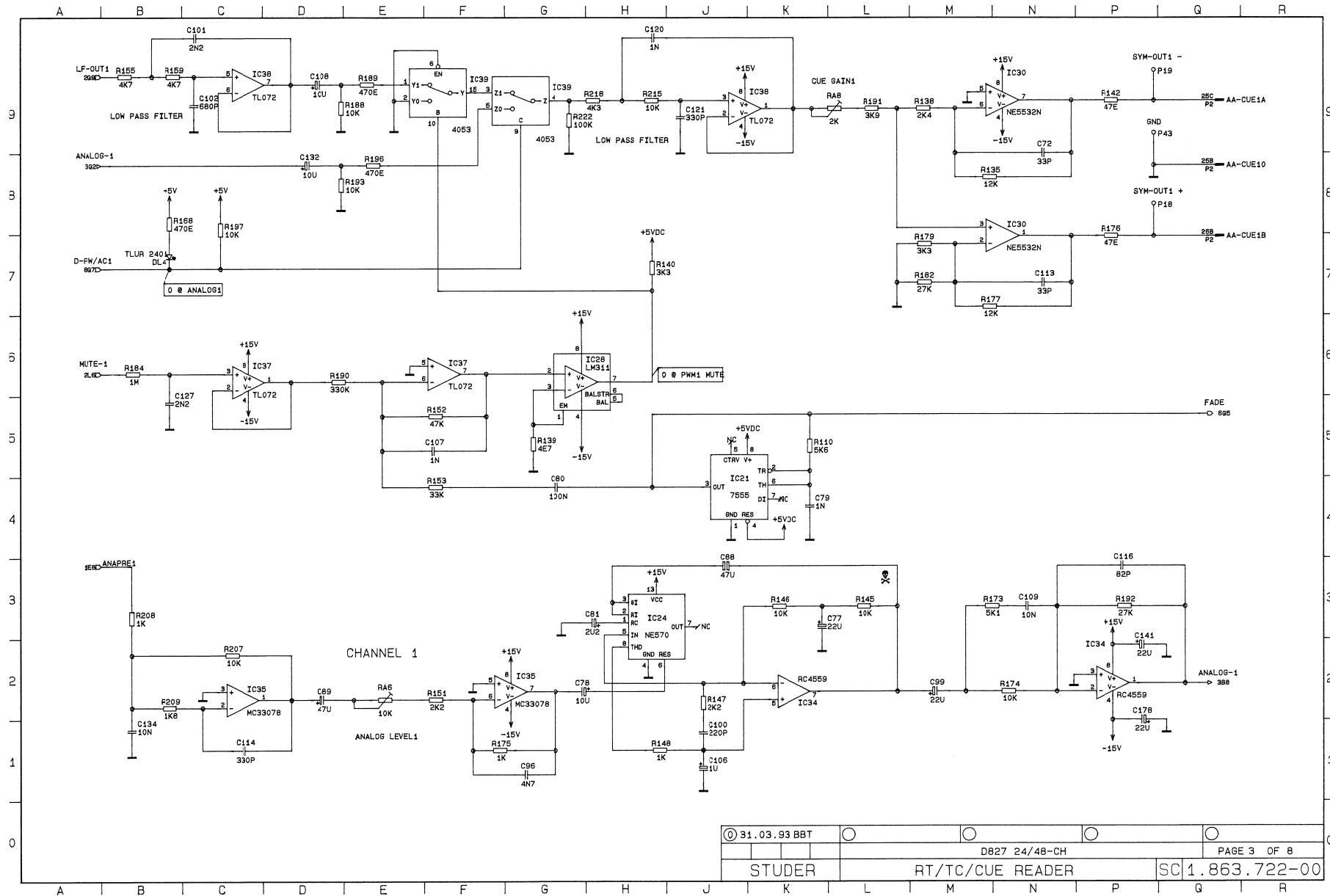


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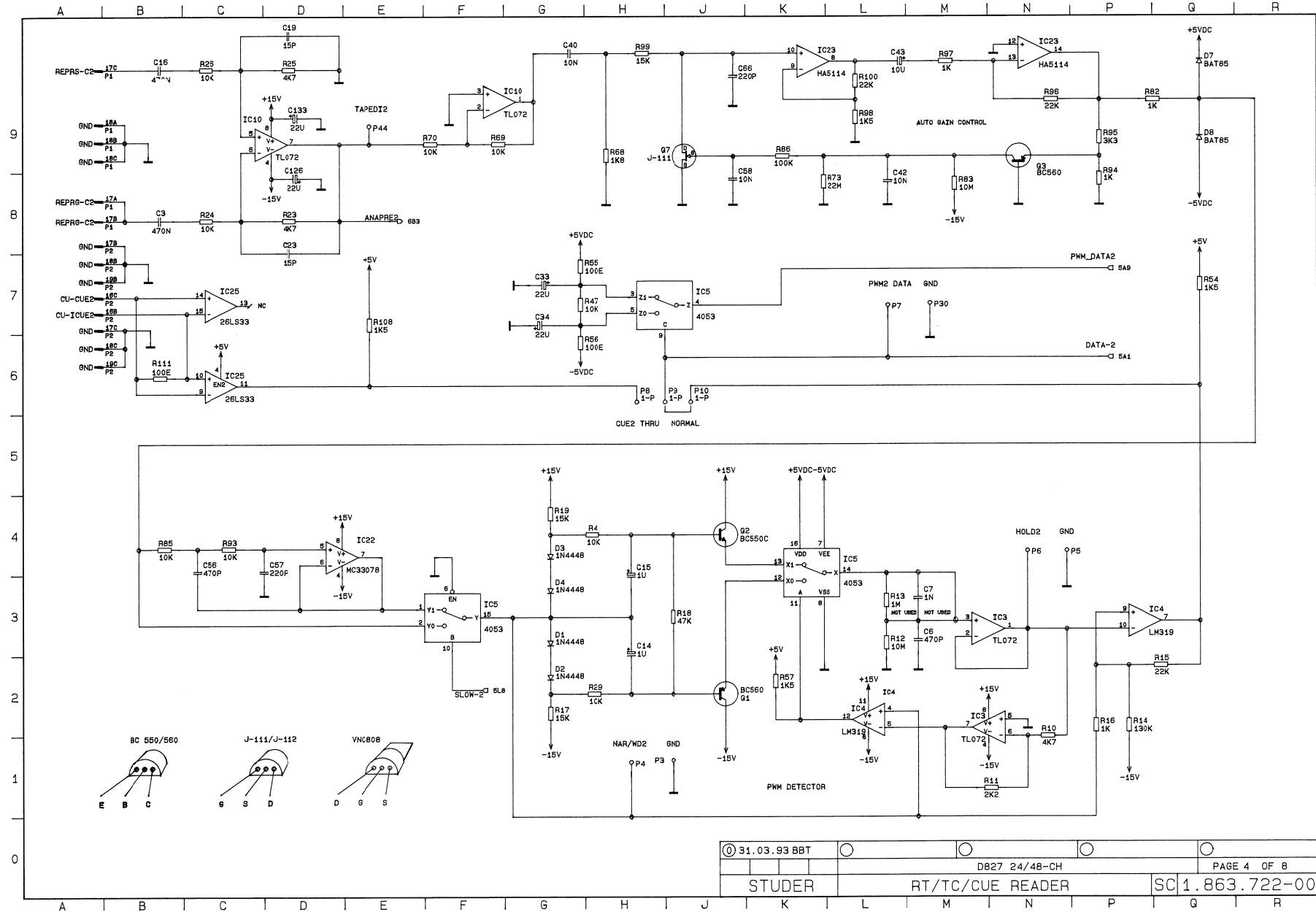


STUDER D827 MCH

RT / TC / CUE READER 1.863.722.00



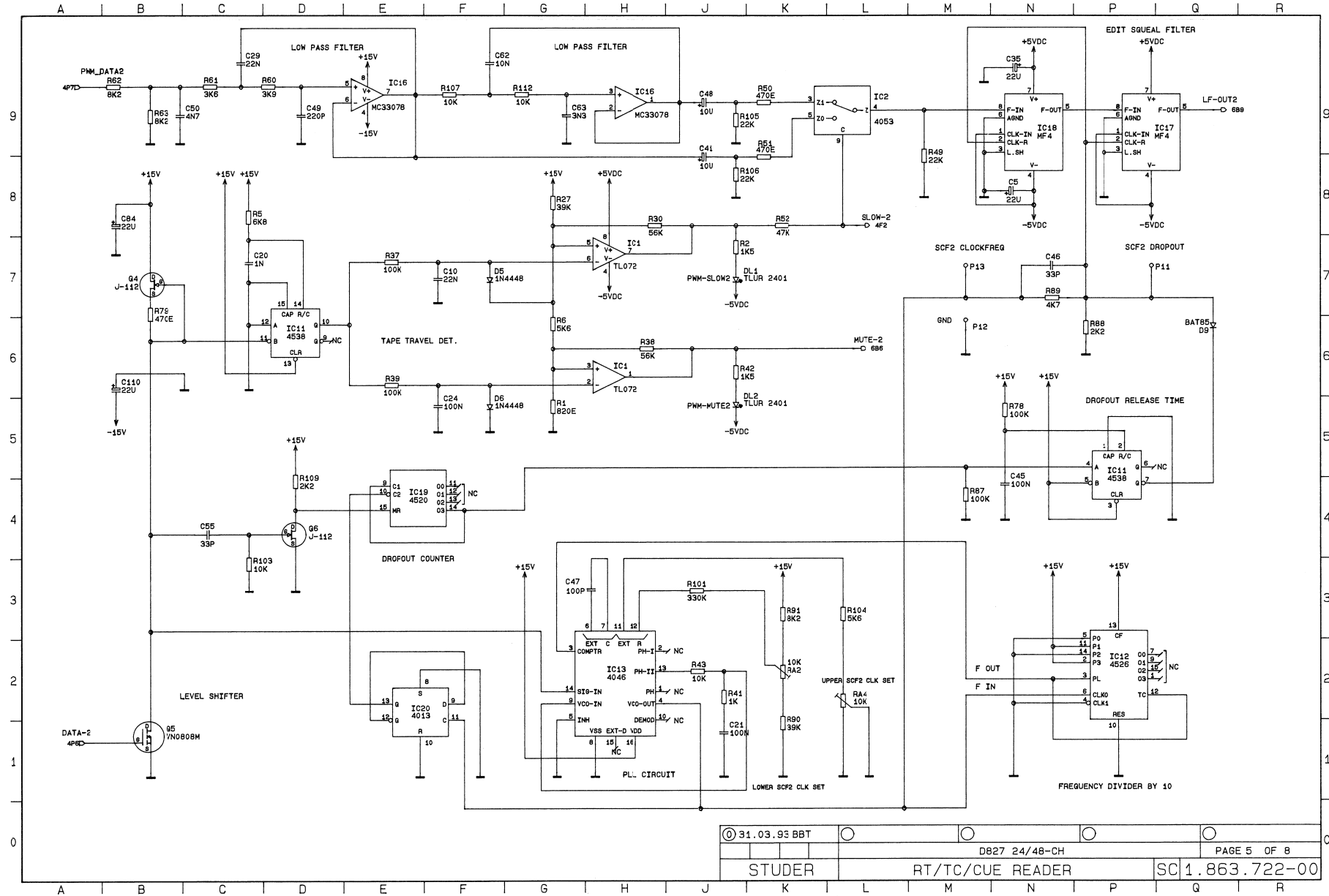
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| 31.03.93 BBT   |  |  |                  |  |
| STUDER         |  |  | RT/TC/CUE READER |  |
| D827 24/48-CH  |  |  | PAGE 3 OF 8      |  |
| SC1.863.722-00 |  |  |                  |  |



STUDER D827 MCH

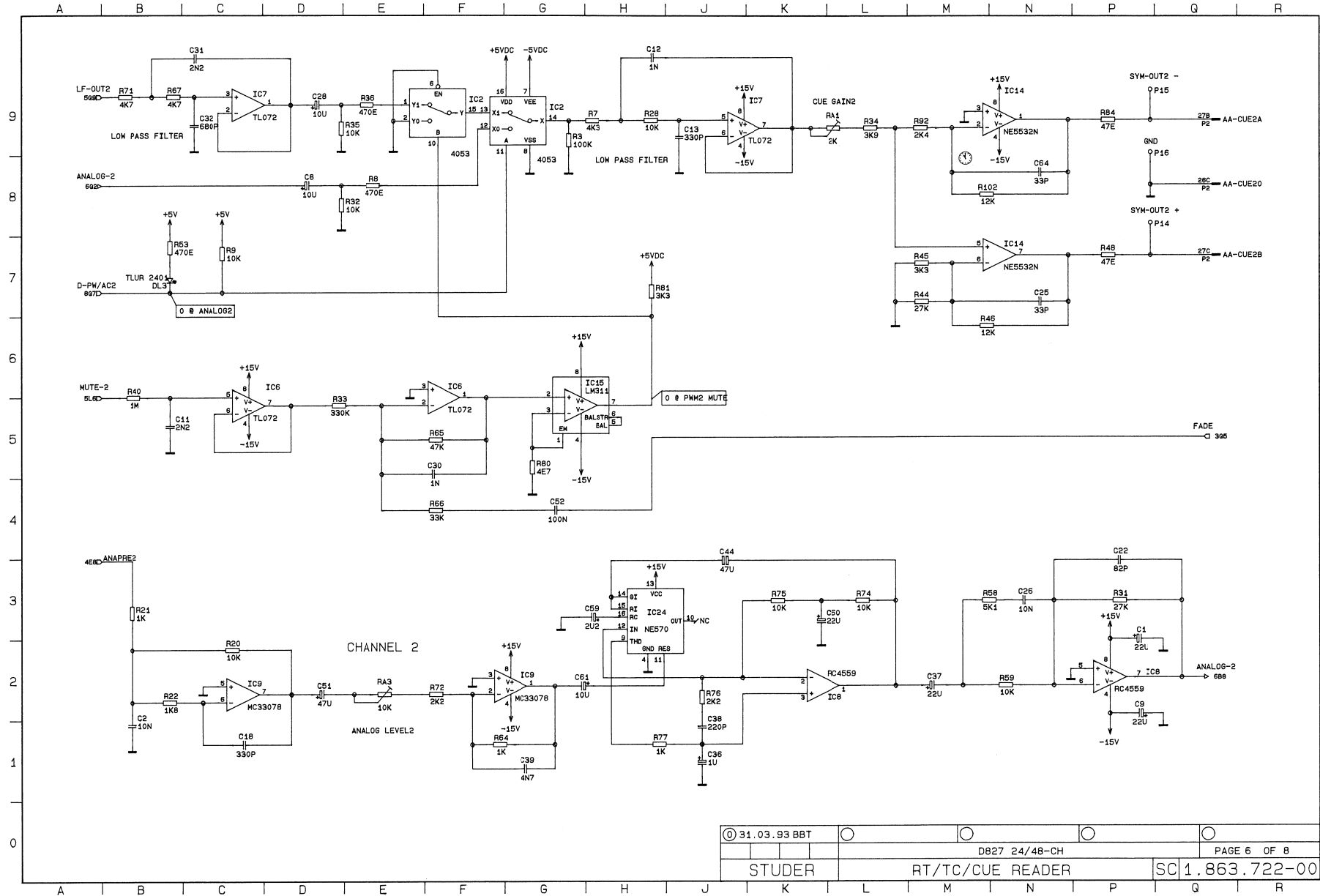


RT / TC / CUE READER 1.863.722.00



|              |  |                  |  |                |  |
|--------------|--|------------------|--|----------------|--|
| 31.03.93 BBT |  | D827 24/48-CH    |  | PAGE 5 OF 8    |  |
| STUDER       |  | RT/TC/CUE READER |  | SC1.863.722-00 |  |

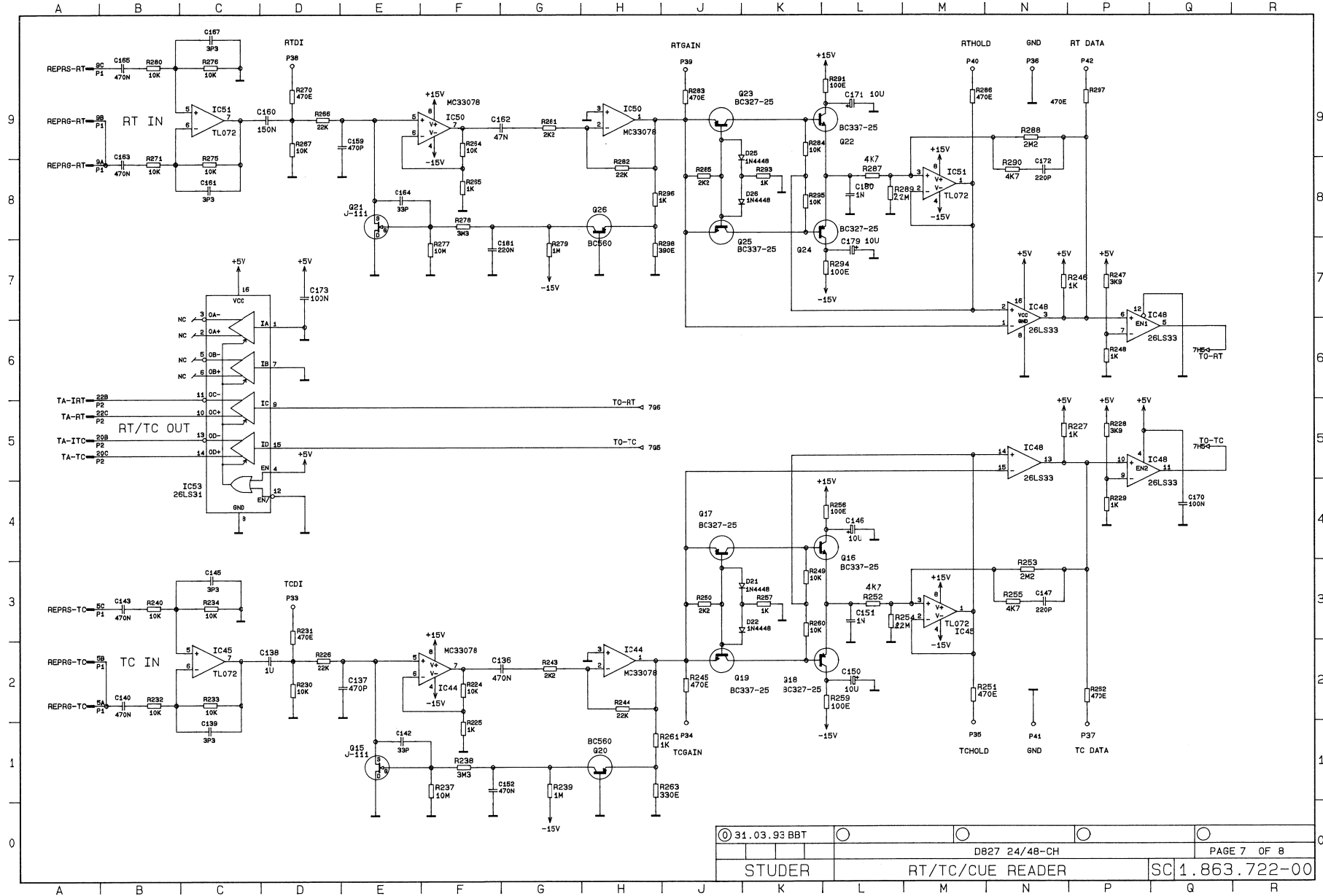
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STUDER D827 MCH

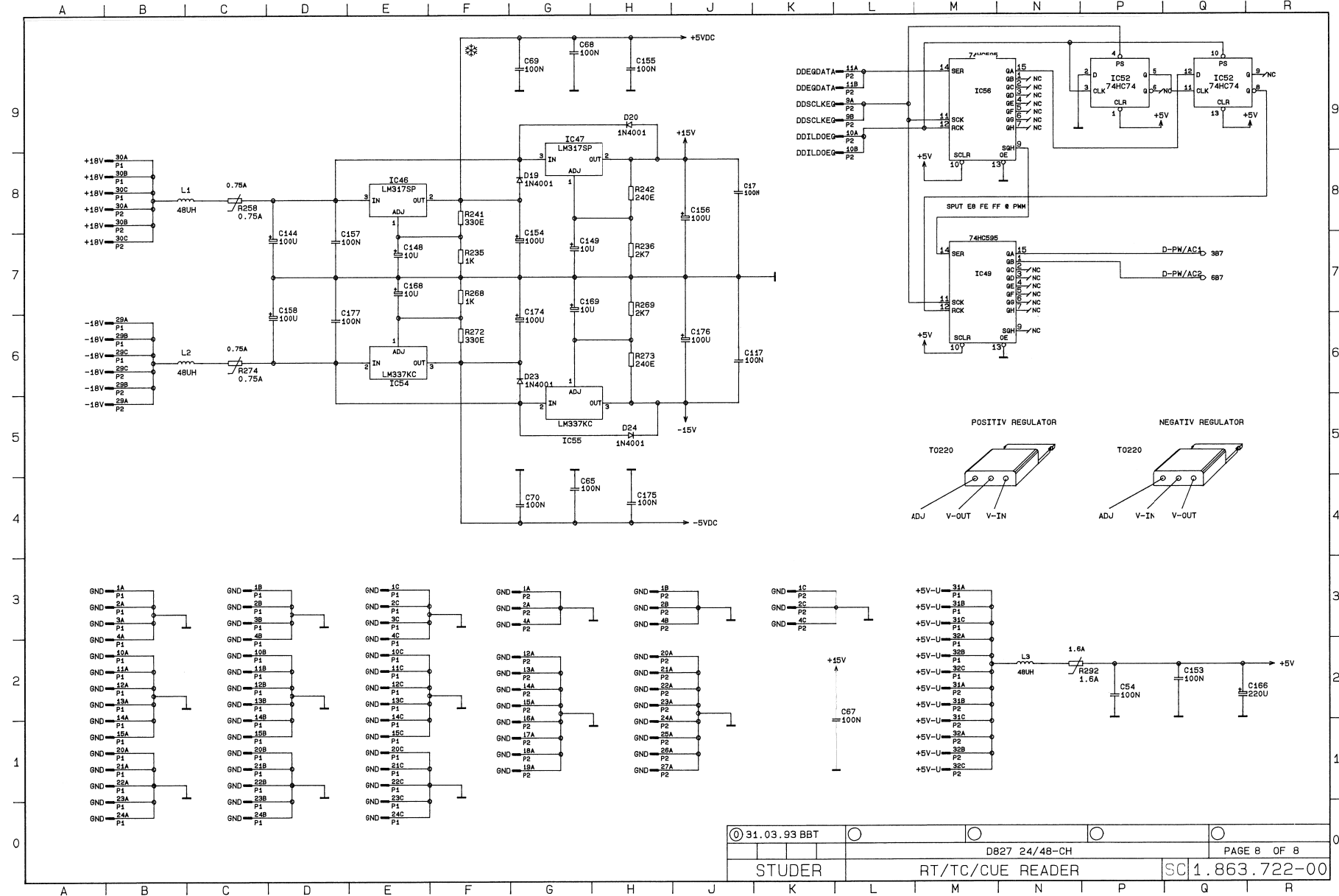


RT / TC / CUE READER 1.863.722.00



|              |                  |                |
|--------------|------------------|----------------|
| 31.03.93 BBT | D827 24/48-CH    | PAGE 7 OF 8    |
| STUDER       | RT/TC/CUE READER | SC1.863.722-00 |

RT / TC / CUE READER 1.863.722.00



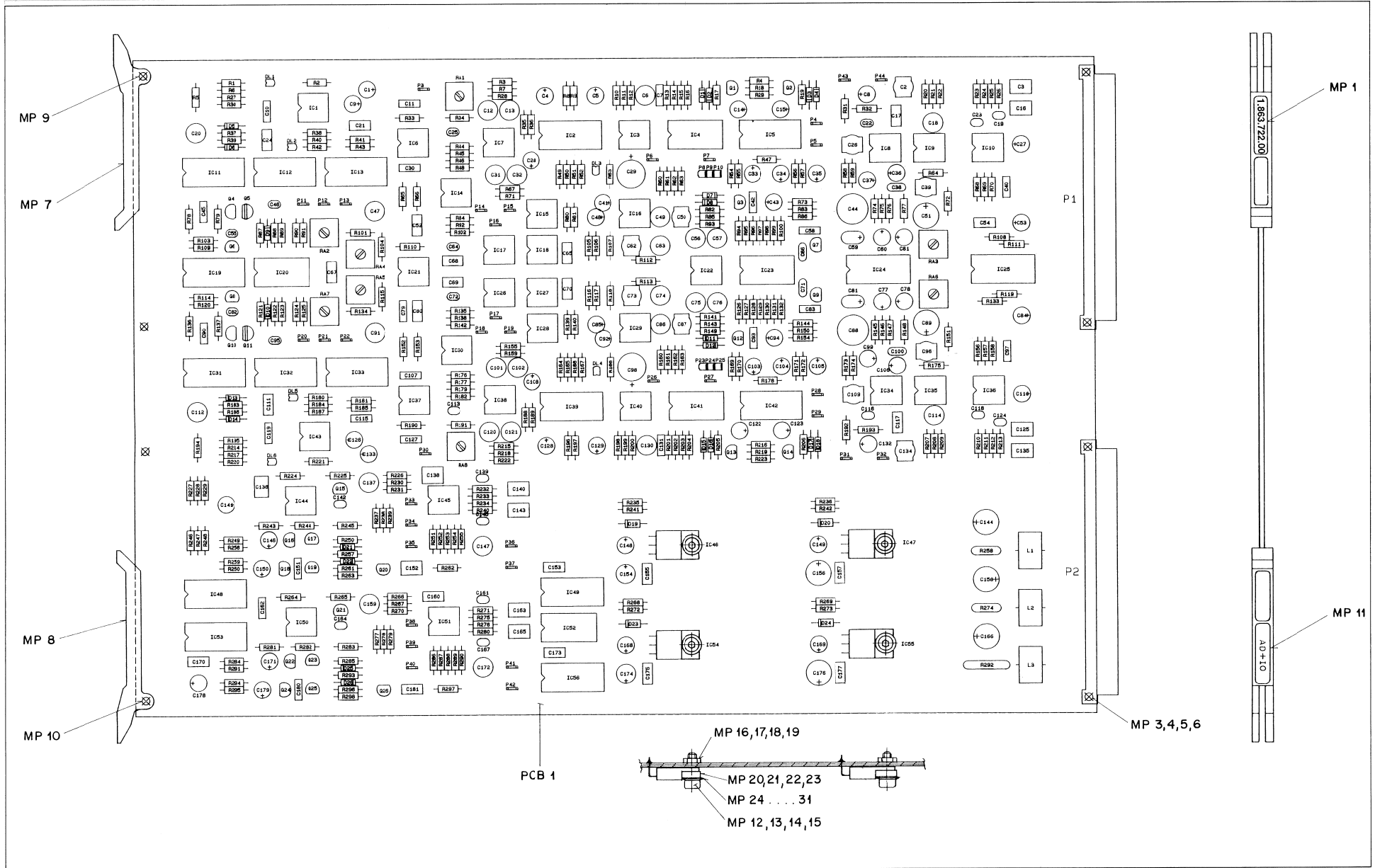
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|----------------|------------------|-----------------|
| © 31.03.93 BBT | D827 24/48-CH    | PAGE 8 OF 8     |
| STUDER         | RT/TC/CUE READER | SC 1.863.722-00 |



STUDER D827 MCH



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STUDER D827 MCH

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Main assembly drawing table with columns: Ad, POS., REF.No., DESCRIPTION, MANUFACTURER. Multiple columns of parts and their specifications.



RT / TC / CUE READER 1.863.722.00

| Ad      | ..POS..    | ..REF.No.. | DESCRIPTION..... | MANUFACTURER | Ad      | ..POS..    | ..REF.No.. | DESCRIPTION..... | MANUFACTURER |
|---------|------------|------------|------------------|--------------|---------|------------|------------|------------------|--------------|
| R....5  | 57.11.3682 | 6k8        | 1 %              | MF           | R...101 | 57.11.3334 | 330k       | 1 %              | MF           |
| R....6  | 57.11.3562 | 5k6        | 1 %              | MF           | R...102 | 57.11.3123 | 12k        | 1 %              | MF           |
| R....7  | 57.11.3432 | 4k3        | 1 %              | MF           | R...103 | 57.11.3103 | 10k        | 1 %              | MF           |
| R....8  | 57.11.3471 | 470E       | 1 %              | MF           | R...104 | 57.11.3562 | 5k6        | 1 %              | MF           |
| R....9  | 57.11.3103 | 10k        | 1 %              | MF           | R...105 | 57.11.3223 | 22k        | 1 %              | MF           |
| R....10 | 57.11.3472 | 4k7        | 1 %              | MF           | R...106 | 57.11.3223 | 22k        | 1 %              | MF           |
| R....11 | 57.11.3222 | 2k2        | 1 %              | MF           | R...107 | 57.11.3103 | 10k        | 1 %              | MF           |
| R....12 | 57.11.5106 | 10M        | 5 %              | MF           | R...108 | 57.11.3152 | 1k5        | 1 %              | MF           |
| R....13 | 57.11.3000 | 0          | 1 %              | MF           | R...109 | 57.11.3222 | 2k2        | 1 %              | MF           |
| R....14 | 57.11.3134 | 130k       | 1 %              | MF           | R...110 | 57.11.3562 | 5k6        | 1 %              | MF           |
| R....15 | 57.11.3223 | 22k        | 1 %              | MF           | R...111 | 57.11.3101 | 100E       | 1 %              | MF           |
| R....16 | 57.11.3102 | 1k         | 1 %              | MF           | R...112 | 57.11.3103 | 10k        | 1 %              | MF           |
| R....17 | 57.11.3153 | 15k        | 1 %              | MF           | R...113 | 57.11.3103 | 10k        | 1 %              | MF           |
| R....18 | 57.11.3473 | 47k        | 1 %              | MF           | R...114 | 57.11.3222 | 2k2        | 1 %              | MF           |
| R....19 | 57.11.3153 | 15k        | 1 %              | MF           | R...115 | 57.11.3562 | 5k6        | 1 %              | MF           |
| R....20 | 57.11.3103 | 10k        | 1 %              | MF           | R...116 | 57.11.3223 | 22k        | 1 %              | MF           |
| R....21 | 57.11.3102 | 1k         | 1 %              | MF           | R...117 | 57.11.3223 | 22k        | 1 %              | MF           |
| R....22 | 57.11.3182 | 1k8        | 1 %              | MF           | R...118 | 57.11.3103 | 10k        | 1 %              | MF           |
| R....23 | 57.11.3472 | 4k7        | 1 %              | MF           | R...119 | 57.11.3101 | 100E       | 1 %              | MF           |
| R....24 | 57.11.3103 | 10k        | 1 %              | MF           | R...120 | 57.11.3103 | 10k        | 1 %              | MF           |
| R....25 | 57.11.3472 | 4k7        | 1 %              | MF           | R...121 | 57.11.3104 | 100k       | 1 %              | MF           |
| R....26 | 57.11.3103 | 10k        | 1 %              | MF           | R...122 | 57.11.3222 | 2k2        | 1 %              | MF           |
| R....27 | 57.11.3393 | 39k        | 1 %              | MF           | R...123 | 57.11.3472 | 4k7        | 1 %              | MF           |
| R....28 | 57.11.3103 | 10k        | 1 %              | MF           | R...124 | 57.11.3393 | 39k        | 1 %              | MF           |
| R....29 | 57.11.3103 | 10k        | 1 %              | MF           | R...125 | 57.11.3822 | 8k2        | 1 %              | MF           |
| R....30 | 57.11.3563 | 56k        | 1 %              | MF           | R...126 | 57.11.3102 | 1k         | 1 %              | MF           |
| R...31  | 57.11.3273 | 27k        | 1 %              | MF           | R...127 | 57.11.3332 | 3k3        | 1 %              | MF           |
| R...32  | 57.11.3103 | 10k        | 1 %              | MF           | R...128 | 57.11.3223 | 22k        | 1 %              | MF           |
| R...33  | 57.11.3334 | 330k       | 1 %              | MF           | R...129 | 57.11.3102 | 1k         | 1 %              | MF           |
| R...34  | 57.11.3392 | 3k9        | 1 %              | MF           | R...130 | 57.11.3152 | 1k5        | 1 %              | MF           |
| R...35  | 57.11.3103 | 10k        | 1 %              | MF           | R...131 | 57.11.3153 | 15k        | 1 %              | MF           |
| R...36  | 57.11.3471 | 470E       | 1 %              | MF           | R...132 | 57.11.3223 | 22k        | 1 %              | MF           |
| R...37  | 57.11.3104 | 100k       | 1 %              | MF           | R...133 | 57.11.3152 | 1k5        | 1 %              | MF           |
| R...38  | 57.11.3563 | 56k        | 1 %              | MF           | R...134 | 57.11.3334 | 330k       | 1 %              | MF           |
| R...39  | 57.11.3104 | 100k       | 1 %              | MF           | R...135 | 57.11.3123 | 12k        | 1 %              | MF           |
| R....40 | 57.11.3105 | 1M         | 1 %              | MF           | R...136 | 57.11.3104 | 100k       | 1 %              | MF           |
| R....41 | 57.11.3102 | 1k         | 1 %              | MF           | R...137 | 57.11.3471 | 470E       | 1 %              | MF           |
| R....42 | 57.11.3152 | 1k5        | 1 %              | MF           | R...138 | 57.11.3242 | 2k4        | 1 %              | MF           |
| R....43 | 57.11.3103 | 10k        | 1 %              | MF           | R...139 | 57.11.3479 | 4E7        | 1 %              | MF           |
| R....44 | 57.11.3273 | 27k        | 1 %              | MF           | R...140 | 57.11.3332 | 3k3        | 1 %              | MF           |
| R....45 | 57.11.3332 | 3k3        | 1 %              | MF           | R...141 | 57.11.3103 | 10k        | 1 %              | MF           |
| R....46 | 57.11.3123 | 12k        | 1 %              | MF           | R...142 | 57.11.3470 | 47E        | 1 %              | MF           |
| R....47 | 57.11.3103 | 10k        | 1 %              | MF           | R...143 | 57.11.3103 | 10k        | 1 %              | MF           |
| R....48 | 57.11.3470 | 47E        | 1 %              | MF           | R...144 | 57.11.3104 | 100k       | 1 %              | MF           |
| R....49 | 57.11.3223 | 22k        | 1 %              | MF           | R...145 | 57.11.3103 | 10k        | 1 %              | MF           |
| R....50 | 57.11.3471 | 470E       | 1 %              | MF           | R...146 | 57.11.3103 | 10k        | 1 %              | MF           |
| R....51 | 57.11.3471 | 470E       | 1 %              | MF           | R...147 | 57.11.3222 | 2k2        | 1 %              | MF           |
| R....52 | 57.11.3473 | 47k        | 1 %              | MF           | R...148 | 57.11.3102 | 1k         | 1 %              | MF           |
| R....53 | 57.11.3471 | 470E       | 1 %              | MF           | R...149 | 57.11.3102 | 1k         | 1 %              | MF           |
| R....54 | 57.11.3152 | 1k5        | 1 %              | MF           | R...150 | 57.11.5106 | 10M        | 5 %              | MF           |
| R....55 | 57.11.3101 | 100E       | 1 %              | MF           | R...151 | 57.11.3222 | 2k2        | 1 %              | MF           |
| R....56 | 57.11.3101 | 100E       | 1 %              | MF           | R...152 | 57.11.3473 | 47k        | 1 %              | MF           |
| R....57 | 57.11.3152 | 1k5        | 1 %              | MF           | R...153 | 57.11.3333 | 33k        | 1 %              | MF           |
| R....58 | 57.11.3512 | 5k1        | 1 %              | MF           | R...154 | 57.11.6226 | 22M        | 10 %             | MF           |
| R....59 | 57.11.3103 | 10k        | 1 %              | MF           | R...155 | 57.11.3472 | 4k7        | 1 %              | MF           |
| R....60 | 57.11.3392 | 3k9        | 1 %              | MF           | R...156 | 57.11.3182 | 1k8        | 1 %              | MF           |
| R....61 | 57.11.3362 | 3k6        | 1 %              | MF           | R...157 | 57.11.3103 | 10k        | 1 %              | MF           |
| R....62 | 57.11.3822 | 8k2        | 1 %              | MF           | R...158 | 57.11.3103 | 10k        | 1 %              | MF           |
| R....63 | 57.11.3822 | 8k2        | 1 %              | MF           | R...159 | 57.11.3472 | 4k7        | 1 %              | MF           |
| R....64 | 57.11.3102 | 1k         | 1 %              | MF           | R...160 | 57.11.3392 | 3k9        | 1 %              | MF           |
| R....65 | 57.11.3473 | 47k        | 1 %              | MF           | R...161 | 57.11.3362 | 3k6        | 1 %              | MF           |
| R....66 | 57.11.3333 | 33k        | 1 %              | MF           | R...162 | 57.11.3822 | 8k2        | 1 %              | MF           |
| R....67 | 57.11.3472 | 4k7        | 1 %              | MF           | R...163 | 57.11.3822 | 8k2        | 1 %              | MF           |
| R....68 | 57.11.3182 | 1k8        | 1 %              | MF           | R...164 | 57.11.3223 | 22k        | 1 %              | MF           |
| R....69 | 57.11.3103 | 10k        | 1 %              | MF           | R...165 | 57.11.3471 | 470E       | 1 %              | MF           |
| R....70 | 57.11.3103 | 10k        | 1 %              | MF           | R...166 | 57.11.3471 | 470E       | 1 %              | MF           |
| R....71 | 57.11.3472 | 4k7        | 1 %              | MF           | R...167 | 57.11.3473 | 47k        | 1 %              | MF           |
| R....72 | 57.11.3222 | 2k2        | 1 %              | MF           | R...168 | 57.11.3471 | 470E       | 1 %              | MF           |
| R....73 | 57.11.6226 | 22M        | 10 %             | MF           | R...169 | 57.11.3152 | 1k5        | 1 %              | MF           |
| R....74 | 57.11.3103 | 10k        | 1 %              | MF           | R...170 | 57.11.3101 | 100E       | 1 %              | MF           |
| R....75 | 57.11.3103 | 10k        | 1 %              | MF           | R...171 | 57.11.3101 | 100E       | 1 %              | MF           |
| R....76 | 57.11.3222 | 2k2        | 1 %              | MF           | R...172 | 57.11.3152 | 1k5        | 1 %              | MF           |
| R....77 | 57.11.3102 | 1k         | 1 %              | MF           | R...173 | 57.11.3512 | 5k1        | 1 %              | MF           |
| R....78 | 57.11.3104 | 100k       | 1 %              | MF           | R...174 | 57.11.3103 | 10k        | 1 %              | MF           |
| R....79 | 57.11.3471 | 470E       | 1 %              | MF           | R...175 | 57.11.3102 | 1k         | 1 %              | MF           |
| R....80 | 57.11.3479 | 4E7        | 1 %              | MF           | R...176 | 57.11.3470 | 47E        | 1 %              | MF           |
| R....81 | 57.11.3332 | 3k3        | 1 %              | MF           | R...177 | 57.11.3123 | 12k        | 1 %              | MF           |
| R....82 | 57.11.3102 | 1k         | 1 %              | MF           | R...178 | 57.11.3103 | 10k        | 1 %              | MF           |
| R....83 | 57.11.5106 | 10M        | 5 %              | MF           | R...179 | 57.11.3332 | 3k3        | 1 %              | MF           |
| R....84 | 57.11.3470 | 47E        | 1 %              | MF           | R...180 | 57.11.3152 | 1k5        | 1 %              | MF           |
| R....85 | 57.11.3103 | 10k        | 1 %              | MF           | R...181 | 57.11.3103 | 10k        | 1 %              | MF           |
| R....86 | 57.11.3104 | 100k       | 1 %              | MF           | R...182 | 57.11.3273 | 27k        | 1 %              | MF           |
| R....87 | 57.11.3104 | 100k       | 1 %              | MF           | R...183 | 57.11.3104 | 100k       | 1 %              | MF           |
| R....88 | 57.11.3222 | 2k2        | 1 %              | MF           | R...184 | 57.11.3105 | 1M         | 1 %              | MF           |
| R....89 | 57.11.3472 | 4k7        | 1 %              | MF           | R...185 | 57.11.3102 | 1k         | 1 %              | MF           |
| R....90 | 57.11.3393 | 39k        | 1 %              | MF           | R...186 | 57.11.3104 | 100k       | 1 %              | MF           |
| R....91 | 57.11.3822 | 8k2        | 1 %              | MF           | R...187 | 57.11.3563 | 56k        | 1 %              | MF           |
| R....92 | 57.11.3242 | 2k4        | 1 %              | MF           | R...188 | 57.11.3103 | 10k        | 1 %              | MF           |
| R....93 | 57.11.3103 | 10k        | 1 %              | MF           | R...189 | 57.11.3471 | 470E       | 1 %              | MF           |
| R....94 | 57.11.3102 | 1k         | 1 %              | MF           | R...190 | 57.11.3334 | 330k       | 1 %              | MF           |
| R....95 | 57.11.3332 | 3k3        | 1 %              | MF           | R...191 | 57.11.3392 | 3k9        | 1 %              | MF           |
| R....96 | 57.11.3223 | 22k        | 1 %              | MF           | R...192 | 57.11.3273 | 27k        | 1 %              | MF           |
| R....97 | 57.11.3102 | 1k         | 1 %              | MF           | R...193 | 57.11.3103 | 10k        | 1 %              | MF           |
| R....98 | 57.11.3152 | 1k5        | 1 %              | MF           | R...194 | 57.11.3682 | 6k8        | 1 %              | MF           |
| R....99 | 57.11.3153 | 15k        | 1 %              | MF           | R...195 | 57.11.3563 | 56k        | 1 %              | MF           |
| R...100 | 57.11.3223 | 22k        | 1 %              | MF           | R...196 | 57.11.3471 | 470E       | 1 %              | MF           |
|         |            |            |                  |              | R...197 | 57.11.3103 | 10k        | 1 %              | MF           |



RT / TC / CUE READER 1.863.722.00

| Ad   | ..POS.. | ..REF.No.. | DESCRIPTION..... | MANUFACTURER    | Ad  | ..POS.. | ..REF.No.. | DESCRIPTION..... | MANUFACTURER    |
|------|---------|------------|------------------|-----------------|---|---------|------------|------------------|-----------------|
| R... | 198     | 57.11.3472 | 4k7              | 1 %, MF         | R...  | 294     | 57.11.3101 | 100E             | 1 %, MF         |
| R... | 199     | 57.11.3222 | 2k2              | 1 %, MF         | R...  | 295     | 57.11.3103 | 10k              | 1 %, MF         |
| R... | 200     | 57.11.5106 | 10M              | 5 %, MF         | R...  | 296     | 57.11.3102 | 1k               | 1 %, MF         |
| R... | 201     | 57.11.3000 | 0                | 1 %, MF         | R...  | 297     | 57.11.3471 | 470E             | 1 %, MF         |
| R... | 202     | 57.11.3134 | 130k             | 1 %, MF         | R...  | 298     | 57.11.3391 | 390E             | 1 %, 0.6W, MF   |
| R... | 203     | 57.11.3223 | 22k              | 1 %, MF         | RA....                                      | 1       | 58.01.8202 | PGM              | 0.5W, 2K, 3/8"  |
| R... | 204     | 57.11.3102 | 1k               | 1 %, MF         | RA....                                      | 2       | 58.01.8103 | PGM              | 0.5W, 10K, 3/8" |
| R... | 205     | 57.11.3153 | 15k              | 1 %, MF         | RA....                                      | 3       | 58.01.8103 | PGM              | 0.5W, 10K, 3/8" |
| R... | 206     | 57.11.3153 | 15k              | 1 %, MF         | RA....                                      | 4       | 58.01.8103 | PGM              | 0.5W, 10K, 3/8" |
| R... | 207     | 57.11.3103 | 10k              | 1 %, MF         | RA....                                      | 5       | 58.01.8103 | PGM              | 0.5W, 10K, 3/8" |
| R... | 208     | 57.11.3102 | 1k               | 1 %, MF         | RA....                                      | 6       | 58.01.8103 | PGM              | 0.5W, 10K, 3/8" |
| R... | 209     | 57.11.3182 | 1k8              | 1 %, MF         | RA....                                      | 7       | 58.01.8103 | PGM              | 0.5W, 10K, 3/8" |
| R... | 210     | 57.11.3472 | 4k7              | 1 %, MF         | RA....                                      | 8       | 58.01.8202 | PGM              | 0.5W, 2K, 3/8"  |
| R... | 211     | 57.11.3103 | 10k              | 1 %, MF         | XIC..                                       | 10      | 53.03.0166 | DIL 8            | SOCKET OF IC 10 |
| R... | 212     | 57.11.3472 | 4k7              | 1 %, MF         | XIC..                                       | 13      | 53.03.0168 | DIL 16           | SOCKET OF IC 13 |
| R... | 213     | 57.11.3103 | 10k              | 1 %, MF         | XIC..                                       | 14      | 53.03.0166 | DIL 8            | SOCKET OF IC 14 |
| R... | 214     | 57.11.3393 | 39k              | 1 %, MF         | XIC..                                       | 19      | 53.03.0168 | DIL 16           | SOCKET OF IC 19 |
| R... | 215     | 57.11.3103 | 10k              | 1 %, MF         | XIC..                                       | 24      | 53.03.0168 | DIL 16           | SOCKET OF IC 24 |
| R... | 216     | 57.11.3103 | 10k              | 1 %, MF         | XIC..                                       | 25      | 53.03.0168 | DIL 16           | SOCKET OF IC 25 |
| R... | 217     | 57.11.3562 | 5k6              | 1 %, MF         | XIC..                                       | 30      | 53.03.0166 | DIL 8            | SOCKET OF IC 30 |
| R... | 218     | 57.11.3432 | 4k3              | 1 %, MF         | XIC..                                       | 33      | 53.03.0168 | DIL 16           | SOCKET OF IC 33 |
| R... | 219     | 57.11.3473 | 47k              | 1 %, MF         | XIC..                                       | 36      | 53.03.0166 | DIL 8            | SOCKET OF IC 36 |
| R... | 220     | 57.11.3821 | 820E             | 1 %, MF         | XIC..                                       | 45      | 53.03.0166 | DIL 8            | SOCKET OF IC 45 |
| R... | 221     | 57.11.3152 | 1k5              | 1 %, MF         | XIC..                                       | 51      | 53.03.0166 | DIL 8            | SOCKET OF IC 51 |
| R... | 222     | 57.11.3104 | 100k             | 1 %, MF         | XIC..                                       | 53      | 53.03.0168 | DIL 16           | SOCKET OF IC 53 |
| R... | 223     | 57.11.3103 | 10k              | 1 %, MF         | 1.863.722-00 RT/TC/CUE READER BBT93/03/3100 |         |            |                  |                 |
| R... | 224     | 57.11.3103 | 10k              | 1 %, MF         | END   |         |            |                  |                 |
| R... | 225     | 57.11.3102 | 1k               | 1 %, MF         |   |         |            |                  |                 |
| R... | 226     | 57.11.3223 | 22k              | 1 %, MF         |   |         |            |                  |                 |
| R... | 227     | 57.11.3102 | 1k               | 1 %, MF         |   |         |            |                  |                 |
| R... | 228     | 57.11.3392 | 3k9              | 1 %, MF         |   |         |            |                  |                 |
| R... | 229     | 57.11.3102 | 1k               | 1 %, MF         |   |         |            |                  |                 |
| R... | 230     | 57.11.3103 | 10k              | 1 %, MF         |   |         |            |                  |                 |
| R... | 231     | 57.11.3471 | 470E             | 1 %, MF         |   |         |            |                  |                 |
| R... | 232     | 57.11.3103 | 10k              | 1 %, MF         |   |         |            |                  |                 |
| R... | 233     | 57.11.3103 | 10k              | 1 %, MF         |   |         |            |                  |                 |
| R... | 234     | 57.11.3103 | 10k              | 1 %, MF         |   |         |            |                  |                 |
| R... | 235     | 57.11.3102 | 1k               | 1 %, MF         |   |         |            |                  |                 |
| R... | 236     | 57.11.3272 | 2k7              | 1 %, 0.6W, MF   |   |         |            |                  |                 |
| R... | 237     | 57.11.5106 | 10M              | 5 %, MF         |   |         |            |                  |                 |
| R... | 238     | 57.11.5335 | 3M3              | 5 %, 0.4W, MF   |   |         |            |                  |                 |
| R... | 239     | 57.11.3105 | 1M               | 1 %, MF         |   |         |            |                  |                 |
| R... | 240     | 57.11.3103 | 10k              | 1 %, MF         |   |         |            |                  |                 |
| R... | 241     | 57.11.3331 | 330E             | 1 %, MF         |   |         |            |                  |                 |
| R... | 242     | 57.11.3241 | 240E             | 1 %, 0.6W, MF   |   |         |            |                  |                 |
| R... | 243     | 57.11.3222 | 2k2              | 1 %, MF         |   |         |            |                  |                 |
| R... | 244     | 57.11.3223 | 22k              | 1 %, MF         |   |         |            |                  |                 |
| R... | 245     | 57.11.3471 | 470E             | 1 %, MF         |   |         |            |                  |                 |
| R... | 246     | 57.11.3102 | 1k               | 1 %, MF         |   |         |            |                  |                 |
| R... | 247     | 57.11.3392 | 3k9              | 1 %, MF         |   |         |            |                  |                 |
| R... | 248     | 57.11.3102 | 1k               | 1 %, MF         |   |         |            |                  |                 |
| R... | 249     | 57.11.3103 | 10k              | 1 %, MF         |   |         |            |                  |                 |
| R... | 250     | 57.11.3222 | 2k2              | 1 %, MF         |   |         |            |                  |                 |
| R... | 251     | 57.11.3471 | 470E             | 1 %, MF         |   |         |            |                  |                 |
| R... | 252     | 57.11.3472 | 4k7              | 1 %, MF         |   |         |            |                  |                 |
| R... | 253     | 57.11.5225 | 2M2              | 5 %, 0.4W, MF   |   |         |            |                  |                 |
| R... | 254     | 57.11.6226 | 22M              | 10 %, 0.25W, MF |   |         |            |                  |                 |
| R... | 255     | 57.11.3472 | 4k7              | 1 %, MF         |   |         |            |                  |                 |
| R... | 256     | 57.11.3101 | 100E             | 1 %, MF         |   |         |            |                  |                 |
| R... | 257     | 57.11.3102 | 1k               | 1 %, MF         |   |         |            |                  |                 |
| R... | 258     | 57.92.7020 | 0.75A            | 60V, R-PTC      |   |         |            |                  |                 |
| R... | 259     | 57.11.3101 | 100E             | 1 %, MF         |   |         |            |                  |                 |
| R... | 260     | 57.11.3103 | 10k              | 1 %, MF         |   |         |            |                  |                 |
| R... | 261     | 57.11.3102 | 1k               | 1 %, MF         |   |         |            |                  |                 |
| R... | 262     | 57.11.3471 | 470E             | 1 %, MF         |   |         |            |                  |                 |
| R... | 263     | 57.11.3331 | 330E             | 1 %, MF         |   |         |            |                  |                 |
| R... | 264     | 57.11.3103 | 10k              | 1 %, MF         |   |         |            |                  |                 |
| R... | 265     | 57.11.3102 | 1k               | 1 %, MF         |   |         |            |                  |                 |
| R... | 266     | 57.11.3223 | 22k              | 1 %, MF         |   |         |            |                  |                 |
| R... | 267     | 57.11.3103 | 10k              | 1 %, MF         |   |         |            |                  |                 |
| R... | 268     | 57.11.3102 | 1k               | 1 %, MF         |   |         |            |                  |                 |
| R... | 269     | 57.11.3272 | 2k7              | 1 %, 0.6W, MF   |   |         |            |                  |                 |
| R... | 270     | 57.11.3471 | 470E             | 1 %, MF         |   |         |            |                  |                 |
| R... | 271     | 57.11.3103 | 10k              | 1 %, MF         |   |         |            |                  |                 |
| R... | 272     | 57.11.3331 | 330E             | 1 %, MF         |   |         |            |                  |                 |
| R... | 273     | 57.11.3241 | 240E             | 1 %, 0.6W, MF   |   |         |            |                  |                 |
| R... | 274     | 57.92.7020 | 0.75A            | 60V, R-PTC      |   |         |            |                  |                 |
| R... | 275     | 57.11.3103 | 10k              | 1 %, MF         |   |         |            |                  |                 |
| R... | 276     | 57.11.3103 | 10k              | 1 %, MF         |   |         |            |                  |                 |
| R... | 277     | 57.11.5106 | 10M              | 5 %, MF         |   |         |            |                  |                 |
| R... | 278     | 57.11.5335 | 3M3              | 5 %, 0.4W, MF   |   |         |            |                  |                 |
| R... | 279     | 57.11.3105 | 1M               | 1 %, MF         |   |         |            |                  |                 |
| R... | 280     | 57.11.3103 | 10k              | 1 %, MF         |   |         |            |                  |                 |
| R... | 281     | 57.11.3222 | 2k2              | 1 %, MF         |   |         |            |                  |                 |
| R... | 282     | 57.11.3223 | 22k              | 1 %, MF         |   |         |            |                  |                 |
| R... | 283     | 57.11.3471 | 470E             | 1 %, MF         |   |         |            |                  |                 |
| R... | 284     | 57.11.3103 | 10k              | 1 %, MF         |   |         |            |                  |                 |
| R... | 285     | 57.11.3222 | 2k2              | 1 %, MF         |   |         |            |                  |                 |
| R... | 286     | 57.11.3471 | 470E             | 1 %, MF         |   |         |            |                  |                 |
| R... | 287     | 57.11.3472 | 4k7              | 1 %, MF         |   |         |            |                  |                 |
| R... | 288     | 57.11.5225 | 2M2              | 5 %, 0.4W, MF   |   |         |            |                  |                 |
| R... | 289     | 57.11.6226 | 22M              | 10 %, 0.25W, MF |   |         |            |                  |                 |
| R... | 290     | 57.11.3104 | 100k             | 1 %, MF         |   |         |            |                  |                 |
| R... | 291     | 57.11.3101 | 100E             | 1 %, MF         |   |         |            |                  |                 |
| R... | 292     | 57.92.7016 | 1.6A             | 50V, R-PTC      |   |         |            |                  |                 |
| R... | 293     | 57.11.3102 | 1k               | 1 %, MF         |   |         |            |                  |                 |

### 3 Diagrams Power Supply and Tape Deck Control

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| Tape Deck Serial Interface Block Diagram .....             | 1.820.763 3/69                 |
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| -Motor Tacho Board .....                                   | 1.820.771.84 3/81              |
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| -Tape Lifter Control Board .....                           | 1.820.773.83 3/67              |
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| Spooling Motor (Left or Right) .....                       | 1.863.190.00 3/81              |
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| -Power Connection Board .....                              | 1.863.705.00 3/3               |
| -Power Connection Board .....                              | 1.863.705.00 3/7               |

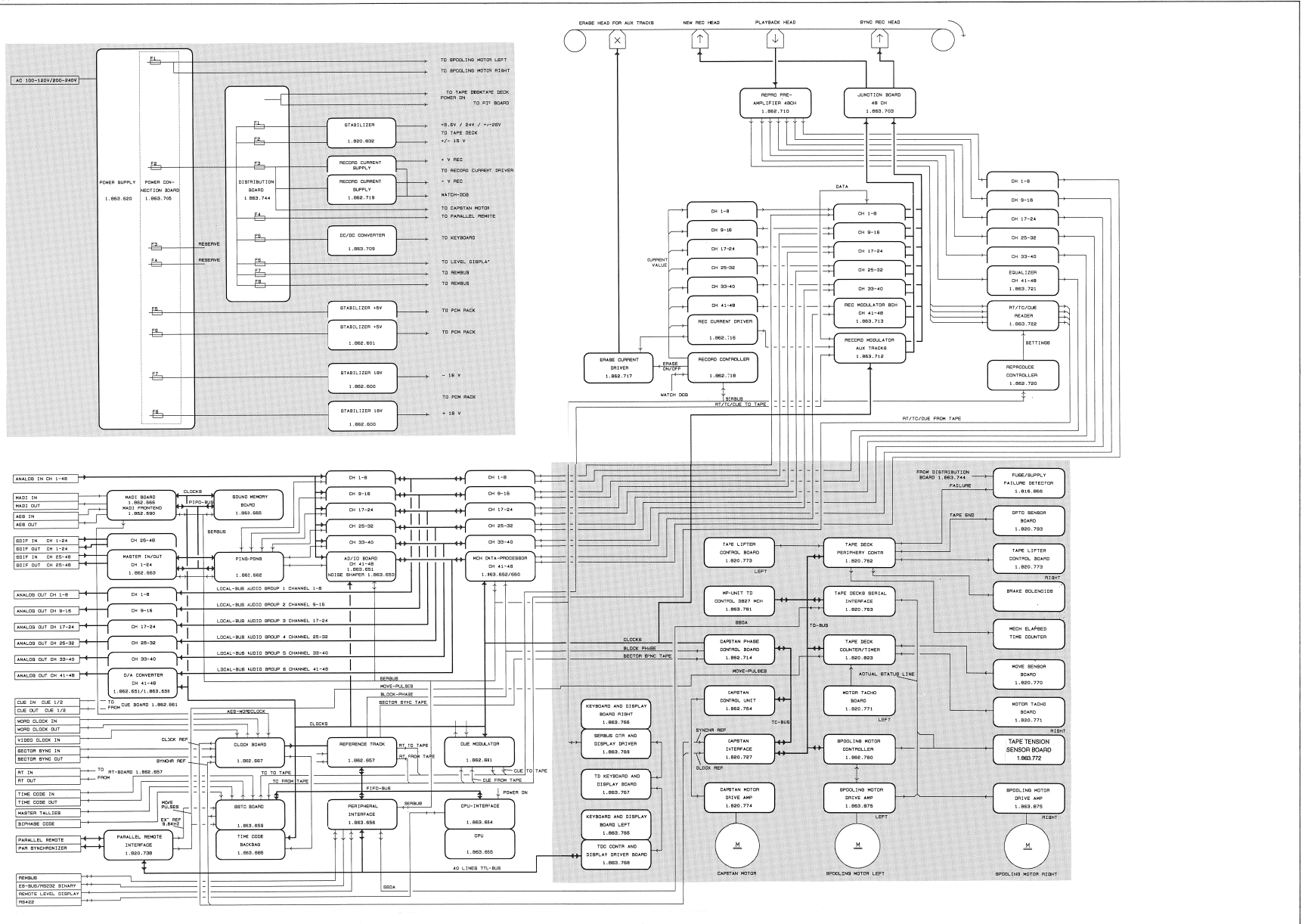
## STUDER D827 MCH

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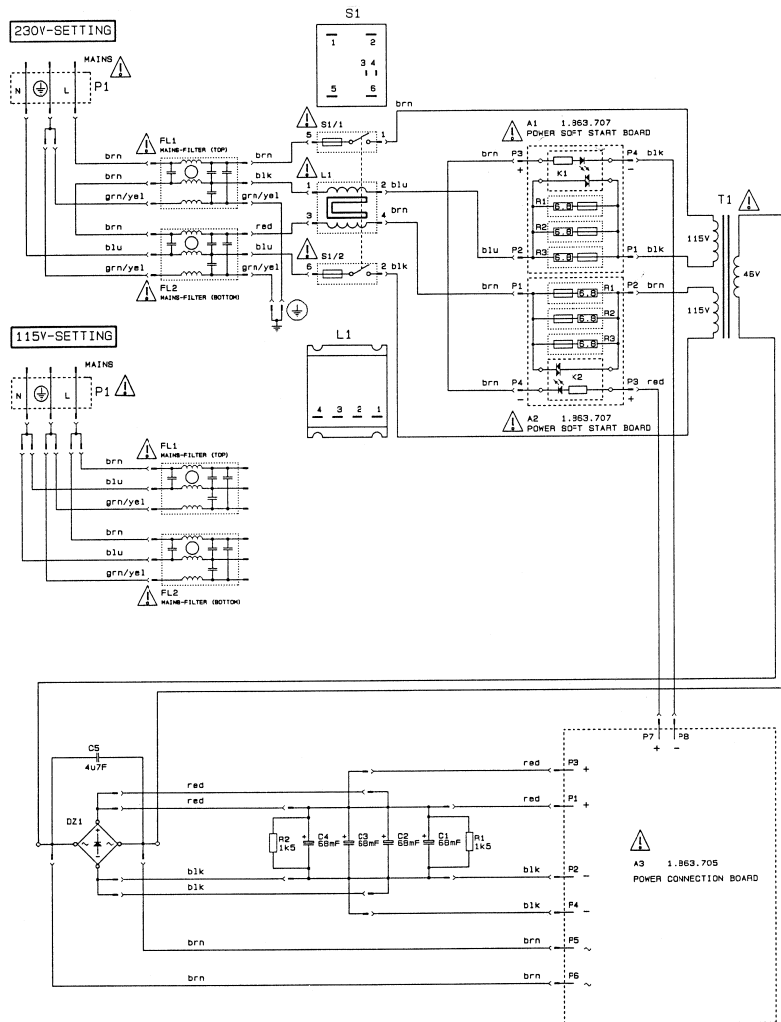
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| -Power Soft Start PCB .....                      | 1.863.707.00 ..... | 3/5   |
| DC / DC Converter Block Diagram .....            | 1.863.709 .....    | 3/27  |
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| -CUE Tacho Board .....                           | 1.863.770.00 ..... | 3/141 |
| -Tape Tension Sensor Board (Left or Right) ..... | 1.863.772.00 ..... | 3/87  |
| -Tape Deck Distribution .....                    | 1.863.773.00 ..... | 3/89  |
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# STUDER D827 MCH

## BLOCK DIAGRAM D827 MCH Control (Survey)



POWER SUPPLY 1.863.620.81  
 - Power Soft Start PCB 1.863.707.00  
 - Power Connection Board 1.863.705.00



| Ad                        | ..POS... | ..REF.No...  | DESCRIPTION                     | MANUFACTURER |
|---------------------------|----------|--------------|---------------------------------|--------------|
| A....1                    | 1        | 1.863.707.00 | Power soft start board          |              |
| A....2                    | 2        | 1.863.707.00 | Power soft start board          |              |
| A....3                    | 3        | 1.863.705.00 | Power connection board          |              |
| C....1                    | 1        | 59.07.0004   | 68'000µF 10% 63V . EL           |              |
| C....2                    | 2        | 59.07.0004   | 68'000µF 10% 63V . EL           |              |
| C....3                    | 3        | 59.07.0004   | 68'000µF 10% 63V . EL           |              |
| C....4                    | 4        | 59.07.0004   | 68'000µF 10% 63V . EL           |              |
| C....5                    | 5        | 59.02.2475   | 4,7µF 5kV 100W . MPC            |              |
| DZ....1                   | 1        | 70.01.0241   | 125W / 60A                      |              |
| FL....1                   | 1        | 89.01.4101   | 10A / 2kV Main Filter           |              |
| FL....2                   | 2        | 89.01.4101   | 10A / 2kV Main Filter           |              |
| K....1                    | 1        | 56.02.0201   | 220V / 25A Solid State          |              |
| K....2                    | 2        | 56.02.0201   | 220V / 25A Solid State          |              |
| L....1                    | 1        | 1.863.630.81 | 4MH 9,5AE / 20AP                |              |
| P....1                    | 1        | 54.42.0026   | 16A Mains socket                |              |
| R....1                    | 1        | 57.59.4152   | 1,5kΩ 5k / 7W                   |              |
| R....2                    | 2        | 57.59.4152   | 1,5kΩ 5k / 7W                   |              |
| S....1                    | 1        | 55.17.5003   | 7,5A Mains-switch               |              |
| T....1                    | 1        | 1.863.625.81 | 2kVA 115/230V Mains-transformer |              |
| 1.863.620.81 Power Supply |          |              |                                 |              |
| END                       |          |              |                                 |              |

|                     |       |    |              |
|---------------------|-------|----|--------------|
| 21/01/94 0P         | D 827 | SC | 1.863.620.81 |
| STUDER POWER SUPPLY |       | SC | 1.863.620.81 |

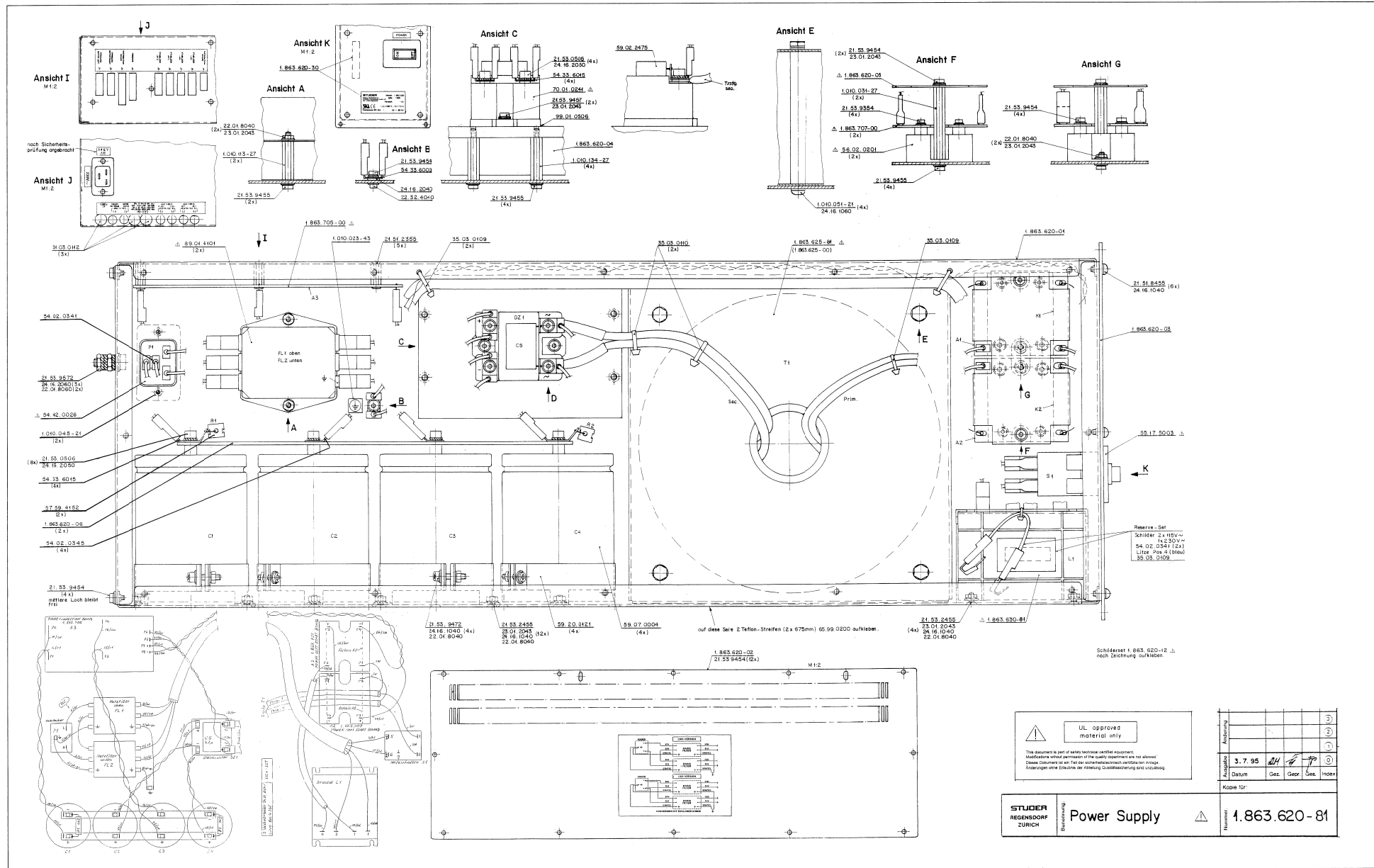


# STUDER D827 MCH

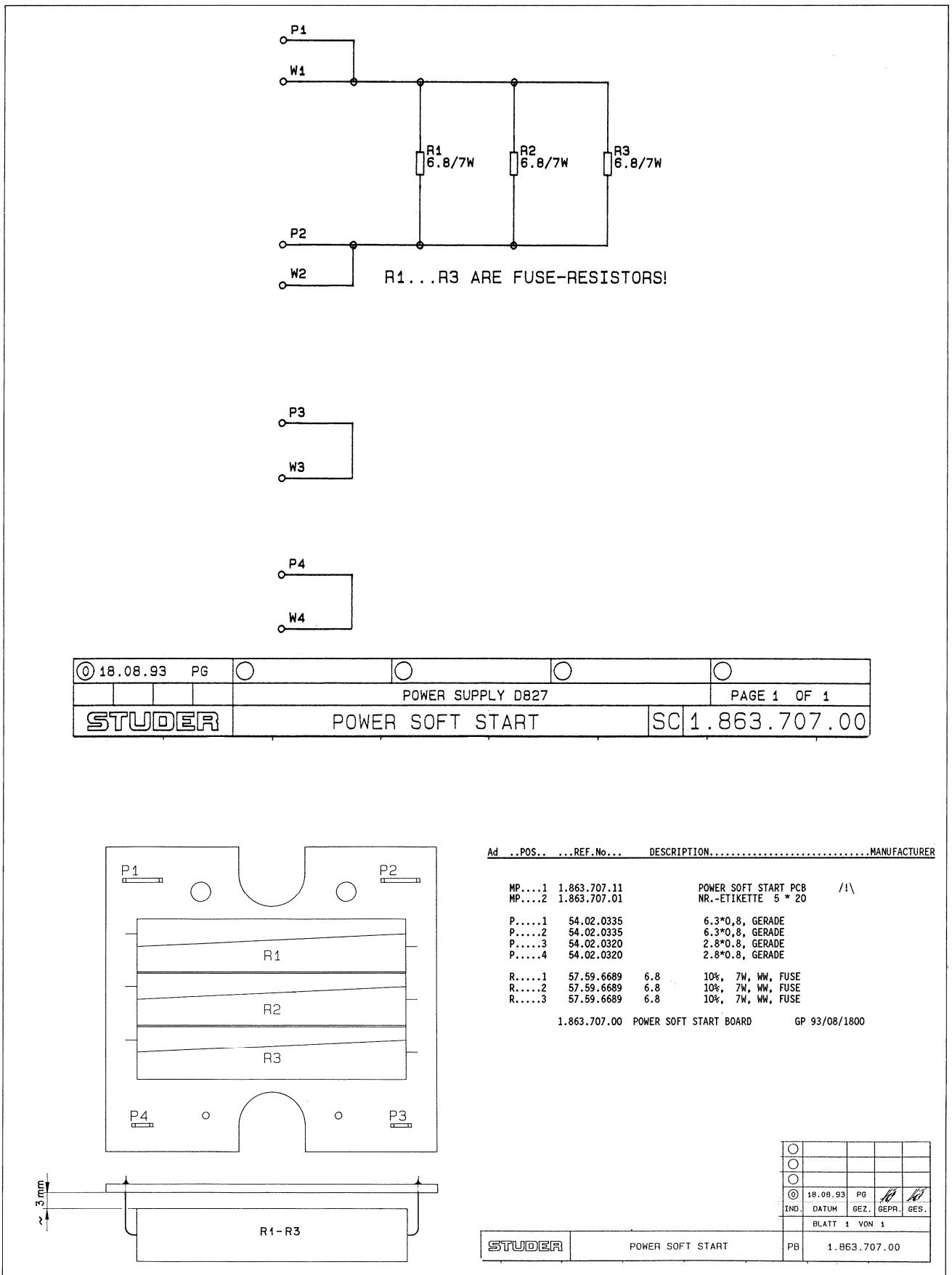
## POWER SUPPLY 1.863.620.81

- Power Soft Start PCB 1.863.707.00

- Power Connection Board 1.863.705.00



**POWER SUPPLY 1.863.620.81**  
 - Power Soft Start PCB 1.863.707.00



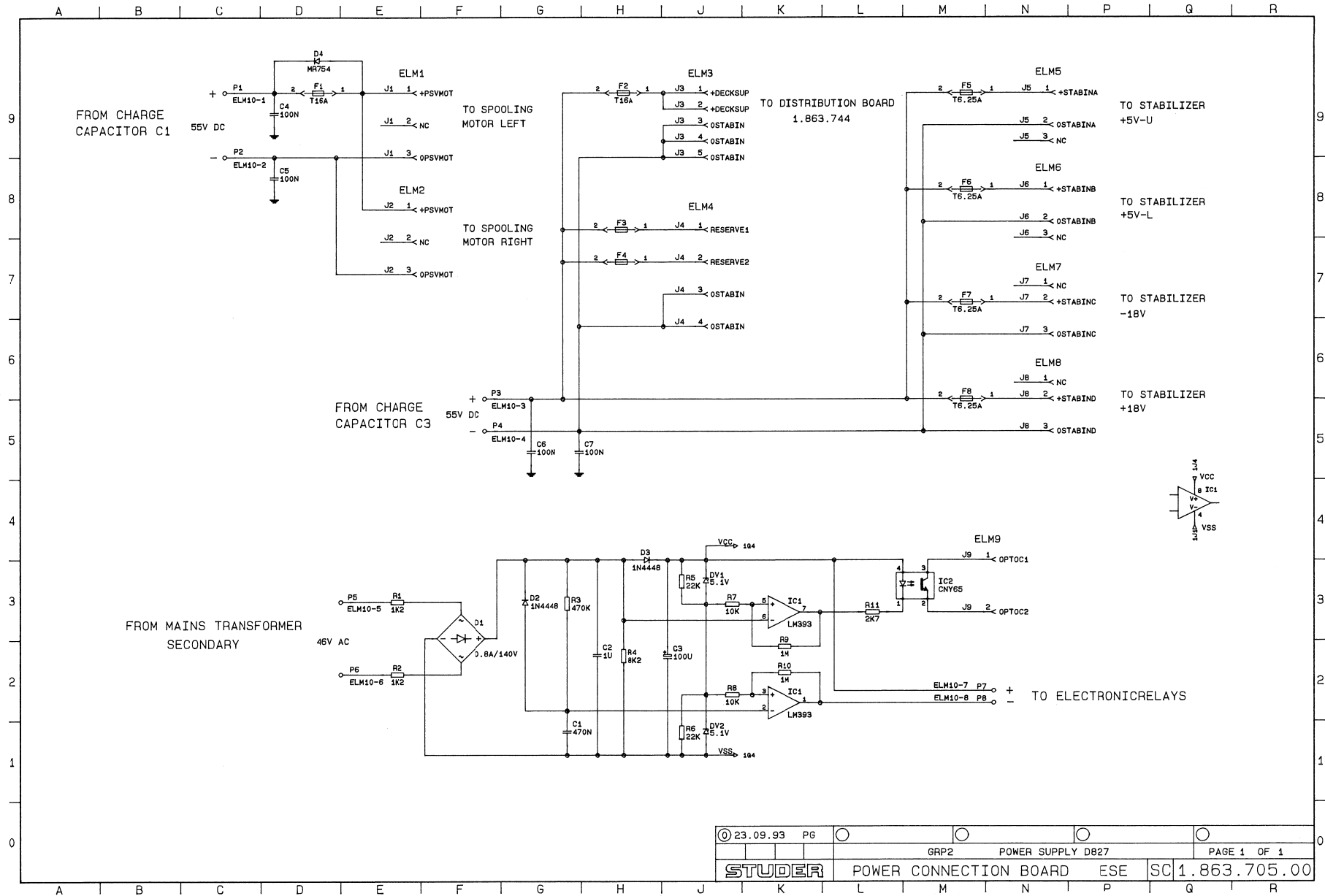
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| POWER SUPPLY D827 |  | PAGE 1 OF 1      |                 |
| <b>STUDER</b>     |  | POWER SOFT START | SC 1.863.707.00 |

| Ad                                  | POS.         | REF.No. | DESCRIPTION          | MANUFACTURER  |
|-------------------------------------|--------------|---------|----------------------|---------------|
| MP....1                             | 1.863.707.11 |         | POWER SOFT START PCB | /1\           |
| MP....2                             | 1.863.707.01 |         | NR.-ETIKETTE 5 * 20  |               |
| P.....1                             | 54.02.0335   |         | 6.3*0.8, GERADE      |               |
| P.....2                             | 54.02.0335   |         | 6.3*0.8, GERADE      |               |
| P.....3                             | 54.02.0320   |         | 2.8*0.8, GERADE      |               |
| P.....4                             | 54.02.0320   |         | 2.8*0.8, GERADE      |               |
| R.....1                             | 57.59.6689   | 6.8     | 10%, 7W, WW, FUSE    |               |
| R.....2                             | 57.59.6689   | 6.8     | 10%, 7W, WW, FUSE    |               |
| R.....3                             | 57.59.6689   | 6.8     | 10%, 7W, WW, FUSE    |               |
| 1.863.707.00 POWER SOFT START BOARD |              |         |                      | GP 93/08/1800 |

|               |       |                  |                 |
|---------------|-------|------------------|-----------------|
|               |       |                  |                 |
| © 18.08.93    | PG    |                  |                 |
| IND.          | DATUM | GEZ.             | GEPR. GES.      |
| BLATT 1 VON 1 |       |                  |                 |
| <b>STUDER</b> |       | POWER SOFT START | PB 1.863.707.00 |

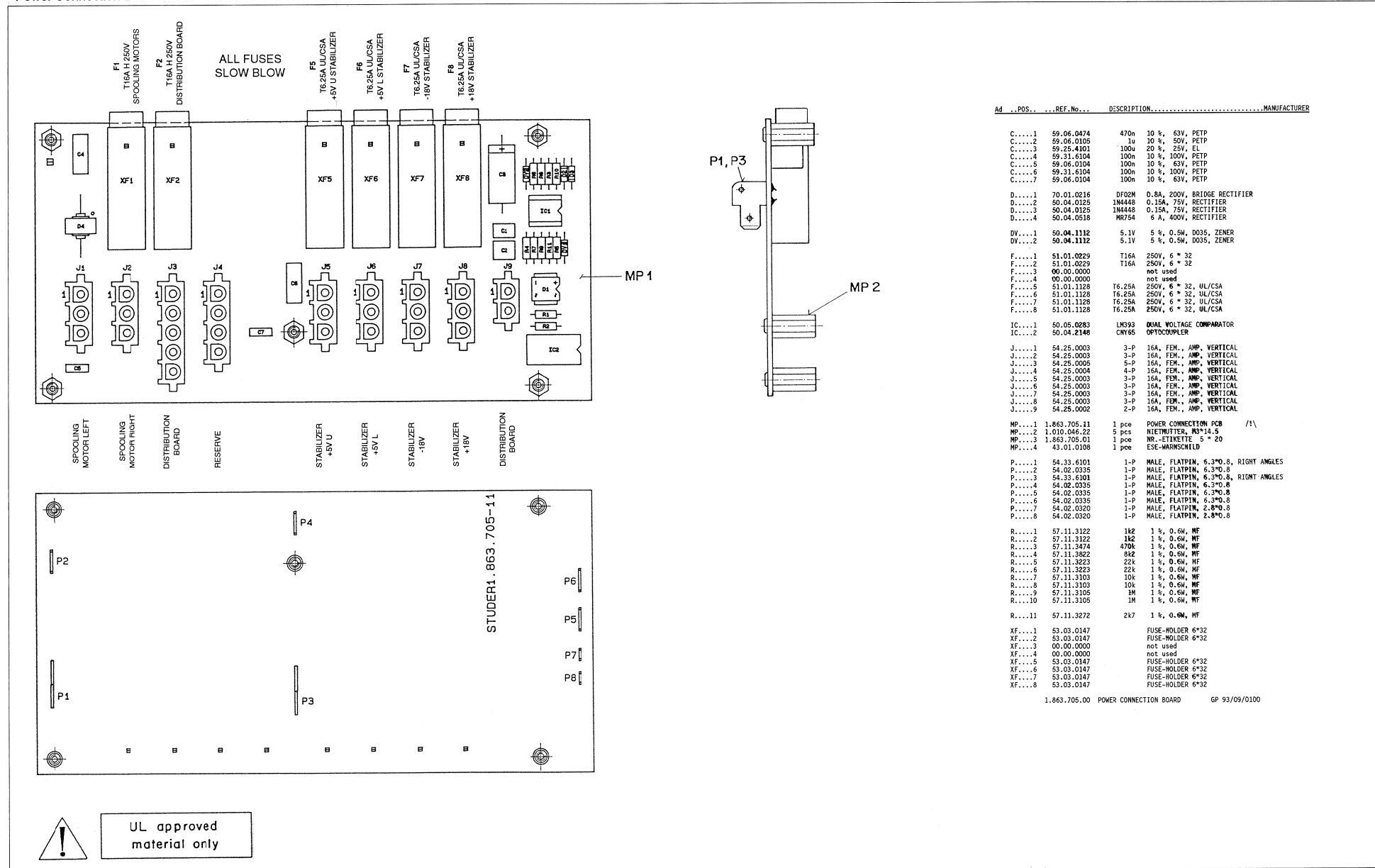
STUDER D827 MCH

POWER SUPPLY 1.863.620.81  
- Power Connection Board 1.863.705.00



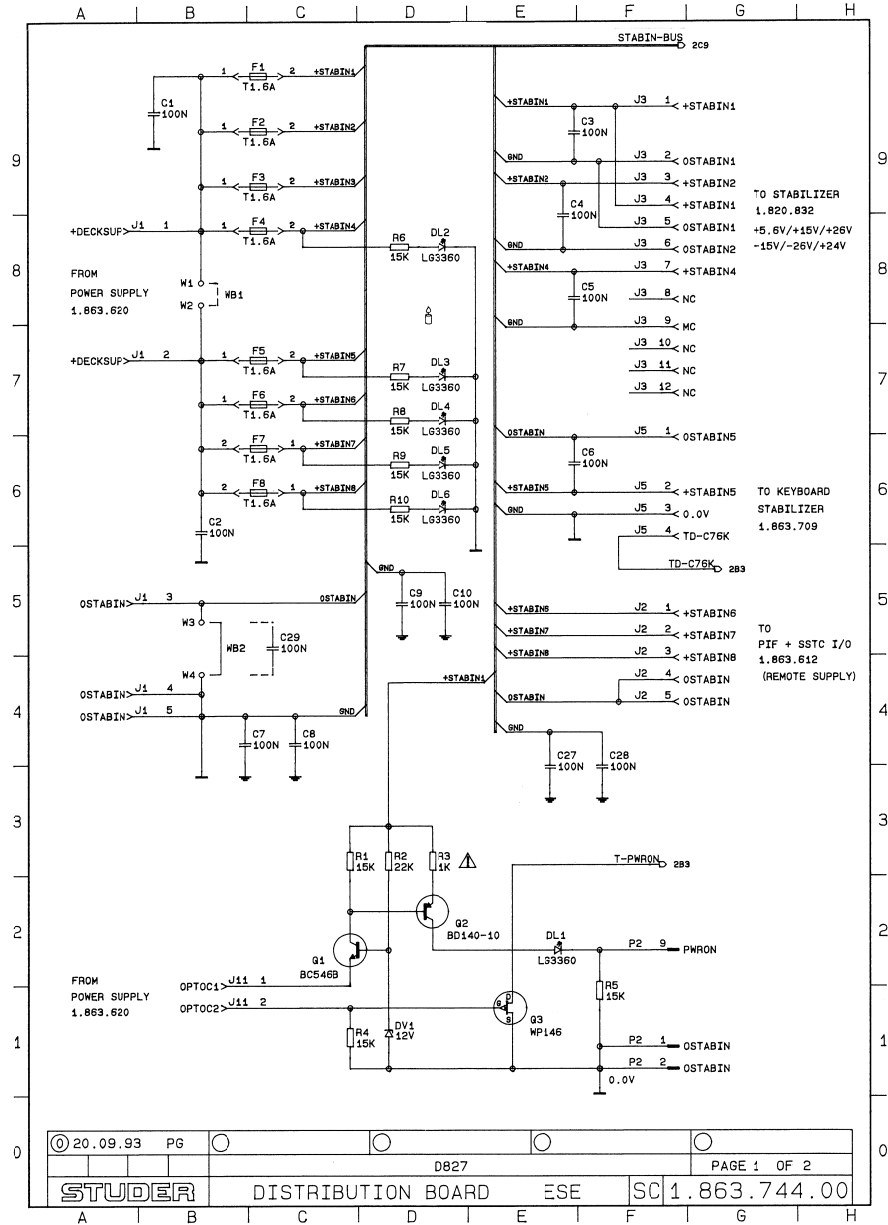
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| © 23.09.93 | PG | GRP2                       | POWER SUPPLY D827 | PAGE 1 OF 1     |
| STUDER     |    | POWER CONNECTION BOARD ESE |                   | SC 1.863.705.00 |

POWER SUPPLY 1.863.620.81  
- Power Connection Board 1.863.705.00

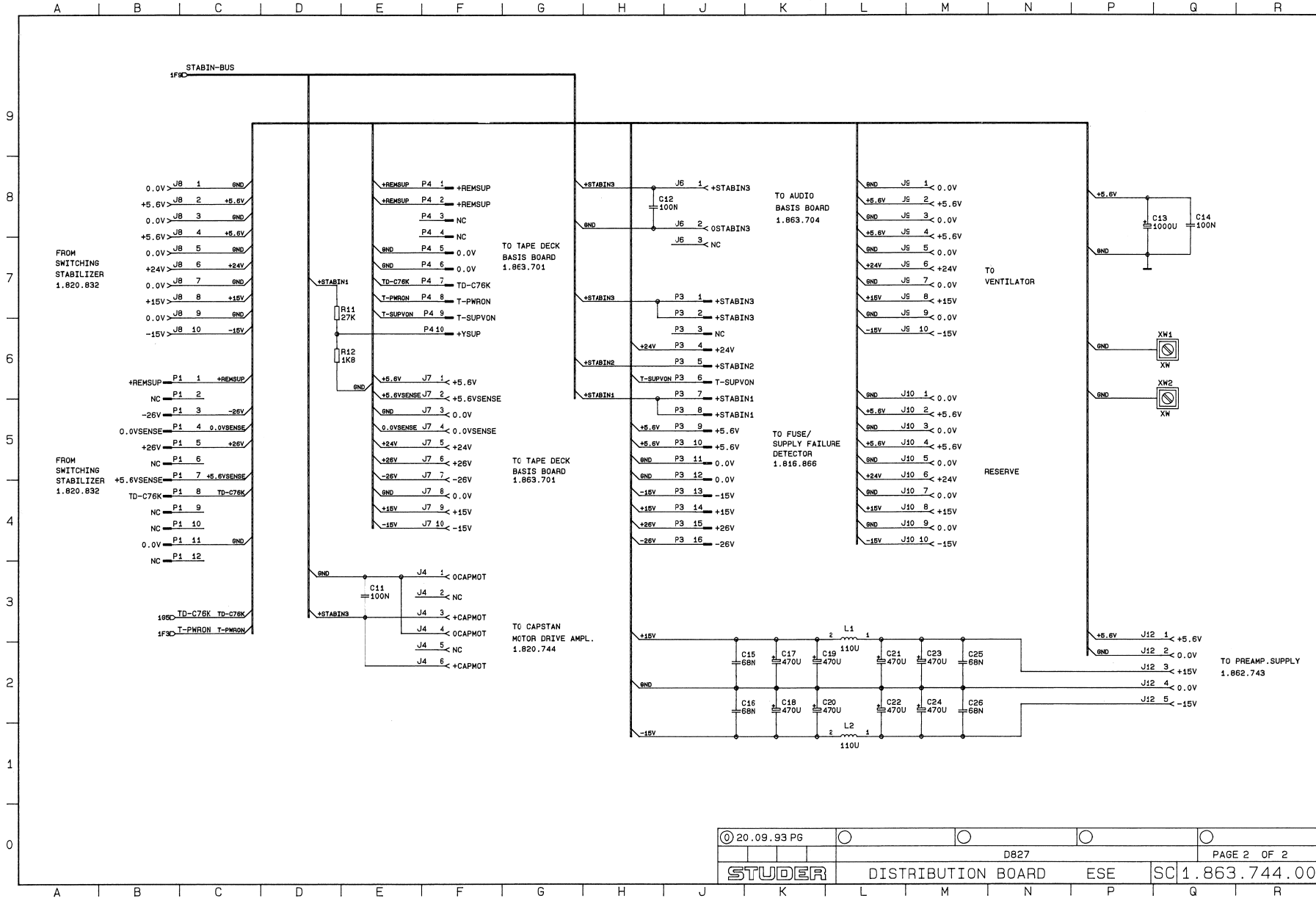




DISTRIBUTION BOARD 1.863.744.00



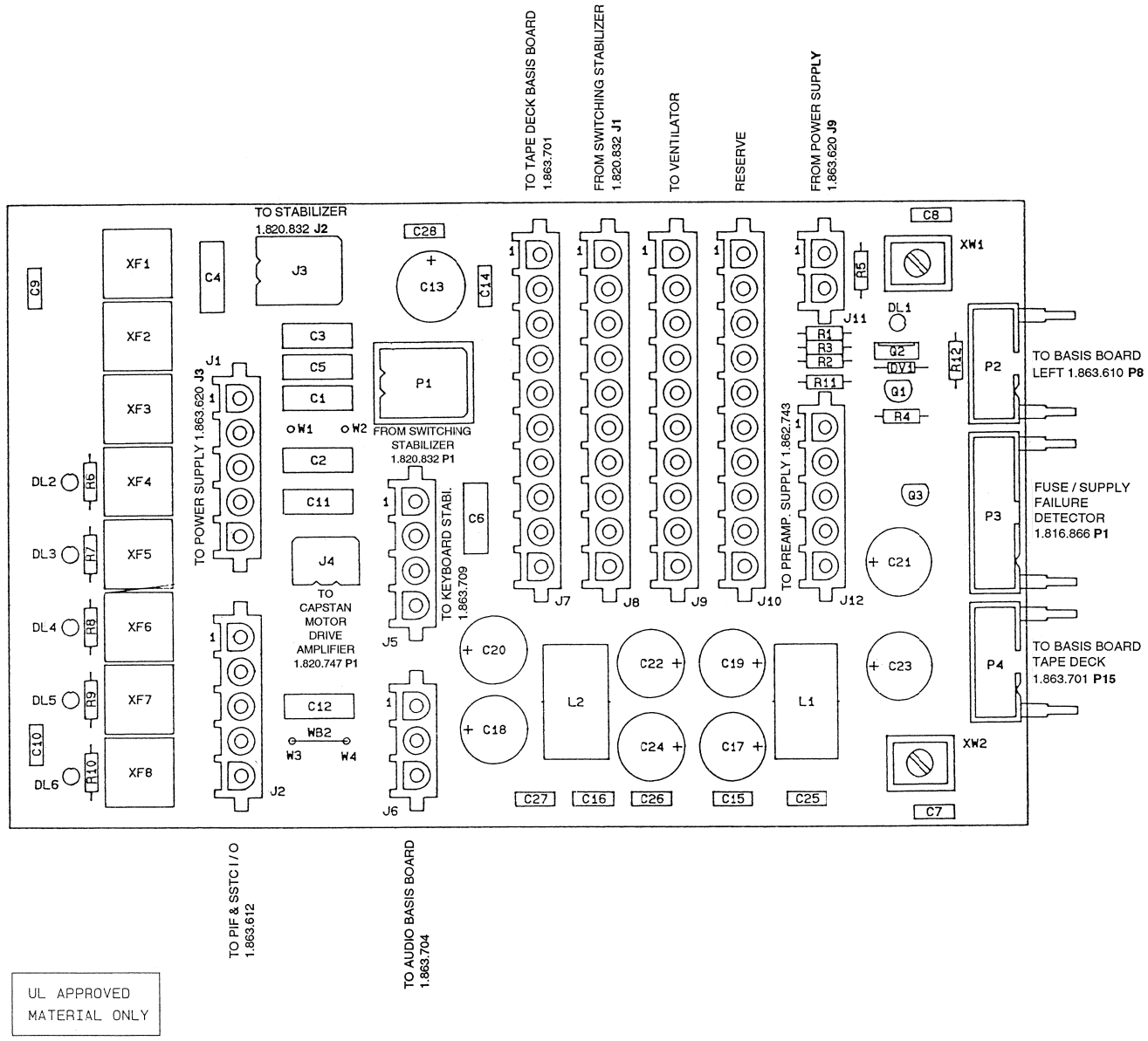
DISTRIBUTION BOARD 1.863.744.00



DISTRIBUTION BOARD 1.863.744.00



ALL FUSES T1.6A L 250V SLOW BLOW UL  
 (F1) (F2) (F3) (F4) (F5) (F6) (F7) (F8)  
 PARALLEL CAPSTAN +15V/-15V +5.6VA/24V  
 KEY-BOARD REMOTE REC-CURR  
 LEVEL  
 REMBUS REMBUS



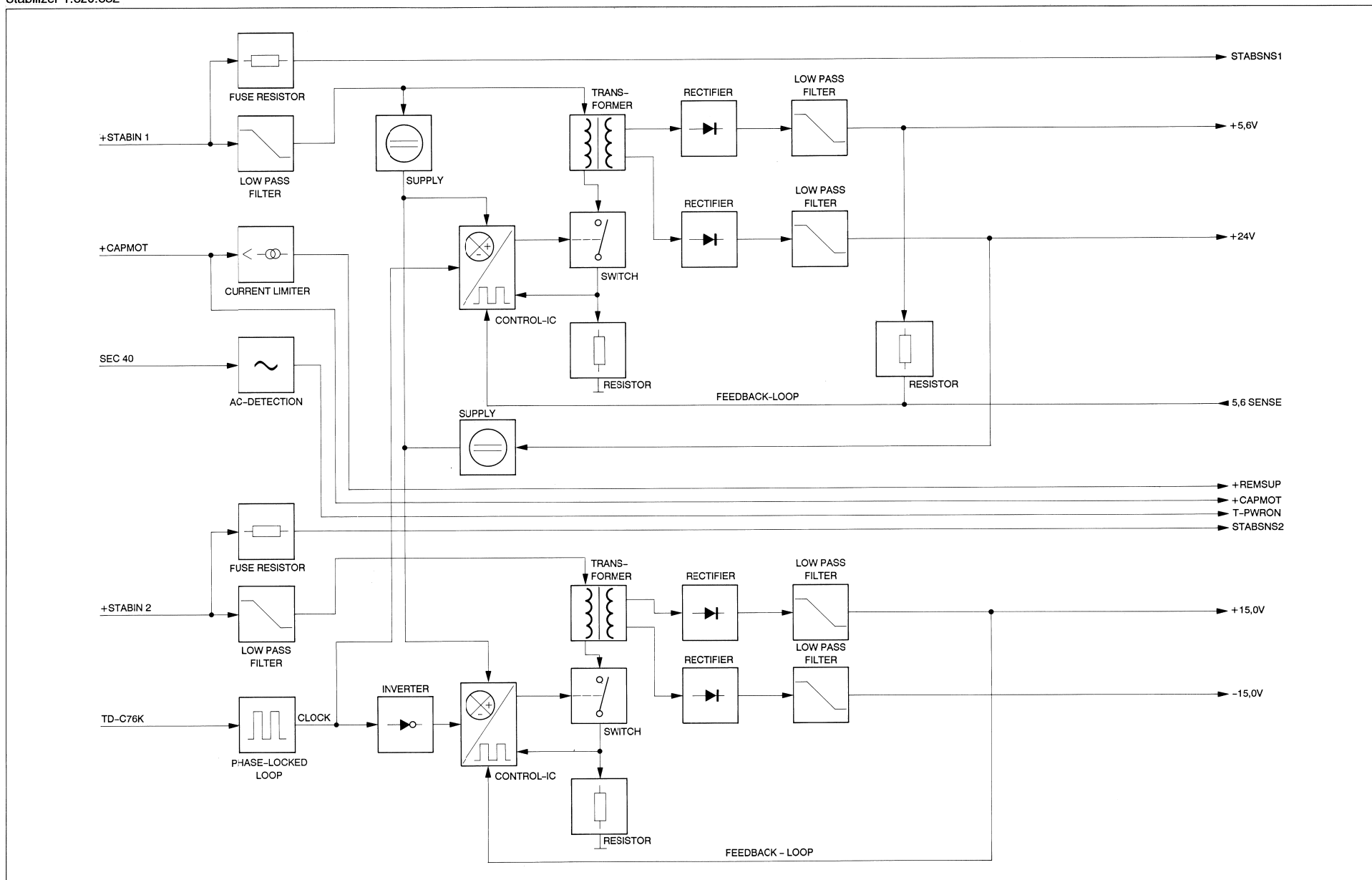
UL APPROVED MATERIAL ONLY

| Ad    | POS. | REF.No.      | DESCRIPTION                                  | MANUFACTURER |
|-------|------|--------------|--|--------------|
| C...  | 1    | 59.31.6104   | 100n 10K 100V PETP                           |              |
| C...  | 2    | 59.31.6104   | 100n 10K 100V PETP                           |              |
| C...  | 3    | 59.31.6104   | 100n 10K 100V PETP                           |              |
| C...  | 4    | 59.31.6104   | 100n 10K 100V PETP                           |              |
| C...  | 5    | 59.31.6104   | 100n 10K 100V PETP                           |              |
| C...  | 6    | 59.31.6104   | 100n 10K 100V PETP                           |              |
| C...  | 7    | 59.06.0104   | 100n 10K 63V PETP                            |              |
| C...  | 8    | 59.06.0104   | 100n 10K 63V PETP                            |              |
| C...  | 9    | 59.06.0104   | 100n 10K 63V PETP                            |              |
| C...  | 10   | 59.06.0104   | 100n 10K 63V PETP                            |              |
| C...  | 11   | 59.31.6104   | 100n 10K 100V PETP                           |              |
| C...  | 12   | 59.31.6104   | 100n 10K 100V PETP                           |              |
| C...  | 13   | 59.22.3102   | 1000V -20K 10V EL                            |              |
| C...  | 14   | 59.06.0104   | 100n 10K 63V PETP                            |              |
| C...  | 15   | 59.06.0685   | 68n 10K 63V PETP                             |              |
| C...  | 16   | 59.06.0685   | 68n 10K 63V PETP                             |              |
| C...  | 17   | 59.22.5471   | 470u -20K 25V EL                             |              |
| C...  | 18   | 59.22.5471   | 470u -20K 25V EL                             |              |
| C...  | 19   | 59.22.5471   | 470u -20K 25V EL                             |              |
| C...  | 20   | 59.22.5471   | 470u -20K 25V EL                             |              |
| C...  | 21   | 59.22.5471   | 470u -20K 25V EL                             |              |
| C...  | 22   | 59.22.5471   | 470u -20K 25V EL                             |              |
| C...  | 23   | 59.22.5471   | 470u -20K 25V EL                             |              |
| C...  | 24   | 59.22.5471   | 470u -20K 25V EL                             |              |
| C...  | 25   | 59.06.0683   | 68n 10K 63V PETP                             |              |
| C...  | 26   | 59.06.0683   | 68n 10K 63V PETP                             |              |
| C...  | 27   | 59.06.0104   | 100n 10K 63V PETP                            |              |
| C...  | 28   | 59.06.0104   | 100n 10K 63V PETP                            |              |
| DL... | 1    | 50.04.2131   | GRN DIF. 3MCD, LED 3.18MM                    |              |
| DL... | 2    | 50.04.2131   | GRN DIF. 3MCD, LED 3.18MM                    |              |
| DL... | 3    | 50.04.2131   | GRN DIF. 3MCD, LED 3.18MM                    |              |
| DL... | 4    | 50.04.2131   | GRN DIF. 3MCD, LED 3.18MM                    |              |
| DL... | 5    | 50.04.2131   | GRN DIF. 3MCD, LED 3.18MM                    |              |
| DL... | 6    | 50.04.2131   | GRN DIF. 3MCD, LED 3.18MM                    |              |
| DL... | 7    | 50.04.2131   | GRN DIF. 3MCD, LED 3.18MM                    |              |
| DL... | 8    | 50.04.2131   | GRN DIF. 3MCD, LED 3.18MM                    |              |
| DL... | 9    | 50.04.2131   | GRN DIF. 3MCD, LED 3.18MM                    |              |
| DL... | 10   | 50.04.2131   | GRN DIF. 3MCD, LED 3.18MM                    |              |
| DL... | 11   | 50.04.1117   | 12V 5K 0.5W ZENER                            |              |
| F...  | 1    | 51.01.0319   | T1.6A/L250V, 5 * 20                          |              |
| F...  | 2    | 51.01.0319   | T1.6A/L250V, 5 * 20                          |              |
| F...  | 3    | 51.01.0319   | T1.6A/L250V, 5 * 20                          |              |
| F...  | 4    | 51.01.0319   | T1.6A/L250V, 5 * 20                          |              |
| F...  | 5    | 51.01.0319   | T1.6A/L250V, 5 * 20                          |              |
| F...  | 6    | 51.01.0319   | T1.6A/L250V, 5 * 20                          |              |
| F...  | 7    | 51.01.0319   | T1.6A/L250V, 5 * 20                          |              |
| F...  | 8    | 51.01.0319   | T1.6A/L250V, 5 * 20                          |              |
| F...  | 9    | 51.01.0319   | T1.6A/L250V, 5 * 20                          |              |
| F...  | 10   | 51.01.0319   | T1.6A/L250V, 5 * 20                          |              |
| J...  | 1    | 54.25.0005   | 5-P 12A, FEM., AMP. VERTICAL                 |              |
| J...  | 2    | 54.25.0005   | 5-P 12A, FEM., AMP. VERTICAL                 |              |
| J...  | 3    | 54.02.0409   | 12-P CASE, FEM., MOLEX                       |              |
| J...  | 4    | 54.02.0417   | 6-P CASE, FEM., MOLEX                        |              |
| J...  | 5    | 54.25.0004   | 4-P 16A, FEM., AMP. VERTICAL                 |              |
| J...  | 6    | 54.25.0003   | 3-P 16A, FEM., AMP. VERTICAL                 |              |
| J...  | 7    | 54.25.0010   | 10-P 12A, FEM., AMP. VERTICAL                |              |
| J...  | 8    | 54.25.0010   | 10-P 12A, FEM., AMP. VERTICAL                |              |
| J...  | 9    | 54.25.0010   | 10-P 12A, FEM., AMP. VERTICAL                |              |
| J...  | 10   | 54.25.0010   | 10-P 12A, FEM., AMP. VERTICAL                |              |
| J...  | 11   | 54.25.0002   | 2-P 16A, FEM., AMP. VERTICAL                 |              |
| J...  | 12   | 54.25.0005   | 5-P 12A, FEM., AMP. VERTICAL                 |              |
| L...  | 1    | 62.03.0030   | 110u 3A TOROIDAL CHOKE                       |              |
| L...  | 2    | 62.03.0030   | 110u 3A TOROIDAL CHOKE                       |              |
| MP... | 1    | 1.863.744.11 | POWER DISTRIBUTION PCB /1\                   |              |
| MP... | 2    | 1.863.744.01 | 1 pce NR.-LABEL 5 * 20                       |              |
| MP... | 3    | 43.01.0108   | 1 pce ESE-WARNING-LABEL                      |              |
| MP... | 4    | 54.02.0407   | 18 pcs J1 1-POL-PRINT-CONTACT, MOLEX, J3, J4 |              |
| MP... | 5    | 54.02.0406   | 12 pcs P1 1-POL-PRINT-CONTACT, MOLEX, P1     |              |
| P...  | 1    | 54.02.0408   | 12-P CASE, MALE, MOLEX                       |              |
| P...  | 2    | 54.14.2101   | 10-P STR., MALE, RC-PLUG, LOCK               |              |
| P...  | 3    | 54.14.2102   | 16-P STR., MALE, RC-PLUG, LOCK               |              |
| P...  | 4    | 54.14.2101   | 10-P STR., MALE, RC-PLUG, LOCK               |              |
| Q...  | 1    | 50.03.0491   | BC546B NPN, TO92                             |              |
| Q...  | 2    | 50.03.0452   | BD140-10 PNP, TO126                          |              |
| Q...  | 3    | 50.03.0329   | HP146 P-FET, TO92                            |              |
| R...  | 1    | 57.11.3153   | 15K 1K 0.4W WF                               |              |
| R...  | 2    | 57.11.3223   | 22K 1K 0.4W WF                               |              |
| R...  | 3    | 57.19.0102   | 1K 5% 0.3W FUSE /1\                          |              |
| R...  | 4    | 57.11.3153   | 15K 1K 0.4W WF                               |              |
| R...  | 5    | 57.11.3153   | 15K 1K 0.4W WF                               |              |
| R...  | 6    | 57.11.3153   | 15K 1K 0.4W WF                               |              |
| R...  | 7    | 57.11.3153   | 15K 1K 0.4W WF                               |              |
| R...  | 8    | 57.11.3153   | 15K 1K 0.4W WF                               |              |
| R...  | 9    | 57.11.3153   | 15K 1K 0.4W WF                               |              |
| R...  | 10   | 57.11.3153   | 15K 1K 0.4W WF                               |              |
| R...  | 11   | 57.11.3273   | 27K 1K 0.4W WF                               |              |
| R...  | 12   | 57.11.3152   | 15K 1K 0.4W WF                               |              |
| WR... | 1    | 64.01.0106   | WIRE BRIDGE                                  |              |
| XF... | 1    | 53.03.0148   | FUSE HOLDER, 5 * 20, VERTICAL                |              |
| XF... | 2    | 53.03.0148   | FUSE HOLDER, 5 * 20, VERTICAL                |              |
| XF... | 3    | 53.03.0148   | FUSE HOLDER, 5 * 20, VERTICAL                |              |
| XF... | 4    | 53.03.0148   | FUSE HOLDER, 5 * 20, VERTICAL                |              |
| XF... | 5    | 53.03.0148   | FUSE HOLDER, 5 * 20, VERTICAL                |              |
| XF... | 6    | 53.03.0148   | FUSE HOLDER, 5 * 20, VERTICAL                |              |
| XF... | 7    | 53.03.0148   | FUSE HOLDER, 5 * 20, VERTICAL                |              |
| XF... | 8    | 53.03.0148   | FUSE HOLDER, 5 * 20, VERTICAL                |              |
| XP... | 1    | 53.05.0147   | 1POL. 25A, POWER TERM., ACTION-PIN           |              |
| XP... | 2    | 53.05.0147   | 1POL. 25A, POWER TERM., ACTION-PIN           |              |

END

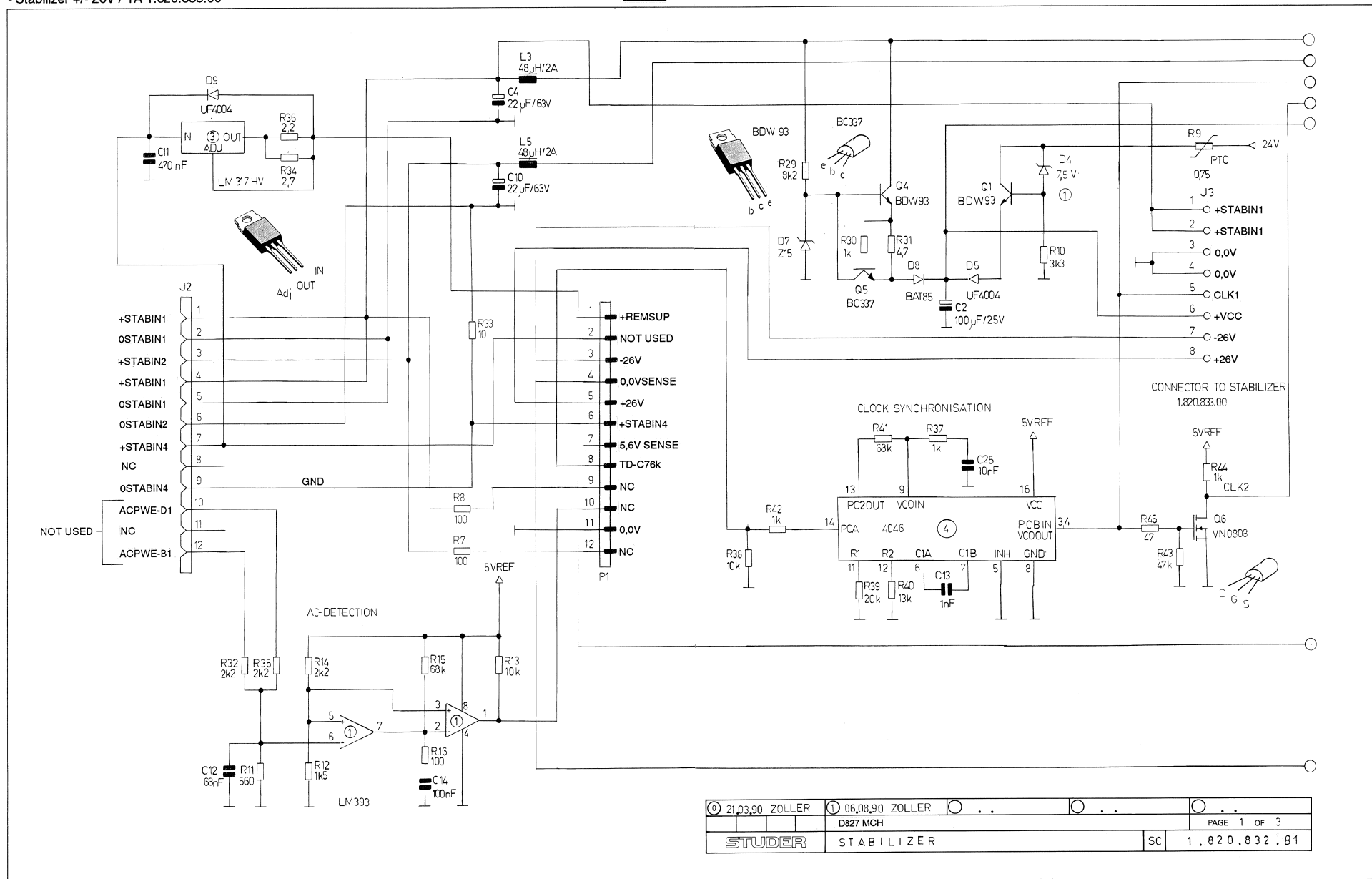
1.863.744.00 POWER DISTRIBUTION BOARD /1\ © 93/09/2000

**BLOCK DIAGRAM**  
Stabilizer 1.820.832



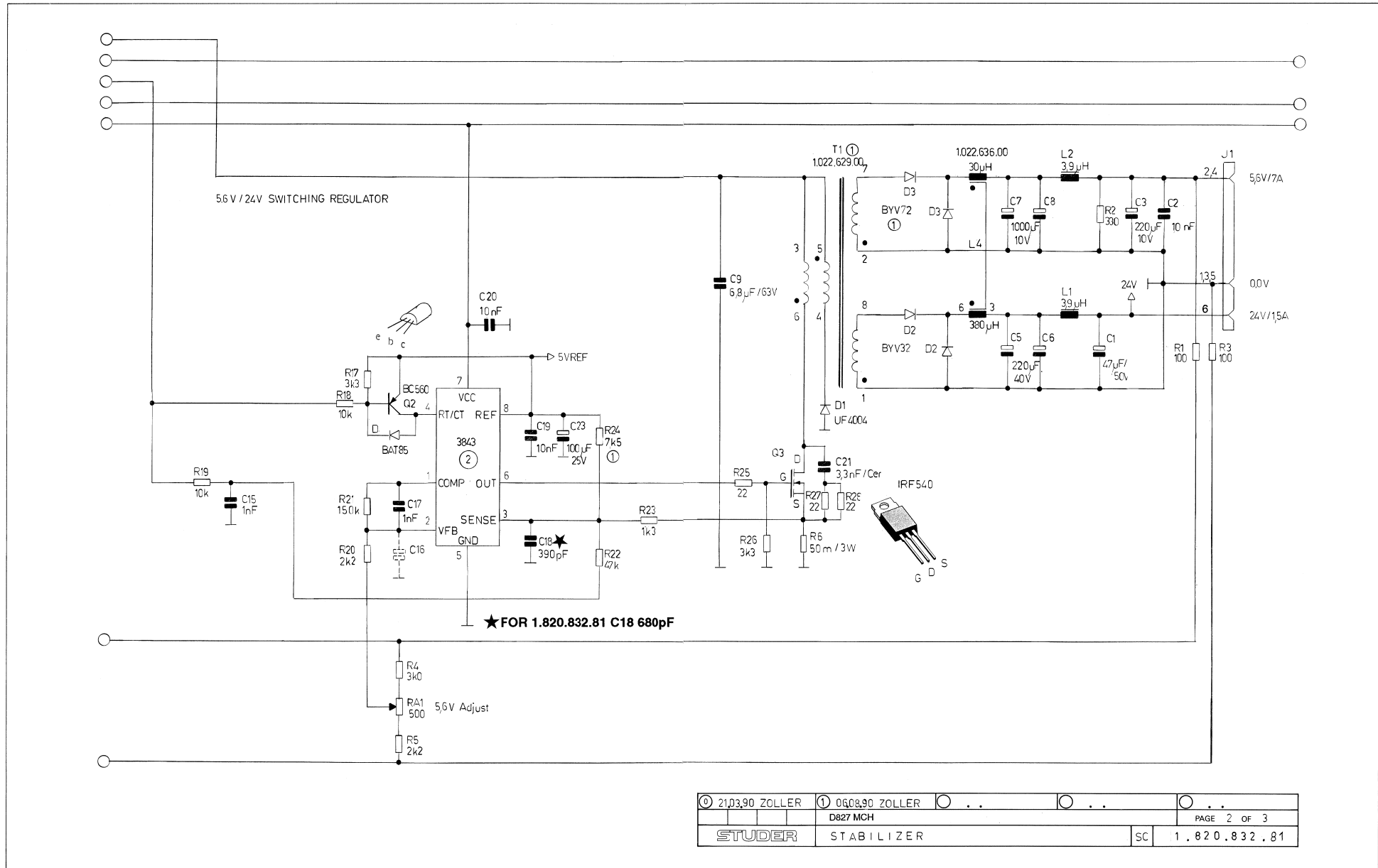


STABILIZER 1.820.832.00 / 1.820.832.81  
 - Stabilizer +/- 26V / 1A 1.820.833.00



|            |        |            |          |              |         |             |
|------------|--------|------------|----------|--------------|---------|-------------|
| ① 21.03.90 | ZOLLER | ① 06.08.90 | ZOLLER   | ○ . . .      | ○ . . . | ○ . . .     |
| STUDER     |        |            | D827 MCH |              |         | PAGE 1 OF 3 |
| STABILIZER |        |            | SC       | 1.820.832.81 |         |             |

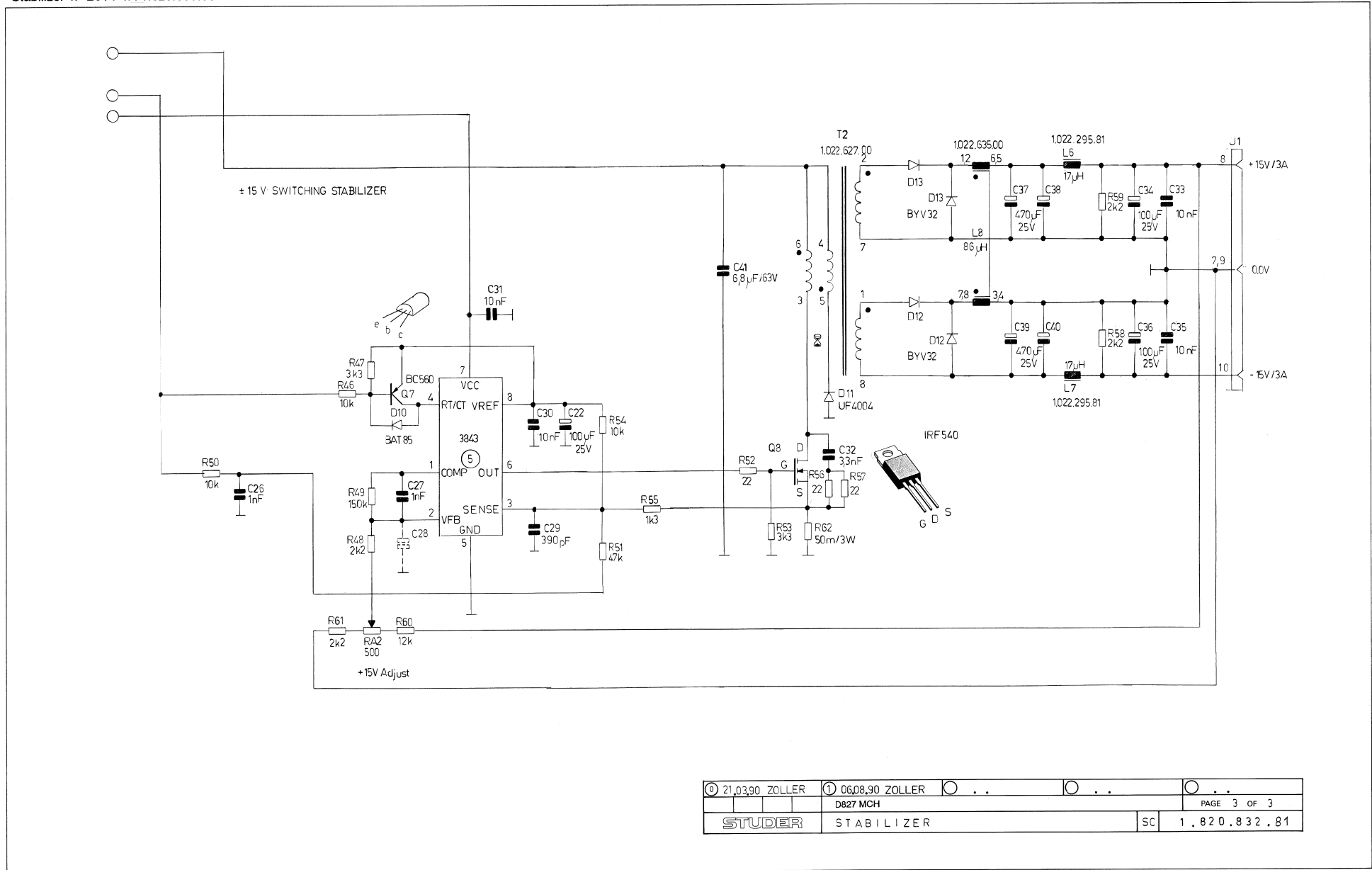
STABILIZER 1.820.832.00 / 1.820.832.81  
 · Stabilizer +/- 26V / 1A 1.820.833.00



|                 |                 |    |              |             |
|-----------------|-----------------|----|--------------|-------------|
| 21.03.90 ZOLLER | 06.08.90 ZOLLER |    |              |             |
| D827 MCH        |                 |    |              | PAGE 2 OF 3 |
| STUDER          | STABILIZER      | SC | 1.820.832.81 |             |



STABILIZER 1.820.832.00 / 1.820.832.81  
 - Stabilizer +/- 26V / 1A 1.820.833.00

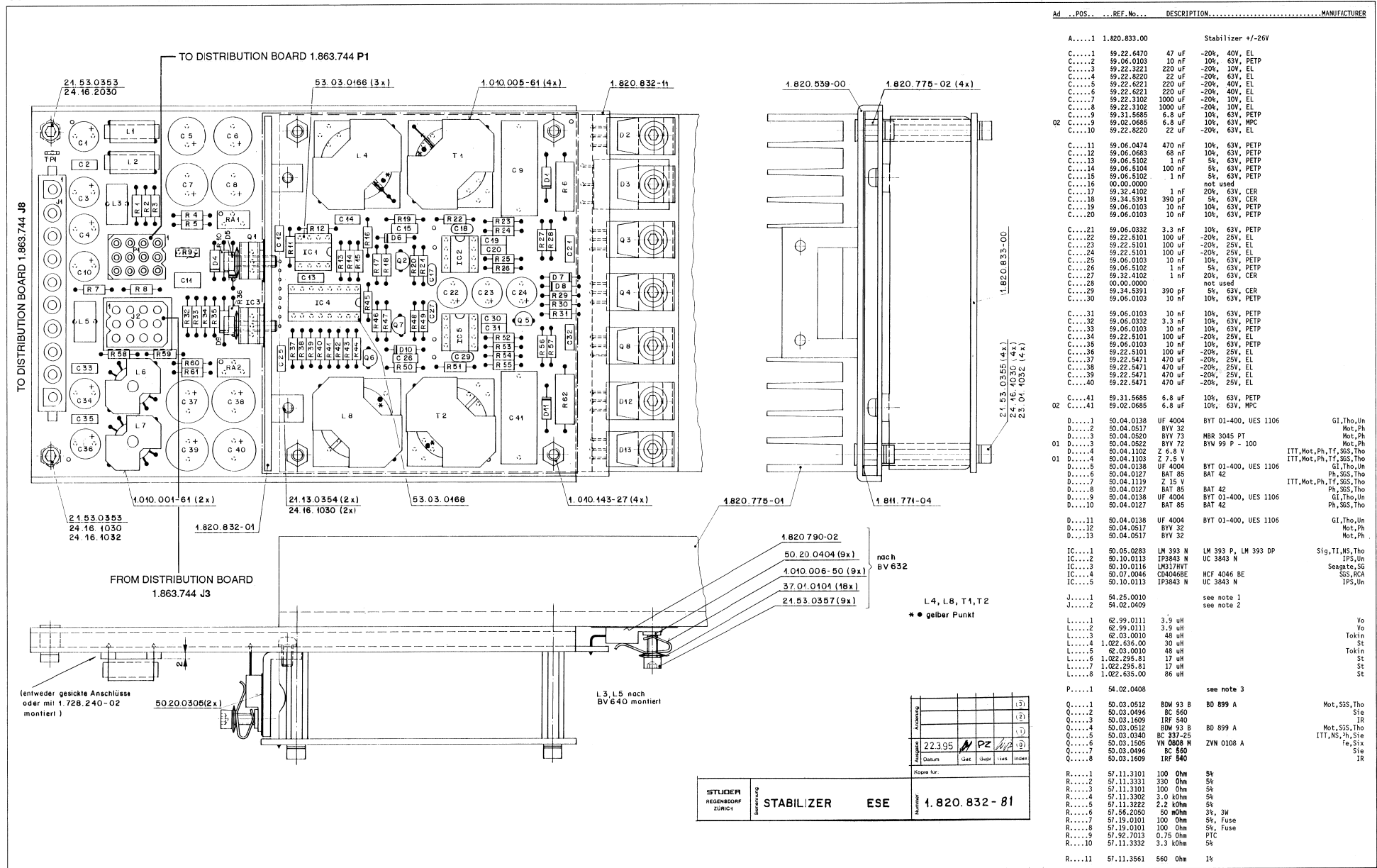


|                   |                   |             |         |                 |
|-------------------|-------------------|-------------|---------|-----------------|
| ① 21.03.90 ZOLLER | ① 06.08.90 ZOLLER | ○ . . .     | ○ . . . | ○ . . .         |
| D827 MCH          |                   | PAGE 3 OF 3 |         |                 |
| STUDER            |                   | STABILIZER  |         | SC 1.820.832.81 |

STABILIZER 1.820.832.00 / 1.820.832.81



STABILIZER 1.820.832.00



| Ad | POS | REF.No       | DESCRIPTION       | MANUFACTURER               |
|----|-----|--------------|-------------------|----------------------------|
| A  | 1   | 1.820.833.00 | Stabilizer +/-26V |                            |
| C  | 1   | 59.22.0470   | 47 uF             | -20%, 40V, EL              |
| C  | 2   | 59.06.0103   | 10 nF             | 10%, 63V, PETP             |
| C  | 3   | 59.22.3221   | 220 uF            | -20%, 10V, EL              |
| C  | 4   | 59.22.8220   | 22 uF             | -20%, 63V, EL              |
| C  | 5   | 59.22.6221   | 220 uF            | -20%, 40V, EL              |
| C  | 6   | 59.22.6221   | 220 uF            | -20%, 40V, EL              |
| C  | 7   | 59.22.3102   | 1000 uF           | -20%, 10V, EL              |
| C  | 8   | 59.22.3102   | 1000 uF           | -20%, 10V, EL              |
| C  | 9   | 59.31.5685   | 6.8 uF            | 10%, 63V, PETP             |
| C  | 9   | 59.02.0685   | 6.8 uF            | 10%, 63V, MPC              |
| C  | 10  | 59.22.8220   | 22 uF             | -20%, 63V, EL              |
| C  | 11  | 59.06.0474   | 470 nF            | 10%, 63V, PETP             |
| C  | 12  | 59.06.0683   | 88 nF             | 10%, 63V, PETP             |
| C  | 13  | 59.06.5102   | 1 nF              | 5%, 63V, PETP              |
| C  | 14  | 59.06.5104   | 100 nF            | 5%, 63V, PETP              |
| C  | 15  | 59.06.5102   | 1 nF              | 5%, 63V, PETP              |
| C  | 16  | 00.00.0000   |                   | not used                   |
| C  | 17  | 59.32.4102   | 1 nF              | 20%, 63V, CER              |
| C  | 18  | 59.34.5391   | 390 pF            | 5%, 63V, CER               |
| C  | 19  | 59.06.0103   | 10 nF             | 10%, 63V, PETP             |
| C  | 20  | 59.06.0103   | 10 nF             | 10%, 63V, PETP             |
| C  | 21  | 59.06.0332   | 3.3 nF            | 10%, 63V, PETP             |
| C  | 22  | 59.22.5101   | 100 uF            | -20%, 25V, EL              |
| C  | 23  | 59.22.5101   | 100 uF            | -20%, 25V, EL              |
| C  | 24  | 59.22.5101   | 100 uF            | -20%, 25V, EL              |
| C  | 25  | 59.06.0103   | 10 nF             | 10%, 63V, PETP             |
| C  | 26  | 59.06.5102   | 1 nF              | 5%, 63V, PETP              |
| C  | 27  | 59.32.4102   | 1 nF              | 20%, 63V, CER              |
| C  | 28  | 00.00.0000   |                   | not used                   |
| C  | 29  | 59.34.5391   | 390 pF            | 5%, 63V, CER               |
| C  | 30  | 59.06.0103   | 10 nF             | 10%, 63V, PETP             |
| C  | 31  | 59.06.0103   | 10 nF             | 10%, 63V, PETP             |
| C  | 32  | 59.06.0332   | 3.3 nF            | 10%, 63V, PETP             |
| C  | 33  | 59.06.0103   | 10 nF             | 10%, 63V, PETP             |
| C  | 34  | 59.22.5101   | 100 uF            | -20%, 25V, EL              |
| C  | 35  | 59.06.0103   | 10 nF             | 10%, 63V, PETP             |
| C  | 36  | 59.22.5101   | 100 uF            | -20%, 25V, EL              |
| C  | 37  | 59.22.5471   | 470 uF            | -20%, 25V, EL              |
| C  | 38  | 59.22.5471   | 470 uF            | -20%, 25V, EL              |
| C  | 39  | 59.22.5471   | 470 uF            | -20%, 25V, EL              |
| C  | 40  | 59.22.5471   | 470 uF            | -20%, 25V, EL              |
| C  | 41  | 59.31.5685   | 6.8 uF            | 10%, 63V, PETP             |
| C  | 41  | 59.02.0685   | 6.8 uF            | 10%, 63V, MPC              |
| D  | 1   | 50.04.0138   | UF 4004           | BYT 01-400, UES 1106       |
| D  | 2   | 50.04.0517   | BYV 32            |                            |
| D  | 3   | 50.04.0520   | BYV 73            | MGR 3045 PT                |
| D  | 4   | 50.04.0138   | UF 4004           | BYT 01-400, UES 1106       |
| D  | 4   | 50.04.1102   | Z 6.8 V           | ITT, Mot, Ph, TF, SSS, Tho |
| D  | 4   | 50.04.1103   | Z 7.5 V           | ITT, Mot, Ph, TF, SSS, Tho |
| D  | 5   | 50.04.0138   | UF 4004           | BYT 01-400, UES 1106       |
| D  | 5   | 50.04.0127   | BAT 85            | Ph, SSS, Tho               |
| D  | 7   | 50.04.1119   | Z 15 V            | ITT, Mot, Ph, TF, SSS, Tho |
| D  | 7   | 50.04.0127   | BAT 85            | Ph, SSS, Tho               |
| D  | 9   | 50.04.0138   | UF 4004           | BYT 01-400, UES 1106       |
| D  | 10  | 50.04.0127   | BAT 85            | Ph, SSS, Tho               |
| D  | 11  | 50.04.0138   | UF 4004           | BYT 01-400, UES 1106       |
| D  | 12  | 50.04.0517   | BYV 32            |                            |
| D  | 13  | 50.04.0517   | BYV 32            |                            |
| IC | 1   | 50.05.0283   | LM 393 N          | LM 393 P, LM 393 DP        |
| IC | 2   | 50.10.0113   | IP3843 N          | UC 3843 N                  |
| IC | 3   | 50.10.0116   | IP317HT           | UC 3843 N                  |
| IC | 4   | 50.07.0046   | CD4046BE          | HCF 4046 BE                |
| IC | 5   | 50.10.0113   | IP3843 N          | UC 3843 N                  |
| J  | 1   | 54.25.0010   |                   | see note 1                 |
| J  | 2   | 54.02.0409   |                   | see note 2                 |
| L  | 1   | 62.99.0111   | 3.9 uH            | Vo                         |
| L  | 2   | 62.99.0111   | 3.9 uH            | Vo                         |
| L  | 3   | 62.03.0010   | 48 uH             | TokIn                      |
| L  | 4   | 1.022.636.00 | 30 uH             | St                         |
| L  | 5   | 62.03.0010   | 48 uH             | TokIn                      |
| L  | 6   | 1.022.295.81 | 17 uH             | St                         |
| L  | 7   | 1.022.295.81 | 17 uH             | St                         |
| L  | 8   | 1.022.635.00 | 86 uH             | St                         |
| P  | 1   | 54.02.0408   |                   | see note 3                 |
| Q  | 1   | 50.03.0512   | BDW 93 B          | Mot, SSS, Tho              |
| Q  | 2   | 50.03.0496   | BC 560            | Stie                       |
| Q  | 3   | 50.03.1609   | IRF 540           | IR                         |
| Q  | 4   | 50.03.0512   | BDW 93 B          | Mot, SSS, Tho              |
| Q  | 5   | 50.03.0340   | BC 337-25         | Stie                       |
| Q  | 6   | 50.03.1505   | VN 0808 W         | ZVN 0108 A                 |
| Q  | 7   | 50.03.0496   | BC 560            | Stie                       |
| Q  | 8   | 50.03.1609   | IRF 540           | IR                         |
| R  | 1   | 57.11.3101   | 100 Ohm           | 5%                         |
| R  | 2   | 57.11.3331   | 330 Ohm           | 5%                         |
| R  | 3   | 57.11.3101   | 100 Ohm           | 5%                         |
| R  | 4   | 57.11.3302   | 3.0 Kohm          | 5%                         |
| R  | 5   | 57.11.3222   | 2.2 Kohm          | 5%                         |
| R  | 6   | 57.56.2050   | 50 mOhm           | 3%, 3W                     |
| R  | 7   | 57.19.0101   | 100 Ohm           | 5%, Fusse                  |
| R  | 8   | 57.19.0101   | 100 Ohm           | 5%, Fusse                  |
| R  | 9   | 57.92.7013   | 0.75 Ohm          | PTC                        |
| R  | 10  | 57.11.3332   | 3.3 Kohm          | 5%                         |
| R  | 11  | 57.11.3561   | 560 Ohm           | 1%                         |

|                                |           |            |     |              |
|--------------------------------|-----------|------------|-----|--------------|
| STUOER<br>REGENSDORF<br>ZÜRICH | Benennung | STABILIZER | ESE | 1.820.832-81 |
|--------------------------------|-----------|------------|-----|--------------|



STABILIZER 1.820.832.00

| Ad         | ..POS.. | ...REF.No... | DESCRIPTION.....        | MANUFACTURER |
|------------|---------|--------------|-------------------------|--------------|
| R....12    |         | 57.11.3152   | 1.5 kOhm 1%             |              |
| R....13    |         | 57.11.3103   | 10 kOhm 5%              |              |
| R....14    |         | 57.11.3222   | 2.2 kOhm 1%             |              |
| R....15    |         | 57.11.3683   | 68 kOhm 1%              |              |
| R....16    |         | 57.11.3101   | 100 Ohm 1%              |              |
| R....17    |         | 57.11.3332   | 3.3 kOhm 5%             |              |
| R....18    |         | 57.11.3103   | 10 kOhm 5%              |              |
| R....19    |         | 57.11.3103   | 10 kOhm 1%              |              |
| R....20    |         | 57.11.3222   | 2.2 kOhm 5%             |              |
| R....21    |         | 57.11.3154   | 150 kOhm 5%             |              |
| R....22    |         | 57.11.3473   | 47 kOhm 1%              |              |
| R....23    |         | 57.11.3132   | 1.3 kOhm 1%             |              |
| R....24    |         | 57.11.3103   | 10 kOhm 1%              |              |
| 01 R....24 |         | 57.11.3752   | 7.5 kOhm 1%             |              |
| R....25    |         | 57.11.3220   | 22 Ohm 5%               |              |
| R....26    |         | 57.11.3332   | 3.3 kOhm 5%             |              |
| R....27    |         | 57.11.3220   | 22 Ohm 5%               |              |
| R....28    |         | 57.11.3220   | 22 Ohm 5%               |              |
| R....29    |         | 57.11.3822   | 8.2 kOhm 5%             |              |
| R....30    |         | 57.11.3102   | 1 kOhm 5%               |              |
| R....31    |         | 57.11.3479   | 4.7 Ohm 5%              |              |
| R....32    |         | 57.11.3222   | 2.2 kOhm 1%             |              |
| R....33    |         | 57.11.3100   | 10 Ohm 5%               |              |
| R....34    |         | 57.11.3279   | 2.7 Ohm 5%              |              |
| R....35    |         | 57.11.3222   | 2.2 kOhm 1%             |              |
| R....36    |         | 57.11.3229   | 2.2 Ohm 5%              |              |
| R....37    |         | 57.11.3102   | 1 kOhm 1%               |              |
| R....38    |         | 57.11.3103   | 10 kOhm 5%              |              |
| R....39    |         | 57.11.3203   | 20 kOhm 1%              |              |
| R....40    |         | 57.11.3133   | 13 kOhm 1%              |              |
| R....41    |         | 57.11.3683   | 68 kOhm 5%              |              |
| R....42    |         | 57.11.3102   | 1 kOhm 5%               |              |
| R....43    |         | 57.11.3473   | 47 kOhm 5%              |              |
| R....44    |         | 57.11.3102   | 1 kOhm 5%               |              |
| R....45    |         | 57.11.3470   | 47 Ohm 5%               |              |
| R....46    |         | 57.11.3103   | 10 kOhm 5%              |              |
| R....47    |         | 57.11.3332   | 3.3 kOhm 5%             |              |
| R....48    |         | 57.11.3222   | 2.2 kOhm 5%             |              |
| R....49    |         | 57.11.3154   | 150 kOhm 5%             |              |
| R....50    |         | 57.11.3103   | 10 kOhm 1%              |              |
| R....51    |         | 57.11.3473   | 47 kOhm 1%              |              |
| R....52    |         | 57.11.3220   | 22 Ohm 5%               |              |
| R....53    |         | 57.11.3332   | 3.3 kOhm 5%             |              |
| R....54    |         | 57.11.3103   | 10 kOhm 1%              |              |
| R....55    |         | 57.11.3132   | 1.3 kOhm 1%             |              |
| R....56    |         | 57.11.3220   | 22 Ohm 5%               |              |
| R....57    |         | 57.11.3220   | 22 Ohm 5%               |              |
| R....58    |         | 57.11.3222   | 2.2 kOhm 5%             |              |
| R....59    |         | 57.11.3222   | 2.2 kOhm 5%             |              |
| R....60    |         | 57.11.3123   | 12 kOhm 5%              |              |
| R....61    |         | 57.11.3222   | 2.2 kOhm 5%             |              |
| R....62    |         | 57.56.2050   | 50 mOhm 3%, 3W          |              |
| RA....1    |         | 58.05.1501   | 500 Ohm 10%, multi turn |              |
| RA....2    |         | 58.05.1501   | 500 Ohm 10%, multi turn |              |
| T....1     |         | 1.022.629.00 | Switching Transformer   | St           |
| T....2     |         | 1.022.627.00 | Switching Transformer   | St           |
| TP....1    |         | 54.02.0320   | Test Point              |              |

(01) 06.08.90 System improvement.  
 (02) 03.10.91 Improved high frequency behaviour.

Note 1 - Connector:  
 10 contacts, AMP Nr. 826 852-3

Note 2 - Connector:  
 case, Studer Nr. 54.02.0409  
 Molex Nr. 03-06-1121  
 12 contacts, Studer Nr. 54.02.0407  
 Molex Nr. 02-06-7103

Note 3 - Connector:  
 case, Studer Nr. 54.02.0408  
 Molex Nr. 03-06-2121  
 12 contacts, Studer Nr. 54.02.0406  
 Molex Nr. 02-06-8103

Ce=Ceramic, El=Electrolytic, MPETP=Metallized Polyesterfilm,  
 PETP=Polyesterfilm, MPC=Metallized Polycarbonate film.

MANUFACTURER: Fe=Ferranti, GI=General Instruments, IPS=Integrated Power  
 Semiconductor, ITT=Intermetall, IR=International Rectifier,  
 Mot=Motorola, NS=National Semiconductors, Ph=Philips,  
 RCA=RCA Corporation, Ses=Sescosem, SGS=SGS/Ates, SG=Silicon  
 General, Sie=Siemens, Sig=Signetics, Six=Siliconix,  
 St=Studer, Tf=Telefunken, Tho=Thomson, Ti=Texas Instruments,  
 Un=Unitrode, Vo=Vogt & Co.

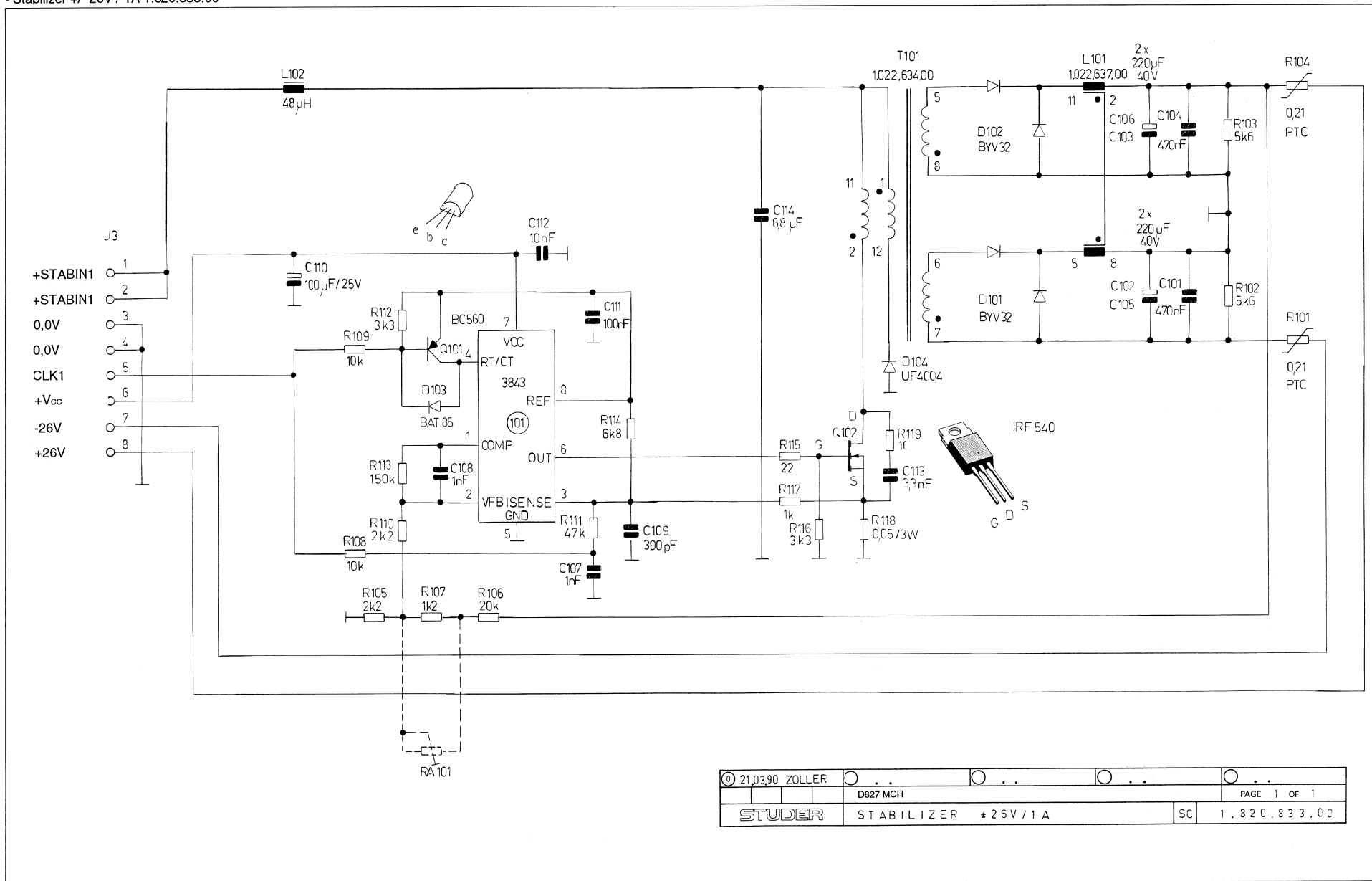
- 1.820.832.00 STABILIZER PZ 90/03/2100
- 1.820.832.00 STABILIZER PZ 90/08/0601
- 1.820.832.00 STABILIZER PZ 91/10/0302



STABILIZER 1.820.832.81

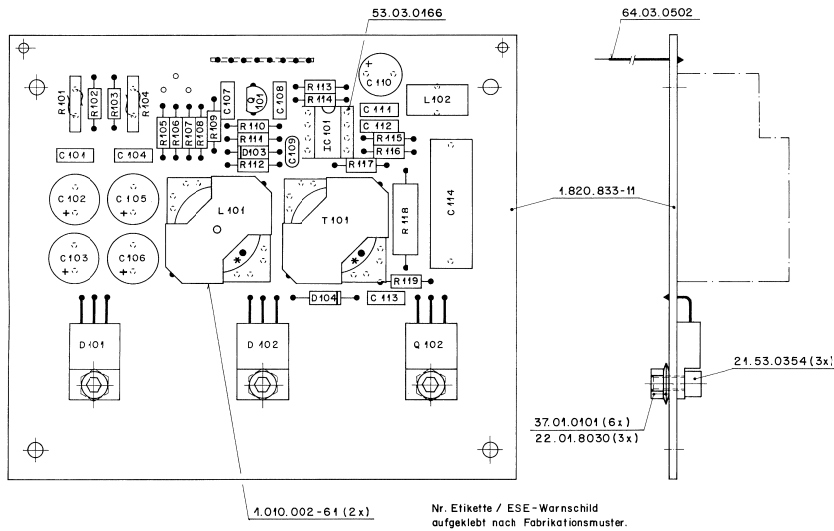
| Ad       | ..POS..      | ..REF.No..   | DESCRIPTION           | MANUFACTURER  | Ad      | ..POS.. | ..REF.No..   | DESCRIPTION | MANUFACTURER  |
|----------|--------------|--------------|-----------------------|---------------|---------|---------|--------------|-------------|---|
| A.....1  |              | 1.820.833.00 | Stabilizer +/-26V     |               | R....14 |         | 57.11.3222   | 2.2 kOhm    | 1%  |
| C.....1  | 59.22.6470   | 47 uF        | -20%, 40V, EL         |               | R....15 |         | 57.11.3683   | 68 kOhm     | 1%  |
| C.....2  | 59.06.0103   | 10 nF        | 10%, 63V, PETP        |               | R....16 |         | 57.11.3101   | 100 Ohm     | 1%  |
| C.....3  | 59.22.3221   | 220 uF       | -20%, 10V, EL         |               | R....17 |         | 57.11.3332   | 3.3 kOhm    | 5%  |
| C.....4  | 59.22.8220   | 22 uF        | -20%, 63V, EL         |               | R....18 |         | 57.11.3103   | 10 kOhm     | 5%  |
| C.....5  | 59.22.6221   | 220 uF       | -20%, 40V, EL         |               | R....19 |         | 57.11.3103   | 10 kOhm     | 1%  |
| C.....6  | 59.22.6221   | 220 uF       | -20%, 40V, EL         |               | R....20 |         | 57.11.3222   | 2.2 kOhm    | 5%  |
| C.....7  | 59.22.3102   | 1000 uF      | -20%, 10V, EL         |               | R....21 |         | 57.11.3154   | 150 kOhm    | 5%  |
| C.....8  | 59.22.3102   | 1000 uF      | -20%, 10V, EL         |               | R....22 |         | 57.11.3473   | 47 kOhm     | 1%  |
| C.....9  | 59.02.0685   | 6.8 uF       | 10%, 63V, MPC, /!\    |               | R....23 |         | 57.11.3132   | 1.3 kOhm    | 1%  |
| C.....10 | 59.22.8220   | 22 uF        | -20%, 63V, EL         |               | R....24 |         | 57.11.3752   | 7.5 kOhm    | 1%  |
| C.....11 | 59.06.0474   | 470 nF       | 10%, 63V, PETP        |               | R....25 |         | 57.11.3220   | 22 Ohm      | 5%  |
| C.....12 | 59.06.0683   | 68 nF        | 10%, 63V, PETP        |               | R....26 |         | 57.11.3332   | 3.3 kOhm    | 5%  |
| C.....13 | 59.06.5102   | 1 nF         | 5%, 63V, PETP         |               | R....27 |         | 57.11.3220   | 22 Ohm      | 5%  |
| C.....14 | 59.06.5104   | 100 nF       | 5%, 63V, PETP         |               | R....28 |         | 57.11.3220   | 22 Ohm      | 5%  |
| C.....15 | 59.06.5102   | 1 nF         | 5%, 63V, PETP         |               | R....29 |         | 57.11.3822   | 8.2 kOhm    | 5%  |
| C.....16 | 00.00.0000   |              | not used              |               | R....30 |         | 57.11.3102   | 1 kOhm      | 5%  |
| C.....17 | 59.32.4102   | 1 nF         | 20%, 63V, CER         |               | R....31 |         | 57.11.3479   | 4.7 Ohm     | 5%  |
| C.....18 | 59.32.1681   | 680 pF       | 10%, 400V, CER        |               | R....32 |         | 57.11.3222   | 2.2 kOhm    | 1%  |
| C.....19 | 59.06.0103   | 10 nF        | 10%, 63V, PETP        |               | R....33 |         | 57.11.3100   | 10 Ohm      | 5%  |
| C.....20 | 59.06.0103   | 10 nF        | 10%, 63V, PETP        |               | R....34 |         | 57.11.3279   | 2.7 Ohm     | 5%  |
| C.....21 | 59.06.0332   | 3.3 nF       | 10%, 63V, PETP        |               | R....35 |         | 57.11.3222   | 2.2 kOhm    | 1%  |
| C.....22 | 59.22.5101   | 100 uF       | -20%, 25V, EL         |               | R....36 |         | 57.11.3229   | 2.2 Ohm     | 5%  |
| C.....23 | 59.22.5101   | 100 uF       | -20%, 25V, EL         |               | R....37 |         | 57.11.3102   | 1 kOhm      | 1%  |
| C.....24 | 59.22.5101   | 100 uF       | -20%, 25V, EL         |               | R....38 |         | 57.11.3103   | 10 kOhm     | 5%  |
| C.....25 | 59.06.0103   | 10 nF        | 10%, 63V, PETP        |               | R....39 |         | 57.11.3203   | 20 kOhm     | 1%  |
| C.....26 | 59.06.5102   | 1 nF         | 5%, 63V, PETP         |               | R....40 |         | 57.11.3133   | 13 kOhm     | 1%  |
| C.....27 | 59.32.4102   | 1 nF         | 20%, 63V, CER         |               | R....41 |         | 57.11.3683   | 68 kOhm     | 5%  |
| C.....28 | 00.00.0000   |              | not used              |               | R....42 |         | 57.11.3102   | 1 kOhm      | 5%  |
| C.....29 | 59.34.5391   | 390 pF       | 5%, 63V, CER          |               | R....43 |         | 57.11.3473   | 47 kOhm     | 5%  |
| C.....30 | 59.06.0103   | 10 nF        | 10%, 63V, PETP        |               | R....44 |         | 57.11.3102   | 1 kOhm      | 5%  |
| C.....31 | 59.06.0103   | 10 nF        | 10%, 63V, PETP        |               | R....45 |         | 57.11.3470   | 47 Ohm      | 5%  |
| C.....32 | 59.06.0332   | 3.3 nF       | 10%, 63V, PETP        |               | R....46 |         | 57.11.3103   | 10 kOhm     | 5%  |
| C.....33 | 59.06.0103   | 10 nF        | 10%, 63V, PETP        |               | R....47 |         | 57.11.3332   | 3.3 kOhm    | 5%  |
| C.....34 | 59.22.5101   | 100 uF       | -20%, 25V, EL         |               | R....48 |         | 57.11.3222   | 2.2 kOhm    | 5%  |
| C.....35 | 59.06.0103   | 10 nF        | 10%, 63V, PETP        |               | R....49 |         | 57.11.3154   | 150 kOhm    | 5%  |
| C.....36 | 59.22.5101   | 100 uF       | -20%, 25V, EL         |               | R....50 |         | 57.11.3103   | 10 kOhm     | 1%  |
| C.....37 | 59.22.5471   | 470 uF       | -20%, 25V, EL         |               | R....51 |         | 57.11.3473   | 47 kOhm     | 1%  |
| C.....38 | 59.22.5471   | 470 uF       | -20%, 25V, EL         |               | R....52 |         | 57.11.3220   | 22 Ohm      | 5%  |
| C.....39 | 59.22.5471   | 470 uF       | -20%, 25V, EL         |               | R....53 |         | 57.11.3332   | 3.3 kOhm    | 5%  |
| C.....40 | 59.22.5471   | 470 uF       | -20%, 25V, EL         |               | R....54 |         | 57.11.3103   | 10 kOhm     | 1%  |
| C.....41 | 59.02.0685   | 6.8 uF       | 10%, 63V, MPC, /!\    |               | R....55 |         | 57.11.3132   | 1.3 kOhm    | 1%  |
| D.....1  | 50.04.0138   | UF 4004      | BYT 01-400, UES 1106  | GI,Tho,Un     | R....56 |         | 57.11.3220   | 22 Ohm      | 5%  |
| D.....2  | 50.04.0517   | BYV 32       |                       | Mot,Ph        | R....57 |         | 57.11.3220   | 22 Ohm      | 5%  |
| D.....3  | 50.04.0522   | BYV 72       | BYW 99 P - 100        | Mot,Ph        | R....58 |         | 57.11.3222   | 2.2 kOhm    | 5%  |
| D.....4  | 50.04.1103   | Z 7.5 V      | ITT,Mot,Ph,Tf,SGS,Tho |               | R....59 |         | 57.11.3222   | 2.2 kOhm    | 5%  |
| D.....5  | 50.04.0138   | UF 4004      | BYT 01-400, UES 1106  | GI,Tho,Un     | R....60 |         | 57.11.3123   | 12 kOhm     | 5%  |
| D.....6  | 50.04.0127   | BAT 85       | BAT 42                | Ph,SGS,Tho    | R....61 |         | 57.11.3222   | 2.2 kOhm    | 5%  |
| D.....7  | 50.04.1119   | Z 15 V       | ITT,Mot,Ph,Tf,SGS,Tho |               | R....62 |         | 57.56.2050   | 50 mOhm     | 3%, 3W  |
| D.....8  | 50.04.0127   | BAT 85       | BAT 42                | Ph,SGS,Tho    | RA....1 |         | 58.05.1501   | 500 Ohm     | 10%, multi turn   |
| D.....9  | 50.04.0138   | UF 4004      | BYT 01-400, UES 1106  | GI,Tho,Un     | RA....2 |         | 58.05.1501   | 500 Ohm     | 10%, multi turn   |
| D.....10 | 50.04.0127   | BAT 85       | BAT 42                | Ph,SGS,Tho    | T.....1 |         | 1.022.629.00 |             | Switching Transformer   |
| D.....11 | 50.04.0138   | UF 4004      | BYT 01-400, UES 1106  | GI,Tho,Un     | T.....2 |         | 1.022.627.00 |             | Switching Transformer   |
| D.....12 | 50.04.0517   | BYV 32       |                       | Mot,Ph        | TP....1 |         | 54.02.0320   |             | Test Point  |
| D.....13 | 50.04.0517   | BYV 32       |                       | Mot,Ph        |         |         |              |             | St  |
| IC.....1 | 50.05.0283   | LM 393 N     | LM 393 P, LM 393 DP   | Sig,TI,NS,Tho |         |         |              |             | /!\ = Increasing of safety relative to risk of fire.  |
| IC.....2 | 50.10.0113   | IP3843 N     | UC 3843 N             | IPS,Un        |         |         |              |             | Note 1 - Connector:   |
| IC.....3 | 50.10.0116   | LM317HVT     |                       | Seagate,SG    |         |         |              |             | 10 contacts, AMP Nr. 826 852-3  |
| IC.....4 | 50.07.0046   | CD4046BE     | HCF 4046 BE           | SGS,RCA       |         |         |              |             | Note 2 - Connector:   |
| IC.....5 | 50.10.0113   | IP3843 N     | UC 3843 N             | IPS,Un        |         |         |              |             | case, Studer Nr. 54.02.0409   |
| J.....1  | 54.25.0010   |              | see note 1            |               |         |         |              |             | 12 contacts, Molex Nr. 03-06-1121   |
| J.....2  | 54.02.0409   |              | see note 2            |               |         |         |              |             | 12 contacts, Studer Nr. 54.02.0407  |
| L.....1  | 62.99.0111   | 3.9 uH       |                       | Vo            |         |         |              |             | 12 contacts, Molex Nr. 02-06-7103   |
| L.....2  | 62.99.0111   | 3.9 uH       |                       | Vo            |         |         |              |             | Note 3 - Connector:   |
| L.....3  | 62.03.0010   | 48 uH        |                       | Tokin         |         |         |              |             | case, Studer Nr. 54.02.0408   |
| L.....4  | 1.022.636.00 | 30 uH        |                       | St            |         |         |              |             | 12 contacts, Molex Nr. 03-06-2121   |
| L.....5  | 62.03.0010   | 48 uH        |                       | Tokin         |         |         |              |             | 12 contacts, Studer Nr. 54.02.0406  |
| L.....6  | 1.022.29.581 | 17 uH        |                       | St            |         |         |              |             | 12 contacts, Molex Nr. 02-06-8103   |
| L.....7  | 1.022.295.81 | 17 uH        |                       | St            |         |         |              |             |   |
| L.....8  | 1.022.635.00 | 86 uH        |                       | St            |         |         |              |             |   |
| P.....1  | 54.02.0408   |              | see note 3            |               |         |         |              |             | Ce=Ceramic, El=Electrolytic, MPETP=Metallized Polyesterfilm, PETP=Polyesterfilm, MPC=Metallized Polycarbonate film. |
| Q.....1  | 50.03.0512   | BDW 93 B     | BD 899 A              | Mot,SGS,Tho   |         |         |              |             | MANUFACTURER: Fe=Ferranti, GI=General Instruments, IPS=Integrated Power   |
| Q.....2  | 50.03.0496   | BC 560       |                       | Sie           |         |         |              |             | Semiconductor, ITT=Intermetall, IR=International Rectifier,   |
| Q.....3  | 50.03.1609   | IRF 540      |                       | IR            |         |         |              |             | Mot=Motorola, NS=National Semiconductors, Ph=Philips,   |
| Q.....4  | 50.03.0512   | BDW 93 B     | BD 899 A              | Mot,SGS,Tho   |         |         |              |             | RCA=RCA Corporation, Ses=Secosens, SGS=SGS/Ates, SG=Silicon   |
| Q.....5  | 50.03.0340   | BC 337-25    | ZVN 0108 A            | ITT,NS,Ph,Sie |         |         |              |             | General, Sie=Siemens, Sig=Signetics, Six=Siliconix,   |
| Q.....6  | 50.03.1505   | VN 0808 M    |                       | Fe,Six        |         |         |              |             | St=Studer, Tf=Telefunken, Tho=Thomson, Ti=Texas Instruments,  |
| Q.....7  | 50.03.0496   | BC 560       |                       | Sie           |         |         |              |             | Un=Unitrode, Vo=Vogt & Co.  |
| Q.....8  | 50.03.1609   | IRF 540      |                       | IR            |         |         |              |             |   |
| R....1   | 57.11.3101   | 100 Ohm      | 5%                    |               |         |         |              |             | 1.820.832.81 STABILIZER GP 95/03/2200   |
| R....2   | 57.11.3331   | 330 Ohm      | 5%                    |               |         |         |              |             |   |
| R....3   | 57.11.3101   | 100 Ohm      | 5%                    |               |         |         |              |             |   |
| R....4   | 57.11.3302   | 3.0 kOhm     | 5%                    |               |         |         |              |             |   |
| R....5   | 57.11.3222   | 2.2 kOhm     | 5%                    |               |         |         |              |             |   |
| R....6   | 57.56.2050   | 50 mOhm      | 3%, 3W                |               |         |         |              |             |   |
| R....7   | 57.19.0101   | 100 Ohm      | 5%, Fuse              |               |         |         |              |             |   |
| R....8   | 57.19.0101   | 100 Ohm      | 5%, Fuse              |               |         |         |              |             |   |
| R....9   | 57.92.7013   | 0.75 Ohm     | PTC                   |               |         |         |              |             |   |
| R....10  | 57.11.3332   | 3.3 kOhm     | 5%                    |               |         |         |              |             |   |
| R....11  | 57.11.3561   | 560 Ohm      | 1%                    |               |         |         |              |             |   |
| R....12  | 57.11.3152   | 1.5 kOhm     | 1%                    |               |         |         |              |             |   |
| R....13  | 57.11.3103   | 10 kOhm      | 5%                    |               |         |         |              |             |   |

STABILIZER 1.820.832.00 / 1.820.832.81  
 - Stabilizer +/- 26V / 1A 1.820.833.00



|                   |                       |    |  |              |
|-------------------|-----------------------|----|--|--------------|
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|                   | D827 MCH              |    |  | PAGE 1 OF 1  |
| STUDER            | STABILIZER ± 26V / 1A | SC |  | 1.820.833.00 |

**STABILIZER 1.820.832.00 / 1.820.832.81**  
 - Stabilizer +/- 26V / 1A 1.820.833.00



Nr. Etikette / ESE-Warnschild  
 aufgeklebt nach Fabrikationsmuster.

\* ● gelber Punkt

|              |       |      |      |       |
|--------------|-------|------|------|-------|
| Abgezeichnet | Gepr. | Gez. | Gez. | Incxv |
| 21.3.90      |       |      |      |       |

**STUDER**  
 NEUDORF  
 ZÜRICH

**STABILIZER +/- 26V  
 ESE**

Elektronik

Nummer: **1.820.833-00**

Ad .POS. . . . . REF.No. . . . . DESCRIPTION. . . . . MANUFACTURER

|            |              |          |                       |            |
|------------|--------------|----------|-----------------------|------------|
| C...101    | 59.06.0103   | 10 nF    | 10%, 63V, PETP        |            |
| C...102    | 59.22.6221   | 220 uF   | -20%, 40V, EL         |            |
| C...103    | 59.22.6221   | 220 uF   | -20%, 40V, EL         |            |
| C...104    | 59.06.0103   | 10 nF    | 10%, 63V, PETP        |            |
| C...105    | 59.22.6221   | 220 uF   | -20%, 40V, EL         |            |
| C...106    | 59.22.6221   | 220 uF   | -20%, 40V, EL         |            |
| C...107    | 59.06.0102   | 1 nF     | 10%, 63V, PETP        |            |
| C...108    | 59.06.0102   | 1 nF     | 10%, 63V, PETP        |            |
| C...109    | 59.32.2681   | 680 pF   | 5%, 63V, CER          |            |
| C...110    | 59.22.5101   | 100 uF   | -20%, 25V, EL         |            |
| C...111    | 59.06.0104   | 100 nF   | 10%, 63V, PETP        |            |
| C...112    | 59.06.0103   | 10 nF    | 10%, 63V, PETP        |            |
| C...113    | 59.06.0332   | 3.3 nF   | 10%, 63V, PETP        |            |
| C...114    | 59.11.5685   | 6.8 uF   | 10%, 63V, PETP        |            |
| 01 C...114 | 59.02.0685   | 6.8 uF   | 10%, 63V, MPC         |            |
| D...101    | 50.04.0517   | BYV 32   |                       | Mot,Ph     |
| D...102    | 50.04.0517   | BYV 32   |                       | Mot,Ph     |
| D...103    | 50.04.0127   | BAT 85   |                       | Ph,SGS,Tho |
| D...104    | 50.04.0138   | UF 4004  |                       | GI,Tho,Un  |
| IC...101   | 50.10.0113   | IP3843 N | UC 3843 N             | IPS,Un     |
| L...101    | 1.022.637.00 | 403 uH   |                       | St         |
| L...102    | 62.03.0010   | 68 uH    |                       | Tokin      |
| Q...101    | 50.03.0496   | BC 560   |                       | Sie        |
| Q...102    | 50.03.1609   | IRF 540  |                       | IR         |
| R...101    | 57.92.7015   | 0.21 Ohm | PTC                   |            |
| R...102    | 57.11.3562   | 5.6 Kohm | 5%                    |            |
| R...103    | 57.11.3562   | 5.6 Kohm | 5%                    |            |
| R...104    | 57.92.7015   | 0.21 Ohm | PTC                   |            |
| R...105    | 57.11.3222   | 2.2 Kohm | 1%                    |            |
| R...106    | 57.11.3203   | 20 Kohm  | 1%                    |            |
| R...107    | 57.11.3122   | 1.2 Kohm | 1%                    |            |
| R...108    | 57.11.3103   | 10 Kohm  | 5%                    |            |
| R...109    | 57.11.3103   | 10 Kohm  | 5%                    |            |
| R...110    | 57.11.3222   | 2.2 Kohm | 5%                    |            |
| R...111    | 57.11.3473   | 47 Kohm  | 5%                    |            |
| R...112    | 57.11.3332   | 3.3 Kohm | 5%                    |            |
| R...113    | 57.11.3154   | 150 Kohm | 5%                    |            |
| R...114    | 57.11.3682   | 6.8 Kohm | 1%                    |            |
| R...115    | 57.11.3220   | 22 Ohm   | 5%                    |            |
| R...116    | 57.11.3332   | 3.3 Kohm | 5%                    |            |
| R...117    | 57.11.3132   | 1.3 Kohm | 1%                    |            |
| R...118    | 57.56.2050   | 50 mOhm  | 3%, 3W                |            |
| R...119    | 57.11.3100   | 10 Ohm   | 5%                    |            |
| RA...101   | 00.00.0000   |          | not used              |            |
| T...101    | 1.022.634.00 |          | Switching Transformer | St         |

(01) 03.10.91 Improved high frequency behaviour.

Ce=Ceramic, El=Electrolytic, MPETP=Metallized Polyesterfilm, PEP=Polyesterfilm, MPC=Metallized Polycarbonate film.

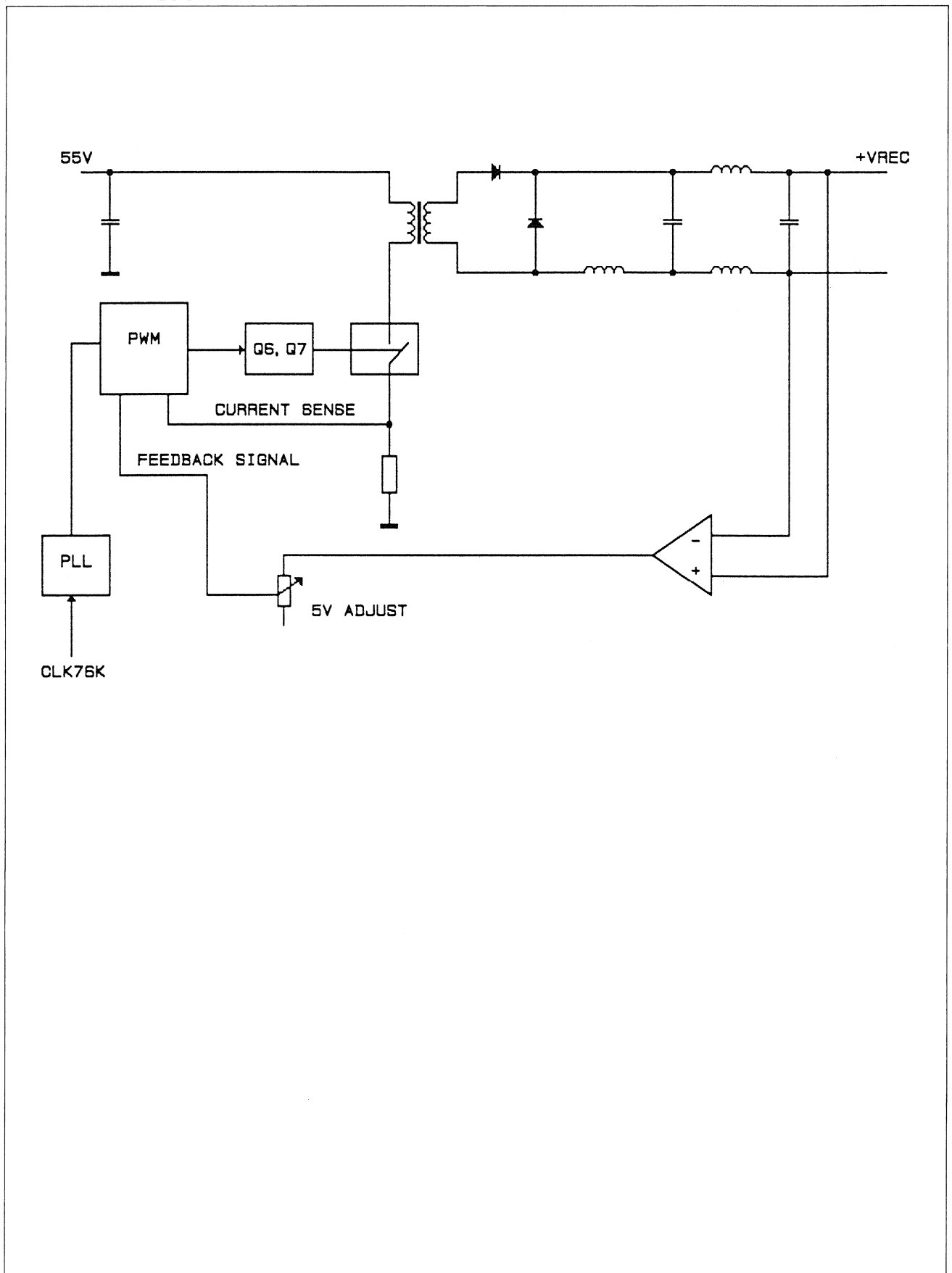
MANUFACTURER: GI=General Instruments, IPS=Integrated Power Semiconductor, IR=International Rectifier, Mot=Motorola, Ph=Philips, SGS=SGS/Ates, Sie=Siemens, St=Studer, Tho=Thomson, Un=Unitec.

|              |                     |               |
|--------------|---------------------|---------------|
| 1.820.833.00 | STABILIZER +/- 26 V | PZ 90/03/2100 |
| 1.820.833.00 | STABILIZER +/- 26 V | PZ 91/10/0301 |



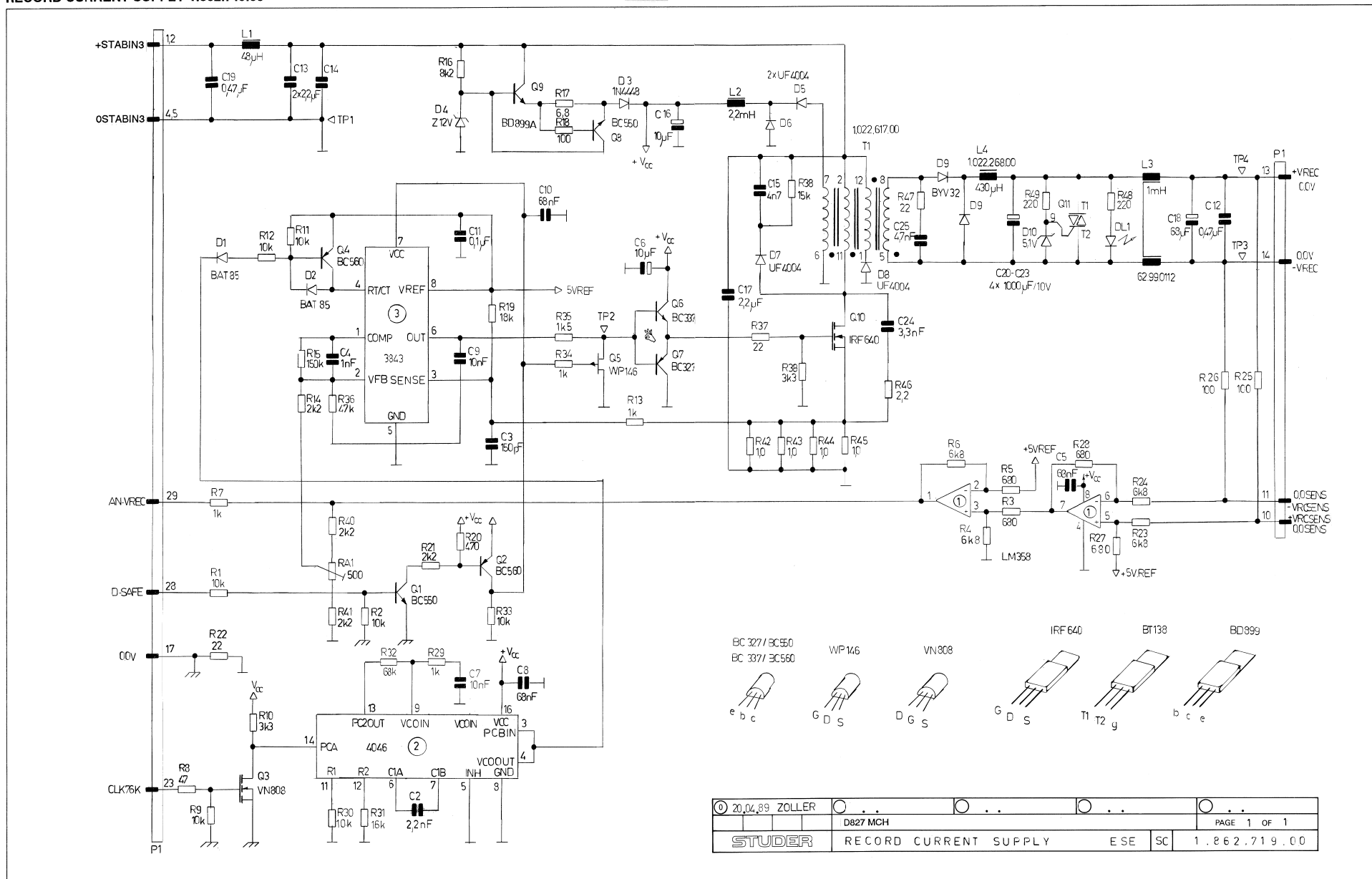
**BLOCK DIAGRAM**

Record Current Supply 1.862.719





RECORD CURRENT SUPPLY 1.862.719.00



|                   |  |                       |             |    |
|-------------------|--|-----------------------|-------------|----|
| © 20,04,89 ZOLLER |  |                       |             |    |
| D827 MCH          |  |                       | PAGE 1 OF 1 |    |
| STUDER            |  | RECORD CURRENT SUPPLY | ESE         | SC |
| 1.862.719.00      |  |                       |             |    |

RECORD CURRENT SUPPLY 1.862.719.00

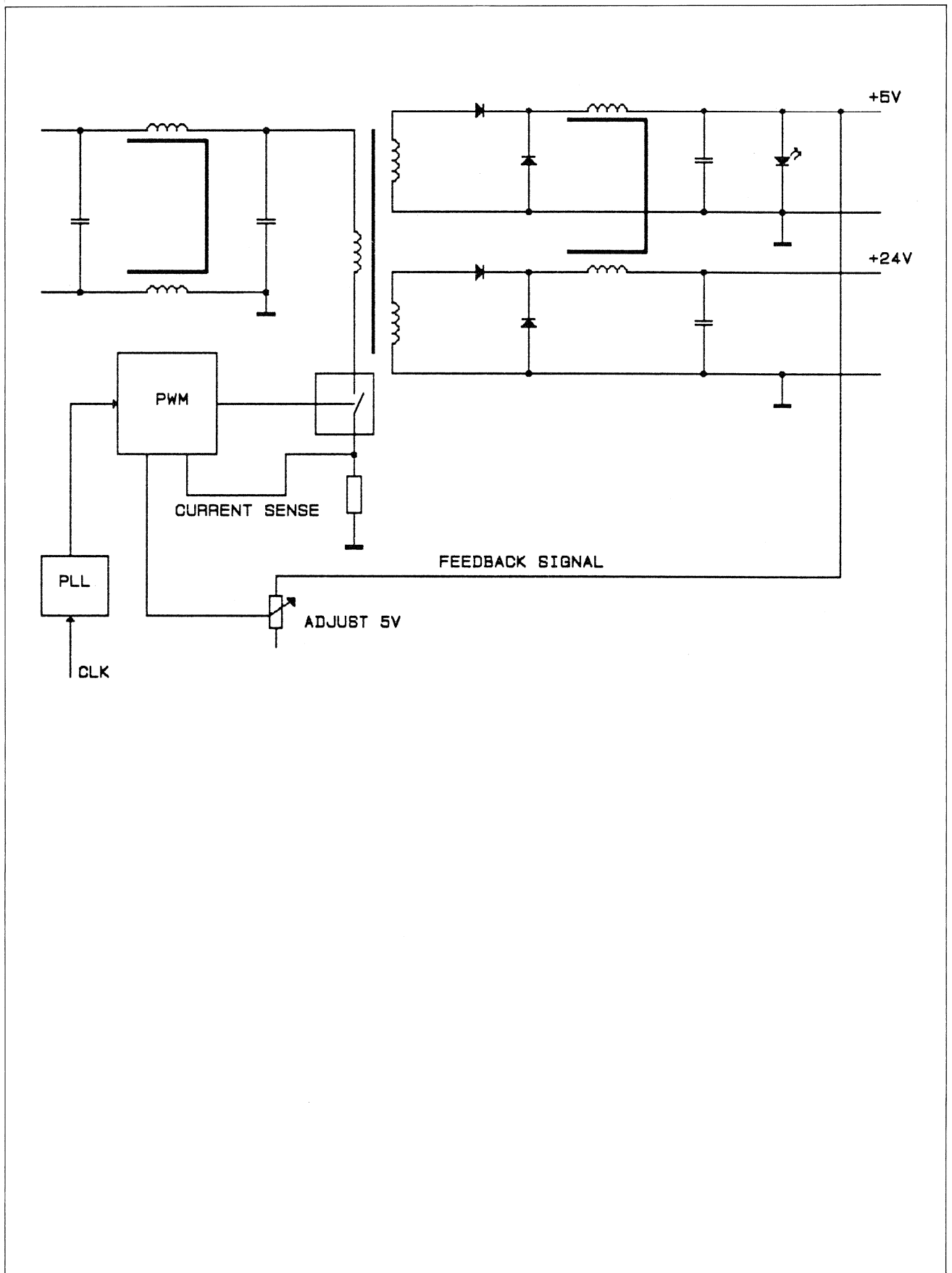
| Ad      | POS.         | REF.No.   | DESCRIPTION                  | MANUFACTURER      |
|---------|--------------|-----------|------------------------------|-------------------|
| D....5  | 50.04.0138   | UF 4004   | BYT 01-400, UES 1106         | GI,Tho,Un         |
| D....6  | 50.04.0138   | UF 4004   | BYT 01-400, UES 1106         | GI,Tho,Un         |
| D....7  | 50.04.0138   | UF 4004   | BYT 01-400, UES 1106         | GI,Tho,Un         |
| D....8  | 50.04.0138   | UF 4004   | BYT 01-400, UES 1106         | GI,Tho,Un         |
| D....9  | 50.04.0517   | BYV 32    |                              | Not,Ph            |
| D....10 | 50.04.1112   | Z 5.1V    |                              | ITT,Not,Ph,Tf,Tho |
| DL....1 | 50.04.2129   | LS 3160   |                              |                   |
| IC....1 | 50.05.0286   | LM 358 N  | LM 358 P                     | NS,SGS,Ti         |
| IC....2 | 50.07.0046   | CD4046BE  | HCF4046BE                    | SGS,RCA           |
| IC....3 | 50.10.0113   | IP 3943N  | UC 3943N                     | IPS,Un            |
| L....1  | 62.03.0010   | 48 uH     | Filter coil                  | TokoIn            |
| L....2  | 62.02.1222   | 2,2 mH    | Filter coil                  | Toko              |
| L....3  | 62.99.0132   | 33 mH     | Filter coil                  | TokoIn            |
| L....4  | 1.022.268.00 | 430 uH    | Filter coil                  | St                |
| P.....1 | 54.01.0358   | 96 cont.  |                              |                   |
| Q....1  | 50.03.0497   | BC 550    |                              | Sie               |
| Q....2  | 50.03.0496   | BC 560    |                              | Sie               |
| Q....3  | 50.03.1505   | VN 0808 M | ZVN 0108 A                   | Fe,Six            |
| Q....4  | 50.03.0496   | BC 560    |                              | Sie               |
| Q....5  | 50.03.0329   | MP 146    |                              | Sie               |
| Q....6  | 50.03.0340   | BC 337-25 |                              | ITT,NS,Ph,Sie     |
| Q....7  | 50.03.0351   | BC 327-25 |                              | ITT,Ph,Sie        |
| Q....8  | 50.03.0497   | BC 550    |                              | Sie               |
| Q....9  | 50.03.0512   | BD 899 A  | BDW 93 B                     | hot,SGS           |
| Q....10 | 50.03.1610   | TRF 640   |                              | IR                |
| Q....11 | 50.99.0106   | T 2800 D  | T 2800 M, 8T 138             | Ph,RCA            |
| R....1  | 57.11.3103   | 10 kOhm   | 5%                           |                   |
| R....2  | 57.11.3103   | 10 kOhm   | 5%                           |                   |
| R....3  | 57.11.3681   | 680 Ohm   | 1%                           |                   |
| R....4  | 57.11.3682   | 6,8 kOhm  | 1%                           |                   |
| R....5  | 57.11.3681   | 680 Ohm   | 1%                           |                   |
| R....6  | 57.11.3682   | 6,8 kOhm  | 1%                           |                   |
| R....7  | 57.11.3102   | 1 kOhm    | 5%                           |                   |
| R....8  | 57.11.3476   | 47 Ohm    | 5%                           |                   |
| R....9  | 57.11.3103   | 10 kOhm   | 5%                           |                   |
| R....10 | 57.11.3332   | 3,3 kOhm  | 5%                           |                   |
| R....11 | 57.11.3103   | 10 kOhm   | 5%                           |                   |
| R....12 | 57.11.3103   | 10 kOhm   | 5%                           |                   |
| R....13 | 57.11.3102   | 1 kOhm    | 5%                           |                   |
| R....14 | 57.11.3222   | 2,2 kOhm  | 5%                           |                   |
| R....15 | 57.11.3154   | 150 kOhm  | 5%                           |                   |
| R....16 | 57.11.3222   | 2,2 kOhm  | 5%                           |                   |
| R....17 | 57.11.3689   | 6,8 Ohm   | 5%                           |                   |
| R....18 | 57.11.3101   | 100 Ohm   | 5%                           |                   |
| R....19 | 57.11.3183   | 18 kOhm   | 5%                           |                   |
| R....20 | 57.11.3471   | 470 Ohm   | 5%                           |                   |
| R....21 | 57.11.3222   | 2,2 kOhm  | 5%                           |                   |
| R....22 | 57.11.3220   | 22 Ohm    | 5%                           |                   |
| R....23 | 57.11.3682   | 6,8 kOhm  | 1%                           |                   |
| R....24 | 57.11.3682   | 6,8 kOhm  | 1%                           |                   |
| R....25 | 57.11.3101   | 100 Ohm   | 5%                           |                   |
| R....26 | 57.11.3101   | 100 Ohm   | 5%                           |                   |
| R....27 | 57.11.3681   | 680 Ohm   | 1%                           |                   |
| R....28 | 57.11.3681   | 680 Ohm   | 1%                           |                   |
| R....29 | 57.11.3102   | 1 kOhm    | 5%                           |                   |
| R....30 | 57.11.3103   | 10 kOhm   | 1%                           |                   |
| R....31 | 57.11.3163   | 16 kOhm   | 1%                           |                   |
| R....32 | 57.11.3683   | 68 kOhm   | 5%                           |                   |
| R....33 | 57.11.3103   | 10 kOhm   | 5%                           |                   |
| R....34 | 57.11.3102   | 1 kOhm    | 5%                           |                   |
| R....35 | 57.11.3152   | 1,5 kOhm  | 5%                           |                   |
| R....36 | 57.11.3473   | 47 kOhm   | 5%                           |                   |
| R....37 | 57.11.3220   | 22 Ohm    | 5%                           |                   |
| R....38 | 57.11.3332   | 3,3 kOhm  | 5%                           |                   |
| R....39 | 57.11.3153   | 15 kOhm   | 5%                           |                   |
| R....40 | 57.11.3222   | 2,2 kOhm  | 5%                           |                   |
| R....41 | 57.11.3222   | 2,2 kOhm  | 5%                           |                   |
| R....42 | 57.11.3109   | 1 Ohm     | 1%                           |                   |
| R....43 | 57.11.3109   | 1 Ohm     | 1%                           |                   |
| R....44 | 57.11.3109   | 1 Ohm     | 1%                           |                   |
| R....45 | 57.11.3109   | 1 Ohm     | 1%                           |                   |
| R....46 | 57.11.3229   | 2,2 Ohm   | 5%                           |                   |
| R....47 | 57.11.3220   | 22 Ohm    | 5%                           |                   |
| R....48 | 57.11.3221   | 220 Ohm   | 5%                           |                   |
| R....49 | 57.11.3221   | 220 Ohm   | 5%                           |                   |
| RA....1 | 58.05.0501   | 500 Ohm   | 10%                          |                   |
| T....1  | 1.022.617.00 |           | Switching transformer 5V, 5A | St                |
| TP....1 | 54.02.0320   |           | Test point                   |                   |
| TP....2 | 54.02.0320   |           | Test point                   |                   |
| TP....3 | 54.02.0320   |           | Test point                   |                   |
| TP....4 | 54.02.0320   |           | Test point                   |                   |

| Ad      | POS.       | REF.No. | DESCRIPTION       | MANUFACTURER      |
|---------|------------|---------|-------------------|-------------------|
| C....1  | 00.00.0000 | 2,2 nF  | not used          |                   |
| C....2  | 59.06.0222 | 2,2 nF  | 10%, 63V, PETP    |                   |
| C....3  | 59.34.4151 | 150 pF  | 5%, 63V, CER      |                   |
| C....4  | 59.06.0102 | 1 nF    | 10%, 63V, PETP    |                   |
| C....5  | 59.06.0683 | 68 nF   | 10%, 63V, PETP    |                   |
| C....6  | 59.26.5100 | 10 uF   | 20%, 25V, SAL     |                   |
| C....7  | 59.06.0102 | 1 nF    | 10%, 63V, PETP    |                   |
| C....8  | 59.06.0683 | 68 nF   | 10%, 63V, PETP    |                   |
| C....9  | 59.06.0103 | 10 nF   | 10%, 63V, PETP    |                   |
| C....10 | 59.06.0688 | 68 nF   | 10%, 63V, PETP    |                   |
| C....11 | 59.06.0104 | 100 nF  | 10%, 63V, PETP    |                   |
| C....12 | 59.06.0474 | 470 nF  | 10%, 63V, PETP    |                   |
| C....13 | 59.31.5225 | 2,2 uF  | 10%, 63V, PETP    |                   |
| C....14 | 59.31.5225 | 2,2 uF  | 10%, 63V, PETP    |                   |
| C....15 | 59.06.0472 | 4,7 nF  | 10%, 63V, PETP    |                   |
| C....16 | 59.26.5100 | 10 uF   | 20%, 25V, SAL     |                   |
| C....17 | 59.31.5225 | 2,2 uF  | 10%, 63V, PETP    |                   |
| C....18 | 59.26.0680 | 68 nF   | 20%, 6,3V, SAL    |                   |
| C....19 | 59.06.0474 | 470 nF  | 10%, 63V, PETP    |                   |
| C....20 | 59.22.3102 | 1000 uF | -20%, 10V, EL     |                   |
| C....21 | 59.22.3102 | 1000 uF | -20%, 10V, EL     |                   |
| C....22 | 59.22.3102 | 1000 uF | -20%, 10V, EL     |                   |
| C....23 | 59.22.3102 | 1000 uF | -20%, 10V, EL     |                   |
| C....24 | 59.41.2332 | 3,3 nF  | 5%, 160V, PP      |                   |
| C....25 | 59.06.0472 | 4,7 nF  | 10%, 63V, PETP    |                   |
| D....1  | 50.04.0127 | BAT 42  | BAT 45, BAS 40-02 | Ph,Sie,Tho        |
| D....2  | 50.04.0127 | BAT 42  | BAT 45, BAS 40-02 | Ph,Sie,Tho        |
| D....3  | 50.04.0125 | 1N 4448 |                   | Fe,ITT,Ph,Ses,Tf  |
| D....4  | 50.04.1117 | Z 12V   |                   | ITT,Not,Ph,Tf,Tho |

|                                   |  |  |  |                     |  |
|-----------------------------------|--|--|--|---------------------|--|
| STUDER<br>RECHENSDIENST<br>ZÜRICH |  | Ebenenname<br><b>RECORD CURRENT<br/>SUPPLY<br/>ESE</b> |  | Titel<br><b>ESE</b> |  |
| Datum<br>20.4.89                  |  | Gez.<br>PZ   |  | Index<br>10         |  |
| Kopie für:                        |  | Nummer<br>1.862.719-00                                 |  |                     |  |

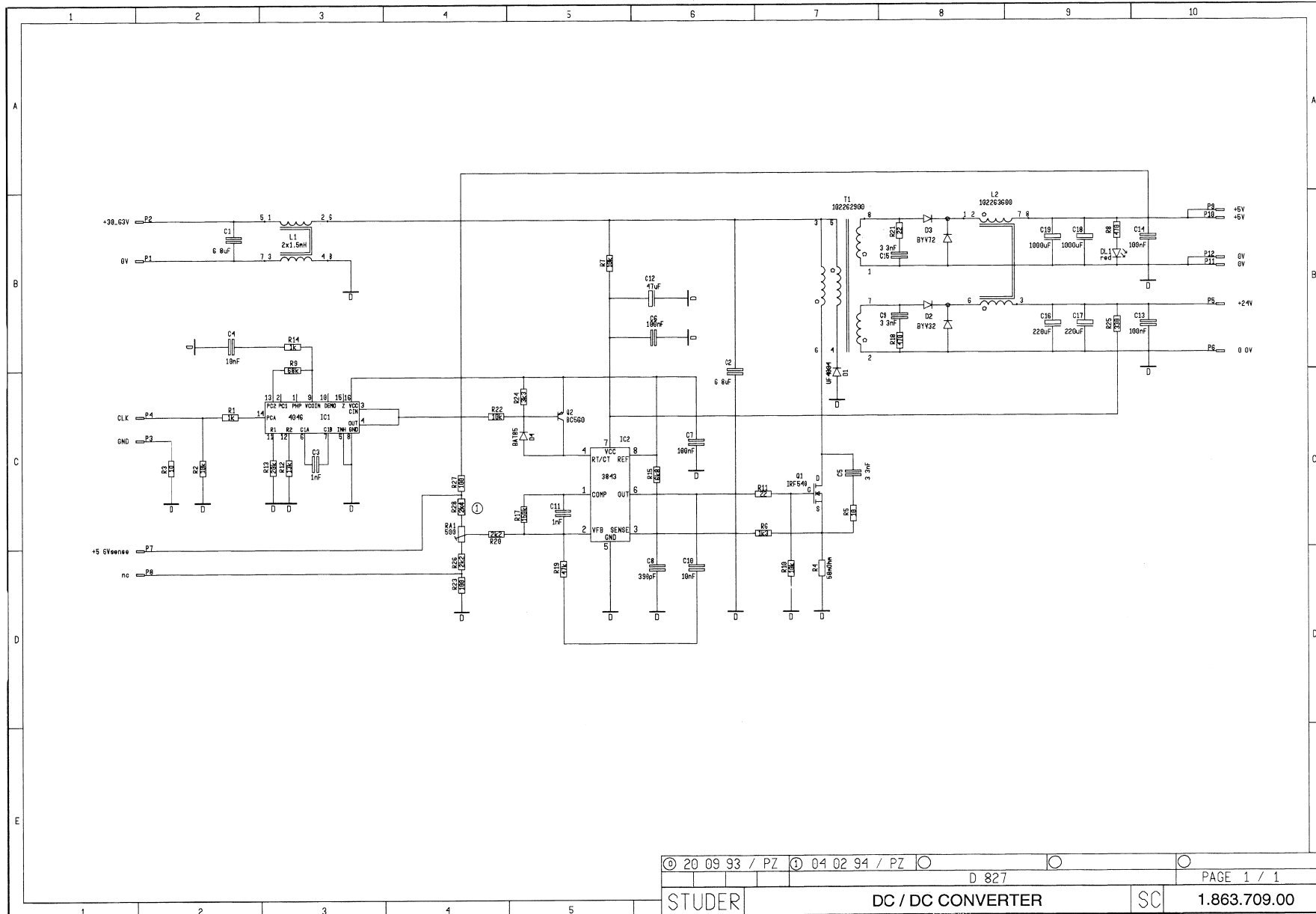
## BLOCK DIAGRAM

DC / DC Converter 1.863.709

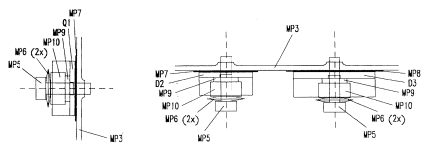
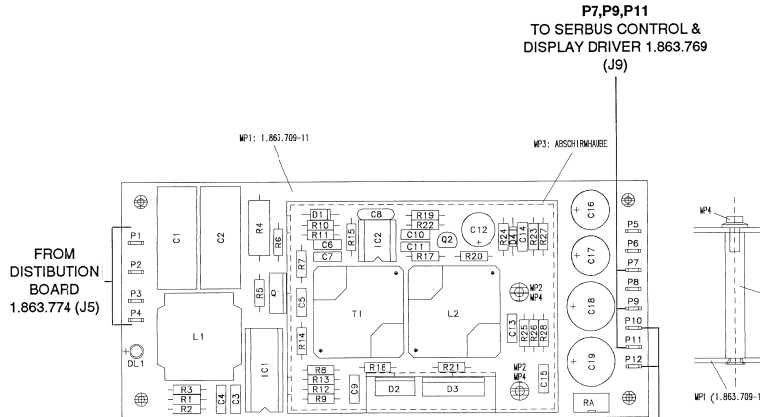




DC / DC CONVERTER 1.863.709.00



|                 |                   |       |              |
|-----------------|-------------------|-------|--------------|
| © 20 09 93 / PZ | © 04 02 94 / PZ   | D 827 | PAGE 1 / 1   |
| STUDER          | DC / DC CONVERTER | SC    | 1.863.709.00 |



WP1: ESE-Warnschild Id 43.01.0108 nach  
Fabrikationsmuster aufgeklebt  
WP12: NR.-Etikette 1.863.709.01 nach  
Fabrikationsmuster aufgeklebt

P7,P9,P11  
TO SERBUS CONTROL &  
DISPLAY DRIVER 1.863.769  
(J9)

P10,P12  
TO TD-CONTROL &  
DISPLAY DRIVER 1.863.768  
(J7)

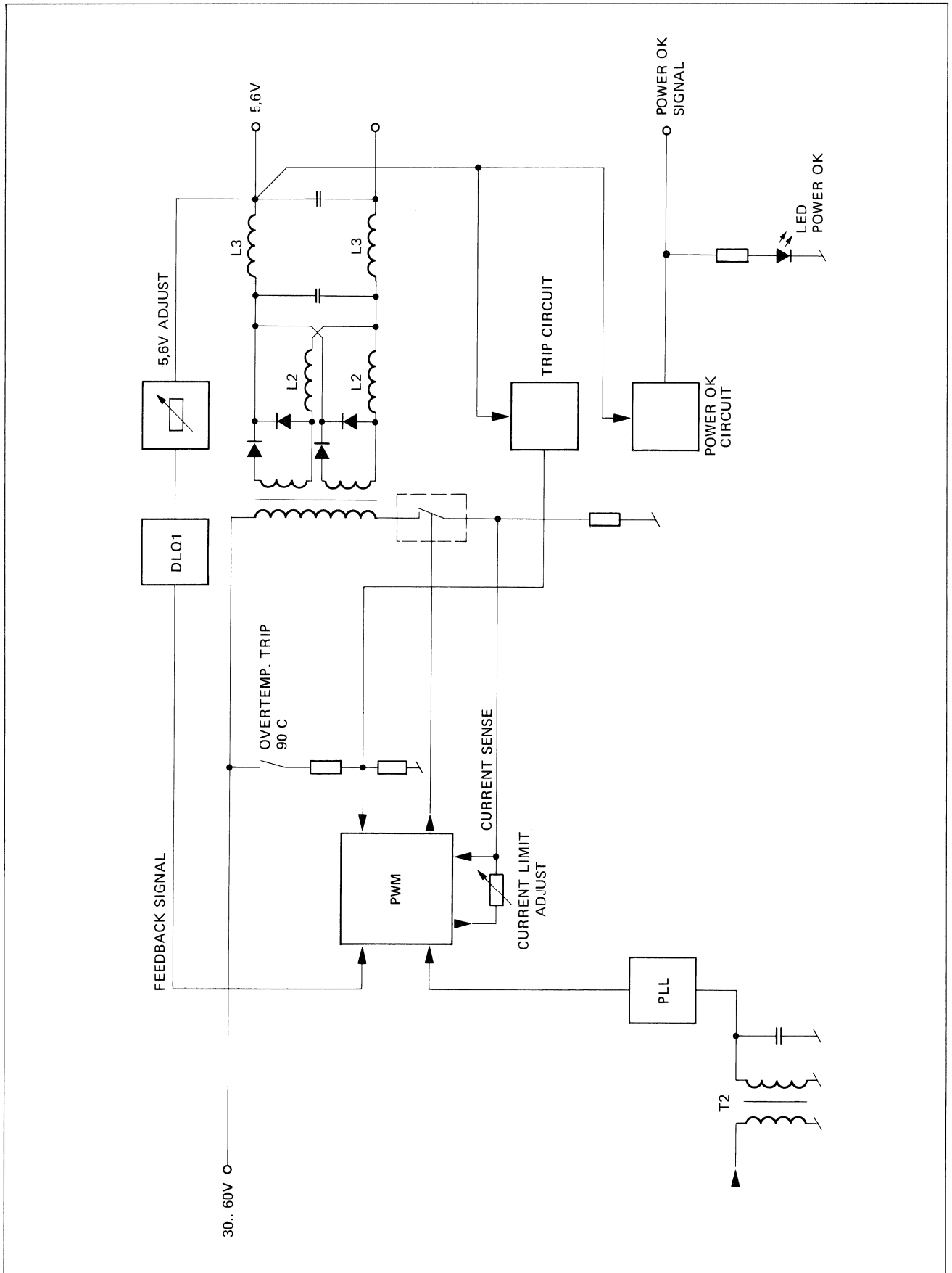
| Revision | Neu / Ersatz /<br>Änderung | Arbeits-<br>Zeichen | Index |
|----------|----------------------------|---------------------|-------|
| 20.9.93  | PZ                         | PZ                  | HAE   |
| Date     | Visu                       | Gepr                | Seen  |
| Datum    | Ger.                       | Leg.                | Ins   |
| Copy to: | Kopie fuer:                |                     |       |
| Number   | 1.863.709.00               |                     |       |

STUDER REGENSDORF DC / DC CONVERTER ESE 1.863.709.00

| Ad           | POS.            | REF. No.  | DESCRIPTION                             | MANUFACTURER |
|--------------|-----------------|-----------|---|--------------|
| C.....1      | 59.02.0685      | 6.8 uF    | 10%, 63V                                | MPC          |
| C.....2      | 59.02.0685      | 6.8 uF    | 10%, 63V                                | MPC          |
| C.....3      | 59.06.0102      | 1000 pF   | 10%, 63V                                | PETP         |
| C.....4      | 59.06.0103      | 0.01 uF   | 10%, 63V                                | PETP         |
| C.....5      | 59.06.0332      | 3300 pF   | 10%, 63V                                | PETP         |
| C.....6      | 59.06.0104      | 0.1 uF    | 10%, 63V                                | PETP         |
| C.....7      | 59.06.0104      | 0.1 uF    | 10%, 63V                                | PETP         |
| C.....8      | 59.34.5391      | 390 pF    | 5%, N1500                               | CER          |
| C.....9      | 00.00.0000      |           | not used                                |              |
| C.....10     | 59.06.0103      | 0.01 uF   | 10%, 63V                                | PETP         |
| C.....11     | 59.06.0102      | 1000 pF   | 10%, 63V                                | PETP         |
| C.....12     | 59.22.8470      | 47 uF     | -20%, 63V                               | EL           |
| C.....13     | 59.06.0104      | 0.1 uF    | 10%, 63V                                | PETP         |
| C.....14     | 59.06.0104      | 0.1 uF    | 10%, 63V                                | PETP         |
| C.....15     | 59.06.0332      | 3300 pF   | 10%, 63V                                | PETP         |
| C.....16     | 59.22.6221      | 220 uF    | -20%, 40V                               | EL           |
| C.....17     | 59.22.6221      | 220 uF    | -20%, 40V                               | EL           |
| C.....18     | 59.22.3102      | 1000 uF   | -20%, 10V                               | EL           |
| C.....19     | 59.22.3102      | 1000 uF   | -20%, 10V                               | EL           |
| D.....1      | 50.04.0138      | UF 4004   | BVT 01-400                              |              |
| D.....2      | 50.04.0517      | BY32-200  | BVY 32E-200,                            |              |
| D.....3      | 50.04.0520      | NBR304SPT | PBYR304SPT                              |              |
| D.....4      | 50.04.0127      | BAT 85    |   |              |
| DL.....1     | 50.04.2129      | LS 3360   | RED DIFF                                |              |
| IC.....1     | 50.07.0046      | CD 4046   | HEF 4046                                |              |
| IC.....2     | 50.10.0113      | IP 3843 N |   |              |
| L.....1      | 62.03.0100      | >1.5 M    | 2 A, COMMON MODE CHOKE                  |              |
| L.....2      | 1.022.636.00    | 30uH/7A   | STORAGE INDUCTOR                        |              |
| MP.....1     | 1.863.709.11    |           | 1 pce DC/DC CONVERTER 5V/4A PCB /1\     |              |
| MP.....2     | 1.010.022.22    |           | 2 pcs NIETMUTTER SW 6, M 3 * 25         |              |
| MP.....3     | 1.862.812.02    |           | 1 pce ABSCHIRMHAUBE                     |              |
| MP.....4     | 21.53.9354      |           | 2 pcs 2-SCHR. IS. ZIN, M 3 * 6          |              |
| MP.....5     | 21.53.0356      |           | 3 pcs 2-SCHR. IS. ZIN, M 3 * 10         |              |
| MP.....6     | 37.01.0101      |           | 6 pcs TELLERFEDER, D 3.2 / 8 * 0.3      |              |
| MP.....7     | 50.20.0305      |           | 2 pcs TO 220 GLIMMERSCHLEIBE GEFETTET   |              |
| MP.....8     | 50.20.0317      |           | 1 pce B 65 GLIMMERSCHLEIBE              |              |
| MP.....9     | 50.20.0404      |           | 3 pcs ISOLIERDURCHFUEHRUNG, Ø 6.0 / 3.5 |              |
| MP.....10    | 1.010.098.27    |           | 3 pcs DISTANZHALSE D 3.1 / 7.0 * 2.3    |              |
| MP.....11    | 43.01.0108      |           | 1 pce ESE-WARNschild                    |              |
| MP.....12    | 1.863.709.01    |           | 1 pce NR.-ETIKETTE 5 * 20               |              |
| P.....1      | 54.02.0320      |           | 2.8*0.8, GERADE                         |              |
| P.....2      | 54.02.0320      |           | 2.8*0.8, GERADE                         |              |
| P.....3      | 54.02.0320      |           | 2.8*0.8, GERADE                         |              |
| P.....4      | 54.02.0320      |           | 2.8*0.8, GERADE                         |              |
| P.....5      | 54.02.0320      |           | 2.8*0.8, GERADE                         |              |
| P.....6      | 54.02.0320      |           | 2.8*0.8, GERADE                         |              |
| P.....7      | 54.02.0320      |           | 2.8*0.8, GERADE                         |              |
| P.....8      | 54.02.0320      |           | 2.8*0.8, GERADE                         |              |
| P.....9      | 54.02.0320      |           | 2.8*0.8, GERADE                         |              |
| P.....10     | 54.02.0320      |           | 2.8*0.8, GERADE                         |              |
| P.....11     | 54.02.0320      |           | 2.8*0.8, GERADE                         |              |
| P.....12     | 54.02.0320      |           | 2.8*0.8, GERADE                         |              |
| Q.....1      | 50.03.1509      | IRF 540   | HEXFET, N-CHANNEL                       |              |
| Q.....2      | 50.03.0516      | BC 307 B  | BC 557 B, PNP                           |              |
| R.....1      | 57.11.3102      | 1 K       | 1%, 0207, MF                            |              |
| R.....2      | 57.11.3103      | 10 K      | 1%, 0207, MF                            |              |
| R.....3      | 57.11.3100      | 10        | 1%, 0207, MF                            |              |
| R.....4      | 57.56.2050      | 0.050     | 5%, 3 W                                 |              |
| R.....5      | 57.11.3100      | 10        | 1%, 0207, MF                            |              |
| R.....6      | 57.11.3132      | 1.3 K     | 1%, 0207, MF                            |              |
| R.....7      | 57.11.3103      | 10 K      | 1%, 0207, MF                            |              |
| R.....8      | 57.11.3331      | 330       | 1%, 0207, MF                            |              |
| R.....9      | 57.11.3683      | 68 K      | 1%, 0207, MF                            |              |
| R.....10     | 57.11.3103      | 10 K      | 1%, 0207, MF                            |              |
| R.....11     | 57.11.3220      | 22        | 1%, 0207, MF                            |              |
| R.....12     | 57.11.3133      | 13 K      | 1%, 0207, MF                            |              |
| R.....13     | 57.11.3203      | 20 K      | 1%, 0207, MF                            |              |
| R.....14     | 57.11.3102      | 1 K       | 1%, 0207, MF                            |              |
| R.....15     | 57.11.3682      | 6.8 K     | 1%, 0207, MF                            |              |
| R.....17     | 57.11.3154      | 350 K     | 1%, 0207, MF                            |              |
| R.....18     | 00.00.0000      |           | not used                                |              |
| R.....19     | 57.11.3473      | 47 K      | 1%, 0207, MF                            |              |
| R.....20     | 57.11.3222      | 2.2 K     | 1%, 0207, MF                            |              |
| R.....21     | 57.11.3220      | 22        | 1%, 0207, MF                            |              |
| R.....22     | 57.11.3103      | 10 K      | 1%, 0207, MF                            |              |
| R.....23     | 57.11.3101      | 100       | 1%, 0207, MF                            |              |
| R.....24     | 57.11.3332      | 3.3 K     | 1%, 0207, MF                            |              |
| R.....25     | 57.11.3331      | 330       | 1%, 0207, MF                            |              |
| R.....26     | 57.11.3222      | 2.2 K     | 1%, 0207, MF                            |              |
| R.....27     | 57.11.3101      | 100       | 1%, 0207, MF                            |              |
| R.....28     | 57.11.3302      | 3.3 K     | 1%, 0207, MF                            |              |
| R.....28     | 57.11.3242      | 2.4 K     | 1%, 0207, MF                            |              |
| RA.....1     | 58.01.9501      | 500       | 10% .5 W, PMG                           |              |
| T.....1      | 1.022.629.00    |           | SWITCHING TRANSFORMER 5.6V,24V          |              |
| 1.863.709.00 | DC/DC CONVERTER |           | GP 93/09/2000                           |              |
| 1.863.709.00 | DC/DC CONVERTER |           | GP 94/02/0401                           |              |

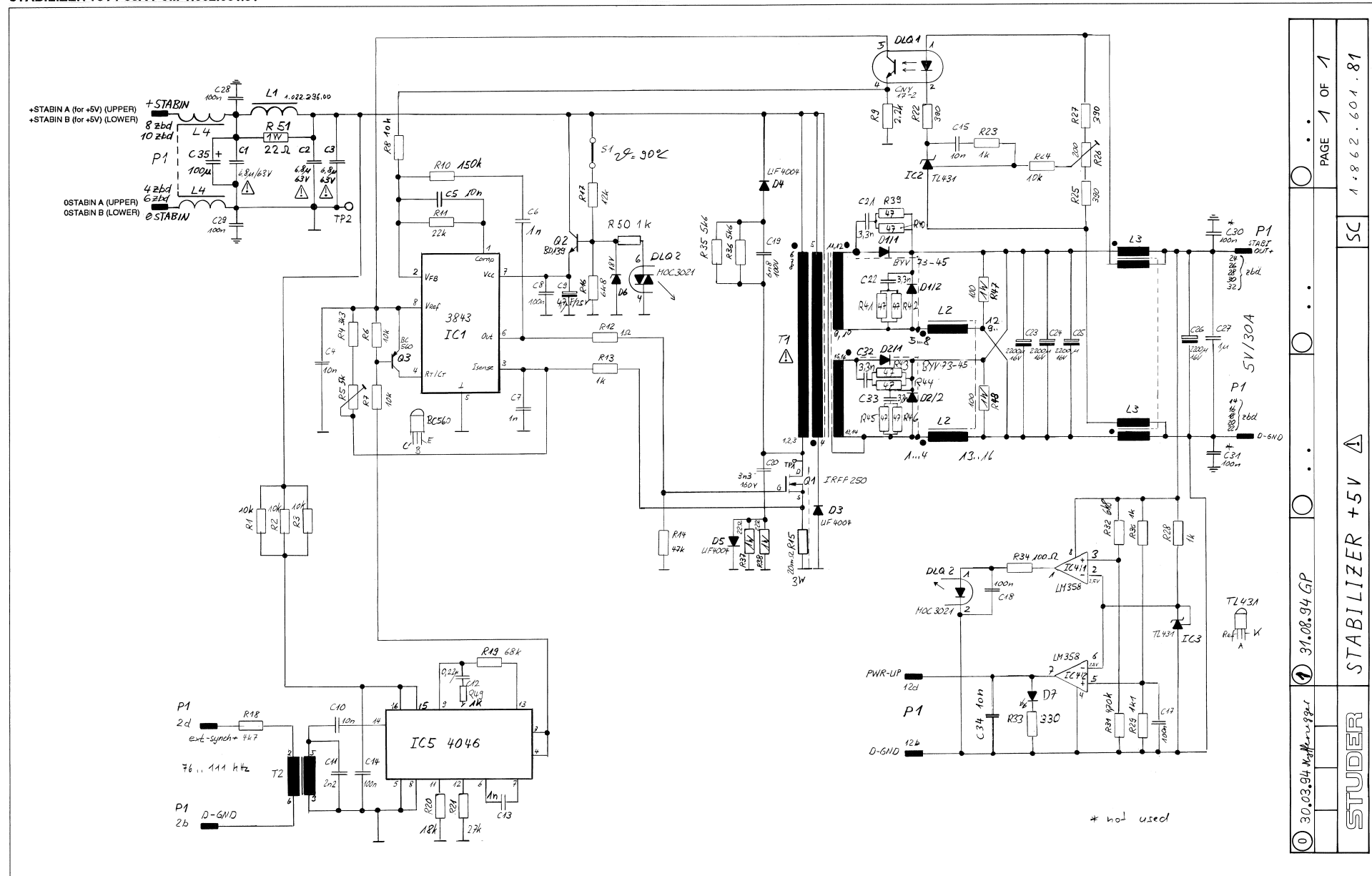
**BLOCK DIAGRAM**

Stabilizer 5V / 30A 1.862.601





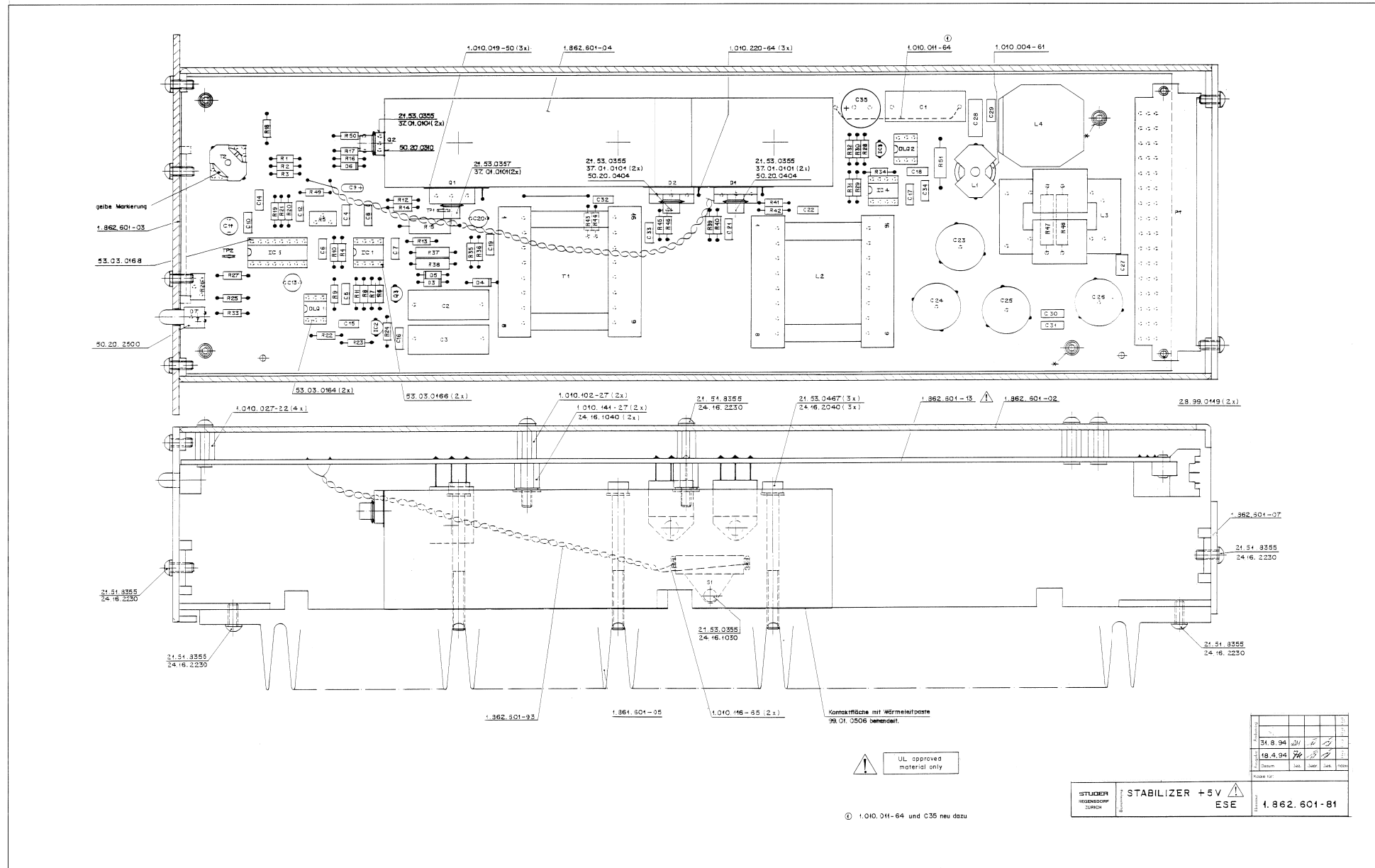
STABILIZER +5V / 30A PCM 1.862.601.81



|                |             |              |
|----------------|-------------|--------------|
| 30.03.94       | 31.08.94 GP | PAGE 1 OF 1  |
| STUDER         |             | SC           |
| STABILIZER +5V |             | 1.862.601.81 |



STABILIZER +5V / 30A PCM 1.862.601.81





STABILIZER +5V / 30A PCM 1.862.601.81

| Ad       | POS | REF.No       | DESCRIPTION | MANUFACTURER                   | Ad        | POS | REF.No       | DESCRIPTION | MANUFACTURER                             |
|----------|-----|--------------|-------------|--------------------------------|-----------|-----|--------------|-------------|--|
| C.....1  |     | 59.02.0685   | 6.8 uF      | 10%, 63V, MPC, /I\             | R....37   |     | 57.13.4220   | 22 Ohm      | 2% 1W                                    |
| C.....2  |     | 59.02.0685   | 6.8 uF      | 10%, 63V, MPC, /I\             | R....38   |     | 57.13.4220   | 22 Ohm      | 2% 1W                                    |
| C.....3  |     | 59.02.0685   | 6.8 uF      | 10%, 63V, MPC, /I\             | R....39   |     | 57.11.3470   | 47 Ohm      | 1%                                       |
| C.....4  |     | 59.06.0103   | 10 nF       | 10%, 63V, PETP                 | R....40   |     | 57.11.3470   | 47 Ohm      | 1%                                       |
| C.....5  |     | 59.06.0103   | 10 nF       | 10%, 63V, PETP                 |           |     |              |             |  |
| C.....6  |     | 59.06.0102   | 1 nF        | 10%, 63V, PETP                 | R....41   |     | 57.11.3470   | 47 Ohm      | 1%                                       |
| C.....7  |     | 59.06.0102   | 1 nF        | 10%, 63V, PETP                 | R....42   |     | 57.11.3470   | 47 Ohm      | 1%                                       |
| C.....8  |     | 59.06.0104   | 100 nF      | 10%, 63V, PETP                 | R....43   |     | 57.11.3470   | 47 Ohm      | 1%                                       |
| C.....9  |     | 59.26.5479   | 4.7 uF      | 20%, 25V, Sal                  | R....44   |     | 57.11.3470   | 47 Ohm      | 1%                                       |
| C.....10 |     | 59.06.0103   | 10 nF       | 10%, 63V, PETP                 | R....45   |     | 57.11.3470   | 47 Ohm      | 1%                                       |
|          |     |              |             |                                | R....46   |     | 57.11.3470   | 47 Ohm      | 1%                                       |
| C.....11 |     | 59.05.2222   | 2.2 nF      | 2.5%, 160V, PP                 | R....47   |     | 57.13.4101   | 100 Ohm     | 2% 1W                                    |
| C.....12 |     | 59.06.0224   | 220 nF      | 10%, 63V, PETP                 | R....48   |     | 57.13.4101   | 100 Ohm     | 2% 1W                                    |
| C.....13 |     | 59.05.2102   | 1 nF        | 2.5%, 630V, PP                 | R....49   |     | 57.11.3102   | 1 kOhm      | 1%                                       |
| C.....14 |     | 59.06.0104   | 100 nF      | 10%, 63V, PETP                 | R....50   |     | 57.11.3102   | 1 kOhm      | 1%                                       |
| C.....15 |     | 59.06.0103   | 10 nF       | 10%, 63V, PETP                 |           |     |              |             |  |
| C.....16 |     | 00.00.0000   | not used    |                                | R....51   |     | 57.13.4220   | 22 Ohm      | 2% 1W                                    |
| C.....17 |     | 59.06.0104   | 100 nF      | 10%, 63V, PETP                 |           |     |              |             |  |
| C.....18 |     | 59.06.0104   | 100 nF      | 10%, 63V, PETP                 | S.....1   |     | 55.19.0005   |             | Thermo switch, Tokin nr. OHD 3 - 90 BU   |
| C.....19 |     | 59.06.0682   | 6.8 nF      | 10%, 63V, PETP                 |           |     |              |             |  |
| C.....20 |     | 59.05.2332   | 3.3 nF      | 2.5%, 160V, PP                 | T....1    |     | 1.022.613.00 |             | Switching power transformer +5 V, /I\ St |
|          |     |              |             |                                | T....2    |     | 1.022.614.00 |             | Synch. Transformer                       |
| C....21  |     | 59.06.0332   | 3.3 nF      | 10%, 63V, PETP                 |           |     |              |             |  |
| C....22  |     | 59.06.0332   | 3.3 nF      | 10%, 63V, PETP                 | TP....1   |     | 54.02.0320   |             | Test point                               |
| C....23  |     | 59.28.2222   | 2200 uF     | 20%, 16V, E1                   | TP....2   |     | 54.02.0320   |             | Test point                               |
| C....24  |     | 59.28.2222   | 2200 uF     | 20%, 16V, E1                   |           |     |              |             |  |
| C....25  |     | 59.28.2222   | 2200 uF     | 20%, 16V, E1                   |           |     |              |             |  |
| C....26  |     | 59.28.2222   | 2200 uF     | 20%, 16V, E1                   |           |     |              |             |  |
| C....27  |     | 59.06.0105   | 1 uF        | 10%, 50V, PETP                 |           |     |              |             |  |
| C....28  |     | 59.31.6104   | 100 nF      | 10%, 100V, PETP                |           |     |              |             |  |
| C....29  |     | 59.06.0104   | 100 nF      | 10%, 63V, PETP                 |           |     |              |             |  |
| C....30  |     | 00.00.0000   | not used    |                                |           |     |              |             |  |
| C....31  |     | 00.00.0000   | not used    |                                |           |     |              |             |  |
| C....32  |     | 59.06.0332   | 3.3 nF      | 10%, 63V, PETP                 |           |     |              |             |  |
| C....33  |     | 59.06.0332   | 3.3 nF      | 10%, 63V, PETP                 |           |     |              |             |  |
| C....34  |     | 59.06.0103   | 10 nF       | 10%, 63V, PETP                 |           |     |              |             |  |
| C....35  |     | 59.99.1722   | 100 uF      | 20%, 100V, E1                  |           |     |              |             |  |
| D.....1  |     | 50.04.0520   | BYV 73-45,  | MBR 3045PT                     | Mot,Ph    |     |              |             |  |
| D.....2  |     | 50.04.0520   | BYV 73-45,  | MBR 3045PT                     | Mot,Ph    |     |              |             |  |
| D.....3  |     | 50.04.0138   | UF 4004     |                                |           |     |              |             |  |
| D.....4  |     | 50.04.0138   | UF 4004     |                                |           |     |              |             |  |
| D.....5  |     | 50.04.0138   | UF 4004     |                                |           |     |              |             |  |
| D.....6  |     | 50.04.1222   |             | 18V Z-Diode                    |           |     |              |             |  |
| D.....7  |     | 50.04.2109   | MV 5053     |                                |           |     |              |             |  |
| DLQ...1  |     | 50.04.3200   | CNY17-2     |                                |           |     |              |             |  |
| DLQ...2  |     | 50.04.2139   | MOC 3021    | Mot                            |           |     |              |             |  |
| IC....1  |     | 50.10.0113   | IP 3843N    | UC 3843N                       | IPS,Un    |     |              |             |  |
| IC....2  |     | 50.10.0106   | TL 431 CLP  |                                | Mot,TI    |     |              |             |  |
| IC....3  |     | 50.10.0106   | TL 431 CLP  |                                | Mot,TI    |     |              |             |  |
| IC....4  |     | 50.05.0286   | LH 358W     |                                | Mot       |     |              |             |  |
| IC....5  |     | 50.07.1046   | MC14046BPC  | ...                            | Not only  |     |              |             |  |
| L.....1  |     | 1.022.296.00 |             | Filter coil                    | St        |     |              |             |  |
| L.....2  |     | 1.022.611.00 |             | Choke +5V                      | St        |     |              |             |  |
| L.....3  |     | 1.022.612.00 |             | Common Mode Choke +5V          | St        |     |              |             |  |
| L.....4  |     | 62.03.0106   |             | Common Mode Choke, 0.6 mH, 6 A |           |     |              |             |  |
| P.....1  |     | 54.11.2015   |             | Euro Connector F, 3*16,        |           |     |              |             |  |
| Q....1   |     | 50.03.1612   | IRF P250    |                                | IR,Un,Sam |     |              |             |  |
| Q....2   |     | 50.03.0451   | BD 139      |                                | any       |     |              |             |  |
| Q....3   |     | 50.03.0601   | BC 560C     |                                | any       |     |              |             |  |
| R....1   |     | 57.11.3103   | 10 kOhm     | 1%                             |           |     |              |             |  |
| R....2   |     | 57.11.3103   | 10 kOhm     | 1%                             |           |     |              |             |  |
| R....3   |     | 57.11.3103   | 10 kOhm     | 1%                             |           |     |              |             |  |
| R....4   |     | 57.11.3332   | 3.3 kOhm    | 1%                             |           |     |              |             |  |
| R....5   |     | 58.01.9502   | 5 kOhm      | 10%, see note 1                |           |     |              |             |  |
| R....6   |     | 57.11.3103   | 10 kOhm     | 1%                             |           |     |              |             |  |
| R....7   |     | 57.11.3103   | 10 kOhm     | 1%                             |           |     |              |             |  |
| R....8   |     | 57.11.3103   | 10 kOhm     | 1%                             |           |     |              |             |  |
| R....9   |     | 57.11.3222   | 2.2 kOhm    | 1%                             |           |     |              |             |  |
| R....10  |     | 57.11.3154   | 150 kOhm    | 1%                             |           |     |              |             |  |
| R....11  |     | 57.11.3223   | 22 kOhm     | 1%                             |           |     |              |             |  |
| R....12  |     | 57.11.3109   | 1 Ohm       | 1%                             |           |     |              |             |  |
| R....13  |     | 57.11.3102   | 1 kOhm      | 1%                             |           |     |              |             |  |
| R....14  |     | 57.11.3473   | 47 kOhm     | 1%                             |           |     |              |             |  |
| R....15  |     | 57.56.2020   | 20 mOhm     | 5%, 3 W, Low Inductance        |           |     |              |             |  |
| R....16  |     | 57.11.3682   | 6.8 kOhm    | 1%                             |           |     |              |             |  |
| R....17  |     | 57.11.3123   | 12 kOhm     | 1%                             |           |     |              |             |  |
| R....18  |     | 57.11.3472   | 4.7 kOhm    | 1%                             |           |     |              |             |  |
| R....19  |     | 57.11.3683   | 68 kOhm     | 1%                             |           |     |              |             |  |
| R....20  |     | 57.11.3183   | 18 kOhm     | 1%                             |           |     |              |             |  |
| R....21  |     | 57.11.3273   | 27 kOhm     | 1%                             |           |     |              |             |  |
| R....22  |     | 57.11.3391   | 390 Ohm     | 1%                             |           |     |              |             |  |
| R....23  |     | 57.11.3102   | 1 kOhm      | 1%                             |           |     |              |             |  |
| R....24  |     | 57.11.3103   | 10 kOhm     | 1%                             |           |     |              |             |  |
| R....25  |     | 57.11.3391   | 390 Ohm     | 1%                             |           |     |              |             |  |
| R....26  |     | 58.01.9201   | 200 Ohm     | 10%, see note 2                |           |     |              |             |  |
| R....27  |     | 57.11.3391   | 390 Ohm     | 1%                             |           |     |              |             |  |
| R....28  |     | 57.11.3102   | 1 kOhm      | 1%                             |           |     |              |             |  |
| R....29  |     | 57.11.3102   | 1 kOhm      | 1%                             |           |     |              |             |  |
| R....30  |     | 57.11.3102   | 1 kOhm      | 1%                             |           |     |              |             |  |
| R....31  |     | 57.11.3472   | 4.7 kOhm    | 1%                             |           |     |              |             |  |
| R....32  |     | 57.11.3682   | 6.8 kOhm    | 1%                             |           |     |              |             |  |
| R....33  |     | 57.11.3321   | 330 Ohm     | 1%                             |           |     |              |             |  |
| R....34  |     | 57.11.3101   | 100 Ohm     | 1%                             |           |     |              |             |  |
| R....35  |     | 57.11.3562   | 5k6 kOhm    | 1%                             |           |     |              |             |  |
| R....36  |     | 57.11.3562   | 5k6 kOhm    | 1%                             |           |     |              |             |  |

/I\ = Increasing of safety relative to risk of fire.

Note 1 - Potentiometer, 5 kOhm: Bourns nr. 3386 X-1-502  
Spectrol nr. 63 X 502 T 010  
Murata nr. POT 3104 X-1-502

NOTE 2 - Potentiometer, 200 Ohm: Bourns nr. 3386 X-1-201  
Spectrol nr. 63 X 201 T 010  
Murata nr. POT 3104 X-1-201

E1=Electrolytic, MPETP=Metallized Polyesterfilm, PETP=Polyesterfilm, PP=Polypropylene, Sal=Solid aluminium, MPC=Metaalized Polycarbonate film.

MANUFACTURER: Fc=Fairchild, ITT=Intermetall, IR=International Rectifier, Mot=Motorola, NS=National Semiconductors, Ph=Philips, RCA=RCA Corp. of America, Ses=Sesocsem, SGS=SGS/Ates, Ste=Siemens, Six=Siliconix, St=Studer, Tf=Telefunken, Tho=Thomson CSF, Ti=Texas Instruments, To=Toshiba, GI=General Instruments.

1.862.601.81 STABILIZER + 5V /I\ GP 94/04/1800

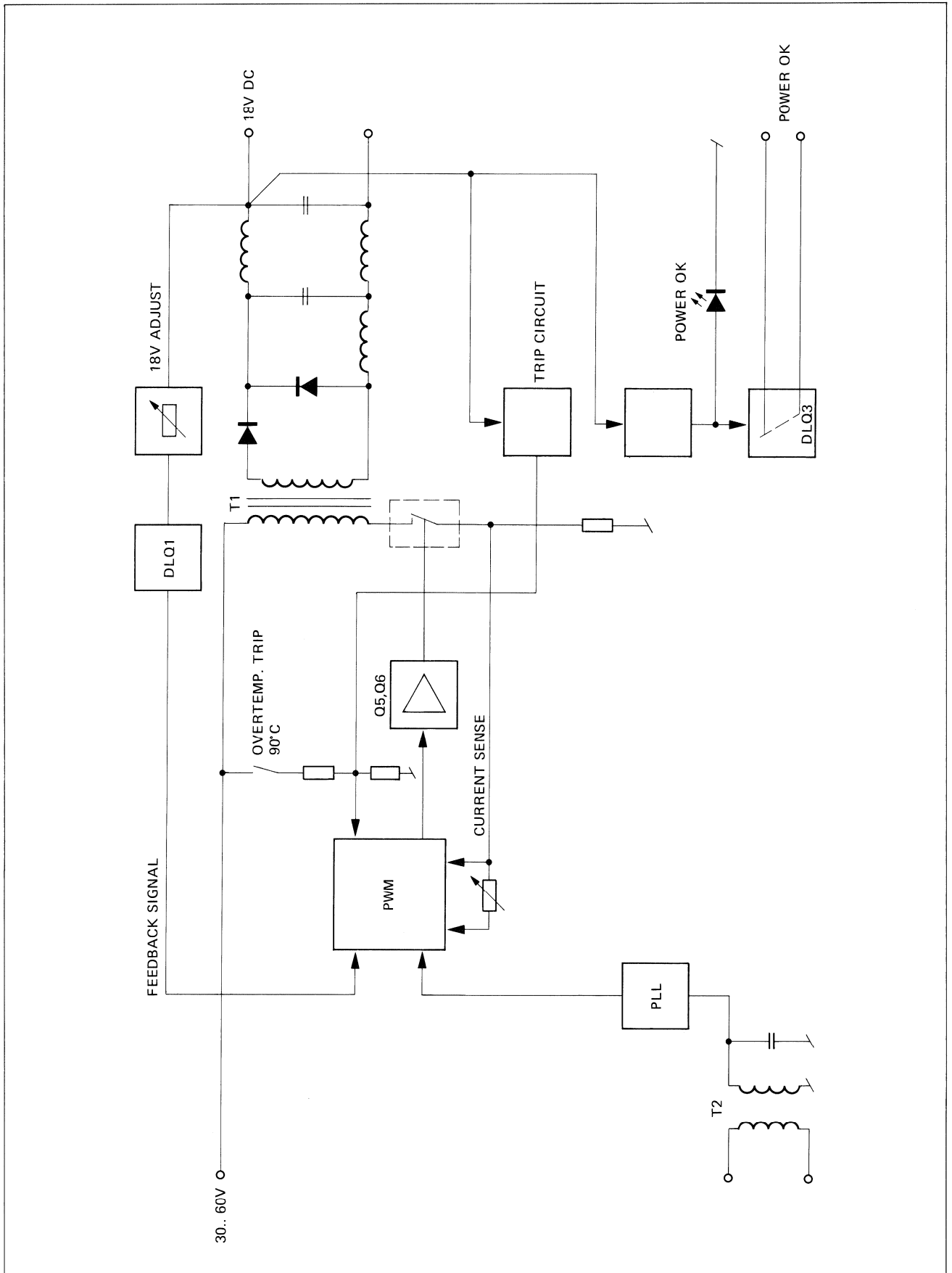
1.862.601.81 STABILIZER + 5V /I\ GP 94/08/3101

END

\*

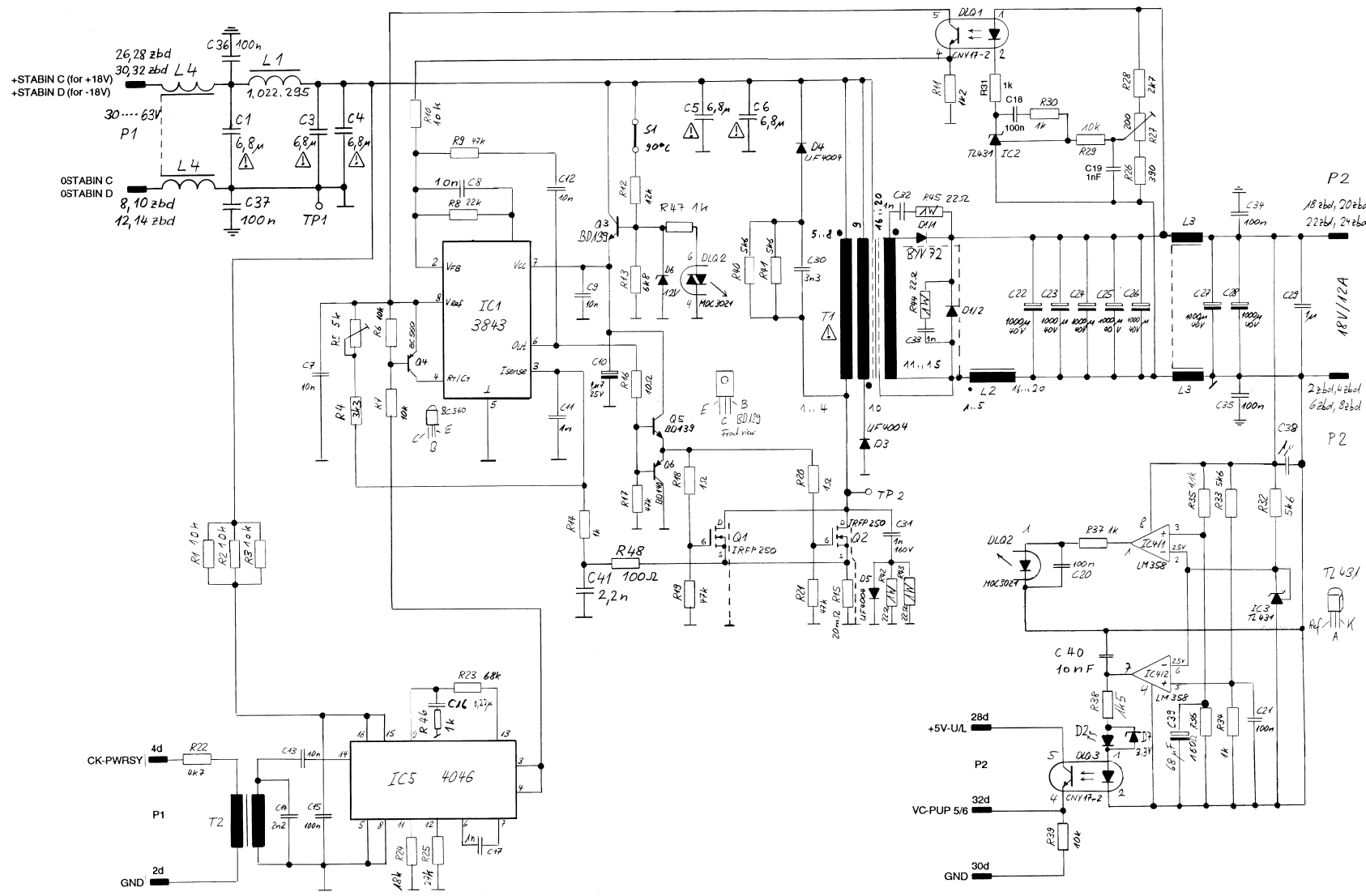
**BLOCK DIAGRAM**

Stabilizer 18V / 12A 1.862.600

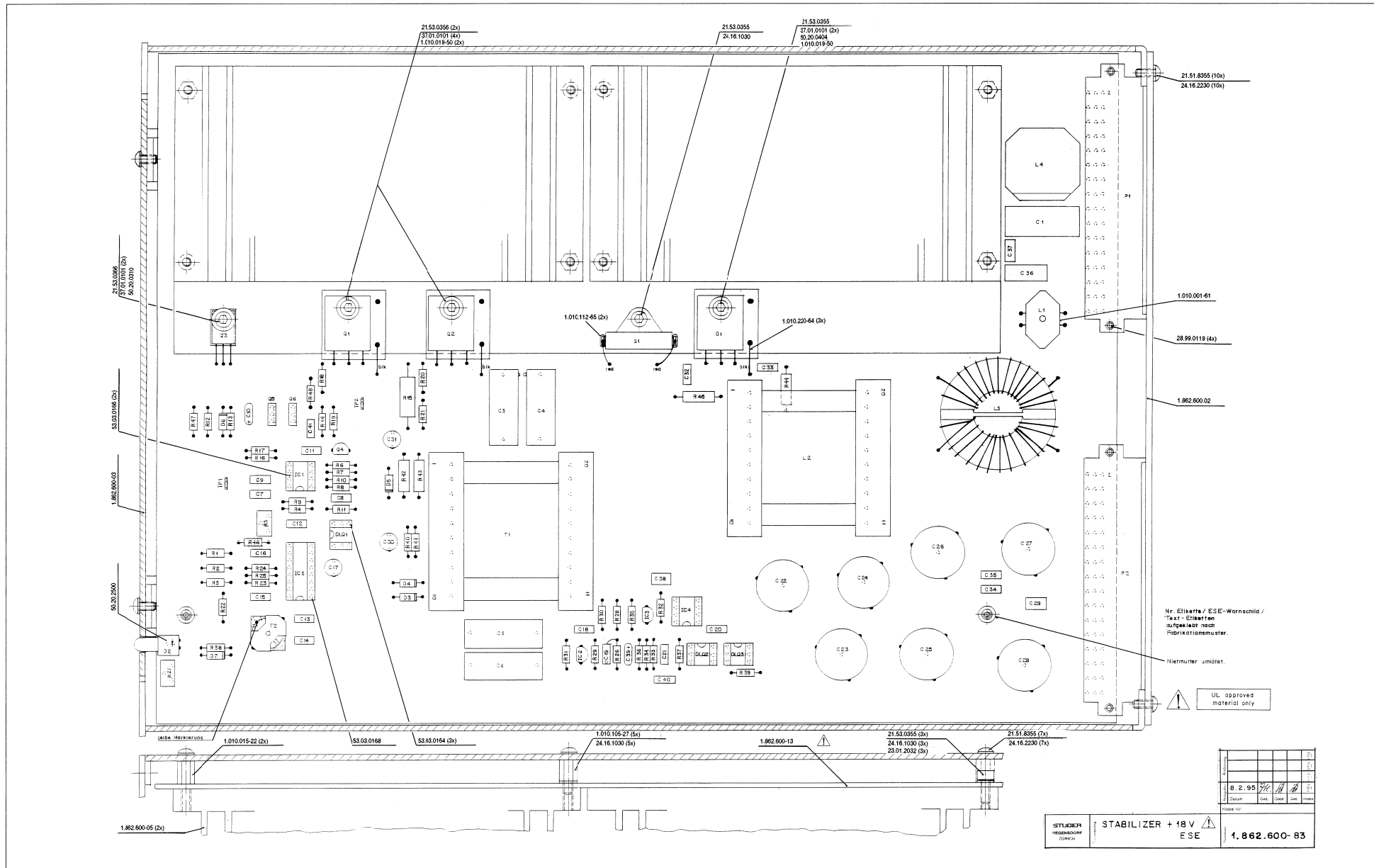




STABILIZER +18V / 12A PCM 1.862.600.83



STABILIZER +18V / 12A PCM 1.862.600.83



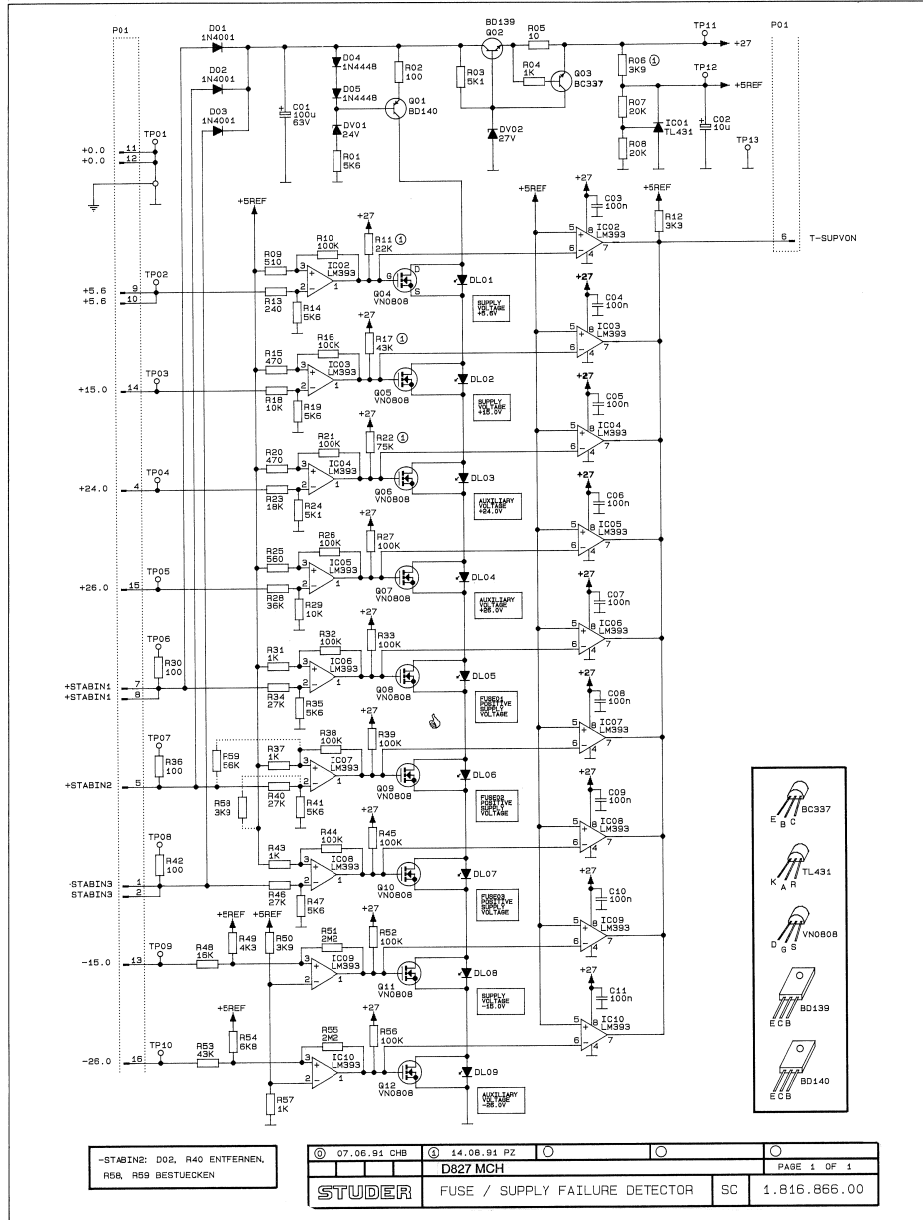


STABILIZER +18V / 12A PCM 1.862.600.83

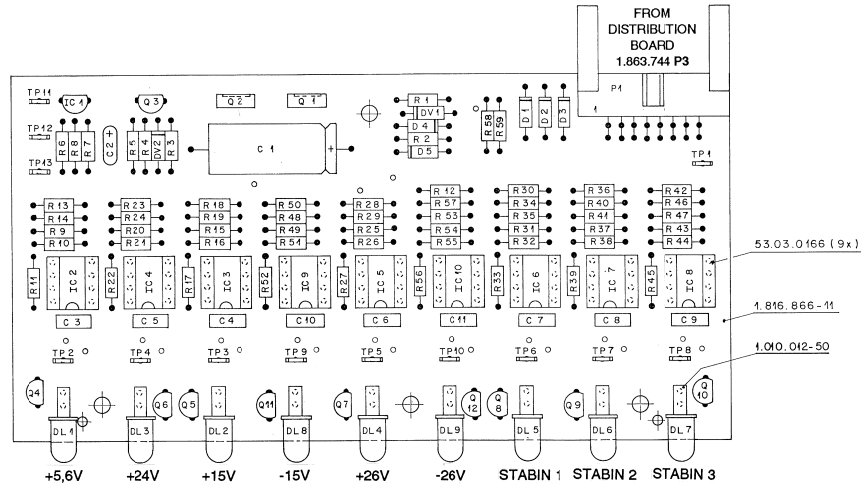
| Ad      | ..POS..      | ...REF.No... | DESCRIPTION.....        | MANUFACTURER | Ad   | ..POS..      | ...REF.No... | DESCRIPTION.....                          | MANUFACTURER |
|---------|--------------|--------------|-------------------------|--------------|--|--------------|--------------|---|--------------|
| C....1  | 59.02.0685   | 6.8 uF       | 10%, 63V, MPC, /!\      |              | R....27  | 58.01.9201   | 200 Ohm      | see note 2                                |              |
| C....3  | 59.02.0685   | 6.8 uF       | 10%, 63V, MPC, /!\      |              | R....28  | 57.11.3272   | 2.7 kOhm     | 1%  |              |
| C....4  | 59.02.0685   | 6.8 uF       | 10%, 63V, MPC, /!\      |              | R....29  | 57.11.3103   | 10 kOhm      | 1%  |              |
| C....5  | 59.02.0685   | 6.8 uF       | 10%, 63V, MPC, /!\      |              | R....30  | 57.11.3102   | 1 kOhm       | 1%  |              |
| C....6  | 59.02.0685   | 6.8 uF       | 10%, 63V, MPC, /!\      |              | R....31  | 57.11.3102   | 1 kOhm       | 1%  |              |
| C....7  | 59.06.0103   | 10 nF        | 10%, 63V, PETP          |              | R....32  | 57.11.3562   | 5.6 kOhm     | 1%  |              |
| C....8  | 59.06.0103   | 10 nF        | 10%, 63V, PETP          |              | R....33  | 57.11.3562   | 5.6 kOhm     | 1%  |              |
| C....9  | 59.06.0103   | 10 nF        | 10%, 63V, PETP          |              | R....34  | 57.11.3102   | 1 kOhm       | 1%  |              |
| C....10 | 59.26.5479   | 4.7 uF       | 20%, 25V, Sal           |              | R....35  | 57.11.3112   | 1.1 kOhm     | 1%  |              |
| C....11 | 59.06.0102   | 1 nF         | 10%, 63V, PETP          |              | R....36  | 57.11.3161   | 160 Ohm      | 1%  |              |
| C....12 | 59.06.0103   | 10 nF        | 10%, 63V, PETP          |              | R....37  | 57.11.3102   | 1 kOhm       | 1%  |              |
| C....13 | 59.06.0103   | 10 nF        | 10%, 63V, PETP          |              | R....38  | 57.11.3152   | 1.5 kOhm     | 1%  |              |
| C....14 | 59.06.0222   | 2.2 nF       | 10%, 63V, PETP          |              | R....39  | 57.11.3103   | 10 kOhm      | 1%  |              |
| C....15 | 59.06.0104   | 100 nF       | 10%, 63V, PETP          |              | R....40  | 57.11.3562   | 5.6 kOhm     | 1%  |              |
| C....16 | 59.06.0224   | 220 nF       | 10%, 63V, PETP          |              | R....41  | 57.11.3562   | 5.6 kOhm     | 1%  |              |
| C....17 | 59.05.2102   | 1 nF         | 2.5%, 63V, PP           |              | R....42  | 57.13.4220   | 22 Ohm       | 2%, 1W                                    |              |
| C....18 | 59.06.0104   | 100 nF       | 10%, 63V, PETP          |              | R....43  | 57.13.4220   | 22 Ohm       | 2%, 1W                                    |              |
| C....19 | 59.06.0102   | 1 nF         | 10%, 63V, PETP          |              | R....44  | 57.13.4220   | 22 Ohm       | 2%, 1W                                    |              |
| C....20 | 59.06.0104   | 100 nF       | 10%, 63V, PETP          |              | R....45  | 57.13.4220   | 22 Ohm       | 2%, 1W                                    |              |
| C....21 | 59.06.0104   | 100 nF       | 10%, 63V, PETP          |              | R....46  | 57.11.3102   | 1 kOhm       | 1%  |              |
| C....22 | 59.28.4102   | 1000 uF      | 20%, 40V, El            |              | R....47  | 57.11.3102   | 1 kOhm       | 1%  |              |
| C....23 | 59.28.4102   | 1000 uF      | 20%, 40V, El            |              | R....48  | 57.11.3101   | 100 Ohm      | 1%  |              |
| C....24 | 59.28.4102   | 1000 uF      | 20%, 40V, El            |              | S....1   | 55.19.0005   |              | Thermo switch, Tokin nr. OHD 3 - 90 BU    |              |
| C....25 | 59.28.4102   | 1000 uF      | 20%, 40V, El            |              | T....1   | 1.022.615.00 |              | Switching power transformer, 18 V, /!\ St |              |
| C....26 | 59.28.4102   | 1000 uF      | 20%, 40V, El            |              | T....2   | 1.022.614.00 |              | Synch. Transformer                        | St           |
| C....27 | 59.28.4102   | 1000 uF      | 20%, 40V, El            |              | TP....1  | 54.02.0320   |              | Test Point                                |              |
| C....28 | 59.28.4102   | 1000 uF      | 20%, 40V, El            |              | TP....2  | 54.02.0320   |              | Test Point                                |              |
| C....29 | 59.06.0105   | 1 uF         | 10%, 50V, PETP          |              | /\! = Increasing of safety relative to risk of fire.   |              |              |   |              |
| C....30 | 59.05.2332   | 3.3 nF       | 2.5%, 160V, PP          |              | Note 1 - Potentiometer, 5 kOhm: Bourns nr. 3386 X-1-502<br>Spectrol nr. 63 X 502 T 010<br>Murata nr. POT 3104 X-1-502  |              |              |   |              |
| C....31 | 59.05.2102   | 1 nF         | 2.5%, 630V, PP          |              | Note 2 - Potentiometer, 200 Ohm: Bourns nr. 3386 X-1-201<br>Spectrol nr. 63 X 201 T 010<br>Murata nr. POT 3104 X-1-201   |              |              |   |              |
| C....32 | 59.06.0102   | 1 nF         | 10%, 63V, PETP          |              | El=Electrolytic, MPETP=Metallized Polyesterfilm, PETP=Polyesterfilm,<br>PP=Polypropylene, Sal=Solid aluminium, MPC=Metallized Polycarbonate film.  |              |              |   |              |
| C....33 | 59.06.0102   | 1 nF         | 10%, 63V, PETP          |              | MANUFACTURER: Fc=Fairchild, ITT=Intermetall, IR=International Rectifier,<br>Mot=Motorola, NS=National Semiconductors, Ph=Philips,<br>RCA=RCA Corp. of America, Ses=Sesocsem, SGS=SGS/Ates,<br>Sie=Siemens, Six=Siliconix, St=Studer, Tf=Telefunken,<br>Tho=Thomson CSF, Ti=Texas Instruments, To=Toshiba,<br>GI=General Instruments. |              |              |   |              |
| C....34 | 59.06.0104   | 100 nF       | 10%, 63V, PETP          |              | 1.862.600.83 STABILIZER + 18V /\! GP 95/02/0800  |              |              |   |              |
| C....35 | 59.06.0104   | 100 nF       | 10%, 63V, PETP          |              | END  |              |              |   |              |
| C....36 | 59.31.6104   | 100 nF       | 10%, 100V, PETP         |              | ↓  |              |              |   |              |
| C....37 | 59.06.0104   | 100 nF       | 10%, 63V, PETP          |              | IPS,Un   |              |              |   |              |
| C....38 | 59.06.0105   | 1 uF         | 10%, 50V, PETP          |              | Mot,TI   |              |              |   |              |
| C....39 | 59.26.0680   | 68 uF        | 20%, 6.3V, Sal          |              | Mot,TI   |              |              |   |              |
| C....40 | 59.06.0103   | 10 nF        | 10%, 63V, PETP          |              | Mot  |              |              |   |              |
| C....41 | 59.06.0222   | 2.2 nF       | 10%, 63V, PETP          |              | Mot only   |              |              |   |              |
| D....1  | 50.04.0522   | BYV 72-100   | BYV 99P-100             |              | Filter coil  |              |              |   |              |
| D....2  | 50.04.2109   | MV 5053      |                         |              | St   |              |              |   |              |
| D....3  | 50.04.0138   | UF 4004      |                         |              | Choke Coil +18V  |              |              |   |              |
| D....4  | 50.04.0138   | UF 4004      |                         |              | St   |              |              |   |              |
| D....5  | 50.04.0138   | UF 4004      |                         |              | Netzfilter >1.0mH, 15A   |              |              |   |              |
| D....6  | 50.04.1222   |              | 18 V Z-Diode            |              | Netzfilter >0.6mH, 6A  |              |              |   |              |
| D....7  | 50.04.1107   |              | 3.3V Z-Diode            | 5%           | 0.4W   |              |              |   |              |
| DLQ...1 | 50.04.3200   | CNY17-2      |                         |              |  |              |              |   |              |
| DLQ...2 | 50.04.2139   | MOC 3021     |                         | Mot          |  |              |              |   |              |
| DLQ...3 | 50.04.3200   | CNY17-2      |                         |              |  |              |              |   |              |
| IC....1 | 50.10.0113   | IP 3843N     | UC 3843N                |              |  |              |              |   |              |
| IC....2 | 50.10.0106   | TL 431 CLP   |                         | IPS,Un       |  |              |              |   |              |
| IC....3 | 50.10.0106   | TL 431 CLP   |                         | Mot,TI       |  |              |              |   |              |
| IC....4 | 50.05.0286   | LW 358N      |                         | Mot,TI       |  |              |              |   |              |
| IC....5 | 50.07.1046   | MC14046BPC   |                         | Mot          |  |              |              |   |              |
| L....1  | 1.022.295.81 |              |                         | Mot only     |  |              |              |   |              |
| L....2  | 1.022.616.00 |              |                         |              |  |              |              |   |              |
| L....3  | 62.03.0115   |              |                         |              |  |              |              |   |              |
| L....4  | 62.03.0106   |              |                         |              |  |              |              |   |              |
| P....1  | 54.11.2015   |              | Euro Connector F, 3*16  |              |  |              |              |   |              |
| P....2  | 54.11.2015   |              | Euro Connector F, 3*16  |              |  |              |              |   |              |
| Q....1  | 50.03.1612   | IRF P250     |                         |              |  |              |              |   |              |
| Q....2  | 50.03.1612   | IRF P250     |                         |              |  |              |              |   |              |
| Q....3  | 50.03.0451   | BD 139       |                         |              |  |              |              |   |              |
| Q....4  | 50.03.0601   | BC 560C      |                         |              |  |              |              |   |              |
| Q....5  | 50.03.0451   | BD 139       |                         |              |  |              |              |   |              |
| Q....6  | 50.03.0452   | BD 140       |                         |              |  |              |              |   |              |
| R....1  | 57.11.3103   | 10 kOhm      | 1%                      |              |  |              |              |   |              |
| R....2  | 57.11.3103   | 10 kOhm      | 1%                      |              |  |              |              |   |              |
| R....3  | 57.11.3103   | 10 kOhm      | 1%                      |              |  |              |              |   |              |
| R....4  | 57.11.3332   | 3.3 kOhm     | 1%                      |              |  |              |              |   |              |
| R....5  | 58.01.9502   | 5 kOhm       | see note 1              |              |  |              |              |   |              |
| R....6  | 57.11.3103   | 10 kOhm      | 1%                      |              |  |              |              |   |              |
| R....7  | 57.11.3103   | 10 kOhm      | 1%                      |              |  |              |              |   |              |
| R....8  | 57.11.3223   | 22 kOhm      | 1%                      |              |  |              |              |   |              |
| R....9  | 57.11.3473   | 47 kOhm      | 1%                      |              |  |              |              |   |              |
| R....10 | 57.11.3103   | 10 kOhm      | 1%                      |              |  |              |              |   |              |
| R....11 | 57.11.3122   | 1.2 kOhm     | 1%                      |              |  |              |              |   |              |
| R....12 | 57.11.3123   | 12 kOhm      | 1%                      |              |  |              |              |   |              |
| R....13 | 57.11.3682   | 6.8 kOhm     | 1%                      |              |  |              |              |   |              |
| R....14 | 57.11.3102   | 1 kOhm       | 1%                      |              |  |              |              |   |              |
| R....15 | 57.56.2020   | 20 mOhm      | 5%, 3 W, Low Inductance |              |  |              |              |   |              |
| R....16 | 57.11.3100   | 10 Ohm       | 1%                      |              |  |              |              |   |              |
| R....17 | 57.11.3473   | 47 kOhm      | 1%                      |              |  |              |              |   |              |
| R....18 | 57.11.3109   | 1 Ohm        | 1%                      |              |  |              |              |   |              |
| R....19 | 57.11.3473   | 47 kOhm      | 1%                      |              |  |              |              |   |              |
| R....20 | 57.11.3109   | 1 Ohm        | 1%                      |              |  |              |              |   |              |
| R....21 | 57.11.3473   | 47 kOhm      | 1%                      |              |  |              |              |   |              |
| R....22 | 57.11.3472   | 4.7 kOhm     | 1%                      |              |  |              |              |   |              |
| R....23 | 57.11.3683   | 68 kOhm      | 1%                      |              |  |              |              |   |              |
| R....24 | 57.11.3183   | 18 kOhm      | 1%                      |              |  |              |              |   |              |
| R....25 | 57.11.3273   | 27 kOhm      | 1%                      |              |  |              |              |   |              |
| R....26 | 57.11.3391   | 390 Ohm      | 1%                      |              |  |              |              |   |              |



FUSE / SUPPLY FAILURE DETECTOR 1.816.866.00



FUSE / SUPPLY FAILURE DETECTOR 1.816.866.00

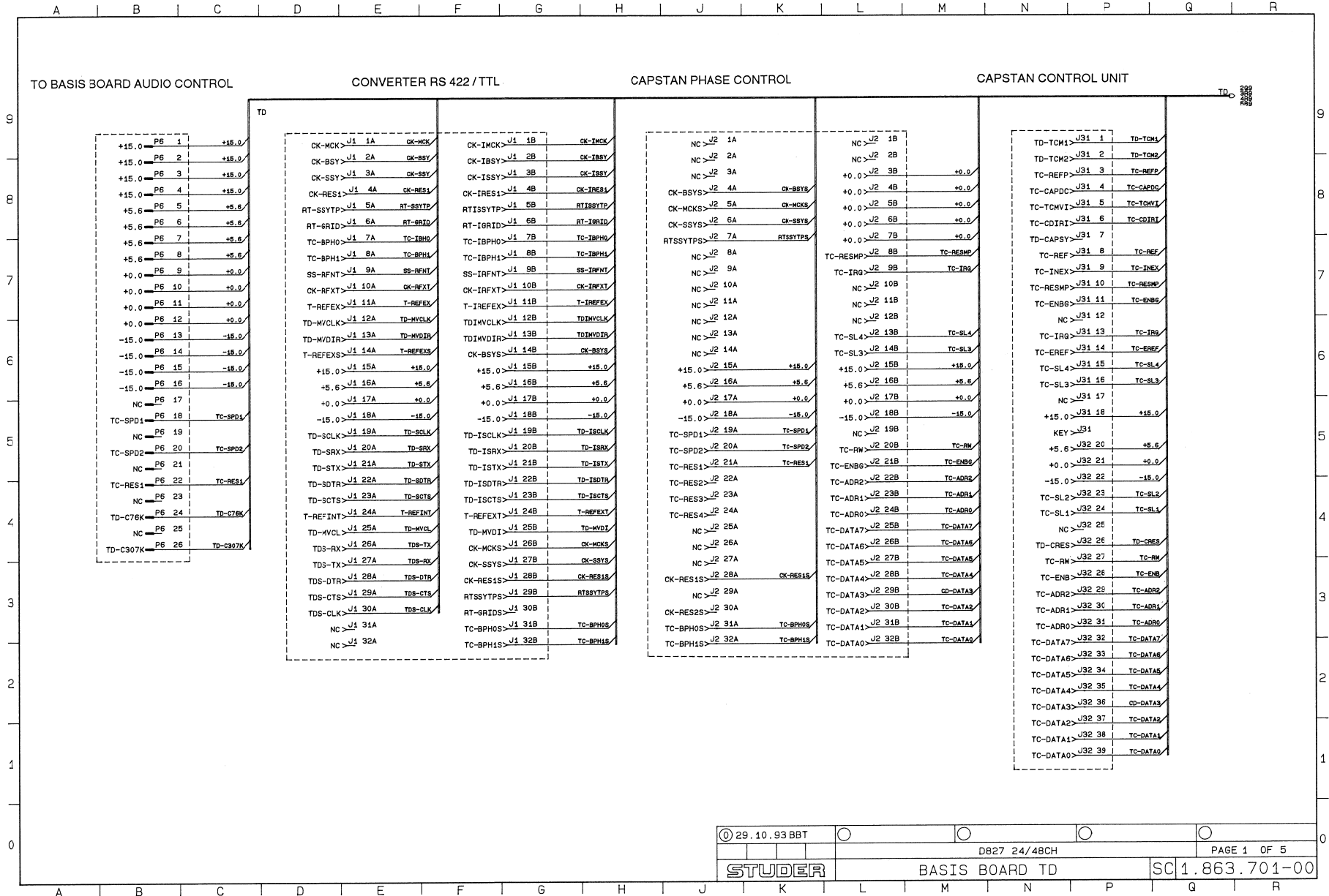


| Ad       | POS.       | REF. No. | DESCRIPTION           | MANUFACTURER              | Ad       | POS.       | REF. No.  | DESCRIPTION | MANUFACTURER |
|----------|------------|----------|-----------------------|---------------------------|----------|------------|-----------|-------------|--------------|
| C....1   | 59.25.6101 | 100 uF   | -20%, 63 V, EL        |                           | R....42  | 57.11.3101 | 100 Ohm   | 5%          |              |
| C....2   | 59.26.2100 | 10 uF    | 20%, 16 V, Sa1        | Ph                        | R....43  | 57.11.3102 | 1 kOhm    | 5%          |              |
| C....3   | 59.06.0104 | 100 nF   | 10%, PETP             |                           | R....44  | 57.11.3104 | 100 kOhm  | 5%          |              |
| C....4   | 59.06.0104 | 100 nF   | 10%, PETP             |                           | R....45  | 57.11.3104 | 100 kOhm  | 5%          |              |
| C....5   | 59.06.0104 | 100 nF   | 10%, PETP             |                           | R....46  | 57.11.3273 | 27 kOhm   | 1%          |              |
| C....6   | 59.06.0104 | 100 nF   | 10%, PETP             |                           | R....47  | 57.11.3562 | 5.6 kOhm  | 1%          |              |
| C....7   | 59.06.0104 | 100 nF   | 10%, PETP             |                           | R....48  | 57.11.3163 | 16 kOhm   | 1%          |              |
| C....8   | 59.06.0104 | 100 nF   | 10%, PETP             |                           | R....49  | 57.11.3432 | 4.3 kOhm  | 1%          |              |
| C....9   | 59.06.0104 | 100 nF   | 10%, PETP             |                           | R....50  | 57.11.3392 | 3.9 kOhm  | 1%          |              |
| C....10  | 59.06.0104 | 100 nF   | 10%, PETP             |                           | R....51  | 57.11.5225 | 2.2 MOhm  | 5%          |              |
| C....11  | 59.06.0104 | 100 nF   | 10%, PETP             |                           | R....52  | 57.11.3104 | 100 kOhm  | 1%          |              |
| D....1   | 50.04.0122 | 1N 4001  | ... 1N 4004           | GI_Mot                    | R....53  | 57.11.3433 | 43 kOhm   | 1%          |              |
| D....2   | 50.04.0122 | 1N 4001  | ... 1N 4004           | GI_Mot                    | R....54  | 57.11.3682 | 6.8 kOhm  | 1%          |              |
| D....3   | 50.04.0122 | 1N 4001  | ... 1N 4004           | GI_Mot                    | R....55  | 57.11.5225 | 2.2 MOhm  | 5%          |              |
| D....4   | 50.04.0125 | 1N 4448  | ...                   | Fc,ITT,Ph,Tf              | R....56  | 57.11.3104 | 100 kOhm  | 5%          |              |
| D....5   | 50.04.0125 | 1N 4448  | ...                   | Fc,ITT,Ph,Tf              | R....57  | 57.11.3102 | 1 kOhm    | 1%          |              |
| DL....1  | 50.04.2113 | MV 5453  | CM 4-384 B, HLMP-3507 | GI_HP                     | R....58  | .. 0       | not used  |             |              |
| DL....2  | 50.04.2113 | MV 5453  | CM 4-384 B, HLMP-3507 | GI_HP                     | R....59  | .. 0       | not used  |             |              |
| DL....3  | 50.04.2113 | MV 5453  | CM 4-384 B, HLMP-3507 | GI_HP                     | TP....1  | 54.02.0320 | Testpoint |             |              |
| DL....4  | 50.04.2113 | MV 5453  | CM 4-384 B, HLMP-3507 | GI_HP                     | TP....2  | 54.02.0320 | Testpoint |             |              |
| DL....5  | 50.04.2113 | MV 5453  | CM 4-384 B, HLMP-3507 | GI_HP                     | TP....3  | 54.02.0320 | Testpoint |             |              |
| DL....6  | 50.04.2113 | MV 5453  | CM 4-384 B, HLMP-3507 | GI_HP                     | TP....4  | 54.02.0320 | Testpoint |             |              |
| DL....7  | 50.04.2113 | MV 5453  | CM 4-384 B, HLMP-3507 | GI_HP                     | TP....5  | 54.02.0320 | Testpoint |             |              |
| DL....8  | 50.04.2113 | MV 5453  | CM 4-384 B, HLMP-3507 | GI_HP                     | TP....6  | 54.02.0320 | Testpoint |             |              |
| DL....9  | 50.04.2113 | MV 5453  | CM 4-384 B, HLMP-3507 | GI_HP                     | TP....7  | 54.02.0320 | Testpoint |             |              |
| DV....1  | 50.04.1121 | 24V, 5%  | .40W, Z,              |                           | TP....8  | 54.02.0320 | Testpoint |             |              |
| DV....2  | 50.04.1156 | 27V, 5%  | .40W, Z,              |                           | TP....9  | 54.02.0320 | Testpoint |             |              |
| IC....1  | 50.10.0106 | TL431CLP |                       | Mot, TI                   | TP....10 | 54.02.0320 | Testpoint |             |              |
| IC....2  | 50.05.0283 | LM 393 N | LM 393 P              | TI, NS                    | TP....11 | 54.02.0320 | Testpoint |             |              |
| IC....3  | 50.05.0283 | LM 393 N | LM 393 P              | TI, NS                    | TP....12 | 54.02.0320 | Testpoint |             |              |
| IC....4  | 50.05.0283 | LM 393 N | LM 393 P              | TI, NS                    | TP....13 | 54.02.0320 | Testpoint |             |              |
| IC....5  | 50.05.0283 | LM 393 N | LM 393 P              | TI, NS                    |          |            |           |             |              |
| IC....6  | 50.05.0283 | LM 393 N | LM 393 P              | TI, NS                    |          |            |           |             |              |
| IC....7  | 50.05.0283 | LM 393 N | LM 393 P              | TI, NS                    |          |            |           |             |              |
| IC....8  | 50.05.0283 | LM 393 N | LM 393 P              | TI, NS                    |          |            |           |             |              |
| IC....9  | 50.05.0283 | LM 393 N | LM 393 P              | TI, NS                    |          |            |           |             |              |
| IC....10 | 50.05.0283 | LM 393 N | LM 393 P              | TI, NS                    |          |            |           |             |              |
| P.....1  | 54.14.2112 |          | Winkelstecker 16P     |                           |          |            |           |             |              |
| Q....1   | 50.03.0452 | BD 140   |                       | Mot, Ph, SGS, Tf, To      |          |            |           |             |              |
| Q....2   | 50.03.0451 | BD 139   |                       | Tho, Mot, Ph, SGS, Tf, To |          |            |           |             |              |
| Q....3   | 50.03.0516 | 337 E    | Si                    |                           |          |            |           |             |              |
| Q....4   | 50.03.1505 | VN 0808M | ZVNO108               |                           |          |            |           |             |              |
| Q....5   | 50.03.1505 | VN 0808M | ZVNO108               |                           |          |            |           |             |              |
| Q....6   | 50.03.1505 | VN 0808M | ZVNO108               |                           |          |            |           |             |              |
| Q....7   | 50.03.1505 | VN 0808M | ZVNO108               |                           |          |            |           |             |              |
| Q....8   | 50.03.1505 | VN 0808M | ZVNO108               |                           |          |            |           |             |              |
| Q....9   | 50.03.1505 | VN 0808M | ZVNO108               |                           |          |            |           |             |              |
| Q....10  | 50.03.1505 | VN 0808M | ZVNO108               |                           |          |            |           |             |              |
| Q....11  | 50.03.1505 | VN 0808M | ZVNO108               |                           |          |            |           |             |              |
| Q....12  | 50.03.1505 | VN 0808M | ZVNO108               |                           |          |            |           |             |              |
| R....1   | 57.11.3562 | 5.6 kOhm | 5%                    |                           |          |            |           |             |              |
| R....2   | 57.11.3101 | 100 Ohm  | 5%                    |                           |          |            |           |             |              |
| R....3   | 57.11.3512 | 5.1 kOhm | 5%                    |                           |          |            |           |             |              |
| R....4   | 57.11.3102 | 1 kOhm   | 5%                    |                           |          |            |           |             |              |
| R....5   | 57.11.3100 | 10 Ohm   | 5%                    |                           |          |            |           |             |              |
| R....6   | 57.11.3512 | 5.1 kOhm | 5%                    |                           |          |            |           |             |              |
| R....7   | 57.11.3203 | 20 kOhm  | 5%                    |                           |          |            |           |             |              |
| R....8   | 57.11.3203 | 20 kOhm  | 5%                    |                           |          |            |           |             |              |
| R....9   | 57.11.3511 | 510 Ohm  | 1%                    |                           |          |            |           |             |              |
| R....10  | 57.11.3104 | 100 kOhm | 5%                    |                           |          |            |           |             |              |
| R....11  | 57.11.3104 | 100 kOhm | 5%                    |                           |          |            |           |             |              |
| R....12  | 57.11.3223 | 22 kOhm  | 5%                    |                           |          |            |           |             |              |
| R....13  | 57.11.3332 | 3.3 kOhm | 5%                    |                           |          |            |           |             |              |
| R....14  | 57.11.3241 | 240 Ohm  | 1%                    |                           |          |            |           |             |              |
| R....15  | 57.11.3562 | 5.6 kOhm | 1%                    |                           |          |            |           |             |              |
| R....16  | 57.11.3471 | 470 Ohm  | 1%                    |                           |          |            |           |             |              |
| R....17  | 57.11.3104 | 100 kOhm | 5%                    |                           |          |            |           |             |              |
| R....18  | 57.11.3104 | 100 kOhm | 5%                    |                           |          |            |           |             |              |
| R....19  | 57.11.3433 | 43 kOhm  | 5%                    |                           |          |            |           |             |              |
| R....20  | 57.11.3103 | 10 kOhm  | 1%                    |                           |          |            |           |             |              |
| R....21  | 57.11.3562 | 5.6 kOhm | 1%                    |                           |          |            |           |             |              |
| R....22  | 57.11.3471 | 470 Ohm  | 1%                    |                           |          |            |           |             |              |
| R....23  | 57.11.3104 | 100 kOhm | 5%                    |                           |          |            |           |             |              |
| R....24  | 57.11.3104 | 100 kOhm | 5%                    |                           |          |            |           |             |              |
| R....25  | 57.11.3512 | 5.1 kOhm | 1%                    |                           |          |            |           |             |              |
| R....26  | 57.11.3561 | 560 Ohm  | 1%                    |                           |          |            |           |             |              |
| R....27  | 57.11.3104 | 100 kOhm | 5%                    |                           |          |            |           |             |              |
| R....28  | 57.11.3104 | 100 kOhm | 5%                    |                           |          |            |           |             |              |
| R....29  | 57.11.3103 | 10 kOhm  | 1%                    |                           |          |            |           |             |              |
| R....30  | 57.11.3101 | 100 Ohm  | 5%                    |                           |          |            |           |             |              |
| R....31  | 57.11.3102 | 1 kOhm   | 1%                    |                           |          |            |           |             |              |
| R....32  | 57.11.3104 | 100 kOhm | 5%                    |                           |          |            |           |             |              |
| R....33  | 57.11.3104 | 100 kOhm | 5%                    |                           |          |            |           |             |              |
| R....34  | 57.11.3273 | 27 kOhm  | 1%                    |                           |          |            |           |             |              |
| R....35  | 57.11.3562 | 5.6 kOhm | 1%                    |                           |          |            |           |             |              |
| R....36  | 57.11.3101 | 100 Ohm  | 5%                    |                           |          |            |           |             |              |
| R....37  | 57.11.3102 | 1 kOhm   | 1%                    |                           |          |            |           |             |              |
| R....38  | 57.11.3104 | 100 kOhm | 5%                    |                           |          |            |           |             |              |
| R....39  | 57.11.3104 | 100 kOhm | 5%                    |                           |          |            |           |             |              |
| R....40  | 57.11.3273 | 27 kOhm  | 1%                    |                           |          |            |           |             |              |
| R....41  | 57.11.3562 | 5.6 kOhm | 1%                    |                           |          |            |           |             |              |

|                              |  |                        |
|------------------------------|--|------------------------|
| STUDER<br>REGSDORF<br>ZÜRICH | Bemerkung<br>FUSE / SUPPLY<br>FAILURE DETECTOR ESE | Nummer<br>1.816.866-00 |
|------------------------------|--|------------------------|



BASIS BOARD TAPE DECK 1.863.701.00



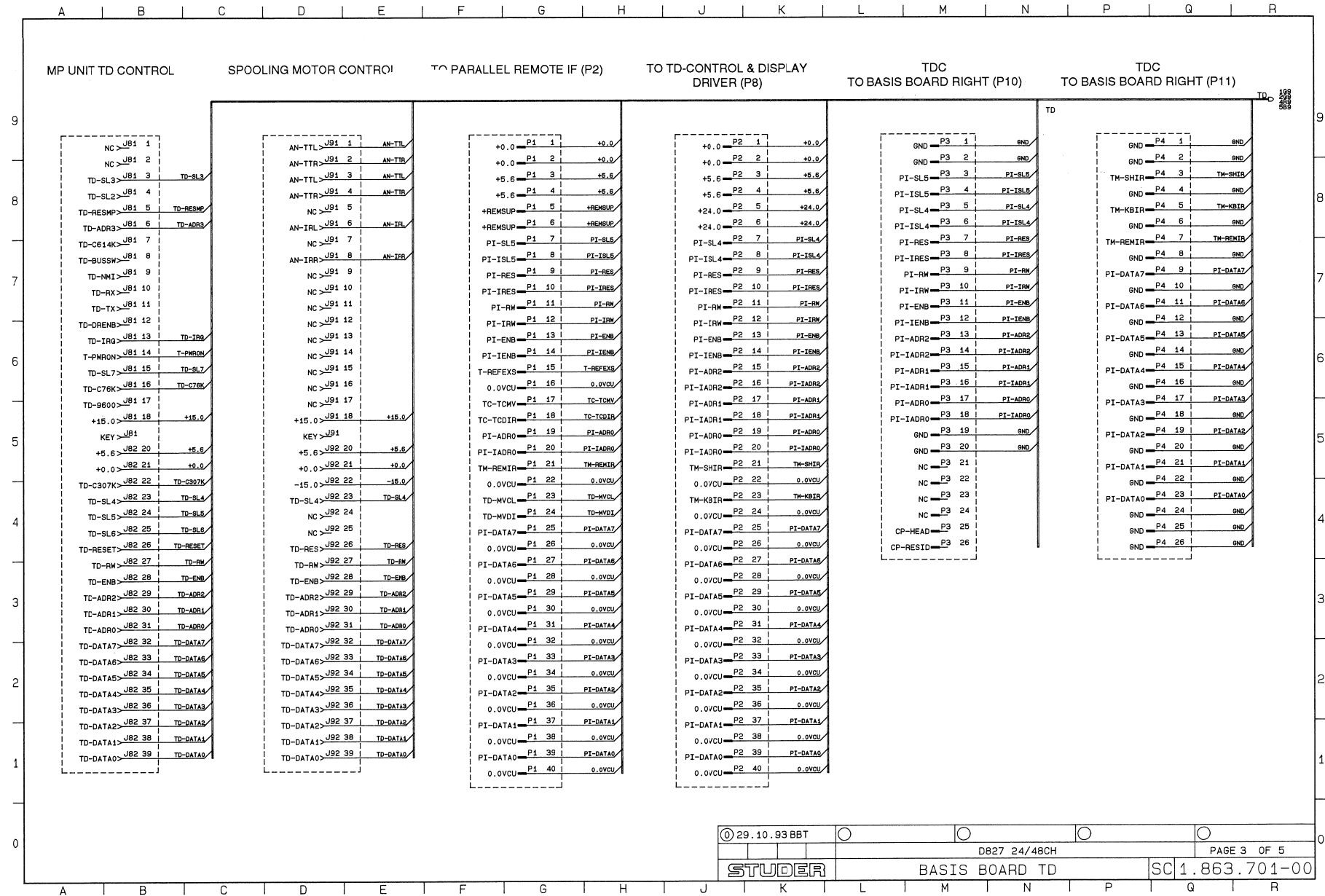
29. 10. 93 BBT     
      
      

D827 24/48CH      PAGE 1 OF 5

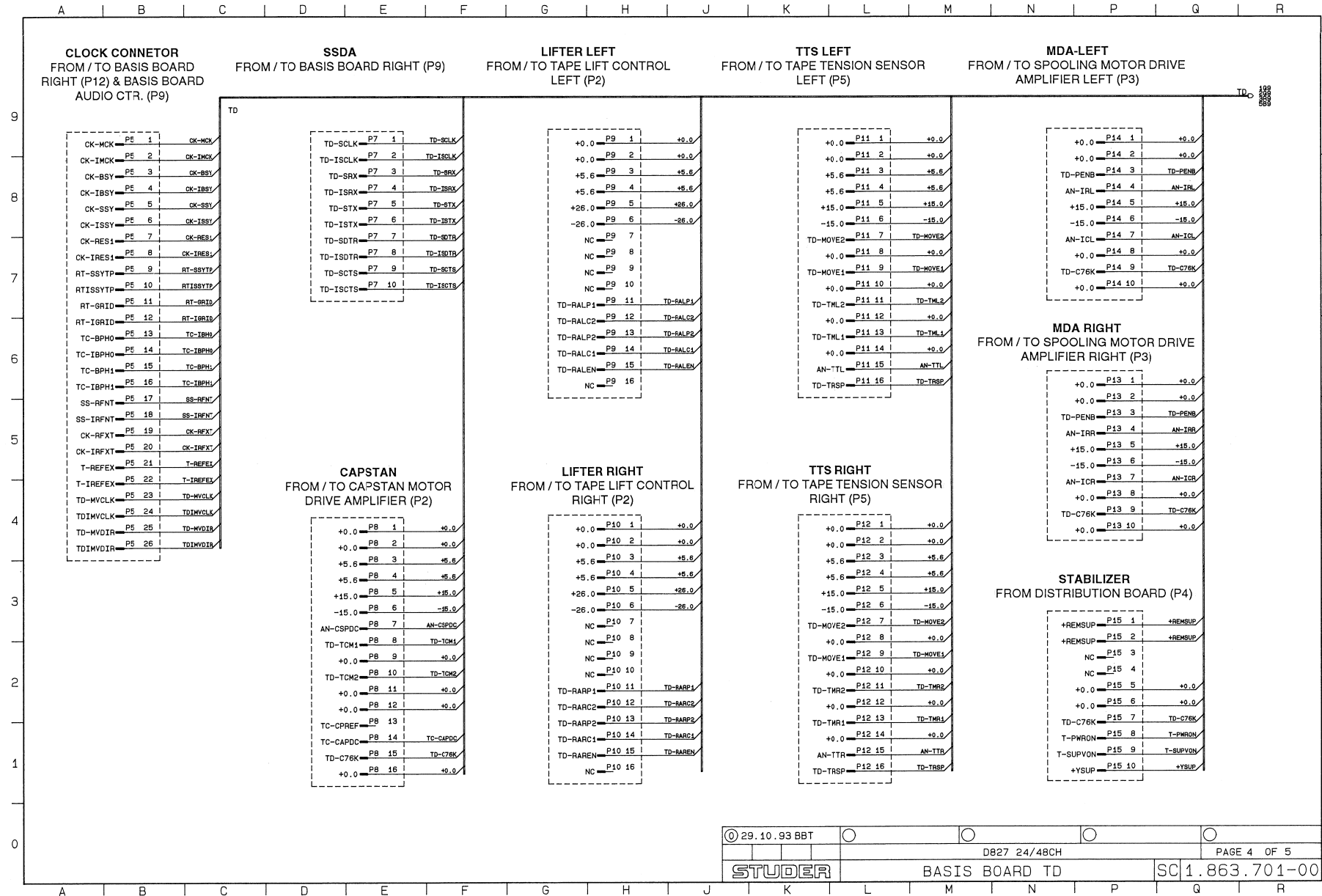
**STUDER**      BASIS BOARD TD      SC 1.863.701-00



BASIS BOARD TAPE DECK 1.863.701.00

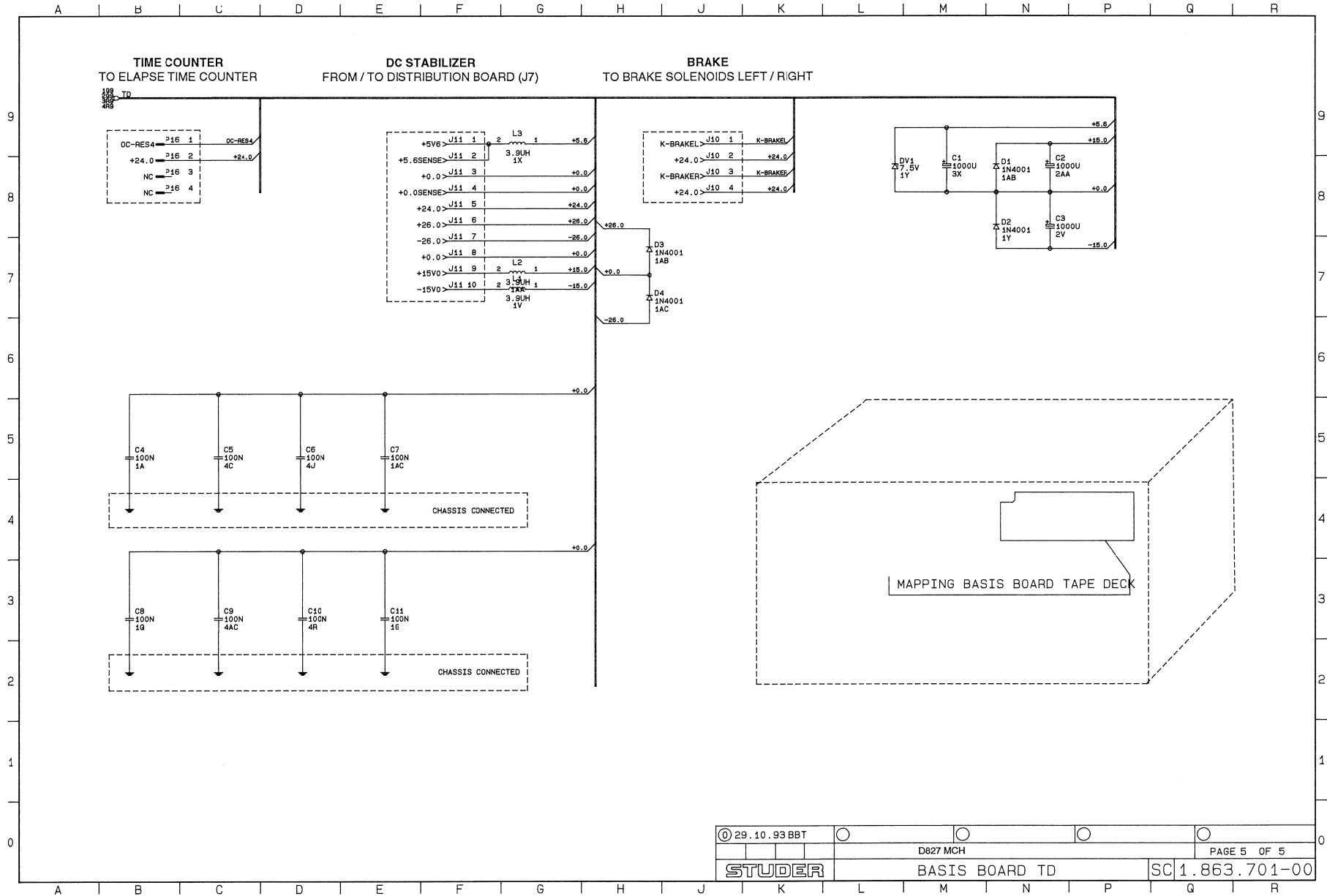


BASIS BOARD TAPE DECK 1.863.701.00



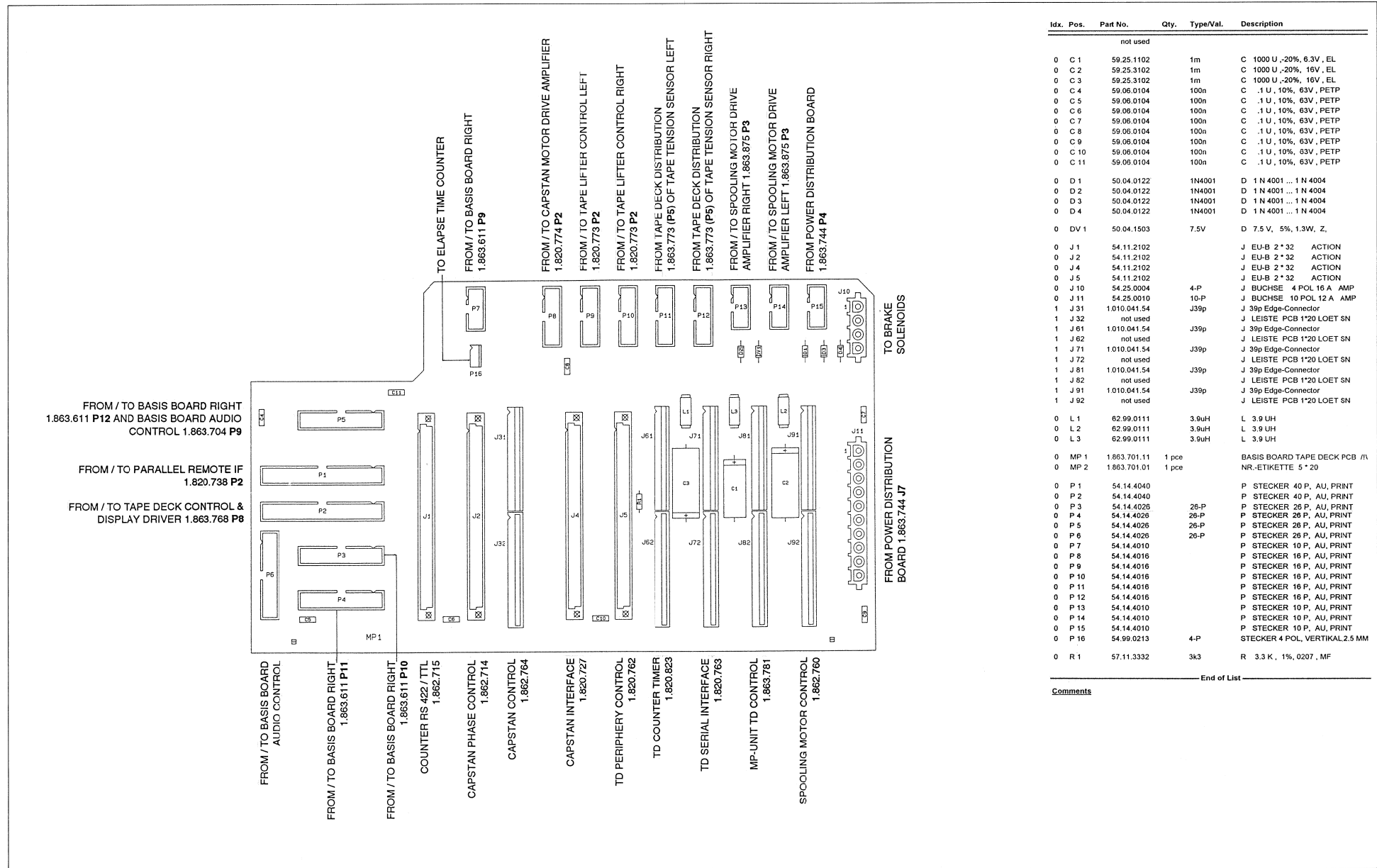
STUDER D827 MCH

BASIS BOARD TAPE DECK 1.863.701.00



|                |                |          |  |                 |
|----------------|----------------|----------|--|-----------------|
| © 29.10.93 BBT |                |          |  |                 |
|                |                | D827 MCH |  | PAGE 5 OF 5     |
| STUDER         | BASIS BOARD TD |          |  | SC 1.863.701-00 |

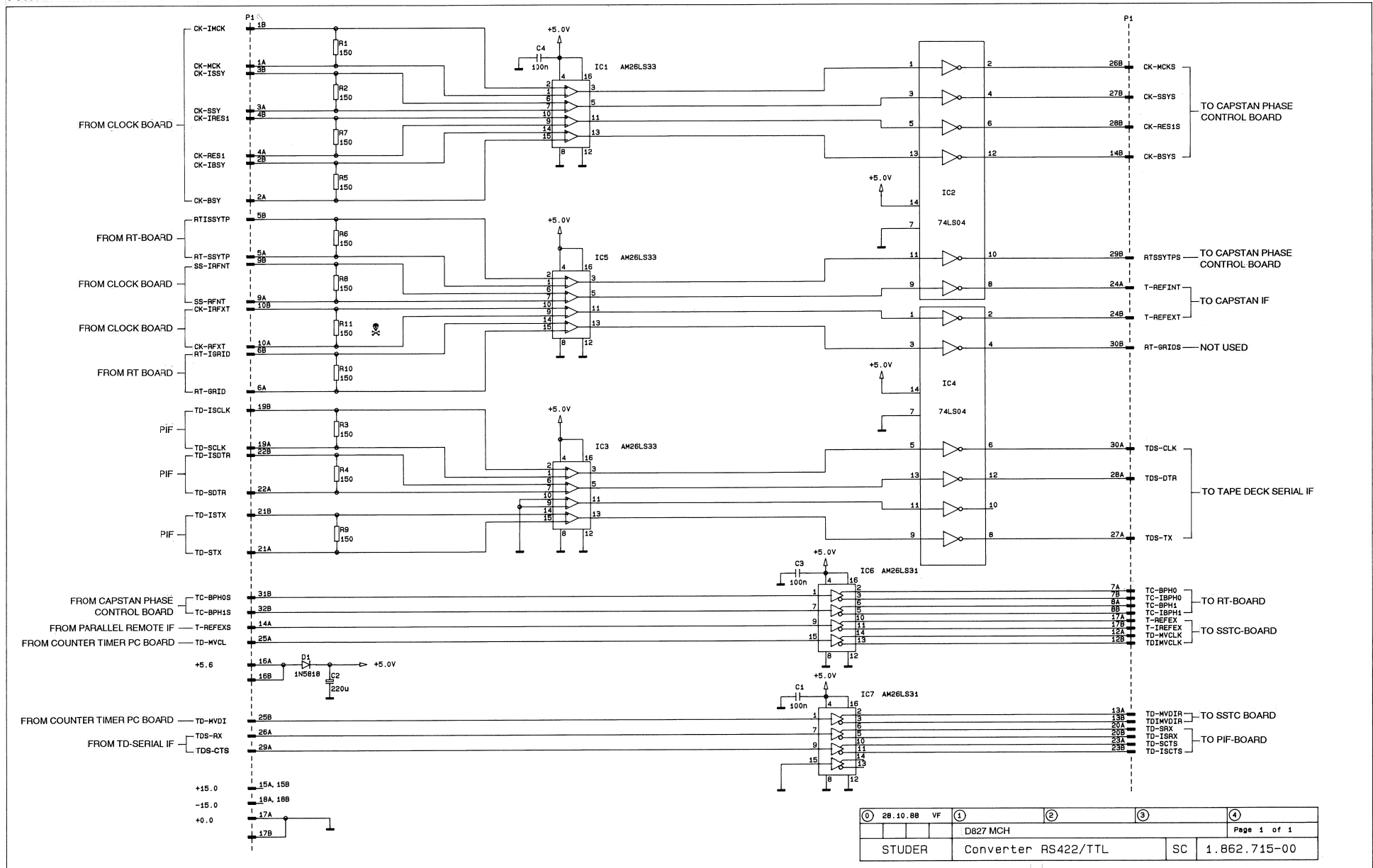
BASIS BOARD TAPE DECK 1.863.701.00



# STUDER D827 MCH

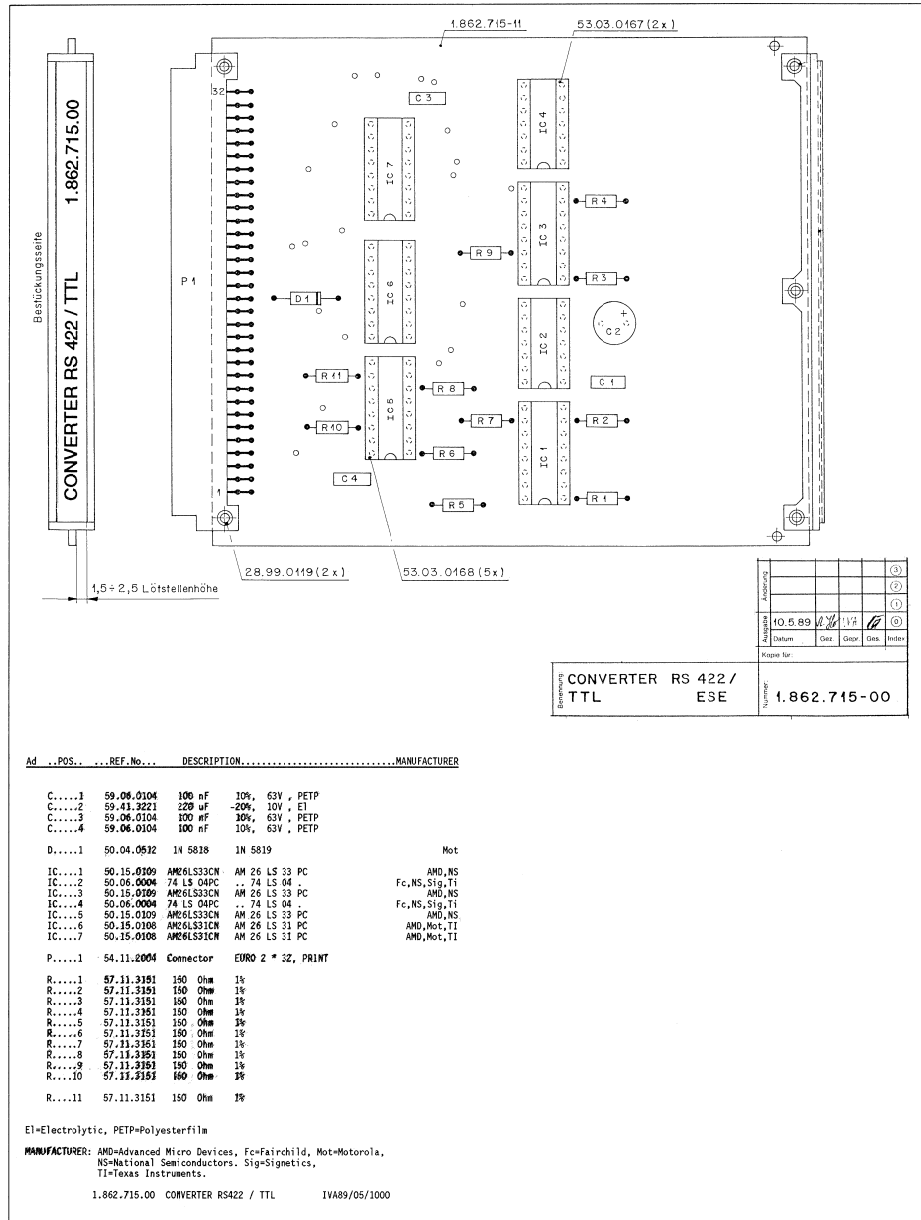


CONVERTER RS422 / TTL 1.862.715.00



|                     |          |    |          |              |             |   |
|---------------------|----------|----|----------|--------------|-------------|---|
| ①                   | 28.10.88 | VF | ①        | ②            | ③           | ④ |
| STUDER              |          |    | D827 MCH |              | Page 1 of 1 |   |
| Converter RS422/TTL |          |    | SC       | 1.862.715-00 |             |   |

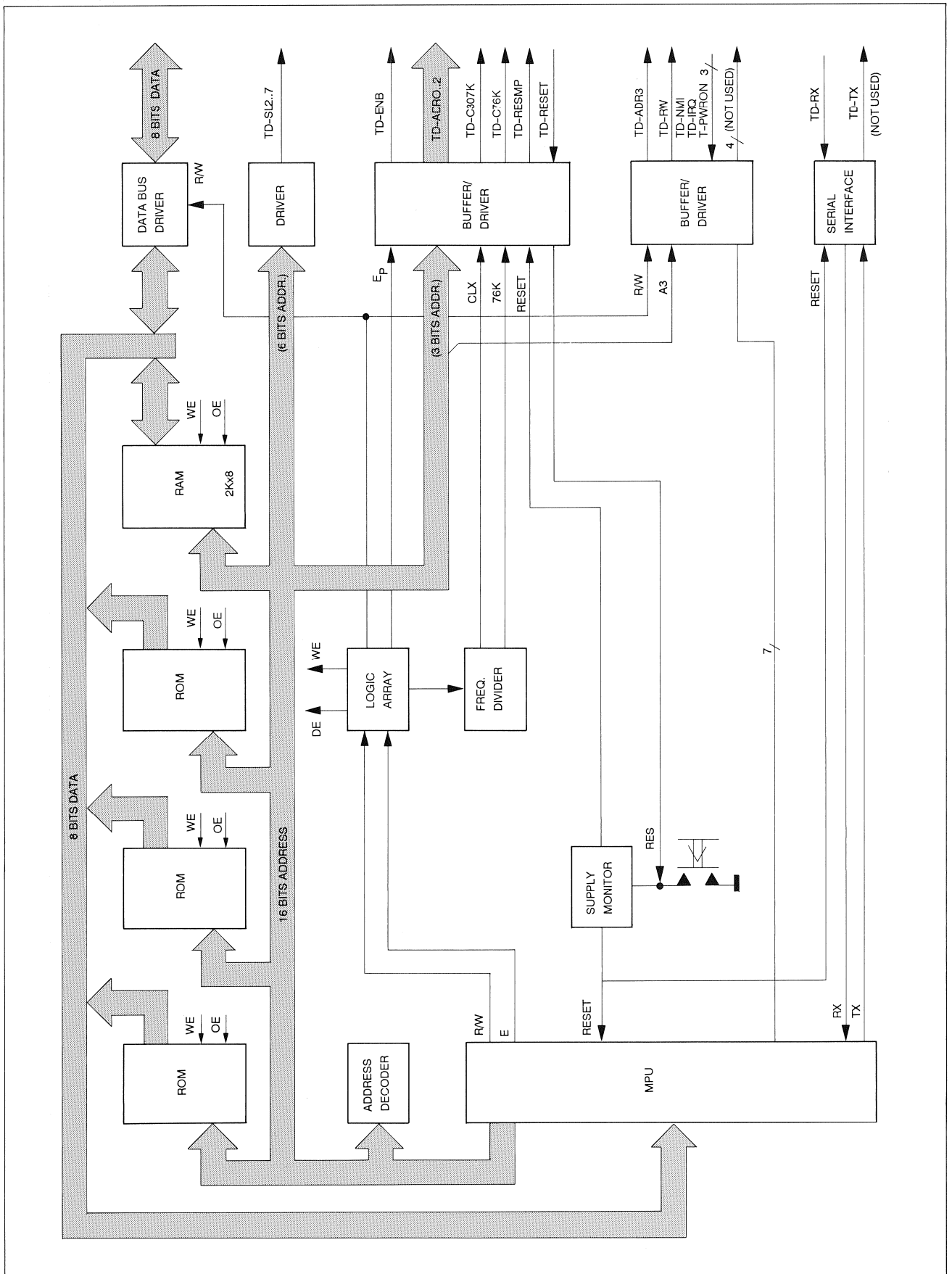
CONVERTER RS422 / TTL 1.862.715.00

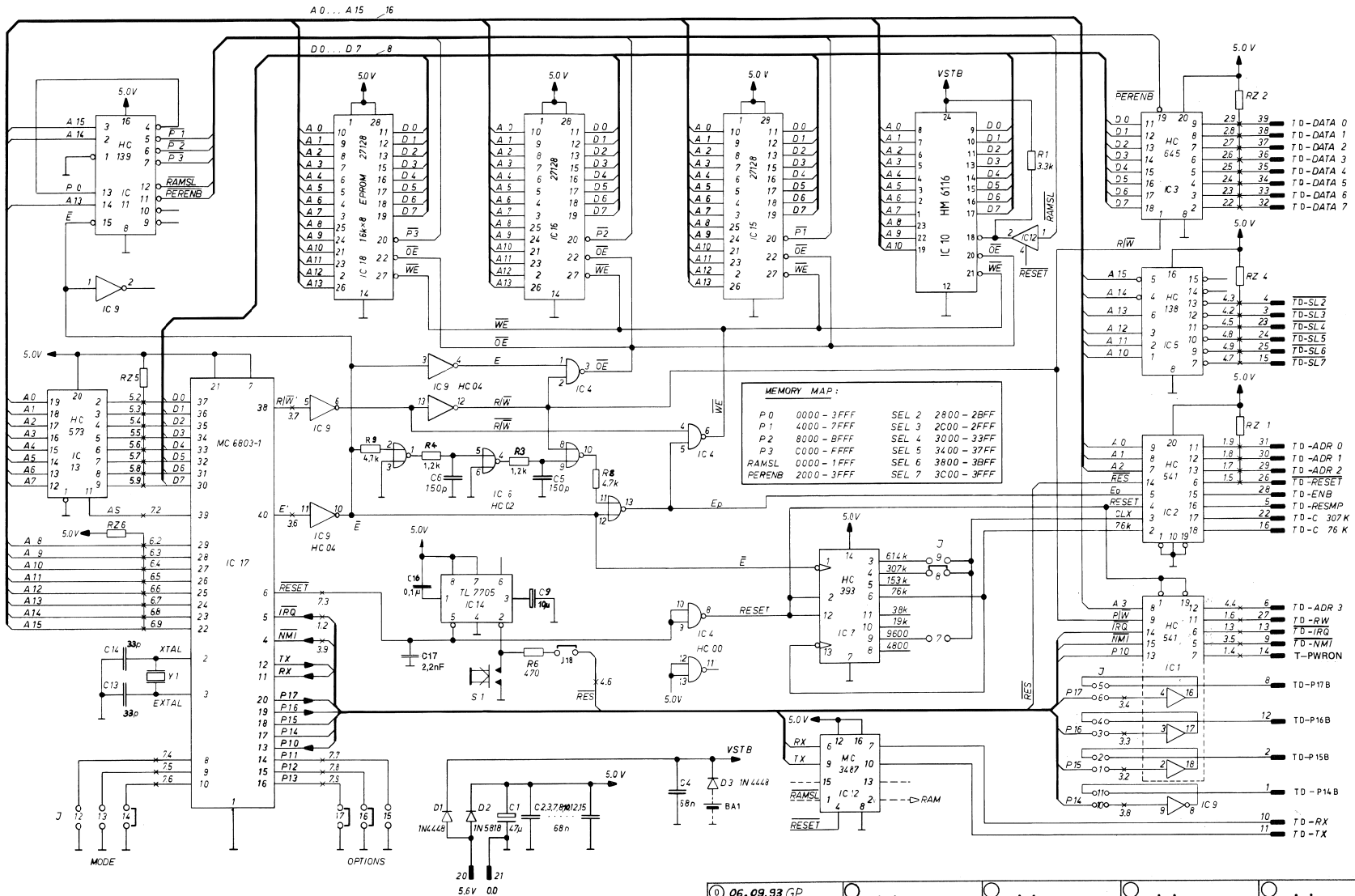




**BLOCK DIAGRAM**

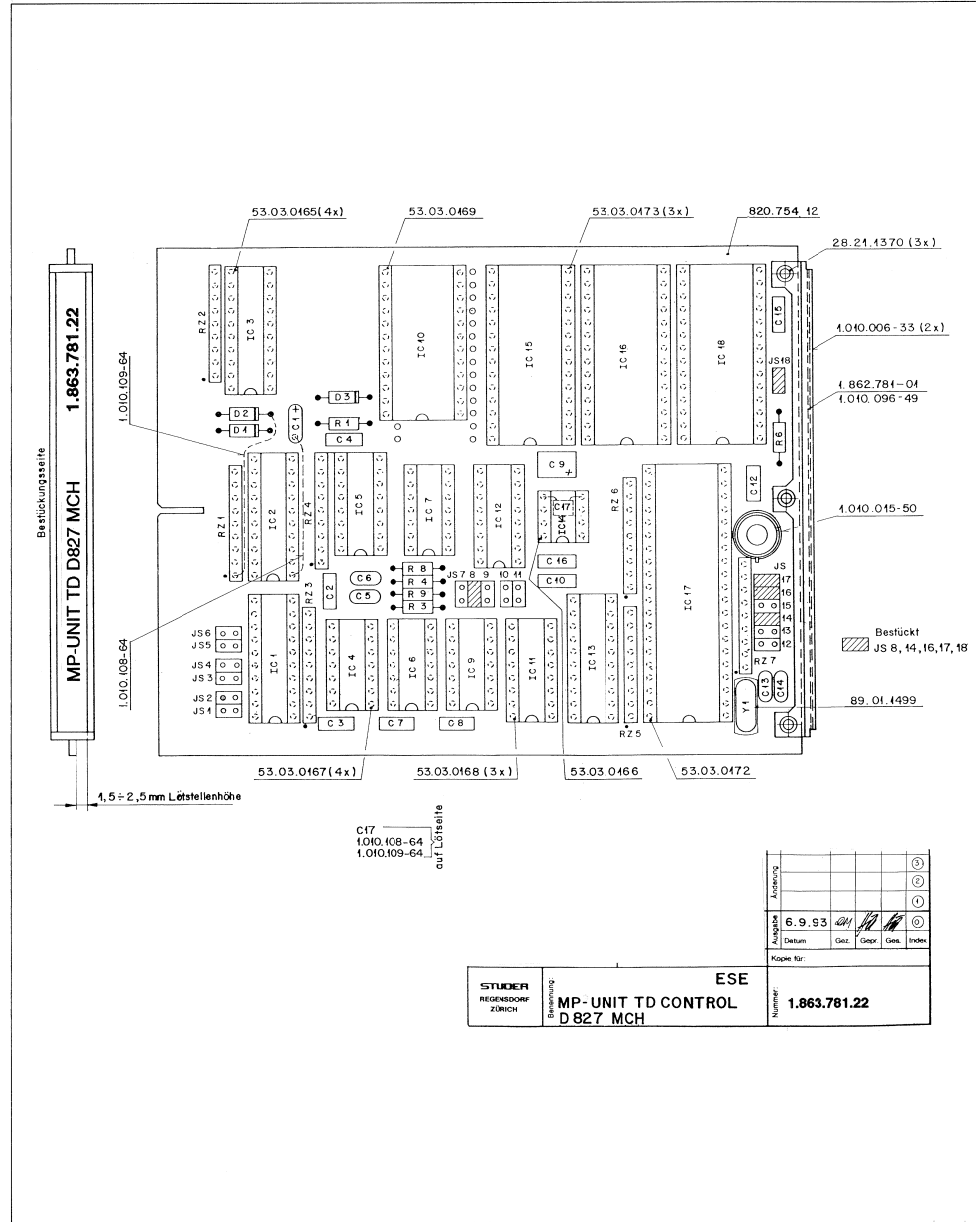
MP Unit Tape Deck Control 1.863.781





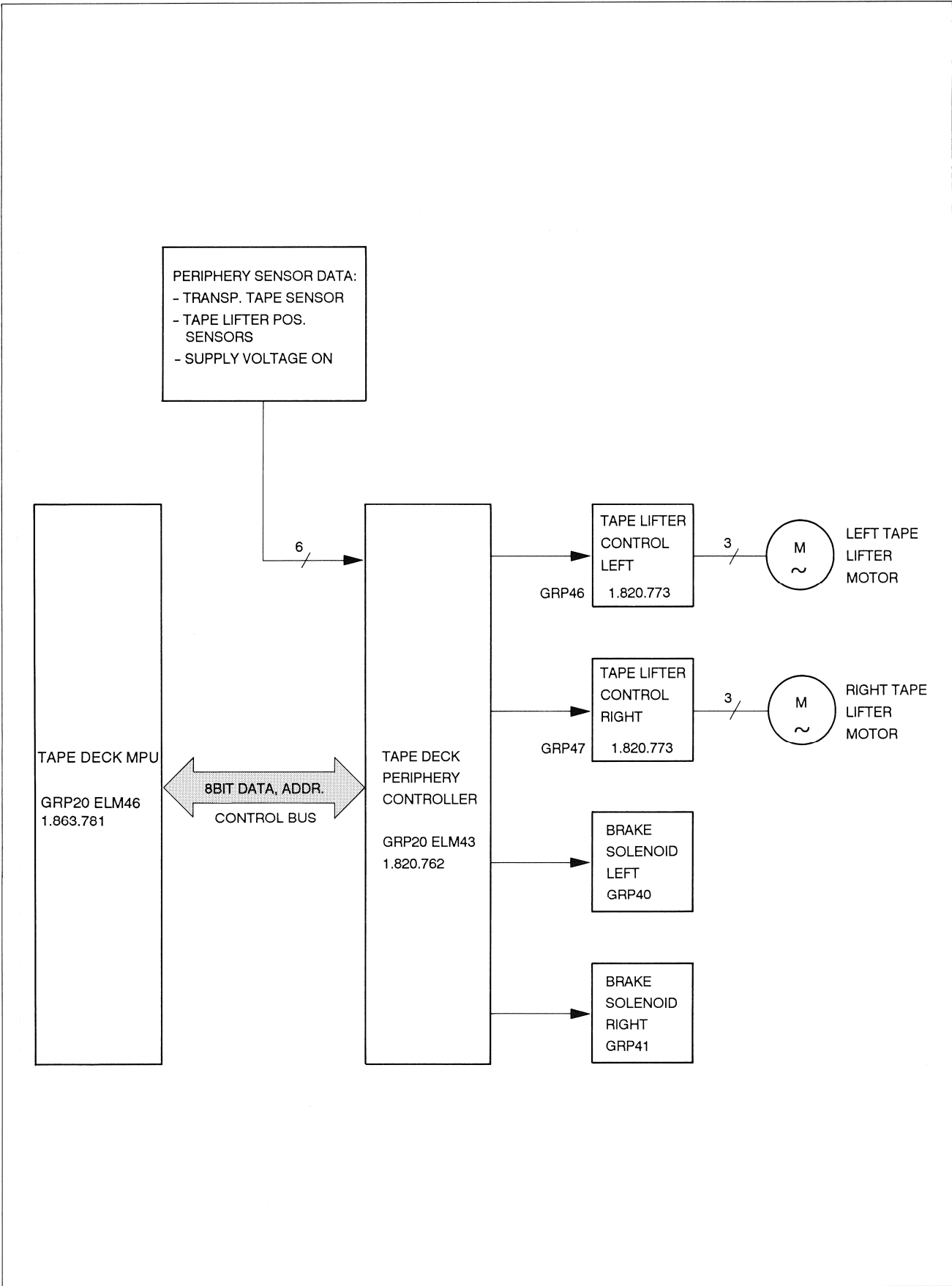


MP-UNIT TAPE DECK CONTROL 1.863.781.22



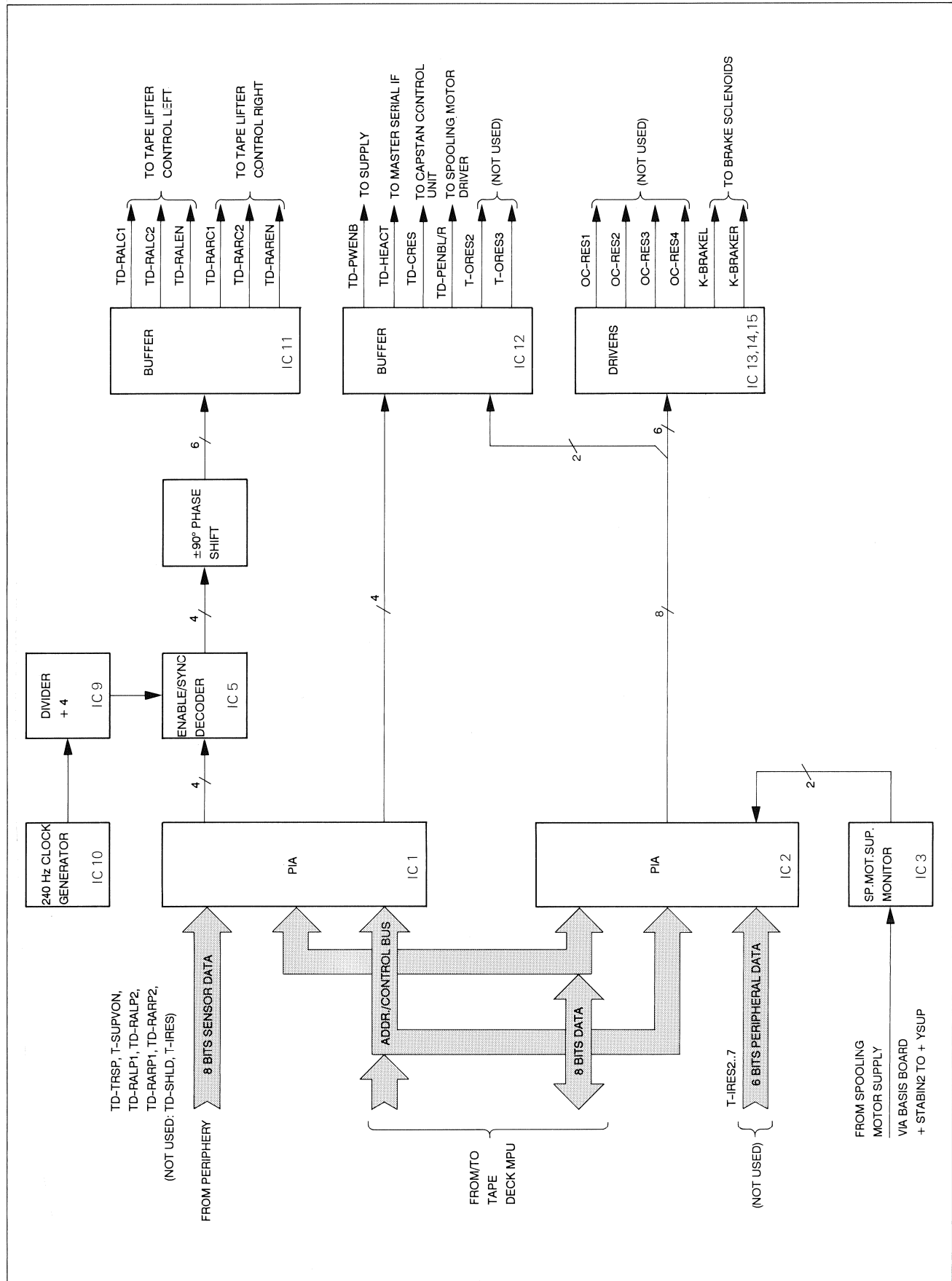
| Ad  | POS.       | REF.No.             | DESCRIPTION                      | MANUFACTURER            | Ad   | POS.                        | REF.No.       | DESCRIPTION | MANUFACTURER |
|---|------------|---------------------|----------------------------------|-------------------------|--|-----------------------------|---------------|-------------|--------------|
| C....1  | 59.26.0470 | 47 uF               | 20%, 6.3V, Sal                   | Ph                      | Ses=Sesocsem, Tf=Telefunken, TI=Texas Instruments. |                             |               |             |              |
| C....2  | 59.06.0683 | 68 nF               | 10%, 63V, PETP                   |                         | 1.863.781.21                                       | MP-UNIT TD CONTROL D827 MCH | ML 94/10/2800 |             |              |
| C....3  | 59.06.0683 | 68 nF               | 10%, 63V, PETP                   |                         | 1.863.781.22                                       | MP-UNIT TD CONTROL D827 MCH | GA 95/04/1222 |             |              |
| C....4  | 59.06.0683 | 68 nF               | 10%, 63V, PETP                   |                         | END  |                             |               |             |              |
| C....5  | 59.34.7151 | 150 pF              | 2%, Ce                           |                         |  |                             |               |             |              |
| C....6  | 59.34.7151 | 150 pF              | 2%, Ce                           |                         |  |                             |               |             |              |
| C....7  | 59.06.0683 | 68 nF               | 10%, 63V, PETP                   |                         |  |                             |               |             |              |
| C....8  | 59.06.0683 | 68 nF               | 10%, 63V, PETP                   |                         |  |                             |               |             |              |
| C....9  | 59.26.2100 | 10 uF               | 20%, 16V, Sal                    |                         |  |                             |               |             |              |
| C....10   | 59.06.0683 | 68 nF               | 10%, 63V, PETP                   |                         |  |                             |               |             |              |
| C....11   | 00.00.0000 | not used            |                                  |                         |  |                             |               |             |              |
| C....12   | 59.06.0683 | 68 nF               | 10%, 63V, PETP                   |                         |  |                             |               |             |              |
| C....13   | 59.34.2330 | 33 pF               | 5%, Ce                           |                         |  |                             |               |             |              |
| C....14   | 59.34.2330 | 33 pF               | 5%, Ce                           |                         |  |                             |               |             |              |
| C....15   | 59.06.0683 | 68 nF               | 10%, 63V, PETP                   |                         |  |                             |               |             |              |
| C....16   | 59.06.0104 | 100 nF              | 10%, 63V, PETP                   |                         |  |                             |               |             |              |
| C....17   | 59.06.0222 | 2.2 nF              | 10%, 63V, PETP                   |                         |  |                             |               |             |              |
| D....1  | 50.04.0122 | 1N 4448             |                                  | Fc,ITT,Ph,Ses,Tf        |  |                             |               |             |              |
| D....2  | 50.04.0512 | 1N 5518             |                                  | Not                     |  |                             |               |             |              |
| D....3  | 50.04.0122 | 1N 4448             |                                  | Fc,ITT,Ph,Ses,Tf        |  |                             |               |             |              |
| IC....1   | 50.17.1541 | 74 HC 541           |                                  | Mot,NS,Ph,RCA,SGS,TI,To |  |                             |               |             |              |
| IC....2   | 50.17.1541 | 74 HC 541           |                                  | Mot,NS,Ph,RCA,SGS,TI,To |  |                             |               |             |              |
| IC....3   | 50.17.1645 | 74 HC 645           |                                  | Mot,NS,Ph,RCA,SGS,TI,To |  |                             |               |             |              |
| IC....4   | 50.17.1132 | 74 HC 132           |                                  | Mot,NS,Ph,RCA,SGS,TI,To |  |                             |               |             |              |
| IC....5   | 50.17.1138 | 74 HC 138           |                                  | Mot,NS,Ph,RCA,SGS,TI,To |  |                             |               |             |              |
| IC....6   | 50.17.1002 | 74 HC 02            |                                  | Mot,NS,Ph,RCA,SGS,TI,To |  |                             |               |             |              |
| IC....7   | 80.17.1393 | 74 HC 393           |                                  | Mot,NS,Ph,RCA,SGS,TI,To |  |                             |               |             |              |
| IC....8   | 00.00.0000 | not used            |                                  |                         |  |                             |               |             |              |
| IC....9   | 50.17.0004 | 74 HCT 04           |                                  | Mot,NS,Ph,RCA,SGS,TI,To |  |                             |               |             |              |
| IC....10  | 50.14.0107 | HM6116LP-4          | MSM 5128-15                      | Hi,OKI                  |  |                             |               |             |              |
| IC....11  | 50.17.1139 | 74 HC 139           |                                  | Mot,NS,Ph,RCA,SGS,TI,To |  |                             |               |             |              |
| IC....12  | 50.15.0105 | MC 3487 P DS 3187 N |                                  | Mot,NS                  |  |                             |               |             |              |
| IC....13  | 50.17.1573 | 74 HC 573           |                                  | Mot,NS,Ph,RCA,SGS,TI,To |  |                             |               |             |              |
| IC....14  | 50.11.0157 | TL7708SCP           |                                  | TI                      |  |                             |               |             |              |
| IC....15  | 00.00.0000 | not used            |                                  |                         |  |                             |               |             |              |
| IC....16  | 50.14.0122 | 27128               | HN 4327128G-30 (SM 1.863.797.21) | note 1 St               |  |                             |               |             |              |
| IC....17  | 50.16.0107 | MC6803P-1 6803P-L   |                                  | Mot,HI                  |  |                             |               |             |              |
| IC....18  | 50.14.0122 | 27128               | HN 4327128G-30 (SM 1.863.797.21) | note 1 St               |  |                             |               |             |              |
| IC....18  | 50.14.0122 | 27128               | HN 4327128G-30 (SM 1.863.797.22) | note 1 St               |  |                             |               |             |              |
| JS....1   |            | see note 2          |                                  |                         |  |                             |               |             |              |
| JS....2   |            | see note 2          |                                  |                         |  |                             |               |             |              |
| JS....3   |            | see note 2          |                                  |                         |  |                             |               |             |              |
| JS....4   |            | see note 2          |                                  |                         |  |                             |               |             |              |
| JS....5   |            | see note 2          |                                  |                         |  |                             |               |             |              |
| JS....6   |            | see note 2          |                                  |                         |  |                             |               |             |              |
| JS....7   |            | see note 2          |                                  |                         |  |                             |               |             |              |
| JS....8   |            | see note 2          |                                  |                         |  |                             |               |             |              |
| JS....9   |            | see note 2          |                                  |                         |  |                             |               |             |              |
| JS....10  |            | see note 2          |                                  |                         |  |                             |               |             |              |
| JS....11  |            | see note 2          |                                  |                         |  |                             |               |             |              |
| JS....12  |            | see note 2          |                                  |                         |  |                             |               |             |              |
| JS....13  |            | see note 2          |                                  |                         |  |                             |               |             |              |
| JS....14  |            | see note 2          |                                  |                         |  |                             |               |             |              |
| JS....15  |            | see note 2          |                                  |                         |  |                             |               |             |              |
| JS....16  |            | see note 2          |                                  |                         |  |                             |               |             |              |
| JS....17  |            | see note 2          |                                  |                         |  |                             |               |             |              |
| JS....18  |            | see note 2          |                                  |                         |  |                             |               |             |              |
| R....1  | 57.11.3332 | 3.3 kOhm            | 5%                               |                         |  |                             |               |             |              |
| R....2  | 00.00.0000 | not used            |                                  |                         |  |                             |               |             |              |
| R....3  | 57.11.3122 | 1.2 kOhm            | 5%                               |                         |  |                             |               |             |              |
| R....4  | 57.11.3122 | 1.2 kOhm            | 5%                               |                         |  |                             |               |             |              |
| R....5  | 00.00.0000 | not used            |                                  |                         |  |                             |               |             |              |
| R....6  | 57.11.3471 | 470 Ohm             | 5%                               |                         |  |                             |               |             |              |
| R....7  | 00.00.0000 | not used            |                                  |                         |  |                             |               |             |              |
| R....8  | 57.11.3472 | 4.7 kOhm            | 5%                               |                         |  |                             |               |             |              |
| R....9  | 57.11.3472 | 4.7 kOhm            | 5%                               |                         |  |                             |               |             |              |
| KZ....1   | 57.88.4332 | see note 3          |                                  |                         |  |                             |               |             |              |
| KZ....2   | 57.88.4332 | see note 3          |                                  |                         |  |                             |               |             |              |
| KZ....3   | 57.88.4332 | see note 3          |                                  |                         |  |                             |               |             |              |
| KZ....4   | 57.88.4332 | see note 3          |                                  |                         |  |                             |               |             |              |
| KZ....5   | 57.88.4332 | see note 3          |                                  |                         |  |                             |               |             |              |
| KZ....6   | 57.88.4332 | see note 3          |                                  |                         |  |                             |               |             |              |
| KZ....7   | 57.88.4332 | see note 3          |                                  |                         |  |                             |               |             |              |
| S....1  | 55.03.0122 | Chicago Switch      | 34-550-001                       |                         |  |                             |               |             |              |
| T....1  | 89.01.0560 | 4.9152 MHz          | +/-100 ppm                       |                         |  |                             |               |             |              |
| (22) 95.04.12. Software 15/95. Improved error handling.   |            |                     |                                  |                         |  |                             |               |             |              |
| Note 1 - IC 16/18 : Software in set available only.   |            |                     |                                  |                         |  |                             |               |             |              |
| Note 2 - Contact pin: Studer Nr. 54.01.0020<br>Berg Nr. 75 160-192-36<br>Philips Nr. 2422 025 89303<br>Bridge: Studer Nr. 54.01.0021<br>Berg Nr. 65 471-001<br>Philips Nr. 2422 024 88003 |            |                     |                                  |                         |  |                             |               |             |              |
| Note 3 - Network: 8 = 3.3 kOhm, 5%<br>Stovend Nr. C09 x 3.3 k J<br>Ineltro Nr. R88 3.3 k 5%   |            |                     |                                  |                         |  |                             |               |             |              |
| Ce=Ceramic, Sal=Solid Aluminium, PETP=Polyesterfilm.  |            |                     |                                  |                         |  |                             |               |             |              |
| MANUFACTURER: Fc=Fairchild, Hi=Hitachi, ITT=Istermetall, Mot=Motorola,<br>NS=National Semiconductors, OK=OKI, Ph=Philips,   |            |                     |                                  |                         |  |                             |               |             |              |

**BLOCK DIAGRAM**  
Tape Deck Periphery Control (overview)

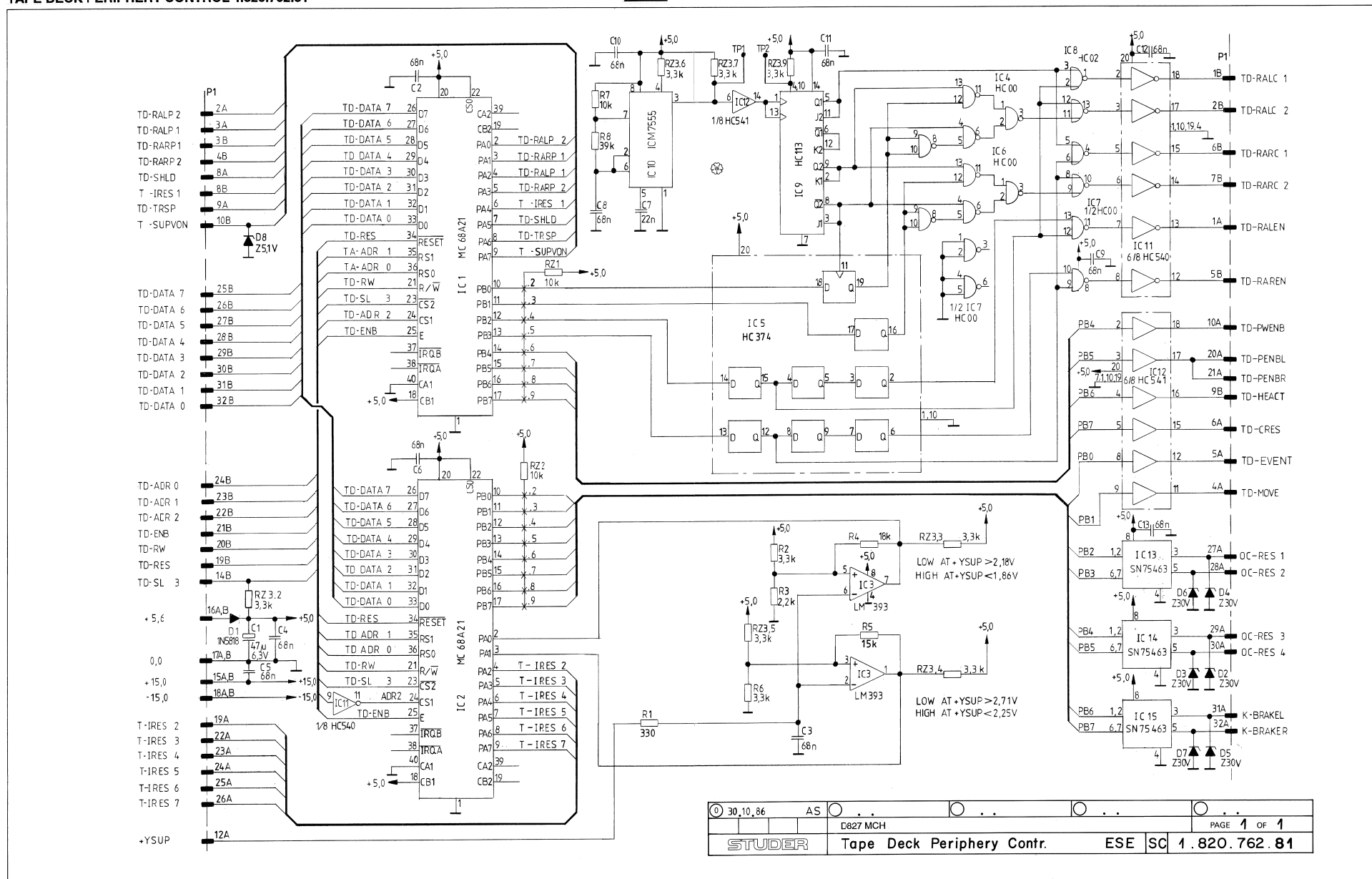


BLOCK DIAGRAM

Tape Deck Periphery Control 1.820.762



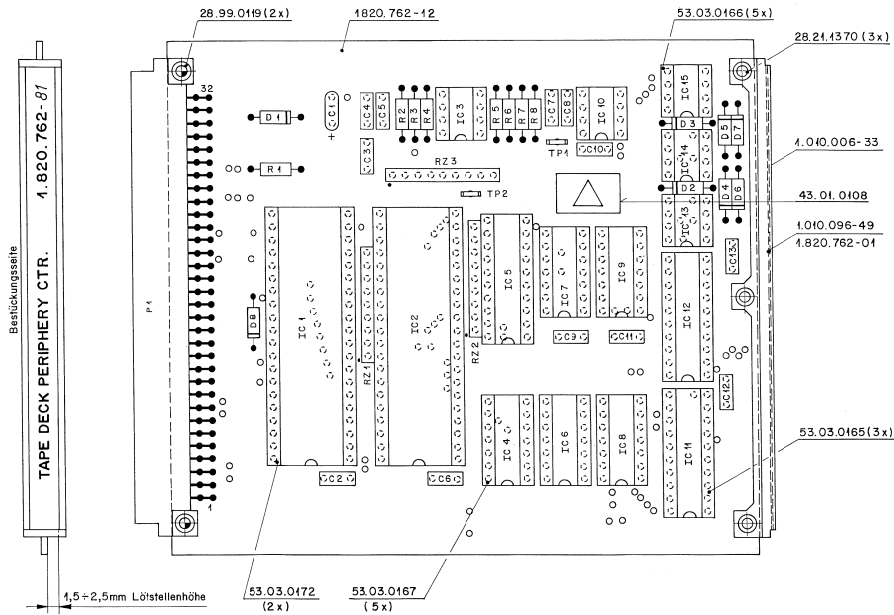
TAPE DECK PERIPHERY CONTROL 1.820.762.81



|          |    |          |  |  |                            |  |  |             |  |
|----------|----|----------|--|--|----------------------------|--|--|-------------|--|
| 30,10,86 | AS |          |  |  |                            |  |  |             |  |
| STUDER   |    | D827 MCH |  |  | Tape Deck Periphery Contr. |  |  | PAGE 1 OF 1 |  |
| ESE      |    | SC       |  |  | 1.820.762.81               |  |  |             |  |



TAPE DECK PERIPHERY CONTROL 1.820.762.81



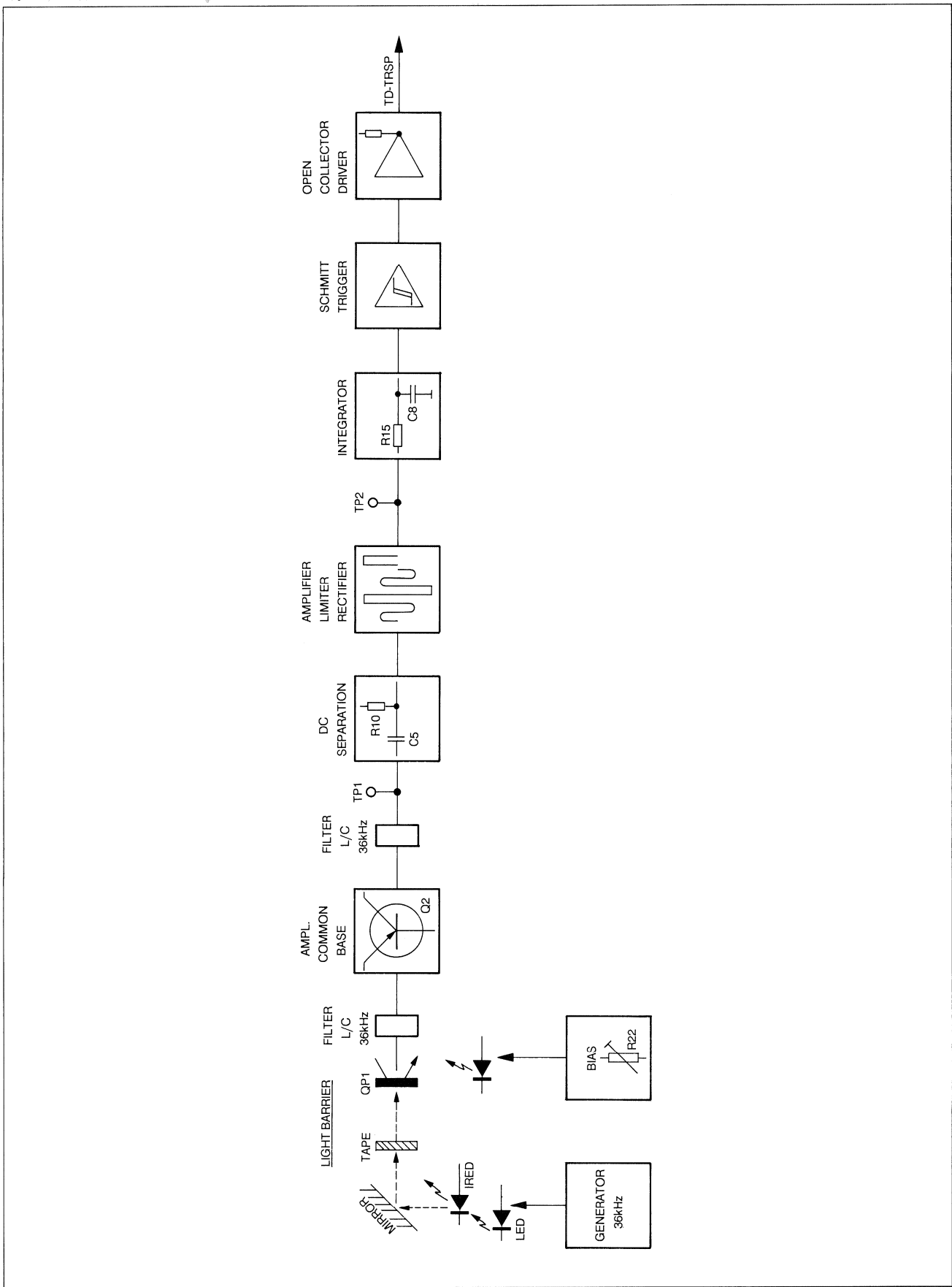
|                                |                                |                   |          |              |     |     |
|--------------------------------|--------------------------------|-------------------|----------|--------------|-----|-----|
| Zugehörige Unterlagen:         |                                | Fräsmasstoleranz: | Maßstab: | 3110,86      | Maß | 1:1 |
| PL                             | ±                              | 2:1               |          |              |     |     |
| Ersatz für:                    |                                | Ersetzt durch:    |          | Kopie für:   |     |     |
| STUDER<br>REGENSDORF<br>ZÜRICH | TAPE DECK PERIPHERY<br>CONTROL |                   | ESE      | 1.820.762-81 |     |     |

Ad .POS. .REF.No. .DESCRIPTION. .MANUFACTURER

|                     |  |                        |                                 |              |
|---------------------|--|------------------------|---------------------------------|--------------|
| C.....1             | 89.26.0470   | 47 uF                  | 20%, 6.3V                       |              |
| C.....2             | 59.06.0683   | 68 nF                  | 20%                             |              |
| C.....3             | 59.06.0683   | 68 nF                  | 20%                             |              |
| C.....4             | 59.06.0683   | 68 nF                  | 20%                             |              |
| C.....5             | 59.06.0683   | 68 nF                  | 20%                             |              |
| C.....6             | 59.06.0683   | 68 nF                  | 20%                             |              |
| C.....7             | 59.06.0223   | 22 nF                  | 10%                             |              |
| C.....8             | 59.06.0683   | 68 nF                  | 5%                              |              |
| C.....9             | 59.06.0683   | 68 nF                  | 20%                             |              |
| C.....10            | 59.06.0683   | 68 nF                  | 20%                             |              |
| C.....11            | 59.06.0683   | 68 nF                  | 20%                             |              |
| C.....12            | 59.06.0683   | 68 nF                  | 20%                             |              |
| C.....13            | 59.06.0683   | 68 nF                  | 20%                             |              |
| D.....1             | 50.04.0512   | 1N 5818                | 1N 5819                         | Mot          |
| D.....2             | 50.04.1125   | 30 V Z                 | ZPD 30                          | ITT          |
| D.....3             | 50.04.1125   | 30 V Z                 | ZPD 30                          | ITT          |
| D.....4             | 50.04.1125   | 30 V Z                 | ZPD 30                          | ITT          |
| D.....5             | 50.04.1125   | 30 V Z                 | ZPD 30                          | ITT          |
| D.....6             | 50.04.1125   | 30 V Z                 | ZPD 30                          | ITT          |
| D.....7             | 50.04.1125   | 30 V Z                 | ZPD 30                          | ITT          |
| D.....8             | 50.04.1112   | 5.1 V Z                | BZX83C 5V1, BZX55C 5V1, ZPD 5.1 | ITT, Ses     |
| IC.....1            | 50.16.0106   | MC68 A 21P             | S68 A 21P                       | AMI, Fc, Mot |
| IC.....2            | 50.16.0106   | MC68 A 21P             | S68 A 21P                       | AMI, Fc, Mot |
| IC.....3            | 50.05.0283   | 1N 333 N               | 1N 333 P                        | NS, TI       |
| IC.....4            | 50.17.1000   | 74 HC 00               | .. 74 HC 00 .                   | Mot, NS, TI  |
| IC.....5            | 50.17.1374   | 74 HC 374              | .. 74 HC 374 .                  | Mot, NS, TI  |
| IC.....6            | 50.17.1000   | 74 HC 00               | .. 74 HC 00 .                   | Mot, NS, TI  |
| IC.....7            | 50.17.1000   | 74 HC 00               | .. 74 HC 00 .                   | Mot, NS, TI  |
| IC.....8            | 50.17.1002   | 74 HC 02               | .. 74 HC 02 .                   | Mot, NS, TI  |
| IC.....9            | 50.17.1113   | 74 HC 113              | .. 74 HC 113 .                  | Mot, NS, TI  |
| IC.....10           | 50.07.0036   | 1CM7551PA              |                                 | Is, Ma       |
| IC.....11           | 50.17.1540   | 74 HC 540              | .. 74 HC 540 .                  | Mot, NS, TI  |
| IC.....12           | 50.17.1541   | 74 HC 541              | .. 74 HC 541 .                  | Mot, NS, TI  |
| IC.....13           | 50.05.0203   | SN 75463 P             | DS 3613 N                       | NS, TI       |
| IC.....14           | 50.05.0203   | SN 75463 P             | DS 3613 N                       | NS, TI       |
| IC.....15           | 50.05.0203   | SN 75463 P             | DS 3613 N                       | NS, TI       |
| P.....1             | 54.11.2004   |                        | 2 * 32 contacts, see note 1     |              |
| R.....1             | 57.11.4331   | 330 Ohm                | 10%                             |              |
| R.....2             | 57.11.4332   | 3.3 kOhm               | 5%                              |              |
| R.....3             | 57.11.4222   | 2.2 kOhm               | 5%                              |              |
| R.....4             | 57.11.4183   | 18 kOhm                | 5%                              |              |
| R.....5             | 57.11.4153   | 15 kOhm                | 5%                              |              |
| R.....6             | 57.11.4332   | 3.3 kOhm               | 5%                              |              |
| R.....7             | 57.11.4103   | 10 kOhm                | 5%                              |              |
| R.....8             | 57.11.4393   | 39 kOhm                | 5%                              |              |
| RZ.....1            | 57.88.4103   | 10 kOhm                | 10%                             | See note 2   |
| RZ.....2            | 57.88.4103   | 10 kOhm                | 10%                             | See note 2   |
| RZ.....3            | 57.88.4332   | 3.3 kOhm               | 10%                             | See note 3   |
| TP.....1            | 54.02.0320   | test pin               |                                 |              |
| TP.....2            | 54.02.0320   | test pin               |                                 |              |
| Note 1 - Connector: | 2 * 32 Euro Print  | P1 64 B 20 P00 F00 Z0  |                                 |              |
|                     | Burdud   | 9722.563.191           |                                 |              |
| Note 2 - Network:   | 8 * 10 kOhm, 5%, single line   |                        |                                 |              |
|                     | Bourns   | 4609 X - 101 - :03     |                                 |              |
|                     | Sprague  | 256 CJ 103 X 2 PD      |                                 |              |
|                     | Beckmann   | L - 09 - 1 - R 10 kJ   |                                 |              |
|                     | Matsushita   | F 9 E 10 k 5%          |                                 |              |
|                     | Tama   | MRG C 09 X 10 k J      |                                 |              |
| Note 3 - Network:   | 8 * 3.3 kOhm, 5%, single line  |                        |                                 |              |
|                     | Bourns   | 4609 X - 101 - 332     |                                 |              |
|                     | Sprague  | 256 CJ 332 X 2 PD      |                                 |              |
|                     | Beckmann   | L - 09 - 1 - R 3.3 k J |                                 |              |
|                     | Matsushita   | F 9 E 3.3 k 5%         |                                 |              |
|                     | Tama   | MRG C 09 X 3.3 k J     |                                 |              |
| Manufacturers:      | AMI=American Microsystem Inc., Fc=Fairchild, Hi=Hitachi, IT=Intersil, Is=Intersil, Ma=Maxim, Mot=Motorola, NS=National Semiconductors, Ph=Phillips, Ra=Raytheon, RCA=RCA Corporation of America, Sig=Signetics, TI=Texas Instruments, To= Toshiba. |                        |                                 |              |

**BLOCK DIAGRAM**

Opto Sensor Board 1.820.793







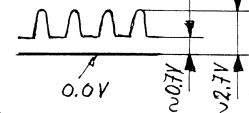
① 8.8.89  
 STUDER  
 OPTOSENSOR  
 1.820.793-82  
 PAGE OF

LINE UP PROCEDURE

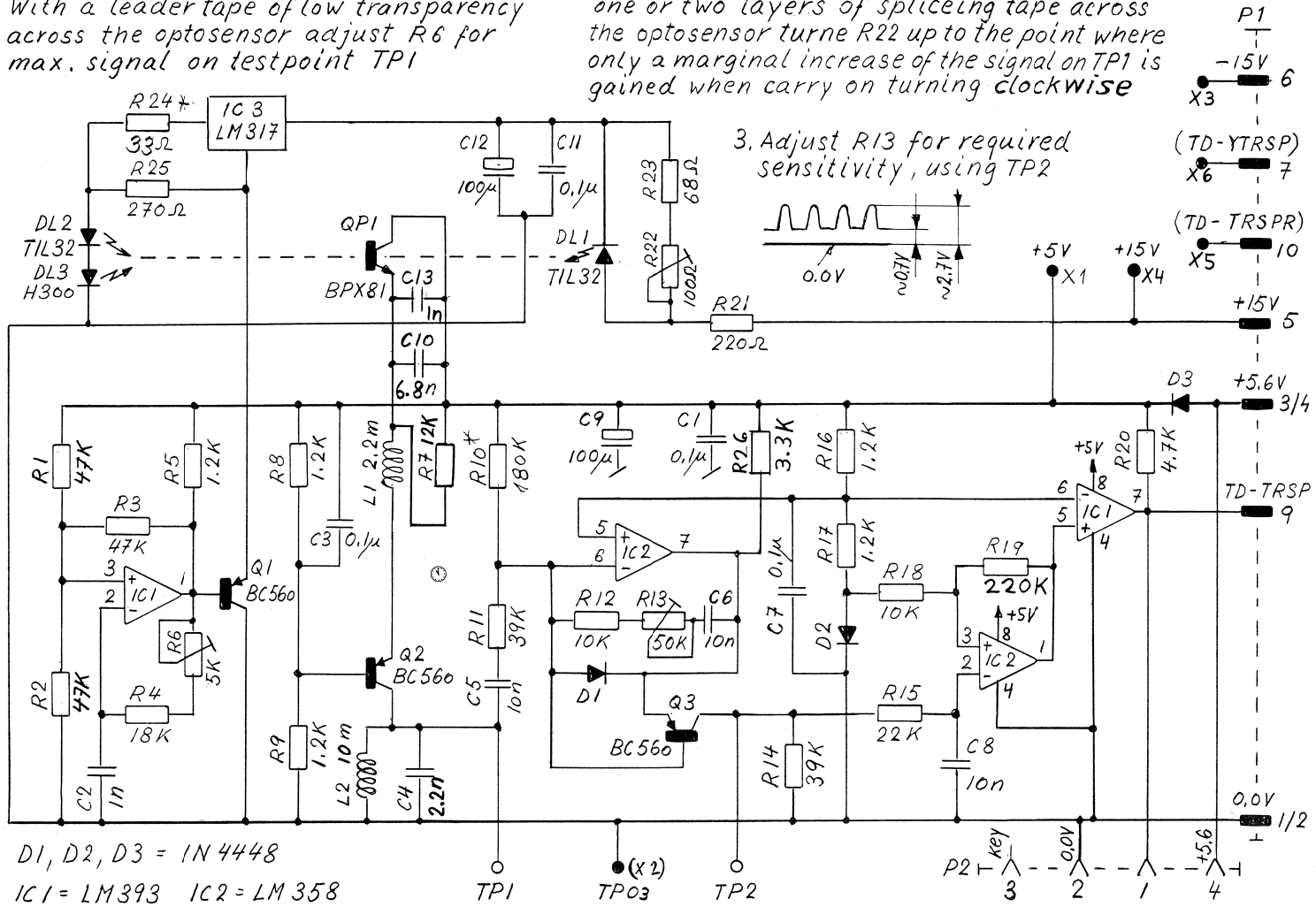
1. With a leader tape of low transparency across the optosensor adjust R6 for max. signal on testpoint TP1

2. With a leader tape of low transparency plus one or two layers of splicing tape across the optosensor turn R22 up to the point where only a marginal increase of the signal on TP1 is gained when carry on turning clockwise

3. Adjust R13 for required sensitivity, using TP2



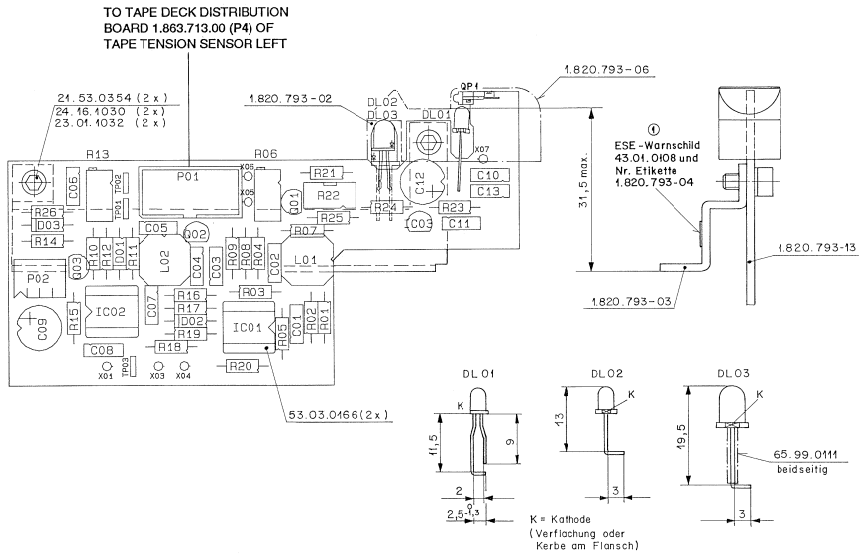
\* has been modified



D1, D2, D3 = 1N4448  
 IC1 = LM393 IC2 = LM358



OPTO SENSOR BOARD 1.820.793.82



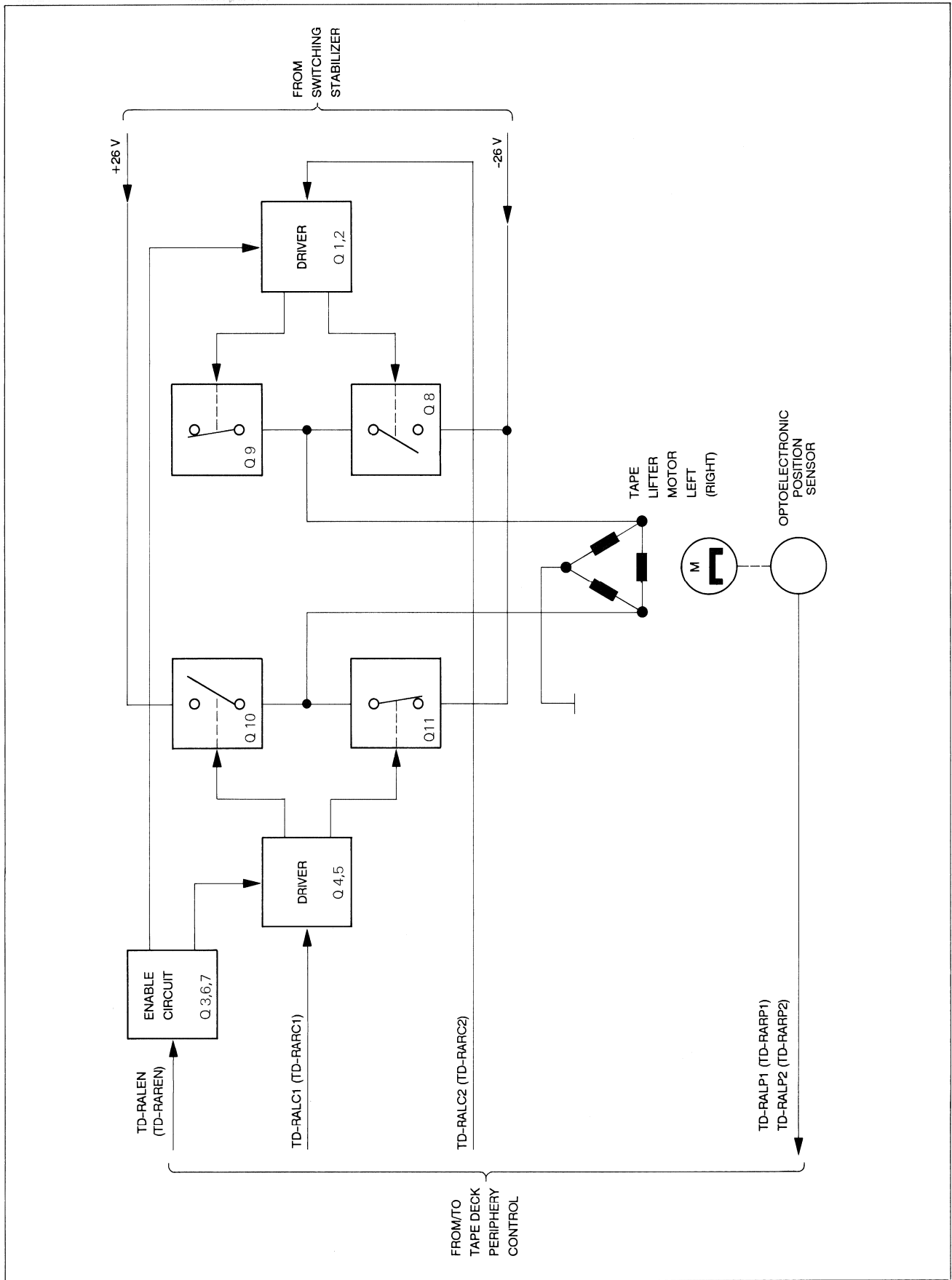
|  |     |       |      |  |                                  |          |  |  |  |  |  |         |  |  |  |  |  |        |  |  |  |  |  |       |     |       |      |       |  |
|--|-----|-------|------|--|----------------------------------|----------|--|--|--|--|--|---------|--|--|--|--|--|--------|--|--|--|--|--|-------|-----|-------|------|-------|--|
| STUDER<br>REGENSDORF<br>ZÜRICH   |     |       |      | Bezeichnung:<br><b>OPTO SENSOR BOARD<br/>ESE</b> | Nr. des<br><b>1.820.793 - 82</b> |          |  |  |  |  |  |         |  |  |  |  |  |        |  |  |  |  |  |       |     |       |      |       |  |
| <table border="1"> <tr> <td>Änderung</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5.12.89</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>7.9.89</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Datum</td> <td>Gzt</td> <td>Gepr.</td> <td>Ges.</td> <td>Indox</td> <td></td> </tr> </table> |     |       |      |  |                                  | Änderung |  |  |  |  |  | 5.12.89 |  |  |  |  |  | 7.9.89 |  |  |  |  |  | Datum | Gzt | Gepr. | Ges. | Indox |  |
| Änderung   |     |       |      |  |                                  |          |  |  |  |  |  |         |  |  |  |  |  |        |  |  |  |  |  |       |     |       |      |       |  |
| 5.12.89  |     |       |      |  |                                  |          |  |  |  |  |  |         |  |  |  |  |  |        |  |  |  |  |  |       |     |       |      |       |  |
| 7.9.89   |     |       |      |  |                                  |          |  |  |  |  |  |         |  |  |  |  |  |        |  |  |  |  |  |       |     |       |      |       |  |
| Datum  | Gzt | Gepr. | Ges. | Indox  |                                  |          |  |  |  |  |  |         |  |  |  |  |  |        |  |  |  |  |  |       |     |       |      |       |  |
| Kopie für:   |     |       |      |  |                                  |          |  |  |  |  |  |         |  |  |  |  |  |        |  |  |  |  |  |       |     |       |      |       |  |

| Ad      | ..POS.     | ..REF.No. | DESCRIPTION             | MANUFACTURER                |
|---------|------------|-----------|-------------------------|-----------------------------|
| C....1  | 59.06.0104 | 0.1 uF    | 10%, 63V , PETP         |                             |
| C....2  | 59.06.0102 | 1 nF      | 10%, 63V , PETP         |                             |
| C....3  | 59.06.0104 | 0.1 uF    | 10%, 63V , PETP         |                             |
| C....4  | 59.06.5222 | 2.2 nF    | 5%, 63V , PETP          |                             |
| C....5  | 59.06.0103 | 10 nF     | 10%, 63V , PETP         |                             |
| C....6  | 59.06.0103 | 10 nF     | 10%, 63V , PETP         |                             |
| C....7  | 59.06.0104 | 0.1 uF    | 10%, 63V , PETP         |                             |
| C....8  | 59.06.0103 | 10 nF     | 10%, 63V , PETP         |                             |
| C....9  | 59.22.3101 | 100 uF    | 20%, 10V , EL           |                             |
| C....10 | 59.06.5682 | 6.8 nF    | 5%, 63V , PETP          |                             |
| C....11 | 59.06.0104 | 0.1 uF    | 10%, 63V , PETP         |                             |
| C....12 | 59.22.3101 | 100 uF    | 20%, 10V , EL           |                             |
| C....13 | 59.06.0102 | 1 nF      | 10%, 63V , PETP         |                             |
| D.....1 | 50.04.0125 | 1N4448    |                         | R-OHM, Fc, ITT, Ph, Tf, Mot |
| D.....2 | 50.04.0125 | 1N4448    |                         | R-OHM, Fc, ITT, Ph, Tf, Mot |
| D.....3 | 50.04.0125 | 1N4448    |                         | R-OHM, Fc, ITT, Ph, Tf, Mot |
| DL....1 | 50.04.2110 | OP165SL   | LED, IR TIL32           | Op, TI                      |
| DL....2 | 50.04.2950 | OP165A    | LED, IR TIL32           | Op, TI                      |
| DL....3 | 50.04.2110 | OP165SL   | LED, IR TIL32           | Op, TI                      |
| DL....4 | 50.04.2950 | OP165A    | LED, IR TIL32           | Op, TI                      |
| DL....5 | 50.04.2155 | ER300     | LED, RED                | STY                         |
| IC....1 | 50.05.0283 | LM 393 N  | LM 393 P                | Tho, NS, TI                 |
| IC....2 | 50.05.0286 | LM 358 M  |                         | Mot, NS, SGS, Sig, TI       |
| IC....3 | 50.10.0108 | LM 317 LZ |                         | Mot, NS                     |
| L....1  | 62.02.3222 | 2.2mH     |                         | TDK                         |
| L....2  | 62.02.3103 | 10mH      |                         | TDK                         |
| P....1  | 54.14.2001 | Connector | 10 contacts, flat cable |                             |
| P....2  | 54.01.0304 | Connector | 4 contacts, CIS         |                             |
| Q....1  | 54.03.0496 | BC 560    |                         | Sie                         |
| Q....2  | 54.03.0496 | BC 560    |                         | Sie                         |
| Q....3  | 54.03.0496 | BC 560    |                         | Sie                         |
| QP....1 | 50.04.5001 | BPX 81    |                         | Sie                         |
| R....1  | 57.11.3473 | 47 KOhm   | 1%                      |                             |
| R....2  | 57.11.3473 | 47 KOhm   | 1%                      |                             |
| R....3  | 57.11.3473 | 47 KOhm   | 1%                      |                             |
| R....4  | 57.11.3183 | 18 KOhm   | 1%                      |                             |
| R....5  | 57.11.3122 | 1.2 KOhm  | 1%                      |                             |
| R....6  | 58.05.0502 | 5 KOhm    | 10% potentiometer       |                             |
| R....7  | 57.11.3123 | 12 KOhm   | 1%                      |                             |
| R....8  | 57.11.3122 | 1.2 KOhm  | 1%                      |                             |
| R....9  | 57.11.3122 | 1.2 KOhm  | 1%                      |                             |
| R....10 | 57.11.3224 | 220 KOhm  | 1%                      |                             |
| R....11 | 57.11.3184 | 180 KOhm  | 1%                      |                             |
| R....12 | 57.11.3393 | 39 KOhm   | 1%                      |                             |
| R....13 | 57.11.3103 | 10 Ohm    | 1%                      |                             |
| R....14 | 58.05.0503 | 50 KOhm   | 10% Potentiometer       |                             |
| R....15 | 57.11.3393 | 39 KOhm   | 1%                      |                             |
| R....16 | 57.11.3223 | 22 KOhm   | 1%                      |                             |
| R....17 | 57.11.3122 | 1.2 KOhm  | 1%                      |                             |
| R....18 | 57.11.3103 | 10 KOhm   | 1%                      |                             |
| R....19 | 57.11.3224 | 220 KOhm  | 1%                      |                             |
| R....20 | 57.11.3472 | 4.7 KOhm  | 1%                      |                             |
| R....21 | 57.11.3221 | 220 Ohm   | 1%                      |                             |
| R....22 | 58.01.5101 | 100 Ohm   | 10% Potentiometer       |                             |
| R....23 | 57.11.3680 | 68 Ohm    | 1%                      |                             |
| R....24 | 57.11.3270 | 27 Ohm    | 1%                      |                             |
| R....25 | 57.11.3330 | 33 Ohm    | 1%                      |                             |
| R....26 | 57.11.3271 | 270 Ohm   | 1%                      |                             |
| R....27 | 57.11.3332 | 3.3 KOhm  | 1%                      |                             |
| TP....1 | 54.02.0320 |           | test pin                |                             |
| TP....2 | 54.02.0320 |           | test pin                |                             |
| TP....3 | 54.02.0320 |           | test pin                |                             |

(01) 05.12.89 Sensitivity correction.  
 (02) 18.04.91 Change of component number.  
 CER=Ceramic, EL=Electrolytic, PETP=Polyester, SAL=Solid Aluminum  
 Manufacturers: Fc=Fairchild, ITT=Intermetall, Mot=Motorola  
 NS=National Semiconductors, Op=Optron, Ph=Philips  
 Ra-Raytheon, Ses=Secosens, Sie=Siemens, Sig=Signetics  
 Sty=Stanley, Tf=Telefunken, Tho=Thomson, TI=Texas Instruments  
 1.820.793.82 OPTO SENSOR RGR89/08/3000  
 1.820.793.82 OPTO SENSOR RGR89/12/0501  
 1.820.793.82 OPTO SENSOR RGR91/04/1802

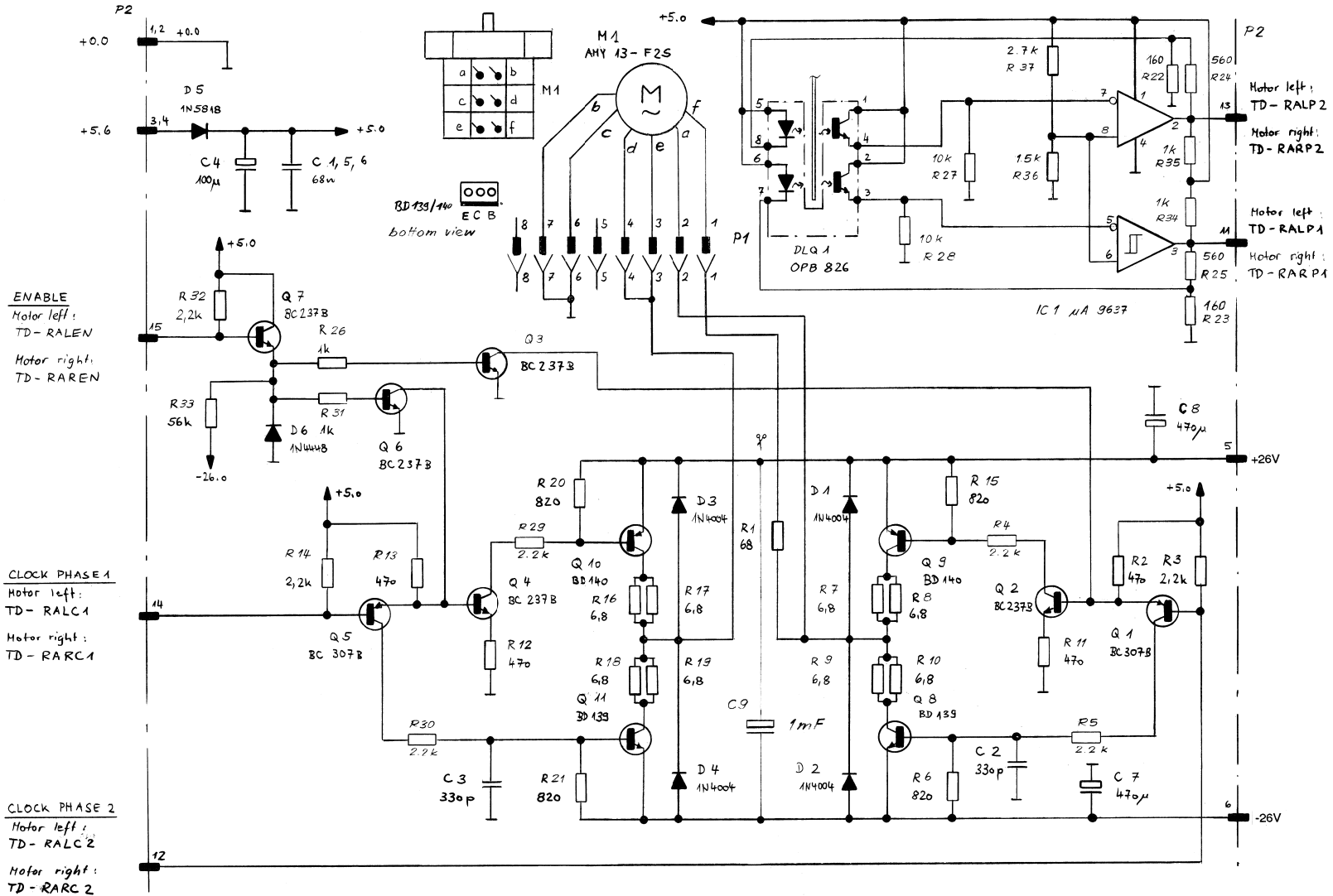
**BLOCK DIAGRAM**

Tape Lifter Control Board 1.820.773



STUDER D827 MCH

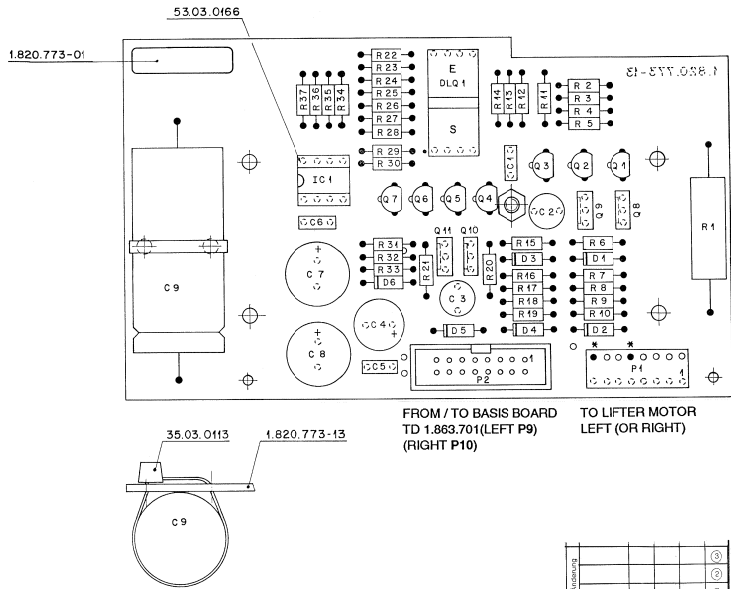
TAPE LIFTER ASSEMBLY LEFT 1.862.140.00  
 TAPE LIFTER ASSEMBLY RIGHT 1.820.141.81  
 -Tape Lifter Control Board 1.820.773.83



|        |                     |    |          |              |             |
|--------|---------------------|----|----------|--------------|-------------|
| 0      | 28.3.91             | OK | D827 MCH |              |             |
| STUDER | Tape Lifter Control |    | SC       | 1.820.773.83 | PAGE 1 OF 1 |

# STUDER D827 MCH

TAPE LIFTER ASSEMBLY LEFT 1.862.140.00  
 TAPE LIFTER ASSEMBLY RIGHT 1.820.141.81  
 -Tape Lifter Control Board 1.820.773.83



FROM / TO BASIS BOARD  
 TD 1.863.701 (LEFT P9)  
 (RIGHT P10)

TO LIFTER MOTOR  
 LEFT (OR RIGHT)

|         |     |      |     |       |
|---------|-----|------|-----|-------|
| 28.3.91 | Gez | Gepr | Gek | Brück |
|---------|-----|------|-----|-------|

|                                |  |                                |
|--------------------------------|--|--------------------------------|
| STUDER<br>REGISNDORF<br>ZÜRICH | Blattnummer:<br><b>TAPE LIFTER<br/>CONTROL BOARD</b> | Nummer:<br><b>1.820.773-83</b> |
|--------------------------------|--|--------------------------------|

| Ad      | POS        | REF.No.   | DESCRIPTION        | MANUFACTURER         |
|---------|------------|-----------|--------------------|----------------------|
| C....1  | 59.06.0683 | 68 nF     | 10%, 63V, PETP     |                      |
| C....2  | 59.05.2331 | 330 pF    | 2.5%, 63V, PP      |                      |
| C....3  | 59.05.2331 | 330 pF    | 2.5%, 63V, PP      |                      |
| C....4  | 59.22.4101 | 100 uF    | 10%, 16V, E1       |                      |
| C....5  | 59.06.0683 | 68 nF     | 10%, 63V, PETP     |                      |
| C....6  | 59.06.0683 | 68 nF     | 10%, 63V, PETP     |                      |
| C....7  | 59.22.6471 | 470 uF    | 10%, 40V, E1       |                      |
| C....8  | 59.22.6471 | 470 uF    | 10%, 40V, E1       |                      |
| C....9  | 59.25.6102 | 1000 uF   | 63V, E1            |                      |
| D....1  | 50.04.0122 | 1N 4001   | ...                | IN 4004<br>Mot       |
| D....2  | 50.04.0122 | 1N 4001   | ...                | IN 4004<br>Mot       |
| D....3  | 50.04.0122 | 1N 4001   | ...                | IN 4004<br>Mot       |
| D....4  | 50.04.0122 | 1N 4001   | ...                | IN 4004<br>Mot       |
| D....5  | 50.04.0512 | 1N 5818   | 1N 5819            | Mot                  |
| D....6  | 50.04.0125 | 1N 4448   |                    | Fc, ITT, Ph, Ses, Tf |
| DLQ...1 | 50.99.0166 | OPB 826S  |                    | Op                   |
| IC....1 | 50.15.0114 | uA 9637A  |                    | TI, Fc               |
| P....1  | 54.01.0289 |           | see note 1         |                      |
| P....2  | 54.14.2002 |           | see note 2         |                      |
| Q....1  | 50.03.0515 | BC 307 B  | BC 251 B, BC 557 B | ITT, Mot, Ph         |
| Q....2  | 50.03.0436 | BC 237 B  | BC 547 B, BC 550 B | ITT, Mot, Ph, Sie    |
| Q....3  | 50.03.0436 | BC 237 B  | BC 547 B, BC 550 B | ITT, Mot, Ph, Sie    |
| Q....4  | 50.03.0436 | BC 237 B  | BC 547 B, BC 550 B | ITT, Mot, Ph, Sie    |
| Q....5  | 50.03.0515 | BC 307 B  | BC 251 B, BC 557 B | ITT, Mot, Ph         |
| Q....6  | 50.03.0436 | BC 237 B  | BC 547 B, BC 550 B | ITT, Mot, Ph, Sie    |
| Q....7  | 50.03.0436 | BC 237 B  | BC 547 B, BC 550 B | ITT, Mot, Ph, Sie    |
| Q....8  | 50.03.0451 | 8D 139-10 |                    | Mot, Ph, SGS, Tf, To |
| Q....9  | 50.03.0452 | 8D 140-10 |                    | Mot, Ph, SGS, Tf, To |
| Q....10 | 50.03.0482 | 8D 140-10 |                    | Mot, Ph, SGS, Tf, To |
| Q....11 | 50.03.0451 | 8D 139-10 |                    | Mot, Ph, SGS, Tf, To |
| R....1  | 57.56.5680 | 68 Ohm    | 10%, 4 W           |                      |
| R....2  | 57.11.4471 | 470 Ohm   | 2%                 |                      |
| R....3  | 57.11.4222 | 2.2 kOhm  | 2%                 |                      |
| R....4  | 57.11.4222 | 2.2 kOhm  | 2%                 |                      |
| R....5  | 57.11.4222 | 2.2 kOhm  | 2%                 |                      |
| R....6  | 57.11.4821 | 820 Ohm   | 2%                 |                      |
| R....7  | 57.11.4689 | 6.8 Ohm   | 5%                 |                      |
| R....8  | 57.11.4689 | 6.8 Ohm   | 5%                 |                      |
| R....9  | 57.11.4689 | 6.8 Ohm   | 5%                 |                      |
| R....10 | 57.11.4689 | 6.8 Ohm   | 5%                 |                      |
| R....11 | 57.11.4471 | 470 Ohm   | 2%                 |                      |
| R....12 | 57.11.4471 | 470 Ohm   | 2%                 |                      |
| R....13 | 57.11.4471 | 470 Ohm   | 2%                 |                      |
| R....14 | 57.11.4222 | 2.2 kOhm  | 2%                 |                      |
| R....15 | 57.11.4821 | 820 Ohm   | 2%                 |                      |
| R....16 | 57.11.4689 | 6.8 Ohm   | 5%                 |                      |
| R....17 | 57.11.4689 | 6.8 Ohm   | 5%                 |                      |
| R....18 | 57.11.4689 | 6.8 Ohm   | 5%                 |                      |
| R....19 | 57.11.4689 | 6.8 Ohm   | 5%                 |                      |
| R....20 | 57.11.4821 | 820 Ohm   | 2%                 |                      |
| R....21 | 57.11.4821 | 820 Ohm   | 2%                 |                      |
| R....22 | 57.11.4161 | 160 Ohm   | 2%                 |                      |
| R....23 | 57.11.4161 | 160 Ohm   | 2%                 |                      |
| R....24 | 57.11.4561 | 560 Ohm   | 2%                 |                      |
| R....25 | 57.11.4561 | 560 Ohm   | 2%                 |                      |
| R....26 | 57.11.4102 | 1 kOhm    | 2%                 |                      |
| R....27 | 57.11.4103 | 10 kOhm   | 2%                 |                      |
| R....28 | 57.11.4103 | 10 kOhm   | 2%                 |                      |
| R....29 | 57.11.4222 | 2.2 kOhm  | 2%                 |                      |
| R....30 | 57.11.4222 | 2.2 kOhm  | 2%                 |                      |
| R....31 | 57.11.4102 | 1 kOhm    | 2%                 |                      |
| R....32 | 57.11.4222 | 2.2 kOhm  | 2%                 |                      |
| R....33 | 57.11.4563 | 56 kOhm   | 2%                 |                      |
| R....34 | 57.11.4102 | 1 kOhm    | 2%                 |                      |
| R....35 | 57.11.4102 | 1 kOhm    | 2%                 |                      |
| R....36 | 57.11.4152 | 1.5 kOhm  | 2%                 |                      |
| R....37 | 57.11.4272 | 2.7 kOhm  | 2%                 |                      |

Note 1 - Connector: AMP Nr. --163.680-6

Note 2 - Connector: Yamachi Nr. FAP-16-08//4  
 Burndy Nr. BPH 9 B 16 800 GS

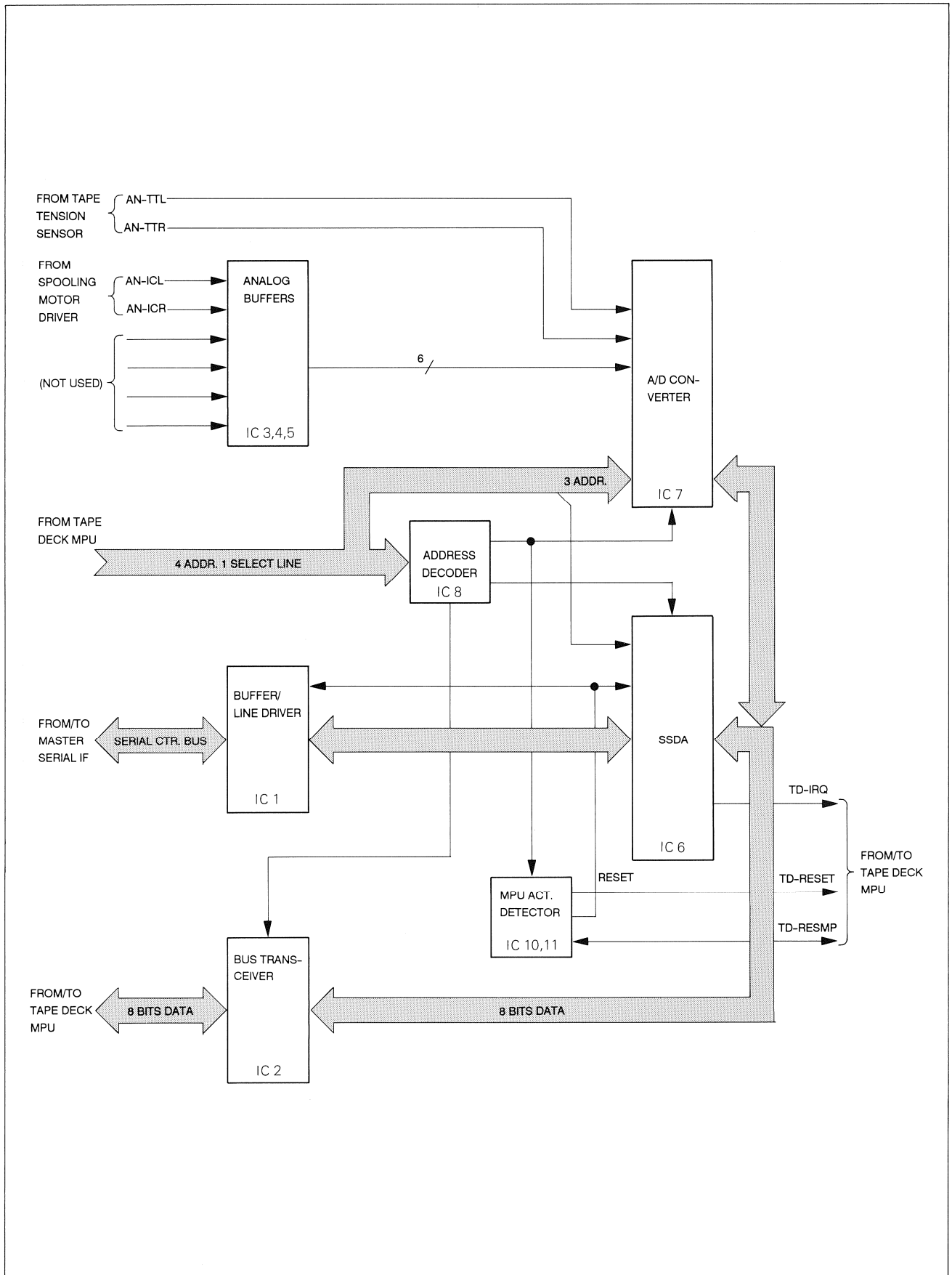
El=Electrolytic, PP=Polypropylene

Manufacturer: Fc=Fairchild, ITT=Intermetall, Mot=Motorola, Op=Optron,  
 Ph=Philips, Ses=Secosem, SGS=SGS/Ates, Sie=Siemens,  
 Tf=Telefunken, Ti=Texas Instruments, To=Toshiba.

1.820.773.83 TAPE LIFTER CONTROL VF 91/03/2800

**BLOCK DIAGRAM**

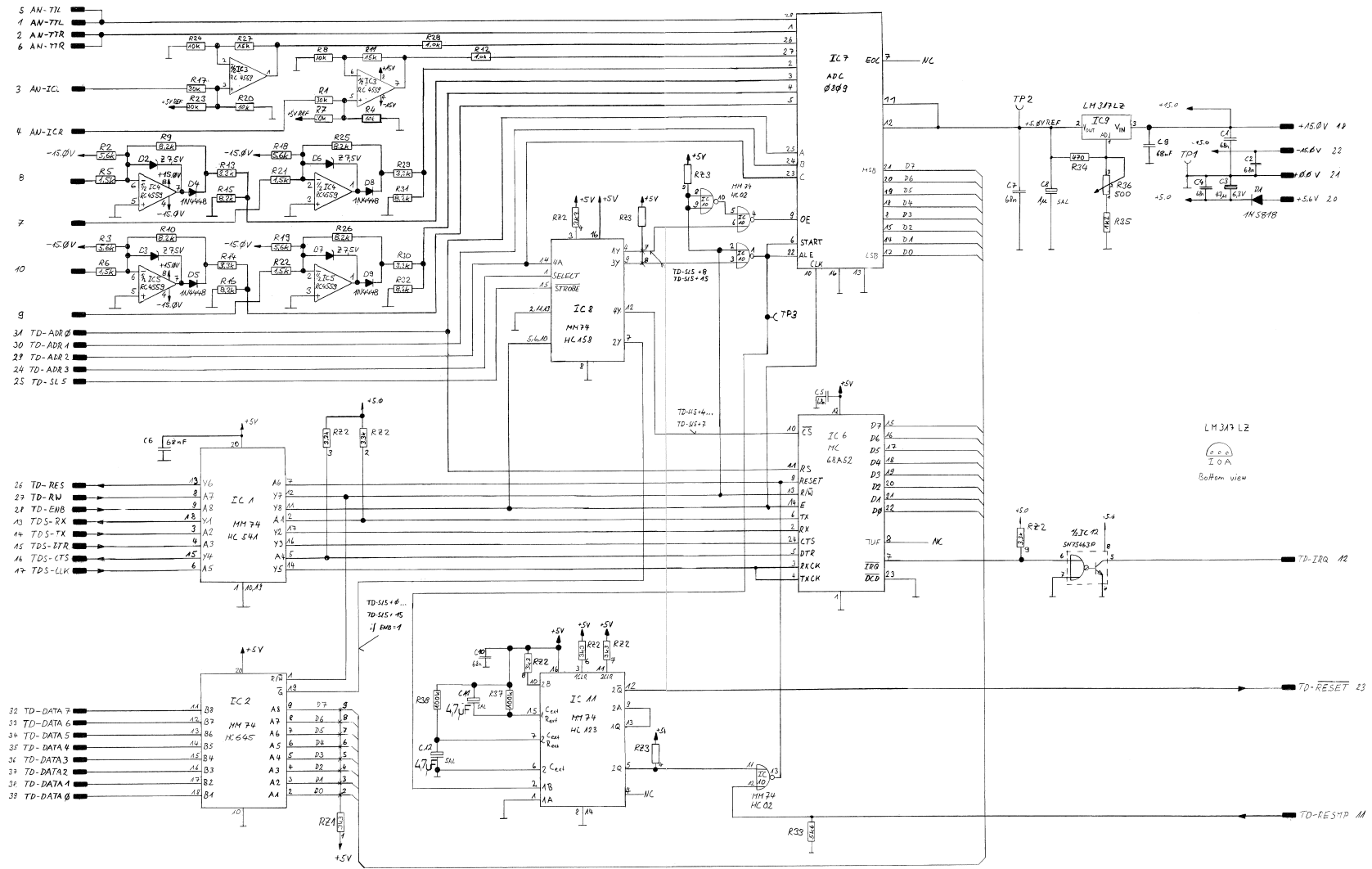
Tape Deck Serial Interface 1.820.763



STUDER D827 MCH



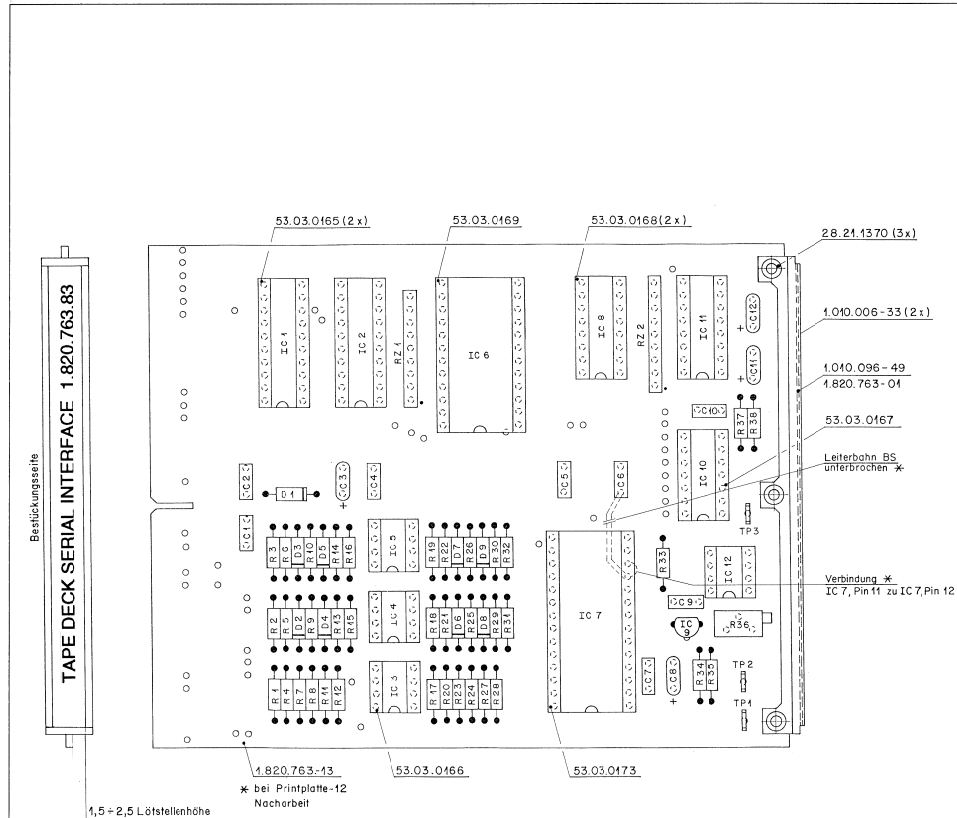
TAPE DECK SERIAL INTERFACE 1.820.763.83



R23 not used

|          |     |          |         |                            |        |              |
|----------|-----|----------|---------|----------------------------|--------|--------------|
| 30.11.87 | IVA | 19.09.89 | HAESSIG | D827 MCH Logic Section     |        |              |
| STUDER   |     |          |         | Tape Deck Serial Interface | ESE/SC | 1.820.763.83 |
|          |     |          |         |                            | PAGE   | 1 OF 1       |

TAPE DECK SERIAL INTERFACE 1.820.763.83



|                |         |
|----------------|---------|
| Zeichnungs-Nr. |         |
| Datum          | 19.9.89 |
| Gez.           |         |
| Gek.           |         |
| Gek.           |         |
| Index          |         |

|                               |  |                      |
|-------------------------------|--|----------------------|
| STUDER<br>REGNSDORF<br>ZÜRICH | Bezeichnung: TAPE DECK SERIAL<br>INTERFACE ESE | Nummer: 1.820.763-83 |
|-------------------------------|--|----------------------|

Ad . . . POS. . . . REF. No. . . . DESCRIPTION . . . . . MANUFACTURER

|          |            |           |                     |    |                                |
|----------|------------|-----------|---------------------|----|--------------------------------|
| C....1   | 59.06.0683 | 68 nF     | 20%                 |    | NS, Mot                        |
| C....2   | 59.06.0683 | 88 nF     | 20%                 |    | NS, Mot                        |
| C....3   | 59.42.0470 | 47 uF     | 20%                 |    | Ph                             |
| C....4   | 59.06.0683 | 68 nF     | 20%                 |    | NS, Mot                        |
| C....5   | 59.06.0683 | 88 nF     | 20%                 |    | NS, Mot                        |
| C....6   | 59.06.0683 | 68 nF     | 20%                 |    | NS, Mot                        |
| C....7   | 59.06.0683 | 68 nF     | 20%                 |    | NS, Mot                        |
| C....8   | 59.26.9109 | 1.0 uF    | 20%                 |    | Ph                             |
| C....9   | 59.06.0683 | 68 nF     | 20%                 |    | NS, Mot                        |
| C....10  | 59.06.0683 | 68 nF     | 20%                 |    | NS, Mot                        |
| C....11  | 59.25.1479 | 4.7 uF    | 20%                 |    | Ph                             |
| C....12  | 59.26.1479 | 4.7 uF    | 20%                 |    | Ph                             |
| D....1   | 50.04.0512 | 1N 5818   | 1N 5819             |    | Mot                            |
| D....2   | 50.04.1103 | 7.5 V     | 5%, .40W, Z, planar |    | ITT, Ses                       |
| D....3   | 50.04.1103 | 7.5 V     | 5%, .40W, Z, planar |    | ITT, Ses                       |
| D....4   | 50.04.0125 | 1N 4448   | SI                  |    | Fc, ITT, Ph, Ses, Tf           |
| D....5   | 50.04.0125 | 1N 4448   | SI                  |    | Fc, ITT, Ph, Ses, Tf           |
| D....6   | 50.04.1103 | 7.5 V     | 5%, .40W, Z, planar |    | ITT, Ses                       |
| D....7   | 50.04.1103 | 7.5 V     | 5%, .40W, Z, planar |    | ITT, Ses                       |
| D....8   | 50.04.0125 | 1N 4448   | SI                  |    | Fc, ITT, Ph, Ses, Tf           |
| D....9   | 50.04.0125 | 1N 4448   | SI                  |    | Fc, ITT, Ph, Ses, Tf           |
| IC....1  | 50.17.1541 | 74HC 541  |                     |    | Mot, NS, Ph, RCA, SGS, TI, To  |
| IC....2  | 50.17.1645 | 74HC 645  |                     |    | Mot, NS, Ph, RCA, SGS, TI, To  |
| IC....3  | 50.09.0107 | RC4559 NB |                     |    | NEC, Ra                        |
| IC....4  | 50.09.0107 | RC4559 NB |                     |    | NEC, Ra                        |
| IC....5  | 50.09.0107 | RC4559 NB |                     |    | NEC, Ra                        |
| IC....6  | 50.16.0114 | MC68A55P  |                     |    | AMI, Hi, Mot                   |
| IC....7  | 50.19.0101 | ADC 0909  |                     |    | N 58990 P                      |
| IC....8  | 50.17.1158 | 74HC 158  |                     |    | Mot, Nat, Ph, RCA, SGS, TI, To |
| IC....9  | 50.10.0108 | LM317Z    |                     |    | Y-Reg. Mot, Nat                |
| IC....10 | 50.17.1092 | 74HC 02   |                     |    | Mot, Nat, Ph, RCA, SGS, TI, To |
| IC....11 | 50.17.1123 | 74HC 123  |                     |    | Ph, RCA, SGS, To               |
| IC....12 | 50.05.0203 | SN74663P  |                     |    | NS, TI                         |
| R....1   | 57.11.3503 | 30        | kOhm                | 2% |                                |
| R....2   | 57.11.3562 | 5.6       | kOhm                | 5% |                                |
| R....3   | 57.11.3562 | 5.6       | kOhm                | 5% |                                |
| R....4   | 57.11.3103 | 10        | kOhm                | 2% |                                |
| R....5   | 57.11.3152 | 1.5       | kOhm                | 5% |                                |
| R....6   | 57.11.3152 | 1.5       | kOhm                | 5% |                                |
| R....7   | 57.11.3503 | 30        | kOhm                | 2% |                                |
| R....8   | 57.11.3103 | 10        | kOhm                | 2% |                                |
| R....9   | 57.11.3822 | 8.2       | kOhm                | 5% |                                |
| R....10  | 57.11.3822 | 8.2       | kOhm                | 5% |                                |
| R....11  | 57.11.3153 | 15        | kOhm                | 2% |                                |
| R....12  | 57.11.3102 | 1.0       | kOhm                | 5% |                                |
| R....13  | 57.11.3332 | 3.3       | kOhm                | 5% |                                |
| R....14  | 57.11.3332 | 3.3       | kOhm                | 5% |                                |
| R....15  | 57.11.3822 | 8.2       | kOhm                | 5% |                                |
| R....16  | 57.11.3822 | 8.2       | kOhm                | 5% |                                |
| R....17  | 57.11.3503 | 30        | kOhm                | 2% |                                |
| R....18  | 57.11.3562 | 5.6       | kOhm                | 5% |                                |
| R....19  | 57.11.3562 | 5.6       | kOhm                | 5% |                                |
| R....20  | 57.11.3103 | 10        | kOhm                | 2% |                                |
| R....21  | 57.11.3152 | 1.5       | kOhm                | 5% |                                |
| R....22  | 57.11.3152 | 1.5       | kOhm                | 5% |                                |
| R....23  | 57.11.3303 | 30        | kOhm                | 2% |                                |
| R....24  | 57.11.3103 | 10        | kOhm                | 2% |                                |
| R....25  | 57.11.3822 | 8.2       | kOhm                | 5% |                                |
| R....26  | 57.11.3822 | 8.2       | kOhm                | 5% |                                |
| R....27  | 57.11.3153 | 15        | kOhm                | 2% |                                |
| R....28  | 57.11.3102 | 1.0       | kOhm                | 5% |                                |
| R....29  | 57.11.3332 | 3.3       | kOhm                | 5% |                                |
| R....30  | 57.11.3332 | 3.3       | kOhm                | 5% |                                |
| R....31  | 57.11.3822 | 8.2       | kOhm                | 5% |                                |
| R....32  | 57.11.3822 | 8.2       | kOhm                | 5% |                                |
| R....33  | 57.11.3562 | 5.6       | kOhm                | 5% |                                |
| R....34  | 57.11.3471 | 470       | Ohm                 | 2% |                                |
| R....35  | 57.11.3122 | 1.2       | kOhm                | 2% |                                |
| R....36  | 58.05.0501 | 500       | Ohm                 |    | Potentiometer see note 1       |
| R....37  | 57.11.3104 | 100       | kOhm                | 5% |                                |
| R....38  | 57.11.3104 | 100       | kOhm                | 5% |                                |
| RZ....1  | 57.88.4332 | 8*3.3kOhm | 10%                 |    |                                |
| RZ....2  | 57.88.4332 | 8*3.3kOhm | 10%                 |    |                                |
| RZ....3  | 00.00.0000 | not used  |                     |    |                                |
| TP....1  | 54.02.0320 | 2.8* 0.8  | soldering test pin  |    |                                |
| TP....2  | 54.02.0320 | 2.8* 0.8  | soldering test pin  |    |                                |
| TP....3  | 54.02.0320 | 2.8* 0.8  | soldering test pin  |    |                                |

Note 1 - Potentiometer : 500 Ohm, 10%, .5W, PWS

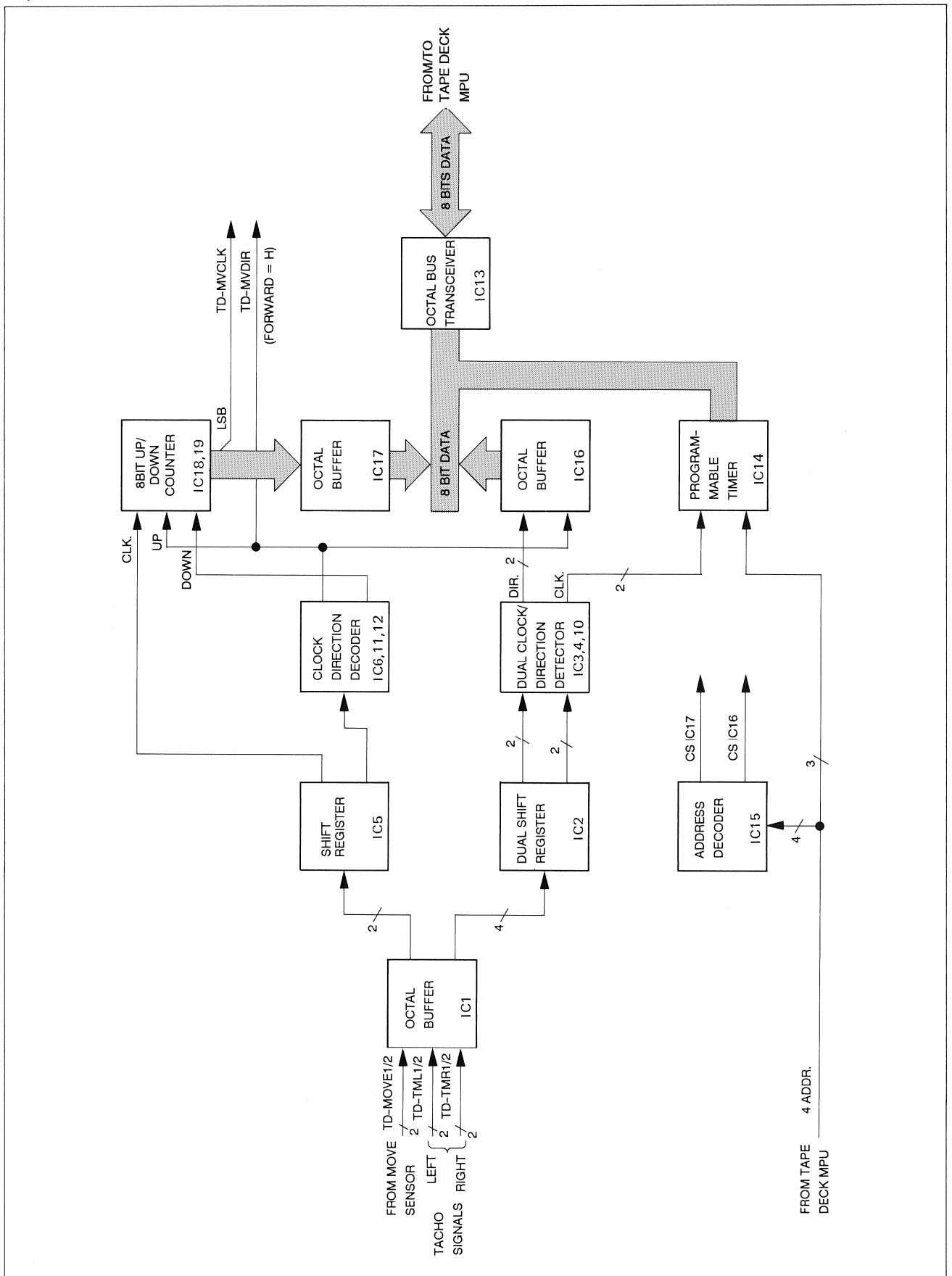
- Bourns 3296 Z - 1 - 501
- Spectral 64 Z 501 T 000
- Murata POT 3105 Z - 1 - 501
- Contelec 183 XZ 501

Manufacturer: AMI=American Microsystem Inc., Fc=Fairchild, Hi=Hitachi, Mot=Motorola, Nat=National (Matsushita), NEC=Nippon Electric Corp., NS=National Semiconductors, Ph=Philips (incl. Valvo), Ra=Raytheon, RCA=Radio Corporation of America, Sem=Semcosem, SGS=SGS/Ates, TI=Texas Instrument, To=Toshiba.



**BLOCK DIAGRAM**

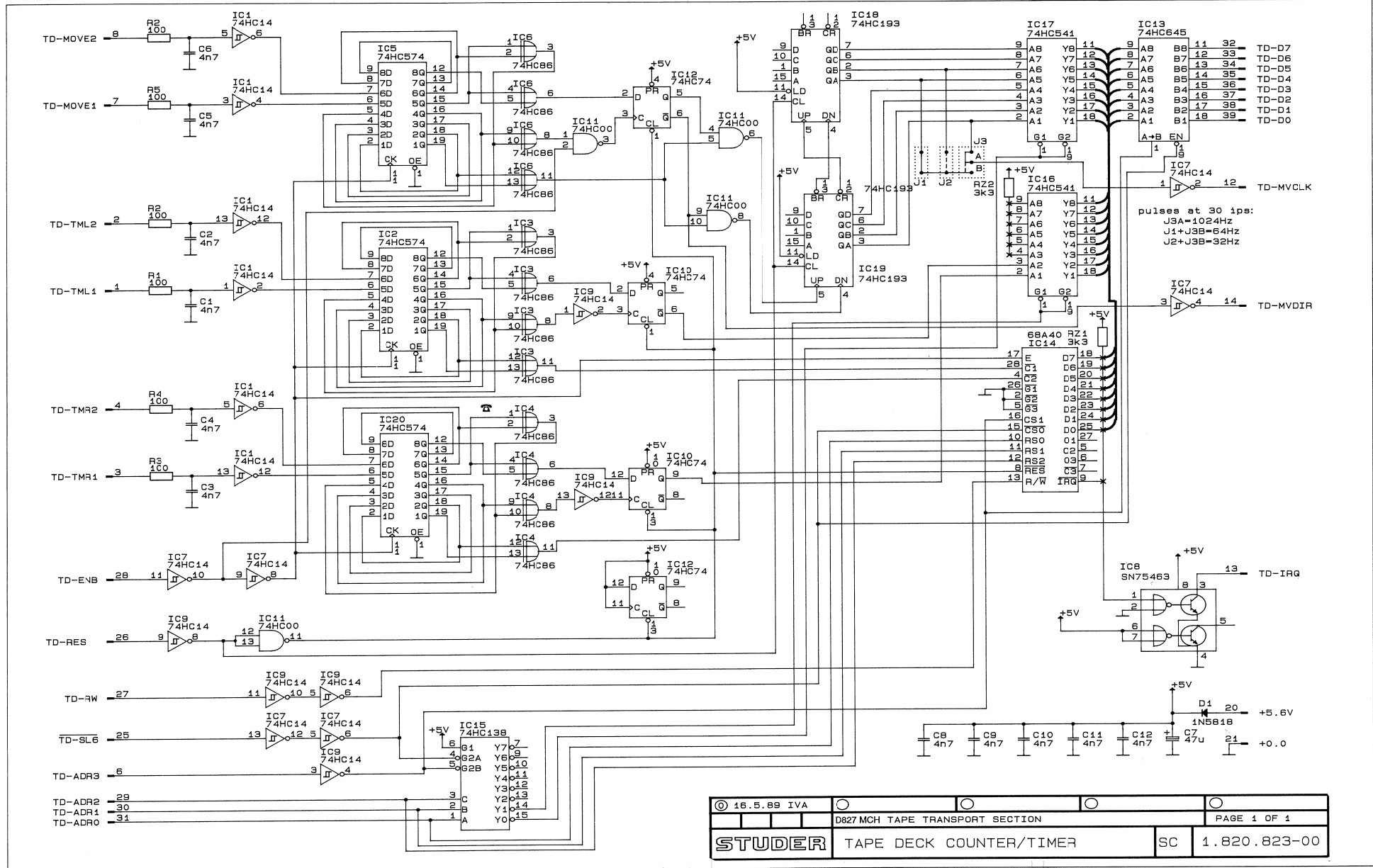
Tape Deck Counter / Timer 1.820.823



STUDER D827 MCH

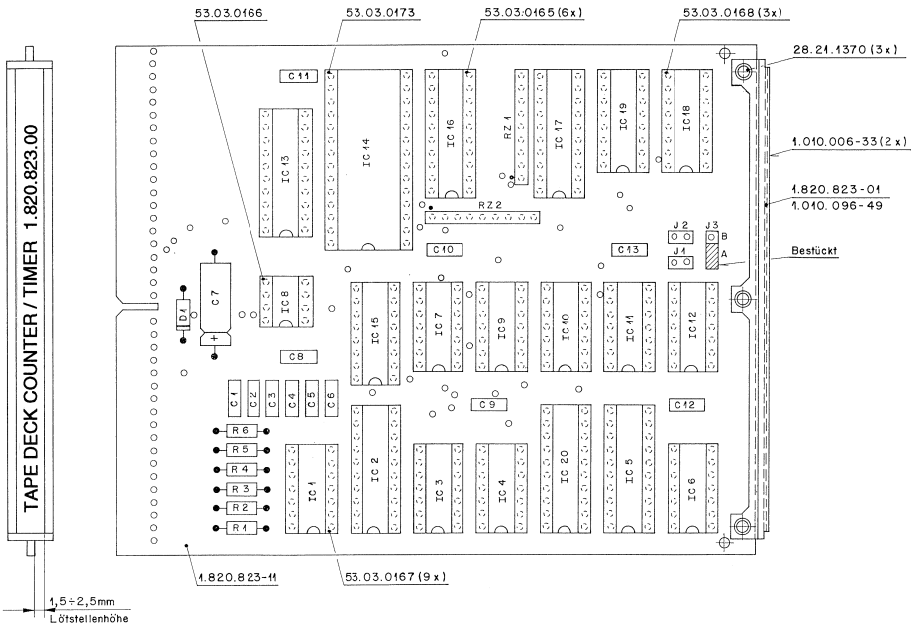


TAPE DECK COUNTER / TIMER 1.820.823.00



|               |                                 |                 |
|---------------|---------------------------------|-----------------|
| © 16.5.89 IVA | D827 MCH TAPE TRANSPORT SECTION | PAGE 1 OF 1     |
| <b>STUDER</b> | TAPE DECK COUNTER/TIMER         | SC 1.820.823-00 |

TAPE DECK COUNTER / TIMER 1.820.823.00



Ad ..POS.. REF.No.. DESCRIPTION.....MANUFACTURER

| Ad                    | POS.       | REF.No.                                | DESCRIPTION                         | MANUFACTURER            |
|-----------------------|------------|--|-------------------------------------|-------------------------|
| D....1                | 50.04.0512 | IN 6818                                | IN 6819                             | Mot                     |
| C....1                | 59.06.0472 | 4,7 nF                                 | 10%, 63V, PETP                      |                         |
| C....2                | 59.06.0472 | 4,7 nF                                 | 10%, 63V, PETP                      |                         |
| C....3                | 59.06.0472 | 4,7 nF                                 | 10%, 63V, PETP                      |                         |
| C....4                | 59.06.0472 | 4,7 nF                                 | 10%, 63V, PETP                      |                         |
| C....5                | 59.06.0472 | 4,7 nF                                 | 10%, 63V, PETP                      |                         |
| C....6                | 59.06.0472 | 4,7 nF                                 | 10%, 63V, PETP                      |                         |
| C....7                | 59.25.3470 | 47 uF                                  | 16V, EI                             |                         |
| C....8                | 59.06.0683 | 68 nF                                  | 10%, 63V, PETP                      |                         |
| C....9                | 59.06.0683 | 68 nF                                  | 10%, 63V, PETP                      |                         |
| C....10               | 59.06.0683 | 68 nF                                  | 10%, 63V, PETP                      |                         |
| C....11               | 59.06.0683 | 68 nF                                  | 10%, 63V, PETP                      |                         |
| C....12               | 59.06.0683 | 68 nF                                  | 10%, 63V, PETP                      |                         |
| C....13               | 59.06.0683 | 68 nF                                  | 10%, 63V, PETP                      |                         |
| IC...1                | 50.17.1014 | 74 HC 14                               | .. 74 HC 14 .                       | Mot,NS,Ph,RCA,SGS,TI,To |
| IC...2                | 50.17.1374 | 74 HC 574                              | .. 74 HC 574 .                      | Mot,NS,Ph,RCA,SGS,TI,To |
| IC...3                | 50.17.1086 | 74 HC 86                               | .. 74 HC 86 .                       | Mot,NS,Ph,RCA,SGS,TI,To |
| IC...4                | 50.17.1086 | 74 HC 86                               | .. 74 HC 86 .                       | Mot,NS,Ph,RCA,SGS,TI,To |
| IC...5                | 50.17.1374 | 74 HC 574                              | .. 74 HC 574 .                      | Mot,NS,Ph,RCA,SGS,TI,To |
| IC...6                | 50.17.1086 | 74 HC 86                               | .. 74 HC 86 .                       | Mot,NS,Ph,RCA,SGS,TI,To |
| IC...7                | 50.17.1014 | 74 HC 14                               | .. 74 HC 14 .                       | Mot,NS,Ph,RCA,SGS,TI,To |
| IC...8                | 50.05.0203 | SN 75463 P                             | SN 75463 JG, SN 55463 JG, DS 3613 N | NS,TI                   |
| IC...9                | 50.17.1014 | 74 HC 14                               | .. 74 HC 14 .                       | Mot,NS,Ph,RCA,SGS,TI,To |
| IC...10               | 50.17.1074 | 74 HC 74                               | .. 74 HC 74 .                       | Mot,NS,Ph,RCA,SGS,TI,To |
| IC...11               | 50.17.1000 | 74 HC 00                               | .. 74 HC 00 .                       | Mot,NS,Ph,RCA,SGS,TI,To |
| IC...12               | 50.17.1074 | 74 HC 74                               | .. 74 HC 74 .                       | Mot,NS,Ph,RCA,SGS,TI,To |
| IC...13               | 50.17.1648 | 74 HC 648                              | .. 74 HC 648 .                      | Mot,NS,Ph,RCA,SGS,TI,To |
| IC...14               | 50.16.0113 | MC 688 40P                             | HD 588 40P                          | Hi,Mot                  |
| IC...15               | 50.17.1138 | 74 HC 138                              | .. 74 HC 138 .                      | Mot,NS,Ph,RCA,SGS,TI,To |
| IC...16               | 50.17.1541 | 74 HC 541                              | .. 74 HC 541 .                      | Mot,NS,Ph,RCA,SGS,TI,To |
| IC...17               | 50.17.1541 | 74 HC 541                              | .. 74 HC 541 .                      | Mot,NS,Ph,RCA,SGS,TI,To |
| IC...18               | 50.17.1193 | 74 HC 193                              | .. 74 HC 193 .                      | Mot,NS,Ph,RCA,SGS,TI,To |
| IC...19               | 50.17.1193 | 74 HC 193                              | .. 74 HC 193 .                      | Mot,NS,Ph,RCA,SGS,TI,To |
| IC...20               | 50.17.1574 | 74 HC 574                              | .. 74 HC 574 .                      | Mot,NS,Ph,RCA,SGS,TI,To |
| J....1                | 00.00.0000 | note used                              |                                     |                         |
| J....2                | 00.00.0000 | note used                              |                                     |                         |
| J....3                | 00.00.0000 | see note 1                             |                                     |                         |
| R....1                | 57.11.3101 | 100 Ohm                                | 1%                                  |                         |
| R....2                | 57.11.3101 | 100 Ohm                                | 1%                                  |                         |
| R....3                | 57.11.3101 | 100 Ohm                                | 1%                                  |                         |
| R....4                | 57.11.3101 | 100 Ohm                                | 1%                                  |                         |
| R....5                | 57.11.3101 | 100 Ohm                                | 1%                                  |                         |
| R....6                | 57.11.3101 | 100 Ohm                                | 1%                                  |                         |
| RZ...1                | 57.88.4332 | Network, 8 * 3.3 kOhm, 5%, single line |                                     |                         |
| RZ...2                | 57.88.4332 | Network, 8 * 3.3 kOhm, 5%, single line |                                     |                         |
| Note 1 - Contact pin: |            | Studer                                 | Nr. 54.01.0020                      |                         |
|                       |            | Berg                                   | Nr. 75 160-102-36                   |                         |
|                       |            | Philips                                | Nr. 2422 026 99303                  |                         |
| Bridge:               |            | Studer                                 | Nr. 54.01.0021                      |                         |
|                       |            | Berg                                   | Nr. 65 474-001                      |                         |
|                       |            | Philips                                | Nr. 2422 024 88003                  |                         |

PETP=Polyesterfilm, EI=Electrolytic

MANUFACTURER: HI=Hitachi, Mot=Motorola, NS=National Semiconductors,  
Ph=Philips, RCA=RCA Corporation, SGS=SGS/Ates,  
TI=Texas Instruments, To=Toshiba.

1.820.823.00 TAPE DECK COUNTER/TIMER BD 38/10/2700

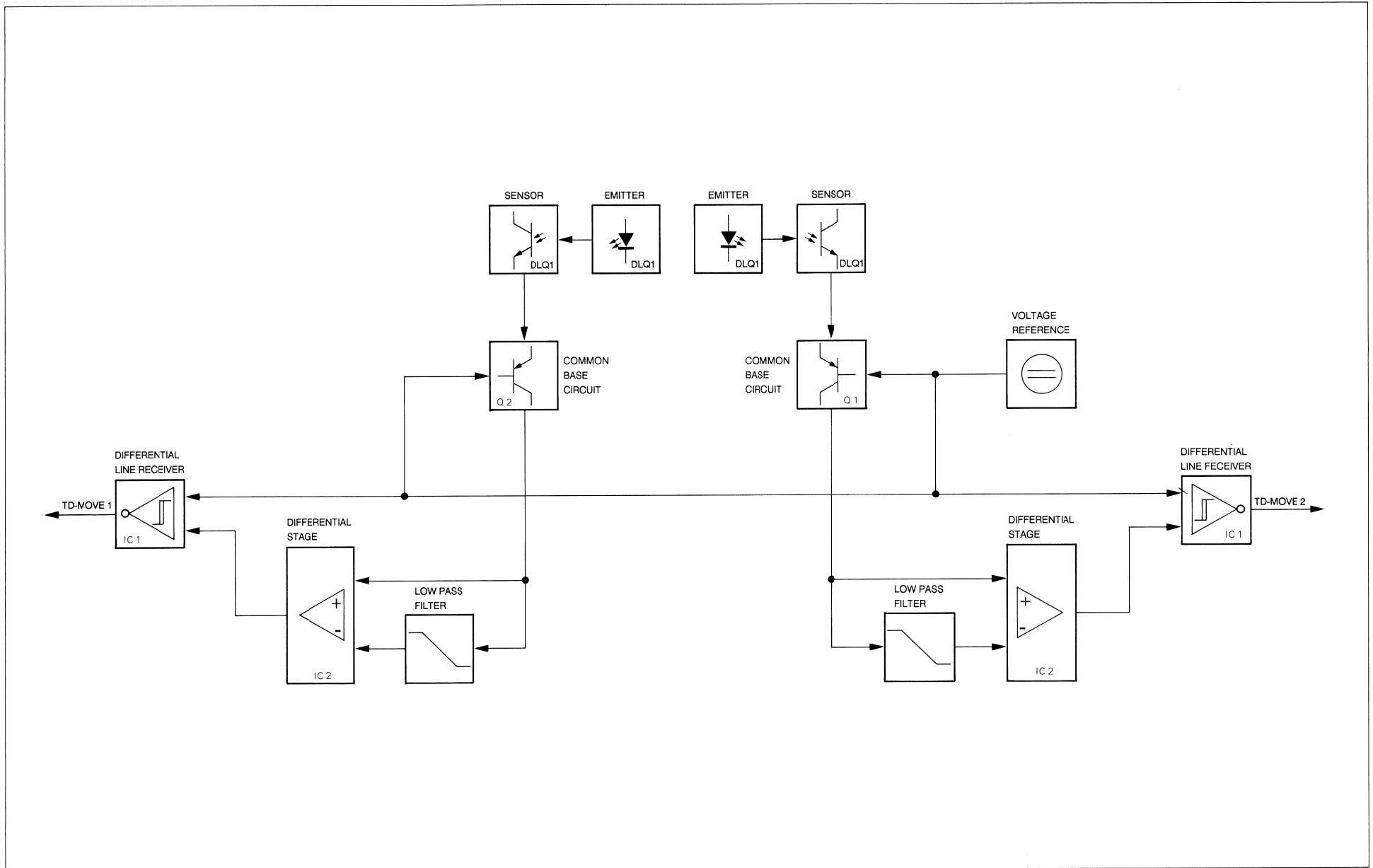
| Änderung | Angabe | Datum | Gez. | Gepr. | Ges. | Index |
|----------|--------|-------|------|-------|------|-------|
|          |        |       |      |       |      |       |
|          |        |       |      |       |      |       |
|          |        |       |      |       |      |       |
|          |        |       |      |       |      |       |
|          |        |       |      |       |      |       |

|                                |   |     |              |
|--------------------------------|---|-----|--------------|
| STUDER<br>REGENSDORF<br>ZÜRICH | Benennung: TAPE DECK COUNTER /<br>TIMER | ESE | 1.820.823-00 |
| Kopie für:                     |   |     |              |
| Zurück:                        |   |     |              |
| Anzahl:                        |   |     |              |
| Datum:                         |   |     |              |
| Gez.:                          |   |     |              |
| Gepr.:                         |   |     |              |
| Gek.:                          |   |     |              |
| Index:                         |   |     |              |

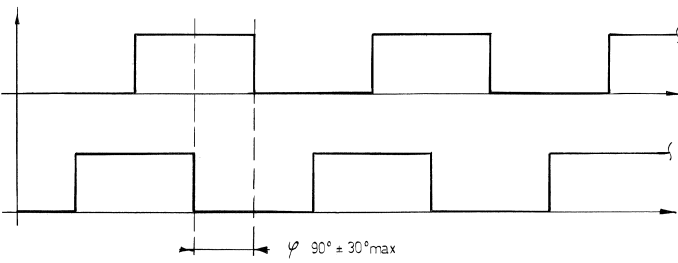
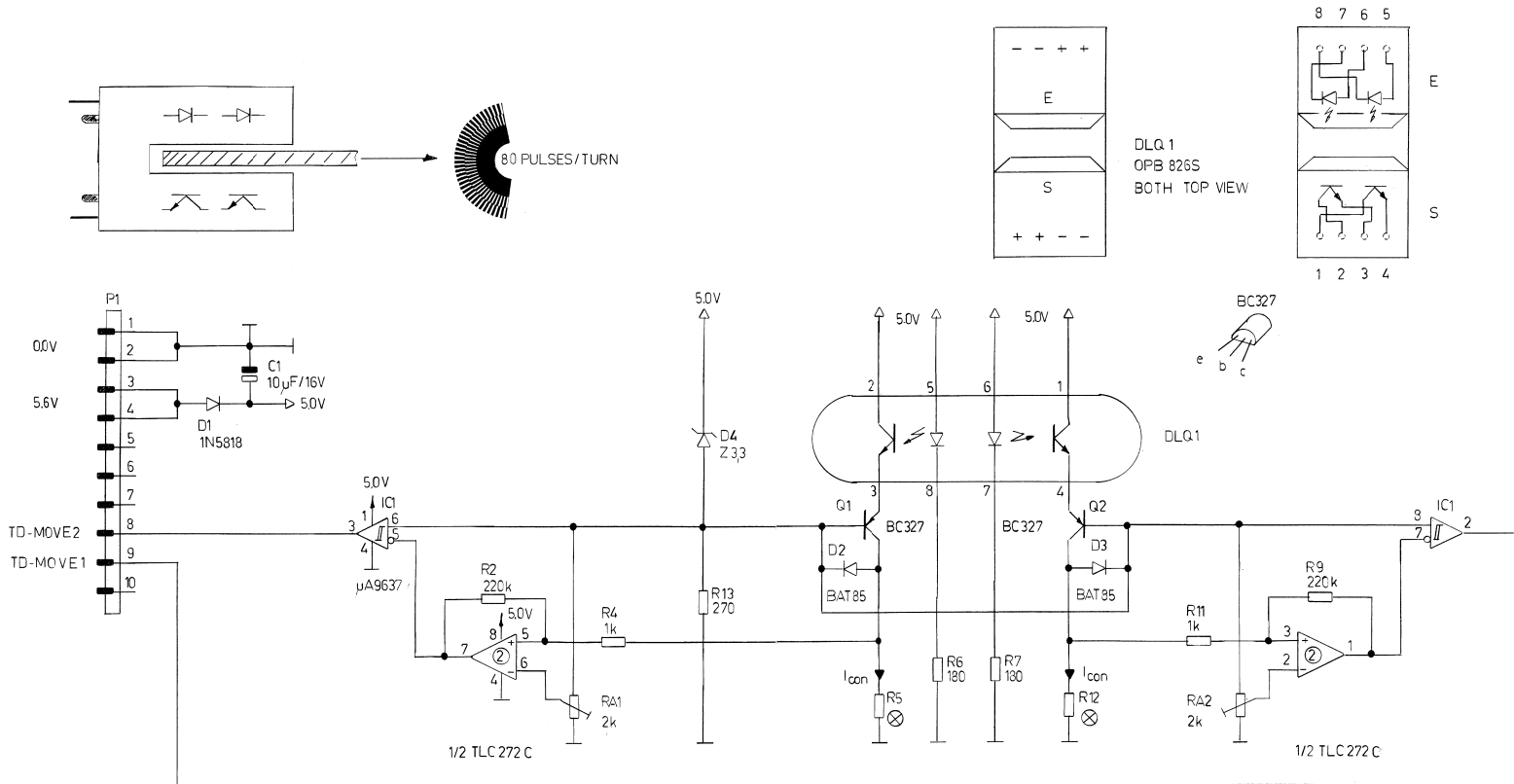
**BLOCK DIAGRAM**

Move Sensor Board 1.820.770

Motor Tacho Board 1.820.771



MOVE SENSOR ASSEMBLY 1.863.185.00  
 -Move Sensor Board 1.820.770.82



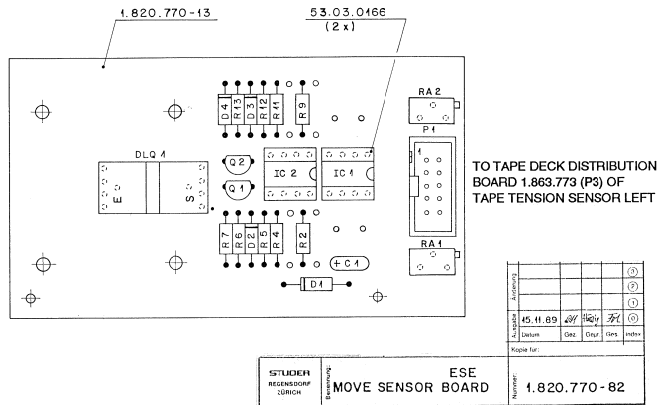
⊗ R5/R12 factory adjusted according to following table  
 coupling measured without tacho disk  
 $I_{con}$  measurement R5/ R12 replaced by digital milliampere meter

|           |             |             |             |             |         |         |        |        |        |        |       |
|-----------|-------------|-------------|-------------|-------------|---------|---------|--------|--------|--------|--------|-------|
| $I_{con}$ | 250 $\mu$ A | 360 $\mu$ A | 520 $\mu$ A | 720 $\mu$ A | 1,07 mA | 1,55 mA | 2,2 mA | 3,1 mA | 4,6 mA | 6,5 mA | 10 mA |
| R5 / R12  | 7k5         | 5k1         | 3k6         | 2k4         | 1k6     | 1k2     | 820    | 560    | 390    | 270    |       |

|                 |             |                 |
|-----------------|-------------|-----------------|
| 15,11,89 ZOLLER | D827 MCH    | PAGE 1 OF 1     |
| STUDER          | MOVE SENSOR | SC 1.820.770.82 |

MOVE SENSOR ASSEMBLY 1.863.185.00

-Move Sensor Board 1.820.770.82



Ad .POS. . . . . REF.No. . . . . DESCRIPTION . . . . . MANUFACTURER

|                                 |              |                  |                    |                      |
|---------------------------------|--------------|------------------|--------------------|----------------------|
| C....1                          | 59.26.2100   | 10 uf            | 20%, 16V, Sal      |                      |
| C....2                          | 00.00.0000   | not used         |                    |                      |
| C....3                          | 00.00.0000   | not used         |                    |                      |
| D....1                          | 50.04.0512   | 1N 5818          | 1N 5918            | Mo                   |
| D....2                          | 50.04.0127   | BAT 42           | BAT 85, BAS 40-02, | Ph, Sie, Tho         |
| D....3                          | 50.04.0127   | BAT 42           | BAT 85, BAS 40-02, | Ph, Sie, Tho         |
| D....4                          | 50.04.1107   | 3,3V Z           | BZX 55-C3V3        | ITT, Mo, Ph, Tf, Tho |
| DLQ...1                         | 50.99.0166   | OPB 826          |                    | Op                   |
| IC....1                         | 50.15.0114   | uA9637ACP        | 9637 A°C           | Fc, TI               |
| IC....2                         | 50.05.0286   | LM 358 N         | LM 358 P           | NS, Mo, SGS, TI      |
| 01 IC....2                      | 50.09.0122   | TLC 272 C        | TS 272 CN          | SGS, TI              |
| P.....1                         | 54.14.2001   | 10 cont.         | see note 1         |                      |
| Q....1                          | 50.03.0351   | BC 327-25        |                    | ITT, Ph, Sie         |
| Q....2                          | 50.03.0351   | BC 327-25        |                    | ITT, Ph, Sie         |
| R....1                          | 00.00.0000   | not used         |                    |                      |
| R....2                          | 57.11.3224   | 220 kOhm         | 1%                 |                      |
| R....3                          | 00.00.0000   | not used         |                    |                      |
| R....4                          | 57.11.3102   | 1 kOhm           | 1%                 |                      |
| R....5                          | 00.00.0000   | factory          | adjusted           |                      |
| R....6                          | 57.11.3181   | 180 Ohm          | 1%                 |                      |
| R....7                          | 57.11.3181   | 180 Ohm          | 1%                 |                      |
| R....8                          | 00.00.0000   | not used         |                    |                      |
| R....9                          | 57.11.3224   | 220 kOhm         | 1%                 |                      |
| R....10                         | 00.00.0000   | not used         |                    |                      |
| R....11                         | 57.11.3102   | 1 kOhm           | 1%                 |                      |
| R....12                         | 00.00.0000   | factory          | adjusted           |                      |
| R....13                         | 57.11.3271   | 270 Ohm          | 1%                 |                      |
| RA...1                          | 58.05.0202   | 2 kOhm           | 10% multi turn     |                      |
| RA...2                          | 58.05.0202   | 2 kOhm           | 10% multi turn     |                      |
| (01) 11.01.90 Printout error    |              |                  |                    |                      |
| Note 1 - Connector 10 contacts: |              |                  |                    |                      |
|                                 | famaichi nr. | FAP-10-08-40SS   |                    |                      |
|                                 | burndy nr.   | BPH 9 810 800 GS |                    |                      |
|                                 | 3M nr.       | 7610-6002 VZ     |                    |                      |

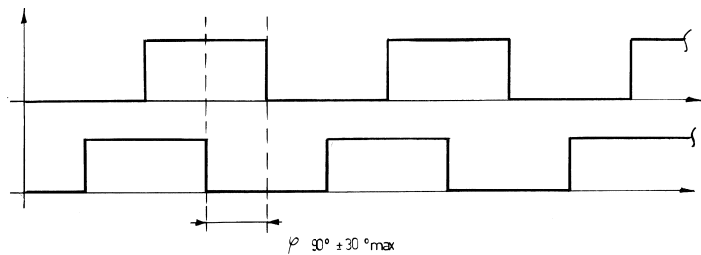
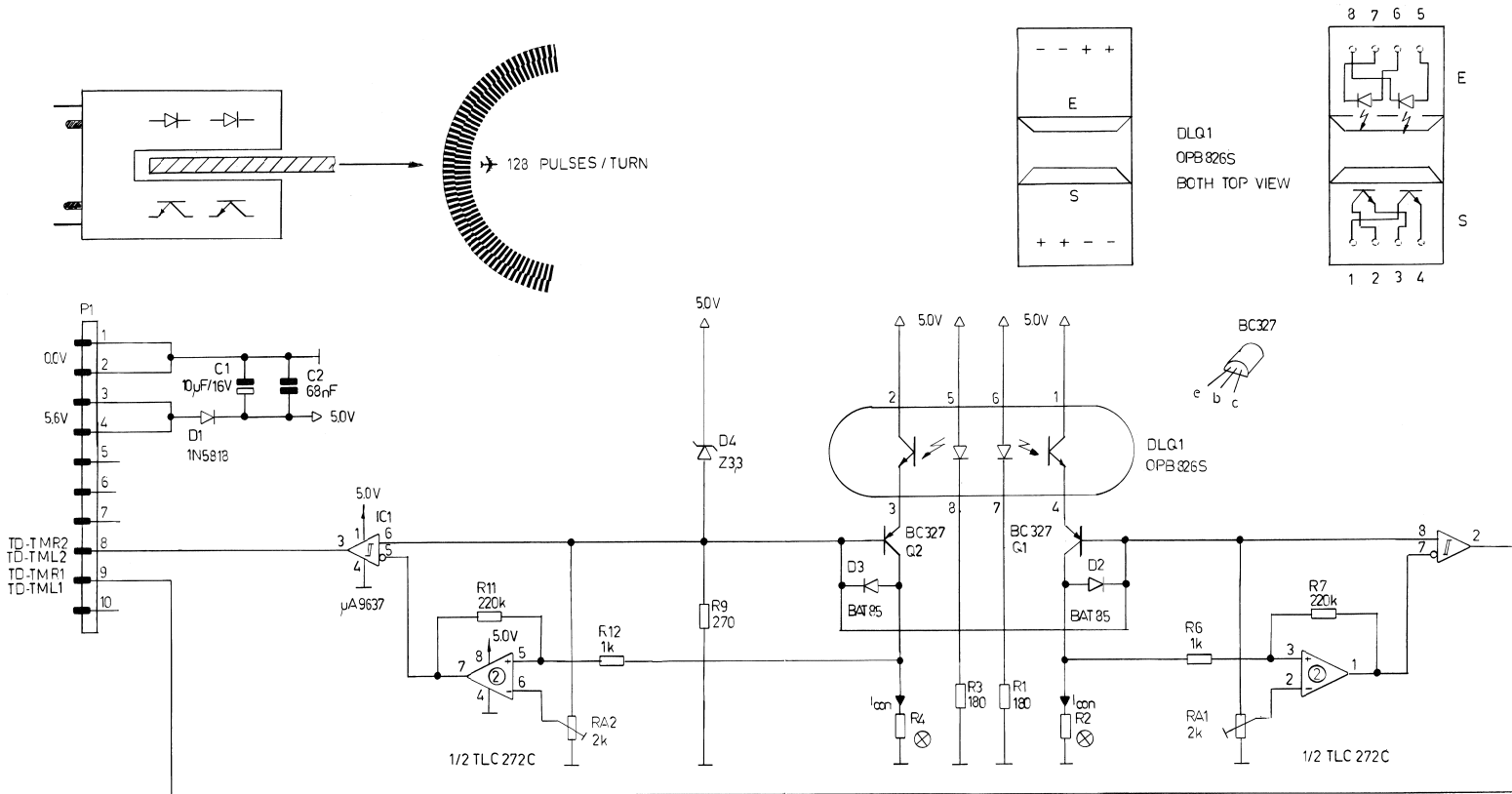
E1=Electrolytic, Sal=Solid aluminium

MANUFACTURER: Fc=Fairchild, ITT=Intermetall, Mo=Motorola, NS=National Semiconductor, Op=Opton, Ph=Phillips, SGS=SGS/Atas, Sie=Siemens, Tf=Telefunken, Tho=Thomson, TI=Texas Instrument.

1.820.770.82 MOVE SENSOR PZ 89/11/1500  
 1.820.770.82 MOVE SENSOR PZ 90/01/1101

SPOOLING MOTOR (LEFT OR RIGHT) 1.863.190.00

-Motor Tacho Board 1.820.771.84

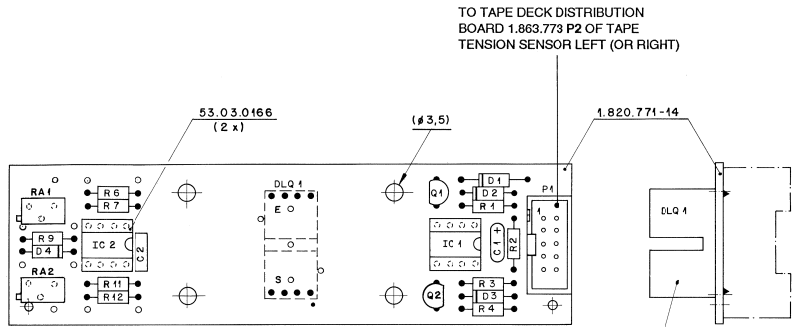


⊗ R2/R4 factory adjusted according to following table  
coupling measured without tacho disk  
I<sub>con</sub> measurement R2/R4 replaced by digital milliamperemeter

|                  |       |       |       |       |       |       |       |      |      |      |      |
|------------------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| I <sub>con</sub> | 250μA | 360μA | 520μA | 720μA | 107mA | 155mA | 2,2mA | 31mA | 46mA | 65mA | 10mA |
| R2/R4            | 7k5   | 5k1   | 3k6   | 2k4   | 1k6   | 1k2   | 820   | 560  | 390  | 270  |      |

|                 |             |                 |
|-----------------|-------------|-----------------|
| 15.11.89 ZOLLER | D827 MCH    | PAGE 1 OF 1     |
| STUDER          | MOTOR TACHO | SC 1.820.771.84 |

SPOOLING MOTOR (LEFT OR RIGHT) 1.863.190.00  
-Motor Tacho Board 1.820.771.84



TO TAPE DECK DISTRIBUTION BOARD 1.863.773 P2 OF TAPE TENSION SENSOR LEFT (OR RIGHT)

53.03.0166 (2 x)

( $\phi$  3,5)

1.820.771-14

DLQ4 satt aufliegend auf Lötseite montiert. Nach der Montage, beschichtet mit Epoxid - Lack nach BV 682. Hierbei 4 Bohrungen  $\phi$  3,5 abgedeckt mit Kleband (müssen frei bleiben von Lack).

43.01.0108 und Schild 1.820.771-04 aufgeklebt nach Fabrikationsmuster.

|           |         |      |       |      |       |       |  |  |  |
|-----------|---------|------|-------|------|-------|-------|--|--|--|
| Abmessung |         |      |       |      |       |       |  |  |  |
| Datum     | 10.3.92 | Gez. | Gepr. | Gez. | Gepr. | Index |  |  |  |

|                                |  |                                |
|--------------------------------|--|--------------------------------|
| STUDER<br>REGENSDORF<br>ZÜRICH | Bezeichnung:<br><b>MOTOR TACHO BOARD<br/>ESE</b> | Nummer:<br><b>1.820.771-84</b> |
|--------------------------------|--|--------------------------------|

| Ad       | POS. | REF.No.    | DESCRIPTION               | MANUFACTURER      |
|----------|------|------------|---------------------------|-------------------|
| C.....1  |      | 59.26.2100 | 10 uF 20%, 16V, Sal       |                   |
| C.....2  |      | 59.06.0683 | 68 nF 10%, 63V, PETP      |                   |
| C.....3  |      | 00.00.0000 | not used                  |                   |
| C.....4  |      | 00.00.0000 | not used                  |                   |
| D.....1  |      | 50.04.0512 | 1N 5818 1N 5818           | Not               |
| D.....2  |      | 50.04.0127 | BAT 42 BAT 85, BAS 40-02, | Ph,Sie,Tho        |
| D.....3  |      | 50.04.0127 | BAT 42 BAT 85, BAS 40-02, | Ph,Sie,Tho        |
| D.....4  |      | 50.04.1107 | 3,3V Z BZX 55-C3V3        | ITT,Not,Ph,Tf,Tho |
| DLQ...   |      | 50.99.0166 | OPB 826                   | Op                |
| IC.....1 |      | 50.15.0114 | uA9637ACP 9637 ATC        | Fc,TI             |
| IC.....2 |      | 50.05.0286 | LM 358 N LM 358 P         | NS,Not,SGS,Ti     |
| IC.....2 |      | 50.09.0122 | TLC 272 C TS 272 CH       | SGS,Ti            |
| P.....1  |      | 54.14.2001 | 10 cont. see note 1       |                   |
| Q.....1  |      | 50.03.0351 | BC 327-25                 | ITT,Ph,Sie        |
| Q.....2  |      | 50.03.0351 | BC 327-25                 | ITT,Ph,Sie        |
| R.....1  |      | 57.11.3181 | 180 Ohm 1%                |                   |
| R.....2  |      | 00.00.0000 | factory adjusted          |                   |
| R.....3  |      | 57.11.3181 | 180 Ohm 1%                |                   |
| R.....4  |      | 00.00.0000 | factory adjusted          |                   |
| R.....5  |      | 00.00.0000 | not used 1%               |                   |
| R.....6  |      | 57.11.3102 | 1 kOhm 1%                 |                   |
| R.....7  |      | 57.11.3224 | 220 kOhm 1%               |                   |
| R.....8  |      | 00.00.0000 | not used 1%               |                   |
| R.....9  |      | 57.11.3271 | 270 Ohm not used          |                   |
| R.....10 |      | 00.00.0000 | not used                  |                   |
| R.....11 |      | 57.11.3224 | 220 kOhm 1%               |                   |
| R.....12 |      | 57.11.3102 | 1 kOhm 1%                 |                   |
| R.....13 |      | 00.00.0000 | not used                  |                   |
| RA....1  |      | 58.05.0202 | 2 kOhm 10%, multi turn    |                   |
| RA....2  |      | 58.05.0202 | 2 kOhm 10%, multi turn    |                   |

(01) 11.01.90 Printout error

Note 1 - Connector 10 contacts:  
Yamachi nr. FAP-10-08-40SS  
Burndy nr. BPH 9 B10 800 GS  
3M nr. 7610-6002 VZ

EI=Electrolytic, Sal=Solid aluminium

MANUFACTURER: Fc=Fairchild, ITT=Intarmetal, Not=Motorola, NS=National Semiconductor, Op=Optron, Ph=Philips, SGS=SGS/Ates, Sie=Siemens, Tf=Telefunken, Tho=Thomson, TI=Texas Instrument.

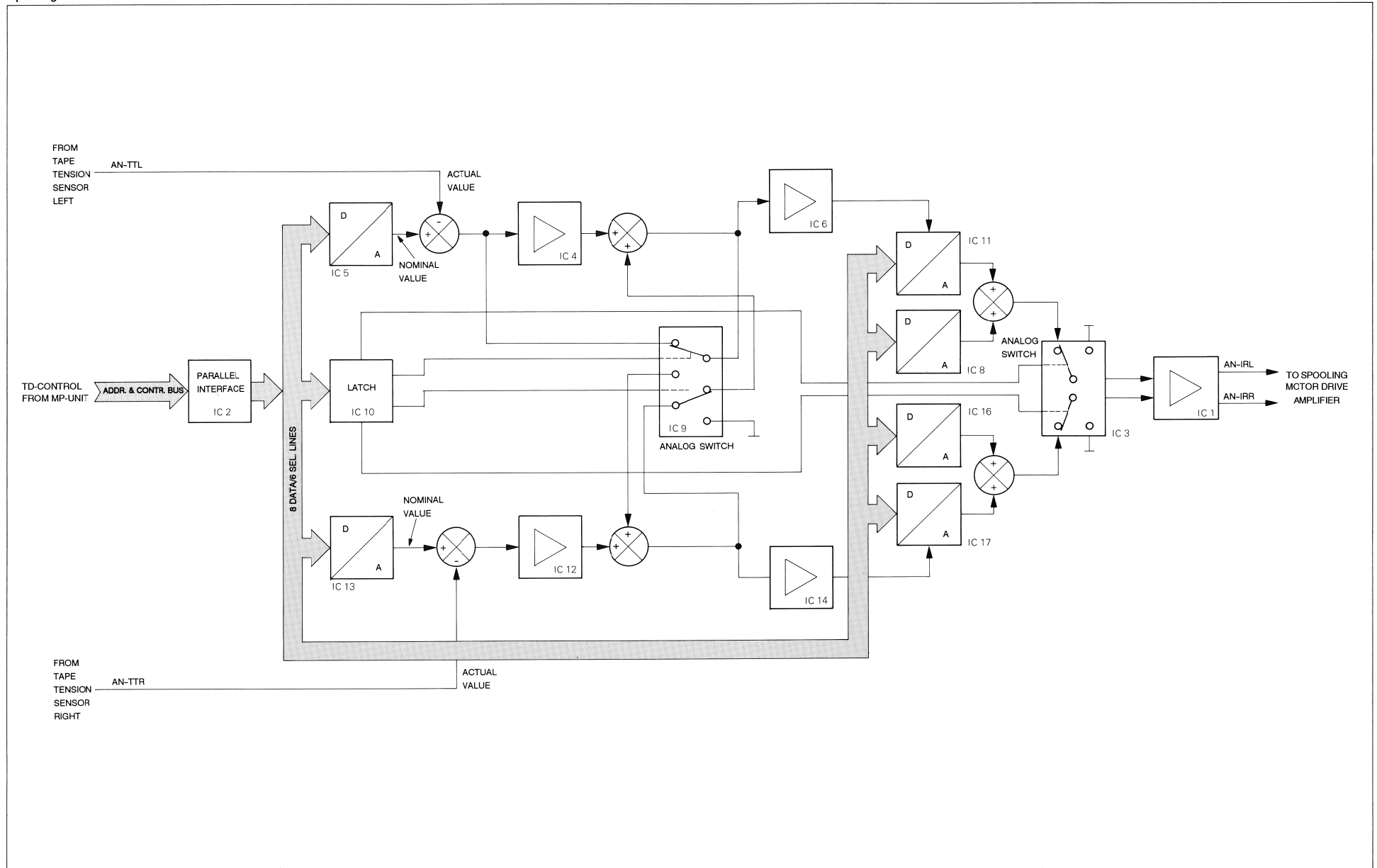
1.820.771.84 MOTOR TACHO PZ 89/11/1500

1.820.771.84 MOTOR TACHO PZ 90/01/1101



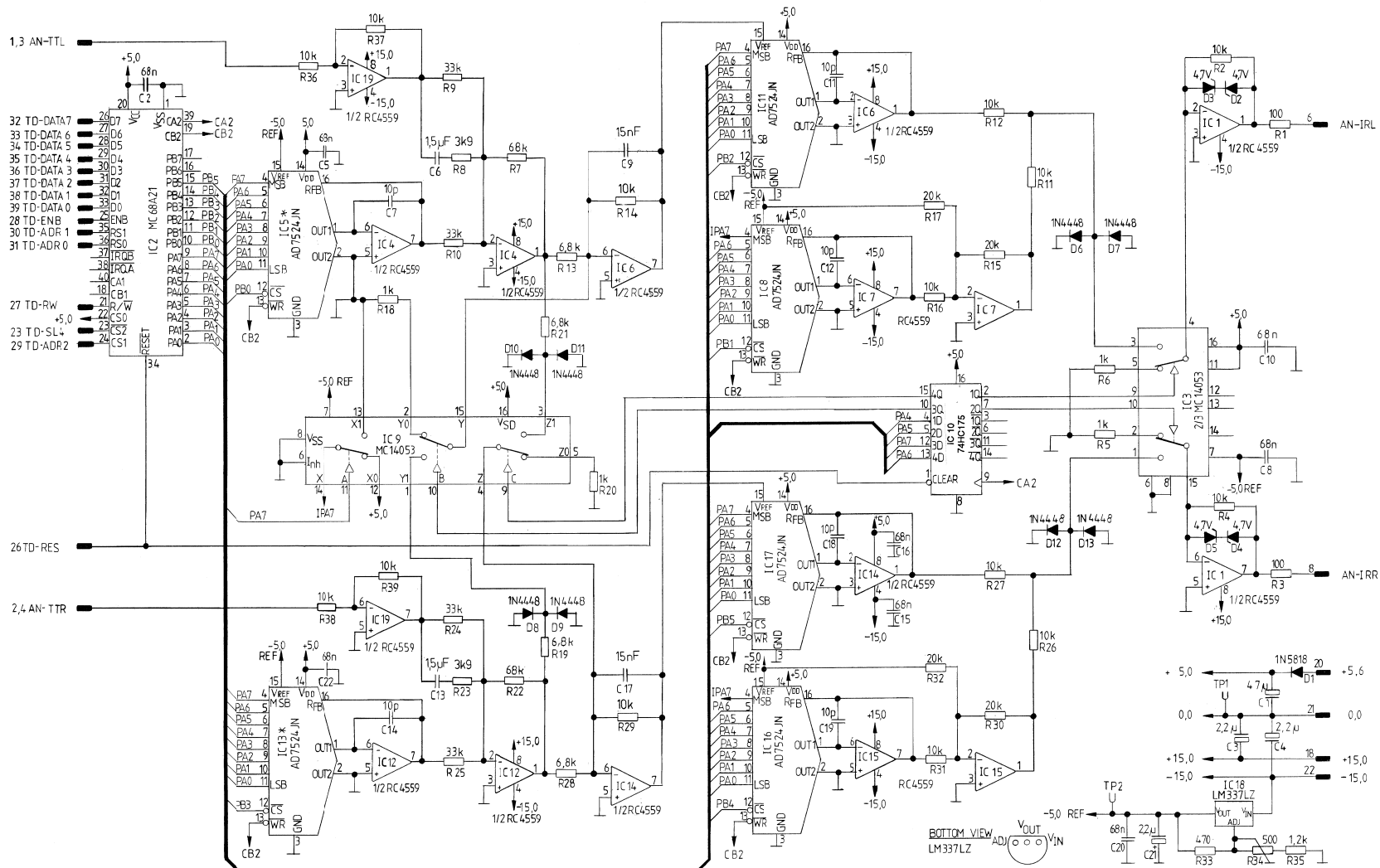
**BLOCK DIAGRAM**

Spooling Motor Control 1.862.760





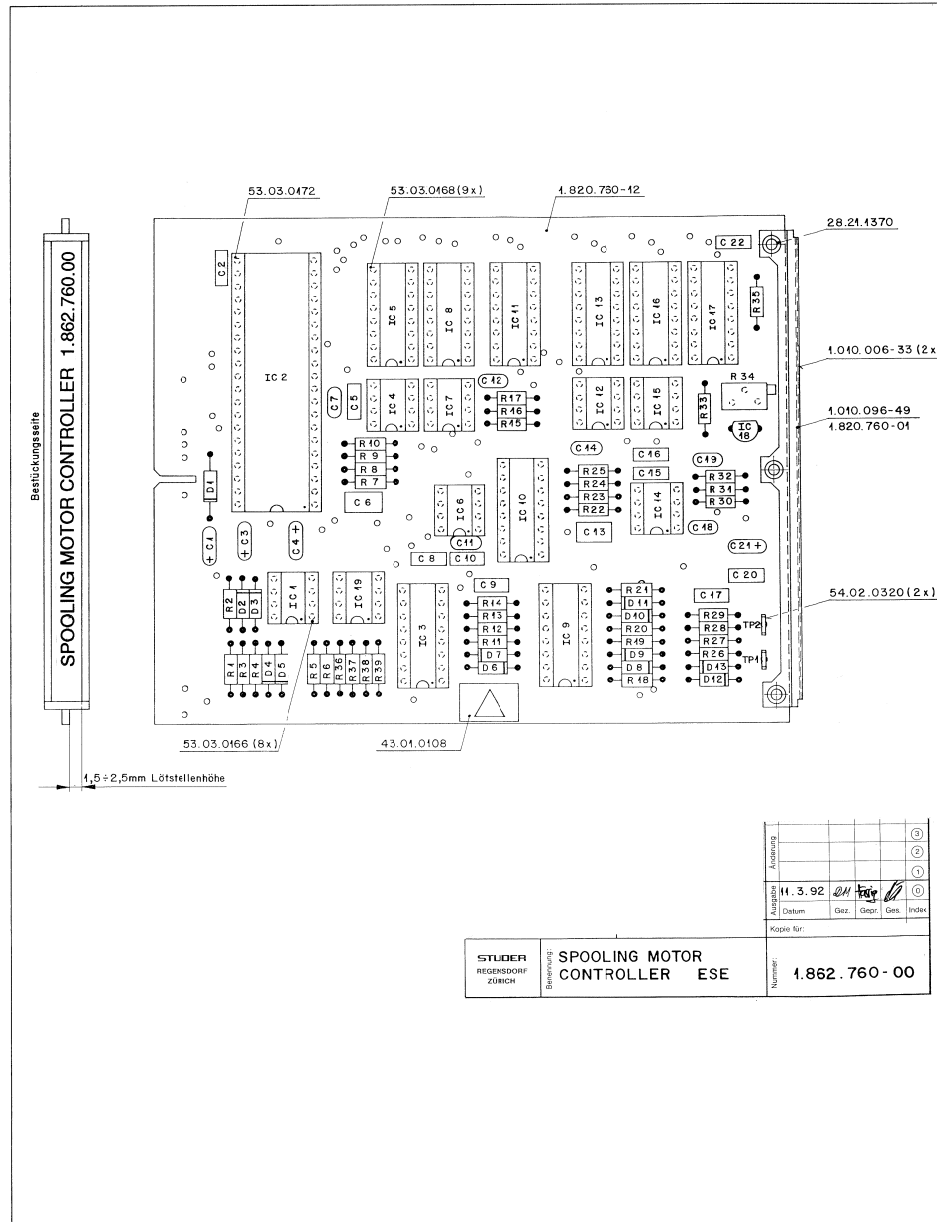
SPOOLING MOTOR CONTROL 1.862.760.00



\* HAS BEEN MODIFIED

|          |     |                        |    |                 |  |             |  |  |  |
|----------|-----|------------------------|----|-----------------|--|-------------|--|--|--|
| 11.03.92 | HRH | 120%                   | ML |                 |  |             |  |  |  |
| A 820    |     | Spooling Motor Control |    | SC 1.862.760.00 |  | PAGE 1 OF 1 |  |  |  |

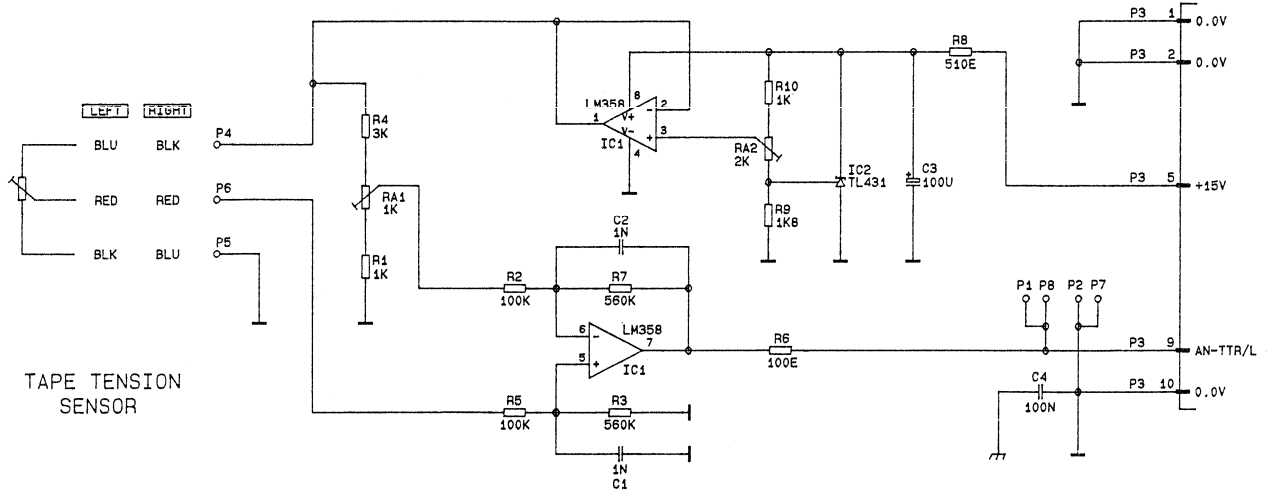
SPOOLING MOTOR CONTROL 1.862.760.00



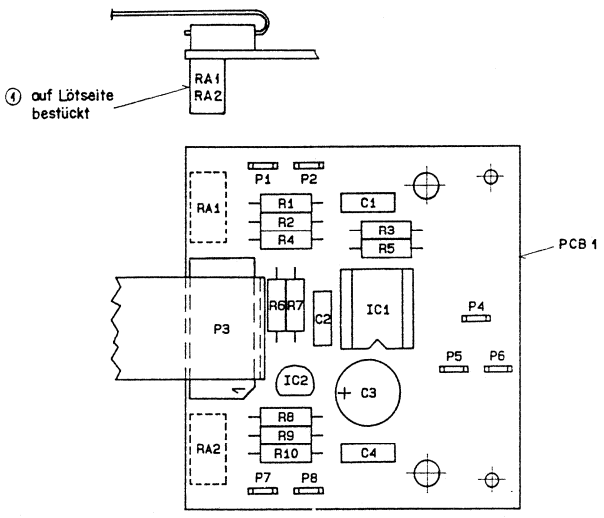
| Ad    | POS. | REF.No.    | DESCRIPTION | MANUFACTURER                      | Ad | POS. | REF.No. | DESCRIPTION | MANUFACTURER                     |
|-------|------|------------|-------------|-----------------------------------|----|------|---------|-------------|----------------------------------|
| C...  | 1    | 59.26.0470 | 47 uF       | 4.3V, Sal                         |    |      |         |             | Contelec nr. 183 XZ 501          |
| C...  | 2    | 59.06.0683 | 68 nF       |                                   |    |      |         |             | Spectrol nr. 64 Z 501 T 000      |
| C...  | 3    | 59.26.5229 | 2.2 uF      | 25V, Sal                          |    |      |         |             | Murata nr. POT 3105 Z - 1 - 501  |
| C...  | 4    | 59.26.5229 | 2.2 uF      | 25V, Sal                          |    |      |         |             |                                  |
| C...  | 5    | 59.06.0683 | 68 nF       |                                   |    |      |         |             |                                  |
| C...  | 6    | 59.06.5155 | 1.5 uF      | 5%                                |    |      |         |             | Cer=Ceramic, Sal=Solid aluminium |
| C...  | 7    | 59.34.1100 | 10 pF       |                                   |    |      |         |             |                                  |
| C...  | 8    | 59.06.0683 | 68 nF       |                                   |    |      |         |             |                                  |
| C...  | 9    | 59.06.5153 | 15 nF       | 5%                                |    |      |         |             |                                  |
| C...  | 10   | 59.06.0683 | 68 nF       |                                   |    |      |         |             |                                  |
| C...  | 11   | 59.34.1100 | 10 pF       |                                   |    |      |         |             |                                  |
| C...  | 12   | 59.34.1100 | 10 pF       |                                   |    |      |         |             |                                  |
| C...  | 13   | 59.06.5155 | 1.5 uF      | 5%                                |    |      |         |             |                                  |
| C...  | 14   | 59.34.1100 | 10 pF       |                                   |    |      |         |             |                                  |
| C...  | 15   | 59.06.0683 | 68 nF       |                                   |    |      |         |             |                                  |
| C...  | 16   | 59.06.0683 | 68 nF       |                                   |    |      |         |             |                                  |
| C...  | 17   | 59.06.5153 | 15 nF       | 5%                                |    |      |         |             |                                  |
| C...  | 18   | 59.34.1100 | 10 pF       |                                   |    |      |         |             |                                  |
| C...  | 19   | 59.34.1100 | 10 pF       |                                   |    |      |         |             |                                  |
| C...  | 20   | 59.06.0683 | 68 nF       |                                   |    |      |         |             |                                  |
| C...  | 21   | 59.26.5229 | 2.2 uF      | 25V, Sal                          |    |      |         |             |                                  |
| C...  | 22   | 59.06.0683 | 68 nF       |                                   |    |      |         |             |                                  |
| I...  | 1    | 50.04.0512 | 1N 5818     | 1N 5818                           |    |      |         |             | Mot                              |
| I...  | 2    | 50.04.1123 | 4.7 V, Z    | BZX83C 4V7, BZX55C 4V7, ZPD 4.7   |    |      |         |             | ITT, Ses                         |
| I...  | 3    | 50.04.1123 | 4.7 V, Z    | BZX83C 4V7, BZX55C 4V7, ZPD 4.7   |    |      |         |             | ITT, Ses                         |
| I...  | 4    | 50.04.1123 | 4.7 V, Z    | BZX83C 4V7, BZX55C 4V7, ZPD 4.7   |    |      |         |             | ITT, Ses                         |
| I...  | 5    | 50.04.1123 | 4.7 V, Z    | BZX83C 4V7, BZX55C 4V7, ZPD 4.7   |    |      |         |             | ITT, Ses                         |
| I...  | 6    | 50.04.0125 | 1N 4448     |                                   |    |      |         |             |                                  |
| I...  | 7    | 50.04.0125 | 1N 4448     |                                   |    |      |         |             |                                  |
| I...  | 8    | 50.04.0125 | 1N 4448     |                                   |    |      |         |             |                                  |
| I...  | 9    | 50.04.0125 | 1N 4448     |                                   |    |      |         |             |                                  |
| I...  | 10   | 50.04.0125 | 1N 4448     |                                   |    |      |         |             |                                  |
| I...  | 11   | 50.04.0125 | 1N 4448     |                                   |    |      |         |             |                                  |
| I...  | 12   | 50.04.0125 | 1N 4448     |                                   |    |      |         |             |                                  |
| I...  | 13   | 50.04.0125 | 1N 4448     |                                   |    |      |         |             |                                  |
| I...  | 14   | 50.09.0107 | RC 4559 NB  | uPC 4559, slew rate min. 1.5 V/us |    |      |         |             | NEC, Ra                          |
| I...  | 15   | 50.16.0106 | MC68 A 21P  | S68 A 21P, F88 A 21P              |    |      |         |             | AMI, Fc, Mot                     |
| I...  | 16   | 50.07.0015 | MC140538CP  | ... 4053 ...                      |    |      |         |             | Mot, NS, Ph, RCA, To             |
| I...  | 17   | 50.09.0107 | RC 4559 NB  | uPC 4559, slew rate min. 1.5 V/us |    |      |         |             | NEC, Ra                          |
| I...  | 18   | 50.07.0002 | AD 7524 JN  | MP 7524 JN                        |    |      |         |             | ADI, MPS                         |
| I...  | 19   | 50.09.0107 | RC 4559 NB  | uPC 4559, slew rate min. 1.5 V/us |    |      |         |             | NEC, Ra                          |
| I...  | 20   | 50.07.0002 | AD 7524 JN  | MP 7524 JN                        |    |      |         |             | ADI, MPS                         |
| I...  | 21   | 50.09.0107 | RC 4559 NB  | uPC 4559, slew rate min. 1.5 V/us |    |      |         |             | NEC, Ra                          |
| I...  | 22   | 50.07.0002 | AD 7524 JN  | MP 7524 JN                        |    |      |         |             | ADI, MPS                         |
| I...  | 23   | 50.09.0107 | RC 4559 NB  | uPC 4559, slew rate min. 1.5 V/us |    |      |         |             | NEC, Ra                          |
| I...  | 24   | 50.07.0002 | AD 7524 JN  | MP 7524 JN                        |    |      |         |             | ADI, MPS                         |
| I...  | 25   | 50.09.0107 | RC 4559 NB  | uPC 4559, slew rate min. 1.5 V/us |    |      |         |             | NEC, Ra                          |
| I...  | 26   | 50.07.0002 | AD 7524 JN  | MP 7524 JN                        |    |      |         |             | ADI, MPS                         |
| I...  | 27   | 50.09.0107 | RC 4559 NB  | uPC 4559, slew rate min. 1.5 V/us |    |      |         |             | NEC, Ra                          |
| I...  | 28   | 50.07.0002 | AD 7524 JN  | MP 7524 JN                        |    |      |         |             | ADI, MPS                         |
| I...  | 29   | 50.10.0109 | LM 337 LZ   |                                   |    |      |         |             | NS                               |
| I...  | 30   | 50.09.0107 | RC 4559 NB  | uPC 4559, slew rate min. 1.5 V/us |    |      |         |             | NEC, Ra                          |
| R...  | 1    | 57.11.3101 | 100 Ohm     | 5%                                |    |      |         |             |                                  |
| R...  | 2    | 57.11.3103 | 10 kOhm     | 5%                                |    |      |         |             |                                  |
| R...  | 3    | 57.11.3101 | 100 Ohm     | 5%                                |    |      |         |             |                                  |
| R...  | 4    | 57.11.3103 | 10 kOhm     | 5%                                |    |      |         |             |                                  |
| R...  | 5    | 57.11.3102 | 1 kOhm      | 5%                                |    |      |         |             |                                  |
| R...  | 6    | 57.11.3102 | 1 kOhm      | 5%                                |    |      |         |             |                                  |
| R...  | 7    | 57.11.3683 | 68 kOhm     | 5%                                |    |      |         |             |                                  |
| R...  | 8    | 57.11.3392 | 3.9 kOhm    | 5%                                |    |      |         |             |                                  |
| R...  | 9    | 57.11.3333 | 33 kOhm     | 5%                                |    |      |         |             |                                  |
| R...  | 10   | 57.11.3333 | 33 kOhm     | 5%                                |    |      |         |             |                                  |
| R...  | 11   | 57.11.3103 | 10 kOhm     | 5%                                |    |      |         |             |                                  |
| R...  | 12   | 57.11.3103 | 10 kOhm     | 5%                                |    |      |         |             |                                  |
| R...  | 13   | 57.11.3682 | 6.8 kOhm    | 5%                                |    |      |         |             |                                  |
| R...  | 14   | 57.11.3103 | 10 kOhm     | 5%                                |    |      |         |             |                                  |
| R...  | 15   | 57.11.3203 | 20 kOhm     | 5%                                |    |      |         |             |                                  |
| R...  | 16   | 57.11.3103 | 10 kOhm     | 5%                                |    |      |         |             |                                  |
| R...  | 17   | 57.11.3203 | 20 kOhm     | 5%                                |    |      |         |             |                                  |
| R...  | 18   | 57.11.3102 | 1 kOhm      | 5%                                |    |      |         |             |                                  |
| R...  | 19   | 57.11.3682 | 6.8 kOhm    | 5%                                |    |      |         |             |                                  |
| R...  | 20   | 57.11.3102 | 1 kOhm      | 5%                                |    |      |         |             |                                  |
| R...  | 21   | 57.11.3682 | 6.8 kOhm    | 5%                                |    |      |         |             |                                  |
| R...  | 22   | 57.11.3683 | 68 kOhm     | 5%                                |    |      |         |             |                                  |
| R...  | 23   | 57.11.3392 | 3.9 kOhm    | 5%                                |    |      |         |             |                                  |
| R...  | 24   | 57.11.3333 | 33 kOhm     | 5%                                |    |      |         |             |                                  |
| R...  | 25   | 57.11.3333 | 33 kOhm     | 5%                                |    |      |         |             |                                  |
| R...  | 26   | 57.11.3103 | 10 kOhm     | 5%                                |    |      |         |             |                                  |
| R...  | 27   | 57.11.3103 | 10 kOhm     | 5%                                |    |      |         |             |                                  |
| R...  | 28   | 57.11.3682 | 6.8 kOhm    | 5%                                |    |      |         |             |                                  |
| R...  | 29   | 57.11.3103 | 10 kOhm     | 5%                                |    |      |         |             |                                  |
| R...  | 30   | 57.11.3203 | 20 kOhm     | 5%                                |    |      |         |             |                                  |
| R...  | 31   | 57.11.3103 | 10 kOhm     | 5%                                |    |      |         |             |                                  |
| R...  | 32   | 57.11.3203 | 20 kOhm     | 5%                                |    |      |         |             |                                  |
| R...  | 33   | 57.11.3471 | 470 Ohm     | 5%                                |    |      |         |             |                                  |
| R...  | 34   | 56.05.0501 | 500 Ohm     | see note 1                        |    |      |         |             |                                  |
| R...  | 35   | 57.11.3122 | 1.2 kOhm    | 5%                                |    |      |         |             |                                  |
| R...  | 36   | 57.11.3103 | 10 kOhm     | 5%                                |    |      |         |             |                                  |
| R...  | 37   | 57.11.3103 | 10 kOhm     | 5%                                |    |      |         |             |                                  |
| R...  | 38   | 57.11.3103 | 10 kOhm     | 5%                                |    |      |         |             |                                  |
| R...  | 39   | 57.11.3103 | 10 kOhm     | 5%                                |    |      |         |             |                                  |
| TP... | 1    | 54.02.0320 |             | Test point                        |    |      |         |             |                                  |
| TP... | 2    | 54.02.0320 |             | Test point                        |    |      |         |             |                                  |

Note 1 - Potentiometer 500 Ohm  
Bourns nr. 3296 Z - 1 - 501

TAPE TENSION SENSOR LEFT 1.863.155.00  
 TAPE TENSION SENSOR RIGHT 1.863.156.00  
 - Tape Tension Sensor Board (Left or Right) 1.863.772.00



|                |                                |                 |
|----------------|--------------------------------|-----------------|
| 30.07.93 ZW/PZ | D 827                          | PAGE 1 OF 1     |
| <b>STUDER</b>  | TAPE DECK TENSION SENSOR BOARD | SC 1.863.772.00 |



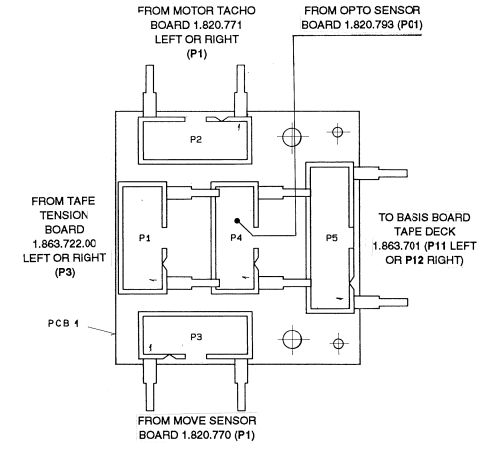
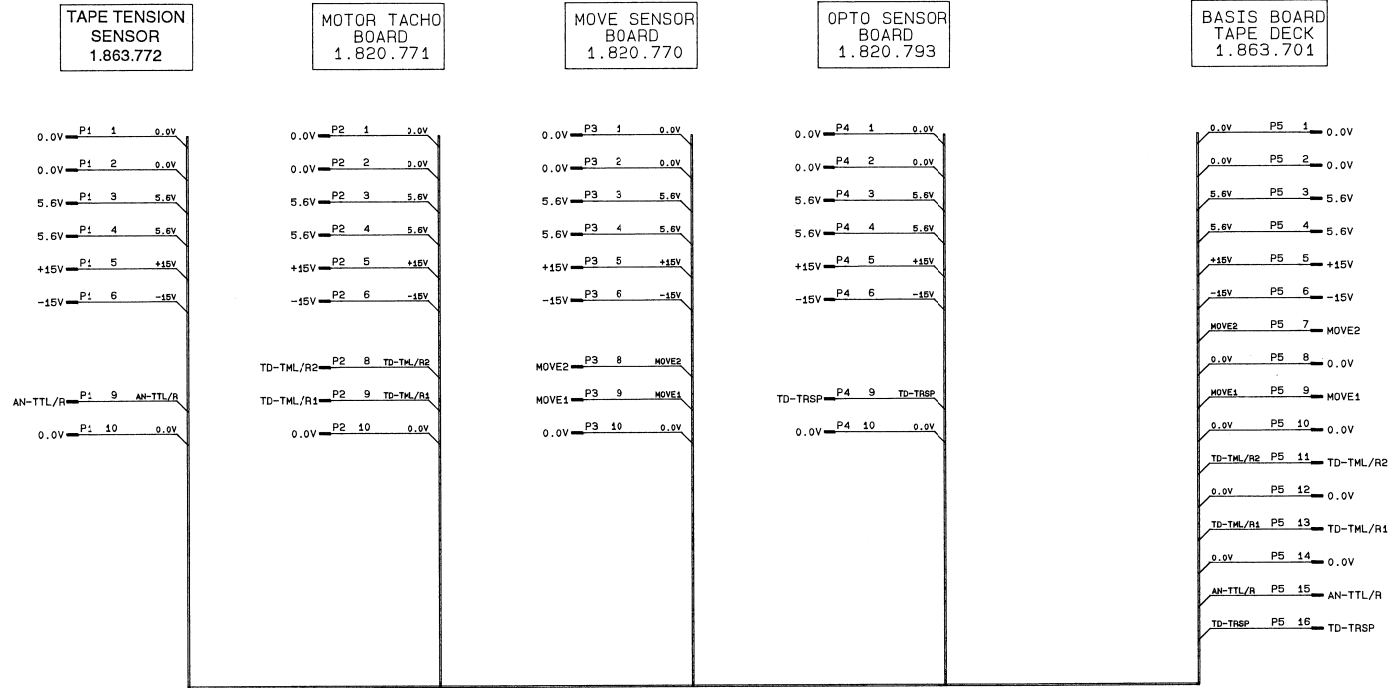
| Ad    | POS | REF.No       | DESCRIPTION                     | MANUFACTURER |
|-------|-----|--------------|---------------------------------|--------------|
| C     | 1   | 59.06.0102   | 1n 10%, 63V                     |              |
| C     | 2   | 59.06.0102   | 1n 10%, 63V                     |              |
| C     | 3   | 59.22.5101   | 100u -20/+50%, 25V              |              |
| C     | 4   | 59.06.0104   | 100n 10%, 63V                   |              |
| IC    | 1   | 50.05.0286   | LM358 DIP08, LINEAR DUAL OPAMP  |              |
| IC    | 2   | 50.10.0106   | TL431 T092, VOLTAGE REGULATOR   |              |
| P     | 1   | 54.02.0320   | 1-P STR., MALE, FLATPIN 2.8*0.8 |              |
| P     | 2   | 54.02.0320   | 1-P STR., MALE, FLATPIN 2.8*0.8 |              |
| P     | 3   | 1.023.110.01 | 10-P FLAT-CABLE 0.1mm           |              |
| P     | 4   | 54.02.0320   | 1-P STR., MALE, FLATPIN 2.8*0.8 |              |
| P     | 5   | 54.02.0320   | 1-P STR., MALE, FLATPIN 2.8*0.8 |              |
| P     | 6   | 54.02.0320   | 1-P STR., MALE, FLATPIN 2.8*0.8 |              |
| P     | 7   | 54.02.0320   | 1-P STR., MALE, FLATPIN 2.8*0.8 |              |
| P     | 8   | 54.02.0320   | 1-P STR., MALE, FLATPIN 2.8*0.8 |              |
| PCB   | 1   | 1.863.772.11 | PCB TAPE DECK SENSOR            |              |
| R     | 1   | 57.11.3102   | 1k 1%, 0.6W, MF                 |              |
| R     | 2   | 57.11.3104   | 100k 1%, 0.6W, MF               |              |
| R     | 3   | 57.11.3564   | 560k 1%, 0.6W, MF               |              |
| R     | 4   | 57.11.3302   | 3k 1%, 0.6W, MF                 |              |
| R     | 5   | 57.11.3104   | 100k 1%, 0.6W, MF               |              |
| R     | 6   | 57.11.3101   | 100E 1%, 0.6W, MF               |              |
| R     | 7   | 57.11.3564   | 560k 1%, 0.6W, MF               |              |
| R     | 8   | 57.11.3511   | 510E 1%, 0.6W, MF               |              |
| R     | 9   | 57.11.3182   | 1k8 1%, 0.6W, MF                |              |
| R     | 10  | 57.11.3102   | 1k 1%, 0.6W, MF                 |              |
| RA    | 1   | 58.01.9102   | 1k 10%, 0.5W, VERT.             |              |
| 01 RA | 1   | 58.05.1102   | 1k 10%, 0.5W, MULTI TURN        |              |
| RA    | 2   | 58.01.9202   | 2k 10%, 0.5W, VERT. PGM         |              |
| 01 RA | 2   | 58.05.1202   | 2k 10%, 0.5W, MULTI TURN        |              |
| XIC   | 1   | 53.03.0166   | XIC DIL 8-POL                   |              |

|               |       |      |       |      |
|---------------|-------|------|-------|------|
| IND.          | DATUM | GEZ. | SEPR. | GES. |
|               |       |      |       |      |
| BLATT 1 VON 1 |       |      |       |      |

|               |                               |    |              |
|---------------|-------------------------------|----|--------------|
| <b>STUDER</b> | TAPE TENSION SENSOR BOARD ESE | BP | 1.863.772-00 |
|---------------|-------------------------------|----|--------------|

# STUDER D827 MCH

TAPE TENSION SENSOR LEFT 1.863.155.00  
 TAPE TENSION SENSOR RIGHT 1.863.156.00  
 -Tape Deck Distribution 1.863.773.00



|  |  |  |  |  |  |
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|               |                              |    |              |
|---------------|------------------------------|----|--------------|
| <b>STUDER</b> | TAPE DECK DISTRIBUTION BOARD | BP | 1.863.773-00 |
|---------------|------------------------------|----|--------------|

| Ad      | POS. | REF.No.      | DESCRIPTION                | MANUFACTURER |
|---------|------|--------------|----------------------------|--------------|
| P.....1 |      | 54.14.2301   | 30-P STR., MALE, P-RC-PLUG |              |
| P.....2 |      | 54.14.2301   | 10-P STR., MALE, P-RC-PLUG |              |
| P.....3 |      | 54.14.2301   | 10-P STR., MALE, P-RC-PLUG |              |
| P.....4 |      | 54.14.2301   | 10-P STR., MALE, P-RC-PLUG |              |
| P.....5 |      | 54.14.2302   | 16-P STR., MALE, P-RC-PLUG |              |
| PCB...1 |      | 1.863.773.11 | PCB TAPE DECK DISTRIBUTION |              |

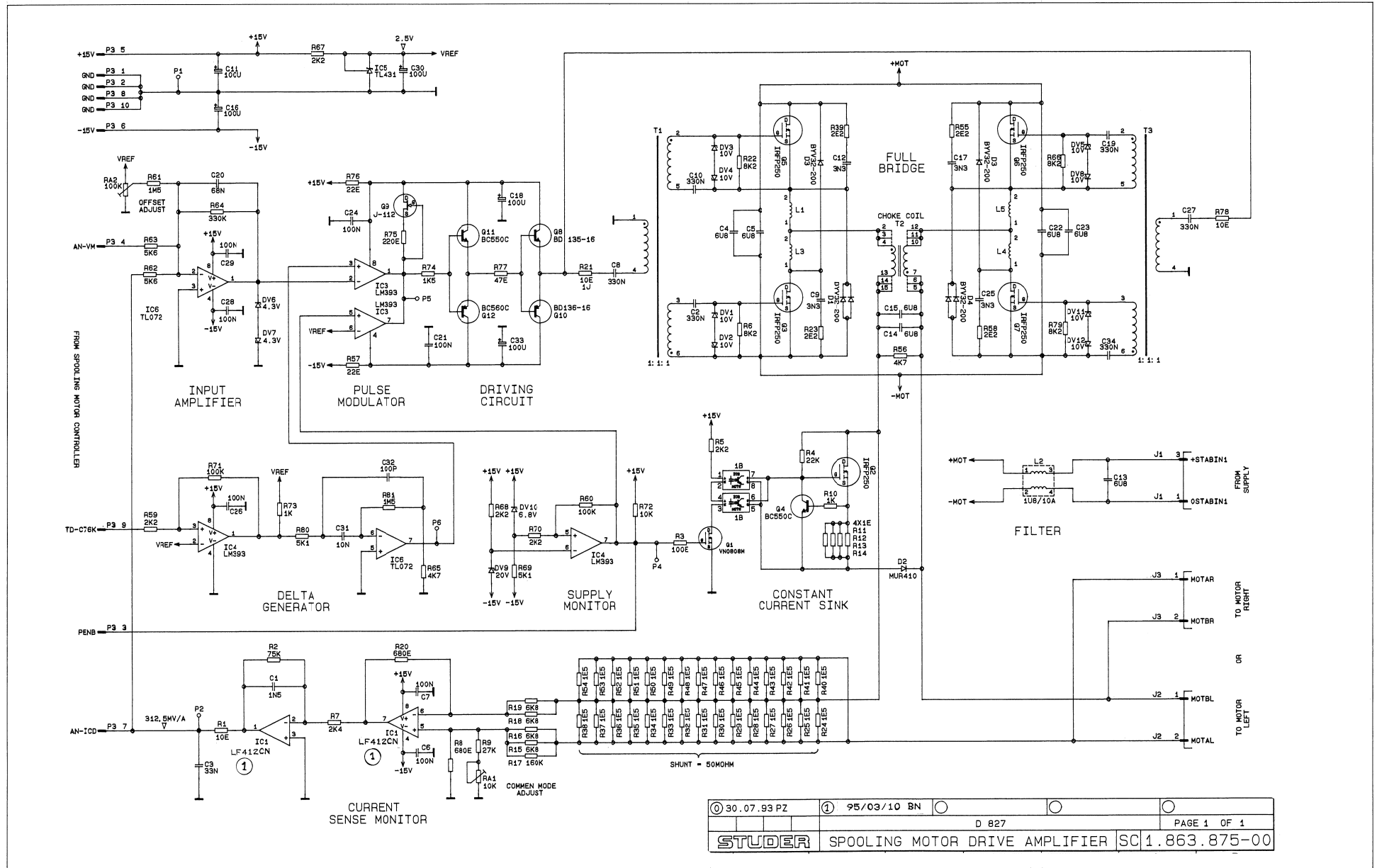
MANUFACTURER: IIT-ITT/Intermetall, NEC-Nippon Electric Corporation, Pa-Philips, Ra-Raytheon, Ses-Sescomem.

1.863.773.00 TAPE DECK DISTRIBUTION PZ 93/07/3000

|                   |                        |             |              |  |
|-------------------|------------------------|-------------|--------------|--|
| ① 30.07.93 HRH/PZ |                        |             |              |  |
| D 827             |                        | PAGE 1 OF 1 |              |  |
| <b>STUDER</b>     | TAPE DECK DISTRIBUTION | SC          | 1.863.773-00 |  |

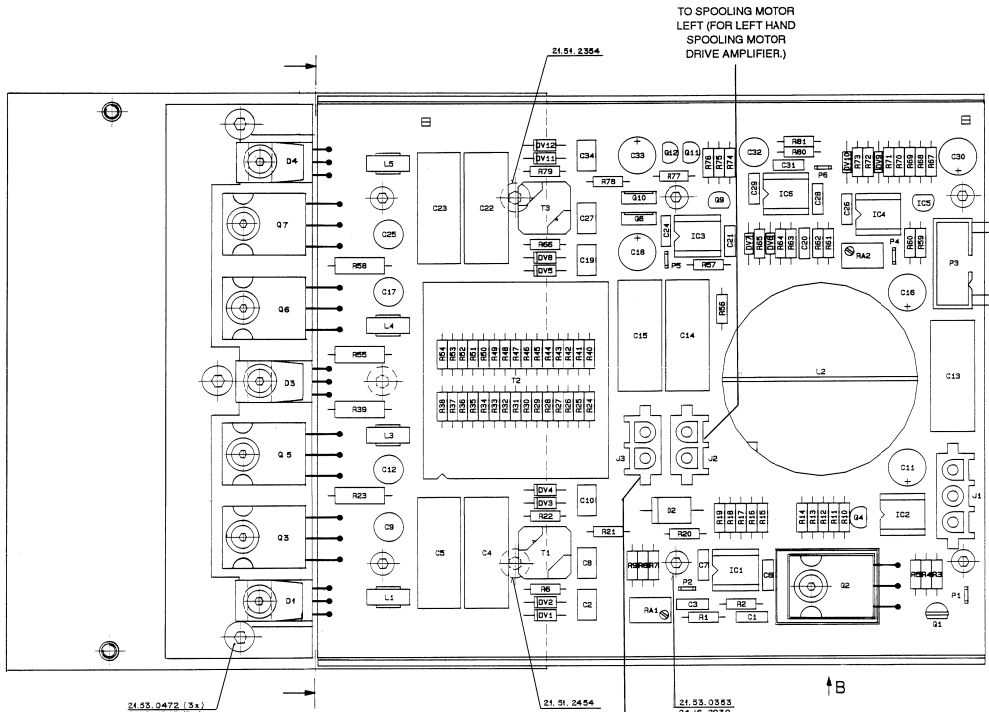


SPOOLING MOTOR DRIVE AMPLIFIER 1.863.875.00



|               |               |  |             |   |
|---------------|---------------|--|-------------|---|
| ① 30.07.93 PZ | ① 95/03/10 BN | ○  | ○           | ○ |
| D 827         |               |  | PAGE 1 OF 1 |   |
| <b>STUDER</b> |               | SPOOLING MOTOR DRIVE AMPLIFIER SC 1.863.875-00 |             |   |

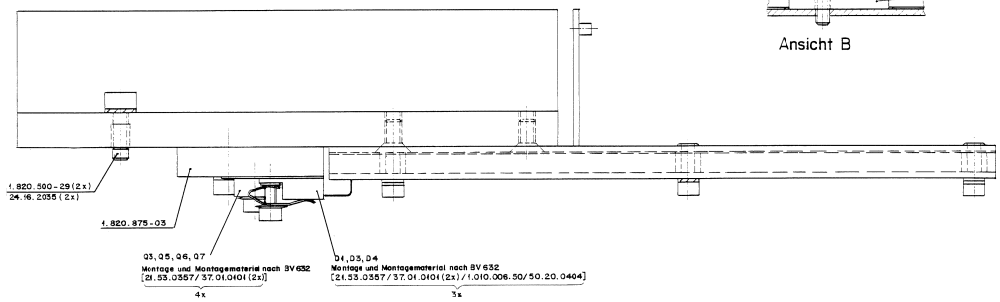
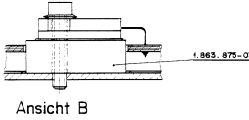
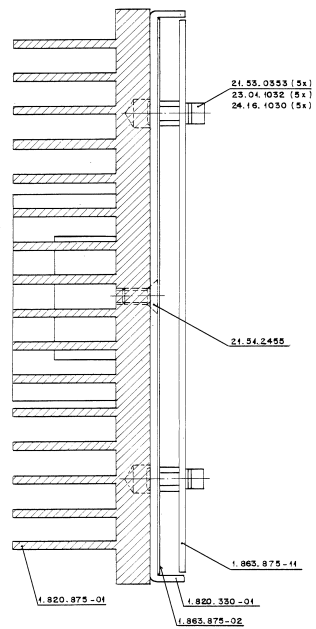
SPOOLING MOTOR DRIVE AMPLIFIER 1.863.875.00



TO SPOOLING MOTOR LEFT (FOR LEFT HAND SPOOLING MOTOR DRIVE AMPLIFIER.)

FROM BASIS BOARD TAPE DECK 1.863.701 (P13 FOR RIGHT P14 FOR LEFT DRIVE AMP.)

FROM POWER CONNECTION BOARD 1.863.705 (J1 FOR LEFT OR J2 FOR RIGHT DRIVE AMP.)



STUDER REGENSDORF ZÜRICH

Spooling Motor Drive Ampl. ESE 1.863.875-00

| Ad      | POS.         | REF. No.      | DESCRIPTION                          | MANUFACTURER |
|---------|--------------|---------------|--------------------------------------|--------------|
| C....1  | 59.06.0152   | 1n5           | 10 %                                 | 63V          |
| C....2  | 59.06.0334   | 330n          | 10 %                                 | 63V          |
| C....3  | 59.06.0333   | 33n           | 10 %                                 | 63V          |
| C....4  | 59.02.0685   | 6u8           | 5 %                                  | 63V          |
| C....5  | 59.02.0685   | 6u8           | 5 %                                  | 63V          |
| C....6  | 59.06.0104   | 100n          | 10 %                                 | 63V          |
| C....7  | 59.06.0104   | 100n          | 10 %                                 | 63V          |
| C....8  | 59.06.0334   | 330n          | 10 %                                 | 63V          |
| C....9  | 59.05.2332   | 3n3           | 2.5 %                                | 160V         |
| C....10 | 59.06.0334   | 330n          | 10 %                                 | 63V          |
| C....11 | 59.22.5101   | 100u-20/+50   | 5 %                                  | 25V          |
| C....12 | 59.05.2332   | 3n3           | 2.5 %                                | 160V         |
| C....13 | 59.02.0685   | 6u8           | 5 %                                  | 63V          |
| C....14 | 59.02.0685   | 6u8           | 5 %                                  | 63V          |
| C....15 | 59.02.0685   | 6u8           | 5 %                                  | 63V          |
| C....16 | 59.22.5101   | 100u-20/+50   | 5 %                                  | 25V          |
| C....17 | 59.05.2332   | 3n3           | 2.5 %                                | 160V         |
| C....18 | 59.22.5101   | 100u-20/+50   | 5 %                                  | 25V          |
| C....19 | 59.06.0334   | 330n          | 10 %                                 | 63V          |
| C....20 | 59.06.5683   | 68n           | 5 %                                  | 63V          |
| C....21 | 59.06.0104   | 100n          | 10 %                                 | 63V          |
| C....22 | 59.02.0685   | 6u8           | 5 %                                  | 63V          |
| C....23 | 59.02.0685   | 6u8           | 5 %                                  | 63V          |
| C....24 | 59.06.0104   | 100n          | 10 %                                 | 63V          |
| C....25 | 59.05.2332   | 3n3           | 2.5 %                                | 160V         |
| C....26 | 59.06.0104   | 100n          | 10 %                                 | 63V          |
| C....27 | 59.06.0334   | 330n          | 10 %                                 | 63V          |
| C....28 | 59.06.0104   | 100n          | 10 %                                 | 63V          |
| C....29 | 59.06.0104   | 100n          | 10 %                                 | 63V          |
| C....30 | 59.22.5101   | 100u-20/+50   | 5 %                                  | 25V          |
| C....31 | 59.06.0103   | 10n           | 10 %                                 | 63V          |
| C....32 | 59.05.1101   | 100p          | 1 %                                  | 650V         |
| C....33 | 59.22.5101   | 100u-20/+50   | 5 %                                  | 25V          |
| C....34 | 59.06.0334   | 330n          | 10 %                                 | 63V          |
| D....1  | 50.04.0517   | BYV32-200     | TO220, DOUBLE DIODE                  |              |
| D....2  | 50.04.0521   | MUR410        | DO201, RECTIFIER                     |              |
| D....3  | 50.04.0517   | BYV32-200     | TO220, DOUBLE DIODE                  |              |
| D....4  | 50.04.0517   | BYV32-200     | TO220, DOUBLE DIODE                  |              |
| DV...1  | 50.04.1216   | 10V           | 5 %, 1.3V                            | 0041, ZENER  |
| DV...2  | 50.04.1216   | 10V           | 5 %, 1.3V                            | 0041, ZENER  |
| DV...3  | 50.04.1216   | 10V           | 5 %, 1.3V                            | 0041, ZENER  |
| DV...4  | 50.04.1216   | 10V           | 5 %, 1.3V                            | 0041, ZENER  |
| DV...5  | 50.04.1216   | 10V           | 5 %, 1.3V                            | 0041, ZENER  |
| DV...6  | 50.04.1120   | 4.3V          | 5 %, 0.5M                            | 0035, ZENER  |
| DV...7  | 50.04.1120   | 4.3V          | 5 %, 0.5M                            | 0035, ZENER  |
| DV...8  | 50.04.1216   | 10V           | 5 %, 1.3V                            | 0041, ZENER  |
| DV...9  | 50.04.1109   | 20V           | 5 %, 0.5M                            | 0035, ZENER  |
| DV...10 | 50.04.1102   | 6.8V          | 5 %, 0.5M                            | 0035, ZENER  |
| DV...11 | 50.04.1216   | 10V           | 5 %, 1.3V                            | 0041, ZENER  |
| DV...12 | 50.04.1216   | 10V           | 5 %, 1.3V                            | 0041, ZENER  |
| IC...1  | 50.09.0106   | 5532AN DIP08  | LINEAR OPAMP DUAL                    |              |
| IC...2  | 1.010.051.50 | 5532AN DIP08  | LINEAR OPAMP DUAL, OFFSET = MAX. 1mV |              |
| IC...3  | 50.09.0120   | LF412CN DIP08 | LINEAR OPAMP DUAL, VERY LOW OFFSET   |              |
| IC...4  | 50.99.0111   | MCT6          | DIP08, OPTOCOUPLER                   |              |
| IC...5  | 50.05.0283   | LM393         | DIP08, DUAL VOLTAGE COMPARATOR       |              |
| IC...6  | 50.05.0283   | LM393         | DIP08, DUAL VOLTAGE COMPARATOR       |              |
| IC...7  | 50.10.0106   | TL431         | TO92, VOLTAGE REGULATOR              |              |
| IC...8  | 50.09.0101   | TL072         | DIP08, DUAL BIFET                    |              |
| J....1  | 54.25.0003   | 3-P           | 12A, FEM., J-AMP, VERTICAL           |              |
| J....2  | 54.25.0002   | 2-P           | 16A, FEM., J-AMP, VERTICAL           |              |
| J....3  | 54.25.0002   | 2-P           | 16A, FEM., J-AMP, VERTICAL           |              |
| L....1  | 1.022.650.00 | 37uH          | COIL                                 |              |
| L....2  | 62.03.0104   | 272mH         | 4A, COMMON MODE                      |              |
| L....3  | 1.022.650.00 | 37uH          | COIL                                 |              |
| L....4  | 1.022.650.00 | 37uH          | COIL                                 |              |
| L....5  | 1.022.650.00 | 37uH          | COIL                                 |              |
| P....1  | 54.02.0320   | 1-P           | STR., MALE, FLATPIN 2.8*0.8          |              |
| P....2  | 54.02.0320   | 1-P           | STR., MALE, FLATPIN 2.8*0.8          |              |
| P....3  | 54.14.2101   | 10-P          | STR., MALE, P-RC-PLUG LOCK           |              |
| P....4  | 54.02.0320   | 1-P           | STR., MALE, FLATPIN 2.8*0.8          |              |
| P....5  | 54.02.0320   | 1-P           | STR., MALE, FLATPIN 2.8*0.8          |              |
| P....6  | 54.02.0320   | 1-P           | STR., MALE, FLATPIN 2.8*0.8          |              |
| PCB...1 | 1.863.875.11 |               | Empty PCB                            |              |
| Q....1  | 50.03.1505   | VN0808M       | NFET, TO237, MOS 80V                 |              |
| Q....2  | 50.03.1612   | IRFP250       | NFET, TO247-1, MOS                   |              |
| Q....3  | 50.03.1612   | IRFP250       | NFET, TO247-1, MOS                   |              |
| Q....4  | 50.03.0407   | BC550C        | NPN, TO92-1, MOS                     |              |
| Q....5  | 50.03.1612   | IRFP250       | NFET, TO247-1, MOS                   |              |
| Q....6  | 50.03.1612   | IRFP250       | NFET, TO247-1, MOS                   |              |
| Q....7  | 50.03.1612   | IRFP250       | NFET, TO247-1, MOS                   |              |
| Q....8  | 50.03.0495   | BD135-16      | NPN, TO126-1, MOS                    |              |
| Q....9  | 50.03.0350   | J-112         | NFET, TO92-5, MOS                    |              |
| Q....10 | 50.03.0510   | BD136-16      | PNP, TO126-1, MOS                    |              |
| Q....11 | 50.03.0407   | BC550C        | NPN, TO92-1, MOS                     |              |
| Q....12 | 50.03.0601   | BC560C        | PNP, TO92-1, MOS                     |              |
| R....1  | 57.11.3100   | 10E           | 1 %, 0.6W, MF                        |              |
| R....2  | 57.11.3753   | 75k           | 1 %, 0.6W, MF                        |              |
| R....3  | 57.11.3101   | 100E          | 1 %, 0.6W, MF                        |              |
| R....4  | 57.11.3223   | 22k           | 1 %, 0.6W, MF                        |              |
| R....5  | 57.11.3222   | 22k           | 1 %, 0.6W, MF                        |              |
| R....6  | 57.11.3822   | 8k2           | 1 %, 0.6W, MF                        |              |
| R....7  | 57.11.3242   | 24k           | 1 %, 0.6W, MF                        |              |



**SPOOLING MOTOR DRIVE AMPLIFIER 1.863.875.00**

| Ad      | ..POS..      | ..REF.No... | DESCRIPTION..... | MANUFACTURER             | Ad | ..POS.. | ..REF.No... | DESCRIPTION..... | MANUFACTURER |
|---------|--------------|-------------|------------------|--------------------------|----|---------|-------------|------------------|--------------|
| R....8  | 57.11.3681   | 680E        | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....9  | 57.11.3273   | 27k         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....10 | 57.11.3102   | 1k          | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....11 | 57.11.3109   | 1E          | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....12 | 57.11.3109   | 1E          | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....13 | 57.11.3109   | 1E          | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....14 | 57.11.3109   | 1E          | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....15 | 57.99.0250   | 6k8         | 0.1 %            |                          | MF |         |             |                  |              |
| R....16 | 57.99.0250   | 6k8         | 0.1 %            |                          | MF |         |             |                  |              |
| R....17 | 57.11.3164   | 160k        | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....18 | 57.99.0250   | 6k8         | 0.1 %            |                          | MF |         |             |                  |              |
| R....19 | 57.99.0250   | 6k8         | 0.1 %            |                          | MF |         |             |                  |              |
| R....20 | 57.11.3681   | 680E        | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....21 | 57.11.3100   | 10E         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....22 | 57.11.3822   | 8k2         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....23 | 57.13.4229   | 2E2         | 2 %              | 1W,                      | MF |         |             |                  |              |
| R....24 | 57.11.3159   | 1E5         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....25 | 57.11.3159   | 1E5         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....26 | 57.11.3159   | 1E5         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....27 | 57.11.3159   | 1E5         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....28 | 57.11.3159   | 1E5         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....29 | 57.11.3159   | 1E5         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....30 | 57.11.3159   | 1E5         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....31 | 57.11.3159   | 1E5         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....32 | 57.11.3159   | 1E5         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....33 | 57.11.3159   | 1E5         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....34 | 57.11.3159   | 1E5         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....35 | 57.11.3159   | 1E5         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....36 | 57.11.3159   | 1E5         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....37 | 57.11.3159   | 1E5         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....38 | 57.11.3159   | 1E5         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....39 | 57.13.4229   | 2E2         | 2 %              | 1W,                      | MF |         |             |                  |              |
| R....40 | 57.11.3159   | 1E5         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....41 | 57.11.3159   | 1E5         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....42 | 57.11.3159   | 1E5         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....43 | 57.11.3159   | 1E5         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....44 | 57.11.3159   | 1E5         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....45 | 57.11.3159   | 1E5         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....46 | 57.11.3159   | 1E5         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....47 | 57.11.3159   | 1E5         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....48 | 57.11.3159   | 1E5         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....49 | 57.11.3159   | 1E5         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....50 | 57.11.3159   | 1E5         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....51 | 57.11.3159   | 1E5         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....52 | 57.11.3159   | 1E5         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....53 | 57.11.3159   | 1E5         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....54 | 57.11.3159   | 1E5         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....55 | 57.13.4229   | 2E2         | 2 %              | 1W,                      | MF |         |             |                  |              |
| R....56 | 57.11.3472   | 4k7         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....57 | 57.11.3220   | 22E         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....58 | 57.13.4229   | 2E2         | 2 %              | 1W,                      | MF |         |             |                  |              |
| R....59 | 57.11.3222   | 2k2         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....60 | 57.11.3104   | 100k        | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....61 | 00.00.0000   | not used    |                  |                          |    |         |             |                  |              |
| R....62 | 57.11.3562   | 5k6         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....63 | 57.11.3562   | 5k6         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....64 | 57.11.3334   | 330k        | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....65 | 57.11.3472   | 4k7         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....66 | 57.11.3822   | 8k2         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....67 | 57.11.3222   | 2k2         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....68 | 57.11.3222   | 2k2         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....69 | 57.11.3512   | 5k1         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....70 | 57.11.3222   | 2k2         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....71 | 57.11.3104   | 100k        | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....72 | 57.11.3103   | 10k         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....73 | 57.11.3102   | 1k          | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....74 | 57.11.3152   | 1k5         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....75 | 57.11.3221   | 220E        | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....76 | 57.11.3220   | 22E         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....77 | 57.11.3470   | 47E         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....78 | 57.11.3100   | 10E         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....79 | 57.11.3822   | 8k2         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....80 | 57.11.3512   | 5k1         | 1 %              | 0.6W,                    | MF |         |             |                  |              |
| R....81 | 57.11.5155   | 1M5         | 5 %              | 0.4W,                    | MF |         |             |                  |              |
| RA....1 | 58.05.1103   | 10k         | 10 %             | 0.5W, SCREW ON TOP       |    |         |             |                  |              |
| RA....2 | 00.00.0000   | not used    |                  |                          |    |         |             |                  |              |
| T....1  | 1.022.247.00 | 1:1:1       | RM5/6,           | DRIVE TRAF0 1.022.247.00 |    |         |             |                  |              |
| T....2  | 1.022.246.00 | CHOKE       | ETD39,           | CHOKE COIL 1.022.246.00  |    |         |             |                  |              |
| T....3  | 1.022.247.00 | 1:1:1       | RM5/6,           | DRIVE TRAF0 1.022.247.00 |    |         |             |                  |              |

END  
+

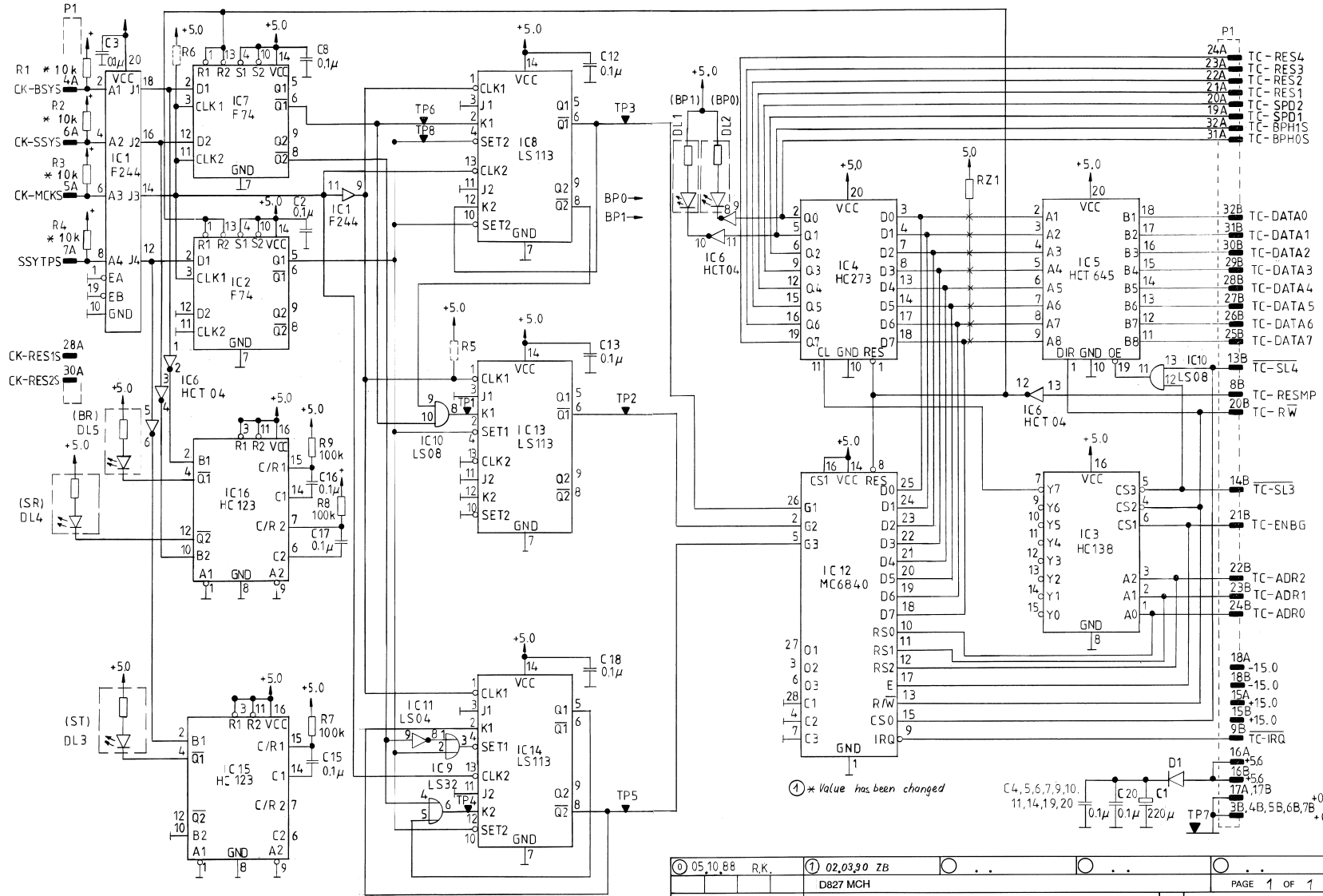
ductors, Ph=Philips (incl. Valvo), RCA=Radio Corporation of America, Ses=Sescosem, SGS=SGS/Ates, Sig=Signetics, Sie=Siemens, St=Studer, Tf=Telefunken, Tho=Thomson, To=Toshiba, Vo=Vogt & Co.  
1.863.875.00 SPOOLING MOTOR DRIVE AMPLIFIER PZ 93/07/3000  
1.863.875.00 SPOOLING MOTOR DRIVE AMPLIFIER PZ 94/01/1701  
1.863.875.00 SPOOLING MOTOR DRIVE AMPLIFIER BN 95/03/1002

- Note 1 - Connector 4 contacts:  
AMP nr. 826848-3  
AMP nr. 826848-1
- Note 2 - Connector 2 contacts:  
AMP nr. 826846-3
- Note 3 - Connector 16 contacts:  
Yamaichi nr. FAP-16-08-40SS  
Burndy nr. BPH 9 B16 800 GS  
3M nr. 7616-6002 VZ
- Note 4 - All power transistors must be from the same type and manufacturer.
- Manufacturer: Ex=Exar, Fc=Fairchild, IR=International Rectifier,  
ITT=Intermetal, Mot=Motorola, NS=National Semicon-



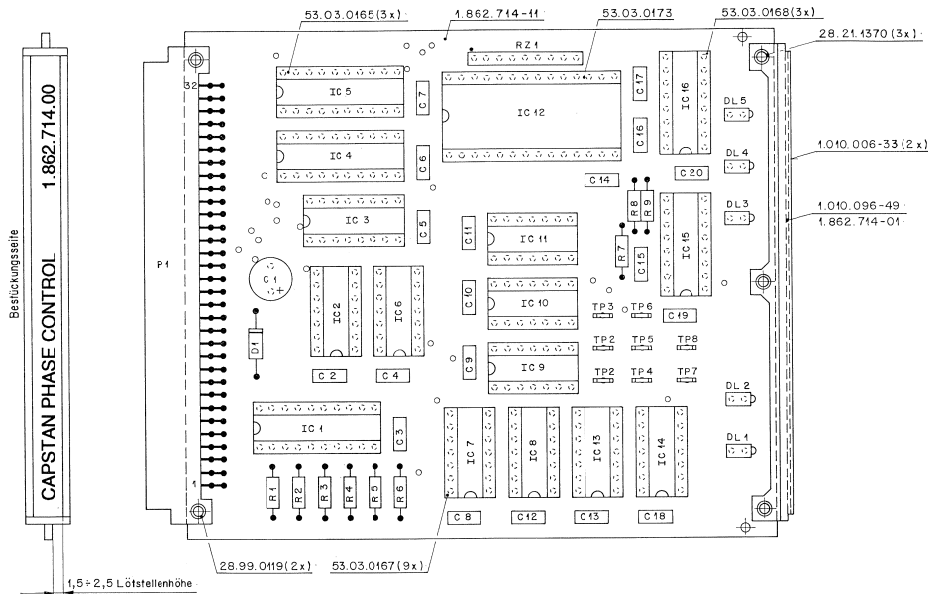


CAPSTAN PHASE CONTROL BOARD 1.862.714.00



|        |          |    |   |          |                             |     |             |     |              |
|--------|----------|----|---|----------|-----------------------------|-----|-------------|-----|--------------|
| 0      | 05,10,88 | RK | 1 | 02,03,90 | ZB                          | ... | ...         | ... |              |
|        |          |    |   |          | D827 MCH                    |     | PAGE 1 OF 1 |     |              |
| STUDER |          |    |   |          | CAPSTAN PHASE CONTROL BOARD |     |             |     | 1.862.714-00 |

CAPSTAN PHASE CONTROL BOARD 1.862.714.00



|             |             |       |      |       |  |
|-------------|-------------|-------|------|-------|--|
| Arbeitsplan | Arbeitsplan |       |      |       |  |
| Datum       | Gez.        | Gepr. | Ges. | Index |  |
| 10.5.89     | M           | V     |      |       |  |

|                                 |   |                      |
|---------------------------------|---|----------------------|
| STUDER<br>REINIGSDORF<br>ZÜRICH | Bezeichnung: CAPSTAN PHASE<br>CONTROL BOARD ESE | Nummer: 1.862.714-00 |
|---------------------------------|---|----------------------|

Ad . . . POS . . . REF.No . . . DESCRIPTION . . . . . MANUFACTURER

|          |            |                 |                    |     |                             |
|----------|------------|-----------------|--------------------|-----|-----------------------------|
| C....1   | 59.22.3221 | 220 nF          | 10V                | E1  |                             |
| C....2   | 59.06.0104 | 100 nF          | 10%                | 63V | PETP                        |
| C....3   | 59.06.0104 | 100 nF          | 10%                | 63V | PETP                        |
| C....4   | 00.00.0000 | not used        |                    |     |                             |
| C....5   | 59.06.0104 | 100 nF          | 10%                | 63V | PETP                        |
| C....6   | 00.00.0000 | not used        |                    |     |                             |
| C....7   | 59.06.0104 | 100 nF          | 10%                | 63V | PETP                        |
| C....8   | 59.06.0104 | 100 nF          | 10%                | 63V | PETP                        |
| C....9   | 59.06.0104 | 100 nF          | 10%                | 63V | PETP                        |
| C....10  | 00.00.0000 | not used        |                    |     |                             |
| C....11  | 00.00.0000 | not used        |                    |     |                             |
| C....12  | 59.06.0104 | 100 nF          | 10%                | 63V | PETP                        |
| C....13  | 00.00.0000 | not used        |                    |     |                             |
| C....14  | 00.00.0000 | not used        |                    |     |                             |
| C....15  | 59.06.0104 | 100 nF          | 10%                | 63V | PETP                        |
| C....16  | 59.06.0104 | 100 nF          | 10%                | 63V | PETP                        |
| C....17  | 59.06.0104 | 100 nF          | 10%                | 63V | PETP                        |
| C....18  | 59.06.0104 | 100 nF          | 10%                | 63V | PETP                        |
| C....19  | 59.06.0104 | 100 nF          | 10%                | 63V | PETP                        |
| C....20  | 00.00.0000 | not used        |                    |     |                             |
| D....1   | 50.04.0512 | 1N 5818         | 1N 5819            |     | Mot                         |
| DL....1  | 50.04.2107 | 555-2007        |                    |     | D1                          |
| DL....2  | 50.04.2107 | 555-2007        |                    |     | D1                          |
| DL....3  | 50.04.2107 | 555-2007        |                    |     | D1                          |
| DL....4  | 50.04.2107 | 555-2007        |                    |     | D1                          |
| DL....5  | 50.04.2107 | 555-2007        |                    |     | D1                          |
| IC....1  | 50.21.0244 | 74 F244 PC      | N 74 F 244 PC      |     | Fc,Sig                      |
| IC....2  | 50.21.0074 | 74 F 74 PC      | MC 74 F 74 N       |     | Fc,Mot                      |
| IC....3  | 50.17.1138 | CD74HC138E      | .. 74 HC 138 .     |     | Mot,NS,Ph,RCA,SGS,Tho,TI,To |
| IC....4  | 50.17.1273 | CD74HC273E      | .. 74 HC 273 .     |     | Mot,NS,Ph,RCA,SGS,Tho,TI,To |
| IC....5  | 50.17.0645 | SN 74 HCT 645 N | SN 74 HCT 645 N    |     | TI                          |
| IC....6  | 50.17.0004 | CD74HC04E       | .. 74 HCT 04 .     |     | Mot,NS,Ph,RCA,SGS,Tho,To    |
| IC....7  | 50.21.0074 | 74 F 74 PC      | MC 74 F 74 N       |     | Fc,Mot                      |
| IC....8  | 50.06.0113 | N74LS113N       | SN 74 LS 113 N     |     | Sig,TI                      |
| IC....9  | 50.06.0032 | 74LS32PC        | .. 74 LS 32 .      |     | Fc,NS,Sig,TI                |
| IC....10 | 50.06.0008 | N74LS08N        | .. 74 LS 08 .      |     | NS,Sig,TI                   |
| IC....11 | 50.06.0004 | 74LS04PC        | .. 74 LS 04 .      |     | Fc,NS,Sig,TI                |
| IC....12 | 50.16.0113 | MC 68A40 P      | HD 68 A 40 P       |     | Hi,Mot                      |
| IC....13 | 50.06.0113 | N74LS113N       | SN 74 LS 113 N     |     | Sig,TI                      |
| IC....14 | 50.06.0113 | N74LS113N       | SN 74 LS 113 N     |     | Sig,TI                      |
| IC....15 | 50.17.1123 | CD74HC123E      | .. 74 HC 123 .     |     | NS,Ph,RCA,SGS,Tho,To        |
| IC....16 | 50.17.1123 | CD74HC123E      | .. 74 HC 123 .     |     | NS,Ph,RCA,SGS,Tho,To        |
| P....1   | 54.11.2004 | Connector       | EURO 2 * 32, PRINT |     |                             |
| R....1   | 57.11.3221 | 220 Ohm         | 1%                 |     |                             |
| R....2   | 57.11.3103 | 10 kOhm         | 10%                |     |                             |
| R....3   | 57.11.3221 | 220 Ohm         | 1%                 |     |                             |
| R....4   | 57.11.3103 | 10 kOhm         | 10%                |     |                             |
| R....5   | 57.11.3103 | 10 kOhm         | 10%                |     |                             |
| R....6   | 57.11.3221 | 220 Ohm         | 1%                 |     |                             |
| R....7   | 57.11.3104 | 100 kOhm        | 1%                 |     |                             |
| R....8   | 57.11.3104 | 100 kOhm        | 1%                 |     |                             |
| R....9   | 57.11.3104 | 100 kOhm        | 1%                 |     |                             |
| RZ....1  | 57.88.4103 | 8*10 kOhm       | SIP 9              |     |                             |
| TP....1  | 54.02.0320 | Testpoint       |                    |     |                             |
| TP....2  | 54.02.0320 | Testpoint       |                    |     |                             |
| TP....3  | 54.02.0320 | Testpoint       |                    |     |                             |
| TP....4  | 54.02.0320 | Testpoint       |                    |     |                             |
| TP....5  | 54.02.0320 | Testpoint       |                    |     |                             |
| TP....6  | 54.02.0320 | Testpoint       |                    |     |                             |
| TP....7  | 54.02.0320 | Testpoint       |                    |     |                             |
| TP....8  | 54.02.0320 | Testpoint       |                    |     |                             |

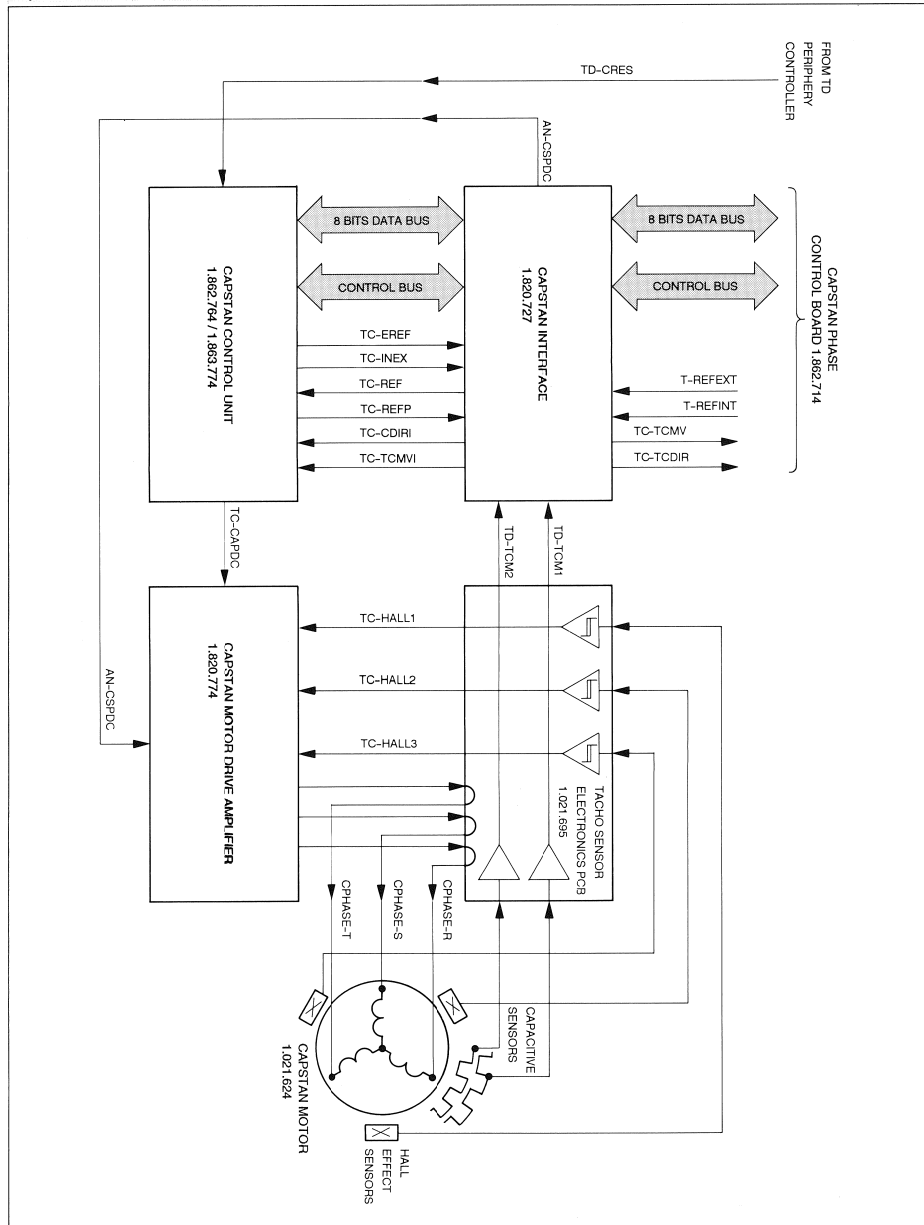
(01) 02.03.90 Value of pull-up resistors R1 to R4 increased, because of driver overload.

E1=Electrolytic, PETP=Polyesterfilm

MANUFACTURER: Di=Diaco, Fc=Fairchild, Hi=Hitachi, Mot=Motorola, NS=National Semiconductors, Ph=Philips, RCA=Radio Corporation of America, SGS=SGS/Ates, Sig=Signetics, Tho=Thomson, TI=Texas Instruments, To=Toshiba.

- 1.862.714.00 CAPSTAN PHASE CONTROL BOARD 1V89/05/1000
- 1.862.714.00 CAPSTAN PHASE CONTROL BOARD 8B190/03/0201

**BLOCK DIAGRAM**  
Capstan Control (overview)

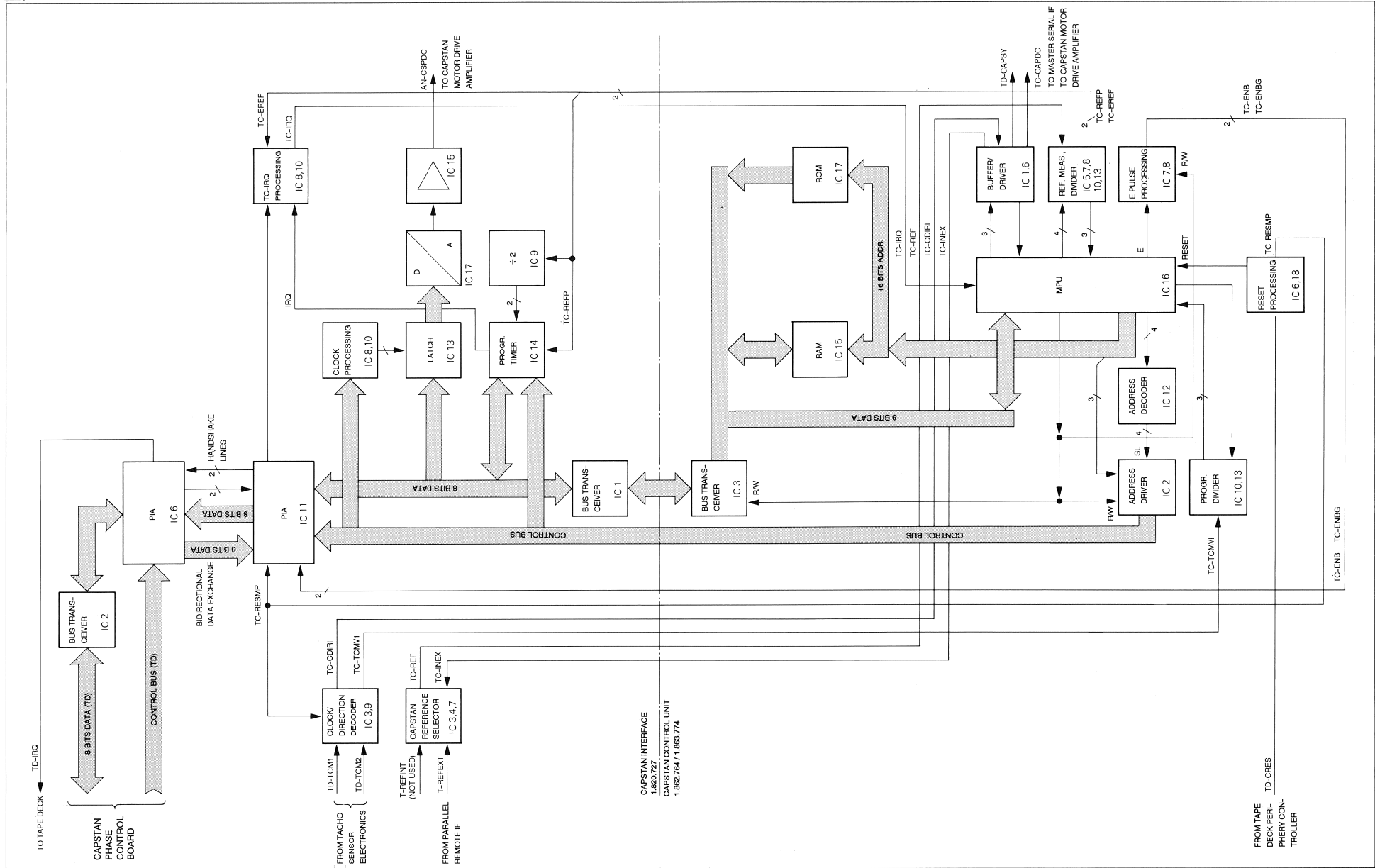


**STUDER D827 MCH**

**BLOCK DIAGRAM**

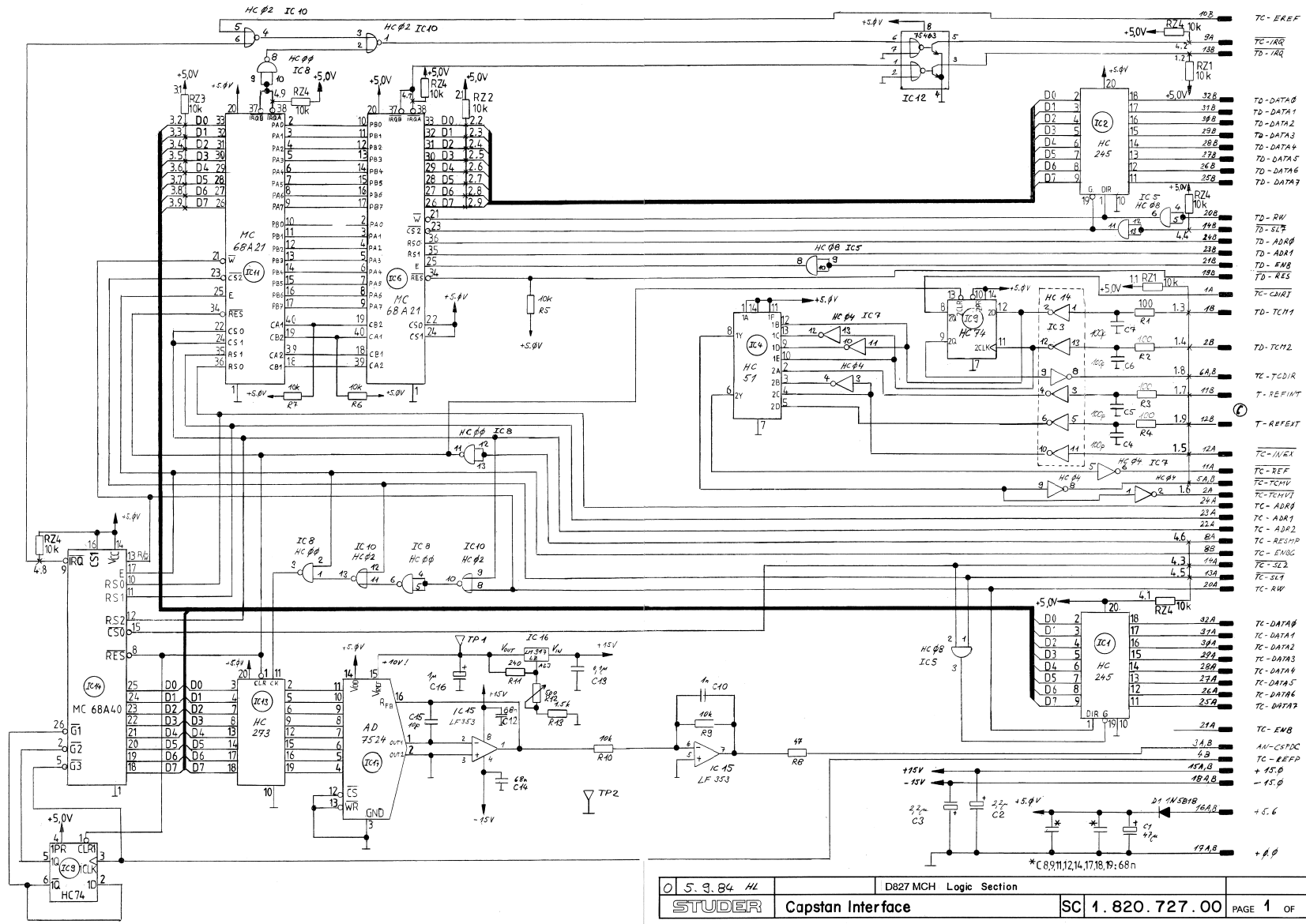
Capstan Interface 1.820.727

Capstan Control Unit 1.862.764 / 1.863.774



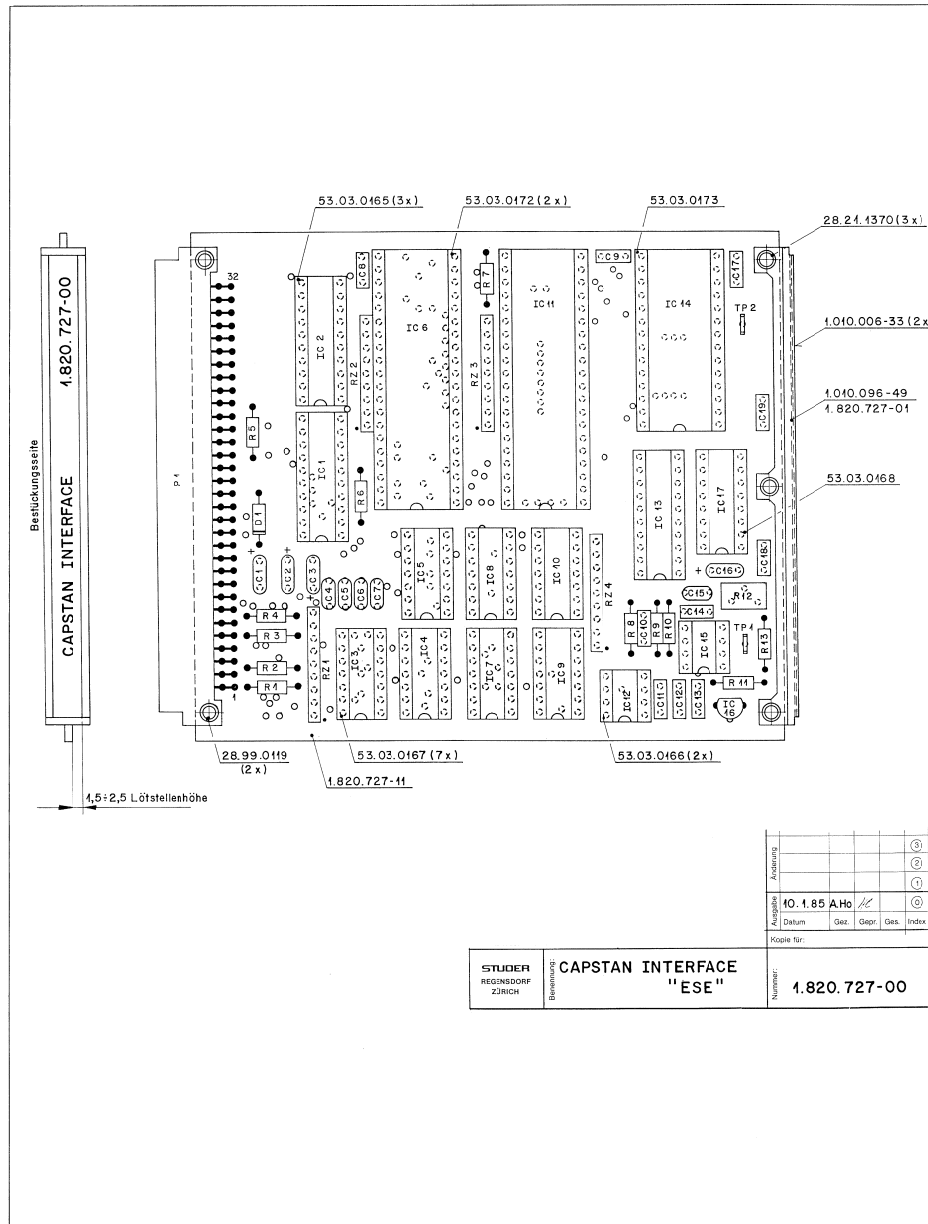


CAPSTAN INTERFACE 1.820.727.00



|               |                          |                        |
|---------------|--------------------------|------------------------|
| 0 5 3 84 HL   | D827 MCH Logic Section   |                        |
| <b>STUDER</b> | <b>Capstan Interface</b> | <b>SC 1.820.727.00</b> |
|               |                          | PAGE 1 OF 1            |

CAPSTAN INTERFACE 1.820.727.00



Ad . . . POS. . . . . REF.No. . . . . DESCRIPTION . . . . . MANUFACTURER

|          |            |   |                           |                          |
|----------|------------|---|---------------------------|--------------------------|
| C....1   | 59.26.0470 | 47 uF                                       | 20%, 6.3V                 | Ph                       |
| C....2   | 59.26.5229 | 2.2 uF                                      | 20%, 16V                  | Ph                       |
| C....3   | 59.26.5229 | 2.2 uF                                      | 20%, 16V                  | Ph                       |
| C....4   | 59.45.4101 | 100 pF                                      | 20%                       | Ph                       |
| C....5   | 59.45.4101 | 100 pF                                      | 20%                       | Ph                       |
| C....6   | 59.45.4101 | 100 pF                                      | 20%                       | Ph                       |
| C....7   | 59.45.4101 | 100 pF                                      | 20%                       | Ph                       |
| C....8   | 59.06.0683 | 68 nF                                       | 20%                       | Sie                      |
| C....9   | 59.06.0683 | 68 nF                                       | 20%                       | Sie                      |
| C....10  | 59.32.4102 | 1 nF  | 20%                       | Ph                       |
| C....11  | 59.06.0683 | 68 nF                                       | 20%                       | Sie                      |
| C....12  | 59.06.0683 | 68 nF                                       | 20%                       | Sie                      |
| C....13  | 59.06.0104 | 100 nF                                      | 20%                       | Sie                      |
| C....14  | 59.06.0683 | 68 nF                                       | 20%                       | Sie                      |
| C....15  | 59.45.1100 | 10 pF                                       | 10%                       | Ph                       |
| C....16  | 59.26.9109 | 1 uF  | 20%, 16V                  | Ph                       |
| C....17  | 59.06.0683 | 68 nF                                       | 20%                       | Sie                      |
| C....18  | 59.06.0683 | 68 nF                                       | 20%                       | Sie                      |
| C....19  | 59.06.0683 | 68 nF                                       | 20%                       | Sie                      |
| D....1   | 50.04.0512 | IN 5818                                     | IN 5819                   | Mot                      |
| IC....1  | 50.17.1245 | 74 HC 245                                   |                           | Mot, NS, To, Ph, RCA, TI |
| IC....2  | 50.17.1245 | 74 HC 245                                   |                           | Mot, NS, To, Ph, RCA, TI |
| IC....3  | 50.17.1014 | 74 HC 14                                    |                           | Mot, NS, To, Ph, RCA, TI |
| IC....4  | 50.17.1051 | 74 HC 51                                    |                           | Mot, NS, To, Ph, RCA, TI |
| IC....5  | 50.17.1008 | 74 HC 08                                    |                           | Mot, NS, To, Ph, RCA, TI |
| IC....6  | 50.16.0106 | MC68A21P                                    |                           | Mot, AMI, Fc             |
| IC....7  | 50.17.1004 | 74 HC 04                                    |                           | Mot, NS, To, Ph, RCA, TI |
| IC....8  | 50.17.1000 | 74 HC 00                                    |                           | Mot, NS, To, Ph, RCA, TI |
| IC....9  | 50.17.1074 | 74 HC 74                                    |                           | Mot, NS, To, Ph, RCA, TI |
| IC....10 | 50.17.1002 | 74 HC 02                                    |                           | Mot, NS, To, Ph, RCA, TI |
| IC....11 | 50.16.0106 | MC68A21P                                    |                           | Mot, AMI, Fc             |
| IC....12 | 50.05.0203 | SN75463P                                    | DS3613N                   | TI, NS                   |
| IC....13 | 50.17.1273 | 74 HC 273                                   |                           | Mot, NS, To, Ph, RCA, TI |
| IC....14 | 50.16.0113 | MC68A40                                     | HD68A40                   | Mot, HI                  |
| IC....15 | 50.09.0101 | TL072CP                                     | LF353N                    | TI, NS                   |
| IC....16 | 50.10.0108 | LW 317 IZ                                   |                           | Net, Mot                 |
| IC....17 | 50.07.0002 | AD7524JN                                    |                           | ADI, MPS                 |
| P....1   | 54.11.2004 | P1ug  |                           | see note 1               |
| R....1   | 57.11.4101 | 100 Ohm                                     | 10%                       |                          |
| R....2   | 57.11.4101 | 100 Ohm                                     | 10%                       |                          |
| R....3   | 57.11.4101 | 100 Ohm                                     | 10%                       |                          |
| R....4   | 57.11.4101 | 100 Ohm                                     | 10%                       |                          |
| R....5   | 57.11.4103 | 10 kOhm                                     | 10%                       |                          |
| R....6   | 57.11.4103 | 10 kOhm                                     | 10%                       |                          |
| R....7   | 57.11.4103 | 10 kOhm                                     | 10%                       |                          |
| R....8   | 57.11.4470 | 47 Ohm                                      | 10%                       |                          |
| R....9   | 57.11.4103 | 10 kOhm                                     | 5%                        |                          |
| R....10  | 57.11.4103 | 10 kOhm                                     | 5%                        |                          |
| R....11  | 57.11.3241 | 240 Ohm                                     | 10%                       |                          |
| R....12  | 58.05.0501 | 500 Ohm                                     | Potentiometer, see note 2 |                          |
| R....13  | 57.11.4152 | 1.5 kOhm                                    | 10%                       |                          |
| RZ....1  | 57.88.4103 | Network 8 * 10 kOhm (old part 1.010.014.57) |                           |                          |
| RZ....2  | 57.88.4103 | Network 8 * 10 kOhm (old part 1.010.014.57) |                           |                          |
| RZ....3  | 57.88.4103 | Network 8 * 10 kOhm (old part 1.010.014.57) |                           |                          |
| RZ....4  | 57.88.4103 | Network 8 * 10 kOhm (old part 1.010.014.57) |                           |                          |
| TP....1  | 54.02.0320 | Testpoint                                   |                           |                          |
| TP....2  | 54.02.0320 | Testpoint                                   |                           |                          |

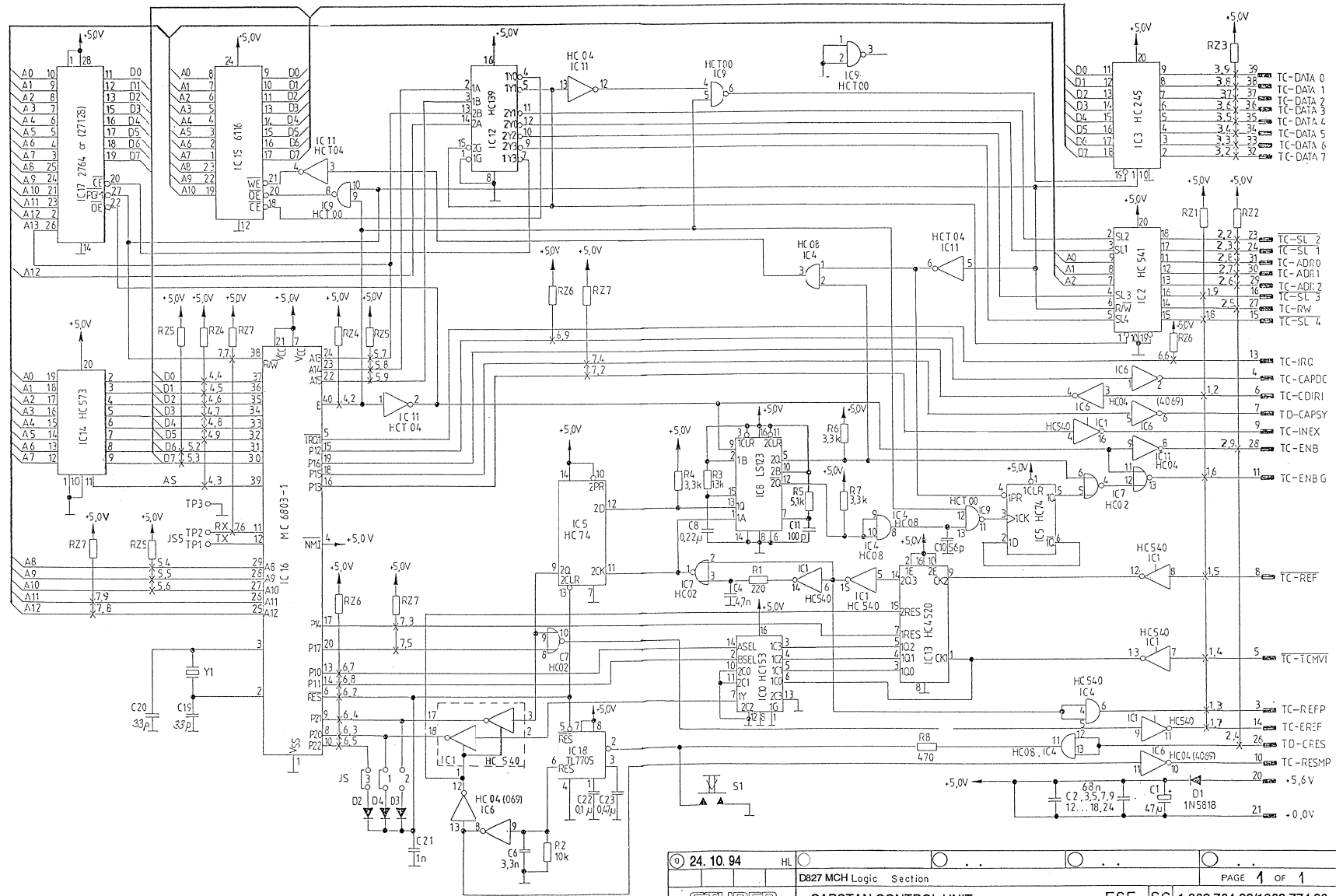
Note 1 - Plug : 2 \* 32 Euro board  
 Burndy P1 64 B 20 P00 F00 Z0  
 Erni 9722.563.191

Note 2 - Potentiometer : 500 Ohm, 10%, .5W, PMG  
 Bourns 3296 Z - 1 - 801  
 Spectrol 64 Z 501 T 000

Manufacturer: ADI=Analog Devices Inc., AMI=American Microsystem Inc.,  
 Fc=Fairchild, HI=Hitachi, NS=National, NI=Nippon  
 MPS=Micro Power Systems, Net=National (Matsushita),  
 NS=National Semiconductors, Ph=Philips (incl. Valvo),  
 RCA=Radio Corporation of America, TI=Texas Instruments,  
 To=Tokyo

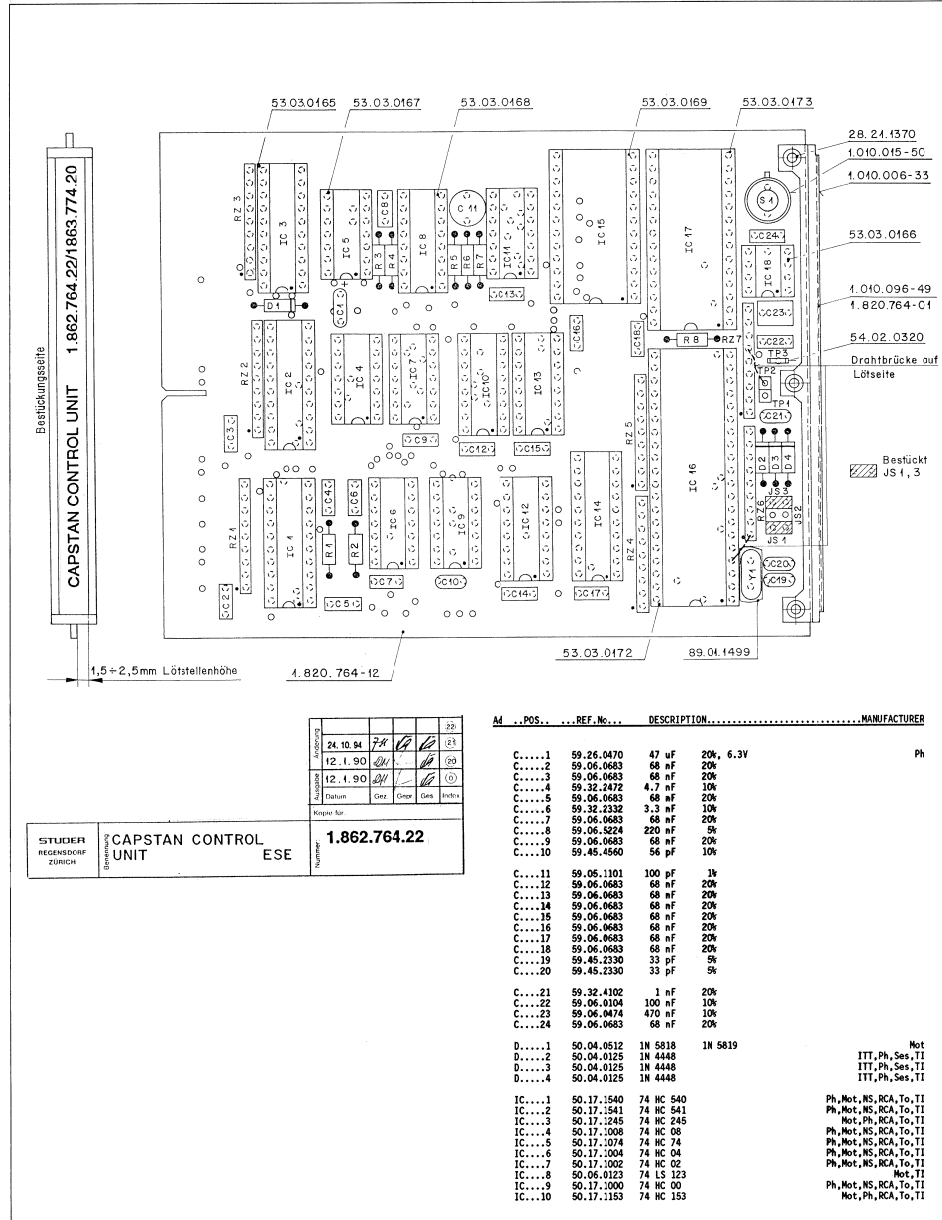


CAPSTAN CONTROL UNIT 1.862.764.22  
 CAPSTAN CONTROL UNIT 1.863.774.20



|                               |    |  |  |  |     |  |                             |  |  |
|-------------------------------|----|--|--|--|-----|--|-----------------------------|--|--|
| 24.10.94                      | HL |  |  |  |     |  |                             |  |  |
| STUDER D827 MCH Logic Section |    |  |  |  |     |  |                             |  |  |
| CAPSTAN CONTROL UNIT          |    |  |  |  | ESE |  | SC 1.862.764.22/1863.774.20 |  |  |
| PAGE 1 OF 1                   |    |  |  |  |     |  |                             |  |  |

CAPSTAN CONTROL UNIT 1.862.764.22  
CAPSTAN CONTROL UNIT 1.863.774.20



| Ad  | POS. | REF.No.    | DESCRIPTION               | MANUFACTURER                      |
|---|------|------------|---------------------------|-----------------------------------|
| IC  | 11   | 50.17.0004 | 74 HCT 04                 | Ph, NS, RCA                       |
| IC  | 12   | 50.17.1139 | 74 HC 139                 | Ph, Mot, NS, RCA, SGS, To, TI     |
| IC  | 13   | 50.07.0820 | 4520 BPC                  | Ph, Tc                            |
| IC  | 14   | 50.17.1573 | 74 HC 573                 | HEF 4520 Ph, Mot, NS, RCA, To, TI |
| IC  | 15   | 50.14.0107 | HM6116LP-3                | MSM5128-15 Hi, OKI                |
| IC  | 16   | 50.16.0107 | MC68036-1                 | HD6803P-L Hi, Mot                 |
| IC  | 17   | 50.14.0125 | M 27128AF1                | (SW 1.863.950.20) Fuji, Hi, It    |
| IC  | 18   | 50.11.0122 | TL7705ACP                 | TI                                |
| JS  | 1    | 54.01.0020 | Connector                 | Jumper unit see note 2            |
| JS  | 2    | 54.01.0020 | Connector                 | Jumper unit see note 2            |
| JS  | 3    | 54.01.0020 | Connector                 | Jumper unit see note 2            |
| R   | 1    | 57.11.4221 | 220 Ohm                   | 2%                                |
| R   | 2    | 57.11.4103 | 10 kOhm                   | 10%                               |
| R   | 3    | 57.11.2133 | 13 kOhm                   | 2%                                |
| R   | 4    | 57.11.4332 | 3.3 kOhm                  | 10%                               |
| R   | 5    | 57.11.3512 | 5.1 kOhm                  | 2%                                |
| R   | 6    | 57.11.4332 | 3.3 kOhm                  | 10%                               |
| R   | 7    | 57.11.4332 | 3.3 kOhm                  | 10%                               |
| R   | 8    | 57.11.4471 | 470 Ohm                   | 10%                               |
| RZ  | 1    | 57.88.4103 | Network 8 * 10 kOhm       | (old part 1.010.014.57)           |
| RZ  | 2    | 57.88.4103 | Network 8 * 10 kOhm       | (old part 1.010.014.57)           |
| RZ  | 3    | 57.88.4103 | Network 8 * 10 kOhm       | (old part 1.010.014.57)           |
| RZ  | 4    | 57.88.4332 | Network 8 * 3.3 kOhm      |                                   |
| RZ  | 5    | 57.88.4332 | Network 8 * 3.3 kOhm      |                                   |
| RZ  | 6    | 57.88.4103 | Network 8 * 10 kOhm       | (old part 1.010.014.57)           |
| RZ  | 7    | 57.88.4332 | Network 8 * 3.3 kOhm      |                                   |
| S   | 1    | 55.03.0122 | Switch impuls, see note 3 |                                   |
| TP  | 1    | 54.01.0020 | Connector                 | 1 contact                         |
| TP  | 2    | 54.01.0020 | Connector                 | 1 contact                         |
| TP  | 3    | 54.02.0320 | Connector                 | 1 contact, flat                   |
| Y   | 1    | 89.01.0560 | 4.9152 MHz, +- 20 ppm.    |                                   |
| (20) 12.01.90 Software 25/90  |      |            |                           |                                   |
| (21) 31.01.91 Software 03/91  |      |            |                           |                                   |
| (22) 31.07.93 Software 43/92  |      |            |                           |                                   |
| Note 1 - IC 17 for Software 25/90 and future versions:<br>Studer 50.14.0125<br>Fujitsu MM 27128-30<br>Hitachi HN 4827128 G-25/HH 4827128 G-30<br>Intel 27128 250ms  |      |            |                           |                                   |
| Note 2 - JS1 - JS3 2" Contact pin 54.01.0020<br>Contact pin: Studer 54.01.0020<br>Berg 75 160-102-36<br>Philips 2422 025 89303<br>Bridge: Studer 54.01.0021<br>Berg 65 474-001<br>Philips 2422 024 88003  |      |            |                           |                                   |
| Note 3 - Switch impuls: Chicago Switch 34-550-001   |      |            |                           |                                   |
| MANUFACTURER: F=Fairchild, ITT=Intermetall, Hi=Hitachi, Mot=Motorola, NS=National Semiconductors, OKI=OKI Semiconductors, Ph=Philips, RCA=Radio Corporation of America, Ses=Secossem, SGS=SGS-Ates, St=Studer, TI=Texas Instruments, To= Toshiba. |      |            |                           |                                   |
| 1.862.764.00 CAPSTAN CONTROL UNIT VF 90/01/1200   |      |            |                           |                                   |
| 1.862.764.00 CAPSTAN CONTROL UNIT VF 90/01/1220   |      |            |                           |                                   |
| 1.862.764.00 CAPSTAN CONTROL UNIT VF 91/01/1321   |      |            |                           |                                   |
| 1.862.764.00 CAPSTAN CONTROL UNIT GP 93/07/1922   |      |            |                           |                                   |
| END   |      |            |                           |                                   |

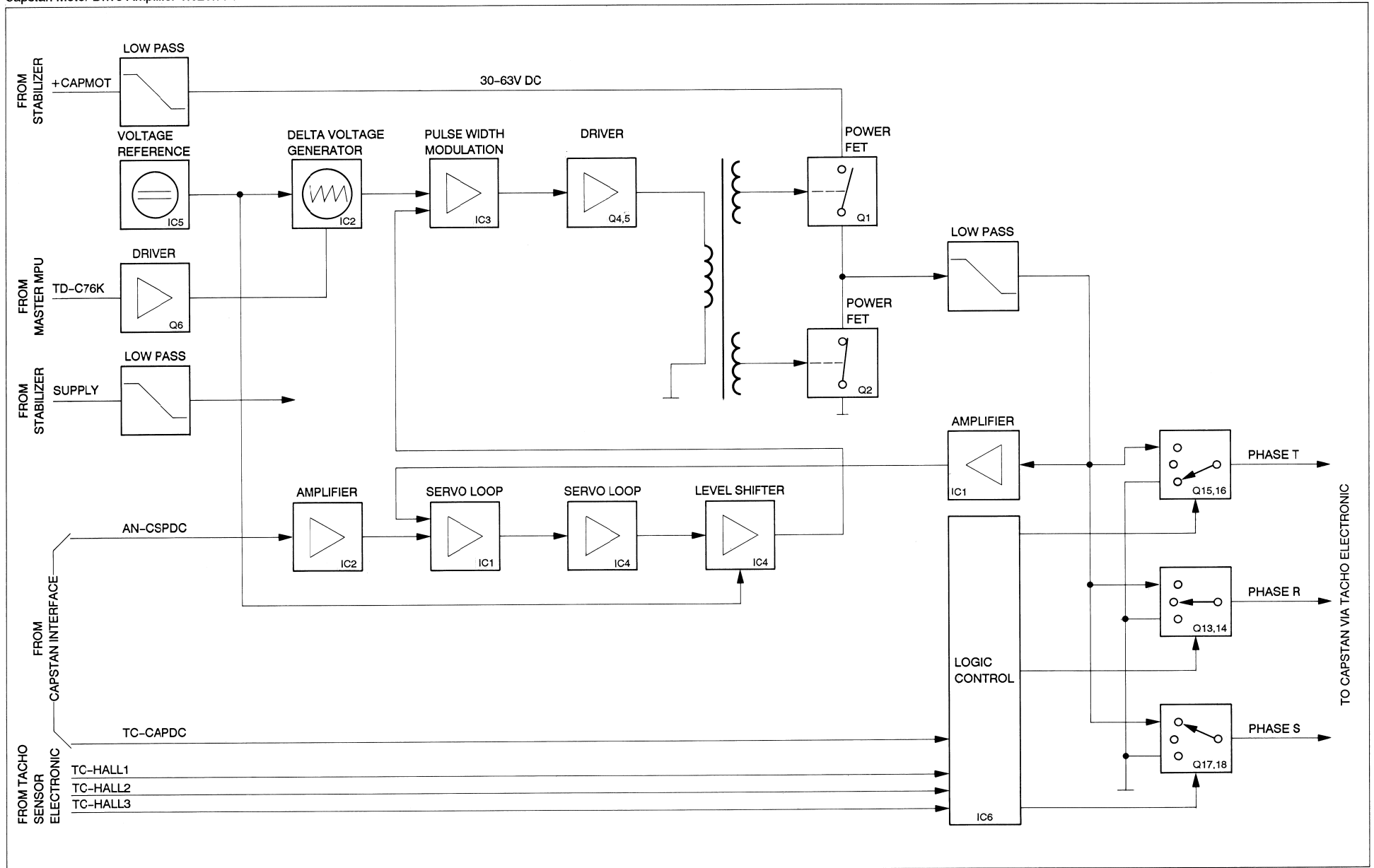
CAPSTAN CONTROL UNIT 1.863.774.20

| Ad  | POS. | REF.No.    | DESCRIPTION               | MANUFACTURER                      |
|---|------|------------|---------------------------|-----------------------------------|
| C   | 1    | 59.26.0470 | 47 uF                     | 20%, 6.3V Ph                      |
| C   | 2    | 59.06.0683 | 68 nF                     | 20%                               |
| C   | 3    | 59.06.0683 | 68 nF                     | 20%                               |
| C   | 4    | 59.32.2472 | 4.7 nF                    | 10%                               |
| C   | 5    | 59.06.0683 | 68 nF                     | 20%                               |
| C   | 6    | 59.32.2332 | 3.3 nF                    | 10%                               |
| C   | 7    | 59.06.0683 | 68 nF                     | 20%                               |
| C   | 8    | 59.06.5224 | 220 nF                    | 5%                                |
| C   | 9    | 59.06.0683 | 68 nF                     | 20%                               |
| C   | 10   | 59.45.4560 | 56 pF                     | 10%                               |
| C   | 11   | 59.05.1101 | 100 pF                    | 1%                                |
| C   | 12   | 59.06.0683 | 68 nF                     | 20%                               |
| C   | 13   | 59.06.0683 | 68 nF                     | 20%                               |
| C   | 14   | 59.06.0683 | 68 nF                     | 20%                               |
| C   | 15   | 59.06.0683 | 68 nF                     | 20%                               |
| C   | 16   | 59.06.0683 | 68 nF                     | 20%                               |
| C   | 17   | 59.06.0683 | 68 nF                     | 20%                               |
| C   | 18   | 59.06.0683 | 68 nF                     | 20%                               |
| C   | 19   | 59.45.2330 | 33 pF                     | 5%                                |
| C   | 20   | 59.45.2330 | 33 pF                     | 5%                                |
| C   | 21   | 59.32.4102 | 1 nF                      | 20%                               |
| C   | 22   | 59.06.0104 | 100 nF                    | 10%                               |
| C   | 23   | 59.06.0474 | 470 nF                    | 10%                               |
| C   | 24   | 59.06.0683 | 68 nF                     | 20%                               |
| D   | 1    | 50.04.0512 | 1N 5818                   | 1N 5819 Mot                       |
| D   | 2    | 50.04.0125 | 1N 4448                   | ITT, Ph, Ses, TI                  |
| D   | 3    | 50.04.0125 | 1N 4448                   | ITT, Ph, Ses, TI                  |
| D   | 4    | 50.04.0125 | 1N 4448                   | ITT, Ph, Ses, TI                  |
| IC  | 1    | 50.17.1540 | 74 HC 540                 | Ph, Mot, NS, RCA, To, TI          |
| IC  | 2    | 50.17.1541 | 74 HC 541                 | Ph, Mot, NS, RCA, To, TI          |
| IC  | 3    | 50.17.1245 | 74 HC 245                 | Ph, Mot, NS, RCA, To, TI          |
| IC  | 4    | 50.17.1008 | 74 HC 08                  | Ph, Mot, NS, RCA, To, TI          |
| IC  | 5    | 50.17.1074 | 74 HC 74                  | Ph, Mot, NS, RCA, To, TI          |
| IC  | 6    | 50.17.1004 | 74 HC 04                  | Ph, Mot, NS, RCA, To, TI          |
| IC  | 7    | 50.17.1002 | 74 HC 02                  | Ph, Mot, NS, RCA, To, TI          |
| IC  | 8    | 50.06.0123 | 74 LS 123                 | Ph, Mot, NS, RCA, To, TI          |
| IC  | 9    | 50.17.1000 | 74 HC 00                  | Ph, Mot, NS, RCA, To, TI          |
| IC  | 10   | 50.17.1153 | 74 HC 153                 | Ph, Mot, NS, RCA, To, TI          |
| IC  | 11   | 50.17.0004 | 74 HCT 04                 | Ph, NS, RCA                       |
| IC  | 12   | 50.17.1139 | 74 HC 139                 | Ph, Mot, NS, RCA, SGS, To, TI     |
| IC  | 13   | 50.07.0820 | 4520 BPC                  | Ph, Tc                            |
| IC  | 14   | 50.17.1573 | 74 HC 573                 | HEF 4520 Ph, Mot, NS, RCA, To, TI |
| IC  | 15   | 50.14.0107 | HM6116LP-3                | MSM5128-15 Hi, OKI                |
| IC  | 16   | 50.16.0107 | MC68036-1                 | HD6803P-L Hi, Mot                 |
| IC  | 17   | 50.14.0125 | M27128AF1                 | (SW 1.863.950.20) Fuji, Hi, It    |
| IC  | 18   | 50.11.0122 | TL7705ACP                 | TI                                |
| JS  | 1    | 54.01.0020 | Connector                 | Jumper unit see note 2            |
| JS  | 2    | 54.01.0020 | Connector                 | Jumper unit see note 2            |
| JS  | 3    | 54.01.0020 | Connector                 | Jumper unit see note 2            |
| R   | 1    | 57.11.4221 | 220 Ohm                   | 2%                                |
| R   | 2    | 57.11.4103 | 10 kOhm                   | 10%                               |
| R   | 3    | 57.11.2133 | 13 kOhm                   | 2%                                |
| R   | 4    | 57.11.4332 | 3.3 kOhm                  | 10%                               |
| R   | 5    | 57.11.3512 | 5.1 kOhm                  | 2%                                |
| R   | 6    | 57.11.4332 | 3.3 kOhm                  | 10%                               |
| R   | 7    | 57.11.4332 | 3.3 kOhm                  | 10%                               |
| R   | 8    | 57.11.4471 | 470 Ohm                   | 10%                               |
| RZ  | 1    | 57.88.4103 | Network 8 * 10 kOhm       | (old part 1.010.014.57)           |
| RZ  | 2    | 57.88.4103 | Network 8 * 10 kOhm       | (old part 1.010.014.57)           |
| RZ  | 3    | 57.88.4103 | Network 8 * 10 kOhm       | (old part 1.010.014.57)           |
| RZ  | 4    | 57.88.4332 | Network 8 * 3.3 kOhm      |                                   |
| RZ  | 5    | 57.88.4332 | Network 8 * 3.3 kOhm      |                                   |
| RZ  | 6    | 57.88.4103 | Network 8 * 10 kOhm       | (old part 1.010.014.57)           |
| RZ  | 7    | 57.88.4332 | Network 8 * 3.3 kOhm      |                                   |
| S   | 1    | 55.03.0122 | Switch impuls, see note 3 |                                   |
| TP  | 1    | 54.01.0020 | Connector                 | 1 contact                         |
| TP  | 2    | 54.01.0020 | Connector                 | 1 contact                         |
| TP  | 3    | 54.02.0320 | Connector                 | 1 contact, flat                   |
| Y   | 1    | 89.01.0560 | 4.9152 MHz, +- 20 ppm.    |                                   |
| MANUFACTURER: F=Fairchild, ITT=Intermetall, Hi=Hitachi, Mot=Motorola, NS=National Semiconductors, OKI=OKI Semiconductors, Ph=Philips, RCA=Radio Corporation of America, Ses=Secossem, SGS=SGS-Ates, St=Studer, TI=Texas Instruments, To= Toshiba. |      |            |                           |                                   |
| 1.863.774.20 CAPSTAN CONTROL UNIT MML 94/10/2800  |      |            |                           |                                   |



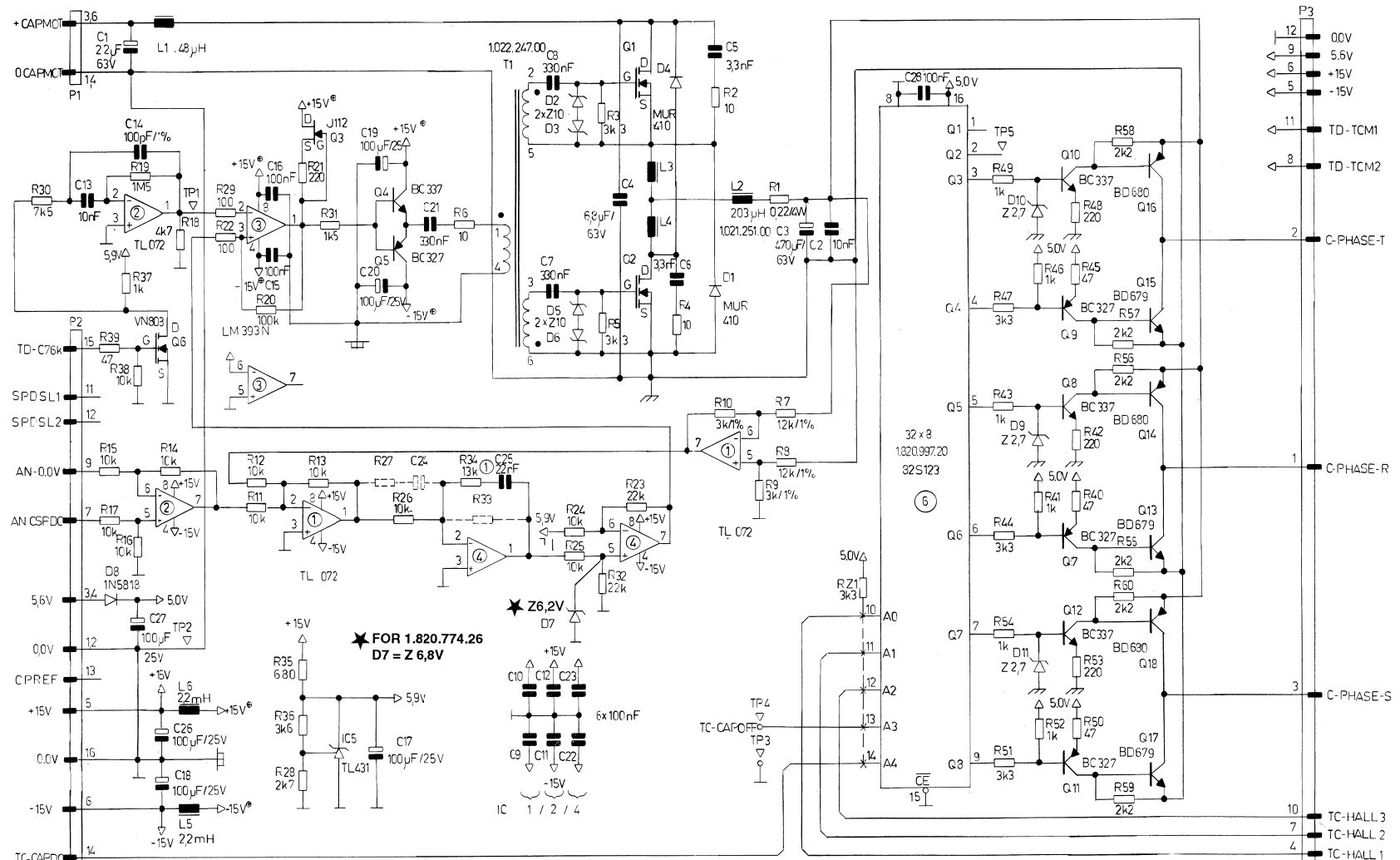
**BLOCK DIAGRAM**

Capstan Motor Drive Amplifier 1.820.774

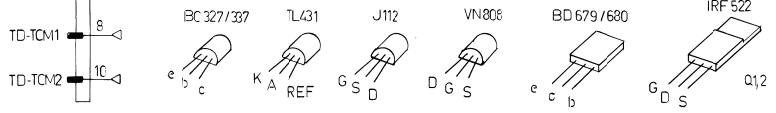




CAPSTAN MOTOR DRIVE AMPLIFIER 1.820.774.26 / 1.820.774.27

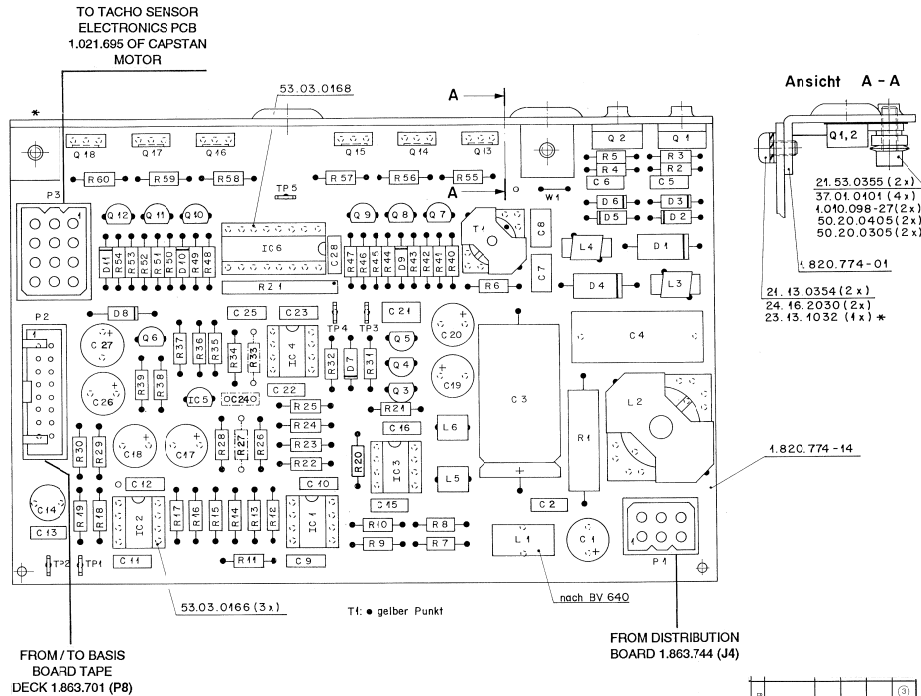


★ FOR 1.820.774.26  
D7 = Z 6,8V



|                                      |                   |         |         |              |
|--------------------------------------|-------------------|---------|---------|--------------|
| ① 16,12,39 ZOLLER                    | ② 14,05,90 ZOLLER | ③ . . . | ④ . . . | ⑤ . . .      |
| D827 MCH                             |                   |         |         |              |
| STUDER CAPSTAN MOTOR DRIVE AMPLIFIER |                   |         | SC      | PAGE 1 OF 1  |
|                                      |                   |         |         | 1.820.774.27 |

CAPSTAN MOTOR DRIVE AMPLIFIER 1.820.774.26 / 1.820.774.27



FROM/TO BASIS BOARD TAPE DECK 1.863.701 (P8)

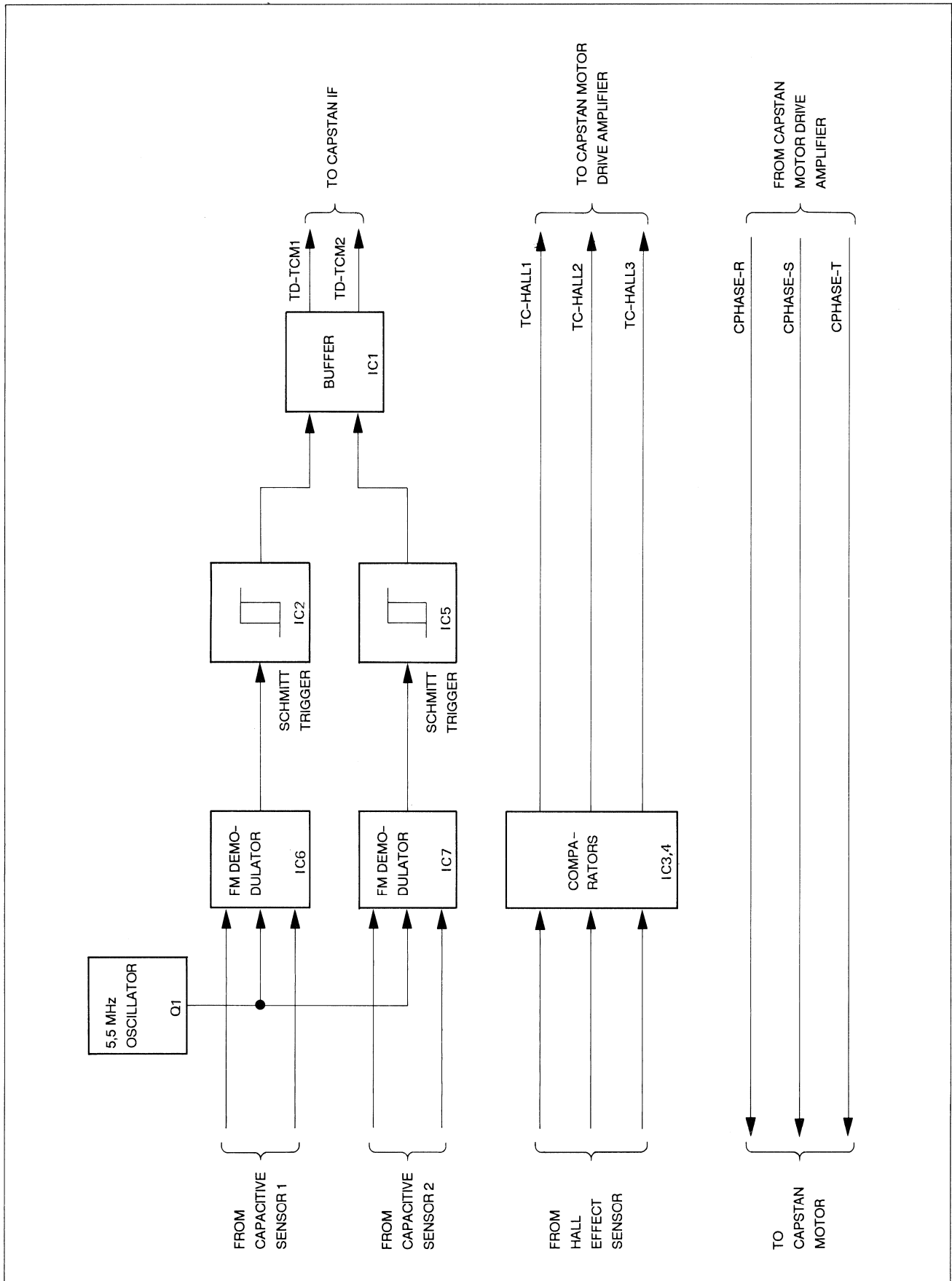
FROM DISTRIBUTION BOARD 1.863.744 (J4)

STUDER REGENSDORF ZÜRICH  
 CAPSTAN MOTOR DRIVE AMPL. ESE  
 1.820.774.27

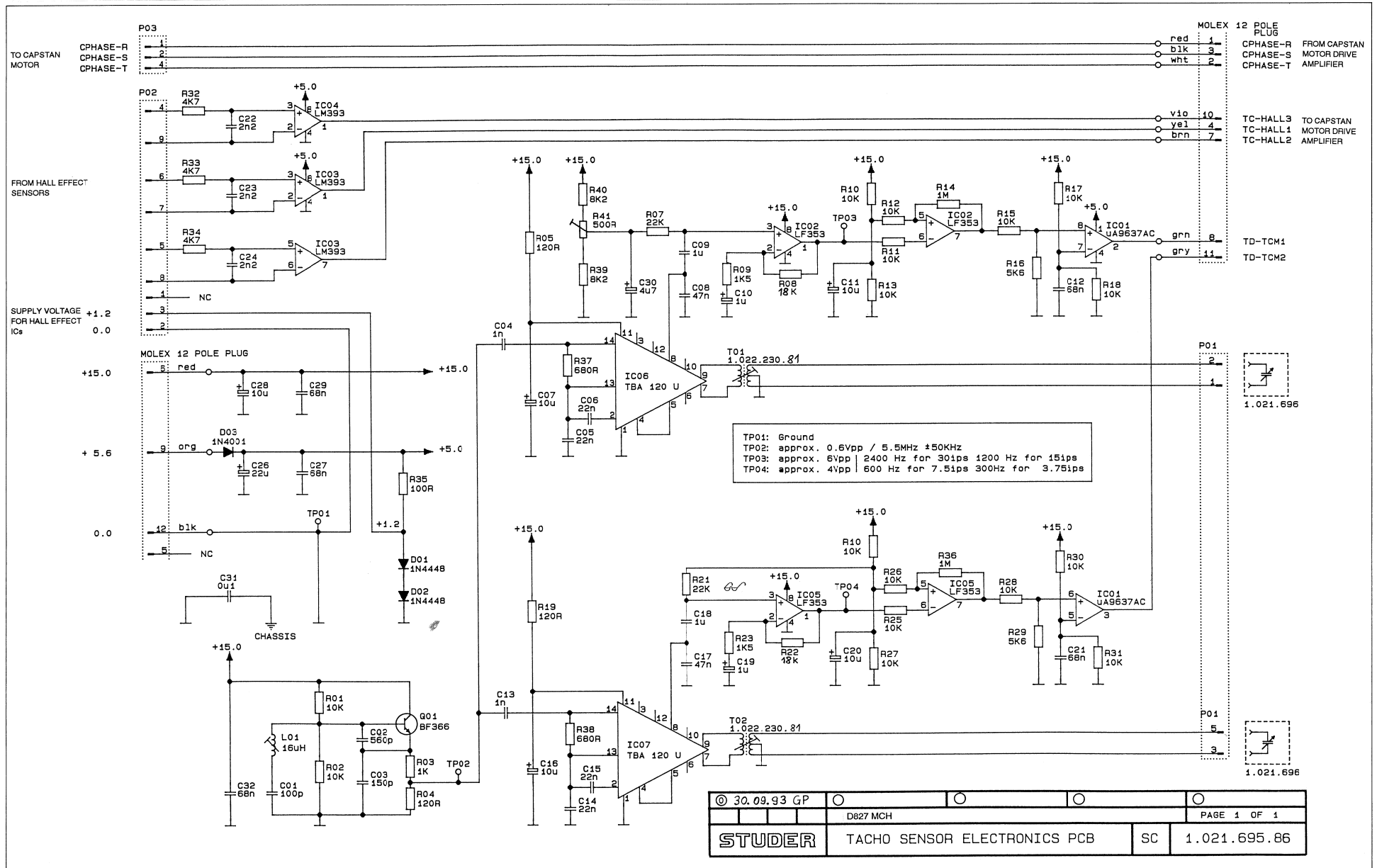
| Ad.     | POS.         | REF.No.   | DESCRIPTION                    | MANUFACTURER          | Ad.     | POS.         | REF.No.   | DESCRIPTION              | MANUFACTURER |
|---------|--------------|-----------|--------------------------------|-----------------------|---------|--------------|-----------|--------------------------|--------------|
| C....1  | 59.22.8220   | 22 uF     | -20%, 63V, EL                  |                       | R....23 | 57.11.3223   | 22 kOhm   | 10%                      |              |
| C....2  | 59.06.0103   | 10 nF     | 10%, 63V, PETP                 |                       | R....24 | 57.11.3103   | 10 kOhm   | 10%                      |              |
| C....3  | 59.25.6471   | 470 uF    | -20%, 63V, EL                  |                       | R....25 | 57.11.3103   | 10 kOhm   | 10%                      |              |
| C....4  | 59.02.0685   | 6.8 uF    | 5%, 63V, MPC                   |                       | R....26 | 57.11.3103   | 10 kOhm   | 10%                      |              |
| C....5  | 59.06.0332   | 3.3 nF    | 10%, 63V, PETP                 |                       | R....27 | 00.00.0000   | not used  |                          |              |
| C....6  | 59.06.0332   | 3.3 nF    | 10%, 63V, PETP                 |                       | R....28 | 57.11.3272   | 2.7 kOhm  | 1%                       |              |
| C....7  | 59.06.0334   | 330 nF    | 10%, 63V, PETP                 |                       | R....29 | 57.11.3101   | 100 Ohm   | 10%                      |              |
| C....8  | 59.06.0334   | 330 nF    | 10%, 63V, PETP                 |                       | R....30 | 57.11.3752   | 7.5 kOhm  | 1%                       |              |
| C....9  | 59.06.0104   | 100 nF    | 10%, 63V, PETP                 |                       | R....31 | 57.11.3152   | 1.5 kOhm  | 10%                      |              |
| C....10 | 59.06.0104   | 100 nF    | 10%, 63V, PETP                 |                       | R....32 | 57.11.3223   | 22 kOhm   | 10%                      |              |
| C....11 | 59.06.0104   | 100 nF    | 10%, 63V, PETP                 |                       | R....33 | 00.00.0000   | not used  |                          |              |
| C....12 | 59.06.0104   | 100 nF    | 10%, 63V, PETP                 |                       | R....34 | 57.11.3133   | 13 kOhm   | 1%                       |              |
| C....13 | 59.06.0103   | 10 nF     | 10%, 63V, PETP                 |                       | R....35 | 57.11.3681   | 680 Ohm   | 10%                      |              |
| C....14 | 59.05.1101   | 100 uF    | 1%, 63V, PP                    |                       | R....36 | 57.11.3362   | 3.6 kOhm  | 1%                       |              |
| C....15 | 59.06.0104   | 100 nF    | 10%, 63V, PETP                 |                       | R....37 | 57.11.3102   | 1 kOhm    | 10%                      |              |
| C....16 | 59.06.0104   | 100 nF    | 10%, 63V, PETP                 |                       | R....38 | 57.11.3103   | 10 kOhm   | 10%                      |              |
| C....17 | 59.22.5101   | 100 uF    | -20%, 25V, EL                  |                       | R....39 | 57.11.3470   | 47 Ohm    | 10%                      |              |
| C....18 | 59.22.5101   | 100 uF    | -20%, 25V, EL                  |                       | R....40 | 57.11.3470   | 47 Ohm    | 10%                      |              |
| C....19 | 59.22.5101   | 100 uF    | -20%, 25V, EL                  |                       | R....41 | 57.11.3102   | 1 kOhm    | 10%                      |              |
| C....20 | 59.22.5101   | 100 uF    | -20%, 25V, EL                  |                       | R....42 | 57.11.3221   | 220 Ohm   | 10%                      |              |
| C....21 | 59.06.0334   | 330 nF    | 10%, 63V, PETP                 |                       | R....43 | 57.11.3102   | 1 kOhm    | 10%                      |              |
| C....22 | 59.06.0104   | 100 nF    | 10%, 63V, PETP                 |                       | R....44 | 57.11.3332   | 3.3 kOhm  | 10%                      |              |
| C....23 | 59.06.0104   | 100 nF    | 10%, 63V, PETP                 |                       | R....45 | 57.11.3470   | 47 Ohm    | 10%                      |              |
| C....24 | 00.00.0000   | not used  |                                |                       | R....46 | 57.11.3102   | 1 kOhm    | 10%                      |              |
| C....25 | 59.06.0223   | 22 Ohm    | 10%, 63V, PETP                 |                       | R....47 | 57.11.3332   | 3.3 kOhm  | 10%                      |              |
| C....26 | 59.22.5101   | 100 uF    | -20%, 25V, EL                  |                       | R....48 | 57.11.3221   | 220 Ohm   | 10%                      |              |
| C....27 | 59.22.5101   | 100 uF    | -20%, 25V, EL                  |                       | R....49 | 57.11.3102   | 1 kOhm    | 10%                      |              |
| C....28 | 59.06.0104   | 100 nF    | 10%, 63V, PETP                 |                       | R....50 | 57.11.3470   | 47 Ohm    | 10%                      |              |
| E....1  | 50.04.0521   | MUR 410   |                                | Mot, GI               | R....51 | 57.11.3332   | 3.3 kOhm  | 10%                      |              |
| E....2  | 50.04.1216   | Z 10 V    | 5%, 1.3M                       | ITT, Mot, Ph, Tf, SGS | R....52 | 57.11.3102   | 1 kOhm    | 10%                      |              |
| E....3  | 50.04.1216   | Z 10 V    | 5%, 1.3M                       | ITT, Mot, Ph, Tf, SGS | R....53 | 57.11.3221   | 220 Ohm   | 10%                      |              |
| E....4  | 50.04.0521   | MUR 410   |                                | Mot, GI               | R....54 | 57.11.3102   | 1 kOhm    | 10%                      |              |
| E....5  | 50.04.1216   | Z 10 V    | 5%, 1.3M                       | ITT, Mot, Ph, Tf, SGS | R....55 | 57.11.3222   | 2.2 kOhm  | 10%                      |              |
| E....6  | 50.04.1216   | Z 10 V    | 5%, 1.3M                       | ITT, Mot, Ph, Tf, SGS | R....56 | 57.11.3222   | 2.2 kOhm  | 10%                      |              |
| E....7  | 50.04.1118   | Z 6.2 V   | 5%, .40M                       | ITT, Mot, Ph, Tf, SGS | R....57 | 57.11.3222   | 2.2 kOhm  | 10%                      |              |
| E....8  | 50.04.0532   | IM 5818   |                                | Mot                   | R....58 | 57.11.3222   | 2.2 kOhm  | 10%                      |              |
| E....9  | 50.04.1106   | Z 2.7 V   | 5%, .40M                       | ITT, Mot, Ph, Tf, SGS | R....59 | 57.11.3222   | 2.2 kOhm  | 10%                      |              |
| E....10 | 50.04.1106   | Z 2.7 V   | 5%, .40M                       | ITT, Mot, Ph, Tf, SGS | R....60 | 57.11.3222   | 2.2 kOhm  | 10%                      |              |
| E....11 | 50.04.1106   | Z 2.7 V   | 5%, .40M                       | ITT, Mot, Ph, Tf, SGS | RZ....1 | 57.88.4332   | Network   | 8 * 3.3 kOhm, 2%, SIP 9  |              |
| IC....1 | 50.09.0101   | TL 072 CP |                                | Mot, Ti, NS           | T....1  | 1.022.247.00 |           | Drive Transformer        | St           |
| IC....2 | 50.09.0101   | TL 072 CP |                                | Mot, Ti, NS           | TP....1 | 54.02.0320   | Connector | 1 contact, 2.8*0.8, flat |              |
| IC....3 | 50.05.0283   | LM 393 .. | T08 0193 DP                    | NS, Sig, Ti, Tho      | TP....2 | 54.02.0320   | Connector | 1 contact, 2.8*0.8, flat |              |
| IC....4 | 50.09.0101   | TL 072 CP |                                | Mot, Ti, NS           | TP....3 | 54.02.0320   | Connector | 1 contact, 2.8*0.8, flat |              |
| IC....5 | 50.10.0106   | TL 431CP  |                                | Mot, Ti               | TP....4 | 54.02.0320   | Connector | 1 contact, 2.8*0.8, flat |              |
| IC....6 | 1.820.997.20 |           | Communication logic device     | St                    | TP....5 | 54.02.0320   | Connector | 1 contact, 2.8*0.8, flat |              |
| L....1  | 62.03.0010   | 48 uH     | 2 A, filter                    |                       | W....1  | 1.010.321.64 |           | Wire bridge              |              |
| L....2  | 1.022.251.00 | 203 uH    | Filtercoil                     | St                    |         |              |           |                          |              |
| L....3  | 62.99.0113   | 1.0 uH    |                                |                       |         |              |           |                          |              |
| L....4  | 62.99.0113   | 1.0 uH    |                                |                       |         |              |           |                          |              |
| L....5  | 62.02.3222   | 2.2 mH    | 10%, Rad, RM 5                 |                       |         |              |           |                          |              |
| L....6  | 62.02.3222   | 2.2 mH    | 10%, Rad, RM 5                 |                       |         |              |           |                          |              |
| P....1  | 54.02.0418   | Connector | 6 contacts, MOLEX, see note 2  |                       |         |              |           |                          |              |
| P....2  | 54.14.2102   | Connector | 16 contacts, latch, flat cable |                       |         |              |           |                          |              |
| P....3  | 54.02.0408   | Connector | 12 contacts, MOLEX, see note 1 |                       |         |              |           |                          |              |
| R....1  | 50.03.1502   | IRF 522   | MTP 8810                       | IR, Mot               |         |              |           |                          |              |
| R....2  | 50.03.1502   | IRF 522   | MTP 8810                       | IR, Mot               |         |              |           |                          |              |
| R....3  | 50.03.0350   | J-112     |                                | Mot                   |         |              |           |                          |              |
| R....4  | 50.03.0340   | BC 337-25 |                                | ITT, Ph, Sie          |         |              |           |                          |              |
| R....5  | 50.03.0351   | BC 327-25 |                                | ITT, Ph, Sie          |         |              |           |                          |              |
| R....6  | 50.03.1505   | VN 0508 M | ZVN 0108 A                     | Fe, Six               |         |              |           |                          |              |
| R....7  | 50.03.0351   | BC 327-25 |                                | ITT, Ph, Sie          |         |              |           |                          |              |
| R....8  | 50.03.0340   | BC 337-25 |                                | ITT, Ph, Sie          |         |              |           |                          |              |
| R....9  | 50.03.0351   | BC 327-25 |                                | ITT, Ph, Sie          |         |              |           |                          |              |
| R....10 | 50.03.0340   | BC 337-25 |                                | ITT, Ph, Sie          |         |              |           |                          |              |
| R....11 | 50.03.0351   | BC 327-25 |                                | ITT, Ph, Sie          |         |              |           |                          |              |
| R....12 | 50.03.0340   | BC 337-25 |                                | ITT, Ph, Sie          |         |              |           |                          |              |
| R....13 | 50.03.0749   | BD 679    | see note 3                     | Ph                    |         |              |           |                          |              |
| R....14 | 50.03.0749   | BD 680    | see note 3                     | Ph                    |         |              |           |                          |              |
| R....15 | 50.03.0749   | BD 679    | see note 3                     | Ph                    |         |              |           |                          |              |
| R....16 | 50.03.0749   | BD 680    | see note 3                     | Ph                    |         |              |           |                          |              |
| R....17 | 50.03.0749   | BD 679    | see note 3                     | Ph                    |         |              |           |                          |              |
| R....18 | 50.03.0749   | BD 680    | see note 3                     | Ph                    |         |              |           |                          |              |
| R....19 | 57.56.5228   | 0.22 Ohm  | 10%, 4 W, W                    |                       |         |              |           |                          |              |
| R....20 | 57.11.3100   | 10 Ohm    | 10%                            |                       |         |              |           |                          |              |
| R....21 | 57.11.3332   | 3.3 kOhm  | 10%                            |                       |         |              |           |                          |              |
| R....22 | 57.11.3100   | 10 Ohm    | 10%                            |                       |         |              |           |                          |              |
| R....23 | 57.11.3332   | 3.3 kOhm  | 10%                            |                       |         |              |           |                          |              |
| R....24 | 57.11.3100   | 10 Ohm    | 10%                            |                       |         |              |           |                          |              |
| R....25 | 57.11.3332   | 3.3 kOhm  | 10%                            |                       |         |              |           |                          |              |
| R....26 | 57.11.3100   | 10 Ohm    | 10%                            |                       |         |              |           |                          |              |
| R....27 | 57.11.3123   | 12 kOhm   | 1%                             |                       |         |              |           |                          |              |
| R....28 | 57.11.3100   | 10 Ohm    | 10%                            |                       |         |              |           |                          |              |
| R....29 | 57.11.3123   | 12 kOhm   | 1%                             |                       |         |              |           |                          |              |
| R....30 | 57.11.3302   | 3 kOhm    | 1%                             |                       |         |              |           |                          |              |
| R....31 | 57.11.3302   | 3 kOhm    | 1%                             |                       |         |              |           |                          |              |
| R....32 | 57.11.3103   | 10 kOhm   | 10%                            |                       |         |              |           |                          |              |
| R....33 | 57.11.3103   | 10 kOhm   | 10%                            |                       |         |              |           |                          |              |
| R....34 | 57.11.3103   | 10 kOhm   | 10%                            |                       |         |              |           |                          |              |
| R....35 | 57.11.3103   | 10 kOhm   | 10%                            |                       |         |              |           |                          |              |
| R....36 | 57.11.3103   | 10 kOhm   | 10%                            |                       |         |              |           |                          |              |
| R....37 | 57.11.3103   | 10 kOhm   | 10%                            |                       |         |              |           |                          |              |
| R....38 | 57.11.3472   | 4.7 kOhm  | 10%                            |                       |         |              |           |                          |              |
| R....39 | 57.11.5155   | 1.5 kOhm  | 10%                            |                       |         |              |           |                          |              |
| R....40 | 57.11.3104   | 100 kOhm  | 10%                            |                       |         |              |           |                          |              |
| R....41 | 57.11.3221   | 220 Ohm   | 10%                            |                       |         |              |           |                          |              |
| R....42 | 57.11.3101   | 100 Ohm   | 10%                            |                       |         |              |           |                          |              |

**BLOCK DIAGRAM**

Tacho Sensor Electronics PCB 1.021.695

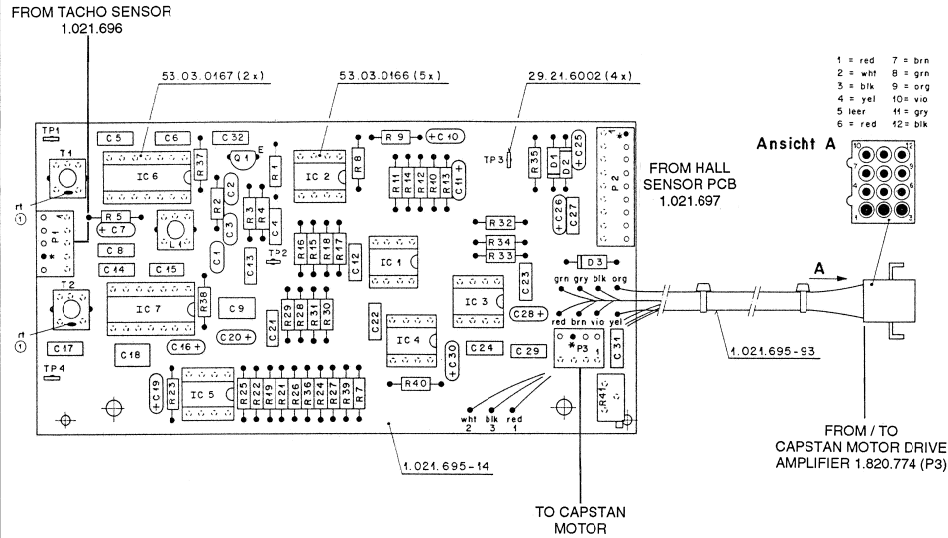


CAPSTAN MOTOR ASSEMBLY 1.021.624.00  
 -Tacho Sensor Electronics PCB 1.021.695.86





CAPSTAN MOTOR ASSEMBLY 1.021.624.00  
-Tacho Sensor Electronics PCB 1.021.695.86



| Idx. Pos. | Part No.     | Qty.     | Type/Val. | Description               |
|-----------|--------------|----------|-----------|---------------------------|
| 0 C 1     | 59.34.4101   | 100d     |           | CER 63V, 5%, N750         |
| 0 C 2     | 59.34.5561   | 560d     |           | CER 63V, 5%, N1500        |
| 0 C 3     | 59.34.4151   | 150d     |           | CER 63V, 5%, N750         |
| 0 C 4     | 59.06.0102   | 1n0      |           | PETP, 63V, 10%, RM5       |
| 0 C 5     | 59.06.0223   | 22n      |           | PETP, 63V, 10%, RM5       |
| 0 C 6     | 59.06.0223   | 22n      |           | PETP, 63V, 10%, RM5       |
| 0 C 7     | 59.26.2100   | 10u      |           | SAL, 20%, 16V             |
| 0 C 8     | 59.06.0473   | 47n      |           | PETP, 63V, 10%, RM5       |
| 0 C 9     | 59.06.0105   | 1u0      |           | PETP, 50V, 10%, RMS       |
| 0 C 10    | 59.26.9109   | 1u       |           | SAL, 20%, 40V             |
| 0 C 11    | 59.26.2100   | 10u      |           | SAL, 20%, 16V             |
| 0 C 12    | 59.06.0683   | 68n      |           | PETP, 63V, 10%, RM5       |
| 0 C 13    | 59.06.0102   | 1n0      |           | PETP, 63V, 10%, RM5       |
| 0 C 14    | 59.06.0223   | 22n      |           | PETP, 63V, 10%, RM5       |
| 0 C 15    | 59.06.0223   | 22n      |           | PETP, 63V, 10%, RM5       |
| 0 C 16    | 59.26.2100   | 10u      |           | SAL, 20%, 16V             |
| 0 C 17    | 59.06.0473   | 47n      |           | PETP, 63V, 10%, RM5       |
| 0 C 18    | 59.06.0105   | 1u0      |           | PETP, 50V, 10%, RMS       |
| 0 C 19    | 59.26.9109   | 1u       |           | SAL, 20%, 40V             |
| 0 C 20    | 59.26.2100   | 10u      |           | SAL, 20%, 16V             |
| 0 C 21    | 59.06.0683   | 68n      |           | PETP, 63V, 10%, RM5       |
| 0 C 22    | 59.06.0222   | 2n2      |           | PETP, 63V, 10%, RM5       |
| 0 C 23    | 59.06.0222   | 2n2      |           | PETP, 63V, 10%, RM5       |
| 0 C 24    | 59.06.0222   | 2n2      |           | PETP, 63V, 10%, RM5       |
| 0 C 25    | 59.26.1220   | 22u      |           | SAL, 20%, 10V             |
| 0 C 26    | 59.26.1220   | 22u      |           | SAL, 20%, 10V             |
| 0 C 27    | 59.06.0683   | 68n      |           | PETP, 63V, 10%, RM5       |
| 0 C 28    | 59.26.2100   | 10u      |           | SAL, 20%, 16V             |
| 0 C 29    | 59.06.0683   | 68n      |           | PETP, 63V, 10%, RM5       |
| 0 C 30    | 59.26.1479   | 4u7      |           | SAL, 20%, 10V             |
| 0 C 31    | 59.06.0104   | 100n     |           | PETP, 63V, 10%, RM5       |
| 0 C 32    | 59.06.0683   | 68n      |           | PETP, 63V, 10%, RM5       |
| 0 D 1     | 50.04.0125   | 1N4448   |           | 75V, 150mA, 4ns, DO-35    |
| 0 D 2     | 50.04.0125   | 1N4448   |           | 75V, 150mA, 4ns, DO-35    |
| 0 D 3     | 50.04.0122   | 1N4001   |           | 1A, DO 41                 |
| 0 IC 1    | 50.15.0114   | 9637     |           | Dual diff Line Receiver   |
| 0 IC 2    | 50.09.0101   | TL072    |           | IC TL 072 CN              |
| 0 IC 3    | 50.05.0283   | LM393    |           | Dual Comparator           |
| 0 IC 4    | 50.05.0283   | LM393    |           | Dual Comparator           |
| 0 IC 5    | 50.09.0101   | TL072    |           | IC TL 072 CN              |
| 0 IC 6    | 50.11.0151   | TBA120U  |           | IC TBA 120 UV/5           |
| 0 IC 7    | 50.11.0151   | TBA120U  |           | IC TBA 120 UV/5           |
| 0 L 1     | 1.022.222.00 | L16mH    |           | HF-DROSSEL 16 MH          |
| 0 P 1     | 54.01.0298   | 5-P      |           | J LEISTE 5 POL C15 AUFST. |
| 0 P 2     | 54.01.0217   | 9-P      |           | J LEISTE 9 POL C15 AUFST. |
| 0 P 3     | 54.01.0241   | 4-P      |           | J LEISTE 4 POL C15 AUFST. |
| 0 Q 1     | 50.03.0514   | BF366    |           | BF 366 NPN                |
| 0 R 1     | 57.11.3103   | 10k      |           | MF, 1%, 0207              |
| 0 R 2     | 57.11.3103   | 10k      |           | MF, 1%, 0207              |
| 0 R 3     | 57.11.3102   | 1k0      |           | MF, 1%, 0207              |
| 0 R 4     | 57.11.3121   | 120R     |           | MF, 1%, 0207              |
| 0 R 5     | 57.11.3121   | 120R     |           | MF, 1%, 0207              |
| 0 R 6     | not used     | not used |           | not used                  |
| 0 R 7     | 57.11.3223   | 22k      |           | MF, 1%, 0207              |
| 0 R 8     | 57.11.3183   | 18k      |           | MF, 1%, 0207              |
| 0 R 9     | 57.11.3152   | 1k5      |           | MF, 1%, 0207              |
| 0 R 10    | 57.11.3103   | 10k      |           | MF, 1%, 0207              |
| 0 R 11    | 57.11.3103   | 10k      |           | MF, 1%, 0207              |
| 0 R 12    | 57.11.3103   | 10k      |           | MF, 1%, 0207              |
| 0 R 13    | 57.11.3103   | 10k      |           | MF, 1%, 0207              |
| 0 R 14    | 57.11.3105   | 1M0      |           | MF, 1%, 0207              |
| 0 R 15    | 57.11.3103   | 10k      |           | MF, 1%, 0207              |
| 0 R 16    | 57.11.3562   | 5k6      |           | MF, 1%, 0207              |
| 0 R 17    | 57.11.3103   | 10k      |           | MF, 1%, 0207              |
| 0 R 18    | 57.11.3103   | 10k      |           | MF, 1%, 0207              |
| 0 R 19    | 57.11.3121   | 120R     |           | MF, 1%, 0207              |
| 0 R 20    | not used     | not used |           | not used                  |
| 0 R 21    | 57.11.3223   | 22k      |           | MF, 1%, 0207              |
| 0 R 22    | 57.11.3183   | 18k      |           | MF, 1%, 0207              |
| 0 R 23    | 57.11.3152   | 1k5      |           | MF, 1%, 0207              |
| 0 R 24    | 57.11.3103   | 10k      |           | MF, 1%, 0207              |
| 0 R 25    | 57.11.3103   | 10k      |           | MF, 1%, 0207              |
| 0 R 26    | 57.11.3103   | 10k      |           | MF, 1%, 0207              |
| 0 R 27    | 57.11.3103   | 10k      |           | MF, 1%, 0207              |
| 0 R 28    | 57.11.3103   | 10k      |           | MF, 1%, 0207              |
| 0 R 29    | 57.11.3562   | 5k6      |           | MF, 1%, 0207              |
| 0 R 30    | 57.11.3103   | 10k      |           | MF, 1%, 0207              |

| Idx. Pos. | Part No.     | Qty. | Type/Val. | Description              |
|-----------|--------------|------|-----------|--------------------------|
| 0 R 31    | 57.11.3103   | 10k  |           | MF, 1%, 0207             |
| 0 R 32    | 57.11.3472   | 4k7  |           | MF, 1%, 0207             |
| 0 R 33    | 57.11.3472   | 4k7  |           | MF, 1%, 0207             |
| 0 R 34    | 57.11.3472   | 4k7  |           | MF, 1%, 0207             |
| 0 R 35    | 57.11.3101   | 100R |           | MF, 1%, 0207             |
| 0 R 36    | 57.11.3105   | 1M0  |           | MF, 1%, 0207             |
| 0 R 37    | 57.11.3681   | 680R |           | MF, 1%, 0207             |
| 0 R 38    | 57.11.3681   | 680R |           | MF, 1%, 0207             |
| 0 R 39    | 57.11.3822   | 8k2  |           | MF, 1%, 0207             |
| 0 R 40    | 57.11.3822   | 8k2  |           | MF, 1%, 0207             |
| 0 R 41    | 58.05.0501   | 500R |           | 10%, 0.5W, Cermet        |
| 1 T 1     | 1.022.230.82 |      |           | Trafo DISKRIMINATORTRAFO |
| 1 T 2     | 1.022.230.82 |      |           | Trafo DISKRIMINATORTRAFO |
| 0 TP 1    | 29.21.6002   | 1-P  |           | LOETOESE                 |
| 0 TP 2    | 29.21.6002   | 1-P  |           | LOETOESE                 |
| 0 TP 3    | 29.21.6002   | 1-P  |           | LOETOESE                 |
| 0 TP 4    | 29.21.6002   | 1-P  |           | LOETOESE                 |

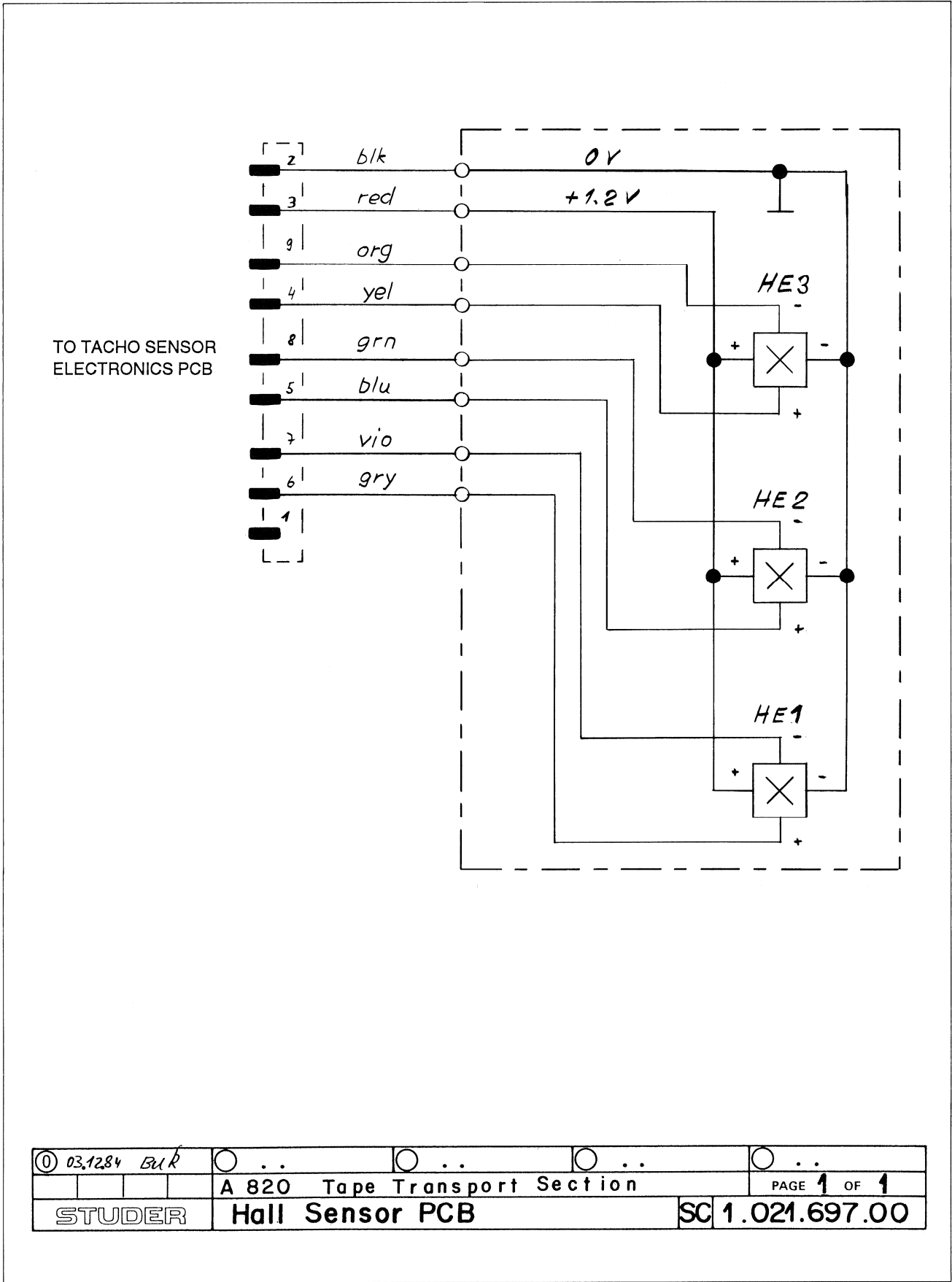
End of List

Comments:

- \* Note 1: Pot. Bourns, Nr.: 3296 Z-1-501
- \* Spectrol, Nr.: 64 Z 501 T 000
- \* Murata, Nr.: Pot 3105 Z-1-501
- \* Note 2: Plug. 5-Pin AMP. Nr.: -163.680-3
- \* Note 3: Plug. 9-Pin AMP. Nr.: -163.680-7
- \* Note 4: Plug. 3-Pin AMP. Nr.: -163.680-1
- \* CE=Ceramic, EL=Electrolytic, PETP=Polyester Film
- \* MANUFACTURER: Fc=Fairchild, Gl=General Instruments, ITT=Intermetall, Mot=Motorola, NS=National Semiconductors, Ph=Philips, Sie=Siemens, St=Studer, Tl=Texas Instruments
- (o1) T1+T2 -81 changed to -82

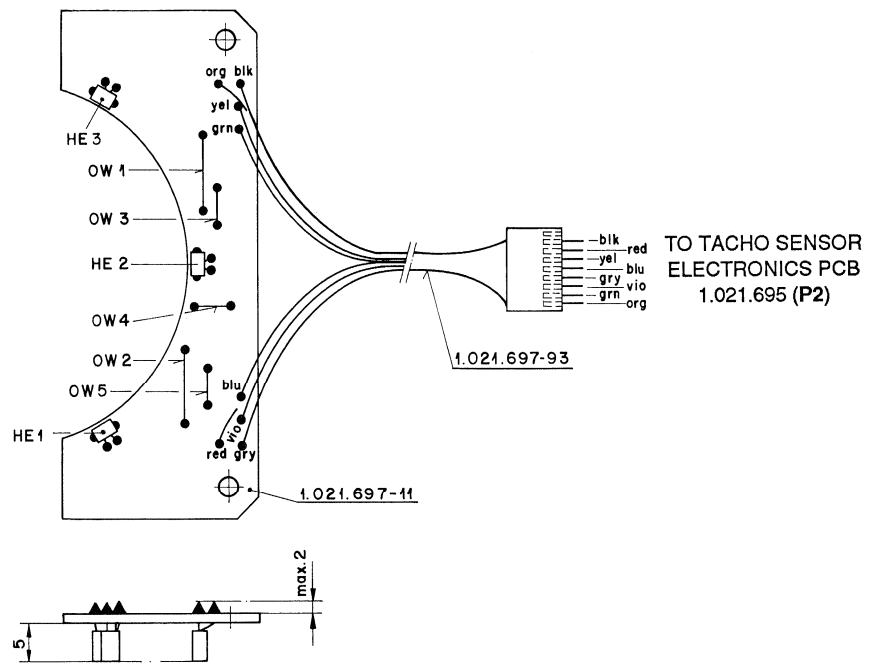
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|------------|----------------------|------|------|-------|
| Autoren:   |                      |      |      |       |
| 10.796     |                      |      |      |       |
| 30.9.93    |                      |      |      |       |
| Datum:     | Gez.                 | Gez. | Gez. | Index |
| Kopie für: |                      |      |      |       |
| Studer     | TACHO SENSOR         |      |      |       |
| REGENSDORF | EL. BOARD ESE        |      |      |       |
| ZÜRICH     | Nommer: 1.021.695-86 |      |      |       |

**CAPSTAN MOTOR ASSEMBLY 1.021.624.00**  
 -Hall Sensor PCB 1.021.697.00



|                              |                 |    |    |                 |
|------------------------------|-----------------|----|----|-----------------|
| 03.12.84 BUR                 | ..              | .. | .. | ..              |
| A 820 Tape Transport Section |                 |    |    | PAGE 1 OF 1     |
| STUDER                       | Hall Sensor PCB |    |    | SC 1.021.697.00 |

HALL SENSOR PCB 1.021.697.00

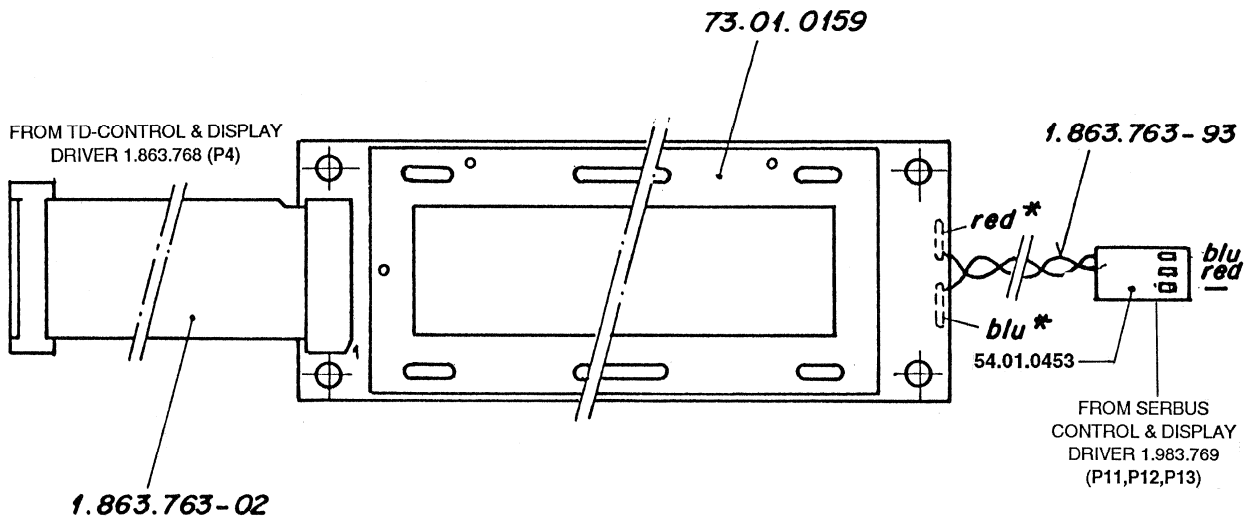


| Ad                         | ..POS.. | ...REF.No... | DESCRIPTION.....  | MANUFACTURER  |
|----------------------------|---------|--------------|-------------------|---------------|
| 01                         | HE...1  | 1.010.050.50 | IC 50.99.0170     | GEBOGEN       |
| 01                         | HE...2  | 1.010.050.50 | IC 50.99.0170     | GEBOGEN       |
| 01                         | HE...3  | 1.010.050.50 | IC 50.99.0170     | GEBOGEN       |
|                            | OW...1  | 1.010.324.64 | 10.2 mm           | Wire bridge   |
|                            | OW...2  | 1.010.324.64 | 10.2 mm           | Wire bridge   |
|                            | OW...3  | 1.010.321.64 | 5.0 mm            | Wire bridge   |
|                            | OW...4  | 1.010.321.64 | 5.0 mm            | Wire bridge   |
|                            | OW...5  | 1.010.321.64 | 5.0 mm            | Wire bridge   |
| (01) 09.03.87 SERIE ADJUST |         |              |                   |               |
|                            |         | 1.021.697.00 | HALL SENSOR BOARD | CHS87/03/0901 |





LCD DISPLAY ILLUMINATED 1.863.763.81



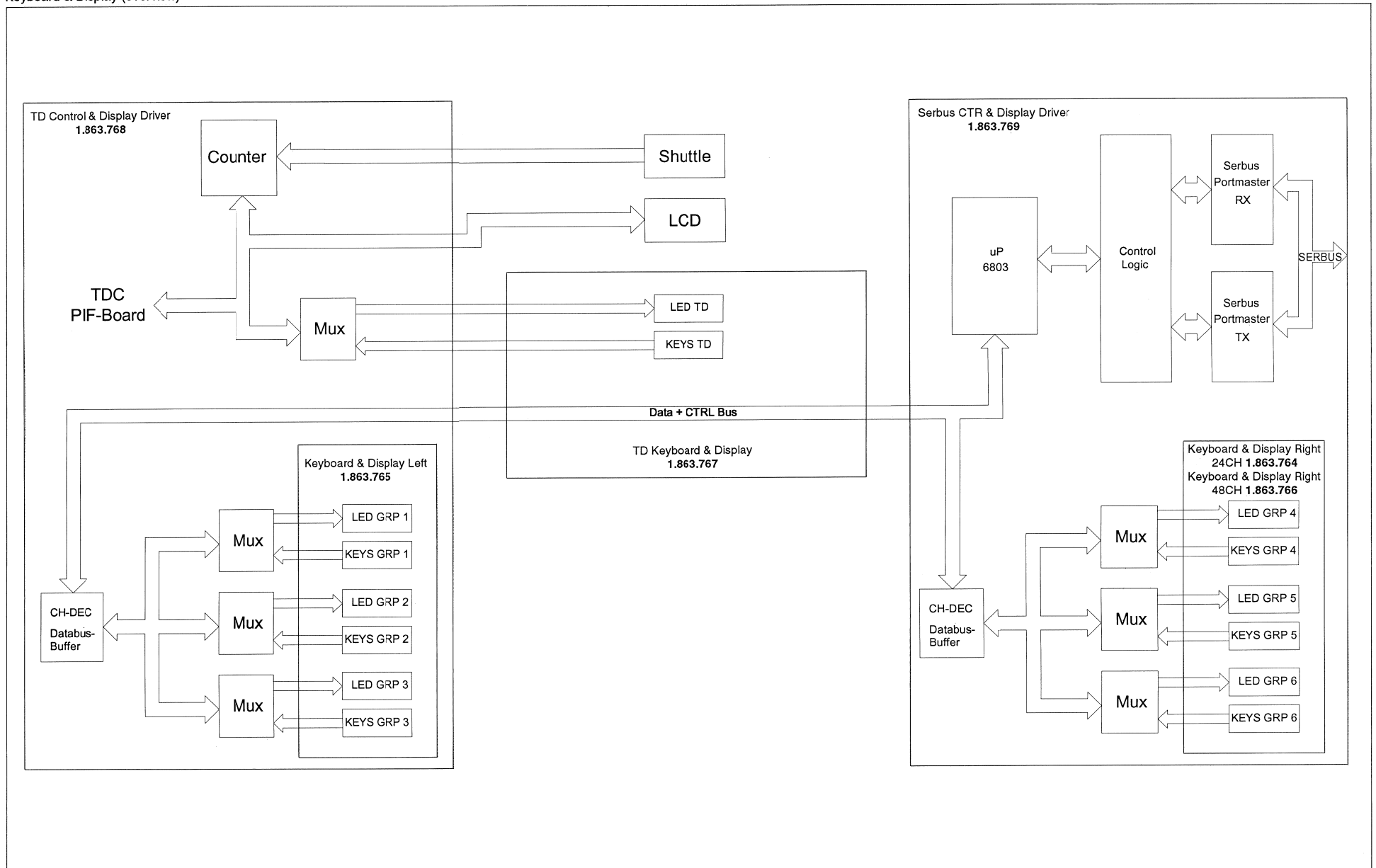
\* Solderd on the rear side

|          |         |     |    |    |   |
|----------|---------|-----|----|----|---|
| Ausgabe  |         |     |    |    | ③ |
| Änderung |         |     |    |    | ② |
|          |         |     |    |    | ① |
| Datum    | 21.4.95 | dlu | AG | AG | ① |
| Gez.     |         |     |    |    |   |
| Gepr.    |         |     |    |    |   |
| Ges.     |         |     |    |    |   |
| Index    |         |     |    |    |   |

Kopie für:

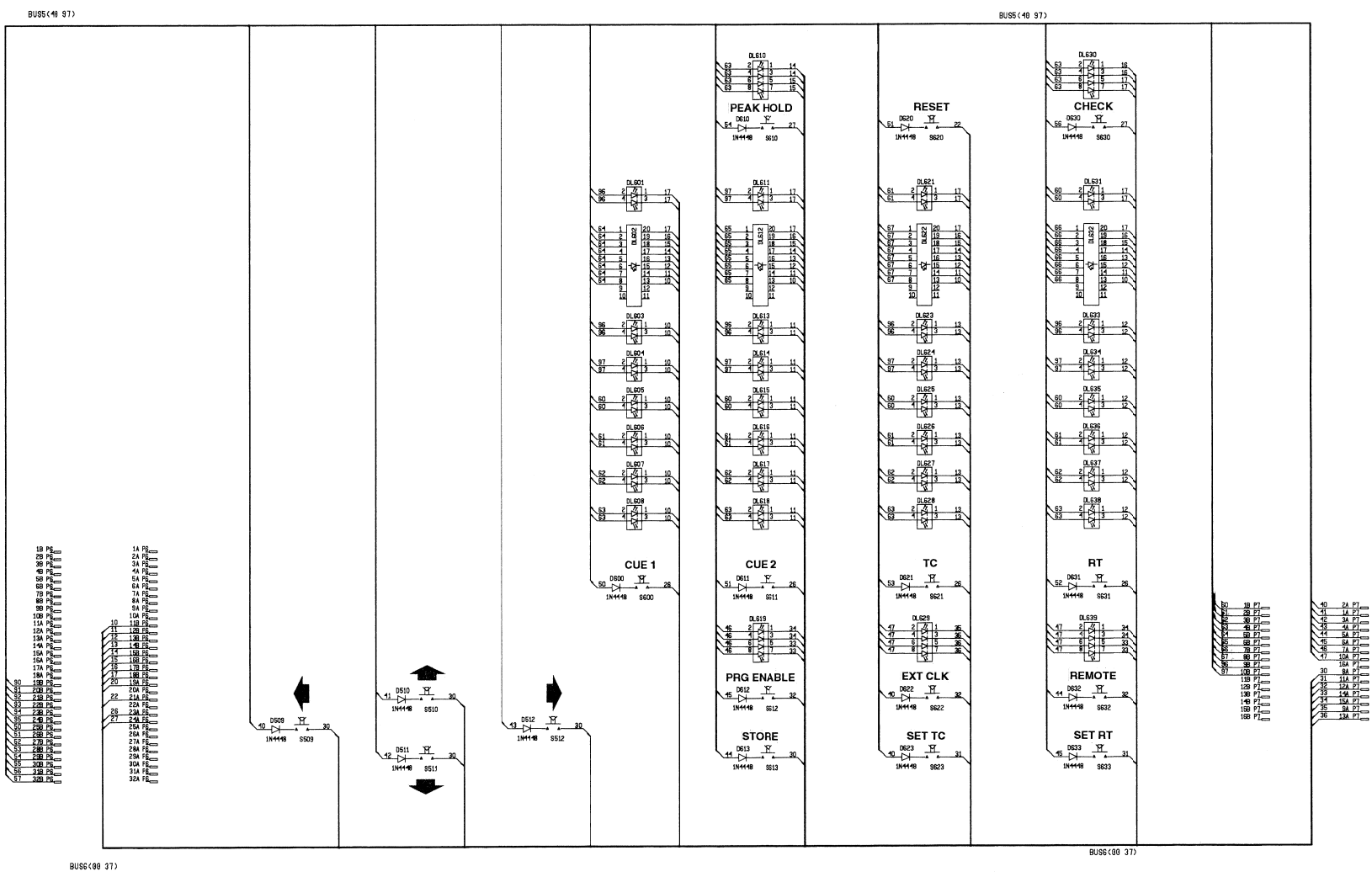
|                                |   |                      |
|--------------------------------|---|----------------------|
| STUDER<br>REGENSDORF<br>ZÜRICH | Benennung:<br><i>Illuminated Display</i><br>ESE | Nummer: 1.863.763-81 |
|                                |   |                      |

**BLOCK DIAGRAM**  
Keyboard & Display (overview)

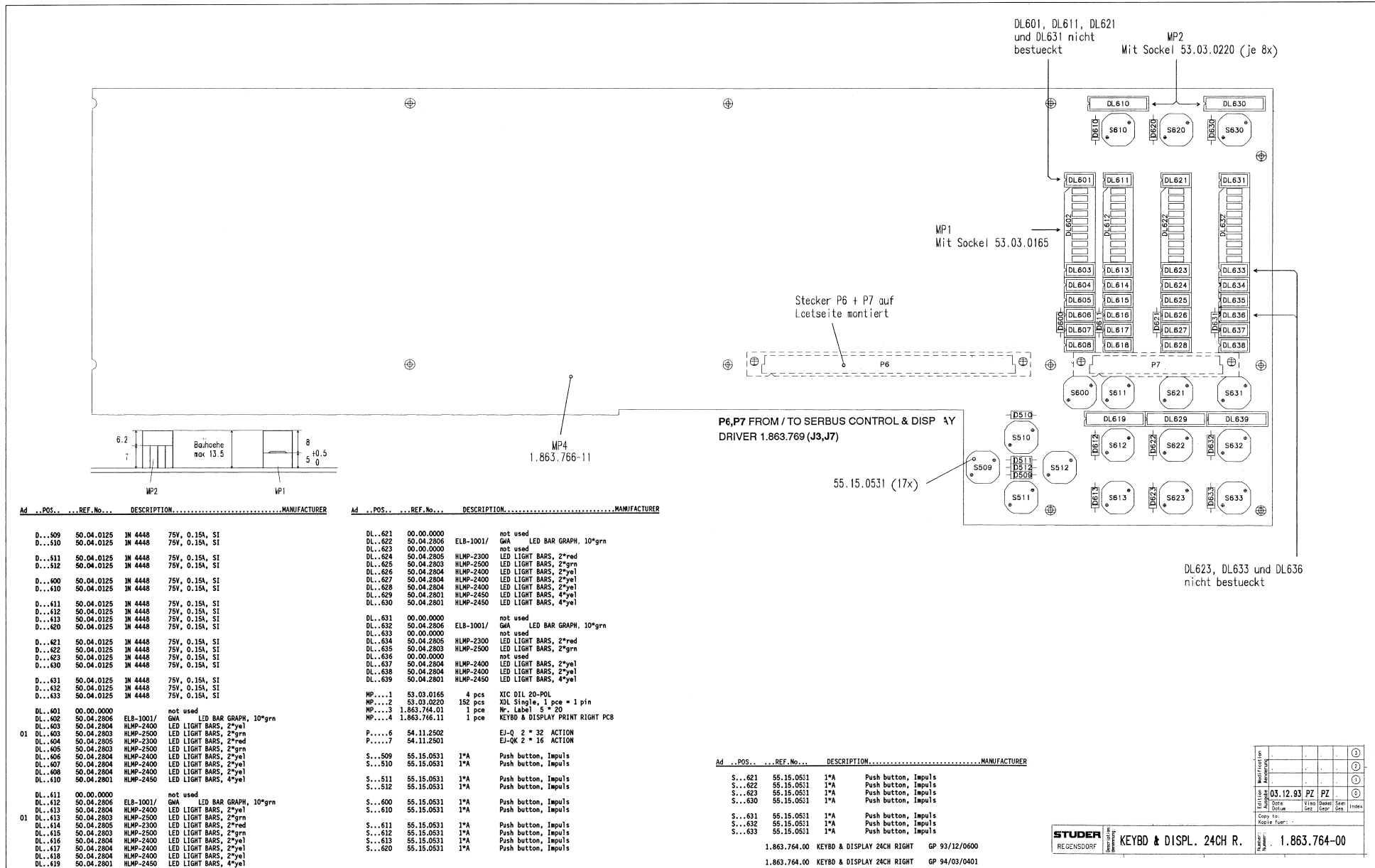




KEYBOARD & DISPLAY PCB RIGHT 24CH 1.863.764.00



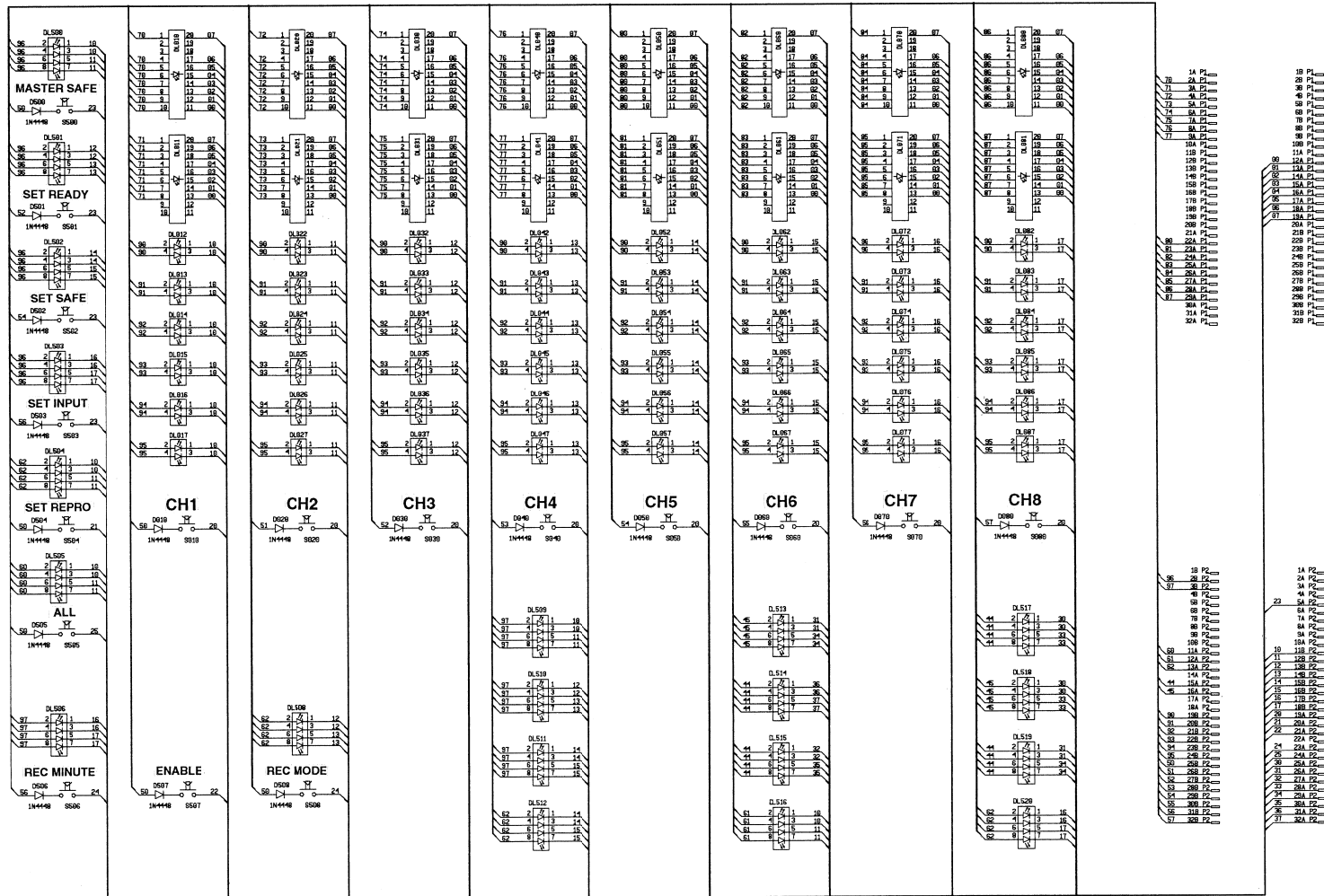
KEYBOARD & DISPLAY PCB RIGHT 24CH 1.863.764.00





KEYBOARD & DISPLAY PCB LEFT 1.863.765.00

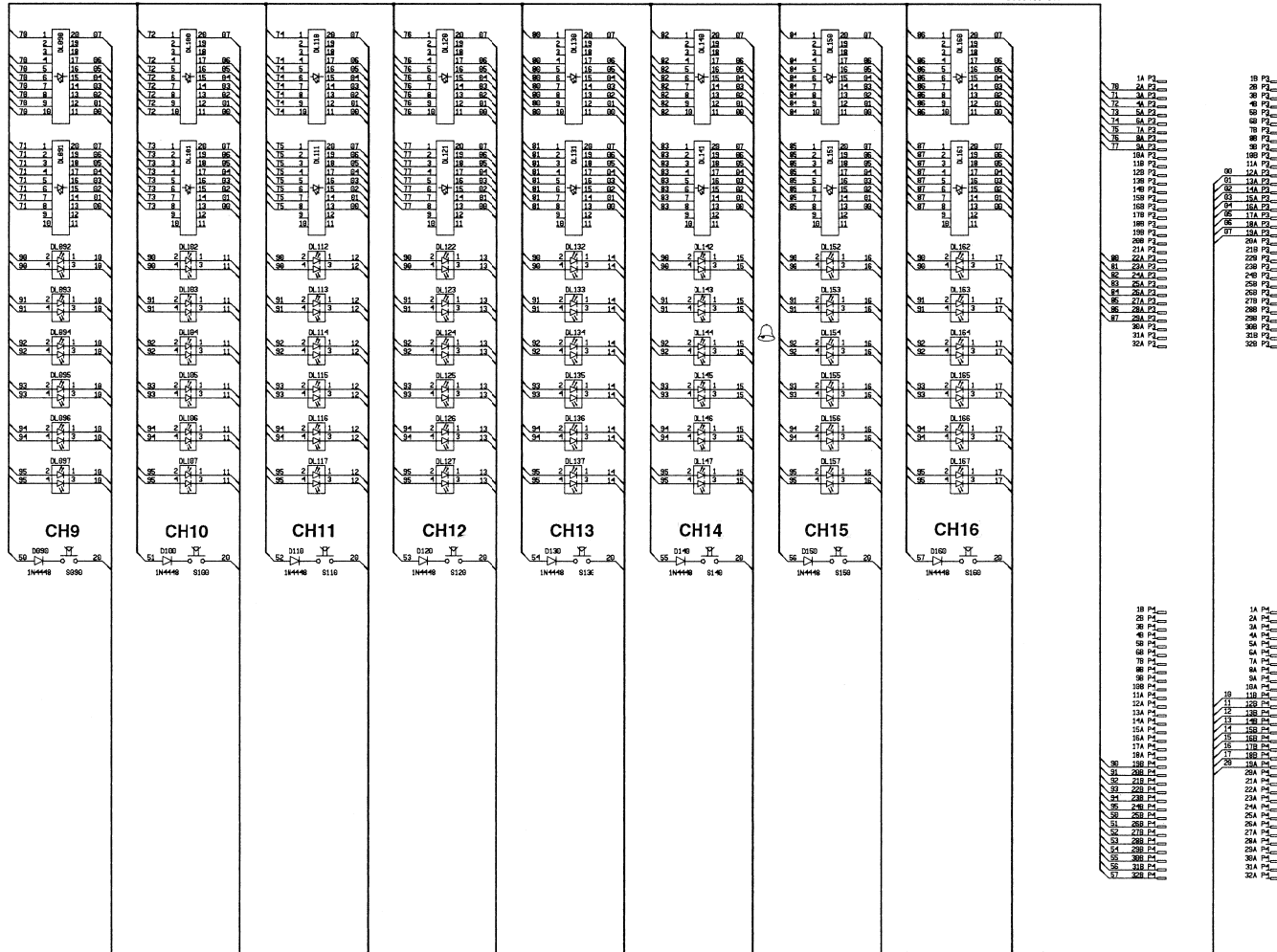
BUS1(40 97)



BUS2(08 37)



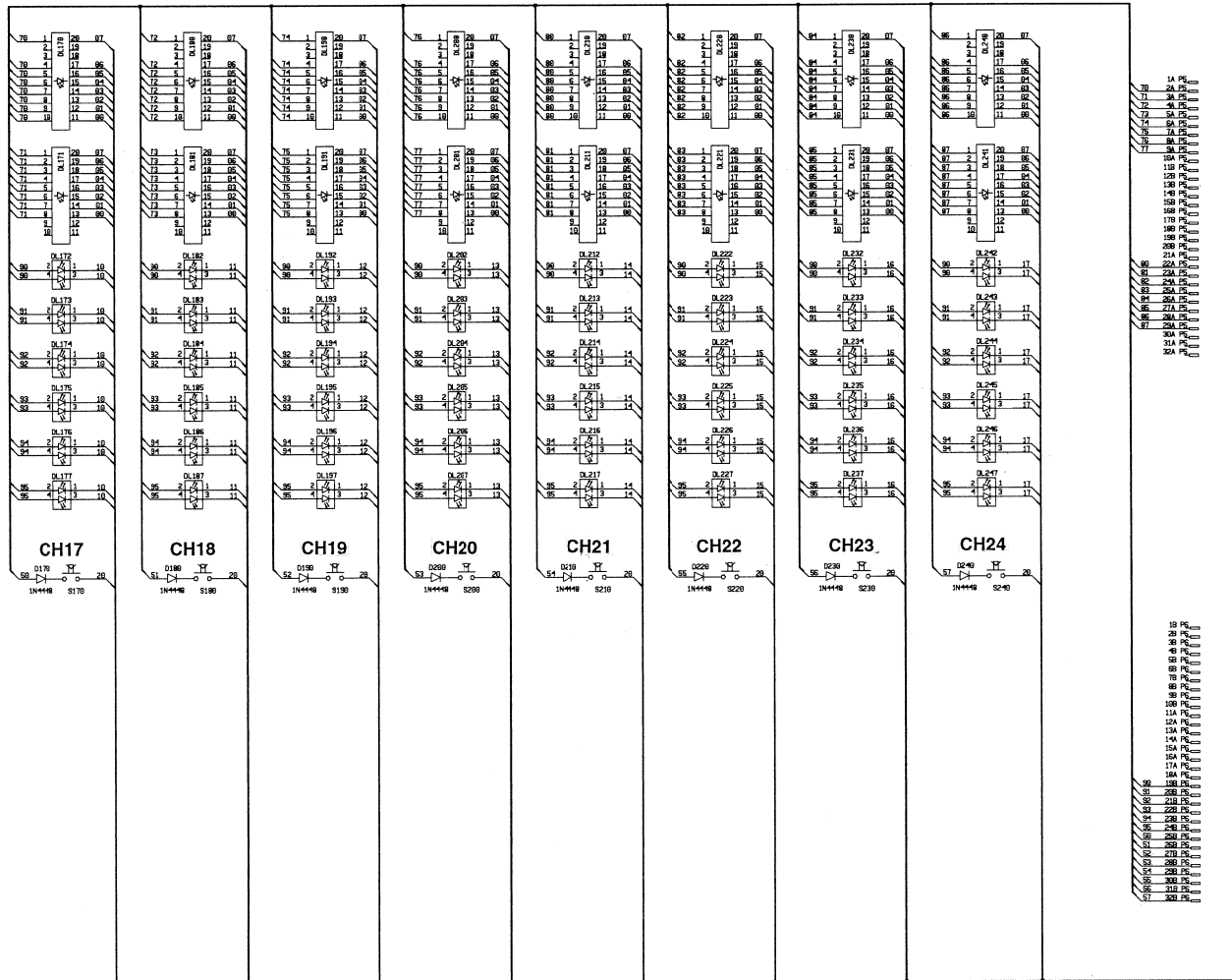
KEYBOARD & DISPLAY PCB LEFT 1.863.765.00





KEYBOARD & DISPLAY PCB LEFT 1.863.765.00

BUSS(50 97)

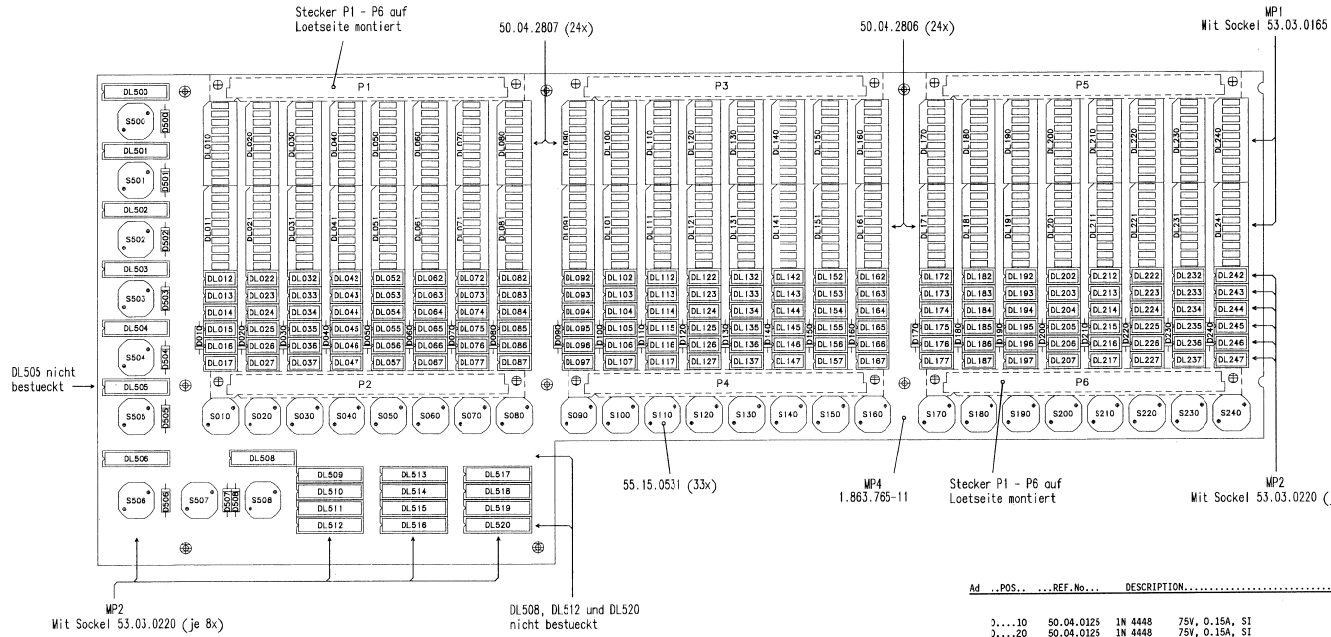


BUSS(00 21)

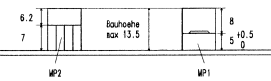
KEYBOARD & DISPLAY PCB LEFT 1.863.765.00



P1-P6 FROM / TO TD-CONTROL & DISPLAY DRIVER  
1.863.768.20 (J1-J6)



| Ad      | POS.       | REF.No.   | DESCRIPTION                              | MANUFACTURER |
|---------|------------|-----------|--|--------------|
| DL..21  | 50.04.2806 | ELB-1001/ | GWA LED BAR GRAPH, 10*grn                |              |
| DL..22  | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..23  | 50.04.2805 | HMP-2300  | LED LIGHT BARS, 2*red                    |              |
| DL..24  | 50.04.2803 | HMP-2500  | LED LIGHT BARS, 2*grn                    |              |
| DL..25  | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..26  | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..27  | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..30  | 50.04.2807 | ELB-1001/ | E42Y47G LED BAR GRAPH, 1*red+2*yel+7*grn |              |
| DL..31  | 50.04.2806 | ELB-1001/ | GWA LED BAR GRAPH, 10*grn                |              |
| DL..32  | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..33  | 50.04.2805 | HMP-2300  | LED LIGHT BARS, 2*red                    |              |
| DL..34  | 50.04.2803 | HMP-2500  | LED LIGHT BARS, 2*grn                    |              |
| DL..35  | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..36  | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..37  | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..40  | 50.04.2807 | ELB-1001/ | E42Y47G LED BAR GRAPH, 1*red+2*yel+7*grn |              |
| DL..41  | 50.04.2806 | ELB-1001/ | GWA LED BAR GRAPH, 10*grn                |              |
| DL..42  | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..43  | 50.04.2805 | HMP-2300  | LED LIGHT BARS, 2*red                    |              |
| DL..44  | 50.04.2803 | HMP-2500  | LED LIGHT BARS, 2*grn                    |              |
| DL..45  | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..46  | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..47  | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..50  | 50.04.2807 | ELB-1001/ | E42Y47G LED BAR GRAPH, 1*red+2*yel+7*grn |              |
| DL..51  | 50.04.2806 | ELB-1001/ | GWA LED BAR GRAPH, 10*grn                |              |
| DL..52  | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..53  | 50.04.2805 | HMP-2300  | LED LIGHT BARS, 2*red                    |              |
| DL..54  | 50.04.2803 | HMP-2500  | LED LIGHT BARS, 2*grn                    |              |
| DL..55  | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..56  | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..57  | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..60  | 50.04.2807 | ELB-1001/ | E42Y47G LED BAR GRAPH, 1*red+2*yel+7*grn |              |
| DL..61  | 50.04.2806 | ELB-1001/ | GWA LED BAR GRAPH, 10*grn                |              |
| DL..62  | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..63  | 50.04.2805 | HMP-2300  | LED LIGHT BARS, 2*red                    |              |
| DL..64  | 50.04.2803 | HMP-2500  | LED LIGHT BARS, 2*grn                    |              |
| DL..65  | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..66  | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..67  | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..70  | 50.04.2807 | ELB-1001/ | E42Y47G LED BAR GRAPH, 1*red+2*yel+7*grn |              |
| DL..71  | 50.04.2806 | ELB-1001/ | GWA LED BAR GRAPH, 10*grn                |              |
| DL..72  | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..73  | 50.04.2805 | HMP-2300  | LED LIGHT BARS, 2*red                    |              |
| DL..74  | 50.04.2803 | HMP-2500  | LED LIGHT BARS, 2*grn                    |              |
| DL..75  | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..76  | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..77  | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..80  | 50.04.2807 | ELB-1001/ | E42Y47G LED BAR GRAPH, 1*red+2*yel+7*grn |              |
| DL..81  | 50.04.2806 | ELB-1001/ | GWA LED BAR GRAPH, 10*grn                |              |
| DL..82  | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..83  | 50.04.2805 | HMP-2300  | LED LIGHT BARS, 2*red                    |              |
| DL..84  | 50.04.2803 | HMP-2500  | LED LIGHT BARS, 2*grn                    |              |
| DL..85  | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..86  | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..87  | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..90  | 50.04.2807 | ELB-1001/ | E42Y47G LED BAR GRAPH, 1*red+2*yel+7*grn |              |
| DL..91  | 50.04.2806 | ELB-1001/ | GWA LED BAR GRAPH, 10*grn                |              |
| DL..92  | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..93  | 50.04.2805 | HMP-2300  | LED LIGHT BARS, 2*red                    |              |
| DL..94  | 50.04.2803 | HMP-2500  | LED LIGHT BARS, 2*grn                    |              |
| DL..95  | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..96  | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..97  | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..100 | 50.04.2807 | ELB-1001/ | E42Y47G LED BAR GRAPH, 1*red+2*yel+7*grn |              |
| DL..101 | 50.04.2806 | ELB-1001/ | GWA LED BAR GRAPH, 10*grn                |              |
| DL..102 | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..103 | 50.04.2805 | HMP-2300  | LED LIGHT BARS, 2*red                    |              |
| DL..104 | 50.04.2803 | HMP-2500  | LED LIGHT BARS, 2*grn                    |              |
| DL..105 | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..106 | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..107 | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..110 | 50.04.2807 | ELB-1001/ | E42Y47G LED BAR GRAPH, 1*red+2*yel+7*grn |              |
| DL..111 | 50.04.2806 | ELB-1001/ | GWA LED BAR GRAPH, 10*grn                |              |
| DL..112 | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..113 | 50.04.2805 | HMP-2300  | LED LIGHT BARS, 2*red                    |              |
| DL..114 | 50.04.2803 | HMP-2500  | LED LIGHT BARS, 2*grn                    |              |
| DL..115 | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..116 | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..117 | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..120 | 50.04.2807 | ELB-1001/ | E42Y47G LED BAR GRAPH, 1*red+2*yel+7*grn |              |
| DL..121 | 50.04.2806 | ELB-1001/ | GWA LED BAR GRAPH, 10*grn                |              |
| DL..122 | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..123 | 50.04.2805 | HMP-2300  | LED LIGHT BARS, 2*red                    |              |
| DL..124 | 50.04.2803 | HMP-2500  | LED LIGHT BARS, 2*grn                    |              |
| DL..125 | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..126 | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..127 | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..130 | 50.04.2807 | ELB-1001/ | E42Y47G LED BAR GRAPH, 1*red+2*yel+7*grn |              |
| DL..131 | 50.04.2806 | ELB-1001/ | GWA LED BAR GRAPH, 10*grn                |              |
| DL..132 | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..133 | 50.04.2805 | HMP-2300  | LED LIGHT BARS, 2*red                    |              |
| DL..134 | 50.04.2803 | HMP-2500  | LED LIGHT BARS, 2*grn                    |              |
| DL..135 | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..136 | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..137 | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                    |              |
| DL..140 | 50.04.2807 | ELB-1001/ | E42Y47G LED BAR GRAPH, 1*red+2*yel+7*grn |              |



|               |      |      |      |       |  |
|---------------|------|------|------|-------|--|
| 17.08.93      | PZ   | PZ   |      |       |  |
| Datta         | Viro | Reed | Seel | Index |  |
| Copy to:      |      |      |      |       |  |
| Maple, Kater: |      |      |      |       |  |

STUDER REGENSDORF  
KEYBOARD & DISPLAY PCB LEFT  
Number: 1.863.765.00





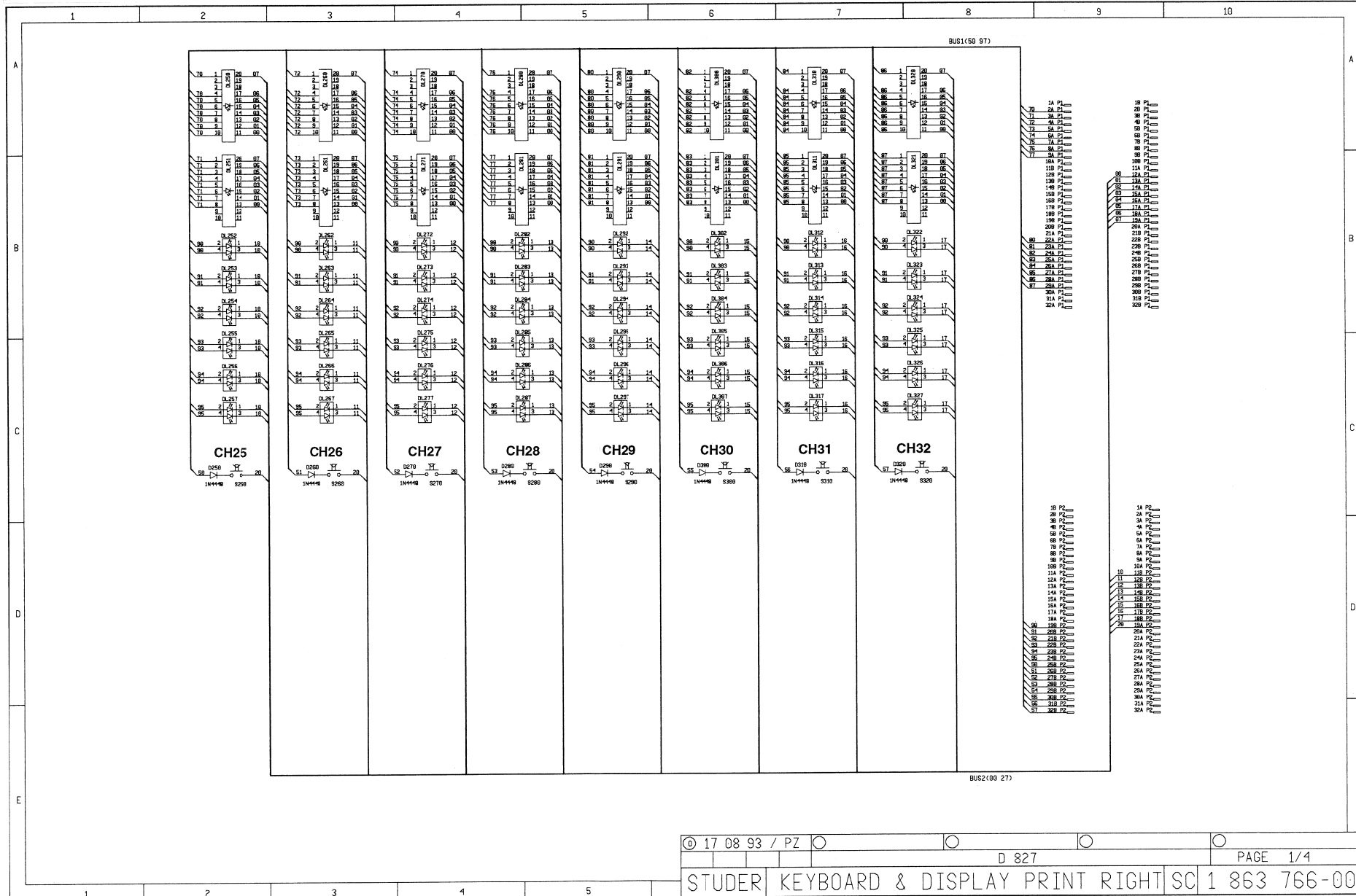
## KEYBOARD &amp; DISPLAY PCB LEFT 1.863.765.00

| Ad      | ..POS..    | ...REF.No... | DESCRIPTION.....                         | MANUFACTURER | Ad           | ..POS..                                   | ...REF.No... | DESCRIPTION.....               | MANUFACTURER |
|---------|------------|--------------|--|--------------|--------------|---|--------------|--------------------------------|--------------|
| DL..141 | 50.04.2806 | ELB-1001/    | GWA LED BAR GRAPH, 10*grn                |              | DL..501      | 50.04.2802                                | HLMP-2550    | LED LIGHT BARS, 4*grn          |              |
| DL..142 | 50.04.2804 | HLMP-2400    | LED LIGHT BARS, 2*yel                    |              | DL..502      | 50.04.2801                                | HLMP-2450    | LED LIGHT BARS, 4*yel          |              |
| DL..143 | 50.04.2805 | HLMP-2300    | LED LIGHT BARS, 2*red                    |              | DL..503      | 50.04.2801                                | HLMP-2450    | LED LIGHT BARS, 4*yel          |              |
| DL..144 | 50.04.2803 | HLMP-2500    | LED LIGHT BARS, 2*grn                    |              | DL..504      | 50.04.2801                                | HLMP-2450    | LED LIGHT BARS, 4*yel          |              |
| DL..146 | 50.04.2804 | HLMP-2400    | LED LIGHT BARS, 2*yel                    |              | DL..506      | 00.00.0000                                |              | not used                       |              |
| DL..146 | 50.04.2804 | HLMP-2400    | LED LIGHT BARS, 2*yel                    |              | DL..506      | 50.04.2801                                | HLMP-2450    | LED LIGHT BARS, 4*yel          |              |
| DL..147 | 50.04.2804 | HLMP-2400    | LED LIGHT BARS, 2*yel                    |              | DL..508      | 00.00.0000                                |              | not used                       |              |
| DL..150 | 50.04.2807 | ELB-1001/    | E+2Y+7G LED BAR GRAPH, 1*red+2*yel+7*grn |              | DL..509      | 50.04.2801                                | HLMP-2450    | LED LIGHT BARS, 4*yel          |              |
|         |            |              |  |              | DL..510      | 50.04.2801                                | HLMP-2450    | LED LIGHT BARS, 4*yel          |              |
| DL..151 | 50.04.2806 | ELB-1001/    | GWA LED BAR GRAPH, 10*grn                |              | DL..511      | 50.04.2801                                | HLMP-2450    | LED LIGHT BARS, 4*yel          |              |
| DL..152 | 50.04.2804 | HLMP-2400    | LED LIGHT BARS, 2*yel                    |              | DL..512      | 00.00.0000                                |              | not used                       |              |
| DL..153 | 50.04.2805 | HLMP-2300    | LED LIGHT BARS, 2*red                    |              | DL..513      | 50.04.2153                                | HLMP-2350    | LED LIGHT BARS, 4*red          |              |
| DL..154 | 50.04.2803 | HLMP-2500    | LED LIGHT BARS, 2*grn                    |              | DL..514      | 50.04.2801                                | HLMP-2450    | LED LIGHT BARS, 4*yel          |              |
| DL..155 | 50.04.2804 | HLMP-2400    | LED LIGHT BARS, 2*yel                    |              | DL..515      | 50.04.2153                                | HLMP-2350    | LED LIGHT BARS, 4*red          |              |
| DL..156 | 50.04.2804 | HLMP-2400    | LED LIGHT BARS, 2*yel                    |              | DL..516      | 50.04.2153                                | HLMP-2350    | LED LIGHT BARS, 4*red          |              |
| DL..157 | 50.04.2804 | HLMP-2400    | LED LIGHT BARS, 2*yel                    |              | DL..517      | 50.04.2801                                | HLMP-2450    | LED LIGHT BARS, 4*yel          |              |
| DL..160 | 50.04.2807 | ELB-1001/    | E+2Y+7G LED BAR GRAPH, 1*red+2*yel+7*grn |              | DL..518      | 50.04.2801                                | HLMP-2450    | LED LIGHT BARS, 4*yel          |              |
|         |            |              |  |              | DL..519      | 50.04.2801                                | HLMP-2450    | LED LIGHT BARS, 4*yel          |              |
| DL..161 | 50.04.2806 | ELB-1001/    | GWA LED BAR GRAPH, 10*grn                |              | DL..520      | 00.00.0000                                |              | not used                       |              |
| DL..162 | 50.04.2804 | HLMP-2400    | LED LIGHT BARS, 2*yel                    |              | MP....1      | 53.03.0165                                | 48 pcs       | XIC DIL 20-POL                 |              |
| DL..163 | 50.04.2805 | HLMP-2300    | LED LIGHT BARS, 2*red                    |              | MP....2      | 53.03.0220                                | 704 pcs      | XDL Single, 1 pce = 1 pin      |              |
| DL..164 | 50.04.2803 | HLMP-2500    | LED LIGHT BARS, 2*grn                    |              | MP....3      | 1.863.765.01                              | 1 pce        | Nr. Label 5 * 20               |              |
| DL..165 | 50.04.2804 | HLMP-2400    | LED LIGHT BARS, 2*yel                    |              | MP....4      | 1.863.765.11                              | 1 pce        | KEYBD & DISPLAY PRINT LEFT PCB |              |
| DL..166 | 50.04.2804 | HLMP-2400    | LED LIGHT BARS, 2*yel                    |              |              |   |              |                                |              |
| DL..167 | 50.04.2804 | HLMP-2400    | LED LIGHT BARS, 2*yel                    |              | P....1       | 54.11.2502                                |              | EU-Q 2 * 32 ACTION             |              |
| DL..170 | 50.04.2807 | ELB-1001/    | E+2Y+7G LED BAR GRAPH, 1*red+2*yel+7*grn |              | P....2       | 54.11.2502                                |              | EU-Q 2 * 32 ACTION             |              |
|         |            |              |  |              | P....3       | 54.11.2502                                |              | EU-Q 2 * 32 ACTION             |              |
| DL..171 | 50.04.2806 | ELB-1001/    | GWA LED BAR GRAPH, 10*grn                |              | P....4       | 54.11.2502                                |              | EU-Q 2 * 32 ACTION             |              |
| DL..172 | 50.04.2804 | HLMP-2400    | LED LIGHT BARS, 2*yel                    |              | P....5       | 54.11.2502                                |              | EU-Q 2 * 32 ACTION             |              |
| DL..173 | 50.04.2805 | HLMP-2300    | LED LIGHT BARS, 2*red                    |              | P....6       | 54.11.2502                                |              | EU-Q 2 * 32 ACTION             |              |
| DL..174 | 50.04.2803 | HLMP-2500    | LED LIGHT BARS, 2*grn                    |              | S...10       | 55.15.0531                                | 1*A          | Push button, Impuls            |              |
| DL..175 | 50.04.2804 | HLMP-2400    | LED LIGHT BARS, 2*yel                    |              | S...20       | 55.15.0531                                | 1*A          | Push button, Impuls            |              |
| DL..176 | 50.04.2804 | HLMP-2400    | LED LIGHT BARS, 2*yel                    |              | S...30       | 55.15.0531                                | 1*A          | Push button, Impuls            |              |
| DL..177 | 50.04.2804 | HLMP-2400    | LED LIGHT BARS, 2*yel                    |              | S...40       | 55.15.0531                                | 1*A          | Push button, Impuls            |              |
| DL..180 | 50.04.2807 | ELB-1001/    | E+2Y+7G LED BAR GRAPH, 1*red+2*yel+7*grn |              | S...50       | 55.15.0531                                | 1*A          | Push button, Impuls            |              |
|         |            |              |  |              | S...60       | 55.15.0531                                | 1*A          | Push button, Impuls            |              |
| DL..181 | 50.04.2806 | ELB-1001/    | GWA LED BAR GRAPH, 10*grn                |              | S...70       | 55.15.0531                                | 1*A          | Push button, Impuls            |              |
| DL..182 | 50.04.2804 | HLMP-2400    | LED LIGHT BARS, 2*yel                    |              | S...80       | 55.15.0531                                | 1*A          | Push button, Impuls            |              |
| DL..183 | 50.04.2805 | HLMP-2300    | LED LIGHT BARS, 2*red                    |              | S...90       | 55.15.0531                                | 1*A          | Push button, Impuls            |              |
| DL..184 | 50.04.2803 | HLMP-2500    | LED LIGHT BARS, 2*grn                    |              | S...100      | 55.15.0531                                | 1*A          | Push button, Impuls            |              |
| DL..185 | 50.04.2804 | HLMP-2400    | LED LIGHT BARS, 2*yel                    |              |              |   |              |                                |              |
| DL..186 | 50.04.2804 | HLMP-2400    | LED LIGHT BARS, 2*yel                    |              | S...110      | 55.15.0531                                | 1*A          | Push button, Impuls            |              |
| DL..187 | 50.04.2804 | HLMP-2400    | LED LIGHT BARS, 2*yel                    |              | S...120      | 55.15.0531                                | 1*A          | Push button, Impuls            |              |
| DL..190 | 50.04.2807 | ELB-1001/    | E+2Y+7G LED BAR GRAPH, 1*red+2*yel+7*grn |              | S...130      | 55.15.0531                                | 1*A          | Push button, Impuls            |              |
|         |            |              |  |              | S...140      | 55.15.0531                                | 1*A          | Push button, Impuls            |              |
| DL..191 | 50.04.2806 | ELB-1001/    | GWA LED BAR GRAPH, 10*grn                |              | S...150      | 55.15.0531                                | 1*A          | Push button, Impuls            |              |
| DL..192 | 50.04.2804 | HLMP-2400    | LED LIGHT BARS, 2*yel                    |              | S...160      | 55.15.0531                                | 1*A          | Push button, Impuls            |              |
| DL..193 | 50.04.2805 | HLMP-2300    | LED LIGHT BARS, 2*red                    |              | S...170      | 55.15.0531                                | 1*A          | Push button, Impuls            |              |
| DL..194 | 50.04.2803 | HLMP-2500    | LED LIGHT BARS, 2*grn                    |              | S...180      | 55.15.0531                                | 1*A          | Push button, Impuls            |              |
| DL..195 | 50.04.2804 | HLMP-2400    | LED LIGHT BARS, 2*yel                    |              | S...190      | 55.15.0531                                | 1*A          | Push button, Impuls            |              |
| DL..196 | 50.04.2804 | HLMP-2400    | LED LIGHT BARS, 2*yel                    |              | S...200      | 55.15.0531                                | 1*A          | Push button, Impuls            |              |
| DL..197 | 50.04.2804 | HLMP-2400    | LED LIGHT BARS, 2*yel                    |              |              |   |              |                                |              |
| DL..200 | 50.04.2807 | ELB-1001/    | E+2Y+7G LED BAR GRAPH, 1*red+2*yel+7*grn |              | S...210      | 55.15.0531                                | 1*A          | Push button, Impuls            |              |
|         |            |              |  |              | S...220      | 55.15.0531                                | 1*A          | Push button, Impuls            |              |
| DL..201 | 50.04.2806 | ELB-1001/    | GWA LED BAR GRAPH, 10*grn                |              | S...230      | 55.15.0531                                | 1*A          | Push button, Impuls            |              |
| DL..202 | 50.04.2804 | HLMP-2400    | LED LIGHT BARS, 2*yel                    |              | S...240      | 55.15.0531                                | 1*A          | Push button, Impuls            |              |
| DL..203 | 50.04.2805 | HLMP-2300    | LED LIGHT BARS, 2*red                    |              |              |   |              |                                |              |
| DL..204 | 50.04.2803 | HLMP-2500    | LED LIGHT BARS, 2*grn                    |              | S...500      | 55.15.0531                                | 1*A          | Push button, Impuls            |              |
| DL..205 | 50.04.2804 | HLMP-2400    | LED LIGHT BARS, 2*yel                    |              |              |   |              |                                |              |
| DL..206 | 50.04.2804 | HLMP-2400    | LED LIGHT BARS, 2*yel                    |              | S...501      | 55.15.0531                                | 1*A          | Push button, Impuls            |              |
| DL..207 | 50.04.2804 | HLMP-2400    | LED LIGHT BARS, 2*yel                    |              | S...502      | 55.15.0531                                | 1*A          | Push button, Impuls            |              |
| DL..210 | 50.04.2807 | ELB-1001/    | E+2Y+7G LED BAR GRAPH, 1*red+2*yel+7*grn |              | S...503      | 55.15.0531                                | 1*A          | Push button, Impuls            |              |
|         |            |              |  |              | S...504      | 55.15.0531                                | 1*A          | Push button, Impuls            |              |
| DL..211 | 50.04.2806 | ELB-1001/    | GWA LED BAR GRAPH, 10*grn                |              | S...505      | 55.15.0531                                | 1*A          | Push button, Impuls            |              |
| DL..212 | 50.04.2804 | HLMP-2400    | LED LIGHT BARS, 2*yel                    |              | S...506      | 55.15.0531                                | 1*A          | Push button, Impuls            |              |
| DL..213 | 50.04.2805 | HLMP-2300    | LED LIGHT BARS, 2*red                    |              | S...507      | 55.15.0531                                | 1*A          | Push button, Impuls            |              |
| DL..214 | 50.04.2803 | HLMP-2500    | LED LIGHT BARS, 2*grn                    |              | S...508      | 55.15.0531                                | 1*A          | Push button, Impuls            |              |
| DL..215 | 50.04.2804 | HLMP-2400    | LED LIGHT BARS, 2*yel                    |              |              |   |              |                                |              |
| DL..216 | 50.04.2804 | HLMP-2400    | LED LIGHT BARS, 2*yel                    |              | 1.863.765.00 | KEYBOARD & DISPLAY PCB LEFT GP 93/08/1700 |              |                                |              |
| DL..217 | 50.04.2804 | HLMP-2400    | LED LIGHT BARS, 2*yel                    |              |              |   |              |                                |              |
| DL..220 | 50.04.2807 | ELB-1001/    | E+2Y+7G LED BAR GRAPH, 1*red+2*yel+7*grn |              |              |   |              |                                |              |
|         |            |              |  |              |              |   |              |                                |              |
| DL..221 | 50.04.2806 | ELB-1001/    | GWA LED BAR GRAPH, 10*grn                |              |              |   |              |                                |              |
| DL..222 | 50.04.2804 | HLMP-2400    | LED LIGHT BARS, 2*yel                    |              |              |   |              |                                |              |
| DL..223 | 50.04.2805 | HLMP-2300    | LED LIGHT BARS, 2*red                    |              |              |   |              |                                |              |
| DL..224 | 50.04.2803 | HLMP-2500    | LED LIGHT BARS, 2*grn                    |              |              |   |              |                                |              |
| DL..225 | 50.04.2804 | HLMP-2400    | LED LIGHT BARS, 2*yel                    |              |              |   |              |                                |              |
| DL..226 | 50.04.2804 | HLMP-2400    | LED LIGHT BARS, 2*yel                    |              |              |   |              |                                |              |
| DL..227 | 50.04.2804 | HLMP-2400    | LED LIGHT BARS, 2*yel                    |              |              |   |              |                                |              |
| DL..230 | 50.04.2807 | ELB-1001/    | E+2Y+7G LED BAR GRAPH, 1*red+2*yel+7*grn |              |              |   |              |                                |              |
|         |            |              |  |              |              |   |              |                                |              |
| DL..231 | 50.04.2806 | ELB-1001/    | GWA LED BAR GRAPH, 10*grn                |              |              |   |              |                                |              |
| DL..232 | 50.04.2804 | HLMP-2400    | LED LIGHT BARS, 2*yel                    |              |              |   |              |                                |              |
| DL..233 | 50.04.2805 | HLMP-2300    | LED LIGHT BARS, 2*red                    |              |              |   |              |                                |              |
| DL..234 | 50.04.2803 | HLMP-2500    | LED LIGHT BARS, 2*grn                    |              |              |   |              |                                |              |
| DL..235 | 50.04.2804 | HLMP-2400    | LED LIGHT BARS, 2*yel                    |              |              |   |              |                                |              |
| DL..236 | 50.04.2804 | HLMP-2400    | LED LIGHT BARS, 2*yel                    |              |              |   |              |                                |              |
| DL..237 | 50.04.2804 | HLMP-2400    | LED LIGHT BARS, 2*yel                    |              |              |   |              |                                |              |
| DL..240 | 50.04.2807 | ELB-1001/    | E+2Y+7G LED BAR GRAPH, 1*red+2*yel+7*grn |              |              |   |              |                                |              |
|         |            |              |  |              |              |   |              |                                |              |
| DL..241 | 50.04.2806 | ELB-1001/    | GWA LED BAR GRAPH, 10*grn                |              |              |   |              |                                |              |
| DL..242 | 50.04.2804 | HLMP-2400    | LED LIGHT BARS, 2*yel                    |              |              |   |              |                                |              |
| DL..243 | 50.04.2805 | HLMP-2300    | LED LIGHT BARS, 2*red                    |              |              |   |              |                                |              |
| DL..244 | 50.04.2803 | HLMP-2500    | LED LIGHT BARS, 2*grn                    |              |              |   |              |                                |              |
| DL..245 | 50.04.2804 | HLMP-2400    | LED LIGHT BARS, 2*yel                    |              |              |   |              |                                |              |
| DL..246 | 50.04.2804 | HLMP-2400    | LED LIGHT BARS, 2*yel                    |              |              |   |              |                                |              |
| DL..247 | 50.04.2804 | HLMP-2400    | LED LIGHT BARS, 2*yel                    |              |              |   |              |                                |              |
|         |            |              |  |              |              |   |              |                                |              |
| DL..500 | 50.04.2801 | HLMP-2450    | LED LIGHT BARS, 4*yel                    |              |              |   |              |                                |              |

STUDER D827 MCH

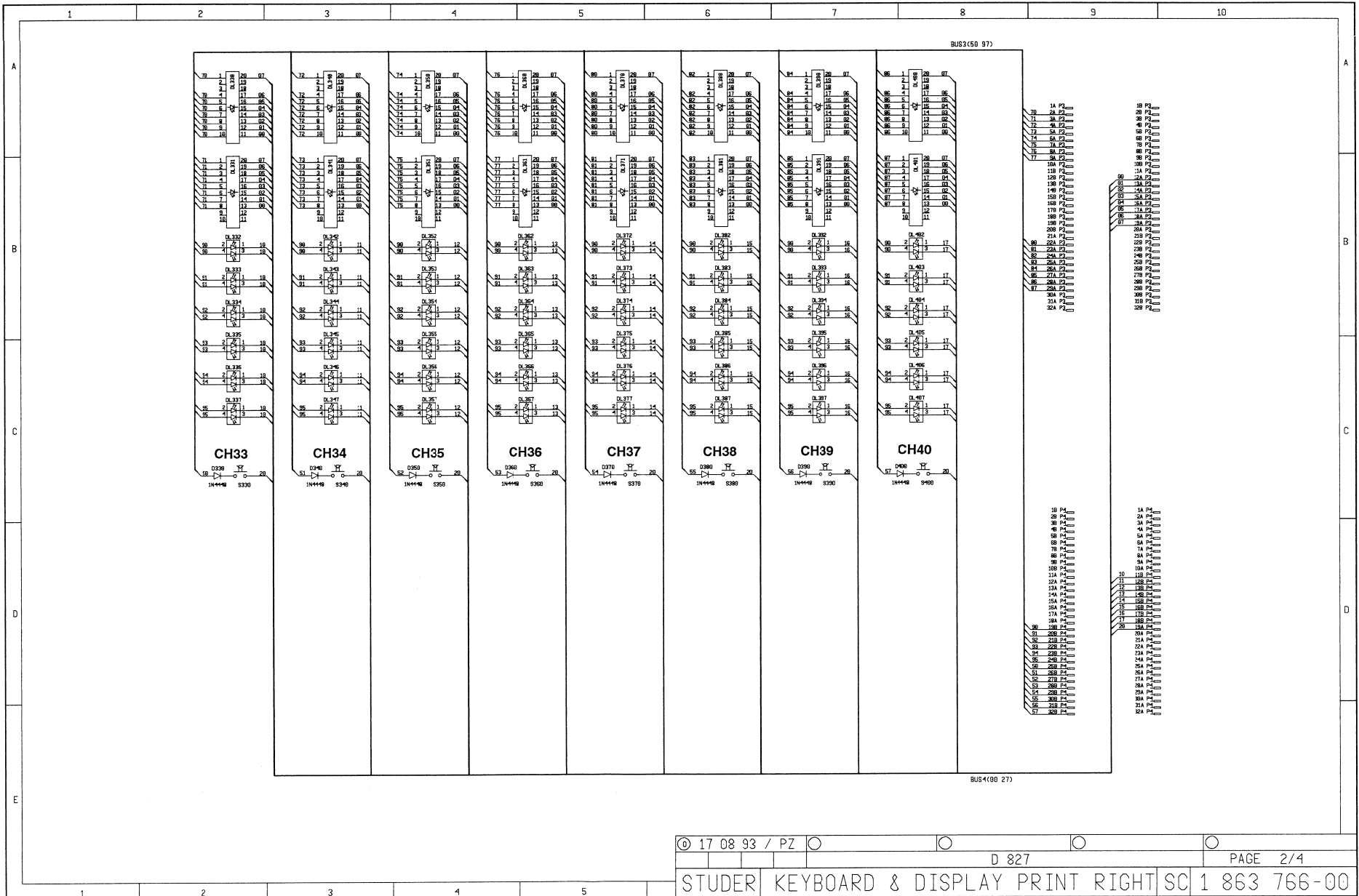


KEYBOARD & DISPLAY PCB RIGHT 1.863.766.00





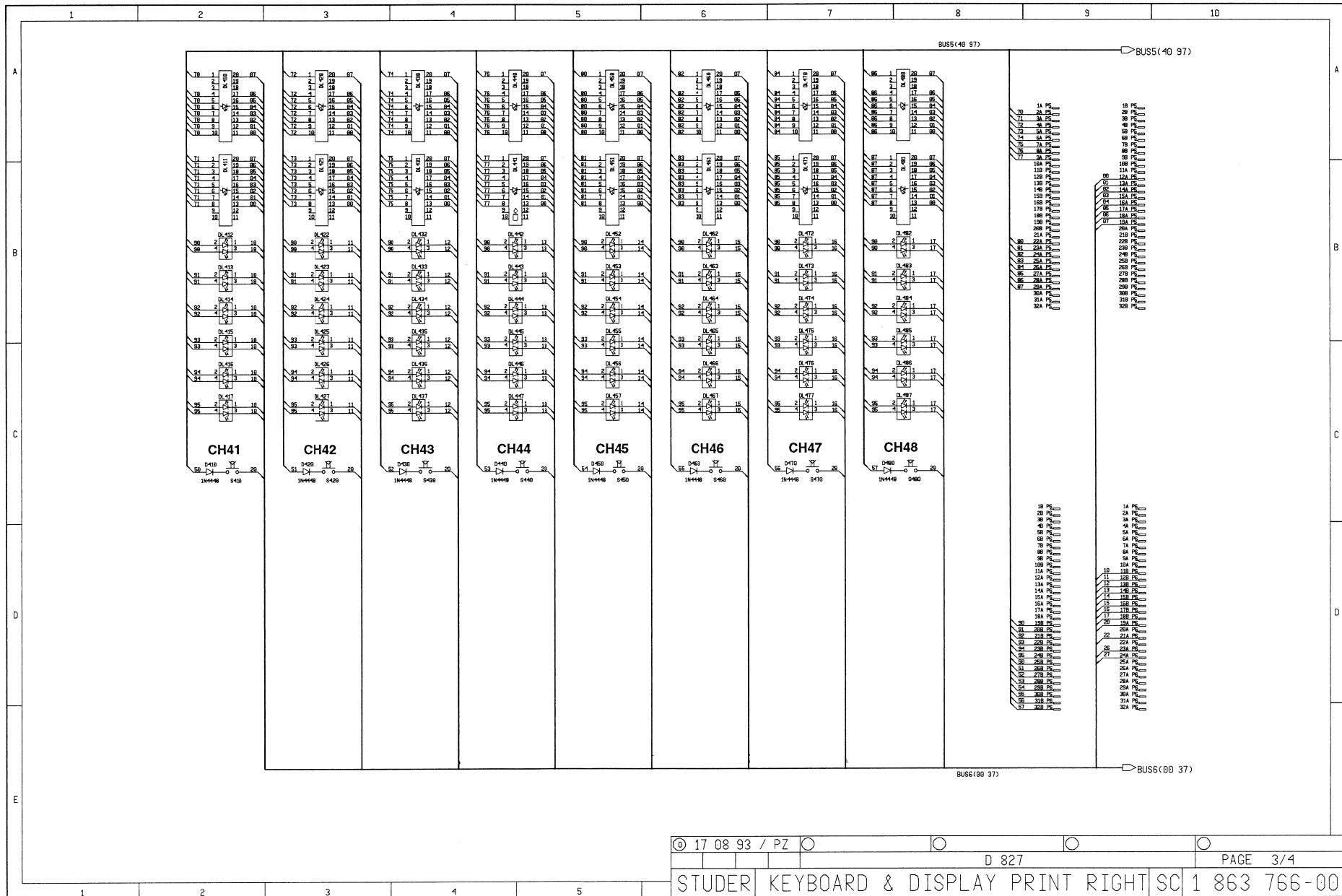
KEYBOARD & DISPLAY PCB RIGHT 1.863.766.00



STUDER D827 MCH

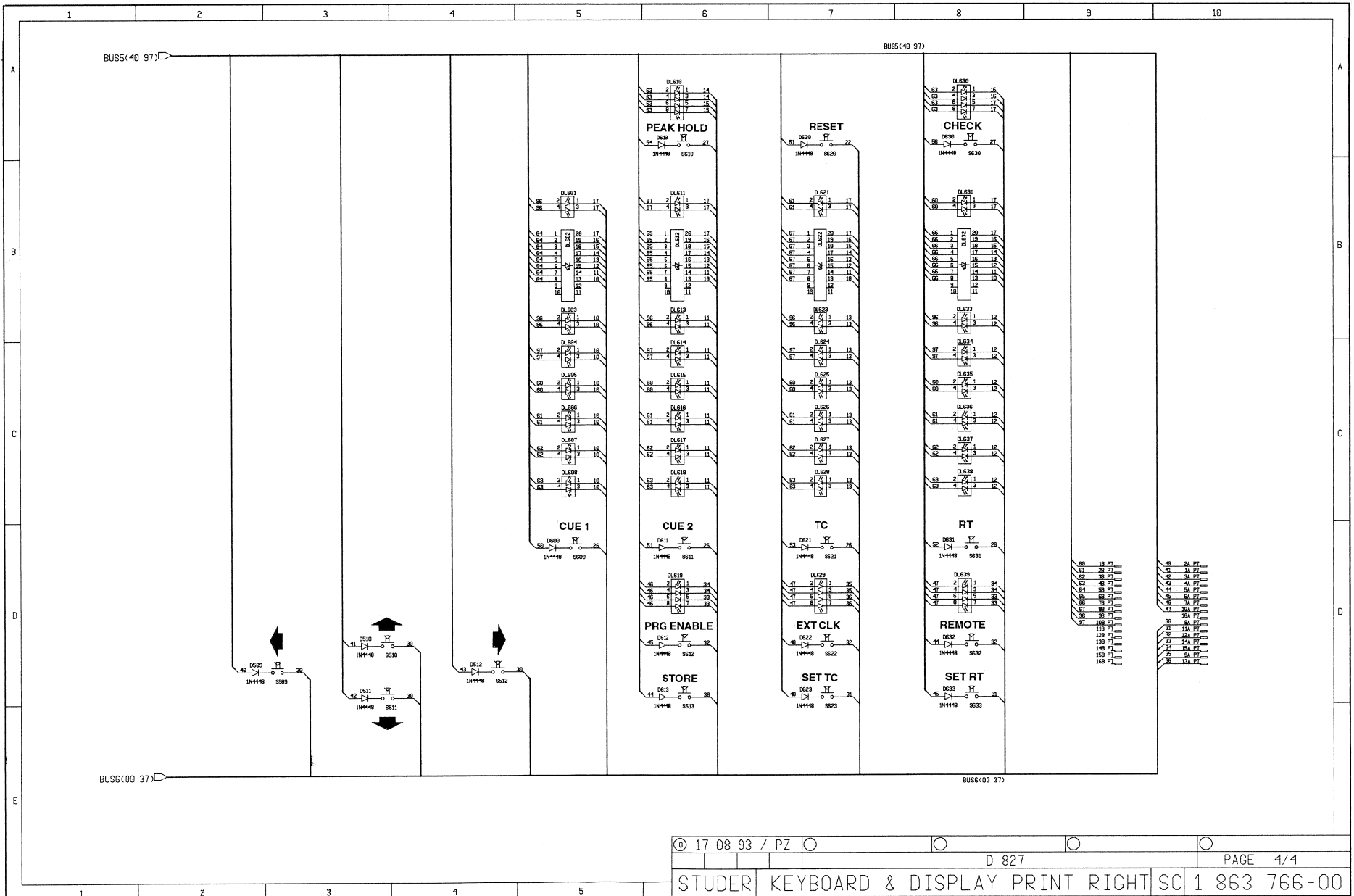


KEYBOARD & DISPLAY PCB RIGHT 1.863.766.00





KEYBOARD & DISPLAY PCB RIGHT 1.863.766.00

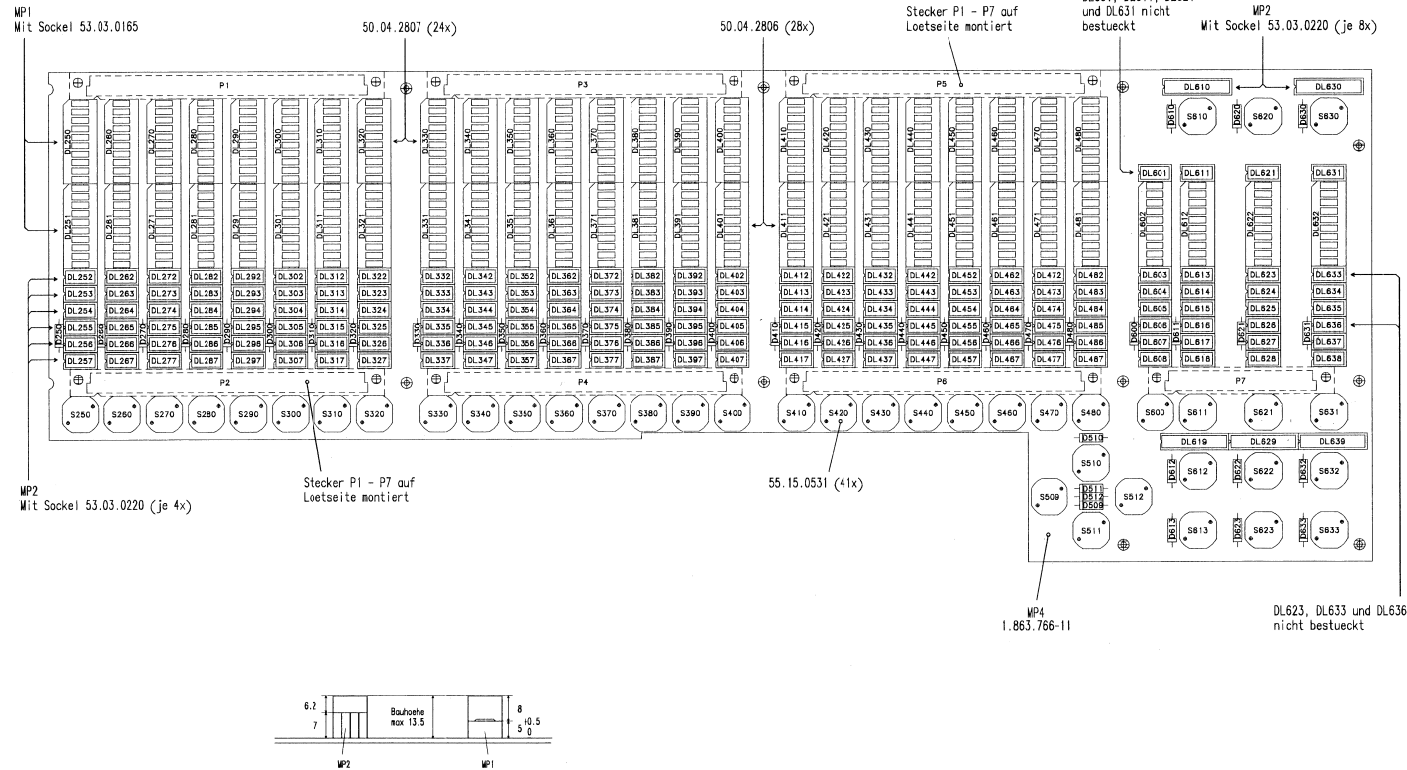


# STUDER D827 MCH



## KEYBOARD & DISPLAY PCB RIGHT 1.863.766.00

### P1-P7 FROM / TO SERBUS CONTROL & DISPLAY DRIVER 1.863.769 (J1-J7)



| Ad | POS. | REF.No. | DESCRIPTION | MANUFACTURER |
|----|------|---------|-------------|--------------|
|----|------|---------|-------------|--------------|

|        |            |           |   |  |
|--------|------------|-----------|---|--|
| D..250 | 50.04.0125 | IN 4448   | 75V, 0.15A, SI                          |  |
| D..260 | 50.04.0125 | IN 4448   | 75V, 0.15A, SI                          |  |
| D..270 | 50.04.0125 | IN 4448   | 75V, 0.15A, SI                          |  |
| D..280 | 50.04.0125 | IN 4448   | 75V, 0.15A, SI                          |  |
| D..290 | 50.04.0125 | IN 4448   | 75V, 0.15A, SI                          |  |
| D..300 | 50.04.0125 | IN 4448   | 75V, 0.15A, SI                          |  |
| D..310 | 50.04.0125 | IN 4448   | 75V, 0.15A, SI                          |  |
| D..320 | 50.04.0125 | IN 4448   | 75V, 0.15A, SI                          |  |
| D..330 | 50.04.0125 | IN 4448   | 75V, 0.15A, SI                          |  |
| D..340 | 50.04.0125 | IN 4448   | 75V, 0.15A, SI                          |  |
| D..350 | 50.04.0125 | IN 4448   | 75V, 0.15A, SI                          |  |
| D..360 | 50.04.0125 | IN 4448   | 75V, 0.15A, SI                          |  |
| D..370 | 50.04.0125 | IN 4448   | 75V, 0.15A, SI                          |  |
| D..380 | 50.04.0125 | IN 4448   | 75V, 0.15A, SI                          |  |
| D..390 | 50.04.0125 | IN 4448   | 75V, 0.15A, SI                          |  |
| D..400 | 50.04.0125 | IN 4448   | 75V, 0.15A, SI                          |  |
| D..410 | 50.04.0125 | IN 4448   | 75V, 0.15A, SI                          |  |
| D..420 | 50.04.0125 | IN 4448   | 75V, 0.15A, SI                          |  |
| D..430 | 50.04.0125 | IN 4448   | 75V, 0.15A, SI                          |  |
| D..440 | 50.04.0125 | IN 4448   | 75V, 0.15A, SI                          |  |
| D..450 | 50.04.0125 | IN 4448   | 75V, 0.15A, SI                          |  |
| D..460 | 50.04.0125 | IN 4448   | 75V, 0.15A, SI                          |  |
| D..470 | 50.04.0125 | IN 4448   | 75V, 0.15A, SI                          |  |
| D..480 | 50.04.0125 | IN 4448   | 75V, 0.15A, SI                          |  |
| D..509 | 50.04.0125 | IN 4448   | 75V, 0.15A, SI                          |  |
| D..510 | 50.04.0125 | IN 4448   | 75V, 0.15A, SI                          |  |
| D..511 | 50.04.0125 | IN 4448   | 75V, 0.15A, SI                          |  |
| D..512 | 50.04.0125 | IN 4448   | 75V, 0.15A, SI                          |  |
| D..600 | 50.04.0125 | IN 4448   | 75V, 0.15A, SI                          |  |
| D..610 | 50.04.0125 | IN 4448   | 75V, 0.15A, SI                          |  |
| D..611 | 50.04.0125 | IN 4448   | 75V, 0.15A, SI                          |  |
| D..612 | 50.04.0125 | IN 4448   | 75V, 0.15A, SI                          |  |
| D..613 | 50.04.0125 | IN 4448   | 75V, 0.15A, SI                          |  |
| D..620 | 50.04.0125 | IN 4448   | 75V, 0.15A, SI                          |  |
| D..621 | 50.04.0125 | IN 4448   | 75V, 0.15A, SI                          |  |
| D..622 | 50.04.0125 | IN 4448   | 75V, 0.15A, SI                          |  |
| D..623 | 50.04.0125 | IN 4448   | 75V, 0.15A, SI                          |  |
| D..630 | 50.04.0125 | IN 4448   | 75V, 0.15A, SI                          |  |
| D..631 | 50.04.0125 | IN 4448   | 75V, 0.15A, SI                          |  |
| D..632 | 50.04.0125 | IN 4448   | 75V, 0.15A, SI                          |  |
| D..633 | 50.04.0125 | IN 4448   | 75V, 0.15A, SI                          |  |
| D..250 | 50.04.2807 | ELB-1001/ | E2Y+7G LED BAR GRAPH, 1*red+2*yel+7*grn |  |
| D..251 | 50.04.2806 | ELB-1001/ | GWA LED BAR GRAPH, 10*grn               |  |
| D..252 | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                   |  |
| D..253 | 50.04.2805 | HMP-2300  | LED LIGHT BARS, 2*red                   |  |
| D..254 | 50.04.2803 | HMP-2500  | LED LIGHT BARS, 2*grn                   |  |
| D..255 | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                   |  |
| D..256 | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                   |  |
| D..257 | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                   |  |
| D..260 | 50.04.2807 | ELB-1001/ | E2Y+7G LED BAR GRAPH, 1*red+2*yel+7*grn |  |
| D..261 | 50.04.2806 | ELB-1001/ | GWA LED BAR GRAPH, 10*grn               |  |
| D..262 | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                   |  |
| D..263 | 50.04.2805 | HMP-2300  | LED LIGHT BARS, 2*red                   |  |
| D..264 | 50.04.2803 | HMP-2500  | LED LIGHT BARS, 2*grn                   |  |
| D..265 | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                   |  |
| D..266 | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                   |  |
| D..267 | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                   |  |
| D..270 | 50.04.2807 | ELB-1001/ | E2Y+7G LED BAR GRAPH, 1*red+2*yel+7*grn |  |
| D..271 | 50.04.2806 | ELB-1001/ | GWA LED BAR GRAPH, 10*grn               |  |
| D..272 | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                   |  |
| D..273 | 50.04.2805 | HMP-2300  | LED LIGHT BARS, 2*red                   |  |
| D..274 | 50.04.2803 | HMP-2500  | LED LIGHT BARS, 2*grn                   |  |
| D..275 | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                   |  |
| D..276 | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                   |  |
| D..277 | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                   |  |
| D..280 | 50.04.2807 | ELB-1001/ | E2Y+7G LED BAR GRAPH, 1*red+2*yel+7*grn |  |
| D..281 | 50.04.2806 | ELB-1001/ | GWA LED BAR GRAPH, 10*grn               |  |
| D..282 | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                   |  |
| D..283 | 50.04.2805 | HMP-2300  | LED LIGHT BARS, 2*red                   |  |
| D..284 | 50.04.2803 | HMP-2500  | LED LIGHT BARS, 2*grn                   |  |
| D..285 | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                   |  |
| D..286 | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                   |  |
| D..287 | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                   |  |
| D..290 | 50.04.2807 | ELB-1001/ | E2Y+7G LED BAR GRAPH, 1*red+2*yel+7*grn |  |
| D..291 | 50.04.2806 | ELB-1001/ | GWA LED BAR GRAPH, 10*grn               |  |
| D..292 | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                   |  |
| D..293 | 50.04.2805 | HMP-2300  | LED LIGHT BARS, 2*red                   |  |
| D..294 | 50.04.2803 | HMP-2500  | LED LIGHT BARS, 2*grn                   |  |
| D..295 | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                   |  |
| D..296 | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                   |  |
| D..297 | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                   |  |
| D..300 | 50.04.2807 | ELB-1001/ | E2Y+7G LED BAR GRAPH, 1*red+2*yel+7*grn |  |
| D..301 | 50.04.2806 | ELB-1001/ | GWA LED BAR GRAPH, 10*grn               |  |
| D..302 | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                   |  |
| D..303 | 50.04.2805 | HMP-2300  | LED LIGHT BARS, 2*red                   |  |
| D..304 | 50.04.2803 | HMP-2500  | LED LIGHT BARS, 2*grn                   |  |
| D..305 | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                   |  |
| D..306 | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                   |  |
| D..307 | 50.04.2804 | HMP-2400  | LED LIGHT BARS, 2*yel                   |  |
| D..310 | 50.04.2807 | ELB-1001/ | E2Y+7G LED BAR GRAPH, 1*red+2*yel+7*grn |  |

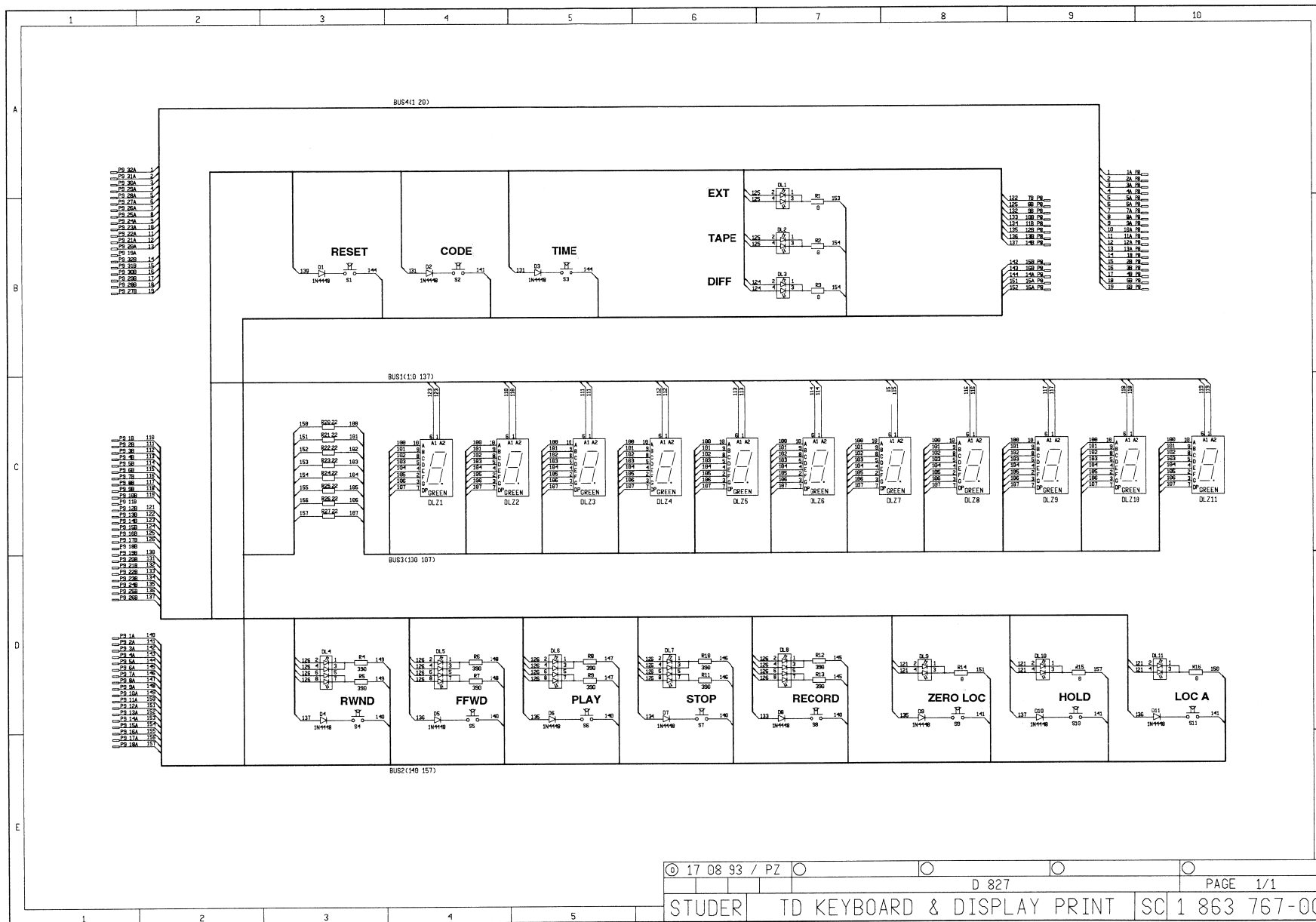
| Position | Part No.    | Quantity | Unit | Remarks |
|----------|-------------|----------|------|---------|
| 17.08.93 | PZ          | PZ       |      |         |
| Date     | Vis         | Dess     | Seem | Index   |
| Drawn    | Eng         | Eng      | Eng  |         |
| Copy to: | Kopie fuer: |          |      |         |

**STUDER** REGENSDORF **KEYBOARD & DISPLAY PCB RIGHT 1.863.766.00**





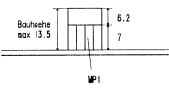
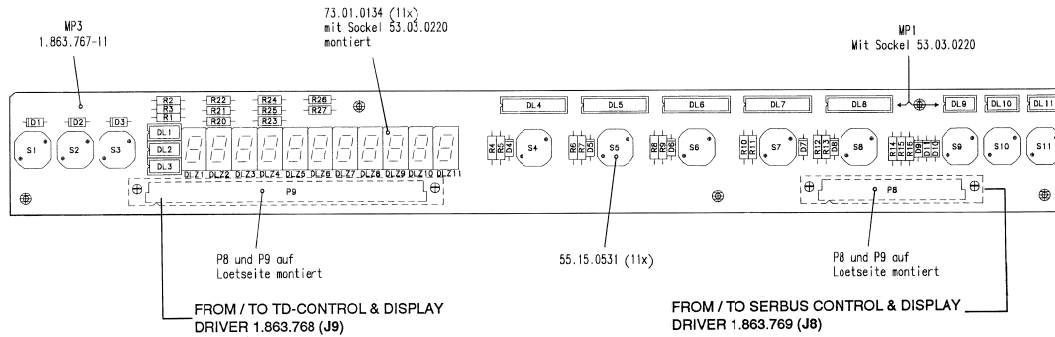
TD KEYBOARD & DISPLAY PCB 1.863.767.00







KEYBOARD & DISPLAY PCB RIGHT 1.863.766.00



|          |               |     |     |     |     |     |     |     |      |
|----------|---------------|-----|-----|-----|-----|-----|-----|-----|------|
| Edition  | Modif/lechten |     |     |     |     |     |     |     |      |
| Angabe   | Angabe        |     |     |     |     |     |     |     |      |
| 17.08.93 | PZ            | PZ  |     |     |     |     |     |     |      |
| Zeile    | Von           | Bis | Gez | Gez | Gez | Gez | Gez | Gez | Inde |
| Copy to: | Kopie fuer:   |     |     |     |     |     |     |     |      |

**STUDER**  
REGENSDORF TD KEYBOARD & DISPLAY PCB 1.863.767.00

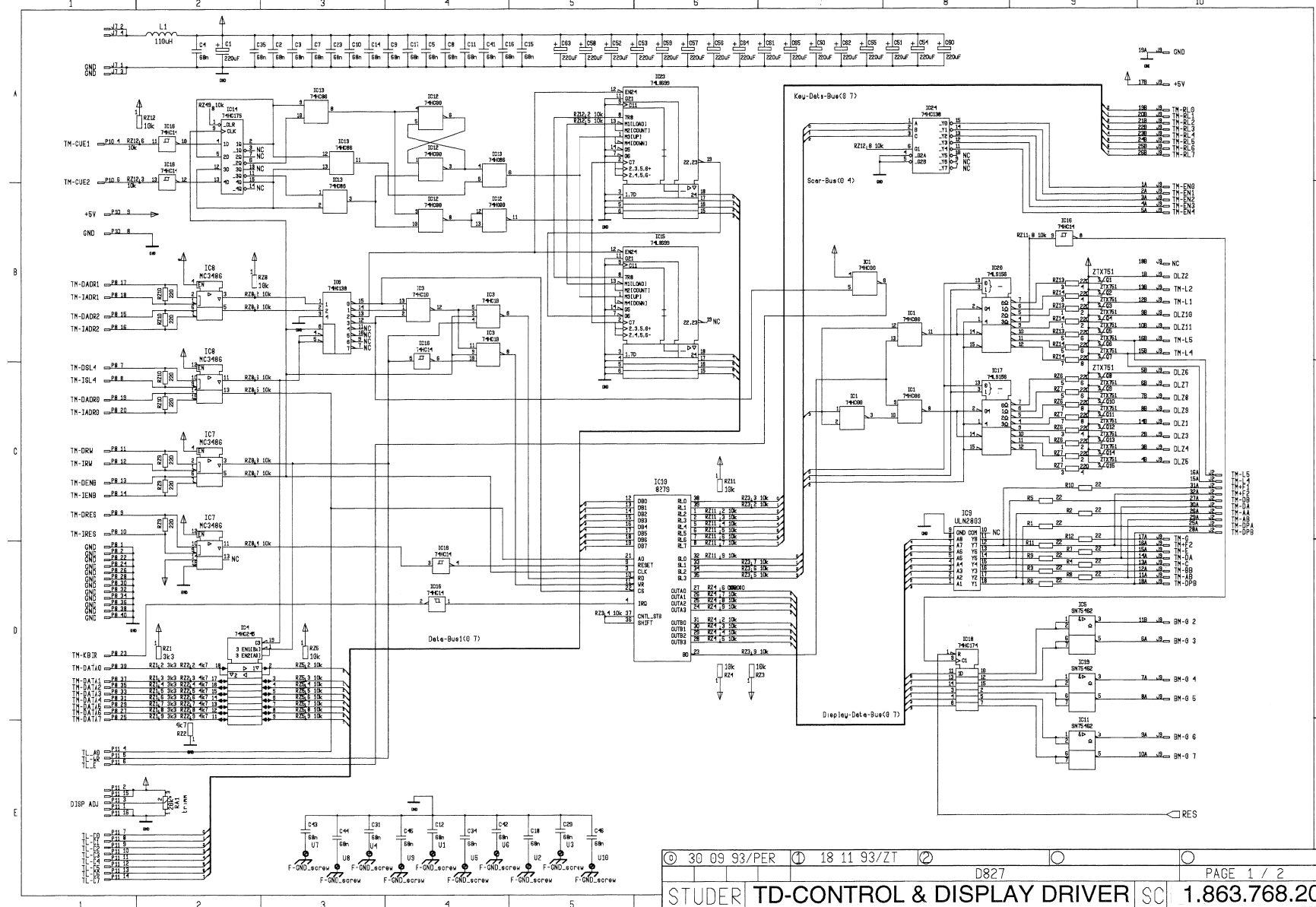
Ad \_POS... REF.No... DESCRIPTION... MANUFACTURER

|          |              |          |                                |  |
|----------|--------------|----------|--------------------------------|--|
| D....1   | 50.04.0125   | IN 4448  | 75V, 0.15A, SI                 |  |
| D....2   | 50.04.0125   | IN 4448  | 75V, 0.15A, SI                 |  |
| D....3   | 50.04.0125   | IN 4448  | 75V, 0.15A, SI                 |  |
| D....4   | 50.04.0125   | IN 4448  | 75V, 0.15A, SI                 |  |
| D....5   | 50.04.0125   | IN 4448  | 75V, 0.15A, SI                 |  |
| D....6   | 50.04.0125   | IN 4448  | 75V, 0.15A, SI                 |  |
| D....7   | 50.04.0125   | IN 4448  | 75V, 0.15A, SI                 |  |
| D....8   | 50.04.0125   | IN 4448  | 75V, 0.15A, SI                 |  |
| D....9   | 50.04.0125   | IN 4448  | 75V, 0.15A, SI                 |  |
| D....10  | 50.04.0125   | IN 4448  | 75V, 0.15A, SI                 |  |
| D....11  | 50.04.0125   | IN 4448  | 75V, 0.15A, SI                 |  |
| DL...1   | 50.04.2804   | HMP-2400 | LED LIGHT BARS, 2*yel          |  |
| DL...2   | 50.04.2804   | HMP-2400 | LED LIGHT BARS, 2*yel          |  |
| DL...3   | 50.04.2804   | HMP-2400 | LED LIGHT BARS, 2*yel          |  |
| DL...4   | 50.04.2801   | HMP-2450 | LED LIGHT BARS, 4*yel          |  |
| DL...5   | 50.04.2801   | HMP-2450 | LED LIGHT BARS, 4*yel          |  |
| DL...6   | 50.04.2801   | HMP-2450 | LED LIGHT BARS, 4*yel          |  |
| DL...7   | 50.04.2801   | HMP-2450 | LED LIGHT BARS, 4*yel          |  |
| DL...8   | 50.04.2153   | HMP-2350 | LED LIGHT BARS, 4*red          |  |
| DL...9   | 50.04.2804   | HMP-2400 | LED LIGHT BARS, 2*yel          |  |
| DL...10  | 50.04.2804   | HMP-2400 | LED LIGHT BARS, 2*yel          |  |
| DL...11  | 50.04.2804   | HMP-2400 | LED LIGHT BARS, 2*yel          |  |
| DLZ...1  | 73.01.0134   |          | 7-SEG.-DISPLAY LED, grn, 7.6mm |  |
| DLZ...2  | 73.01.0134   |          | 7-SEG.-DISPLAY LED, grn, 7.6mm |  |
| DLZ...3  | 73.01.0134   |          | 7-SEG.-DISPLAY LED, grn, 7.6mm |  |
| DLZ...4  | 73.01.0134   |          | 7-SEG.-DISPLAY LED, grn, 7.6mm |  |
| DLZ...5  | 73.01.0134   |          | 7-SEG.-DISPLAY LED, grn, 7.6mm |  |
| DLZ...6  | 73.01.0134   |          | 7-SEG.-DISPLAY LED, grn, 7.6mm |  |
| DLZ...7  | 73.01.0134   |          | 7-SEG.-DISPLAY LED, grn, 7.6mm |  |
| DLZ...8  | 73.01.0134   |          | 7-SEG.-DISPLAY LED, grn, 7.6mm |  |
| DLZ...9  | 73.01.0134   |          | 7-SEG.-DISPLAY LED, grn, 7.6mm |  |
| DLZ...10 | 73.01.0134   |          | 7-SEG.-DISPLAY LED, grn, 7.6mm |  |
| DLZ...11 | 73.01.0134   |          | 7-SEG.-DISPLAY LED, grn, 7.6mm |  |
| MP...1   | 53.03.0220   | 174 pcs  | XDL single, 1 pce = 1 pin      |  |
| MP...2   | 1.863.767.01 | 1 pce    | NR.-Label, 5 * 20              |  |
| MP...3   | 1.863.767.11 | 1 pce    | TD KEYBD & DISPLAY PRINT PCB   |  |
| P....8   | 54.11.2501   |          | EU-QK 2 * 16 ACTION            |  |
| P....9   | 54.11.2502   |          | EU-Q 2 * 32 ACTION             |  |
| R....1   | 57.11.3000   | 0        | 0207, MF                       |  |
| R....2   | 57.11.3000   | 0        | 0207, MF                       |  |
| R....3   | 57.11.3000   | 0        | 0207, MF                       |  |
| R....4   | 57.11.3391   | 390      | 1%, 0207, MF                   |  |
| R....5   | 57.11.3391   | 390      | 1%, 0207, MF                   |  |
| R....6   | 57.11.3391   | 390      | 1%, 0207, MF                   |  |
| R....7   | 57.11.3391   | 390      | 1%, 0207, MF                   |  |
| R....8   | 57.11.3391   | 390      | 1%, 0207, MF                   |  |
| R....9   | 57.11.3391   | 390      | 1%, 0207, MF                   |  |
| R....10  | 57.11.3391   | 390      | 1%, 0207, MF                   |  |
| R....11  | 57.11.3391   | 390      | 1%, 0207, MF                   |  |
| R....12  | 57.11.3391   | 390      | 1%, 0207, MF                   |  |
| R....13  | 57.11.3391   | 390      | 1%, 0207, MF                   |  |
| R....14  | 57.11.3000   | 0        | 0207, MF                       |  |
| R....15  | 57.11.3000   | 0        | 0207, MF                       |  |
| R....16  | 57.11.3000   | 0        | 0207, MF                       |  |
| R....20  | 57.11.3220   | 22       | 1%, 0207, MF                   |  |
| R....21  | 57.11.3220   | 22       | 1%, 0207, MF                   |  |
| R....22  | 57.11.3220   | 22       | 1%, 0207, MF                   |  |
| R....23  | 57.11.3220   | 22       | 1%, 0207, MF                   |  |
| R....24  | 57.11.3220   | 22       | 1%, 0207, MF                   |  |
| R....25  | 57.11.3220   | 22       | 1%, 0207, MF                   |  |
| R....26  | 57.11.3220   | 22       | 1%, 0207, MF                   |  |
| R....27  | 57.11.3220   | 22       | 1%, 0207, MF                   |  |
| S....1   | 55.15.0531   | 1*A      | Push button, Impuls            |  |
| S....2   | 55.15.0531   | 1*A      | Push button, Impuls            |  |
| S....3   | 55.15.0531   | 1*A      | Push button, Impuls            |  |
| S....4   | 55.15.0531   | 1*A      | Push button, Impuls            |  |
| S....5   | 55.15.0531   | 1*A      | Push button, Impuls            |  |
| S....6   | 55.15.0531   | 1*A      | Push button, Impuls            |  |
| S....7   | 55.15.0531   | 1*A      | Push button, Impuls            |  |
| S....8   | 55.15.0531   | 1*A      | Push button, Impuls            |  |
| S....9   | 55.15.0531   | 1*A      | Push button, Impuls            |  |
| S....10  | 55.15.0531   | 1*A      | Push button, Impuls            |  |
| S....11  | 55.15.0531   | 1*A      | Push button, Impuls            |  |

1.863.767.00 TD KEYBOARD & DISPLAY PCB GP 93/08/1700

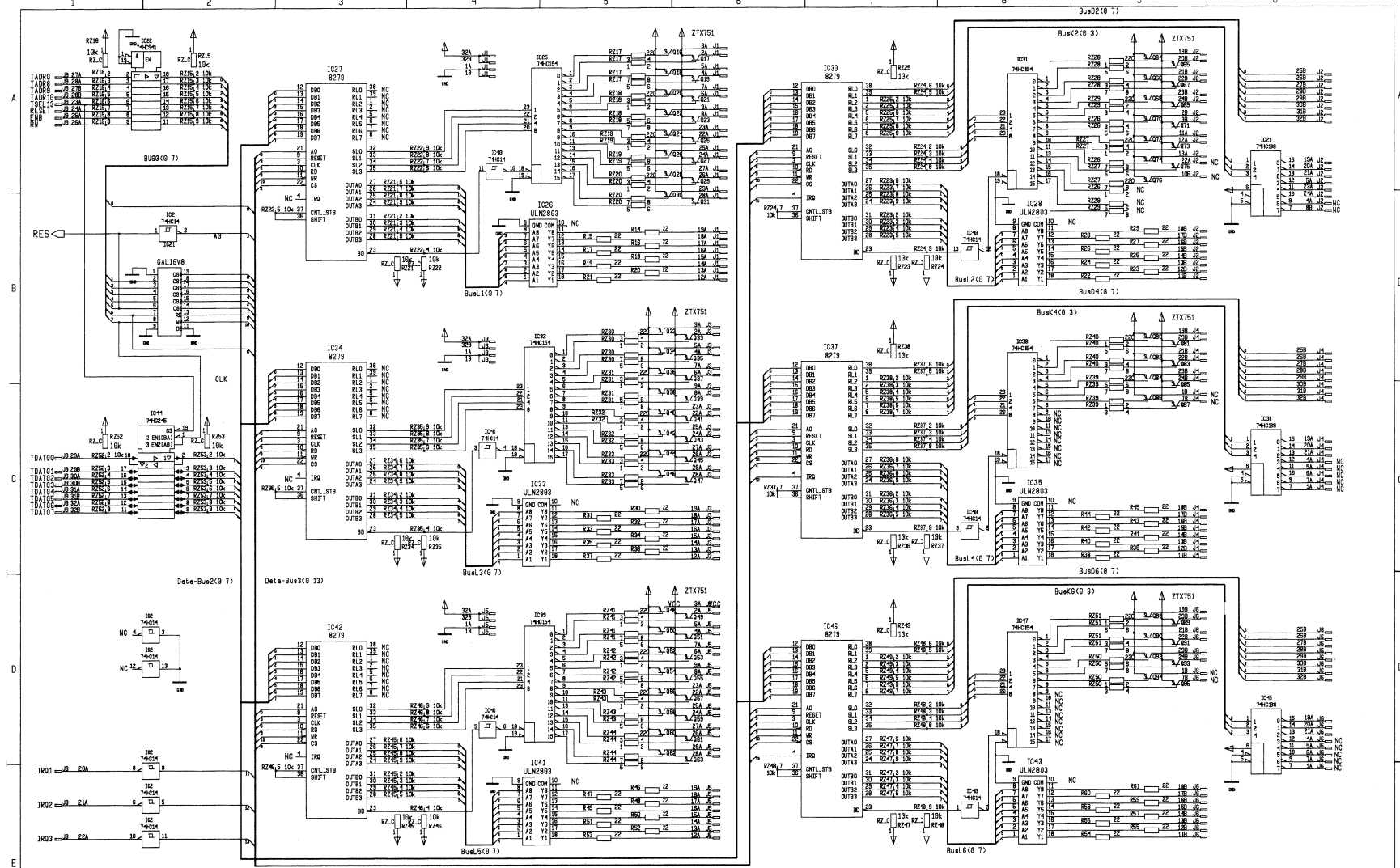


TD-CONTROL & DISPLAY DRIVER 1.863.768.20



|                                       |               |   |      |              |            |
|---------------------------------------|---------------|---|------|--------------|------------|
| ① 30 09 93/PER                        | ① 18 11 93/ZT | ② | D827 | ○            | PAGE 1 / 2 |
| STUDER TD-CONTROL & DISPLAY DRIVER SC |               |   |      | 1.863.768.20 |            |

TD-CONTROL & DISPLAY DRIVER 1.863.768.20

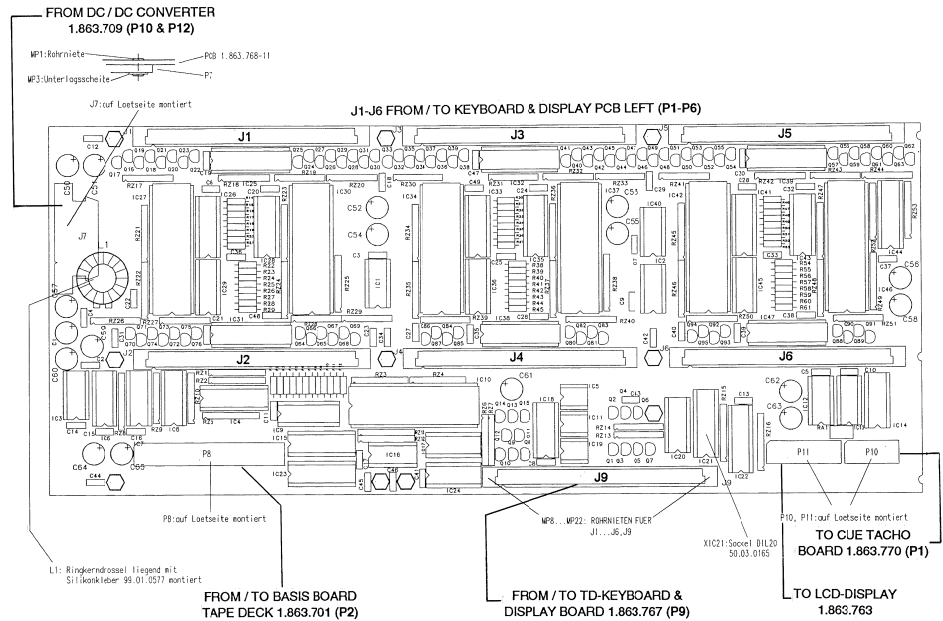


|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| C30 | C31 | C32 | C33 | C34 | C35 | C36 | C37 | C38 | C39 | C40 | C41 | C42 | C43 | C44 | C45 | C46 | C47 | C48 | C49 | C50 | C51 | C52 |
| 56k | 56k | 56k | 56k | 56k | 56k | 56k | 56k | 56k | 56k | 56k | 56k | 56k | 56k | 56k | 56k | 56k | 56k | 56k | 56k | 56k | 56k | 56k |

# STUDER D827 MCH



## TD-CONTROL & DISPLAY DRIVER 1.863.768.20



**STUDER**  
REGENSDORF

**TD-CONTROL & DISPLAY DRIVER**

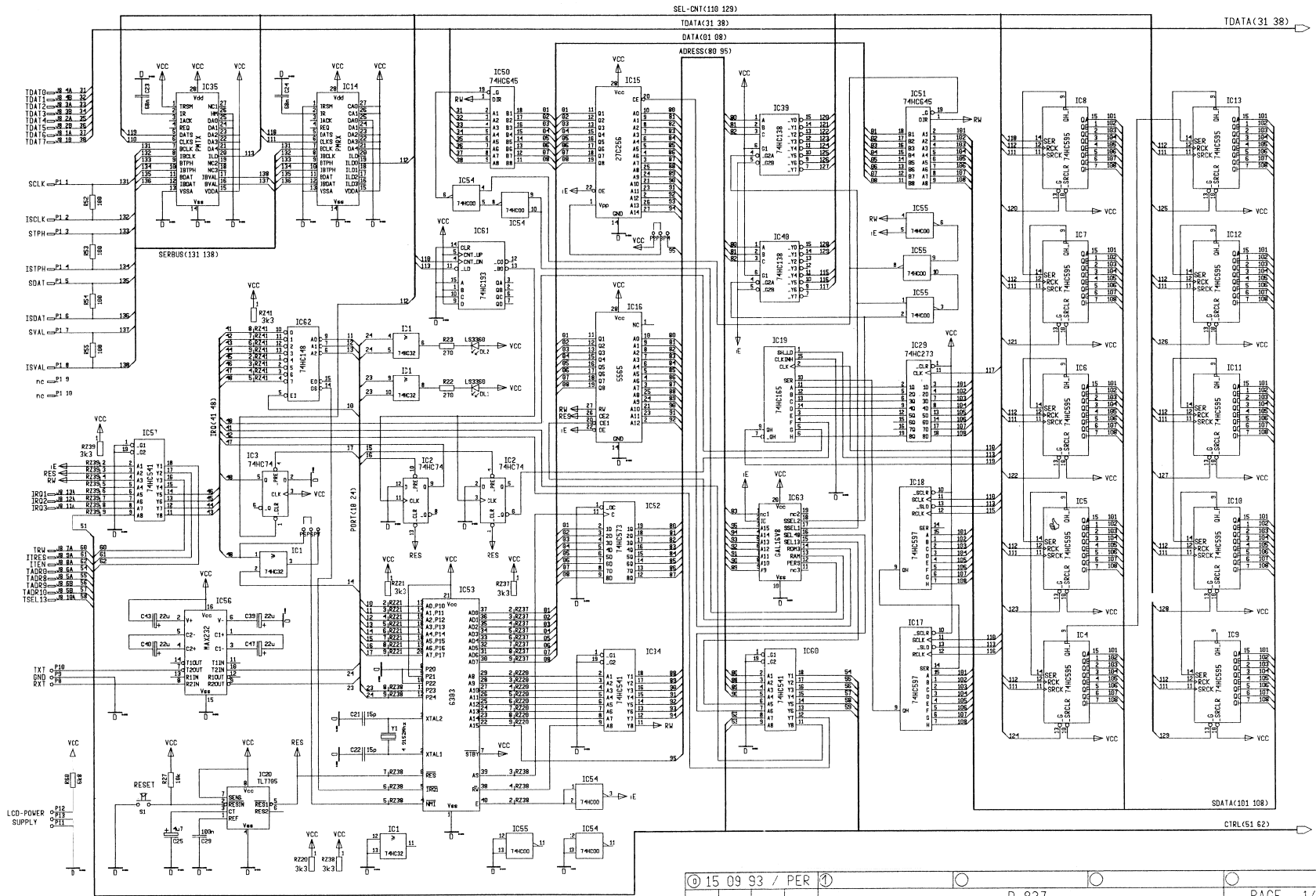
Part No.: **1.863.768.20**

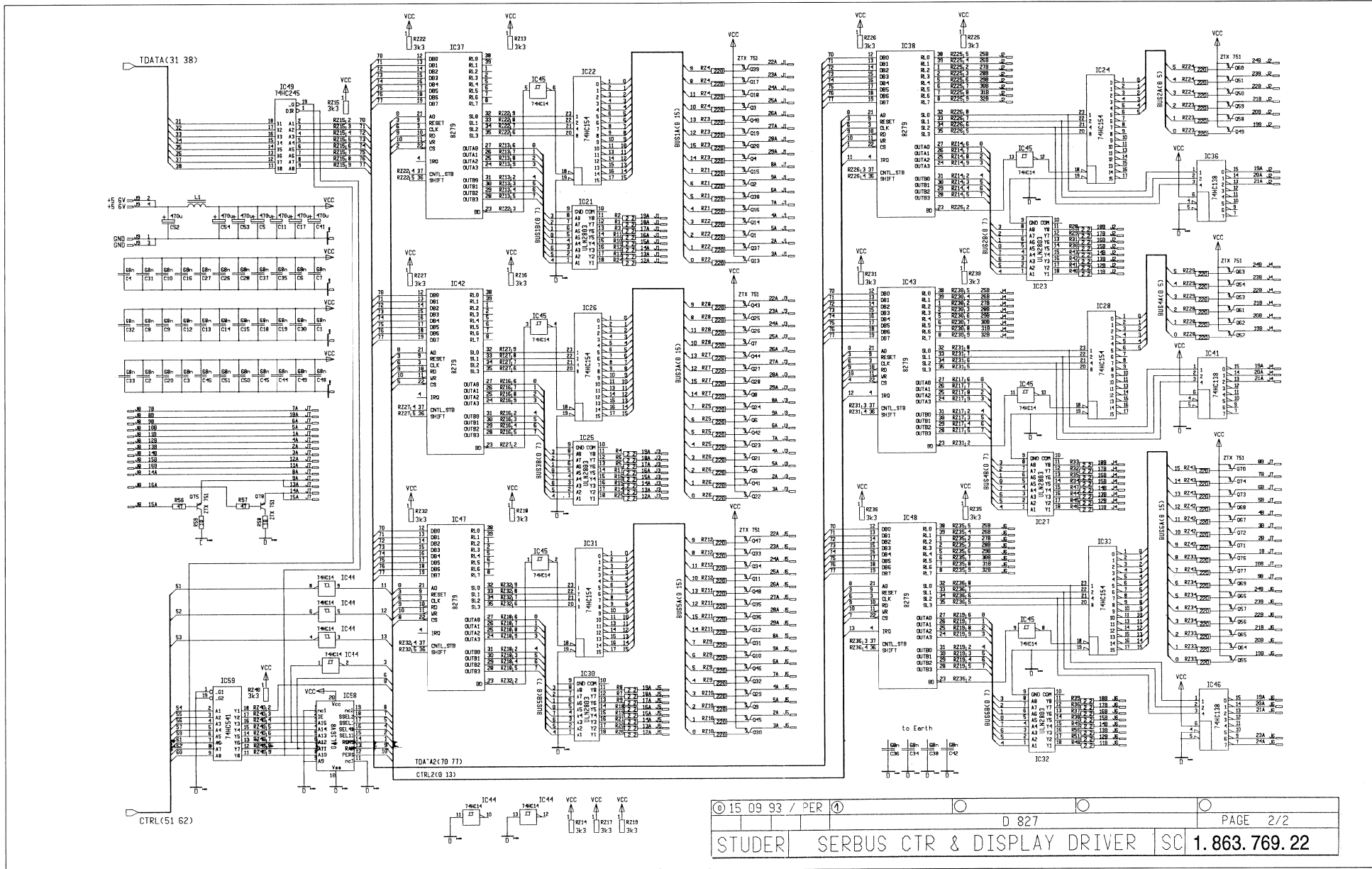
| Idx. | Pos. | Part No.   | Qty. | Type/Val. | Description   | Idx. | Pos.  | Part No.     | Qty.    | Type/Val.                      | Description |
|------|------|------------|------|-----------|---------------|------|-------|--------------|---------|--------------------------------|-------------|
| 0    | C 1  | 59.22.3221 | 220u | EL        | 10V, 20%, RM5 | 0    | IC 20 | 50.06.0165   | 74LS156 | IC SN 74 LS 156 N TTL          |             |
| 0    | C 2  | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | IC 21 | 50.16.0100   | PLD16V8 | 16 V 8 D - 25 LP               |             |
| 0    | C 3  | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | IC 22 | 50.17.1541   | 74HC541 | IC ... 74 HC 541 ... A         |             |
| 0    | C 4  | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | IC 23 | 50.06.0699   | 74LS699 | IC SN 74 LS 699 N              |             |
| 0    | C 5  | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | IC 24 | 50.17.1138   | 74HC138 | IC ... 74 HC 138 ... A         |             |
| 0    | C 6  | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | IC 25 | 50.17.1154   | 74HC154 | 4-to16 Line driver, DIP 24-300 |             |
| 0    | C 7  | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | IC 26 | 50.15.0119   | ULN2803 | Octal peripheral Driver, o.c.  |             |
| 0    | C 8  | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 3    | IC 27 | 50.16.0703   | 8279    | IC TMP 82 C 79 P-2             |             |
| 0    | C 9  | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | IC 28 | 50.15.0119   | ULN2803 | Octal peripheral Driver, o.c.  |             |
| 0    | C 10 | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | IC 29 | 50.17.1138   | 74HC138 | IC ... 74 HC 138 ... A         |             |
| 0    | C 11 | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | IC 30 | 50.16.0111   | 8279    | IC IP 8279-5, ID 8279-5,       |             |
| 0    | C 12 | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | IC 31 | 50.17.1154   | 74HC154 | 4-to16 Line driver, DIP 24-300 |             |
| 0    | C 13 | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | IC 32 | 50.17.1154   | 74HC154 | 4-to16 Line driver, DIP 24-300 |             |
| 0    | C 14 | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | IC 33 | 50.15.0119   | ULN2803 | Octal peripheral Driver, o.c.  |             |
| 0    | C 15 | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 3    | IC 34 | 50.16.0703   | 8279    | IC TMP 82 C 79 P-2             |             |
| 0    | C 16 | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | IC 35 | 50.15.0119   | ULN2803 | Octal peripheral Driver, o.c.  |             |
| 0    | C 17 | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | IC 36 | 50.17.1138   | 74HC138 | IC ... 74 HC 138 ... A         |             |
| 0    | C 18 | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | IC 37 | 50.16.0111   | 8279    | IC IP 8279-5, ID 8279-5,       |             |
| 0    | C 19 | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | IC 38 | 50.17.1154   | 74HC154 | 4-to16 Line driver, DIP 24-300 |             |
| 0    | C 20 | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | IC 39 | 50.17.1154   | 74HC154 | 4-to16 Line driver, DIP 24-300 |             |
| 0    | C 21 | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | IC 40 | 50.17.1014   | 74HC14  | IC ... 74 HC 14 ... A          |             |
| 0    | C 22 | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | IC 41 | 50.15.0119   | ULN2803 | Octal peripheral Driver, o.c.  |             |
| 0    | C 23 | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 3    | IC 42 | 50.16.0703   | 8279    | IC TMP 82 C 79 P-2             |             |
| 0    | C 24 | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | IC 43 | 50.15.0119   | ULN2803 | Octal peripheral Driver, o.c.  |             |
| 0    | C 25 | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | IC 44 | 50.17.1645   | 74HC845 | IC ... 74 HC 248/845 ... A     |             |
| 0    | C 26 | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | IC 45 | 50.17.1138   | 74HC138 | IC ... 74 HC 138 ... A         |             |
| 0    | C 27 | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | IC 46 | 50.16.0111   | 8279    | IC IP 8279-5, ID 8279-5,       |             |
| 0    | C 28 | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | IC 47 | 50.17.1154   | 74HC154 | 4-to16 Line driver, DIP 24-300 |             |
| 0    | C 29 | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | J 1   | 54.11.2005   | 64-P    | J EU-B 2 * 32                  |             |
| 0    | C 30 | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | J 2   | 54.11.2005   | 64-P    | J EU-B 2 * 32                  |             |
| 0    | C 31 | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | J 3   | 54.11.2005   | 64-P    | J EU-B 2 * 32                  |             |
| 0    | C 32 | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | J 4   | 54.11.2005   | 64-P    | J EU-B 2 * 32                  |             |
| 0    | C 33 | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | J 5   | 54.11.2005   | 64-P    | J EU-B 2 * 32                  |             |
| 0    | C 34 | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | J 6   | 54.11.2005   | 64-P    | J EU-B 2 * 32                  |             |
| 0    | C 35 | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | J 7   | 54.25.0054   | 4p      | Buchse, 16A, winkel, PCB       |             |
| 0    | C 36 | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | J 9   | 54.11.2005   | 64-P    | J EU-B 2 * 32                  |             |
| 0    | C 37 | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | L 1   | 62.03.0030   | 110uH   | 3A Toroid Choke                |             |
| 0    | C 38 | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | MP 1  | 28.21.1480   | mp      | ROHRNIETE, D 3.1* 6.5          |             |
| 0    | C 39 | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | MP 2  | 28.21.1480   | mp      | ROHRNIETE, D 3.1* 6.5          |             |
| 0    | C 40 | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | MP 3  | 23.01.2032   | mp      | U-SCHEIBE D 3/27 * 0.5         |             |
| 0    | C 41 | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | MP 4  | 23.01.2032   | mp      | U-SCHEIBE D 3/27 * 0.5         |             |
| 0    | C 42 | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | MP 5  | 1.863.768.01 | mp      | NR - ETIKETTE 5 * 20           |             |
| 0    | C 43 | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | MP 6  | 1.101.001.20 | mp      | TEXT-ETIK 5*20 HARDWARE *20    |             |
| 0    | C 44 | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | MP 7  | 43.01.0158   | mp      | ESSE-WARNSCHILD                |             |
| 0    | C 45 | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | MP 8  | 28.21.2308   | mp      | ROHRNIETE,DIN D 2.5* 6.0       |             |
| 0    | C 46 | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | MP 9  | 28.21.2308   | mp      | ROHRNIETE,DIN D 2.5* 6.0       |             |
| 0    | C 47 | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | MP 10 | 28.21.2308   | mp      | ROHRNIETE,DIN D 2.5* 6.0       |             |
| 0    | C 48 | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | MP 11 | 28.21.2308   | mp      | ROHRNIETE,DIN D 2.5* 6.0       |             |
| 0    | C 49 | 59.06.0683 | 68n  | PETP      | 63V, 10%, RM5 | 0    | MP 12 | 28.21.2308   | mp      | ROHRNIETE,DIN D 2.5* 6.0       |             |
| 0    | C 50 | 59.22.3221 | 220u | EL        | 10V, 20%, RM5 | 0    | MP 13 | 28.21.2308   | mp      | ROHRNIETE,DIN D 2.5* 6.0       |             |
| 0    | C 51 | 59.22.3221 | 220u | EL        | 10V, 20%, RM5 | 0    | MP 14 | 28.21.2308   | mp      | ROHRNIETE,DIN D 2.5* 6.0       |             |
| 0    | C 52 | 59.22.3221 | 220u | EL        | 10V, 20%, RM5 | 0    | MP 15 | 28.21.2308   | mp      | ROHRNIETE,DIN D 2.5* 6.0       |             |
| 0    | C 53 | 59.22.3221 | 220u | EL        | 10V, 20%, RM5 | 0    | MP 16 | 28.21.2308   | mp      | ROHRNIETE,DIN D 2.5* 6.0       |             |
| 0    | C 54 | 59.22.3221 | 220u | EL        | 10V, 20%, RM5 | 0    | MP 17 | 28.21.2308   | mp      | ROHRNIETE,DIN D 2.5* 6.0       |             |
| 0    | C 55 | 59.22.3221 | 220u | EL        | 10V, 20%, RM5 | 0    | MP 18 | 28.21.2308   | mp      | ROHRNIETE,DIN D 2.5* 6.0       |             |
| 0    | C 56 | 59.22.3221 | 220u | EL        | 10V, 20%, RM5 | 0    | MP 19 | 28.21.2308   | mp      | ROHRNIETE,DIN D 2.5* 6.0       |             |
| 0    | C 57 | 59.22.3221 | 220u | EL        | 10V, 20%, RM5 | 0    | MP 20 | 28.21.2308   | mp      | ROHRNIETE,DIN D 2.5* 6.0       |             |
| 0    | C 58 | 59.22.3221 | 220u | EL        | 10V, 20%, RM5 | 0    | MP 21 | 28.21.2308   | mp      | ROHRNIETE,DIN D 2.5* 6.0       |             |
| 0    | C 59 | 59.22.3221 | 220u | EL        | 10V, 20%, RM5 | 0    | P 8   | 54.14.2075   | 40p     | 120° Au, winkel, ohne Verrieg  |             |
| 0    | C 60 | 59.22.3221 | 220u | EL        | 10V, 20%, RM5 | 0    | P 10  | 54.14.2071   | 10p     | 120° Au, winkel, ohne Verrieg  |             |
| 0    | C 61 | 59.22.3221 | 220u | EL        | 10V, 20%, RM5 | 0    | P 11  | 54.14.2072   | 16p     | 120° Au, winkel, ohne Verrieg  |             |
| 0    | C 62 | 59.22.3221 | 220u | EL        | 10V, 20%, RM5 | 0    | PCB 1 | 1.863.768.11 |         | TD-CTR.&DISPL. DRIVER PCB /M   |             |
| 0    | C 63 | 59.22.3221 | 220u | EL        | 10V, 20%, RM5 | 0    | Q 1   | 50.03.0352   | ZTX751S | ZTX 751 S                      |             |
| 0    | C 64 | 59.22.3221 | 220u | EL        | 10V, 20%, RM5 | 0    | Q 2   | 50.03.0352   | ZTX751S | ZTX 751 S                      |             |
| 0    | C 65 | 59.22.3221 | 220u | EL        | 10V, 20%, RM5 | 0    | Q 3   | 50.03.0352   | ZTX751S | ZTX 751 S                      |             |
| 0    | C 66 | 59.22.3221 | 220u | EL        | 10V, 20%, RM5 | 0    | Q 4   | 50.03.0352   | ZTX751S | ZTX 751 S                      |             |
| 0    | C 67 | 59.22.3221 | 220u | EL        | 10V, 20%, RM5 | 0    | Q 5   | 50.03.0352   | ZTX751S | ZTX 751 S                      |             |
| 0    | C 68 | 59.22.3221 | 220u | EL        | 10V, 20%, RM5 | 0    | Q 6   | 50.03.0352   | ZTX751S | ZTX 751 S                      |             |
| 0    | C 69 | 59.22.3221 | 220u | EL        | 10V, 20%, RM5 | 0    | Q 7   | 50.03.0352   | ZTX751S | ZTX 751 S                      |             |
| 0    | C 70 | 59.22.3221 | 220u | EL        | 10V, 20%, RM5 | 0    | Q 8   | 50.03.0352   | ZTX751S | ZTX 751 S                      |             |
| 0    | C 71 | 59.22.3221 | 220u | EL        | 10V, 20%, RM5 | 0    | Q 9   | 50.03.0352   | ZTX751S | ZTX 751 S                      |             |
| 0    | C 72 | 59.22.3221 | 220u | EL        | 10V, 20%, RM5 | 0    | Q 10  | 50.03.0352   | ZTX751S | ZTX 751 S                      |             |
| 0    | C 73 | 59.22.3221 | 220u | EL        | 10V, 20%, RM5 | 0    | Q 11  | 50.03.0352   | ZTX751S | ZTX 751 S                      |             |
| 0    | C 74 | 59.22.3221 | 220u | EL        | 10V, 20%, RM5 | 0    | Q 12  | 50.03.0352   | ZTX751S | ZTX 751 S                      |             |
| 0    | C 75 | 59.22.3221 | 220u | EL        | 10V, 20%, RM5 | 0    | Q 13  | 50.03.0352   | ZTX751S | ZTX 751 S                      |             |
| 0    | C 76 | 59.22.3221 | 220u | EL        | 10V, 20%, RM5 | 0    | Q 14  | 50.03.0352   | ZTX751S | ZTX 751 S                      |             |
| 0    | C 77 | 59.22.3221 | 220u | EL        | 10V, 20%, RM5 | 0    | Q 15  | 50.03.0352   | ZTX751S | ZTX 751 S                      |             |
| 0    | C 78 | 59.22.3221 | 220u | EL        | 10V, 20%, RM5 | 0    | Q 16  | 50.03.0352   | ZTX751S | ZTX 751 S                      |             |
| 0    | C 79 | 59.22.3221 | 220u | EL        | 10V, 20%, RM5 | 0    | Q 17  | 50.03.0352   | ZTX751S | ZTX 751 S                      |             |





SERBUS CTR & DISPLAY DRIVER 1.863.769.22

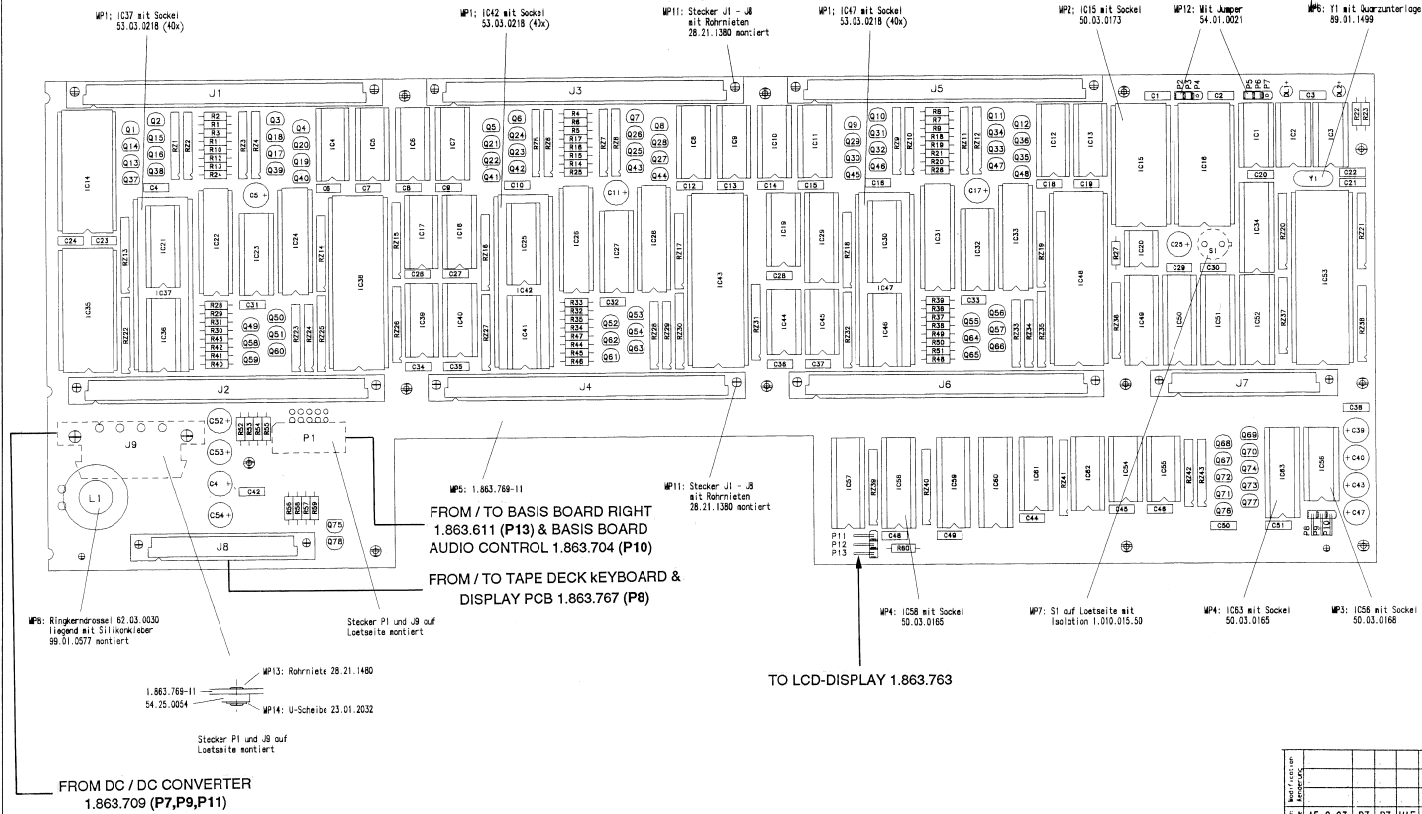






SERBUS CTR & DISPLAY DRIVER 1.863.769.22

J1-J7 FROM / TO KEYBOARD & DISPLAY PCB RIGHT  
1.863.766 (P1-P7)



| Idx. | Pos.  | Part No.   | Qty.       | Type/Val.                       | Description |
|------|-------|------------|------------|---------------------------------|-------------|
| 0    | C 1   | 59.06.0683 | 68n        | PETP, 63V, 10%, RMS             |             |
| 0    | C 2   | 59.06.0683 | 68n        | PETP, 63V, 10%, RMS             |             |
| 0    | C 3   | 59.06.0683 | 68n        | PETP, 63V, 10%, RMS             |             |
| 0    | C 4   | 59.06.0683 | 68n        | PETP, 63V, 10%, RMS             |             |
| 0    | C 5   | 59.22.2471 | 470u       | EL 6.3V, 20%, RMS               |             |
| 0    | C 6   | 59.06.0683 | 68n        | PETP, 63V, 10%, RMS             |             |
| 0    | C 7   | 59.06.0683 | 68n        | PETP, 63V, 10%, RMS             |             |
| 0    | C 8   | 59.06.0683 | 68n        | PETP, 63V, 10%, RMS             |             |
| 0    | C 9   | 59.06.0683 | 68n        | PETP, 63V, 10%, RMS             |             |
| 0    | C 10  | 59.06.0683 | 68n        | PETP, 63V, 10%, RMS             |             |
| 0    | C 11  | 59.22.2471 | 470u       | EL 6.3V, 20%, RMS               |             |
| 0    | C 12  | 59.06.0683 | 68n        | PETP, 63V, 10%, RMS             |             |
| 0    | C 13  | 59.06.0683 | 68n        | PETP, 63V, 10%, RMS             |             |
| 0    | C 14  | 59.06.0683 | 68n        | PETP, 63V, 10%, RMS             |             |
| 0    | C 15  | 59.06.0683 | 68n        | PETP, 63V, 10%, RMS             |             |
| 0    | C 16  | 59.06.0683 | 68n        | PETP, 63V, 10%, RMS             |             |
| 0    | C 17  | 59.22.2471 | 470u       | EL 6.3V, 20%, RMS               |             |
| 0    | C 18  | 59.06.0683 | 68n        | PETP, 63V, 10%, RMS             |             |
| 0    | C 19  | 59.06.0683 | 68n        | PETP, 63V, 10%, RMS             |             |
| 0    | C 20  | 59.06.0683 | 68n        | PETP, 63V, 10%, RMS             |             |
| 0    | C 21  | 59.34.1150 | 15p        | CER 63V, 5%, NP 0               |             |
| 0    | C 22  | 59.34.1150 | 15p        | CER 63V, 5%, NP 0               |             |
| 0    | C 23  | 59.06.0683 | 68n        | PETP, 63V, 10%, RMS             |             |
| 0    | C 24  | 59.06.0683 | 68n        | PETP, 63V, 10%, RMS             |             |
| 0    | C 25  | 59.22.2471 | 470u       | EL 6.3V, 20%, RMS               |             |
| 0    | C 26  | 59.06.0683 | 68n        | PETP, 63V, 10%, RMS             |             |
| 0    | C 27  | 59.06.0683 | 68n        | PETP, 63V, 10%, RMS             |             |
| 0    | C 28  | 59.06.0683 | 68n        | PETP, 63V, 10%, RMS             |             |
| 0    | C 29  | 59.06.0683 | 68n        | PETP, 63V, 10%, RMS             |             |
| 0    | C 30  | 59.06.0683 | 68n        | PETP, 63V, 10%, RMS             |             |
| 0    | C 31  | 59.06.0683 | 68n        | PETP, 63V, 10%, RMS             |             |
| 0    | C 32  | 59.06.0683 | 68n        | PETP, 63V, 10%, RMS             |             |
| 0    | C 33  | 59.06.0683 | 68n        | PETP, 63V, 10%, RMS             |             |
| 0    | C 34  | 59.06.0683 | 68n        | PETP, 63V, 10%, RMS             |             |
| 0    | C 35  | 59.06.0683 | 68n        | PETP, 63V, 10%, RMS             |             |
| 0    | C 36  | 59.06.0683 | 68n        | PETP, 63V, 10%, RMS             |             |
| 0    | C 37  | 59.06.0683 | 68n        | PETP, 63V, 10%, RMS             |             |
| 0    | C 38  | 59.06.0683 | 68n        | PETP, 63V, 10%, RMS             |             |
| 0    | C 39  | 59.22.6220 | 22u        | EL 35V, 20%, RMS                |             |
| 0    | C 40  | 59.22.6220 | 22u        | EL 35V, 20%, RMS                |             |
| 0    | C 41  | 59.22.2471 | 470u       | EL 6.3V, 20%, RMS               |             |
| 0    | C 42  | 59.06.0683 | 68n        | PETP, 63V, 10%, RMS             |             |
| 0    | C 43  | 59.22.6220 | 22u        | EL 35V, 20%, RMS                |             |
| 0    | C 44  | 59.06.0683 | 68n        | PETP, 63V, 10%, RMS             |             |
| 0    | C 45  | 59.06.0683 | 68n        | PETP, 63V, 10%, RMS             |             |
| 0    | C 46  | 59.06.0683 | 68n        | PETP, 63V, 10%, RMS             |             |
| 0    | C 47  | 59.22.6220 | 22u        | EL 35V, 20%, RMS                |             |
| 0    | C 48  | 59.06.0683 | 68n        | PETP, 63V, 10%, RMS             |             |
| 0    | C 49  | 59.06.0683 | 68n        | PETP, 63V, 10%, RMS             |             |
| 0    | C 50  | 59.06.0683 | 68n        | PETP, 63V, 10%, RMS             |             |
| 0    | C 51  | 59.06.0683 | 68n        | PETP, 63V, 10%, RMS             |             |
| 0    | C 52  | 59.22.2471 | 470u       | EL 6.3V, 20%, RMS               |             |
| 0    | C 53  | 59.22.2471 | 470u       | EL 6.3V, 20%, RMS               |             |
| 0    | C 54  | 59.22.2471 | 470u       | EL 6.3V, 20%, RMS               |             |
| 0    | DL 1  | 50.04.2129 | LS3360     | DL LS 3360, RT DIFF             |             |
| 0    | DL 2  | 50.04.2129 | LS3360     | DL LS 3360, RT DIFF             |             |
| 0    | IC 1  | 50.17.1032 | 74HC32     | IC ... 74 HC 32, A              |             |
| 0    | IC 2  | 50.17.1074 | 74HC74     | IC ... 74 HC 74, A              |             |
| 0    | IC 3  | 50.17.1074 | 74HC74     | IC ... 74 HC 74, A              |             |
| 0    | IC 4  | 50.17.1595 | 74HC595    | IC ... 74 HC 595, A             |             |
| 0    | IC 5  | 50.17.1595 | 74HC595    | IC ... 74 HC 595, A             |             |
| 0    | IC 6  | 50.17.1595 | 74HC595    | IC ... 74 HC 595, A             |             |
| 0    | IC 7  | 50.17.1595 | 74HC595    | IC ... 74 HC 595, A             |             |
| 0    | IC 8  | 50.17.1595 | 74HC595    | IC ... 74 HC 595, A             |             |
| 0    | IC 9  | 50.17.1595 | 74HC595    | IC ... 74 HC 595, A             |             |
| 0    | IC 10 | 50.17.1595 | 74HC595    | IC ... 74 HC 595, A             |             |
| 0    | IC 11 | 50.17.1595 | 74HC595    | IC ... 74 HC 595, A             |             |
| 0    | IC 12 | 50.17.1595 | 74HC595    | IC ... 74 HC 595, A             |             |
| 0    | IC 13 | 50.17.1595 | 74HC595    | IC ... 74 HC 595, A             |             |
| 0    | IC 14 | 50.50.0010 | PORTMASTER | IC PORTMASTER (2.861.710.00)    |             |
| 0    | IC 15 | 50.14.2004 | 27C256     | IC 27 C 256 - 25, A             |             |
| 0    | IC 16 | 50.14.0133 | 5965       | IC HM 5964P-15, A               |             |
| 0    | IC 17 | 50.17.1597 | 74HC597    | IC ... 74 HC 597, A             |             |
| 0    | IC 18 | 50.17.1597 | 74HC597    | IC ... 74 HC 597, A             |             |
| 0    | IC 19 | 50.17.1165 | 74HC165    | IC ... 74 HC 165, A             |             |
| 0    | IC 20 | 50.11.0154 | MAX690     | IC MAX 690A CPA, A              |             |
| 0    | IC 21 | 50.15.0119 | ULN2803    | Octal peripheral Driver, o.c.   |             |
| 0    | IC 22 | 50.17.1154 | 74HC164    | 4-to-16 Line driver, DIP 24-300 |             |
| 0    | IC 23 | 50.15.0119 | ULN2803    | Octal peripheral Driver, o.c.   |             |
| 0    | IC 24 | 50.17.1154 | 74HC164    | 4-to-16 Line driver, DIP 24-300 |             |
| 0    | IC 25 | 50.15.0119 | ULN2803    | Octal peripheral Driver, o.c.   |             |
| 0    | IC 26 | 50.17.1154 | 74HC164    | 4-to-16 Line driver, DIP 24-300 |             |
| 0    | IC 27 | 50.15.0119 | ULN2803    | Octal peripheral Driver, o.c.   |             |
| 0    | IC 28 | 50.17.1154 | 74HC164    | 4-to-16 Line driver, DIP 24-300 |             |
| 0    | IC 29 | 50.17.1273 | 74HC273    | IC ... 74 HC 273, A             |             |

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|         |    |    |    |    |     |    |
|---------|----|----|----|----|-----|----|
| 15      | 9  | 93 | PZ | PZ | HWE |    |
| Cap. 10 | 10 | 10 | 10 | 10 | 10  | 10 |
| Cap. 10 | 10 | 10 | 10 | 10 | 10  | 10 |



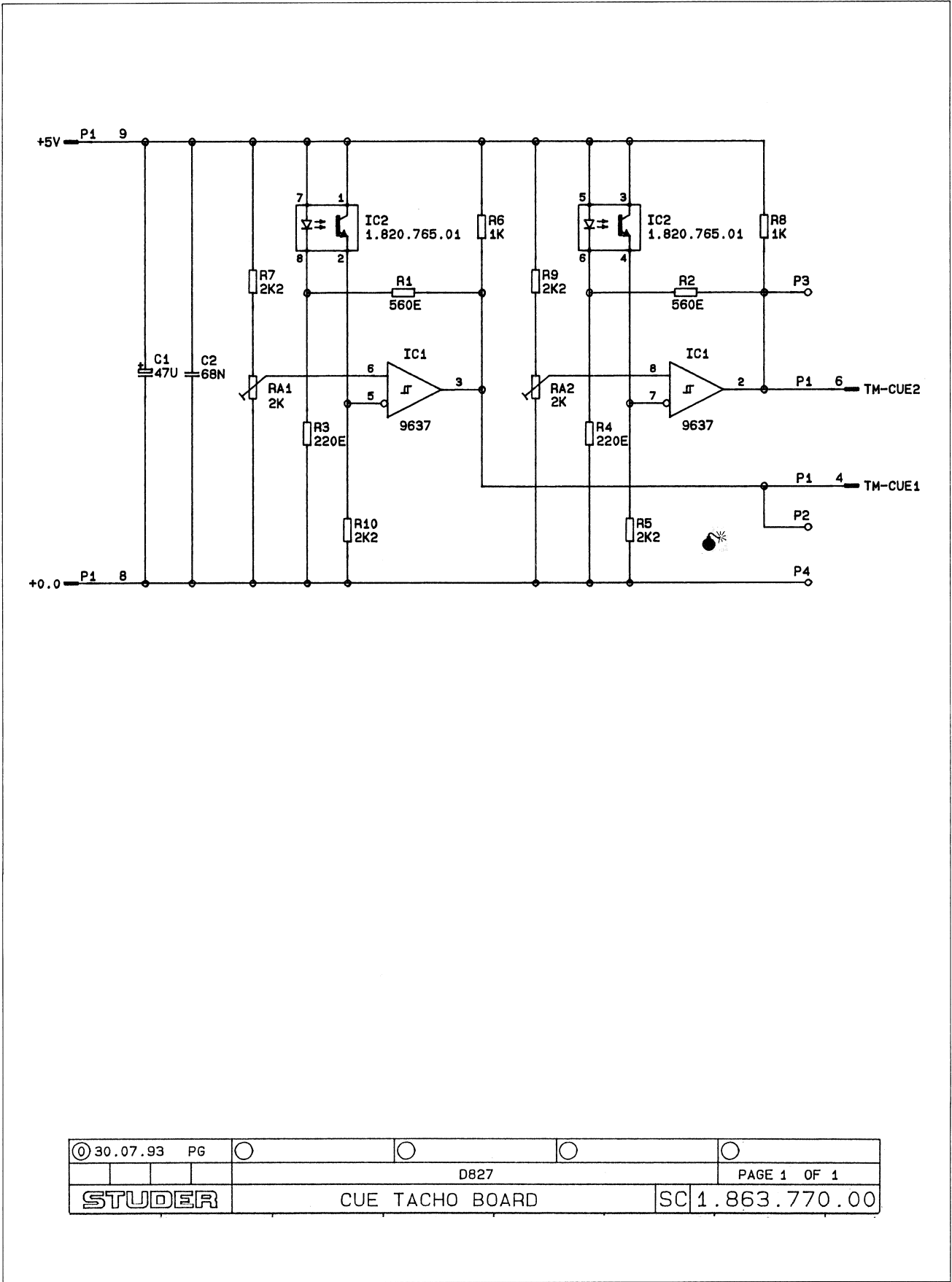
STUDER D827 MCH



SERBUS CTR & DISPLAY DRIVER 1.863.769.22

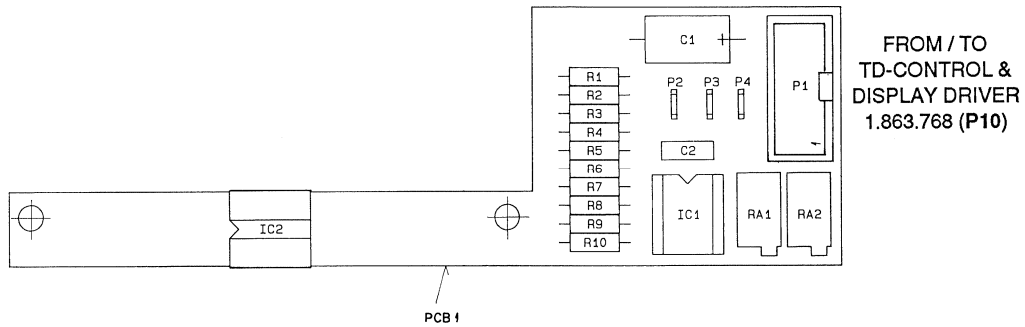
| Idx. Pos. | Part No.          | Qty. | Type/Val.  | Description                    | Idx. Pos. | Part No.   | Qty. | Type/Val. | Description | Idx. Pos. | Part No.   | Qty. | Type/Val. | Description  | Idx. Pos. | Part No.   | Qty. | Type/Val. | Description                  |
|-----------|-------------------|------|------------|--------------------------------|-----------|------------|------|-----------|-------------|-----------|------------|------|-----------|--------------|-----------|------------|------|-----------|------------------------------|
| 0 IC 30   | 50.15.0119        |      | ULN2803    | Octal peripheral Driver, o.c.  | 0 Q 10    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 R 17    | 57.11.3220 |      | 22R       | MF, 1%, 0207 | 0 RZ 42   | 57.88.2221 |      | 4*220R    | 2%, SIP 8                    |
| 0 IC 31   | 50.17.1154        |      | 74HC154    | 4-to16 Line driver, DIP 24-300 | 0 Q 11    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 R 18    | 57.11.3220 |      | 22R       | MF, 1%, 0207 | 0 RZ 43   | 57.88.2221 |      | 4*220R    | 2%, SIP 8                    |
| 0 IC 32   | 50.15.0119        |      | ULN2803    | Octal peripheral Driver, o.c.  | 0 Q 12    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 R 19    | 57.11.3220 |      | 22R       | MF, 1%, 0207 |           |            |      |           |                              |
| 0 IC 33   | 50.17.1154        |      | 74HC154    | 4-to16 Line driver, DIP 24-300 | 0 Q 13    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 R 20    | 57.11.3220 |      | 22R       | MF, 1%, 0207 | 0 S 1     | 55.03.0122 |      | 1'a       | S 1 TASTE, 1'A, PRINT,IMPULS |
| 0 IC 34   | 50.17.1541        |      | 74HC541    | IC ... 74 HC 541 ... ,A        | 0 Q 14    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 R 21    | 57.11.3220 |      | 22R       | MF, 1%, 0207 |           |            |      |           |                              |
| 0 IC 35   | 50.00.0010        |      | PORTMASTER | IC PORTMASTER (2.891.710.00)   | 0 Q 15    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 R 22    | 57.11.3271 |      | 270R      | MF, 1%, 0207 | 0 Y 1     | 89.01.0560 |      | 4.9152MHz | 4.915 200 MHz,               |
| 0 IC 36   | 50.17.1138        |      | 74HC138    | IC ... 74 HC 138 ... ,A        | 0 Q 16    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 R 23    | 57.11.3271 |      | 270R      | MF, 1%, 0207 |           |            |      |           |                              |
| 1 IC 37   | 50.16.0703        |      | 8279       | IC TMP 82 C 79 P-2             | 0 Q 17    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 R 24    | 57.11.3220 |      | 22R       | MF, 1%, 0207 |           |            |      |           |                              |
| 0 IC 38   | 50.16.0111        |      | 8279       | IC IP 8279-5, ID 8279-5,       | 0 Q 18    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 R 25    | 57.11.3220 |      | 22R       | MF, 1%, 0207 |           |            |      |           |                              |
| 0 IC 39   | 50.17.1138        |      | 74HC138    | IC ... 74 HC 138 ... ,A        | 0 Q 19    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 R 26    | 57.11.3220 |      | 22R       | MF, 1%, 0207 |           |            |      |           |                              |
| 0 IC 40   | 50.17.1138        |      | 74HC138    | IC ... 74 HC 138 ... ,A        | 0 Q 20    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 R 27    | 57.11.3103 |      | 10k       | MF, 1%, 0207 |           |            |      |           |                              |
| 0 IC 41   | 50.17.1138        |      | 74HC138    | IC ... 74 HC 138 ... ,A        | 0 Q 21    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 R 28    | 57.11.3220 |      | 22R       | MF, 1%, 0207 |           |            |      |           |                              |
| 1 IC 42   | 50.16.0703        |      | 8279       | IC TMP 82 C 79 P-2             | 0 Q 22    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 R 29    | 57.11.3220 |      | 22R       | MF, 1%, 0207 |           |            |      |           |                              |
| 0 IC 43   | 50.16.0111        |      | 8279       | IC IP 8279-5, ID 8279-5,       | 0 Q 23    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 R 30    | 57.11.3220 |      | 22R       | MF, 1%, 0207 |           |            |      |           |                              |
| 0 IC 44   | 50.17.1094        |      | 74HC14     | IC ... 74 HC 14 ... ,A         | 0 Q 24    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 R 31    | 57.11.3220 |      | 22R       | MF, 1%, 0207 |           |            |      |           |                              |
| 0 IC 45   | 50.17.1094        |      | 74HC14     | IC ... 74 HC 14 ... ,A         | 0 Q 25    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 R 32    | 57.11.3220 |      | 22R       | MF, 1%, 0207 |           |            |      |           |                              |
| 0 IC 46   | 50.17.1138        |      | 74HC138    | IC ... 74 HC 138 ... ,A        | 0 Q 26    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 R 33    | 57.11.3220 |      | 22R       | MF, 1%, 0207 |           |            |      |           |                              |
| 1 IC 47   | 50.16.0703        |      | 8279       | IC TMP 82 C 79 P-2             | 0 Q 27    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 R 34    | 57.11.3220 |      | 22R       | MF, 1%, 0207 |           |            |      |           |                              |
| 0 IC 48   | 50.16.0111        |      | 8279       | IC IP 8279-5, ID 8279-5,       | 0 Q 28    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 R 35    | 57.11.3220 |      | 22R       | MF, 1%, 0207 |           |            |      |           |                              |
| 0 IC 49   | 50.17.1645        |      | 74HC645    | IC ... 74 HC 245845 ,A         | 0 Q 29    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 R 36    | 57.11.3220 |      | 22R       | MF, 1%, 0207 |           |            |      |           |                              |
| 0 IC 50   | 50.17.1645        |      | 74HC645    | IC ... 74 HC 245845 ,A         | 0 Q 30    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 R 37    | 57.11.3220 |      | 22R       | MF, 1%, 0207 |           |            |      |           |                              |
| 0 IC 51   | 50.17.1645        |      | 74HC645    | IC ... 74 HC 245845 ,A         | 0 Q 31    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 R 38    | 57.11.3220 |      | 22R       | MF, 1%, 0207 |           |            |      |           |                              |
| 0 IC 52   | 50.17.1573        |      | 74HC573    | IC ... 74 HC 573 ... ,A        | 0 Q 32    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 R 39    | 57.11.3220 |      | 22R       | MF, 1%, 0207 |           |            |      |           |                              |
| 0 IC 53   | 50.16.0119        |      | HD6303R    | IC HD 83 B 03 RP, ,A           | 0 Q 33    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 R 40    | 57.11.3220 |      | 22R       | MF, 1%, 0207 |           |            |      |           |                              |
| 0 IC 54   | 50.17.1000        |      | 74HC00     | IC ... 74 HC 00 ... ,A         | 0 Q 34    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 R 41    | 57.11.3220 |      | 22R       | MF, 1%, 0207 |           |            |      |           |                              |
| 0 IC 55   | 50.17.1000        |      | 74HC00     | IC ... 74 HC 00 ... ,A         | 0 Q 35    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 R 42    | 57.11.3220 |      | 22R       | MF, 1%, 0207 |           |            |      |           |                              |
| 0 IC 56   | 50.16.0120        |      | MAX232     | IC MAX 232 CPE                 | 0 Q 36    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 R 43    | 57.11.3220 |      | 22R       | MF, 1%, 0207 |           |            |      |           |                              |
| 0 IC 57   | 50.17.1541        |      | 74HC541    | IC ... 74 HC 541 ... ,A        | 0 Q 37    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 R 44    | 57.11.3220 |      | 22R       | MF, 1%, 0207 |           |            |      |           |                              |
| 0 IC 58   | 50.18.0100        |      | PLD16V8    | 16 V 8 D - 25 LP               | 0 Q 38    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 R 45    | 57.11.3220 |      | 22R       | MF, 1%, 0207 |           |            |      |           |                              |
| 0 IC 59   | 50.17.1541        |      | 74HC541    | IC ... 74 HC 541 ... ,A        | 0 Q 39    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 R 46    | 57.11.3220 |      | 22R       | MF, 1%, 0207 |           |            |      |           |                              |
| 0 IC 60   | 50.17.1541        |      | 74HC541    | IC ... 74 HC 541 ... ,A        | 0 Q 40    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 R 47    | 57.11.3220 |      | 22R       | MF, 1%, 0207 |           |            |      |           |                              |
| 0 IC 61   | 50.17.1153        |      | 74HC193    | IC ... 74 HC 193 ... ,A        | 0 Q 41    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 R 48    | 57.11.3220 |      | 22R       | MF, 1%, 0207 |           |            |      |           |                              |
| 0 IC 62   | 50.17.1148        |      | 74HC148    | IC ... 74 HC 148 ... ,A        | 0 Q 42    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 R 49    | 57.11.3220 |      | 22R       | MF, 1%, 0207 |           |            |      |           |                              |
| 0 IC 63   | 50.18.0100        |      | PLD16V8    | 16 V 8 D - 25 LP               | 0 Q 43    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 R 50    | 57.11.3220 |      | 22R       | MF, 1%, 0207 |           |            |      |           |                              |
|           |                   |      |            |                                | 0 Q 44    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 R 51    | 57.11.3101 |      | 100R      | MF, 1%, 0207 |           |            |      |           |                              |
|           |                   |      |            |                                | 0 Q 45    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 R 52    | 57.11.3101 |      | 100R      | MF, 1%, 0207 |           |            |      |           |                              |
| 0 J 1     | 54.11.2005        |      | 64-P       | J EU-B 2 * 32                  | 0 Q 46    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 R 53    | 57.11.3101 |      | 100R      | MF, 1%, 0207 |           |            |      |           |                              |
| 0 J 2     | 54.11.2005        |      | 64-P       | J EU-B 2 * 32                  | 0 Q 47    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 R 54    | 57.11.3101 |      | 100R      | MF, 1%, 0207 |           |            |      |           |                              |
| 0 J 3     | 54.11.2005        |      | 64-P       | J EU-B 2 * 32                  | 0 Q 48    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 R 55    | 57.11.3101 |      | 100R      | MF, 1%, 0207 |           |            |      |           |                              |
| 0 J 4     | 54.11.2005        |      | 64-P       | J EU-B 2 * 32                  | 0 Q 49    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 R 56    | 57.11.3470 |      | 47R       | MF, 1%, 0207 |           |            |      |           |                              |
| 0 J 5     | 54.11.2005        |      | 64-P       | J EU-B 2 * 32                  | 0 Q 50    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 R 57    | 57.11.3470 |      | 47R       | MF, 1%, 0207 |           |            |      |           |                              |
| 0 J 6     | 54.11.2005        |      | 64-P       | J EU-B 2 * 32                  | 0 Q 51    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 R 58    | 57.11.3100 |      | 10R       | MF, 1%, 0207 |           |            |      |           |                              |
| 0 J 7     | 54.11.2004        |      | 32p        | EU-BK 2*16p                    | 0 Q 52    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 R 59    | 57.11.3100 |      | 10R       | MF, 1%, 0207 |           |            |      |           |                              |
| 0 J 8     | 54.11.2004        |      | 32p        | EU-BK 2*16p                    | 0 Q 53    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 R 60    | 57.11.3689 |      | 6R8       | MF, 1%, 0207 |           |            |      |           |                              |
| 0 J 9     | 54.25.0054        |      | 4p         | Buchse, 16A, winkel, PCB       | 0 Q 54    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 RZ 1    | 57.88.2221 |      | 4*220R    | 2%, SIP 8    |           |            |      |           |                              |
|           |                   |      |            |                                | 0 Q 55    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 RZ 2    | 57.88.2221 |      | 4*220R    | 2%, SIP 8    |           |            |      |           |                              |
| 0 L 1     | 62.03.0030        |      | 110uH      | 3A Toroid Choke                | 0 Q 56    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 RZ 3    | 57.88.2221 |      | 4*220R    | 2%, SIP 8    |           |            |      |           |                              |
|           |                   |      |            |                                | 0 Q 57    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 RZ 4    | 57.88.2221 |      | 4*220R    | 2%, SIP 8    |           |            |      |           |                              |
| 0 MP 1    | 53.03.0218 120 m  |      | 1p         | XIC SINGLE, IN-LINE 1PIN=1STK  | 0 Q 58    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 RZ 5    | 57.88.2221 |      | 4*220R    | 2%, SIP 8    |           |            |      |           |                              |
| 0 MP 2    | 53.03.0113 1 mp   |      | 20p        | DIL 0.3" ,Ist, gerade          | 0 Q 59    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 RZ 6    | 57.88.2221 |      | 4*220R    | 2%, SIP 8    |           |            |      |           |                              |
| 0 MP 3    | 53.03.0168 1 mp   |      | 16p        | DIL 0.3" ,Ist, gerade          | 0 Q 60    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 RZ 7    | 57.88.2221 |      | 4*220R    | 2%, SIP 8    |           |            |      |           |                              |
| 0 MP 4    | 53.03.0165 2 mp   |      | 20p        | DIL 0.3" ,Ist, gerade          | 0 Q 61    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 RZ 8    | 57.88.2221 |      | 4*220R    | 2%, SIP 8    |           |            |      |           |                              |
| 0 MP 5    | 1.863.769.11 1 mp |      |            | SERBUS CTR&DISPLDRIVER PCB/M   | 0 Q 62    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 RZ 9    | 57.88.2221 |      | 4*220R    | 2%, SIP 8    |           |            |      |           |                              |
| 0 MP 6    | 89.01.1489 1 mp   |      |            | QUARZ - ISOLIERPLATTE          | 0 Q 63    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 RZ 10   | 57.88.2221 |      | 4*220R    | 2%, SIP 8    |           |            |      |           |                              |
| 0 MP 7    | 1.010.015.50 1 mp |      | Spacer     | ISOLIER-SCHIEBE ZU 5           | 0 Q 64    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 RZ 11   | 57.88.2221 |      | 4*220R    | 2%, SIP 8    |           |            |      |           |                              |
| 0 MP 8    | 99.01.0577 0 mp   |      |            | SILIKONKLEBER DELOMET 2301     | 0 Q 65    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 RZ 12   | 57.88.2221 |      | 4*220R    | 2%, SIP 8    |           |            |      |           |                              |
| 0 MP 9    | 43.01.0166 1 mp   |      | Label      | ESSE-WARNSCHILD                | 0 Q 66    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 RZ 13   | 57.88.2221 |      | 4*220R    | 2%, SIP 8    |           |            |      |           |                              |
| 0 MP 10   | 1.863.769.01 1 mp |      |            | NR-ETIKETTE 6 * 20             | 0 Q 67    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 RZ 14   | 57.88.2221 |      | 4*220R    | 2%, SIP 8    |           |            |      |           |                              |
| 0 MP 11   | 28.21.2368 16 mp  |      |            | ROHRNIETLE DIN D 2*6*6.0       | 0 Q 68    | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0 RZ 15   | 57.88.4332 |      | 8*3k3     | 2%, SIP 9    |           |            |      |           |                              |
|           |                   |      |            |                                |           |            |      |           |             |           |            |      |           |              |           |            |      |           |                              |

EDIT ASSEMBLY 1.863.250.00  
-CUE Tacho Board 1.863.770.00



|               |    |  |                 |    |              |
|---------------|----|--|-----------------|----|--------------|
| © 30.07.93    | PG |  |                 |    |              |
|               |    |  | D827            |    | PAGE 1 OF 1  |
| <b>STUDER</b> |    |  | CUE TACHO BOARD | SC | 1.863.770.00 |

## EDIT ASSEMBLY 1.863.250.00 -CUE Tacho Board 1.863.770.00



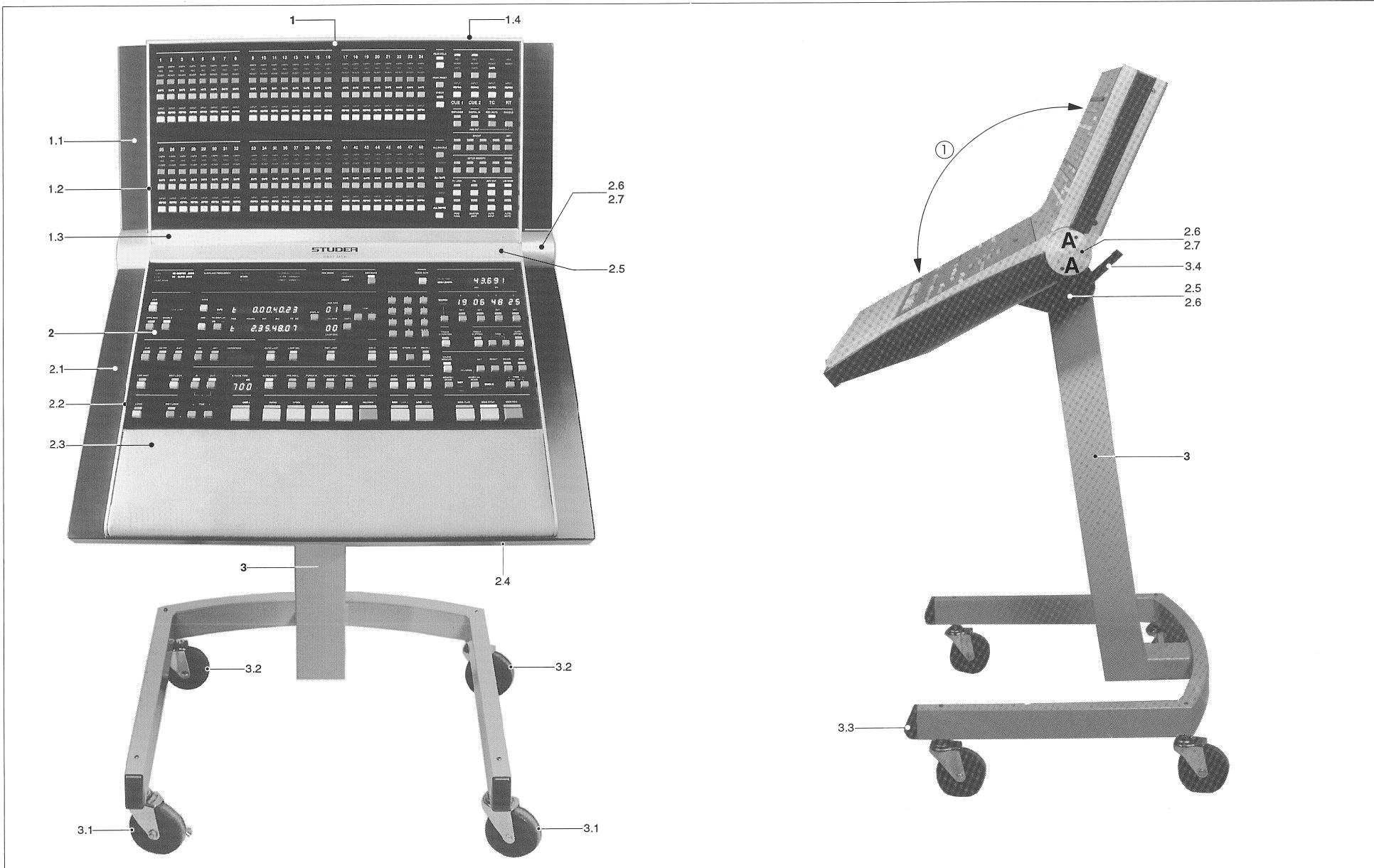
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| ○             |                 |      |              |      |
| ○             |                 |      |              |      |
| ○             |                 |      |              |      |
| ⊙             | 30.07.93        | PG   | /            | /    |
| IND.          | DATUM           | GEZ. | GEPR.        | GES. |
| BLATT 1 VON 1 |                 |      |              |      |
| STUDER        | CUE TACHO BOARD | BP   | 1.863.770.00 |      |

| Ad                           | POS.         | REF.No.   | DESCRIPTION                     | MANUFACTURER  |
|------------------------------|--------------|-----------|---------------------------------|---------------|
| C.....1                      | 59.25.3470   | 47u       | 20 %, 16V                       |               |
| C.....2                      | 59.06.0683   | 68n       | 10 %, 63V                       |               |
| IC....1                      | 50.15.0114   | 9637      | DIP08, DUAL DIFF. LINE RECEIVER |               |
| IC....2                      | 1.820.765.01 | 182076501 | DIP08, OPTOCOUPLER              |               |
| P.....1                      | 54.14.2001   |           | STECKER 10 P, SN, GERADE        |               |
| P.....2                      | 54.02.0320   | 1-P       | STR., MALE, FLATPIN 2.8*0.8     |               |
| P.....3                      | 54.02.0320   | 1-P       | STR., MALE, FLATPIN 2.8*0.8     |               |
| P.....4                      | 54.02.0320   | 1-P       | STR., MALE, FLATPIN 2.8*0.8     |               |
| PCB...1                      | 1.863.770.11 |           | Empty PCB                       |               |
| R.....1                      | 57.11.3561   | 560E      | 1 %, 0.6W, MF                   |               |
| R.....2                      | 57.11.3561   | 560E      | 1 %, 0.6W, MF                   |               |
| R.....3                      | 57.11.3221   | 220E      | 1 %, 0.6W, MF                   |               |
| R.....4                      | 57.11.3221   | 220E      | 1 %, 0.6W, MF                   |               |
| R.....5                      | 57.11.3222   | 2k2       | 1 %, 0.6W, MF                   |               |
| R.....6                      | 57.11.3102   | 1k        | 1 %, 0.6W, MF                   |               |
| R.....7                      | 57.11.3222   | 2k2       | 1 %, 0.6W, MF                   |               |
| R.....8                      | 57.11.3102   | 1k        | 1 %, 0.6W, MF                   |               |
| R.....9                      | 57.11.3222   | 2k2       | 1 %, 0.6W, MF                   |               |
| R.....10                     | 57.11.3222   | 2k2       | 1 %, 0.6W, MF                   |               |
| RA....1                      | 58.05.0202   | 2k        | 10 %, 0.5W, SCREW HORIZ.        |               |
| RA....2                      | 58.05.0202   | 2k        | 10 %, 0.5W, SCREW HORIZ.        |               |
| 1.863.770-00 CUE TACHO BOARD |              |           |                                 | PER93/07/3000 |

#### 4 Diagrams Remotes and Peripherals

|   |                           |             |
|---|---------------------------|-------------|
| <b>Remote Stand</b> .....                   | <b>1.328.192.00</b> ..... | <b>4/2</b>  |
| <b>Channel Remote Control (48CH)</b> .....  | <b>1.328.700.81</b> ..... | <b>4/4</b>  |
| <b>Channel Remote Control (24CH)</b> .....  | <b>1.328.705.81</b> ..... | <b>4/4</b>  |
| -CH-CTR Front Board (48CH) .....            | 1.328.704.00 .....        | 4/5         |
| -CH-CTR Front Board (24CH) .....            | 1.328.707.00 .....        | 4/5         |
| -DC/DC Converter.....                       | 1.863.709.00 .....        | 4/15        |
| -Rembus Controller (without Software) ..... | 1.328.712.20 .....        | 4/17        |
| -Rembus Controller .....                    | 1.328.717.21 .....        | 4/17        |
| <b>Autolocator with SMEM</b> .....          | <b>1.328.710.81</b> ..... | <b>4/30</b> |
| -DC/DC Converter.....                       | 1.863.709.00 .....        | 4/15        |
| -Rembus Controller (without Software) ..... | 1.328.712.20 .....        | 4/17        |
| -Rembus Controller .....                    | 1.328.718.21 .....        | 4/17        |
| -ALOC Front Board .....                     | 1.328.713.00 .....        | 4/31        |
| -SMEM Front Board .....                     | 1.328.721.00 .....        | 4/37        |
| <b>Parallel Audio Interface (PAI)</b> ..... | <b>1.328.630.00</b> ..... | <b>4/39</b> |
| -PAI Rembus + Processor .....               | 1.328.631.21 .....        | 4/43        |
| -PAI In/Out .....                           | 1.328.632.81 .....        | 4/45        |
| -PAI 5V Converter .....                     | 1.328.633.00 .....        | 4/49        |
| -PAI Backpanel .....                        | 1.328.634.00 .....        | 4/51        |
| <b>Rembus Termination Plug</b> .....        | <b>1.862.423.00</b> ..... | <b>4/52</b> |
| <b>Connection Cables</b>                    |                           |             |
| -Rembus Connection Cable, 9Pin, 0.6m .....  | 1.862.420.00 .....        | 4/53        |
| -Rembus Connection Cable, 9Pin, 15m .....   | 1.862.421.00 .....        | 4/54        |
| <b>Remote Level Display (48CH)</b> .....    | <b>1.328.730.00</b> ..... | <b>4/55</b> |
| <b>Remote Level Display (24CH)</b> .....    | <b>1.328.735.00</b> ..... | <b>4/55</b> |
| -Bargraph Board .....                       | 1.328.731.00 .....        | 4/57        |
| -Bargraph Mux Board .....                   | 1.328.732.20 .....        | 4/63        |
| -Bargraph Controller Board .....            | 1.328.733.20 .....        | 4/69        |
| -DC/DC Converter.....                       | 1.863.709.00 .....        | 4/17        |

REMOTE STAND 1.328.192.00 for MKI / MKII

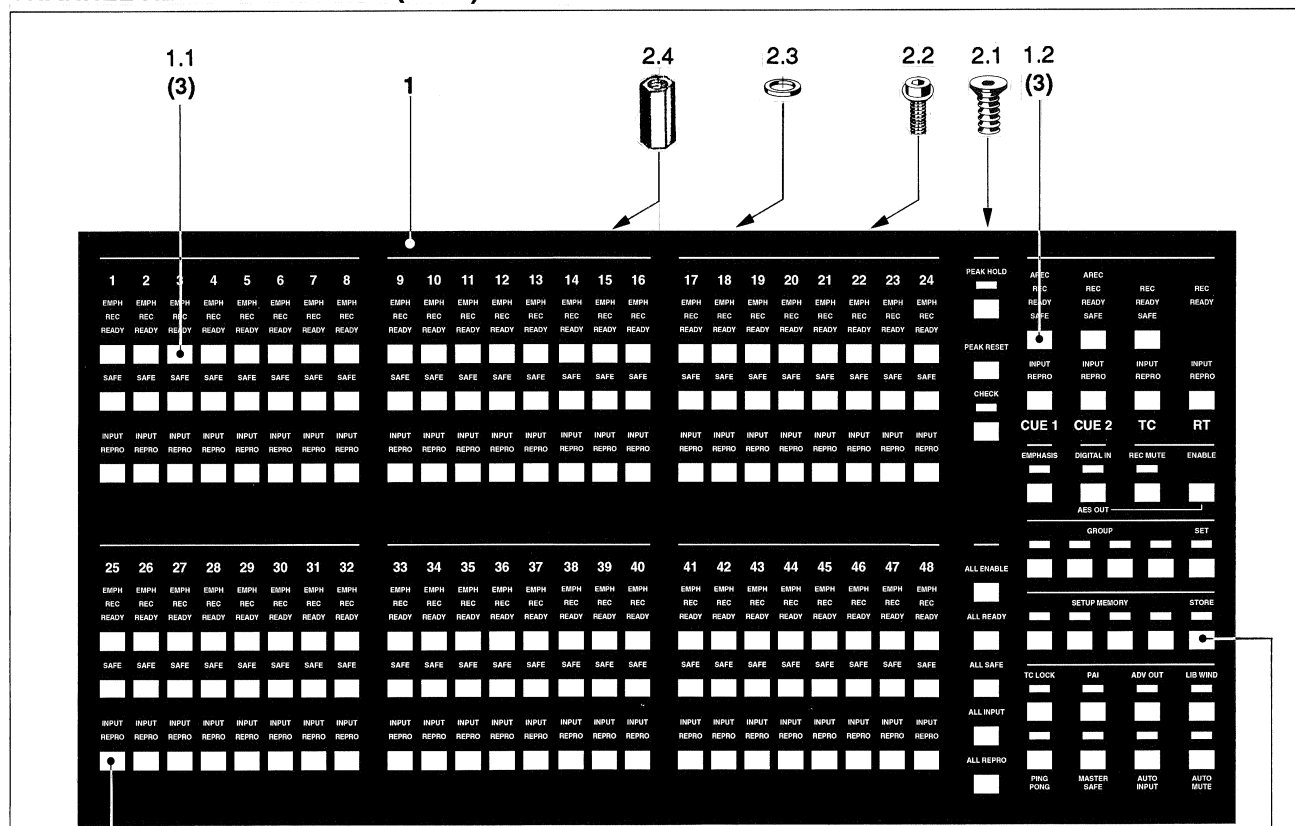


## REMOTE STAND 1.328.192.00

| Index | Qty. | Order No.    | Part Name                          | Specification |
|-------|------|--------------|------------------------------------|---------------|
| 1     | 1    | 1.328.700.81 | Channel remote control             | 48CH          |
|       | or 1 | 1.328.705.81 | Channel remote control             | 24CH          |
| 1.1   | 2    | 1.328.192.13 | Purple trim                        | left side     |
| 1.2   | 1    | 1.328.192.02 | Housing for channel remote control |               |
| 1.3   | 1    | 1.328.192.04 | Cover plate for hinge              |               |
| 1.4   | 1    | 1.328.192.05 | Rear cover plate                   |               |
| 2     | 1    | 1.328.710.81 | Autolocator with SMEM              |               |
| 2.1   | 2    | 1.328.192.12 | Purple trim                        | right side    |
| 2.2   | 1    | 1.328.192.01 | Housing for Autolocator            |               |
| 2.3   | 1    | 1.328.192.07 | Hand rest                          |               |
| 2.4   | 1    | 1.328.192.06 | Purple trim                        | front         |
| 2.5   | 1    | 1.328.192.03 | Cover plate for hinge              |               |
| 2.6   | 2    | 1.328.192.11 | Hinge cover                        |               |
| 2.7   | 4    | 1.328.192.10 | Locking disk                       | D54           |
| 3     | 1    | 1.328.183.00 | Trolley                            | compl.        |
| 3.1   |      | 33.04.0271   | Castor with brake                  |               |
| 3.2   | 2    | 33.04.0270   | Castor without brake               |               |
| 3.3   | 2    | 1.058.001.05 | Bumper                             |               |
| 3.4   | 1    | 33.03.0501   | Handle                             |               |
| 3.5   | 1    | 1.328.180.03 | Pivot, Threaded                    |               |
| 3.6   | 4    | 1.328.180.06 | Locking disk                       | D43.5         |

- ① To tilt the display angle, slightly unfasten two allen screws (A) (4mm allen key) on each side.

CHANNEL REMOTE CONTROL (48CH) 1.328.700.81  
 CHANNEL REMOTE CONTROL (24CH) 1.328.705.81



| Index | Qty.                    | Order No.  | Part Name  | Specification                |
|-------|-------------------------|--|--|------------------------------|
| 1     | 1<br>or<br>1<br>or<br>1 | 1.328.700.05<br>1.328.705.05<br>1.328.700.40<br>1.328.705.40 | Front cover Plexiglas only, for CH CTR<br>Front cover Plexiglas only, for CH CTR<br>Panel kit (Metalframe with Plexiglas mounted)<br>Panel kit (Metalframe with Plexiglas mounted) | 48CH<br>24CH<br>48CH<br>24CH |
| 1.1   | 49 (25*)                | 1.010.049.55   | Push button green  | 9x6.5                        |
| 1.2   | 64 (40*)                | 1.010.048.55   | Push button dark grey  | 9x6.5                        |
| 1.3   | 59 (35*)                | 1.010.045.55   | Push button light grey   | 9x6.5                        |
| 1.4   | 3                       | 1.010.050.55   | Push button red  | 9x6.5                        |
| 2.1   | 11                      | 21.53.2354   | Counter sunk screw   | M3x6                         |
| 2.2   | 21                      | 21.53.9354   | Chees head screw with lock washer  | M3x6                         |
| 2.3   | 13                      | 24.16.1030   | Fin washer   | D3.2/5.5                     |
|       | 4                       | 24.16.2030   | Star washer  | D3.2                         |
| 2.4   | 13                      | 1.010.225.27   | Hexagon bolt   | M3/M3x16                     |
| 3     | 175 (103*)              | 55.15.0531   | Pulse switch   |                              |

Connection cable:

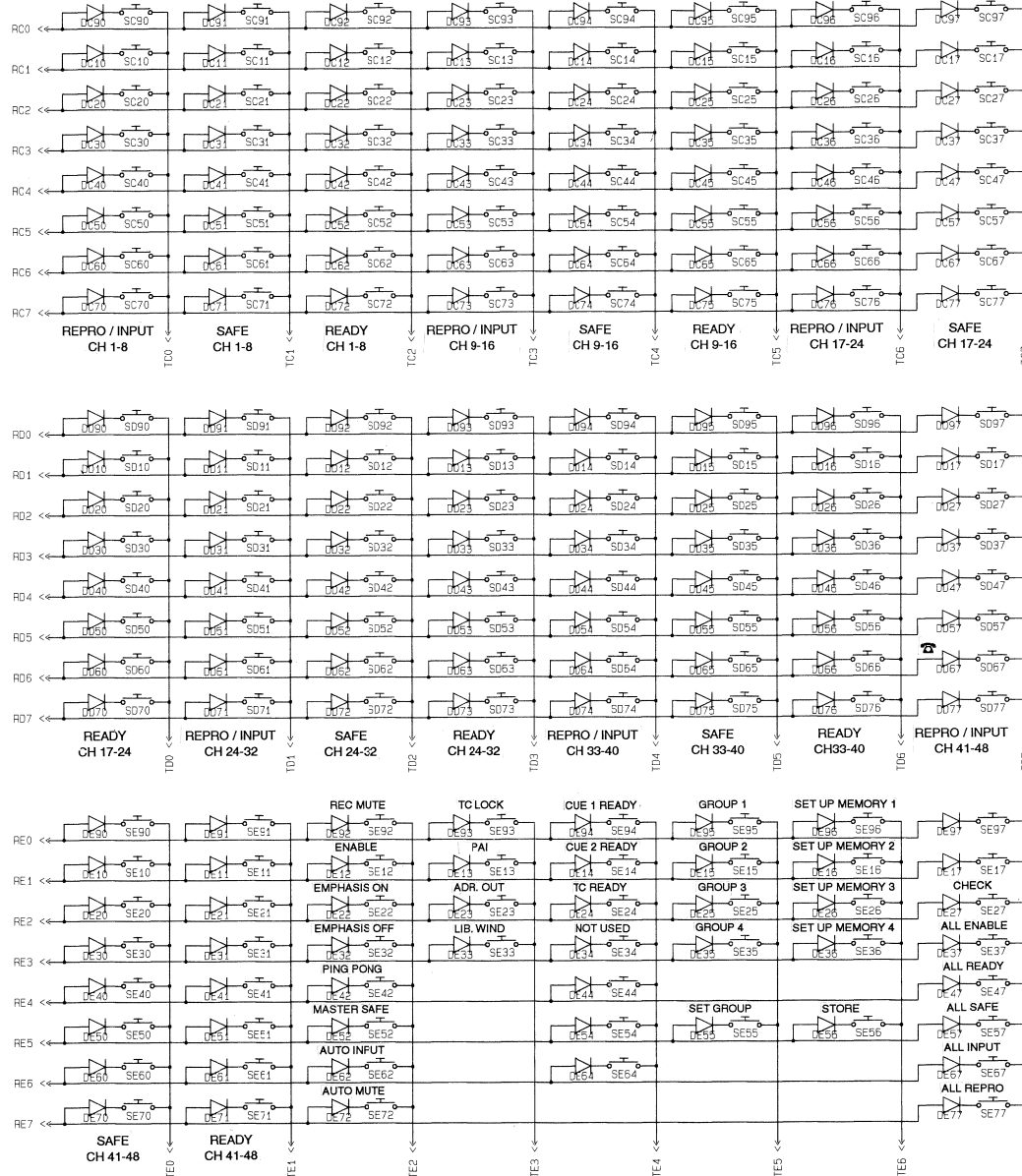
| Index | Qty.    | Order No.                    | Part Name   | Specification |
|-------|---------|------------------------------|---|---------------|
|       | 1<br>or | 1.862.421.00<br>1.862.420.00 | 9 pin cable to D827 MCH<br>9 pin cable to Autolocator with SMEM | 15m<br>0.6m   |

\* Amount of items for 24-CH-version

STUDER D827 MCH

CHANNEL REMOTE CONTROL (48CH) 1.328.700.81  
-CH-CTR Front Board (48CH) 1.328.704.00

CHANNEL REMOTE CONTROL (24CH) 1.328.705.81  
-CH-CTR Front Board (24CH) 1.328.707.00

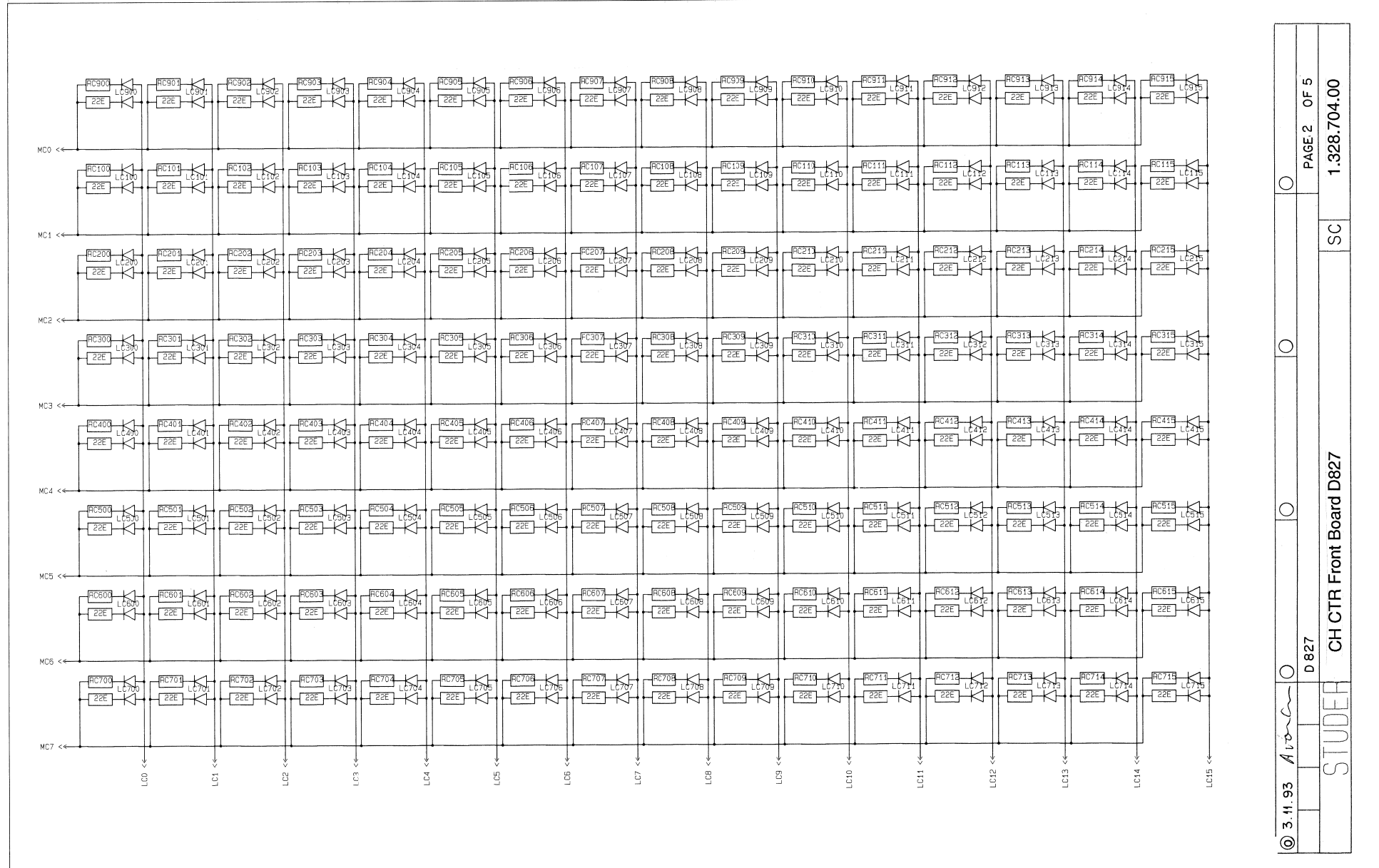


|                   |       |                         |
|-------------------|-------|-------------------------|
| © 3.41.93 A-0-C-1 | D 827 | PAGE 4 OF 5             |
|                   |       | 1.328.704.00            |
| STUDER            |       | CH CTR Front Board D827 |



CHANNEL REMOTE CONTROL (48CH) 1.328.700.81  
-CH-CTR Front Board (48CH) 1.328.704.00

CHANNEL REMOTE CONTROL (24CH) 1.328.705.81  
-CH-CTR Front Board (24CH) 1.328.707.00

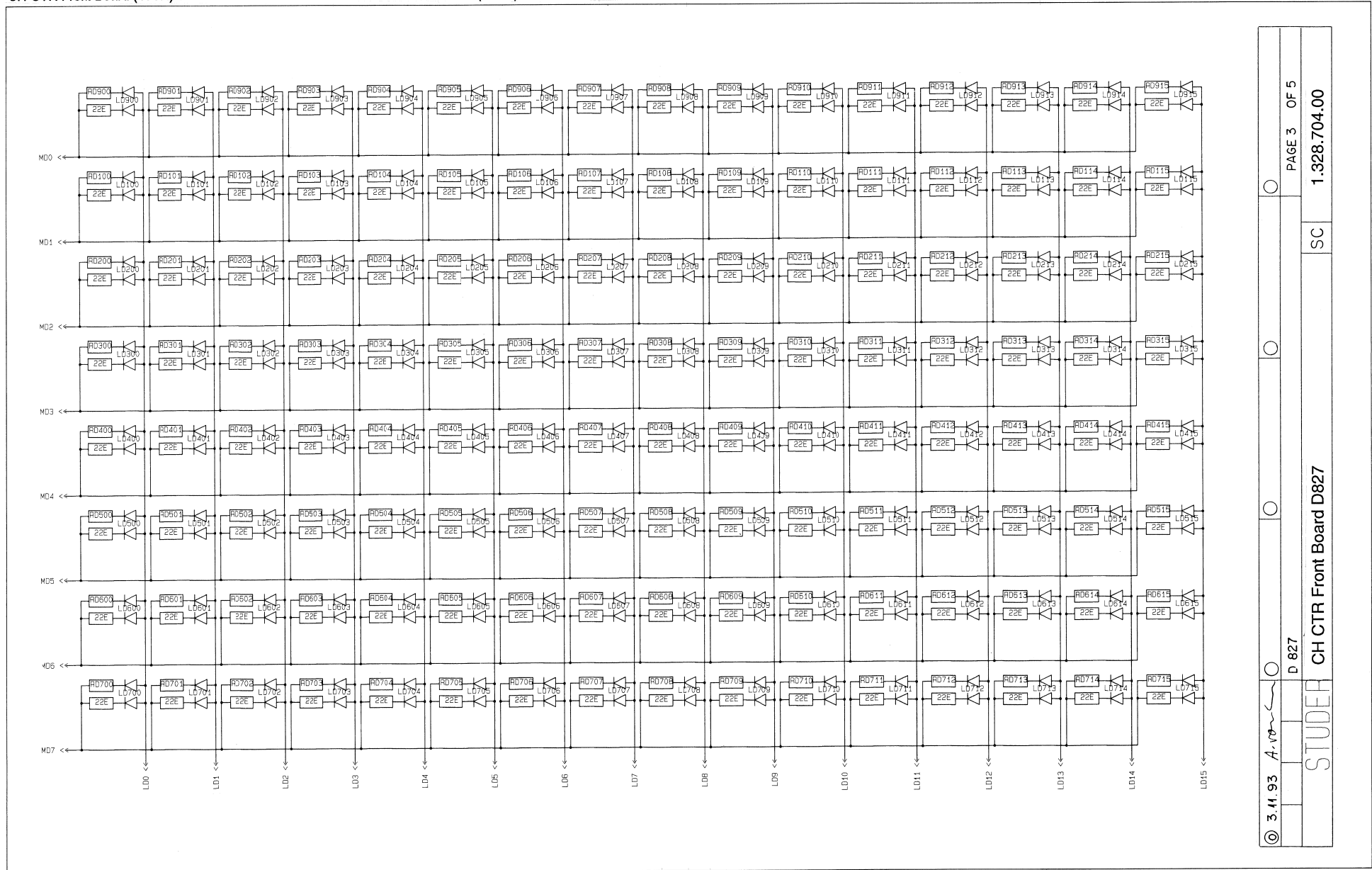


|           |      |       |                         |    |              |             |
|-----------|------|-------|-------------------------|----|--------------|-------------|
| © 3.11.93 | Alto | D 827 | CH CTR Front Board D827 | SC | 1.328.704.00 | PAGE 2 OF 5 |
|-----------|------|-------|-------------------------|----|--------------|-------------|

STUDER D827 MCH

CHANNEL REMOTE CONTROL (48CH) 1.328.700.81  
 -CH-CTR Front Board (48CH) 1.328.704.00

CHANNEL REMOTE CONTROL (24CH) 1.328.705.81  
 -CH-CTR Front Board (24CH) 1.328.707.00

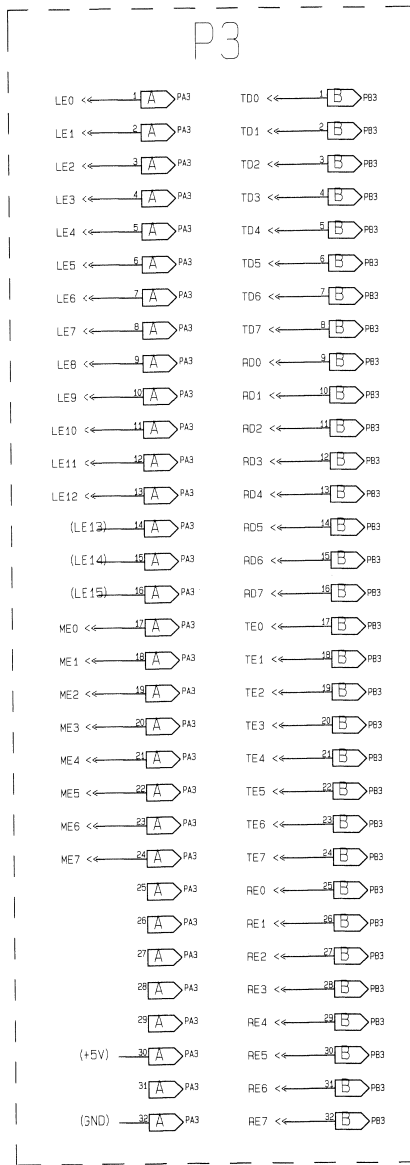
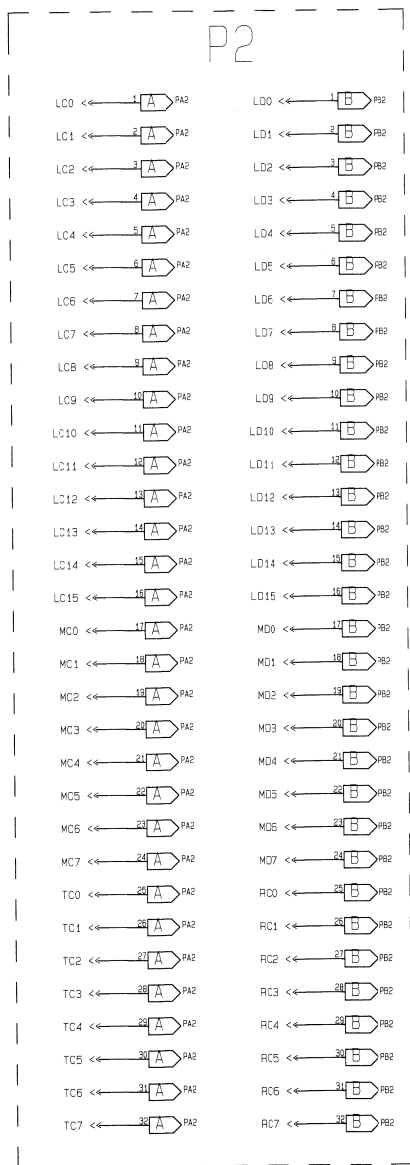


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|--------------------------------|-------|--------------|
| © 3.11.93 A. 10-10-10          | D 827 | PAGE 3 OF 5  |
| STUDER CH CTR Front Board D827 |       | SC           |
|                                |       | 1.328.704.00 |



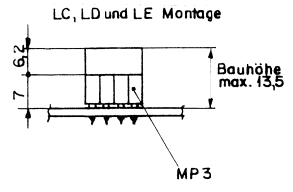
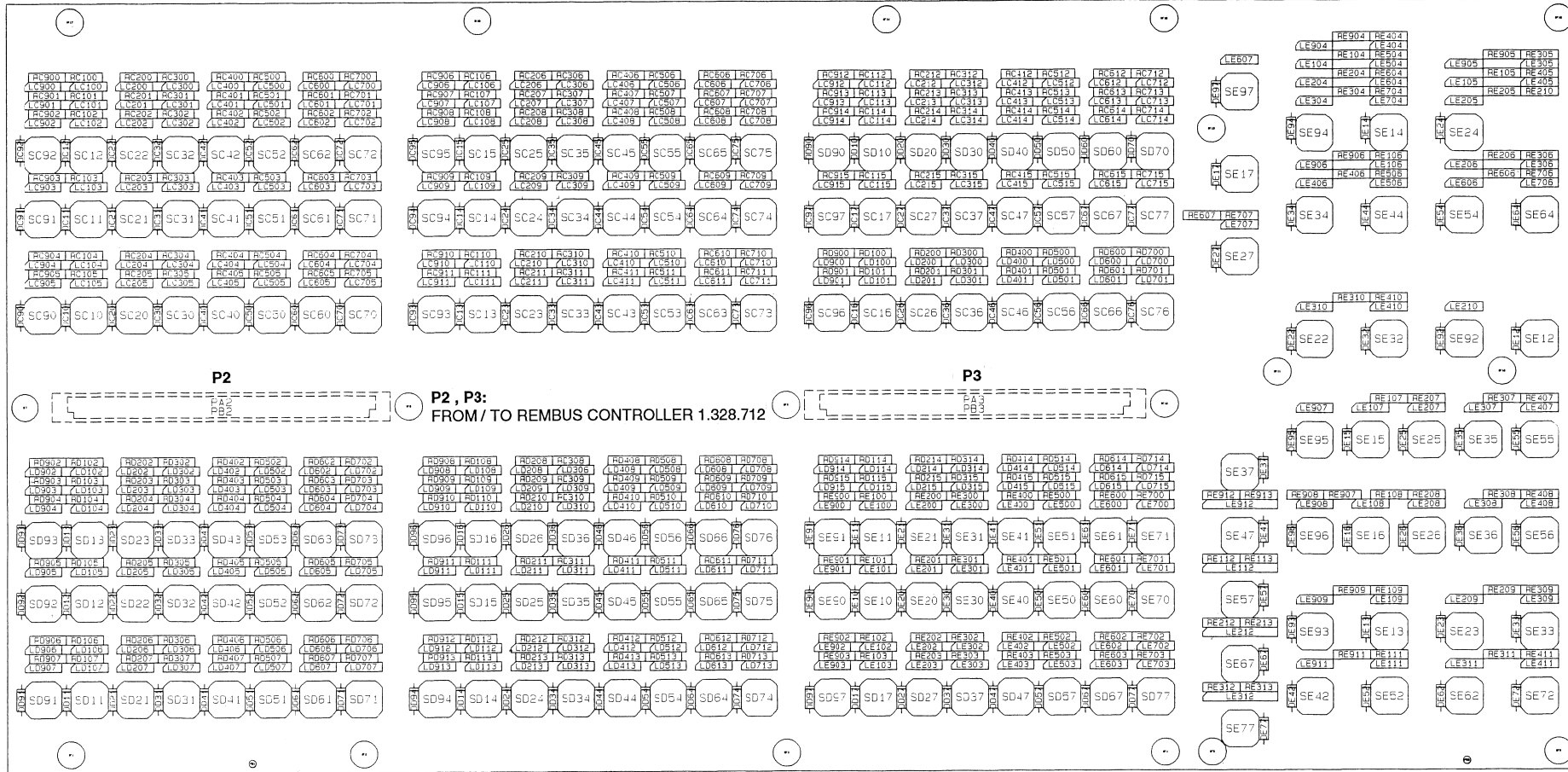
CHANNEL REMOTE CONTROL (48CH) 1.328.700.81  
 -CH-CTR Front Board (48CH) 1.328.704.00

CHANNEL REMOTE CONTROL (24CH) 1.328.705.81  
 -CH-CTR Front Board (24CH) 1.328.707.00



|                    |       |                         |
|--------------------|-------|-------------------------|
| ○                  | ○     | ○                       |
| © 3.11.93 A. 00000 | D 827 | CH CTR Front Board D827 |
| PAGE 5 OF 5        |       | SC                      |
| 1.328.704.00       |       |                         |

CHANNEL REMOTE CONTROL (48CH) 1.328.700.81  
-CH-CTR Front Board (48CH) 1.328.704.00



|           |       |      |      |      |       |
|-----------|-------|------|------|------|-------|
| Rev.      |       |      |      |      |       |
| 3         | 11.93 |      |      |      |       |
| Datum     |       | Gez. | Gez. | Gez. | Index |
| Kopie Nr. |       |      |      |      |       |

STUDER  
RECHENBANK  
ZÜRICH

CH CTR Front Board  
D 827

1.328.704.00





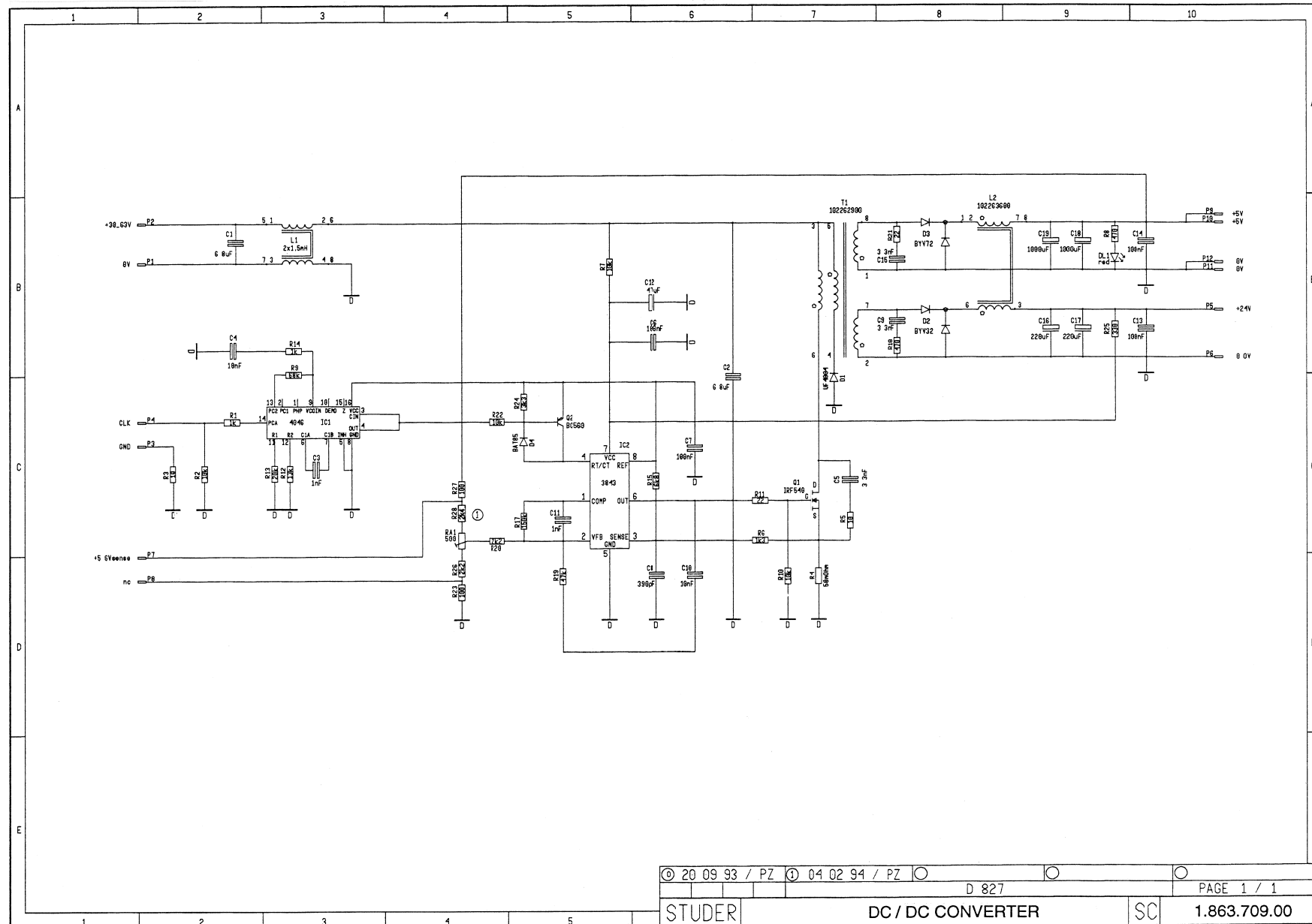






STUDER D827 MCH

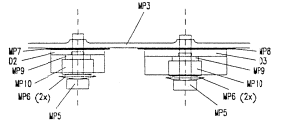
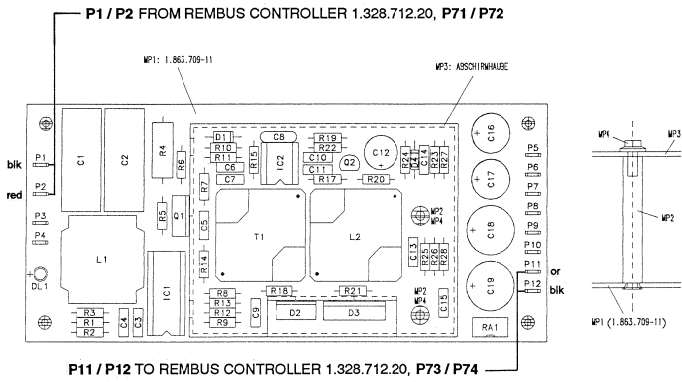
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 CHANNEL REMOTE CONTROL (24CH) 1.328.705.81  
 AUTOLOCATOR WITH SMEM 1.328.710.81  
 -DC / DC Converter 1.863.709.00



|                 |                   |       |              |
|-----------------|-------------------|-------|--------------|
| © 20 09 93 / PZ | ① 04 02 94 / PZ   | D 827 | PAGE 1 / 1   |
| STUDER          | DC / DC CONVERTER | SC    | 1.863.709.00 |

**STUDER D827 MCH**

**CHANNEL REMOTE CONTROL (48CH) 1.328.700.81**  
**CHANNEL REMOTE CONTROL (24CH) 1.328.705.81**  
**AUTOLOCATOR WITH SMEM 1.328.710.81**  
 -DC / DC Converter 1.863.709.00



MP11: ESE-Farneshi Id 43.01.0108 noch  
 Fabrikationsmaster aufgeliebt  
 MP12: NR-Etikette 1.863.709.01 noch  
 Fabrikationsmaster aufgeliebt

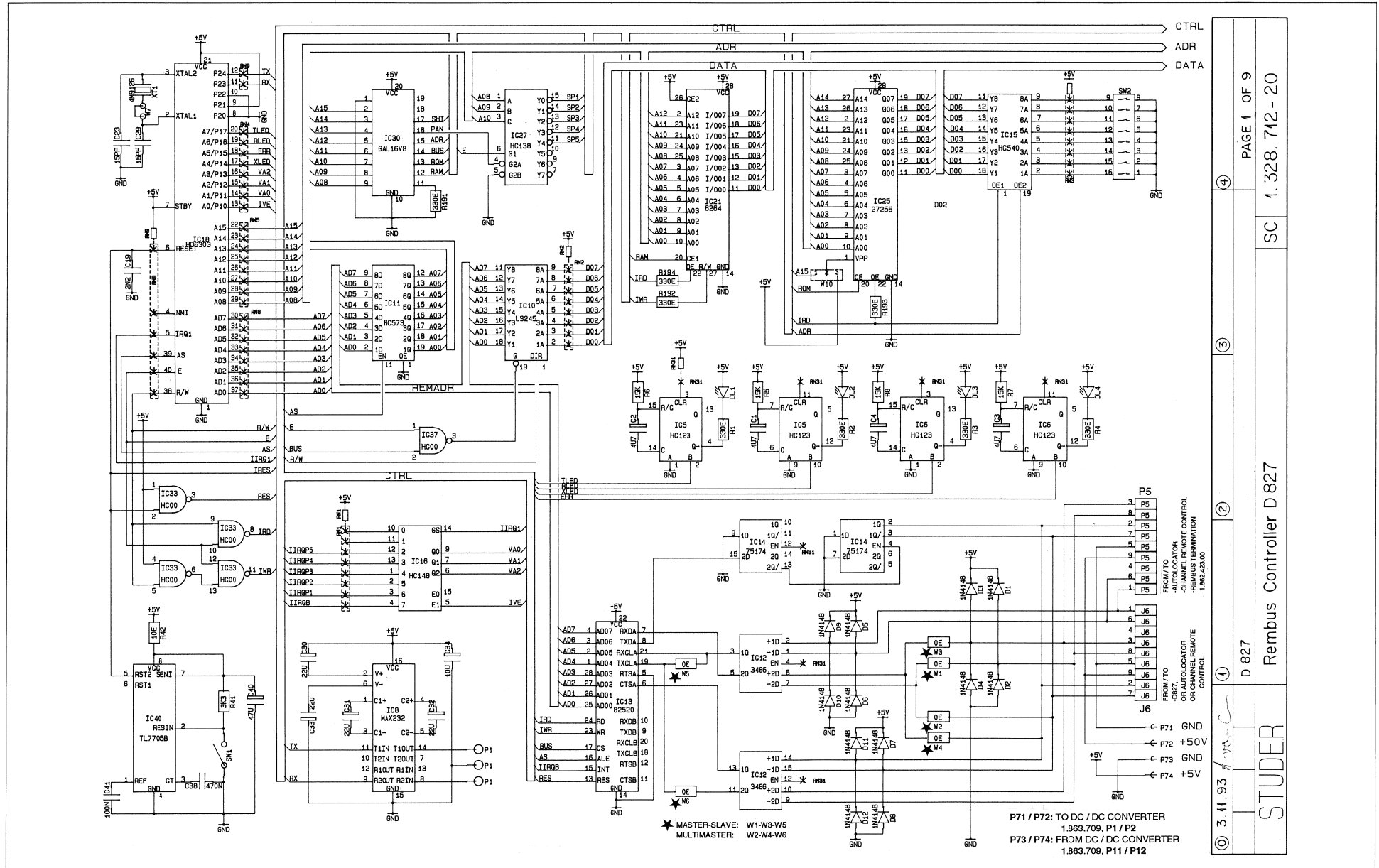
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| Edi Line | 20.9.93 | PZ | PZ | HAE |  |
| Date     |         |    |    |     |  |
| Visio    |         |    |    |     |  |
| Docum    |         |    |    |     |  |
| Cap.     |         |    |    |     |  |
| Seem     |         |    |    |     |  |
| Index    |         |    |    |     |  |

|               |                   |              |                         |         |              |
|---------------|-------------------|--------------|-------------------------|---------|--------------|
| <b>STUDER</b> | <b>REGENSDORF</b> | Description: | DC / DC CONVERTER "ESE" | Number: | 1.863.709.00 |
|---------------|-------------------|--------------|-------------------------|---------|--------------|

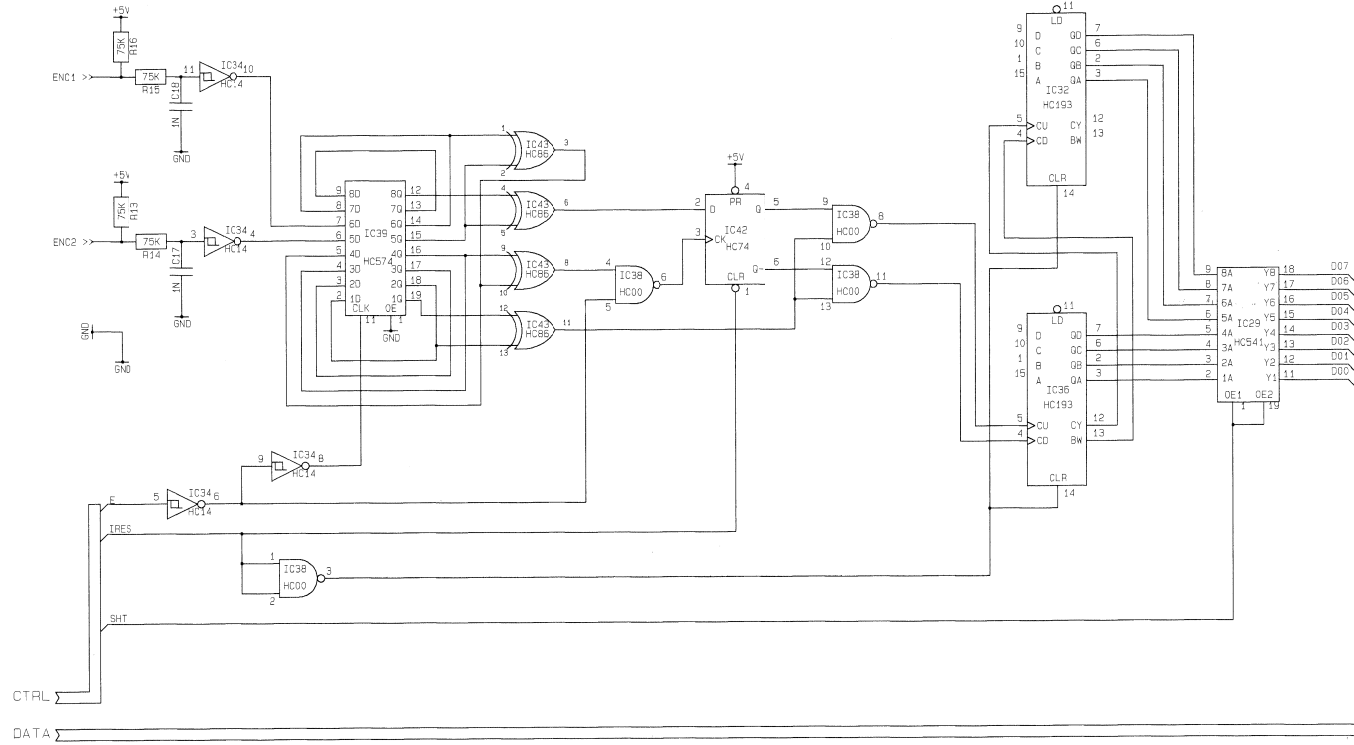
| Ad        | POS          | REF.No          | DESCRIPTION                       | MANUFACTURER |
|-----------|--------------|-----------------|-----------------------------------|--------------|
| C.....1   | 59.02.0685   | 6.8 uF          | 10%, 63V, MPC                     |              |
| C.....2   | 59.02.0685   | 6.8 uF          | 10%, 63V, MPC                     |              |
| C.....3   | 59.06.0102   | 1000 pF         | 10%, 63V, PETP                    |              |
| C.....4   | 59.06.0103   | 0.01 uF         | 10%, 63V, PETP                    |              |
| C.....5   | 59.06.0332   | 3300 pF         | 10%, 63V, PETP                    |              |
| C.....6   | 59.06.0104   | 0.1 uF          | 10%, 63V, PETP                    |              |
| C.....7   | 59.06.0104   | 0.1 uF          | 10%, 63V, PETP                    |              |
| C.....8   | 59.34.5391   | 390 pF          | 5%, N1500, CER                    |              |
| C.....9   | 00.00.0000   |                 | not used                          |              |
| C.....10  | 59.06.0103   | 0.01 uF         | 10%, 63V, PETP                    |              |
| C.....11  | 59.06.0102   | 1000 pF         | 10%, 63V, PETP                    |              |
| C.....12  | 59.22.8470   | 47 uF           | -20%, 63V, EL                     |              |
| C.....13  | 59.06.0104   | 0.1 uF          | 10%, 63V, PETP                    |              |
| C.....14  | 59.06.0104   | 0.1 uF          | 10%, 63V, PETP                    |              |
| C.....15  | 59.06.0332   | 3300 pF         | 10%, 63V, PETP                    |              |
| C.....16  | 59.22.6221   | 220 uF          | -20%, 40V, EL                     |              |
| C.....17  | 59.22.6221   | 220 uF          | -20%, 40V, EL                     |              |
| C.....18  | 59.22.3102   | 1000 uF         | -20%, 10V, EL                     |              |
| C.....19  | 59.22.3102   | 1000 uF         | -20%, 10V, EL                     |              |
| D.....1   | 50.04.0138   | UF 4004         | BYT 01-400                        |              |
| D.....2   | 50.04.0517   | BYV32-200       | BYV 32E-200,                      |              |
| D.....3   | 50.04.0920   | NBS04SPT        | PVR034SPT                         |              |
| D.....4   | 50.04.0127   | BAT 85          |                                   |              |
| DL.....1  | 50.04.2129   | LS 3360         | RED DIFF                          |              |
| IC.....1  | 50.07.0046   | CD 4046         | HEF 4046                          |              |
| IC.....2  | 50.10.0113   | IP 3843 N       |                                   |              |
| L.....1   | 62.03.0100   | >1.5 M          | 2 A, COMMON MODE CHOKE            |              |
| L.....2   | 1.022.636.00 | 30uh/7A         | STORAGE INDUCTOR                  |              |
| MP.....1  | 1.863.709.11 | 1 pce           | DC/DC CONVERTOR SV/4A PCB /I/     |              |
| MP.....2  | 1.010.022.22 | 2 pcs           | NETZWEITER SW 6, M 3 * 25         |              |
| MP.....3  | 1.862.812.02 | 1 pce           | ABSCHIRMHAUBE                     |              |
| MP.....4  | 21.53.3354   | 2 pcs           | Z-SCHR. 15, ZN, M 3 * 6           |              |
| MP.....5  | 21.53.0566   | 3 pcs           | Z-SCHR. 15, ZN, M 3 * 10          |              |
| MP.....6  | 37.01.0101   | 6 pcs           | TELLERFEDER, D 3.2 / 8 * 0.3      |              |
| MP.....7  | 50.20.0305   | 2 pcs           | TO 220 GLIMMERSCHLEIBE GEFETTET   |              |
| MP.....8  | 50.20.0317   | 1 pce           | B 65 GLIMMERSCHLEIBE              |              |
| MP.....9  | 50.20.0404   | 3 pcs           | ISOLIERDURCHFUEHRUNG, D 6.0 / 3.5 |              |
| MP.....10 | 1.010.098.27 | 3 pcs           | DISTANZMUESE D 3.1 / 7.0 * 2.3    |              |
| MP.....11 | 43.01.0108   | 1 pce           | ESE-WARNSCHILD                    |              |
| MP.....12 | 1.863.709.01 | 1 pce           | NR.-ETIKETTE 5 * 20               |              |
| P.....1   | 54.02.0320   |                 | 2.8*0.8, GERADE                   |              |
| P.....2   | 54.02.0320   |                 | 2.8*0.8, GERADE                   |              |
| P.....3   | 54.02.0320   |                 | 2.8*0.8, GERADE                   |              |
| P.....4   | 54.02.0320   |                 | 2.8*0.8, GERADE                   |              |
| P.....5   | 54.02.0320   |                 | 2.8*0.8, GERADE                   |              |
| P.....6   | 54.02.0320   |                 | 2.8*0.8, GERADE                   |              |
| P.....7   | 54.02.0320   |                 | 2.8*0.8, GERADE                   |              |
| P.....8   | 54.02.0320   |                 | 2.8*0.8, GERADE                   |              |
| P.....9   | 54.02.0320   |                 | 2.8*0.8, GERADE                   |              |
| P.....10  | 54.02.0320   |                 | 2.8*0.8, GERADE                   |              |
| P.....11  | 54.02.0320   |                 | 2.8*0.8, GERADE                   |              |
| P.....12  | 54.02.0320   |                 | 2.8*0.8, GERADE                   |              |
| Q.....1   | 50.03.1809   | IRF 540         | HEXFET, N-CHANNEL                 |              |
| Q.....2   | 50.03.0516   | BC 307 B        | BC 307 B, PNP                     |              |
| R.....1   | 57.11.3102   | 1 K             | 1%, 0207, MF                      |              |
| R.....2   | 57.11.3103   | 10 K            | 1%, 0207, MF                      |              |
| R.....3   | 57.11.3100   | 10              | 1%, 0207, MF                      |              |
| R.....4   | 57.96.2050   | 0.050           | 5%, 3 W                           |              |
| R.....5   | 57.11.3100   | 10              | 1%, 0207, MF                      |              |
| R.....6   | 57.11.3132   | 1.3 K           | 1%, 0207, MF                      |              |
| R.....7   | 57.11.3103   | 10 K            | 1%, 0207, MF                      |              |
| R.....8   | 57.11.3331   | 330             | 1%, 0207, MF                      |              |
| R.....9   | 57.11.3683   | 68 K            | 1%, 0207, MF                      |              |
| R.....10  | 57.11.3103   | 10 K            | 1%, 0207, MF                      |              |
| R.....11  | 57.11.3220   | 22              | 1%, 0207, MF                      |              |
| R.....12  | 57.11.3133   | 13 K            | 1%, 0207, MF                      |              |
| R.....13  | 57.11.3203   | 20 K            | 1%, 0207, MF                      |              |
| R.....14  | 57.11.3102   | 1 K             | 1%, 0207, MF                      |              |
| R.....15  | 57.11.3682   | 6.8 K           | 1%, 0207, MF                      |              |
| R.....16  | 57.11.3154   | 150 K           | 1%, 0207, MF                      |              |
| R.....17  | 00.00.0000   |                 | not used                          |              |
| R.....18  | 57.11.3473   | 47 K            | 1%, 0207, MF                      |              |
| R.....19  | 57.11.3222   | 2.2 K           | 1%, 0207, MF                      |              |
| R.....20  | 57.11.3220   | 22              | 1%, 0207, MF                      |              |
| R.....21  | 57.11.3220   | 22              | 1%, 0207, MF                      |              |
| R.....22  | 57.11.3103   | 10 K            | 1%, 0207, MF                      |              |
| R.....23  | 57.11.3101   | 100             | 1%, 0207, MF                      |              |
| R.....24  | 57.11.3332   | 3.3 K           | 1%, 0207, MF                      |              |
| R.....25  | 57.11.3331   | 330             | 1%, 0207, MF                      |              |
| R.....26  | 57.11.3222   | 2.2 K           | 1%, 0207, MF                      |              |
| R.....27  | 57.11.3101   | 100             | 1%, 0207, MF                      |              |
| R.....28  | 57.11.3302   | 3.0 K           | 1%, 0207, MF                      |              |
| R.....29  | 57.11.3242   | 2.4 K           | 1%, 0207, MF                      |              |
| RA.....1  | 58.01.9501   | 500             | 10%, .5 W, PMG                    |              |
| T.....1   | 1.022.629.00 |                 | SWITCHING TRANSFORMER 5.6V,24V    |              |
|           | 1.863.709.00 | DC/DC CONVERTER | GP 93/09/2000                     |              |
|           | 1.863.709.00 | DC/DC CONVERTER | GP 94/02/0401                     |              |

STUDER D827 MCH

CHANNEL REMOTE CONTROL (48CH) 1.328.700.81 / Rembus Controller 1.328.717.21  
 CHANNEL REMOTE CONTROL (24CH) 1.328.705.81 / Rembus Controller 1.328.717.21  
 AUTOLOCATOR WITH SMEM 1.328.705.81 / Rembus Controller 1.328.718.21  
 -Rembus Controller 1.328.712.20 (without Software)



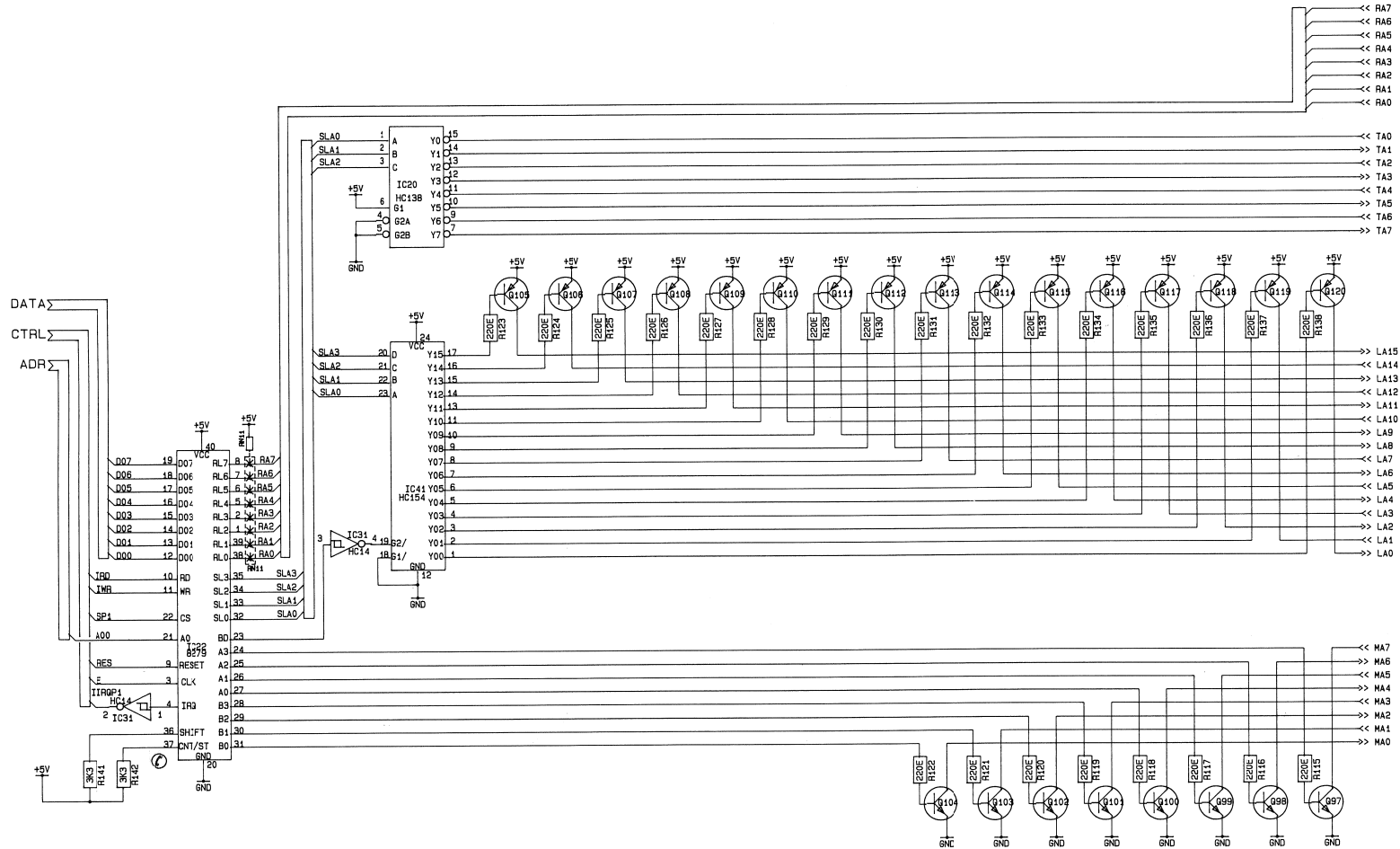
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 CHANNEL REMOTE CONTROL (24CH) 1.328.705.81 / Rembus Controller 1.328.717.21  
 AUTOLOCATOR WITH SMEM 1.328.705.81 / Rembus Controller 1.328.718.21  
 -Rembus Controller 1.328.712.20 (without Software)



|           |                         |                 |
|-----------|-------------------------|-----------------|
| © 3.11.93 | D827                    | PAGE 2 OF 9     |
| STUDER    | Rembus Controller D 827 | SC 1.328.712-20 |

STUDER D827 MCH

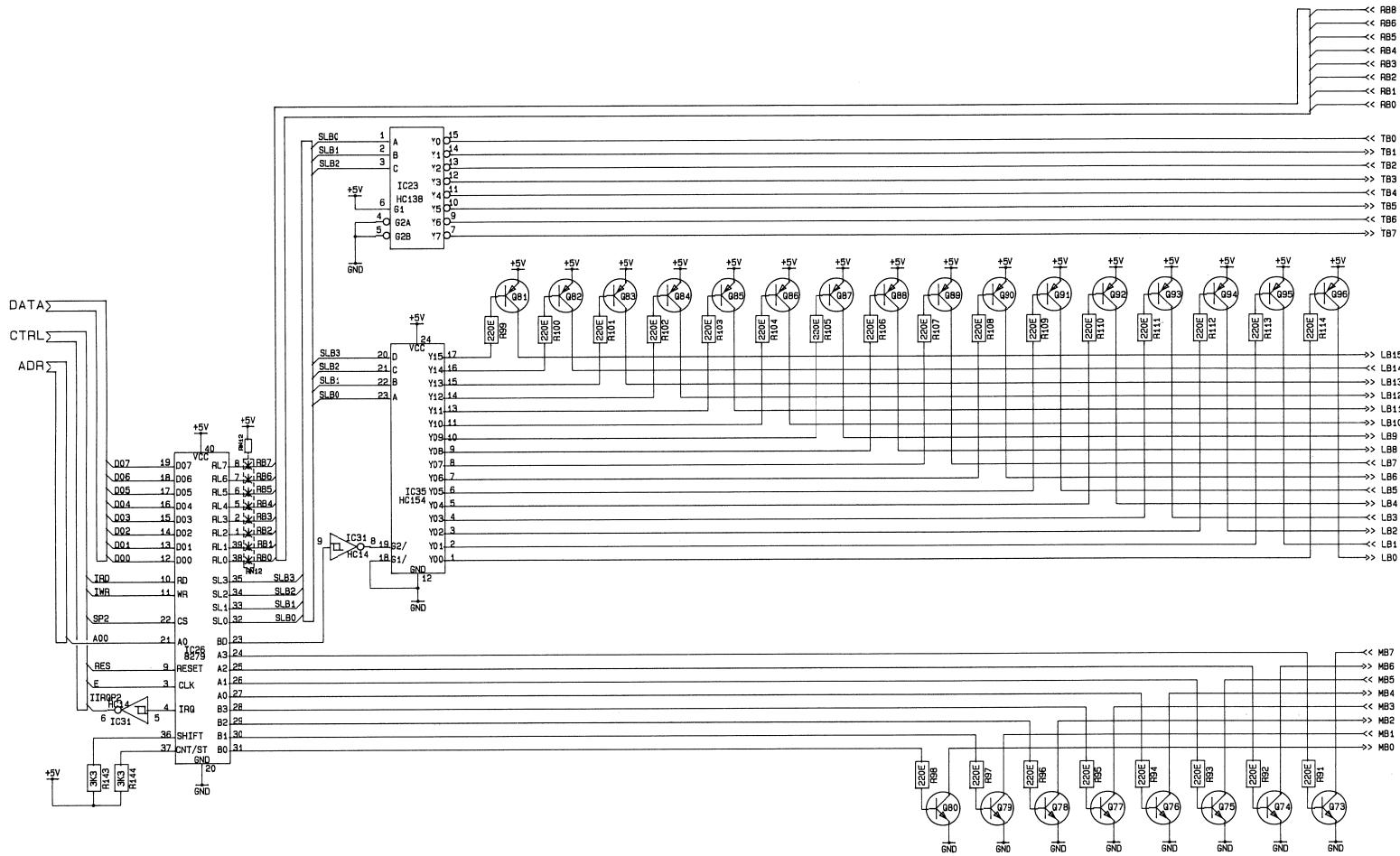
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 AUTOLOCATOR WITH SMEM 1.328.705.81 / Rembus Controller 1.328.718.21  
 -Rembus Controller 1.328.712.20 (without Software)



|   |         |                         |
|---|---------|-------------------------|
| ① | 3.11.93 | Revision                |
| ② | D827    | Rembus Controller D 827 |
| ③ | SC      | 1.328.712-20            |
| ④ | PAGE 3  | OF 9                    |

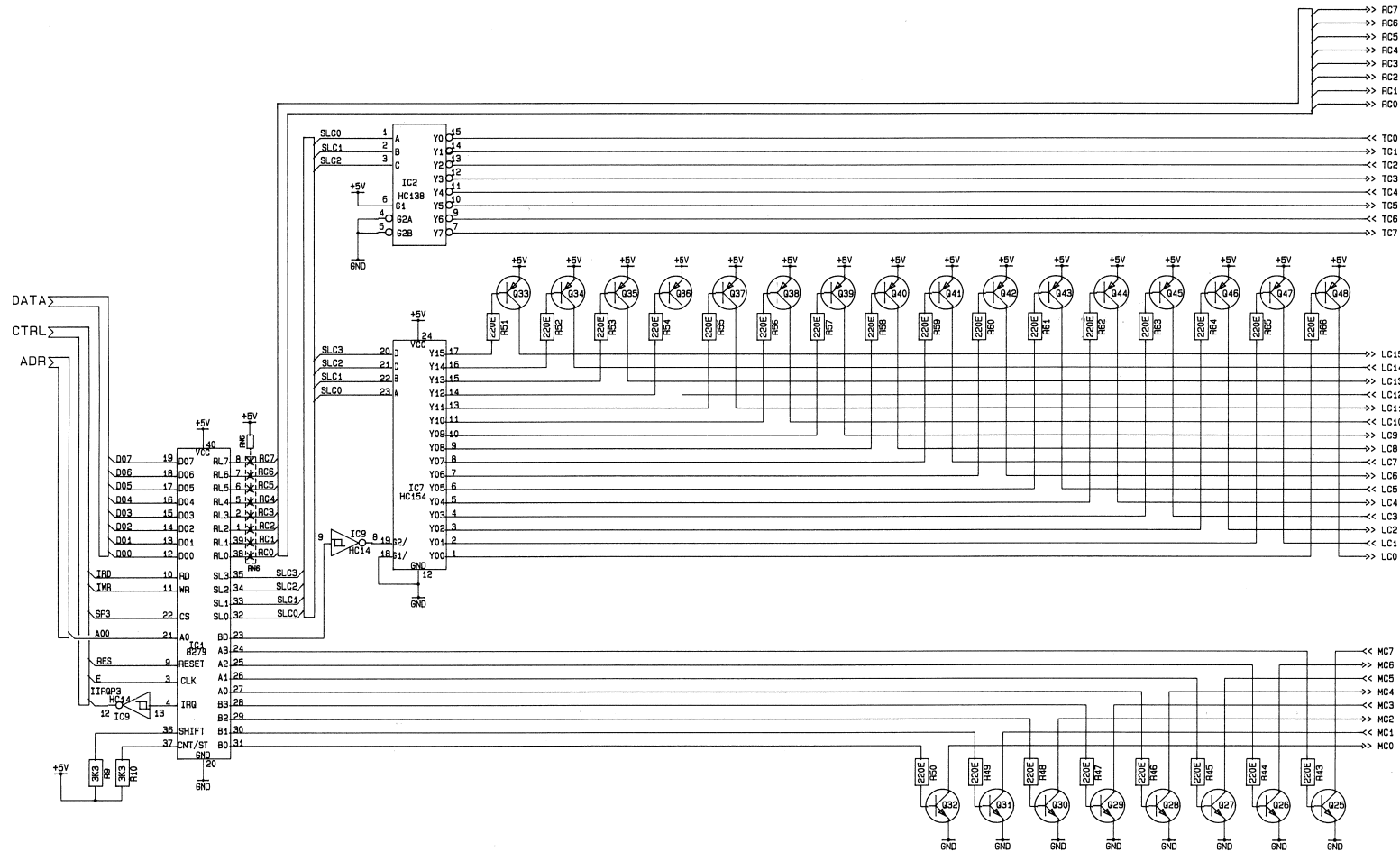
STUDER D827 MCH

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 CHANNEL REMOTE CONTROL (24CH) 1.328.705.81 / Rembus Controller 1.328.717.21  
 AUTOLOCATOR WITH SMEM 1.328.705.81 / Rembus Controller 1.328.718.21  
 -Rembus Controller 1.328.712.20 (without Software)



|   |                        |
|---|------------------------|
| ④ | PAGE 4 OF 9            |
| ③ | SC 1.328.712-20        |
| ② | Rembus Controller D827 |
| ① | STUDER                 |

CHANNEL REMOTE CONTROL (48CH) 1.328.700.81 / Rembus Controller 1.328.717.21  
 CHANNEL REMOTE CONTROL (24CH) 1.328.705.81 / Rembus Controller 1.328.717.21  
 AUTOLOCATOR WITH SMEM 1.328.705.81 / Rembus Controller 1.328.718.21  
 -Rembus Controller 1.328.712.20 (without Software)

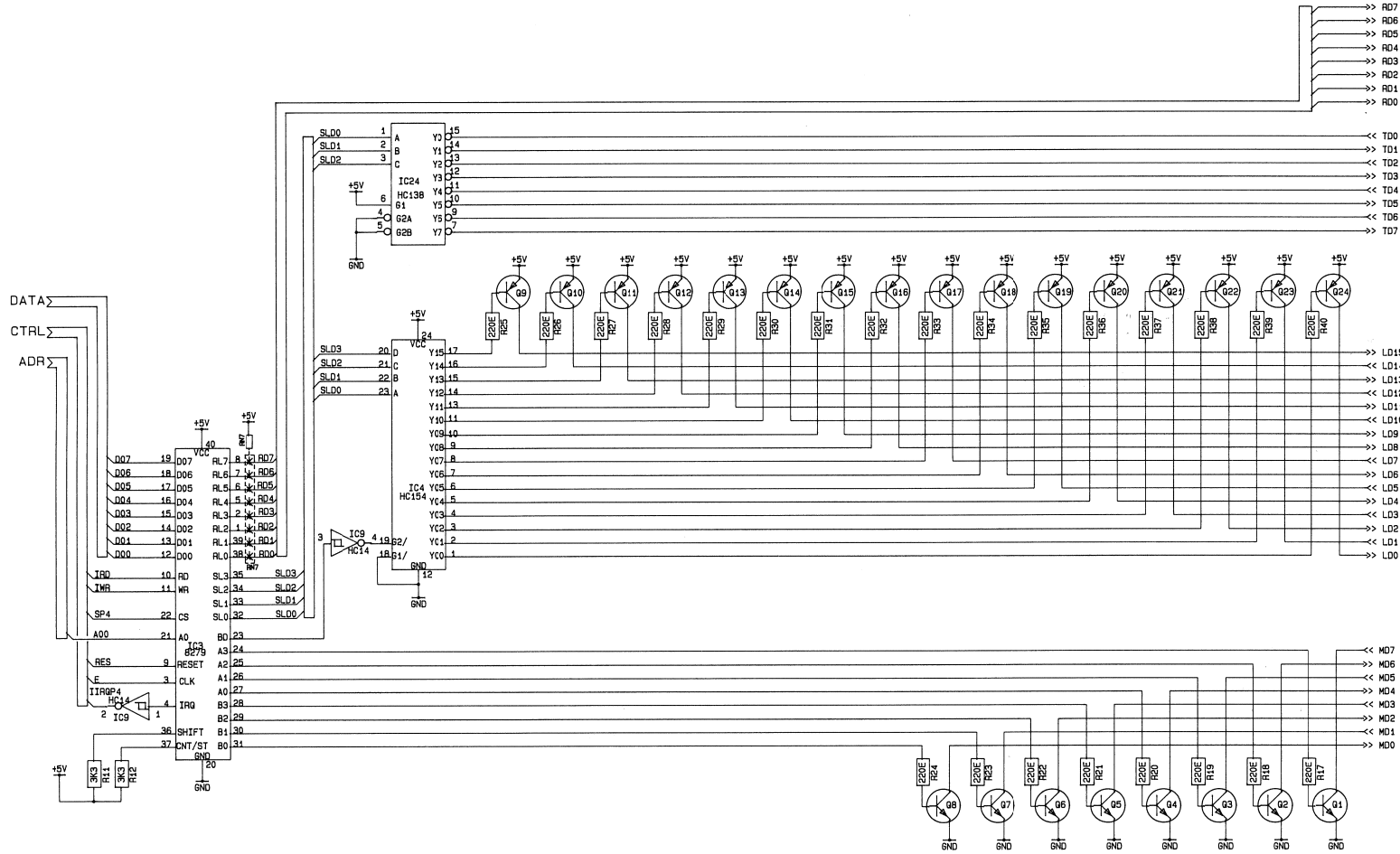


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|--------|---------|---|-------|---|-------------------------|---|----|---|--------------|---|-------------|
| ①      | 3.41.93 | ② | D 827 | ③ | Rembus Controller D 827 | ④ | SC | ⑤ | 1.328.712-20 | ⑥ | PAGE 5 OF 9 |
| STUDER |         |   |       |   |                         |   |    |   |              |   |             |



STUDER D827 MCH

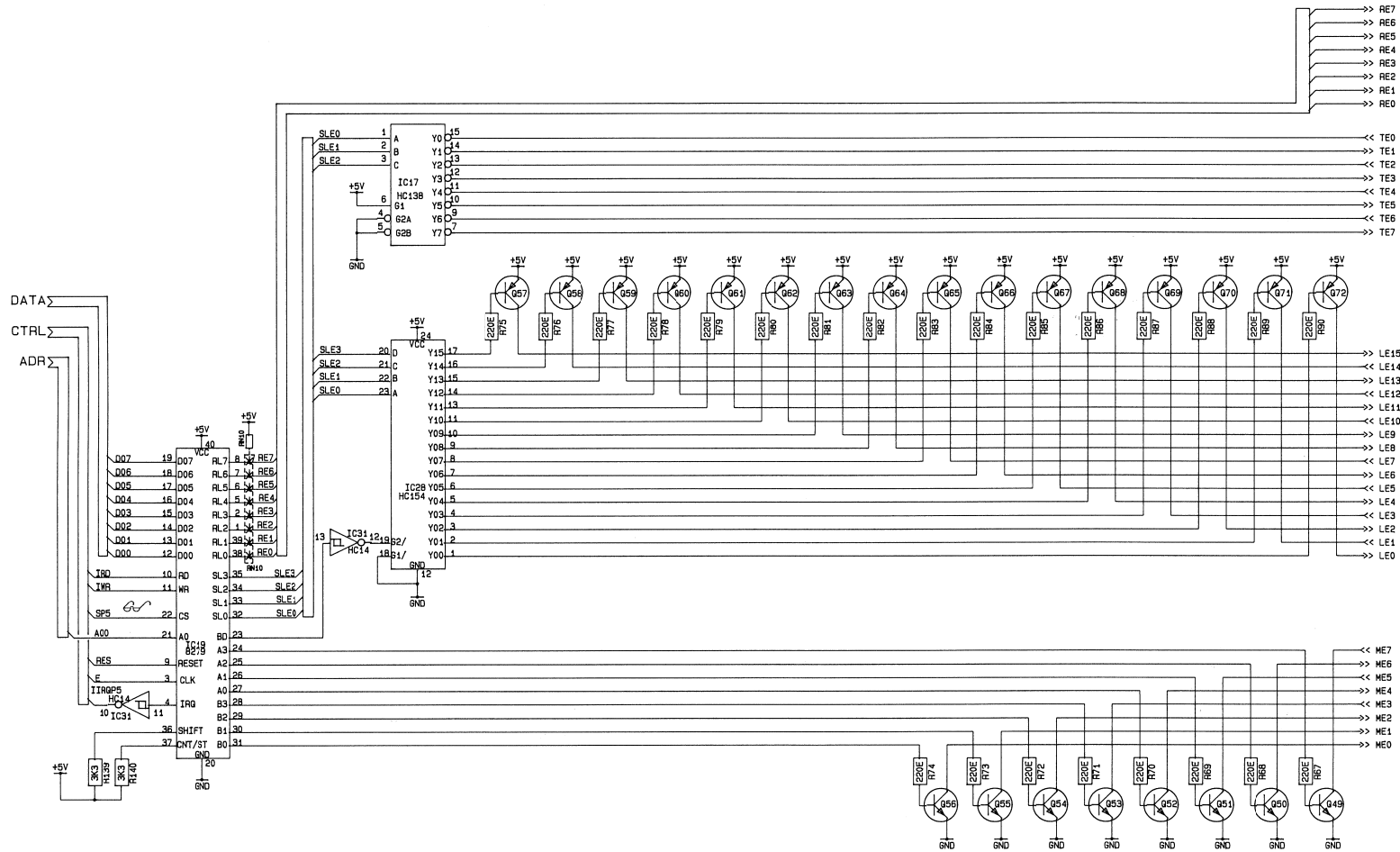
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 AUTOLOCATOR WITH SMEM 1.328.705.81 / Rembus Controller 1.328.718.21  
 -Rembus Controller 1.328.712.20 (without Software)



|           |       |                         |   |             |   |
|-----------|-------|-------------------------|---|-------------|---|
| © 3.11.93 | D 827 | ①                       | ② | ③           | ④ |
| STUDER    |       | Rembus Controller D 827 |   |             |   |
|           |       | SC                      |   | PAGE 6 OF 9 |   |
|           |       | 1.328.712 - 20          |   |             |   |

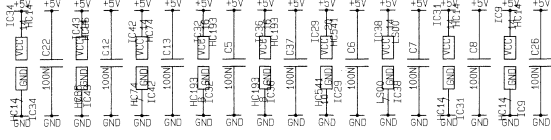
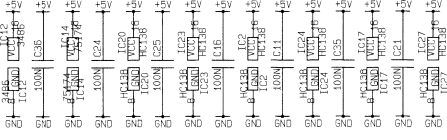
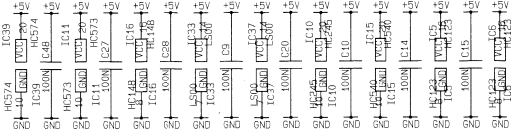
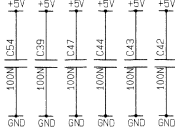
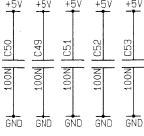
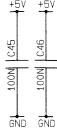
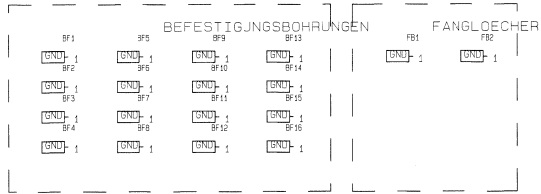
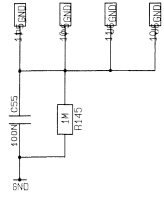
STUDER D827 MCH

CHANNEL REMOTE CONTROL (48CH) 1.328.700.81 / Rembus Controller 1.328.717.21  
 CHANNEL REMOTE CONTROL (24CH) 1.328.705.81 / Rembus Controller 1.328.717.21  
 AUTOLOCATOR WITH SMEM 1.328.705.81 / Rembus Controller 1.328.718.21  
 -Rembus Controller 1.328.712.20 (without Software)

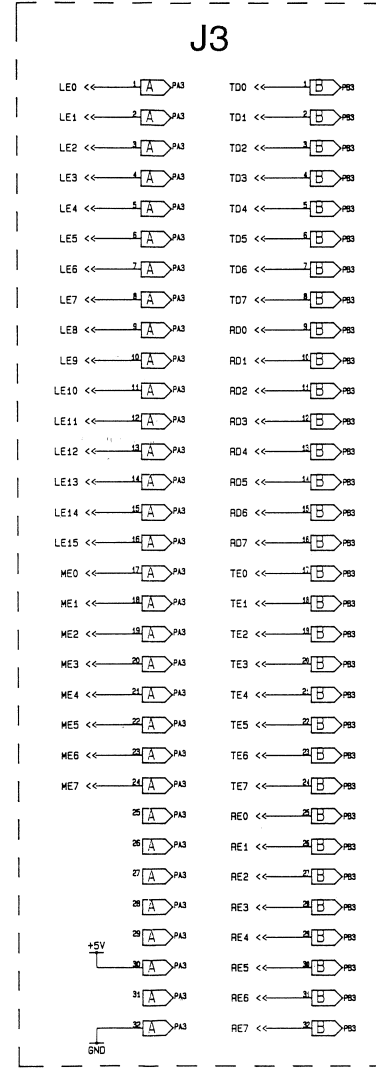
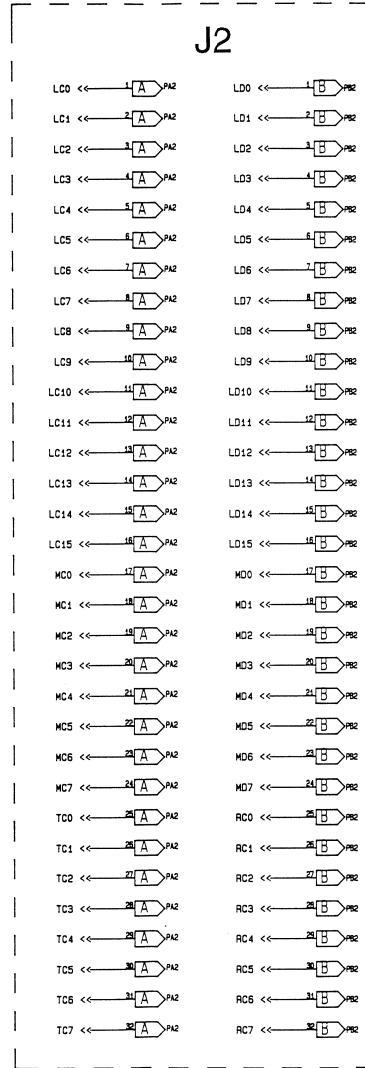
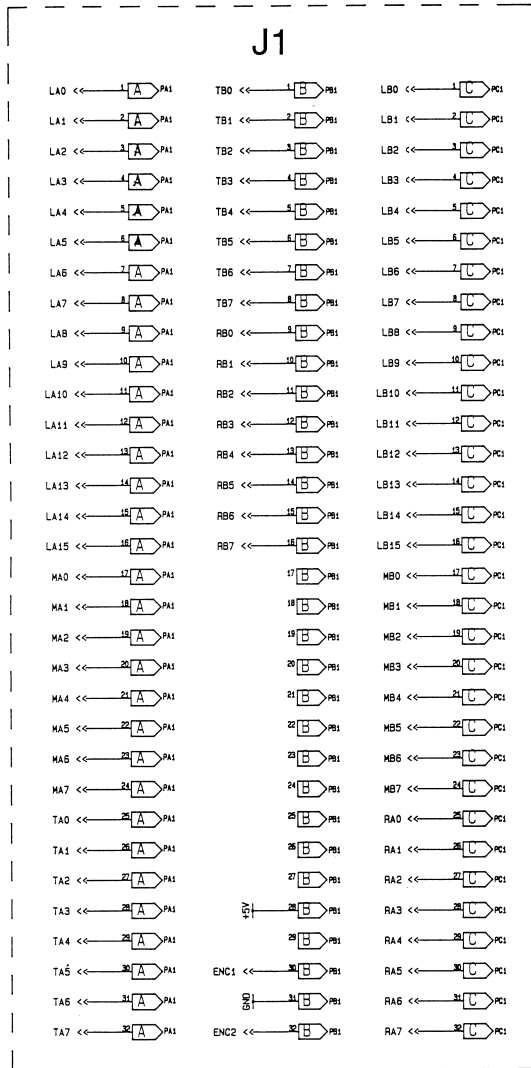


|   |         |       |                         |    |              |             |
|---|---------|-------|-------------------------|----|--------------|-------------|
| ① | 3.41.93 | D 827 | Rembus Controller D 827 | SC | 1.328.712-20 | PAGE 7 OF 9 |
| ② |         |       |                         |    |              |             |
| ③ |         |       |                         |    |              |             |
| ④ |         |       |                         |    |              |             |

CHANNEL REMOTE CONTROL (48CH) 1.328.700.81 / Rembus Controller 1.328.717.21  
 CHANNEL REMOTE CONTROL (24CH) 1.328.705.81 / Rembus Controller 1.328.717.21  
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 -Rembus Controller 1.328.712.20 (without Software)



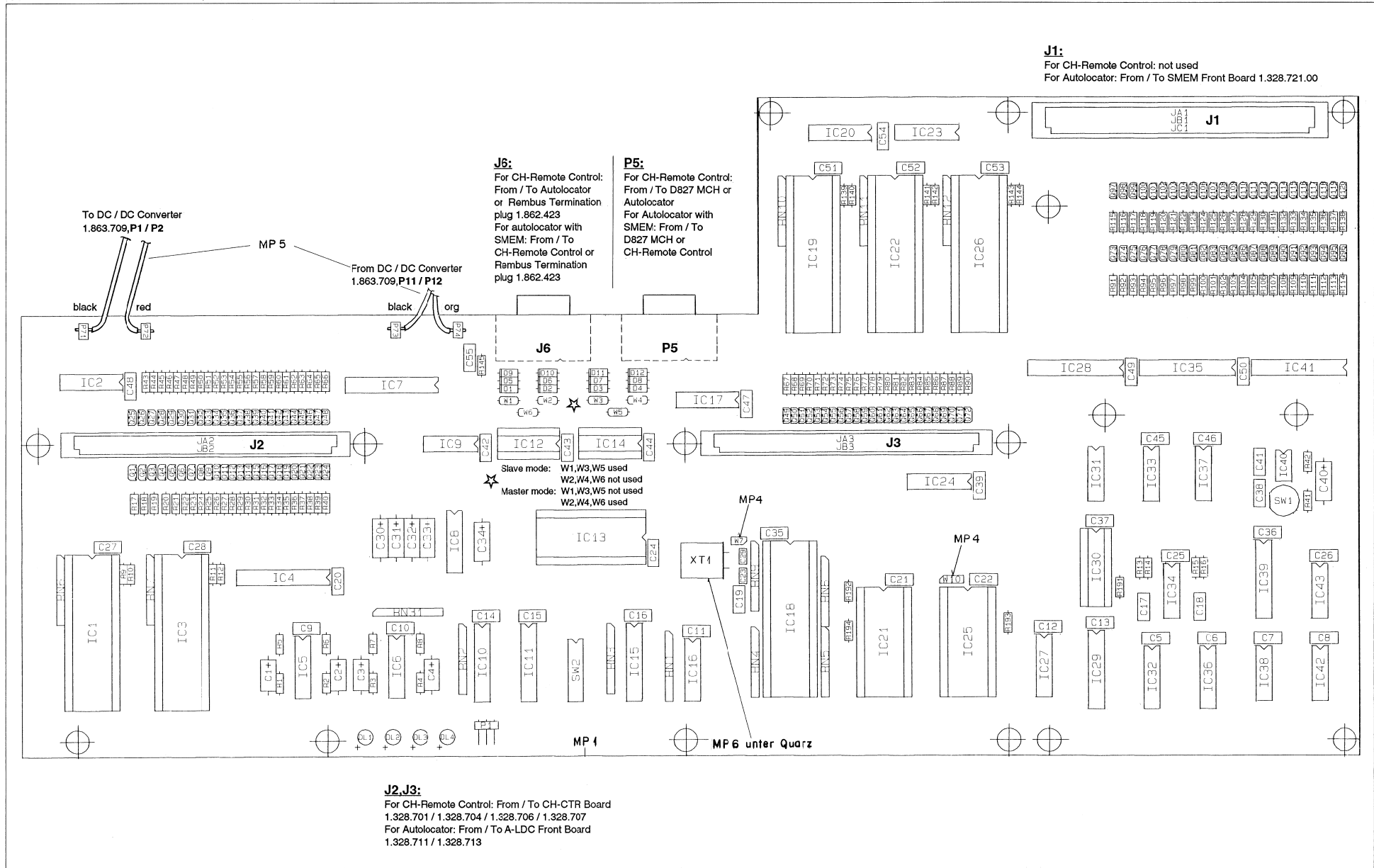
CHANNEL REMOTE CONTROL (48CH) 1.328.700.81 / Rembus Controller 1.328.717.21  
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 -Rembus Controller 1.328.712.20 (without Software)



|   |                         |              |
|---|-------------------------|--------------|
| ④ | PAGE 9 OF 9             | SC           |
| ③ | Rembus Controller D 827 | 1.328.712-20 |
| ① | STUDER                  |              |

**STUDER D827 MCH**

CHANNEL REMOTE CONTROL (48CH) 1.328.700.81 / Rembus Controller 1.328.717.21  
 CHANNEL REMOTE CONTROL (24CH) 1.328.705.81 / Rembus Controller 1.328.717.21  
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CHANNEL REMOTE CONTROL (48CH) 1.328.700.81 / Rembus Controller 1.328.717.21
CHANNEL REMOTE CONTROL (24CH) 1.328.705.81 / Rembus Controller 1.328.717.21
AUTOLOCATOR WITH SMEM 1.328.705.81 / Rembus Controller 1.328.718.21
-Rembus Controller 1.328.712.20 (without Software)



Table with columns: Ad, POS., REF.No., DESCRIPTION, MANUFACTURER. Contains multiple rows of component specifications and part numbers, including values like 10 uF, 25V, EL, and various manufacturer codes.



CHANNEL REMOTE CONTROL (48CH) 1.328.700.81 / Rembus Controller 1.328.717.21  
 CHANNEL REMOTE CONTROL (24CH) 1.328.705.81 / Rembus Controller 1.328.717.21  
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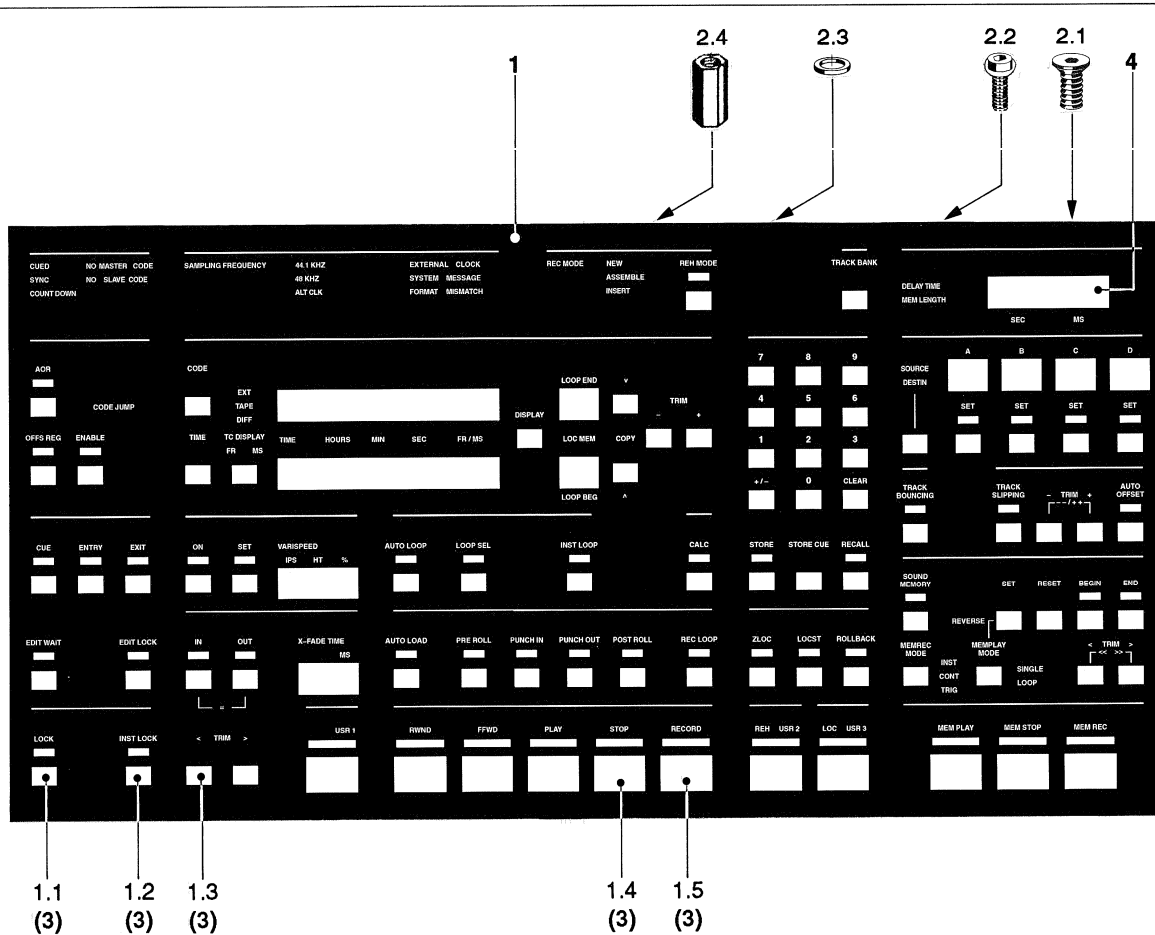
Ad ..POS.. ..REF.No... DESCRIPTION.....MANUFACTURER

|        |     |              |                        |                        |  |
|--------|-----|--------------|------------------------|------------------------|--|
| R...   | 139 | 57.11.3332   | 3.3 K                  | 1%, 0207 , MF          |  |
| R...   | 140 | 57.11.3332   | 3.3 K                  | 1%, 0207 , MF          |  |
| R...   | 141 | 57.11.3332   | 3.3 K                  | 1%, 0207 , MF          |  |
| R...   | 142 | 57.11.3332   | 3.3 K                  | 1%, 0207 , MF          |  |
| R...   | 143 | 57.11.3332   | 3.3 K                  | 1%, 0207 , MF          |  |
| R...   | 144 | 57.11.3332   | 3.3 K                  | 1%, 0207 , MF          |  |
| R...   | 145 | 57.11.3105   | 1 M                    | 1%, 0207 , MF          |  |
| R...   | 191 | 57.11.3331   | 330                    | 1%, 0207 , MF          |  |
| R...   | 192 | 57.11.3331   | 330                    | 1%, 0207 , MF          |  |
| R...   | 193 | 57.11.3331   | 330                    | 1%, 0207 , MF          |  |
| R...   | 194 | 57.11.3331   | 330                    | 1%, 0207 , MF          |  |
| RN...  | 1   | 57.88.4332   | 8 * 3.3 K              | 8 * 0.125 W, 2%, SIP 9 |  |
| RN...  | 2   | 57.88.4332   | 8 * 3.3 K              | 8 * 0.125 W, 2%, SIP 9 |  |
| RN...  | 3   | 57.88.4332   | 8 * 3.3 K              | 8 * 0.125 W, 2%, SIP 9 |  |
| RN...  | 4   | 57.88.4332   | 8 * 3.3 K              | 8 * 0.125 W, 2%, SIP 9 |  |
| RN...  | 5   | 57.88.4332   | 8 * 3.3 K              | 8 * 0.125 W, 2%, SIP 9 |  |
| RN...  | 6   | 57.88.4332   | 8 * 3.3 K              | 8 * 0.125 W, 2%, SIP 9 |  |
| RN...  | 7   | 57.88.4332   | 8 * 3.3 K              | 8 * 0.125 W, 2%, SIP 9 |  |
| RN...  | 8   | 57.88.4332   | 8 * 3.3 K              | 8 * 0.125 W, 2%, SIP 9 |  |
| RN...  | 9   | 57.88.4332   | 8 * 3.3 K              | 8 * 0.125 W, 2%, SIP 9 |  |
| RN...  | 10  | 57.88.4332   | 8 * 3.3 K              | 8 * 0.125 W, 2%, SIP 9 |  |
| RN...  | 11  | 57.88.4332   | 8 * 3.3 K              | 8 * 0.125 W, 2%, SIP 9 |  |
| RN...  | 12  | 57.88.4332   | 8 * 3.3 K              | 8 * 0.125 W, 2%, SIP 9 |  |
| RN...  | 31  | 57.88.4331   | 8 * 330                | 8 * 0.125 W, 2%, SIP 9 |  |
| SW...  | 1   | 55.15.0130   |                        | 1*A, PRINT, IMPULS     |  |
| SW...  | 2   | 55.01.0168   |                        | 8*A, DIL-SWITCH        |  |
| W....  | 1   | 57.11.3000   | 0                      | BRIDGE, 0207           |  |
| W....  | 2   | 00.00.0000   |                        | not used               |  |
| W....  | 3   | 57.11.3000   | 0                      | BRIDGE, 0207           |  |
| W....  | 4   | 00.00.0000   |                        | not used               |  |
| W....  | 5   | 57.11.3000   | 0                      | BRIDGE, 0207           |  |
| W....  | 6   | 00.00.0000   |                        | not used               |  |
| W....  | 7   | 54.01.0021   |                        | JUMPER                 |  |
| W....  | 10  | 54.01.0021   |                        | JUMPER                 |  |
| XIC... | 1   | 53.03.0172   |                        | DIL 40-POL             |  |
| XIC... | 3   | 53.03.0172   |                        | DIL 40-POL             |  |
| XIC... | 12  | 53.03.0168   |                        | DIL 16-POL             |  |
| XIC... | 13  | 53.03.0173   |                        | DIL 28-POL             |  |
| XIC... | 14  | 53.03.0168   |                        | DIL 16-POL             |  |
| XIC... | 18  | 53.03.0172   |                        | DIL 40-POL             |  |
| XIC... | 19  | 53.03.0172   |                        | DIL 40-POL             |  |
| XIC... | 21  | 53.03.0173   |                        | DIL 28-POL             |  |
| XIC... | 22  | 53.03.0172   |                        | DIL 40-POL             |  |
| XIC... | 25  | 53.03.0173   |                        | DIL 28-POL             |  |
| XIC... | 26  | 53.03.0172   |                        | DIL 40-POL             |  |
| XIC... | 30  | 53.03.0165   |                        | DIL 20-POL             |  |
| XT...  | 1   | 89.01.0560   | 4.9152MHZ              | QUARTZ                 |  |
|        |     | 1.328.712.20 | REMBUS CONTROLLER D827 | GP 93/10/2500          |  |

▲ SOFTWARE FOR CHANNEL REMOTE CONTROLLER 1.328.799.21.IN HARDWARE 1.328.717.21  
 ▲ SOFTWARE FOR AUTOLOCATOR LOCATOR 1.328.798.21.IN HARDWARE 1.328.718.21



**AUTOLOCATOR WITH SMEM 1.328.710.81**



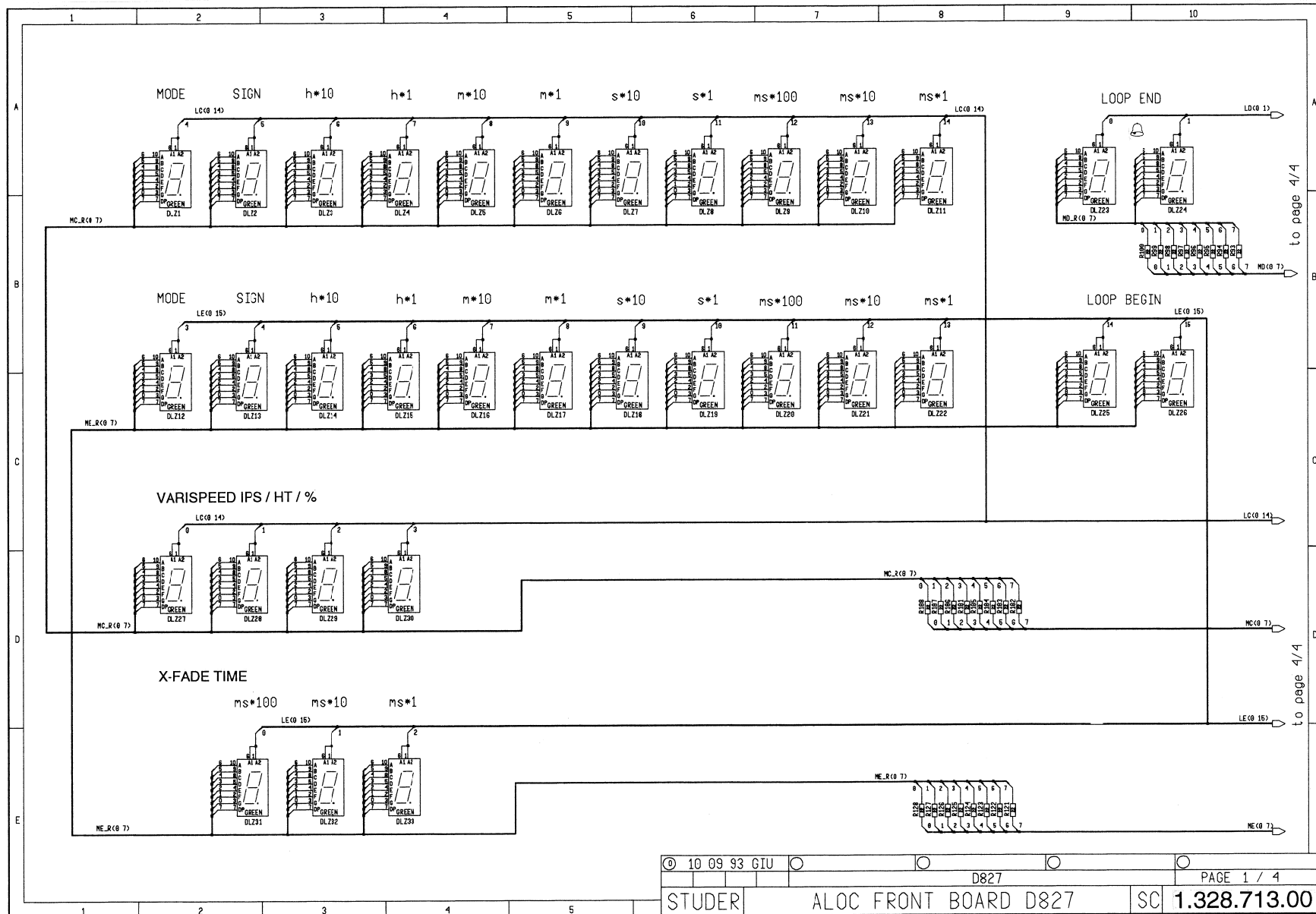
| Index | Qty. | Order No.    | Part Name                                     | Specification |
|-------|------|--------------|---|---------------|
| 1     | 1    | 1.328.710.05 | Front cover Plexiglas only, for ALOC          |               |
|       | or   | 1.328.710.40 | Panel kit (Metalframe with Plexiglas mounted) |               |
| 1.1   | 20   | 1.010.045.55 | Push button light grey                        | 9x6.5         |
| 1.2   | 6    | 1.010.050.55 | Push button red                               | 9x6.5         |
| 1.3   | 42   | 1.010.048.55 | Push button dark grey                         | 9x6.5         |
| 1.4   | 9    | 1.010.046.55 | Push button light grey                        | 19x13         |
| 1.5   | 2    | 1.010.051.55 | Push button red                               | 19x13         |
| 2.1   | 11   | 21.53.2354   | Counter sunk screw                            | M3x6          |
| 2.2   | 22   | 21.53.9354   | Chees head screw with lock washer             | M3x6          |
| 2.3   | 17   | 24.16.1030   | Fin washer                                    | D3.2/5.5      |
|       | 4    | 24.16.2030   | Star washer                                   | D3.2          |
| 2.4   | 13   | 1.010.225.27 | Hexagon bolt                                  | M3/M3x16      |
| 3     | 57   | 55.15.0531   | Pulse switch                                  |               |
| 4     | 26   | 73.01.0134   | 7-Segment Display IC green                    | 7.6mm         |

**Connection cable:**

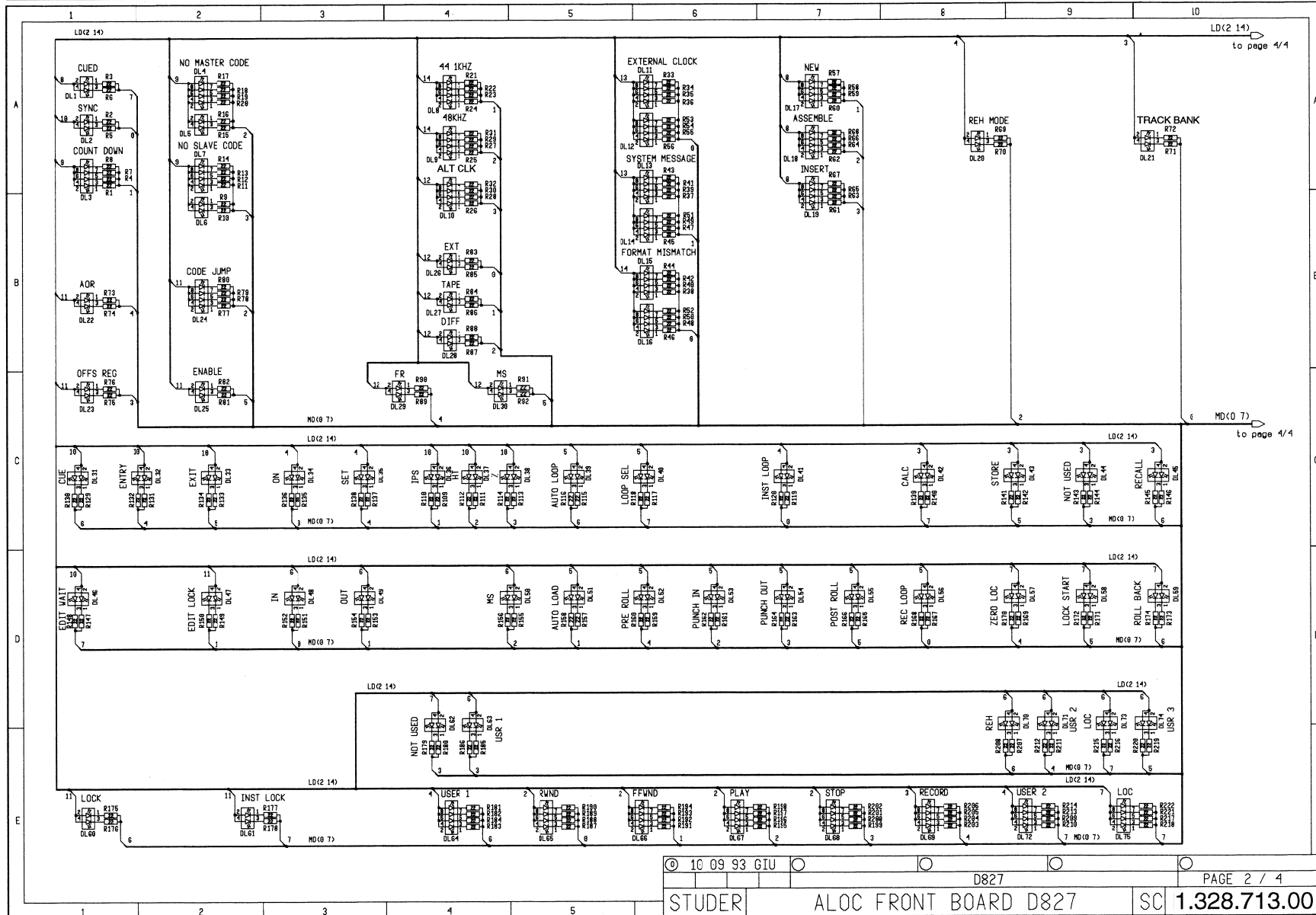
| Index | Qty. | Order No.    | Part Name                             | Specification |
|-------|------|--------------|---------------------------------------|---------------|
|       | 1    | 1.862.421.00 | 9 pin cable to D827 MCH               | 15m           |
|       | or   | 1.862.420.00 | 9 pin cable to Channel remote control | 0.6m          |

STUDER D827 MCH

AUTOLOCATOR WITH SMEM 1.328.710.81  
-ALOC Front Board 1.328.713.00

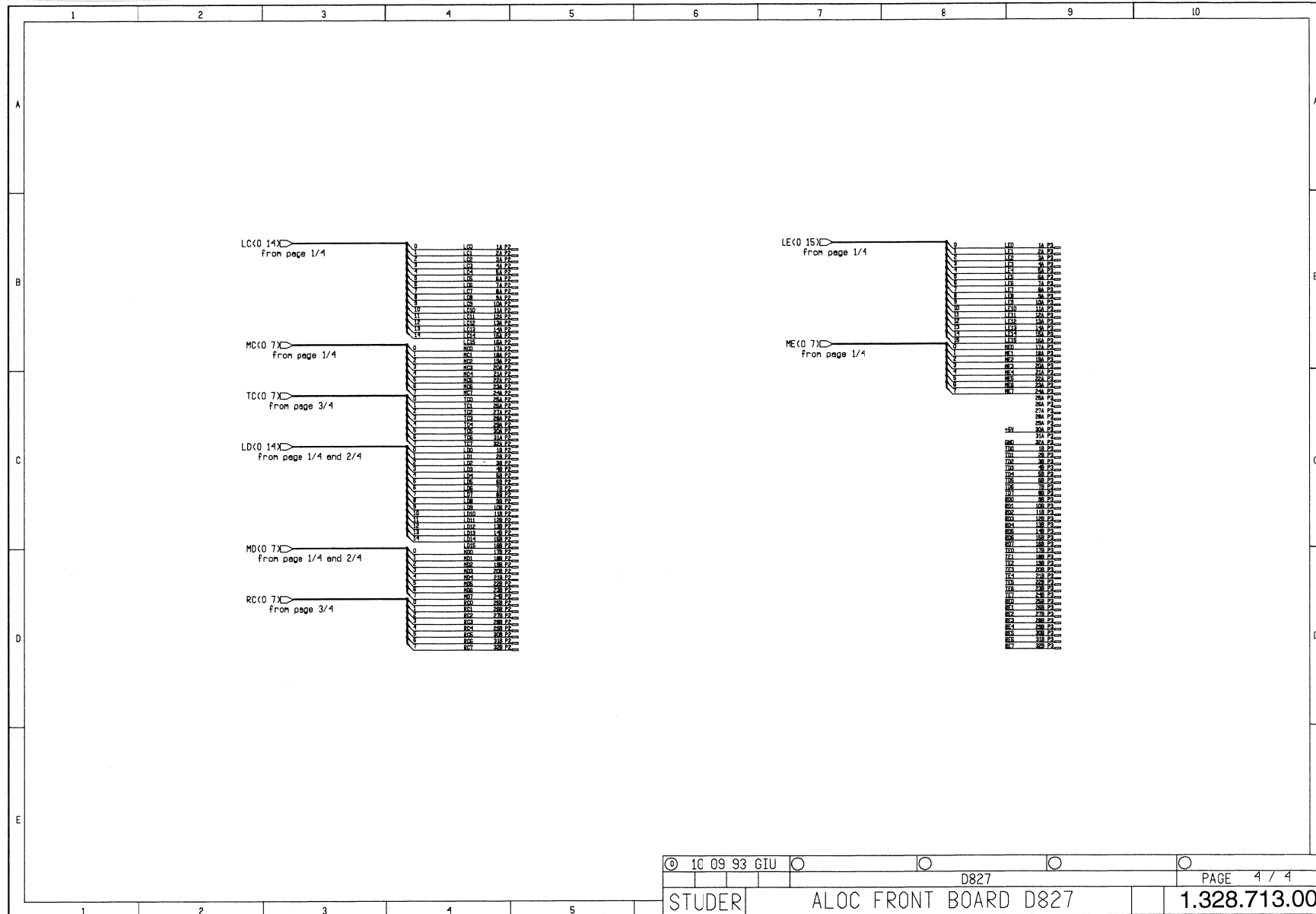


AUTOLOCATOR WITH SMEM 1.328.710.81  
-ALOC Front Board 1.328.713.00





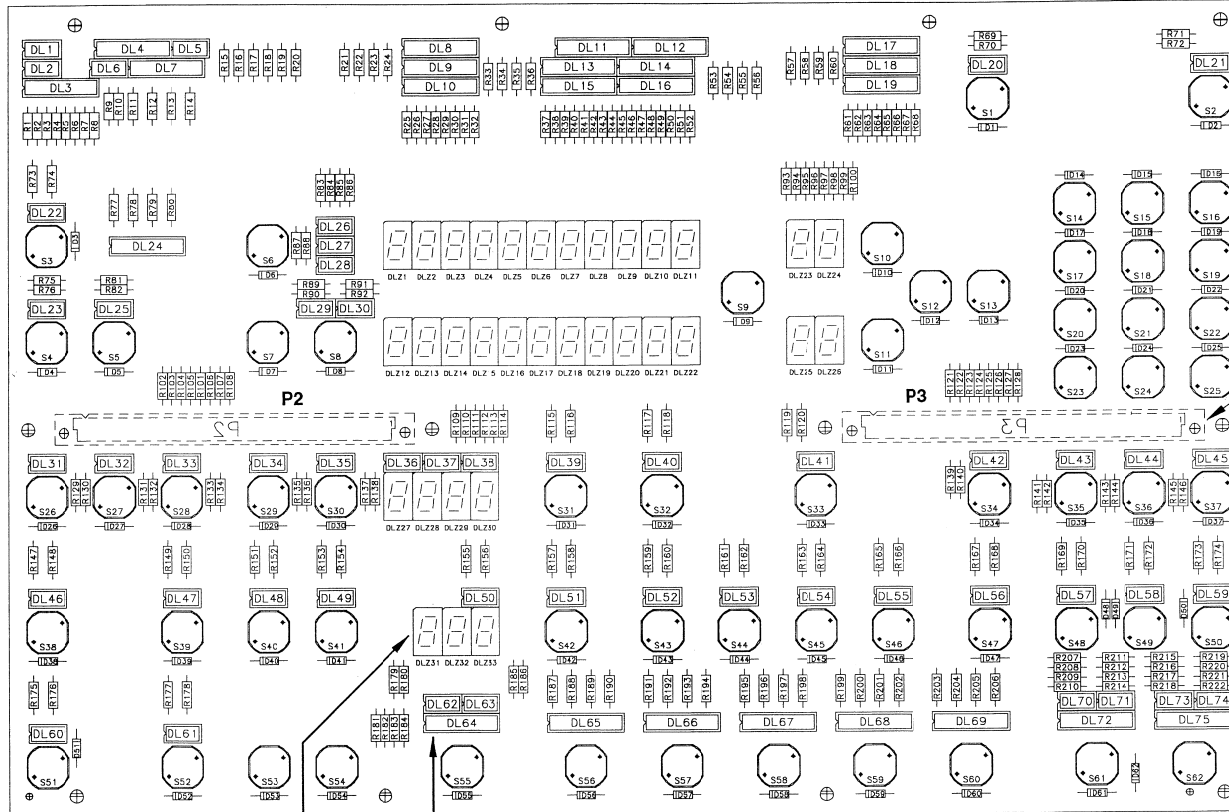
AUTOLOCATOR WITH SMEM 1.328.710.81  
 -ALOC Front Board 1.328.713.00



# STUDER D827 MCH

## AUTOLOCATOR WITH SMEM 1.328.710.81

-ALOC Front Board 1.328.713.00



P2, P3:  
FROM/ TO REMBUS CONTROLLER 1.328.712

ALOC FRONT BOARD  
1.328.713.00

Ad ...POS... REF.No... DESCRIPTION... MANUFACTURER

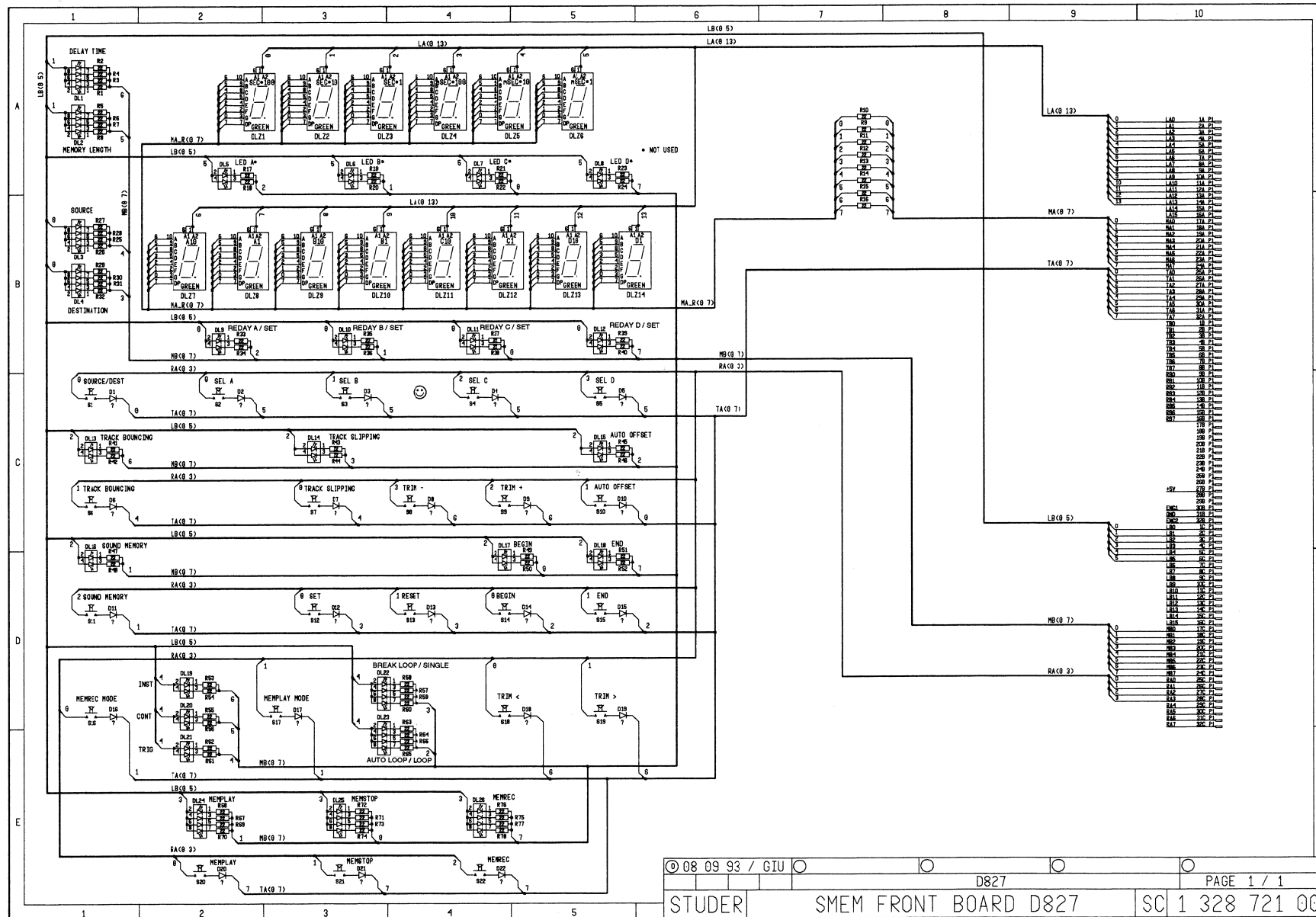
|         |            |          |                       |
|---------|------------|----------|-----------------------|
| DL...1  | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...2  | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...3  | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...4  | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...5  | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...6  | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...7  | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...8  | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...9  | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...10 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...11 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...12 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...13 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...14 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...15 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...16 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...17 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...18 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...19 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...20 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...21 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...22 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...23 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...24 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...25 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...26 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...27 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...28 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...29 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...30 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...31 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...32 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...33 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...34 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...35 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...36 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...37 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...38 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...39 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...40 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...41 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...42 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...43 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...44 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...45 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...46 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...47 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...48 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...49 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...50 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...51 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...52 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...53 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...54 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...55 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...56 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...57 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...58 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...59 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...60 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...61 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...62 | 50.04.0125 | IN 4448  | 75V, 0.15A, SI        |
| DL...1  | 50.04.2803 | HMP-2500 | LED LIGHT BARS, 2*grn |
| DL...2  | 50.04.2803 | HMP-2500 | LED LIGHT BARS, 2*grn |
| DL...3  | 50.04.2801 | HMP-2450 | LED LIGHT BARS, 4*yel |
| DL...4  | 50.04.2153 | HMP-2350 | LED LIGHT BARS, 4*red |
| DL...5  | 50.04.2805 | HMP-2300 | LED LIGHT BARS, 2*red |
| DL...6  | 50.04.2805 | HMP-2300 | LED LIGHT BARS, 2*red |
| DL...7  | 50.04.2153 | HMP-2350 | LED LIGHT BARS, 4*red |
| DL...8  | 50.04.2801 | HMP-2450 | LED LIGHT BARS, 4*yel |
| DL...9  | 50.04.2801 | HMP-2450 | LED LIGHT BARS, 4*yel |
| DL...10 | 50.04.2801 | HMP-2450 | LED LIGHT BARS, 4*yel |
| DL...11 | 50.04.2801 | HMP-2450 | LED LIGHT BARS, 4*yel |
| DL...12 | 50.04.2801 | HMP-2450 | LED LIGHT BARS, 4*yel |
| DL...13 | 50.04.2153 | HMP-2350 | LED LIGHT BARS, 4*red |
| DL...14 | 50.04.2153 | HMP-2350 | LED LIGHT BARS, 4*red |
| DL...15 | 50.04.2153 | HMP-2350 | LED LIGHT BARS, 4*red |
| DL...16 | 50.04.2153 | HMP-2350 | LED LIGHT BARS, 4*red |
| DL...17 | 50.04.2801 | HMP-2450 | LED LIGHT BARS, 4*yel |
| DL...18 | 50.04.2801 | HMP-2450 | LED LIGHT BARS, 4*yel |
| DL...19 | 50.04.2801 | HMP-2450 | LED LIGHT BARS, 4*yel |
| DL...20 | 50.04.2804 | HMP-2400 | LED LIGHT BARS, 2*yel |
| DL...21 | 00.00.0000 |          | not used              |
| DL...22 | 50.04.2804 | HMP-2400 | LED LIGHT BARS, 2*yel |
| DL...23 | 50.04.2804 | HMP-2400 | LED LIGHT BARS, 2*yel |
| DL...24 | 50.04.2153 | HMP-2350 | LED LIGHT BARS, 4*red |
| DL...25 | 50.04.2804 | HMP-2400 | LED LIGHT BARS, 2*yel |
| DL...26 | 50.04.2804 | HMP-2400 | LED LIGHT BARS, 2*yel |
| DL...27 | 50.04.2804 | HMP-2400 | LED LIGHT BARS, 2*yel |
| DL...28 | 50.04.2804 | HMP-2400 | LED LIGHT BARS, 2*yel |
| DL...29 | 50.04.2804 | HMP-2400 | LED LIGHT BARS, 2*yel |
| DL...30 | 50.04.2804 | HMP-2400 | LED LIGHT BARS, 2*yel |
| DL...31 | 50.04.2804 | HMP-2400 | LED LIGHT BARS, 2*yel |
| DL...32 | 50.04.2804 | HMP-2400 | LED LIGHT BARS, 2*yel |
| DL...33 | 50.04.2804 | HMP-2400 | LED LIGHT BARS, 2*yel |
| DL...34 | 50.04.2805 | HMP-2300 | LED LIGHT BARS, 2*red |

| Ref. No. | Part No. | Part Name | QTY | Unit | Notes |
|----------|----------|-----------|-----|------|-------|
| 31.01.94 | CIU      | AVO       | 1   | WSI  |       |
| 15.12.93 | CIU      | AVO       | 1   | WSI  |       |



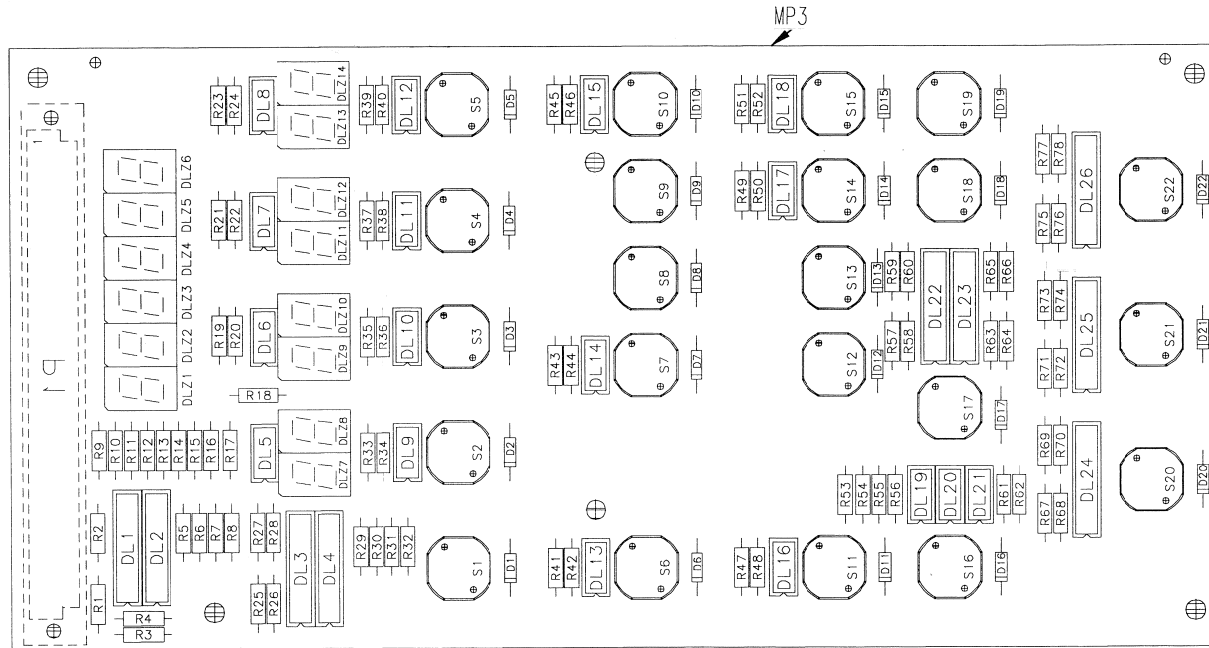
STUDER D827 MCH

AUTOLOCATOR WITH SMSM 1.328.710.81  
 -SMEM Front Board 1.328.721.00





AUTOLOCATOR WITH SMSM 1.328.710.81  
-SMEM Front Board 1.328.721.00



Ad . . . POS. . . . REF.No. . . . DESCRIPTION . . . . . MANUFACTURER

|              |                       |     |                     |    |
|--------------|-----------------------|-----|---------------------|----|
| R...11       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...12       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...13       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...14       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...15       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...16       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...17       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...18       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...19       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...20       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...21       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...22       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...23       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...24       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...25       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...26       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...27       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...28       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...29       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...30       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...31       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...32       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...33       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...34       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...35       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...36       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...37       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...38       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...39       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...40       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...41       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...42       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...43       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...44       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...45       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...46       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...47       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...48       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...49       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...50       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...51       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...52       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...53       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...54       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...55       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...56       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...57       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...58       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...59       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...60       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...61       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...62       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...63       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...64       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...65       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...66       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...67       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...68       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...69       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...70       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...71       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...72       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...73       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...74       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...75       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...76       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...77       | 57.11.3220            | 22  | 1%, 0207            | MF |
| R...78       | 57.11.3220            | 22  | 1%, 0207            | MF |
| S...1        | 55.15.0531            | 1*A | Push button, Impuls |    |
| S...2        | 55.15.0531            | 1*A | Push button, Impuls |    |
| S...3        | 55.15.0531            | 1*A | Push button, Impuls |    |
| S...4        | 55.15.0531            | 1*A | Push button, Impuls |    |
| S...5        | 55.15.0531            | 1*A | Push button, Impuls |    |
| S...6        | 55.15.0531            | 1*A | Push button, Impuls |    |
| S...7        | 55.15.0531            | 1*A | Push button, Impuls |    |
| S...8        | 55.15.0531            | 1*A | Push button, Impuls |    |
| S...9        | 55.15.0531            | 1*A | Push button, Impuls |    |
| S...10       | 55.15.0531            | 1*A | Push button, Impuls |    |
| S...11       | 55.15.0531            | 1*A | Push button, Impuls |    |
| S...12       | 55.15.0531            | 1*A | Push button, Impuls |    |
| S...13       | 55.15.0531            | 1*A | Push button, Impuls |    |
| S...14       | 55.15.0531            | 1*A | Push button, Impuls |    |
| S...15       | 55.15.0531            | 1*A | Push button, Impuls |    |
| S...16       | 55.15.0531            | 1*A | Push button, Impuls |    |
| S...17       | 55.15.0531            | 1*A | Push button, Impuls |    |
| S...18       | 55.15.0531            | 1*A | Push button, Impuls |    |
| S...19       | 55.15.0531            | 1*A | Push button, Impuls |    |
| S...20       | 55.15.0531            | 1*A | Push button, Impuls |    |
| S...21       | 55.15.0531            | 1*A | Push button, Impuls |    |
| S...22       | 55.15.0531            | 1*A | Push button, Impuls |    |
| 1.328.721.00 | SMEM FRONT BOARD D827 |     | GP 93/09/0700       |    |
| 1.328.721.00 | SMEM FRONT BOARD D827 |     | GP 94/01/3101       |    |

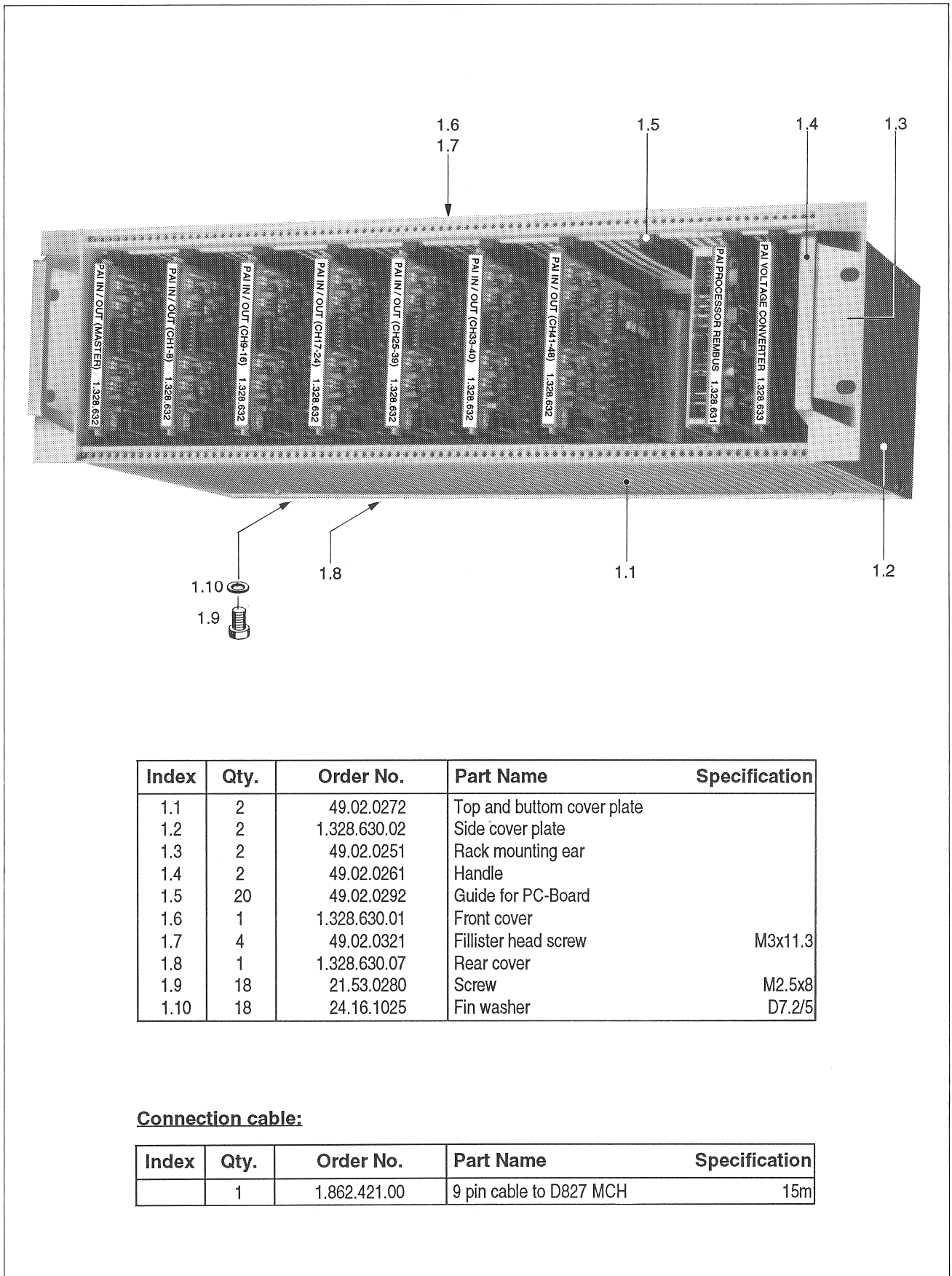
Ad . . . POS. . . . REF.No. . . . DESCRIPTION . . . . . MANUFACTURER

|         |            |          |                       |  |
|---------|------------|----------|-----------------------|--|
| D...1   | 50.04.2125 | IN 4448  | 75V, 0.15A, SI        |  |
| D...2   | 50.04.2125 | IN 4448  | 75V, 0.15A, SI        |  |
| D...3   | 50.04.2125 | IN 4448  | 75V, 0.15A, SI        |  |
| D...4   | 50.04.2125 | IN 4448  | 75V, 0.15A, SI        |  |
| D...5   | 50.04.2125 | IN 4448  | 75V, 0.15A, SI        |  |
| D...6   | 50.04.2125 | IN 4448  | 75V, 0.15A, SI        |  |
| D...7   | 50.04.2125 | IN 4448  | 75V, 0.15A, SI        |  |
| D...8   | 50.04.2125 | IN 4448  | 75V, 0.15A, SI        |  |
| D...9   | 50.04.2125 | IN 4448  | 75V, 0.15A, SI        |  |
| D...10  | 50.04.2125 | IN 4448  | 75V, 0.15A, SI        |  |
| D...11  | 50.04.2125 | IN 4448  | 75V, 0.15A, SI        |  |
| D...12  | 50.04.2125 | IN 4448  | 75V, 0.15A, SI        |  |
| D...13  | 50.04.2125 | IN 4448  | 75V, 0.15A, SI        |  |
| D...14  | 50.04.2125 | IN 4448  | 75V, 0.15A, SI        |  |
| D...15  | 50.04.2125 | IN 4448  | 75V, 0.15A, SI        |  |
| D...16  | 50.04.2125 | IN 4448  | 75V, 0.15A, SI        |  |
| D...17  | 50.04.2125 | IN 4448  | 75V, 0.15A, SI        |  |
| D...18  | 50.04.2125 | IN 4448  | 75V, 0.15A, SI        |  |
| D...19  | 50.04.2125 | IN 4448  | 75V, 0.15A, SI        |  |
| D...20  | 50.04.2125 | IN 4448  | 75V, 0.15A, SI        |  |
| D...21  | 50.04.2125 | IN 4448  | 75V, 0.15A, SI        |  |
| D...22  | 50.04.2125 | IN 4448  | 75V, 0.15A, SI        |  |
| DL...1  | 50.04.2801 | HMP-2450 | LED LIGHT BARS, 4*yel |  |
| DL...2  | 50.04.2801 | HMP-2450 | LED LIGHT BARS, 4*yel |  |
| DL...3  | 50.04.2801 | HMP-2450 | LED LIGHT BARS, 4*yel |  |
| DL...4  | 50.04.2801 | HMP-2450 | LED LIGHT BARS, 4*yel |  |
| DL...5  | 00.00.0000 |          | not used              |  |
| DL...6  | 00.00.0000 |          | not used              |  |
| DL...7  | 00.00.0000 |          | not used              |  |
| DL...8  | 00.00.0000 |          | not used              |  |
| DL...9  | 50.04.2803 | HMP-2500 | LED LIGHT BARS, 2*grn |  |
| DL...10 | 50.04.2803 | HMP-2500 | LED LIGHT BARS, 2*grn |  |
| DL...11 | 50.04.2803 | HMP-2500 | LED LIGHT BARS, 2*grn |  |
| DL...12 | 50.04.2803 | HMP-2500 | LED LIGHT BARS, 2*grn |  |
| DL...13 | 50.04.2804 | HMP-2400 | LED LIGHT BARS, 2*yel |  |
| DL...14 | 50.04.2804 | HMP-2400 | LED LIGHT BARS, 2*yel |  |
| DL...15 | 50.04.2804 | HMP-2400 | LED LIGHT BARS, 2*yel |  |
| DL...16 | 50.04.2804 | HMP-2400 | LED LIGHT BARS, 2*yel |  |
| DL...17 | 50.04.2804 | HMP-2400 | LED LIGHT BARS, 2*yel |  |
| DL...18 | 50.04.2804 | HMP-2400 | LED LIGHT BARS, 2*yel |  |
| DL...19 | 50.04.2804 | HMP-2400 | LED LIGHT BARS, 2*yel |  |
| DL...20 | 50.04.2804 | HMP-2400 | LED LIGHT BARS, 2*yel |  |

Ad . . . POS. . . . REF.No. . . . DESCRIPTION . . . . . MANUFACTURER

|          |              |          |                                 |    |
|----------|--------------|----------|---------------------------------|----|
| DL...21  | 50.04.2804   | HMP-2400 | LED LIGHT BARS, 2*yel           |    |
| DL...22  | 50.04.2801   | HMP-2450 | LED LIGHT BARS, 4*yel           |    |
| DL...23  | 50.04.2801   | HMP-2450 | LED LIGHT BARS, 4*yel           |    |
| DL...24  | 50.04.2801   | HMP-2450 | LED LIGHT BARS, 4*yel           |    |
| DL...25  | 50.04.2801   | HMP-2450 | LED LIGHT BARS, 4*yel           |    |
| DL...26  | 50.04.2153   | HMP-2350 | LED LIGHT BARS, 4*red           |    |
| DLZ...1  | 73.01.0134   |          | 7-SEGM.-DISPLAY LED, grn, 7.6mm |    |
| DLZ...2  | 73.01.0134   |          | 7-SEGM.-DISPLAY LED, grn, 7.6mm |    |
| DLZ...3  | 73.01.0134   |          | 7-SEGM.-DISPLAY LED, grn, 7.6mm |    |
| DLZ...4  | 73.01.0134   |          | 7-SEGM.-DISPLAY LED, grn, 7.6mm |    |
| DLZ...5  | 73.01.0134   |          | 7-SEGM.-DISPLAY LED, grn, 7.6mm |    |
| DLZ...6  | 73.01.0134   |          | 7-SEGM.-DISPLAY LED, grn, 7.6mm |    |
| DLZ...7  | 73.01.0134   |          | 7-SEGM.-DISPLAY LED, grn, 7.6mm |    |
| DLZ...8  | 73.01.0134   |          | 7-SEGM.-DISPLAY LED, grn, 7.6mm |    |
| DLZ...9  | 73.01.0134   |          | 7-SEGM.-DISPLAY LED, grn, 7.6mm |    |
| DLZ...10 | 73.01.0134   |          | 7-SEGM.-DISPLAY LED, grn, 7.6mm |    |
| DLZ...11 | 73.01.0134   |          | 7-SEGM.-DISPLAY LED, grn, 7.6mm |    |
| DLZ...12 | 73.01.0134   |          | 7-SEGM.-DISPLAY LED, grn, 7.6mm |    |
| DLZ...13 | 73.01.0134   |          | 7-SEGM.-DISPLAY LED, grn, 7.6mm |    |
| DLZ...14 | 73.01.0134   |          | 7-SEGM.-DISPLAY LED, grn, 7.6mm |    |
| MP...1   | 53.05.0220   | 280 pcs  | XDL single, 1 pce = 1 pin       |    |
| MP...2   | 53.05.0220   | 140 pcs  | XDL single, 1 pce = 1 pin       |    |
| MP...3   | 1.328.721.01 | 1 pce    | NR-Label, 5 * 20                |    |
| MP...4   | 53.05.0227   | 140 pcs  | XDLZ single, 1 pce = 1 pin      |    |
| P...1    | 54.11.2601   |          | EU-Q 3 * 32 ACTION              |    |
| R...1    | 57.11.3220   | 22       | 1%, 0207                        | MF |
| R...2    | 57.11.3220   | 22       | 1%, 0207                        | MF |
| R...3    | 57.11.3220   | 22       | 1%, 0207                        | MF |
| R...4    | 57.11.3220   | 22       | 1%, 0207                        | MF |
| R...5    | 57.11.3220   | 22       | 1%, 0207                        | MF |
| R...6    | 57.11.3220   | 22       | 1%, 0207                        | MF |
| R...7    | 57.11.3220   | 22       | 1%, 0207                        | MF |
| R...8    | 57.11.3220   | 22       | 1%, 0207                        | MF |
| R...9    | 57.11.3220   | 22       | 1%, 0207                        | MF |
| R...10   | 57.11.3220   | 22       | 1%, 0207                        | MF |

PARALLEL AUDIO INTERFACE (PAI) 1.328.630.00



| Index | Qty. | Order No.    | Part Name                  | Specification |
|-------|------|--------------|----------------------------|---------------|
| 1.1   | 2    | 49.02.0272   | Top and bottom cover plate |               |
| 1.2   | 2    | 1.328.630.02 | Side cover plate           |               |
| 1.3   | 2    | 49.02.0251   | Rack mounting ear          |               |
| 1.4   | 2    | 49.02.0261   | Handle                     |               |
| 1.5   | 20   | 49.02.0292   | Guide for PC-Board         |               |
| 1.6   | 1    | 1.328.630.01 | Front cover                |               |
| 1.7   | 4    | 49.02.0321   | Fillister head screw       | M3x11.3       |
| 1.8   | 1    | 1.328.630.07 | Rear cover                 |               |
| 1.9   | 18   | 21.53.0280   | Screw                      | M2.5x8        |
| 1.10  | 18   | 24.16.1025   | Fin washer                 | D7.2/5        |

Connection cable:

| Index | Qty. | Order No.    | Part Name               | Specification |
|-------|------|--------------|-------------------------|---------------|
|       | 1    | 1.862.421.00 | 9 pin cable to D827 MCH | 15m           |

# STUDER D827 MCH

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## PARALLEL AUDIO INTERFACE (PAI) 1.328.630.00

-Labels

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|                            |                            |                             |                              |                              |
|----------------------------|----------------------------|-----------------------------|------------------------------|------------------------------|
| 1.328.632<br>I/O<br>MASTER | 1.328.632<br>I/O<br>CH 1-8 | 1.328.632<br>I/O<br>CH 9-16 | 1.328.632<br>I/O<br>CH 17-24 | 1.328.632<br>I/O<br>CH 25-32 |
|----------------------------|----------------------------|-----------------------------|------------------------------|------------------------------|

|                              |                              |                             |                     |                                   |
|------------------------------|------------------------------|-----------------------------|---------------------|-----------------------------------|
| 1.328.632<br>I/O<br>CH 33-40 | 1.328.632<br>I/O<br>CH 41-48 | 1.328.632<br>I/O<br>RESERVE | 1.328.631<br>REMBUS | 1.328.633<br>VOLTAGE<br>CONVERTER |
|------------------------------|------------------------------|-----------------------------|---------------------|-----------------------------------|

Label Strip

**Order No. 1.328.630.05**

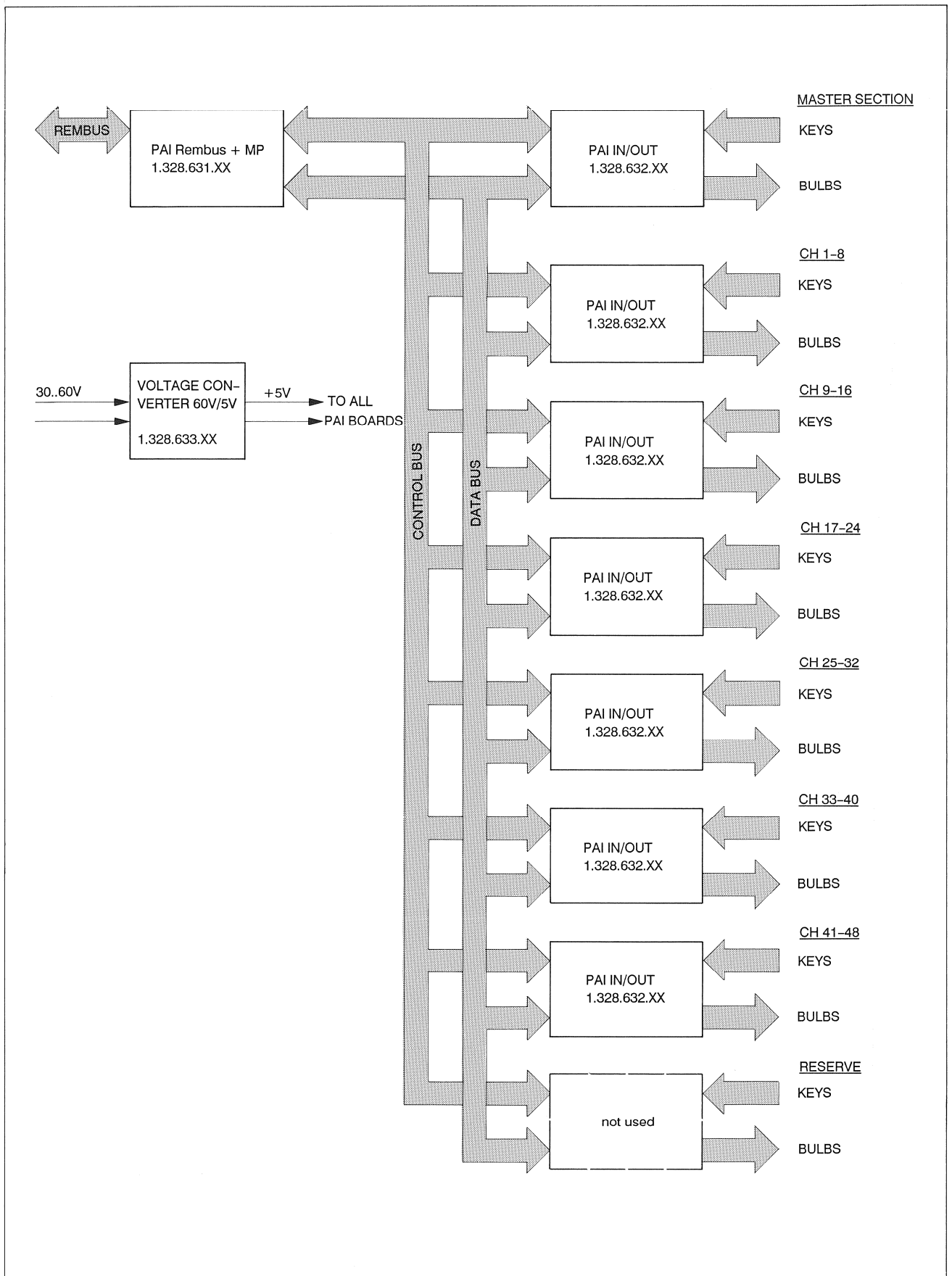
|        |         |             |             |             |             |            |           |        |
|--------|---------|-------------|-------------|-------------|-------------|------------|-----------|--------|
| REMBUS | RESERVE | AUDIO 41-48 | AUDIO 33-40 | AUDIO 25-32 | AUDIO 17-24 | AUDIO 9-16 | AUDIO 1-8 | MASTER |
|--------|---------|-------------|-------------|-------------|-------------|------------|-----------|--------|

Connector Label

**Order No. 1.328.630.08**

**BLOCK DIAGRAM**

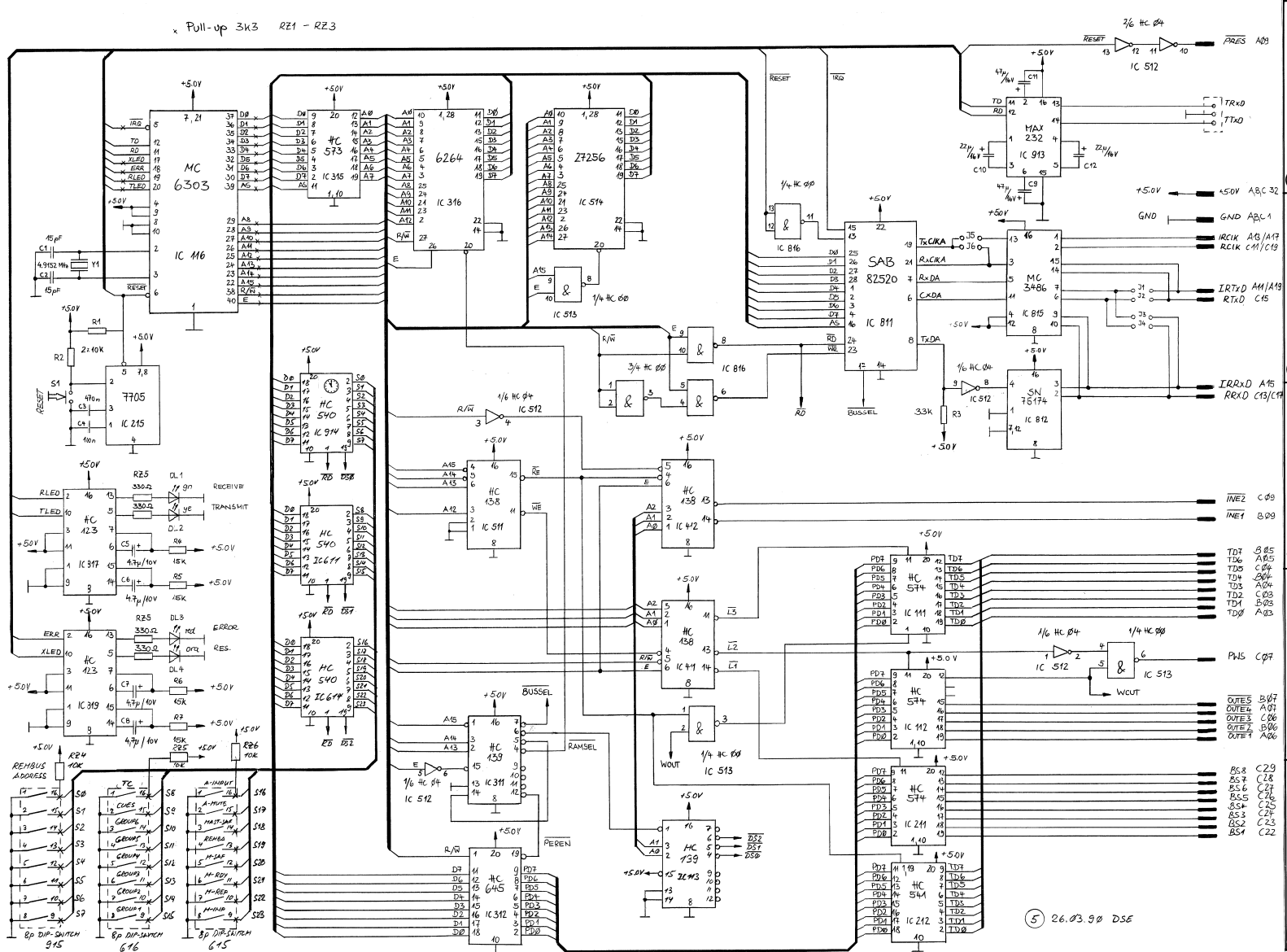
Parallel Audio Interface 1.328.630





PARALLEL AUDIO INTERFACE 1.328.630.00  
-PAI Rembus + Processor 1.328.631.21

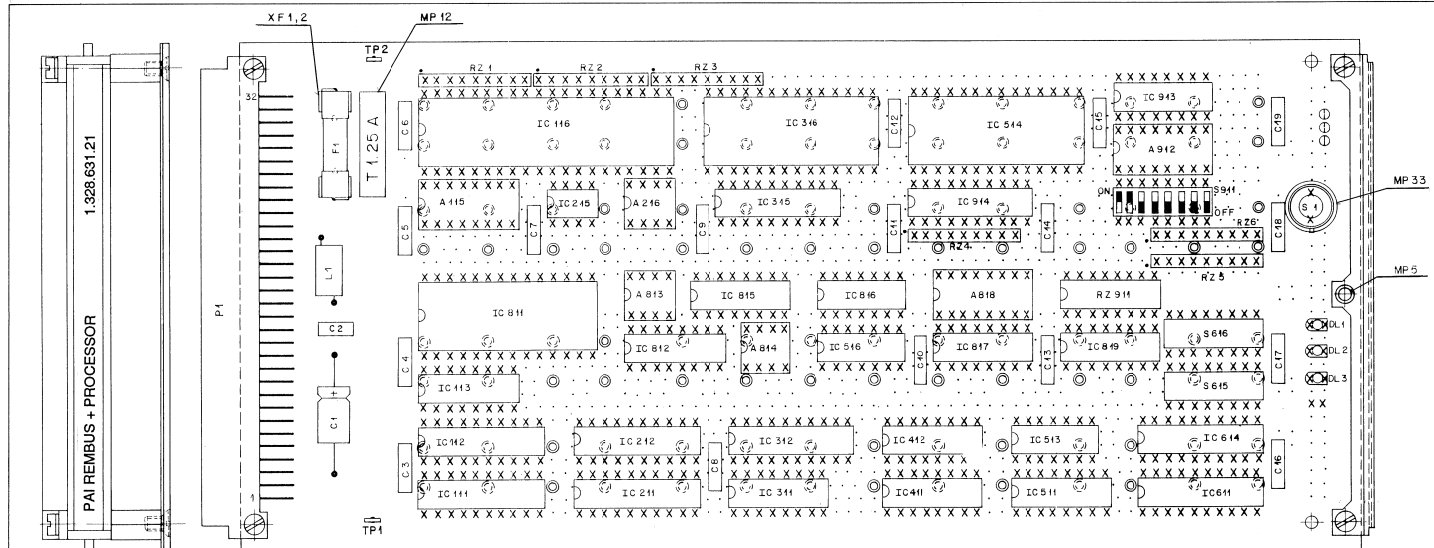
x Pull-up 3k3 R21 - R23



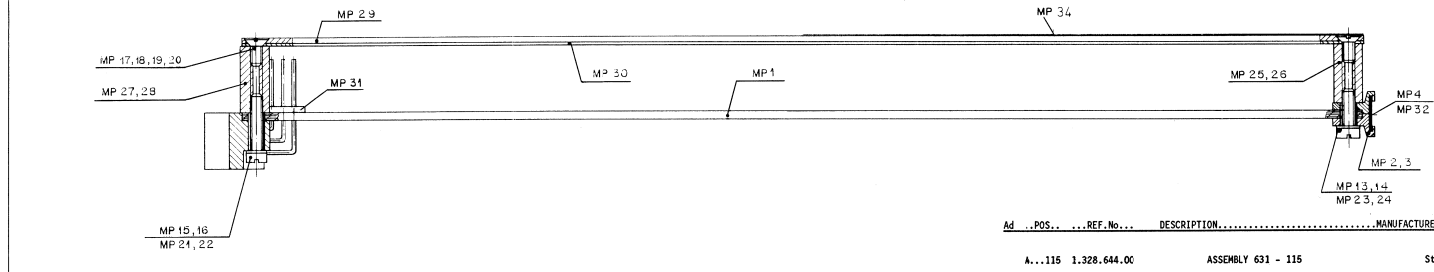
PAGE 1 OF 1  
1.328.631.21  
SC  
PARALLEL AUDIO INTERFACE D827 MCH  
-PAI REMBUS + PROCESSOR  
LAR  
10.07.21  
STUDER

26.03.90 DSE

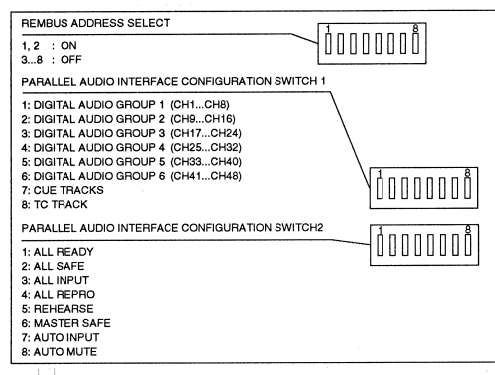
PAI REMBUS + PROCESSOR 1.328.631.21



| Ad    | POS. | REF.No.      | DESCRIPTION                             | MANUFACTURER |
|-------|------|--------------|---|--------------|
| DL... | 1    | 30.04.2132   | TLUG 2401 GN                            | ANY          |
| DL... | 2    | 30.04.2133   | TLIY 2401 GB                            | ANY          |
| DL... | 3    | 30.04.2121   | TLUR 2401 RT                            | ANY          |
| DL... | 4    |              | not used                                | ANY          |
| F.... | 1    | 51.01.0117   | T1.0 / 250V, 5 * 20                     | ANY          |
| IC... | 111  | 50.17.1574   | 74 HC 574                               | ANY          |
| IC... | 112  | 50.17.1574   | 74 HC 574                               | ANY          |
| IC... | 116  | 30.16.0119   | HD 63 A 03 RP                           | ANY          |
| IC... | 211  | 50.17.1574   | 74 HC 574                               | ANY          |
| IC... | 212  | 50.17.1541   | 74 HC 541                               | ANY          |
| IC... | 216  | 50.11.0122   | TL 7705 ACP                             | ANY          |
| IC... | 311  | 50.17.1139   | 74 HC 139                               | ANY          |
| IC... | 312  | 30.17.1646   | 74 HC 645                               | ANY          |
| IC... | 315  | 50.17.1573   | 74 HC 673                               | ANY          |
| IC... | 316  | 50.14.0133   | HM 6264LP-15                            | ANY          |
| IC... | 411  | 50.17.1138   | 74 HC 138                               | ANY          |
| IC... | 412  | 50.17.1138   | 74 HC 138                               | ANY          |
| IC... | 511  | 50.17.1138   | 74 HC 138                               | ANY          |
| IC... | 512  | 50.17.1004   | 74 HC 04                                | ANY          |
| IC... | 513  | 50.17.1070   | 74 HC 00                                | ANY          |
| IC... | 514  | 50.14.2004   | HW 27 C256 G-25 (SW 1.328.896.21)       | ANY          |
| IC... | 811  | 50.16.0153   | SAB 82520-P                             | ANY          |
| IC... | 812  | 50.15.0121   | SN 75174 N                              | ANY          |
| IC... | 815  | 50.15.0104   | MC 3486                                 | ANY          |
| IC... | 816  | 50.17.1000   | 74 HC 00                                | ANY          |
| IC... | 817  | 50.17.1123   | 74 HC 123                               | ANY          |
| IC... | 819  | 50.17.1123   | 74 HC 123                               | ANY          |
| IC... | 913  | 50.15.0120   | MAX 232 CPE                             | ANY          |
| IC... | 914  | 50.17.1540   | 74 HC 540                               | ANY          |
| L.... | 1    | 62.01.0115   | BREITBAND HF-CHOKE                      | ANY          |
| MP... | 1    | 1.310.037.49 | WRAP-KARTE                              | St           |
| MP... | 2    | 1.310.006.33 | GRIFFFHAELFTE                           | St           |
| MP... | 3    | 1.310.006.33 | GRIFFFHAELFTE                           | St           |
| MP... | 4    | 1.310.096.41 | KLARSICHTSCHILD                         | ANY          |
| MP... | 5    | 28.21.1370   | ROHRNETZE                               | ANY          |
| MP... | 7    | 28.21.1370   | ROHRNETZE                               | ANY          |
| MP... | 10   | 1.101.001.20 | HARDWARE-ETIKETTE                       | St           |
| MP... | 11   | 43.01.0108   | ESE - SCHILD                            | ANY          |
| MP... | 12   | 1.310.116.51 | ETIKETTE T 1.0A                         | St           |
| MP... | 13   | 21.01.0280   | Z-SCHRAUBE M2.5 x 8                     | ANY          |
| MP... | 14   | 21.01.0280   | Z-SCHRAUBE M2.5 x 8                     | ANY          |
| MP... | 15   | 21.01.0281   | Z-SCHRAUBE M2.5 x 12                    | ANY          |
| MP... | 16   | 21.01.0281   | Z-SCHRAUBE M2.5 x 12                    | ANY          |
| MP... | 17   | 21.01.0278   | SENKSCHAUBE M2.5 x 5                    | ANY          |
| MP... | 18   | 21.01.0278   | SENKSCHAUBE M2.5 x 5                    | ANY          |
| MP... | 19   | 21.01.2278   | SENKSCHAUBE M2.5 x 5                    | ANY          |
| MP... | 20   | 21.01.2278   | SENKSCHAUBE M2.5 x 5                    | ANY          |
| MP... | 21   | 24.16.1025   | SI-SCHIEBE M2.5                         | ANY          |
| MP... | 22   | 24.16.1025   | SI-SCHIEBE M2.5                         | ANY          |
| MP... | 23   | 24.16.1025   | SI-SCHIEBE M2.5                         | ANY          |
| MP... | 24   | 24.16.1025   | SI-SCHIEBE M2.5                         | ANY          |
| MP... | 25   | 1.310.209.27 | MUTTERBOLZEN M2.5 x 11.5                | St           |
| MP... | 26   | 1.310.209.27 | MUTTERBOLZEN M2.5 x 11.5                | St           |
| MP... | 27   | 1.310.205.27 | MUTTERBOLZEN M2.5 x 13                  | St           |
| MP... | 28   | 1.310.205.27 | MUTTERBOLZEN M2.5 x 13                  | St           |
| MP... | 29   | 1.310.110.49 | DECKLECH                                | St           |
| MP... | 30   | 1.310.111.49 | ISOLATION                               | St           |
| MP... | 31   | 1.010.128.49 | STIFTFUHRINGSPLATTE                     | St           |
| MP... | 32   | 1.328.631.01 | BEZEICHNUNGSTREIFEN "PAI PROC / REMBUS" | St           |
| MP... | 33   | 1.010.015.50 | ISOLERSCHIEBE ZU S1                     | St           |
| MP... | 34   | 1.328.631.02 | KLIEBE-ETIKETTE                         | St           |
| P.... | 1    | 54.01.0354   | LEISTE 3 * 32 WRAP                      | ANY          |
| RZ... | 1    | 57.88.4332   | 8 * 3.3 k, 2%, SIP 9                    | ANY          |
| RZ... | 2    | 57.88.4332   | 8 * 3.3 k, 2%, SIP 9                    | ANY          |
| RZ... | 3    | 57.88.4332   | 8 * 3.3 k, 2%, SIP 9                    | ANY          |
| RZ... | 4    | 57.88.4333   | 8 * 10 k, 2%, SIP 9                     | ANY          |
| RZ... | 11   | 57.88.3303   | 8 * 330 , 2%, D116                      | ANY          |
| S.... | 1    | 35.03.0122   | TASTE 1 * E                             | ANY          |
| S.... | 15   | 56.01.0168   | DIL-SWITCH 8* A                         | ANY          |
| TP... | 1    | 29.21.6002   | LOETOSE                                 | ANY          |
| TP... | 2    | 29.21.6002   | LOETOSE                                 | ANY          |
| XF... | 1    | 53.03.0142   | 5 * 20 KLAMMER                          | ANY          |
| XF... | 2    | 53.03.0142   | 5 * 20 KLAMMER                          | ANY          |



| Symbol | ver/diel | Gegenstand  | Norm Nr.     | Anzahl |
|--------|----------|-------------|--------------|--------|
| ⊕      | ⊕        | Front Pin   | 1.010.027-54 | 3      |
| x      | ⊕        | Kontakt Pin | 1.010.028-54 | 714    |
| ○      | ⊕        | Dummy Pin   | 1.040.029-54 | 442    |



| Ad    | POS. | REF.No.      | DESCRIPTION           | MANUFACTURER |
|-------|------|--------------|-----------------------|--------------|
| A...  | 115  | 1.328.644.00 | ASSEMBLY 631 - 115    | St           |
| A...  | 216  | 1.328.645.00 | ASSEMBLY 631 - 216    | St           |
| A...  | 813  | 1.328.646.00 | ASSEMBLY 631 - 813    | St           |
| A...  | 814  | 1.328.647.00 | ASSEMBLY 631 - 814    | St           |
| A...  | 818  | 1.328.648.00 | ASSEMBLY 631 - 818    | St           |
| A...  | 912  | 1.328.649.00 | ASSEMBLY 631 - 912    | St           |
| C.... | 1    | 59.25.3470   | 47 u 20K, 15V, EL     | ANY          |
| C.... | 2    | 59.06.0583   | 68 n 10K, 63V, PETP   | ANY          |
| C.... | 3    | 59.99.0267   | 68 n 10K, 100V, MPETP | ANY          |
| C.... | 4    | 59.99.0267   | 68 n 10K, 100V, MPETP | ANY          |
| C.... | 5    | 59.99.0267   | 68 n 10K, 100V, MPETP | ANY          |
| C.... | 6    | 59.99.0267   | 68 n 10K, 100V, MPETP | ANY          |
| C.... | 7    | 59.99.0267   | 68 n 10K, 100V, MPETP | ANY          |
| C.... | 8    | 59.99.0267   | 68 n 10K, 100V, MPETP | ANY          |
| C.... | 9    | 59.99.0267   | 68 n 10K, 100V, MPETP | ANY          |
| C.... | 10   | 59.99.0267   | 68 n 10K, 100V, MPETP | ANY          |
| C.... | 11   | 59.99.0267   | 68 n 10K, 100V, MPETP | ANY          |
| C.... | 12   | 59.99.0267   | 68 n 10K, 100V, MPETP | ANY          |
| C.... | 13   | 59.99.0267   | 68 n 10K, 100V, MPETP | ANY          |
| C.... | 14   | 59.99.0267   | 68 n 10K, 100V, MPETP | ANY          |
| C.... | 15   | 59.99.0267   | 68 n 10K, 100V, MPETP | ANY          |
| C.... | 16   | 59.99.0267   | 68 n 10K, 100V, MPETP | ANY          |
| C.... | 17   | 59.99.0267   | 68 n 10K, 100V, MPETP | ANY          |
| C.... | 18   | 59.99.0267   | 68 n 10K, 100V, MPETP | ANY          |
| C.... | 19   | 59.99.0267   | 68 n 10K, 100V, MPETP | ANY          |
| C.... | 20   | 59.99.0267   | 68 n 10K, 100V, MPETP | ANY          |
| C.... | 21   | 59.99.0267   | 68 n 10K, 100V, MPETP | ANY          |
| C.... | 22   | 59.99.0267   | 68 n 10K, 100V, MPETP | ANY          |
| C.... | 23   | 59.99.0267   | 68 n 10K, 100V, MPETP | ANY          |
| C.... | 24   | 59.99.0267   | 68 n 10K, 100V, MPETP | ANY          |
| C.... | 25   | 59.99.0267   | 68 n 10K, 100V, MPETP | ANY          |

REMARKS:  
\*\*\* WRAP-BOARD \*\*\*

00: SW 1.328.896.20 -> 1.328.896.21

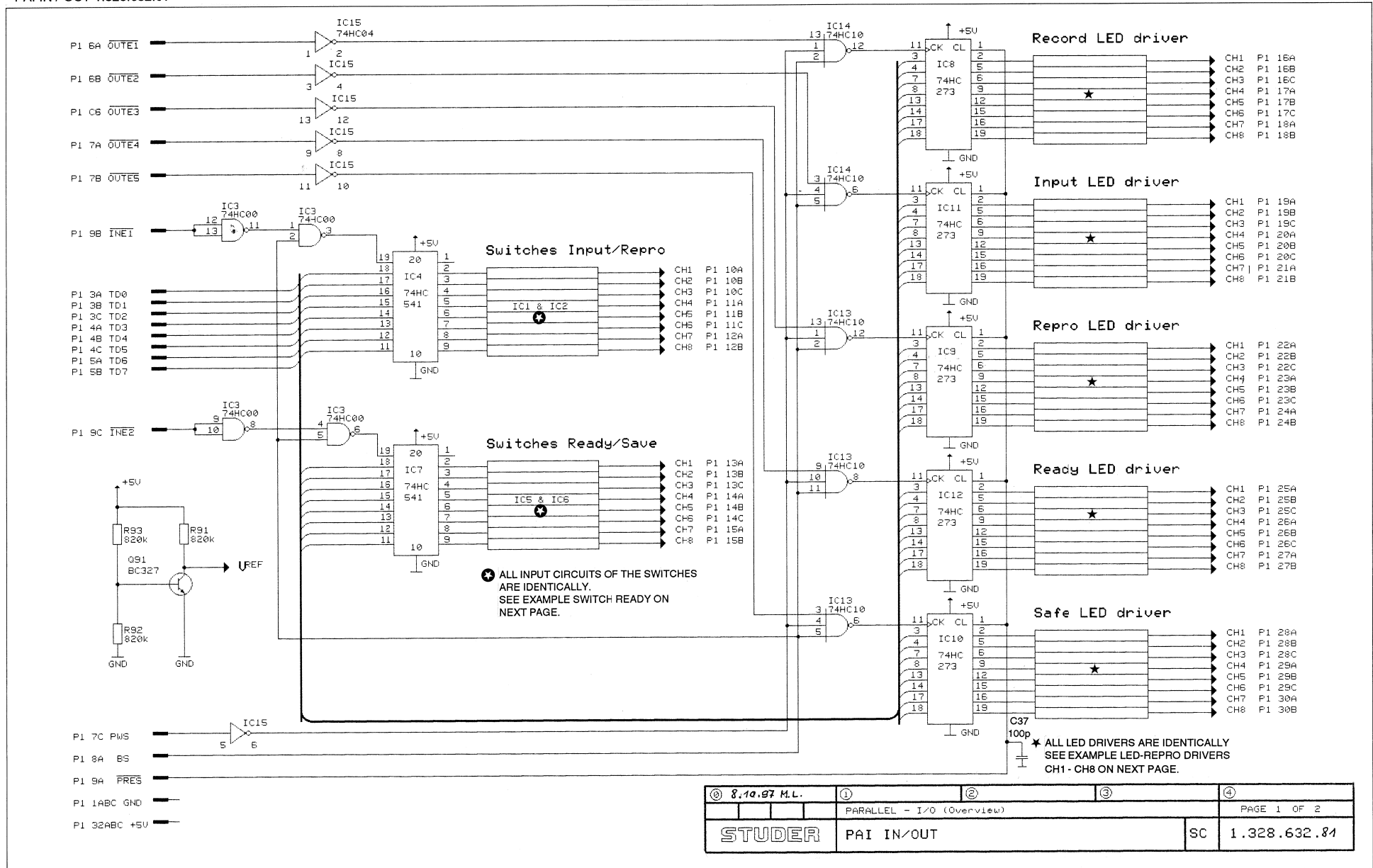
MANUFACTURERS:  
St = STUDER / Ph = PHILIPS / So = SONY

ABBREVIATIONS:  
CER = CERAMIC / FILM = FILM TYPE / XF = CLAMP FOR FUSES /  
XIC = IC SOCKET

1.328.631.21 PAI REMBUS + PROC. RA 91/07/1000

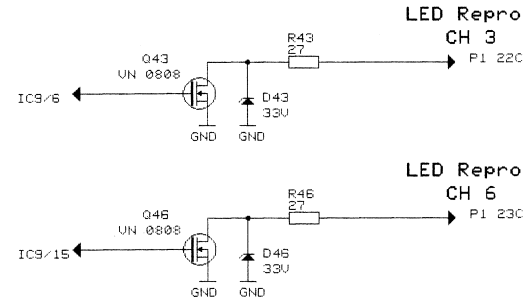
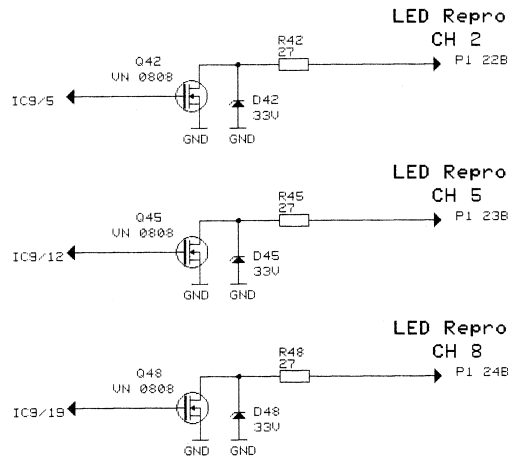
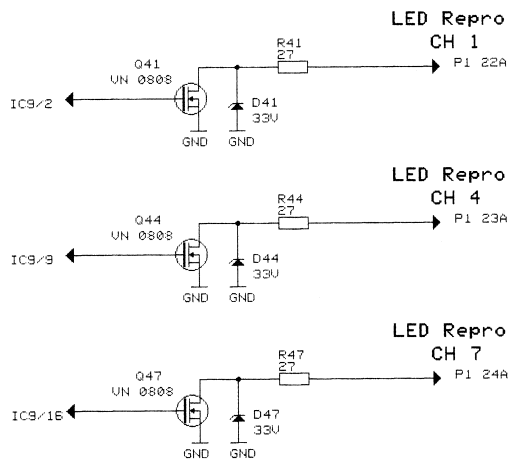
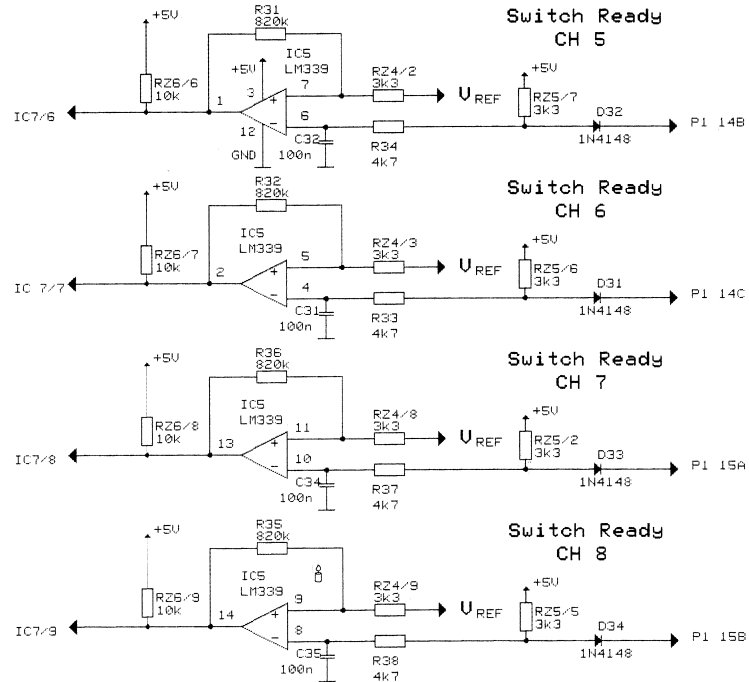
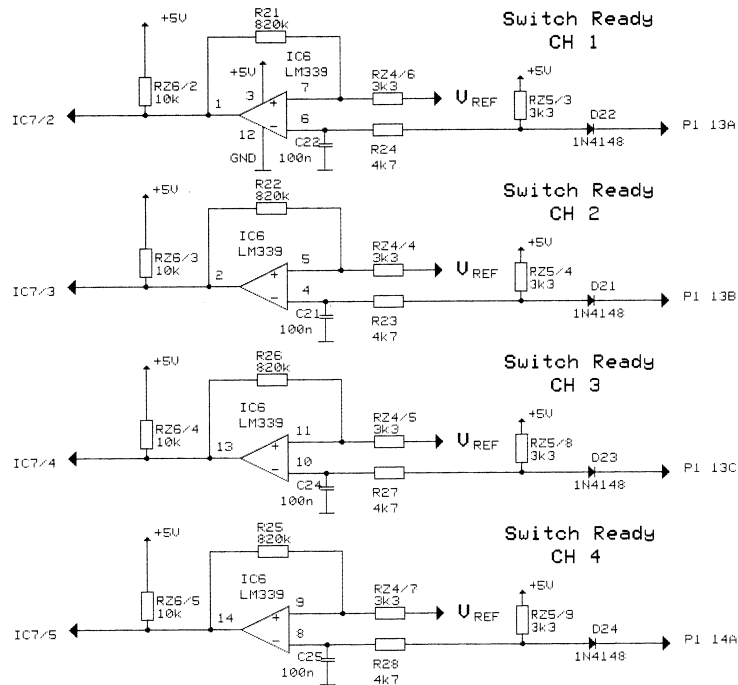
PARALLEL AUDIO INTERFACE 1.328.630.00

- PAI IN / OUT 1.328.632.81



|                |                           |    |              |
|----------------|---------------------------|----|--------------|
| ① 8.10.97 M.L. | ②                         | ③  | ④            |
|                | PARALLEL - I/O (Overview) |    | PAGE 1 OF 2  |
| STUDER         | PAI IN/OUT                | SC | 1.328.632.81 |

PARALLEL AUDIO INTERFACE 1.328.630.00  
 - PAI IN / OUT 1.328.632.81



|        |                         |            |                 |
|--------|-------------------------|------------|-----------------|
| ①      | ②                       | ③          | ④               |
|        | PARALLEL - I/O (Blocks) |            | PAGE 2 OF 2     |
| STUDER |                         | PAI IN/OUT | SC 1.328.632.81 |





STUDER D827 MCH



PAI IN / OUT 1.328.632.81

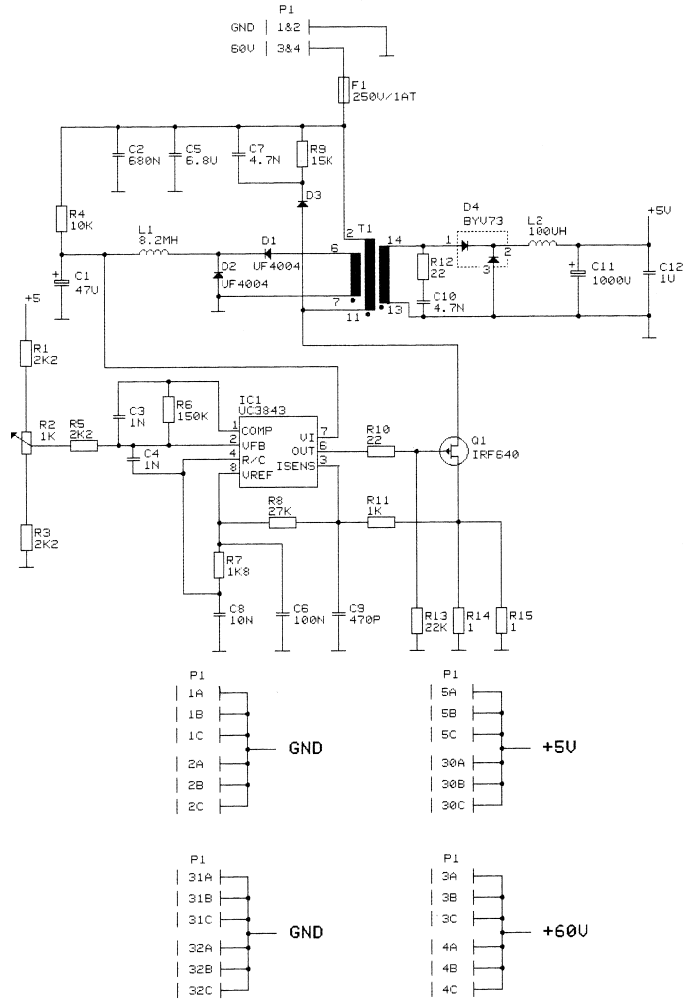
| Idx. | Pos.  | Part No.     | Qty. | Type/Val. | Description             | Idx. | Pos.   | Part No.   | Qty.  | Type/Val.             | Description |
|------|-------|--------------|------|-----------|-------------------------|------|--------|------------|-------|-----------------------|-------------|
| 0    | IC 1  | 50.11.0104   |      | LM339     | IC LM 339 N, ,A         | 0    | R 13   | 57.11.3472 | 4k7   | MF, 1%, 0207          |             |
| 0    | IC 2  | 50.11.0104   |      | LM339     | IC LM 339 N, ,A         | 0    | R 14   | 57.11.3472 | 4k7   | MF, 1%, 0207          |             |
| 0    | IC 3  | 50.17.1000   |      | 74HC00    | IC ... 74 HC 00 .., ,A  | 0    | R 15   | 57.11.3824 | €20k  | MF, 1%, 0207          |             |
| 0    | IC 4  | 50.17.1541   |      | 74HC541   | IC ... 74 HC 541 .., ,A | 0    | R 16   | 57.11.3824 | €20k  | MF, 1%, 0207          |             |
| 0    | IC 5  | 50.11.0104   |      | LM339     | IC LM 339 N, ,A         | 0    | R 17   | 57.11.3472 | 4k7   | MF, 1%, 0207          |             |
| 0    | IC 6  | 50.11.0104   |      | LM339     | IC LM 339 N, ,A         | 0    | R 18   | 57.11.3472 | 4k7   | MF, 1%, 0207          |             |
| 0    | IC 7  | 50.17.1541   |      | 74HC541   | IC ... 74 HC 541 .., ,A | 0    | R 21   | 57.11.3824 | €20k  | MF, 1%, 0207          |             |
| 0    | IC 8  | 50.17.1273   |      | 74HC273   | IC ... 74 HC 273 .., ,A | 0    | R 22   | 57.11.3824 | €20k  | MF, 1%, 0207          |             |
| 0    | IC 9  | 50.17.1273   |      | 74HC273   | IC ... 74 HC 273 .., ,A | 0    | R 23   | 57.11.3472 | 4k7   | MF, 1%, 0207          |             |
| 0    | IC 10 | 50.17.1273   |      | 74HC273   | IC ... 74 HC 273 .., ,A | 0    | R 24   | 57.11.3472 | 4k7   | MF, 1%, 0207          |             |
| 0    | IC 11 | 50.17.1273   |      | 74HC273   | IC ... 74 HC 273 .., ,A | 0    | R 25   | 57.11.3824 | €20k  | MF, 1%, 0207          |             |
| 0    | IC 12 | 50.17.1273   |      | 74HC273   | IC ... 74 HC 273 .., ,A | 0    | R 26   | 57.11.3824 | €20k  | MF, 1%, 0207          |             |
| 0    | IC 13 | 50.17.1010   |      | 74HC10    | IC ... 74 HC 10 .., ,A  | 0    | R 27   | 57.11.3472 | 4k7   | MF, 1%, 0207          |             |
| 0    | IC 14 | 50.17.1010   |      | 74HC10    | IC ... 74 HC 10 .., ,A  | 0    | R 28   | 57.11.3472 | 4k7   | MF, 1%, 0207          |             |
| 0    | IC 15 | 50.17.1004   |      | 74HC04    | IC ... 74 HC 04 .., ,A  | 0    | R 31   | 57.11.3824 | €20k  | MF, 1%, 0207          |             |
| 0    |       |              |      |           |                         | 0    | R 32   | 57.11.3824 | €20k  | MF, 1%, 0207          |             |
| 0    | MP 1  | 1.328.632.11 | mp   |           | PAI INPUT/OUTPUT PCB    | 0    | R 33   | 57.11.3472 | 4k7   | MF, 1%, 0207          |             |
| 0    | MP 2  | 1.010.006.33 | mp   | Handle    | GRIFFFHALFTE            | 0    | R 34   | 57.11.3472 | 4k7   | MF, 1%, 0207          |             |
| 0    | MP 3  | 1.010.006.33 | mp   | Handle    | GRIFFFHALFTE            | 0    | R 35   | 57.11.3824 | €20k  | MF, 1%, 0207          |             |
| 0    | MP 4  | 1.010.096.49 | mp   |           | KLARISICHTSCHILD        | 0    | R 36   | 57.11.3824 | €20k  | MF, 1%, 0207          |             |
| 0    | MP 5  | 28.21.1370   | mp   |           | ROHRNIETE, D225* 5.5    | 0    | R 37   | 57.11.3472 | 4k7   | MF, 1%, 0207          |             |
| 0    | MP 6  | 28.21.1370   | mp   |           | ROHRNIETE, D225* 5.5    | 0    | R 38   | 57.11.3472 | 4k7   | MF, 1%, 0207          |             |
| 0    | MP 7  | 28.21.1370   | mp   |           | ROHRNIETE, D225* 5.5    | 0    | R 41   | 57.11.3270 | 27R   | MF, 1%, 0207          |             |
| 0    | MP 8  | 28.99.0119   | mp   |           | ROHRNIETE D 2,5*0,15* 9 | 0    | R 42   | 57.11.3270 | 27R   | MF, 1%, 0207          |             |
| 0    | MP 9  | 28.99.0119   | mp   |           | ROHRNIETE D 2,5*0,15* 9 | 0    | R 43   | 57.11.3270 | 27R   | MF, 1%, 0207          |             |
| 0    | MP 10 | 43.01.0108   | mp   | Label     | ESE-WARNSCHILDO         | 0    | R 44   | 57.11.3270 | 27R   | MF, 1%, 0207          |             |
| 0    | MP 11 | 1.328.632.21 | mp   |           | BEZ. STREIFEN 6,3 * 91  | 0    | R 45   | 57.11.3270 | 27R   | MF, 1%, 0207          |             |
| 0    |       |              |      |           |                         | 0    | R 46   | 57.11.3270 | 27R   | MF, 1%, 0207          |             |
| 0    | P 1   | 54.01.0358   | 96p  |           | EU-C 3 * 32             | 0    | R 47   | 57.11.3270 | 27R   | MF, 1%, 0207          |             |
| 0    |       |              |      |           |                         | 0    | R 48   | 57.11.3270 | 27R   | MF, 1%, 0207          |             |
| 0    | Q 41  | 50.03.1505   |      | VN0808M   | VN 0808 M, ZVN 0108 A   | 0    | R 61   | 57.11.3270 | 27R   | MF, 1%, 0207          |             |
| 0    | Q 42  | 50.03.1505   |      | VN0808M   | VN 0808 M, ZVN 0108 A   | 0    | R 62   | 57.11.3270 | 27R   | MF, 1%, 0207          |             |
| 0    | Q 43  | 50.03.1505   |      | VN0808M   | VN 0808 M, ZVN 0108 A   | 0    | R 63   | 57.11.3270 | 27R   | MF, 1%, 0207          |             |
| 0    | Q 44  | 50.03.1505   |      | VN0808M   | VN 0808 M, ZVN 0108 A   | 0    | R 64   | 57.11.3270 | 27R   | MF, 1%, 0207          |             |
| 0    | Q 45  | 50.03.1505   |      | VN0808M   | VN 0808 M, ZVN 0108 A   | 0    | R 55   | 57.11.3270 | 27R   | MF, 1%, 0207          |             |
| 0    | Q 46  | 50.03.1505   |      | VN0808M   | VN 0808 M, ZVN 0108 A   | 0    | R 56   | 57.11.3270 | 27R   | MF, 1%, 0207          |             |
| 0    | Q 47  | 50.03.1505   |      | VN0808M   | VN 0808 M, ZVN 0108 A   | 0    | R 57   | 57.11.3270 | 27R   | MF, 1%, 0207          |             |
| 0    | Q 48  | 50.03.1505   |      | VN0808M   | VN 0808 M, ZVN 0108 A   | 0    | R 58   | 57.11.3270 | 27R   | MF, 1%, 0207          |             |
| 0    | Q 51  | 50.03.1505   |      | VN0808M   | VN 0808 M, ZVN 0108 A   | 0    | R 61   | 57.11.3270 | 27R   | MF, 1%, 0207          |             |
| 0    | Q 52  | 50.03.1505   |      | VN0808M   | VN 0808 M, ZVN 0108 A   | 0    | R 62   | 57.11.3270 | 27R   | MF, 1%, 0207          |             |
| 0    | Q 53  | 50.03.1505   |      | VN0808M   | VN 0808 M, ZVN 0108 A   | 0    | R 63   | 57.11.3270 | 27R   | MF, 1%, 0207          |             |
| 0    | Q 54  | 50.03.1505   |      | VN0808M   | VN 0808 M, ZVN 0108 A   | 0    | R 64   | 57.11.3270 | 27R   | MF, 1%, 0207          |             |
| 0    | Q 55  | 50.03.1505   |      | VN0808M   | VN 0808 M, ZVN 0108 A   | 0    | R 65   | 57.11.3270 | 27R   | MF, 1%, 0207          |             |
| 0    | Q 56  | 50.03.1505   |      | VN0808M   | VN 0808 M, ZVN 0108 A   | 0    | R 66   | 57.11.3270 | 27R   | MF, 1%, 0207          |             |
| 0    | Q 57  | 50.03.1505   |      | VN0808M   | VN 0808 M, ZVN 0108 A   | 0    | R 67   | 57.11.3270 | 27R   | MF, 1%, 0207          |             |
| 0    | Q 58  | 50.03.1505   |      | VN0808M   | VN 0808 M, ZVN 0108 A   | 0    | R 68   | 57.11.3270 | 27R   | MF, 1%, 0207          |             |
| 0    | Q 61  | 50.03.1505   |      | VN0808M   | VN 0808 M, ZVN 0108 A   | 0    | R 71   | 57.11.3270 | 27R   | MF, 1%, 0207          |             |
| 0    | Q 62  | 50.03.1505   |      | VN0808M   | VN 0808 M, ZVN 0108 A   | 0    | R 72   | 57.11.3270 | 27R   | MF, 1%, 0207          |             |
| 0    | Q 63  | 50.03.1505   |      | VN0808M   | VN 0808 M, ZVN 0108 A   | 0    | R 73   | 57.11.3270 | 27R   | MF, 1%, 0207          |             |
| 0    | Q 64  | 50.03.1505   |      | VN0808M   | VN 0808 M, ZVN 0108 A   | 0    | R 74   | 57.11.3270 | 27R   | MF, 1%, 0207          |             |
| 0    | Q 65  | 50.03.1505   |      | VN0808M   | VN 0808 M, ZVN 0108 A   | 0    | R 75   | 57.11.3270 | 27R   | MF, 1%, 0207          |             |
| 0    | Q 66  | 50.03.1505   |      | VN0808M   | VN 0808 M, ZVN 0108 A   | 0    | R 76   | 57.11.3270 | 27R   | MF, 1%, 0207          |             |
| 0    | Q 67  | 50.03.1505   |      | VN0808M   | VN 0808 M, ZVN 0108 A   | 0    | R 77   | 57.11.3270 | 27R   | MF, 1%, 0207          |             |
| 0    | Q 68  | 50.03.1505   |      | VN0808M   | VN 0808 M, ZVN 0108 A   | 0    | R 78   | 57.11.3270 | 27R   | MF, 1%, 0207          |             |
| 0    | Q 71  | 50.03.1505   |      | VN0808M   | VN 0808 M, ZVN 0108 A   | 0    | R 81   | 57.11.3270 | 27R   | MF, 1%, 0207          |             |
| 0    | Q 72  | 50.03.1505   |      | VN0808M   | VN 0808 M, ZVN 0108 A   | 0    | R 82   | 57.11.3270 | 27R   | MF, 1%, 0207          |             |
| 0    | Q 73  | 50.03.1505   |      | VN0808M   | VN 0808 M, ZVN 0108 A   | 0    | R 83   | 57.11.3270 | 27R   | MF, 1%, 0207          |             |
| 0    | Q 74  | 50.03.1505   |      | VN0808M   | VN 0808 M, ZVN 0108 A   | 0    | R 84   | 57.11.3270 | 27R   | MF, 1%, 0207          |             |
| 0    | Q 75  | 50.03.1505   |      | VN0808M   | VN 0808 M, ZVN 0108 A   | 0    | R 85   | 57.11.3270 | 27R   | MF, 1%, 0207          |             |
| 0    | Q 76  | 50.03.1505   |      | VN0808M   | VN 0808 M, ZVN 0108 A   | 0    | R 86   | 57.11.3270 | 27R   | MF, 1%, 0207          |             |
| 0    | Q 77  | 50.03.1505   |      | VN0808M   | VN 0808 M, ZVN 0108 A   | 0    | R 87   | 57.11.3270 | 27R   | MF, 1%, 0207          |             |
| 0    | Q 78  | 50.03.1505   |      | VN0808M   | VN 0808 M, ZVN 0108 A   | 0    | R 88   | 57.11.3270 | 27R   | MF, 1%, 0207          |             |
| 0    | Q 81  | 50.03.1505   |      | VN0808M   | VN 0808 M, ZVN 0108 A   | 0    | R 91   | 57.11.3921 | €20R  | MF, 1%, 0207          |             |
| 0    | Q 82  | 50.03.1505   |      | VN0808M   | VN 0808 M, ZVN 0108 A   | 0    | R 92   | 57.11.3152 | 1k5   | MF, 1%, 0207          |             |
| 0    | Q 83  | 50.03.1505   |      | VN0808M   | VN 0808 M, ZVN 0108 A   | 0    | R 93   | 57.11.3152 | 1k5   | MF, 1%, 0207          |             |
| 0    | Q 84  | 50.03.1505   |      | VN0808M   | VN 0808 M, ZVN 0108 A   | 0    |        |            |       |                       |             |
| 0    | Q 85  | 50.03.1505   |      | VN0808M   | VN 0808 M, ZVN 0108 A   | 0    | RZ 1   | 57.88.4332 | 3*3k3 | 2%, SIP 9             |             |
| 0    | Q 86  | 50.03.1505   |      | VN0808M   | VN 0808 M, ZVN 0108 A   | 0    | RZ 2   | 57.88.4332 | 3*3k3 | 2%, SIP 9             |             |
| 0    | Q 87  | 50.03.1505   |      | VN0808M   | VN 0808 M, ZVN 0108 A   | 0    | RZ 3   | 57.88.4103 | 3*10k | 2%, SIP 9             |             |
| 0    | Q 88  | 50.03.1505   |      | VN0808M   | VN 0808 M, ZVN 0108 A   | 0    | RZ 4   | 57.88.4332 | 3*3k3 | 2%, SIP 9             |             |
| 0    | Q 89  | 50.03.1505   |      | VN0808M   | VN 0808 M, ZVN 0108 A   | 0    | RZ 5   | 57.88.4332 | 3*3k3 | 2%, SIP 9             |             |
| 0    | Q 91  | 50.03.0351   |      | BC327-25  | PNP, 800mA              | 0    | RZ 6   | 57.88.4103 | 3*10k | 2%, SIP 9             |             |
| 0    | R 1   | 57.11.3824   |      | €20k      | MF, 1%, 0207            | 0    | XIC 3  | 53.03.0167 | 14p   | DIL 0.3", lot, gerade |             |
| 0    | R 2   | 57.11.3824   |      | €20k      | MF, 1%, 0207            | 0    | XIC 4  | 53.03.0165 | 20p   | DIL 0.3", lot, gerade |             |
| 0    | R 3   | 57.11.3472   |      | 4k7       | MF, 1%, 0207            | 0    | XIC 7  | 53.03.0165 | 20p   | DIL 0.3", lot, gerade |             |
| 0    | R 4   | 57.11.3472   |      | 4k7       | MF, 1%, 0207            | 0    | XIC 15 | 53.03.0167 | 14p   | DIL 0.3", lot, gerade |             |
| 0    | R 5   | 57.11.3824   |      | €20k      | MF, 1%, 0207            |      |        |            |       |                       |             |
| 0    | R 6   | 57.11.3824   |      | €20k      | MF, 1%, 0207            |      |        |            |       |                       |             |
| 0    | R 7   | 57.11.3472   |      | 4k7       | MF, 1%, 0207            |      |        |            |       |                       |             |
| 0    | R 8   | 57.11.3472   |      | 4k7       | MF, 1%, 0207            |      |        |            |       |                       |             |
| 0    | R 11  | 57.11.3824   |      | €20k      | MF, 1%, 0207            |      |        |            |       |                       |             |
| 0    | R 12  | 57.11.3824   |      | €20k      | MF, 1%, 0207            |      |        |            |       |                       |             |

End of List

Comments:  
 (81) C37 zusaetzlich

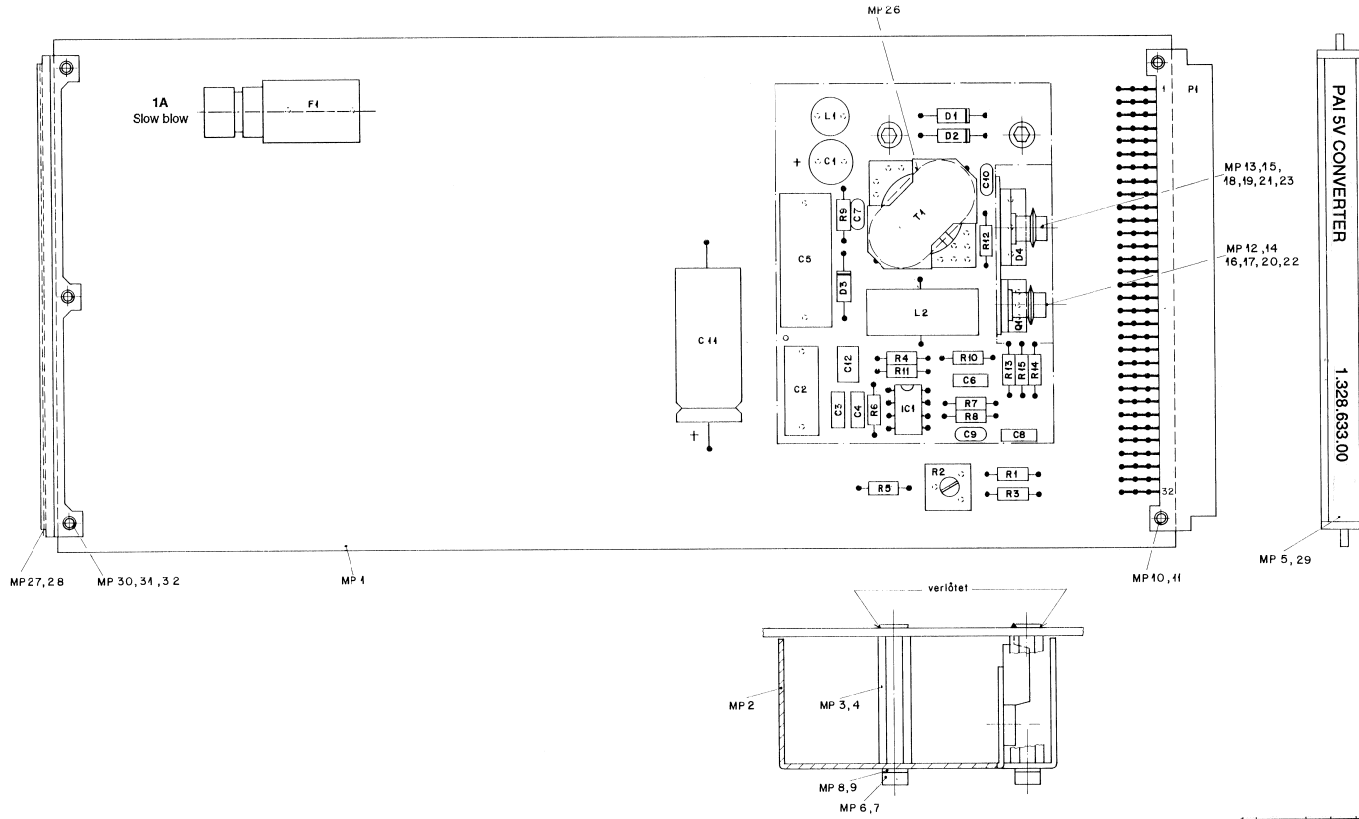
PARALLEL AUDIO INTERFACE 1.328.630.00

-PAI 5V Converter 1.328.633.00



|               |                  |                               |              |             |
|---------------|------------------|-------------------------------|--------------|-------------|
| © 5.3.90 RA   |                  |                               |              |             |
|               |                  | PARALLEL - I/O (5U Converter) |              | PAGE 1 OF 1 |
| <b>STUDER</b> | PAI 5U CONVERTER | SC                            | 1.328.633-00 |             |

PAI 5V CONVERTER 1.328.633.00



| Ad       | POS.         | REF.No. | DESCRIPTION                     | MANUFACTURER |
|----------|--------------|---------|---------------------------------|--------------|
| C....1   | 59.22.4470   | 47 u    | -20%, 16V, EL                   | ANY          |
| C....2   | 59.02.2684   | .68 u   | 5%, 100V, MPC                   | ANY          |
| C....3   | 59.06.0102   | 1000 p  | 10%, 63V, PETP                  | ANY          |
| C....4   | 59.06.0102   | 1000 p  | 10%, 63V, PETP                  | ANY          |
| C....5   | 59.02.0685   | 6.8 u   | 5%, 63V, MPC                    | ANY          |
| C....6   | 59.06.0104   | .1 u    | 10%, 63V, PETP                  | ANY          |
| C....7   | 59.32.2472   | 4700 p  | 10%, 50V, CER                   | ANY          |
| C....8   | 59.06.0103   | .01 u   | 10%, 63V, PETP                  | ANY          |
| C....9   | 59.32.2471   | 470 p   | 10%, 50V, CER                   | ANY          |
| C....10  | 59.32.2472   | 4700 p  | 10%, 50V, CER                   | ANY          |
| C....11  | 59.25.3222   | 2200 u  | -20%, 16V, EL                   | ANY          |
| C....12  | 59.06.0105   | 1.0 u   | 10%, 50V, PETP                  | ANY          |
| D....1   | 50.04.0138   |         | BYT 01-400, UF 4004             | ANY          |
| D....2   | 50.04.0138   |         | BYT 01-400, UF 4004             | ANY          |
| D....3   | 50.04.0138   |         | BYT 01-400, UF 4004             | ANY          |
| D....4   | 50.04.0520   |         | MBR 3045 PT, BYV 73-45          | ANY          |
| F....1   | 51.01.0117   |         | T1.0A / 250V, 5 * 20            | ANY          |
| IC....1  | 50.10.0113   |         | IP 3843 N                       | ANY          |
| L....1   | 62.02.1822   |         | 8.2 mH, 5%, D 8                 | ANY          |
| L....2   | 62.03.0040   |         | 100 uH, 5 A, FILTER             | ANY          |
| MP....1  | 1.328.633.11 |         | VOLTAGE CONVERTER 60V/5V PCB    | St           |
| MP....2  | 1.632.812.02 |         | ABSCHIRMHAUBE                   | St           |
| MP....3  | 1.010.022.22 |         | NIEHMUTTER SW 6 M 3 * 25        | ANY          |
| MP....4  | 1.010.022.22 |         | NIEHMUTTER SW 6 M 3 * 25        | ANY          |
| MP....5  | 1.328.633.01 |         | NR.-ETIKETTE 5 * 20             | St           |
| MP....6  | 21.51.8354   |         | LIN-SCHR. IS, NI, M 3 * 6       | ANY          |
| MP....7  | 21.51.8354   |         | LIN-SCHR. IS, NI, M 3 * 6       | ANY          |
| MP....8  | 24.16.1030   |         | RIPPENSCHLEIBE D 3.2/5.5        | ANY          |
| MP....9  | 24.16.1030   |         | RIPPENSCHLEIBE D 3.2/5.5        | ANY          |
| MP....10 | 24.16.1030   |         | RIPPENSCHLEIBE D 3.2/5.5        | ANY          |
| MP....11 | 23.99.0119   |         | ROHRLEITE D 2.5*0.15* 10        | ANY          |
| MP....12 | 50.20.0305   |         | TO 220 GLIMMERSCHLEIBE GEFETTET | ANY          |
| MP....13 | 50.20.0317   |         | TO 218 GLIMMERSCHLEIBE          | ANY          |
| MP....14 | 50.20.0404   |         | ISOLIERDURCHFUEHRUNG D 6.0/3.5  | ANY          |
| MP....15 | 50.20.0404   |         | ISOLIERDURCHFUEHRUNG D 6.0/3.5  | ANY          |
| MP....16 | 37.01.0101   |         | TELLERFEDER D 3.2/ 8 * 0.3      | ANY          |
| MP....17 | 37.01.0101   |         | TELLERFEDER D 3.2/ 8 * 0.3      | ANY          |
| MP....18 | 37.01.0101   |         | TELLERFEDER D 3.2/ 8 * 0.3      | ANY          |
| MP....19 | 37.01.0101   |         | TELLERFEDER D 3.2/ 8 * 0.3      | ANY          |
| MP....20 | 1.010.098.27 |         | DISTANZHUELSE ZU TO 220         | ANY          |
| MP....21 | 1.010.098.27 |         | DISTANZHUELSE ZU TO 220         | ANY          |
| MP....22 | 21.63.0356   |         | Z - SCHR. IS, ZN, M 3 * 10      | ANY          |
| MP....23 | 21.63.0356   |         | Z - SCHR. IS, ZN, M 3 * 10      | ANY          |
| MP....24 | 43.01.0108   |         | ESE-WARNSCHILD                  | St           |
| MP....25 | 1.010.115.51 |         | TEXT-ETIK. 5*20 (T1.00A)        | St           |
| MP....26 | 1.010.002.61 |         | UNTERLAGE ZU SWITCHING TRAFU    | St           |
| MP....27 | 1.010.006.33 |         | GRIFFHAEUFTE                    | St           |
| MP....28 | 1.010.006.33 |         | GRIFFHAEUFTE                    | St           |
| MP....29 | 1.010.096.49 |         | KLASSISCHESCHILD                | ANY          |
| MP....30 | 28.21.1370   |         | ROHRLEITE, D2.25* 5.5           | ANY          |
| MP....31 | 28.21.1370   |         | ROHRLEITE, D2.25* 5.5           | ANY          |
| MP....32 | 28.21.1370   |         | ROHRLEITE, D2.25* 5.5           | ANY          |
| P....1   | 54.01.0358   |         | LEISTE 3 * 32 EURO PRINT        | ANY          |
| Q....1   | 50.03.1510   |         | IRF 640 ,A                      | ANY          |
| R....1   | 57.11.3222   | 2.2 k   | 1%, 0207, MF                    | ANY          |
| R....2   | 58.01.8102   | 1 k     | 10%, .5 W, PMG                  | ANY          |
| R....3   | 57.11.3222   | 2.2 k   | 1%, 0207, MF                    | ANY          |
| R....4   | 57.11.3103   | 10 k    | 1%, 0207, MF                    | ANY          |
| R....5   | 57.11.3222   | 2.2 k   | 1%, 0207, MF                    | ANY          |
| R....6   | 57.11.3154   | 150 k   | 1%, 0207, MF                    | ANY          |
| R....7   | 57.11.3182   | 1.8 k   | 1%, 0207, MF                    | ANY          |
| R....8   | 57.11.3273   | 27 k    | 1%, 0207, MF                    | ANY          |
| R....9   | 57.11.3153   | 15 k    | 1%, 0207, MF                    | ANY          |
| R....10  | 57.11.3220   | 22 E    | 1%, 0207, MF                    | ANY          |
| R....11  | 57.11.3102   | 1 k     | 1%, 0207, MF                    | ANY          |
| R....12  | 57.11.3220   | 22 E    | 1%, 0207, MF                    | ANY          |
| R....13  | 57.11.3223   | 22 k    | 1%, 0207, MF                    | ANY          |
| R....14  | 57.11.3109   | 1.0 E   | 1%, 0207, MF                    | ANY          |
| R....15  | 57.11.3109   | 1.0 E   | 1%, 0207, MF                    | ANY          |
| T....1   | 1.022.628.00 |         | SWITCHING TRANSFORMER           | St           |
| XF....1  | 53.03.0118   | 5 * 20  | PRINT-LIEGEND                   | ANY          |

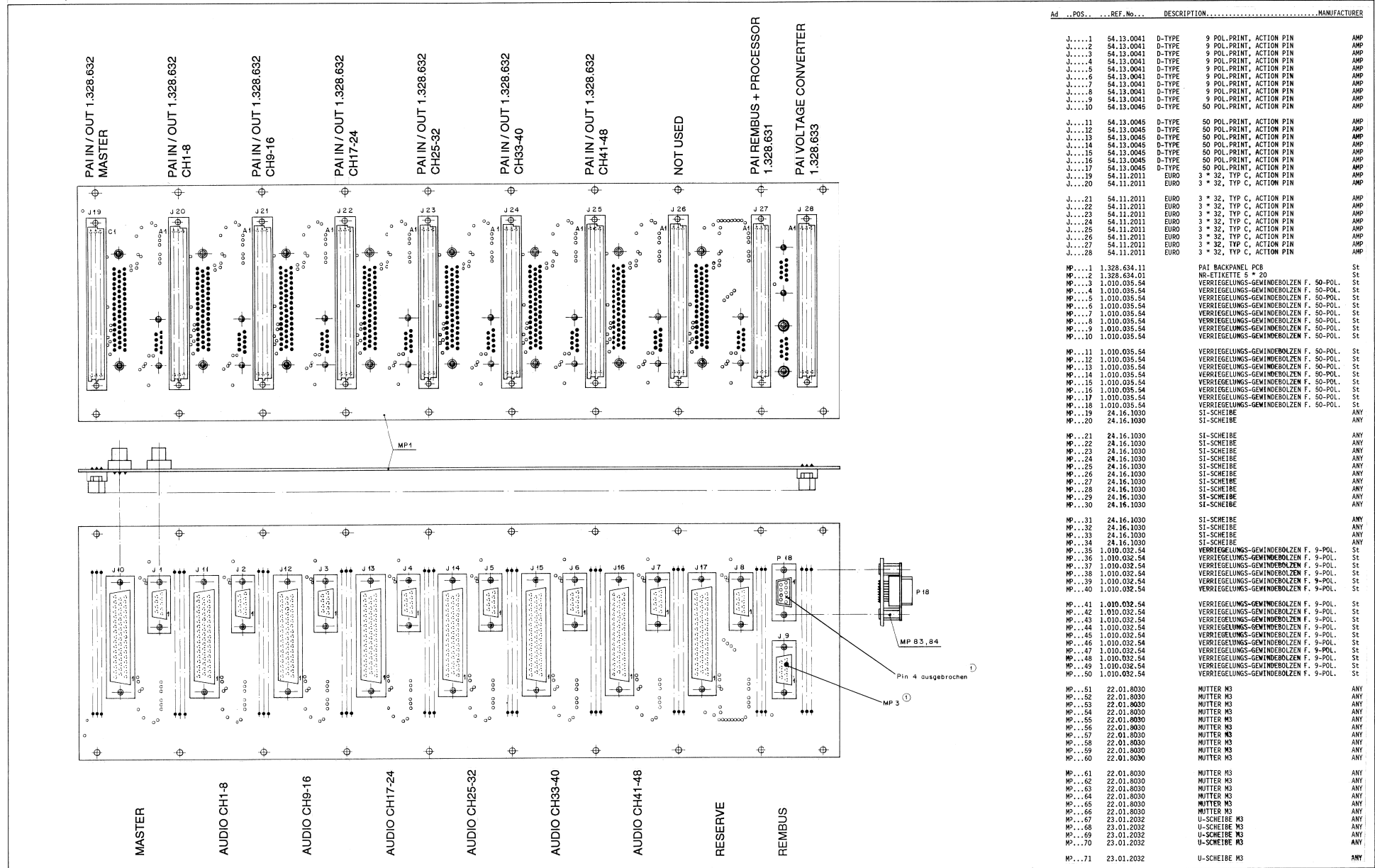
REMARKS:  
INDEX 01: Faecherscheibe statt Rippenscheibe  
MANUFACTURERS:  
St = STUDER / Ph = PHILIPS / So = SONY  
ABBREVIATIONS:  
CER = CERAMIC / FILM = FILM TYPE / XF = CLAMP FOR FUSES /  
XIC = IC SOCKET  
1.328.633.00 PAI 5V CONVERTER RU 90/01/0500  
1.328.633.00 PAI 5V CONVERTER RU 90/02/1301

|                                |                         |              |
|--------------------------------|-------------------------|--------------|
| STUDER<br>REGENSDORF<br>ZÜRICH | PAI 5V CONVERTER<br>ESE | 1.328.633-00 |
|--------------------------------|-------------------------|--------------|

STUDER D827 MCH

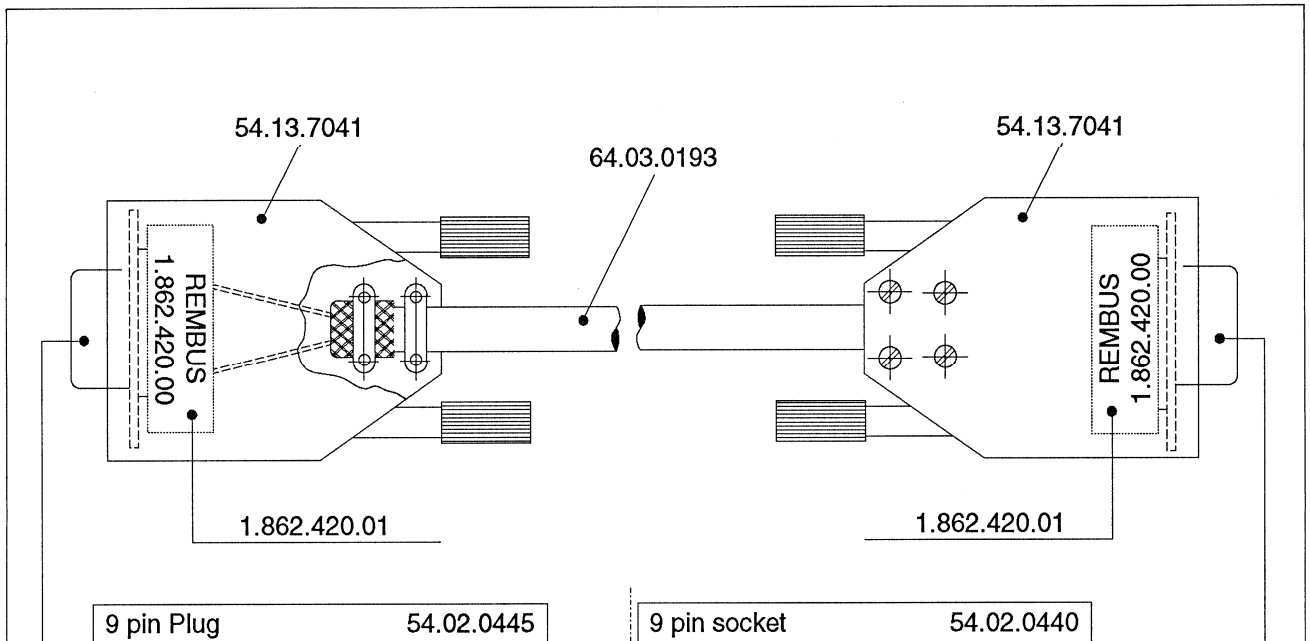
PARALLEL AUDIO INTERFACE 1.328.630.00

-PAI Backpanel 1.328.634.00





REMBUS CONNECTION CABLE, 9PIN, 0.6m 1.862.420.00



9 pin Plug 54.02.0445

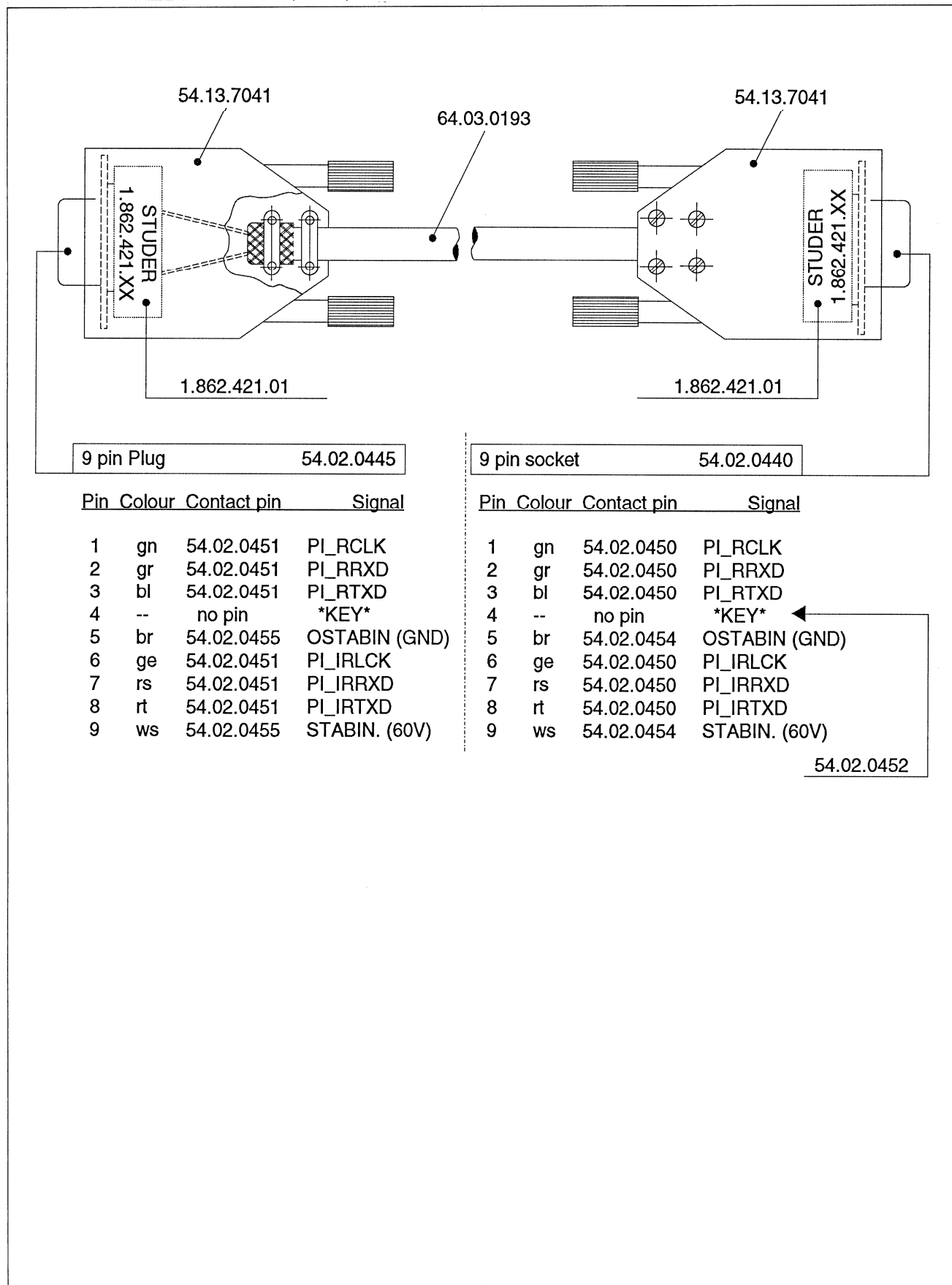
9 pin socket 54.02.0440

| Pin | Colour | Contact pin | Signal        |
|-----|--------|-------------|---------------|
| 1   | gn     | 54.02.0451  | PI_RCLK       |
| 2   | gr     | 54.02.0451  | PI_RRXD       |
| 3   | bl     | 54.02.0451  | PI_RTXD       |
| 4   | --     | no pin      | *KEY*         |
| 5   | br     | 54.02.0455  | OSTABIN (GND) |
| 6   | ge     | 54.02.0451  | PI_IRLCK      |
| 7   | rs     | 54.02.0451  | PI_IRRXD      |
| 8   | rt     | 54.02.0451  | PI_IRTXD      |
| 9   | ws     | 54.02.0455  | STABIN. (60V) |

| Pin | Colour | Contact pin | Signal        |
|-----|--------|-------------|---------------|
| 1   | gn     | 54.02.0450  | PI_RCLK       |
| 2   | gr     | 54.02.0450  | PI_RRXD       |
| 3   | bl     | 54.02.0450  | PI_RTXD       |
| 4   | --     | no pin      | *KEY*         |
| 5   | br     | 54.02.0454  | OSTABIN (GND) |
| 6   | ge     | 54.02.0450  | PI_IRLCK      |
| 7   | rs     | 54.02.0450  | PI_IRRXD      |
| 8   | rt     | 54.02.0450  | PI_IRTXD      |
| 9   | ws     | 54.02.0454  | STABIN. (60V) |

54.02.0452

REMBUS CONNECTION CABLE, 9PIN, 15m 1.862.421.00



9 pin Plug 54.02.0445

9 pin socket 54.02.0440

| Pin | Colour | Contact pin | Signal        |
|-----|--------|-------------|---------------|
| 1   | gn     | 54.02.0451  | PI_RCLK       |
| 2   | gr     | 54.02.0451  | PI_RRXD       |
| 3   | bl     | 54.02.0451  | PI_RTXD       |
| 4   | --     | no pin      | *KEY*         |
| 5   | br     | 54.02.0455  | OSTABIN (GND) |
| 6   | ge     | 54.02.0451  | PI_IRLCK      |
| 7   | rs     | 54.02.0451  | PI_IRRXD      |
| 8   | rt     | 54.02.0451  | PI_IRTXD      |
| 9   | ws     | 54.02.0455  | STABIN. (60V) |

| Pin | Colour | Contact pin | Signal        |
|-----|--------|-------------|---------------|
| 1   | gn     | 54.02.0450  | PI_RCLK       |
| 2   | gr     | 54.02.0450  | PI_RRXD       |
| 3   | bl     | 54.02.0450  | PI_RTXD       |
| 4   | --     | no pin      | *KEY*         |
| 5   | br     | 54.02.0454  | OSTABIN (GND) |
| 6   | ge     | 54.02.0450  | PI_IRLCK      |
| 7   | rs     | 54.02.0450  | PI_IRRXD      |
| 8   | rt     | 54.02.0450  | PI_IRTXD      |
| 9   | ws     | 54.02.0454  | STABIN. (60V) |

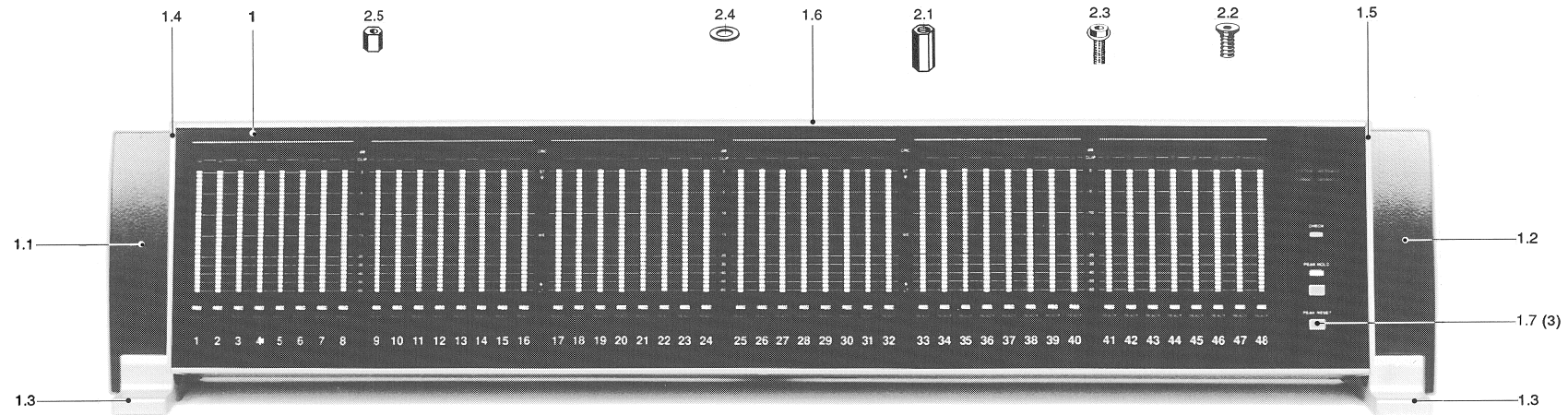
54.02.0452



## STUDER D827 MCH

REMOTE LEVEL DISPLAY (48CH) 1.328.730.00

REMOTE LEVEL DISPLAY (24CH) 1.328.735.00



| Index | Qty.      | Order No.                    | Part Name                                     | Specification |
|-------|-----------|------------------------------|---|---------------|
| 1     | 1<br>or 1 | 1.328.730.01<br>1.328.735.01 | Front cover Plexiglas only, for RLD           | 48CH<br>24CH  |
|       | 1<br>or   | 1.328.730.40<br>1.328.735.40 | Panel kit (Metalframe with Plexiglas mounted) | 48CH<br>24CH  |
| 1.1   | 1x        | 1.328.730.07                 | Purple trim                                   | left side     |
| 1.2   | 1         | 1.328.730.08                 | Purple trim                                   | right side    |
| 1.3   | 2         | 1.328.730.10                 | Foot  |               |
|       | 2         | 1.328.730.11                 | Antislidemat                                  |               |
| 1.4   | 1         | 1.328.730.03                 | Side panel                                    | left          |
| 1.5   | 1         | 1.328.730.04                 | Side panel                                    | right         |
| 1.6   | 1         | 1.328.730.05                 | Rear cover                                    | 48CH          |
|       | or 1      | 1.328.735.03                 | Rear cover                                    | 24CH          |
| 1.7   | 2         | 1.010.045.55                 | Push button light grey                        | 9x6.5         |
| 2.1   | 12 (6*)   | 1.010.225.27                 | Hexagon bolt                                  | M3/M3x16      |
| 2.2   | 12        | 21.51.2454                   | Counter sunk screw                            | M4x6          |
|       | 4         | 21.51.2457                   | Counter sunk screw                            | M4x12         |
| 2.3   | 4         | 21.53.0456                   | Chees head screw                              | M4x10         |
|       | 2         | 21.53.0510                   | Chees head screw                              | M5x20         |
|       | 27 (17*)  | 21.53.9354                   | Chees head screw with lock washer             | M3x6          |
| 2.4   | 8         | 23.01.2032                   | Washer  | D3.2/7x0.5    |
|       | 2         | 23.01.2053                   | Washer  | D5.3/10x1.0   |
|       | 20 (14*)  | 24.16.1030                   | Fin washer                                    | D3.2/5.5      |
|       | 4         | 24.16.1040                   | Fin washer                                    | D4.3/7        |
|       | 2         | 24.16.1050                   | Fin washer                                    | D5.3/9        |
| 2.5   |           | 22.01.8030                   | Nut   | 0.8/M3        |
| 3     | 2         | 55.15.0531                   | Pulse switch                                  |               |
| 4     | 2 (1*)    | 1.023.102.03                 | Flat. ribbon cable                            | 26pin/0.3m    |

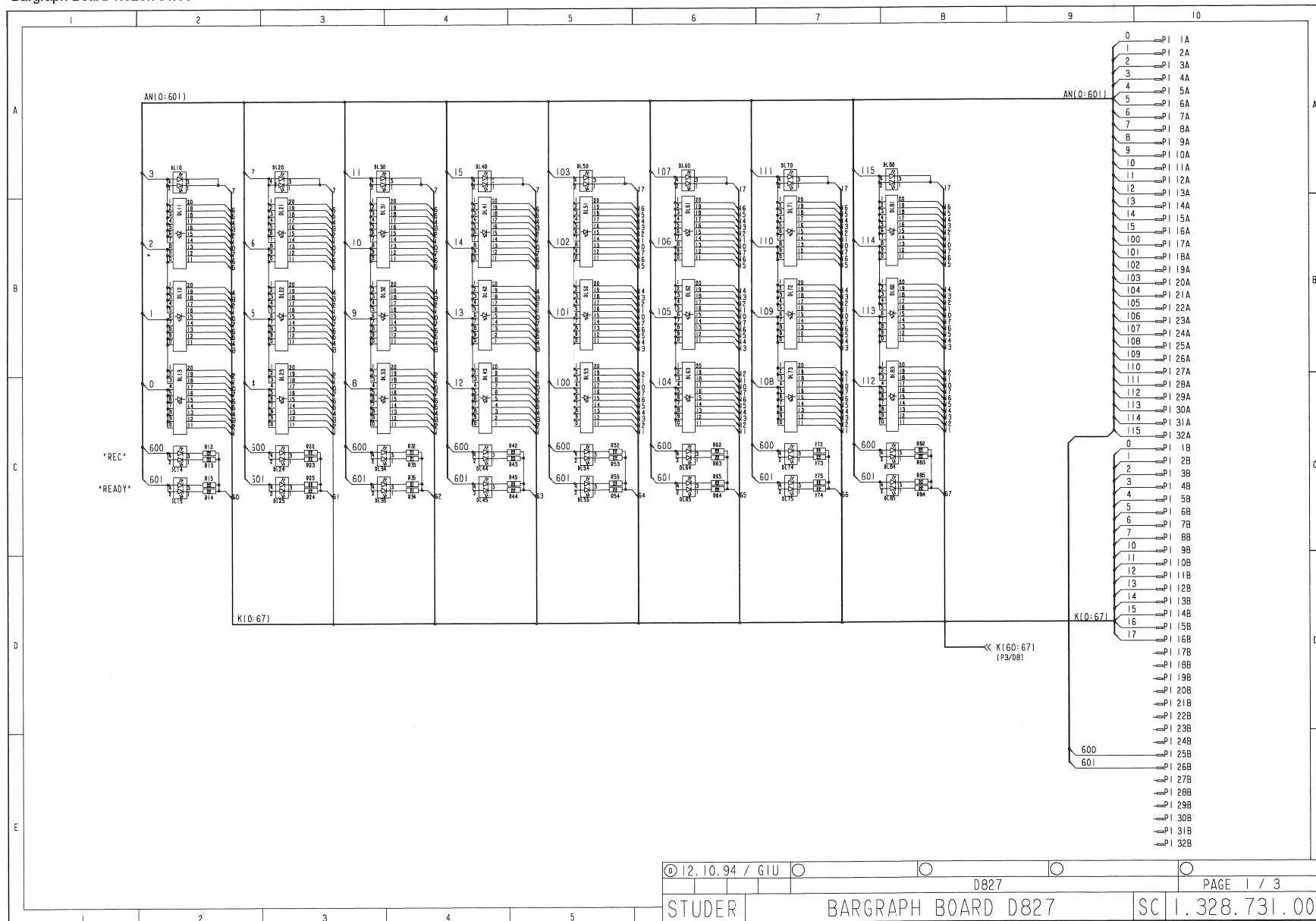
\* Amount of items for 24-CH-Version

### Connection cable:

| Index | Qty. | Order No.    | Part Name                      | Specification |
|-------|------|--------------|--------------------------------|---------------|
|       | 1    | 1.862.422.00 | 9 pin, D-Type connection cable | 15m           |

STUDER D827 MCH

REMOTE LEVEL DISPLAY (48CH) 1.328.730.00  
 REMOTE LEVEL DISPLAY (24CH) 1.328.735.00  
 -Bargraph Board 1.328.731.00

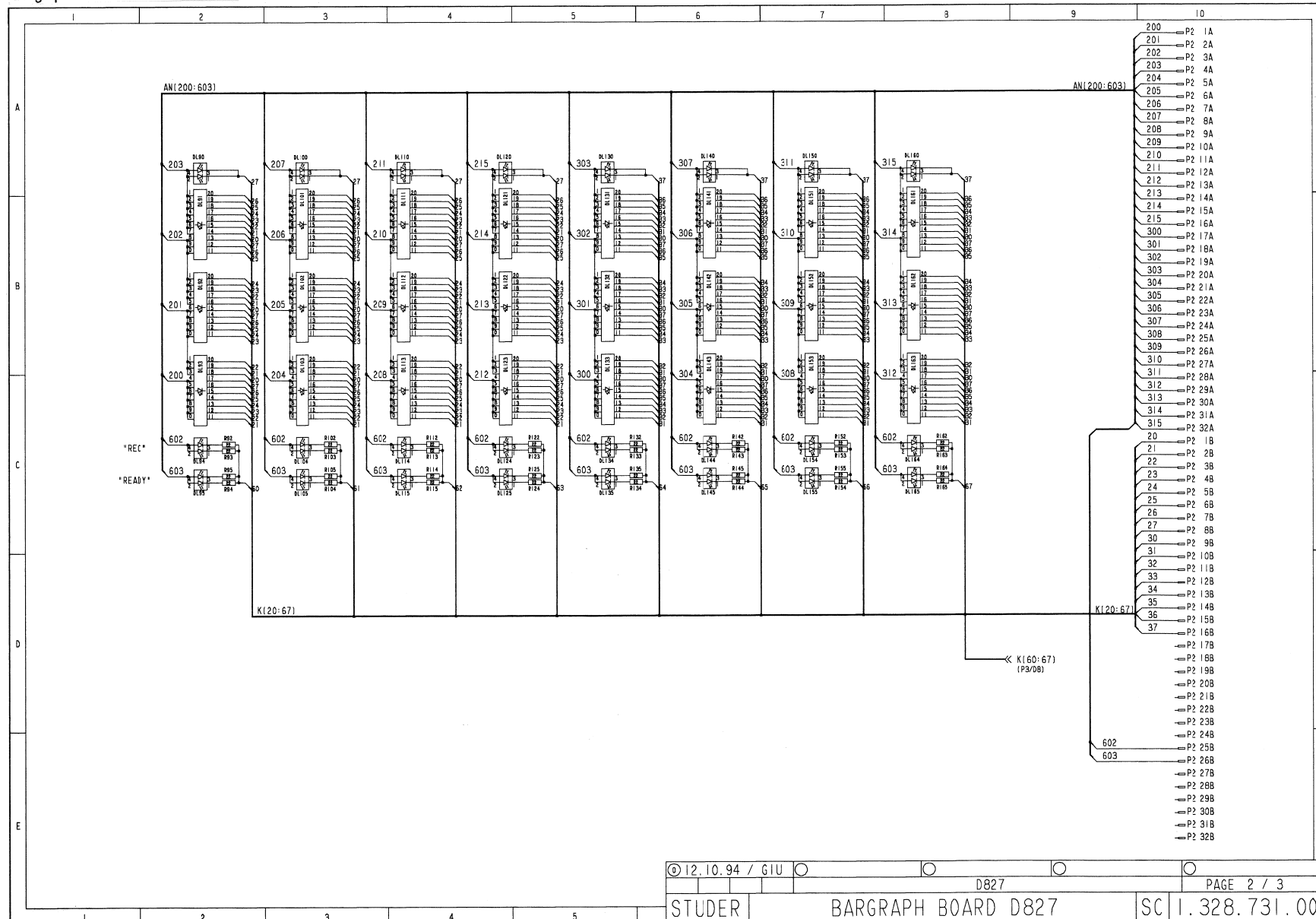


STUDER D827 MCH

REMOTE LEVEL DISPLAY (48CH) 1.328.730.00

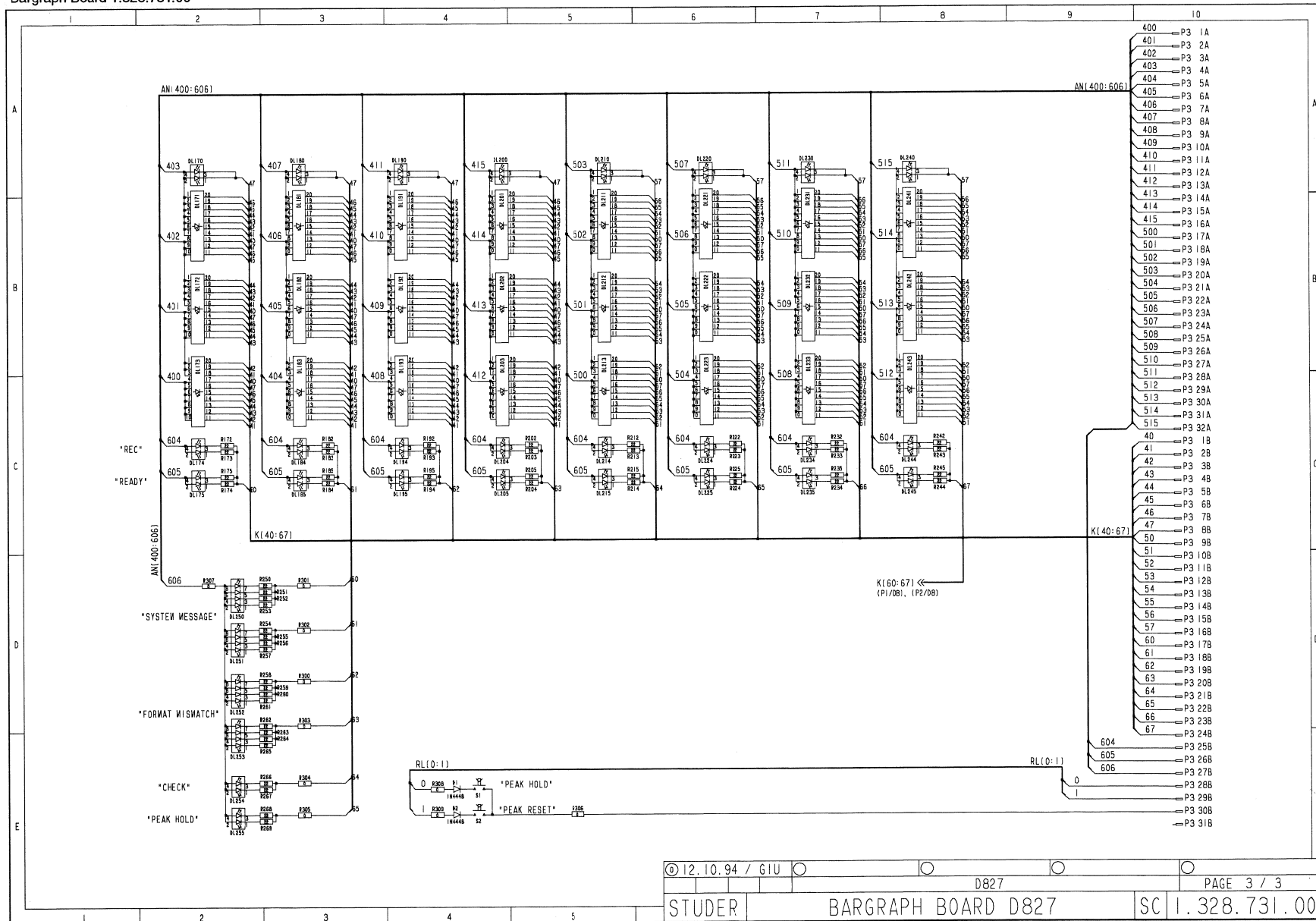
REMOTE LEVEL DISPLAY (24CH) 1.328.735.00

-Bargraph Board 1.328.731.00

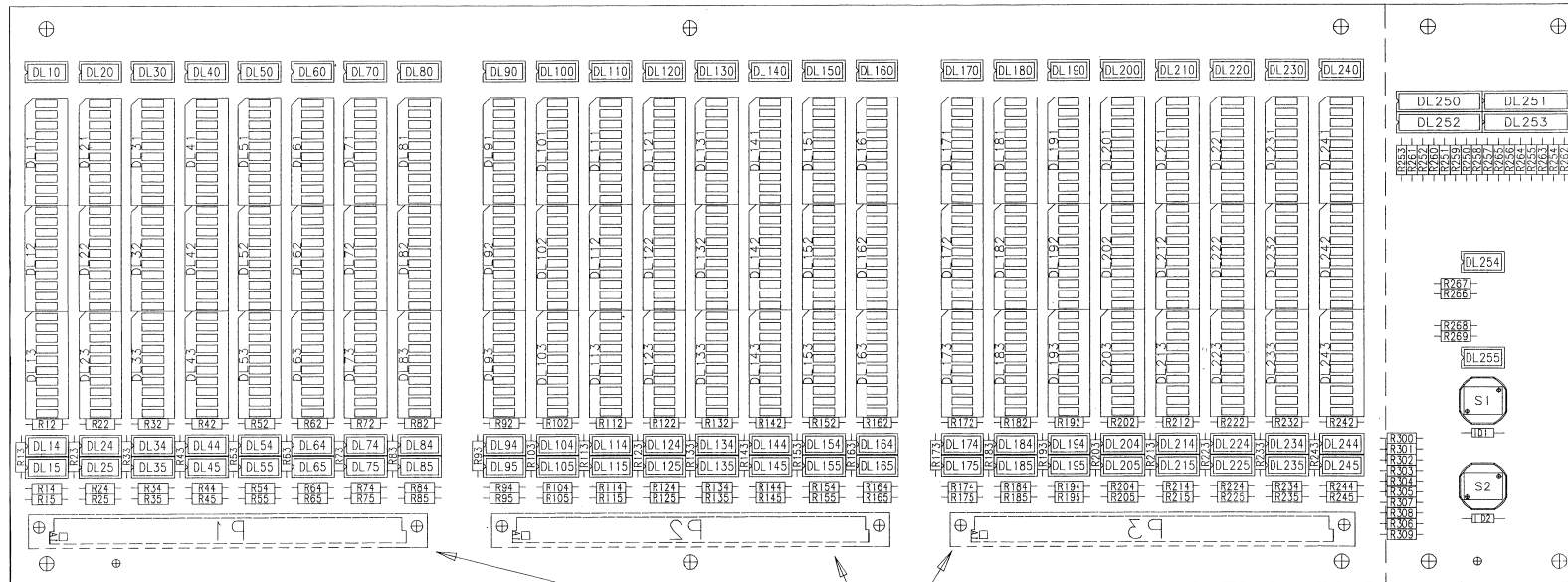


STUDER D827 MCH

REMOTE LEVEL DISPLAY (48CH) 1.328.730.00  
 REMOTE LEVEL DISPLAY (24CH) 1.328.735.00  
 -Bargraph Board 1.328.731.00



REMOTE LEVEL DISPLAY (48CH) 1.328.730.00  
 REMOTE LEVEL DISPLAY (24CH) 1.328.735.00  
 - Bargraph Board 1.328.731.00



Insert on soldes side

Use the same tape of illumination class for the entire assembly (e.g.L).

- DL 10, DL 20 bis DL 230, DL 240
- DL 11, DL 21 bis DL 231, DL 241
- DL 12, DL 13 bis DL 242, DL 243
- DL 14, DL 24 bis DL 234, DL 244
- DL 15, DL 25 bis DL 235, DL 245
- DL 250, D\_251, DL 252, DL 253
- DL 254, D\_255

|               |          |     |     |     |  |  |  |
|---------------|----------|-----|-----|-----|--|--|--|
| Wahl Funktion |          |     |     |     |  |  |  |
| Angabe        | 23.01.95 | GIU | HAE | WST |  |  |  |
| Date          | 12.10.94 | GIU | HAE | WST |  |  |  |
| Viso          |          |     |     |     |  |  |  |
| Datum         |          |     |     |     |  |  |  |
| Zeichn.       |          |     |     |     |  |  |  |
| Gez.          |          |     |     |     |  |  |  |
| Gepr.         |          |     |     |     |  |  |  |
| Seit          |          |     |     |     |  |  |  |
| Blatt         |          |     |     |     |  |  |  |
| Index         |          |     |     |     |  |  |  |

STUDER  
 REGENSDORF  
 Beschreibung: BARGRAPH BOARD D827  
 Number: 1.328.731.00



# STUDER D827 MCH

REMOTE LEVEL DISPLAY (48CH) 1.328.730.00

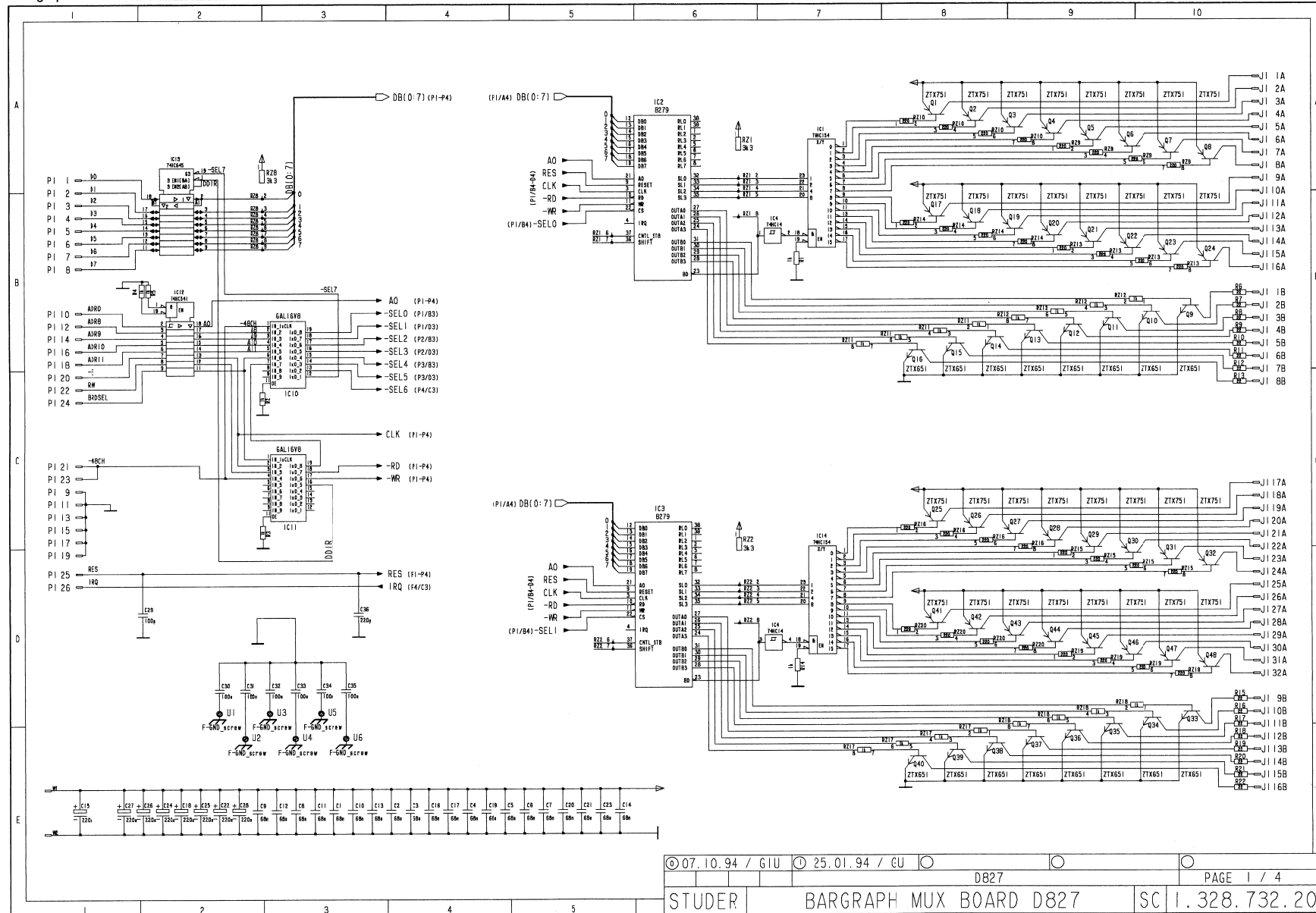
REMOTE LEVEL DISPLAY (24CH) 1.328.735.00

- Bargraph Board 1.328.731.00

| Ad   | ..POS.. | ...REF.No... | DESCRIPTION..... | MANUFACTURER  | Ad   | ..POS.. | ...REF.No... | DESCRIPTION..... | MANUFACTURER                      |
|------|---------|--------------|------------------|---------------|--|---------|--------------|------------------|-----------------------------------|
| R... | 62      | 57.11.3220   | 22               | 1%, 0207 , MF | R...   | 261     | 57.11.3220   | 22               | 1%, 0207 , MF                     |
| R... | 63      | 57.11.3220   | 22               | 1%, 0207 , MF | R...   | 262     | 57.11.3220   | 22               | 1%, 0207 , MF                     |
| R... | 64      | 57.11.3220   | 22               | 1%, 0207 , MF | R...   | 263     | 57.11.3220   | 22               | 1%, 0207 , MF                     |
| R... | 65      | 57.11.3220   | 22               | 1%, 0207 , MF | K...   | 264     | 57.11.3220   | 22               | 1%, 0207 , MF                     |
| R... | 72      | 57.11.3220   | 22               | 1%, 0207 , MF | R...   | 265     | 57.11.3220   | 22               | 1%, 0207 , MF                     |
| R... | 73      | 57.11.3220   | 22               | 1%, 0207 , MF | R...   | 266     | 57.11.3220   | 22               | 1%, 0207 , MF                     |
| R... | 74      | 57.11.3220   | 22               | 1%, 0207 , MF | R...   | 267     | 57.11.3220   | 22               | 1%, 0207 , MF                     |
| R... | 75      | 57.11.3220   | 22               | 1%, 0207 , MF | R...   | 268     | 57.11.3220   | 22               | 1%, 0207 , MF                     |
| R... | 82      | 57.11.3220   | 22               | 1%, 0207 , MF | R...   | 269     | 57.11.3220   | 22               | 1%, 0207 , MF                     |
| R... | 83      | 57.11.3220   | 22               | 1%, 0207 , MF | R...   | 300     | 57.11.3000   | 0                | 0207 , MF R 0-OHM                 |
| R... | 84      | 57.11.3220   | 22               | 1%, 0207 , MF | R...   | 301     | 57.11.3000   | 0                | 0207 , MF R 0-OHM                 |
| R... | 85      | 57.11.3220   | 22               | 1%, 0207 , MF | R...   | 302     | 57.11.3000   | 0                | 0207 , MF R 0-OHM                 |
| R... | 92      | 57.11.3220   | 22               | 1%, 0207 , MF | R...   | 303     | 57.11.3000   | 0                | 0207 , MF R 0-OHM                 |
| R... | 93      | 57.11.3220   | 22               | 1%, 0207 , MF | R...   | 304     | 57.11.3000   | 0                | 0207 , MF R 0-OHM                 |
| R... | 94      | 57.11.3220   | 22               | 1%, 0207 , MF | R...   | 305     | 57.11.3000   | 0                | 0207 , MF R 0-OHM                 |
| R... | 95      | 57.11.3220   | 22               | 1%, 0207 , MF | R...   | 306     | 57.11.3000   | 0                | 0207 , MF R 0-OHM                 |
| R... | 102     | 57.11.3220   | 22               | 1%, 0207 , MF | R...   | 307     | 57.11.3000   | 0                | 0207 , MF R 0-OHM                 |
| R... | 103     | 57.11.3220   | 22               | 1%, 0207 , MF | R...   | 308     | 57.11.3000   | 0                | 0207 , MF R 0-OHM                 |
| R... | 104     | 57.11.3220   | 22               | 1%, 0207 , MF | R...   | 309     | 57.11.3000   | 0                | 0207 , MF R 0-OHM                 |
| R... | 105     | 57.11.3220   | 22               | 1%, 0207 , MF | S.....   | 1       | 55.15.0531   |                  | TASTE 1*A IMPULS OHNE KN          |
| R... | 112     | 57.11.3220   | 22               | 1%, 0207 , MF | S.....   | 2       | 55.15.0531   |                  | TASTE 1*A IMPULS OHNE KN          |
| R... | 113     | 57.11.3220   | 22               | 1%, 0207 , MF | XIC...   | 1       | 53.03.0165   |                  | *QTY 72* XIC DIL 20-POL           |
| R... | 114     | 57.11.3220   | 22               | 1%, 0207 , MF | XIC...   | 2       | 53.03.0220   |                  | *QTY 328* IN-LINE IPIN=1STK       |
| R... | 115     | 57.11.3220   | 22               | 1%, 0207 , MF | Use for one groupe only LED from the same category of luminous intensity |         |              |                  |                                   |
| R... | 122     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         | 1.328.731-00 |                  | BARGRAPH BOARD D827 GIU94-10-1200 |
| R... | 123     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         | 1.328.731-00 |                  | BARGRAPH BOARD D827 GIU95-01-2301 |
| R... | 124     | 57.11.3220   | 22               | 1%, 0207 , MF | END  |         |              |                  |                                   |
| R... | 125     | 57.11.3220   | 22               | 1%, 0207 , MF | →  |         |              |                  |                                   |
| R... | 132     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 133     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 134     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 135     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 142     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 143     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 144     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 145     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 152     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 153     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 154     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 155     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 162     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 163     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 164     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 165     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 172     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 173     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 174     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 175     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 182     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 183     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 184     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 185     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 192     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 193     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 194     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 195     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 202     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 203     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 204     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 205     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 212     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 213     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 214     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 215     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 222     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 223     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 224     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 225     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 232     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 233     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 234     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 235     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 242     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 243     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 244     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 245     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 250     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 251     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 252     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 253     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 254     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 255     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 256     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 257     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 258     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 259     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |
| R... | 260     | 57.11.3220   | 22               | 1%, 0207 , MF |  |         |              |                  |                                   |

STUDER D827 MCH

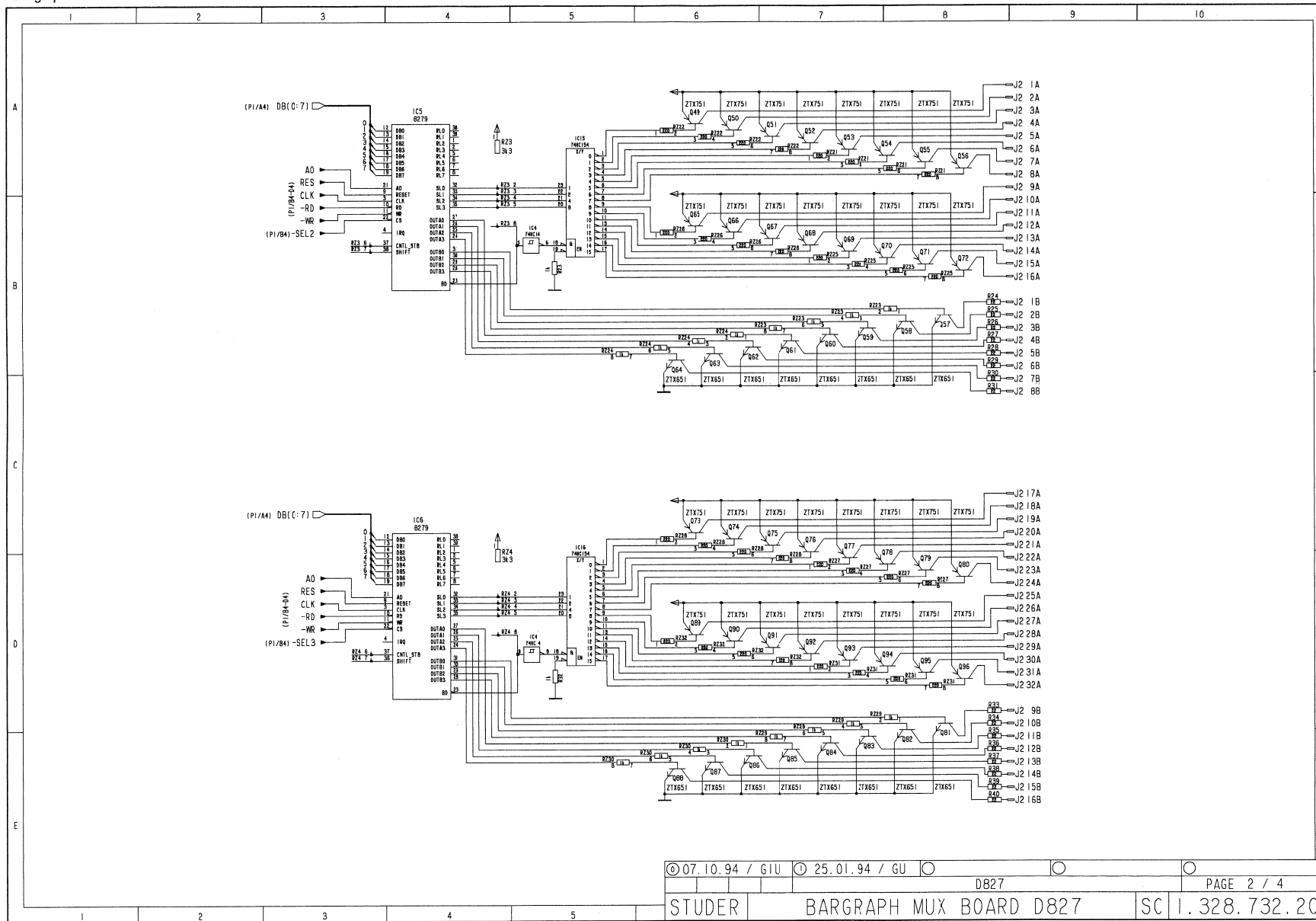
REMOTE LEVEL DISPLAY (48CH) 1.328.730.00  
 REMOTE LEVEL DISPLAY (24CH) 1.328.735.00  
 - Bargraph Mux Board 1.328.732.20





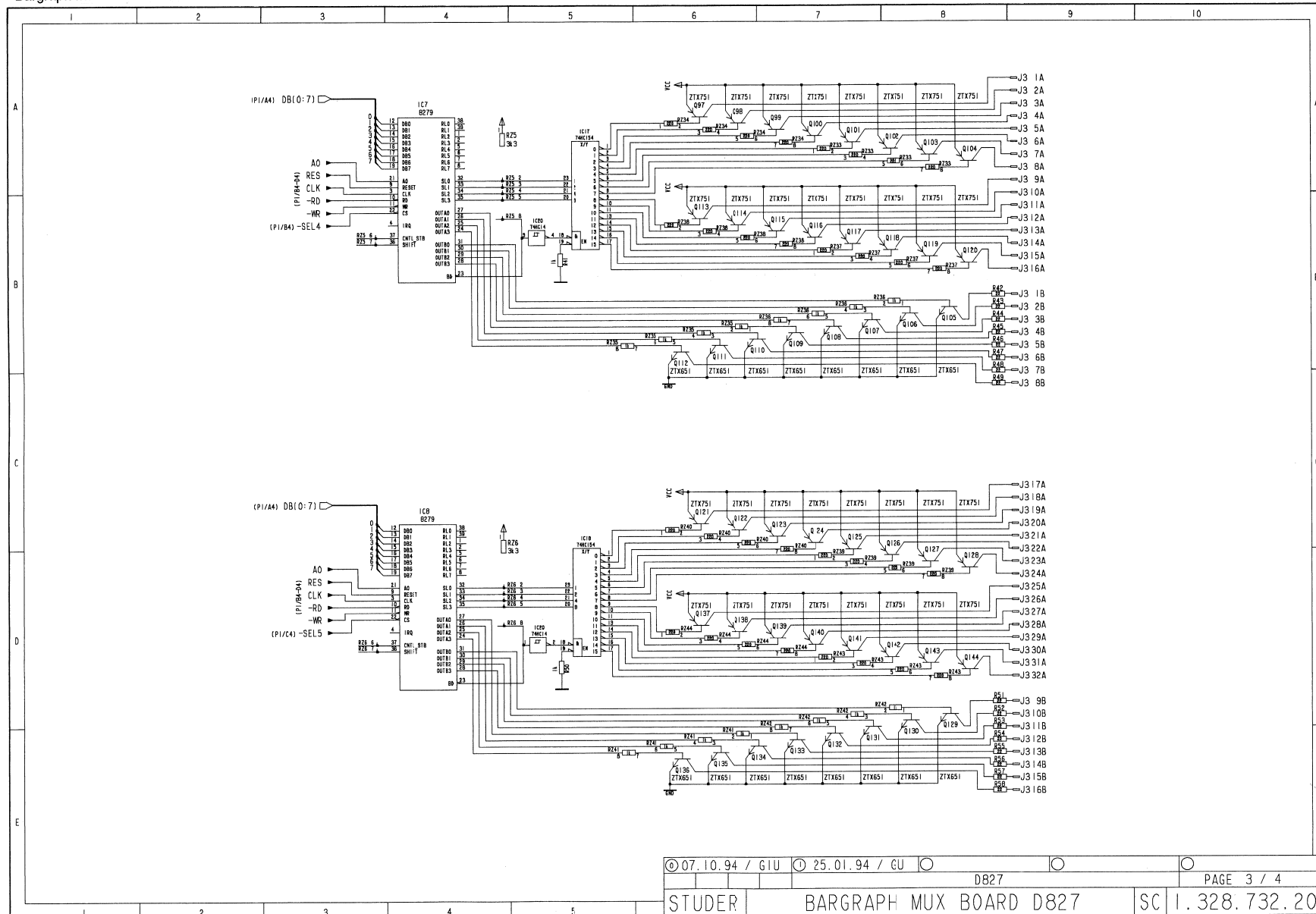
STUDER D827 MCH

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 REMOTE LEVEL DISPLAY (24CH) 1.328.735.00  
 - Bargraph Mux Board 1.328.732.20



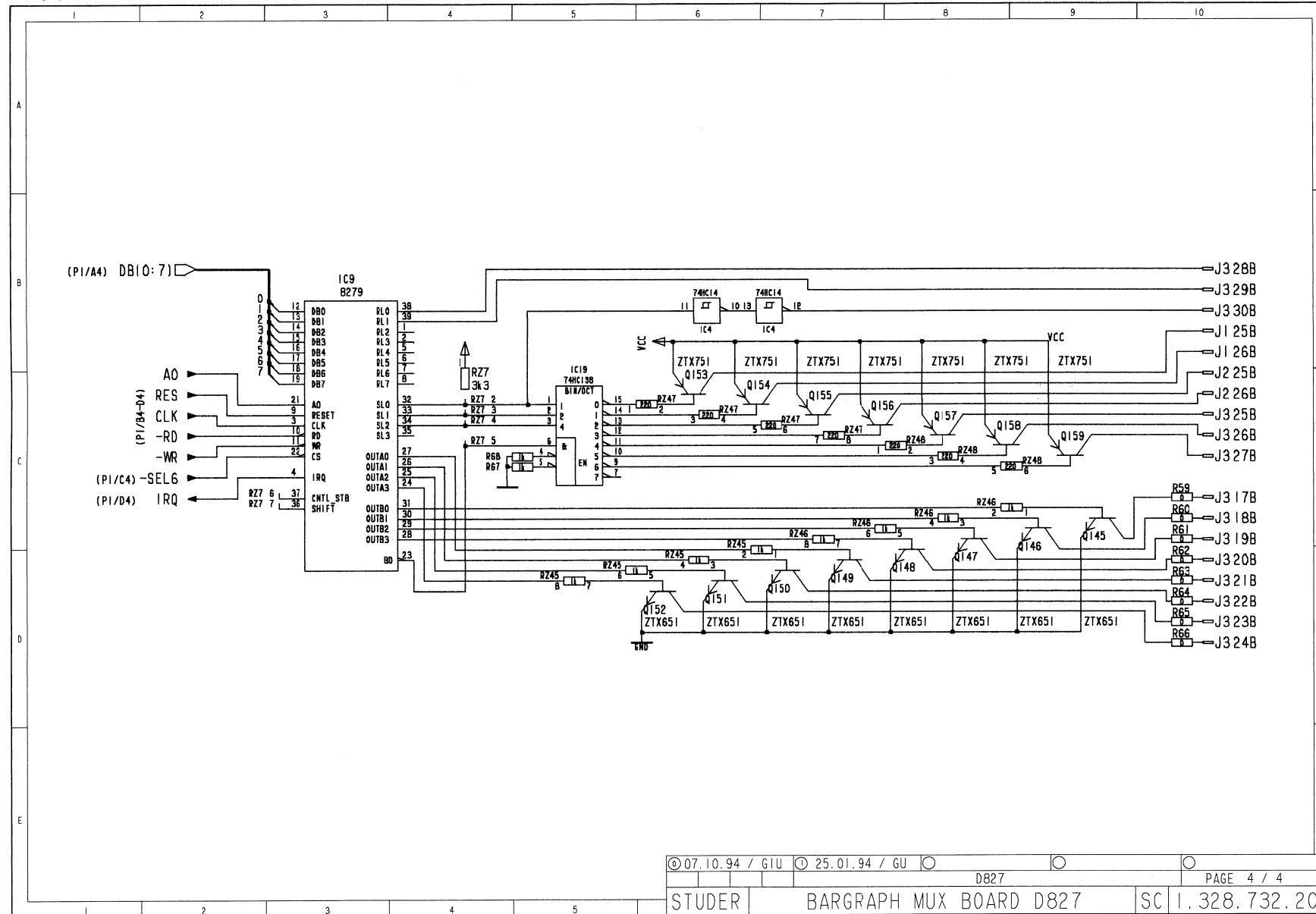
STUDER D827 MCH

REMOTE LEVEL DISPLAY (48CH) 1.328.730.00  
 REMOTE LEVEL DISPLAY (24CH) 1.328.735.00  
 - Bargraph Mux Board 1.328.732.20



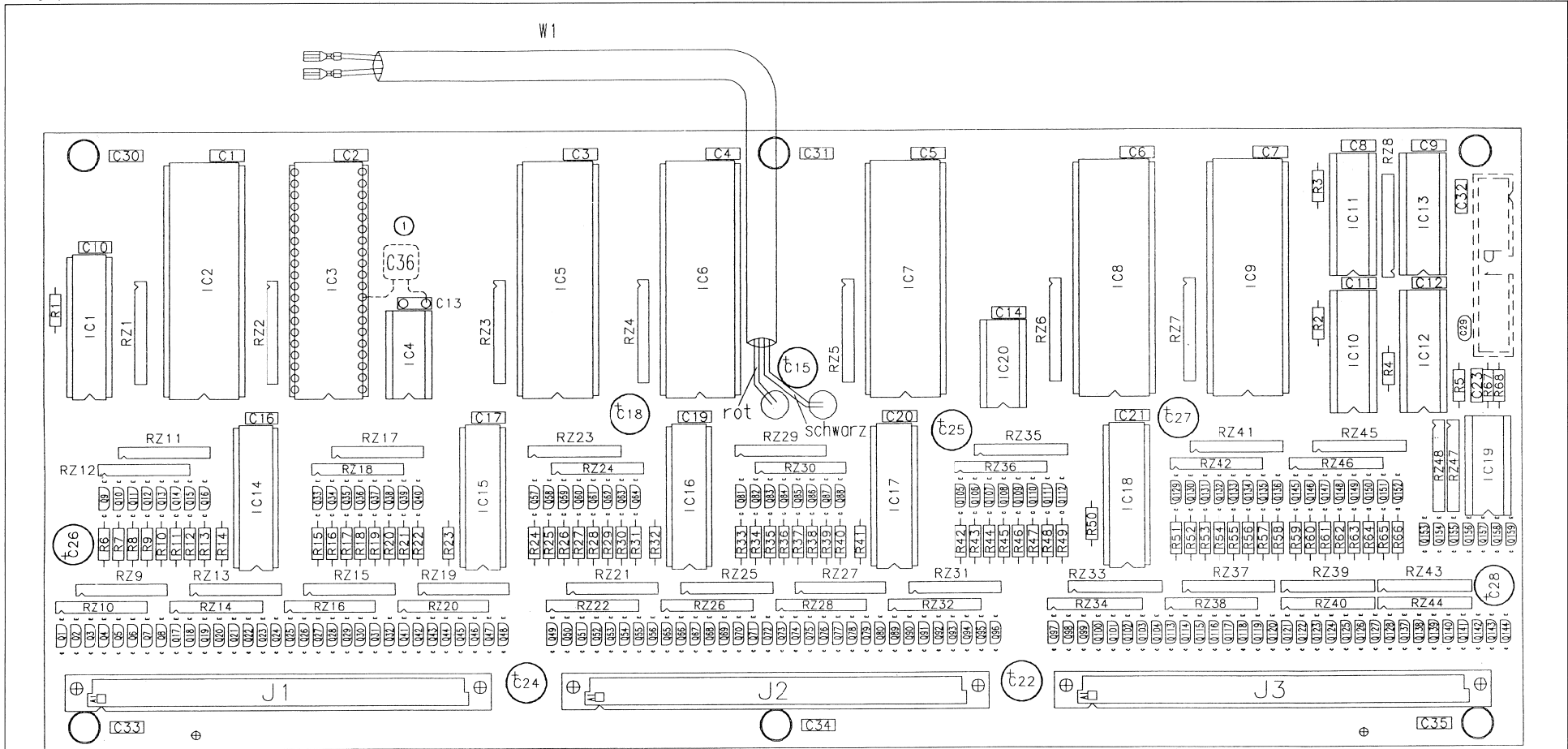
STUDER D827 MCH

REMOTE LEVEL DISPLAY (48CH) 1.328.730.00  
 REMOTE LEVEL DISPLAY (24CH) 1.328.735.00  
 - Bargraph Mux Board 1.328.732.20



STUDER D827 MCH

REMOTE LEVEL DISPLAY (48CH) 1.328.730.00  
 REMOTE LEVEL DISPLAY (24CH) 1.328.735.00  
 - Bargraph Mux Board 1.328.732.20



| Idx. Pos. | Part No. | Qty.       | Type/Val. | Description         | Idx. Pos. | Part No. | Qty.       | Type/Val. | Description         |
|-----------|----------|------------|-----------|---------------------|-----------|----------|------------|-----------|---------------------|
| 0         | C 1      | 59.06.0683 | 68n       | PETP, 63V, 10%, RMS | 0         | C 19     | 59.06.0683 | 68n       | PETP, 63V, 10%, RMS |
| 0         | C 2      | 59.06.0683 | 68n       | PETP, 63V, 10%, RMS | 0         | C 20     | 59.06.0683 | 68n       | PETP, 63V, 10%, RMS |
| 0         | C 3      | 59.06.0683 | 68n       | PETP, 63V, 10%, RMS | 0         | C 21     | 59.06.0683 | 68n       | PETP, 63V, 10%, RMS |
| 0         | C 4      | 59.06.0683 | 68n       | PETP, 63V, 10%, RMS | 0         | C 22     | 59.22.3221 | 220u      | EL 10V, 20%, RMS    |
| 0         | C 5      | 59.06.0683 | 68n       | PETP, 63V, 10%, RMS | 0         | C 23     | 59.06.0683 | 68n       | PETP, 63V, 10%, RMS |
| 0         | C 6      | 59.06.0683 | 68n       | PETP, 63V, 10%, RMS | 0         | C 24     | 59.22.3221 | 220u      | EL 10V, 20%, RMS    |
| 0         | C 7      | 59.06.0683 | 68n       | PETP, 63V, 10%, RMS | 0         | C 25     | 59.22.3221 | 220u      | EL 10V, 20%, RMS    |
| 0         | C 8      | 59.06.0683 | 68n       | PETP, 63V, 10%, RMS | 0         | C 26     | 59.22.3221 | 220u      | EL 10V, 20%, RMS    |
| 0         | C 9      | 59.06.0683 | 68n       | PETP, 63V, 10%, RMS | 0         | C 27     | 59.22.3221 | 220u      | EL 10V, 20%, RMS    |
| 0         | C 10     | 59.06.0683 | 68n       | PETP, 63V, 10%, RMS | 0         | C 28     | 59.22.3221 | 220u      | EL 10V, 20%, RMS    |
| 0         | C 11     | 59.06.0683 | 68n       | PETP, 63V, 10%, RMS | 0         | C 29     | 59.34.4101 | 100p      | CER 63V, 5%, N750   |
| 0         | C 12     | 59.06.0683 | 68n       | PETP, 63V, 10%, RMS | 0         | C 30     | 59.08.0104 | 100n      | PETP, 63V, 10%, RMS |
| 0         | C 13     | 59.06.0683 | 68n       | PETP, 63V, 10%, RMS | 0         | C 31     | 59.08.0104 | 100n      | PETP, 63V, 10%, RMS |
| 0         | C 14     | 59.06.0683 | 68n       | PETP, 63V, 10%, RMS | 0         | C 32     | 59.08.0104 | 100n      | PETP, 63V, 10%, RMS |
| 0         | C 15     | 59.22.3221 | 220u      | EL 10V, 20%, RMS    | 0         | C 33     | 59.08.0104 | 100n      | PETP, 63V, 10%, RMS |
| 0         | C 16     | 59.06.0683 | 68n       | PETP, 63V, 10%, RMS | 0         | C 34     | 59.08.0104 | 100n      | PETP, 63V, 10%, RMS |
| 0         | C 17     | 59.06.0683 | 68n       | PETP, 63V, 10%, RMS | 0         | C 35     | 59.08.0104 | 100n      | PETP, 63V, 10%, RMS |
| 0         | C 18     | 59.22.3221 | 220u      | EL 10V, 20%, RMS    | 1         | C 36     | 59.34.4221 | 220p      | CER 63V, 5%, N750   |

**STUDER**  
 REGENSDORF

Revision  
 BARGRAPH MUX BOARD D827 'ESE'

Number: 1.328.732.20

|                 |      |       |      |       |
|-----------------|------|-------|------|-------|
| Letzter Maßstab |      |       |      |       |
| Änderung        |      |       |      |       |
| 25.01.95        | GU   | VA    | SW   |       |
| 07.10.94        | GIU  | AVO   | WST  |       |
| Date            | Viso | Zeich | Seen | Indiv |
| Datum           | Gez  | Expr  | Ces  |       |

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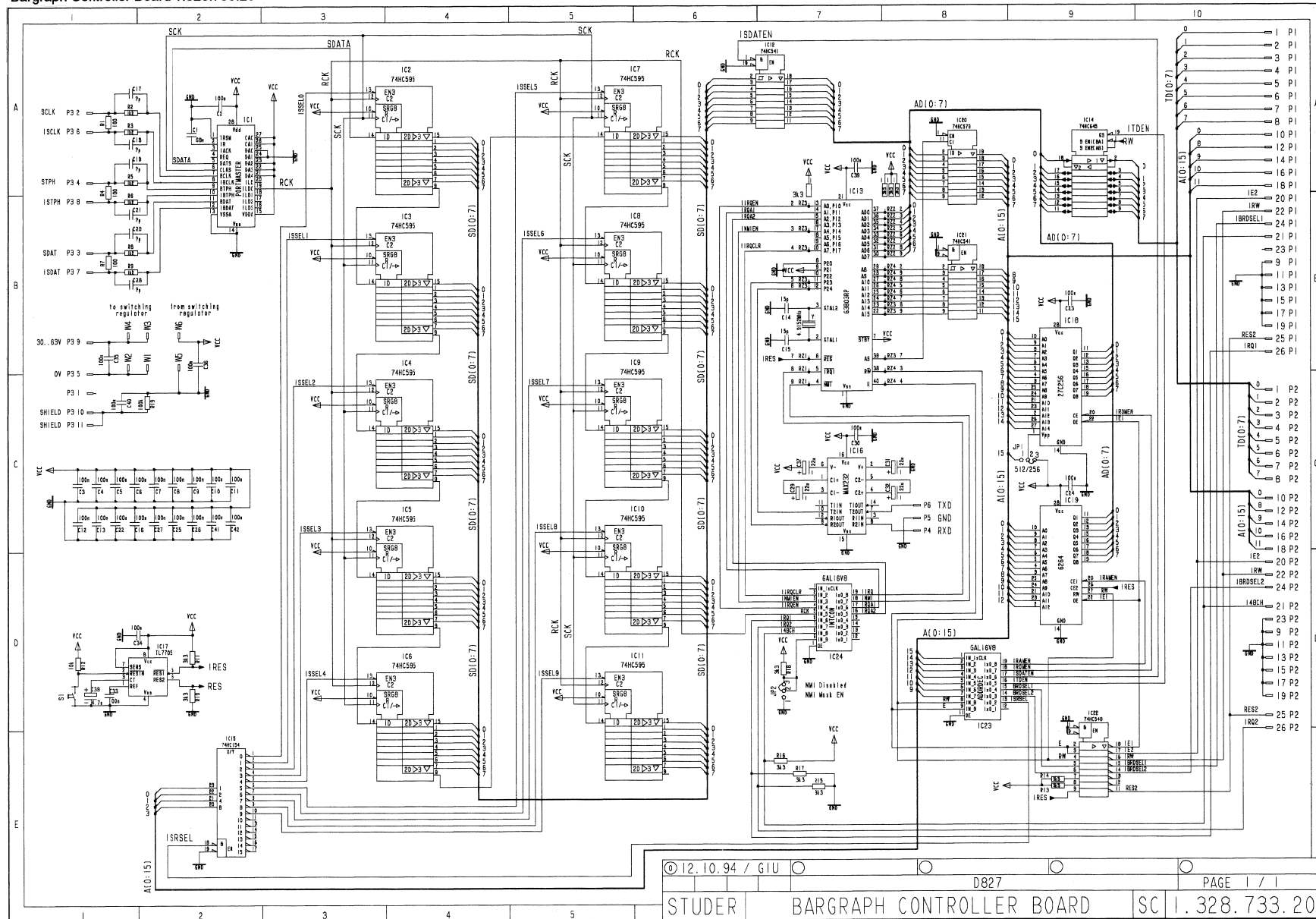
STUDER D827 MCH

REMOTE LEVEL DISPLAY (48CH) 1.328.730.00  
 REMOTE LEVEL DISPLAY (24CH) 1.328.735.00  
 - Bargraph Mux Board 1.328.732.00

| Idx. | Pos.  | Part No.     | Qty. | Type/Val. | Description                    | Idx. | Pos. | Part No.   | Qty. | Type/Val. | Description | Idx.  | Pos. | Part No.   | Qty. | Type/Val. | Description | Idx. | Pos.  | Part No.   | Qty. | Type/Val. | Description |
|------|-------|--------------|------|-----------|--------------------------------|------|------|------------|------|-----------|-------------|-------|------|------------|------|-----------|-------------|------|-------|------------|------|-----------|-------------|
| 0    | IC 1  | 50.17.1154   |      | 74HC154   | 4-to16 Line driver, DIP24-300  | Q 48 |      | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | Q 133 |      | 50.03.0523 |      | ZTX651    | ZTX 651     | 0    | R 59  | 57.11.3000 | 0R0  | MF,       | 0207        |
| 2    | IC 2  | 50.16.0703   |      | 8279      | IC TMP 82 C 79 P-2             | Q 49 |      | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | Q 134 |      | 50.03.0523 |      | ZTX651    | ZTX 651     | 0    | R 60  | 57.11.3000 | 0R0  | MF,       | 0207        |
| 2    | IC 3  | 50.16.0703   |      | 8279      | IC TMP 82 C 79 P-2             | Q 50 |      | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | Q 135 |      | 50.03.0523 |      | ZTX651    | ZTX 651     | 0    | R 61  | 57.11.3000 | 0R0  | MF,       | 0207        |
| 0    | IC 4  | 50.17.1014   |      | 74HC14    | IC ... 74 HC 14 .. A           | Q 51 |      | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | Q 136 |      | 50.03.0523 |      | ZTX651    | ZTX 651     | 0    | R 62  | 57.11.3000 | 0R0  | MF,       | 0207        |
| 2    | IC 5  | 50.16.0703   |      | 8279      | IC TMP 82 C 79 P-2             | Q 52 |      | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | Q 137 |      | 50.03.0523 |      | ZTX651    | ZTX 751 S   | 0    | R 63  | 57.11.3000 | 0R0  | MF,       | 0207        |
| 2    | IC 6  | 50.16.0703   |      | 8279      | IC TMP 82 C 79 P-2             | Q 53 |      | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | Q 138 |      | 50.03.0523 |      | ZTX651    | ZTX 751 S   | 0    | R 64  | 57.11.3000 | 0R0  | MF,       | 0207        |
| 2    | IC 7  | 50.16.0703   |      | 8279      | IC TMP 82 C 79 P-2             | Q 54 |      | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | Q 139 |      | 50.03.0523 |      | ZTX651    | ZTX 751 S   | 0    | R 65  | 57.11.3000 | 0R0  | MF,       | 0207        |
| 2    | IC 8  | 50.16.0703   |      | 8279      | IC TMP 82 C 79 P-2             | Q 55 |      | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | Q 140 |      | 50.03.0523 |      | ZTX651    | ZTX 751 S   | 0    | R 66  | 57.11.3000 | 0R0  | MF,       | 0207        |
| 0    | IC 9  | 50.16.0111   |      | 8279      | IC IP 8279-5, ID 8279-5,       | Q 56 |      | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | Q 141 |      | 50.03.0523 |      | ZTX651    | ZTX 751 S   | 0    | R 67  | 57.11.3102 | 1K0  | MF, 1%,   | 0207        |
| 0    | IC 10 | 50.18.0100   |      | PLD16V8   | 16 V 8 D - 25 LP               | Q 57 |      | 50.03.0523 |      | ZTX651    | ZTX 651     | Q 142 |      | 50.03.0523 |      | ZTX651    | ZTX 751 S   | 0    | R 68  | 57.11.3102 | 1K0  | MF, 1%,   | 0207        |
| 0    | IC 11 | 50.18.0100   |      | PLD16V8   | 16 V 8 D - 25 LP               | Q 58 |      | 50.03.0523 |      | ZTX651    | ZTX 651     | Q 143 |      | 50.03.0523 |      | ZTX651    | ZTX 751 S   | 0    | R 69  | 57.11.3102 | 1K0  | MF, 1%,   | 0207        |
| 0    | IC 12 | 50.17.1561   |      | 74HC561   | IC ... 74 HC 561 .. A          | Q 59 |      | 50.03.0523 |      | ZTX651    | ZTX 651     | Q 144 |      | 50.03.0523 |      | ZTX651    | ZTX 751 S   | 0    | R 70  | 57.11.3102 | 1K0  | MF, 1%,   | 0207        |
| 0    | IC 13 | 50.17.1645   |      | 74HC245   | IC ... 74 HC 245B45 .. A       | Q 60 |      | 50.03.0523 |      | ZTX651    | ZTX 651     | Q 145 |      | 50.03.0523 |      | ZTX651    | ZTX 651     | 0    | R 71  | 57.11.3102 | 1K0  | MF, 1%,   | 0207        |
| 0    | IC 14 | 50.17.1154   |      | 74HC154   | 4-to16 Line driver, DIP24-300  | Q 61 |      | 50.03.0523 |      | ZTX651    | ZTX 651     | Q 146 |      | 50.03.0523 |      | ZTX651    | ZTX 651     | 0    | R 72  | 57.11.3102 | 1K0  | MF, 1%,   | 0207        |
| 0    | IC 15 | 50.17.1154   |      | 74HC154   | 4-to16 Line driver, DIP24-300  | Q 62 |      | 50.03.0523 |      | ZTX651    | ZTX 651     | Q 147 |      | 50.03.0523 |      | ZTX651    | ZTX 651     | 0    | R 73  | 57.11.3102 | 1K0  | MF, 1%,   | 0207        |
| 0    | IC 16 | 50.17.1154   |      | 74HC154   | 4-to16 Line driver, DIP24-300  | Q 63 |      | 50.03.0523 |      | ZTX651    | ZTX 651     | Q 148 |      | 50.03.0523 |      | ZTX651    | ZTX 651     | 0    | R 74  | 57.11.3102 | 1K0  | MF, 1%,   | 0207        |
| 0    | IC 17 | 50.17.1154   |      | 74HC154   | 4-to16 Line driver, DIP24-300  | Q 64 |      | 50.03.0523 |      | ZTX651    | ZTX 651     | Q 149 |      | 50.03.0523 |      | ZTX651    | ZTX 651     | 0    | R 75  | 57.11.3102 | 1K0  | MF, 1%,   | 0207        |
| 0    | IC 18 | 50.17.1154   |      | 74HC154   | 4-to16 Line driver, DIP24-300  | Q 65 |      | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | Q 150 |      | 50.03.0523 |      | ZTX651    | ZTX 651     | 0    | R 76  | 57.11.3102 | 1K0  | MF, 1%,   | 0207        |
| 0    | IC 19 | 50.17.1138   |      | 74HC138   | IC ... 74 HC 138 .. A          | Q 66 |      | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | Q 151 |      | 50.03.0523 |      | ZTX651    | ZTX 651     | 0    | R 77  | 57.11.3102 | 1K0  | MF, 1%,   | 0207        |
| 0    | IC 20 | 50.17.1014   |      | 74HC14    | IC ... 74 HC 14 .. A           | Q 67 |      | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | Q 152 |      | 50.03.0523 |      | ZTX651    | ZTX 651     | 0    | R 78  | 57.11.3102 | 1K0  | MF, 1%,   | 0207        |
| 0    | J 1   | 54.11.2005   |      | 64-P      | J EU-B 2 * 32                  | Q 69 |      | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | Q 154 |      | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0    | R 79  | 57.11.3102 | 1K0  | MF, 1%,   | 0207        |
| 0    | J 2   | 54.11.2005   |      | 64-P      | J EU-B 2 * 32                  | Q 70 |      | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | Q 155 |      | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0    | R 80  | 57.11.3102 | 1K0  | MF, 1%,   | 0207        |
| 0    | J 3   | 54.11.2005   |      | 64-P      | J EU-B 2 * 32                  | Q 71 |      | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | Q 156 |      | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0    | R 81  | 57.11.3102 | 1K0  | MF, 1%,   | 0207        |
| 0    | MP 1  | 28.99.0119   | mp   |           | ROHRNIETE D 2.0*0.15* 9        | Q 72 |      | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | Q 167 |      | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0    | R 82  | 57.11.3102 | 1K0  | MF, 1%,   | 0207        |
| 0    | MP 2  | 28.99.0119   | mp   |           | ROHRNIETE D 2.0*0.15* 9        | Q 73 |      | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | Q 168 |      | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0    | R 83  | 57.11.3102 | 1K0  | MF, 1%,   | 0207        |
| 0    | MP 3  | 28.99.0119   | mp   |           | ROHRNIETE D 2.0*0.15* 9        | Q 74 |      | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | Q 169 |      | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0    | R 84  | 57.11.3102 | 1K0  | MF, 1%,   | 0207        |
| 0    | MP 4  | 28.99.0119   | mp   |           | ROHRNIETE D 2.0*0.15* 9        | Q 75 |      | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | Q 170 |      | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0    | R 85  | 57.11.3102 | 1K0  | MF, 1%,   | 0207        |
| 0    | MP 5  | 28.99.0119   | mp   |           | ROHRNIETE D 2.0*0.15* 9        | Q 76 |      | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | Q 171 |      | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0    | R 86  | 57.11.3102 | 1K0  | MF, 1%,   | 0207        |
| 0    | MP 6  | 28.99.0119   | mp   |           | ROHRNIETE D 2.0*0.15* 9        | Q 77 |      | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | Q 172 |      | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0    | R 87  | 57.11.3102 | 1K0  | MF, 1%,   | 0207        |
| 0    | MP 7  | 1.328.732.01 | mp   | Label     | NR-ETIKETTE 5 * 20             | Q 78 |      | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | Q 173 |      | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0    | R 88  | 57.11.3102 | 1K0  | MF, 1%,   | 0207        |
| 0    | MP 8  | 43.01.0108   | mp   | Label     | ESSE-WARNSSCHILD               | Q 79 |      | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | Q 174 |      | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | 0    | R 89  | 57.11.3102 | 1K0  | MF, 1%,   | 0207        |
| 0    | MP 9  | 1.101.001.20 | mp   | Label     | TEXT-ETIK. 5*20 HARDWARE -20   | Q 80 |      | 50.03.0523 |      | ZTX651    | ZTX 651     | Q 181 |      | 57.11.3102 | 1K0  | MF, 1%,   | 0207        | 0    | R 90  | 57.11.3102 | 1K0  | MF, 1%,   | 0207        |
| 0    | MP 10 | 1.328.732.11 | mp   | Label     | BARGRAPH MUX PCB/LI            | Q 81 |      | 50.03.0523 |      | ZTX651    | ZTX 651     | Q 182 |      | 57.11.3102 | 1K0  | MF, 1%,   | 0207        | 0    | R 91  | 57.11.3102 | 1K0  | MF, 1%,   | 0207        |
| 0    | P 1   | 54.14.2003   | 25p  |           | 1/20" Au, gerade, ohne Verrieg | Q 82 |      | 50.03.0523 |      | ZTX651    | ZTX 651     | Q 183 |      | 57.11.3102 | 1K0  | MF, 1%,   | 0207        | 0    | R 92  | 57.11.3102 | 1K0  | MF, 1%,   | 0207        |
| 0    | Q 1   | 50.03.0352   |      | ZTX751S   | ZTX 751 S                      | Q 86 |      | 50.03.0523 |      | ZTX651    | ZTX 651     | Q 184 |      | 57.11.3102 | 1K0  | MF, 1%,   | 0207        | 0    | R 93  | 57.11.3102 | 1K0  | MF, 1%,   | 0207        |
| 0    | Q 2   | 50.03.0352   |      | ZTX751S   | ZTX 751 S                      | Q 87 |      | 50.03.0523 |      | ZTX651    | ZTX 651     | Q 185 |      | 57.11.3102 | 1K0  | MF, 1%,   | 0207        | 0    | R 94  | 57.11.3102 | 1K0  | MF, 1%,   | 0207        |
| 0    | Q 3   | 50.03.0352   |      | ZTX751S   | ZTX 751 S                      | Q 88 |      | 50.03.0523 |      | ZTX651    | ZTX 651     | Q 186 |      | 57.11.3102 | 1K0  | MF, 1%,   | 0207        | 0    | R 95  | 57.11.3102 | 1K0  | MF, 1%,   | 0207        |
| 0    | Q 4   | 50.03.0352   |      | ZTX751S   | ZTX 751 S                      | Q 89 |      | 50.03.0523 |      | ZTX651    | ZTX 651     | Q 187 |      | 57.11.3102 | 1K0  | MF, 1%,   | 0207        | 0    | R 96  | 57.11.3102 | 1K0  | MF, 1%,   | 0207        |
| 0    | Q 5   | 50.03.0352   |      | ZTX751S   | ZTX 751 S                      | Q 90 |      | 50.03.0523 |      | ZTX651    | ZTX 651     | Q 188 |      | 57.11.3102 | 1K0  | MF, 1%,   | 0207        | 0    | R 97  | 57.11.3102 | 1K0  | MF, 1%,   | 0207        |
| 0    | Q 6   | 50.03.0352   |      | ZTX751S   | ZTX 751 S                      | Q 91 |      | 50.03.0523 |      | ZTX651    | ZTX 651     | Q 189 |      | 57.11.3102 | 1K0  | MF, 1%,   | 0207        | 0    | R 98  | 57.11.3102 | 1K0  | MF, 1%,   | 0207        |
| 0    | Q 7   | 50.03.0352   |      | ZTX751S   | ZTX 751 S                      | Q 92 |      | 50.03.0523 |      | ZTX651    | ZTX 651     | Q 190 |      | 57.11.3102 | 1K0  | MF, 1%,   | 0207        | 0    | R 99  | 57.11.3102 | 1K0  | MF, 1%,   | 0207        |
| 0    | Q 8   | 50.03.0352   |      | ZTX751S   | ZTX 751 S                      | Q 93 |      | 50.03.0523 |      | ZTX651    | ZTX 651     | Q 191 |      | 57.11.3102 | 1K0  | MF, 1%,   | 0207        | 0    | R 100 | 57.11.3102 | 1K0  | MF, 1%,   | 0207        |
| 0    | Q 9   | 50.03.0523   |      | ZTX651    | ZTX 651                        | Q 94 |      | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | Q 192 |      | 57.11.3102 | 1K0  | MF, 1%,   | 0207        | 0    | R 101 | 57.11.3102 | 1K0  | MF, 1%,   | 0207        |
| 0    | Q 10  | 50.03.0523   |      | ZTX651    | ZTX 651                        | Q 95 |      | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | Q 193 |      | 57.11.3102 | 1K0  | MF, 1%,   | 0207        | 0    | R 102 | 57.11.3102 | 1K0  | MF, 1%,   | 0207        |
| 0    | Q 11  | 50.03.0523   |      | ZTX651    | ZTX 651                        | Q 96 |      | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | Q 194 |      | 57.11.3102 | 1K0  | MF, 1%,   | 0207        | 0    | R 103 | 57.11.3102 | 1K0  | MF, 1%,   | 0207        |
| 0    | Q 12  | 50.03.0523   |      | ZTX651    | ZTX 651                        | Q 97 |      | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | Q 195 |      | 57.11.3102 | 1K0  | MF, 1%,   | 0207        | 0    | R 104 | 57.11.3102 | 1K0  | MF, 1%,   | 0207        |
| 0    | Q 13  | 50.03.0523   |      | ZTX651    | ZTX 651                        | Q 98 |      | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | Q 196 |      | 57.11.3102 | 1K0  | MF, 1%,   | 0207        | 0    | R 105 | 57.11.3102 | 1K0  | MF, 1%,   | 0207        |
| 0    | Q 14  | 50.03.0523   |      | ZTX651    | ZTX 651                        | Q 99 |      | 50.03.0352 |      | ZTX751S   | ZTX 751 S   | Q 197 |      | 57.11.3102 | 1K0  | MF, 1%,   | 0207        | 0    | R 106 | 57.11.310  |      |           |             |

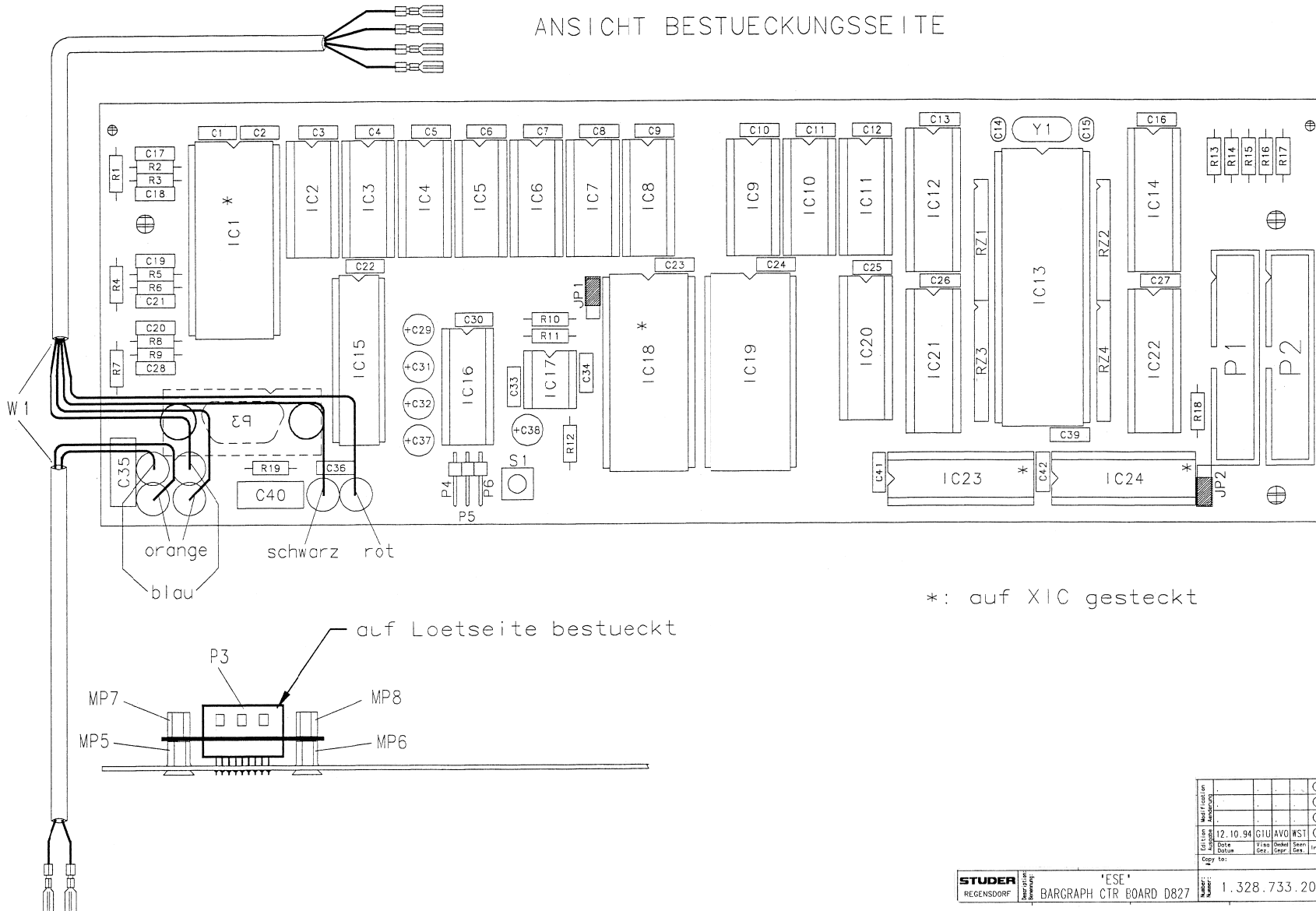
STUDER D827 MCH

REMOTE LEVEL DISPLAY (48CH) 1.328.730.00  
 REMOTE LEVEL DISPLAY (24CH) 1.328.735.00  
 -Bargraph Controller Board 1.328.733.20



REMOTE LEVEL DISPLAY (48CH) 1.328.730.00  
 REMOTE LEVEL DISPLAY (24CH) 1.328.735.00  
 -Bargraph Controller Board 1.328.733.20

ANSICHT BESTUECKUNGSSEITE



\*: auf XIC gesteckt

auf Loetseite bestueckt

|            |          |       |      |      |       |
|------------|----------|-------|------|------|-------|
| Erstellung | 12.10.94 | GIU   | AVG  | WS1  |       |
| Datei      |          | Verf. | Gez. | Seit | Index |
| Gez.       |          |       |      |      |       |

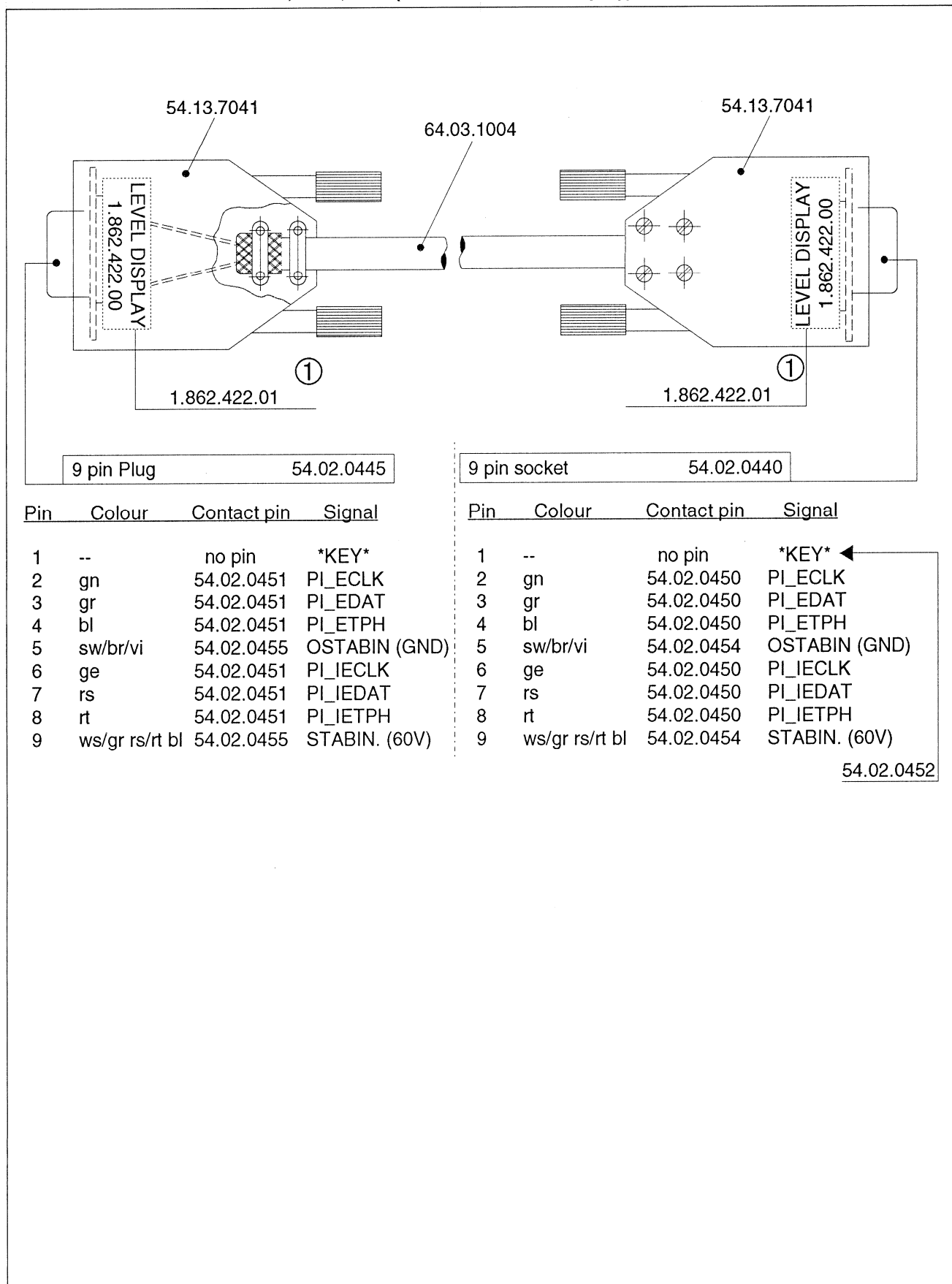
STUDER REGENSDORF 'ESE' BARGRAPH CTR BOARD D827 1.328.733.20

REMOTE LEVEL DISPLAY (48CH) 1.328.730.00  
 REMOTE LEVEL DISPLAY (24CH) 1.328.735.00  
 -Bargraph Controller Board 1.328.733.20

| Ad       | ..POS..      | ...REF.No... | DESCRIPTION.....                  | MANUFACTURER | Ad       | ..POS..      | ...REF.No... | DESCRIPTION.....                     | MANUFACTURER |
|----------|--------------|--------------|-----------------------------------|--------------|----------|--------------|--------------|--------------------------------------|--------------|
| C.....1  | 59.06.0683   | 68n          | 10%, 63V , PETP                   |              | R....10  | 57.11.3332   | 3.3 K        | 1%, 0207 , MF                        |              |
| C.....2  | 59.06.0104   | 100n         | 10%, 63V , PETP                   |              | R....11  | 57.11.3332   | 3.3 K        | 1%, 0207 , MF                        |              |
| C.....3  | 59.06.0104   | 100n         | 10%, 63V , PETP                   |              | R....12  | 57.11.3101   | 100          | 1%, 0207 , MF                        |              |
| C.....4  | 59.06.0104   | 100n         | 10%, 63V , PETP                   |              | R....13  | 57.11.3332   | 3.3 K        | 1%, 0207 , MF                        |              |
| C.....5  | 59.06.0104   | 100n         | 10%, 63V , PETP                   |              | R....14  | 57.11.3332   | 3.3 K        | 1%, 0207 , MF                        |              |
| C.....6  | 59.06.0104   | 100n         | 10%, 63V , PETP                   |              | R....15  | 57.11.3332   | 3.3 K        | 1%, 0207 , MF                        |              |
| C.....7  | 59.06.0104   | 100n         | 10%, 63V , PETP                   |              | R....16  | 57.11.3332   | 3.3 K        | 1%, 0207 , MF                        |              |
| C.....8  | 59.06.0104   | 100n         | 10%, 63V , PETP                   |              | R....17  | 57.11.3332   | 3.3 K        | 1%, 0207 , MF                        |              |
| C.....9  | 59.06.0104   | 100n         | 10%, 63V , PETP                   |              | R....18  | 57.11.3332   | 3.3 K        | 1%, 0207 , MF                        |              |
| C.....10 | 59.06.0104   | 100n         | 10%, 63V , PETP                   |              | R....19  | 57.11.3104   | 100 K        | 1%, 0207 , MF                        |              |
| C.....11 | 59.06.0104   | 100n         | 10%, 63V , PETP                   |              | RZ....1  | 57.88.4332   |              | 8 * 3.3 K, 2%, SIP 9                 |              |
| C.....12 | 59.06.0104   | 100n         | 10%, 63V , PETP                   |              | RZ....2  | 57.88.4332   |              | 8 * 3.3 K, 2%, SIP 9                 |              |
| C.....13 | 59.06.0104   | 100n         | 10%, 63V , PETP                   |              | RZ....3  | 57.88.4332   |              | 8 * 3.3 K, 2%, SIP 9                 |              |
| C.....14 | 59.34.1150   | 15p          | 5%, NP 0 , CER                    |              | RZ....4  | 57.88.4332   |              | 8 * 3.3 K, 2%, SIP 9                 |              |
| C.....15 | 59.34.1150   | 15p          | 5%, NP 0 , CER                    |              | S.....1  | 55.15.0138   | 1 TASTE      | 1*A,IMPULS,1.0 M                     |              |
| C.....16 | 59.06.0104   | 100n         | 10%, 63V , PETP                   |              | XIC...1  | 53.03.0173   |              | DIL 28-POL,                          |              |
| C.....17 | 59.06.0104   | 100n         | 10%, 63V , PETP                   |              | XIC...18 | 53.03.0173   |              | DIL 28-POL,                          |              |
| C.....18 | 59.06.0104   | 100n         | 10%, 63V , PETP                   |              | XIC...23 | 53.03.0165   |              | XIC DIL 20-POL                       |              |
| C.....19 | 59.06.0104   | 100n         | 10%, 63V , PETP                   |              | XIC...24 | 53.03.0165   |              | XIC DIL 20-POL                       |              |
| C.....20 | 59.06.0104   | 100n         | 10%, 63V , PETP                   |              | Y.....1  | 89.01.0560   |              | 4.9152 MHZ,                          |              |
| C.....21 | 59.06.0104   | 100n         | 10%, 63V , PETP                   |              | W.....1  | 1.328.733.93 |              | WIRING LIST                          |              |
| C.....22 | 59.06.0104   | 100n         | 10%, 63V , PETP                   |              |          | 1.328.733-20 |              | BARGRAPH CTR BOARD D827 ZT94-10-2400 |              |
| C.....23 | 59.06.0104   | 100n         | 10%, 63V , PETP                   |              |          |              |              |                                      |              |
| C.....24 | 59.06.0104   | 100n         | 10%, 63V , PETP                   |              |          |              |              |                                      |              |
| C.....25 | 59.06.0104   | 100n         | 10%, 63V , PETP                   |              |          |              |              |                                      |              |
| C.....26 | 59.06.0104   | 100n         | 10%, 63V , PETP                   |              |          |              |              |                                      |              |
| C.....27 | 59.06.0104   | 100n         | 10%, 63V , PETP                   |              |          |              |              |                                      |              |
| C.....28 | 59.06.0104   | 100n         | 10%, 63V , PETP                   |              |          |              |              |                                      |              |
| C.....29 | 59.22.5220   | 22u          | -20%, 25V , EL                    |              |          |              |              |                                      |              |
| C.....30 | 59.06.0104   | 100n         | 10%, 63V , PETP                   |              |          |              |              |                                      |              |
| C.....31 | 59.22.5220   | 22u          | -20%, 25V , EL                    |              |          |              |              |                                      |              |
| C.....32 | 59.22.5220   | 22u          | -20%, 25V , EL                    |              |          |              |              |                                      |              |
| C.....33 | 59.06.0104   | 100n         | 10%, 63V , PETP                   |              |          |              |              |                                      |              |
| C.....34 | 59.06.0104   | 100n         | 10%, 63V , PETP                   |              |          |              |              |                                      |              |
| C.....35 | 59.06.0104   | 100n         | 10%, 63V , PETP                   |              |          |              |              |                                      |              |
| C.....36 | 59.06.0104   | 100n         | 10%, 63V , PETP                   |              |          |              |              |                                      |              |
| C.....36 | 59.06.0104   | 100n         | 10%, 63V , PETP                   |              |          |              |              |                                      |              |
| C.....37 | 59.22.5220   | 22u          | -20%, 25V , EL                    |              |          |              |              |                                      |              |
| C.....38 | 59.22.5220   | 22u          | -20%, 25V , EL                    |              |          |              |              |                                      |              |
| C.....39 | 59.06.0104   | 100n         | 10%, 63V , PETP                   |              |          |              |              |                                      |              |
| C.....40 | 59.06.0104   | 100n         | 10%, 63V , PETP                   |              |          |              |              |                                      |              |
| C.....41 | 59.06.0104   | 100n         | 10%, 63V , PETP                   |              |          |              |              |                                      |              |
| C.....42 | 59.06.0104   | 100n         | 10%, 63V , PETP                   |              |          |              |              |                                      |              |
| IC....1  | 50.50.0010   |              | PORTMASTER (2.861.710.00)         |              |          |              |              |                                      |              |
| IC....2  | 50.17.1595   |              | 74 HC 595                         |              |          |              |              |                                      |              |
| IC....3  | 50.17.1595   |              | 74 HC 595                         |              |          |              |              |                                      |              |
| IC....4  | 50.17.1595   |              | 74 HC 595                         |              |          |              |              |                                      |              |
| IC....5  | 50.17.1595   |              | 74 HC 595                         |              |          |              |              |                                      |              |
| IC....6  | 50.17.1595   |              | 74 HC 595                         |              |          |              |              |                                      |              |
| IC....7  | 50.17.1595   |              | 74 HC 595                         |              |          |              |              |                                      |              |
| IC....8  | 50.17.1595   |              | 74 HC 595                         |              |          |              |              |                                      |              |
| IC....9  | 50.17.1595   |              | 74 HC 595                         |              |          |              |              |                                      |              |
| IC....10 | 50.17.1595   |              | 74 HC 595                         |              |          |              |              |                                      |              |
| IC....11 | 50.17.1595   |              | 74 HC 595                         |              |          |              |              |                                      |              |
| IC....12 | 50.17.1541   |              | 74 HC 541                         |              |          |              |              |                                      |              |
| IC....13 | 50.16.0119   |              | HD 63 B 03 RP                     |              |          |              |              |                                      |              |
| IC....14 | 50.17.1645   |              | 74 HC 245/645                     |              |          |              |              |                                      |              |
| IC....15 | 50.17.1154   |              | 74 HC 154                         |              |          |              |              |                                      |              |
| IC....16 | 50.15.0120   |              | DS14C232 CN, MAX 232 CPE          |              |          |              |              |                                      |              |
| IC....17 | 50.11.0157   |              | TL 7705 BCP,                      |              |          |              |              |                                      |              |
| IC....18 | 50.14.2004   |              | HN 27 C 256 G-25(SW 1.328.796.20) |              |          |              |              |                                      |              |
| IC....19 | 50.14.0133   |              | HM 6264LP-15                      |              |          |              |              |                                      |              |
| IC....20 | 50.17.1573   |              | 74 HC 573                         |              |          |              |              |                                      |              |
| IC....21 | 50.17.1541   |              | 74 HC 541                         |              |          |              |              |                                      |              |
| IC....22 | 50.17.1540   |              | 74 HC 540                         |              |          |              |              |                                      |              |
| IC....23 | 50.18.0100   |              | 16 V 8 - 25 LP (SW 1.328.794.20)  |              |          |              |              |                                      |              |
| IC....24 | 50.18.0100   |              | 16 V 8 - 25 LP (SW 1.328.795.20)  |              |          |              |              |                                      |              |
| J.....1  | 54.01.0021   |              | JUMPER 2 * .63                    |              |          |              |              |                                      |              |
| J.....2  | 54.01.0021   |              | JUMPER 2 * .63                    |              |          |              |              |                                      |              |
| JP....1  | 54.01.0020   | **3pcs**     | PIN .63*.63, H=5.8/3.4            |              |          |              |              |                                      |              |
| JP....2  | 54.01.0020   | **3pcs**     | PIN .63*.63, H=5.8/3.4            |              |          |              |              |                                      |              |
| MP....1  | 1.328.733.01 |              | BOARD LABEL                       |              |          |              |              |                                      |              |
| MP....2  | 43.01.0108   |              | ESE LABEL                         |              |          |              |              |                                      |              |
| MP....3  | 1.101.001.20 |              | HARDWARE-20 LABEL                 |              |          |              |              |                                      |              |
| MP....4  | 1.328.733.11 |              | EMPTY PCB                         |              |          |              |              |                                      |              |
| MP....5  | 1.010.060.22 |              | RIVET NUT M 3 * 7                 |              |          |              |              |                                      |              |
| MP....6  | 1.010.060.22 |              | RIVET NUT M 3 * 7                 |              |          |              |              |                                      |              |
| MP....7  | 1.010.035.54 |              | SCREW LOCK                        |              |          |              |              |                                      |              |
| MP....8  | 1.010.035.54 |              | SCREW LOCK                        |              |          |              |              |                                      |              |
| P.....1  | 54.14.2003   |              | PLUG 26 P , AU, GERADE            |              |          |              |              |                                      |              |
| P.....2  | 54.14.2003   |              | PLUG 26 P , AU, GERADE            |              |          |              |              |                                      |              |
| P.....3  | 54.13.0026   | D-TYPE       | 9 POL.PRINT 5.4MM                 |              |          |              |              |                                      |              |
| P.....4  | 54.11.0125   | PIN          | ANGLE 1 PIN=1 UNIT                |              |          |              |              |                                      |              |
| P.....5  | 54.11.0125   | PIN          | ANGLE 1 PIN=1 UNIT                |              |          |              |              |                                      |              |
| P.....6  | 54.11.0125   | PIN          | ANGLE 1 PIN=1 UNIT                |              |          |              |              |                                      |              |
| R.....1  | 57.11.3101   | 100          | 1%, 0207 , MF                     |              |          |              |              |                                      |              |
| R.....2  | 57.11.3122   | 1.2 K        | 1%, 0207 , MF                     |              |          |              |              |                                      |              |
| R.....3  | 57.11.3122   | 1.2 K        | 1%, 0207 , MF                     |              |          |              |              |                                      |              |
| R.....4  | 57.11.3101   | 100          | 1%, 0207 , MF                     |              |          |              |              |                                      |              |
| R.....5  | 57.11.3122   | 1.2 K        | 1%, 0207 , MF                     |              |          |              |              |                                      |              |
| R.....6  | 57.11.3122   | 1.2 K        | 1%, 0207 , MF                     |              |          |              |              |                                      |              |
| R.....7  | 57.11.3101   | 100          | 1%, 0207 , MF                     |              |          |              |              |                                      |              |
| R.....8  | 57.11.3122   | 1.2 K        | 1%, 0207 , MF                     |              |          |              |              |                                      |              |
| R.....9  | 57.11.3122   | 1.2 K        | 1%, 0207 , MF                     |              |          |              |              |                                      |              |



SERBUS CONNECTION CABLE, 9PIN, 15m (for Remote Level Display) 1.862.422.00

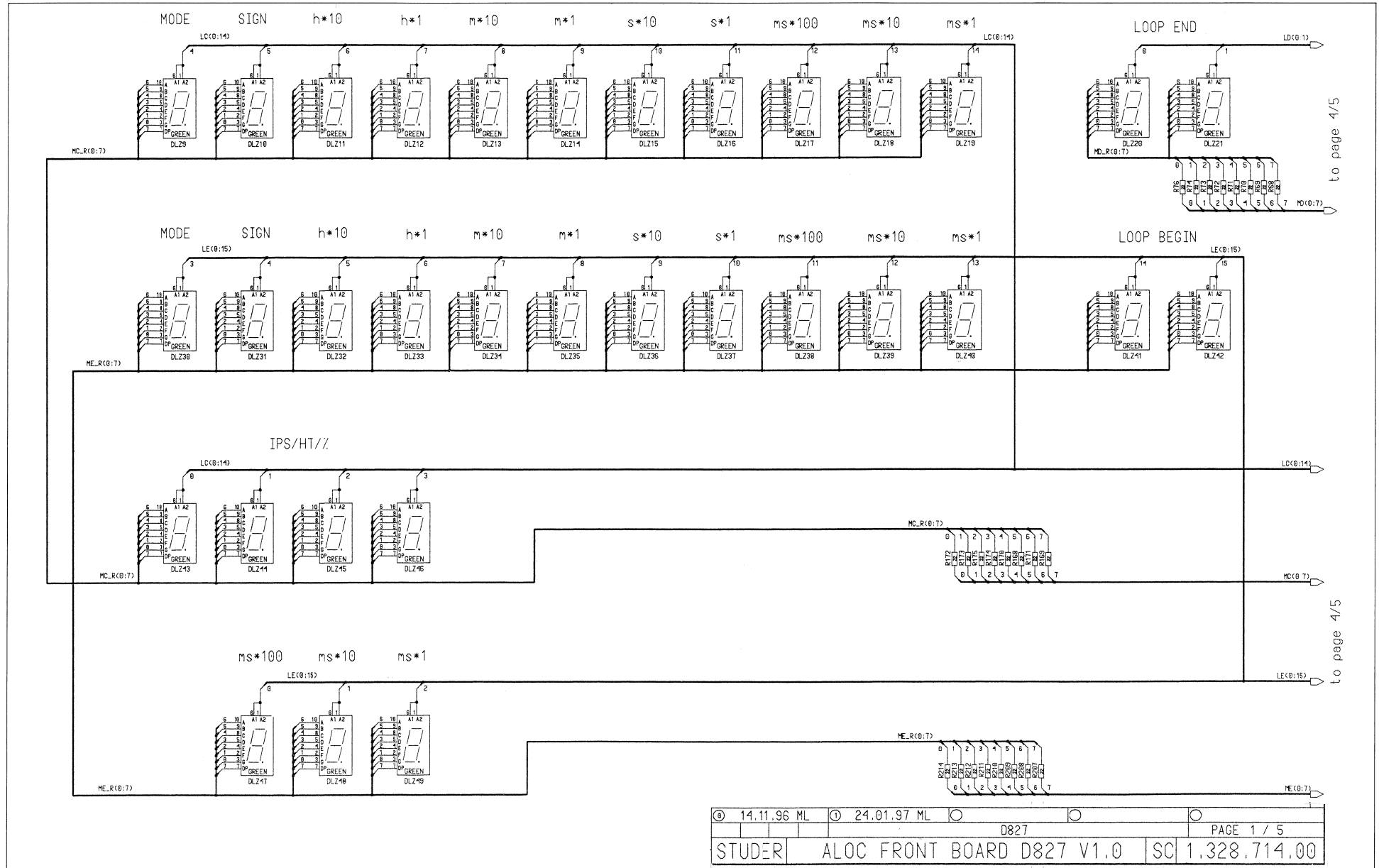


| Pin | Colour         | Contact pin | Signal        |
|-----|----------------|-------------|---------------|
| 1   | --             | no pin      | *KEY*         |
| 2   | gn             | 54.02.0451  | PI_ECLK       |
| 3   | gr             | 54.02.0451  | PI_EDAT       |
| 4   | bl             | 54.02.0451  | PI_ETPH       |
| 5   | sw/br/vi       | 54.02.0455  | OSTABIN (GND) |
| 6   | ge             | 54.02.0451  | PI_IECLK      |
| 7   | rs             | 54.02.0451  | PI_IEDAT      |
| 8   | rt             | 54.02.0451  | PI_IETPH      |
| 9   | ws/gr rs/rt bl | 54.02.0455  | STABIN. (60V) |

| Pin | Colour         | Contact pin | Signal        |
|-----|----------------|-------------|---------------|
| 1   | --             | no pin      | *KEY* ←       |
| 2   | gn             | 54.02.0450  | PI_ECLK       |
| 3   | gr             | 54.02.0450  | PI_EDAT       |
| 4   | bl             | 54.02.0450  | PI_ETPH       |
| 5   | sw/br/vi       | 54.02.0454  | OSTABIN (GND) |
| 6   | ge             | 54.02.0450  | PI_IECLK      |
| 7   | rs             | 54.02.0450  | PI_IEDAT      |
| 8   | rt             | 54.02.0450  | PI_IETPH      |
| 9   | ws/gr rs/rt bl | 54.02.0454  | STABIN. (60V) |

54.02.0452

AUTOLOCATOR MKII WITH SMEM 1.328.709.00  
 -ALOC Front Board 1.328.714.00

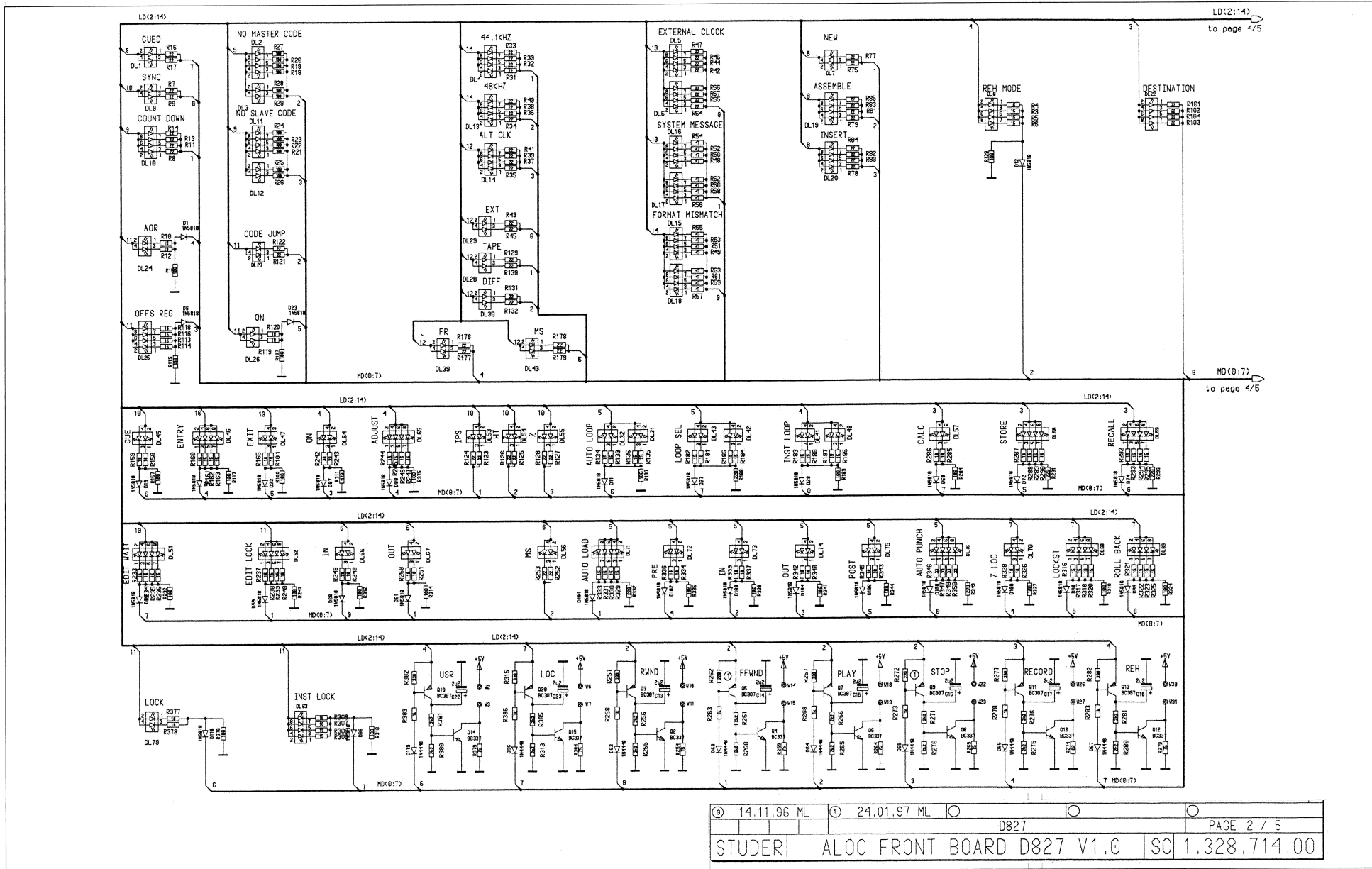


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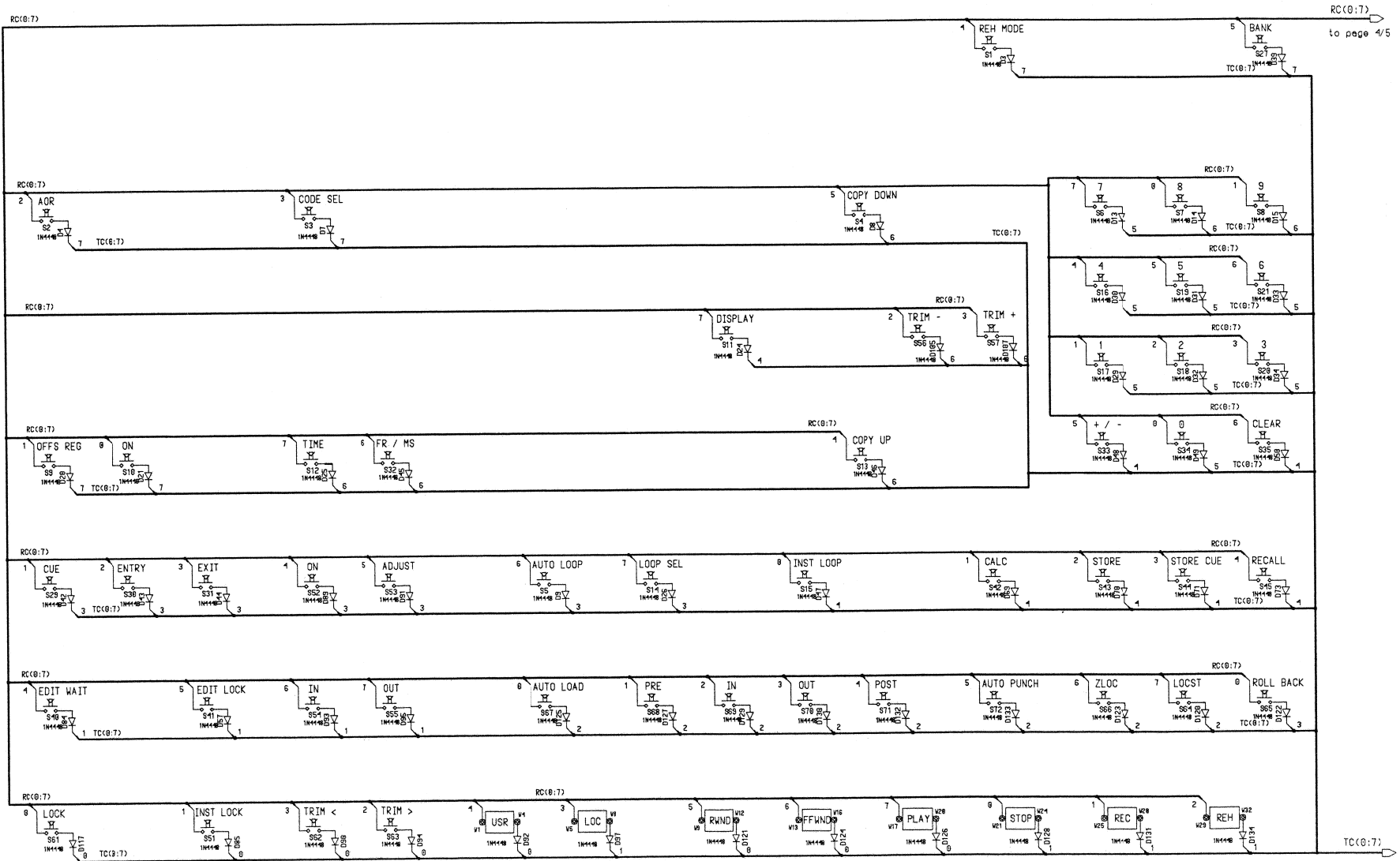
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| 14.11.96 ML | 24.01.97 ML                | D827 | PAGE 1 / 5      |
| STUDER      | ALOC FRONT BOARD D827 V1.0 |      | SC 1.328.714.00 |

AUTOLOCATOR MKII WITH SME1 1.328.709.00  
 -ALOC Front Board 1.328.714.00



STUDER D827 MCH MKII

AUTOLOCATOR MKII WITH SMEM 1.328.709.00  
 -ALOC Front Board 1.328.714.00



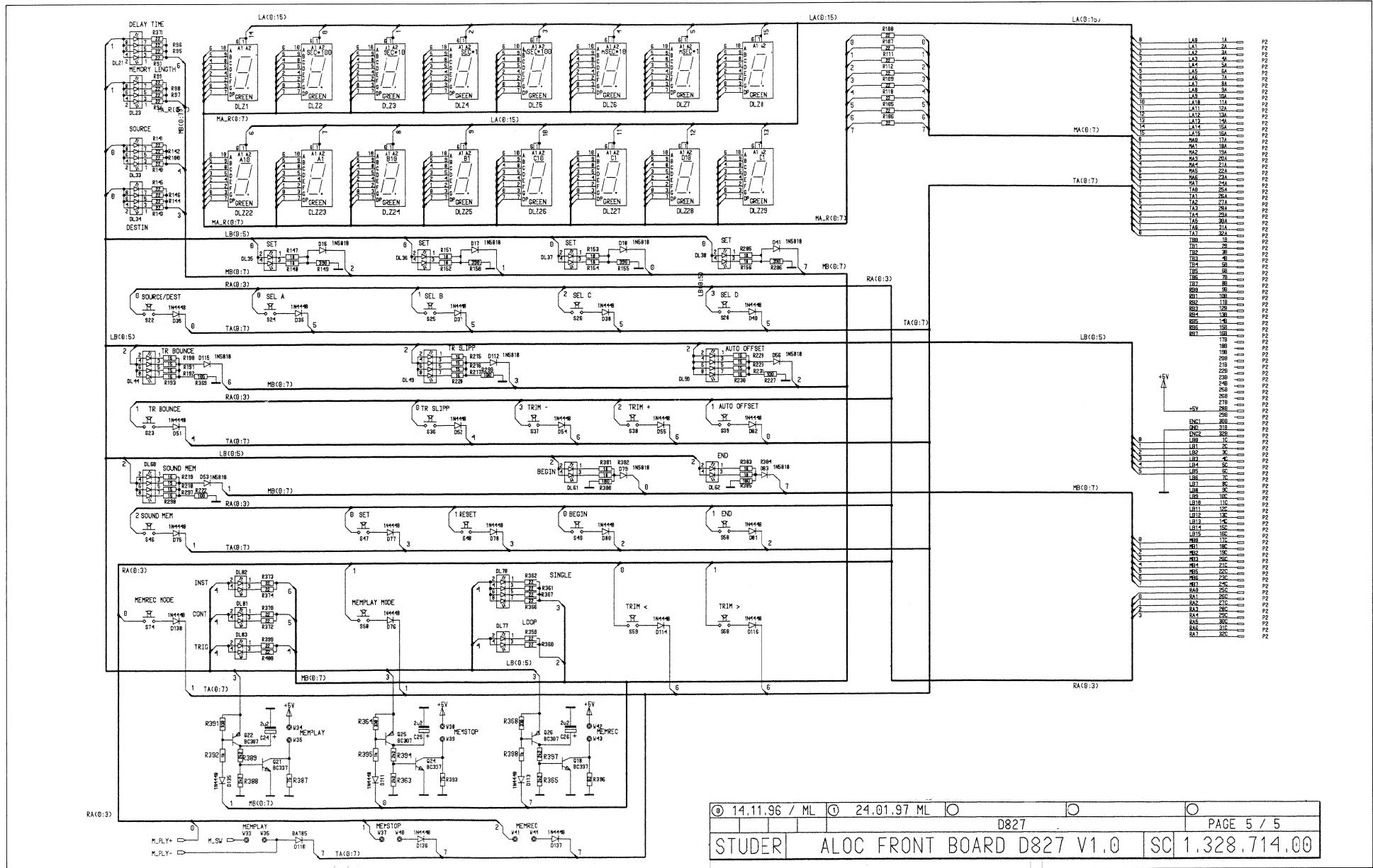
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|---------------|----------------------------|--|------------|--------------|
| © 14.11.96 ML | © 24.01.97 ML              |  |            |              |
| D827          |                            |  | PAGE 3 / 5 |              |
| STUDER        | ALOC FRONT BOARD D827 V1.0 |  | SC         | 1.328.714.00 |



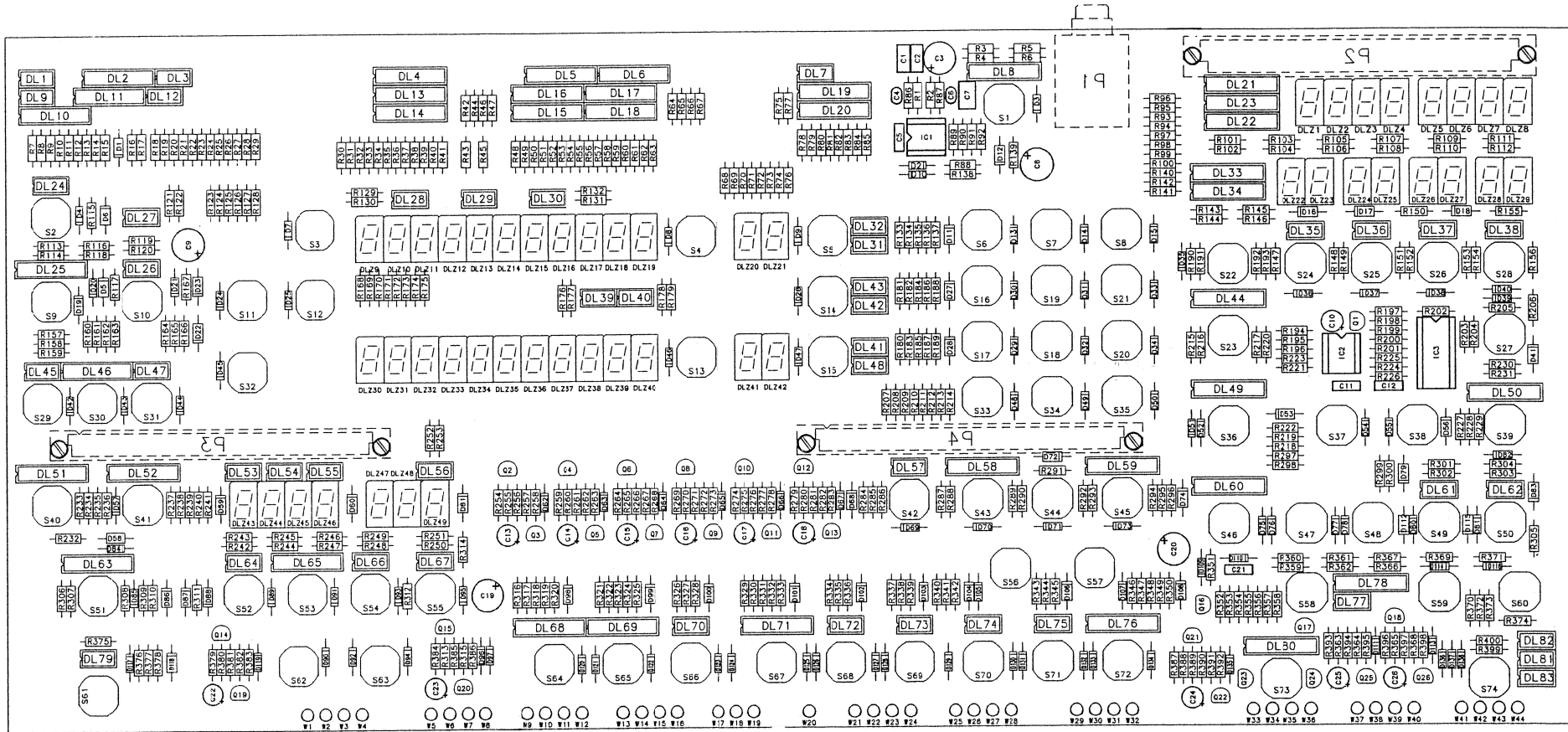
STUDER D827 MCH MKII



AUTOLOCATOR MKII WITH SMEM 1.328.709.00  
-ALOC Front Board 1.328.714.00



AUTOLOCATOR MKII WITH SMEM 1.328.709.00  
 -ALOC Front Board 1.328.714.00



MP 1

|               |          |    |  |  |
|---------------|----------|----|--|--|
| Work Function |          |    |  |  |
| Use Date      | 22.11.98 | EN |  |  |
| Date Issue    |          |    |  |  |
| Copy for      |          |    |  |  |
| Project       |          |    |  |  |

**AUTOLOCATOR MKII WITH SMEM 1.328.709.00**  
**-ALOC Front Board 1.328.714.00**



| Idx. | Pos. | Part No.   | Qty. | Type/Val. | Description            | Idx. | Pos.  | Part No.   | Qty. | Type/Val. | Description            |
|------|------|------------|------|-----------|------------------------|------|-------|------------|------|-----------|------------------------|
| 0    | C 1  | 59.06.0224 |      | 220n      | PETP, 63V, 10%, RM5    | 0    | D 61  | 50.04.0512 |      | 1N5818    | D 1N 5818, 1N 5819,    |
| 0    | C 2  | 59.06.0224 |      | 220n      | PETP, 63V, 10%, RM5    | 0    | D 62  | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | C 3  | 59.22.3221 |      | 220u      | EL 10V, 20%, RM5       | 0    | D 63  | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | C 4  | 59.34.2270 |      | 27p       | CER 63V, 5%, N150      | 0    | D 64  | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | C 5  | 59.06.0104 |      | 100n      | PETP, 63V, 10%, RM5    | 0    | D 65  | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | C 6  | 59.34.2270 |      | 27p       | CER 63V, 5%, N150      | 0    | D 66  | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | C 7  | 59.06.0474 |      | 470n      | PETP, 63V, 10%, RM5    | 0    | D 67  | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | C 8  | 59.22.3221 |      | 220u      | EL 10V, 20%, RM5       | 0    | D 68  | 50.04.0512 |      | 1N5818    | D 1N 5818, 1N 5819,    |
| 0    | C 9  | 59.22.3221 |      | 220u      | EL 10V, 20%, RM5       | 0    | D 69  | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | C 10 | 59.30.3479 |      | 4u7       | TA, 20%, 10V           | 0    | D 70  | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | C 11 | 59.06.0104 |      | 100n      | PETP, 63V, 10%, RM5    | 0    | D 71  | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | C 12 | 59.06.0104 |      | 100n      | PETP, 63V, 10%, RM5    | 0    | D 72  | 50.04.0512 |      | 1N5818    | D 1N 5818, 1N 5819,    |
| 0    | C 13 | 59.30.4229 |      | 2u2       | TA, 20%, 16V           | 0    | D 73  | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | C 14 | 59.30.4229 |      | 2u2       | TA, 20%, 16V           | 0    | D 74  | 50.04.0512 |      | 1N5818    | D 1N 5818, 1N 5819,    |
| 0    | C 15 | 59.30.4229 |      | 2u2       | TA, 20%, 16V           | 0    | D 75  | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | C 16 | 59.30.4229 |      | 2u2       | TA, 20%, 16V           | 0    | D 76  | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | C 17 | 59.30.4229 |      | 2u2       | TA, 20%, 16V           | 0    | D 77  | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | C 18 | 59.30.4229 |      | 2u2       | TA, 20%, 16V           | 0    | D 78  | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | C 19 | 59.22.3221 |      | 220u      | EL 10V, 20%, RM5       | 0    | D 79  | 50.04.0512 |      | 1N5818    | D 1N 5818, 1N 5819,    |
| 0    | C 20 | 59.22.3221 |      | 220u      | EL 10V, 20%, RM5       | 0    | D 80  | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | C 21 | 59.06.0104 |      | 100n      | PETP, 63V, 10%, RM5    | 0    | D 81  | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | C 22 | 59.30.4229 |      | 2u2       | TA, 20%, 16V           | 0    | D 82  | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | C 23 | 59.30.4229 |      | 2u2       | TA, 20%, 16V           | 0    | D 83  | 50.04.0512 |      | 1N5818    | D 1N 5818, 1N 5819,    |
| 0    | C 24 | 59.30.4229 |      | 2u2       | TA, 20%, 16V           | 0    | D 84  | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | C 25 | 59.30.4229 |      | 2u2       | TA, 20%, 16V           | 0    | D 85  | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | C 26 | 59.30.4229 |      | 2u2       | TA, 20%, 16V           | 0    | D 86  | 50.04.0512 |      | 1N5818    | D 1N 5818, 1N 5819,    |
| 0    | D 1  | 50.04.0512 |      | 1N5818    | D 1N 5818, 1N 5819,    | 0    | D 87  | 50.04.0512 |      | 1N5818    | D 1N 5818, 1N 5819,    |
| 0    | D 2  | 50.04.0127 |      | BAT85     | 200mA, Schottky        | 0    | D 88  | 50.04.0512 |      | 1N5818    | D 1N 5818, 1N 5819,    |
| 0    | D 3  | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 | 0    | D 89  | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | D 4  | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 | 0    | D 90  | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | D 5  | 50.04.0512 |      | 1N5818    | D 1N 5818, 1N 5819,    | 0    | D 91  | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | D 6  | 50.04.0512 |      | 1N5818    | D 1N 5818, 1N 5819,    | 0    | D 92  | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | D 7  | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 | 0    | D 93  | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | D 8  | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 | 0    | D 94  | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | D 9  | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 | 0    | D 95  | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | D 10 | 50.04.0127 |      | BAT85     | 200mA, Schottky        | 0    | D 96  | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | D 11 | 50.04.0512 |      | 1N5818    | D 1N 5818, 1N 5819,    | 0    | D 97  | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | D 12 | 50.04.0512 |      | 1N5818    | D 1N 5818, 1N 5819,    | 0    | D 98  | 50.04.0512 |      | 1N5818    | D 1N 5818, 1N 5819,    |
| 0    | D 13 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 | 0    | D 99  | 50.04.0512 |      | 1N5818    | D 1N 5818, 1N 5819,    |
| 0    | D 14 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 | 0    | D 100 | 50.04.0512 |      | 1N5818    | D 1N 5818, 1N 5819,    |
| 0    | D 15 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 | 0    | D 101 | 50.04.0512 |      | 1N5818    | D 1N 5818, 1N 5819,    |
| 0    | D 16 | 50.04.0512 |      | 1N5818    | D 1N 5818, 1N 5819,    | 0    | D 102 | 50.04.0512 |      | 1N5818    | D 1N 5818, 1N 5819,    |
| 0    | D 17 | 50.04.0512 |      | 1N5818    | D 1N 5818, 1N 5819,    | 0    | D 103 | 50.04.0512 |      | 1N5818    | D 1N 5818, 1N 5819,    |
| 0    | D 18 | 50.04.0512 |      | 1N5818    | D 1N 5818, 1N 5819,    | 0    | D 104 | 50.04.0512 |      | 1N5818    | D 1N 5818, 1N 5819,    |
| 0    | D 19 | 50.04.0512 |      | 1N5818    | D 1N 5818, 1N 5819,    | 0    | D 105 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | D 20 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 | 0    | D 106 | 50.04.0512 |      | 1N5818    | D 1N 5818, 1N 5819,    |
| 0    | D 21 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 | 0    | D 107 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | D 22 | 50.04.0512 |      | 1N5818    | D 1N 5818, 1N 5819,    | 0    | D 108 | 50.04.0512 |      | 1N5818    | D 1N 5818, 1N 5819,    |
| 0    | D 23 | 50.04.0512 |      | 1N5818    | D 1N 5818, 1N 5819,    | 0    | D 109 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | D 24 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 | 0    | D 110 | 50.04.0127 |      | BAT85     | 200mA, Schottky        |
| 0    | D 25 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 | 0    | D 111 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | D 26 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 | 0    | D 112 | 50.04.0512 |      | 1N5818    | D 1N 5818, 1N 5819,    |
| 0    | D 27 | 50.04.0512 |      | 1N5818    | D 1N 5818, 1N 5819,    | 0    | D 113 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | D 28 | 50.04.0512 |      | 1N5818    | D 1N 5818, 1N 5819,    | 0    | D 114 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | D 29 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 | 0    | D 115 | 50.04.0512 |      | 1N5818    | D 1N 5818, 1N 5819,    |
| 0    | D 30 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 | 0    | D 116 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | D 31 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 | 0    | D 117 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | D 32 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 | 0    | D 118 | 50.04.0512 |      | 1N5818    | D 1N 5818, 1N 5819,    |
| 0    | D 33 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 | 0    | D 119 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | D 34 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 | 0    | D 120 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | D 35 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 | 0    | D 121 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | D 36 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 | 0    | D 122 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | D 37 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 | 0    | D 123 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | D 38 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 | 0    | D 124 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | D 39 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 | 0    | D 125 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | D 40 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 | 0    | D 126 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | D 41 | 50.04.0512 |      | 1N5818    | D 1N 5818, 1N 5819,    | 0    | D 127 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | D 42 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 | 0    | D 128 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | D 43 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 | 0    | D 129 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | D 44 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 | 0    | D 130 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | D 45 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 | 0    | D 131 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | D 46 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 | 0    | D 132 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | D 47 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 | 0    | D 133 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | D 48 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 | 0    | D 134 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | D 49 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 | 0    | D 135 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | D 50 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 | 0    | D 136 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | D 51 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 | 0    | D 137 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | D 52 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 | 0    | D 138 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 |
| 0    | D 53 | 50.04.0512 |      | 1N5818    | D 1N 5818, 1N 5819,    | 0    | DL 1  | 50.04.2803 |      | 2*grn     | 2*LED Bar grün         |
| 0    | D 54 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 | 0    | DL 2  | 50.04.2153 |      | 4*red     | 4*LED Bargraph, red    |
| 0    | D 55 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 | 0    | DL 3  | 50.04.2805 |      | 2*red     | 2*LED Bar rot          |
| 0    | D 56 | 50.04.0512 |      | 1N5818    | D 1N 5818, 1N 5819,    | 0    | DL 4  | 50.04.2801 |      | 4*yel     | 4*LED Bar gelb         |
| 0    | D 57 | 50.04.0125 |      | 1N4448    | 75V, 150mA, 4ns, DO-35 | 0    | DL 5  | 50.04.2801 |      | 4*yel     | 4*LED Bar gelb         |
| 0    | D 58 | 50.04.0512 |      | 1N5818    | D 1N 5818, 1N 5819,    | 0    | DL 6  | 50.04.2801 |      | 4*yel     | 4*LED Bar gelb         |
| 0    | D 59 | 50.04.0512 |      | 1N5818    | D 1N 5818, 1N 5819,    | 0    | DL 7  | 50.04.2804 |      | 2*yel     | 2*LED Bar gelb         |
| 0    | D 60 | 50.04.0512 |      | 1N5818    | D 1N 5818, 1N 5819,    | 0    | DL 8  | 50.04.2801 |      | 4*yel     | 4*LED Bar gelb         |



AUTOLOCATOR MKII WITH SMEM 1.328.709.00  
 -ALOC Front Board 1.328.714.00



| Idx. | Pos.   | Part No.   | Qty. | Type/Val. | Description                  | Idx. | Pos.   | Part No.          | Qty.     | Type/Val.                   | Description                  |
|------|--------|------------|------|-----------|------------------------------|------|--------|-------------------|----------|-----------------------------|------------------------------|
| 0    | DL 9   | 50.04.2803 | 2    | grn       | 2*LED Bar grün               | 0    | DLZ 13 | 73.01.0134        | 7        | SEG                         | 7-SEGM.ANZEIGE LED GN 7.6 MM |
| 0    | DL 10  | 50.04.2801 | 4    | yel       | 4*LED Bar gelb               | 0    | DLZ 14 | 73.01.0134        | 7        | SEG                         | 7-SEGM.ANZEIGE LED GN 7.6 MM |
| 0    | DL 11  | 50.04.2153 | 4    | red       | 4*LED Bargraph, red          | 0    | DLZ 15 | 73.01.0134        | 7        | SEG                         | 7-SEGM.ANZEIGE LED GN 7.6 MM |
| 0    | DL 12  | 50.04.2805 | 2    | red       | 2*LED Bar rot                | 0    | DLZ 16 | 73.01.0134        | 7        | SEG                         | 7-SEGM.ANZEIGE LED GN 7.6 MM |
| 0    | DL 13  | 50.04.2801 | 4    | yel       | 4*LED Bar gelb               | 0    | DLZ 17 | 73.01.0134        | 7        | SEG                         | 7-SEGM.ANZEIGE LED GN 7.6 MM |
| 0    | DL 14  | 50.04.2801 | 4    | yel       | 4*LED Bar gelb               | 0    | DLZ 18 | 73.01.0134        | 7        | SEG                         | 7-SEGM.ANZEIGE LED GN 7.6 MM |
| 0    | DL 15  | 50.04.2153 | 4    | red       | 4*LED Bargraph, red          | 0    | DLZ 19 | 73.01.0134        | 7        | SEG                         | 7-SEGM.ANZEIGE LED GN 7.6 MM |
| 0    | DL 16  | 50.04.2153 | 4    | red       | 4*LED Bargraph, red          | 0    | DLZ 20 | 73.01.0134        | 7        | SEG                         | 7-SEGM.ANZEIGE LED GN 7.6 MM |
| 0    | DL 17  | 50.04.2153 | 4    | red       | 4*LED Bargraph, red          | 0    | DLZ 21 | 73.01.0134        | 7        | SEG                         | 7-SEGM.ANZEIGE LED GN 7.6 MM |
| 0    | DL 18  | 50.04.2153 | 4    | red       | 4*LED Bargraph, red          | 0    | DLZ 22 | 73.01.0134        | 7        | SEG                         | 7-SEGM.ANZEIGE LED GN 7.6 MM |
| 0    | DL 19  | 50.04.2801 | 4    | yel       | 4*LED Bar gelb               | 0    | DLZ 23 | 73.01.0134        | 7        | SEG                         | 7-SEGM.ANZEIGE LED GN 7.6 MM |
| 0    | DL 20  | 50.04.2801 | 4    | yel       | 4*LED Bar gelb               | 0    | DLZ 24 | 73.01.0134        | 7        | SEG                         | 7-SEGM.ANZEIGE LED GN 7.6 MM |
| 0    | DL 21  | 50.04.2801 | 4    | yel       | 4*LED Bar gelb               | 0    | DLZ 25 | 73.01.0134        | 7        | SEG                         | 7-SEGM.ANZEIGE LED GN 7.6 MM |
| 0    | DL 22  | 50.04.2801 | 4    | yel       | 4*LED Bar gelb               | 0    | DLZ 26 | 73.01.0134        | 7        | SEG                         | 7-SEGM.ANZEIGE LED GN 7.6 MM |
| 0    | DL 23  | 50.04.2801 | 4    | yel       | 4*LED Bar gelb               | 0    | DLZ 27 | 73.01.0134        | 7        | SEG                         | 7-SEGM.ANZEIGE LED GN 7.6 MM |
| 0    | DL 24  | 50.04.2804 | 2    | yel       | 2*LED Bar gelb               | 0    | DLZ 28 | 73.01.0134        | 7        | SEG                         | 7-SEGM.ANZEIGE LED GN 7.6 MM |
| 0    | DL 25  | 50.04.2801 | 4    | yel       | 4*LED Bar gelb               | 0    | DLZ 29 | 73.01.0134        | 7        | SEG                         | 7-SEGM.ANZEIGE LED GN 7.6 MM |
| 0    | DL 26  | 50.04.2804 | 2    | yel       | 2*LED Bar gelb               | 0    | DLZ 30 | 73.01.0134        | 7        | SEG                         | 7-SEGM.ANZEIGE LED GN 7.6 MM |
| 0    | DL 27  | 50.04.2805 | 2    | red       | 2*LED Bar rot                | 0    | DLZ 31 | 73.01.0134        | 7        | SEG                         | 7-SEGM.ANZEIGE LED GN 7.6 MM |
| 0    | DL 28  | 50.04.2804 | 2    | yel       | 2*LED Bar gelb               | 0    | DLZ 32 | 73.01.0134        | 7        | SEG                         | 7-SEGM.ANZEIGE LED GN 7.6 MM |
| 0    | DL 29  | 50.04.2804 | 2    | yel       | 2*LED Bar gelb               | 0    | DLZ 33 | 73.01.0134        | 7        | SEG                         | 7-SEGM.ANZEIGE LED GN 7.6 MM |
| 0    | DL 30  | 50.04.2804 | 2    | yel       | 2*LED Bar gelb               | 0    | DLZ 34 | 73.01.0134        | 7        | SEG                         | 7-SEGM.ANZEIGE LED GN 7.6 MM |
| 0    | DL 31  | 50.04.2804 | 2    | yel       | 2*LED Bar gelb               | 0    | DLZ 35 | 73.01.0134        | 7        | SEG                         | 7-SEGM.ANZEIGE LED GN 7.6 MM |
| 0    | DL 32  | 50.04.2804 | 2    | yel       | 2*LED Bar gelb               | 0    | DLZ 36 | 73.01.0134        | 7        | SEG                         | 7-SEGM.ANZEIGE LED GN 7.6 MM |
| 0    | DL 33  | 50.04.2801 | 4    | yel       | 4*LED Bar gelb               | 0    | DLZ 37 | 73.01.0134        | 7        | SEG                         | 7-SEGM.ANZEIGE LED GN 7.6 MM |
| 0    | DL 34  | 50.04.2801 | 4    | yel       | 4*LED Bar gelb               | 0    | DLZ 38 | 73.01.0134        | 7        | SEG                         | 7-SEGM.ANZEIGE LED GN 7.6 MM |
| 0    | DL 35  | 50.04.2803 | 2    | grn       | 2*LED Bar grün               | 0    | DLZ 39 | 73.01.0134        | 7        | SEG                         | 7-SEGM.ANZEIGE LED GN 7.6 MM |
| 0    | DL 36  | 50.04.2803 | 2    | grn       | 2*LED Bar grün               | 0    | DLZ 40 | 73.01.0134        | 7        | SEG                         | 7-SEGM.ANZEIGE LED GN 7.6 MM |
| 0    | DL 37  | 50.04.2803 | 2    | grn       | 2*LED Bar grün               | 0    | DLZ 41 | 73.01.0134        | 7        | SEG                         | 7-SEGM.ANZEIGE LED GN 7.6 MM |
| 0    | DL 38  | 50.04.2803 | 2    | grn       | 2*LED Bar grün               | 0    | DLZ 42 | 73.01.0134        | 7        | SEG                         | 7-SEGM.ANZEIGE LED GN 7.6 MM |
| 0    | DL 39  | 50.04.2804 | 2    | yel       | 2*LED Bar gelb               | 0    | DLZ 43 | 73.01.0134        | 7        | SEG                         | 7-SEGM.ANZEIGE LED GN 7.6 MM |
| 0    | DL 40  | 50.04.2804 | 2    | yel       | 2*LED Bar gelb               | 0    | DLZ 44 | 73.01.0134        | 7        | SEG                         | 7-SEGM.ANZEIGE LED GN 7.6 MM |
| 0    | DL 41  | 50.04.2804 | 2    | yel       | 2*LED Bar gelb               | 0    | DLZ 45 | 73.01.0134        | 7        | SEG                         | 7-SEGM.ANZEIGE LED GN 7.6 MM |
| 0    | DL 42  | 50.04.2803 | 2    | grn       | 2*LED Bar grün               | 0    | DLZ 46 | 73.01.0134        | 7        | SEG                         | 7-SEGM.ANZEIGE LED GN 7.6 MM |
| 0    | DL 43  | 50.04.2803 | 2    | grn       | 2*LED Bar grün               | 0    | DLZ 47 | 73.01.0134        | 7        | SEG                         | 7-SEGM.ANZEIGE LED GN 7.6 MM |
| 0    | DL 44  | 50.04.2801 | 4    | yel       | 4*LED Bar gelb               | 0    | DLZ 48 | 73.01.0134        | 7        | SEG                         | 7-SEGM.ANZEIGE LED GN 7.6 MM |
| 0    | DL 45  | 50.04.2804 | 2    | yel       | 2*LED Bar gelb               | 0    | DLZ 49 | 73.01.0134        | 7        | SEG                         | 7-SEGM.ANZEIGE LED GN 7.6 MM |
| 0    | DL 46  | 50.04.2801 | 4    | yel       | 4*LED Bar gelb               |      |        |                   |          |                             |                              |
| 0    | DL 47  | 50.04.2804 | 2    | yel       | 2*LED Bar gelb               | 0    | IC 1   | 50.09.0122        | TLC272   | IC TLC 272 GP, TS 272 CN    | ,A                           |
| 0    | DL 48  | 50.04.2804 | 2    | yel       | 2*LED Bar gelb               | 0    | IC 2   | 50.05.0283        | LM393    | Dual Comparator             |                              |
| 0    | DL 49  | 50.04.2801 | 4    | yel       | 4*LED Bar gelb               | 0    | IC 3   | 50.17.1074        | 74HC74   | IC ... 74 HC 74 ..          | ,A                           |
| 0    | DL 50  | 50.04.2801 | 4    | yel       | 4*LED Bar gelb               |      |        |                   |          |                             |                              |
| 0    | DL 51  | 50.04.2801 | 4    | yel       | 4*LED Bar gelb               | 0    | MP 1   | 1.328.714.11      |          | ALOC FRONT BOARD MK II PCB  |                              |
| 0    | DL 52  | 50.04.2801 | 4    | yel       | 4*LED Bar gelb               | 0    | MP 2   | 53.03.0220 484 pc | 1p       | XIC SINGLE, IN-LINE         |                              |
| 0    | DL 53  | 50.04.2804 | 2    | yel       | 2*LED Bar gelb               | 0    | MP 3   | 53.03.0227 490 pc |          | XIC SINGLE LINE, 50 POL.    |                              |
| 0    | DL 54  | 50.04.2804 | 2    | yel       | 2*LED Bar gelb               | 0    | MP 4   | 1.328.714.01      |          | NR.-ETIKETTE 5 * 20         |                              |
| 0    | DL 55  | 50.04.2804 | 2    | yel       | 2*LED Bar gelb               | 0    | MP 5   | 43.01.0108        | Label    | ESE-WARNSCHILD              |                              |
| 0    | DL 56  | 50.04.2804 | 2    | yel       | 2*LED Bar gelb               | 0    | MP 6   | 1010.008 27 6 pcs |          | DISTANZHUELSE D 3/2/5 * 8   |                              |
| 0    | DL 57  | 50.04.2804 | 2    | yel       | 2*LED Bar gelb               | 0    | MP 7   | 21.26.0284 6 pcs  |          | Z - SCHR. KS. ZN, M2.5 * 16 |                              |
| 0    | DL 58  | 50.04.2802 | 4    | grn       | 4*LED Bar grün               | 0    | MP 8   | 24.16.1025 6 pcs  |          | RIPPENSCHLEIBE D 2/7/5      |                              |
| 0    | DL 59  | 50.04.2802 | 4    | grn       | 4*LED Bar grün               | 0    | MP 9   | 22.01.8025 6 pcs  |          | 6KT-MUTTER 0.8 D , M 2.5    |                              |
| 0    | DL 60  | 50.04.2801 | 4    | yel       | 4*LED Bar gelb               |      |        |                   |          |                             |                              |
| 0    | DL 61  | 50.04.2804 | 2    | yel       | 2*LED Bar gelb               | 0    | P 1    | 54.24.0123        |          | J JACK-SOCKET, 6.3MM, PCB   |                              |
| 0    | DL 62  | 50.04.2804 | 2    | yel       | 2*LED Bar gelb               | 0    | P 2    | 54.11.2803        | 96p      | EU-R 3*32p, Pin-L=13        |                              |
| 0    | DL 63  | 50.04.2801 | 4    | yel       | 4*LED Bar gelb               | 0    | P 3    | 54.11.2503        | 64p      | EU-Q 2*32p, Pin-L=13        |                              |
| 0    | DL 64  | 50.04.2805 | 2    | red       | 2*LED Bar rot                | 0    | P 4    | 54.11.2503        | 64p      | EU-Q 2*32p, Pin-L=13        |                              |
| 0    | DL 65  | 50.04.2801 | 4    | yel       | 4*LED Bar gelb               |      |        |                   |          |                             |                              |
| 0    | DL 66  | 50.04.2804 | 2    | yel       | 2*LED Bar gelb               | 0    | Q 1    | 50.03.0340        | BC337-25 | 800mA, 45V, NPN             |                              |
| 0    | DL 67  | 50.04.2804 | 2    | yel       | 2*LED Bar gelb               | 0    | Q 2    | 50.03.0340        | BC337-25 | 800mA, 45V, NPN             |                              |
| 0    | DL 68  | 50.04.2801 | 4    | yel       | 4*LED Bar gelb               | 0    | Q 3    | 50.03.0515        | BC307B   | BC 307 B , BC 557 B ,P,NP   |                              |
| 0    | DL 69  | 50.04.2801 | 4    | yel       | 4*LED Bar gelb               | 0    | Q 4    | 50.03.0340        | BC337-25 | 800mA, 45V, NPN             |                              |
| 0    | DL 70  | 50.04.2804 | 2    | yel       | 2*LED Bar gelb               | 0    | Q 5    | 50.03.0515        | BC307B   | BC 307 B , BC 557 B ,P,NP   |                              |
| 0    | DL 71  | 50.04.2802 | 4    | grn       | 4*LED Bar grün               | 0    | Q 6    | 50.03.0340        | BC337-25 | 800mA, 45V, NPN             |                              |
| 0    | DL 72  | 50.04.2804 | 2    | yel       | 2*LED Bar gelb               | 0    | Q 7    | 50.03.0515        | BC307B   | BC 307 B , BC 557 B ,P,NP   |                              |
| 0    | DL 73  | 50.04.2804 | 2    | yel       | 2*LED Bar gelb               | 0    | Q 8    | 50.03.0340        | BC337-25 | 800mA, 45V, NPN             |                              |
| 0    | DL 74  | 50.04.2804 | 2    | yel       | 2*LED Bar gelb               | 0    | Q 9    | 50.03.0515        | BC307B   | BC 307 B , BC 557 B ,P,NP   |                              |
| 0    | DL 75  | 50.04.2804 | 2    | yel       | 2*LED Bar gelb               | 0    | Q 10   | 50.03.0340        | BC337-25 | 800mA, 45V, NPN             |                              |
| 0    | DL 76  | 50.04.2153 | 4    | red       | 4*LED Bargraph, red          | 0    | Q 11   | 50.03.0515        | BC307B   | BC 307 B , BC 557 B ,P,NP   |                              |
| 0    | DL 77  | 50.04.2804 | 2    | yel       | 2*LED Bar gelb               | 0    | Q 12   | 50.03.0340        | BC337-25 | 800mA, 45V, NPN             |                              |
| 0    | DL 78  | 50.04.2801 | 4    | yel       | 4*LED Bar gelb               | 0    | Q 13   | 50.03.0515        | BC307B   | BC 307 B , BC 557 B ,P,NP   |                              |
| 0    | DL 79  | 50.04.2804 | 2    | yel       | 2*LED Bar gelb               | 0    | Q 14   | 50.03.0340        | BC337-25 | 800mA, 45V, NPN             |                              |
| 0    | DL 80  | 50.04.2801 | 4    | yel       | 4*LED Bar gelb               | 0    | Q 15   | 50.03.0340        | BC337-25 | 800mA, 45V, NPN             |                              |
| 0    | DL 81  | 50.04.2804 | 2    | yel       | 2*LED Bar gelb               | 0    | Q 16   | 50.03.0340        | BC337-25 | 800mA, 45V, NPN             |                              |
| 0    | DL 82  | 50.04.2804 | 2    | yel       | 2*LED Bar gelb               | 0    | Q 17   | 50.03.0340        | BC337-25 | 800mA, 45V, NPN             |                              |
| 0    | DL 83  | 50.04.2804 | 2    | yel       | 2*LED Bar gelb               | 0    | Q 18   | 50.03.0340        | BC337-25 | 800mA, 45V, NPN             |                              |
| 0    | DLZ 1  | 73.01.0134 | 7    | SEG       | 7-SEGM.ANZEIGE LED GN 7.6 MM | 0    | Q 19   | 50.03.0515        | BC307B   | BC 307 B , BC 557 B ,P,NP   |                              |
| 0    | DLZ 2  | 73.01.0134 | 7    | SEG       | 7-SEGM.ANZEIGE LED GN 7.6 MM | 0    | Q 20   | 50.03.0515        | BC307B   | BC 307 B , BC 557 B ,P,NP   |                              |
| 0    | DLZ 3  | 73.01.0134 | 7    | SEG       | 7-SEGM.ANZEIGE LED GN 7.6 MM | 0    | Q 21   | 50.03.0340        | BC337-25 | 800mA, 45V, NPN             |                              |
| 0    | DLZ 4  | 73.01.0134 | 7    | SEG       | 7-SEGM.ANZEIGE LED GN 7.6 MM | 0    | Q 22   | 50.03.0515        | BC307B   | BC 307 B , BC 557 B ,P,NP   |                              |
| 0    | DLZ 5  | 73.01.0134 | 7    | SEG       | 7-SEGM.ANZEIGE LED GN 7.6 MM | 0    | Q 23   | 50.03.0340        | BC337-25 | 800mA, 45V, NPN             |                              |
| 0    | DLZ 6  | 73.01.0134 | 7    | SEG       | 7-SEGM.ANZEIGE LED GN 7.6 MM | 0    | Q 24   | 50.03.0340        | BC337-25 | 800mA, 45V, NPN             |                              |
| 0    | DLZ 7  | 73.01.0134 | 7    | SEG       | 7-SEGM.ANZEIGE LED GN 7.6 MM | 0    | Q 25   | 50.03.0515        | BC307B   | BC 307 B , BC 557 B ,P,NP   |                              |
| 0    | DLZ 8  | 73.01.0134 | 7    | SEG       | 7-SEGM.ANZEIGE LED GN 7.6 MM | 0    | Q 26   | 50.03.0515        | BC307B   | BC 307 B , BC 557 B ,P,NP   |                              |
| 0    | DLZ 9  | 73.01.0134 | 7    | SEG       | 7-SEGM.ANZEIGE LED GN 7.6 MM |      |        |                   |          |                             |                              |
| 0    | DLZ 10 | 73.01.0134 | 7    | SEG       | 7-SEGM.ANZEIGE LED GN 7.6 MM | 0    | R 1    | 57.11.3562        | 5k6      | MF, 1%, 0207                |                              |
| 0    | DLZ 11 | 73.01.0134 | 7    | SEG       | 7-SEGM.ANZEIGE LED GN 7.6 MM | 0    | R 2    | 57.11.3562        | 5k6      | MF, 1%, 0207                |                              |
| 0    | DLZ 12 | 73.01.0134 | 7    | SEG       | 7-SEGM.ANZEIGE LED GN 7.6 MM |      |        |                   |          |                             |                              |



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 -ALOC Front Board 1.328.714.00



| Idx. | Pos.  | Part No.   | Qty. | Type/Val. | Description  | Idx. | Pos.  | Part No.   | Qty. | Type/Val. | Description  |
|------|-------|------------|------|-----------|--------------|------|-------|------------|------|-----------|--------------|
| 0    | R 177 | 57.11.3220 |      | 22R       | MF, 1%, 0207 | 0    | R 263 | 57.11.3102 |      | 1k0       | MF, 1%, 0207 |
| 0    | R 178 | 57.11.3220 |      | 22R       | MF, 1%, 0207 | 0    | R 264 | 57.11.3750 |      | 75R       | MF, 1%, 0207 |
| 0    | R 179 | 57.11.3220 |      | 22R       | MF, 1%, 0207 | 0    | R 265 | 57.11.3222 |      | 2k2       | MF, 1%, 0207 |
| 0    | R 180 | 57.11.3150 |      | 15R       | MF, 1%, 0207 | 0    | R 266 | 57.11.3222 |      | 2k2       | MF, 1%, 0207 |
| 0    | R 181 | 57.11.3150 |      | 15R       | MF, 1%, 0207 | 0    | R 267 | 57.11.3331 |      | 330R      | MF, 1%, 0207 |
| 0    | R 182 | 57.11.3150 |      | 15R       | MF, 1%, 0207 | 0    | R 268 | 57.11.3102 |      | 1k0       | MF, 1%, 0207 |
| 0    | R 183 | 57.11.3150 |      | 15R       | MF, 1%, 0207 | 0    | R 269 | 57.11.3750 |      | 75R       | MF, 1%, 0207 |
| 0    | R 184 | 57.11.3150 |      | 15R       | MF, 1%, 0207 | 0    | R 270 | 57.11.3222 |      | 2k2       | MF, 1%, 0207 |
| 0    | R 185 | 57.11.3150 |      | 15R       | MF, 1%, 0207 | 0    | R 271 | 57.11.3222 |      | 2k2       | MF, 1%, 0207 |
| 0    | R 186 | 57.11.3150 |      | 15R       | MF, 1%, 0207 | 1    | R 272 | 57.11.3221 |      | 220R      | MF, 1%, 0207 |
| 0    | R 187 | 57.11.3150 |      | 15R       | MF, 1%, 0207 | 0    | R 273 | 57.11.3102 |      | 1k0       | MF, 1%, 0207 |
| 0    | R 188 | 57.11.3221 |      | 220R      | MF, 1%, 0207 | 0    | R 274 | 57.11.3820 |      | 82R       | MF, 1%, 0207 |
| 0    | R 189 | 57.11.3101 |      | 100R      | MF, 1%, 0207 | 0    | R 275 | 57.11.3222 |      | 2k2       | MF, 1%, 0207 |
| 0    | R 190 | 57.11.3150 |      | 15R       | MF, 1%, 0207 | 0    | R 276 | 57.11.3222 |      | 2k2       | MF, 1%, 0207 |
| 0    | R 191 | 57.11.3150 |      | 15R       | MF, 1%, 0207 | 0    | R 277 | 57.11.3331 |      | 330R      | MF, 1%, 0207 |
| 0    | R 192 | 57.11.3150 |      | 15R       | MF, 1%, 0207 | 0    | R 278 | 57.11.3102 |      | 1k0       | MF, 1%, 0207 |
| 0    | R 193 | 57.11.3150 |      | 15R       | MF, 1%, 0207 | 0    | R 279 | 57.11.3750 |      | 75R       | MF, 1%, 0207 |
| 0    | R 194 | 57.11.3105 |      | 1M0       | MF, 1%, 0207 | 0    | R 280 | 57.11.3222 |      | 2k2       | MF, 1%, 0207 |
| 0    | R 195 | 57.11.3103 |      | 10k       | MF, 1%, 0207 | 0    | R 281 | 57.11.3222 |      | 2k2       | MF, 1%, 0207 |
| 0    | R 196 | 57.11.3103 |      | 10k       | MF, 1%, 0207 | 0    | R 282 | 57.11.3331 |      | 330R      | MF, 1%, 0207 |
| 0    | R 197 | 57.11.3103 |      | 10k       | MF, 1%, 0207 | 0    | R 283 | 57.11.3102 |      | 1k0       | MF, 1%, 0207 |
| 0    | R 198 | 57.11.3103 |      | 10k       | MF, 1%, 0207 | 0    | R 284 | 57.11.3181 |      | 180R      | MF, 1%, 0207 |
| 0    | R 199 | 57.11.3103 |      | 10k       | MF, 1%, 0207 | 0    | R 285 | 57.11.3180 |      | 18R       | MF, 1%, 0207 |
| 0    | R 200 | 57.11.3472 |      | 4k7       | MF, 1%, 0207 | 0    | R 286 | 57.11.3180 |      | 18R       | MF, 1%, 0207 |
| 0    | R 201 | 57.11.3472 |      | 4k7       | MF, 1%, 0207 | 0    | R 287 | 57.11.3150 |      | 15R       | MF, 1%, 0207 |
| 0    | R 202 | 57.11.3472 |      | 4k7       | MF, 1%, 0207 | 0    | R 288 | 57.11.3150 |      | 15R       | MF, 1%, 0207 |
| 0    | R 203 | 57.11.3103 |      | 10k       | MF, 1%, 0207 | 0    | R 289 | 57.11.3150 |      | 15R       | MF, 1%, 0207 |
| 0    | R 204 | 57.11.3103 |      | 10k       | MF, 1%, 0207 | 0    | R 290 | 57.11.3150 |      | 15R       | MF, 1%, 0207 |
| 0    | R 205 | 57.11.3180 |      | 18R       | MF, 1%, 0207 | 0    | R 291 | 57.11.3221 |      | 220R      | MF, 1%, 0207 |
| 0    | R 206 | 57.11.3391 |      | 390R      | MF, 1%, 0207 | 0    | R 292 | 57.11.3150 |      | 15R       | MF, 1%, 0207 |
| 0    | R 207 | 57.11.3220 |      | 22R       | MF, 1%, 0207 | 0    | R 293 | 57.11.3150 |      | 15R       | MF, 1%, 0207 |
| 0    | R 208 | 57.11.3220 |      | 22R       | MF, 1%, 0207 | 0    | R 294 | 57.11.3150 |      | 15R       | MF, 1%, 0207 |
| 0    | R 209 | 57.11.3220 |      | 22R       | MF, 1%, 0207 | 0    | R 295 | 57.11.3150 |      | 15R       | MF, 1%, 0207 |
| 0    | R 210 | 57.11.3220 |      | 22R       | MF, 1%, 0207 | 0    | R 296 | 57.11.3221 |      | 220R      | MF, 1%, 0207 |
| 0    | R 211 | 57.11.3220 |      | 22R       | MF, 1%, 0207 | 0    | R 297 | 57.11.3150 |      | 15R       | MF, 1%, 0207 |
| 0    | R 212 | 57.11.3220 |      | 22R       | MF, 1%, 0207 | 0    | R 298 | 57.11.3150 |      | 15R       | MF, 1%, 0207 |
| 0    | R 213 | 57.11.3220 |      | 22R       | MF, 1%, 0207 | 0    | R 299 | 57.11.3101 |      | 100R      | MF, 1%, 0207 |
| 0    | R 214 | 57.11.3220 |      | 22R       | MF, 1%, 0207 | 0    | R 300 | 57.11.3181 |      | 180R      | MF, 1%, 0207 |
| 0    | R 215 | 57.11.3150 |      | 15R       | MF, 1%, 0207 | 0    | R 301 | 57.11.3180 |      | 18R       | MF, 1%, 0207 |
| 0    | R 216 | 57.11.3150 |      | 15R       | MF, 1%, 0207 | 0    | R 302 | 57.11.3180 |      | 18R       | MF, 1%, 0207 |
| 0    | R 217 | 57.11.3150 |      | 15R       | MF, 1%, 0207 | 0    | R 303 | 57.11.3180 |      | 18R       | MF, 1%, 0207 |
| 0    | R 218 | 57.11.3150 |      | 15R       | MF, 1%, 0207 | 0    | R 304 | 57.11.3180 |      | 18R       | MF, 1%, 0207 |
| 0    | R 219 | 57.11.3150 |      | 15R       | MF, 1%, 0207 | 0    | R 305 | 57.11.3181 |      | 180R      | MF, 1%, 0207 |
| 0    | R 220 | 57.11.3150 |      | 15R       | MF, 1%, 0207 | 0    | R 306 | 57.11.3150 |      | 15R       | MF, 1%, 0207 |
| 0    | R 221 | 57.11.3103 |      | 10k       | MF, 1%, 0207 | 0    | R 307 | 57.11.3150 |      | 15R       | MF, 1%, 0207 |
| 0    | R 222 | 57.11.3101 |      | 100R      | MF, 1%, 0207 | 0    | R 308 | 57.11.3150 |      | 15R       | MF, 1%, 0207 |
| 0    | R 223 | 57.11.3472 |      | 4k7       | MF, 1%, 0207 | 0    | R 309 | 57.11.3150 |      | 15R       | MF, 1%, 0207 |
| 0    | R 224 | 57.11.3104 |      | 100k      | MF, 1%, 0207 | 0    | R 310 | 57.11.3101 |      | 100R      | MF, 1%, 0207 |
| 0    | R 225 | 57.11.3103 |      | 10k       | MF, 1%, 0207 | 0    | R 311 | 57.11.3471 |      | 470R      | MF, 1%, 0207 |
| 0    | R 226 | 57.11.5475 |      | 4M7       | MF, 5%, 0207 | 0    | R 312 | 57.11.3181 |      | 180R      | MF, 1%, 0207 |
| 0    | R 227 | 57.11.3101 |      | 100R      | MF, 1%, 0207 | 0    | R 313 | 57.11.3222 |      | 2k2       | MF, 1%, 0207 |
| 0    | R 228 | 57.11.3150 |      | 15R       | MF, 1%, 0207 | 0    | R 314 | 57.11.3181 |      | 180R      | MF, 1%, 0207 |
| 0    | R 229 | 57.11.3150 |      | 15R       | MF, 1%, 0207 | 0    | R 315 | 57.11.3331 |      | 330R      | MF, 1%, 0207 |
| 0    | R 230 | 57.11.3150 |      | 15R       | MF, 1%, 0207 | 0    | R 316 | 57.11.3150 |      | 15R       | MF, 1%, 0207 |
| 0    | R 231 | 57.11.3150 |      | 15R       | MF, 1%, 0207 | 0    | R 317 | 57.11.3150 |      | 15R       | MF, 1%, 0207 |
| 0    | R 232 | 57.11.3101 |      | 100R      | MF, 1%, 0207 | 0    | R 318 | 57.11.3150 |      | 15R       | MF, 1%, 0207 |
| 0    | R 233 | 57.11.3150 |      | 15R       | MF, 1%, 0207 | 0    | R 319 | 57.11.3101 |      | 100R      | MF, 1%, 0207 |
| 0    | R 234 | 57.11.3150 |      | 15R       | MF, 1%, 0207 | 0    | R 320 | 57.11.3150 |      | 15R       | MF, 1%, 0207 |
| 0    | R 235 | 57.11.3150 |      | 15R       | MF, 1%, 0207 | 0    | R 321 | 57.11.3150 |      | 15R       | MF, 1%, 0207 |
| 0    | R 236 | 57.11.3150 |      | 15R       | MF, 1%, 0207 | 0    | R 322 | 57.11.3150 |      | 15R       | MF, 1%, 0207 |
| 0    | R 237 | 57.11.3150 |      | 15R       | MF, 1%, 0207 | 0    | R 323 | 57.11.3150 |      | 15R       | MF, 1%, 0207 |
| 0    | R 238 | 57.11.3150 |      | 15R       | MF, 1%, 0207 | 0    | R 324 | 57.11.3101 |      | 100R      | MF, 1%, 0207 |
| 0    | R 239 | 57.11.3150 |      | 15R       | MF, 1%, 0207 | 0    | R 325 | 57.11.3150 |      | 15R       | MF, 1%, 0207 |
| 0    | R 240 | 57.11.3150 |      | 15R       | MF, 1%, 0207 | 0    | R 326 | 57.11.3180 |      | 18R       | MF, 1%, 0207 |
| 0    | R 241 | 57.11.3101 |      | 100R      | MF, 1%, 0207 | 0    | R 327 | 57.11.3181 |      | 180R      | MF, 1%, 0207 |
| 0    | R 242 | 57.11.3330 |      | 33R       | MF, 1%, 0207 | 0    | R 328 | 57.11.3180 |      | 18R       | MF, 1%, 0207 |
| 0    | R 243 | 57.11.3330 |      | 33R       | MF, 1%, 0207 | 0    | R 329 | 57.11.3150 |      | 15R       | MF, 1%, 0207 |
| 0    | R 244 | 57.11.3150 |      | 15R       | MF, 1%, 0207 | 0    | R 330 | 57.11.3150 |      | 15R       | MF, 1%, 0207 |
| 0    | R 245 | 57.11.3150 |      | 15R       | MF, 1%, 0207 | 0    | R 331 | 57.11.3150 |      | 15R       | MF, 1%, 0207 |
| 0    | R 246 | 57.11.3150 |      | 15R       | MF, 1%, 0207 | 0    | R 332 | 57.11.3221 |      | 220R      | MF, 1%, 0207 |
| 0    | R 247 | 57.11.3150 |      | 15R       | MF, 1%, 0207 | 0    | R 333 | 57.11.3150 |      | 15R       | MF, 1%, 0207 |
| 0    | R 248 | 57.11.3180 |      | 18R       | MF, 1%, 0207 | 0    | R 334 | 57.11.3180 |      | 18R       | MF, 1%, 0207 |
| 0    | R 249 | 57.11.3180 |      | 18R       | MF, 1%, 0207 | 0    | R 335 | 57.11.3181 |      | 180R      | MF, 1%, 0207 |
| 0    | R 250 | 57.11.3180 |      | 18R       | MF, 1%, 0207 | 0    | R 336 | 57.11.3180 |      | 18R       | MF, 1%, 0207 |
| 0    | R 251 | 57.11.3180 |      | 18R       | MF, 1%, 0207 | 0    | R 337 | 57.11.3180 |      | 18R       | MF, 1%, 0207 |
| 0    | R 252 | 57.11.3220 |      | 22R       | MF, 1%, 0207 | 0    | R 338 | 57.11.3181 |      | 180R      | MF, 1%, 0207 |
| 0    | R 253 | 57.11.3220 |      | 22R       | MF, 1%, 0207 | 0    | R 339 | 57.11.3180 |      | 18R       | MF, 1%, 0207 |
| 0    | R 254 | 57.11.3750 |      | 75R       | MF, 1%, 0207 | 0    | R 340 | 57.11.3180 |      | 18R       | MF, 1%, 0207 |
| 0    | R 255 | 57.11.3222 |      | 2k2       | MF, 1%, 0207 | 0    | R 341 | 57.11.3181 |      | 180R      | MF, 1%, 0207 |
| 0    | R 256 | 57.11.3222 |      | 2k2       | MF, 1%, 0207 | 0    | R 342 | 57.11.3180 |      | 18R       | MF, 1%, 0207 |
| 0    | R 257 | 57.11.3331 |      | 330R      | MF, 1%, 0207 | 0    | R 343 | 57.11.3180 |      | 18R       | MF, 1%, 0207 |
| 0    | R 258 | 57.11.3102 |      | 1k0       | MF, 1%, 0207 | 0    | R 344 | 57.11.3181 |      | 180R      | MF, 1%, 0207 |
| 0    | R 259 | 57.11.3750 |      | 75R       | MF, 1%, 0207 | 0    | R 345 | 57.11.3180 |      | 18R       | MF, 1%, 0207 |
| 0    | R 260 | 57.11.3222 |      | 2k2       | MF, 1%, 0207 | 0    | R 346 | 57.11.3330 |      | 33R       | MF, 1%, 0207 |
| 0    | R 261 | 57.11.3222 |      | 2k2       | MF, 1%, 0207 | 0    | R 347 | 57.11.3330 |      | 33R       | MF, 1%, 0207 |
| 1    | R 262 | 57.11.3221 |      | 220R      | MF, 1%, 0207 | 0    | R 348 | 57.11.3330 |      | 33R       | MF, 1%, 0207 |

AUTOLOCATOR MKII WITH SMEM 1.328.709.00  
 -ALOC Front Board 1.328.714.00



| Idx. | Pos.  | Part No.   | Qty. | Type/Val. | Description                 | Idx. | Pos. | Part No.     | Qty. | Type/Val. | Description                   |
|------|-------|------------|------|-----------|-----------------------------|------|------|--------------|------|-----------|-------------------------------|
| 0    | R 349 | 57.11.3271 |      | 270R      | MF, 1%, 0207                | 0    | S 35 | 55.15.0531   |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN   |
| 0    | R 350 | 57.11.3330 |      | 33R       | MF, 1%, 0207                | 0    | S 36 | 55.15.0531   |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN   |
| 0    | R 351 | 57.11.3224 |      | 220K      | MF, 1%, 0207                | 0    | S 37 | 55.15.0531   |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN   |
| 0    | R 352 | 57.11.3471 |      | 470R      | MF, 1%, 0207                | 0    | S 38 | 55.15.0531   |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN   |
| U    | K 353 | 57.11.3471 |      | 470R      | MF, 1%, 0207                | 0    | S 39 | 55.15.0531   |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN   |
| 0    | R 354 | 57.11.3471 |      | 470R      | MF, 1%, 0207                | 0    | S 40 | 55.15.0531   |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN   |
| 0    | R 355 | 57.11.3471 |      | 470R      | MF, 1%, 0207                | 0    | S 41 | 55.15.0531   |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN   |
| 0    | R 356 | 57.11.3821 |      | 820R      | MF, 1%, 0207                | 0    | S 42 | 55.15.0531   |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN   |
| 0    | R 357 | 57.11.3222 |      | 2k2       | MF, 1%, 0207                | 0    | S 43 | 55.15.0531   |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN   |
| 0    | R 358 | 57.11.3222 |      | 2k2       | MF, 1%, 0207                | 0    | S 44 | 55.15.0531   |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN   |
| 0    | R 359 | 57.11.3220 |      | 22R       | MF, 1%, 0207                | 0    | S 45 | 55.15.0531   |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN   |
| 0    | R 360 | 57.11.3220 |      | 22R       | MF, 1%, 0207                | 0    | S 46 | 55.15.0531   |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN   |
| 0    | R 361 | 57.11.3220 |      | 22R       | MF, 1%, 0207                | 0    | S 47 | 55.15.0531   |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN   |
| 0    | R 362 | 57.11.3220 |      | 22R       | MF, 1%, 0207                | 0    | S 48 | 55.15.0531   |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN   |
| 0    | R 363 | 57.11.3222 |      | 2k2       | MF, 1%, 0207                | 0    | S 49 | 55.15.0531   |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN   |
| 0    | R 364 | 57.11.3331 |      | 330R      | MF, 1%, 0207                | 0    | S 50 | 55.15.0531   |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN   |
| 0    | R 365 | 57.11.3222 |      | 2k2       | MF, 1%, 0207                | 0    | S 51 | 55.15.0531   |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN   |
| 0    | R 366 | 57.11.3220 |      | 22R       | MF, 1%, 0207                | 0    | S 52 | 55.15.0531   |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN   |
| 0    | R 367 | 57.11.3220 |      | 22R       | MF, 1%, 0207                | 0    | S 53 | 55.15.0531   |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN   |
| 0    | R 368 | 57.11.3331 |      | 330R      | MF, 1%, 0207                | 0    | S 54 | 55.15.0531   |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN   |
| 0    | R 369 | 57.11.3101 |      | 100R      | MF, 1%, 0207                | 0    | S 55 | 55.15.0531   |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN   |
| 0    | R 370 | 57.11.3220 |      | 22R       | MF, 1%, 0207                | 0    | S 56 | 55.15.0531   |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN   |
| 0    | R 371 | 57.11.3220 |      | 22R       | MF, 1%, 0207                | 0    | S 57 | 55.15.0531   |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN   |
| 0    | R 372 | 57.11.3220 |      | 22R       | MF, 1%, 0207                | 0    | S 58 | 55.15.0531   |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN   |
| 0    | R 373 | 57.11.3220 |      | 22R       | MF, 1%, 0207                | 0    | S 59 | 55.15.0531   |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN   |
| 0    | R 374 | 57.11.3220 |      | 22R       | MF, 1%, 0207                | 0    | S 60 | 55.15.0531   |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN   |
| 0    | R 375 | 57.11.3101 |      | 100R      | MF, 1%, 0207                | 0    | S 61 | 55.15.0531   |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN   |
| 0    | R 376 | 57.11.3181 |      | 180R      | MF, 1%, 0207                | 0    | S 62 | 55.15.0531   |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN   |
| 0    | R 377 | 57.11.3180 |      | 18R       | MF, 1%, 0207                | 0    | S 63 | 55.15.0531   |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN   |
| 0    | R 378 | 57.11.3180 |      | 18R       | MF, 1%, 0207                | 0    | S 64 | 55.15.0531   |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN   |
| 0    | R 379 | 57.11.3750 |      | 75R       | MF, 1%, 0207                | 0    | S 65 | 55.15.0531   |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN   |
| 0    | R 380 | 57.11.3222 |      | 2k2       | MF, 1%, 0207                | 0    | S 66 | 55.15.0531   |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN   |
| 0    | R 381 | 57.11.3222 |      | 2k2       | MF, 1%, 0207                | 0    | S 67 | 55.15.0531   |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN   |
| 0    | R 382 | 57.11.3331 |      | 330R      | MF, 1%, 0207                | 0    | S 68 | 55.15.0531   |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN   |
| 0    | R 383 | 57.11.3102 |      | 1k0       | MF, 1%, 0207                | 0    | S 69 | 55.15.0531   |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN   |
| 0    | R 384 | 57.11.3750 |      | 75R       | MF, 1%, 0207                | 0    | S 70 | 55.15.0531   |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN   |
| 0    | R 385 | 57.11.3222 |      | 2k2       | MF, 1%, 0207                | 0    | S 71 | 55.15.0531   |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN   |
| 0    | R 386 | 57.11.3102 |      | 1k0       | MF, 1%, 0207                | 0    | S 72 | 55.15.0531   |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN   |
| 0    | R 387 | 57.11.3750 |      | 75R       | MF, 1%, 0207                | 0    | S 73 | 55.15.0531   |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN   |
| 0    | R 388 | 57.11.3222 |      | 2k2       | MF, 1%, 0207                | 0    | S 74 | 55.15.0531   |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN   |
| 0    | R 389 | 57.11.3222 |      | 2k2       | MF, 1%, 0207                |      |      |              |      |           |                               |
| 0    | R 390 | 57.11.3473 |      | 47k       | MF, 1%, 0207                | 0    | W 1  | 1.010.204.64 |      |           | LITZE GB, 70MM, M.RASTKONTAKT |
| 0    | R 391 | 57.11.3331 |      | 330R      | MF, 1%, 0207                | 0    | W 2  | 1.010.203.64 |      |           | LITZE OR, 70MM, M.RASTKONTAKT |
| 0    | R 392 | 57.11.3102 |      | 1k0       | MF, 1%, 0207                | 0    | W 3  | 1.010.201.64 |      |           | LITZE BR, 70MM, M.RASTKONTAKT |
| 0    | R 393 | 57.11.3750 |      | 75R       | MF, 1%, 0207                | 0    | W 4  | 1.010.206.64 |      |           | LITZE BL, 70MM, M.RASTKONTAKT |
| 0    | R 394 | 57.11.3222 |      | 2k2       | MF, 1%, 0207                | 0    | W 5  | 1.010.204.64 |      |           | LITZE GB, 70MM, M.RASTKONTAKT |
| 0    | R 395 | 57.11.3102 |      | 1k0       | MF, 1%, 0207                | 0    | W 6  | 1.010.203.64 |      |           | LITZE OR, 70MM, M.RASTKONTAKT |
| 0    | R 396 | 57.11.3820 |      | 82R       | MF, 1%, 0207                | 0    | W 7  | 1.010.201.64 |      |           | LITZE BR, 70MM, M.RASTKONTAKT |
| 0    | R 397 | 57.11.3222 |      | 2k2       | MF, 1%, 0207                | 0    | W 8  | 1.010.206.64 |      |           | LITZE BL, 70MM, M.RASTKONTAKT |
| 0    | R 398 | 57.11.3102 |      | 1k0       | MF, 1%, 0207                | 0    | W 9  | 1.010.204.64 |      |           | LITZE GB, 70MM, M.RASTKONTAKT |
| 0    | R 399 | 57.11.3220 |      | 22R       | MF, 1%, 0207                | 0    | W 10 | 1.010.203.64 |      |           | LITZE OR, 70MM, M.RASTKONTAKT |
| 0    | R 400 | 57.11.3220 |      | 22R       | MF, 1%, 0207                | 0    | W 11 | 1.010.201.64 |      |           | LITZE BR, 70MM, M.RASTKONTAKT |
| 0    | S 1   | 55.15.0531 |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN | 0    | W 12 | 1.010.206.64 |      |           | LITZE BL, 70MM, M.RASTKONTAKT |
| 0    | S 2   | 55.15.0531 |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN | 0    | W 13 | 1.010.204.64 |      |           | LITZE GB, 70MM, M.RASTKONTAKT |
| 0    | S 3   | 55.15.0531 |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN | 0    | W 14 | 1.010.203.64 |      |           | LITZE OR, 70MM, M.RASTKONTAKT |
| 0    | S 4   | 55.15.0531 |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN | 0    | W 15 | 1.010.201.64 |      |           | LITZE BR, 70MM, M.RASTKONTAKT |
| 0    | S 5   | 55.15.0531 |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN | 0    | W 16 | 1.010.206.64 |      |           | LITZE BL, 70MM, M.RASTKONTAKT |
| 0    | S 6   | 55.15.0531 |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN | 0    | W 17 | 1.010.204.64 |      |           | LITZE GB, 70MM, M.RASTKONTAKT |
| 0    | S 7   | 55.15.0531 |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN | 0    | W 18 | 1.010.203.64 |      |           | LITZE OR, 70MM, M.RASTKONTAKT |
| 0    | S 8   | 55.15.0531 |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN | 0    | W 19 | 1.010.201.64 |      |           | LITZE BR, 70MM, M.RASTKONTAKT |
| 0    | S 9   | 55.15.0531 |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN | 0    | W 20 | 1.010.206.64 |      |           | LITZE BL, 70MM, M.RASTKONTAKT |
| 0    | S 10  | 55.15.0531 |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN | 0    | W 21 | 1.010.204.64 |      |           | LITZE GB, 70MM, M.RASTKONTAKT |
| 0    | S 11  | 55.15.0531 |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN | 0    | W 22 | 1.010.203.64 |      |           | LITZE OR, 70MM, M.RASTKONTAKT |
| 0    | S 12  | 55.15.0531 |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN | 0    | W 23 | 1.010.201.64 |      |           | LITZE BR, 70MM, M.RASTKONTAKT |
| 0    | S 13  | 55.15.0531 |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN | 0    | W 24 | 1.010.206.64 |      |           | LITZE BL, 70MM, M.RASTKONTAKT |
| 0    | S 14  | 55.15.0531 |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN | 0    | W 25 | 1.010.204.64 |      |           | LITZE GB, 70MM, M.RASTKONTAKT |
| 0    | S 15  | 55.15.0531 |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN |      |      |              |      |           |                               |
| 0    | S 16  | 55.15.0531 |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN |      |      |              |      |           |                               |
| 0    | S 17  | 55.15.0531 |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN |      |      |              |      |           |                               |
| 0    | S 18  | 55.15.0531 |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN |      |      |              |      |           |                               |
| 0    | S 19  | 55.15.0531 |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN |      |      |              |      |           |                               |
| 0    | S 20  | 55.15.0531 |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN |      |      |              |      |           |                               |
| 0    | S 21  | 55.15.0531 |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN |      |      |              |      |           |                               |
| 0    | S 22  | 55.15.0531 |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN |      |      |              |      |           |                               |
| 0    | S 23  | 55.15.0531 |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN |      |      |              |      |           |                               |
| 0    | S 24  | 55.15.0531 |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN |      |      |              |      |           |                               |
| 0    | S 25  | 55.15.0531 |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN |      |      |              |      |           |                               |
| 0    | S 26  | 55.15.0531 |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN |      |      |              |      |           |                               |
| 0    | S 27  | 55.15.0531 |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN |      |      |              |      |           |                               |
| 0    | S 28  | 55.15.0531 |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN |      |      |              |      |           |                               |
| 0    | S 29  | 55.15.0531 |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN |      |      |              |      |           |                               |
| 0    | S 30  | 55.15.0531 |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN |      |      |              |      |           |                               |
| 0    | S 31  | 55.15.0531 |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN |      |      |              |      |           |                               |
| 0    | S 32  | 55.15.0531 |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN |      |      |              |      |           |                               |
| 0    | S 33  | 55.15.0531 |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN |      |      |              |      |           |                               |
| 0    | S 34  | 55.15.0531 |      | 1*a       | S TASTE 1*A, IMPULS OHNE KN |      |      |              |      |           |                               |

AUTOLOCATOR MKII WITH SMEM 1.328.709.00  
 -ALOC Front Board 1.328.714.00



| Idx. | Pos.  | Part No.     | Qty. | Type/Val. | Description                   |
|------|-------|--------------|------|-----------|-------------------------------|
| 0    | W 26  | 1.010.203.64 |      |           | LITZE OR, 70MM, M.RASTKONTAKT |
| 0    | W 27  | 1.010.201.64 |      |           | LITZE BR, 70MM, M.RASTKONTAKT |
| 0    | W 28  | 1.010.206.64 |      |           | LITZE BL, 70MM, M.RASTKONTAKT |
| 0    | W 29  | 1.010.204.64 |      |           | LITZE GB, 70MM, M.RASTKONTAKT |
| 0    | W 30  | 1.010.203.64 |      |           | LITZE OR, 70MM, M.RASTKONTAKT |
| 0    | W 31  | 1.010.201.64 |      |           | LITZE BR, 70MM, M.RASTKONTAKT |
| 0    | W 32  | 1.010.206.64 |      |           | LITZE BL, 70MM, M.RASTKONTAKT |
| 0    | W 33  | 1.010.204.64 |      |           | LITZE GB, 70MM, M.RASTKONTAKT |
| 0    | W 34  | 1.010.203.64 |      |           | LITZE OR, 70MM, M.RASTKONTAKT |
| 0    | W 35  | 1.010.201.64 |      |           | LITZE BR, 70MM, M.RASTKONTAKT |
| 0    | W 36  | 1.010.206.64 |      |           | LITZE BL, 70MM, M.RASTKONTAKT |
| 0    | W 37  | 1.010.204.64 |      |           | LITZE GB, 70MM, M.RASTKONTAKT |
| 0    | W 38  | 1.010.203.64 |      |           | LITZE OR, 70MM, M.RASTKONTAKT |
| 0    | W 39  | 1.010.201.64 |      |           | LITZE BR, 70MM, M.RASTKONTAKT |
| 0    | W 40  | 1.010.206.64 |      |           | LITZE BL, 70MM, M.RASTKONTAKT |
| 0    | W 41  | 1.010.204.64 |      |           | LITZE GB, 70MM, M.RASTKONTAKT |
| 0    | W 42  | 1.010.203.64 |      |           | LITZE OR, 70MM, M.RASTKONTAKT |
| 0    | W 43  | 1.010.201.64 |      |           | LITZE BR, 70MM, M.RASTKONTAKT |
| 0    | W 44  | 1.010.206.64 |      |           | LITZE BL, 70MM, M.RASTKONTAKT |
| 0    | XIC 1 | 53.03.0166   |      | 8p        | DIL 0.3", lot, gerade         |
| 0    | XIC 2 | 53.03.0166   |      | 8p        | DIL 0.3", lot, gerade         |
| 0    | XIC 3 | 53.03.0167   |      | 14p       | DIL 0.3", lot, gerade         |

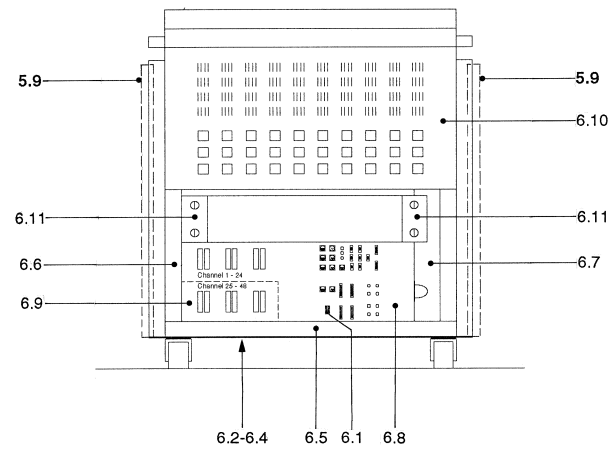
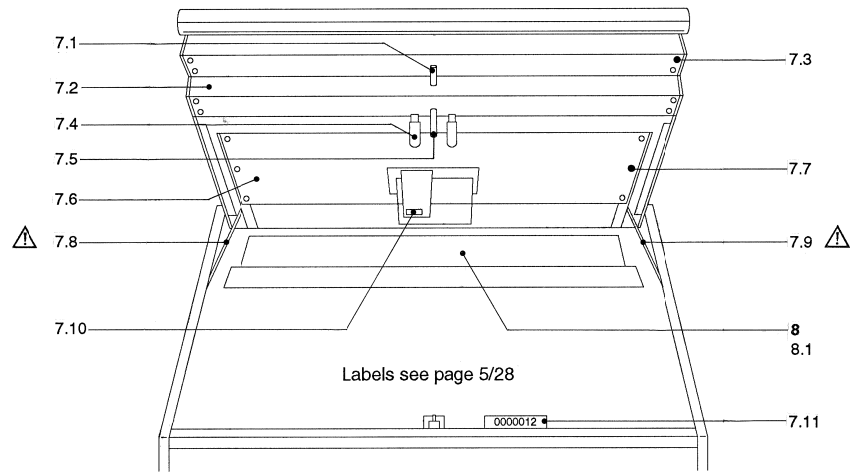
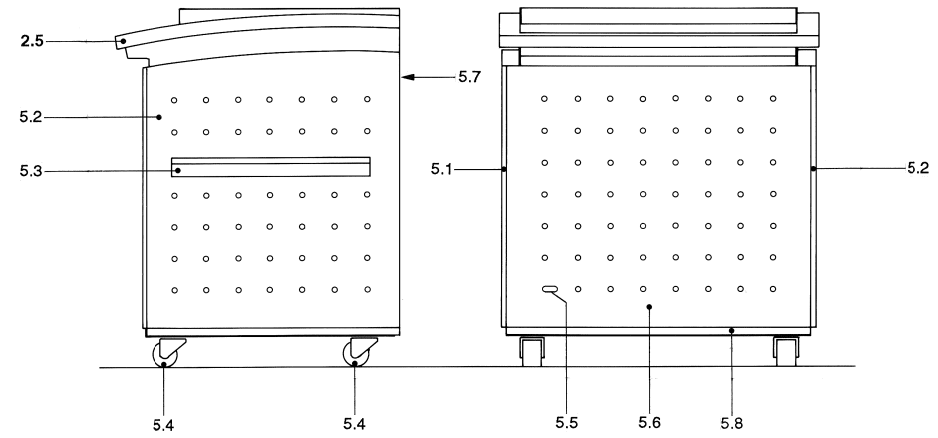
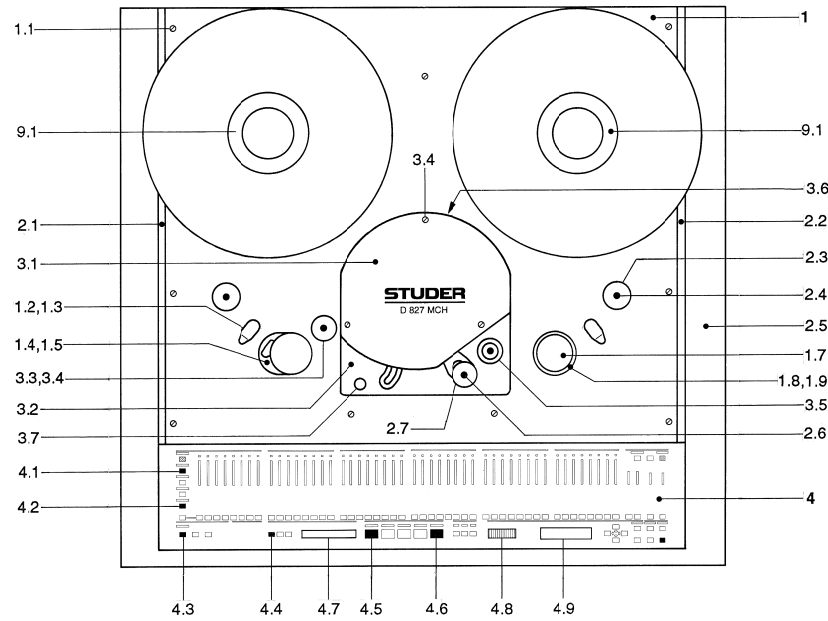
End of List


Comments:

**5 Spare Parts**

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5.1 Covers, Console



 Do never install two gas damper units with lock!

STUDER D827 MCH

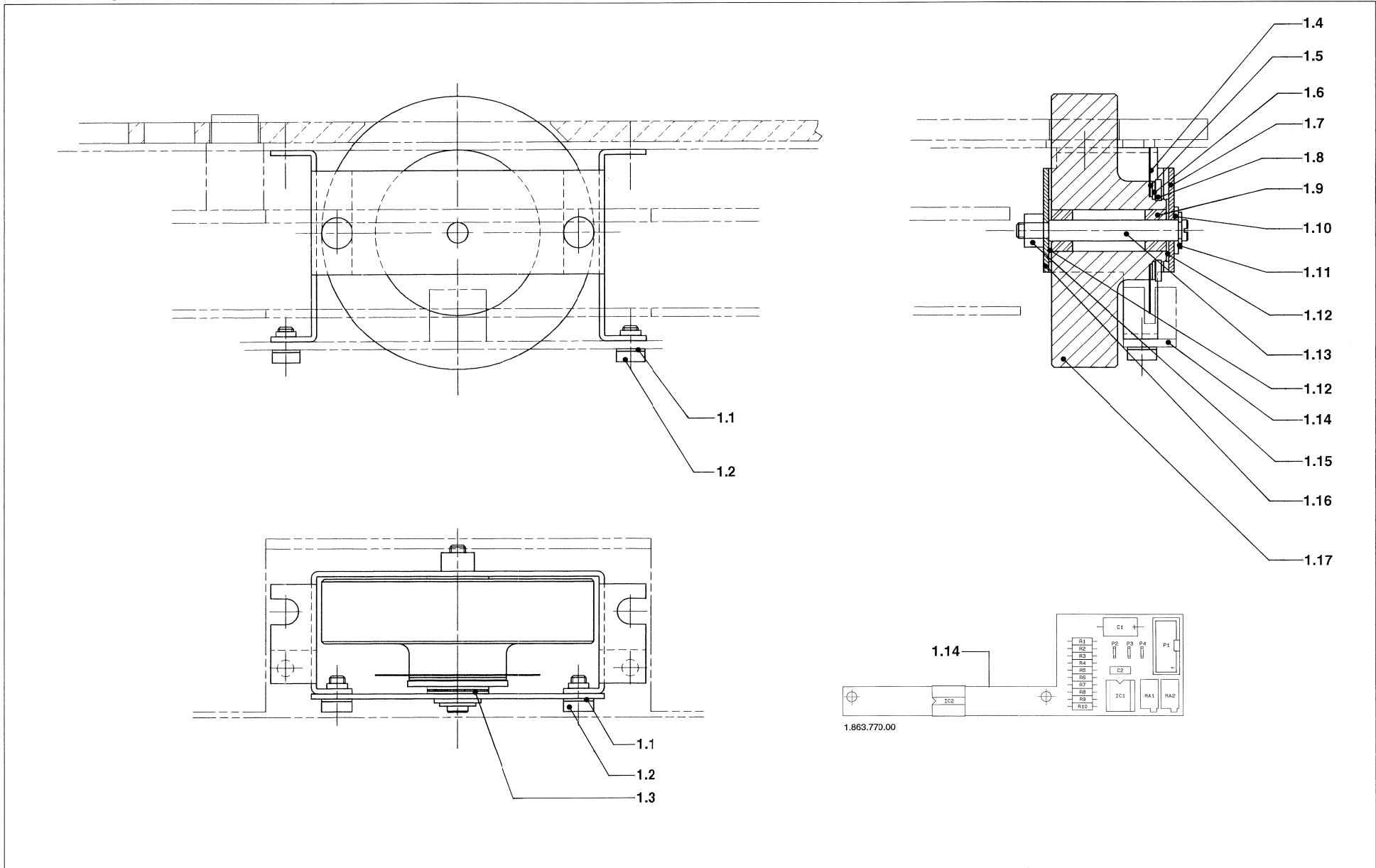
Covers, Console

| Index   | Qty. | Order No.    | Part Name                                   | Specification |
|---------|------|--------------|---|---------------|
| 1       | 1    | 1.863.114.00 | Tape transport coverplate                   | compl.        |
| 1.1     | 13   | 21.51.8455   | Oval head screw                             | M4x8          |
| 1.2     | 2    | 1.820.110.02 | Cover for tape tension sensor               | ½"            |
| 1.3     | 2    | 1.820.110.17 | Rubber stopper                              |               |
| 1.4     | 1    | 1.862.114.02 | Coverplate for Lightbarrier                 |               |
| 1.5     | 1    | 1.863.114.03 | Support                                     |               |
| 1.7     | 2    | 1.863.114.02 | Cover for guide rollers                     |               |
| 1.8     | 1    | 1.820.114.04 | Cover plate for guide roller                |               |
| 1.9     | 1    | 1.863.114.04 | Support                                     |               |
| 2.1     | 1    | 1.863.310.02 | Side cover plate left                       |               |
| 2.2     | 1    | 1.863.310.01 | Side cover plate right                      |               |
| 2.3     | 2    | 1.820.410.05 | Roller cap                                  |               |
| 2.4     | 2    | 1.010.040.21 | Countersunk screw special                   | M4x20         |
| 2.5     |      | 1.863.312.00 | Purple Trim                                 |               |
| 2.6     | 1    | 1.820.420.05 | Pinchroller cap                             |               |
| 2.7     | 1    | 1.010.036.21 | Countersunk screw special                   | M4x14         |
| 3.1     | 1    | 1.863.116.03 | Head cover complete                         |               |
| 3.2     | 1    | 1.862.116.10 | Head block Base cover complete              |               |
| 3.3     | 1    | 1.050.497.00 | Guide roller complete                       | ½"            |
| 3.4     | 4    | 1.010.036.21 | Countersunk screw special                   | M4x14         |
| 3.5     | 1    | 1.050.490.00 | Guide roller complete                       | ½"            |
| 3.6     | 1    | 1.862.116.02 | Head block rear cover                       |               |
| 3.7     | 1    | 1.862.116.07 | Head protection bolt                        |               |
|         | 1    | 21.51.2472   | Countersunk screw                           | M4x16         |
|         |      | 25.06.8154   | Bolt  |               |
| 4       | 1    | 1.863.230.05 | Plexiglas only                              | 48CH          |
|         | or   | 1.863.231.02 | Plexiglas only                              | 24CH          |
|         | 1    | 1.863.232.00 | Front cover plate Plexiglas with Metalframe | 48CH          |
|         | or   | 1.863.233.00 | Front cover plate Plexiglas with Metalframe | 24CH          |
| 4.1     | 1    | 1.010.049.55 | Push button green                           | 9x6,5         |
| 4.2     | 65   | 1.010.045.55 | Push button light gray                      | 9x6,5         |
| 4.3     | 3    | 1.010.050.55 | Push button red                             | 9x6,5         |
| 4.4     | 11   | 1.010.048.55 | Push button dark grey                       | 9x6,5         |
| 4.5     | 4    | 1.010.046.55 | Push button light gray                      | 19x13         |
| 4.6     | 1    | 1.010.051.55 | Push button red                             | 19x13         |
| 4.1-4.6 | 85   | 55.15.0531   | Switch                                      |               |
| 4.7     | 11   | 73.01.0134   | 7-Segment LED Display IC, green             |               |
| 4.8     | 1    | 1.863.250.00 | Edit assembly<br>(for Parameter setting)    |               |
| 4.9     | 1    | 1.863.763.00 | LCD-Display (illuminated)                   | compl.        |
| 5.1     | 1    | 1.863.313.81 | (Left hand cover wood part only)            |               |
|         | 1    | 1.863.313.10 | Left hand cover complete                    |               |
| 5.2     | 1    | 1.863.314.81 | (Right hand cover wood part only)           |               |
|         | 1    | 1.863.314.20 | Right hand cover complete                   |               |
| 5.3     | 2    | 1.863.550.04 | Handle                                      | 10A           |
| 5.4     | 4    | 33.04.0250   | Double wheels                               |               |
| 5.5     | 1    | 55.17.5004   | Mains switch                                |               |
| 5.6     | 1    | 1.863.311.10 | Front cover complete                        |               |
| 5.7     | 1    | 1.863.550.01 | Rear cover                                  |               |
| 5.8     | 1    | 1.863.550.25 | U-Profile                                   |               |
| 5.9     | 2    | 1.863.314.10 | Rubber Protector for rear edge (Option)     |               |

| Index | Qty. | Order No.    | Part Name   | Specification |
|-------|------|--------------|---|---------------|
| 6.1   | 1    | 1.863.550.08 | BNC Support without BNC connectors                    | 54.21.2032    |
|       | or   | 89.10.0011   | Socket for Optical Madi cable                         |               |
| 6.2   | 1    | 1.863.550.05 | Air filter brakret                                    |               |
| 6.3   | 1    | 1.863.550.06 | Air filter  | D14           |
| 6.4   | 10   | 33.02.0401   | Magnet holder for Air filter                          |               |
| 6.5   | 1    | 1.863.550.10 | Bottom rear panel                                     |               |
| 6.6   | 1    | 1.863.550.03 | Rear Side panel right                                 |               |
| 6.7   | 1    | 1.863.550.02 | Rear Side panel left                                  |               |
| 6.8   | 1    | 1.863.550.09 | Connector panel                                       |               |
| 6.9   | 1    | 1.863.550.33 | Cover for 24CH analog I/O                             |               |
| 6.10  | 1    | 1.863.550.01 | Upper rear panel                                      |               |
| 6.11  | 1    | 1.863.560.00 | Option Rack mounting device<br>Rack unit not included |               |
| 7.1   |      | 1.863.550.20 | Knob  |               |
| 7.2   | 1    | 1.863.310.06 | Front cover tape transport                            |               |
| 7.3   |      | 21.53.2454   | Countersunk screw                                     | M4x6          |
| 7.4   | 2    | 31.02.0220   | Rubber protection bolt                                | D17/26        |
|       | 2    | 1.010.080.27 | Spacer to above                                       | D5,2/10x5     |
| 7.5   | 1    | 1.820.300.14 | Snap lock lever                                       |               |
| 7.6   |      | 1.863.260.05 | Tape transport bottom cover plate                     |               |
| 7.7   |      | 21.53.9454   | Cheesehead screw with lock-washer                     | M4x6          |
| 7.8   | 1    | 1.863.316.00 | Gas damper with lock (Lift-o-Mat)                     | 400N          |
| 7.9   | 1    | 1.863.315.00 | Gas damper without lock (Lift-o-Mat)                  | 400N          |
| 7.10  |      | 35.03.0134   | Cable clip for flat cable                             | width 58      |
|       |      | 35.03.0133   | Cable clip for flat cable                             | width 33      |
|       |      | 35.03.0192   | Cable clip for round wirehareness                     | width 63      |
| 7.11  | 1    | 73.01.0116   | Elapse counter  |               |
|       | 1    | 73.01.0117   | Mounting clamp  |               |
| 8     | 1    | 1.863.560.00 | Ventilator unit compl.                                |               |
| 8.1   | 2    | 72.01.0109   | Ventilator  | 24VDC/14W     |
| 9.1   | 2    | 1.013.406.81 | Adapter   | ½"            |



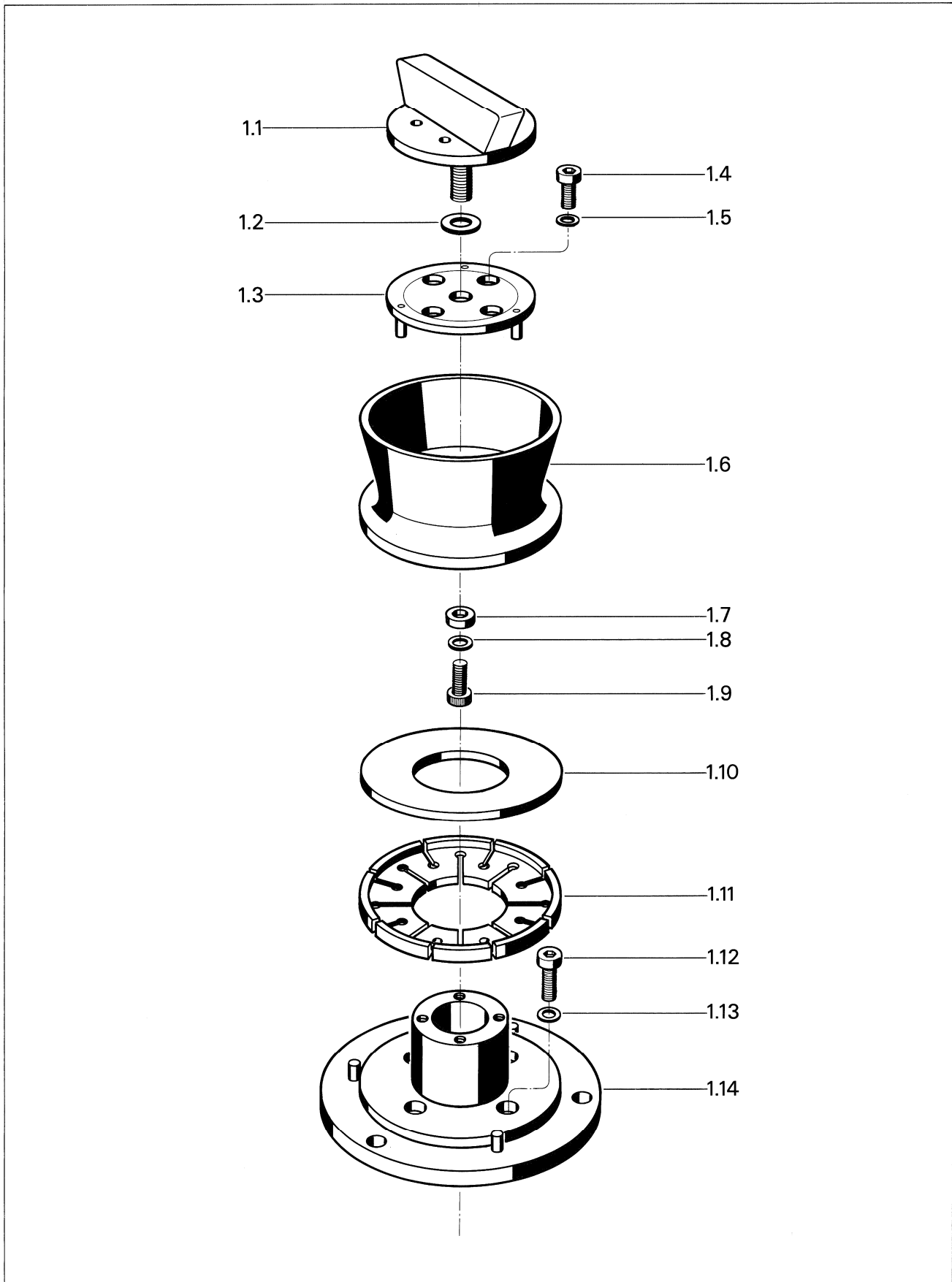
5.2 Edit Assembly



## Edit Assembly

| Index | Qty. | Order No.    | Part Name                             | Specification    |
|-------|------|--------------|---------------------------------------|------------------|
|       |      | 1.863.250.00 | Edit-assembly (for parameter setting) |                  |
| 1.1   | 4    | 24.16.1030   | Fin-washer                            | D3.2/5.5         |
| 1.2   | 4    | 21.51.8354   | Screw                                 | M3x6             |
| 1.3   | 2    | 1.062.210.09 | Spacer shim                           | D4.3/7.5x0.2     |
| 1.4   | 1    | 1.820.250.06 | Tacho disk                            |                  |
| 1.5   | 1    | 24.99.0132   | Special washer                        | 13.2/18.8x0.2    |
| 1.6   | 1    | 1.010.083.23 | Washer                                | D12.1/19.0x0.5MS |
| 1.7   | 1    | 1.863.250.04 | Cover                                 |                  |
| 1.8   | 1    | 24.16.5120   | Circlip                               | D12              |
| 1.9   | 2    | 41.03.0116   | Carbide bearing                       | D4/8x4           |
| 1.10  | 1    | 23.01.2043   | Washer                                | D4.3/9x0.8       |
| 1.11  | 1    | 24.16.3032   | Circlip                               | 3.2              |
| 1.12  | 2    | 1.010.046.23 | Spacer shim                           | D4.2/12x0.5      |
| 1.13  | 1    | 1.863.250.03 | Shaft                                 |                  |
| 1.14  | 1    | 1.863.770.00 | Cue tacho board                       |                  |
| 1.15  | 1    | 22.99.0112   | Special nut                           | M3               |
| 1.16  | 1    | 1.863.250.02 | Support                               |                  |
| 1.17  | 1    | 1.863.250.01 | Edit wheel (for parameter setting)    |                  |

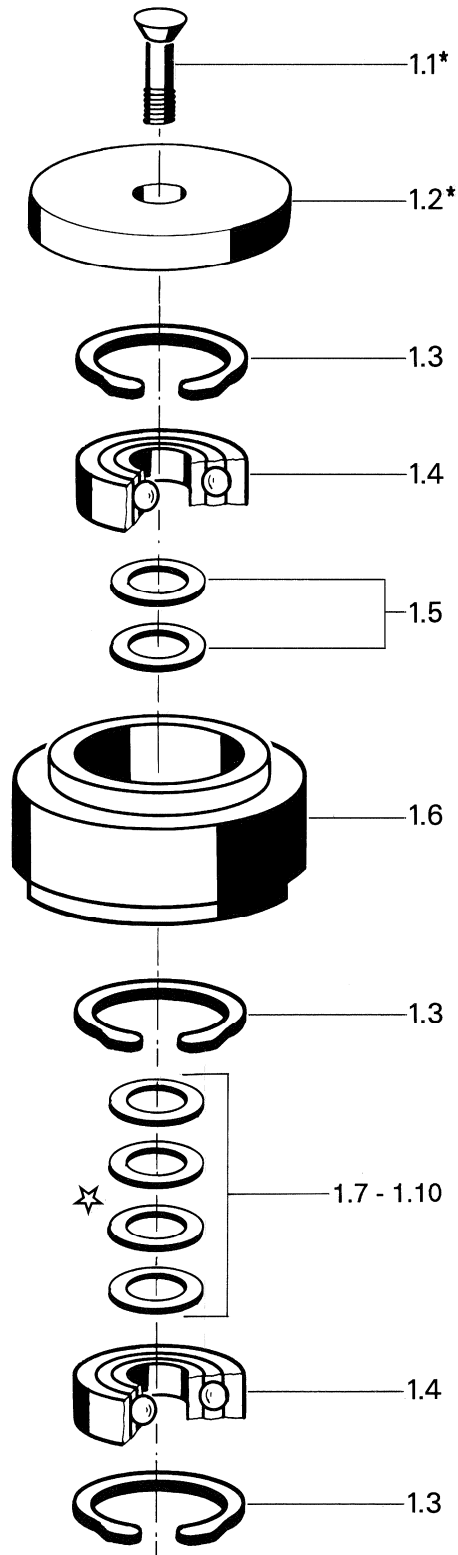
5.3 Adapter 1/2"



## Adapter 1/2"

| Index | Qty. | Order No.    | Part Name          | Specification |
|-------|------|--------------|--------------------|---------------|
|       |      | 1.013.406.81 | Adapter            | 1/2"          |
| 1.1   | 1    | 1.013.405.00 | Screw grip compl.  |               |
| 1.2   | 1    | 1.013.400.16 | POM-washer         |               |
| 1.3   | 1    | 1.013.400.12 | Upper thrust plate |               |
| 1.4   | 4    | 21.53.0457   | Allen screw        | ZN,M4x12      |
| 1.5   | 4    | 24.16.1040   | Fin washer         | D4.3/7        |
| 1.6   | 1    | 1.013.400.18 | Grip               |               |
| 1.7   | 1    | 1.010.018.23 | Washer             | MS,D4.2/9x2.5 |
| 1.8   | 1    | 24.16.1040   | Fin washer         | D4.3/7        |
| 1.9   | 1    | 21.53.0456   | Allen screw        | ZN,M4x10      |
| 1.10  | 1    | 1.013.406.02 | Lower thrust plate |               |
| 1.11  | 1    | 1.013.400.05 | Expanding ring     |               |
| 1.12  | 4    | 21.53.0471   | Allen screw        | ZN,M4x14      |
| 1.13  | 4    | 24.16.1040   | Fin washer         | D4.3/7        |
| 1.14  | 1    | 1.013.406.01 | Adapter support    |               |

5.4 Pinch Roller



★ HEIGHT ADJUSTED

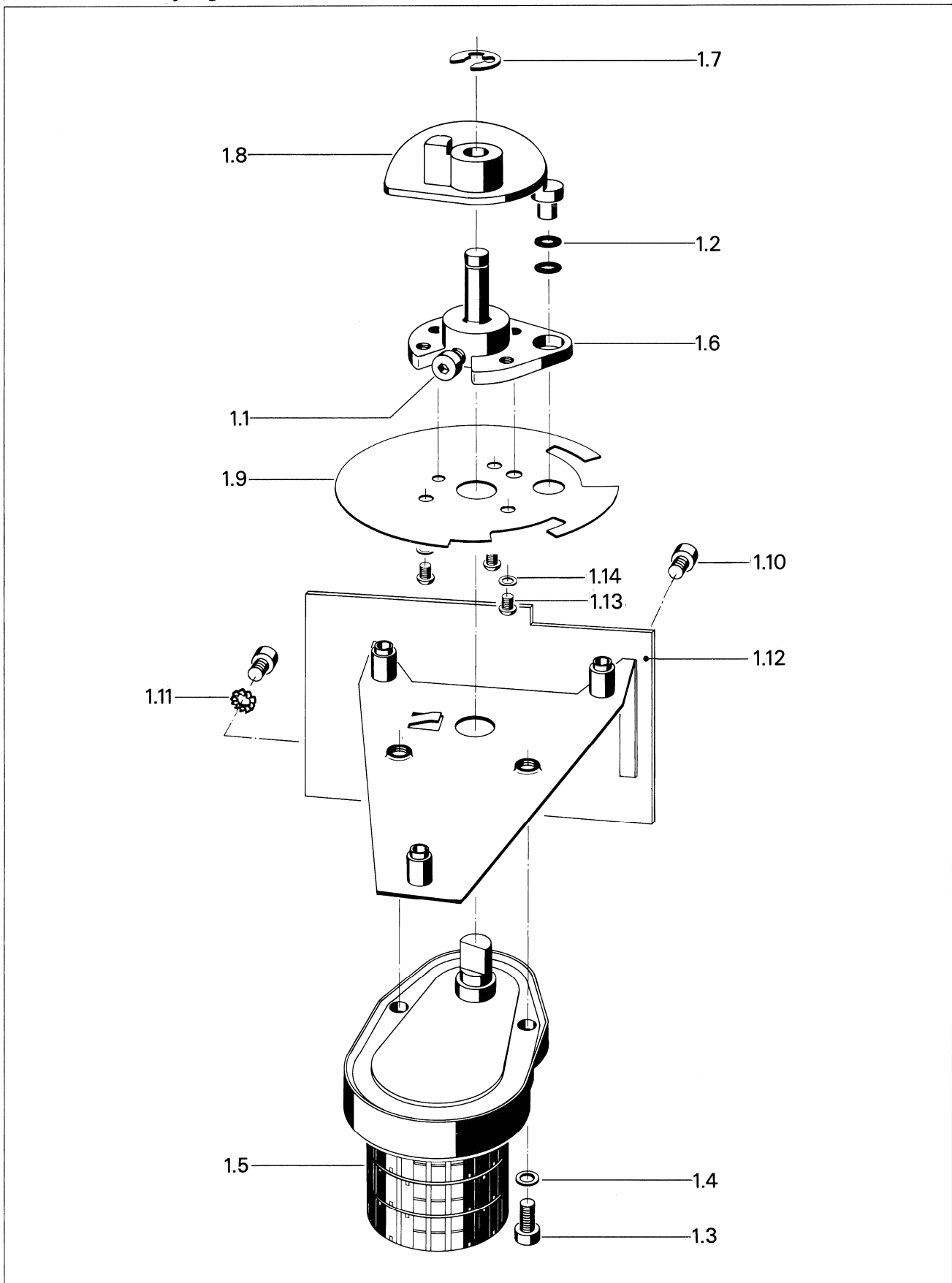
## Pinch Roller

| Index | Qty. | Order No.    | Part Name                  | Specification      |
|-------|------|--------------|----------------------------|--------------------|
|       |      | 1.820.430.81 | Pinch roller 1/2" complete | (* = not included) |
| *1.1  | 1    | 1.010.040.21 | Special screw              |                    |
| *1.2  | 1    | 1.820.420.05 | Roller cap                 |                    |
| 1.3   | 3    | 24.99.0131   | Climps                     |                    |
| 1.4   | 1    | 41.04.0110   | Ball bearing               |                    |
| 1.5   | 2    | 37.02.0203   | Dish spring                |                    |
| 1.6   | 2    | 1.820.430.06 | Pinch roller               |                    |
| 1.7   |      | 1.010.062.23 | Spacer shim                | 0.1mm              |
| 1.8   |      | 1.010.063.23 | Spacer shim                | 0.12mm             |
| 1.9   |      | 1.010.064.23 | Spacer shim                | 0.15mm             |
| 1.10  |      | 1.010.065.23 | Spacer shim                | 0.18mm             |

**Important:**

Please note that after partial disassembly of this unit the height of the pinch roller must be checked and readjusted!

5.5 Lifter Assembly Right

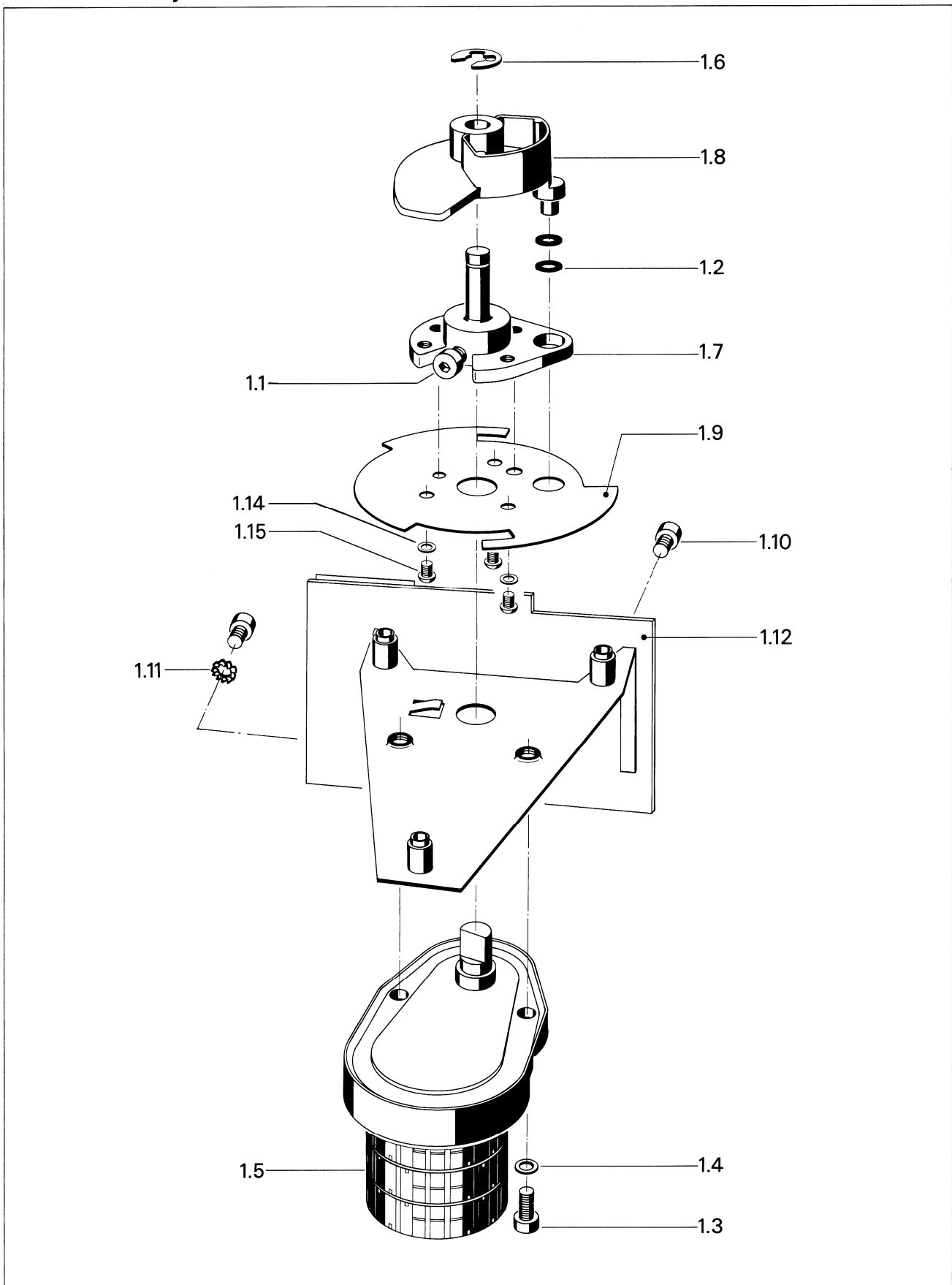


## Lifter Assembly Right

| Index | Qty. | Order No.    | Part Name                   | Specification |
|-------|------|--------------|-----------------------------|---------------|
|       |      | 1.820.141.81 | Tape guide assembly right   |               |
| 1.1   | 1    | 21.53.0456   | Allen screw                 | M4x10         |
| 1.2   | 2    | 1.710.165.07 | Ring                        |               |
| 1.3   | 2    | 21.53.0472   | Allen screw                 | M4x16         |
| 1.4   | 2    | 24.16.1040   | Fin washer                  | D4.3/7        |
| 1.5   | 1    | 1.820.142.00 | Synchronous motor, complete |               |
| 1.6   | 1    | 1.820.141.03 | Brass flange                |               |
| 1.7   | 1    | 24.16.3060   | Circlip                     | D6.0          |
| 1.8   | 1    | 1.820.141.05 | Driving cam right           |               |
| 1.9   | 1    | 1.820.141.06 | Control cam right           |               |
| 1.10  | 4    | 21.53.9354   | Allen screw                 | M3x6          |
| 1.11  | 1    | 24.16.2030   | Serrated washer             | D3.2          |
| 1.12  | 1    | 1.820.773.83 | Tape lifter control board   |               |
| 1.13  | 3    | 21.51.8354   | Oval head allen screw       | M3x6          |
| 1.14  | 3    | 24.16.1030   | Fin washer                  | D3.2/5.5      |



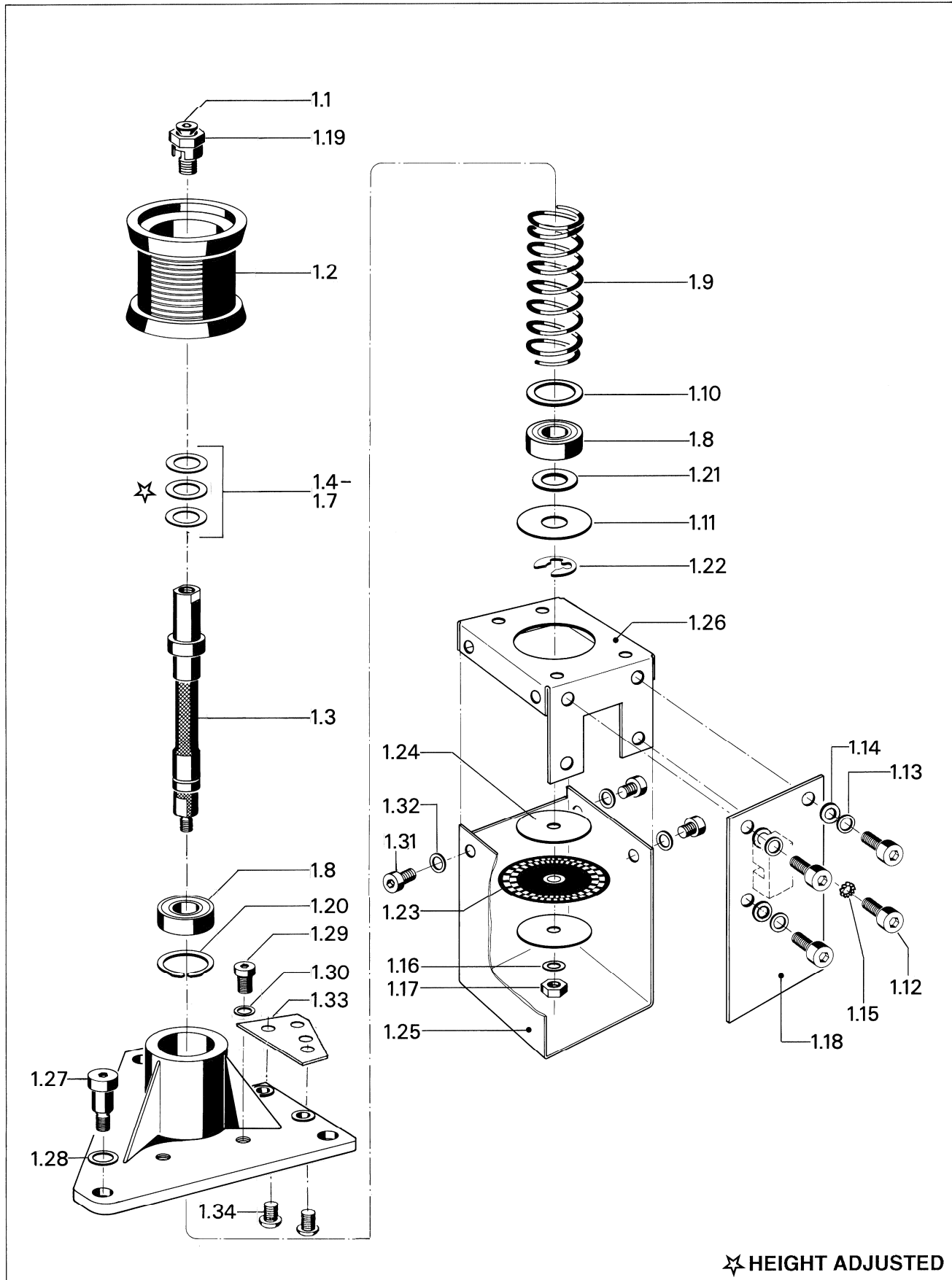
5.6 Lifter Assembly Left



## Lifter Assembly Left

| Index | Qty. | Order No.    | Part Name                   | Specification |
|-------|------|--------------|-----------------------------|---------------|
|       |      | 1.862.140.00 | Tape guide assembly left    |               |
| 1.1   | 1    | 21.53.0456   | Allen screw                 | M4x10         |
| 1.2   | 2    | 1.710.165.07 | Ring                        |               |
| 1.3   | 2    | 21.53.0472   | Allen screw                 | M4x16         |
| 1.4   | 2    | 24.16.1040   | Fin washer                  | D4.3/7        |
| 1.5   | 1    | 1.820.142.00 | Synchronous motor, complete |               |
| 1.6   | 1    | 24.16.3060   | Circlip                     |               |
| 1.7   | 1    | 1.862.140.02 | Brass flange                | D6.0          |
| 1.8   | 1    | 1.862.140.03 | Driving cam left            |               |
| 1.9   | 1    | 1.862.140.01 | Control cam left            |               |
| 1.10  | 4    | 21.53.9354   | Allen screw                 | M3x6          |
| 1.11  | 1    | 24.16.2030   | Serrated washer             | D3.2          |
| 1.12  | 1    | 1.820.773.83 | Tape lifter control board   |               |
| 1.13  | 3    | 21.51.8354   | Oval head allen screw       | M3x6          |
| 1.14  | 3    | 24.16.1030   | Fin washer                  | D3.2/5.5      |

5.7 Tacho Roller Assembly



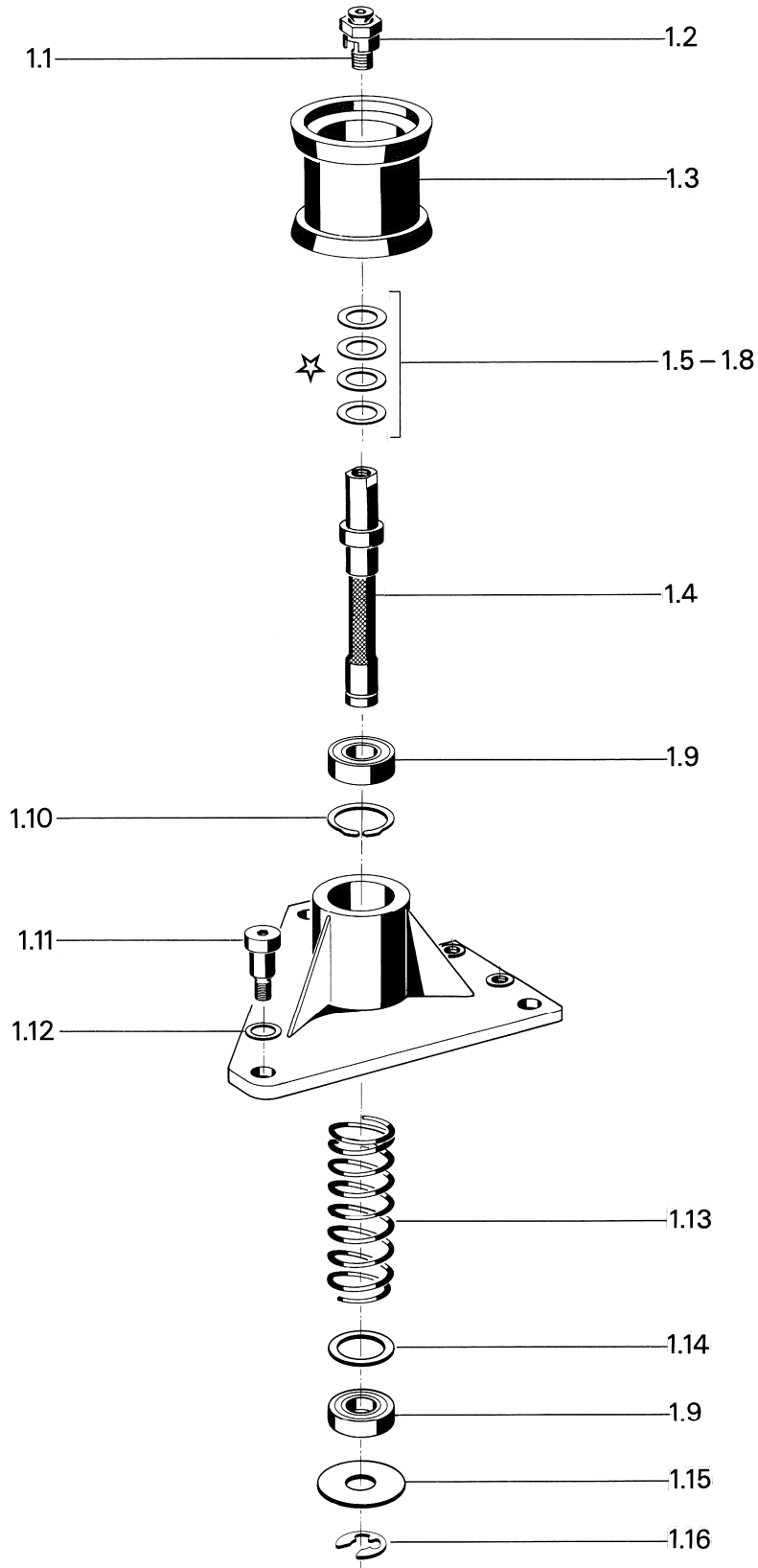
## Tacho Roller Assembly

| Index | Qty. | Order No.    | Part Name                 | Specification   |
|-------|------|--------------|---------------------------|-----------------|
|       |      | 1.863.185.00 | Tacho roller assembly     |                 |
| 1.1   | 1    | 1.010.036.21 | Countersunk screw special | M4x14           |
| 1.2   | 1    | 1.820.410.11 | Tacho roller              | 0.52            |
| 1.3   | 1    | 1.820.180.02 | Tacho roller shaft        |                 |
| 1.4   | 1    | 1.010.058.23 | Spacer                    | D8.1/12x0.1     |
| 1.5   | 1    | 1.010.059.23 | Spacer                    | D8.1/12x0.12    |
| 1.6   | 1    | 1.010.060.23 | Spacer                    | D8.1/12x0.15    |
| 1.7   | 1    | 1.010.061.23 | Spacer                    | D8.1/12x0.18    |
| 1.8   | 2    | 41.04.0110   | Ball bearing              | D8/16x6         |
| 1.9   | 1    | 1.010.201.37 | Spring form D             | D15.5x49        |
| 1.10  | 1    | 1.010.066.23 | Spacer                    | D12.1/15.8x0.5  |
| 1.11  | 1    | 1.010.085.23 | Washer                    | D8.1/19.0x0.5MS |
| 1.12  | 4    | 21.53.0353   | Allen screw               | M3x5            |
| 1.13  | 3    | 24.16.1030   | Fin washer                | D3.2/5.5        |
| 1.14  | 3    | 23.01.1032   | Washer                    | D3.2/6x0.5      |
| 1.15  | 1    | 24.16.2030   | Serrated washer           | D3.2            |
| 1.16  | 1    | 24.16.1040   | Fin washer                | D4.3/7          |
| 1.17  | 1    | 22.01.8040   | Nut                       | 0.8D,M4         |
| 1.18  | 1    | 1.820.770.82 | Move sensor board         |                 |
| 1.19  | 1    | 1.820.400.06 | Roller driver             |                 |
| 1.20  | 1    | 24.99.0131   | Circlip                   | D16             |
| 1.21  | 1    | 1.062.210.11 | Spacer                    | D8.2/12x0.5     |
| 1.22  | 1    | 24.16.3060   | Circlip                   | D6.0            |
| 1.23  | 1    | 1.820.180.04 | Tacho disk                |                 |
| 1.24  | 2    | 1.010.084.23 | Washer                    | D4.1/20.0x1.5AL |
| 1.25  | 1    | 1.820.180.05 | Cover tacho disk          |                 |
| 1.26  | 1    | 1.820.180.03 | Sensor board holder       |                 |
| 1.27  | 3    | 1.010.035.21 | Precision screw           | M4x16           |
| 1.28  | 3    | 24.16.1050   | Fin washer                | D5.3/9          |
| 1.29  | 4    | 21.53.0356   | Allen screw               | M3x10           |
| 1.30  | 4    | 24.16.1030   | Fin washer                | D3.2/5.5        |
| 1.31  | 4    | 21.53.0353   | Allen screw               | M3x5            |
| 1.32  | 4    | 24.16.1030   | Fin washer                | D3.2/5.5        |
| 1.33  | 1    | 1.820.170.04 | Support plate             |                 |
| 1.34  | 2    | 21.53.9354   | Oval head allen screw     | M3x8            |

**Important:**

Please note that after partial disassembly of this unit the height of the guide roller must be checked and readjusted!

5.8 Prestabilizer Assembly



★ HEIGHT ADJUSTED

Prestabilizer Assembly

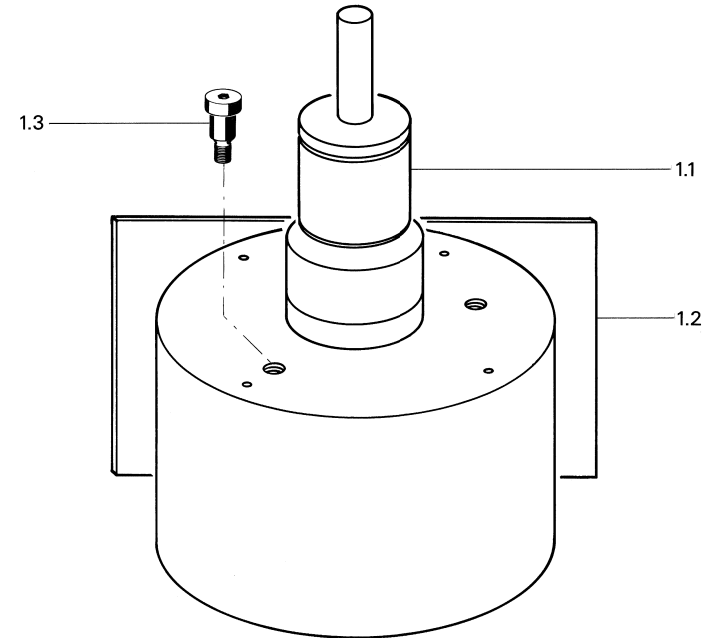
| Index | Qty. | Order No.    | Part Name                     | Specification   |
|-------|------|--------------|-------------------------------|-----------------|
|       |      | 1.863.175.00 | Prestabilizer assembly compl. |                 |
| 1.1   | 1    | 1.010.036.21 | Countersunk screw special     | M4x14           |
| 1.2   | 1    | 1.820.400.06 | Roller driver                 |                 |
| 1.3   | 1    | 1.820.410.12 | Prestabilizer roller          |                 |
| 1.4   | 1    | 1.820.150.11 | Prestabilizer roller shaft    |                 |
| 1.5   | 1    | 1.010.058.23 | Spacer                        | D8.1/12x0.1     |
| 1.6   | 1    | 1.010.059.23 | Spacer                        | D8.1/12x0.12    |
| 1.7   | 1    | 1.010.060.23 | Spacer                        | D8.1/12x0.15    |
| 1.8   | 1    | 1.010.061.23 | Spacer                        | D8.1/12x0.18    |
| 1.9   | 2    | 41.04.0110   | Ball bearing                  | D8/16x6         |
| 1.10  | 1    | 24.99.0131   | Circlip                       | D16             |
| 1.11  | 3    | 1.010.035.21 | Precision screw               | M4x16           |
| 1.12  | 2    | 24.16.1050   | Fin washer                    | D5.3/9          |
| 1.13  | 1    | 1.010.201.37 | Spring form D                 | D15.5x49        |
| 1.14  | 1    | 1.062.210.11 | Spacer                        | D8.2/12x0.5     |
| 1.15  | 1    | 1.010.085.23 | Washer                        | D8.1/19.0x0.5MS |
| 1.16  | 1    | 24.16.3060   | Circlip                       | 6.0             |



**Important:**

Please note that after partial disassembly of this unit the height of the guide roller must be checked and readjusted!

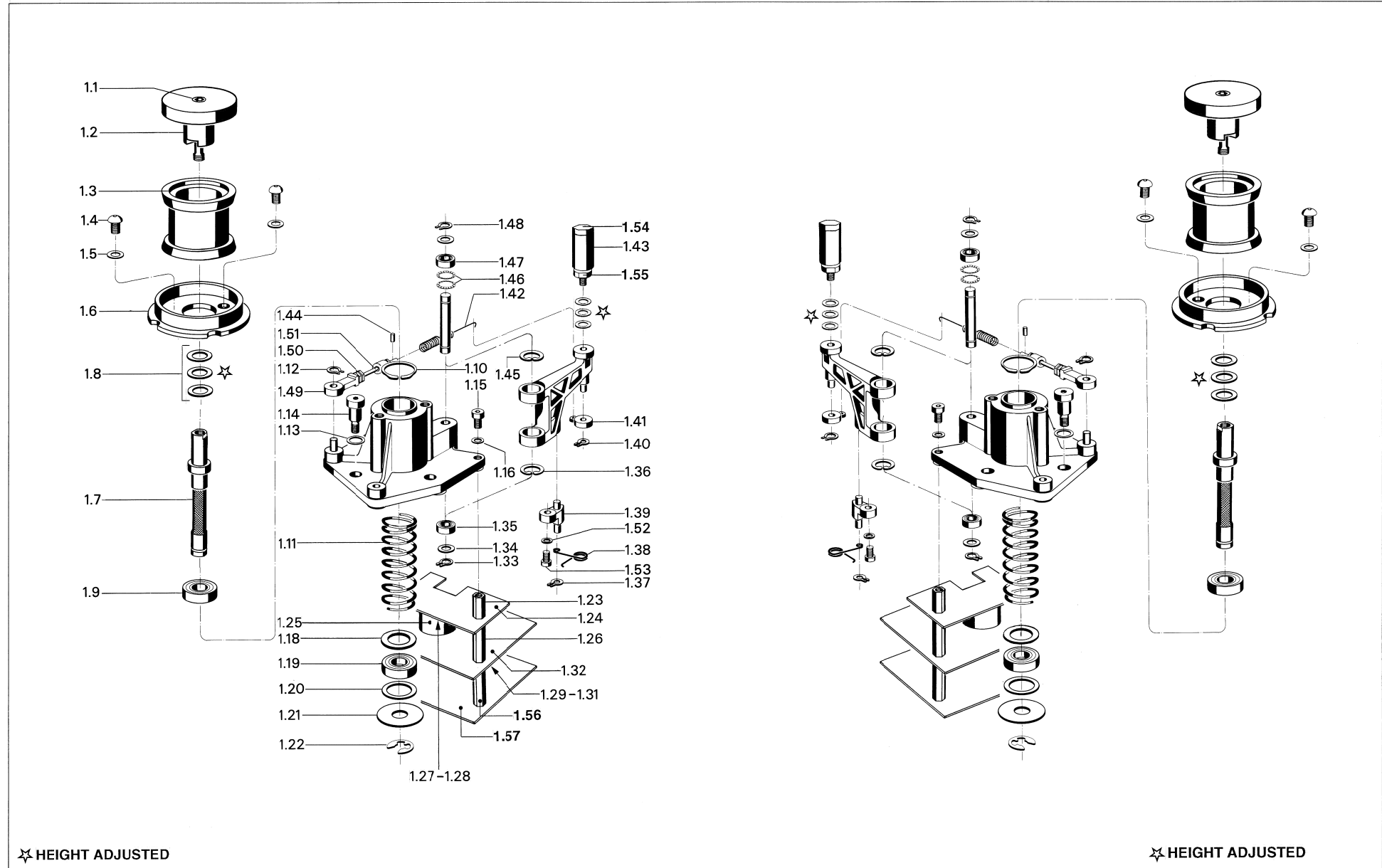
5.9 Capstan Motor



| Index | Qty. | Order No.    | Part Name   | Specification |
|-------|------|--------------|---|---------------|
|       |      | 1.021.624.00 | Capstan motor complete equipped with ball bearings. |               |
| 1.1   | 1    | 1.021.621.09 | Bearing cover                                       |               |
| 1.2   | 1    | 1.021.695.86 | Tacho sensor board                                  |               |
| 1.3   | 3    | 1.010.035.21 | Spec. cyl. screw to mount motor to chassis          | M4x16         |

**Attention:** This motor contains permanently lubrication ball bearings.  
**DO NOT APPLY OIL!** Damage to the ball bearings may occur!  
 This version of motor is marked with a sticker label.

5.10 Tape Tension Assembly Left / Right



☆ HEIGHT ADJUSTED

☆ HEIGHT ADJUSTED

Tape Tension Assembly Left / Right

| Index | Qty. | Order No.    | Part Name                        | Specification  |
|-------|------|--------------|----------------------------------|----------------|
|       |      | 1.863.156.00 | Tape tension assembly right      |                |
|       |      | 1.863.155.00 | Tape tension assembly left       |                |
| 1.1   | 1    | 1.010.040.21 | Counter sunk allen screw special | M4x20          |
| 1.2   | 1    | 1.820.410.05 | Guide roller cover               |                |
| 1.3   | 1    | 1.820.410.10 | Guide roller steel               |                |
| 1.4   | 2    | 21.51.8354   | Oval head allen screw            | Nl,M3x6        |
| 1.5   | 2    | 24.16.1030   | Fin washer                       | D3.2/5.5       |
| 1.6   | 1    | 1.820.150.12 | Plate below guide roller         |                |
| 1.7   | 1    | 1.820.150.11 | Shaft                            |                |
| 1.8   | 1    | 1.010.058.23 | Shim                             | D8.1/12x0.1    |
|       | 1    | 1.010.059.23 | Shim                             | D8.1/12x0.15   |
|       | 1    | 1.010.060.23 | Shim                             | D8.1/12x0.18   |
|       | 1    | 1.010.061.23 | Shim                             | D8.1/12x0.2    |
| 1.9   | 1    | 41.04.0110   | Ball bearing                     |                |
| 1.10  | 1    | 24.99.0131   | Circlip                          | D16.0mm        |
| 1.11  | 1    | 1.010.201.37 | Spring                           |                |
| 1.12  | 1    | 24.99.0129   | Circlip                          | D3.0mm         |
| 1.13  | 3    | 24.16.1040   | Fin washer                       | D4.3/7.0       |
| 1.14  | 3    | 1.010.035.21 | Cyl. screw special               | M4x16          |
| 1.15  | 2    | 21.53.0356   | Allen screw                      | M3x10          |
| 1.16  | 2    | 24.16.1030   | Fin washer                       | D3.2/5.5       |
| 1.18  | 1    | 1.010.066.23 | Shim                             | D12.1/15.8x0.5 |
| 1.19  | 1    | 41.04.0110   | Ball bearing                     |                |
| 1.20  | 1    | 1.062.210.11 | Shim                             | D8.2/2x0.5     |
| 1.21  | 1    | 1.010.085.23 | Shim                             | D8.1/19x0.5    |
| 1.22  | 1    | 24.16.3060   | Circlip                          | D6.0mm         |
| 1.23  | 2    | 1.010.068.27 | Hexagon bolt                     | M3x14          |
| 1.24  | 1    | 1.820.150.10 | Fixing plate                     |                |
| 1.25  | 1    | 1.820.153.00 | Hall potentiometer               |                |
| 1.26  | 2    | 1.080.720.01 | Hexagon bolt                     | M3/M3x26       |
| 1.27  | 2    | 24.16.1030   | Fin washer                       | D3.2/5.5       |
| 1.28  | 2    | 21.53.0353   | Allen screw                      | M3x5           |
| 1.29  | 2    | 23.01.1032   | Washer                           | D3.2/6x0.5     |
| 1.30  | 2    | 24.16.1030   | Fin washer                       | D3.2/5.5       |
| 1.31  | 2    | 21.53.0356   | Allen screw                      | M3x8           |
| 1.32  | 1    | 1.863.772.00 | Tape tension board               |                |
| 1.33  | 1    | 24.16.5040   | Circlip                          | D4.0mm         |
| 1.34  | 1    | 1.062.210.09 | Shim                             | D4.3/7.5x0.2   |
| 1.35  | 1    | 41.99.0104   | Ball bearing                     |                |
| 1.36  | 1    | 24.16.4100   | Circlip                          | D10.0mm        |
| 1.37  | 1    | 24.99.0122   | Circlip                          | D2.5mm         |
| 1.38  | 1    | 1.820.150.17 | Spring special left              |                |
|       | 1    | 1.820.151.17 | Spring special right             |                |
| 1.39  | 1    | 1.820.150.16 | Cam                              |                |
| 1.40  | 1    | 24.99.0129   | Circlip                          | D3.0mm         |

| Index | Qty. | Order No.    | Part Name                  | Specification |
|-------|------|--------------|----------------------------|---------------|
| 1.41  | 1    | 1.862.150.03 | Hook                       |               |
| 1.42  | 1    | 1.010.137.37 | Spring                     |               |
| 1.43  | 1    | 1.862.150.06 | Sapphire guide             |               |
| 1.44  | 1    | 25.06.6054   | Notched pin                |               |
| 1.45  | 1    | 24.16.4100   | Circlip                    | D10.0mm       |
| 1.46  | 2    | 37.02.0201   | Cup spring                 |               |
| 1.47  | 1    | 41.99.0104   | Ball bearing               |               |
| 1.48  | 1    | 24.16.5040   | Circlip                    | D4.0mm        |
| 1.49  | 1    | 1.820.150.06 | Hook                       | 0.8D          |
| 1.50  | 1    | 22.01.8030   | Nut                        | M3            |
| 1.51  | 1    | 1.820.154.00 | Threaded pin compl.        |               |
| 1.52  | 1    | 24.16.1030   | Fin washer                 | D3.2/5.5      |
| 1.53  | 1    | 21.53.0355   | Allen screw                | M3x8          |
| 1.54  | 1    | 1.862.150.02 | Special screw              |               |
| 1.55  | 1    | 1.862.150.01 | bolt                       |               |
| 1.56  | 1    | 1.010.146.27 | Hexagon bolt               |               |
| 1.57  | 1    | 1.863.773.00 | Tape Deck Distribution PCB |               |

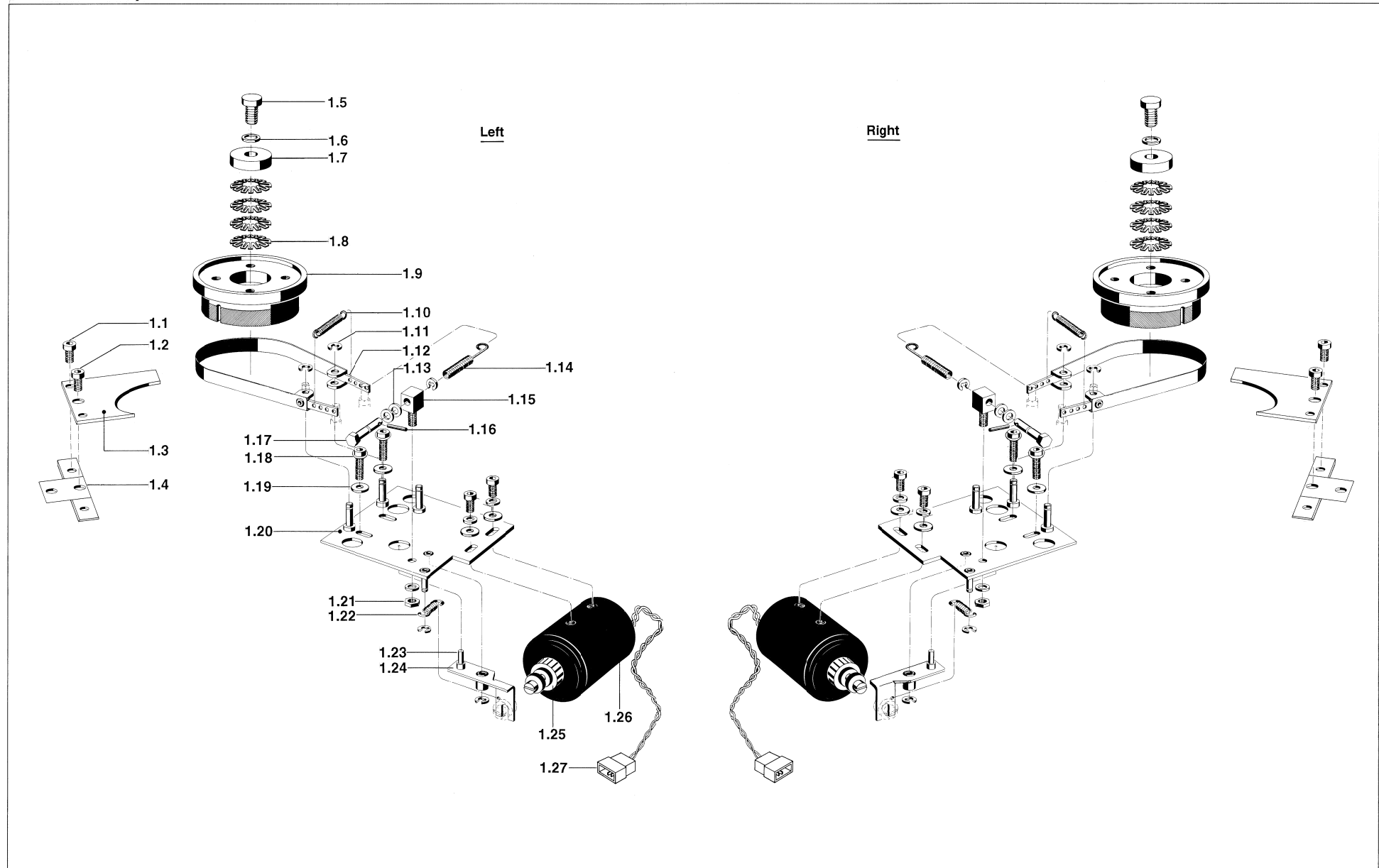


**Important:**

Please note that after partial disassembly of this unit the height of the guide roller must be checked and readjusted!



5.11 Brake Assembly

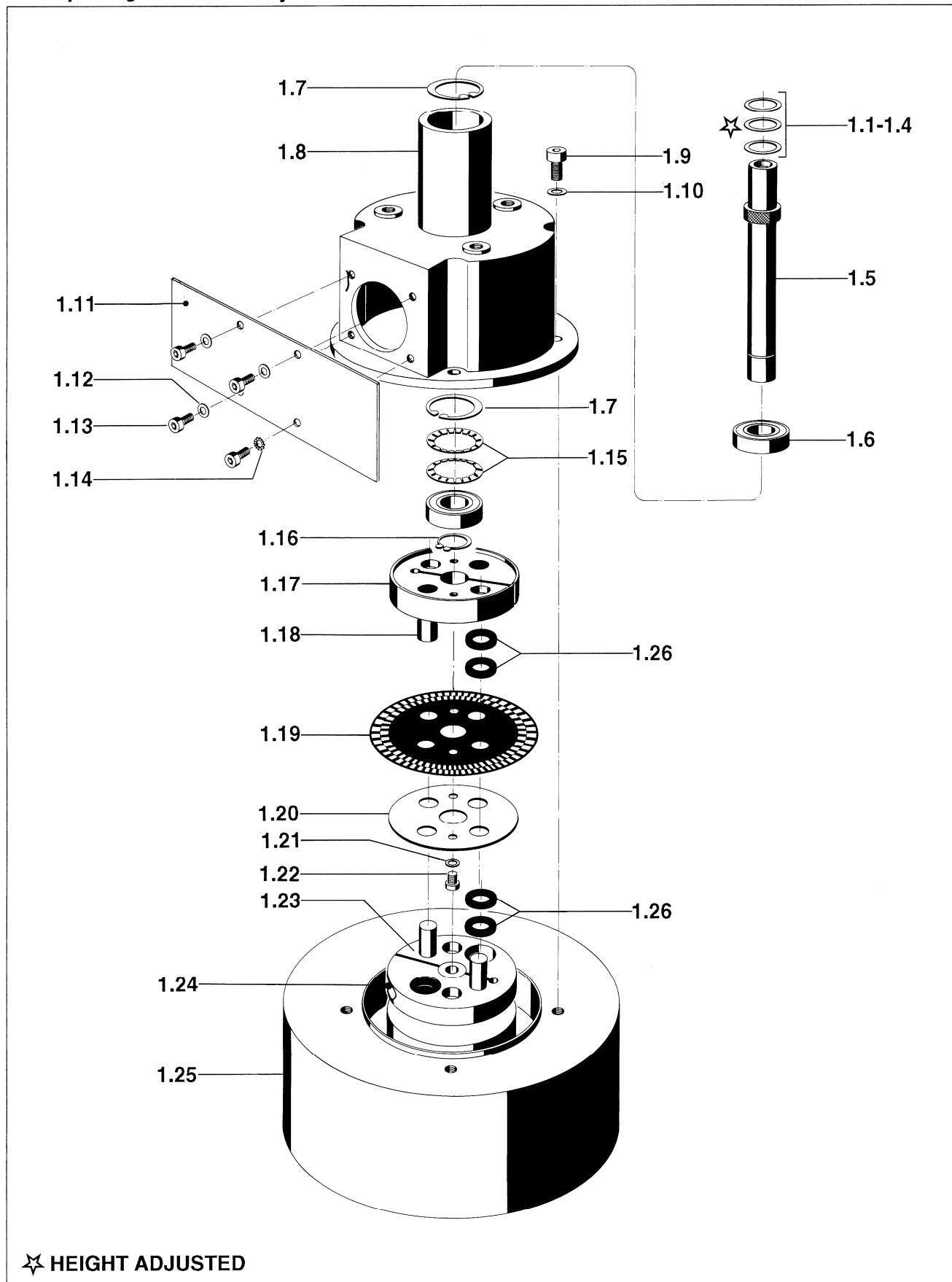


## Brake Assembly

| Index | Qty. | Order No.    | Part Name             | Specification |
|-------|------|--------------|-----------------------|---------------|
|       |      | 1.080.230.00 | Brake assembly compl. | left          |
|       |      | 1.080.240.00 | Brake assembly compl. | right         |
| 1.1   | 4    | 21.53.0455   | Allen screw           | M4x8          |
| 1.2   |      | 21.53.0465   | Allen screw           |               |
| *1.3  | 1    | 1.820.090.02 | Brake band guide      |               |
| *1.4  | 1    | 1.820.090.01 | Mounting bracket      |               |
| *1.5  | 1    | 21.53.0521   | Allen screw           | M5x14         |
| *1.6  | 1    | 24.16.1050   | Fin washer            |               |
| *1.7  | 1    | 1.820.090.03 | Pressure shim         |               |
| *1.8  | 4    | 24.16.6120   | Cup spring serrated   |               |
| *1.9  | 1    | 1.820.201.00 | Brake drum compl.     |               |
| *1.10 | 1    | 1.010.130.37 | Spring                |               |
| 1.11  | 3    | 24.16.3032   | Circlip               | D3.2mm        |
| *1.12 | 1    | 1.080.238.00 | Brake band compl.     |               |
| 1.13  | 2    | 37.01.0102   | Cup spring            |               |
| *1.14 | 1    | 1.080.230.07 | Spring strong         |               |
| 1.15  | 1    | 1.080.230.01 | Support               |               |
| 1.16  | 1    | 25.16.2106   | Spring cotter         |               |
| 1.17  | 1    | 1.080.230.02 | Adjusting screw       |               |
| *1.18 | 2    | 21.53.0457   | Allen screw           | M4x12         |
| 1.19  | 4    | 23.01.1043   | Washer                |               |
| 1.20  | 1    | 1.080.233.00 | Brake chassis         | left          |
|       | 1    | 1.080.243.00 | Brake chassis         | right         |
| 1.21  | 1    | 22.01.8040   | Nut                   | 0.8D/M4       |
| 1.22  | 1    | 1.080.112.02 | Spring                |               |
| 1.23  | 1    | 1.080.120.15 | Rubber dumping hose   |               |
| 1.24  | 1    | 1.080.236.00 | Brake lever compl.    |               |
| 1.25  | 1    | 1.014.753.00 | Armature compl.       |               |
| 1.26  | 1    | 1.014.750.00 | Solenoid              |               |
| 1.27  | 1    | 54.02.0400   | Molex Connector       |               |

\* These parts are not included in the Brake assembly compl. 1.080.230.00 and 1.080.240.00

5.12 Spooling Motor Assembly



☆ HEIGHT ADJUSTED

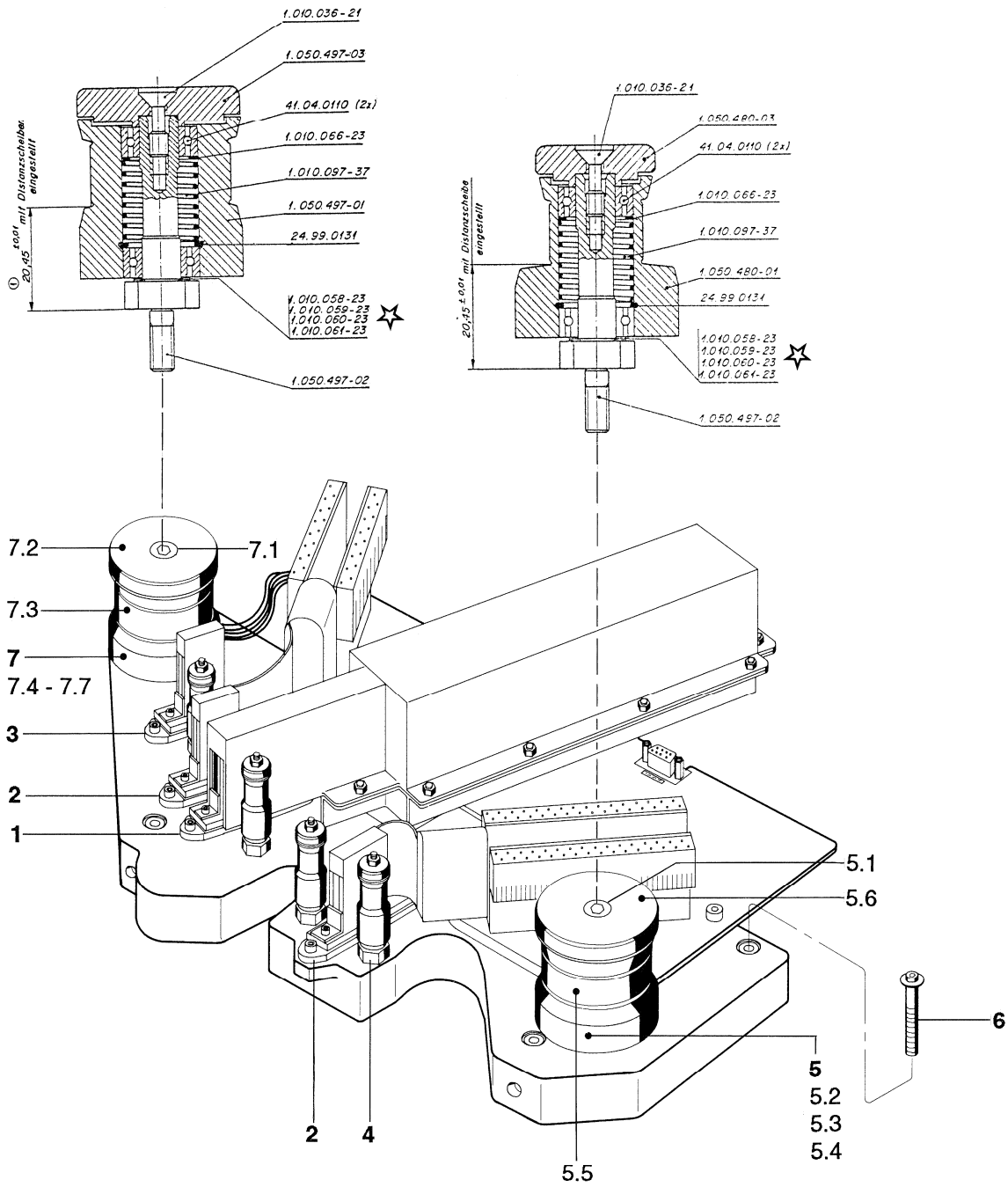
## Spooling Motor Assembly

| Index | Qty. | Order No.    | Part Name                   | Specification  |
|-------|------|--------------|-----------------------------|----------------|
|       |      | 1.863.190.00 | Spooling motor assembly     |                |
| 1.1   | 1    | 1.010.062.23 | Spacer                      | D12.1/15.8x0.1 |
| 1.2   | 1    | 1.010.063.23 | Spacer                      | 0.12           |
| 1.3   | 1    | 1.010.064.23 | Spacer                      | 0.15           |
| 1.4   | 1    | 1.010.065.23 | Spacer                      | 0.18           |
| 1.5   | 1    | 1.820.190.03 | Spooling motor shaft        |                |
| 1.6   | 2    | 41.99.0113   | Ball bearing                | D12/28x8       |
| 1.7   | 2    | 24.16.4280   | Circlip                     | D28            |
| 1.8   | 1    | 1.863.190.01 | Bearing case spooling motor |                |
| 1.9   | 4    | 21.53.0622   | Allen screw                 | M5x12          |
| 1.10  | 4    | 24.16.1080   | Fin washer                  |                |
| 1.11  | 1    | 1.820.771.84 | Motor Tacho Board           |                |
| 1.12  | 2    | 24.16.2030   | Fin washer                  |                |
| 1.13  | 4    | 21.53.9354   | Allen screw                 | M3x6           |
| 1.14  | 2    | 24.16.2030   | Serrated washer             |                |
| 1.15  | 2    | 37.02.0209   | Cup spring                  |                |
| 1.16  | 1    | 24.16.5120   | Circlip                     | D12            |
| 1.17  | 1    | 1.820.190.04 | Upper part clutch           |                |
| 1.18  | 4    | 25.06.8513   | Stud                        | D6x24          |
| 1.19  | 1    | 1.820.190.06 | Tacho disk                  |                |
| 1.20  | 1    | 1.820.190.07 | Support for tacho disk      |                |
| 1.21  | 2    | 24.16.2030   | Fin washer                  |                |
| 1.22  | 2    | 21.53.0354   | Allen screw                 | M3x6           |
| 1.23  | 1    | 1.863.190.03 | Lower part clutch           |                |
| 1.24  | 2    | 21.54.0522   | Allen screw                 | M5x16          |
| 1.25  | 1    | 1.820.196.00 | Motor compl.                |                |
| 1.26  | 8    | 31.05.0002   | Ring                        | D6x3.5         |

**Important:**

Please note that after partial disassembly of this unit the height of the tape reel must be checked and readjusted!

5.13 Head Block



Avoid touching the heads with any hard item!  
 For cleaning the heads, use Isopropanol only (Order No. 10.496.021.00).  
 Moisten soft cloth (lint free) and wipe in the tape travel direction, forward and backwards (never up and down).

☆ HEIGHT ADJUSTED

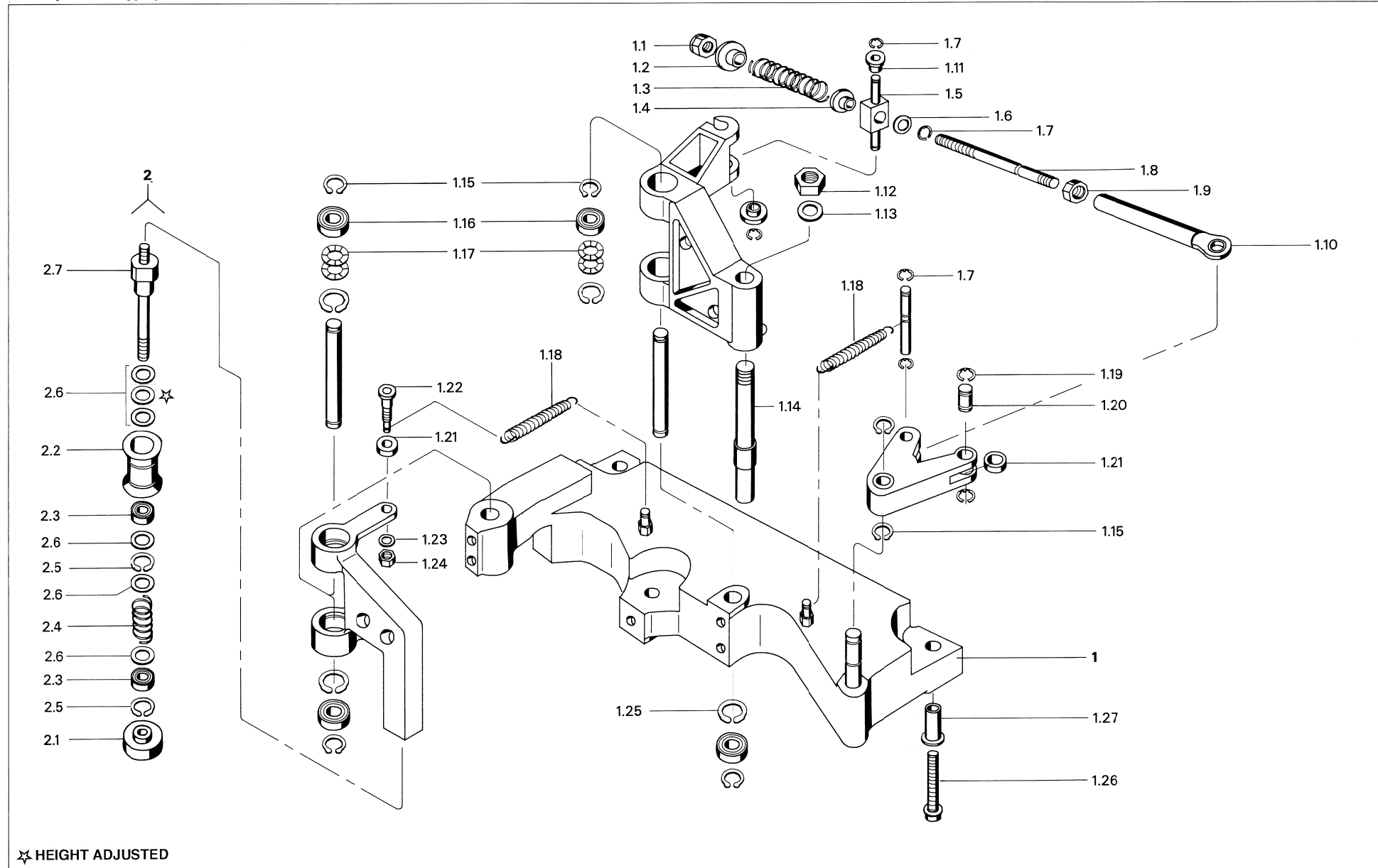
## Head Block

| Index | Qty.         | Order No.    | Part Name                     | Specification  |
|-------|--------------|--------------|-------------------------------|----------------|
| 1     |              | 1.050.405.00 | Head Block complete 48CH      |                |
|       |              | 1.050.406.00 | Head Block complete 24CH      |                |
|       |              | 1.050.491.00 | Reproduce Head complete 48CH  |                |
|       |              | 1.050.493.00 | Reproduce Head complete 24CH  |                |
| 2     | 1<br>or<br>2 | 1.050.490.81 | Record Head complete 48CH     |                |
|       |              | 1.050.492.81 | Record Head complete 24CH     |                |
|       |              | 1.050.475.00 | Dummy Head                    |                |
| 3     |              | 1.050.494.00 | Erase Head complete           |                |
| 4     | 4            | 1.050.498.00 | Tape guide complete           |                |
| 5     | 2            | 1.050.480.00 | Guide roller complete         |                |
| 5.1   |              | 1.010.036.21 | Special screw                 | D16x1.0        |
| 5.2   |              | 24.99.0131   | Circlip                       |                |
| 5.3   |              | 41.04.0110   | Ball bearing                  |                |
| 5.4   |              | 1.010.097.37 | Spring                        |                |
| 5.5   |              | 1.050.480.01 | Guide roller                  |                |
| 5.6   |              | 1.050.480.03 | Roller cap                    |                |
| 6     | 5            | 21.53.9461   | Hexagon socket head cap screw |                |
| 7     | 1            | 1.050.497.00 | Guide roller                  | compl.         |
| 7.1   | 1            | 1.010.036.21 | Special screw                 |                |
| 7.2   | 1            | 1.050.497.03 | Roller cap                    |                |
| 7.3   | 1            | 1.050.497.01 | Guide roller                  |                |
| 7.4   | 1            | 24.99.0131   | Circlip                       | D16x1.0        |
| 7.5   | 2            | 41.04.0110   | Ball bearing                  |                |
| 7.6   | 1            | 1.010.097.37 | Spring                        |                |
| 7.7   | 1            | 1.010.066.23 | Waster                        | D12.1/15.8x0.5 |

**Important:**

Please note that after partial disassembly of this unit the height of the guide roller must be checked and readjusted!

5.14 Tape Guide Aggregate



## Tape Guide Aggregate

| Index | Qty. | Order No.    | Part Name                | Specification   |
|-------|------|--------------|--------------------------|-----------------|
| 1     |      | 1.863.120.00 | Tape guide aggregate     |                 |
| 1.1   | 1    | 22.99.0116   | Hexagon self locking nut | M4              |
| 1.2   | 1    | 1.820.120.25 | Sleeve Pressing spring   |                 |
| 1.3   | 1    | 1.010.046.37 | Pressure spring          | D9x28.5         |
| 1.4   | 1    | 1.820.120.33 | Bearing sleeve           |                 |
| 1.5   | 1    | 1.820.120.24 | Bearing bolt pressure    |                 |
| 1.6   | 1    | 23.01.2043   | Washer                   | D4.3/9x0.8      |
| 1.7   | 5    | 24.16.3032   | Circlip 3.2              |                 |
| 1.8   | 1    | 1.820.120.26 | Thread bolt pressure     |                 |
| 1.9   | 2    | 22.01.8040   | Nut                      | 0.8D,M4         |
| 1.10  | 1    | 1.862.120.07 | Link pressure            |                 |
| 1.11  | 2    | 1.820.120.23 | Bearing sleeve pressure  |                 |
| 1.12  | 1    | 22.01.8060   | Nut                      | 0.8D,M6         |
| 1.13  | 1    | 24.16.1060   | Lock washer              | D4.3/7          |
| 1.14  | 1    | 1.820.120.27 | Axle pressure roller     |                 |
| 1.15  | 6    | 24.16.5080   | Circlip                  | D8              |
| 1.16  | 4    | 41.04.0110   | Ball bearing             | D8/16x6         |
| 1.17  | 4    | 37.02.0203   | Spring washer            | D8.2/15.8x0.25  |
| 1.18  | 2    | 1.010.209.37 | Tension spring           | 6.7x28.4        |
| 1.19  | 2    | 24.16.3040   | Circlip 4                |                 |
| 1.20  | 1    | 1.820.120.21 | Bolt pressure            |                 |
| 1.21  | 2    | 1.820.120.19 | Roller curved washer     |                 |
| 1.22  | 1    | 1.820.120.18 | Bearing bolt link        |                 |
| 1.23  | 4    | 24.16.1040   | Lock washer              | D4.3/7          |
| 1.24  | 2    | 22.01.8040   | Nut                      | 0.8D,M4         |
| 1.25  | 4    | 24.99.0131   | Inner circlip            | D16x1           |
| 1.26  | 3    | 21.53.9464   | Z-Screw                  | IS,M.SICH,M4x30 |
| 1.27  | 3    | 1.820.090.08 | Centering sleeve         |                 |
| 2     |      | 1.862.121.00 | Lifter roller complete   |                 |
| 2.1   | 1    | 1.862.121.03 | Roller cover             |                 |
| 2.2   | 1    | 1.862.121.01 | Lifter roller            |                 |
| 2.3   | 2    | 41.99.0104   | Ball bearing             | D4/10x4         |
| 2.4   | 1    | 1.077.360.02 | Pressure spring          |                 |
| 2.5   | 2    | 24.16.4100   | Retaining ring           | D10             |
| 2.6   |      | 1.062.210.08 | Distance washer          | D4.3/7.5x0.1    |
| 2.6.1 |      | 1.010.053.23 | Distance washer          | D4.3/7.5x0.12   |
| 2.6.2 |      | 1.067.180.14 | Distance washer          | D4.3/7.5x0.15   |
| 2.6.3 |      | 1.010.075.23 | Distance washer          | D9.8/6.1x0.2    |
| 2.7   |      | 1.862.121.02 | Axle                     |                 |

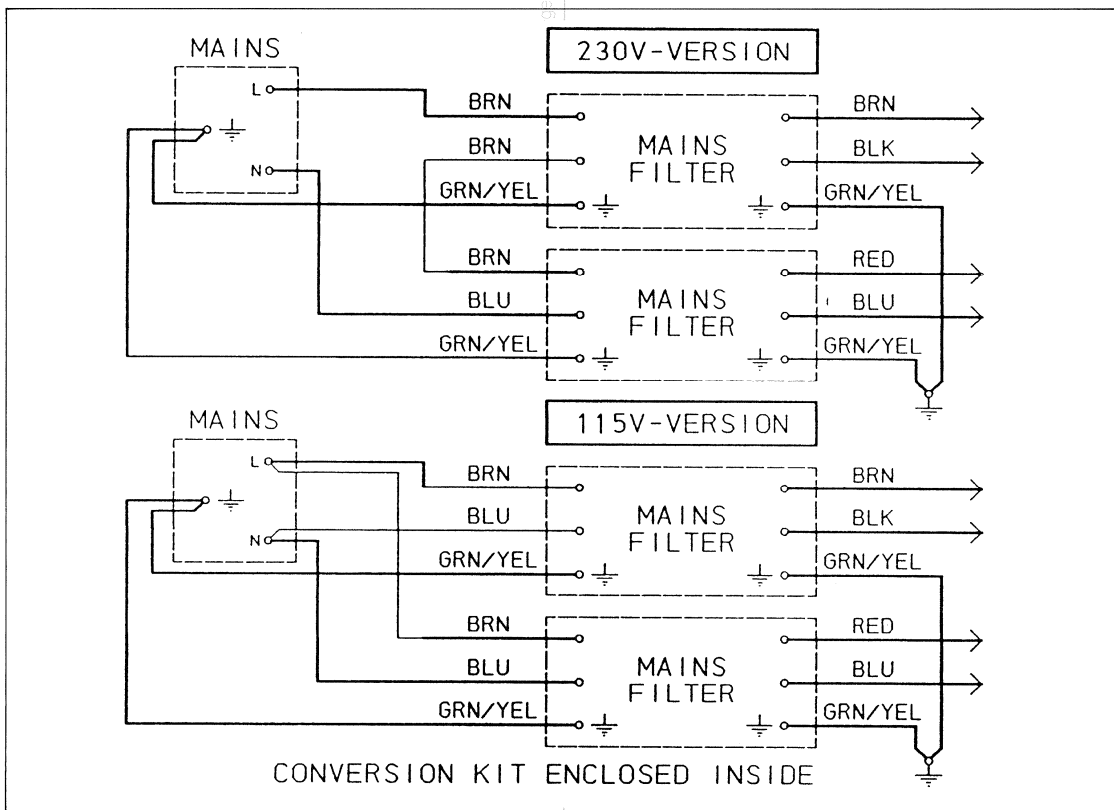
**Important:**

Please note that after partial disassembly of this unit the height of the guide roller must be checked and readjusted!



5.15 Labels

|   |                       |   |                        |                        |               |   |                            |                           |
|---|-----------------------|---|------------------------|------------------------|---------------|---|----------------------------|---------------------------|
| J9<br>DISTRIBUTION BOARD                              | J8<br>STABILIZER +18V | J7<br>STABILIZER -18V                                   | J6<br>STABILIZER +5V L | J5<br>STABILIZER +5V U | J4<br>RESERVE | J3<br>DISTRIBUTION BOARD                                    | J2<br>SPOOLING MOTOR RIGHT | J1<br>SPOOLING MOTOR LEFT |
| { F8 F7 }<br>T6.25A UL/CSA<br>+18V -18V<br>STABILIZER |                       | { F6 F5 }<br>T6.25A UL/CSA<br>+5V L +5V U<br>STABILIZER |                        | ALL FUSES SLOW BLOW    |               | { F2 F1 }<br>T16A H 250V<br>DISTR. BOARD SPOOLING<br>MOTORS |                            | AC POWER                  |
| { F8 F7 }<br>T6.25A UL/CSA<br>+18V -18V<br>STABILIZER |                       | { F6 F5 }<br>T6.25A UL/CSA<br>+5V L +5V U<br>STABILIZER |                        | ALL FUSES SLOW BLOW    |               | { F2 F1 }<br>T16A H 250V<br>DISTR. BOARD SPOOLING<br>MOTORS |                            | AC POWER                  |
| Power   | 115V~                 | 115V~   | 230V~                  | 230V~                  |               |   |                            |                           |



Power Supply Label  
 Order No. 1.863.620.12

Labels

|  |                                     |                                  |                                      |                                  |                                      |                                  |                                      |                                  |                                      |                                  |                                      |                                   |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                     |
|--|-------------------------------------|----------------------------------|--------------------------------------|----------------------------------|--------------------------------------|----------------------------------|--------------------------------------|----------------------------------|--------------------------------------|----------------------------------|--------------------------------------|-----------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|------------------------------------|--|-------------------------------------|
| BEFORE REMOVING OR INSERTING CARDS, MACHINE MUST BE SWITCHED OFF MINIMUM 5 SEC |                                     |                                  |                                      |                                  |                                      |                                  |                                      |                                  |                                      |                                  |                                      |                                   |  |                                    | BEFORE REMOVING OR INSERTING CARDS, MACHINE MUST BE SWITCHED OFF MINIMUM 5 SEC |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                    |  |                                     |
| 1.863.713<br>REC MOD<br>CH 1-8   | 1.862.716<br>REC CURRENT<br>CH 9-16 | 1.863.713<br>REC MOD<br>CH 17-24 | 1.862.716<br>REC CURRENT<br>CH 25-32 | 1.863.713<br>REC MOD<br>CH 33-40 | 1.862.716<br>REC CURRENT<br>CH 41-48 | 1.863.713<br>REC MOD<br>CH 49-56 | 1.862.716<br>REC CURRENT<br>CH 57-64 | 1.863.713<br>REC MOD<br>CH 65-72 | 1.862.716<br>REC CURRENT<br>CH 73-80 | 1.863.713<br>REC MOD<br>CH 81-88 | 1.862.716<br>REC CURRENT<br>CH 89-96 | 1.863.713<br>REC MOD<br>CH 97-104 | 1.862.716<br>REC CURRENT<br>CH 105-112 | 1.863.713<br>REC MOD<br>CH 113-120 | 1.862.716<br>REC CURRENT<br>CH 121-128   | 1.863.713<br>REC MOD<br>CH 129-136 | 1.862.716<br>REC CURRENT<br>CH 137-144 | 1.863.713<br>REC MOD<br>CH 145-152 | 1.862.716<br>REC CURRENT<br>CH 153-160 | 1.863.713<br>REC MOD<br>CH 161-168 | 1.862.716<br>REC CURRENT<br>CH 169-176 | 1.863.713<br>REC MOD<br>CH 177-184 | 1.862.716<br>REC CURRENT<br>CH 185-192 | 1.863.713<br>REC MOD<br>CH 193-200 | 1.862.716<br>REC CURRENT<br>CH 201-208 | 1.863.713<br>REC MOD<br>CH 209-216 | 1.862.716<br>REC CURRENT<br>CH 217-224 | 1.863.713<br>REC MOD<br>CH 225-232 | 1.862.716<br>REC CURRENT<br>CH 233-240 | 1.863.713<br>REC MOD<br>CH 241-248 | 1.862.716<br>REC CURRENT<br>CH 249-256 | 1.863.713<br>REC MOD<br>CH 257-264 | 1.862.716<br>REC CURRENT<br>CH 265-272 | 1.863.713<br>REC MOD<br>CH 273-280 | 1.862.716<br>REC CURRENT<br>CH 281-288 | 1.863.713<br>REC MOD<br>CH 289-296 | 1.862.716<br>REC CURRENT<br>CH 297-304 | 1.863.713<br>REC MOD<br>CH 305-312 | 1.862.716<br>REC CURRENT<br>CH 313-320 | 1.863.713<br>REC MOD<br>CH 321-328 | 1.862.716<br>REC CURRENT<br>CH 329-336 | 1.863.713<br>REC MOD<br>CH 337-344 | 1.862.716<br>REC CURRENT<br>CH 345-352 | 1.863.713<br>REC MOD<br>CH 353-360 | 1.862.716<br>REC CURRENT<br>CH 361-368 | 1.863.713<br>REC MOD<br>CH 369-376 | 1.862.716<br>REC CURRENT<br>CH 377-384 | 1.863.713<br>REC MOD<br>CH 385-392 | 1.862.716<br>REC CURRENT<br>CH 393-400 | 1.863.713<br>REC MOD<br>CH 401-408 | 1.862.716<br>REC CURRENT<br>CH 409-416 | 1.863.713<br>REC MOD<br>CH 417-424 | 1.862.716<br>REC CURRENT<br>CH 425-432 | 1.863.713<br>REC MOD<br>CH 433-440 | 1.862.716<br>REC CURRENT<br>CH 441-448 | 1.863.713<br>REC MOD<br>CH 449-456 | 1.862.716<br>REC CURRENT<br>CH 457-464 | 1.863.713<br>REC MOD<br>CH 465-472 | 1.862.716<br>REC CURRENT<br>CH 473-480 | 1.863.713<br>REC MOD<br>CH 481-488 | 1.862.716<br>REC CURRENT<br>CH 489-496 | 1.863.713<br>REC MOD<br>CH 497-504 | 1.862.716<br>REC CURRENT<br>CH 505-512 | 1.863.713<br>REC MOD<br>CH 513-520 | 1.862.716<br>REC CURRENT<br>CH 521-528 | 1.863.713<br>REC MOD<br>CH 529-536 | 1.862.716<br>REC CURRENT<br>CH 537-544 | 1.863.713<br>REC MOD<br>CH 545-552 | 1.862.716<br>REC CURRENT<br>CH 553-560 | 1.863.713<br>REC MOD<br>CH 561-568 | 1.862.716<br>REC CURRENT<br>CH 569-576 | 1.863.713<br>REC MOD<br>CH 577-584 | 1.862.716<br>REC CURRENT<br>CH 585-592 | 1.863.713<br>REC MOD<br>CH 593-600 | 1.862.716<br>REC CURRENT<br>CH 601-608 | 1.863.713<br>REC MOD<br>CH 609-616 | 1.862.716<br>REC CURRENT<br>CH 617-624 | 1.863.713<br>REC MOD<br>CH 625-632 | 1.862.716<br>REC CURRENT<br>CH 633-640 | 1.863.713<br>REC MOD<br>CH 641-648 | 1.862.716<br>REC CURRENT<br>CH 649-656 | 1.863.713<br>REC MOD<br>CH 657-664 | 1.862.716<br>REC CURRENT<br>CH 665-672 | 1.863.713<br>REC MOD<br>CH 673-680 | 1.862.716<br>REC CURRENT<br>CH 681-688 | 1.863.713<br>REC MOD<br>CH 689-696 | 1.862.716<br>REC CURRENT<br>CH 697-704 | 1.863.713<br>REC MOD<br>CH 705-712 | 1.862.716<br>REC CURRENT<br>CH 713-720 | 1.863.713<br>REC MOD<br>CH 721-728 | 1.862.716<br>REC CURRENT<br>CH 729-736 | 1.863.713<br>REC MOD<br>CH 737-744 | 1.862.716<br>REC CURRENT<br>CH 745-752 | 1.863.713<br>REC MOD<br>CH 753-760 | 1.862.716<br>REC CURRENT<br>CH 761-768 | 1.863.713<br>REC MOD<br>CH 769-776 | 1.862.716<br>REC CURRENT<br>CH 777-784 | 1.863.713<br>REC MOD<br>CH 785-792 | 1.862.716<br>REC CURRENT<br>CH 793-800 | 1.863.713<br>REC MOD<br>CH 801-808 | 1.862.716<br>REC CURRENT<br>CH 809-816 | 1.863.713<br>REC MOD<br>CH 817-824 | 1.862.716<br>REC CURRENT<br>CH 825-832 | 1.863.713<br>REC MOD<br>CH 833-840 | 1.862.716<br>REC CURRENT<br>CH 841-848 | 1.863.713<br>REC MOD<br>CH 849-856 | 1.862.716<br>REC CURRENT<br>CH 857-864 | 1.863.713<br>REC MOD<br>CH 865-872 | 1.862.716<br>REC CURRENT<br>CH 873-880 | 1.863.713<br>REC MOD<br>CH 881-888 | 1.862.716<br>REC CURRENT<br>CH 889-896 | 1.863.713<br>REC MOD<br>CH 897-904 | 1.862.716<br>REC CURRENT<br>CH 905-912 | 1.863.713<br>REC MOD<br>CH 913-920 | 1.862.716<br>REC CURRENT<br>CH 921-928 | 1.863.713<br>REC MOD<br>CH 929-936 | 1.862.716<br>REC CURRENT<br>CH 937-944 | 1.863.713<br>REC MOD<br>CH 945-952 | 1.862.716<br>REC CURRENT<br>CH 953-960 | 1.863.713<br>REC MOD<br>CH 961-968 | 1.862.716<br>REC CURRENT<br>CH 969-976 | 1.863.713<br>REC MOD<br>CH 977-984 | 1.862.716<br>REC CURRENT<br>CH 985-992 | 1.863.713<br>REC MOD<br>CH 993-1000 |

Rack PCB Destination Label  
Order No. 1.863.640.09

STOP  
EMI

DO NOT OPERATE MACHINE  
WITHOUT FRONT COVER

STOP  
DUST

---

STOP  
EMI

DO NOT OPERATE MACHINE  
WITHOUT FRONT COVER.

STOP  
DUST

---

DANGER OF INJURY AND ELECTRIC SHOCK

KEEP MACHINE CLOSED

DO NOT MOVE MACHINE WITH AN OPEN OR  
UNSECURED DECK ASSEMBLY

---

F8

REMBUS

F7

REMBUS

F6

LEVEL

F5

KEY-BOARD

F4

PARALLEL CAPSTAN

F3

REMOTE REC-CURR

F2

+15V/-15V +5.6V/+24V

F1

+26V/-25V

Direction Label  
Order No. 1.863.089.07

**KEEP UNIT CLOSED**

**DANGER OF INJURY**

Warning Label red RAL 3020

Order No. 1.863.089.08