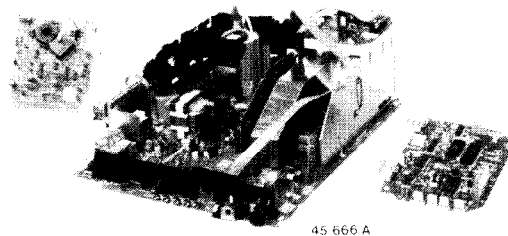


Service
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Service

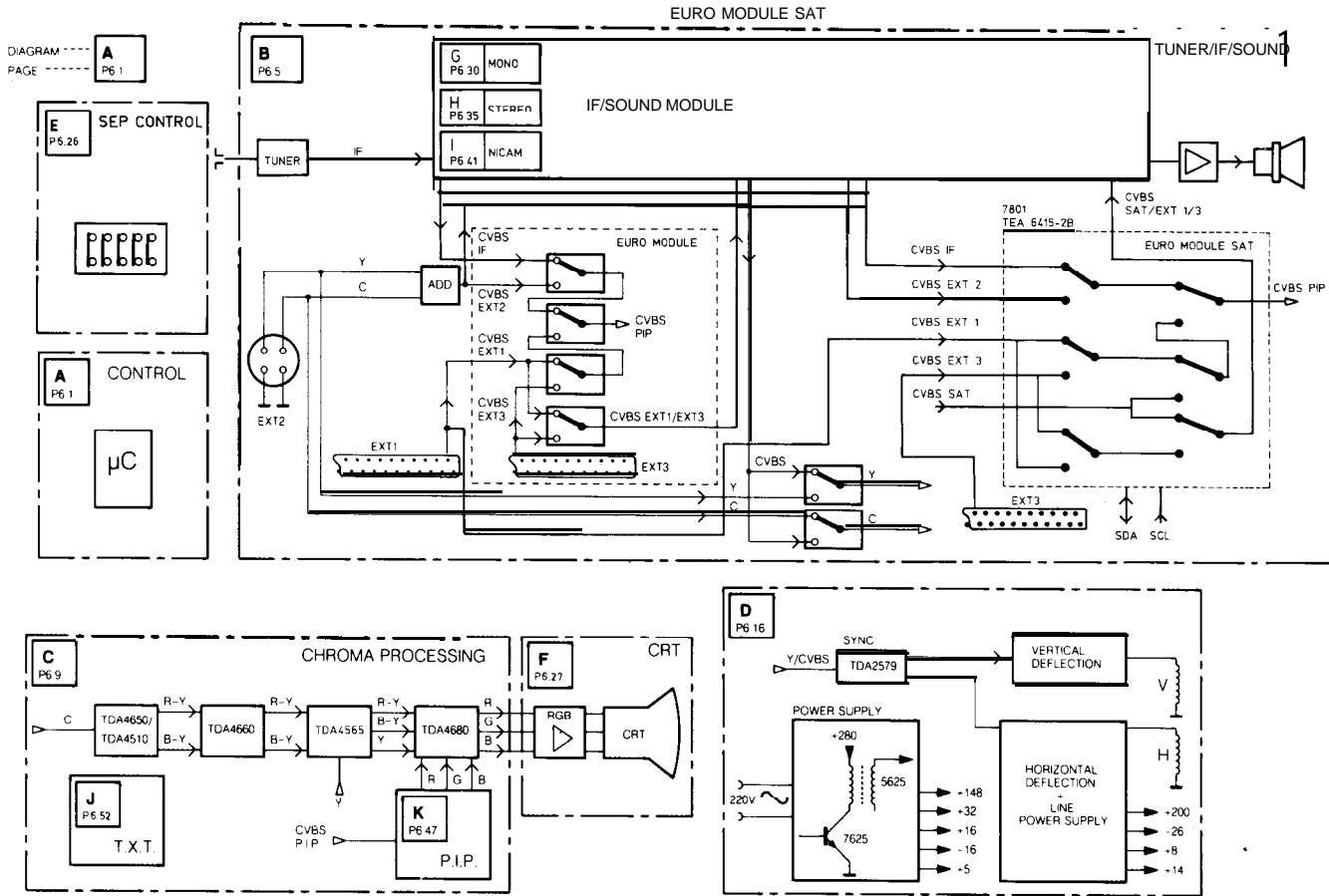


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GR2.2AA
AP 1 X 5295

Service Manual

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Block diagram



Technical specification

Mains voltage	: 220 240 V (± 10%)
Mains frequency	: 50 Hz (± 10%)
Aerial input impedance	: 75Ω - coax
Minimum aerial voltage	: 40µV
Maximum aerial voltage	: 32mV
Pull-in range colour synchronization	: ± 300Hz
Pull-in range horizontal synchronization	: ± 300Hz

Local operation functions:

P +; P -; +; -; install

Programmes: O-59

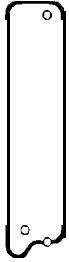
VCR operation on programmes: O-59

Indications:

- On Screen Display (OSD)
- LED:
 - standby (red)
 - operation (green)
 - RC5 reception (flashing yellow)
 - internal fault in µP (flashing)

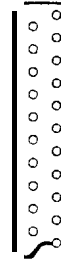
1. Specification of the terminal sockets

EXT1



- 1 • Audio ⊕ R ($0,5V_{RMS} \leq 1\text{ k}\Omega$)
- 2 • Audio ⊖ R ($0,2 \cdot 2V_{RMS};$
 $0,5\text{ V}_{nom}; \geq 10\text{k}\Omega$)
- 3 • Audio ⊕ L ($0,5V_{RMS} \leq 1\text{ k}\Omega$)
- 4 • Audio ⊖ L
- 5 • Blue ⊖
- 6 • Audio ⊖ L ($0,2 \cdot 2V_{RMS};$
 $0,5\text{ V}_{nom}; \geq 10\text{k}\Omega$)
- 7 • Blue ⊖ ($0,7V_{pp}; 75\Omega$)
- 8 • RC5 ⊕ ($500-800\text{mV}_{pp}$) +
CVBS-Status 1 ⊖
(0-2V: int.; 9,5-12V: ext.)
- 9 • Green ⊖
- 10 • -
- 11 • Green ⊖ ($0,7V_{pp}; 75\Omega$)
- 12 • -
- 13 • Red ⊖
- 14 • -
- 15 • Red ⊖ ($0,7V_{pp}; 75\Omega$)
- 16 • RGB-Status ($0-0,4\text{V}$: int. 1-3V
ext. 75Ω)
- 17 • CVBS ⊕ ⊖
- 18 • CVBS ⊖ ⊖
- 19 • CVBS ⊕ ($1V_{pp}/75\Omega$)
- 20 • CVBS ⊖ ($1V_{pp}/75\Omega$)
- 21 • Earth screen

EXT3



- 1 • Audio ⊕ R ($0,5V_{RMS}; \leq 1\text{ k}\Omega$)
- 2 • Audio ⊖ R ($0,2 \cdot 2V_{RMS};$
 $0,5\text{ V}_{nom}; \geq 10\text{k}\Omega$)
- 3 • Audio ⊕ L ($0,5V_{RMS}; \leq 1\text{ k}\Omega$)
- 4 • Audio ⊖ L
- 5 • -
- 6 • Audio ⊖ L ($0,2 \cdot 2V_{RMS};$
 $0,5\text{ V}_{nom}; \geq 10\text{k}\Omega$)
- 7 • -
- 8 • CVBS status 3 ⊕ (0-2V: int.;
9,5-12V: ext.)
- 9 • -
- 10 • -
- 11 • -
- 12 • -
- 13 • -
- 14 • -
- 15 • -
- 16 • -
- 17 • CVBS ⊕ ⊖
- 18 • CVBS ⊖ ⊖
- 19 • CVBS ⊕ ($1V_{pp}/75\Omega$)
- 20 • CVBS ⊖ ($1V_{pp}/75\Omega$)
- 21 • Earth screen

EXT2



- 1 - I
- 2 - 1
- 3 • Y ⊖ ($1V_{pp}; 75\Omega$)
- 4 • C ⊖ ($1V_{pp}; 75\Omega$)

2x ⊕

CINCH Audio ⊖ L + R ($0,2-2V_{RMS};$
 $0,5\text{ V}_{nom} \geq 10\text{k}\Omega$)

Audio out

2x ⊕ CINCH Audio ⊕ L + R ($0,5V_{RMS}; \leq 1\text{ k}\Omega$)

Front

3.5mm $\geq 8\Omega$

2. Connecting equipment

Depending on the type of TV set, a variety of equipment can be connected. The exact number of pieces of equipment depends on the number of connectors on the back of the TV set (EXT1, 2 or 3). The wiring diagram in Fig. 2.1 shows which kinds of equipment can be connected. The wiring diagram shows the TV set with the maximum number of connectors possible for the GR2.2 chassis.

An RGB source (e.g. laserdisc player) can only be connected to EXT1. In order to switch the TV set to RGB operation, this RGB source must generate both a CVBS status signal at pin 8 and an RGB status signal at pin 16 of the euroconnector. It is not possible to switch the equipment to EXT1 in RGB operation using the remote control.

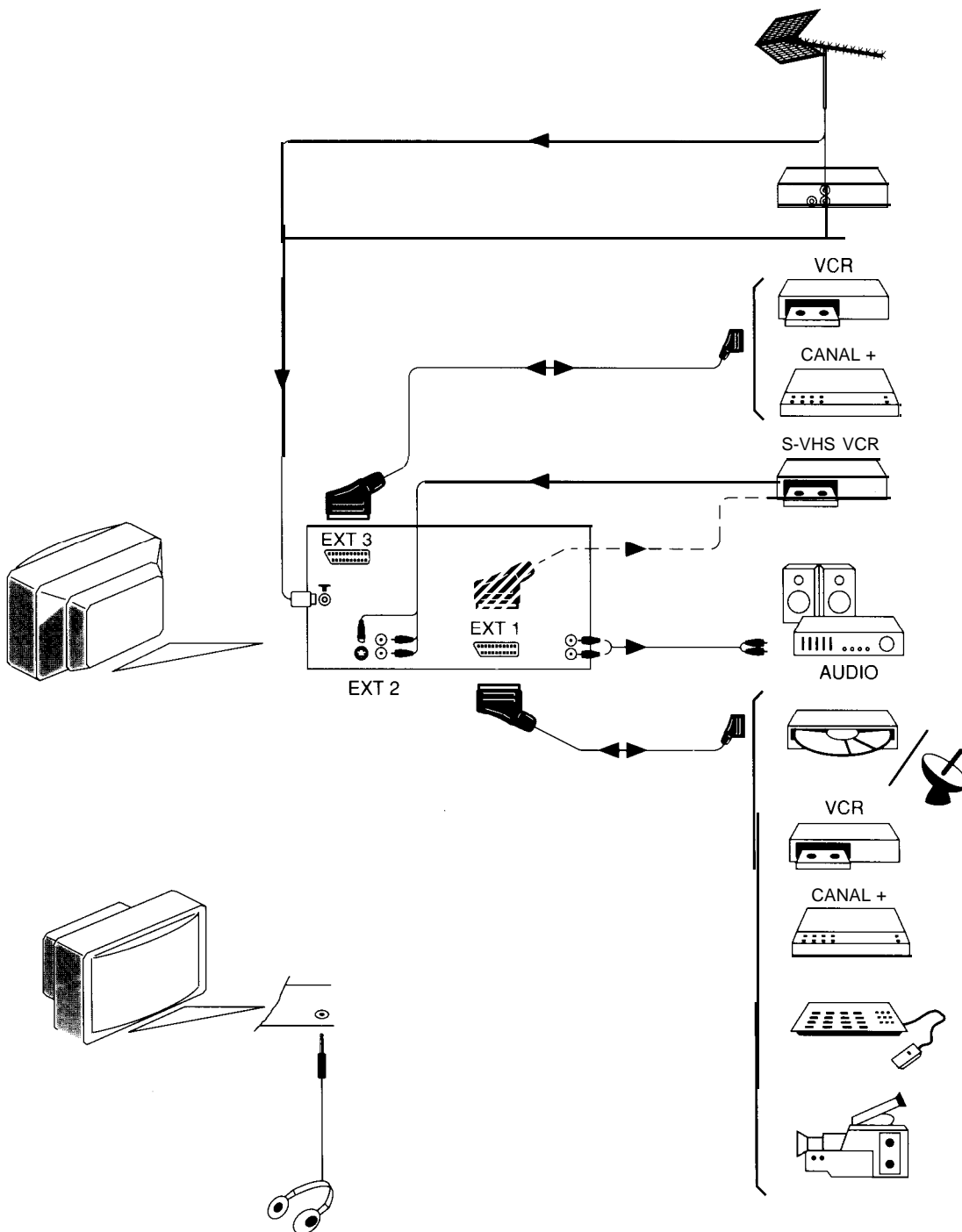




Fig. 2.1





Warnings

1. Safety regulations require that the unit should be returned in its original condition and that components identical to the original components are used. The safety components are indicated by the symbol .
2. In order to prevent damage to ICs and transistors, all high-voltage flashovers must be avoided. In order to prevent damage to the picture tube, it should be discharged using the method shown in Fig.3.1. Use a high-voltage probe and a multimeter (position DC-V). Discharge until the meter reading is OV (after approx. 30s).
3. **ESD** 
All ICs and many other semiconductors are sensitive to electrostatic discharges (ESD). Careless handling during repair can drastically shorten their life. Make sure that during repair you are connected by a pulse band with resistance to the same potential as the earth of the unit. Keep components and tools also at this same potential.
4. When repairing a unit, always connect it to the mains voltage via an isolating transformer.
5. Be careful when taking measurements in the high-voltage section and on the picture tube.
6. Never replace modules or other components while the unit is switched on.
7. It is recommended that safety goggles are worn when replacing the picture tube.
8. When making settings, use plastic rather than metal tools. This will prevent any short circuits and the danger of a circuit becoming unstable.
9. After repair the wiring should be fastened once more in the cable clamps for this purpose.
10. In order to prevent measuring errors, the heat sinks should not be used as reference points for measurements.
The heat sink for the sound output amplifier (next to the channel selector) is connected to the -16 or -12 volts.
11. Together with the deflection unit and any multipole unit, the flat square picture tubes used form an integrated unit. The deflection and the multipole units are set optimally at the factory. Adjustment of this unit during repair is therefore not recommended.
12. The high-voltage cable in 21" units is glued in the line output transformer. This can therefore not be replaced.

Notes

CHASSIS GR2.2

3.1

1. The cold chassis direct voltages and oscillograms should be measured with regard to the tuner earth (A). Voltages on the line mains side of the SOPS transformer 5625 should be measured with respect to .
2. The direct voltages and oscillograms given in the diagrams should be measured in the service default mode (see section 9). A colour bar signal, modulated on a picture carrier wave of 475.25 MHz, should be used as the video signal. A 1 kHz signal should be used for the sound (for all systems).
3. Where necessary, the oscillograms and direct voltages are measured with  and without aerial signal(x). Voltages in the power supply section are measured both for normal operation () and in standby (). These values are indicated by means of the appropriate symbols.
4. The picture tube PCB has printed spark gaps. Each spark gap is connected between an electrode of the picture tube and the Aquadag coating.
5. The semiconductors indicated in the circuit diagram and in the parts lists are completely interchangeable per position with the semiconductors in the unit, irrespective of the type indication on these semiconductors.
6. The connectors used for the modules (board to board) are gold-plated and should only be replaced by the same type.
7. In the case of fault finding and/or repair to the teletext module, the accessibility of the circuit and the components can be increased by using extension cards.
The order numbers of these extension cards are:
• 6 times: 4822 395 30259
* 8 times: 4822 2 14 3 1402
8. Both multisystem and single system units are mentioned in this documentation. The term multisystem unit is used to refer to a unit that is suitable for the reception of PAL BGI and SECAM BGLL' systems. A multi-system set for Eastern-Europa is suitable for the reception of the PAL/SECAM BGDK systems. The term single system unit is used to refer to all other units (such as PAL BG, PAL/SECAM BG and PAL I units).
9. Blackline units can be recognized by the thick, protected high-voltage cable. Non-blackline units have a thin, unprotected high-voltage cable.

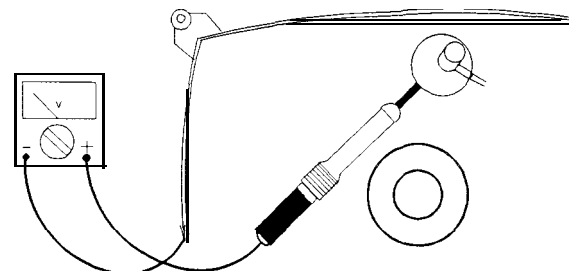
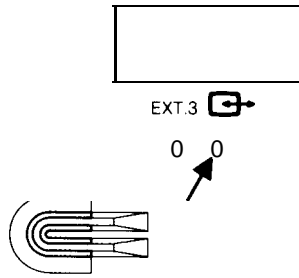


Fig. 3.1

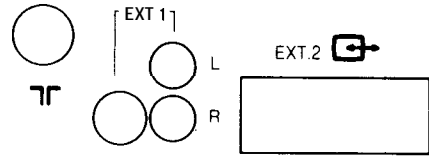
1. Removing the back plate

It is only possible to remove the back plate after removing the screws on the top, side, possibly on the underneath and possibly under the EXT 3 connection (see Fig. 4.1). In the case of subwoofer units, the subwoofer speaker on the carrier panel should also be unplugged.



2. Service position 1

Service position for module service and to measure test points
 Unlock the chassis after the cables of the degaussing coil and any PIP module have been disconnected, and pull it backwards until all test points are accessible (see Fig. 4.2).
 In order to make the tuner and the IF/sound module accessible, the bracket above these modules can be removed (see Fig. 4.3). With the exception of one fault message, the unit continues to function normally when the PIP module is not connected.

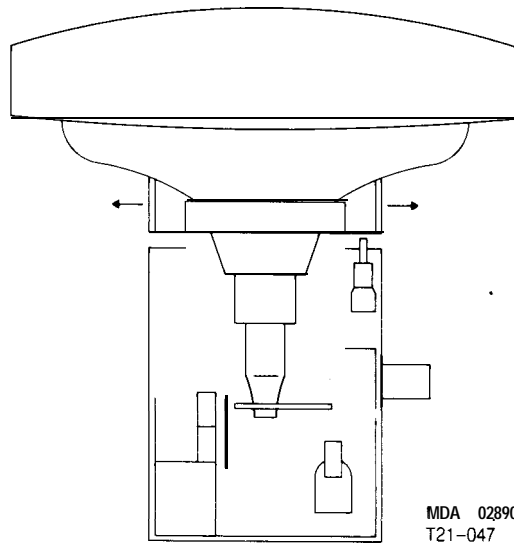


MDA 02956
T19/106

Fig. 4.1

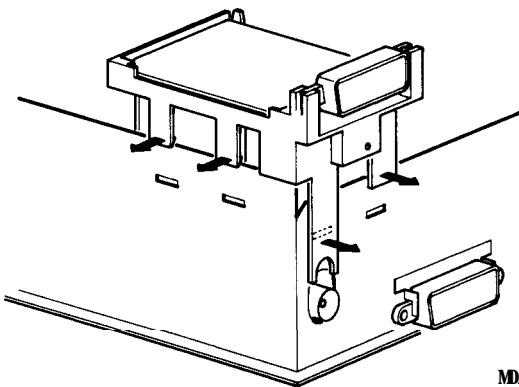
3. Service position 2

Service position for repair
 Place the chassis on the heat sink on the tuner side after service position 1 is reached (see Fig. 4.4).
Warning: make sure that the heat sink of the sound output amplifier does not form a short circuit with the raster/line heat sink if the bracket of the euromodule has been removed!



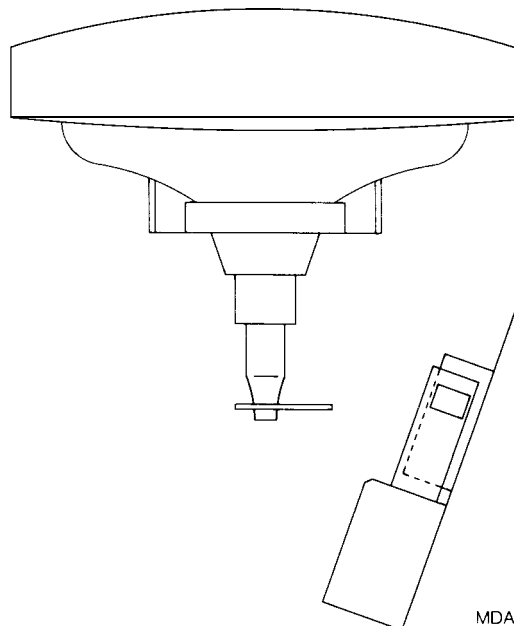
MDA 02890
T21-047

Fig. 4.2



MDA. 02955
T19/106

Fig. 4.3



MDA.02889
T21-047

Fig. 4.4

Setting conditions

All electrical settings should be made under the following conditions:

- supply voltage: $220 \pm 240 \text{ V} \pm 10\%$;
 $50 \text{ Hz} \pm 5\%$
- warming-up time ≈ 10 minutes
- * the voltages and oscillograms have been measured with regard to tuner earth.
- measuring probe: $R_i > 10 \text{ M}\Omega$; $C_i < 2.5 \text{ pF}$.

1. Settings on the carrier board

1.1 + 148V/ + 95V supply voltage

Connect a voltmeter over C2631. Using R3635, set the supply voltage to $+ 148\text{V} \pm 0.5\text{V}$ for 25" and 28" units or to $95\text{V} \pm 0.5\text{V}$ for 21" units.

1.2 Focusing

This is set using the focusing potentiometer (on the top of the line output transformer).

1.3 Vg2 setting

Connect a pattern generator and supply a blanking frame signal (black picture). Switch the unit to the service default mode (see section 9).

Connect an oscilloscope to the emitters of transistors 7304 and 7364 on the picture tube module. Set the oscilloscope to frame frequency. Measure the DC voltage level of the measuring pulses (see Fig. 7.2). Using the Vg2 potentiometer on the line output transformer, set the measuring pulse with the lowest DC voltage level to:

- * $+ 145\text{V} \pm 5\text{V}$ for 25" and 28" blackline units (protected high-voltage cable)
- * $+ 130\text{V} \pm 5\text{V}$ for 28" non-blackline units
- * $+ 118\text{V} \pm 5\text{V}$ for 25" non-blackline units
- * $+ 120\text{V} \pm 5\text{V}$ for 21" units.

1.4 Horizontal synchronization

Connect pin 5-IC7470 to pin 9-IC7470. Supply an aerial signal and tune the set. Adjust potentiometer 3457 until the picture is straight. Remove the interconnection.

1.5 Horizontal centring

Set using potentiometer 3461.

1.6 Vertical centring

Set using potentiometer 35 16.

1.7 Picture height

Set using potentiometer 3504.

1.8 Chroma bandpass filter

a. Setting for PAL/SECAM sets (TDA4650)

Connect a signal generator (e.g. PM 5326) to pin 20 of the euroconnector (EXT1) and set its frequency to $4.286 \text{ MHz}/0.2 \text{ Vpp}$. Switch the unit to EXT1. Connect pin 27-IC7306 to pin 13-IC7306 (+ 12V). Connect an oscilloscope to pin 15-IC7306.

Set 5301 to maximum amplitude. Remove the interconnection.

b. Setting for PAL sets (TDA4510)

Connect a signal generator (e.g. PM 5326) to pin 20 of the euroconnector (EXT1) and set its frequency to 4.43 MHz. Connect the unit to EXT1. Connect an oscilloscope to pin 9-IC7305 (TDA4650). Set 5301 to maximum amplitude.

1.9 Chroma auxiliary oscillator

Connect a pattern generator and supply a PAL colour bar pattern. Connect pin 11-IC7305 (TDA4510) or pin 17-IC7306 (TDA4650) to earth. Set 2313 so that the colour on the screen has practically stopped. Remove the interconnection.

1.10 SECAM demodulators for PAL/SECAM sets (TDA4650)

Connect a pattern generator and supply a SECAM black pattern. Connect an oscilloscope to pin 1-IC7306 (TDA4650). Set 5304 to minimum amplitude. Connect the oscilloscope to pin 3-IC7306 (TDA4650). Set 3312 to minimum amplitude.

1.11 White balance

Connect a pattern generator and select a white picture. Switch on the service menu (see section 9) and select "WHITE BALANCE". Set the value of "Green" to 51, and the Value of "Blue" to 46. In most cases-no further adjustments are required.

1.12 Peak white limit

Switch on the service menu (see section 9) and select "WHITE BALANCE". Set "WHITE LIMIT" to the value:

- 43 for blackline units
- 53 for non-blackline units
- 53 for 21" units.

1.13 Cut-off points of the picture tube

Connect a pattern generator and select a black picture. Switch on the service menu (see section 9) and select "CUT OFF". Set the value of "Red" to 56, and fore "Green" to 16, and for "Blue" to 15. In most cases no further adjustments are required.

1.14 Options

Switch on the service menu and select "OPTION 1" or "OPTION 2". Switch the options "ON" and "OFF" according to whether the following options are present:

- "PIP" on a PIP set
- "2ND SCART" on a set with two euroconnectors
- "TELETEXT" on a teletext set
- "SVHS" for the Y/C connector in mono sets
- "MULTI SYSTEM" for multisystem sets
- "HYPERBAND" for a tuner which can be tuned to the frequency band of 300 MHz to 450 MHz
- "UHF ONLY" for a tuner which can only be tuned to the UHF band
- "NICAM TWIN" for stereo sets which can also receive NICAM sound.
- "SIXTEEN/NINE" for switching between normal screen size and wide screen size.

MAIN PANEL

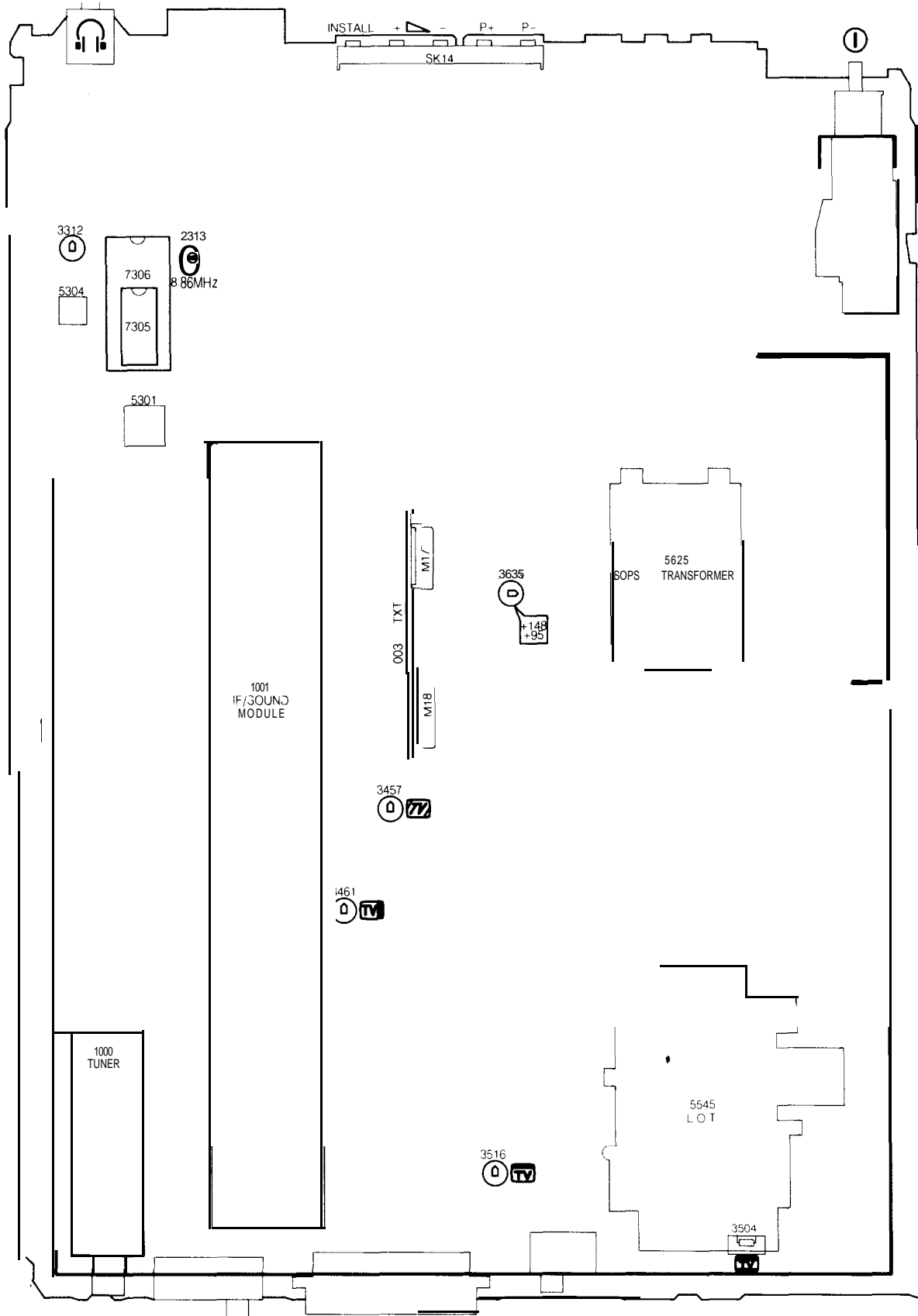
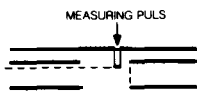


Fig. 7.1



2. MF/sound module adjustment (Fig 7.3)

2.1 The M.F. sound modulator

a. For multi-system France (BGLI).

Stereo + mono:

Connect a pattern generator (e.g PM 5518) to the tuner and adjust the generator to SECAM L with a frequency of 47.25 MHz (SECAM L'). Adjust L 5080 to minimum picture distortion.

- Adjust the pattern generator to PAL BG with a frequency of 475.25 MHz.

Stereo:

- Connect an oscilloscope to pin 17 of IC 7 100 (TDA 3856). Using L 5104 adjust the amplitude of the signal to its minimum value.

b. For Europe (BG) stereo and East-European multi system (BGDK) stereo.

Adjust the pattern generator to PAL BG with a frequency of 475.25 MHz.

- Connect an oscilloscope to pin 15 of IC 7 101 (TDA 3857). Using L 5 104 adjust the amplitude of the signal to its minimum value.

c. For NICAM (BGI) stereo.

- Adjust the pattern generator to PAL BG with a frequency of 475.25 MHz.

- Connect an oscilloscope to pin 15 of IC 7 100 (TDA 3857). Using L 5103 adjust the amplitude of the signal to its minimum value.

2.2 The FM sound modulator

a. For multi system France (BGLI) + Europe + mono UK.

Adjust the pattern generator to PAL BG with a frequency of 475.25 MHz with stereo L= 3kHz and R = 1 kHz.

5.5 MHz

Connect an oscilloscope to pin 2 of M 24. Using L 5 105 adjust the amplitude to its maximum value.

- 5.74 MHz (only for stereo)

Connect an oscilloscope to pin 3 of M 23. Using L 5 103 adjust the amplitude to its maximum value.

b. For East-European multi system (BGDK).

- 6.5 MHz.

Adjust the pattern generator to SECAM DK with a frequency of 475.25 MHz.

Connect an oscilloscope to pin 2 of M 24. Using L 5 105 adjust the amplitude to its maximum value.

- 5.74 MHz (only for stereo)

Adjust the pattern generator to PAL BG with a frequency of 475.25 MHz with stereo L= 3kHz and R = 1 kHz.

Connect an oscilloscope to pin 3 of M 23. Using L 5103 adjust the amplitude to its maximum value.

c. For NICAM

- NICAM I.

Adjust the pattern generator to PAL I with a frequency of 475.25 MHz.

Select analogue sound.

Connect an oscilloscope to pin 7 of IC 7100 (TDA 3857). Using L 5102 adjust the amplitude to its maximum value.

- NICAM BG.

Adjust the pattern generator to PAL BG with a frequency of 475.25 MHz.

Select analogue stereo sound with L= 3kHz and R = 1kHz.

- * 5.5 MHz.

Connect an oscilloscope to pin 7 of IC 7100 (TDA 3857).

Using L 5 102 adjust the amplitude to its maximum value.

- 5.74 MHz.

Connect an oscilloscope to pin 6 of IC 7100 (TDA 3857).

Using L 5101 adjust the amplitude to its maximum value.

2.3 AFC and picture demodulation:

Adjust the pattern generator to the system given in the table below (PAL BGI and SECAM BGDK to 475.25 MHz, SECAM L' to 47.25 MHz).

- Connect an oscilloscope to pin 3 of connector G 29 and using L 5035 or L 5037 (see table) adjust the amplitude to its minimum value.

- Connect an oscilloscope to pin 11 of connector G 29 and using L 5036 or L 5038 (see table) adjust to 2V Dc.

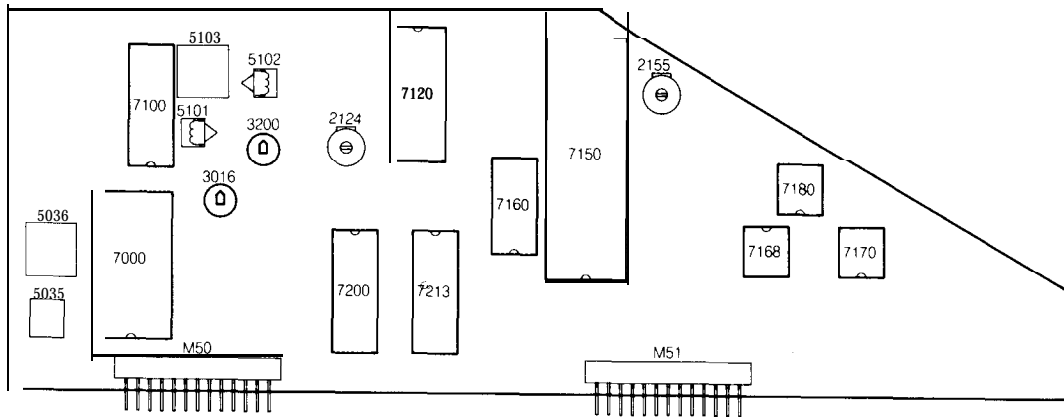
2.4 RF- If t dis dis
2.5 MF Coi SEI 47 Coi G 2 Usi sig Ste Coi B G right the Set BG
2.6

SYSTEM	L5035/L5036	L5037/L5038
Multi French (BGLI) mono/stereo	SECAM L'	SECAM BG/PAL BG
Europe (BG) stereo	PAL BG	--
Europe (BG) mono	--	PAL BG
Multi Eastern- Europe (BGDK) stereo	SECAM K	
Multi Eastern- Europe (BGDK) mono	--	SECAM K
UK mono	--	PAL I
UK stereo	PAL I	

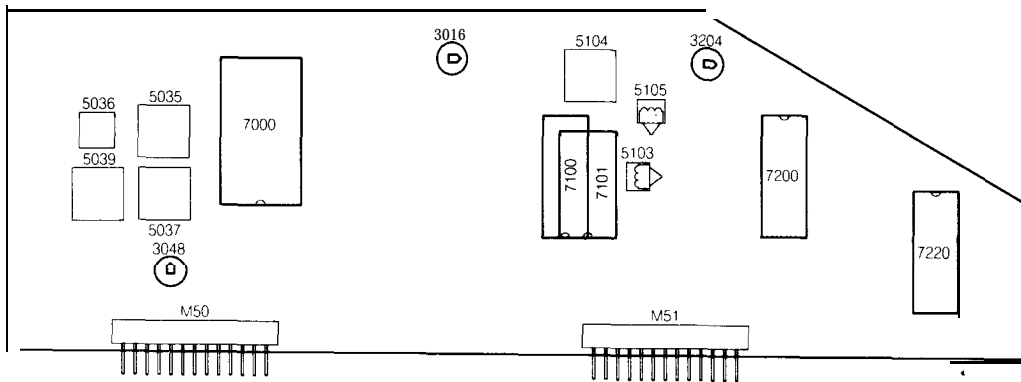
- 2.4 RF-AGC
If the picture from a strong local transmitter is distorted, adjust 3016 until the picture is not distorted.
- 2.5 MF-AGC (Multi French (BGLI) system sets).
Connect a pattern generator and select a SECAM-L colour bar signal with a frequency of 475.25 MHz.
Connect an oscilloscope to pin 3 of connector G 29.
Using 3048 adjust the amplitude of the video signal to 1 .8 Vpp.
- 2.6 **Stereo matrix** (stereo and NICAM units)
Connect a pattern generator and supply a PAL BG signal with stereo sound. Select only the right-hand channel sound. Set the balance of the unit completely to the left.
Set 3204 (stereo units) or 3200 (NICAM PAL BG units) to minimum sound reproduction.



NICAM IF/SOUND MODULE



STEREO IF/SOUND MODULE



MONO IF/SOUND MODULE

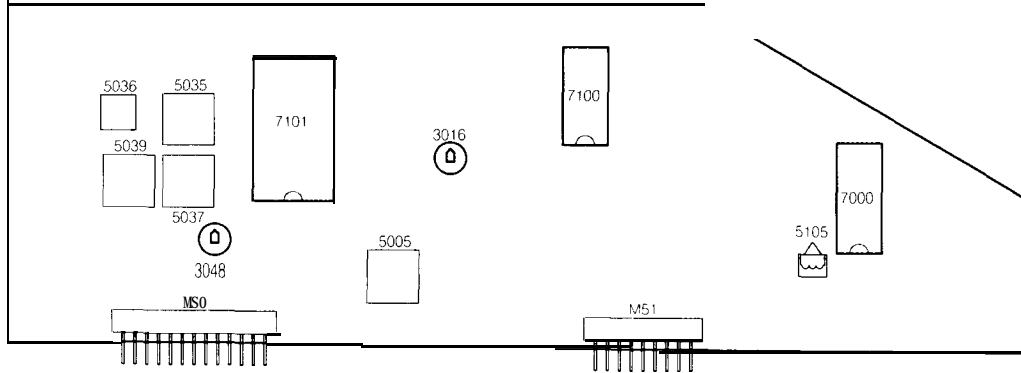


Fig. 7.3

PIP MODULE

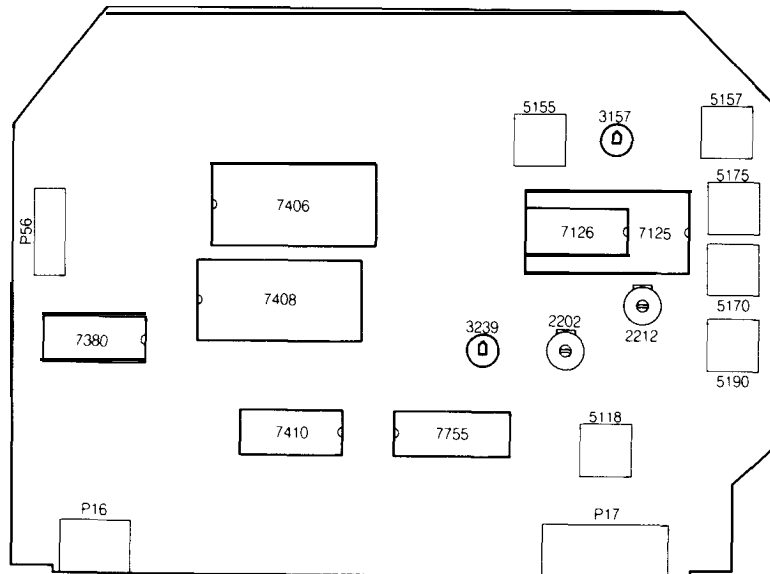


Fig. 7.4

3. Adjustments on the PIP module (Fig. 7.4)

Adjustment conditions

Before making each adjustment, ensure that a PIP picture with the prescribed signal is visible on the screen and that the unit has reached its operating temperature (after ≈ 10 min.).

3.1 Horizontal synchronization

Do not supply an aerial or generator signal. Connect pin 28-IC7 125 to pin 13-IC7 125 if TDA4554 is present (PAL selection). Connect pin 5-IC7755 to earth. Measure the frequency at pin 17-IC7755 and using 3239 set it to $15.625 \text{ Hz} \pm 25 \text{ Hz}$. Remove the interconnection.

3.2 Chroma bandpass filter

a. Adjustment for PIP modules with TDA4554

Connect a signal generator (e.g. PM 5326) to pin 10 of P17 and set its frequency to $4.286 \text{ MHz}/0.2 \text{ VPP}$. Connect pin 27-IC7 125 to 13-IC7 125. Connect an oscilloscope to pin 15-IC7 125. Set 51 18 to maximum amplitude. Remove the interconnection.

b. Adjustment for PIP modules with TDA4510

Connect a signal generator (e.g. PM 5326) to pin 10 of P17 and set its frequency to $4.43 \text{ MHz}/0.2 \text{ Vpp}$. Connect an oscilloscope to pin 9-IC7 126. Set 5118 to maximum amplitude.

3.3 PAL chroma auxiliary oscillator

Connect a pattern generator and supply a PAL colour bar pattern. Connect pin 17-IC7 125 (TDA4554) or pin 1 1 -IC7 126 (TDA4510) to earth. Set 2202 so that the colour of the PIP picture is practically still. Remove the interconnection.

3.4 NTSC chroma auxiliary oscillator for PIP modules with TDA4554

Connect a pattern generator and supply an NTSC M colour bar pattern. Connect pin 17-IC7 125 to earth. Set 2202 so that the colour of the PIP picture is practically still. Remove the interconnection.

3.5 Delay line

Connect a pattern generator and supply a PAL colour bar signal. Connect the X-input of the oscilloscope to pin 1 -IC7 125 (TDA4554) or pin 1-IC7126 (TDA4510). Connect the Y-input of the oscilloscope to pin 3-IC7 125 (TDA4554) or pin 2-IC7 126 (TDA45 10). Set the oscilloscope to the X-Y position.

Set 5 155 and 5157 so that the vectors lie in one line (points which are furthest from the origin). Set the pattern generator to the "DEM" mode. Set R3 157 so that the vectors lie on top of one another in the origin.

3.6 SECAM identification for PIP modules with TDA4554

Connect a pattern generator and supply a SECAM colour bar signal. Connect pin 27-IC7 125 to pin 13-IC7 125. Connect an oscilloscope to pin 21 -IC7125. Set 5190 to minimum DC level. Remove the interconnection.

3.7 SECAM demodulators for PIP modules with TDA4554

Connect a pattern generator and supply a SECAM signal without contents (black). Connect pin 27-IC7125 to pin 13-IC7 125. Connect an oscilloscope to pin 1 -IC7 125. Using 5175, set the DC level during the scan equal to the DC level during the flyback.

In the same way set 5170, but now measure at pin 3-IC7 125.

Remove the interconnection.

4. Adjustments on the picture tube module

4.1 Picture width

Set using potentiometer 3525.

4.2 East/West correction

Set using potentiometer 3521. This setting is only for 25" and 28" units.

2. Replacing the EEPROM IC7710

If the EEPROM has to be replaced during a repair, the microprocessor will load the EEPROM with a number of default values for the white balance, peak white limit and cut-off point settings. However, all these values should be checked and adjusted, if necessary.

All options should also be set, the programs installed and personal preference set.

3. Table of error messages

Error indication	Description	Possible fault
OSD: ERR PIP	I ² C fault PIP module	* +5 on PIP module * IC7406
OSD: ERR TXT	I ² C fault TXT module	* +5 on teletext module * IC7800
OSD: ERR NICAM	I ² C fault IC7 160 (NICAM units)	* +5 on IF/sound module * IC7160, C2160, c2161, C2221, c2222 * IC7213
OSD: ERR 8415	I ² C fault IC7200 (stereo and NICAM units)	* + 14 on IF/Sound module * IC7200 * IC7220
OSD: ERR 8425	I ² C fault IC7213 (NICAM units) I ² C fault IC7220 (Stereo units)	* IC7213/IC7220
OSD: ERR EEPROM	I ² C fault IC7710	* IC7710
OSD: ERR TUNER	I ² C fault tuner	* Tuner * TS7003
OSD: ERR CHROMA	I ² C fault IC7309	* supply IC7309 (+9) * IC7309
Flashing LED	Internal fault in μ P	* IC7708
OSD: ERR BUS	I ² C bus blocked	* C2714, C2715

1 Service-Default-Mode

The GR2.2 is equipped with a service default mode. The service default mode is a fixed defined mode in which the unit can be placed.

1.1 Mode definition

The definition of the fixed mode in the service default mode is as follows:

all sound and picture controls are in the central position (with the exception of the volume which is set to low)

The set should be tuned to 475.25 MHz system:

- PAL BG, PAL/SECAM BG or PAL I for single system units (option 2 MULTI SYSTEM "OFF")
- SECAM L for multisystem units. (option 2 MULT SYSTEM "ON")
- SECAM DK for sets for Eastern-Europa with option 2 MULTI SYSTEM "ON".
- PAL BG for sets for Eastern-Europa with option 2 MULTI SYSTEM "OFF".

1.2 Switching on and off

The service default mode is switched on by briefly short-circuiting the pins M33 and M34 (SERVICE) behind the INSTALL key on the carrier panel when switching the unit on with the mains switch. In order to indicate that the unit is in the service default mode, an "SER" appears on the screen. The service default mode can only be switched off by switching the unit to standby (⏻). If the unit is switched off and then on again using the mains switch or mains plug, the service default mode remains switched on.


1.3 Operation and extra facilities

In addition to the fact that the unit can be operated normally, in the service default mode two extra functions are available:

Autostore

When operating the **install** key on the local control panel, the unit is tuned to the next transmitter frequency. This frequency is also stored under the selected programme number. Therefore the installation menu cannot be accessed in the service default mode!

• Service menu

The service menu is activated by first pressing the  key and then at the same time the P+ key on the local control panel. The service menu now appears on the screen. The service menu offers the facility to set various options and make a number of picture tube settings. The various components in the service menu are selected using the coloured keys on the remote control. The various components themselves are adjusted using the + and - keys on the remote control. The values and options set are immediately stored in the EEPROM.

Note 1:

If the service menu does not appear on the screen **and** the autostore function does not react, then the "LOCK" function is probably activated.

If the autostore function only does not react, the hotel mode is activated.

Note 2:

If a multisystem unit in the service default mode is to be used with the PAL/SECAM BG system, option 2 "MULTI SYSTEM" may be temporarily disabled "OFF".

Note 3:


If a multi-system set for Eastern-Europa in the service default mode is nevertheless to be used with the PAL BG system, option 2 "MULTI SYSTEM" may be temporarily disabled ("OFF").

2. Hotel mode

In the hotel mode the volume control is limited to a maximum to be set beforehand and the installation menu cannot be called up.

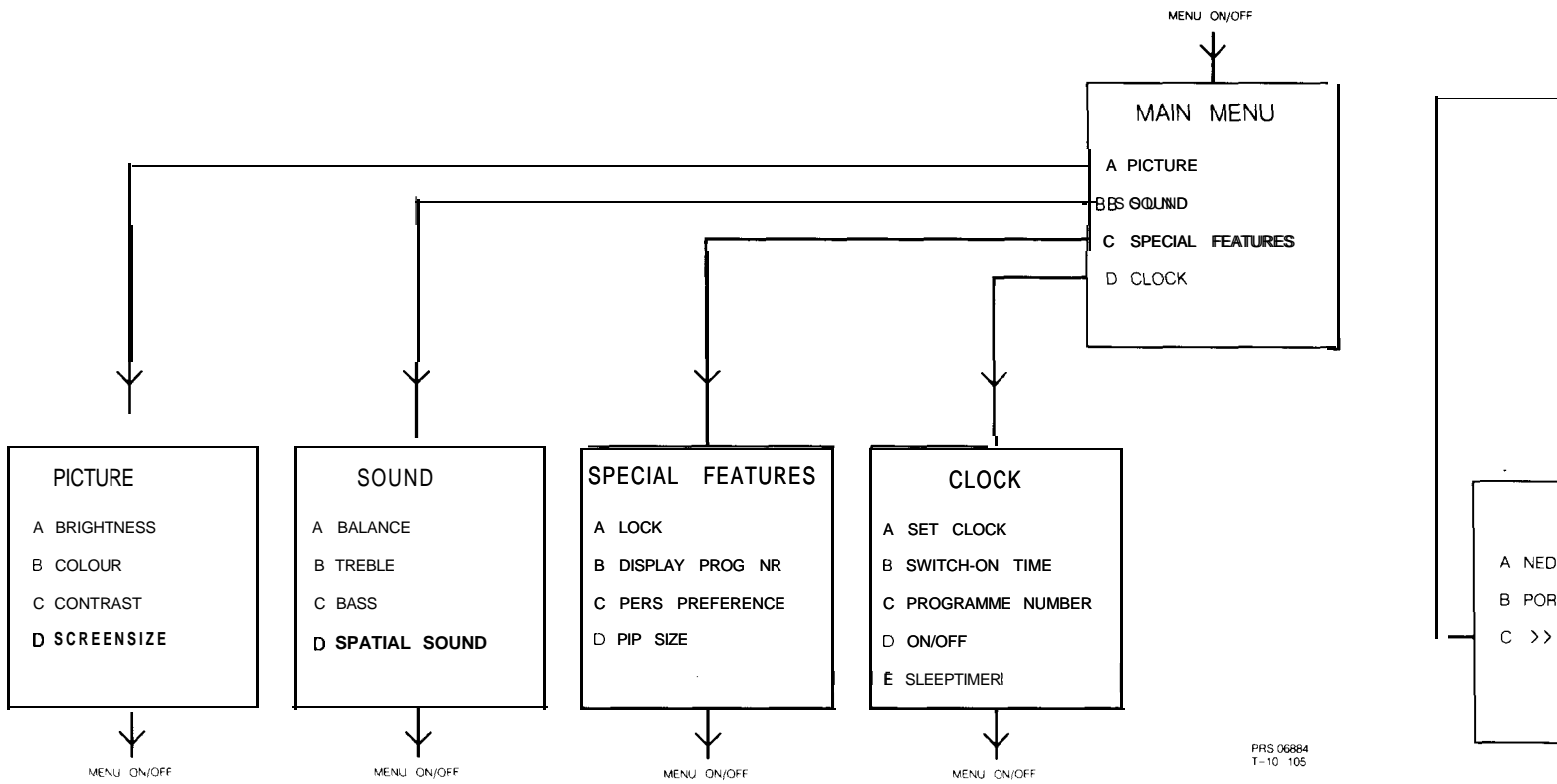
2.1 Switching the hotel mode on and off

Select programme number 38.

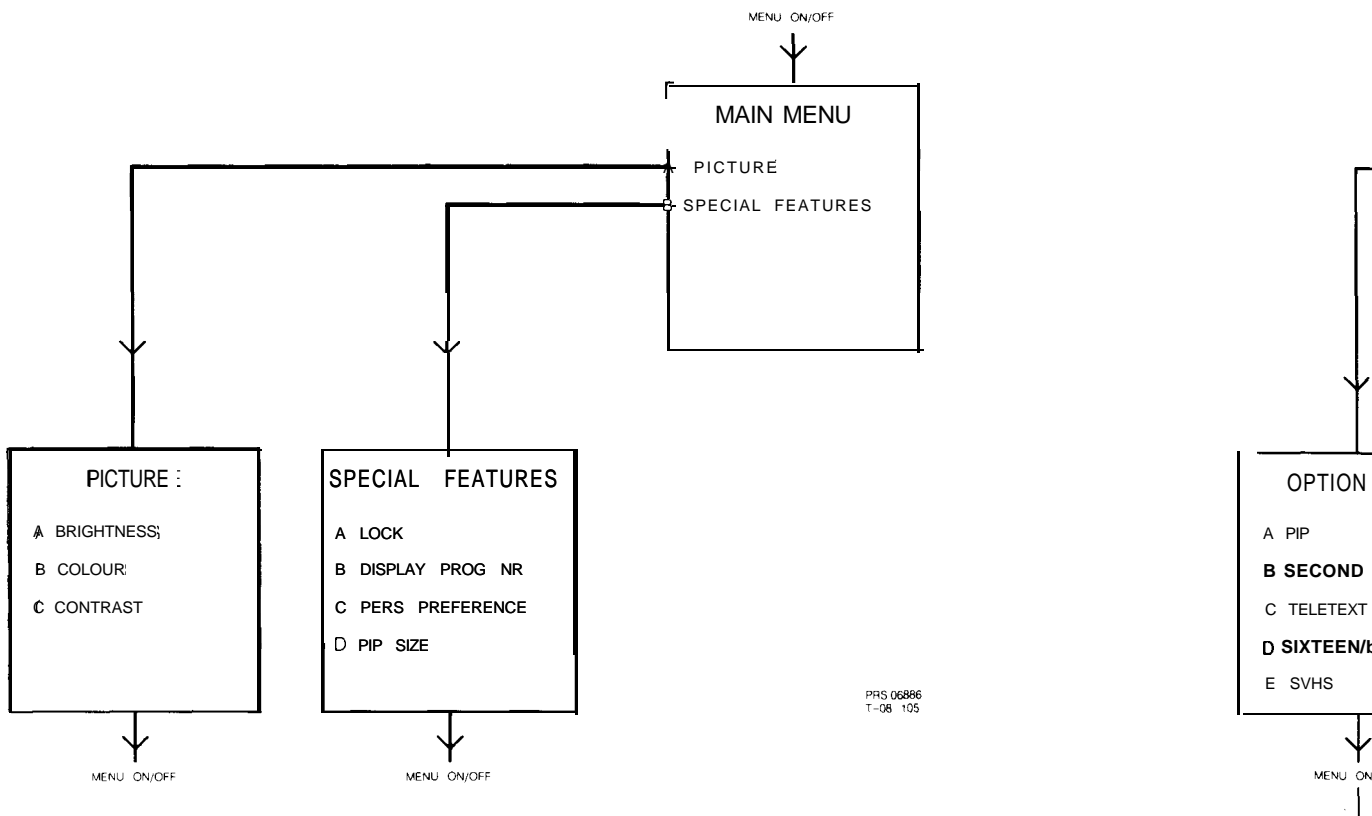
First press  + and keep this depressed while pressing P -,

'Survey of menus

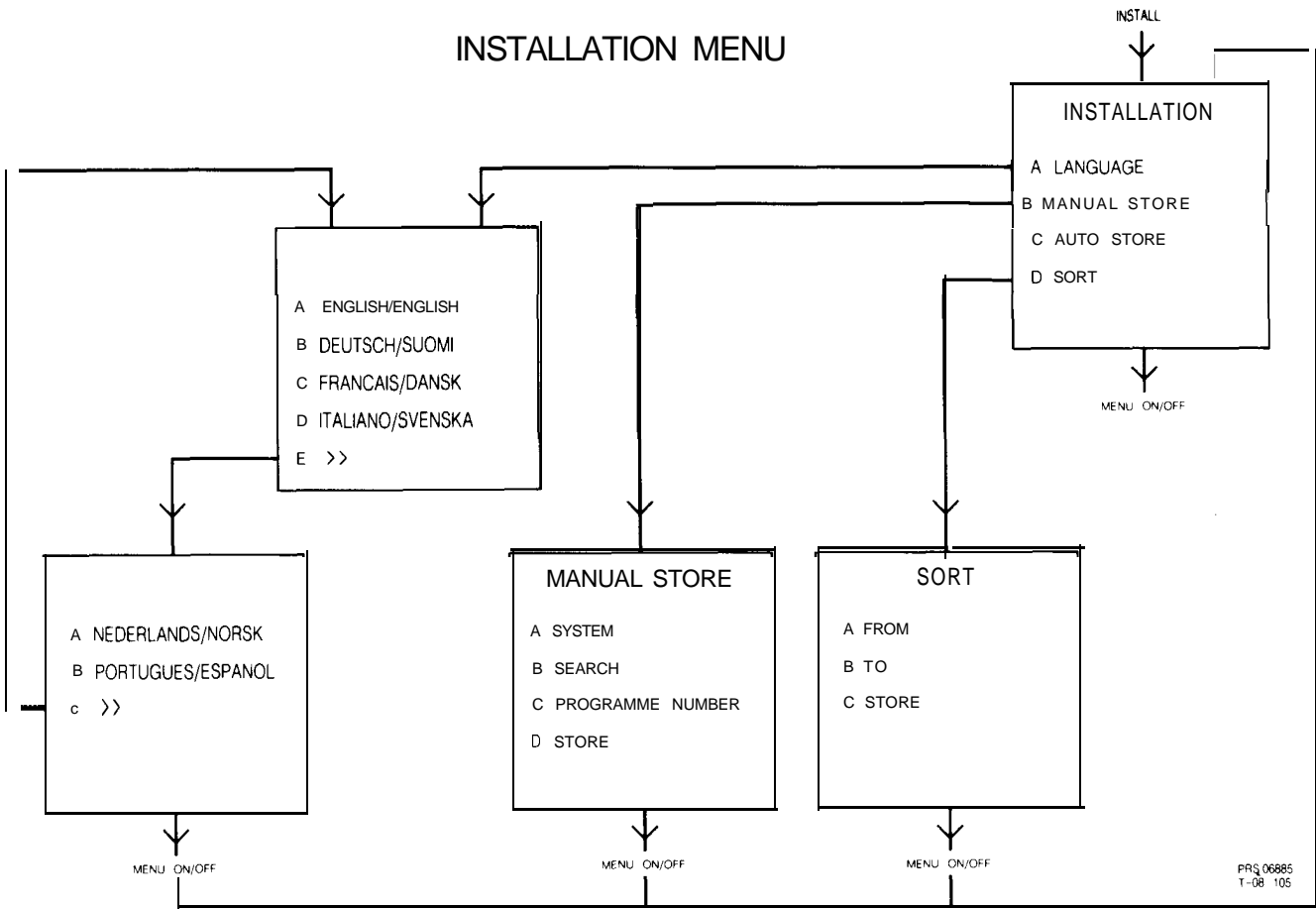
MAIN MENU STEREO



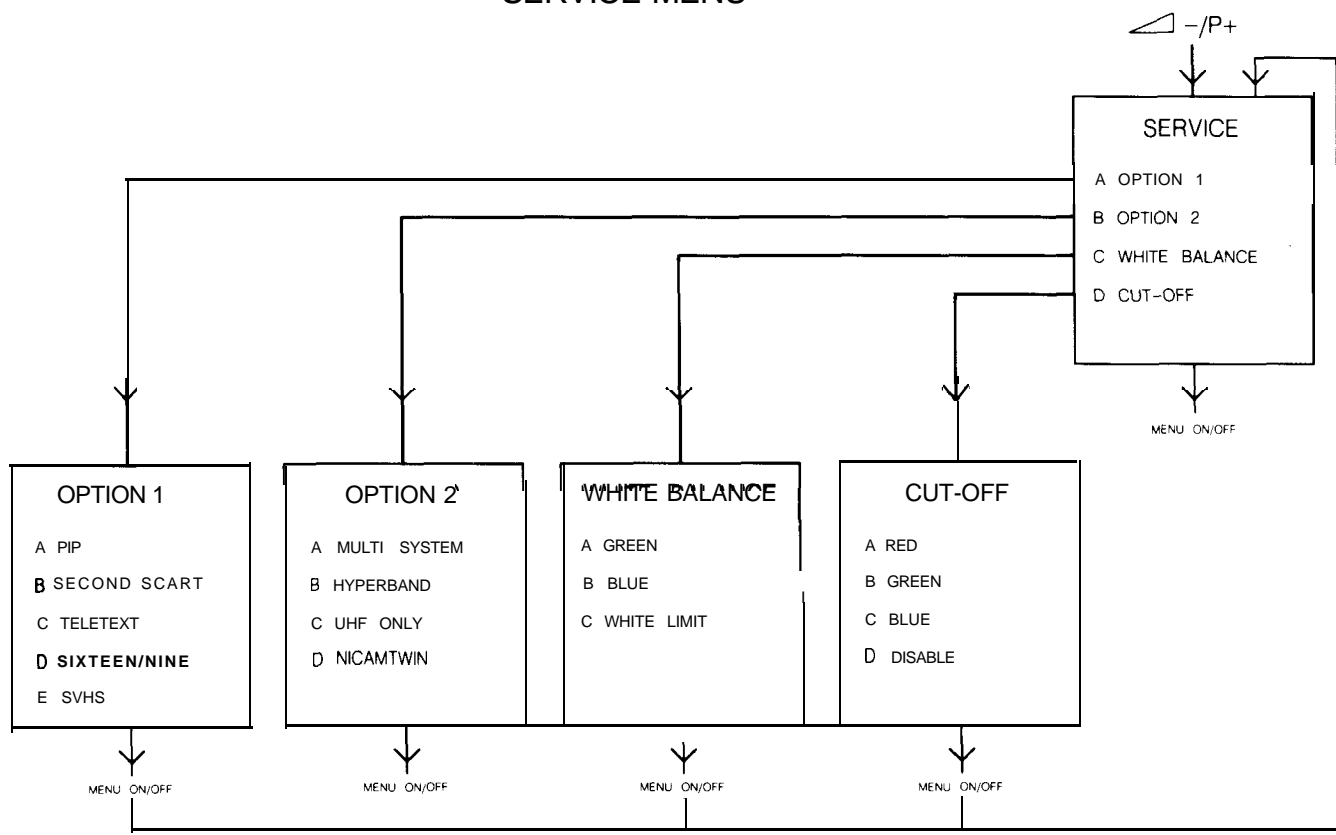
MAIN MENU MONO



INSTALLATION MENU



SERVICE MENU



Main c

3372	4
3373	4
3374	4
3375	4
3376	4
3380	4
3381	4
3394	4
3395	4
3450	4
3451	4
3452	4
3455	4
3456	4
3457	4
3458	4
3459	4
3460	4
3461	4
3463	4
3464	4
3465	4
3466	4
3467 ^{3,4}	4
3467 ^{1,2}	4
3468	4
3469	4
3470	4
3471 ^{1,2}	4
3471 ⁴	4
3471 ³	4
3473	4
3474	4
3475	4
3476	4
3477	4
3470	4
3483	4
3485	4
35013	4
3501 ^{1,2}	4
3501 ⁴	4
3502 ^{1,2}	4
3502 ^{3,4}	4
3503 ^{1,2}	4
3503 ^{3,4}	4
3504	4
3505	4
3506	4
3507 ^{1,2}	4
3507 ^{3,4}	4
3508	4
3509	4
3510	4
3511	4
3513	4
3514	4
3515	4
3516	4
3517	4
3519	4
3523	4
3529	4
3535 ^{3,4}	4
3535 ¹	4
3535 ²	4
3539 ^{3,4}	4
3539 ^{1,2}	4
3540	4
3542	4

Main Carrier


Main ca

Mechanical parts											
	4822 492 70871	spring wire	2241	4822 122 31947	100nF 20% 63V	2346	4822 122 31765	100pF 5% 50V			
	4822 404 31174	bracket EURO module	2242	4822 124 40214	1000µF 20% 25V	2347	4822 122 31769	18pF 5% 50V			
	4822 256 91766	Spring fix.	2243	4822 122 32863	22nF 80% 50V	2349	5322 122 31647	1nF 10% 63V			
103	4822 466 93111	insulator	2245	4822 122 32863	22nF 80% 50V	2350	4822 122 31797	22nF 10% 63V			
170	4822 466 30395	shield for µP	2246 ^{1b}	4822 124 40849	330µF 20% 16V	2351	4822 122 31797	22nF 10% 63V			
1010	4822 265 30389	2p male	2246	4822 124 41596	22µF 20% 50V	2352	5322 122 31647	1nF 10% 63V			
1011	4822 265 30389	2p male	2248	4822 124 40849	330µF 20% 16V	2353	4822 122 33496	100nF 10% 63V			
1012	4822 26530351	5p male	2249	4822 122 32863	22nF 80% 50V	2354	4822 124 40242	1µF 20% 63V			
1013	4822 26530378	4p male	2250	4822 121 41857	10nF 5% 250V	2355	4822 124 40849	330µF 20% 16V			
1014	4822 29040295	7p male	2251	4822 121 41857	10nF 5% 250V	2356	4822 122 31797	22nF 10% 63V			
1015	4822 265 40421	6p male	2252	4822 121 51252	470nF 5% 63V	2357	4822 122 31797	22nF 10% 63V			
1016	4822 26440207	3p male	2254	4822 121 51252	470nF 5% 63V	2358	4822 122 31797	22nF 10% 63V			
1017	4822 26750591	6p male	2255	4822 121 51252	470nF 5% 63V	2359	4822 122 31765	100pF 5% 50V			
1018	482226450148	8p male	2256	4822 122 32142	270pF 5% 63V	2360	4822 122 33496	100nF 10% 63V			
1019	4822 26440239	3p male	2257	4822 122 32142	270pF 5% 63V	2361	4822 122 33496	100nF 10% 63V			
1022	4822 267 40666	3p male	2262	4822 122 32142	270pF 5% 63V	2362	4822 122 33496	100nF 10% 63V			
1023	4822 264 40207	3p male	2263	4822 122 32142	270pF 5% 63V	2363	4822 122 31972	39pF 5% 50V			
1024	4822 264 40207	3p male	2266	4822 121 51252	470nF 5% 63V	2365	5322 121 42661	330nF 5% 63V			
1027	4822 265 30351	5p male	2266	4822 124 41796	22µF 20% 16V	2366	4822 124 41566	3,3µF 20% 50V			
1028A	4822 265 30877	3p	2300	4822 122 32482	22pF 5% 63V	2367	4822 124 41578	6,8µF 20% 50V			
1029	4822 265 41086	9p male	2301	4822 122 31773	560pF 5% 50V	2368	4822 122 32139	12pF 5% 63V			
1032	4822 290 40283	5p male	2303	4822 122 32142	270pF 5% 63V	2370	4822 121 42408	220nF 5% 63V			
1035	4822 267 20387	SVHS-connector	2304 ⁷	4822 122 31773	560pF 5% 50V	2371	4822 122 31825	27pF 10% 50V			
1039	4822 267 31014	bushing	2303	4822 122 32142	270pF 5% 63V	2372	4822 122 31825	27pF 10% 50V			
1040	4822 267 40878	3p male	2304	4822 122 32999	2,2nF 5%	2373	4822 122 31825	27pF 10% 50V			
1041	4822 276 50354	switch	2305	4822 126 10324	33pF 63V	2374	4822 122 31772	47pF 5% 50V			
1042A	4822 256 30274	Fuse holder	2306	4822 122 31965	220pF 5% 63V	2375	4822 122 31765	100pF 5% 50V			
1047	4822 267 30631	cinch fem. 2p	2307	4822 122 31965	220pF 5% 63V	2376	4822 122 31765	100pF 5% 50V			
1049	4822 267 60243	euro connector	2308	4822 122 32442	10nF 50V	2380	4822 122 31766	120pF 5% 50V			
	4822 267 30546	6p female	2309	4822 122 32442	10nF 50V	2381	4822 122 31766	120pF 6% 50V			
	4822 267 50637	10p female	2310	4822 122 32442	10nF 50V	2384	4822 122 31772	47pF 5% 50V			
Jarious			2311	4822 122 33496	100nF 10% 63V	2385	4822 122 31765	100pF 5% 50V			
1000	482221010436	U944C/IEC	2312	4822 122 32442	10nF 50V	2386	4822 122 33481	1,8nF 15%			
1000	4822221050124	UV916E/IEC	2313	4822 125 50045	20pF	2450	4822 124 80059	100µF 20% 25V			
1002	4822526 10405	ferrite bead	2314	5322 121 42661	330nF 5% 63V	2451	4822 122 33496	100nF 10% 63V			
1003	4822212 23667	infra red receiver	2315 ^{2,4}	4822 122 32139	12pF 5% 63V	2455 ²	5322 122 33446	3,3nF 10% 63V			
1004	482252610405	ferrite bead	2315 ^{1,3}	4822 122 32504	15pF 5% 50V	2456	4822 124 80059	100µF 20% 25V			
1240	4822071 51602	fuse T1.6A	2316	4822 122 31825	27pF 10% 50V	2457	4822 122 33496	100nF 10% 63V			
1242	4822071 51602	fuse T1.6A	2317	4822 122 33466	82pF 2%	2458	4822 121 42937	2,7nF 1% 250V			
1300	4822 242 70304	8,867MHz	2318	4822 122 32875	100pF 5% 50V	2459	4822 122 33496	100nF 10% 63V			
1534	4822071 53151	fuse T315mA	2319	4822 122 31825	27pF 10% 50V	2460'	4822 122 31644	2,2nF 10% 63V			
1559	4822071 51002	fuse T1A	2320 ^{2,4}	4822 12231772	47pF 5% 50V	2460	4822 122 32442	10nF 50V			
1580	482207151602	fuse T1.6A	2320 ^{1,3}	4822 122 31839	82pF 10% 50V	2461	5322 122 31647	1nF 10% 63V			
1600	482207032002	fuse T2A	2321	4822 12231797	22nF 10% 63V	2462	4822 122 31797	22nF 10% 63V			
1601	4822 071 52502	fuse T2.5A	2322	4822 12231797	22nF 10% 63V	2464	4822 122 33496	100nF 10% 63V			
1702	482224270392	6MHz	2323	4822 122 32542	47nF 10% 63V	2465	4822 124 40849	330µF 20% 16V			
			2325	4822 12232542	47nF 10% 63V	2466	4822 124 22403	10µF 20% 16V			
			2326 ^{7,8}	4822051 10008	jumper	2467	4822 122 33496	100nF 10% 63V			
			2326	4822 12233496	100nF 10% 63V	2468	4822 124 40244	2,2µF 20% 63V			
			2328 ^{1,3}	4822 12141856	22nF 5% 250V	2469	4822 124 41596	22µF 20% 50V			
			2328 ^{2,4}	4822 12142408	220nF 5% 63V	2470	4822 122 31772	47pF 5% 50V			
			2329 ^{1,3}	4822 12141856	22nF 5% 250V	2471	5322 121 42661	330nF 5% 63V			
			2329 ^{2,4}	4822 12142408	220nF 5% 63V	2473	5322 121 42661	330nF 5% 63V			
			2330	4822 12231765	100pF 5% 50V	2475	4822 122 33496	100nF 10% 63V			
			2331	4822 12231765	100pF 5% 50V	2506	4822 122 31727	470pF 5% 63V			
			2332	5322 12231842	330pF 5% 63V	2500 ⁴	4822 122 31771	390pF 5% 50V			
			2333	4822 12142408	220nF 5% 63V	2500 ^{1,2}	4822 122 31965	220pF 5% 63V			
			2334	4822 12231965	220pF 5% 63V	2501	4822 122 33481	1,8nF 15%			
			2335	4822 12231965	220pF 5% 63V	2502	5322 124 41381	22µF 20% 50V			
			2336	4822 122 31797	22nF 10% 63V	2505	4822 122 32542	47nF 10% 63V			
			2337	4822 122 31797	22nF 10% 63V	2506 ³	4822 124 80062	470µF 20% 35V			
			2338	4822 122 31797	22nF 10% 63V	2506 ⁴	4822 124 80063	680µF 20% 35V			
			2339	4822 122 33496	100nF 10% 63V	2506 ^{1,2}	4822 124 80065	1000µF 20% 50V			
			2340	4822 122 31797	22nF 10% 63V	2507	4822 122 31797	22nF 10% 63V			
			2341	4822 122 31797	22nF 10% 63V	2509	5322 124 41379	2,2µF 20% 50V			
			2342	4822 122 33496	100nF 10% 63V	2524	4822 124 42167	4,7µF 20% 50V			
			2343	4822 12233496	100nF 10% 63V	2538	4822 121 43856	4,7nF 5% 250V			
			2344	4822 12233496	100nF 10% 63V	2539	4822 124 80057	330µF 20% 16V			
			2345	4822 12231797	22nF 10% 63V						

2545 ^{1,2}	4E
2545 ^{3,4}	4E
2546 ¹	4E
2546 ²	4E
2546 ³	4E
2546 ⁴	53
2547 ^{1,2}	4E
2547 ³	53
2547 ⁴	53
2549'	4E
2549 2	4E
2550 ^{1,2}	4E
2550 ³	4E
2550 ⁴	53
2551	4E
2559	4E
2560 ¹	4E
2570	4E
2574	4E
2580	4E
2585 ²	4E
2585'	53
2588 ^{1,2}	4E
2588 4	53
2590	53
2600 ¹	4E
2605 ^{1,2}	4E
2605 ^{3,4}	4E
2607 ⁴	4E
2611	53
2617 ^{3,4}	4E
2617 ^{1,2}	4E
2620	53
2625	4E
2626	4E
2629	4E
2630 ^{3,4}	4E
2630 ^{1,2}	4E
2631 ^{3,4}	4E
2631 ^{1,2}	4E
2632	4E
2636	4E
2640	4E
2641	4E
2646	4E
2649	4E
2650	4E
2652	5:
2653	5:
2658	5:
2660	4E
2661	4E
2662 ^{3,4}	4E
2662 ^{1,2}	4E
2663 ^{3,4}	4E
2663 ^{1,2}	4E
2664	5:
2670	4E
2671	4E
2675 ^{3,4}	4E
2675 ^{1,2}	4E
2676	53
2704	4E
2705	4E
2706	53
2707	4E
2708	4E
2709	4E
2710	4E
2711	4E

Main carrier

Main carrier

545A ^{1,2}	4822	126	10202	1,5nF 10% 2KV	2712	4822	122	31825	27pF 10% 50V	3263	4822	051	10008	jumper	3372	4
545A ^{3,4}	4822	126	11539	1,2nF 10% 2KV	2713	4822	124	41525	100µF 20% 25V	3263 ^b	4822051	10562	5k6 2% 0,25W	3373	4	
546A ¹	4822	121	43061	8,2nF 5% 1,6KV	2714	4822	122	31766	120pF 5% 50V	3264	4822	051	10008	jumper	3374	4
546A ²	4822	121	43076	11nF 5% 1600V	2715	4822	122	31766	120pF 5% 50V	3264 ^b	4822	051	10562	5k6 2% 0,25W	3375	4
546A ³	4822	121	70109	7,5nF 5% 1,6KV	2716	4822	122	33496	100nF 10% 63V	3265	4822	050	21008	1 Ω 1% 0,6W	3376	4
546A ⁴	5322	121	44345	15nF 5% 1,6KV	2717	4822	122	31644	2,2nF 10% 63V	3266	4822	050	21008	1 Ω 1% 0,6W	3380	4
547A ^{1,2}	4822	121	40488	22nF 10% 400V	2718	4822	122	33496	100nF 10% 63V	3267	4822	051	10103	10k 2% 0,25W	3381	4
547A ³	5322	121	44151	33nF 10% 400V	2719	5322	121	42386	100nF 5% 63V	3268	4822	051	10103	10k 2% 0,25W	3394	4
547A ⁴	5322	121	44219	47nF 10% 400V	2721	4822	122	32442	10nF 50V	3300	4822	051	10822	8k2 2% 0,25W	3395	4
549'	4822	121	42073	390nF 10% 400V	2722	4822	122	31947	100nF 20% 63V	3301	4822	051	10272	2k7 2% 0,25W	3450	4
549 ²	4822	121	42074	470nF 10% 400V	2781	4822	122	33496	100nF 10% 63V	3302	4822	051	20222	2k2 5% 0,1W	3451	4
550A ^{1,2}	4822	12151527		390nF 5% 250V	2850	4822	12441506	47µF 20% 16V	3303 ^{7,8}	4822051	10122	1 k2 2% 0,25W	3452	4		
550A ³	4822	12151601		470nF 10% 200V	2851	4822	122	31766	120pF 5% 50V	3303	4822	051	10332	3k3 2% 0,25W	3455	4
550A ⁴	5322	12144128		680nF 10% 250V	2852	4822	122	33496	100nF 10% 63V	3304	4822051	10182	1 k8 2% 0,25W	3456	4	
551	4822	12480069		1µF 20% 160V	2853	4822	122	31784	4,7nF 10% 50V	3305	4822051	10431	430Ω 2% 0,25W	3457	4	
559	4822	12480059		100µF 20% 25V	2854	4822	122	33496	100nF 10% 63V	3306	4822051	10103	10k 2% 0,25W	3458	4	
560A	4822	12151408		33nF 10% 250V	2875	5322	12142386	100nF 5% 63V	3307 ^{2,4}	4822	051	10681	680Ω 2% 0,25W	3459	4	
570	4822	12480071		22µF 20% 160V					3307''	4822	051	10821	820Ω 2% 0,25W	3460	4	
1574	4822	122	10175	2,2nF 10% 50V					3308	4822051	10331	330Ω 2% 0,25W	3461	4		
1580	4822	124	80061	1000µF 20% 25V	3001A	4822052	10399	39Ω 5% 0,33W	3309	4822051	10331	330Ω 2% 0,25W	3463	4		
585 ²	4822	124	80058	68µF 20% 25V	3002	4822051	10223	22k 2% 0,25W	3310	4822051	10512	5k1 2% 0,25W	3464	4		
1585'	5322	12421731		10µF 20% 50V	3003	482205120222		2k2 5% 0,1W	3311	4822051	10391	390Ω 2% 0,25W	3465	4		
588 ^{1,2}	4822	122	31644	2,2nF 10% 63V	3010	4822051	10102	1 k 2% 0,25W	3312	4822	101	11186	470Ω 30% 0,1W	3466	4	
588 ⁴	5322	122	31647	1nF 10% 63V	3218	4822	11652228	680Ω 5% 0,5W	3313 ^{7,8}	4822	051	10103	10k 2% 0,25W	3467 ^{3,4}	4	
1590	5322	12142498		680nF 5% 63V	3219	4822	11652228	680Ω 5% 0,5W	3313	4822051	10682	6k8 2% 0,25W	3467 ^{1,2}	4		
600A	4822	12441531		470nF 10% 250V	3220	4822051	10392	3k9 2% 0,25W	3314	4822051	10103	10k 2% 0,25W	3468	4		
605A ^{1,2}	4822	124	80053	220µF 20% 385V	3221	4822050	11002	1k 1% 0,4W	3318	4822051	10472	4k7 2% 0,25W	3469	4		
605A ^{3,4}	4822	124	80134	150µF 20% 400V	3222	4822	11652234	100k 5% 0,5W	3323	4822	11652272	330k 5% 0,5W	3470	4		
607A	4822	12151469		1nF 400V	3224	4822	11652256	2k2 5% 0,5W	3325	4822051	10271	270Ω 2% 0,25W	3471 ^{1,2}	4		
611	5322	12441299		68µF 20% 25V	3225	4822051	10272	2k7 2% 0,25W	3326	4822051	10271	270Ω 2% 0,25W	3471 ⁴	4		
617 ^{3,4}	4822	121	51252	470nF 5% 63V	3226	4822051	10272	2k7 2% 0,25W	3327	4822050	11202	1k2 1% 0,4W	3471 ³	4		
617 ^{1,2}	4822	121	51319	1µF 10% 63V	3227	4822051	10333	33k 2% 0,25W	3328	482205110473		47k 2% 0,25W	3473	4		
620	5322	12142465		68nF 5% 63V	3227	4822051	10333	33k 2% 0,25W	3330	4822	051	10108	10Ω 2% 0,25W	3474	4	
625	4822	12240593		1nF 10% 1KV	3228	4822051	10151	150Ω 2% 0,25W	3331	4822051	10109	10Ω 2% 0,25W	3475	4		
626	4822	12240594		470pF 10% 1KV	3229	4822051	10562	5k6 2% 0,25W	3332	482205023901		390Ω 1% 0,6W	3476	4		
629	4822	122	31784	4,7nF 10% 50V	3230	4822	11652257	22k 5% 0,5W	3334	482205021809		18Ω 1% 0,6W	3477	4		
630 ^{3,4}	4822	124	23418	47µF 200V	3231	4822051	10472	4k7 2% 0,25W	3335	482211652184		18Ω 5% 0,5W	3478	4		
630 ^{1,2}	4822	124	80055	100µF 10% 160V	3232 ^b	4822051	10008	jumper	3336 ^{2,4}	4822	052	10189	18Ω 5% 0,33W	3483	4	
631 ^{3,4}	4822	124	23418	47µF 200V	3232	4822051	10101	100Ω 2% 0,25W	3336 ^{1,3}	4822	052	10279	27Ω 5% 0,33W	3485	4	
631 ^{1,2}	4822	124	80055	100µF 10% 160V	3233	4822051	10103	10k 2% 0,25W	3337 ^{2,4}	4822	052	10189	18Ω 5% 0,33W	3501 ^{1,2}	4	
632	4822	12611382		1nF 10% 1KV	3234	4822051	10223	22k 2% 0,25W	3337 ^{1,3}	4822	052	10279	27Ω 5% 0,33W	3501 ⁴	4	
636	4822	122	31644	2,2nF 10% 63V	3235	4822	051	10223	22k 2% 0,25W	3338	4822050	11002	1k 1% 0,4W	3502 ^{1,2}	4	
640	4822	124	80061	1000µF 20% 25V	3236	4822051	10122	1 k2 2% 0,25W	3339	4822	11652243		1k5 5% 0,5W	3502 ^{3,4}	4	
641	4822	124	80061	1000µF 20% 25V	3237	4822	051	10122	1k 2% 0,25W	3340	482205011002		1k 1% 0,4W	3503 ^{1,2}	4	
646	4822	12480054		15µF 20% 50V	3237''	4822	051	10562	5k6 2% 0,25W	3341	4822051	10103	10k 2% 0,25W	3503 ^{3,4}	4	
649	4822	122	33496	100nF 10% 63V	3238	4822051	10122	1 k2 2% 0,25W	3342 ^{2,4}	4822	051	10102	1k 2% 0,25W	3504	4	
650	4822	122	33496	100nF 10% 63V	3239	4822	11652207	1 k2 5% 0,5W	3342 ^{1,3}	4822	051	10122	1k2 2% 0,25W	3505	4	
652	5322	122	32331	1nF 10% 100V	3240A	4822052	10828	8Ω 5% 0,33W	3343	4822051	10104	100k 2% 0,25W	3506	4		
653	5322	122	32331	1nF 10% 100V	3241A	4822	052	10828	8Ω 5% 0,33W	3344	4822051	10103	10k 2% 0,25W	3507 ^{1,2}	4	
658	5322	122	32838	82nF 10% 63V	3242	4822051	10333	33k 2% 0,25W	3347	4822	11652219		330Ω 5% 0,5W	3507 ^{3,4}	4	
660	4822	124	80061	1000µF 20% 25V	3243	4822051	10333	33k 2% 0,25W	3348	4822	116	52219	330Ω 5% 0,5W	3507 ^{1,2}	4	
661	4822	12441506		47µF 20% 16V	3244	4822051	10103	10k 2% 0,25W	3349	4822	116	52219	330Ω 5% 0,5W	3508	4	
662 ^{3,4}	4822	122	31965	220pF 5% 63V	3245	4822051	10103	10k 2% 0,25W	3350	482205011002		1k 1% 0,4W	3509	4		
662 ^{1,2}	4822	122	32142	270pF 5% 63V	3246	4822	050	23301	330Ω 1% 0,6W	3351	4822	11652263	2k7 5% 0,5W	3510	4	
663 ^{3,4}	4822	122	31765	100pF 5% 50V	3247	4822	11652175	100Ω 5% 0,5W	3352	4822	116	52263	2k7 5% 0,5W	3511	4	
663 ^{1,2}	4822	122	31839	82pF 10% 50V	3248	482205023301		330Ω 1% 0,6W	3353	4822	11652263		2k7 5% 0,5W	3513	4	
664	5322	12441379		2,2µF 20% 50V	3249	4822	11652175	100Ω 5% 0,5W	3354	4822051	10221	220Ω 2% 0,25W	3514	4		
670	4822	122	31766	120pF 5% 50V	3249 ^b	4822	11652193	39Ω 5% 0,5W	3357	4822051	10102	1k 2% 0,25W	3515	4		
671	4822	12142408		220nF 5% 63V	3250	4822050	11002	1k 1% 0,4W	3358	4822051	10331	330Ω 2% 0,25W	3516	4		
675''	4822	124	80064	680µF 20% 50V	3251	4822	050	11002	1k 1% 0,4W	3359	4822051	10331	330Ω 2% 0,25W	3517	4	
675 ^{1,2}	4822	124	80065	1000µF 20% 50V	3253	482211652211		150Ω 5% 0,5W	3360	4822051	10102	1k 2% 0,25W	3519	4		
676	5322	122	32331	1nF 10% 100V	3254	4822	11652211	150Ω 5% 0,5W	3361	4822051	10102	1k 2% 0,25W	3523	4		
2704	4822															








Main carrier

3372	4822 051 10472	4k7 2 % 0,25W	3543	4822 051 10101	100Ω 2 % 0,25W	3701	4822 051 10273	27k 2 % 0,25W
3373	4822 051 10102	1k 2 % 0,25W	35452	4822 111 70178	120Ω 5 % 5W	3702	4822 051 10153	15k 2 % 0,25W
3374	4822 050 22702	27k 1 % 0,6W	3545'	4822 113 80565	180Ω 5 % 5W	3707	4822 051 10182	1k8 2 % 0,25W
3375	4822 051 10331	330Ω 2 % 0,25W	3545 ^{3,4}	4822 116 83686	680Ω 5 % 5W	3718	4822 116 52215	220Ω 5 % 0,5W
3376	4822 051 10331	330Ω 2 % 0,25W	3549	4822 116 52251	18k 5 % 0,5W	3719	4822 116 52215	220Ω 5 % 0,5W
3380	4822 051 10101	100Ω 2 % 0,25W	3550	4822 116 52251	18k 5 % 0,5W	3720	4822 116 52215	220Ω 5 % 0,5W
3381	4822 051 10101	100Ω 2 % 0,25W	3551	4822 050 25601	560Ω 1 % 0,6W	3721	4822 051 10103	10k 2 % 0,25W
3394	4822 051 10683	68k 2 % 0,25W	3552	4822 050 25601	560f-1 1 % 0,6W	3722	4822 051 10103	10k 2 % 0,25W
3395	4822 051 10683	68k 2 % 0,25W	3553▲	4822 052 10561	560Ω 5 % 0,33W	3723	4822 051 10103	10k 2 % 0,25W
3450	4822 116 52238	12k 5 % 0,5W	3560 ²	4822 116 52247	16k 5 % 0,5W	3724	4822 051 10103	10k 2 % 0,25W
3451	4822 116 52175	100Ω 5 % 0,5W	3560 ⁴	4822 116 52254	20k 5 % 0,5W	3725	4822 051 10103	10k 2 % 0,25W
3452	4822 116 52175	100Ω 5 % 0,5W	3560 ³	4822 116 52277	39k 5 % 0,5W	3726	4822 051 10103	10k 2 % 0,25W
3455	4822 051 10102	1k 2 % 0,25W	3570▲	4822 052 10688	6118 5 % 0,33W	3727	4822 116 52175	100Ω 5 % 0,5W
3456	4822 051 10682	6k8 2 % 0,25W	3582	4822 050 25601	560Ω 1 % 0,6W	3728	4822 116 52175	100Ω 5 % 0,5W
3457	4822 101 11191	10k 30%LIN 0,1W	3585▲	4822 052 10159	15Ω 5 % 0,33W	3729	4822 051 10911	910Ω 2 % 0,25W
3458	4822 051 10303	30k 2 % 0,25W	3588▲	4822 052 10561	560Ω 5 % 0,33W	3730	4822 051 10221	220Ω 2 % 0,25W
3459	4822 051 10823	82k 2 % 0,25W	3589	4822 050 21502	1k5 1 % 0,6W	3732 ^{1,2}	4822 053 11103	10k 5 % 2W
3460	4822 051 10333	33k 2 % 0,25W	3590	4822 116 52234	100k 5 % 0,5W	3732 ^{3,4}	4822 053 11332	3k3 5 % 2W
3461	4822 101 11193	470k 30 % 0,1W	3591	4822 051 10474	470k 2 % 0,25W	3733 ^{3,4}	4822 050 23902	3k9 1 % 0,6W
3463	4822 116 52251	18k 5 % 0,5W	3592	4822 051 10681	680Ω 2 % 0,25W	3733 ^{1,2}	4822 116 52283	4k7 5 % 0,5W
3464	4822 051 10123	12k 2 % 0,25W	3603▲	4822 053 21915	9M1 5 % 0,5W	3734 ^{3,4}	4822 050 23902	3k9 1 % 0,6W
3465	4822 051 10394	390k 2 % 0,25W	3604	4822 113 80593	1,5Ω 10 % 5W	3734 ^{1,2}	4822 116 52283	4k7 5 % 0,5W
3466	4822 051 10681	680Ω 2 % 0,25W	3605▲	4822 052 10102	1k 5 % 0,33W	3736	4822 116 52175	100Ω 5 % 0,5W
3467 ^{3,4}	4822 050 21205	1M2 1 % 0,6W	36068	4822 052 10102	1k 5 % 0,33W	3737	4822 050 11002	1k 1 % 0,4W
3467 ^{1,2}	4822 116 80692	2M2 5 % 0,2W	3610▲ ^{1,2}	4822 052 10159	15Ω 5 % 0,33W	3741	4822 051 10123	12k 2 % 0,25W
3468	4822 051 10682	6k8 2 % 0,25W	3610▲ ^{3,4}	4822 052 10688	608 5 % 0,33W	3742	4822 051 10332	3k3 2 % 0,25W
3469	4822 051 10229	22Ω 2 % 0,25W	3617	4822 116 52213	180Ω 5 % 0,5W	3743	4822 051 10472	4k7 2 % 0,25W
3470	4822 116 52231	820Ω 5 % 0,5W	3619	4822 116 52182	15Ω 5 % 0,5W	3747	4822 051 10273	27k 2 % 0,25W
3471 ^{1,2}	4822 116 52239	120k 5 % 0,5W	3620	4822 053 12121	120Ω 5 % 3W	3748	4822 051 10273	27k 2 % 0,25W
3471 ⁴	4822 116 52245	150k 5 % 0,5W	3621 ^{1,2}	4822 053 12279	27Ω 5 % 3W	3749	4822 051 10273	27k 2 % 0,25W
3471 ³	4822 116 52258	220k 5 % 0,5W	3621 ^{3,4}	4822 053 12479	47Ω 5 % 3W	3750	4822 051 10273	27k 2 % 0,25W
3473	4822 116 52265	270k 5 % 0,5W	3622	4822 053 12479	47Ω 5 % 3W	3751	4822 051 10153	15k 2 % 0,25W
3474	4822 051 10392	3k9 2 % 0,25W	3624	4822 053 10334	330k 5 % 1W	3752	4822 116 52244	15k 5 % 0,5W
3475	4822 051 10184	180k 2 % 0,25W	3625	4822 116 52292	560k 5 % 0,5W	3753	4822 051 10153	15k 2 % 0,25W
3476	4822 051 10683	68k 2 % 0,25W	3626	4822 113 80565	180Ω 5 % 5W	3754	4822 051 10153	15k 2 % 0,25W
3477	4822 051 10474	470k 2 % 0,25W	3628	4822 051 10334	330k 2 % 0,25W	3755 ^b	4822 051 10008	jumper
3478	4822 051 10393	39k 2 % 0,25W	3629	4822 051 10682	6k8 2 % 0,25W	3755	4822 051 10101	100Ω 2 % 0,25W
3483	4822 051 10479	47Ω 2 % 0,25W	3631 ^{3,4}	4822 050 21204	120k 1 % 0,6W	3756	4822 051 10101	100Ω 2 % 0,25W
3485	4822 051 20222	2k2 5 % 0,1W	3631 ^{1,2}	4822 050 22204	220k 1 % 0,6W	3757	4822 051 20222	2k2 5 % 0,1W
35013	4822 051 10101	100Ω 2 % 0,25W	3634 ^{3,4}	4822 116 52263	2k7 5 % 0,5W	3758	4822 051 10392	3k9 2 % 0,25W
3501 ^{1,2}	4822 051 10759	75Ω 2 % 0,25W	3634 ^{1,2}	4822 116 52269	3k3 5 % 0,5W	3759	4822 116 52175	100Ω 5 % 0,5W
3501 ⁴	4822 051 10829	82Ω 2 % 0,25W	3635	4822 101 11187	1k 30%LIN 0,1W	3768	4822 051 10105	1M 5 % 0,25W
3502 ^{1,2}	4822 053 10122	1k2 5 % 1W	3636	4822 051 10224	220k 2 % 0,25W	3770	4822 051 10473	47k 2 % 0,25W
3502 ^{3,4}	4822 053 10272	2k7 5 % 1W	3637	4822 116 52175	100Ω 5 % 0,5W	3771	4822 116 52251	18k 5 % 0,5W
3503▲ ^{1,2}	4822 052 10128	102 5 % 0,33W	3647''	4822 050 23303	33k 1 % 0,6W	3772	4822 116 52276	3k9 5 % 0,5W
3503▲ ^{3,4}	4822 052 10478	407 5 % 0,33W	3647	4822 050 23603	36k 1 % 0,6W	3775	4822 051 10101	100Ω 2 % 0,25W
3504	4822 100 11684	100Ω 10 % 0,1W	3648	4822 051 10273	27k 2 % 0,25W	3776	4822 051 10562	5k6 2 % 0,25W
3505	4822 051 10471	470Ω 2 % 0,25W	3649	4822 050 23309	33Ω 1 % 0,6W	3777	4822 116 52264	27k 5 % 0,5W
3506	4822 116 52242	130k 5 % 0,5W	3658▲	4822 052 10688	608 5 % 0,33W	3778	4822 116 52291	56k 5 % 0,5W
3507 ^{1,2}	4822 116 52233	10k 5 % 0,5W	3659	4822 051 10181	180Ω 2 % 0,25W	3779	4822 116 52233	10k 5 % 0,5W
3507 ^{3,4}	4822 116 52238	12k 5 % 0,5W	3660	4822 051 10101	100Ω 2 % 0,25W	3780	4822 051 10103	10k 2 % 0,25W
3508	4822 051 10228	2Ω 5 % 0,25W	3661	4822 051 10361	360Ω 2 % 0,25W	3781	4822 051 10472	4k7 2 % 0,25W
3509	4822 051 10228	221 5 % 0,25W	3662	4822 051 10221	220Ω 2 % 0,25W	3849	4822 116 52218	300Ω 5 % 0,5W
3510	4822 051 10228	2Ω 5 % 0,25W	3663	4822 051 10562	5k6 2 % 0,25W	3850	4822 116 52189	30Ω 5 % 0,5W
3511	4822 051 10228	2Ω 5 % 0,25W	3664	4822 051 10272	2k7 2 % 0,25W	3851	4822 116 80747	75Ω 5 % 0,125W
3513	4822 050 25601	560Ω 1 % 0,6W	3665	4822 051 10103	10k 2 % 0,25W	3852	4822 116 80747	75Ω 5 % 0,125W
3514	4822 051 10182	1k8 2 % 0,25W	3666	4822 051 10102	1k 2 % 0,25W	3853	4822 116 80747	75Ω 5 % 0,125W
3515	4822 051 10228	2Ω 5 % 0,25W	3667	4822 051 10361	360Ω 2 % 0,25W	3854	4822 116 80747	75Ω 5 % 0,125W
3516	4822 101 11192	22k 30 % 0,1W	3668	4822 051 10102	1k 2 % 0,25W	3855	4822 116 52201	75Ω 5 % 0,5W
3517	4822 051 10228	2Ω 5 % 0,25W	3669	4822 051 10102	1k 2 % 0,25W	3856	4822 051 10101	100Ω 2 % 0,25W
3519	4822 051 10228	2Ω 5 % 0,25W	3670	4822 051 10303	30k 2 % 0,25W	3857	4822 051 10331	330Ω 2 % 0,25W
3523	4822 051 10228	2Ω 5 % 0,25W	3671	4822 050 11002	1k 1 % 0,4W	3858	4822 051 10331	330Ω 2 % 0,25W
3529	4822 051 10228	2Ω 5 % 0,25W	3672	4822 051 10103	10k 2 % 0,25W	3859	4822 051 10331	330Ω 2 % 0,25W
3535 ^{3,4}	4822 051 10151	150Ω 2 % 0,25W	3673	4822 051 10102	4k7 2 % 0,25W	3860	4822 116 80176	1Ω 5 % 0,5W
3535'	4822 051 10221	220Ω 2 % 0,25W	3674	4822 051 10102	1k 2 % 0,25W	3861	4822 051 10562	5k6 2 % 0,25W
35352	4822 051 51201	120Ω 1 % 0,25W	3675 ^{1,2}	4822 116 52239	120k 5 % 0,5W	1866	4822 051 10472	4k7 2 % 0,25W
3539 ^{3,4}	4822 053 20434	430k 5 % 0,25W	3675 ^{3,4}	4822 116 52284	47k 5 % 0,5W	3867	4822 116 80747	75Ω 5 % 0,125W
3539 ^{1,2}	4822 053 20684	680k 5 % 0,25W	3676	4822 051 10103	10k 2 % 0,25W	3868	4822 116 80747	75Ω 5 % 0,125W
3540	4822 051 51201	120Ω 1 % 0,25W	1677	4822 051 10118	1Ω 1 5 % 0,25W	3869	4822 11652175	100Ω 5 % 0,5W
3542	4822 050 28201	820Ω 1 % 0,6W				3870	4822 051 10103	10k 2 % 0,25W

Mains module

CRT module

CRT mo

4822 212 23664 mains module:		1 4822 212 30057 CRT Black Matrix		3315 4822 051 10124 120k 2% 0,25W		3525 ⁴ 482	
Mechanical parts		2 4822 212 30058 CRT Black Line		3316 4822 051 10124 120k 2% 0,25W		3525 482	
0010A 4822 265 30389 2p male		3 4822 212 30059 CRT Mini Neck		3331 4822 051 10131 130Ω 2% 0,25W		3526 482	
0032A 4822 265 30389 2p male		4 4822 212 30061 CRT Narrow Neck		3332 4822 051 10362 3k6 2% 0,25W		3526 ⁴ 4 8 2	
0033A 4822 265.30877 3p male.		Mechanical parts		3332 ² 4822 051 20222 2k2 5% 0,1W		3527' 482	
		0017 4822 290 40283 5p male		3333 ³ 4822 051 10272 2k7 2% 0,25W		3527 ³ 482	
:26018 4822 121 40487 100nF 10% 400V		0018 4822 267 40878 3p male		3333 4822 116 52263 2k 7 5% 0,5W		3527 ² 482	
:2602 4822 126 11141 2,2nF 10% 1KV		0019 4822 265 30378 4p male		3334 4822 116 52239 120k 5% 0,5W		3528 ^{3,4} 4 8 2	
:2604 4822 126 11141 2,2nF 10% 1kV		0020 4822 290 40295 7p male		3338 4822 051 10118 1Ω 1 5% 0,25W		3528 482	
		002 13 4822 255 70251 CRT socket		33383 4822 051 10479 47Ω 2% 0,25W		3529 482	
:36018 4822 116 40211 PTC/NTC		002 1 4822 255 70261 CRT socket		3340 4822 116 52219 330215% 0,5W		3529 ^{3,4} 4 8 2	
:3607 4822 050 23901 390Ω 1% 0,6W		4822 320 20188 focus cable		3341 4822 053 12153 15k 5% 3W		35304 482	
		4822 267 31168 3p female		3342 4822 052 10271 270Ω 5% 0,33W		3530 482	
5600A 4822 157 63073 filter		4822 267 50824 4p female		3343 4822 052 10271 270Ω 5% 0,33W		35314 482	
		4822 265 40252 7p female		3344 4822 050 21502 1k5 1% 0,6W		3531 482	
6602 4822 13031933 1N5061		4822 290 40287 5p female		3345 4822 051 10681 680Ω 2% 0,25W		3532 482	
6603 4822 130 31933 1N5061		4822 492 70871 spring		3361 4822 116 52208 130Ω 5% 0,5W		3533 4 8 2	
5604 4822 13031933 1N5061				3362 4822 051 10362 3k6 2% 0,25W		3534 482	
5605 4822 13031933 1N5061		2301 ⁴ 4822 122 31769 18pF 5% 50V		3362 ² 4822 051 20222 2k2 5% 0,1W		3571 482	
		2301 4822 122 32482 22pF 5% 63V		3363 4822 051 10272 2k7 2% 0,25W		3572 482	
		2301 ² 4822 126 10324 33pF 63V		3364 4822 051 10223 22k 2% 0,25W		3575 482	
		2331' 4822 122 31769 18pF 5% 50V		3368 4822 051 10118 1Ω 1 5% 0,25W		3576 4 8 2	
		2331' 4822 122 31825 27pF 10% 50V		3368 ² 4822 051 10479 47Ω 2% 0,25W		3576' 482	
		2331" 4822 122 32482 22pF 5% 63V		3370 4822 116 52219 330Ω 5% 0,5W		3576 ² 4 8 2	
		2331 ⁴ 4822 122 32504 15pF 5% 50V		3371 ² 4822 053 12103 10k 5% 3W		3578 482	
		2344 ³ 4822 124 21208 4,7μF 20% 50V		3371 4822 053 12153 15k 5% 3W		3580 482	
		2344 4822 124 40246 4,7μF 20% 63V		3372 4822 052 10271 270Ω 5% 0,33W		-Jumper	
		2361 ³ 4822 122 31769 18pF 5% 50V		3373 4822 052 10271 270Ω 5% 0,33W		4001 482	
		2361 ² 4822 122 31825 27pF 10% 50V		3374 4822 050 21502 1k5 1% 0,6W		4002 482	
		2361 ⁴ 4822 122 32139 12pF 5% 63V		3382 ² 4822 051 10392 3k9 2% 0,25W			
		2361' 4822 122 32504 15pF 5% 50V		3382 4822 051 10432 4k3 2% 0,25W		5401 ^{2,3} 4 8 2	
		2391 4822 121 43878 27pF 2% 500V		3383 4822 116 52284 47k 5% 0,5W		5401 ⁴ 482	
		2411 4822 124 80057 330μF 2 0% 16V		3384 4822 116 52277 39k 5% 0,5W		5401 ¹ 482	
		2421 4822 122 32482 22pF 5% 63V		3385 4822 051 10104 100k 2% 0,25W		5530 482	
		2431 4822 121 41689 100nF 10% 250V		3391 4822 116 52234 100k 5% 0,5W			
		2432 ³ 4822 124 80056 47μF 20% 16V		3392 4822 051 10103 10k 2% 0,25W			
		2432 5322 124 41381 22μF 20% 50V		3395 4822 051 10122 1k2 2% 0,25W			
		2433 5322 121 50885 33nF 5% 1KV		3396 4822 051 10124 120k 2% 0,25W			
		2434 5322 122 32334 220pF 1 0% 100V		3397 4822 051 10124 120k 2% 0,25W			
		2520 5322 124 41299 68μF 20% 25V		3411 4822 116 52249 1 k 8 5% 0,5W			
		2521 4822 122 32891 68nF 10% 63V		3413 4822 116 52218 300Ω 5% 0,5W			
		2522 5322 121 42661 330nF 5% 63V		3414 4822 051 10519 51Ω 2% 0,25W			
		2523 4822 122 33105 56nF 10% 63V		3415 4822 116 52218 300Ω 5% 0,5W			
		2526 ² 4822 122 32856 8,2nF 10% 63V		3421 ³ 4822 051 10104 100k 2% 0,25W			
		2526' 5322 122 31648 12nF 10% 50V		342 1 4822 051 10184 180k 2% 0,25W			
		2531 ⁴ 4822 121 42408 220nF 5% 63V		3422 4822 051 10682 6k8 2% 0,25W			
		2531 4822 121 43396 120nF 5% 63V		3423 4822 051 10105 1M 5% 0,25W			
		2532 4822 124 80066 1μF 20% 63V		3431 4822 052 10181 1800 5% 0,33W			
		2532 ⁴ 4822 124 80067 4,7μF 20% 63V		34314 4822 052 10271 270Ω 5% 0,33W			
		2533 4822 124 40242 1μF 20% 63V		3432 4822 052 10399 39Ω 5% 0,33W			
				3433 4822 052 10108 1Ω 5% 0,33W			
		3301 4822 051 10131 130Ω 2% 0,25W		3434 4822 050 21502 1 k5 1% 0,6W			
		3302 4822 051 10362 3k6 2% 0,25W		3435 4822 050 21502 1 k5 1% 0,6W			
		3302 ² 4822 051 20222 2k2 5% 0,1W		3436 4822 050 21805 1M 8 1% 0,6W			
		3303 4822 051 10272 2k7 2% 0,25W		3442 4822 116 52239 120k 5% 0,5W			
		3304 4822 116 52239 120k 5% 0,5W		3443 4822 051 10272 2k7 2% 0,25W			
		3304 4822 116 52239 120k 5% 0,5W		3446 4822 051 10683 68k 2% 0,25W			
		3309 4822 051 10118 1Ω 1 5% 0,25W		3447 4822 051 10152 1k5 2% 0,25W			
		3309 ² 4822 051 10479 47Ω 2% 0,25W		3448 4822 051 10152 1k5 2% 0,25W			
		3310 4822 116 52219 330Ω 5% 0,5W		3449 4822 051 10333 33k 2% 0,25W			
		33112 4822 053 12123 12k 5% 3W		34492 4822 051 10393 39k 2% 0,25W			
		3311 4822 053 12153 15k 5% 3W		3512 ² 4822 051 10109 10Ω 2% 0,25W			
		3312 4822 052 10271 270Ω 5% 0,33W		3512' 4822 051 10181 180Ω 2% 0,25W			
		3313 4822 052 10271 270Ω 5% 0,33W		35182 4822 051 10101 100Ω 2% 0,25W			
		3314 4822 050 21502 1k5 1% 0,6W		3518' 4822 051 10152 1k5 2% 0,25W			
				3520' 4822 116 52207 1 k 2 5% 0,5W			
				3526 4822 11652211 150Ω 5% 0,5W			
				3521 4822 101 20902 4k 7 10% 0,05W			
				3522 4822 051 10152 1k5 2% 0,25W			
				3524 4822 051 10683 68k 2% 0,25W			
						7302 ^{1,2} 4 8 2	
						7302 ^{3,4} 4 8 2	
						7303 482	
						7304 482	
						7305 482	
						7331 ^{1,2} 4 8 2	
						7331 ^{3,4} 4 8 2	
						7333 482	
						7334 482	
						7335 482	
						7345 532	
						7361 ^{1,2} 4 8 2	
						7361 ^{3,4} 4 8 2	
						7363 482	
						7364 482	
						7365 482	
						7383 482	
						7391 482	
						7402A 5 3 2	
						7411 482	
						7421 482	

CRT module

3525 ⁴	4822 100 20169	10k 10% 0,05W
3525	4822 100 20644	22k 10% 0,05W
3526	4822 051 10125	1M 2 5% 0,25W
3526 ⁴	4822 051 10563	56k 2% 0,25W
3527 ¹	4822 051 10104	100k 2% 0,25W
3527 ³	4822 051 10563	56k 2% 0,25W
3527 ²	4822 051 10823	82k 2% 0,25W
3528 ^{3,4}	4822 051 10681	680Ω 2% 0,25W
3528	4822 051 20222	2k2 5% 0,1W
3529	4822 051 10008	jumper
3529 ^{3,4}	4822 051 10102	1k 2% 0,25W
3530 ⁴	4822 051 10008	jumper
3530	4822 051 10102	1k 2% 0,25W ⁴
3531 ⁴	4823 051 10008	jumper
3531	4822 051 10104	100k 2% 0,25W
3532	4822 051 10103	10k 2% 0,25W
3533	4822 116 52303	8k 2 5% 0,5W
3534	4822 052 10828	8Ω 2 5% 0,33W
3571	4822 051 10273	27k 2% 0,25W
3572	4822 051 10153	15k 2% 0,25W
3575	4822 051 10182	1k8 2% 0,25W
3576 ⁴	4822 051 10101	100Ω 2% 0,25W
3576 ¹	4822 051 10151	150Ω 2% 0,25W
3576 ²	4822 051 51201	120Ω 1% 0,25W
3578	4822 116 52245	150k 5% 0,5W
3580	4822 051 10103	10k 2% 0,25W
Jumper		
41001	4822 051 10008	jumper
41002	4822 051 10008	jumper
Inductor		
5401 ^{2,3}	4822 156 20915	33μH
5401 ⁴	4822 157 63788	18μH 10%
5401 ¹	4822 158 10563	82μH 7.5%
5530	4822 152 20559	
Diode		
63301	4822 130 80877	BAV103
6331	4822 130 80877	BAV103
63345	4822 130 81015	LLZ-C 10
63361	4822 130 80877	BAV103
63382	4822 130 80877	BAV103
6411	4822 130 32831	BZX79-F3V0
6421	4822 130 80446	LL4 148
6519	4822 130 80446	LL4148
Resistor		
7302 ^{1,2}	4822 130 41773	BF869
7302 ^{3,4}	4822 130 41782	BF422
7303	4822 130 61207	BC848
7304	4822 130 41782	BF422
7305	4822 130 41646	BF423
7331 ^{1,2}	4822 130 41773	BF869
7331 ^{3,4}	4822 130 41782	BF422
7333	4822 130 61207	BC848
7334	4822 130 41782	BF422
7335	4822 130 41646	BF423
7345	5322 130 42012	BC858
7361 ^{1,2}	4822 130 41773	BF869
7361 ^{3,4}	4822 130 41782	BF422
7363	4822 130 61207	BC848
7364	4822 130 41782	BF422
7365	4822 130 41646	BF423
7383	4822 130 41782	BF422
7391	4822 130 41646	BF423
7402 ^Δ	5322 130 41982	BC848B
7411	4822 130 40938	BC548
742.1	4822 130 42513	.BC858C

Euro module

16	4822 4822 2 212 12 30074 30075	EuroEuro module module	EC
Mechanical parts			
0023	4822 26540442	10p male	
0026	4822 26540442	10p male	
0030	4822 26541086	9p male	
0032	4822 26740666	3p male	
0048	4822 267 60247	euro connector	
0100	4822 25691879	holder	
0050	4822 26751084	9p female	
005 1	4822 29040285	3p female	
Capacitor			
2800	4822 121 51252	470nF 5% 63V	
2801	4822 121 51252	470nF 5% 63V	
2802	4822 121 51252	470nF 5% 63V	
2803	4822 121 51252	470nF 5% 63V	
2804	4822 122 33496	100nF 10% 63V	
2805	4822 122 33496	100nF 10% 63V	
2806	4822 122 33496	100nF 10% 63V	
2807	4822 12441506	47μF 20% 16V	
2810	4822 122 32142	270pF 5% 63V	
2811	4822 122 32142	270pF 5% 63V	
2812	4822 122 33496	100nF 10% 63V	
2813	4822 122 32542	47nF 10% 63V	
2814	4822 122 31759	18nF	
2815	4822 122 33496	100nF 10% 63V	
2816	4822 122 33496	100nF 10% 63V	
2817	4822 122 33496	100nF 10% 63V	
2818	4822 122 33496	100nF 10% 63V	
2819	4822 12441525	100μF 20% 25V	
2820	4822 12142408	220nF 5% 63V	
2821	4822 12440433	47μF 20% 25V	
2822	4822 12440435	10μF 20% 50V	
2823	4822 122 33496	100nF 10% 63V	
2831	4822 12440272	33μF 20% 16V	
2833	4822 122 33496	100nF 10% 63V	
2834	4822 122 33496	100nF 10% 63V	
Resistor			
3800	4822 11652189	30115% 0,5W	
3801	4822 11680747	75Ω 5% 0,125W	
3802	4822 11652211	150Ω 5% 0,5W	
3803	4822 116 52211	150Ω 5% 0,5W	
3804	4822050 11002	1k 1% 0,4W	
3805	4822050 11002	1k 1% 0,4W	
3806	4822051 10334	330k 2% 0,25W	
3807	4822051 10334	330k 2% 0,25W	
3808	4822051 10334	330k 2% 0,25W	
3809	4822051 10334	330k 2% 0,25W	
3810	4822051 10682	6k8 2% 0,25W	
3811	4822051 20222	2k2 5% 0,1W	
3812	4822051 10331	330Ω 2% 0,25W	
3813	4822 11652201	75Ω 5% 0,5W	
3814	4822051 10152	1k5 2% 0,25W	
3815	4822051 10472	4k7 2% 0,25W	
3816	4822 11652296	6k 8 5% 0,5W	
3817	4822 11652224	470Ω 5% 0,5W	
3818	4822 11652224	470Ω 5% 0,5W	
3819	4822051 10008	jumper	
3820	4822051 10681	680Ω 2% 0,25W	
382 1	4822051 10008	jumper	
3822	4822 051 10681	680Ω 2% 0,25W	
3823	4822051 10331	330Ω 2% 0,25W	
3824	4822051 10331	330Ω 2% 0,25W	
3825	4822051 10223	22k 2% 0,25W	
3829	4822051 10102	1k 2% 0,25W	
3830	4822051 10683	68k 2% 0,25W	
3831	4822051 10123	12k 2% 0,25W	

Stereo I

2201	48
2202	48
2203	48
2204	48
2205	48
2206	48
2207	48
2208	48
2209	48
2210	48
2211	48
2212	49
2213	49
2214	48
2215	48
2216	48
2217	48
2218	48
2219	48
2220	53
2221	53
2222	48
2223	53
3012	48
3013	48
3014	48
3015	48
3016	48
3017	48
3019	48
3020	48
3021	48
3030	48
3031	48
3035	48
3036	48
3037	48
3038	48
3039	48
3040	48
3041	48
3042	48
3043	48
3044	48
3046	48
3047	48
3048	48
3049	48
3050	48
3051	48
3052	48
3053	48
3055	48
3056	48
3058	48
3060	48
3061	48
3062	48
3063	48
3064	48
3065	48
3066	48
3081	48
3105	48
3106	48
3107	48
3108	48
3109	48

Euro module

Mono IF/sound module

Mono IF

3832	4822 051 10102	1k 2% 0,25W
3833	4822 051 10279	27Ω 2% 0,25W
3835 ¹⁶	4822 051 10221	220Ω 2% 0,25W
3836 ¹⁵	4822 051 10102	1k 2% 0,25W
3836	4822 051 10271	270Ω 2% 0,25W
31837	4822 052 10278	207 5% 0,33W
3838	4822 116 80747	75Ω 5% 0,125W

Jumper

4842	4822 051 10008	jumper
4844	4822 051 10008	jumper
4845	4822 051 10008	jumper
4847	4822 051 10008	jumper
4848	4822 051 10008	jumper
4849	4822 051 10008	jumper



5800	4822 15751462	10μH
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3800	4822 130 80954	LLZ-C5V6
6801	4822 130 80446	LL4148
3803	4822 130 30621	1N4148



7800	5322 13044921	BD943
7801	5322209 10576	40538
7802	5322 209 10576	40538
7820	4822 13061207	BC848
7821	5322 13042136	BC848C
7823	4822 13061207	BC848
7824	5322 13042136	BC848C

15) Non PIP
16) PIP

5	4822 212 30064	IF MONO BGDK
6	482221230065	IF MONO BGLI
7	482221230066	IF MONO BG
8	482221230067	IF MONO I

Various

1010 ⁸	4822 242 70936	OFW31952
1010 ¹	4822 242 72374	OFWG1961
1010 ⁶	482224281156	OFWG1965
1010 ⁵	482224281186	OFWK2954
1042 ⁹	4822 15330025	6MHz
1042	482224272211	5,5MHz
1043 ⁶	4822 15330025	6MHz
10435	4822 242 71375	6,5MHz
1043 ⁹	4822 24271841	6,0MHz
1102	482224270714	5,5MHz
1103 ⁶	482224271841	6,0MHz
1103 ⁵	4822242 72059	6,5MHz
1150	4822 242 81157	OFWL9453



2011	4822 124 40435	10μF 20% 50V
2012	4822 124 41577	4,7μF 20% 50V
2013	4822 122 31784	4,7nF 10% 50V
2014 ⁶	4822 122 31784	4,7nF 10% 50V
2014	4822 122 31797	22nF 10% 63V
2015	5322 121 42498	680nF 5% 63V
2016	4822 122 31784	4,7nF 10% 50V
2017	4822 122 33496	100nF 10% 63V
2018	4822 121 51252	470nF 5% 63V
2019	4822 122 31784	4,7nF 10% 50V
2035	4822 122 32507	6,8pF 5% 50V
2036	4822 122 31766	120pF 5% 50V
2037	4822 122 31766	120pF 5% 50V
2038	4822 122 31784	4,7nF 10% 50V
2039	4822 122 32504	15pF 5% 50V
2040	4822 122 31784	4,7nF 10% 50V
2041	4822 122 31784	4,7nF 10% 50V
2042	4822 122 32139	12pF 5% 63V
2044	4822 122 31797	22nF 10% 63V
2047	4822 122 33496	100nF 10% 63V
2048	4822 124 41506	47μF 20% 16V
2049	4822 122 33496	100nF 10% 63V
2050	4822 124 40849	330μF 20% 16V
2055	4822 122 31972	39pF 5% 50V
2056	4822 124 40435	10μF 20% 50V
2057	4822 122 31981	33nF 50V
2058	4822 122 31797	22nF 10% 63V
2059	4822 124 41566	3,3μF 20% 50V
2060	4822 122 31797	22nF 10% 63V
2080	4822 122 33464	56pF 2%
2081	4822 122 31794	180pF 2% 50V
2002	4822 122 32087	1,8pF 5% 50V
2113	4822 124 41596	22μF 20% 50V
2114	4822 122 31784	4,7nF 10% 50V
2115	4822 124 41577	4,7μF 20% 50V
2116	4822 124 40435	10μF 20% 50V
2117	4822 124 41576	2,2μF 20% 50V
2118	4822 124 40432	1500μF 20% 25V
2124	4822 122 32442	10nF 50V
2125	4822 124 40195	150μF 20% 16V
2126	4822 121 43898	8,2nF 10% 50V
2127	5322 121 42661	330nF 5% 63V
2129	5322 121 42661	330nF 5% 63V
2130	5322 121 42661	330nF 5% 63V
2131	4822 122 31797	22nF 10% 63V
2132	4822 122 31797	22nF 10% 63V
2133	4822 122 31797	22nF 10% 63V
2134	4822 124 41596	22μF 20% 50V

2135	4822 121 42408	220nF 5% 63V
2136	5322 121 42661	330nF 5% 63V
2137 ¹	4822 122 31746	1000pF 5% 50V
2137	4822 126 11381	820pF 2%
2137 ⁵	4822 126 12075	680pF 2% 63V
2138 ⁶	4822 122 31771	390pF 5% 50V
21385	4822 126 12154	560pF 2% 50V
2139 ⁵	4822 122 31771	390pF 5% 50V
2139 ⁶	4822 126 12155	1nF 2% 50V
2141	4822 124 41577	4,7μF 20% 50V
2143	4822 122 31797	22nF 10% 63V
2150	4822 121 42408	220nF 5% 63V
2151	4822 124 40195	150μF 20% 16V
2160	4822 122 31784	4,7nF 10% 50V



3012	4822 051 10562	5k6 2% 0,25W
3013	4822 051 10273	27k 2% 0,25W
3014	4822 051 10823	82k 2% 0,25W
3015 ⁶	4822 051 10104	100k 2% 0,25W
3015	4822 051 10473	47k 2% 0,25W
3016	4822 100 11819	100k 30% 0,1W
3017	4822 051 10823	82k 2% 0,25W
3019	4822 051 10473	47k 2% 0,25W
3020	4822 051 10273	27k 2% 0,25W
3021	4822 051 10223	22k 2% 0,25W
3030	4822 051 10223	22k 2% 0,25W
3031	4822 051 10474	470k 2% 0,25W
3036	4822 051 10472	4k7 2% 0,25W
3037	4822 051 10392	3k9 2% 0,25W
3038	4822 051 10472	4k7 2% 0,25W
3039	4822 051 10392	3k9 2% 0,25W
3040	4822 051 10472	4k7 2% 0,25W
3041	4822 051 10221	220Ω 2% 0,25W
3042 ⁶	4822 051 10101	100Ω 2% 0,25W
3042 ⁵	4822 051 10221	220Ω 2% 0,25W
3042	4822 051 51201	120Ω 1% 0,25W
3043	4822 116 52175	100Ω 5% 0,5W
3044	4822 051 10271	270Ω 2% 0,25W
3046	4822 051 10681	680Ω 2% 0,25W
3047	4822 051 10822	8k2 2% 0,25W
3048	4822 101 11188	2k 30% LIN 0,1W
3049	4822 051 20183	18k 5% 0,1W
3050	4822 051 10272	2k7 2% 0,25W
3051	4822 051 10563	56k 2% 0,25W
3052 ^{5,6}	4822 051 10471	470Ω 2% 0,25W
3052 ¹	4822 051 10561	560Ω 2% 0,25W
3055	4822 051 10103	10k 2% 0,25W
3056	4822 051 10471	470Ω 2% 0,25W
3058	4822 051 10682	6k8 2% 0,25W
3060	4822 051 10471	470Ω 2% 0,25W
3061	4822 051 10333	33k 2% 0,25W
3062	4822 051 10563	56k 2% 0,25W
3063	4822 051 10272	2k7 2% 0,25W
3064	4822 051 10563	56k 2% 0,25W
3065	4822 051 10563	56k 2% 0,25W
3066	4822 051 10824	820k 2% 0,25W
3067	4822 051 10681	680Ω 2% 0,25W
3067 ⁶	4822 051 20222	2k2 5% 0,1W
0 6 8	4822 051 10392	3k9 2% 0,25W
3080 ⁶	4822 051 10332	3k3 2% 0,25W
3080 ⁵	4822 051 10472	4k7 2% 0,25W
3080 ⁶	4822 051 10682	6k8 2% 0,25W
3080 ¹	4822 051 20222	2k2 5% 0,1W
3081	4822 051 10829	82Ω 2% 0,25W
3104	4822 052 10479	47Ω 5% 0,33W
3105	4822 053 11271	270Ω 5% 2W
3107	4822 051 10151	150Ω 2% 0,25W
3108	4822 051 10333	33k 2% 0,25W
3109	4822 051 10223	22k 2% 0,25W

3110	48
3111	48
3112	48
3113	48
3115	48
3116	48
3117	48
3118 ^{5,4}	8
3118 ^{6,4}	8
3118	48
3119	48
3120	46
3121	48
3122	48
3123 ^{5,7,4}	8
3123 ^{6,4}	8
3124	48
3125	48
3126	48
3127	48
3129	48
3130	48
3131	48
3132	48
3140	48
3141	48
3142	48
3143	48
3144	48
3150	48
3151	48
3152	48
3153	48
3154	48

Jumper	
41010	48
4102	



5010	48
5010 ^{6,4}	8
5035	48
5036 ^{6,4}	8
5036	48
5037	48
5038	48
5039	48
5041 ^{5,4}	8
5041 ^{6,4}	8
5041	48
5042 ^{7,8,4}	8
5042 ^{5,6,4}	8
5080	48
5105	48
5150	48



6036	48
6037	48
6038	48
6039	48
6040	48
6041	48
6042	48
6043	48
6105	48
6106	48
6108	48

Mono IF/sound module

3110	4822051	10562	5k6 2 % 0,25W
3111	4822051	10562	5k6 2 % 0,25W
3112	4822051	10472	4k7 2 % 0,25W
3113	4822051	10562	5k6 2 % 0,25W
3115	4822051	10562	5k6 2 % 0,25W
3116	4822050	11002	1k 1 % 0,4W
3117	4822051	10104	100k 2 % 0,25W
3118 ⁵	4822051	10332	3k3 2 % 0,25W
3118 ⁶	4822051	10472	4k7 2 % 0,25W
3118	4822051	20222	2k2 5 % 0,1W
3119	4822051	10472	4k7 2 % 0,25W
3120	4822051	10472	4k7 2 % 0,25W
3121	4822051	10104	100k 2 % 0,25W
3122	4822051	10331	330Ω 2 % 0,25W
3123 ^{5,7}	4822051	10473	47k 2 % 0,25W
3123 ⁶	4822051	10563	56k 2 % 0,25W
3124	4822051	10103	10k 2 % 0,25W
3125	4822051	10103	10k 2 % 0,25W
3126	4822051	10153	15k 2 % 0,25W
3127	4822051	10153	15k 2 % 0,25W
3129	4822051	10224	220k 2 % 0,25W
3130	4822051	10682	6k8 2 % 0,25W
3131	4822051	10102	1k 2 % 0,25W
3132	4822051	10392	3k9 2 % 0,25W
3140	4822051	10153	15k 2 % 0,25W
3141	4822051	10392	3k9 2 % 0,25W
3142	4822051	10273	27k 2 % 0,25W
3143	4822051	10182	1k8 2 % 0,25W
3144	4822051	10182	1k8 2 % 0,25W
3150	4822051	10103	10k 2 % 0,25W
3151	4822051	20222	2k2 5 % 0,1W
3152	4822051	10103	10k 2 % 0,25W
3153	4822051	10103	10k 2 % 0,25W
3154	4822051	10103	10k 2 % 0,25W
Jumper			
4101..	4822051	10008	jumper
4102			
-			
5010	4822157	63081	0,56μH 20%
5010 ⁶	4822157	63858	0,39μH
5035	4822157	53534	0,34μH 5%
5036 ⁶	4822157	53609	0,36μH 5%
5036	4822157	63824	0,36μH 5% 38,9mH z
5037	4822157	53537	1,35μH 5%
5038	4822157	63076	1,2μH 5%
5039	4822157	52983	2N2
50415	4822157	5320251	18μH 10%
50416	4822157	52983	2N2
5041	4822157	53001	27μH 10%
5042 ^{7,8}	4822152	20677	
5042 ^{5,6}	4822157	53634	5,6μH 10%
5080	4822157	53539	0,27μH 5%
5105	4822157	52511	0,83μH
5150	4822157	62552	
▶			
6036	4822130	80446	LL4148
6037	4822130	80888	BA682
6038	4822130	80888	BA682
6039	4822130	30621	1N4148
6040	4822130	80446	LL4148
6041	4822130	80446	LL4148
6042	4822130	80446	LL4148
6043	4822130	80446	LL4148
6105	4822130	80888	BA682
6106	4822130	80888	BA682
6108	4822130	80888	BA682

6112	4822130	80884	LLZ-C5V1
6150	4822130	80888	BA682
6151	4822130	80888	BA682
			
7000	4822209	72812	TDA2549/C4
7030	5322130	42012	BC858
7031	4822130	61207	BC848
7035	4822130	44121	BC338
7040	5322130	42012	BC858
7041	4822130	61207	BC848
7100	4822209	63105	TDA3843/V3
7101	4822209	30278	TDA3827/V3
7102	4822130	61207	BC848
7103	5322130	42136	BC848C
7104	5322130	41982	808488
7150	4822130	61207	BC848
7151	4822130	61207	BC848
5) system BGBK			
6) system BGLI			
7) system BG			
8) system I			

Stereo IF/sound module





7	4822212	30069	IF STEREO BG
6	4822212	30072	IF STEREO BGLI
5	4822212	30073	IF STEREO BGDK
Various			
1010'	4822242	72554	OFWG3254
1010 ⁵	4822242	73936	OFWK3255
1010 ⁶	4822242	80205	OFWK3261
1042	4822242	72211	5,5MHz
1101	4822242	70485	5,74MHz
1102 ⁶	4822242	71713	6,0MHz
11025	4822242	72057	6,5MHz
1103	4822242	70714	5,5MHz
1150	4822242	81157	OFWL9453
1200	4822242	80208	10MHz
⚡			
2011	4822124	41506	47μF 20% 16V
2012	4822124	41577	4,7μF 20% 50V
2013	4822122	31784	4,7nF 10% 50V
2014	4822122	31797	22nF 10% 63V
2015	5322121	42498	680nF 5% 63V
2016	4822122	31784	4,7nF 10% 50V
2017	4822122	33496	100nF 10% 63V
2018	4822121	51252	470nF 5% 63V
2035	4822122	32506	5,6pF 5% 50V
2036	4822122	31784	4,7nF 10% 50V
2037	4822122	31784	4,7nF 10% 50V
2038	4822122	33496	100nF 10% 63V
2039	4822122	32083	8,2pF 5% 50V
2040	4822122	31784	4,7nF 10% 50V
2041	4822122	31784	4,7nF 10% 50V
2042	4822122	32139	12pF 5% 63V
2044	4822122	31797	22nF 10% 63V
2047	4822122	33496	100nF 10% 63V
2048	4822124	41506	47μF 20% 16V
2049	4822122	33496	100nF 10% 63V
2050	4822124	40849	330μF 20% 16V
2051	4822122	33496	100nF 10% 63V
2055	4822122	31972	39pF 5% 50V
2056	4822124	41576	2,2μF 20% 50V
2057	4822122	31981	33nF 50V
2058	4822122	31797	22nF 10% 63V
2059	4822124	41407	0,47μF 20% 63V
2080	4822122	33464	56pF 2%
2081	4822122	31794	180pF 2% 50V
2113	4822124	40435	10μF 20% 50V
2114	4822122	32442	10nF 50V
2115	4822124	41509	33μF 20% 35V
2117	4822124	41576	2,2μF 20% 50V
2118	4822124	41576	2,2μF 20% 50V
2119	4822122	31797	22nF 10% 63V
2120	4822124	41576	2,2μF 20% 50V
2123	4822124	40242	1μF 20% 63V
2123 ⁶	4822124	41577	4,7μF 20% 50V
2124	4822124	41576	2,2μF 20% 50V
2125	4822122	10527	910pF 2% 50V
2126	4822122	31784	4,7nF 10% 50V
2127	4822122	31746	1000pF 5% 50V
2127 ⁷	4822126	11381	820pF 2%
2127 ⁶	4822126	12075	680pF 2% 63V
2128 ⁵	4822122	10527	910pF 2% 50V
2128	4822126	11381	820pF 2%
2129 ⁶	4822122	31727	470pF 5% 63V
21295	4822122	33476	220pF 2% 50V
2130 ⁶	4822124	40195	150μF 20% 16V
2133	4822122	31797	22nF 10% 63V
2160	4822122	31784	4,7nF 10% 50V
2200	4822121	51252	470nF 5% 63V

Stereo I

2201	48
2202	48
2203	48
2204	48
2205	48
2206	48
2207	48
2208	48
2209	48
2210	48
2211	48
2212	48
2213	48
2214	48
2215	48
2216	48
2217	48
2218 ⁴	8
2219	48
2220	53
2221	53
2222	48
2223	53
□	
3012	48
3013	48
3014	48
3015	48
3016	48
3017	48
3019	48
3020	48
3021	48
3030	48
3031	48
3035	48
3036	48
3037	48
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3081	48
3105	48
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3107	48
3108	48
3109	48

Stereo IF/sound module

CR7

2201	4822 121 51252	470nF 5% 63V	3110	4822 051 10562	5k6 2% 0,25W	6109	4822 13080446	LL4148
2202	4822 121 51252	470nF 5% 63V	3112	4822051 10562	5k6 2% 0,25W	6150	4822 13080888	BA682
2203	482212231916	5,6nF 10% 63V	3113	4822051 10562	5k6 2% 0,25W	6151	4822 13080888	BA682
2204	482212142408	220nF 5% 63V	31155	4822051 10301	300Ω 2% 0,25W	6220	4822 13081015	LLZ-C 10
2205	4822 12231947	100nF 20% 63V	3115	4822051 10331	330Ω 2% 0,25W	 7000 482220972812 TDA2549/C4 7030 5322 13042012 BC858 7031 4822 130 61207 BC 848 7035 4822 13044121 BC 338 7040 532213042012 BC 858 7100 4822 209 63059 TDA3856/V3 7101 4822 209 63784 TDA3857/V3 7102 4822 130 61207 BC848 7104 4822 130 61207 BC848 7150 4822 13061207 BC848 7151 4822 130 61207 BC848 7200 4822 209 63967 TDA8417/V3 7220 4822209 63734 TDA8425/V7 7232 5322 13041982 BC848B 7233 4822 13042513 BC858C		
2206	4822 12151252	470nF 5% 63V	31176	4822051 10561	560Ω 2% 0,25W			
2207	4822 12151252	470nF 5% 63V	3117	4822 051 10681	680Ω 2% 0,25W			
2208	4822 12441509	33μF 20% 35V	3119	4822 051 10562	5k6 2% 0,25W			
2209	4822 12441509	33μF 20% 35V	3120	4822 051 10562	5k6 2% 0,25W			
2210	4822 122 31947	1 00nF 20% 63V	3121*	4822051 10272	2k7 2% 0,25W			
2211	4822 12440198	470μF 20% 16V	3121 ⁶	4822051 10562	5k6 2% 0,25W			
2212	4822 12440435	10μF 20% 50V	3122	4822051 10122	1 k2 2% 0,25W			
2213	4822 122 31782	15nF 10% 50V	3123	4822051 10561	560Ω 2% 0,25W			
2214	4822 122 31782	15nF 10% 50V	3124	4822051 10008	jumper			
2215	4822 122 31981	33nF 50V	3125	4822051 10102	1 k 2% 0,25W			
2216	4822 122 31916	5,6nF 10% 63V	3126	4822051 10102	1 k 2% 0,25W			
2217	4822 122 31981	33nF 50V	3127	4822051 10152	1 k5 2% 0,25W			
2218	4822 122 31916	5,6nF 10% 63V	3128	4822051 10182	1 k8 2% 0,25W			
2219	4822 12441577	4,7μF 20% 50V	3150	4822051 10103	10k 2% 0,25W			
2220	5322 12142498	680nF 5% 63V	3151	4822051 20222	2k2 5% 0,1W			
2221	5322 12142498	680nF 5% 63V	3152	4822051 10103	10k 2% 0,25W			
2222	4822 12441643	100μF 20% 16V	3153	4822051 10103	10k 2% 0,25W			
2223	5322 122 31647	1nF 10% 63V	3154	4822051 10103	10k 2% 0,25W			
			3200	4822 051 10331	330Ω 2% 0,25W	5)	system BGDK	
3012	4822051 10562	5k6 2% 0,25W	3201	4822051 10331	330Ω 2% 0,25W	6)	system BGLI	
3013	4822051 10273	27k 2% 0,25W	3202	4822051 10563	56k 2% 0,25W	7)	system BG	
3014	4822051 10823	82k 2% 0,25W	3203	4822051 10563	56k 2% 0,25W			
3015	4822 11652234	100k 5% 0,5W	3204	4822 101 11191	10k 3 0% 0.1W			
3016	4822 10011819	100k 3 0% 0,1W	3205	4822052 10229	22Ω 5% 0,33W			
3017	4822051 10823	82k 2% 0,25W	3206	4822051 10478	4Ω7 5% 0,25W			
3019	4822051 10473	47k 2% 0,25W	3207	4822051 10223	22k 2% 0,25W			
3020	4822051 10273	27k 2% 0,25W	3208	4822051 10272	2k7 2% 0,25W			
302 1	4822051 20183	18k 5% 0,1W	3209	4822051 10333	33k 2% 0,25W			
3030	4822051 10223	22k 2% 0,25W	3210	4822 050 11002	1k 1% 0,4W			
3031	4822051 10474	470k 2% 0,25W	3211	4822051 10101	100Ω 2% 0,25W			
3035	4822051 10682	6k8 2% 0,25W	3213	4822 116 52233	10k 5% 0,5W			
3036	4822051 10472	4k7 2% 0,25W	3214	4822051 10102	1k 2% 0,25W			
3037	4822051 10392	3k9 2% 0,25W	3215	4822051 10102	1k 2% 0,25W			
3038	4822051 10472	4k7 2% 0,25W	3216	4822051 10101	100Ω 2% 0,25W			
3039	4822051 10472	4k7 2% 0,25W	Jumper					
3040	4822051 10472	4k7 2% 0,25W	4010..	4822 051 10008	jumper			6345
3041	4822051 10221	220Ω 2% 0,25W	4205					6361
3042	4822051 10151	150Ω 2% 0,25W						6382
3042	482205151201	120Ω 1% 0,25W	5010	4822 15753302				
3043	4822 11652175	1 00n 5% 0,5W	5010 ⁶	4822 157 61898				
3044	482205110271	270Ω 2% 0,25W	5035	4822 157 53534	0,34μH 5%			
3046	4822 11652228	680Ω 5% 0,5W	5036*	4822 157 53609	0,36μH 5%			
3047	4822051 10822	8k2 2% 0,25W	5036	4822 157 63824	0,36μH 5%			
3048	4822 101 11188	2k 30%LIN 0,1W	5037	4822 157 53537	1,35μH 5%			
3049	4822051 20183	18k 5% 0,1W	5038	4822 157 63076	1,2μH 5%			
3050	4822 051 10272	2k7 2% 0,25W	5039	4822 152 20678	33μH 10%			
3051	4822 051 10563	56k 2% 0,25W	5080	4822 157 53539	0,27μH 5%			
3052	4822 051 10102	1 k 2% 0,25W	5103	4822 157 52511	0,83μH			
3053	4822 11652233	10k 5% 0,5W	5104	4822 157 63077	0,25μH 5%			
3055	4822051 10103	10k 2% 0,25W	5105	4822 157 52511	0,83μH			
3056	4822051 10471	470Ω 2% 0,25W	5042	4822 157 53634	5,6μH 10%			
3058	4822051 10472	4k7 2% 0,25W	5042 ⁶	4822 157 62767				
3060	4822051 10471	470Ω 2% 0,25W	5150	4822 157 63845	2,7μH			
3061	4822051 10124	120k 2% 0,25W						
3062	4822051 10563	56k 2% 0,25W	6037	4822 13080888	BA682			
3063	4822051 10272	2k7 2% 0,25W	6038	4822 13080888	BA682			
3064	4822051 10224	220k 2% 0,25W	6039	4822 13030621	1N4148			
3065	4822051 10124	120k 2% 0,25W	6040	4822 130 80446	LL4148			
3066	4822051 10824	820k 2% 0,25W	604 1	4822 130 80446	LL4148			
3081	4822 051 10569	56Ω 2% 0,25W	6042	4822 130 80446	LL4148			
3105	4822053 11121	120Ω 5% 2W	6043	4822 130 80446	LL4148			
3106	4822051 10561	560Ω 2% 0,25W	6106	4822 13080888	BA682			
3107	4822051 10102	1 k 2% 0,25W	6107	4822 13080888	BA682			
3108	4822051 10561	560Ω 2% 0,25W	6108	4822 13080888	BA682			
3109	4822051 10562	5k6 2% 0,25W						

3532

3572

3575

3576^d

6345

6361

6382

7365








7387

Nicom IF/sound module

	4822 212 30071	IF NICAM BG	2143	5322 122 31647	1nF 10% 63V	3052	4822 051 10102	1k 2% 0,25W
	4822 212 30068	IF NICAM I	2150	4822 122 32863	22nF 80% 50V	3055	4822 051 10103	10k 2% 0,25W
Various			2151	4822 124 41506	47µF 20% 16V	3056	4822 051 10471	4700 2% 0,25W
1010 ⁷	4822 242 72554	OFWG3254	2160	4822 122 31765	100pF 5% 50V	3058	4822 051 10682	6k8 2% 0,25W
1010 ⁹	4822 242 72553	OFWJ3251	2161	4822 122 31765	100pF 5% 50V	307 1	4822 051 10124	120k 2% 0,25W
1042 ⁷	4822 242 72211	5,5MWHZ	2168	4822 122 31947	100nF 20% 63V	3072	4822 051 10471	4700 2% 0,25W
1042 ⁹	4822 153 30025	6MHz	2169	4822 124 41506	47µF 20% 16V	3073	4822 051 10824	820k 2% 0,25W
1100	4822 242 70485	5,74MHz	2170 ⁷	4822 122 31782	15nF 10% 50V	3074	4822 051 10563	56k 2% 0,25W
1105 ⁷	4822 242 70714	5,5MHz	2170 ⁹	4822 122 31916	5,6nF 10% 63V	3075	4822 051 10272	2k7 2% 0,25W
1105 ⁹	4822 242 71713	6,0MHz	2171 ⁷	4822 122 31981	33nF 50V	3076	4822 051 10224	220k 2% 0,25W
11167	4822 242 72301	TH316BOM- 20800DAF	2171 ⁹	5322 122 31648	12nF 10% 50V	3077	4822 051 10124	120k 2% 0,25W
1116 ⁹	4822 242 72303	TH316BQM	2173	4822 122 31773	560pF 5% 50V	3078	4822 051 10102	1k 2% 0,25W
1127 ⁷	4822 242 81187	11,7MHz	2174	4822 122 33498	2,7nF 10% 63V	3079	4822 05-1 10101	100Ω 2% 0,25W
1127 ⁹	4822 242 81188	13,104MHz	2175	4822 122 32999	2,2N 5%	3100	4822 051 10561	560Ω 2% 0,25W
1138	4822 242 81189	17,472MHz	2176	4822 121 51252	470nF 5% 63V	3101	4822 051 10331	330Ω 2% 0,25W
1191	4822 071 54001	fuse T400mA	2177	4822 122 32863	22nF 80% 50V	3102	4822 051 10681	680Ω 2% 0,25W
1200	4822 242 80208	10MHz	2180 ⁷	4822 122 31782	15nF 10% 50V	3105	4822 051 10561	560Ω 2% 0,25W
			2180 ⁹	4822 122 31916	5,6nF 10% 63V	3106	4822 051 10561	560Ω 2% 0,25W
			2181	5322 122 31648	12nF 10% 50V	3107	4822 051 10122	1k2 2% 0,25W
			2181	4822 122 31981	33nF 50V	3108	4822 051 20222	2k2 5% 0,1W
			2183	4822 122 31773	560pF 5% 50V	3109	482205311121	120Ω 5% 2W
			2184	4822 122 33498	2,7nF 10% 63V	3110	4822 051 10102	1k 2% 0,25W
			2185	4822 122 31782	2,2nF 5% 63V	3116	4822 051 10471	470Ω 2% 0,25W
			2186	4822 122 31782	470nF 5% 63V	3122	4822 051 10471	470Ω 2% 0,25W
			2187	4822 122 32863	22nF 80% 50V	3123	4822 051 10332	3k3 2% 0,25W
			2188	4822 124 41506	47µF 20% 16V	3124	4822 051 10332	3k3 2% 0,25W
			2189	4822 122 32863	22nF 80% 50V	3125	4822 051 10223	22k 2% 0,25W
			2190	4822 122 31947	100nF 20% 63V	3127	4822 051 10104	100k 2% 0,25W
			2191	4822 124 41643	100µF 20% 16V	3128	4822 051 10223	22k 2% 0,25W
			2193	4822 124 40849	330µF 20% 16V	3129	4822 051 10103	10k 2% 0,25W
			2194	4822 122 31947	100nF 20% 63V	3130	4822 051 10223	22k 2% 0,25W
			2198	4822 121 51252	470nF 5% 63V	3131	4822 051 10392	3k9 2% 0,25W
			2200	4822 121 51252	470nF 5% 63V	3133	4822 051 10333	33k 2% 0,25W
			2201	4822 121 51252	470nF 5% 63V	3134	4822 051 10103	10k 2% 0,25W
			2202	4822 122 31766	120pF 5% 50V	3135	4822 051 10103	10k 2% 0,25W
			2203	4822 124 41509	33µF 20% 35V	3136	4822 051 10104	100k 2% 0,25W
			2204	4822 124 41509	33µF 20% 35V	3137	4822 051 10104	100k 2% 0,25W
			2205	4822 122 31947	100nF 20% 63V	3138	4822 051 10105	1M 5% 0,25W
			2207	4822 121 51252	470nF 5% 63V	3139	4822 051 10273	27k 2% 0,25W
			2209	4822 121 51252	470nF 5% 63V	3140	4822 051 10824	820k 2% 0,25W
			2210	4822 124 41577	4,7µF 20% 50V	3141	4822 051 10152	1k5 2% 0,25W
			2211	4822 121 42408	220nF 5% 63V	3142	4822 051 10103	10k 2% 0,25W
			2213	4822 124 40195	150µF 20% 16V	3143	4822 051 10102	1k 2% 0,25W
			2214	4822 122 31947	100nF 20% 63V	3150	4822 052 10278	2Ω 5% 0,33W
			2215	4822 124 41506	47µF 20% 16V	3158	4822 051 10473	47k 2% 0,25W
			2218	4822 122 31981	33nF 50V	3159	4822 051 10473	47k 2% 0,25W
			2217	6322 121 42498	680nF 5% 63V	3160	4822 051 10331	330Ω 2% 0,25W
			2218	4822 124 41643	100µF 20% 16V	3161	4822 051 10331	330Ω 2% 0,25W
			2218	5322 121 42498	680nF 5% 63V	3168	4822 052 10278	2Ω 5% 0,33W
			2220	4822 122 31916	5,6nF 10% 63V	31707	4822 051 10682	6k8 2% 0,25W
			2223	4822 122 31916	5,6nF 10% 63V	3170 ⁹	4822 051 20183	18k 5% 0,1W
			2224	4822 122 31782	33nF 10% 50V	3171 ⁷	4822 051 10122	1k2 2% 0,25W
			2225	4822 122 31782	15nF 10% 50V	31718	4822 051 10332	3k3 2% 0,25W
			2226	4822 122 31782	15nF 10% 50V	3172	4822 051 10472	4k7 2% 0,25W
						3173	4822 051 10472	4k7 2% 0,25W
			3012	4822 051 10562	5k6 2% 0,25W	3177 ⁷	4822 051 10682	6k8 2% 0,25W
			3013	4822 051 10273	27k 2% 0,25W	31778	4822 051 10472	4k7 2% 0,25W
			3014	4822 051 10823	82k 2% 0,25W	3180 ⁷	4822 051 10682	6k8 2% 0,25W
			3015	4822 051 10104	100k 2% 0,25W	3180 ⁹	4822 051 20183	18k 5% 0,1W
			3016	4822 100 11819	100k 30% 0,1W	3181 ⁷	4822 051 10122	1k2 2% 0,25W
			3019	4822 051 10473	47k 2% 0,25W	3181 ⁹	4822 051 10332	3k3 2% 0,25W
			3020	4822 051 10273	27k 2% 0,25W	3182	4822 051 10472	4k7 2% 0,25W
			302 1	4822 051 20183	18k 5% 0,1W	3183	4822 051 10472	4k7 2% 0,25W
			3030	4822 051 10223	22k 2% 0,25W	3188	4822 052 10109	10Ω 5% 0,33W
			3035	4822 051 10472	4k7 2% 0,25W	3190	4822 051 10471	470Ω 2% 0,25W
			304 1	4822 051 10221	220Ω 2% 0,25W	3200	4822 101 11191	10k 30% 0,1W
			3042 ⁷	4822 051 10151	150Ω 2% 0,25W	3201	4822 051 10822	8k2 2% 0,25W
			3042 ⁹	4822 051 10101	100Ω 2% 0,25W	3202	4822 051 10512	5k1 2% 0,25W
			3044	4822 051 10271	270Ω 2% 0,25W	3203	4822 051 10563	56k 2% 0,25W
			3047	4822 050 21001	100Ω 1% 0,6W	3204	4822 051 10563	56k 2% 0,25W

Nicam IF/sound module

TXT module

3205	4822052	10229	22Ω 5 % 0,33W		4822 212 30062	IVT TXT europe	3827	4822 116 52175	100Ω 5% 0,5W
3206	4822051	10331	330Ω 2 % 0,25W	10	4822 212 30063	IVT TXT nordic	3830	4822 051 10829	82Ω 2 % 0,25W
3208	4822051	10331	330Ω 2 % 0,25W	11	4822 2 12 30076	TXT spain	3831	4822 051 10821	820Ω 2 % 0,25W
3209	4822051	10103	10k 2 % 0,25W	12	4822 212 30077	TXT easteuropa	3832	4822 051 10102	1k 2 % 0,25W
3210	4822051	10102	1 k 2% 0,25W	13	4822 212 30078	TXT europe	3833	4822 051 10102	1k 2 % 0,25W
3213	4822051	10478	4Ω7 5 % 0,25W	14	4822 212 30079	TXT nordic	3834	4822 051 10681	680Ω 2 % 0,25W
3214	4822051	10223	22k 2 % 0,25W	Connectors			3835	4822 051 10103	10k 2 % 0,25W
3215	4822051	10272	2k7 2 % 0,25W		4822 265 40469	BTB AU 6P	3836	4822 051 10473	47k 2 % 0,25W
3216	4822051	10333	33k 2 % 0,25W		4822 265 40471	BTB AU 8P	3837	4822 051 10102	1k 2 % 0,25W
3217	4822051	10102	1 k 2% 0,25W	Various			3838	4822 051 10473	47k 2 % 0,25W
3218	4822 051	10101	100Ω 2 % 0,25W	1800	4822 242 81191	27MHz	3839	4822 051 10151	150Ω 2 % 0,25W
Jumper				1820	4822 242 71508	6MHz	3840	4822 051 10228	2Ω2 5 % 0,25W
4000 ⁷	4822 051	10393	39k 2 % 0,25W	1870	4822 071 53151	Fuse 315mA	3842	4822 051 10561	560Ω 2 % 0,25W
4000 ⁸	4822 051	10392	3k9 2 % 0,25W				3850	4822 116 52206	120Ω 5 % 0,5W
3010	4822	15753302		2801	4822 122 31797	22nF 10% 63V	3851	4822 051 10102	1k 2 % 0,25W
5035	4822	15753534	0,34μH 5 %	2802	4822 122 31746	1000pF 5% 50V	3852	4822 051 10102	1k 2 % 0,25W
5036	4822	157 63824	0,36μH 5 %	2803	4822 122 31774	56pF 5% 50V	3853	4822 116 52206	120Ω 5 % 0,5W
5042	4822	157 62767		2804	4822 122 32504	15pF 5% 50V	3854	4822 051 10102	1k 2 % 0,25W
5042	4822	157 53634	5,6μH 10%	2805	4822 122 33496	100nF 10% 63V	3855	4822 051 10102	1k 2 % 0,25W
5101	4822	15752511	0,83μH	1806	4822 122 33496	100nF 10% 63V	3856	4822 116 52206	120Ω 5 % 0,5W
5102	4822	15752511	0,83μH	2807	4822 122 33496	100nF 10% 63V	3857	4822 051 10102	1k 2 % 0,25W
5103	4822	157 63077	0,25μH 5 %	2808	4822 122 33496	100nF 10% 63V	3858	4822 051 10102	1k 2 % 0,25W
5123	4822	157 50975	1 mH	2810	4822 122 33496	100nF 10% 63V	3860	4822 051 10272	2k7 2 % 0,25W
5124	4822	15750975	1 mH	2820	4822 122 32504	15pF 5% 50V	3861	4822 051 10562	5k6 2 % 0,25W
				1821	4822 122 32504	15pF 5% 50V	3862	4822 051 10333	33k 2 % 0,25W
6070	4822	13080446	LL4148	2821	4822 126 10324	33pF 63V	3863	4822 051 10223	22k 2 % 0,25W
6071	4822	130 80446	LL4148	2823	4822 122 33496	100nF 10% 63V	3864	4822 051 10103	10k 2 % 0,25W
6072	4822	13080446	LL4148	2825	4822 122 31772	47pF 5% 50V	3865	4822 051 10392	3k9 2 % 0,25W
6075	4822	13080446	LL4148	2826	4822 122 31772	47pF 5% 50V	3866	4822 051 10272	2k7 2 % 0,25W
6127	5322	13034953	BB405B	1830	4822 122 33496	100nF 10% 63V	3867	4822 116 52206	120Ω 5 % 0,5W
6134	5322	13031684	BB809	1832	4822 122 33496	100nF 10% 63V	3868	4822 051 10101	100Ω 2 % 0,25W
6140	4822	13080446	LL4148	1833	4822 122 33496	100nF 10% 63V	3869	4822 051 10821	820Ω 2 % 0,25W
6190	4822	13080446	LL4148	1834	4822 124 40435	10μF 20% 50V	3870	4822 050 24701	470Ω 1 % 0,6W
6191	4822	13080954	LLZ-C5V6	1836	4822 122 31965	220pF 5% 63V	3871	4822 050 22201	220Ω 1 % 0,6W
6225	4822	130 81015	LLZ-C10	1850	4822 122 33496	100nF 10% 63V	3872	4822 051 10331	330Ω 2 % 0,25W
				1860	4822 122 31825	27pF 10% 50V	3873	4822 051 10271	270Ω 2 % 0,25W
7000	4822	209 72812	TDA2549/C4	1861	4822 122 33496	100nF 10% 63V	3874	4822 051 10181	180Ω 2 % 0,25W
7035	4822	13044121	BC338	1862	4822 122 31774	56pF 5% 50V	3890 ⁹	4822 051 10102	1k 2 % 0,25W
7073	6322	13042012	BC858	1863	4822 122 33496	100nF 10% 63V	3890 ¹³	4822 051 10103	10k 2 % 0,25W
7078	4822	13042513	BC858C	2870	4822 124 41643	100μF 20% 16V	3890 ¹⁴	4822 051 10153	15k 2 % 0,25W
7100	4822	209 63784	TDA3857/V3	2871	4822 124 41506	47μF 20% 16V	3890 ¹⁰	4822 051 10272	2k7 2 % 0,25W
7106	4822	130 61207	BC848	2872	4822 124 40272	33μF 20% 16V	3890 ¹¹	4822 051 10562	5k6 2 % 0,25W
7108	6322	13042012	BC858				3890 ¹²	4822 051 10822	8k2 2 % 0,25W
7120	4022	209 30909	TDA8732/C1	3802	4822 051 10273	27k 2 % 0,25W	Jumper		
7133	4822	13061207	BC848	3803	4822 051 10103	10k 2 % 0,25W	4801..	4822 051 10008	jumper
7150	4022	209 30014	SAA7280/M2	3804	4822 051 10122	1k2 2 % 0,25W	4862		
7160	4822	130 61207	BC848	3805	4822 051 10122	1k2 2 % 0,25W			
7161	4822	13061207	BC848	3806	4822 051 10221	220Ω 2 % 0,25W	5800	4822 15753302	
7168	4822	209 73236	TDA1543/N2	3809	4822 116 52176	10Ω 5 % 0,5W	5801	4822 15220677	
7170	4822	209 83163	LM833N	3810	4822 116 52207	1 k 2 5% 0,5W	5834	4822 157 53001	27μH 10%
7180	4822	209 83163	LM833N	3811	4822 051 10122	1k2 2 % 0,25W	5870	4822 157 51157	3,3μH
7190	6322	13041983	BC858B	3812	4822 051 10122	1k2 2 % 0,25W			
7191	4822	13044121	BC338	3813	4822 051 10122	1k2 2 % 0,25W	6800	4822 130 8292 1	LLZ-F3V9
7200	4822	209 30147	TDA8415	3814	4822 051 10122	1k2 2 % 0,25W	6840	4822 130 80446	LL4148
7213	4822	209 63734	TDA8425/V7	3815	4822 116 52207	1k 2 5% 0,5W	6850	4822 130 80446	LL4148
7217▲	5322	13041982	BC848B	3816	4822 116 52207	1k 2 5% 0,5W	6851	4822 130 80446	LL4148
				3817	4822 051 10122	1k2 2 % 0,25W	6852	4822 130 80446	LL4148
				3818	4822 051 10122	1k2 2 % 0,25W	6860	4822 130 80446	LL4148
				3819	4822 051 10122	1k2 2 % 0,25W	6870	4822 130 80905	LLZ-F5V1
				3820	4822 051 10471	470Ω 2 % 0,25W	6871	4822 130 81227	LLZ-F5V6
				3821	4822 051 10102	1k 2 % 0,25W			
				3822	4822 051 10103	10k 2 % 0,25W	7800	4822 209 31214	SAA5246P/E
				3823	4822 051 10105	1M 5 % 0,25W	7800 ¹²	4822 209 31215	SAA5246P/H
				3824	4822 051 20222	2k2 5 % 0,1W	7810	4822 209 61805	HY6264P-15
				3825	4822 051 20222	2k2 5 % 0,1W	7810 ¹¹	4822 209 72681	MSM5165AL-12RS
				3826	4822 116 52175	100Ω 5 % 0,5W	7820 ¹²	4822 209 30281	PCF84C81A/097

7) BG

8) I

PIP module

Control module DAS

3354	4822051	10271	270Ω 2 % 0,25W
3390	4822051	10151	150Ω 2 % 0,25W
3391	4822051	10181	180Ω 2 % 0,25W
3394	4822051	10151	150Ω 2 % 0,25W
3395	4822051	10181	180Ω 2 % 0,25W
3398	4822051	10151	150Ω 2 % 0,25W
3399	4822051	10181	180Ω 2 % 0,25W
3404	4822	051 10431	430Ω 2 % 0,25W
3405	4822	051 10361	360Ω 2 % 0,25W
3410	4822051	10391	390Ω 2 % 0,25W
3411	4822051	10471	470R 2 % 0,25W
3412	4822051	10751	750Ω 2 % 0,25W
3414	4822051	10471	470Ω 2 % 0,25W
3416	4822051	10182	1k8 2 % 0,25W
3434	4822051	10473	47k 2 % 0,25W
3436	4822051	10473	47k 2 % 0,25W
3437	4822051	10101	100Ω 2 % 0,25W
3438	4822051	10513	51 k 2 % 0,25W
3440	4822	116 52222	390Ω 5 % 0,5W
3441	4822	051 10519	51 Ω 2 % 0,25W
3442	4822051	10919	91 Ω 2 % 0,25W
3444	4822	11652175	100Ω 5 % 0,5W
3446	4822	11652175	100Ω 5 % 0,5W
3448	4822	051 10392	3k9 2 % 0,25W
3450	4822	051 10471	470Ω 2 % 0,25W
3452	4822	051 10471	470Ω 2 % 0,25W
3454	4822	051 10471	470Ω 2 % 0,25W
3460	4822	11652231	820R 5 % 0,5W
3461	4822	11652259	2k4 5 % 0,5W
3462	4822051	10333	33k 2 % 0,25W
3463	4822	116 52299	7k5 5 % 0,5W
3464	4822	051 10472	4k7 2 % 0,25W
3470	4822	052 10108	1Ω 5 % 0,33W
3618	4822052	10568	5Ω6 5 % 0,33W
3621	4822051	10105	1 M 5 % 0,25W
3997	4822051	10339	33Ω 2 % 0,25W
3997	4822	051 10279	27Ω 2 % 0,25W

lumper			
1001..	4822	051 10008	jumper
1415			

5118	4822	157 60435	10,3μH 6 %
5155	4822	157 60433	7,2μH 6 %
5157	4822	157 60434	9,4μH 6 %
5170	4822	157 60432	10,3μH
5175	4822	157 60432	10,3μH
5190	4822	157 60432	10,3μH
5400	4822	15750943	12μH 10%
5402	4822	15750943	12μH 10%
5403	4822	15752333	100μH 10%
5406	4822	157 50943	12μH 10%
5408	4822	15750943	12μH 10%
5410	4822	15750943	12μH 10%

6300	4822	130 80906	LLZ-C7V5
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7103	5322	13041982	BC848B
7105	5322	13041982	BC848B
7125	4822	209 63927	TDA4554/V1
7126	4822	209 30389	TDA4510/V8
7200	5322	13041982	BC848B
7210	5322	13041982	BC848B
7233	5322	13041983	BC858B
7234	5322	13041982	BC848B
7335	5322	13041982	BC848B
7337	5322	13041982	BC848B
7338	5322	13041982	BC848B
7350	4822	13042616	BC818-40

7380	4822209	60479	TEA5114A
7400	5322	13041983	BC858B
7402	5322	13041983	BC858B
7404	5322	13041983	BC858B
7406	4822	209 62473	SDA9087
7408	4822	209 63291	SDA9088/2Q
7410	4822	209 63644	SDA9086-3
7755	4822	209 72363	TDA2579A/N8

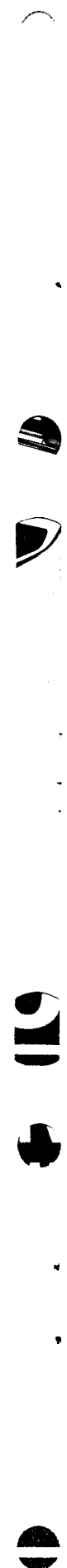
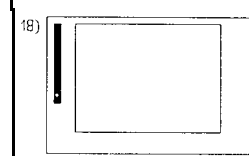
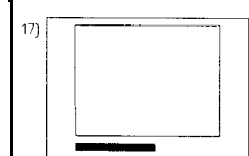
17	4822	4822	212	212	30036	30029	control	control	module	module
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Connectors			
A	4822	265 30384	mains K11
A	4822	265 40596	mains K25
	4822	264 40207	3p male
	4822	265 30951	4p male

Various			
A	4822	276 12597	Mains switch
	4822	267 31014	Headphone socket
	4822	276 50354	Swith assembly
	4822	212 23667	IR receiver
			GP1U52YP
	4822	209 72895	LEDTLUV5320
	4822	256 91766	LED holder

- -			
2233	4822	12143526	47nF 5% 100V
2234	4822	12143526	47nF 5% 100V
2713	5322	12421189	100μF 20% 40V

□			
3246	4822	11652219	330Ω 5 % 0,5W
3247	4822	11652175	100Ω 5 % 0,5W
3248	4822	11652219	330Ω 5 % 0,5W
3249	4822	11652175	100Ω 5 % 0,5W
3729	4822	11652232	910Ω 5 % 0,5W
3730	4822	11652215	220Ω 5 % 0,5W
3775	4822	11652175	1000 5 % 0,5W
3776"	4822	116 52264	5K6 5 % 0,5W
3776 ¹⁸	4822	11652289	27K 5 % 0,5W
3777 ¹⁷	4822	11652289	27K 5 % 0,5W
3777 ¹⁸	4822	11652264	5K6 5 % 0,5W
3778 ¹⁷	4822	11652233	56K 5 % 0,5W
3778 ¹⁸	4822	116 52291	10K 5 % 0,5W
3779"	4822	11652291	10K 5 % 0,5W
3779 ¹⁸	4822	11652233	56K 5 % 0,5W



Service
Service
Service

GR2.1

AA

92.01

Service Information

(GB)

1. Modified circuits

During production several modifications have been made to the SOPS, line and raster circuits. The modified circuits are illustrated in Fig.1. The service code numbers of the modified components are given a table:

2. Modified adjustment for picture tube control

The electrical adjustment 1.13, 1.14 and 1.15 on page 7.1 of the service manual must be modified as follows:

1.13 White balance

Connect a pattern generator and select a white screen. Switch in the service menu (see chapter 9) and select "WHITE BALANCE". Adjust the value of "GREEN" to 51 and the value of "BLUE" to 46. In most cases no further adjustment is necessary.

1.14 Peak white limit

Switch in the service menu (see chapter 9) and select "WHITE BALANCE". Adjust "WHITE LIMIT" to the values:
43 for black-line sets
53 for non black-line sets
53 for 21" sets.

1.15 Picture tube cut-off points

Connect a pattern generator and select a black screen. Switch in the service menu and select "CUT OFF". Adjust the value for "RED" and for "GREEN" to 16, and adjust "BLUE" to 15. In most cases no further adjustment is necessary.

3. Service default mode

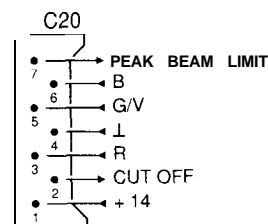
In order to bring a set into the service default mode the antenna and generator signals should first be removed. Once the set has been brought into the service default mode (see page 9.1 of the service manual) the antenna and generator signals may be input.

4. Coordination position+ numbers on main panel

The coordinates on pages 6.21 and 6.22 are incorrect. The correct coordinates are given in Fig.2.

5. Picture tube panel

The designations of connector C20 (as given on the print lay-outs of the picture tube panel on page 6.24 of the service manual) are incorrect. The correct designations are given in the fig. 3.



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Fig. 3

(NL)

1. Gewijzigde circuits

Gedurende productie hebben zich enkele wijzigingen voorgedaan in het SOPS-, lijn en raster circuit. In Fig. 1 zijn de gewijzigde schema's weergegeven. De service codenummers van de gewijzigde componenten zijn in een tabel vermeld:

2. Gewijzigde afregelingen voor aansturing van de beeldbuis

De elektrische afregelingen 1.13, 1.14 en 1.15 op pagina 7.1 van de service manual moeten als volgt gewijzigd worden:

1.13 Witbalans

Sluit een patroongenerator aan en kies een wit beeld. Schakel het servicemenu in (zie hoofdstuk 9) en kies "WHITE BALANCE". Regel de waarde van groen ("GREEN") af op 51, en van blauw ("BLUE") op 46 af. In de meeste gevallen is er nu geen verdere afregeling noodzakelijk.

1.14 Piekwit begrenzing

Schakel het servicemenu in (zie hoofdstuk 9) en kies "WHITE BALANCE". Regel "WHITE LIMITE" af op de waarde:
43 voor black-line apparaten
53 voor niet-black-line apparaten
53 voor 21" apparaten

1.15 Afknijppunten van de beeldbuis

Sluit een patroongenerator aan en kies een zwart beeld. Schakel het servicemenu in en kies "CUT OFF". Regel de waarde van rood ("RED") en van groen ("GREEN") op 16 en van blauw ("BLUE") op 15. In de meeste gevallen is er nu geen verdere afregeling noodzakelijk.

3. Service default mode

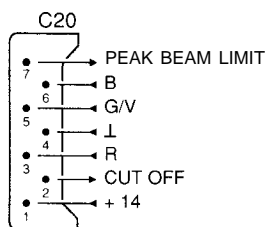
Om een apparaat in de service default mode te brengen dient men het antenne- of generatorsignaal eerst te verwijderen. Nadat het apparaat in de service default mode is gebracht (zie pagina 9.1 van de service manual) mag het antenne- of generatorsignaal toegevoerd worden.

4. Coördinaten positienummers op het hoofdpaneel.

Op pagina 6.21 en 6.22 zijn de coördinaten foutief weergegeven. Fig. 2 geeft de juiste coördinaten weer.

5. Beeldbuispaneel.

De benamingen van de connector C20 (vermeld op de printlayouts van de beeldbuispanelen op pagina 6.24 van de service manual) zijn foutief weergegeven. In fig. 3 vindt u de juiste benamingen.



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Fig. 3

(D)

1. Geänderte Versorgungskreise.

Während der Produktion haben sich einige Änderungen im SOPS-, Linien- und Rasterkreis ergeben. Abb. 1 zeigt die geänderten Schemen. Die Service-Kodenummern der geänderten Komponente sind in einer Tabelle aufgeführt.

2. Geänderte Abstimmung für das Ansteuern der Bildröhre.

Die elektrischen Abstimmungen 1.13, 1.14 und 1.15 auf Seite 7.1 des Service-Manuals müssen folgendermaßen geändert werden.

1.13 Weißausgleich.

Schließen Sie einen Patronengenerator an und wählen Sie ein weißes Bild. Schalten Sie das Service-Menü ein (siehe Kapitel 9) und wählen Sie "WHITE BALANCE". Stimmen Sie den Wert von grün ("GREEN") auf 51 ab und den von blau ("BLUE") auf 46 ab. In den meisten Fällen ist dann keine weitere Abstimmung erforderlich.

1.14 Begrenzung Spitzenweiß.

Das Service-Menü einschalten (siehe Kapitel 9) und wählen Sie "WHITE BALANCE". "WHITE BALANCE" abstimmen auf die Werte:
43 für Black-line-Geräte
53 für nicht-Black-line-Geräte
53 für 21" Geräte.

1.15 Unterbrechungspunkte der Bildröhre.

Schließen Sie einen Patronengenerator an und wählen Sie ein schwarzes Bild. Schalten Sie das Service-Menü ein und wählen Sie "CUT OFF". Stimmen Sie den Wert von rot ("RED") und von grün ("GREEN") auf 16 ab, den von blau ("BLUE") auf 15. In den meisten Fällen ist jetzt keine weitere Abstimmung erforderlich.

3. Service Standardeinstellung.

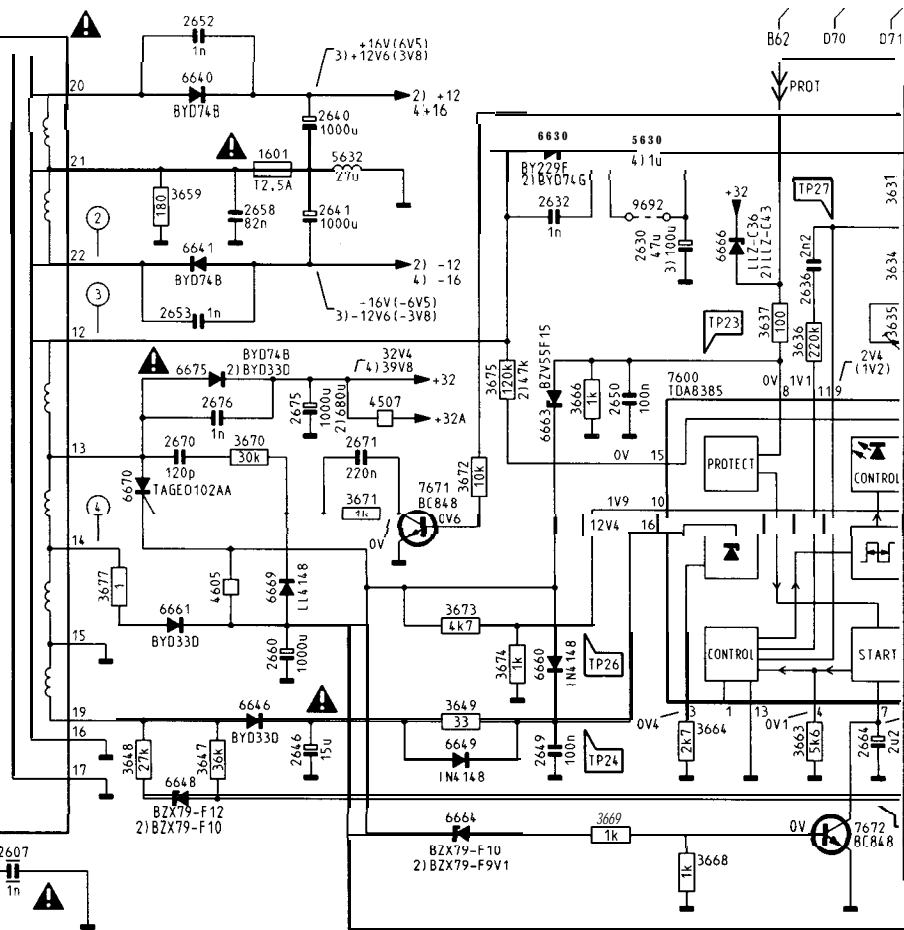
Um ein Gerät in die Service-Standardeinstellung zu bringen, muß man zuerst das Antennen- oder Generatorsignal entfernen. Nachdem das Gerät sich in der Service-Standardeinstellung befindet (siehe Seite 9.1. Service-Manual) darf das Antennen oder Generatorsignal zugeführt werden.

4. Koordinate Positionsnummern auf der Haupt-Platine.

Auf den Seiten 6.21 und 6.22 sind die Koordinaten falsch wiedergegeben. Abb. 2 zeigt die richtigen Koordinaten.

5. Bildröhren-Platine.

Die Bezeichnungen für Anschluß C 20 (in den Print-Layouts der Bildröhren-Platinen auf Seite 5.24 des Service-Manuals) sind falsch. In Abb.3 sehen Sie die korrekten Bezeichnungen.



SOPS circuit

3663	4822 051 10562	5k6 2% 0,25W
3674	4822 051 10102	1k 2% 0,25W
6611	5322 130 80442	BZV85-C16
6670	4822 130 20272	TAGE0102AA
7614▲	4822 209 30992	CNR50-selected

Line circuit

2538	4822 12143079	4n7 5% 250V
2539	4822 12480057	330µF 20% 16V
2546	4822 12143076	11nF 5% 1600V
2546	4822 12143065	7,5nF 5% 2kV
2546	4822 12142523	8,2nF 5% 2kV
3483▲	4822051 10479	4702% 0,25W
3545A	4822 11170178	120Ω 5% 5w
3545A	4822 11683618	470Ω 5% 5w
6561	4822 13030864	BZX79-B68
6570	4822 13042489	BYD33G
6580	4822 130 80791	BYV28-200
6580	4822 13082512	BYV29F-400
6585	4822 13042489	BYD33G

Frame circuit

3503▲	4822 052 10128	1Ω 5% 0,33W
3503▲	4822 052 10158	1Ω 5% 0,33W
3518	4822 051 10101	100Ω 2% 0,25W
3520	4822 116 52211	150Ω 5% 0,5W
3535	4822 116 52253	2k 5% 0,5W
3535	4822 11652231	82005% 0,5W

Frame circuit

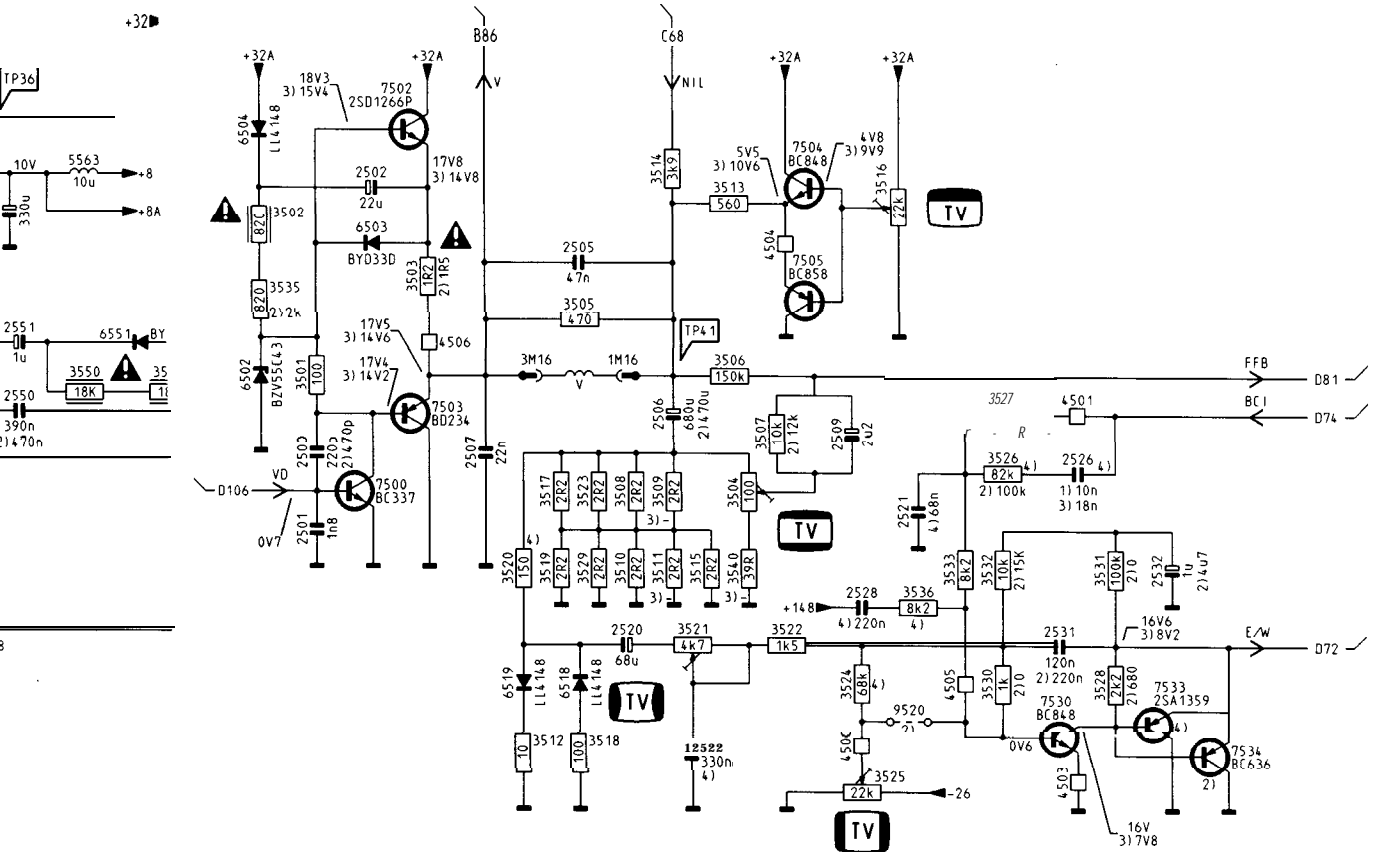


Fig. 1

F

1. Circuits modifiés

Nous avons, au cours de la production, procédé à quelques modifications au niveau du circuit SOPS, lignes et définition.

Les circuits modifiés sont indiqués sur la figure 1.

Les numeros de code d'entretien des composants modifiés sont donnés par un tableau:

2. Réglages modifiés pour la commande du tube-&ran

Les réglages électriques 1.13, 1.14 et 1.15 décrits dans la page 7.1 du manuel d'entretien doivent être modifiés comme suit:

1.13. Equilibre du blanc

Raccorder un generateur de trames et choisir un écran blanc. Faire appel au menu d'entretien (voir chapitre 9) et sélectionner "WHITE BALANCE". Régler la valeur du vert ("GREEN") sur 51 et celle du bleu ("BLUE") sur 46. Dans la plupart des cas, il n'est plus utile de procéder à d'autre réglage.

1.14 Limitation maximale du blanc

Faire appel au menu entretien (voir chapitre 9) et sélectionner "WHITE BALANCE"
Régler "WHITE LIMITE" sur la valeur:
43 pour les appareils 'black-line'
53 pour les appareils non 'black-line'
53 pour les appareils 21"

1.15 Points de coupure du tube-écran

Raccorder un generateur de trames et choisir un écran noir.
Faire appel au menu entretien et sélectionner "CUT-OFF". Régler la valeur du rouge ("RED") et du vert ("GREEN") sur 16 et celle du bleu ("BLUE") sur 15. Dans la plupart des cas, il n'est plus utile de faire d'autre réglage.

3. Mode implicite d'entretien

Pour mettre un appareil en mode implicite d'entretien, le signal antenne ou generateur doit être éliminé. Après avoir mis l'appareil en mode implicite d'entretien (voir page 9.1 du manuel d'entretien), on peut ajouter le signal antenne ou generateur.

4. Coordonnées des numéros de position sur la platine principale

Les coordonnees mentionnees en pages 6.21 et 6.22 ne sont pas correctes.

Les bonnes coordonnees sont données par la figure 2.

5. Platine TRC

Les denominations du connecteur C20 (indiquées sur les descriptions de circuit des platines TRC dans la page 6.24 du manuel d'entretien) ne sont pas correctes.

Vous trouverez les bonnes denominations sur la fig. 3

I

1. Circuito modificato

Durante la produzione sono state apportate alcune modifiche nel circuito SOPS, di linea e di quadro.

Nella fig. 1 sono riportati gli schemi modificati.

I numeri di codice per il servizio relativi ai componenti modificati sono riportati in una tabella;

2. Regolazioni modificate per il pilotaggio dello schermo

Le regolazioni elettriche 1.13, 1.14 e 1.15 di pagina 7.1 del service manual devono essere modificate nel modo seguente:

1.13 Bilanciamento del bianco

Collegare un generatore di monoscopia e scegliere una immagine bianca. Inserire il service menu (vedasi capitolo 9) e scegliere "WHITE BALANCE".

Régler le valore del verde ("GREEN") su 51, e del blu ("BLUE") su 46. Nella maggior parte dei casi non sono ora necessarie ulteriori correzioni.

1.14 Limitazione di picco del bianco

Inserire il service menu (vedasi capitolo 9) e scegliere "WHITE BALANCE".
Régler "WHITE BALANCE" sul valore:
43 per apparecchi black-line
53 per apparecchi non black-line
53 per apparecchi a 21".

1.15 Punti limite dello schermo

Collegare un generatore di monoscopia e scegliere una immagine nera. Inserire il service menu e scegliere "CUT OFF". Régler le valore del rosso ("RED") e del verde ("GREEN") su 16 e del blu ("BLUE") su 15. Nella maggior parte dei casi non sono ora necessarie ulteriori correzioni.

3. Predisposizione per la manutenzione dell'apparecchio

Per predisporre un apparecchio per la manutenzione, occorre per prima cosa sopprimere il segnale dell'antenna o del generatore.

Dopo aver predisposto l'apparecchio per la manutenzione, (vedasi pagina 9.1 del service manual), si può riapplicare il segnale dell'antenna o del generatore.

4. Valori delle coordinate sulla scheda principale.

A pagina 6.21 e 6.22, le coordinate sono riportate in modo errato. La Fig. 2 riporta le coordinate corrette.

5. Scheda dello schermo

Le denominazioni del connettore C20 (indicato nel layout del circuito stampato della scheda dello schermo a pagina 6.24 del service manual) sono riportate in modo errato. Nella fig.3 sono riportate le denominazioni corrette.

M10	F1	2350	G4	2714	G2	3360	F4	3661	E2	4312	D4	6590	C3	9630	A3	9777	D4
M11	G1	2351	F5	2715	G2	3361	G4	3662	E2	4313	D4	6591	B3	9631	C4	9778	B5
M12	G4	2352	F5	2716	G2	3362	E4	3663	E3	4314	G4	6592	B3	9632	B3	9779	D4
M13	B2	2353	E5	2717	D4	3363	D3	3664	E3	4315	D3	6610	E1	9634	F3	9780	D4
M14	E4	2354	E4	2718	E2	3364	C3	3665	E3	4316	G4	6611	E2	9635	C3	9781	D5
M15	B1	2355	E4	2719	F2	3365	D4	3666	D3	4317	G4	6612	E2	9637	B3	9783	D5
M16	A3	2356	F4	2720	F2	3366	D4	3667	E2	4318	F4	6613	E1	9637	C4	9784	C5
M17	D3	2357	F4	2721	F2	3367	D4	3668	E3	4319	E4	6621	E1	9638	C3	9785	B5
M18C	3	2358	F4	2722	F2	3370	F4	3669	D3	4320	G5	6622	E1	9639	F3	9786	A4
M19	E5	2359	F5	2800	A5	3371	E4	3670	E2	4321	G5	6630	E2	9640	F3	9787	C4
M20G	4	2360	F4	2805	A4	3372	F5	3671	E2	4322	F5	6640	D3	9641	E4	9788	C4
M21A	4	2361	F4	2810	A3	3373	F5	3672	E3	4323	F4	6641	D2	9642	D4	9789	B4
M22	A3	2362	F4	2815	A4	3374	F4	3673	D3	4324	F4	6648	D3	9644	D4	9790	B4
M23	E5	2363	F4	3001	A5	3375	F5	3674	D3	4328	E4	6649	E2	9645	E3	9791	B3
M24	D5	2364	E5	3002	A5	3376	F5	3675	E2	4329	E5	6649	E2	9646	E5	9792	B3
M26G	4	2365	E4	3003	B5	3380	F4	3676	E2	4450	B3	6660	E3	9647	B4	9793	B3
M27	A4	2366	E4	3004	A5	3381	F4	3677	E2	4451	B3	6661	E2	9648	B4	9794	E2
M28	D1	2367	C4	3005	A5	3394	D3	3701	F3	4452	C3	6662	E2	9649	E3	9797	B3
M29	B3	2368	G4	3006	A5	3395	D4	3702	B3	4500	C2	6663	D3	9650	F2	9798	G3
M30	F5	2369	G4	3007	A5	3450	A2	3703	G2	4501	C2	6664	D3	9651	G3	9799	F3
M40G	3	2370	E5	3008	A5	3451	G1	3704	G2	4502	G1	6665	E2	9652	F2	9801	F3
M50	B4	2371	E4	3009	A5	3452	B4	3705	G2	4503	C1	6666	C3	9653	E4	9803	G2
M51D	4	2372	E4	3010	A5	3455	C3	3706	G2	4504	A3	6669	E2	9654	D4	9806	B4
0032	C5	2373	E4	3218	C5	3456	C4	3707	G3	4505	C1	6670	E3	9655	B4	9843	D4
0033	G4	2374	E4	3219	C5	3457	C3	3708	G3	4506	A2	6675	D2	9656	B5	9854	A4
0034	G4	2375	F5	3220	C5	3458	C3	3710	G2	4507	C2	6705	F2	9657	D4	9869	C5
0037	F1	2376	F5	3221	C5	3459	B4	3711	G3	4602	E3	6707	G4	9658	E3	9876	E5
0038	B5	2380	F4	3222	C5	3460	C3	3712	G3	4603	E2	6708	E2	9659	D4	9877	E5
0039	G5	2381	F4	3224	D5	3461	B4	3713	G3	4604	E2	6709	F2	9660	F2		
0041	G3	2384	F4	3225	D5	3462	C4	3714	G3	4605	E2	7000	A5	9662	D4		
0047	A3	2385	F4	3226	D5	3483	C3	3716	F3	4700	G2	7001	A5	9663	B4		
0049	A4	2388	F4	3227	D5	3464	C3	3717	G3	4700	G3	7002	A5	9664	F3		
1000	A5	2451	C4	3228	D5	3465	C3	3718	F3	4706	F3	7003	B5	9665	F2		
1003	G4	2456	D4	3229	D5	3466	G1	3719	F3	4707	G3	7240	B5	9666	F3		
1240	D5	2457	C4	3230	C5	3467	C3	3720	F3	4708	F2	7243	B5	9668	C2		
1242	D5	2458	C4	3231	C5	3468	C4	3721	F3	4709	F2	7244	C5	9669	C3		
1300	F4	2459	C3	3232	C5	3469	C4	3722	F3	4710	F3	7245	B5	9670	A3		
1534	C2	2460	C3	3233	B5	3470	C4	3723	F3	4711	F3	7246	B5	9671	B3		
1559	A2	2461	C4	3234	B5	3471	C4	3724	F3	4712	F3	7247	B5	9672	F4		
1580	B3	2464	C4	3235	B5	3473	C4	3725	F3	4713	F3	7248	D5	9673	D5		
1600	G1	2465	B3	3236	B5	3474	B3	3726	F3	4714	F3	7249	D5	9674	C4		
1702	F2	2466	C4	3237	C5	3483	B3	3727	G3	4715	F3	7301	E4	9675	B4		
2001	A5	2467	C4	3238	B5	3485	C3	3728	G3	4716	F3	7302	E4	9676	E5		
2002	A5	2468	C4	3239	C5	3501	A1	3729	G4	4717	G4	7303	G4	9677	D5		
2003	A5	2469	B4	3240	C5	3502	A1	3730	G4	4718	F3	7305	F5	9678	B4		
2005	B5	2470	B4	3241	C5	3503	A1	3731	F3	4720	F3	7306	F5	9679	A3		
2008	A5	2471	C4	3242	D5	3504	A1	3732	C3	4721	G2	7307	F5	9681	B3		
2230	B5	2473	C4	3243	D5	3505	A3	3733	E3	4723	G3	7308	G5	9684	B3		
2231	D5	2475	B4	3244	D5	3506	A3	3734	E2	4850	A5	7309	F4	9685	B3		
2232	D5	2500	A2	3245	D5	3507	A2	3735	G3	4851	A4	7310	G4	9686	B4		
2233	G5	2502A	I	3246	G5	3508	A2	3736	F3	4852	A4	7311	A5	9687	B4		
2234	G5	2505	A2	3247	G5	3509	A2	3737	F2	4853	A3	7312	A3	9688	B5		
2235	C5	2506	A2	3248	G5	3510	A2	3741	F2	4854	A3	7370	E4	9690	C5		
2236	B5	2507	A3	3249	G5	3511	A2	3742	F2	4855	A3	7371	D3	9691	D3		
2237	C5	2509	A2	3250	A3	3512	C2	3743	F2	4856	A4	7372	D3	9692	D2		
2238	C5	2520	C1	3251	A3	3513	A3	3747	F2	4857	A4	7373	F5	9693	C2		
2239	C5	2521	C1	3253	A3	3514	A3	3748	G2	4858	A4	7374	D4	9694	A1		
2240	C5	2522	C1	3254	A3	3515	A2	3749	G2	4859	A4	7455	C4	9695	C2		
2241	C5	2524	C2	3255	A4	3516	A3	3750	B3	4860	A4	7470	C4	9696	B2		
2242	B5	2526	C2	3256	A4	3517	A2	3751	G2	4862	B4	7500	A2	9697	D3		
2243	C5	2528	C1	3257	A3	3518	C2	3752	G2	4863	B4	7502	A1	9699	D3		
2245	C5	2531	C1	3258	A3	3519	A2	3753	G2	4865	B4	7503	A2	9700	B4		
2246	D5	2532	C1	3259	A3	3520	A1	3754	E3	4866	B4	7504	A3	9701	G2		
2248	D5	2533	C2	3260	A3	3521	C2	3755	G2	4867	B4	7505	A3	9702	G3		
2249	D5	2538	B3	3261	A3	3522	C1	3756	G2	5001	B5	7530	C1	9703	G2		
2250	A3	2539	A3	3262	A3	3523	A2	3757	F2	5240	D5	7533	B1	9704	B4		
2251	A3	2545	A1	3263	A4	3524	C1	3758	F2	5242	D4	7534	C1	9705	F3		
2252	A3	2546	A1	3264	A4	3525	C2	3759	F3	5301	E5	7540	C3	9707	G3		
2254	A3	2547	A1	3265	A4	3526	C1	3768	F2	5302	G4	7545	B1	9708	G2		
2255	A3	2549	B1	3266	A4	3527	C1	3770	F2	5303	G4	7546	A1	9709	G2		
2256	A3	2550	C1	3300	E5	3528	C1	3771	F2	5304	F5	7591	C3	9710	B4		
2257	A3	2551	C2	3301	E4	3529	A2	3772	F2	5306	F4	7600	C3	9711	D4		
2262	A4	2559	C2	3302	E4	3530	C1	3775	G3	5530	C1	7614	E2	9712	E4		
2263	A4	2560	B2	3303	E4	3531	C1	3776	G3	5534	C1	7625	D1	9713	E3		
2264	A4	2563	A2	3304	E4	3532	C1	3777	G3	5541	C2	7661	E2	9714	F3		
2265	A4	2570	B2	3305	E4	3533	C1	3778	G2	5545	A1	7663	E2	9715	B3		
2266	B4	2574	B3	3306	F4	3534	C1	3779	G2	5549	B1	7671	E3	9717	F3		
2300	E4	2580	B3	3307	G4	3535	A1	3780	G2	5554	C2	7672	E3	9718	B4		
2301	E4	2585	B2	3308	F5	3536	C1	3781	A4	5582	B3	7701	G2	9719	B5		
2302	G4	2588	A1	3309	F5	3538	C2	3850	A4	5588	E1	7702	G3	9720	A3		
2303	E5	2590	C3	3310	E5	3539	B1	3851	A4	5605	F1	7703	F3	9721	D3		
2304	E5	2600	F1	3311F	5	3540	A1	3852	A4	5606	F1	7704	F3	9723	C2		
2305	E4	2603	D1	3312	F5	3542	B2	3953	A3	5619	E1	7705	F3	9724	C3		
2306	F5	2605	D1	3313	E4	3543	B3	3854	A3	5625	D2	7706	F2	9725	C3		
2307	F5	2607	D1	3314	F5	3545	C2	3855	A4	5630	D2	7707	F2	9727	B1		
2308	F5	2611	E1	3315	F5	3546	C3	3856	A4	5631	C2	7708	G2	9728	B1		
2309	F5	2617	E1	3316	F5	3550	C1	3857	A4	5632	D3	7709	F3	9729	C1		
2310	E5	2620	E1	3317	F4	3551	C2	3858	A3	5661	E2	7710	G2	9732	F3		
2311E	5	2625	D1	3318	E4	3552	C2	3859	A3	5701	F2	7711	G3	9733	C3		
2312	E5	2626	E1	3319	E4	3553	C2	3860	A4	5703	E2	7712	F3	9734	C3		
2313	F4	2629	E1	3320	E5	3560	C2	3861	A5	5801	A4	7805	A3	9735	B2		
2314	E4	2630	D2	3321	E5	3570	B2	3866	A5	6245</							

Service
Service
Service

GR2.1 / GR2.2

AA / AB

92.02

Service Information

Ⓒ Vg2, white drive, white limiter and cut-off settings

Table I shows the Vg2 settings of the various types of picture tubes used in chassis CP1 10, GR2.1 and GR2.2.

Table II provides an overview of the settings for: white limiter, white balance (gain and cut-off points for chassis GR2.1 and GR2.2).

Ⓓ Vg2, Weißabgleich, Weißspitzenbegrenzer- und Sperrpunktgleich

In der Tabelle I sind die Vg2-Einstellungen von verschiedenen Bildröhrentypen angegeben, die in den Chassis VP1 10, GR2.1 und GR2.2 benutzt werden.

In der Tabelle II ist eine Übersicht der folgenden Einstellungen enthalten:

Weißspitzenbegrenzung (white limiter), Weißabgleich (gain) und Sperrpunktgleich für Chassis GR2.1 und GR2.2.

Ⓖ Vg2, Witbalans, Piekwit begrenzer en afknijppuntinstelling

In tabel I staan de Vg2 instellingen vermeld van de diverse typen beeldbuizen gebruikt in chassis CP110, GR2.1 en GR2.2.

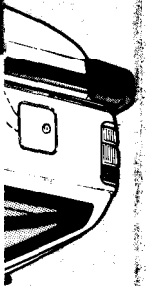
In tabel II staat een overzicht van de afregelingen: piekwit begrenzing (white limiter), witbalans (gain en afknijppunten voor chassis GR2.1 en GR2.2).

Ⓕ Réglages Vg2, commande du blanc, limiteur de crête de blanc et valeurs de coupure

Le tableau I mentionne les réglages Vg2 pour les différents types de tubes-image utilisés dans les chassis CP110, GR2.1 et GR2.2.

Le tableau II donne un aperçu des réglages suivants:

limiteur de crête de blanc (white limiter), balance du blanc (gain et valeurs de coupure pour les chassis GR2.1 et GR2.2).



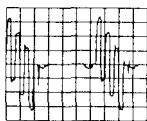
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TABLE I / TABEL I / TABELLE I / TABLEAU I

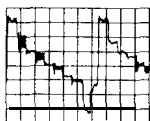
	CP110	GR2.1	GR2.2
21" Mini Neck A51EAM31X45		120v ± 5v	120v ± 5v
21" Narrow Neck A51 EAL55X73			120v ± 5v
25" 45AX A59EAK51X03		120v ± 5v	
28" 45AX A66EAK51X03	130v ± 5v	130v ± 5v	
25" Black Matrix A59EAK71X03		110V ± 5 v	120v ± 5v
28" Black Matrix A66EAK71X03	130v ± 5v	120v ± 5v	130v ± 5v
25" Black Line A59EAK22X13		145v ± 5v	
28" Black Line A66EAK22X13		145v ± 5v	
25" Black Line S A59EAK222X13			145V ± 5V
28" Black Line S A66EAK222X13			145v ± 5v
25" Black Line Matrix A59EAK220X13		135v ± 5v	
28" Black Line Matrix A66EAK220X13		135v ± 5v	

TABLE II / TABEL II / TABELLE II / TABLEAU II

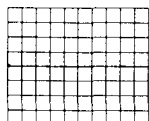
White Drive Nit Balans Weißabgleich Zommande du blanc	Red Rood Rot Rouge	60
	Green Groen Grün Vert	52
	Blue Blauw Blau Bleu	49
Cut-off Afknijppunt instelling Sperrpunktgleich Valeurs de coupure	Red Rood Rot Rouge	56
	Green Groen Grün Vert	16
	Blue Blauw Blau Bleu	15
White limiter Piekwit begrenzing Weißspitzenbegrenzer Limitateur de crête de blanc	1 10° Black Line	43
	45 AX 28"	53
	45 AX 25"	53
	90°	53



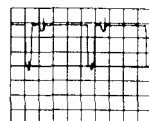
TP 1
0.2 V/div AC
20 μS/div



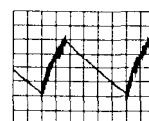
TP 8
50 mV/div AC
10 μS/div



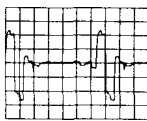
TP 146
0.2 V/div DC
0.5 mS/div



TP 21
0.5 V/div DC
5 μS/div



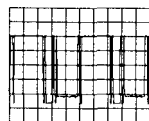
TP 26 φ
0.1 V/div AC
5 mS/div



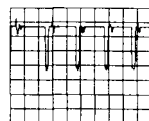
TP 2
0.2 V/div AC
20 μS/div



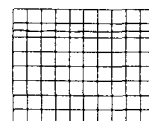
TP 9
0.5 V/div AC
10 μS/div



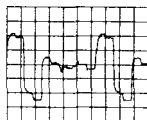
TP 15
1 V/div AC
0.2 mS/div



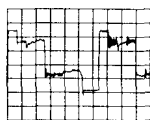
TP 21 φ
0.5 V/div DC
10 μS/div



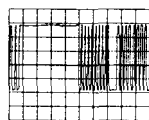
TP 27
1 V/div DC



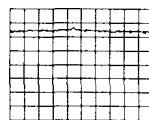
TP 3
0.2 V/div AC
10 μS/div



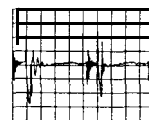
TP 10
0.5 V/div AC
10 μS/div



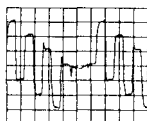
TP 16
1 V/div DC
0.1 mS/div



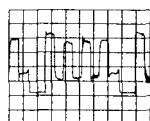
TP 22
1 V/div DC



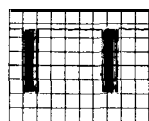
TP 27 6
50 mV/div AC
10 mS/div



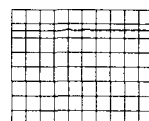
TP 4
0.2 V/div AC
10 μS/div



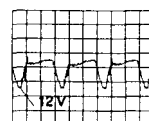
TP 11
0.5 V/div AC
10 μS/div



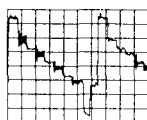
TP 17
1 V/div DC
20 mS/div



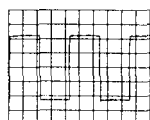
TP 23
1 V/div DC



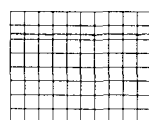
TP 28
0.5 V/div AC
5 μS/div



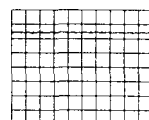
TP 5
0.1 V/div AC
10 μS/div



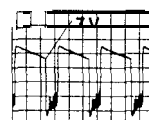
TP 12
1 V/div AC
10 μS/div



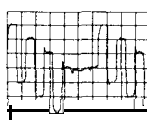
TP 18
2 V/div DC
20 mS/div



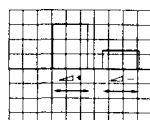
TP 24
5V/div DC



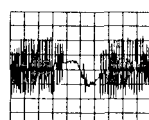
TP 28 φ
1 /div AC
10 mS/div



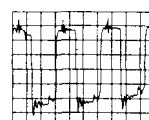
TP 6
0.2 V/div AC
10 μS/div



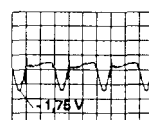
TP 13
1 V/div DC
1 S/div



TP 19
50 mV/div AC
10 μS/div



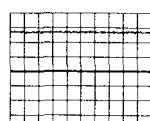
TP 25
0.2 V/div AC
5 μS/div



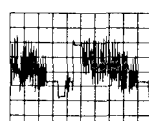
TP 29
0.5 V/div AC
5 μS/div



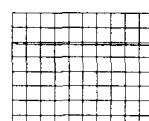
TP 7
0.2 V/div AC
10 μS/div



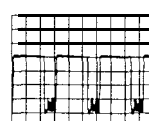
TP 14
1 V/div DC
0.5 mS/div



TP 20
0.5 V/div AC
10 μS/div



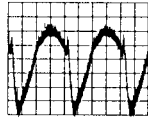
TP 26
1 V/div DC



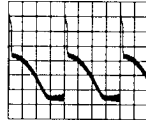
TP 29 6
1 V/div AC
10 mS/div



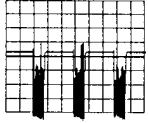
TP 30
2 V/div DC
5 μ S/div



TP 36
0,2 V/div AC
5 mS/div



TP41 b
5 V/div AC
5 mS/div



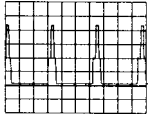
TP 30 6
1 V/div DC
10 mS/div



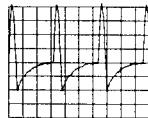
TP 37
2 V/div AC
20 μ S/div



TP41 c
0.1 V/div AC
5 mS/div



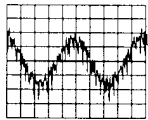
TP 31
2 V/div DC
20 μ S/div



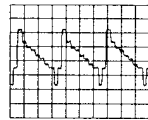
TP 38
20 mV/div AC
20 μ S/div



TP 41 d
5 V/div AC
5 mS/div



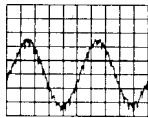
TP 32
50 mV/div DC
0.2 mS/div



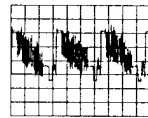
TP 39
0.2 V/div AC
20 μ S/div



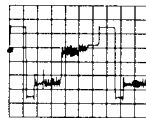
TP 51
130 V_{pp}
115 V_{pp} for 21"



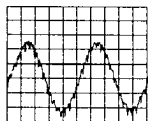
TP 33
2 V/div DC
0,2 mS/div



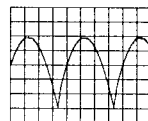
TP 40
0,5 V/div AC
20 μ S/div



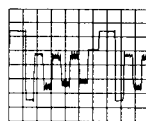
TP 52
120 V_{pp}
115 V_{pp} for 21"



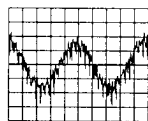
TP 34
2 V/div DC
20 μ S/div



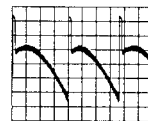
TP 41
2 V/div AC
5 mS/div



TP 53
120 V_{pp}
110 V_{pp} for 21"



TP 35
50 mV/div DC
0.2 mS/div



TP 41 a
5 V/div AC
5 mS/div

