

Service  
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Service

15GR 2330/2530

17GR 2540

15GR 2331

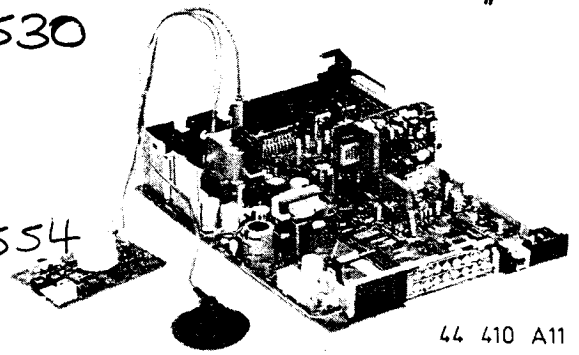
21GR 2550/2554

21GR 2752

17GR 2331

21GR 2350/05B

21GR 9752



44 410 A11

52KV2523

52KV2525

15GR2530/05B.

21GR 2651

# Service Manual

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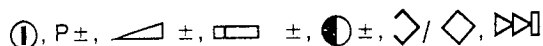
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For Service Manuals Contact  
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 Tel:- 01844-351694 Fax:- 01844-352554  
 Email:- enquiries@mauritron.co.uk

## 2 TECHNICAL DATA

Mains voltage	: 220–240 V ± 10 %
	: 50 Hz ± 5 %
Aerial input impedance	: 75 Ω – coax
Minimum aerial input VHF	: 30μV
Minimum aerial input UHF	: 40μV
Maximum aerial input	: 180mV
Pull-in range colour sync	: ±300Hz
Pull-in range horizontal sync	: ±600Hz
Pull-in range vertical sync	: ±5Hz
Picture tube range	: 11" A26JGZ31X03
	: 14" A34EAC01X70
	: 15" A36EAM01X16
	: 17" A41EAM01x16
	: 21" A51EAM31X16 or
	: A51JAR30X01MZ

Local operating functions:



Extra local operating functions for sets without remote control:



Indications

- On Screen Display (OSD)
- LED (Ⓢ, Ⓟ, RC5)

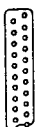
VCR programs: 0–59

Tuning and operating system: VST3

### Connection possibilities:

Rear side of the set

- 1 – Audio  $\rightarrow$  R 0,5Veff/≤1kΩ
- 2 – Audio  $\leftarrow$  R 0,2 – 2Veff/≥10kΩ
- 3 – Audio  $\rightarrow$  L 0,5Veff/≤1kΩ
- 4 – Audio  $\downarrow$
- 5 – Bleu  $\downarrow$
- 6 – Audio  $\leftarrow$  L 0,2 – 2Veff/≥10kΩ
- 7 – Bleu  $\rightarrow$  0,7V<sub>pp</sub>/75Ω
- 8 – RC5 data 500 – 800mV<sub>pp</sub> + Status CVBS 0 – 2V (L) 10 – 12V (H)
- 9 – Green  $\downarrow$
- 11 – Green  $\leftarrow$  0,7V<sub>pp</sub>/75Ω
- 13 – Red  $\downarrow$
- 15 – Red  $\leftarrow$  0,7V<sub>pp</sub>/75Ω
- 16 – Status RGB 0 – 0,4V/75Ω (L) 1 – 3V/75Ω (H)
- 17 – CVBS  $\rightarrow$   $\downarrow$
- 18 – CVBS  $\leftarrow$   $\downarrow$
- 19 – CVBS  $\rightarrow$  1V<sub>pp</sub>/75Ω
- 20 – CVBS  $\leftarrow$  1V<sub>pp</sub>/75Ω
- 21 – Earth screen



$\rightarrow$  AUDIO  $\triangleleft$  0,2 – 2V

CINCH

Front side of the set

$\odot$  CVBS  $\leftarrow$  1 V<sub>pp</sub>/75Ω

CINCH

$\odot$  Audio  $\leftarrow$  0,2 – 2 Veff/≥10k

CINCH

$\odot$   $\frac{d}{h}$  8 – 1000Ω

## WARNINGS

1. A set to be repaired should always be connected to the mains via a suitable isolating transformer.
2. Safety regulations demand that the set be restored to its original condition and that components identical with the original types be used.  
Safety components are marked by the symbol  $\triangle$
3. To prevent damage to ICs and transistors any flash-over of the EHT should be avoided.  
To prevent damage to the picture tube the method, indicated in Fig. 1, has to be applied to discharge the picture tube. Make use of an EHT probe and a universal meter (position DC-V). Discharge until the reading of the meter is 0V (after approx. 30s).

## 4. ESD

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair may reduce life drastically.

When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance.  
Keep components and tools on the same potential.

5. Together with the deflection unit and the possible multipole unit the flat square picture tubes applied form one whole. The deflection and multipole units have been adjusted optimally in the factory. Adjustment of these units during repair is thus not recommended.
6. The EHT cable has been bonded in the line output transformer. It can thus not be replaced.
7. Proceed with care when testing the EHT section and the picture tube.
8. Never replace any modules or any other parts while the set is switched on.
9. Wear safety goggles during replacement of the picture tube.
10. Use plastic instead of metal alignment tools.  
This in order to preclude short-circuit or to prevent a specific circuit from being rendered unstable.

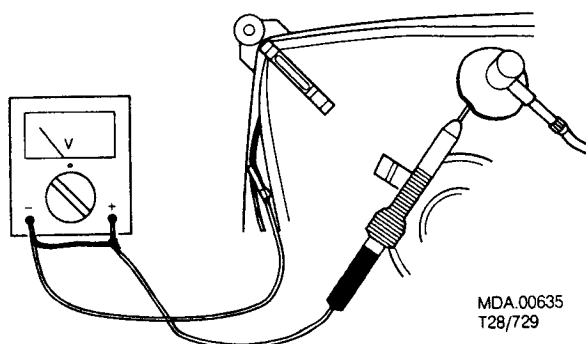


Fig. 1

## REMARKS

1. The direct voltages and waveforms should be measured relative to the nearest earthing point on the printed circuit board.
2. The direct voltages should be measured as follows:  
Do not apply an aerial signal. Adjust the receiver for minimum brightness, maximum saturation and contrast.
3. The oscillograms should be measured under the following conditions:
  - a. Use a colour bar pattern of pattern generator PM5515 as input signal.
  - b. Adjust the voltage of the saturation control at pin 6 of IC7350 to 3V DC.
  - c. Connect an oscilloscope (1V/cm-10 $\mu$ sec/cm) to pin 16 of IC7350. Set the brightness control so that the level of the black bar in the video signal is lying at 2.7V (see Fig. 2). Set the contrast control for a video signal amplitude of 2.4V (see Fig. 2).
4. If necessary, the oscillograms and DC voltages are measured with  $(\square\square)$  and without  $(\times\times)$  aerial signal. Voltages in the power supply section have been measured for both normal operation  $(\textcircled{1})$  and in the stand-by mode  $(\textcircled{0})$ . These values have been indicated by means of the corresponding symbols.
5. The components, mentioned in the parts lists, are per position completely interchangeable with the components in the set, irrespective of the possible type indications.
6. The picture tube board is provided with printed spark gaps. Each spark gap is arranged between an electrode of the picture tube and the aquadag coating.
7. Connectors used for the modules (board to board) have been gold-plated and must be replaced by the same type only.
8. The accessibility of the circuits on the SECAM/PAL transcoder can be increased through application of extension printed circuit boards.  
Code numbers of extension printed circuit boards:  
4-fold 4822 395 30262  
5-fold 4822 395 30261

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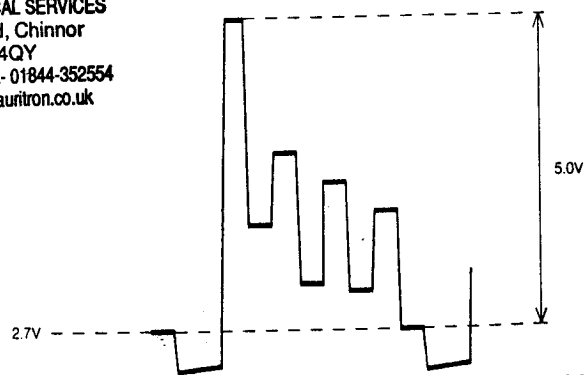


Fig. 2

## MECHANICAL INSTRUCTIONS

### 1. Servicing position

To facilitate troubleshooting and repairing the set, the chassis can, after disconnection of the degaussing coil, be pulled out of the cabinet, turned 180°, and placed behind it.

### 2. Flat square picture tube fixation.

Demounting the picture tube:

Loosen the nuts by turning them with a box spanner hexagon (10 mm) **clockwise**, (see Fig. 3).

Mounting the picture tube:

Turn the spindles **counterclockwise** into the mask with a box spanner hexagon (4 mm).

Locate the picture tube in the mask. The easiest way is placing the cabinet with the front facing down.

Position the picture tube in the middle of the mask.

Turn the spindles **clockwise** until the nut can be fixed onto the spindle.

Turn the nut **counterclockwise** finger-tight against the picture tube fixation.

Turn the spindle **clockwise** until the whole has been fixed tightly (the nut must not turn any more).

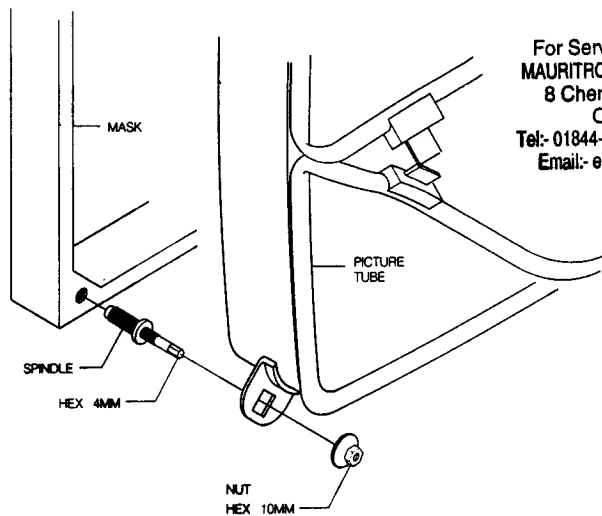


Fig. 3

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 T-27/841

## 3. Servicing of SMDs (Surface Mounted Devices)

### 3.1 General cautions on handling and storage.

- Oxidation on the SMDs terminals results in poor soldering. Do not handle SMDs with bare hands.
- Avoid for storage places that are sensitive to oxidation such as places with sulfur or chlorine gas, direct sunlight, high temperatures or a high degree of humidity. As a result the capacitance or resistance value of the SMDs may be affected.
- Rough handling of circuit boards containing SMDs may cause damage to the components as well as the circuit boards. Circuit boards containing SMDs should never be bent or flexed. Different circuit board materials expand and contract at different rates when heated or cooled and the components and/or solder connections may be damaged due to the stress. Never rub or scrape chip components as this may cause the value of the component to change. Similarly, do not slide the circuit board across any surface.

### 3.2 Removal of SMDs

- Heat the solder (for 2–3 seconds) at each terminal of the chip. Small components can, by means of litz wire and a limited horizontal force, be removed with the soldering iron. They can also be removed with a solder sucker (see Fig. 4) or
- While holding the SMD with a pair of tweezers take it off gently using the soldering iron's heat applied to each terminal (see Fig. 4B).
- Remove the excess solder on the solder lands by means of litz wire or a solder sucker (see Fig. 4C).

#### Caution on removal:

- When handling the soldering iron, use suitable pressure and be careful.
- When removing the chip, do not use undue force with the pair of tweezers.
- The soldering iron to be used (approx. 30 W), must preferably be provided with a thermal control (soldering temperature about 225 to 250°C).
- The chip, once removed, must **never** be used again.

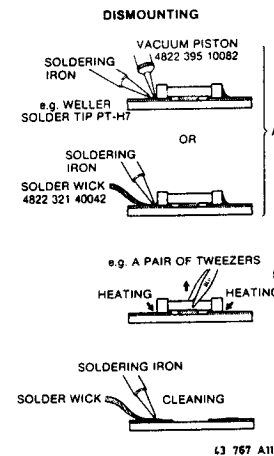


Fig. 4

### 3.3 Attachment of SMDs

- Locate the SMD on the solder lands by means of tweezers and solder the component at one side. Ensure that the component is positioned well on the solder lands (see Fig. 5A).
- Next complete the soldering of the terminals of the component (see Fig. 5B).

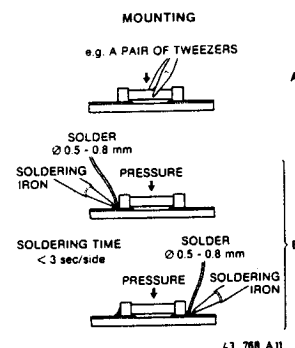


Fig. 5

**10. The picture demodulator**

Connect a signal generator (e.g. PM5326) as shown in Fig. 10 and adjust it for a frequency of 38.9 MHz (PAL I: 39.5 MHz). Modulate (AM) the signal with 1 kHz. Unsolder resistor 3001 at one side (power supply voltage for the tuner). Connect an oscilloscope to pin 22 of IC7020 and adjust 5035 for a maximum (undistorted) signal. Ensure that the demodulator is not overloaded. Secure resistor 3001 again by soldering.

**11. AFC**

Connect a signal generator (e.g. PM 5326) as indicated in Fig. 10 and adjust the frequency for 38.9 MHz (PAL I: 39.5 MHz). Connect a voltmeter to pin 15 of IC7020 and adjust 5034 for 6V (DC).

**12. RF AGC**

If the picture of a strong local transmitter is reproduced distorted, adjust potentiometer 3012 until the picture is undistorted.

**13. The sound section**

Apply a generator signal whose sound carrier is (FM) modulated with a frequency of 1 kHz. Set the generator to the mono mode. Adjust 5115 for maximum sound output.

**14. Adjustments on the teletext decoder**

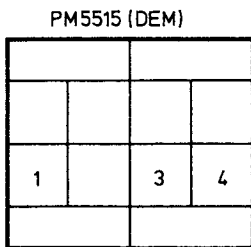
Connect pin 22 of IC7830 to ground. Connect a frequency counter to pin 17 of IC7830 and adjust 5803 for 6.010 MHz  $\pm$  2.5 kHz. Remove the interconnection.

**B. ADJUSTMENTS ON THE PICTURE TUBE PANEL**

(Fig. 12)

**1. Cut-off point of picture tube**

Apply a white frame signal. Connect pin 7 of IC7350 to ground. Adjust brightness and contrast until the DC voltage across potentiometer 3380 is 0V. Adjust 3412, 3422 and 3432 for a black level of 105V on the collectors of transistors 7406, 7416 and 7426 for 11" sets. For sets larger than 11" the black level should be adjusted for 130V. Now turn Vg2 potentiometer (see Fig. 8) until the gun that first emits light is just no longer visible. Adjust the two other guns with the respective controls (3412, 3422 or 3432) until just no light will be visible. Remove the interconnection.



42 117 A12

Fig. 9

**2. Grey scale**

Apply a test pattern signal and adjust the set for normal operation. Allow the set to warm up for about 10 minutes. Adjust 3380 and 3384 until the desired grey scale has been obtained.

**C. ADJUSTMENTS SECAM/PAL TRANSCODER**

(see Fig. 13)

**1. "Circuit cloche"**

Disconnect jumper 9302 at one side. Apply a signal of a signal generator to capacitor 2316. Adjust the frequency of the signal generator for 4.286 MHz. Connect an oscilloscope to pin 3 of IC7310. Adjust 5316 for maximum amplitude. Connect jumper 9302.

**2. Subcarrier oscillator**

Apply a 75% SECAM colour bar pattern. Connect pin 6 of IC7310 by means of a 10k resistor to ground. Connect a frequency counter with a high input impedance (via a probe  $C \leq 2pF$ ) to pin 26 of IC7350. Adjust 2332 for a frequency of 8.867236 MHz. Disconnect the resistor.

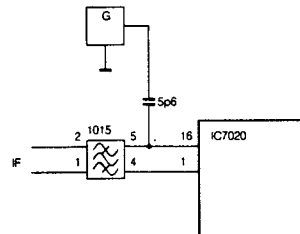
**3. SECAM demodulator**

Apply a SECAM black frame signal. Connect an oscilloscope to pin 14 of IC7310. Adjust 3347 and 5347 for a minimum modulation.

**4. Delay line**

a. Amplitude  
Apply a SECAM red frame signal. Connect an oscilloscope to pin 28 of IC7350. Adjust 3335 for an equal amplitude of the lines.  
b. Phase  
Adjust for normal brightness and contrast. Connect an oscilloscope to pin 16 of IC7350. Apply a 75% PAL colour bar pattern. Adjust the saturation control for an as flat signal as possible. Then apply a 75% SECAM colour bar pattern. Adjust 5337 so that the signal is virtually flat again.

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PRS 5330  
T02/836

Fig. 10

**Caution on attachment:**

- When soldering the SMD terminals, do not touch them directly with the soldering iron. The soldering must be as quick as possible; care must be taken to avoid damage to the terminals and the body itself.
- Keep the SMD's body in contact with the printed board when soldering.
- The soldering iron to be used (approx. 30 W ) must preferably be provided with a thermal control (soldering temperature about 225 to 250°C).
- Soldering should not be done outside the solder land.
- Soldering flux (of rosin) may be used but should not be acidic.
- After soldering, let the SMD cool down gradually at room temperature.
- The quantity of solder must be proportional with the size of the solder land. If the quantity is too great, the SMD might crack or the solder lands might be torn loose from the printed board (see Fig. 6).

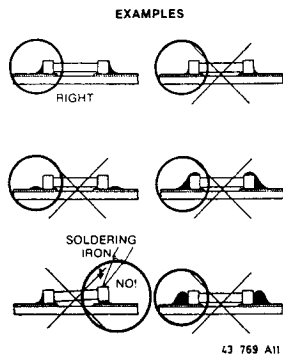


Fig. 6

**4. Installation instructions for the SECAM/PAL transcoder**

Mount connectors 4822 417 50217 and 4822 267 40648, if not present, at positions M8 and M9.  
Remove SMD-jumpers 3318 and 3319.

Place the SECAM/PAL transcoder on connectors M8 and M9.

Mount bracket 4822 404 30991 as indicated in Fig. 8.  
The set is now capable of receiving both PAL B/G and SECAM B/G.

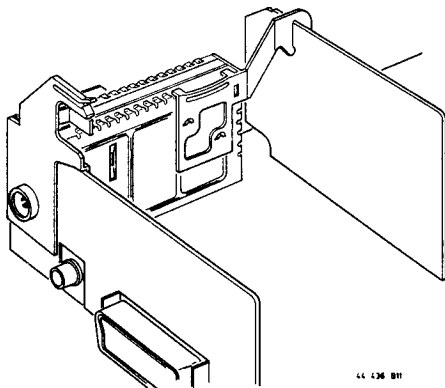


Fig. 7

**ELECTRICAL INSTRUCTIONS****A. Adjustments on the main panel**

(Fig. 11)

- +95V power supply voltage**  
Connect a voltmeter (DC) between pin 5 of connector A5 and ground. Adjust potentiometer 3635 for a voltage of +95V.
- Horizontal synchronization**  
Interconnect pins 5 and 9 of IC7470.  
Apply an aerial signal and tune the receiver.  
Adjust potentiometer 3457 until the picture is straight.  
Remove the interconnection.
- Horizontal centring**  
Is adjusted with potentiometer 3461.
- Picture width**  
Is adjusted with potentiometer 3525.
- Vertical centring**  
Is adjusted with switch SK11.
- Picture height**  
Is adjusted with potentiometer 3510.
- Focussing**  
Is adjusted with the focussing potentiometer in the line output transformer (see Fig. 8).
- Chroma subcarrier oscillator**  
Apply a colour-bar pattern. Interconnect pins 23 and 24 of IC7350. Connect a 470Ω resistor between pins 1 and 6 of IC7350. Adjust 2352 so that colour pattern on the screen is practically stationary.  
Remove the resistor and the interconnection.
- PAL delay line**  
Apply a generator signal from a PM5515. Set the generator to "DEM". Set contrast and brightness to normal and set the saturation control to 3/4 of its range. Adjust potentiometer 3334 so that the venetian-blinds effect in the 3rd bar is minimal (see Fig. 9). Subsequently, adjust 5330 until the venetian-blinds effect in the 1st and the 4th bar is also minimal. Readjust 3274 if necessary.

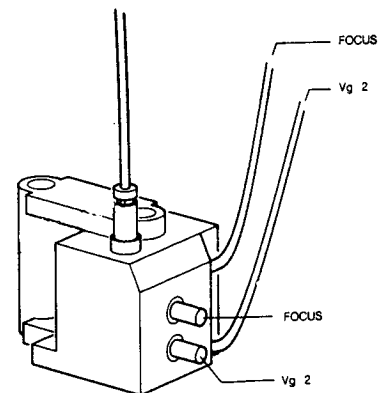


Fig. 8

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CP90  
T26/723

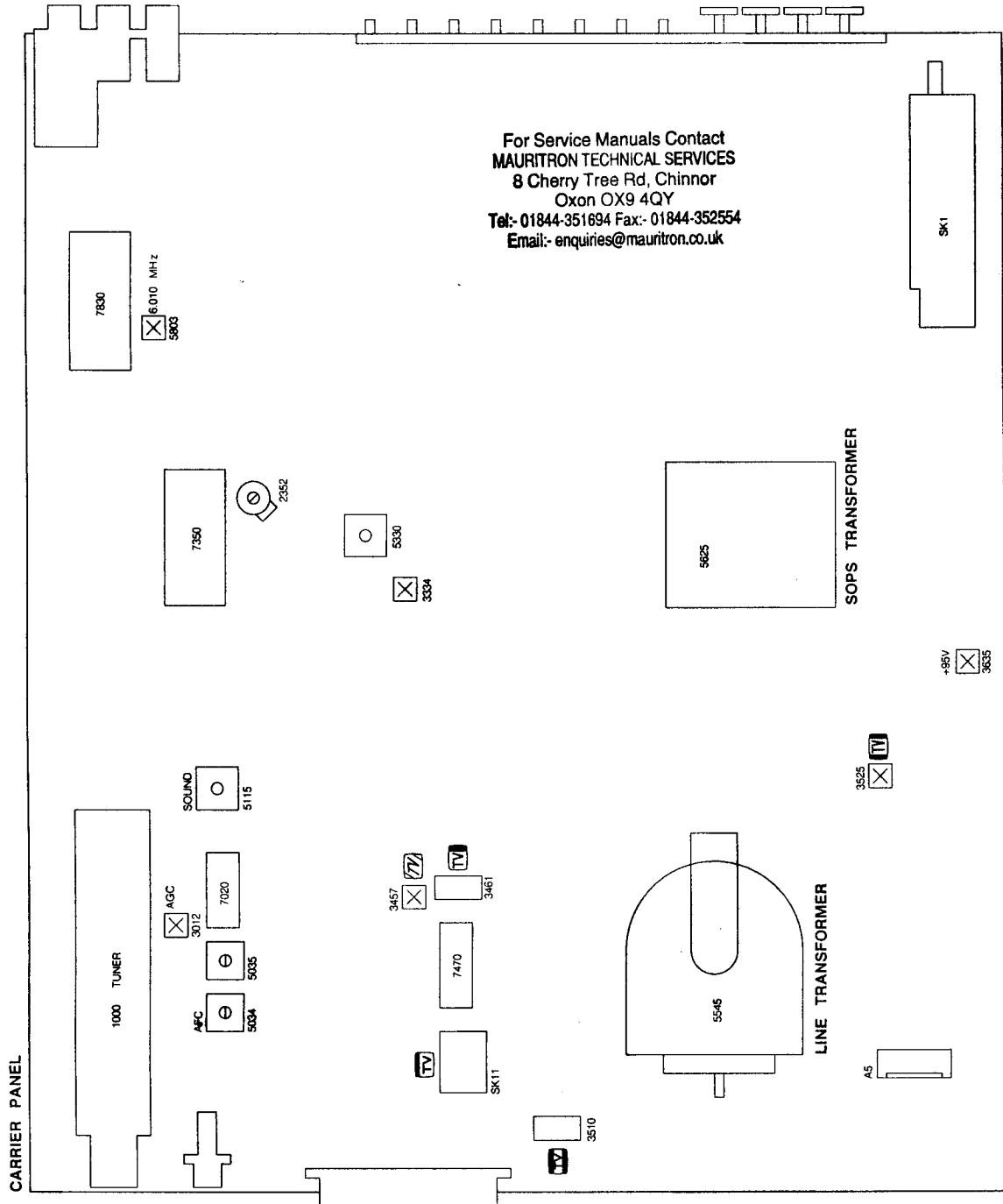


Fig. 11

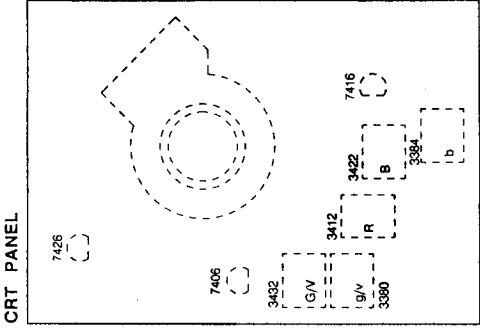


Fig. 12

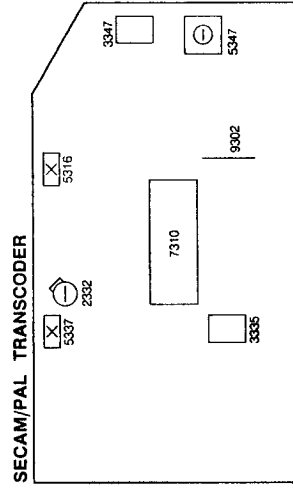
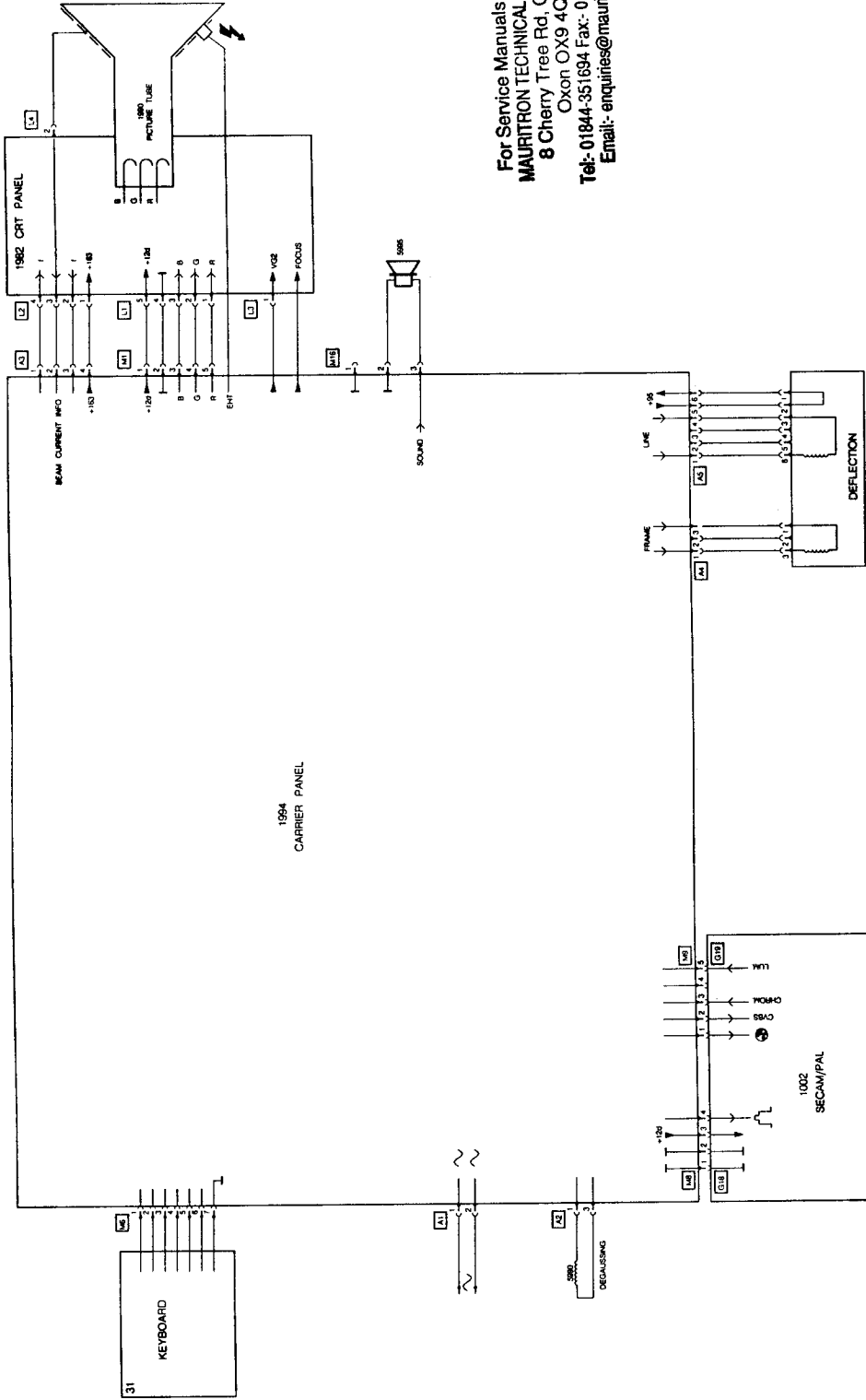


Fig. 13

MDA.01684  
107-8465  
CHASSIS G90AE



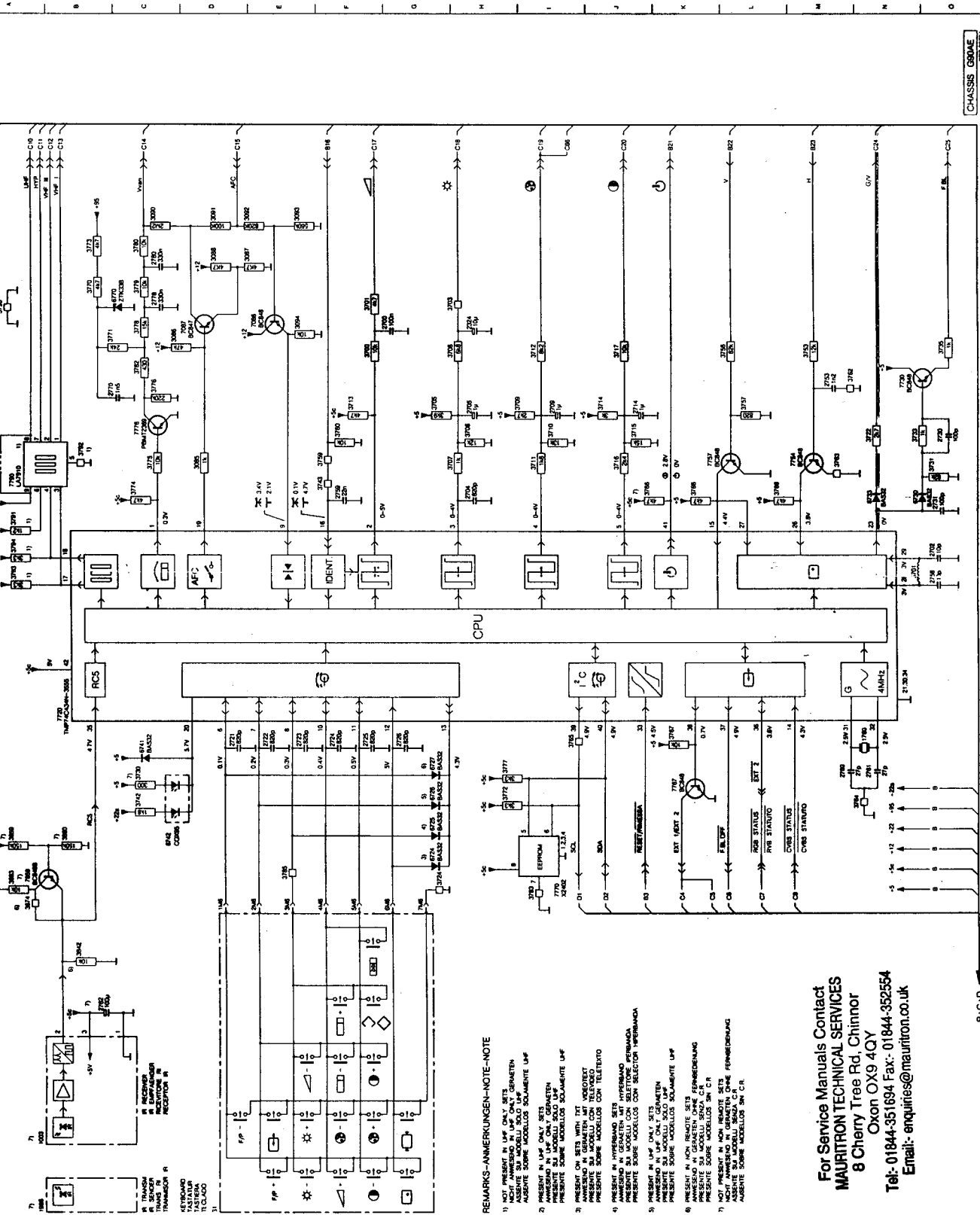
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CHASSIS G90AE

PHS 05558  
 102/817



DIAGRAM-SCHALTBILD-SCHEMA-DIAGRAM A



CHASSIS GOALE  
TYPE 3500  
1-0-1988

REMARKS-ANMERKUNGEN-NOTE

- 1) NOT PRESENT IN U.F. ONLY SETS.  
NON PRESENTI NEI U.F. SOLO SETS.  
ABSENTE SU MODELLI SOLO U.F.
- 2) PRESENT IN U.F. ONLY SETS.  
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PRESENTI SOLO NEI MODELLI SOLO U.F.
- 3) PRESENT IN SETS WITH U.F. VORCONTROL.  
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- 4) PRESENT IN SETS WITH U.F. VORCONTROL.  
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PRESENTI SOLO NEI SETS WITH U.F. VORCONTROL.
- 5) PRESENT IN U.F. ONLY SETS.  
PRESENTI NEI U.F. SOLO SETS.  
PRESENTI SOLO NEI MODELLI SOLO U.F.
- 6) PRESENT IN NON REMOTE SETS.  
PRESENTI NEI SETS NON REMOTE.  
PRESENTI SOLO NEI SETS NON REMOTE.
- 7) NOT PRESENT IN U.F. ONLY SETS.  
NON PRESENTI NEI U.F. SOLO SETS.  
ABSENTE SU MODELLI SOLO U.F.

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B+C+D

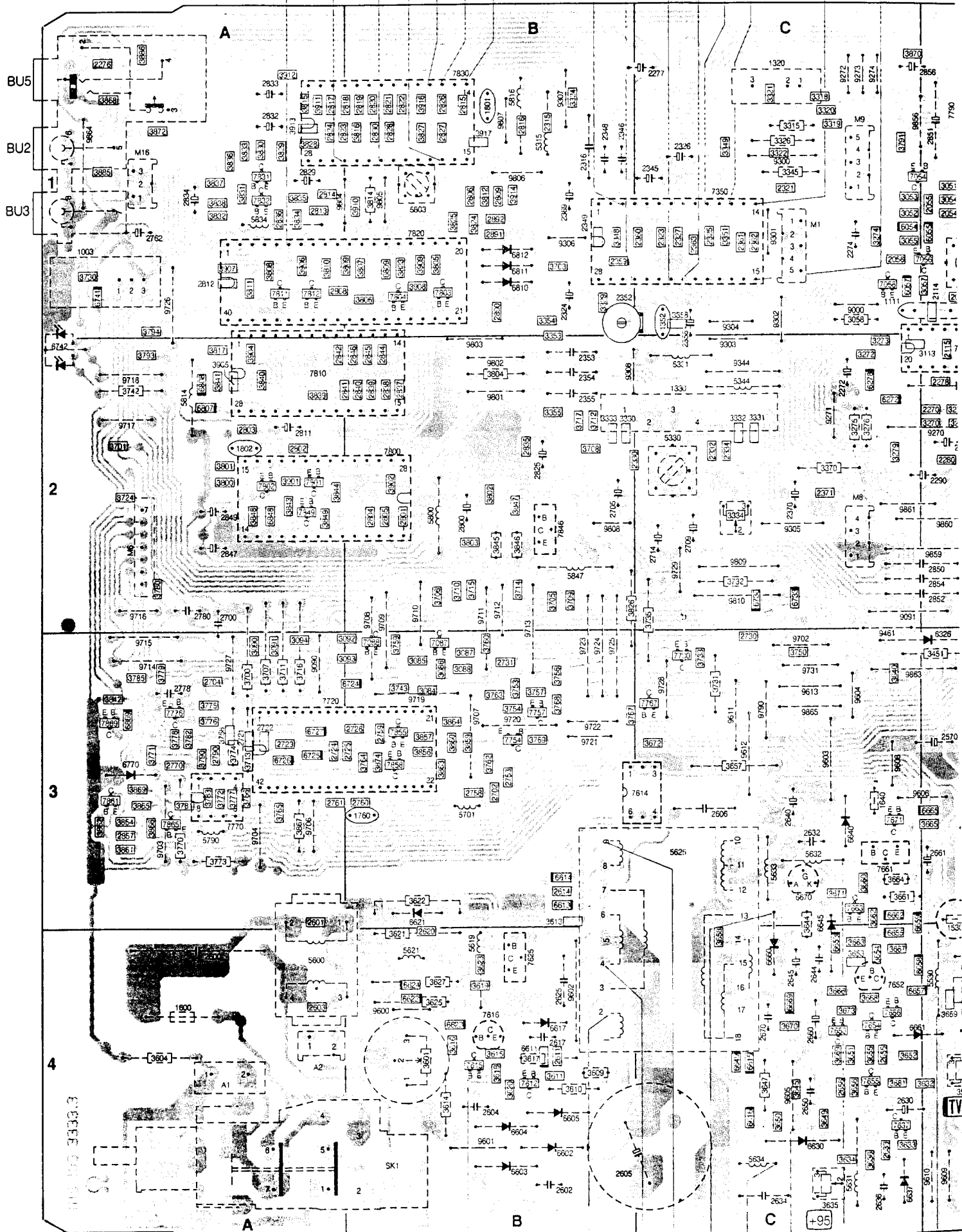


1000	E1	2475	E2	2834	A1	3358	C1	3661	C3	3833	A1	5814	A2	7652	C4	9712	B2
1003	A1	2500	E3	2836	A1	3370	C2	3661	C3	3834	A1	5816	B1	7653	C4	9713	B2
1015	D1	2503	E3	2837	B2	3450	E3	3662	C3	3835	A1	5833	C3	7654	C4	9716	A2
1030	D1	2505	E3	2838	B2	3451	D3	3663	C4	3835	B2	5834	A1	7655	C4	9717	A2
1111	C1	2506	E3	2839	B2	3452	E2	3664	C3	3837	A1	5847	B2	7656	C4	9718	A2
1320	C1	2509	E3	2840	B2	3453	E2	3665	D3	3838	A1	5857	D2	7661	C3	9719	B3
1330	C2	2526	D3	2841	B2	3454	E2	3666	C4	3839	A2	6054	C1	7663	C3	9720	B3
1352	E1	2531	D3	2842	A2	3455	E2	3667	C4	3840	A2	6055	D1	7671	C3	9721	B3
1500	E4	2534	D3	2843	D3	3456	D2	3668	C4	3841	A2	6057	C1	7720	A3	9722	B3
1530	D4	2540	D4	2844	B2	3457	D2	3669	C4	3842	A3	6272	C2	7730	C3	9723	B3
1600	A4	2542	D4	2845	B2	3458	D2	3670	C4	3843	A2	6278	C2	7754	B3	9724	B3
1640	C3	2544	D4	2846	B2	3459	D2	3672	C3	3844	A2	6326	D3	7757	B3	9725	B3
1760	B3	2545	E4	2847	A2	3460	D2	3673	C4	3845	B2	6455	E2	7767	C3	9726	A1
1801	B1	2546	D4	2849	A2	3461	D2	3681	C4	3846	B2	6465	D2	7770	A3	9727	A3
1802	A2	2547	D4	2850	D2	3462	D2	3700	A3	3847	B2	6520	E4	7776	A3	9728	C3
1843	D3	2550	D4	2851	D1	3463	D2	3701	A2	3848	A2	6521	E3	7790	D1	9729	B2
2001	E1	2551	D4	2852	D2	3465	E3	3703	B1	3849	A2	6522	E3	7800	B2	9731	C3
2002	E1	2560	E3	2853	E3	3466	D3	3705	B2	3850	E3	6546	E4	7801	A2	9790	C3
2003	E1	2570	D3	2854	D2	3468	D3	3706	B2	3851	E2	6547	D4	7802	A2	9801	B2
2004	E1	2580	D3	2856	D1	3469	D3	3707	A3	3852	E3	6550	D4	7803	B1	9802	B2
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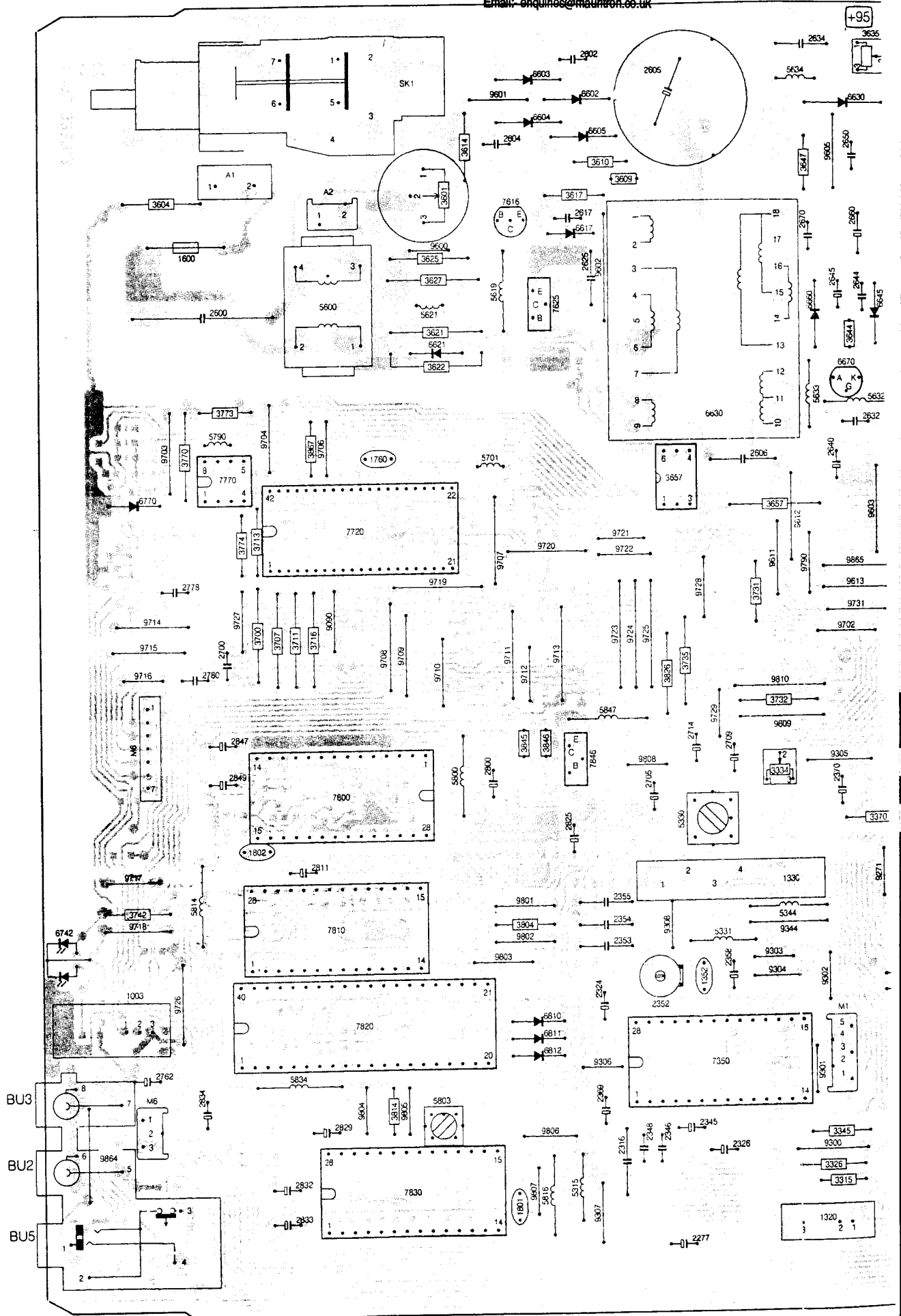
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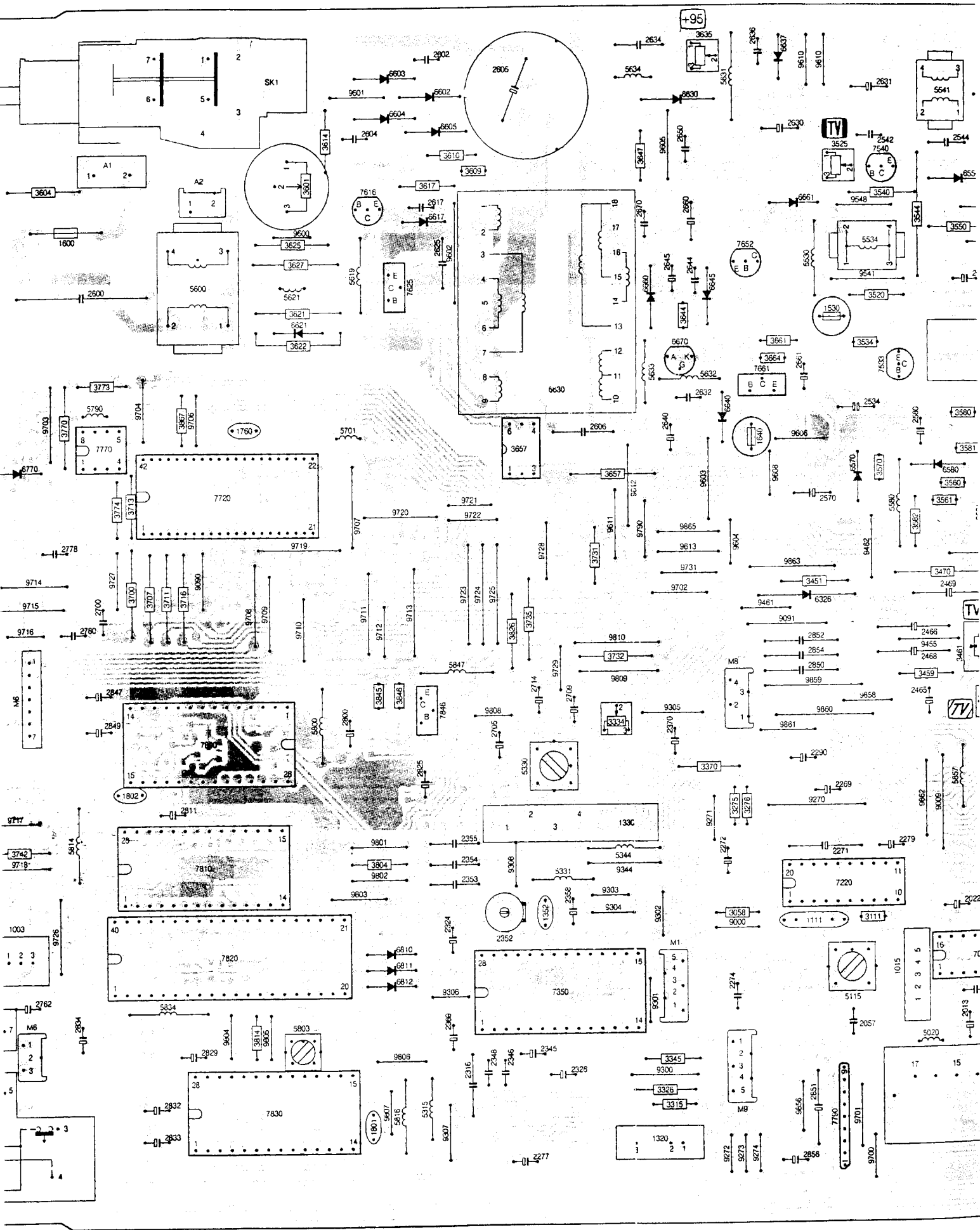


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CARRIER PANEL







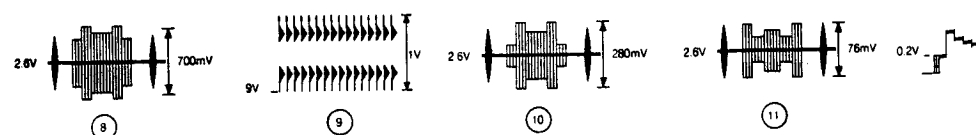
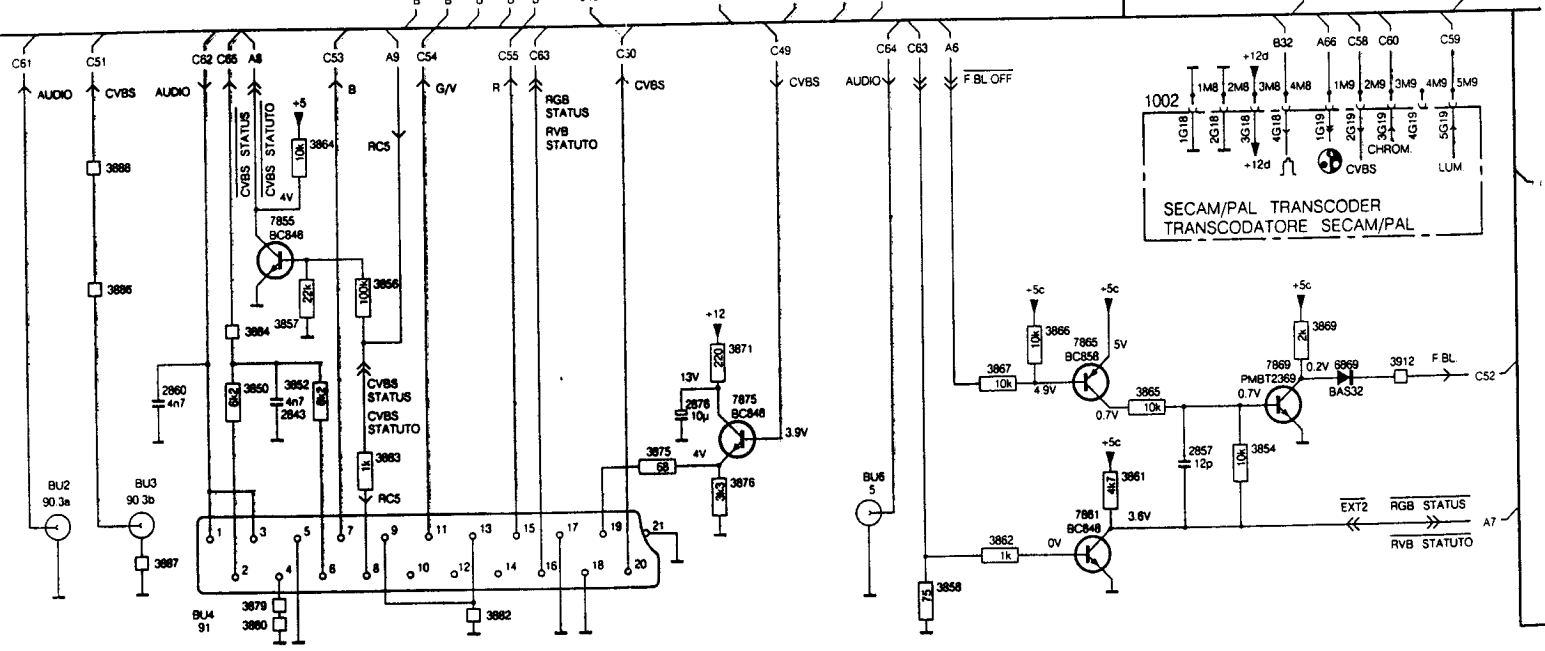
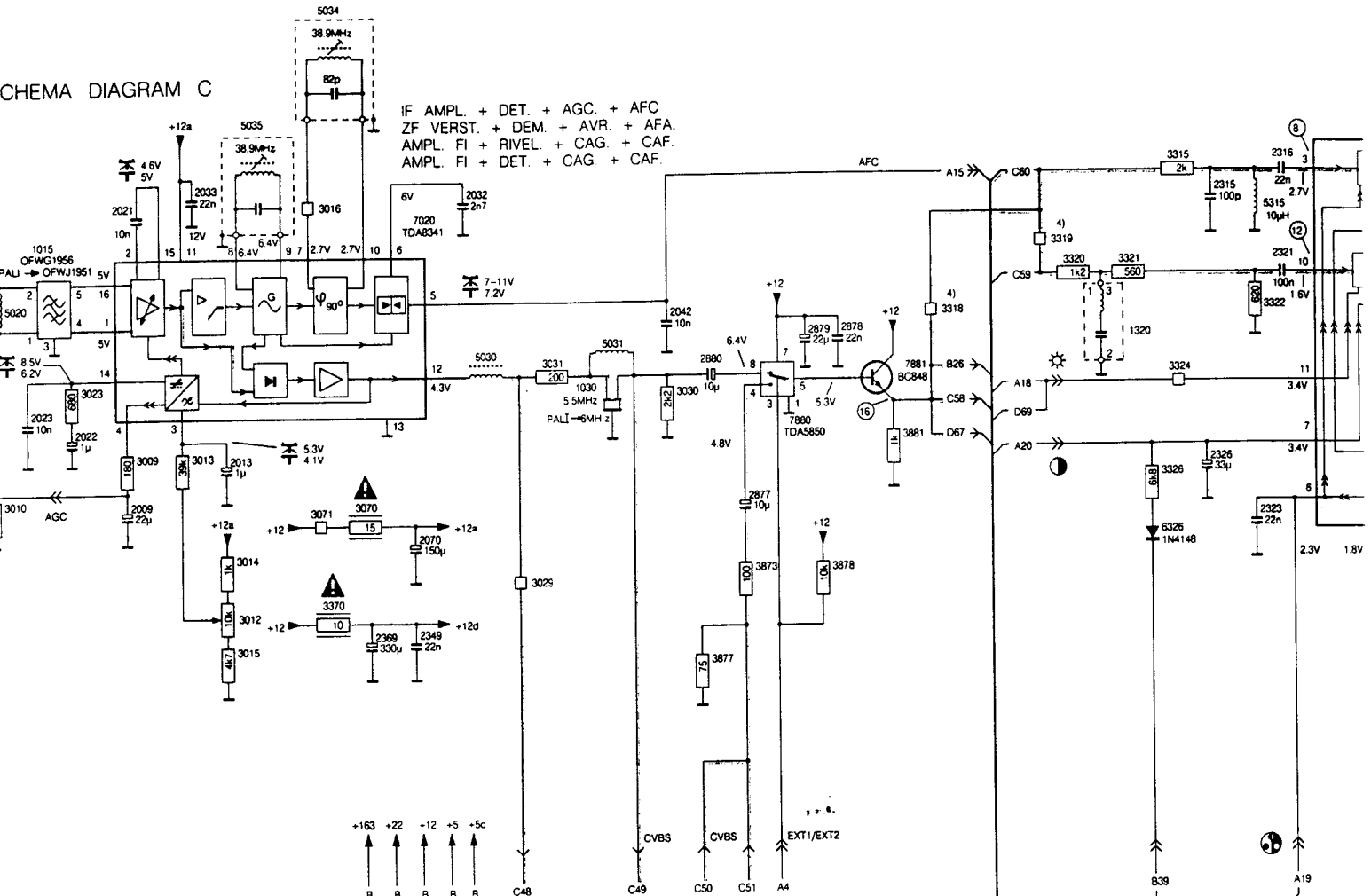






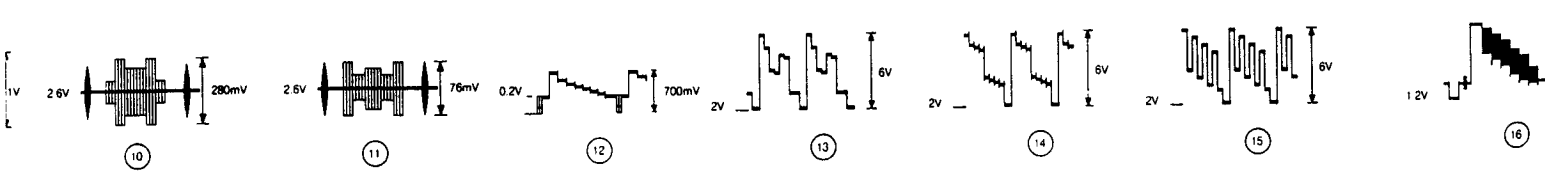
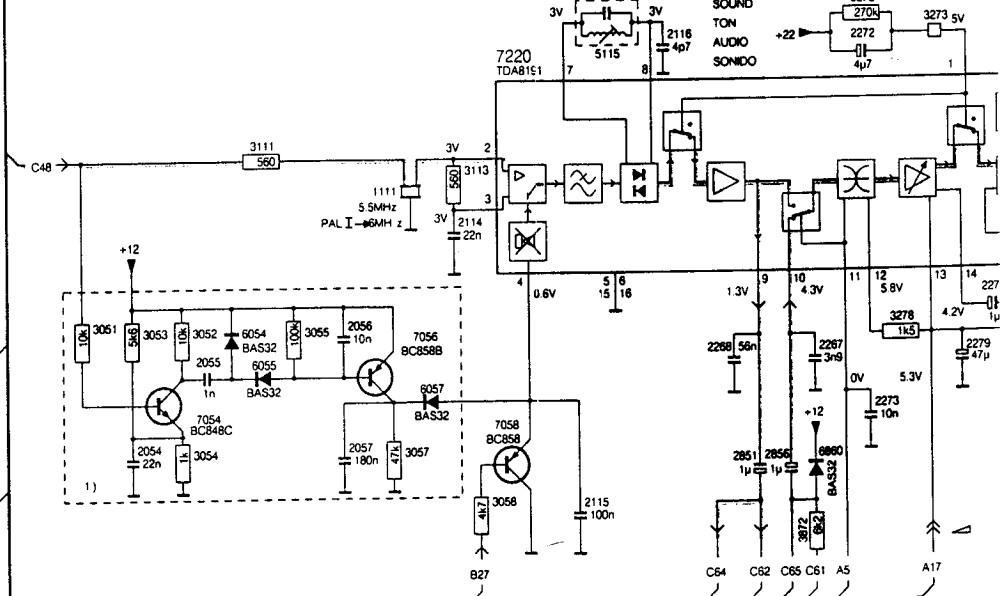
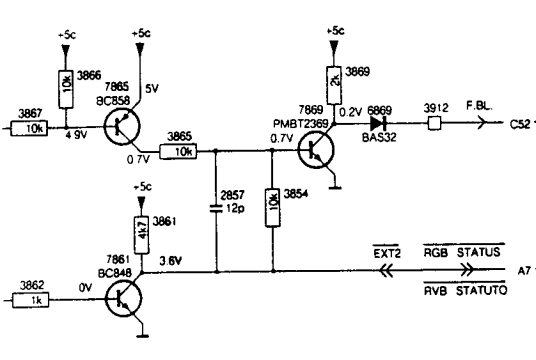
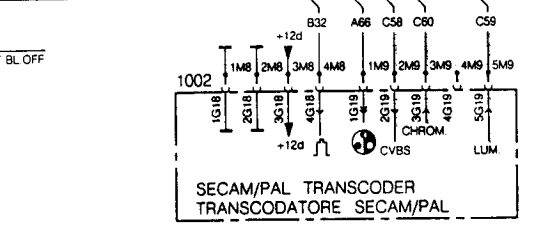
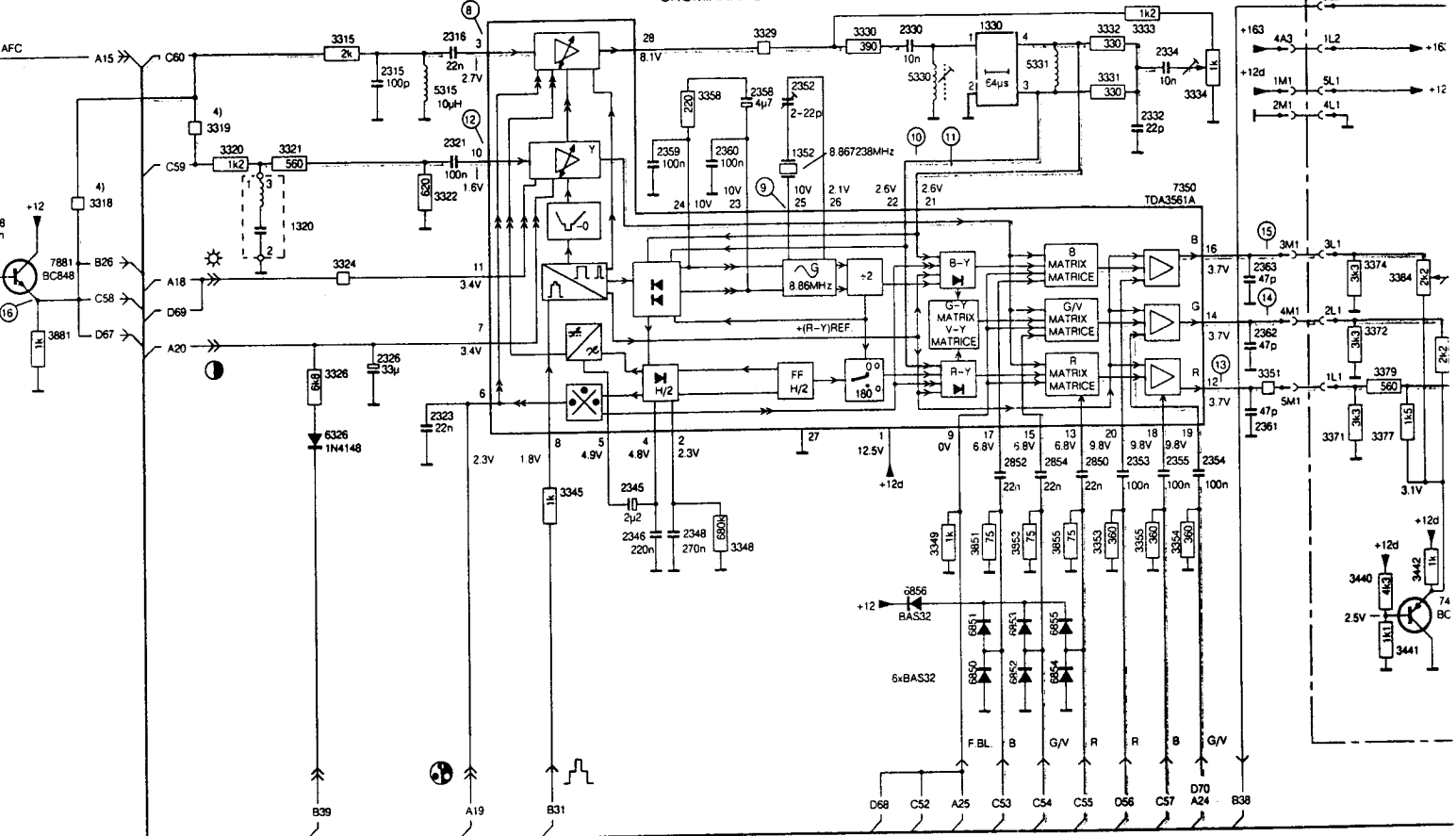
SCHEMA DIAGRAM C

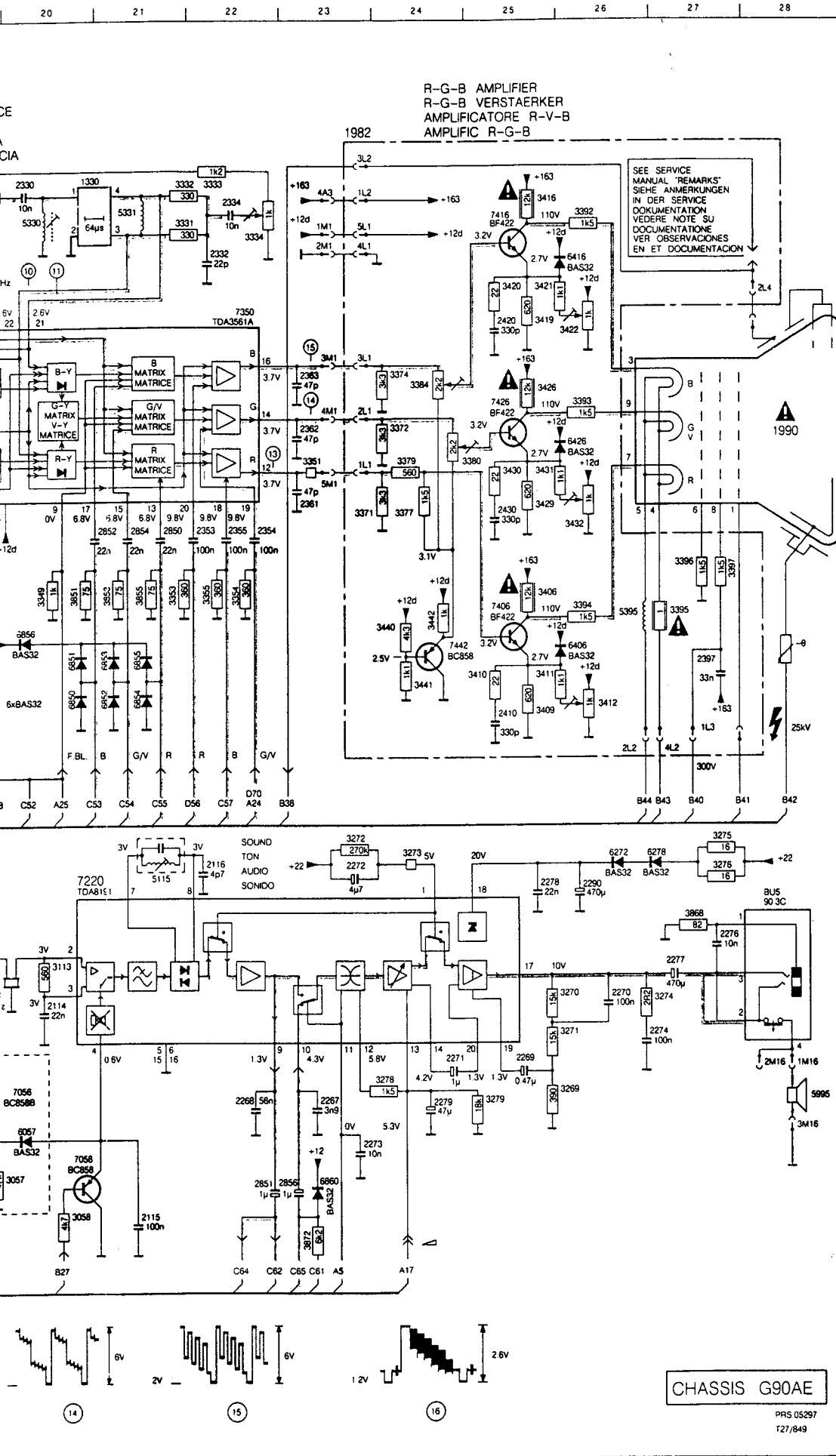
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ZF VERST. + DEM. + AVR. + AFA.  
AMPL. FI + RIVEL. + CAG. + CAF.  
AMPL. FI + DET. + CAG. + CAF.



CHROMINANCE + LUMINANCE  
 FARBAR + LEUCHTDICHTE  
 CROMINANZA + LUMINANZA  
 CROMIANANCIA + LUMINANCIA

R-G-  
 R-G-  
 AMPL  
 AMPL

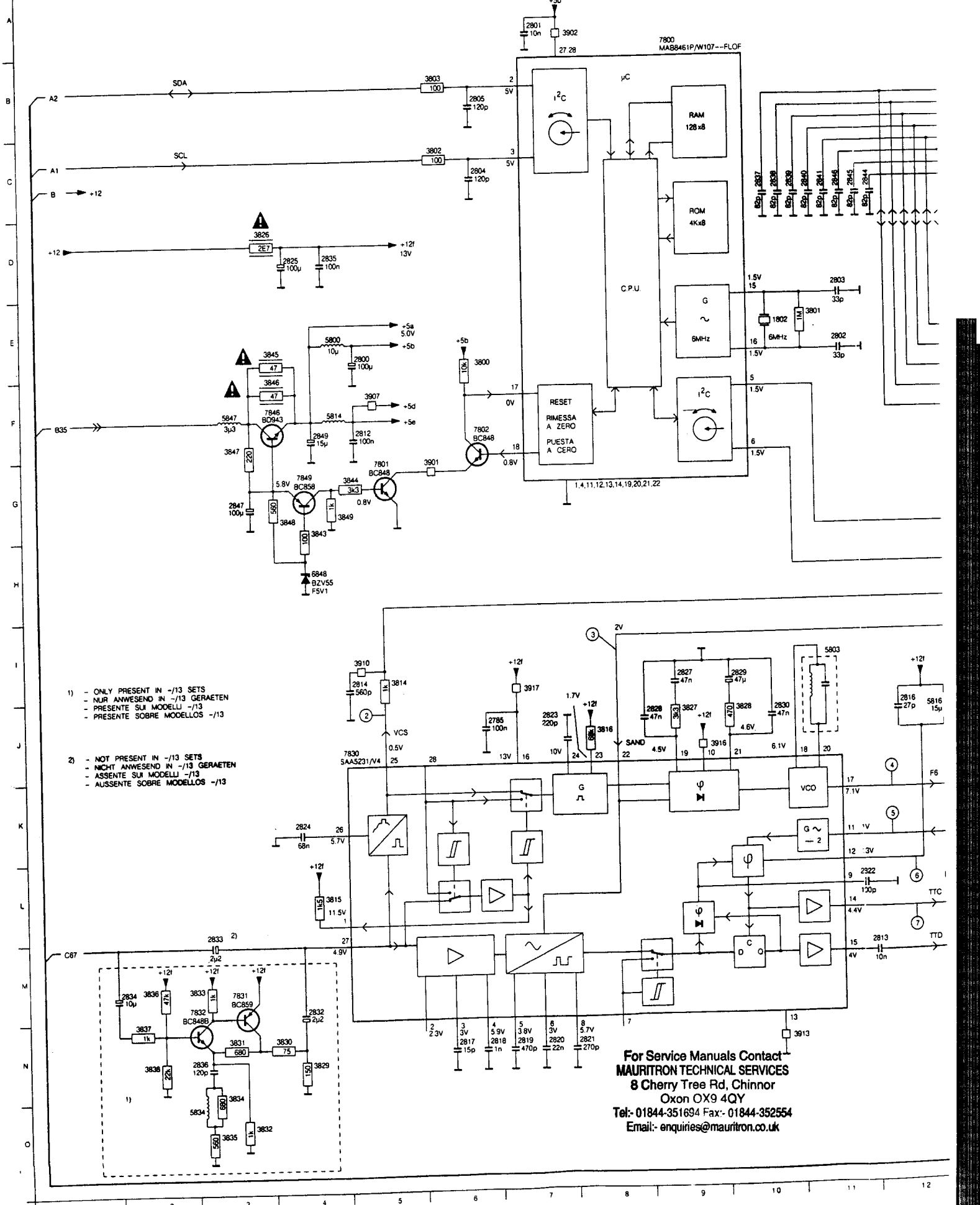




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1990	E28	3380	E25
1µ5	C 4	3384	D24
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2003	F 2	3393	D26
2004	F 2	3394	G26
2005	F 2	3395	G27
2006	F 2	3396	F27
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2013	E 6	3410	G25
2021	B 5	3411	G25
2022	D 5	3412	H26
2023	D 4	3416	B25
2032	B 8	3419	C25
2033	B 6	3420	C25
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3272	L23	90 3b	M 5
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3345	F17		
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3349	F20		
3351	E23		
3353	F21		

For Service Manuals Contact  
**MAURITRON TECHNICAL SERVICES**  
 8 Cherry Tree Rd, Chinnor  
 Oxon OX9 4QY  
 Tel: 01844-351694 Fax: 01844-358554  
 Email: enquiries@mauritron.co.uk

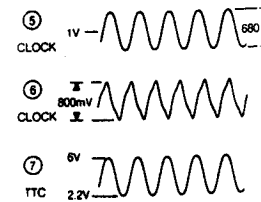
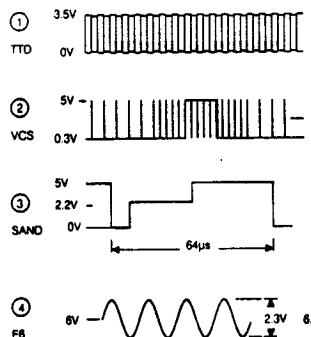
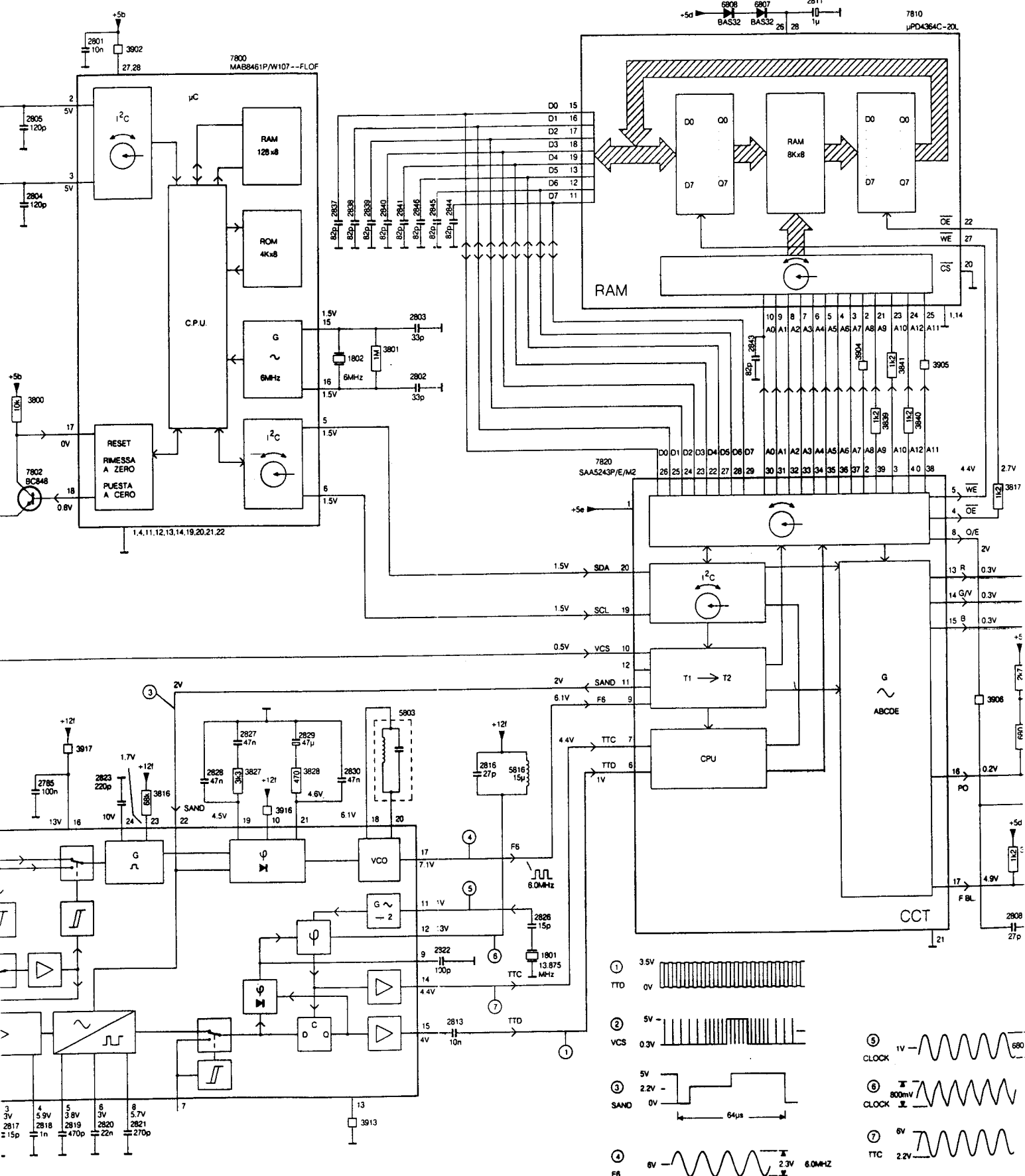
DIAGRAM-SCHALTBILD-SCHEMA-DIAGRAM D TXT DECODER - VIDEOTEXT DECODER - D



- 1) - ONLY PRESENT IN -/13 SETS  
 - NUR ANWESEND IN -/13 GERÄTEN  
 - PRESENTE SUI MODELLI -/13  
 - PRESENTE SOBRE MODELLOS -/13
- 2) - NOT PRESENT IN -/13 SETS  
 - NICHT ANWESEND IN -/13 GERÄTEN  
 - ASSENTE SUI MODELLI -/13  
 - AUSSENTE SOBRE MODELLOS -/13

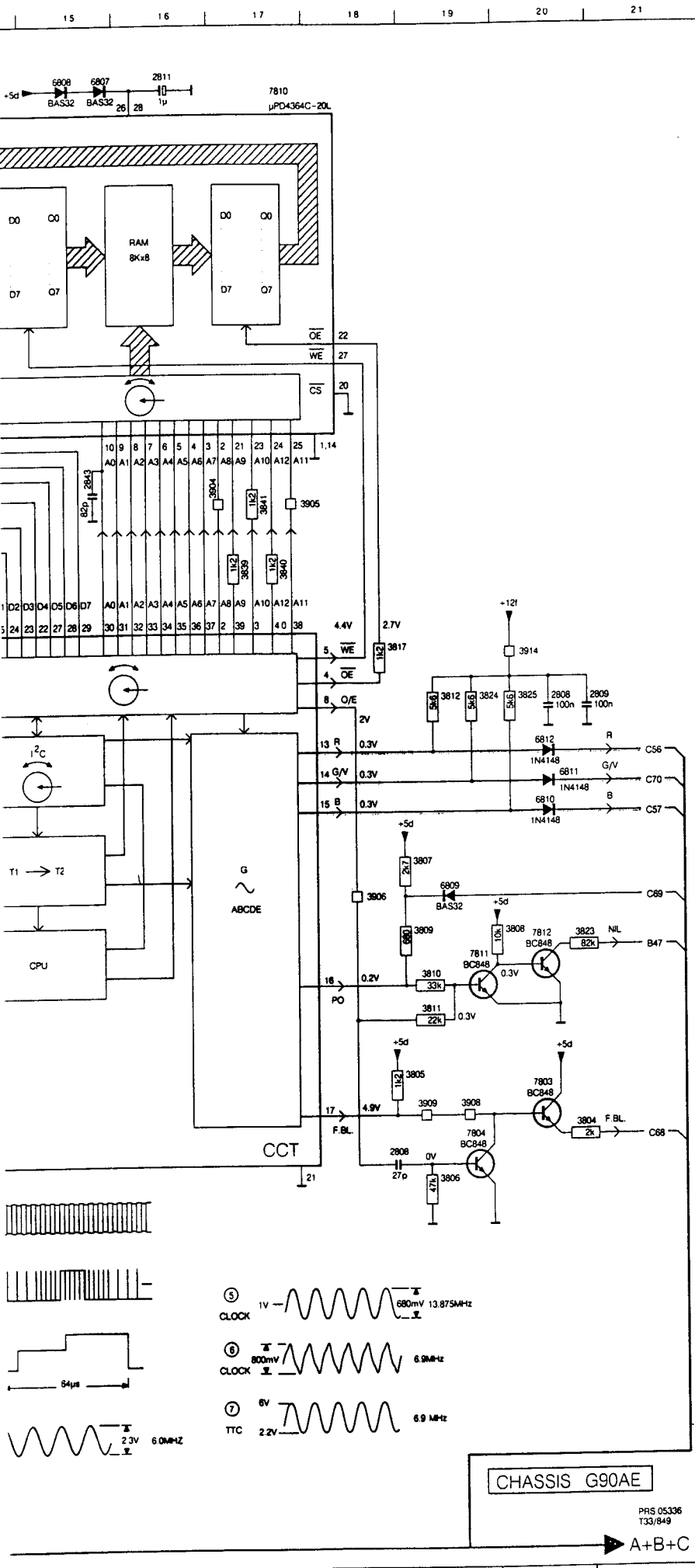
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 8 Cherry Tree Rd, Chinnor  
 Oxon OX9 4QY  
 Tel:- 01844-351694 Fax:- 01844-352554  
 Email:- enquiries@mauritron.co.uk

# GRAM D TXT DECODER - VIDEOTEXT DECODER - DECODIFI





CHASSIS



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- 2800 E 5
- 2801 A 7
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- 2805 B 6
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- 5847 F 3
- 6807 A15
- 6808 A15
- 6809 I19
- 6810 H20
- 6811 H20
- 6812 G20
- 6848 H 4
- 7800 A 9
- 7801 G 5
- 7802 F 6
- 7803 K20
- 7804 K19
- 7810 A17
- 7811 J19
- 7812 I20
- 7820 F13
- 7830 J 5
- 7831 M 3
- 7832 M 2
- 7848 F 4
- 7849 G 4

**MECHANICAL PARTS**

4822 492 63524	SPRING
4822 492 70158	SPRING
4822 256 30274	FUSE F
4822 277 10976	MAINS
4822 273 30206	SWITCH
4822 404 30989	BRACKET
4822 404 30991	BRACKET
	transc.
4822 276 80347	FOIL KI

**BOARD**

A1	4822 265 40596	2P MAIN
A2	4822 265 30389	2P DEC
A3	4822 265 30378	4P
A4	4822 264 40207	3P
A5	4822 265 40421	6P
M1	4822 265 30351	5P
M6	4822 267 50823	7P FOIL
M8	4822 417 50217	4P GOLD
M9	4822 267 40648	5P GOLD
M16	4822 264 40207	3P
	4822 267 31029	CINCH
	4822 267 60188	CVBS/ε
	4822 267 60243	EUROC

**CABLE**

A1	4822 290 60626	2P MAIN
A3/L2	4822 267 40597	4P
A4	4822 267 40582	3P
A5	4822 267 40584	6P
M1/L1	4822 267 40583	5P
M16	4822 267 40582	3P

**VARIOUS PARTS**

1000	4822 210 50118	TUNER
1000	4822 210 40273	TUNER
1003	4822 212 22983	INFRA
1015	4822 242 71852	FILTER
1015	4822 242 70824	FILTER
1030	4822 153 30025	FILTER
1030	4822 242 72211	FILTER
1111	4822 242 71841	FILTER
1111	4822 242 70714	FILTER
1320	4822 157 53897	FILTER
1330	4822 320 40189	DELAY
1352	4822 242 70626	CRYST.
1500	4822 253 10072	FUSE 2
1530	4822 253 10099	FUSE 1
1600	4822 253 30025	FUSE 2
1640	4822 253 10064	FUSE 4
1760	4822 242 70831	CRYST.
1801	4822 242 71417	CRYST.
1802	4822 242 71622	CRYST.
1843	4822 253 20089	FUSE 6

For Service Manuals Contact  
**MAURITRON TECHNICAL SERVICES**  
 8 Cherry Tree Rd, Chinnor  
 Oxon OX9 4QY  
 Tel: 01844-351694 Fax: 01844-352554  
 Email: enquiries@mauritron.co.uk

PRS 05336  
 T33/849

CHASSIS G90AE

A+B+C

## CHASSIS

MECHANICAL PARTS			-II-		
4822 492 63524	SPRING TS7625	2001	4822 124 41569	150μF 20%	16V
4822 492 70158	SPRING TS7502/7503/7545	2003	4822 124 41546	1μF 20%	16V
4822 256 30274	FUSE HOLDER	2004	4822 124 41546	1μF 20%	16V
4822 277 10976	MAINS SWITCH	2005	4822 124 41546	1μF 20%	16V
4822 273 30206	SWITCH SK11	2006	4822 124 41546	1μF 20%	16V
4822 404 30989	BRACKET in front of tuner	2008	4822 121 51356	180nF 10%	63V
4822 404 30991	BRACKET fixing secam/pal transc.	2009	4822 124 41596	22μF 20%	50V
4822 276 80347	FOIL KEYBOARD	2011	4822 122 31644	2,2nF 10%	63V
		2013	4822 124 41546	1μF 20%	16V
		2021	4822 122 32442	10nF 50V	
		2022	4822 124 41546	1μF 20%	16V
		2023	4822 122 32442	10nF 50V	
		2032	4822 122 31783	2700pF 10%	50V
		2033	4822 122 32863	22nF 80%	50V
		2043	4822 122 30043	10nF 80%	100V
		2054	4822 122 31797	22nF 10%	63V
		2055	5322 122 31647	1nF 10%	50V
		2056	4822 122 32862	10nF 80%	50V
		2057	4822 121 51356	180nF 10%	63V
		2070	4822 124 41569	150μF 20%	16V
		2114	4822 122 32863	22nF 80%	50V
		2115	4822 122 33104	100nF 10%	63V
		2116	4822 122 32082	4,7pF 5%	50V
		2267	4822 122 32566	3,9nF 10%	63V
		2268	4822 122 32183	56nF 10%	50V
		2269	4822 124 41644	470nF 20%	50V
		2270	4822 122 33104	100nF 10%	63V
		2271	4822 124 20722	1μF 50%	63V
		2272	4822 124 41532	4,7μF 20%	50V
		2273	4822 122 32862	10nF 80%	50V
		2274	5322 121 42578	100nF 5%	100V
		2276	4822 122 32862	10nF 80%	50V
		2277	4822 124 41387	470μF 20%	25V
		2278	4822 122 32863	22nF 80%	50V
		2279	4822 124 41506	47μF 20%	16V
		2290	4822 124 41387	470μF 20%	25V
		2315	4822 122 31765	100pF 5%	50V
		2316	4822 122 10167	22nF 30%	25V
		2321	4822 122 33104	100nF 10%	63V
		2323	4822 122 32863	22nF 80%	50V
		2324	4822 124 40248	10μF 20%	63V
		2325	4822 122 31797	22nF 10%	63V
		2326	4822 124 40804	220μF 20%	63V
		2327	4822 122 31797	22nF 10%	63V
		2330	4822 122 32862	10nF 80%	50V
		2332	4822 122 32482	22pF 5%	63V
		2334	4822 122 32862	10nF 80%	50V
		2345	4822 124 41585	2,2μF 20%	50V
		2346	4822 121 42408	220nF 5%	63V
		2348	4822 121 51115	270nF 10%	63V
		2349	4822 122 31797	22nF 10%	63V
		2352	4822 125 50045	20pF TRIMMER	
		2353	4822 121 41672	100nF 10%	100V
		2354	4822 121 41672	100nF 10%	100V
		2355	4822 121 41672	100nF 10%	100V
		2358	4822 124 41532	4,7μF 20%	50V
		2359	4822 122 33104	100nF 10%	63V
		2360	4822 122 33104	100nF 10%	63V
		2361	4822 122 31772	47pF 5%	50V
		2362	4822 122 31772	47pF 5%	50V
		2363	4822 122 31772	47pF 5%	50V
		2369	4822 124 22803	330μF 20%	16V
		2370	4822 124 41545	220μF 20%	16V
		2451	4822 122 32893	100nF 80%	50V
		2452	5322 122 31844	330pF 10%	63V

## ← BOARD

A1	4822 265 40596	2P MAINS
A2	4822 265 30389	2P DEGAUSSING
A3	4822 265 30378	4P
A4	4822 264 40207	3P
A5	4822 265 40421	6P
M1	4822 265 30351	5P
M6	4822 267 50823	7P FOIL
M8	4822 417 50217	4P GOLD PLATED
M9	4822 267 40648	5P GOLD PLATED
M16	4822 264 40207	3P
	4822 267 31029	CINCH
	4822 267 60188	CVBS/audio/headphone
	4822 267 60243	EUROCONNECTOR

## CABLE




A1	4822 290 60626	2P MAINS
A3/L2	4822 267 40597	4P
A4	4822 267 40582	3P
A5	4822 267 40584	6P
M1/L1	4822 267 40583	5P
M16	4822 267 40582	3P

## VARIOUS PARTS



1000	4822 210 50118	TUNER U743/600
1000	4822 210 40273	TUNER UV617
1003	4822 212 22983	INFRA RED RECEIVER
1015	4822 242 71852	FILTER OFWJ1951
1015	4822 242 70824	FILTER OFWG1956
1030	4822 153 30025	FILTER 6,0MHz
1030	4822 242 72211	FILTER 5,5MHz
1111	4822 242 71841	FILTER 6,0MHz
1111	4822 242 70714	FILTER 5,5MHz
1320	4822 157 53897	FILTER 4,43MHz
1330	4822 320 40189	DELAY LINE 64μs
1352	4822 242 70626	CRYSTAL 8,87MHz
1500	4822 253 10072	FUSE 200mA T
1530	4822 253 10099	FUSE 100mA T
1600	4822 253 30025	FUSE 2A T
1640	4822 253 10064	FUSE 400mA T
1760	4822 242 70831	CRYSTAL 4,0MHz
1801	4822 242 71417	CRYSTAL 13,875MHz
1802	4822 242 71622	CRYSTAL 6,0MHz
1843	4822 253 20089	FUSE 630mA T

-  -			-  -		
2455	4822 122 31784	4,7nF 10% 50V	2724	4822 122 31974	820pF 10% 50V
2456	4822 124 40248	10µF 20% 63V	2725	4822 122 31974	820pF 10% 50V
2458	4822 121 42937	2,7nF 1% 250V	2726	4822 122 31974	820pF 10% 50V
2459	4822 122 33104	100nF 10% 63V	2730	4822 122 31765	100pF 5% 50V
2464	4822 122 32862	10nF 80% 50V	2731	4822 122 31765	100pF 5% 50V
2465	4822 124 41545	220µF 20% 16V	2753	4822 122 32808	1,2nF 10% 50V
2466	4822 124 20726	4,7µF 50% 63V	2758	4822 122 31971	10pF 10% 50V
2467	4822 122 33104	100nF 10% 63V	2759	4822 122 32863	22nF 80% 50V
2468	4822 124 20722	1µF 50% 63V	2760	4822 122 31825	27pF 10% 50V
2469	4822 124 20698	22µF 50% 25V	2761	4822 122 31825	27pF 10% 50V
2470	4822 122 31772	47pF 5% 50V	2762	4822 124 41584	100µF 20% 10V
2471	5322 121 42661	330nF 5% 63V	2770	4822 122 31781	1500pF 10% 50V
2473	4822 121 40434	330nF 10% 100V	2778	5322 121 42661	330nF 5% 63V
2475	5322 122 31848	33nF 10% 63V	2780	5322 121 42661	330nF 5% 63V
2500	4822 122 31169	1,5nF 10% 500V	2790	4822 122 32863	22nF 80% 50V
2503	5322 122 32779	3,9nF 10% 100V	2800	4822 124 41584	100µF 20% 10V
2505	5322 121 42489	33nF 5% 100V	2801	4822 122 32862	10nF 80% 50V
2506	4822 124 40248	10µF 20% 63V	2802	4822 122 32444	33pF 5% 50V
2509	4822 124 40761	220µF 100V	2803	4822 122 32444	33pF 5% 50V
2526	4822 122 33104	100nF 10% 63V	2804	4822 122 31766	120pF 5% 50V
2531	4822 122 32482	22pF 5% 63V	2805	4822 122 31766	120pF 5% 50V
2534	4822 124 21208	4,7µF 20% 50V	2806	4822 122 32893	100nF 80% 50V
2540	5322 122 31844	330pF 10% 63V	2808	4822 122 31825	27pF 10% 50V
2542	4822 122 40112	560pF 20% 500V	2809	4822 122 32893	100nF 80% 50V
2544	4822 121 51425	180nF 10% 100V	2811	4822 124 41546	1µF 20% 16V
2545	4822 122 32771	1,5nF 10% BN 2kV	2812	4822 122 32893	100nF 80% 50V
2546	5322 121 42523	8,2nF 5% 2kV	2813	4822 122 32862	10nF 80% 50V
2547	4822 121 43137	39nF 10% 250V	2814	4822 122 31773	560pF 5% 50V
2550	4822 121 42917	470nF 5% 200V	2815	4822 122 32893	100nF 80% 50V
2560	4822 121 51385	33nF 20% 100V	2816	4822 122 32564	27pF 50V
2570	4822 124 41696	22µF 20% 250V	2817	4822 122 32504	15pF 5% 50V
2580	4822 124 40198	470µF 20% 16V	2818	5322 122 31647	1nF 10% 50V
2600	4822 124 41531	470nF 10% 250V	2819	4822 122 31727	470pF 5% 63V
2602	4822 122 32769	2,2nF 1kV	2820	4822 122 31797	22nF 10% 63V
2604	4822 122 32769	2,2nF 1kV	2821	4822 122 32142	270pF 5% 63V
2605	4822 124 41599	68µF 20% 385V	2822	4822 122 31765	100pF 5% 50V
2606	4822 122 33856	68pF 20% 400V	2823	4822 122 31965	220pF 5% 63V
2611	4822 122 31766	120pF 5% 50V	2824	4822 122 32891	68nF 20% 50V
2614	4822 122 31767	150pF 5% 50V	2825	4822 124 41568	100µF 20% 16V
2617	5322 121 42498	680nF 5% 63V	2826	4822 122 32504	15pF 5% 50V
2620	4822 122 32891	68nF 20% 50V	2827	4822 122 32542	47nF 10% 50V
2625	4822 122 33825	2,2nF 10% 1kV	2828	4822 122 32542	47nF 10% 50V
2630	4822 124 41056	47µF 50% 200V	2829	4822 124 41506	47µF 20% 16V
2631	4822 124 41056	47µF 50% 200V	2830	4822 122 32542	47nF 10% 50V
2632	4822 122 32585	470pF 10% 500V	2832	4822 124 41585	2,2µF 20% 50V
2634	4822 122 33824	2,2nF 10% 1kV	2833	4822 124 41585	2,2µF 20% 50V
2636	4822 121 41854	150nF 5% 63V	2834	4822 124 41626	10µF 20% 16V
2640	4822 124 41677	680µF 20% 25V	2835	4822 122 32893	100nF 80% 50V
2644	5322 122 32711	2,2nF 10% 500V	2836	4822 122 31766	120pF 5% 50V
2645	4822 124 41532	4,7µF 20% 50V	2837	4822 122 31839	82pF 10% 50V
2650	4822 121 42786	33 nF 2% 100V	2838	4822 122 31839	82pF 10% 50V
2655	4822 122 31797	22nF 10% 63V	2839	4822 122 31839	82pF 10% 50V
2656	4822 122 31727	470pF 5% 63V	2840	4822 122 31839	82pF 10% 50V
2660	4822 122 31218	120pF 10% 500V	2841	4822 122 31839	82pF 10% 50V
2661	4822 124 41596	22µF 20% 50V	2842	4822 122 31839	82pF 10% 50V
2670	4822 122 31218	120pF 10% 500V	2843	4822 124 41545	220µF 20% 16V
2700	5322 121 42492	100nF 10% 63V	2844	4822 122 31839	82pF 10% 50V
2702	4822 122 31971	10pF 10% 50V	2845	4822 122 31839	82pF 10% 50V
2704	4822 122 31974	820pF 10% 50V	2846	4822 122 31839	82pF 10% 50V
2705	4822 124 41546	1µF 20% 16V	2847	4822 124 41584	100µF 20% 10V
2709	4822 124 41546	1µF 20% 16V	2849	4822 124 41629	15µF 20% 50V
2714	4822 124 41546	1µF 20% 16V	2850	4822 122 10167	22nF 30% 25V
2721	4822 122 31974	820pF 10% 50V	2851	4822 124 20722	1µF 50% 63V
2722	4822 122 31974	820pF 10% 50V	2852	4822 122 10167	22nF 30% 25V
2723	4822 122 31974	820pF 10% 50V	2853	4822 122 31784	4,7nF 10% 50V

## CHASSIS




					
2854	4822 122 10167	22nF 30% 25V	3320	5322 111 90096	1k2 2% 0,125W
2856	4822 124 41546	1μF 20% 16V	3321	5322 111 90113	560Ω 2% 0,125W
2857	4822 122 32139	12pF 5% 63V	3322	4822 111 90366	620Ω 2% 0,125W
2860	4822 122 31784	4,7nF 10% 50V	3324	4822 111 90163	jumper
2876	4822 124 40248	10μF 20% 63V	3326	4822 116 52296	6k8 5% 0,5W
2877	4822 124 40248	10μF 20% 63V	3329	4822 111 90163	jumper
2878	4822 122 32863	22nF 80% 50V	3330	5322 111 90138	390Ω 2% 0,125W
2879	4822 124 41596	22μF 20% 50V	3331	5322 111 90106	330Ω 2% 0,125W
2880	4822 124 40248	10μF 20% 63V	3332	5322 111 90106	330Ω 2% 0,125W
2883	4822 122 31974	820pF 10% 50V	3333	5322 111 90096	1k2 2% 0,125W
			3334	4822 100 11481	1k POTENTIOMETER
3001	4822 111 30513	15Ω 5% 0,33W	3345	4822 116 52204	1k 5% 0,5W
3003	4822 111 90248	2k2 2% 0,125W	3348	4822 111 90358	360Ω 2% 0,125W
3004	4822 111 90248	2k2 2% 0,125W	3349	5322 111 90092	1k 2% 0,125W
3005	4822 111 90248	2k2 2% 0,125W	3351	4822 111 90163	jumper
3006	4822 111 90248	2k2 2% 0,125W	3353	4822 116 90533	360Ω 1% 0,125W
3009	5322 111 90242	180Ω 2% 0,125W	3354	4822 116 90533	360Ω 1% 0,125W
3010	4822 111 90512	24k 2% 0,125W	3355	4822 116 90533	360Ω 1% 0,125W
3011	5322 111 90118	8k2 2% 0,125W	3358	4822 111 90178	220Ω 2% 0,125W
3012	4822 100 11483	10k POTENTIOMETER	3370	4822 111 30508	10Ω 5% 0,33W
3013	5322 111 90108	39k 2% 0,125W	3450	4822 111 90163	jumper
3014	5322 111 90092	1k 2% 0,125W	3451	4822 116 52249	1k8 5% 0,5W
3015	5322 111 90111	4k7 2% 0,125W	3452	4822 111 90151	1k5 2% 0,125W
3016	4822 111 90163	jumper	3453	5322 111 90091	100Ω 2% 0,125W
3017	4822 111 90163	jumper	3454	5322 111 90113	560Ω 2% 0,125W
3023	4822 111 90162	680Ω 2% 0,125W	3455	5322 111 90111	4k7 2% 0,125W
3029	4822 111 90163	jumper	3456	4822 116 52296	6k8 5% 0,5W
3030	4822 111 90248	2k2 2% 0,125W	3457	4822 100 11483	10k POTENTIOMETER
3031	4822 111 90348	200Ω 2% 0,125W	3458	4822 116 52853	30K 1% 0,6W
3051	4822 111 90249	10k 2% 0,125W	3459	4822 116 81159	3M 5% 0,5W
3052	4822 111 90249	10k 2% 0,125W	3460	4822 111 90349	20k 2% 0,125W
3053	4822 111 90572	5k6 2% 0,125W	3461	4822 101 10963	47k POTENTIOMETER
3054	5322 111 90092	1k 2% 0,125W	3462	5322 111 90267	33k 2% 0,125W
3055	4822 111 90214	100k 2% 0,125W	3463	4822 111 90196	15k 2% 0,125W
3057	4822 111 90543	47k 2% 0,125W	3465	4822 116 52204	1k 5% 0,5W
3058	4822 116 52283	4k7 5% 0,5W	3466	4822 111 90151	1k5 2% 0,125W
3070	4822 111 30513	15Ω 5% 0,33W	3468	4822 111 90544	6k8 2% 0,125W
3071	4822 111 90163	jumper	3469	4822 111 90186	22Ω 2% 0,125W
3085	5322 111 90092	1k 2% 0,125W	3470	4822 116 52269	3k3 5% 0,5W
3086	4822 111 90543	47k 2% 0,125W	3471	4822 111 90197	220k 2% 0,125W
3087	5322 111 90111	4k7 2% 0,125W	3473	4822 111 90302	270k 2% 0,125W
3088	5322 111 90111	4k7 2% 0,125W	3475	4822 111 90151	1k5 2% 0,125W
3090	4822 111 90185	2M2 5% 0,125W	3481	4822 111 90163	jumper
3091	4822 111 90214	100k 2% 0,125W	3500	5322 111 90091	100Ω 2% 0,125W
3092	4822 111 90205	820k 2% 0,125W	3501	4822 116 52222	390Ω 5% 0,5W
3093	4822 111 90169	560k 2% 0,125W	3502	4822 116 80842	18k 5% 2W
3094	4822 111 90249	10k 2% 0,125W	3503	4822 116 51789	22Ω 5% 0,5W
3111	4822 116 52428	560Ω 5% 0,5W	3504	5322 111 90092	1k 2% 0,125W
3113	5322 111 90113	560Ω 2% 0,125W	3505	5322 116 54748	1k2 5% 1,6W
3269	5322 111 90138	390Ω 2% 0,125W	3506	4822 111 90569	2k7 2% 0,125W
3270	4822 111 90196	15k 2% 0,125W	3507	4822 116 51789	22Ω 5% 0,5W
3271	4822 111 90196	15k 2% 0,125W	3508	4822 116 52261	24k 5% 0,5W
3272	4822 111 90302	270k 2% 0,125W	3509	4822 111 90349	20k 2% 0,125W
3273	4822 111 90163	jumper	3510	4822 101 10818	100Ω POTENTIOMETER
3274	5322 111 90104	2Ω 5% 0,125W	3511	4822 116 81155	3Ω9 5% 0,5W
3275	4822 116 52183	16Ω 5% 0,5W	3512	4822 111 90253	12k 2% 0,125W
3276	4822 116 52183	16Ω 5% 0,5W	3513	4822 111 90348	200Ω 2% 0,125W
3278	4822 111 90151	1k5 2% 0,125W	3515	4822 111 90571	3k9 2% 0,125W
3279	4822 111 90238	18k 2% 0,125W	3516	4822 111 90544	6k8 2% 0,125W
3315	4822 116 52253	2k 5% 0,5W	3518	4822 111 90253	12k 2% 0,125W
3318	4822 111 90163	jumper	3520	4822 116 52234	100k 5% 0,5W
3319	4822 111 90163	jumper	3525	4822 100 11482	6k8 30% 0,1W
			3527	4822 111 90251	22k 2% 0,125W
			3534	4822 111 30506	8Ω 5% 0,33W
			3535	4822 111 90162	680Ω 2% 0,125W

## CHASSIS





							
3540	4822 116 52199	68Ω	5%	0,5W	3672	5322 111 90111	4k7 2% 0,125W
3541	4822 111 90544	6k8	2%	0,125W	3673	5322 111 90092	1k 2% 0,125W
3542	4822 111 90572	5k6	2%	0,125W	3681	4822 111 90163	jumper
3544	4822 116 81158	5k6	5%	2W	3700	4822 116 52233	10k 5% 0,5W
3545	4822 111 90203	68Ω	2%	0,125W	3701	5322 111 90111	4k7 2% 0,125W
3554	4822 116 80342	1k	5%	0,5W	3703	4822 111 90163	jumper
3555	4822 116 52251	18k	5%	0,5W	3705	4822 111 90571	3k9 2% 0,125W
3556	4822 116 53717	430k	5%	0,25W	3706	4822 111 90253	12k 2% 0,125W
3557	4822 111 90163	jumper			3707	4822 116 52204	1k 5% 0,5W
3560	4822 116 52458	15k	5%	0,5W	3708	4822 111 90544	6k8 2% 0,125W
3561	4822 116 52472	47k	5%	0,5W	3709	4822 111 90569	2k7 2% 0,125W
3570	4822 111 30506	8Ω	2%	0,33W	3710	4822 111 90509	13k 2% 0,125W
3580	4822 111 30483	1Ω	5%	0,33W	3711	4822 116 52249	1k8 5% 0,5W
3581	4822 111 30483	1Ω	5%	0,33W	3712	5322 111 90118	8k2 2% 0,125W
3582	4822 116 81154	2Ω	5%	0,5W	3713	4822 116 52283	4k7 5% 0,5W
3601	4822 116 40137				3714	4822 111 90198	3k 2% 0,125W
3604	4822 110 42214	10M	5%	0,5W	3715	4822 111 90196	15k 2% 0,125W
3609	4822 116 52464	24k	5%	0,5W	3716	4822 116 52259	2k4 5% 0,5W
3610	4822 116 81178	24k	5%	2W	3717	4822 111 90249	10k 2% 0,125W
3611	5322 111 90111	4k7	2%	0,125W	3724	4822 111 90163	jumper
3613	4822 111 90214	100k	2%	0,125W	3730	4822 111 90156	300Ω 2% 0,125W
3614	4822 116 52275	360k	5%	0,5W	3731	4822 116 52304	82k 5% 0,5W
3615	5322 111 90109	470Ω	2%	0,125W	3732	4822 116 52263	2k7 5% 0,5W
3616	5322 111 90091	100Ω	2%	0,125W	3733	5322 111 90092	1k 2% 0,125W
3617	4822 116 81157	220Ω	5%	2W	3735	4822 116 52204	1k 5% 0,5W
3618	4822 111 90565	180k	2%	0,125W	3742	4822 116 52249	1k8 5% 0,5W
3619	4822 111 90163	jumper			3743	4822 111 90163	jumper
3620	4822 111 90565	180k	2%	0,125W	3750	4822 111 90163	jumper
3621	4822 116 81156	220Ω	5%	2W	3753	4822 111 90253	12k 2% 0,125W
3622	4822 116 81156	220Ω	5%	2W	3756	4822 111 90575	82k 2% 0,125W
3623	4822 111 90357	33Ω	2%	0,125W	3757	4822 111 90171	820Ω 2% 0,125W
3625	4822 116 81179	36Ω	5%	2W	3758	4822 111 90163	jumper
3627	4822 116 81179	36Ω	5%	2W	3759	4822 111 90163	jumper
3632	4822 111 90196	15k	2%	0,125W	3760	4822 111 90249	10k 2% 0,125W
3633	4822 111 90238	18k	2%	0,125W	3762	4822 111 90163	jumper
3634	4822 111 90165	2k	2%	0,125W	3763	4822 111 90163	jumper
3635	4822 100 11481	1k	30%	0,1W	3764	4822 111 90163	jumper
3636	5322 111 90109	470Ω	2%	0,125W	3765	4822 111 90163	jumper
3640	4822 111 90163	jumper			3766	5322 111 90111	4k7 2% 0,125W
3644	4822 111 30483	1Ω	5%	0,33W	3767	4822 111 90249	10k 2% 0,125W
3645	4822 111 90163	jumper			3768	5322 111 90111	4k7 2% 0,125W
3647	4822 116 52764	1k5	1%	0,4W	3769	5322 111 90111	4k7 2% 0,125W
3649	4822 111 90357	33Ω	2%	0,125W	3770	4822 116 52283	4k7 5% 0,5W
3650	5322 111 90265	1k6	2%	0,125W	3771	4822 111 90512	24k 2% 0,125W
3651	4822 111 90163	jumper			3772	4822 111 90157	3k3 2% 0,125W
3652	5322 111 90091	100Ω	2%	0,125W	3773	4822 116 52283	4k7 5% 0,5W
3653	5322 111 90306	750Ω	2%	0,125W	3774	4822 116 52283	4k7 5% 0,5W
3654	4822 111 90163	jumper			3775	4822 111 90249	10k 2% 0,125W
3655	5322 111 90091	100Ω	2%	0,125W	3776	4822 111 90197	220k 2% 0,125W
3656	4822 111 90162	680Ω	2%	0,125W	3777	4822 111 90157	3k3 2% 0,125W
3657	4822 116 81003	220Ω	5%	2W	3778	4822 111 90196	15k 2% 0,125W
3658	5322 111 90091	100Ω	2%	0,125W	3779	4822 111 90249	10k 2% 0,125W
3659	5322 111 90111	4k7	2%	0,125W	3780	4822 111 90249	10k 2% 0,125W
3660	5322 111 90091	100Ω	2%	0,125W	3782	4822 111 90362	430Ω 2% 0,125W
3661	4822 116 52219	330Ω	5%	0,5W	3783	4822 111 90163	jumper
3662	4822 111 90154	270Ω	2%	0,125W	3785	4822 111 90163	jumper
3663	4822 111 90163	jumper			3790	4822 111 90163	jumper
3664	4822 111 30506	8Ω	2%	0,33W	3791	5322 111 90096	1k2 2% 0,125W
3665	4822 111 90249	10k	2%	0,125W	3792	4822 111 90163	jumper
3666	4822 111 90238	18k	2%	0,125W	3793	4822 111 90157	3k3 2% 0,125W
3667	5322 111 90098	150Ω	2%	0,125W	3794	4822 111 90157	3k3 2% 0,125W
3668	5322 111 90098	150Ω	2%	0,125W	3800	4822 111 90249	10k 2% 0,125W
3669	4822 111 90178	220Ω	2%	0,125W	3801	5322 111 90094	1M 5% 0,125W
3670	4822 111 90196	15k	2%	0,125W	3802	5322 111 90091	100Ω 2% 0,125W
3671	5322 111 90109	470Ω	2%	0,125W	3803	5322 111 90091	100Ω 2% 0,125W

## CHASSIS








For Service Manuals Contact  
**MAURITRON TECHNICAL SERVICES**  
 8 Cherry Tree Rd, Chinnor  
 Oxon OX9 4QY  
 Tel: 01844-351694 Fax: 01844-352554  
 Email: enquiries@mauritron.co.uk

							
3804	4822 116 52253	2k 5%	0,5W	3878	4822 111 90249	10k 2%	0,125W
3805	5322 111 90096	1k2 2%	0,125W	3879	4822 111 90163	jumper	
3806	4822 111 90543	47k 2%	0,125W	3880	4822 111 90163	jumper	
3807	4822 111 90569	2k7 2%	0,125W	3881	5322 111 90092	1k 2%	0,125W
3808	4822 111 90249	10k 2%	0,125W	3882	4822 111 90163	jumper	
3809	4822 111 90162	680Ω 2%	0,125W	3883	5322 111 90092	1k 2%	0,125W
3810	5322 111 90267	33k 2%	0,125W	3884	4822 111 90163	jumper	
3811	4822 111 90251	22k 2%	0,125W	3885	4822 111 90163	jumper	
3812	4822 116 90534	5k6 1%	0,5W	3886	4822 111 90163	jumper	
3814	4822 116 52204	1k 5%	0,5W	3887	4822 111 90163	jumper	
3815	4822 111 90151	1k5 2%	0,125W	3888	4822 111 90163	jumper	
3816	4822 111 90202	68k 2%	0,125W	3889	4822 111 90163	jumper	
3817	5322 111 90096	1k2 2%	0,125W	3901	4822 111 90163	jumper	
3823	4822 111 90575	82k 2%	0,125W	3902	4822 111 90163	jumper	
3824	4822 116 90534	5k6 1%	0,5W	3904	4822 111 90163	jumper	
3825	4822 116 90534	5k6 1%	0,5W	3905	4822 111 90163	jumper	
3826	4822 111 30494	2Ω 5%	0,33W	3906	4822 111 90163	jumper	
3827	4822 111 90157	3k3 2%	0,125W	3907	4822 111 90163	jumper	
3828	4822 111 90124	82Ω 2%	0,125W	3908	4822 111 90163	jumper	
3829	5322 111 90098	150Ω 2%	0,125W	3909	4822 111 90163	jumper	
3830	4822 111 90371	75Ω 2%	0,125W	3910	4822 111 90163	jumper	
3831	4822 111 90162	680Ω 2%	0,125W	3912	4822 111 90163	jumper	
3832	5322 111 90092	1k 2%	0,125W	3913	4822 111 90163	jumper	
3833	5322 111 90092	1k 2%	0,125W	3914	4822 111 90163	jumper	
3834	4822 111 90162	680Ω 2%	0,125W	3916	4822 111 90163	jumper	
3835	5322 111 90113	560Ω 2%	0,125W	3917	4822 111 90163	jumper	
3836	4822 111 90543	47k 2%	0,125W				
3837	5322 111 90092	1k 2%	0,125W				
3838	4822 111 90251	22k 2%	0,125W	5020	4822 157 53892	1,5μH	
3839	5322 111 90096	1k2 2%	0,125W	5030	4822 158 10604	6,8μH	
3840	5322 111 90096	1k2 2%	0,125W	5031	4822 157 53918	12μH	
3841	5322 111 90096	1k2 2%	0,125W	5034	4822 157 53921	0,2μH	
3843	5322 111 90091	100Ω 2%	0,125W	5035	4822 157 53919	0,24μH	
3844	4822 111 90157	3k3 2%	0,125W	5115	4822 157 52809	12μH	
3845	4822 111 30526	47Ω 5%	0,33W	5315	4822 157 53939	10μH	
3846	4822 111 30526	47Ω 5%	0,33W	5330	4822 157 52808	10μH	
3847	4822 111 90178	220Ω 2%	0,125W	5331	4822 157 53063	47μF	
3848	5322 111 90113	560Ω 2%	0,125W	5452	4822 157 53123	100μH	
3849	5322 111 90092	1k 2%	0,125W	5530	4822 157 53895	390μH	
3850	4822 111 90545	6k2 2%	0,125W	5534	4822 157 52315		
3851	4822 116 80747	75Ω 5%	0,125W	5540	4822 157 53553	0,33μH	
3852	4822 111 90545	6k2 2%	0,125W	5541	4822 146 21116	TRANSFORMER DRIVER	
3853	4822 116 80747	75Ω 5%	0,125W	5545	4822 140 10306	LINE TRANSFORMER	
3854	4822 111 90249	10k 2%	0,125W	5554	4822 156 21332	LINEARITY COIL	
3855	4822 116 80747	75Ω 5%	0,125W	5580	4822 158 10563	82μH	
3856	4822 111 90214	100k 2%	0,125W	5600	4822 212 22978	MAINS FILTER	
3857	4822 111 90251	22k 2%	0,125W	5619	4822 157 53894	5,6μH	
3858	4822 116 80747	75Ω 5%	0,125W	5621	4822 157 53896	220μH	
3859	5322 111 90099	150k 2%	0,125W	5625	4822 146 21399	S.O.P.S. TRANSFORMER	
3860	5322 111 90099	150k 2%	0,125W	5631	4822 158 10551	27μH	
3861	5322 111 90111	4k7 2%	0,125W	5632	4822 157 53893	3,3μH	
3862	5322 111 90092	1k 2%	0,125W	5633	4822 157 53893	3,3μH	
3863	4822 111 90249	10k 2%	0,125W	5634	4822 157 53542	1μH	
3864	4822 111 90249	10k 2%	0,125W	5701	4822 157 52843	56μH	
3865	4822 111 90249	10k 2%	0,125W	5790	4822 157 53139	4,7μH	
3866	4822 111 90249	10k 2%	0,125W	5800	4822 157 53939	10μH	
3867	4822 116 52233	10k 5%	0,5W	5803	4822 157 53963	RESONATOR 6,5MHz	
3868	4822 111 90124	82Ω 2%	0,125W	5814	4822 157 53939	10μH	
3869	4822 111 90165	2k 2%	0,125W	5816	4822 157 53066	15μH	
3871	4822 116 52215	220Ω 5%	0,5W	5834	4822 157 53891	27μH	
3872	4822 111 90545	6k2 2%	0,125W	5847	4822 157 53893	3,3μH	
3873	5322 111 90091	100Ω 2%	0,125W	5857	4822 157 53123	100μH	
3875	4822 111 90203	68Ω 2%	0,125W				
3876	4822 111 90157	3k3 2%	0,125W				
3877	4822 116 80747	75Ω 5%	0,125W				

CHASSIS

					
6054	4822 130 80446	BAS32	6856	4822 130 80446	BAS32
6055	4822 130 80446	BAS32	6860	4822 130 80446	BAS32
6057	4822 130 80446	BAS32	6869	4822 130 80446	BAS32
6272	4822 130 80446	BAS32	 		
6278	4822 130 80446	BAS32			
6326	4822 130 30621	1N4148			
6455	4822 130 81227	BZV55-F5V6			
6465	4822 130 80446	BAS32			
6520	4822 130 80877	BAV103			
6521	4822 130 80877	BAV103			
6522	4822 130 80877	BAV103			
6546	4822 130 32896	BYD33M			
6547	4822 130 42489	BYD33G			
6560	4822 130 61222	BYW95C/20			
6570	4822 130 42606	BYD33J			
6580	4822 130 42489	BYD33G			
6602	4822 130 33887	GP15J-16			
6603	4822 130 33887	GP15J-16			
6604	4822 130 33887	GP15J-16			
6605	4822 130 33887	GP15J-16			
6611	4822 130 80446	BAS32			
6613	4822 130 80446	BAS32			
6614	4822 130 80446	BAS32			
6615	4822 130 80446	BAS32			
6616	4822 130 80886	BZV55-F22			
6617	5322 130 32962	BZV85-C6V2			
6621	4822 130 42488	BYD33D			
6622	4822 130 80446	BAS32			
6623	4822 130 80446	BAS32			
6624	4822 130 80446	BAS32			
6630	4822 130 61222	BYW95C/20			
6637	4822 130 34167	BZX79-F6V2			
6640	4822 130 42488	BYD33D			
6645	4822 130 42488	BYD33D			
6649	4822 130 80446	BAS32			
6653	4822 130 80446	BAS32			
6655	4822 130 81253	BZV55-F15			
6657	4822 130 81226	BZV55-F33			
6658	4822 130 81226	BZV55-F33			
6659	4822 130 81226	BZV55-F33			
6660	4822 130 42488	BYD33D			
6661	4822 130 34441	BZX79-F22			
6662	4822 130 80905	BZV55-F5V1			
6665	4822 130 81252	BZV55-F4V7			
6669	4822 130 80446	BAS32			
6670	4822 130 20245	SFOR5D43			
6724	4822 130 80446	BAS32			
6726	4822 130 80446	BAS32			
6727	4822 130 80446	BAS32			
6730	4822 130 80446	BAS32			
6733	4822 130 80446	BAS32			
6741	4822 130 80446	BAS32			
6742	4822 209 72895	TLUV5300			
6770	4822 130 30959	ZTK33B			
6807	4822 130 80446	BAS32			
6808	4822 130 80446	BAS32			
6809	4822 130 80446	BAS32			
6810	4822 130 30621	1N4148			
6811	4822 130 30621	1N4148			
6812	4822 130 30621	1N4148			
6843	4822 130 42488	BYD33D			
6848	4822 130 80905	BZV55-F5V1			
6850	4822 130 80446	BAS32			
6851	4822 130 80446	BAS32			
6852	4822 130 80446	BAS32			
6853	4822 130 80446	BAS32			
6854	4822 130 80446	BAS32			
6855	4822 130 80446	BAS32			
7020	4822 209 72746	TDA8341/N4			
7054	5322 130 41982	BC848B			
7056	5322 130 41983	BC858B			
7058	5322 130 42012	BC858			
7087	4822 130 42705	BC847			
7088	4822 130 61207	BC848			
7220	4822 209 60103	TDA8191			
7350	4822 209 71518	TDA3561A/N8			
7455	5322 130 42012	BC858			
7470	4822 209 72363	TDA2579/N6			
7471	5322 130 42136	BC848C			
7502	4822 130 42681	BD939F			
7503	4822 130 42681	BD939F			
7530	5322 130 42136	BC848C			
7533	4822 130 44283	BC636			
7540	4822 130 41782	BF422			
7545	4822 130 42679	BUT11AF			
7612	5322 130 42136	BC848C			
7614	4822 130 80891	CNX83			
7615	4822 130 42513	BC858C			
7616	5322 130 44349	BC635			
7625	4822 130 42679	BUT11AF			
7637	5322 130 42136	BC848C			
7652	4822 130 42231	BC557C			
7653	5322 130 42012	BC858A			
7654	5322 130 42755	BC847C			
7655	4822 130 42705	BC847			
7656	4822 130 61233	BC857			
7661	4822 130 40823	BD135			
7663	5322 130 42012	BC858			
7671	4822 130 61207	BC848			
7720	4822 209 60104	TMP47C434N-3555			
7730	4822 130 61207	BC848			
7754	4822 130 61207	BC848			
7757	4822 130 61207	BC848			
7767	4822 130 61207	BC848			
7770	4822 209 73313	X2402			
7776	4822 209 73852	PMBT2369			
7790	4822 209 10892	LA7910			
7800	4822 209 72355	MAB8461P/W107			
7801	4822 130 61207	BC848			
7802	4822 130 61207	BC848			
7803	4822 130 61207	BC848			
7804	4822 130 61207	BC848			
7810	4822 209 72359	UPD4364C-20L			
7811	4822 130 61207	BC848			
7812	4822 130 61207	BC848			
7820	4822 209 73879	SAA5243P/E			
7830	4822 209 72972	SAA5231/V6			
7831	4822 130 60513	BC859			
7832	5322 130 41982	BC848B			
7846	5322 130 44921	BD943			
7849	5322 130 42012	BC858			
7855	4822 130 61207	BC848			
7858	5322 130 41982	BC848B			
7861	4822 130 61207	BC848			
7865	5322 130 42012	BC858			
7869	4822 209 73852	PMBT2369			
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7880	4822 209 83119	TDA5850			
7881	4822 130 61207	BC848			

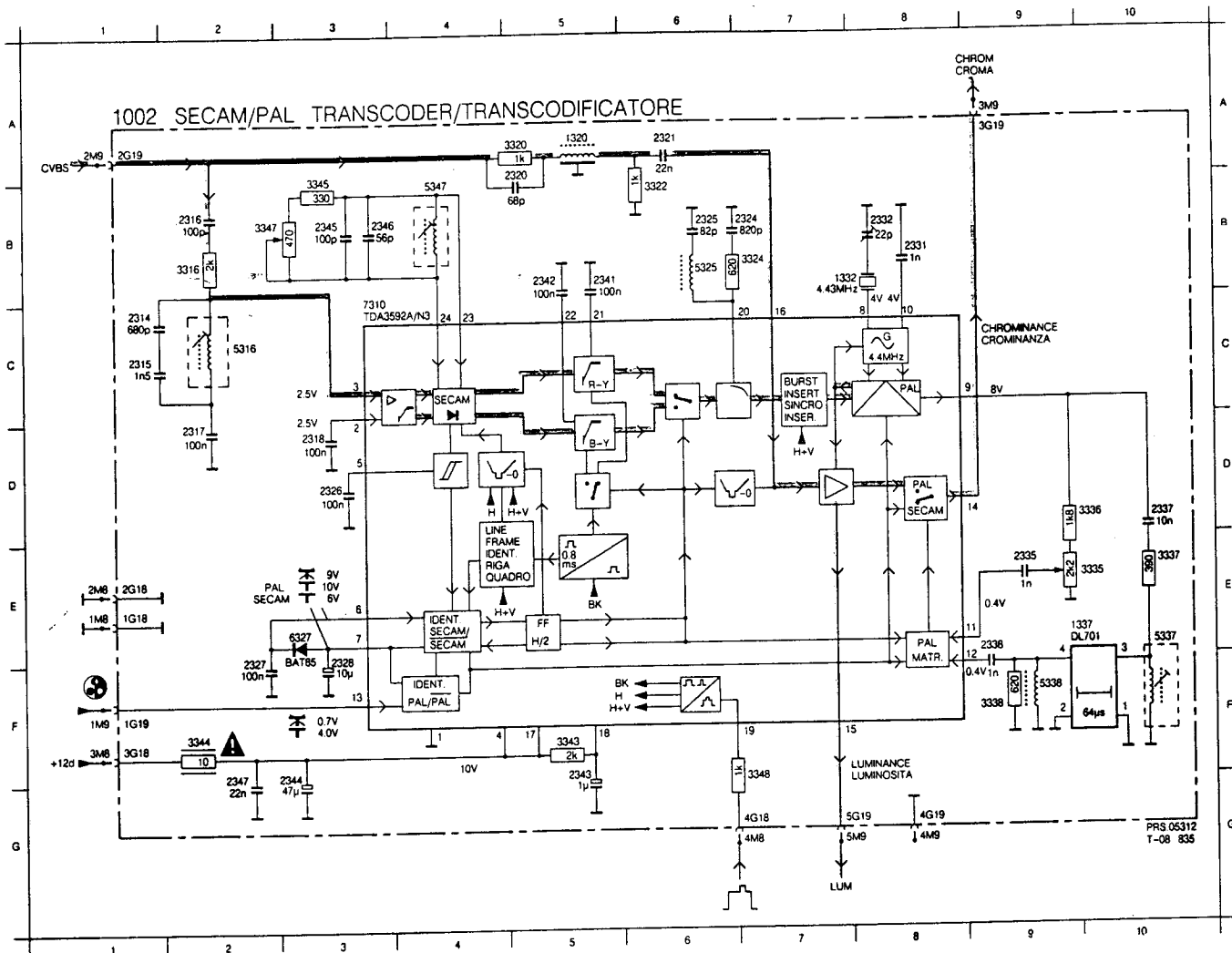
## CRT PANEL

					
L1	4822 265 30351	5P	3420	4822 111 90186	22Ω 2% 0,125W
L2	4822 265 30378	4P	3421	4822 111 90336	1k1 2% 0,125W
	4822 267 30778	PICTURE TUBE SOCKET	3422	4822 100 20148	1k POTENTIOMETER
			3426	4822 116 81019	12k 5% 2W
2397	5322 121 41763	33nF 10% 630V	3429	4822 111 90366	620Ω 2% 0,125W
2410	5322 122 31844	330pF 10% 63V	3430	4822 111 90186	22Ω 2% 0,125W
2420	5322 122 31844	330pF 10% 63V	3431	4822 111 90336	1k1 2% 0,125W
2430	5322 122 31844	330pF 10% 63V	3432	4822 100 20148	1k POTENTIOMETER
			3440	4822 111 90167	4k3 2% 0,125W
3371	4822 111 90157	3k3 2% 0,125W	3441	4822 111 90336	1k1 2% 0,125W
3372	4822 111 90157	3k3 2% 0,125W	3442	5322 111 90092	1k 2% 0,125W
3374	4822 111 90157	3k3 2% 0,125W			
3377	4822 111 90151	1k5 2% 0,125W	5395	4822 157 52368	15μH
3379	5322 111 90113	560Ω 2% 0,125W			
3380	4822 100 20149	2k2 POTENTIOMETER	6406	4822 130 80446	BAS32
3384	4822 100 20149	2k2 POTENTIOMETER	6416	4822 130 80446	BAS32
3392	4822 116 52399	1k5 5% 0,5W	6426	4822 130 80446	BAS32
3393	4822 116 52399	1k5 5% 0,5W			
3394	4822 116 52399	1k5 5% 0,5W	7406	4822 130 41782	BF422
3395	4822 111 30483	1Ω 5% 0,33W	7416	4822 130 41782	BF422
3396	4822 116 52399	1k5 5% 0,5W	7426	4822 130 41782	BF422
3397	4822 116 52399	1k5 5% 0,5W	7442	5322 130 42012	BC858
3406	4822 116 81019	12k 5% 2W			
3409	4822 111 90366	620Ω 2% 0,125W			
3410	4822 111 90186	22Ω 2% 0,125W			
3411	4822 111 90336	1k1 2% 0,125W			
3412	4822 100 20148	1k POTENTIOMETER			
3416	4822 116 81019	12k 5% 2W			
3419	4822 111 90366	620Ω 2% 0,125W			

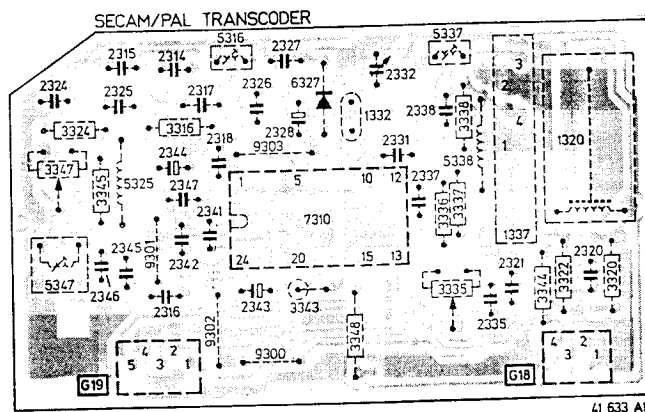
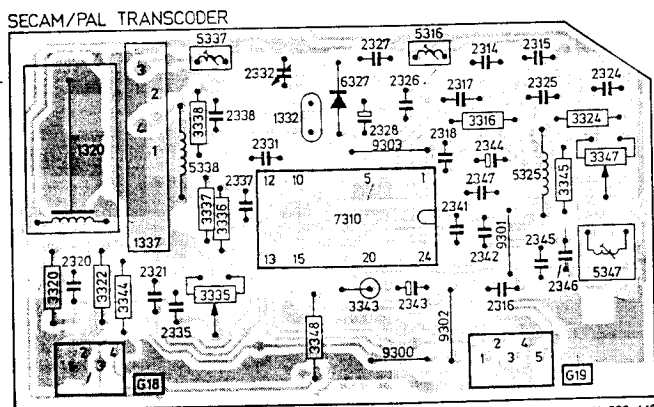
For Service Manuals Contact  
**MAURITRON TECHNICAL SERVICES**  
 8 Cherry Tree Rd, Chinnor  
 Oxon OX9 4QY  
 Tel: 01844-351694 Fax: 01844-352554  
 Email: enquiries@mauritron.co.uk



1320	A 5	2315	C 1	2320	A 5	2326	D 3	2332	B 8	2341	B 5	2345	B 3	3320	A 5	3336	D10	3344	F 2	5316	C 2	5347	B 4
1332	B 7	2316	B 2	2321	A 6	2327	E 2	2335	E 9	2342	B 5	2346	B 3	3322	B 6	3337	E10	3345	B 3	5325	B 6	6327	E 3
1337	E10	2317	D 2	2324	B 7	2328	E 3	2337	D10	2343	F 5	2347	F 2	3324	B 7	3338	F 9	3347	B 2	5337	E10	7310	C 3
2314	C 1	2318	D 3	2325	B 6	2331	B 8	2338	E 9	2344	F 3	3316	B 2	3335	E10	3343	F 5	3348	F 7	5338	F 9		



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## SECAM/PAL TRANSCODER

 BOARD

G18	4822 266 30276	4P GOLD PLATED
G19	4822 265 40503	5P GOLD PLATED

## VARIOUS PARTS

1320	4822 157 53047	DELAY COIL
1332	4822 242 70323	CRYSTAL 4,43MHz
1337	4822 320 40096	DELAY LINE 64µs

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2314	4822 121 42995	680pF 5% 100V
2315	4822 121 42994	1,5µF 5% 100V
2316	4822 122 31316	100pF 2% 100V
2317	5322 121 42386	100nF 5% 63V
2318	5322 121 42386	100nF 5% 63V
2320	5322 122 32072	33pF 2%
2321	4822 122 30103	22nF 80% 63V
2324	4822 122 30135	820pF 10% 100V
2325	4822 122 31237	82pF 2% 100V
2326	5322 121 42386	100nF 5% 63V
2327	5322 121 42386	100nF 5% 63V
2328	4822 124 40435	10µF 20% 50V
2331	4822 122 30027	1nF 10% 100V
2332	4822 125 50045	20pF TRIMMER
2335	4822 122 30027	1nF 10% 100V
2337	4822 122 30043	10nF 80% 100V
2338	4822 122 30027	1nF 10% 100V
2341	5322 121 42386	100nF 5% 63V
2342	5322 121 42386	100nF 5% 63V
2343	4822 124 40242	1µF 20% 63V
2344	4822 124 40433	47µF 20% 25V
2345	4822 122 31316	100pF 2% 100V
2346	4822 122 32151	56pF 2% 100V
2347	4822 122 30103	22nF 80% 63V



3316	4822 116 52406	2k 5% 0,5W
3320	4822 116 52391	1k 5% 0,5W
3322	4822 116 52391	1k 5% 0,5W
3324	4822 116 52429	620Ω 5% 0,5W
3335	4822 100 20149	2k2 POTENTIOMETER
3336	4822 116 52404	1k8 5% 0,5W
3337	4822 116 52421	390Ω 5% 0,5W
3338	4822 116 52429	620Ω 5% 0,5W
3343	4822 116 52406	2k 5% 0,5W
3344	4822 111 30508	10Ω 5% 0,33W
3345	4822 116 52416	330Ω 5% 0,5W
3347	4822 101 10651	470Ω POTENTIOMETER
3348	4822 116 52391	1k 5% 0,5W



5316	4822 156 10998	3µH
5325	4822 156 21125	3,9µH
5337	4822 156 21027	9,4µH
5338	4822 157 52278	12µH
5347	4822 157 53046	8µH



6327	4822 130 31983	BAT85
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7310	4822 209 11389	TDA3592A/N5
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## QUICK DIAGNOSIS SURVEY

Error message on the screen	Off time (ms) Flashing LED	Description of error component	Possible defective
F0	58	Internal RAM	IC7720
F2	174	Internal timer	IC7720
F4	290	EEPROM	IC7770
F7	464	Teletext decoder	IC7800 IC7820

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