

# SHARP

# SERVICE MANUAL

SECJDV513150H

## S 3 B 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

PAL SYSTEM COLOUR TELEVISION

# DV-5131H DV-5150H

MODELS

In the interests of user-safety (required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

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## ELECTRICAL SPECIFICATIONS

Aerial input Impedance .....	75 ohm unbalanced	Power Input .....	240 Volts AC 50 Hz
Convergence .....	Self Converging System	Power Consumption .....	75 W
Focus .....	Bipotential electrostatic	Speaker Size .....	10 cm (Round)
Audio Power Output Rating .....	4 Watt (M.P.O.)	Voice Coil Impedance .....	8 ohms
Picture IF Carrier Frequency .....	39.5 MHz	Sweep Deflection .....	Magnetic
Sound IF Carrier Frequency .....	33.5 MHz	Tuning Ranges .....	UHF: Channels 21 to 69
Colour Sub-Carrier Frequency .....	35.07 MHz (Nominal)		

Specifications are subject to change without prior notice.

### WARNING

The chassis in this receiver is partially hot. Use an isolation transformer between the line cord plug and power receptacle, when servicing this chassis.

To prevent electric shock, do not remove cover. No user — serviceable parts inside. Refer servicing to qualified service personnel.

## IMPORTANT SERVICE NOTES

Maintenance and repair of this receiver should be carried out by qualified service personnel only.

### SERVICING OF HIGH VOLTAGE SYSTEM AND PICTURE TUBE

When servicing the high voltage system, remove static charge from it by connecting a 10 k ohm resistor in series with an insulated wire (such as a test probe) between picture tube ground tag and high voltage lead (AC line cord should be disconnected from AC outlet).

1. Picture tube in this receiver employs integral implosion protection.
2. Replace with tube of the same type number for continued safety.
3. Do not lift picture tube by the neck.
4. Handle the picture tube only when wearing shatterproof goggles and after discharging the high voltage completely.

### X-RAY

This receiver is designed so that any X-Ray radiation is kept to an absolute minimum. Since certain malfunctions or servicing may produce potentially hazardous radiation with prolonged exposure at close range, the following precautions should be observed.

1. When repairing the circuit, be sure not to increase the high voltage to more than 30.0 kV (at beam 1000  $\mu$ A) for the set.
2. To keep the set in a normal operation, be sure to make it function on 23.5 kV  $\pm$  1.5 kV (at beam 1000  $\mu$ A) in the case of the set. The set has been factory adjusted to the above mentioned high voltage. If there is a possibility that the high voltage fluctuates as result of the repairs, never forget to check for such high voltage after the work.
3. Do not substitute a picture tube with unauthorized types or brands which may cause excess X-Ray radiation.

### BEFORE RETURNING THE RECEIVER

In addition to the checks necessary as a result of a repair having been carried out, the following additional safety checks should also be made before returning the units to the user.

1. Inspect all lead insulation to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the receiver.
2. Inspect all protective devices such as non-metallic control knobs, insulating fishpapers, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacity networks, mechanical insulators, etc.
3. Apply test voltage of 3000 volts between live parts and accessible metal parts for 3 seconds.

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## SERVICE ADJUSTMENTS

### IF ADJUSTMENT

#### 1. Video Detector T 202:

1. Apply a carrier frequency of 38.9 MHz to pin ⑤ of IC 201. Connect pin ⑥ of IC 201 to ground. (Use a probe as shown in fig. 1).

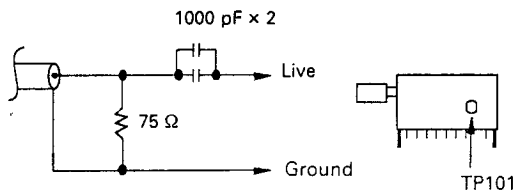


Fig. 1

2. Connect TP 208 to ground (AFT OFF).
3. Apply 4 V DC to TP 204 (Pin ② of IC 201).
4. Measure voltage at TP 203 using oscilloscope on 1 V/DIV DC range.
5. Adjust T 202 to minimum voltage.

#### Fine Adjustment:

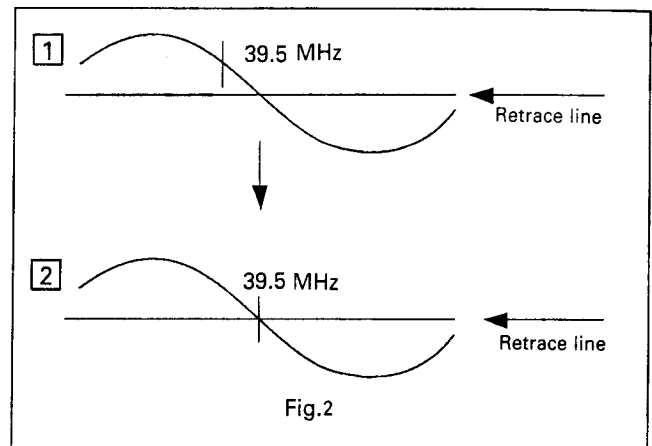
6. Increase sensitivity of oscilloscope. Repeat step 5.

#### 2. Sound Detector T 301:

1. Apply a carrier frequency of 6 MHz to pin ⑱ of IC 201. (Use a probe as shown in fig. 1).
2. Connect TP 301 to ground.
3. Using a DC voltmeter on the 10 V full-scale range, measure voltage at pin ⑩ of IC 201, should read 4.5 V DC approx.
4. Disconnect TP 301 from ground.
5. Adjust T 301 to obtain the same voltage as step 3.

#### 3. AFT T 201:

1. Connect a sweep generator to Tuner TP 101. (Use a probe as shown in fig. 1).
2. Take reading at pin ⑬ of IC 201. (See waveform in fig. 2).
3. Adjust T 201 to align 39.5 MHz marker with retrace line (see fig. 2).

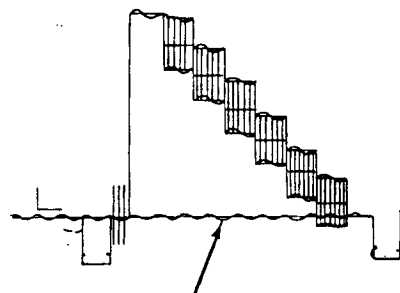


Sweep generator setting conditions.  
Marker: 39.5 MHz.  
Output level: 80 dB.

#### 4. IF Adjustment:

##### Fine adjustment of AFT:

1. Receive colour bar signal.
2. Apply an unmodulated carrier frequency of 39.5 MHz to pin ③ of Tuner (IF OUT).
4. Take reading at TP 203 using oscilloscope on 1 V/DIV DC range.
5. Adjust T 201 to zero beat (see fig. 3).



Adjust to obtain zero beat.

Fig. 3

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**5. RF-AGC R 208:**

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1. Receive colour bar signal with a level of 53 dB/ $\mu$ V (over 75  $\Omega$ ).
2. Measure voltage at Tuner pin AGC using a DC voltmeter on the 10 V full-scale range.
3. Adjust R 208 to obtain the maximum voltage.
4. Readjust R 208 to 0.1 V below maximum voltage.

**Screen Adjustment:**

---

**7. Focus:**

---

1. Apply mains voltage of 220 V AC/50 Hz to TV.
2. Receive Philips pattern signal to a level between 60 and 80 dB.
3. Set contrast to 10/10, brightness to 5/10 and colour to 0/10.
4. Adjust focus potentiometer to obtain maximum definition.

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**8. G 2:**

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1. Apply mains voltage of 220 V AC/50 Hz to TV.
2. Receive black screen signal to a level between 60 and 80 dB.
3. Set contrast to 10/10, brightness to 0/10 and colour 0/10.
4. Enter into Service Mode.
5. Push CH  $\wedge$  until GII appears.
6. Increase G2 potentiometer until flyback appears on screen, and OSD bar is at maximum.
7. Adjust G2 potentiometer until OSD bar is at half way position on screen.
8. Exit Service Mode.

**Power Supply Adjustment:**

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**9. + B R 739**

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1. Receive monoscope pattern signal.
2. Adjust contrast control to obtain a Beam Current of 0.7 mA (0.7V between TP 601 and TP 602) set volume control to minimum.
3. Measure voltage at catode of D 712 using a DC voltmeter on the 20 V full-scale range.
4. Adjust R 739 to obtain a voltage of 14 V DC  $\pm$ 0.05 V.

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### SERVICE MODE FUNCTION

This mode function is provided to assist with the settings of those adjustments that may vary from one Picture Tube to another, or between models.

#### In order to use the Service Mode

1. Connect Test Pattern signal to antenna terminal.
2. Connect a jump wire between terminals ② (GND) and ⑥ of the service slot situated in the Video Unit.
3. Press MODE button on R/C –SERV– will appear on screen.
4. Remove a jump wire of the service slot.
5. Select adjustment using buttons  $\wedge$  CH  $\vee$  .

	Displayed on Screen	Function
	–SERV–	Indicates operative Service Mode.
a.	HOR AM	Horizontal Amplitude (DON'T TOUCH).
b.	BL PHA	Blanking Phase shift.
c.	VER PO	Vertical position shift.
d.	VER AM	Vertical Amplitude shift.
e.	P-AMPL	Parabola Amplitude (DON'T TOUCH).
f.	VER SM	Vertical Symmetry alteration.
g.	LUMA-D	Luma Delay.
h.	P-TILT	Parabola Adjustment (DON'T TOUCH).
i.	G II	Indication of G2 adjustment.
j.	B-B-CO	Blanking Breathing Correction (DON'T TOUCH).
k.	GAIN R	Red Gain.
l.	GAIN G	Green Gain.
m.	GAIN B	Blue Gain.
n.	NVM	Access to NVM memory.

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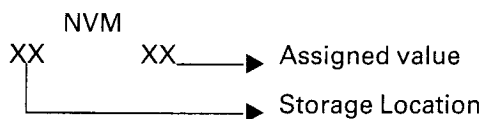
6. For "a" thru "m" Selections.

Adjustment to a selection can be made by pressing buttons  $\wedge$   $\vee$   
 A colour bar is displayed on the OSD to indicate the adjustment position.

(MINIMUM)  (MAXIMUM)

For «n» Selection.

NVM storage location settings variants



In order to have access to the desired storage location, buttons  $\wedge$   $\vee$  should be pressed, as required, to obtain a higher or lower location, respectively. Bear in mind that, for storage location indication a hexadecimal numerical system is used, instead of a decimal system.

0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E, F, 10, 11, ..... 19, 1A, 1B, 1C, 1D, 1E, 1F, 20, 21, ..... 99, 9A, 9B, 9C, 9D, 9E, 9F, A0, A1, ..... B0, ..... C0, ..... D0, ..... E0 ..... F0, F1, F2, F3, F4, F5, F6, F7, F8, F9, FA, FB, FC, FD, FE, FF.

From the last location FF to the first 00 can be reached by increasing and from first to last by decreasing. Once the storage location to be varied has been selected, its value can be modified by the bits that form part of the storage location numerical buttons, numbers  $\boxed{0}$  to  $\boxed{7}$ , respectively. This switches its binary number from and between 0 and 1 each time one of the buttons is pressed.

$$\boxed{0} = 2^0 = 1, \boxed{1} = 2^1 = 2, \boxed{2} = 2^2 = 4, \dots$$

7. The changes introduced are automatically memorized.
8. Having finalized adjustments, push MODE again to exit Service Mode.

## GEOMETRY ADJUSTMENT PROCEDURE

### 1. "BL PHA".

- Receive Philips pattern signal.
- When  $\wedge$  button is pressed, picture moves to the left.
- When  $\vee$  button is pressed, picture moves to the right.
- Adjust the horizontal location to obtain picture centering (fig. 1).

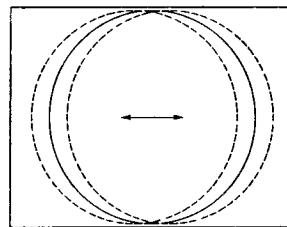


Fig. 1

### 2. "VER PO".

- Receive Philips pattern signal.
- When  $\wedge$  button is pressed, picture moves up.
- When  $\vee$  button is pressed, picture moves down.
- Adjust the horizontal location to obtain picture centering (fig. 2).

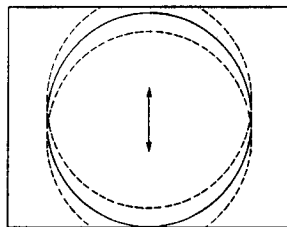


Fig. 2

### 3. "VER AM".

- Receive Philips pattern signal.
- When  $\wedge$  button is pressed, vertical size of picture increases.
- When  $\vee$  button is pressed, vertical size of picture decreases.
- Adjust the vertical size to obtain overscan (fig. 3).

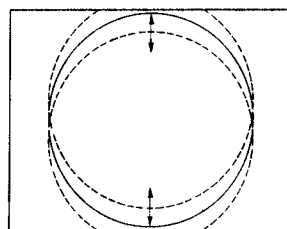


Fig. 3

### 4. "VER SM".

- Receive Philips pattern signal.
- When  $\wedge$  button is pressed, upper picture scanning decreases and lower picture scanning increases.
- When  $\vee$  button is pressed, upper picture scanning increases, and lower picture scanning decreases.
- Adjust the Vertical Symmetry to obtain symmetrical scanning between upper and lower picture (fig. 4).

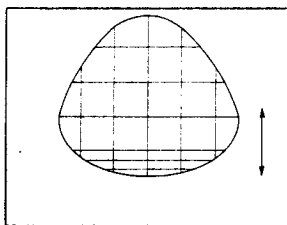


Fig. 4

## COLOUR ADJUSTMENT

### 5. "LUMA D".

- Receive Philips pattern signal.
- When  $\wedge$  button is pressed, luma phase delays.
- When  $\vee$  button is pressed, chroma phase delays.
- Adjust the Chroma-Luma delay.

**The following adjustments are only required when the Picture Tube is changed.**

### 6-8. "GAIN R", "GAIN G", "GAIN B".

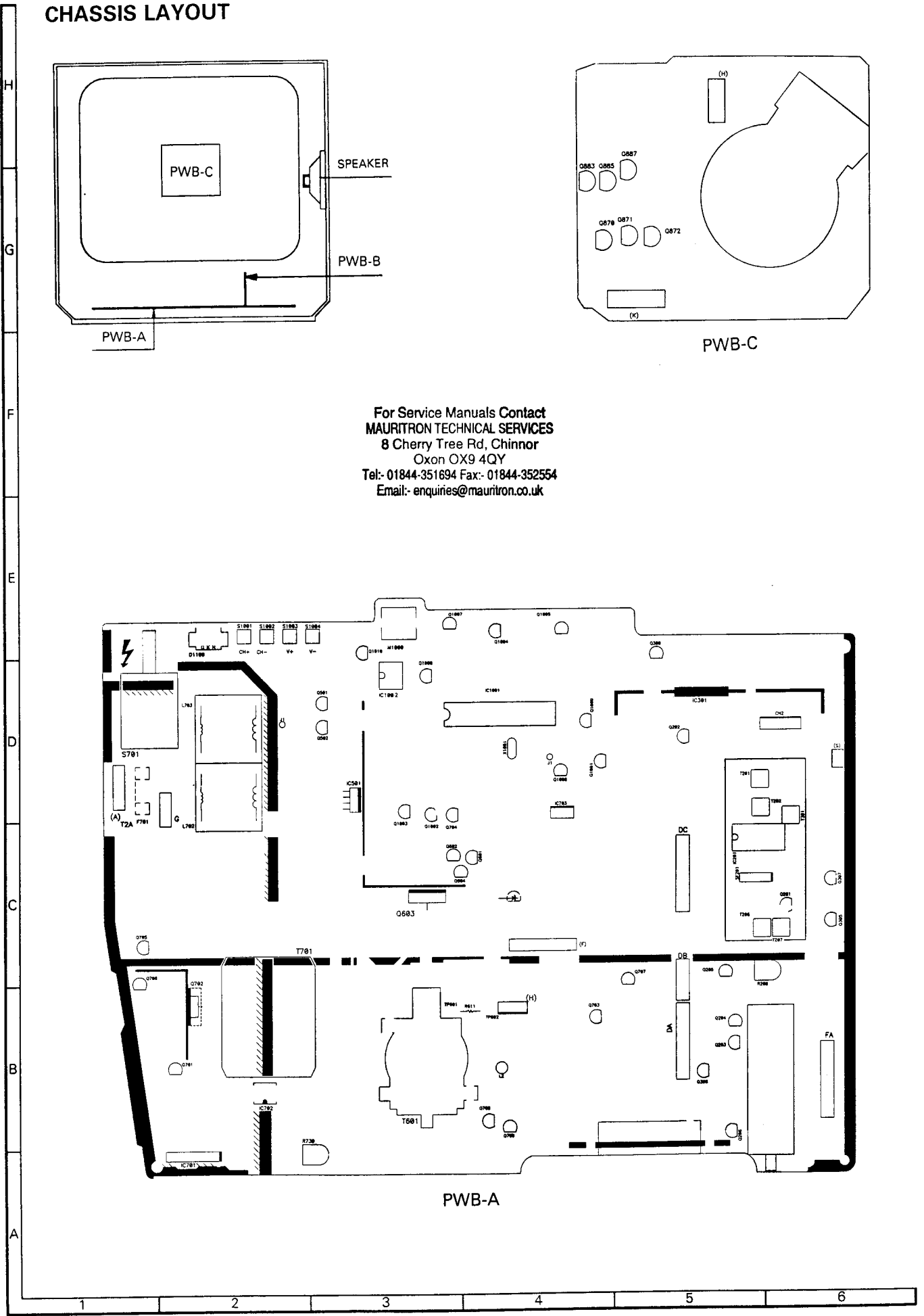
- Adjust G2.
- Tune in white card.
- Adjust colour to minimum.
- Position colourimeter in the center of screen.
- Using brightness and contrast buttons, select a luminance of  $\approx 120$  NITS.
- Operate again in Service Mode and select location GAIN R, GAIN G, GAIN B to obtain colour coordinates:
 
$$X = 0.290 \pm 0.015$$

$$Y = 0.284 \pm 0.015$$
- Exit Service Mode and check colour coordinates 'X' and 'Y' at 20 and 120 NITS. It may be necessary to repeat procedure.

#### NOTE:

Locations: GAIN R alter 'X' coordinate; GAIN G alter the 'Y' coordinates; GAIN B alter the 'X' and 'Y' coordinates.

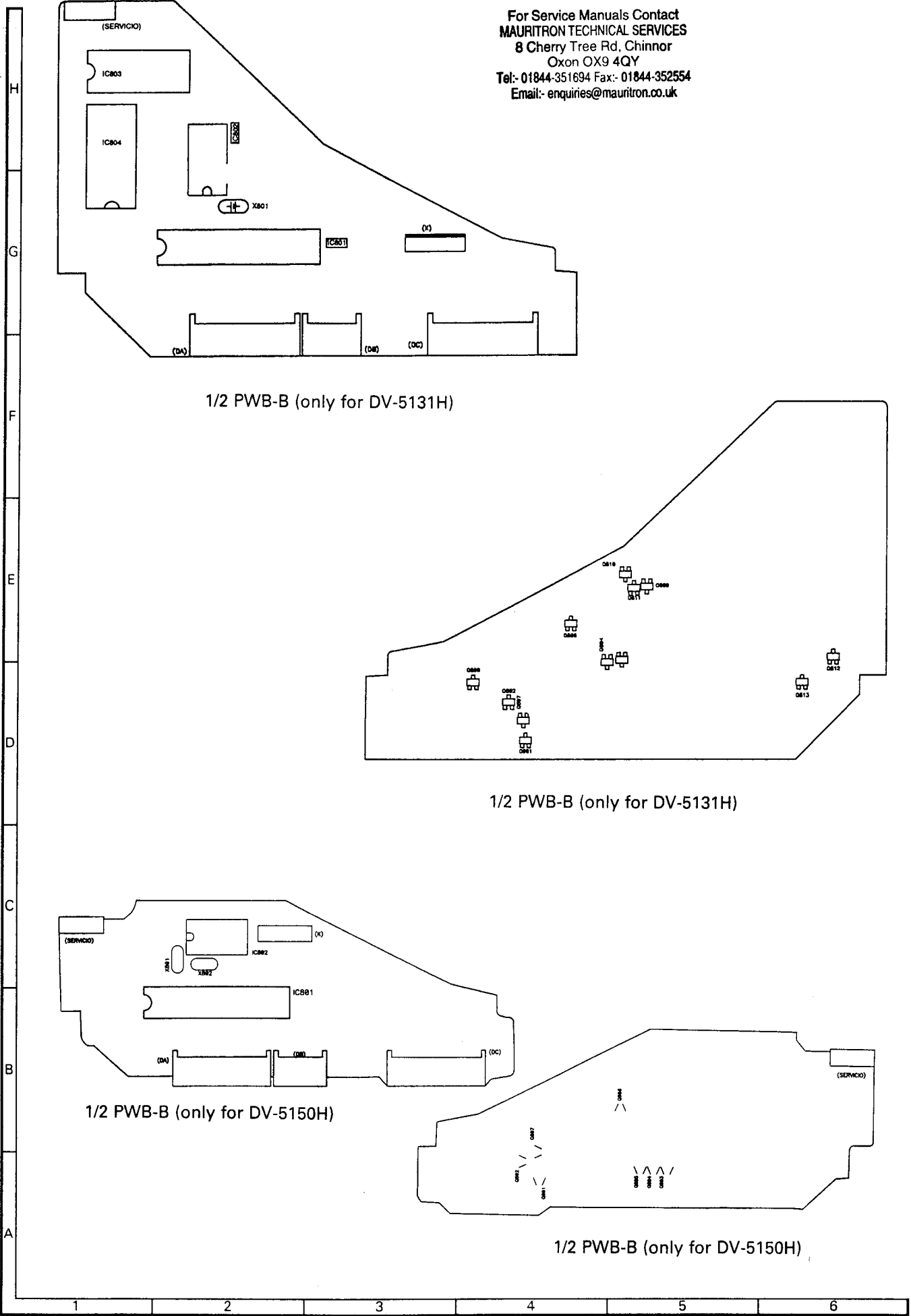
CHASSIS LAYOUT



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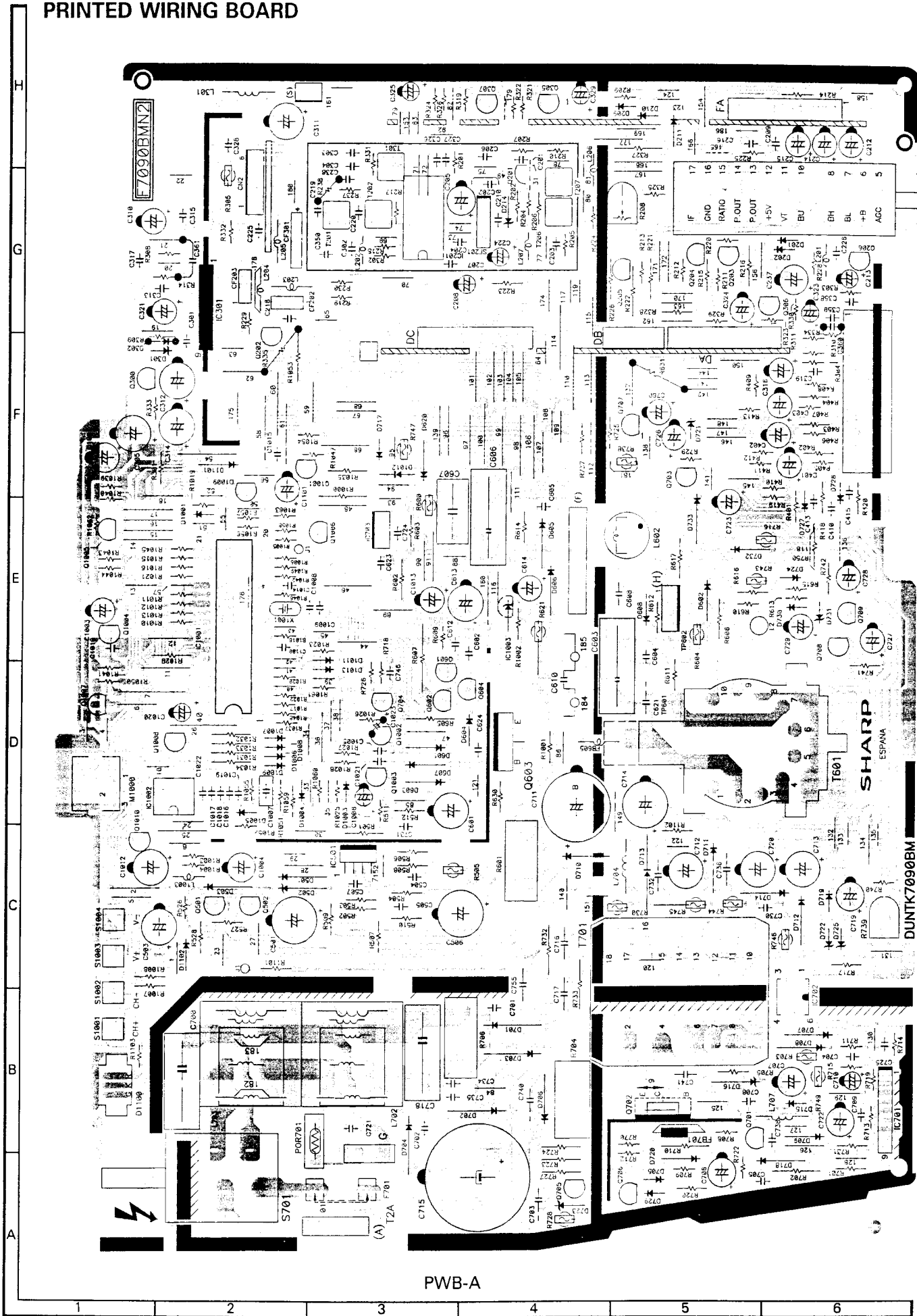
1/2 PWB-B (only for DV-5131H)

1/2 PWB-B (only for DV-5131H)

1/2 PWB-B (only for DV-5150H)

1/2 PWB-B (only for DV-5150H)

PRINTED WIRING BOARD

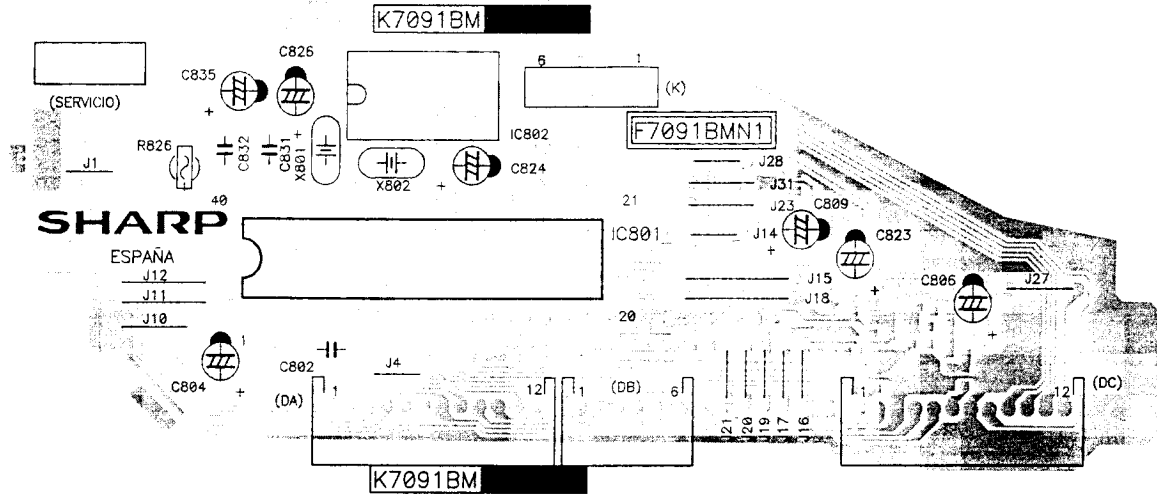


PWB-A

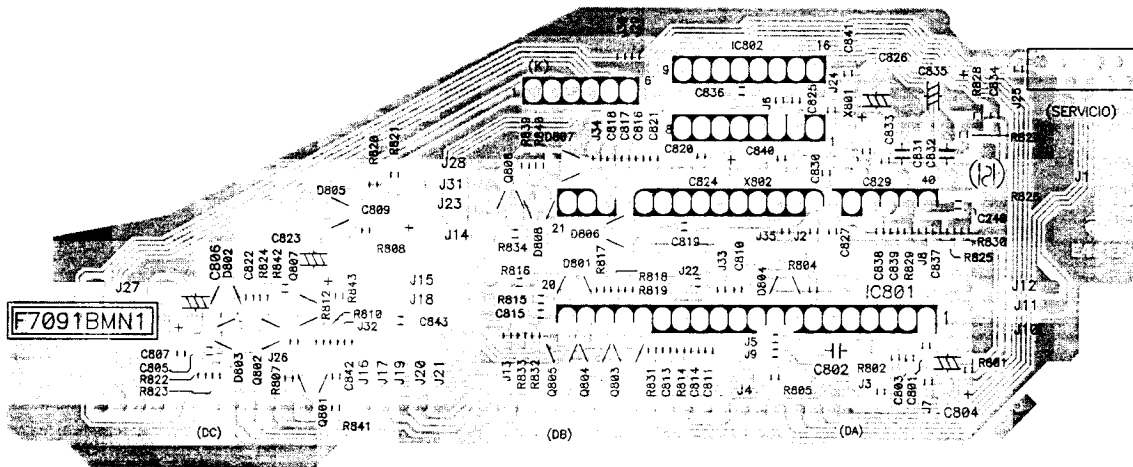
SHARP  
ESPANA

DUNTK7090BM

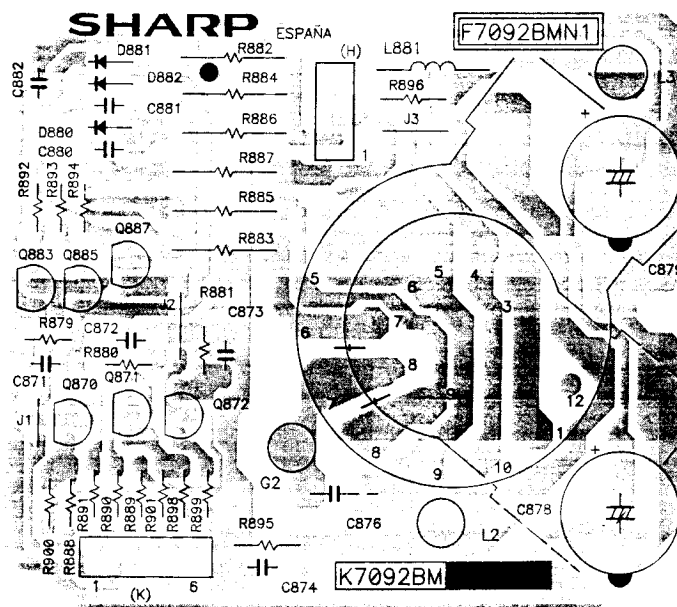
PRINTED WIRING BOARD



1/2 PWB-B (only for DV-5150H)



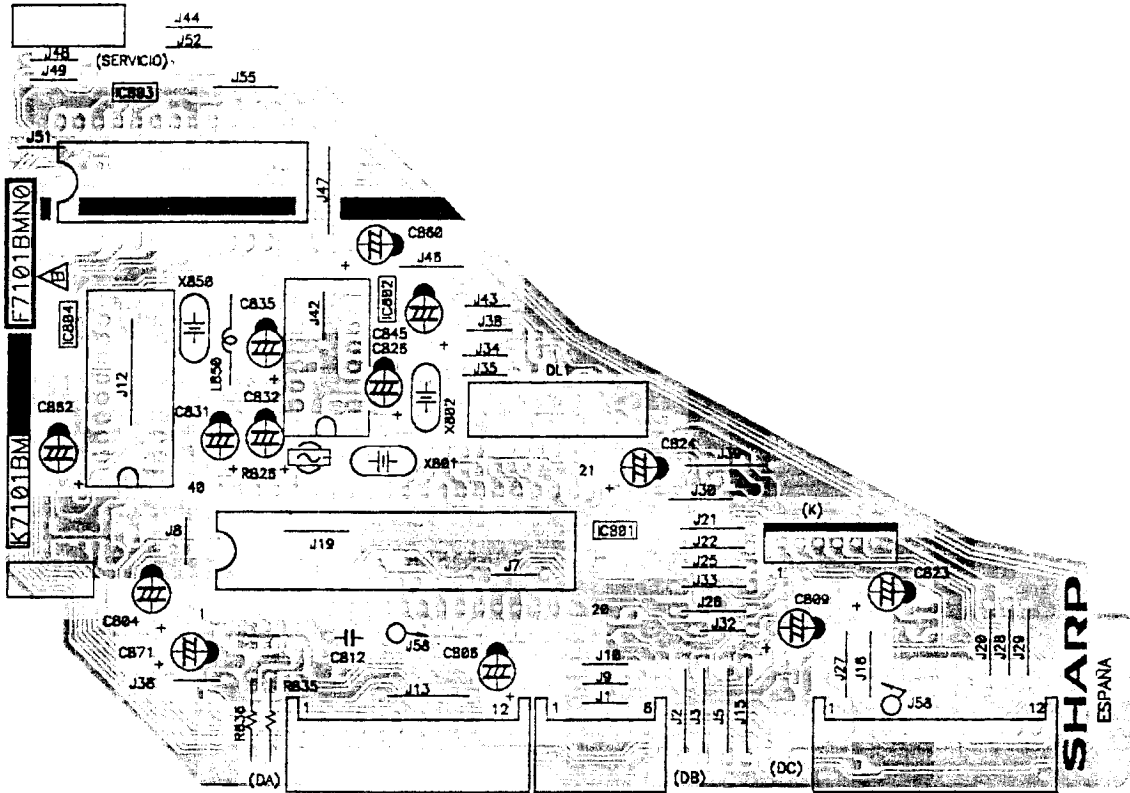
1/2 PWB-B (only for DV-5150H)



PWB-C

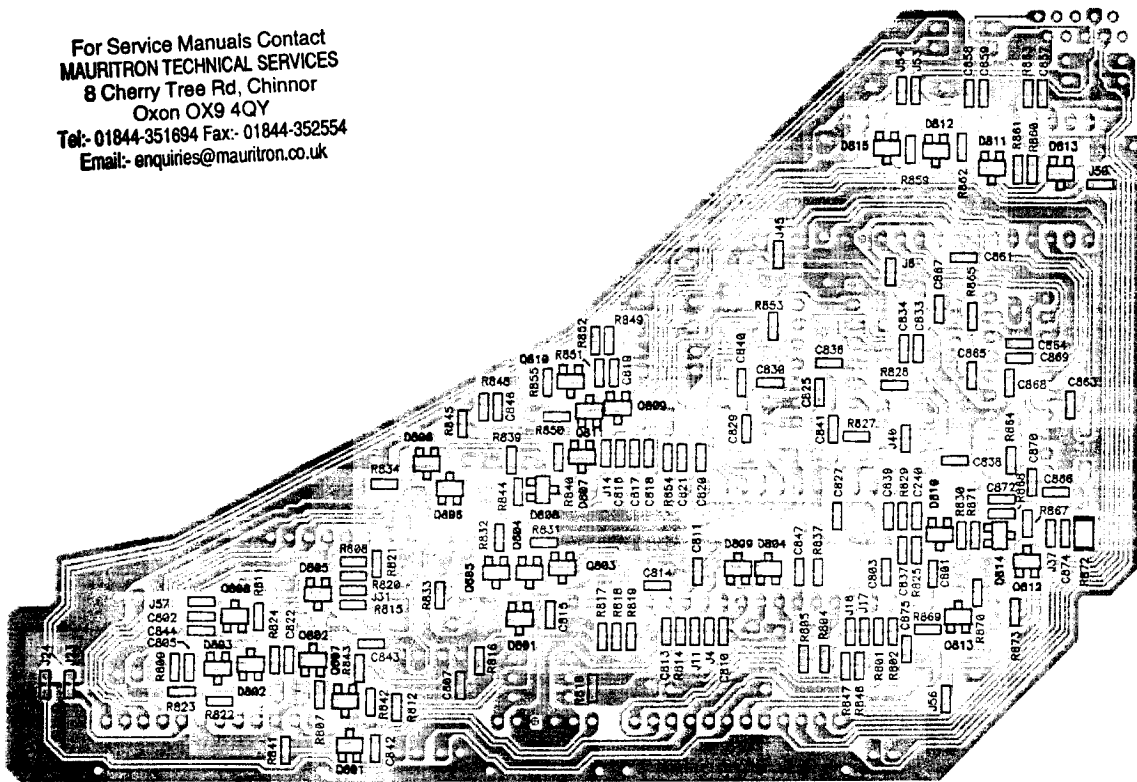
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PRINTED WIRING BOARD



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1/2 PWB-B (only for DV-5131H)

**DESCRIPTION OF SCHEMATIC DIAGRAM**

**SAFETY NOTE:**

1. DISCONNECT THE AC PLUG FROM THE AC OUTLET BEFORE REPLACING PARTS.
2. SEMICONDUCTOR HEAT SINKS SHOULD BE REGARDED AS POTENTIAL SHOCK HAZARDS WHEN THE CHASSIS IS OPERATING.

**IMPORTANT SAFETY NOTICE:**

PARTS MARKED WITH "⚠" ( ) ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

**Service precaution:**

The area enclosed by this line (---) is directly connected with AC Mains Voltage. When servicing the area connect an isolating transformer between TV receiver and AC line to eliminate hazard of electric shock.

**NOTE:**

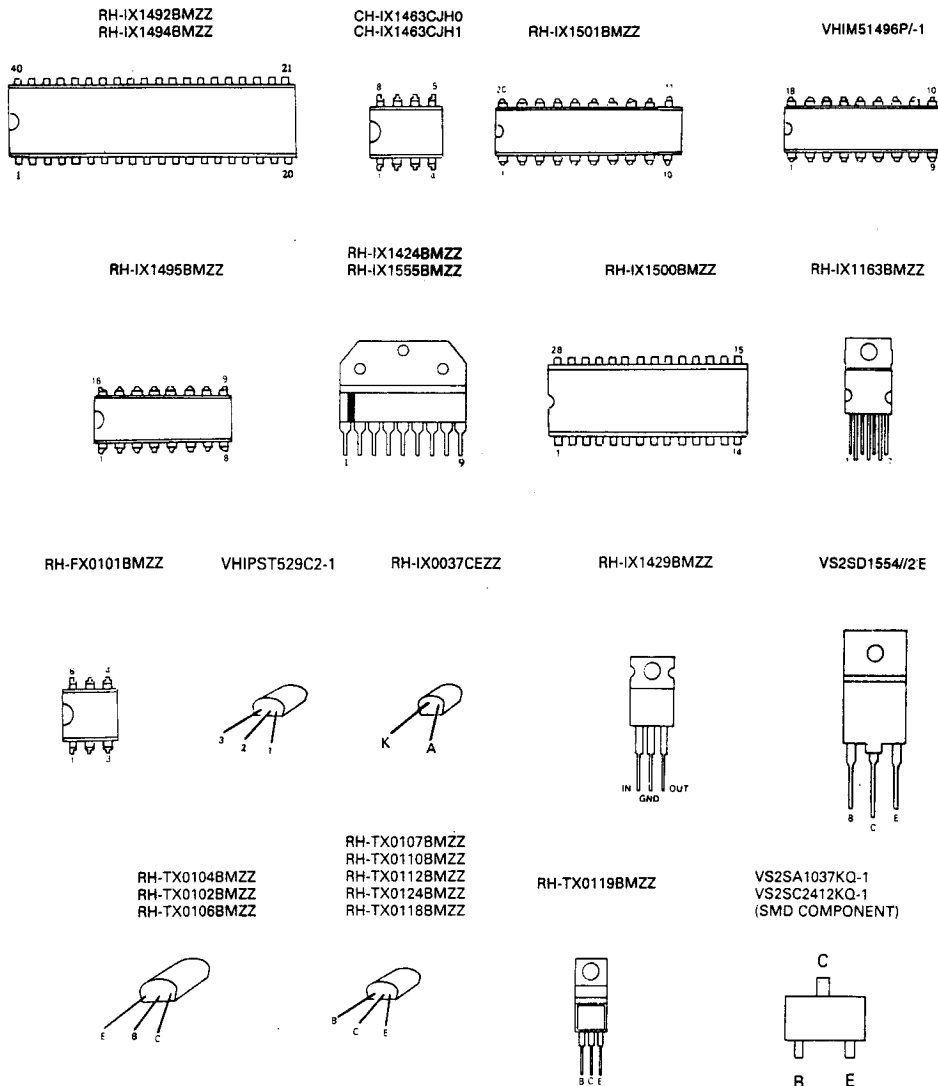
1. The unit of resistance "ohm" is omitted (k = 1000 ohms, M = Megaohm).
2. All resistors are 1/8 watt, unless otherwise noted.
3. All capacitors  $\mu\text{F}$ , unless otherwise noted ( $p = \mu\mu\text{F}$ ).

**WAVEFORM MEASUREMENT CONDITIONS**

Colour bar generator signal of 70 dB from RF input.

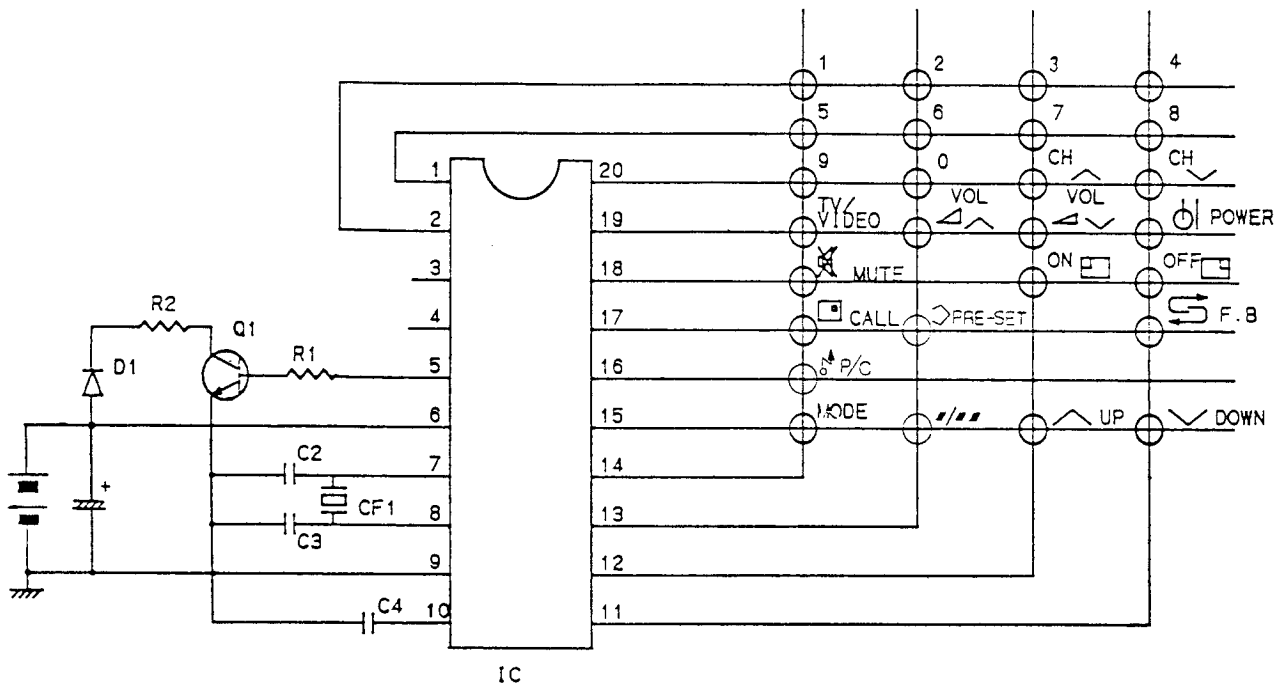
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**SOLID STATE DEVICE BASE DIAGRAM**



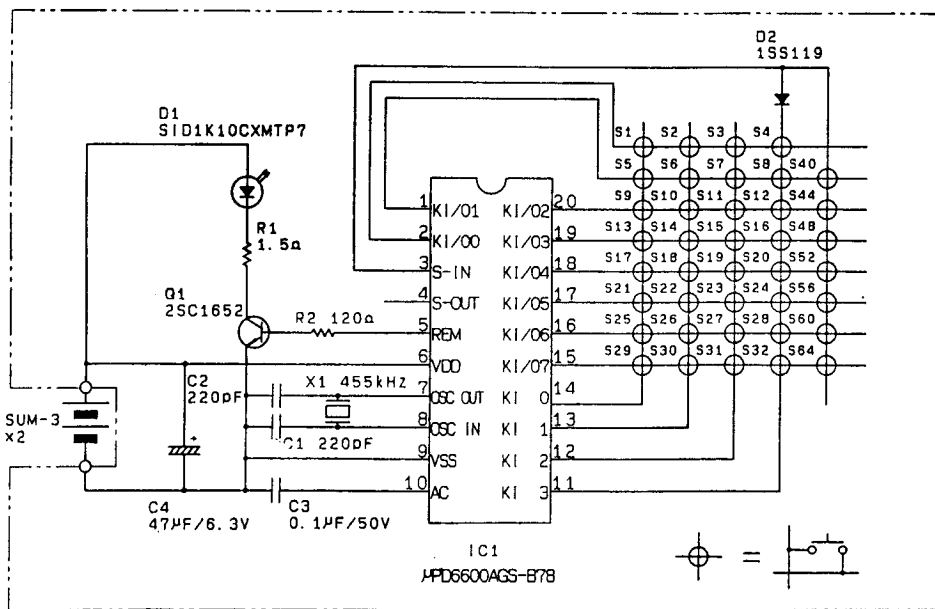
INFRARED REMOTE CONTROL UNIT SCHEMATIC DIAGRAM

**RRMCG1037BMSA** (only for DV-5150H)



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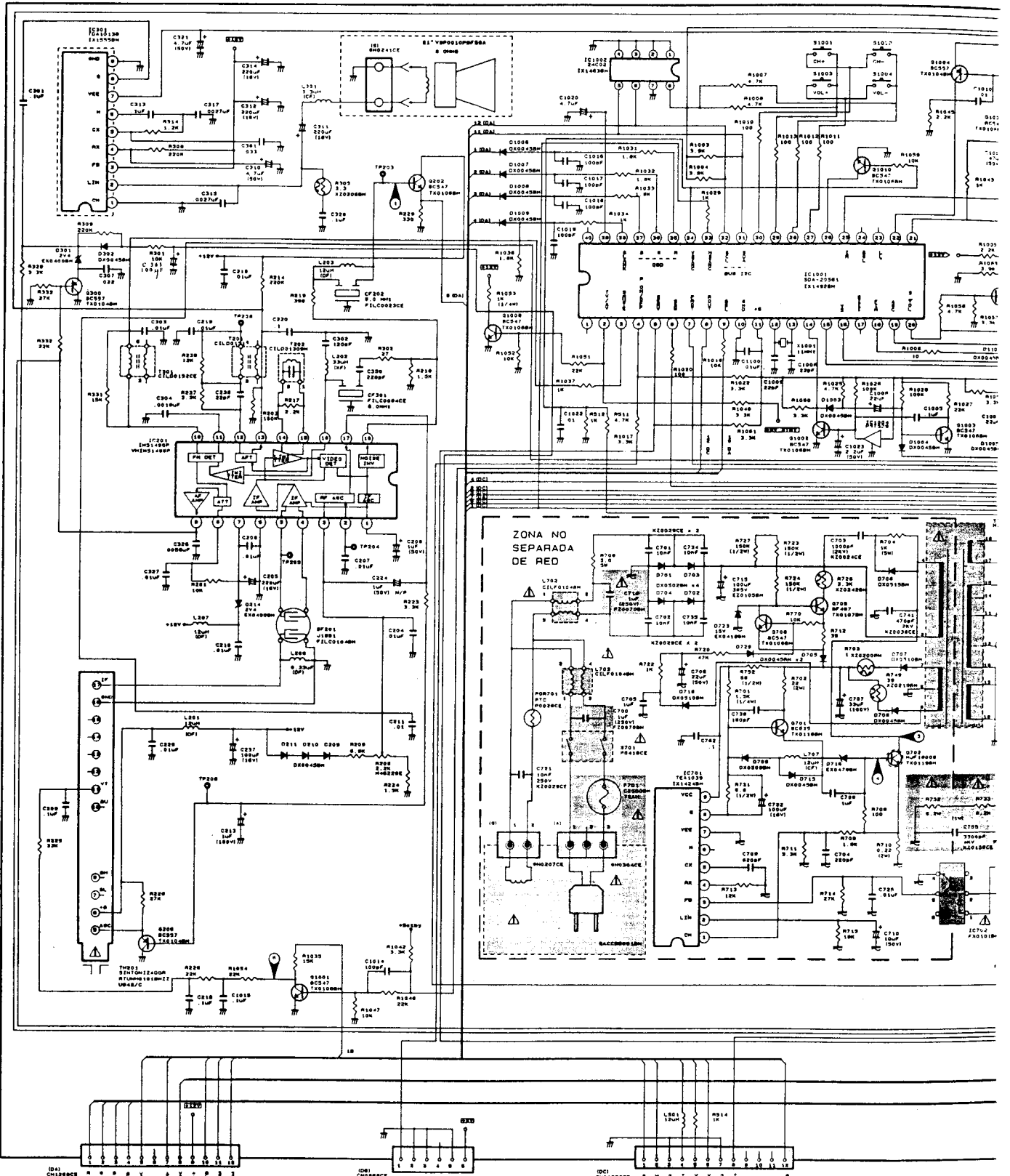
**RRMCG1038BMSA** (only for DV-5131H)



KEY NO.	FUNCTION
1	MODE
2	^
3	v
4	PRESET
5	^
6	^
7	^
8	SKIP
9	TV/VIDEO
10	3
11	2
12	1
13	■ CYAN
14	■ YELLOW
15	■ GREEN
16	■ RED
17	INDEX
18	HOLD
19	REVEAL
20	DISPLAY CANCEL
21	0
22	6
23	5
24	4
25	5
26	9
27	8
28	7
29	CH ^
30	CH v
31	0
32	-/-
40	O I
44	ON
48	OFF
52	TV
56	TEXT/MIX
60	HALF-PAGE
64	CLOCK

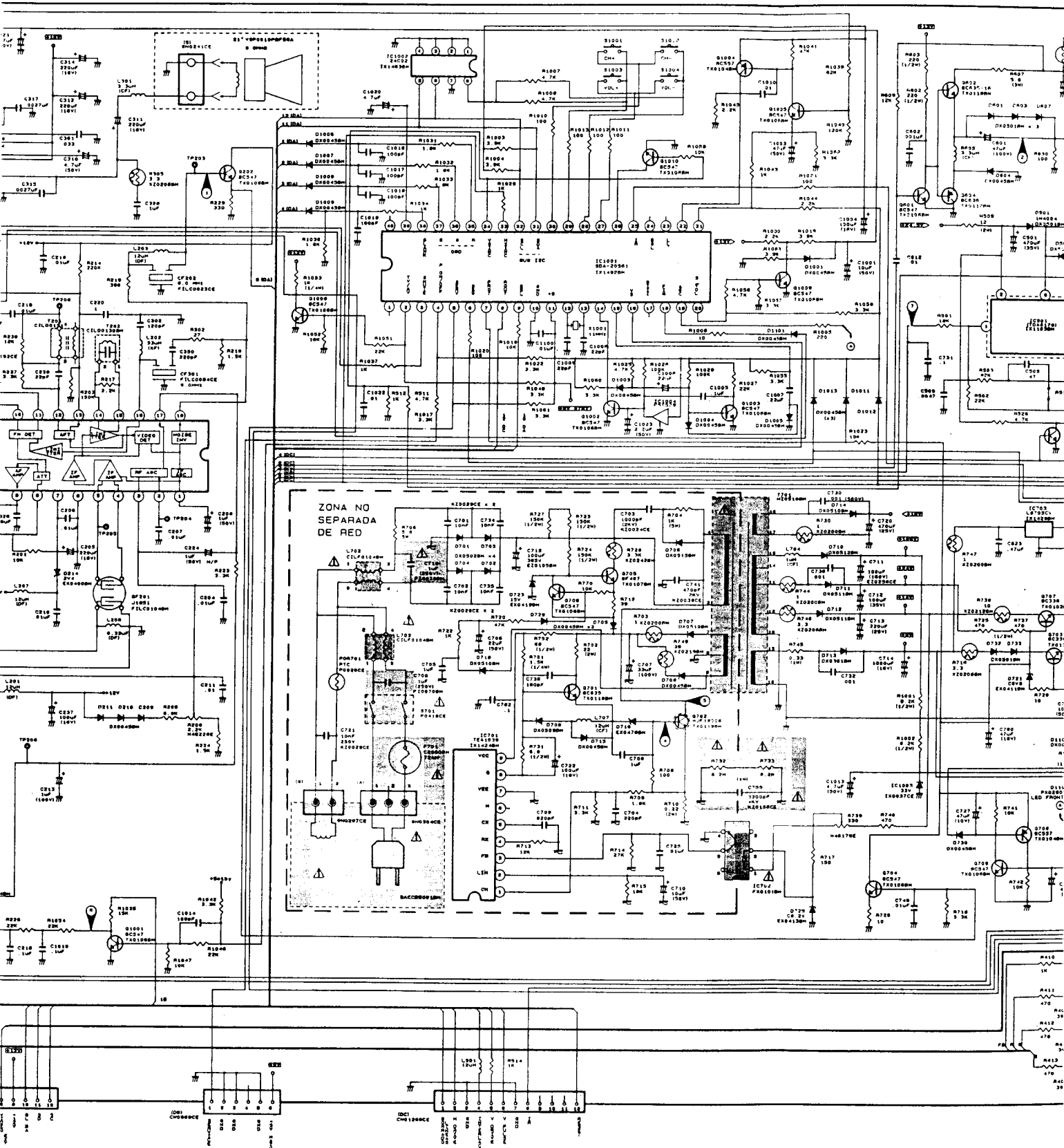
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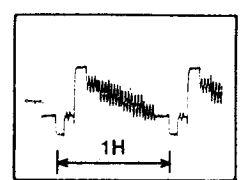
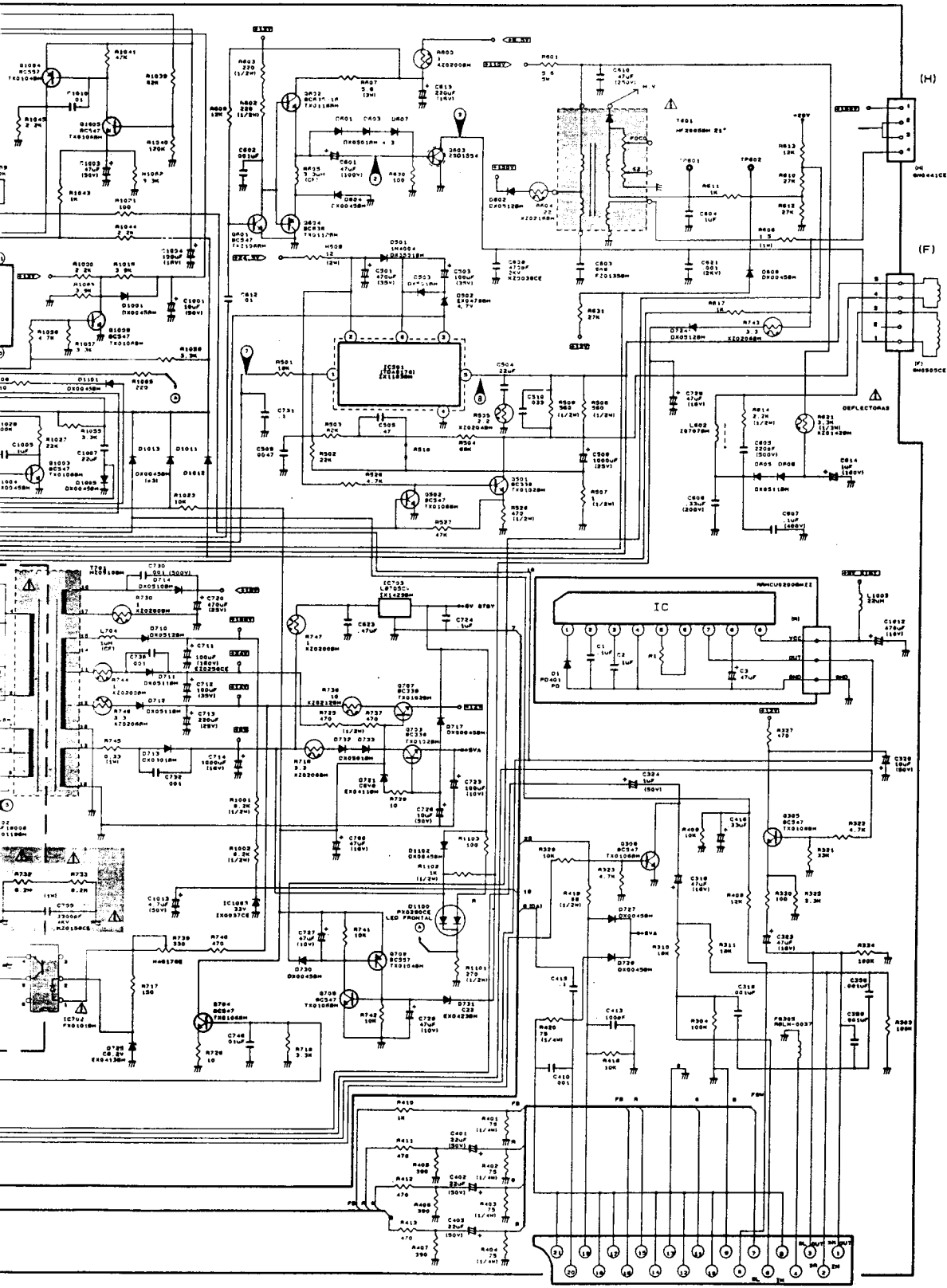
PWB-A

GRAM

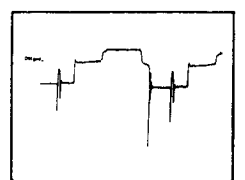


PWB-A

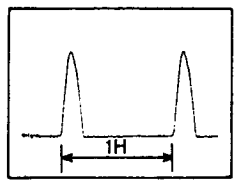




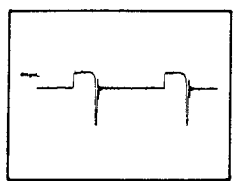
1 (2Vp-p)



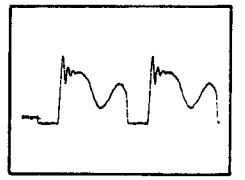
2 (4Vp-p)



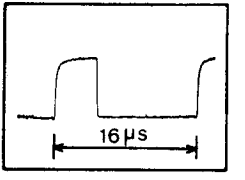
3 (980Vp-p)



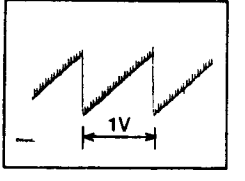
4 (15Vp-p)



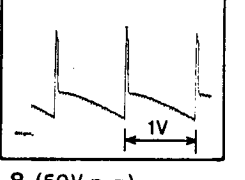
5 (768Vp-p)



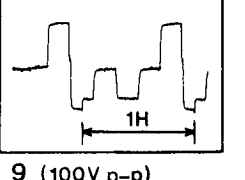
6 (16Vp-p)



7 (1.8Vp-p)



8 (50Vp-p)

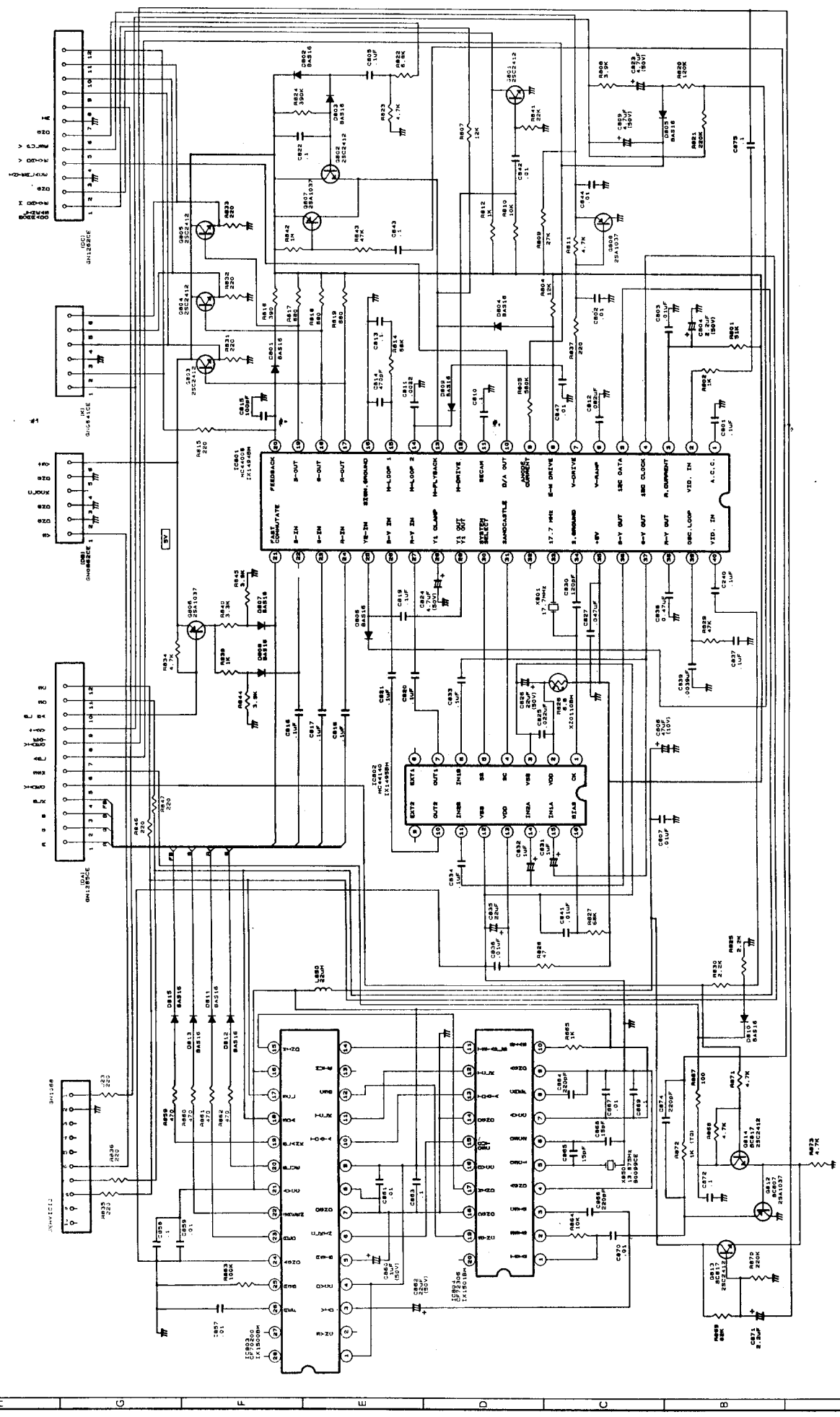


9 (100Vp-p)

PWB-A

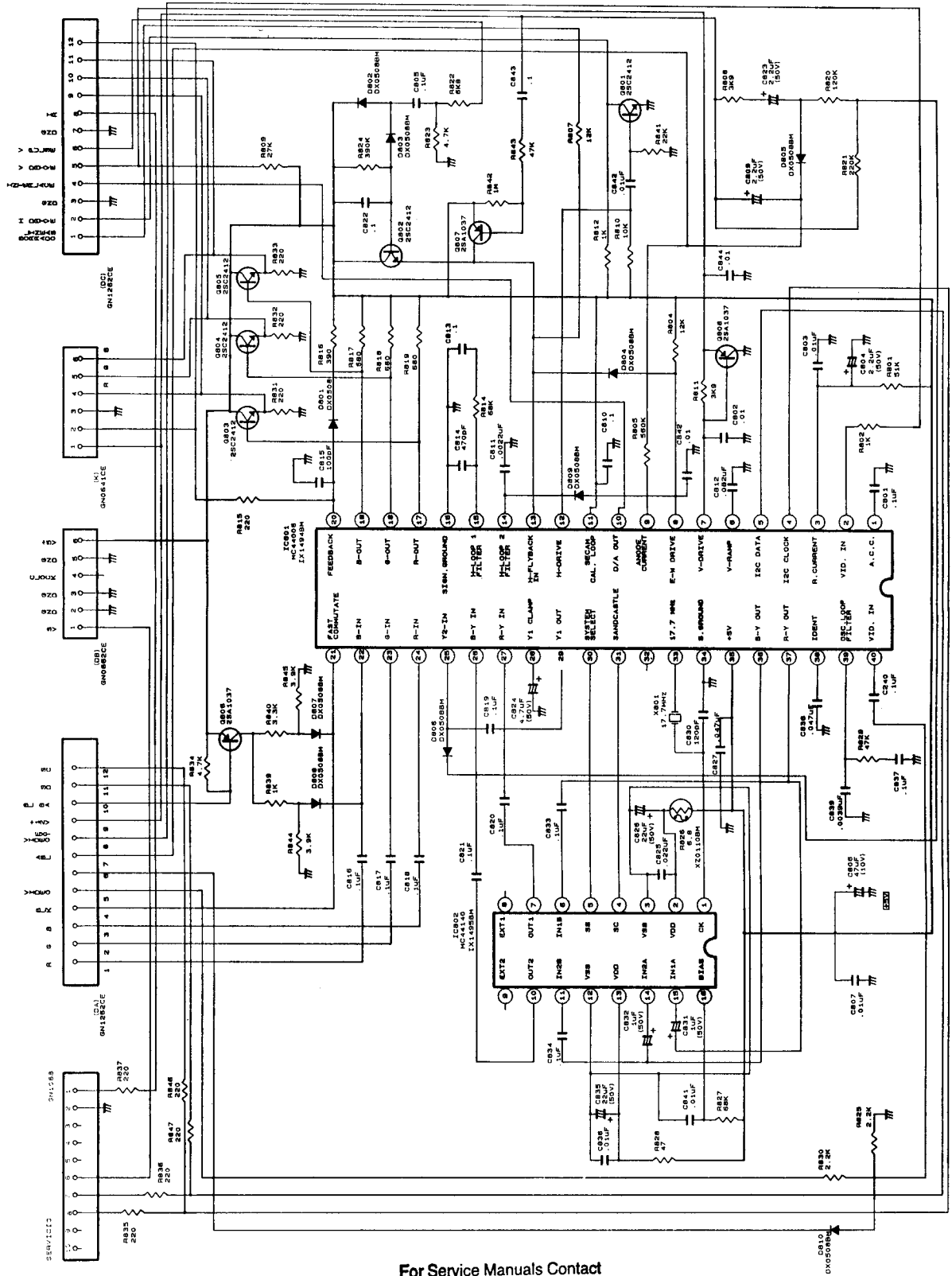
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 Oxon OX9 4QY  
 Tel: 01844 351604 Fax: 01844 352554  
 Email: enquiries@mauritron.co.uk

SCHEMATIC DIAGRAM



PWB-B (only for DV-5131H)

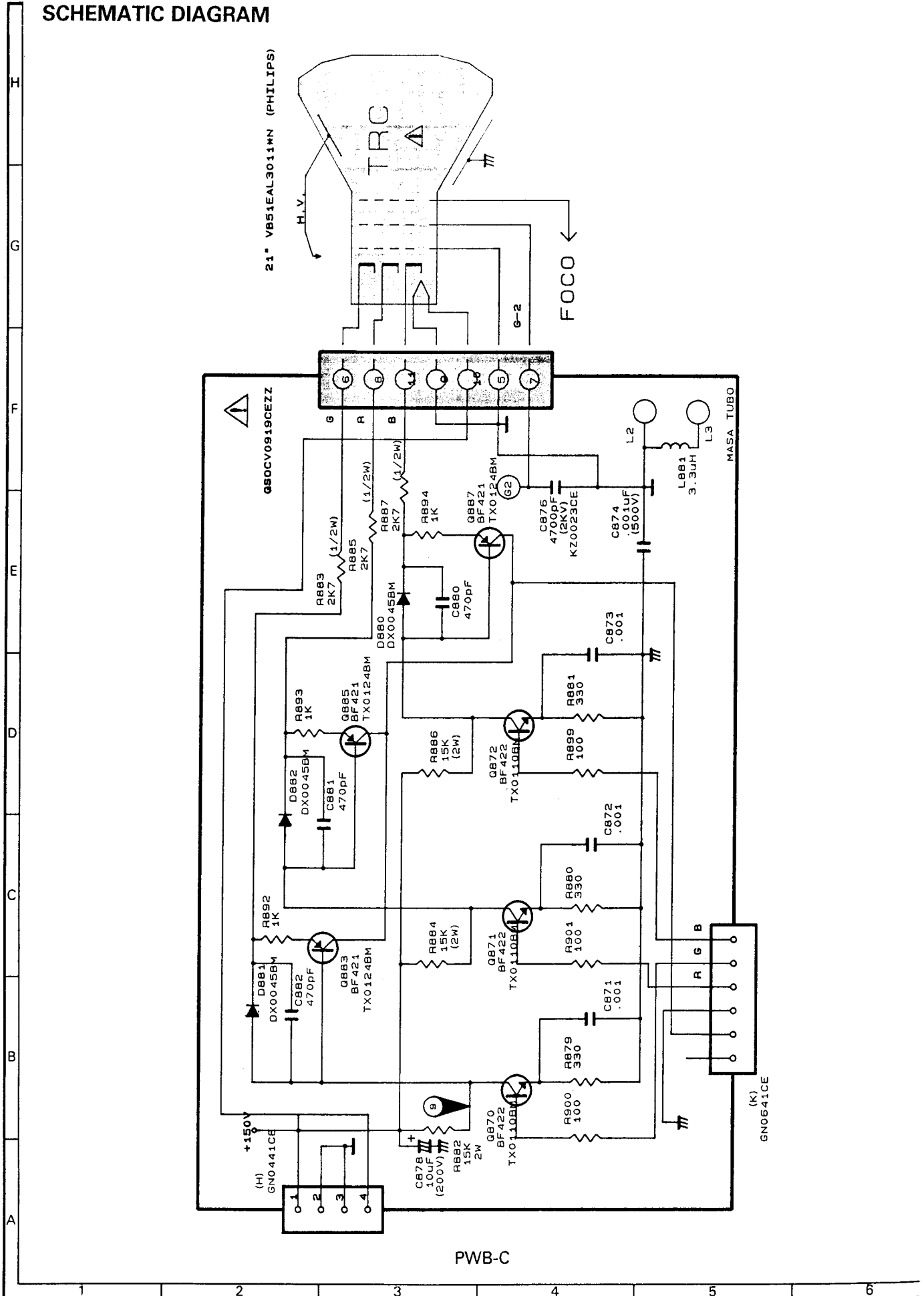
SCHEMATIC DIAGRAM



For Service Manuals Contact  
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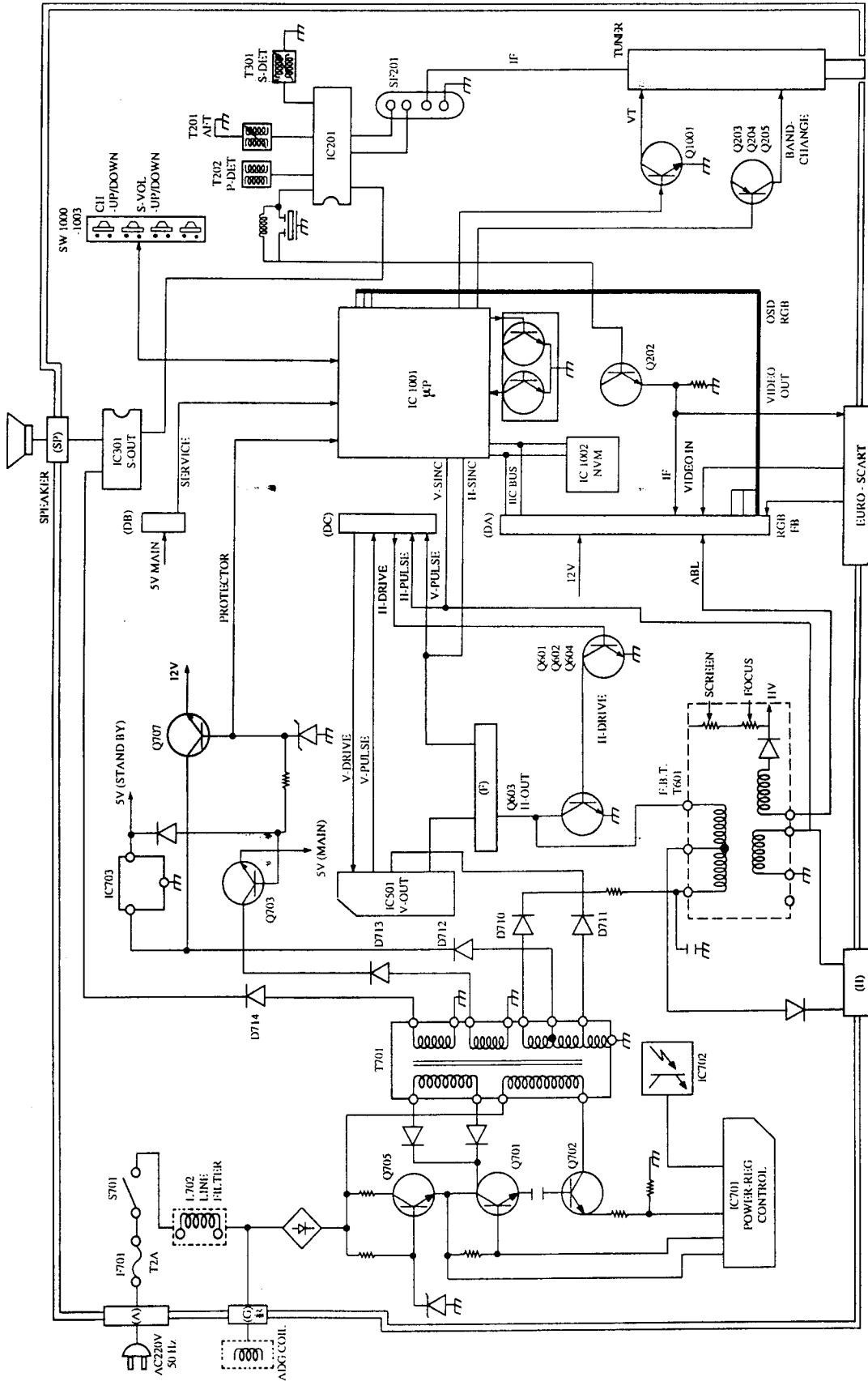
PWB-B (only for DV-5150H)

SCHEMATIC DIAGRAM



PWB-C

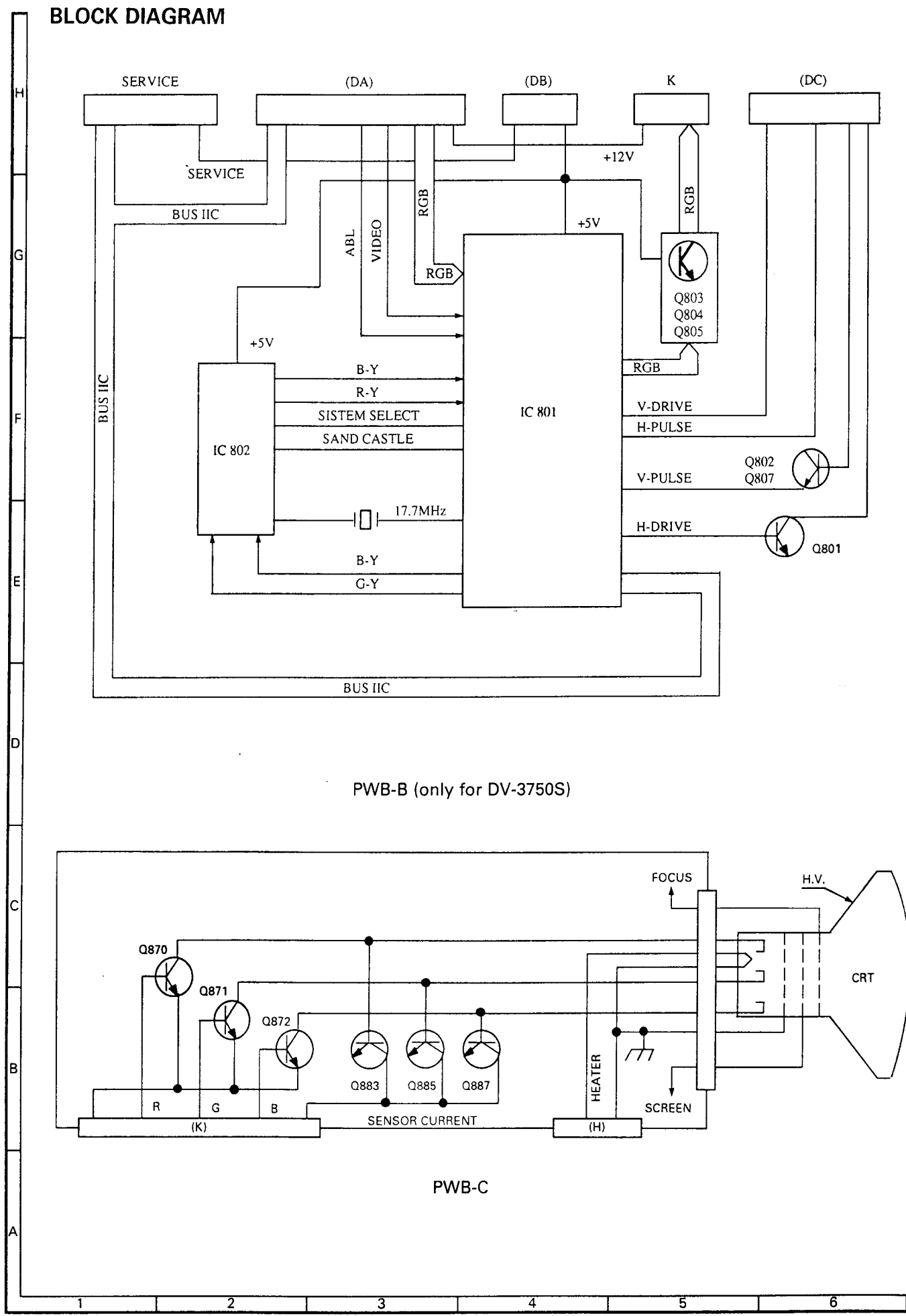
BLOCK DIAGRAM



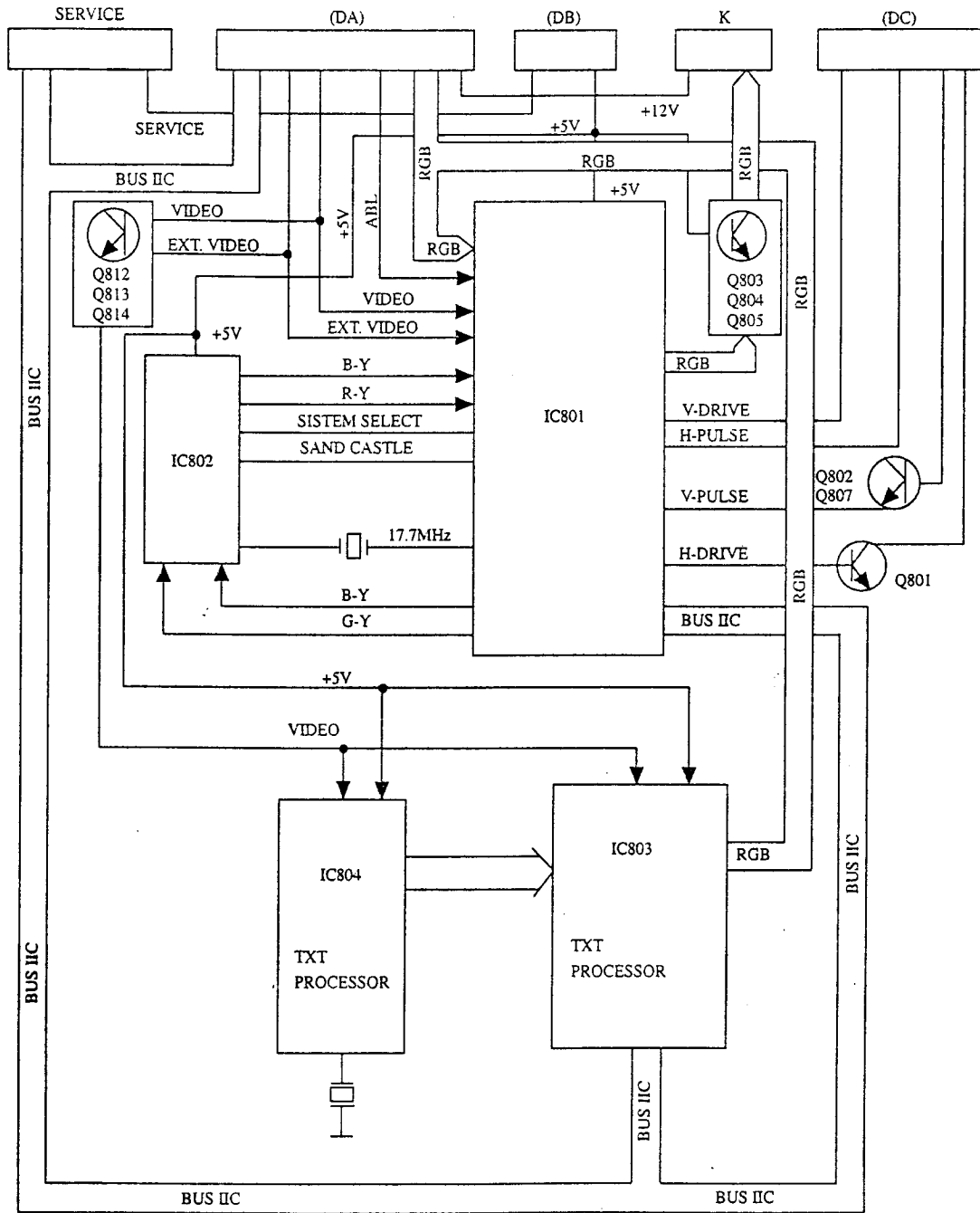
PWB-A

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**BLOCK DIAGRAM**



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PWB-B (only for DV-5131H)

PARTS LIST					REF. NO.	PART NO.	★	DESCRIPTION	CODE																																																																																															
<p align="center"><b>REPLACEMENT PARTS</b></p> <p>Replacement parts which have special safety characteristics are identified in this manual. Electrical components having such features are identified by <math>\Delta</math> in the Replacement Parts list. The use of a substitute replacement part which does not have the same safety characteristics as the factory recommended replacement parts shown in this service manual may create shock, fire or other hazards.</p> <p align="center"><b>HOW TO ORDER REPLACEMENT PARTS</b></p> <p>To have your order completed promptly and correctly please supply the following information.</p> <p>1. MODEL NUMBER                      2. REF. NO. 3. PART NO.                              4. DESCRIPTION 5. CODE                                    6. QUANTITY</p> <p align="center">★ MARK: SPARE PARTS DELIVERY SECTION</p> <table border="1"> <thead> <tr> <th>REF. NO.</th> <th>PART NO.</th> <th>★</th> <th>DESCRIPTION</th> <th>CODE</th> </tr> </thead> </table> <p align="center"><b>PICTURE TUBE</b></p> <table border="1"> <tr> <td><math>\Delta</math></td> <td>VB51EAL3011*N</td> <td>S</td> <td>CRT</td> <td>CL</td> </tr> <tr> <td><math>\Delta</math></td> <td>RCILG0408BMZZ</td> <td>S</td> <td>Degaussing Coil</td> <td>AP</td> </tr> </table> <p align="center"><b>PRINTED WIRING BOARD ASSEMBLIES</b> (Not replacement item, except Video Unit)</p> <table border="1"> <tr> <td>PWB-A</td> <td>—</td> <td>—</td> <td>Mother Unit</td> <td>—</td> </tr> <tr> <td>PWB-B</td> <td>DUNTK7091CJV5</td> <td>S</td> <td>Video Unit (DV-5150H)</td> <td>BH</td> </tr> <tr> <td></td> <td>DUNTK7101CJV0</td> <td>S</td> <td>Video Unit (DV-5131H)</td> <td>BR</td> </tr> <tr> <td>PWB-C</td> <td>—</td> <td>—</td> <td>CRT Socket Unit</td> <td>—</td> </tr> </table> <p align="center"><b>PWB-A MOTHER UNIT</b></p> <p align="center"><b>TUNER</b></p> <p align="center">NOTE: The parts shown here are supplied as an assembly but not separately.</p> <table border="1"> <tr> <td>TH 0201</td> <td>RTUNH0101BMZZ</td> <td>S</td> <td>Tuner</td> <td>BC</td> </tr> </table> <p align="center"><b>INTEGRATED CIRCUITS</b></p> <table border="1"> <tr> <td>IC 0201</td> <td>VHIM51496P/-1</td> <td>S</td> <td></td> <td>AP</td> </tr> <tr> <td>IC 0301</td> <td>RH-IX1555BMZZ</td> <td>S</td> <td></td> <td>AL</td> </tr> <tr> <td>IC 0501</td> <td>RH-IX1163BMZZ</td> <td>S</td> <td></td> <td>AM</td> </tr> <tr> <td>IC0701</td> <td>RH-IX1424BMZZ</td> <td>S</td> <td></td> <td>AN</td> </tr> <tr> <td><math>\Delta</math>IC0702</td> <td>RH-FX0101BMZZ</td> <td>S</td> <td></td> <td>AE</td> </tr> <tr> <td>IC 0703</td> <td>RH-IX1429BMZZ</td> <td>S</td> <td></td> <td>AE</td> </tr> <tr> <td>IC 1001</td> <td>RH-IX1492BMZZ</td> <td>S</td> <td></td> <td>AX</td> </tr> <tr> <td>IC 1002</td> <td>CH-IX1463CJH0</td> <td>S</td> <td>(DV-5150H)</td> <td>AK</td> </tr> <tr> <td></td> <td>CH-IX1463CJH1</td> <td>S</td> <td>(DV-5131H)</td> <td>AM</td> </tr> <tr> <td>IC 1003</td> <td>RH-IX0037CEZZ</td> <td>J</td> <td></td> <td>AD</td> </tr> <tr> <td>IC 1004</td> <td>VHIPST529C2-1</td> <td>J</td> <td></td> <td>AD</td> </tr> </table>					REF. NO.	PART NO.	★	DESCRIPTION	CODE	$\Delta$	VB51EAL3011*N	S	CRT	CL	$\Delta$	RCILG0408BMZZ	S	Degaussing Coil	AP	PWB-A	—	—	Mother Unit	—	PWB-B	DUNTK7091CJV5	S	Video Unit (DV-5150H)	BH		DUNTK7101CJV0	S	Video Unit (DV-5131H)	BR	PWB-C	—	—	CRT Socket Unit	—	TH 0201	RTUNH0101BMZZ	S	Tuner	BC	IC 0201	VHIM51496P/-1	S		AP	IC 0301	RH-IX1555BMZZ	S		AL	IC 0501	RH-IX1163BMZZ	S		AM	IC0701	RH-IX1424BMZZ	S		AN	$\Delta$ IC0702	RH-FX0101BMZZ	S		AE	IC 0703	RH-IX1429BMZZ	S		AE	IC 1001	RH-IX1492BMZZ	S		AX	IC 1002	CH-IX1463CJH0	S	(DV-5150H)	AK		CH-IX1463CJH1	S	(DV-5131H)	AM	IC 1003	RH-IX0037CEZZ	J		AD	IC 1004	VHIPST529C2-1	J		AD	<b>TRANSISTORS</b>				
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Q 0206,	RH-TX0104BMZZ	S	BC 557	AA																																																																																																				
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Q 0305,	RH-TX0106BMZZ	S	BC 547	AB																																																																																																				
0306																																																																																																								
Q 0501	RH-TX0102BMZZ	S	BC 338	AB																																																																																																				
Q 0502,	RH-TX0106BMZZ	S	BC 547	AB																																																																																																				
0601																																																																																																								
Q 0602	RH-TX0118BMZZ	S	BC 635 $\beta > 100$	AC																																																																																																				
Q 0603	VS2SD1554//2E	J		AL																																																																																																				
Q 0604	RH-TX0112BMZZ	S	BC 636	AB																																																																																																				
Q 0701	RH-TX0118BMZZ	S	BC 635 $\beta > 100$	AC																																																																																																				
Q 0702	RH-TX0119BMZZ	S	MJF 18006	AL																																																																																																				
Q 0703	RH-TX0102BMZZ	S	BC 338	AB																																																																																																				
Q 0704	RH-TX0106BMZZ	S	BC 547	AB																																																																																																				
Q 0705	RH-TX0107BMZZ	S	BF 487	AC																																																																																																				
Q 0706	RH-TX0106BMZZ	S	BC 547	AB																																																																																																				
Q 0707	RH-TX0102BMZZ	S	BC 338	AB																																																																																																				
Q 0708	RH-TX0104BMZZ	S	BC 557	AA																																																																																																				
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D 0209,	RH-DX0045BMZZ	S	1N4148	AA																																																																																																				
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0211																																																																																																								
D 0214	RH-EX0400BMZZ	S	BZX79C2V4	AB																																																																																																				
D 0301	RH-DX0045BMZZ	S	1N4148	AA																																																																																																				
D 0501	RH-DX0501BMZZ	S	1N4004	AA																																																																																																				
D 0502	RH-EX0437BMZZ	S	12 V 1 W	AC																																																																																																				
D 0503,	RH-DX0501BMZZ	S	1N4004	AA																																																																																																				
0601																																																																																																								
D 0602	RH-DX0512BMZZ	S	1N4936	AB																																																																																																				
D 0603	RH-DX0501BMZZ	S	1N4004	AA																																																																																																				
D 0604	RH-DX0045BMZZ	S	1N4148	AA																																																																																																				
D 0605,	RH-DX0511BMZZ	S	1N4935	AB																																																																																																				
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D 0607,	RH-DX0501BMZZ	S	1N4004	AA																																																																																																				
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D 0701,	RH-DX0502BMZZ	S	1N4005	AA																																																																																																				
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0703,																																																																																																								
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D 0705	RH-DX0045BMZZ	S	1N4148	AA																																																																																																				

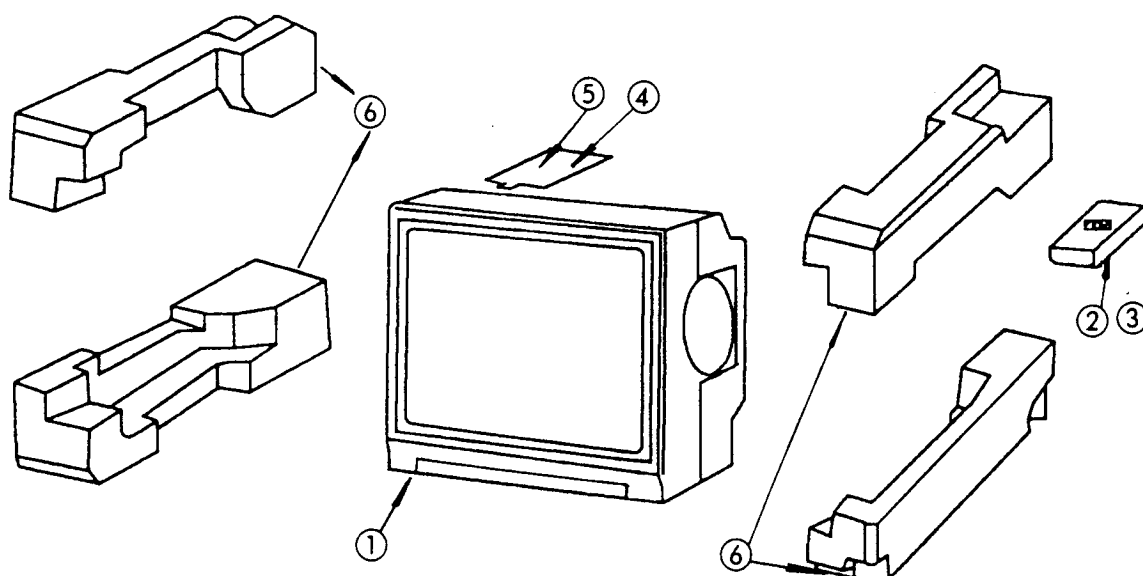


REF. NO.	PART NO.	★	DESCRIPTION	CODE	REF. NO.	PART NO.	★	DESCRIPTION	CODE
D 0706	RH-DX0515BMZZ	S	1N4937	AB	CERAMIC FILTER				
D 0707	RH-DX0510BMZZ	S	1N4934	AB	CF 0202	RFILC0023CEZZ	J	5.5 MHz (T 5.5 B)	AE
D 0708	RH-DX0045BMZZ	S	1N4148	AA					
D 0709	RH-DX0509BMZZ	S	1N4933	AB					
D 0710	RH-DX0512BMZZ	S	1N4936	AB	CF 0301	RFILC0084CEZZ	S	5.5 MHz (T 5.5 A)	AF
D 0711, 0712	RH-DX0511BMZZ	S	1N4935	AB	SF 0201	RFILC0104BMZZ	S	J 1951	AM
TRANSFORMERS									
D 0713	RH-DX0301BMZZ	S	BY 299	AD	△T 0601	RTRNF2005BMZZ	S	F.B.T.	BA
D 0714	RH-DX0510BMZZ	S	1N4934	AB	△T 0701	RTRNZ0510BMZZ	S	Chopper	AV
D 0715	RH-DX0045BMZZ	S	1N4148	AA	CONTROL				
D 0716	RH-EX0478BMZZ	S	1N4732 (4.7 V)	AB	R 0208	RVR-M4622GEZZ	J	2 K 2	AB
D 0717	RH-DX0045BMZZ	S	1N4148	AA	R 0739	RVR-M4617GEZZ	S	330	AC
D 0718	RH-DX0510BMZZ	S	1N4934	AB	CAPACITORS				
D 0721	RH-EX0411BMZZ	S	BZX79C6V8	AA	C 0205	VCEAGA1CW227M	J	220 16 V Electrolytic	AC
D 0723	RH-EX0419BMZZ	S	BZX79C15V	AB	C 0209	RC-FZ9104BMNJ	S	0.1 63 V Mylar	AB
D 0724	RH-DX0045BMZZ	S	1N4148	AA	C 0213	VCEAGA2AW105M	S	1 100 V Electrolytic	AA
D 0725	RH-EX0413BMZZ	S	BZX79C8V2	AB	C 0216, 0220	RC-FZ9104BMNJ	S	0.1 63 V Mylar	AB
D 0727, 0728, 0729, 0730	RH-DX0045BMZZ	S	1N4148	AA	C 0224	VCE9GA1HW105M	S	1 50 V Electrol. N/P	AB
D 0731	RH-EX0423BMZZ	S	BZX79C22V	AB	C 0237	VCEAGA1CW107M	S	100 16 V Electrolytic	AA
D 0732, 0733	RH-DX0501BMZZ	S	1N4004	AA	C 0238	VCCCPA1HH120J	S	12p 50 V Ceramic	AA
D 1001, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1011, 1012, 1013, 1101	RH-DX0045BMZZ	S	1N4148	AA	C 0301	RC-FZ9104BMNJ	S	0.1 63 V Mylar	AB
<p><b>For Service Manuals Contact</b>  <b>MAURITRON TECHNICAL SERVICES</b>  <b>8 Cherry Tree Rd, Chinnor</b>  <b>Oxon OX9 4QY</b>  <b>Tel:- 01844-351694 Fax:- 01844-352554</b>  <b>Email:- enquiries@mauritron.co.uk</b></p>									
D 1101	RH-PX0290CEZZ	S	LED	AE	C 0302	VCCSPA1HL121J	S	120p 50 V Ceramic	AA
D 1102	RH-DX0045BMZZ	S	1N4148	AA	C 0304	RC-FZ9182BMNJ	S	1800p 63 V Mylar	AB
PACKAGED CIRCUIT									
POR0701	RMPTP0028CEZZ	J	PTC	AG	C 0311, 0312	VCEAGA1CW227M	J	220 16 V Electrolytic	AC
X 1001	RCRSB0209BMZZ	S	Crystal 11.059 MHz	AG	C 0313	RC-FZ9104BMNJ	S	0.1 63 V Mylar	AB
COILS									
L 0201	VP-DF120K0000	J	12 µH	AB	C 0314	VCEAGA1CW227M	J	220 16 V Electrolytic	AC
L 0202	VP-XF330K0000	S	33 µH	AB	C 0315, 0317	RC-FZ9272BMNJ	S	2700p 63 V Mylar	AB
L 0203	VP-DF120K0000	J	12 µH	AB	C 0326	VCQYSH1HM562K	S	5600p 50 V Mylar	AB
L 0206	VP-DF1R2M0000	S	1.2 µH	AB	C 0328	RC-FZ9104BMNJ	S	0.1 63 V Mylar	AB
L 0207	VP-DF120K0000	J	12 µH	AB	C 0350	VCCSPA1HL221J	J	220p 50 V Ceramic	AA
L 0301	VP-CF3R3K0000	J	33 µH	AB	C 0413	VCCSPA1HL101J	J	100p 50 V Ceramic	AA
L 0602	RCILZ0707BMZZ	S	Delay Line	AH	C 0415	RC-FZ9104BMNJ	S	0.1 63 V Mylar	AB
△L 0702, △0703	RCILF0104BMZZ	S	Mains Filter	AM	C 0501	VCEAGA1VW477M	J	470 35 V Electrolytic	AD
L 0704	VP-CF1R0M0000	S	1 µH	AB	C 0503	VCEAGA1VW107M	J	100 35 V Electrolytic	AC
L 0707	VP-CF120K0000	S	12 µH	AB	C 0504, 0505	RC-FZ9224BMNJ	S	0.22 63 V Mylar	AC
L 1003	VP-DF220K0000	J	22 µH	AB	C 0506	VCEAGA1EW108M	J	1000 25 V Electrolytic	AD
T 0201	RCILD0151CEZZ	J	A.F.T. Coil	AD	C 0507	VCCCPA1HH1R5C	S	1.5 50 V Ceramic	AA
T 0202	RCILD0130BMZZ	S	Detector Coil	AE	C 0601	VCEAGA2AW476M	S	47 100 V Electrolytic	AC
T 0301	RCILD0152CEZZ	J	Sound Detector	AE	C 0603	RC-FZ0144BMZZ	S	5600p 1.5 kV Mylar	AE
					C 0604	RC-FZ9104BMNJ	S	0.1 63 V Mylar	AB
					C 0605	VCKYPA2HB221K	J	220p 500 V Ceramic	AA
					C 0606	RC-FZ6334BMNJ	S	0.33 200 V Mylar	AE
					C 0607	RC-FZ7104BMNJ	S	0.1 400 V Mylar	AD
					C 0608	RC-KZ0038CEZZ	J	470p 2 kV Ceramic	AB
					C 0610	RC-FZ6474BMNJ	S	0.47 250 V Mylar	AE
					C 0612	RC-FZ9103BMNJ	S	0.01 63 V Mylar	AB
					C 0613	VCEAGA1CW227M	J	220 16 V Electrolytic	AC
					C 0614	VCEAGA2CW105M	S	1 160 V Electrolytic	AB
					C 0621	RC-KZ0024CEZZ	J	1000p 2 kV Mylar	AC
					C 0623	RC-FZ9474BMNJ	S	0.47 63 V Mylar	AD

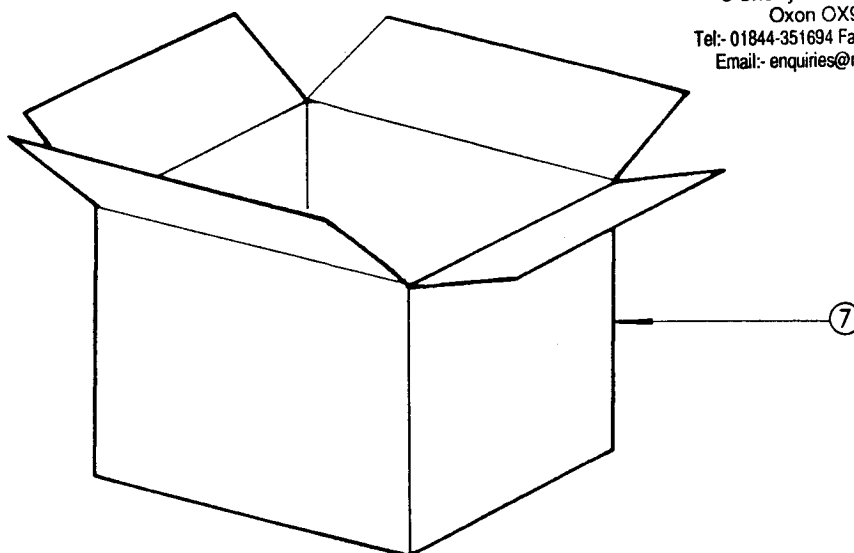
REF. NO.	PART NO.	★	DESCRIPTION	CODE	REF. NO.	PART NO.	★	DESCRIPTION	CODE
△C0700	RC-FZ0145BMZZ	S	0.1 300 V Mylar	AD	R 0743	RR-XZ0206BMZZ	S	3.3 1/2 W Fuse Resistor	AB
C 0701, 0702	RC-KZ0029CEZZ	J	0.01 250 V Ceramic	AC	R 0744	RR-XZ0200BMZZ	S	1 1/2 W Fuse Resistor	AB
C 0703	RC-KZ0024CEZZ	J	1000p 2 kV Ceramic	AC	R 0745	VRN-VV3ABR33J	J	0.33 1 W Metal Film	AA
C 0705	RC-FZ9104BMNJ	S	0.1 63 V Mylar	AB	R 0746	RR-XZ0206BMZZ	S	3.3 1/2 W Fuse Resistor	AB
C 0707	VCEAGA2AW336M	S	33 100 V Electrolytic	AB	R 0747	RR-XZ0200BMZZ	S	1 1/2 W Fuse Resistor	AB
C 0708	RC-FZ9105BMNJ	S	1 63 V Mylar	AD	R 0749	RR-XZ0219BMZZ	S	39 1/2 W Fuse Resistor	AB
C 0711	RC-EZ0103BMZZ	S	100 160 V Electrolytic	AF	MISCELLANEOUS PARTS				
C 0712	VCEAGA1VW107M	J	100 35 V Electrolytic	AC	△F0701	QFS-C2050BMZZ	S	Fuse 250 V 2 A	AD
C 0713	VCEAGA1EW227M	J	220 25 V Electrolytic	AC	F 0702	QFSDH1009CEZZ	J	Fuse Holder	AA
C 0714	VCEAGA1CW108M	S	1000 16 V Electrolytic	AC	F 0703	QFSDH1010CEZZ	S	Fuse Holder	AB
C 0715	RC-EZ0105BMZZ	S	100 385 V Electrolytic	AM	FB 0605	RBLN-0037CEZZ	J	Ferrite Bead	AB
△C0718	RC-FZ0145BMZZ	S	0.1 300 V Mylar	AD	△S 0701	QSW-P0418CEZZ	J	Power Switch	AK
C 0720	VCEAGA1EW477M	S	470 25 V Electrolytic	AC	S 1001,	QSW-K0079GEZZ	J	Push Button (CH UP)	AB
C 0721	RC-KZ0029CEZZ	J	0.01 250 V Ceramic	AC	1002,			(CH DOWN)	
C 0722	VCEAGA1CW107M	S	100 16 V Electrolytic	AA	1003,			(VOL UP)	
C 0723	VCEAGA1AW107M	S	100 10 V Electrolytic	AA	1004			(VOL DOWN)	
C 0724, 0725	RC-FZ9104BMNJ	S	0.1 63 V Mylar	AB	(A)	QPLGN0304CEZZ	J	Connector	AB
C 0734, 0735	RC-KZ0029CEZZ	J	0.01 250 V Ceramic	AC	(F)	QPLGN0505CEZZ	J	Connector	AB
C 0738	VCCSPA1HL181J	S	180p 50 V Ceramic	AA	(G)	QPLGN0207CEZZ	J	Connector	AA
C 0740	RC-KZ0024CEZZ	J	1000p 2 kV Ceramic	AC	(H)	QPLGN0441CEZZ	J	Connector	AB
C 0741	RC-KZ0038CEZZ	J	470p 2 kV Ceramic	AB	(S)	QPLGN0241CEZZ	J	Connector	AA
△C0755	RC-KZ0156CEZZ	S	3300p 4 kV Ceramic	AD	(DB)	QSOCN0669CEZZ	J	Connector	AB
C 1004	VCEAGA1CW107M	S	100 16 V Electrolytic	AA	(DA),	QSOCN1269CEZZ	S	Connector	AD
C 1005	RC-FZ9104BMNJ	S	0.1 63 V Mylar	AB	(DC)				
C 1007	RC-FZ9224BMNJ	S	0.22 63 V Mylar	AC		QSOCZ0106BMZZ	S	RGB Connector	AE
C 1008, 1009	VCCSPA1HL220J	S	22p 50 V Ceramic	AA		RRMCU0200BMZZ	S	Remote Control Receiver	AN
C 1012	VCEAGA1AW477M	S	470 10 V Electrolytic	AB	PWB-B VIDEO UNIT				
C 1014	VCCSPA1HL101J	J	100p 50 V Ceramic	AA	INTEGRATED CIRCUITS				
C 1015	RC-FZ9104BMNJ	S	0.1 63 V Mylar	AB	IC 0801	RH-IX1494BMZZ	S		BA
C 1016, 1017, 1018, 1019	VCCSPA1HL101J	J	100p 50 V Ceramic	AA	IC 0802	RH-IX1495BMZZ	S		AP
C 1021	RC-FZ9104BMNJ	S	0.1 63 V Mylar	AB	IC 0803	RH-IX1500BMZZ	S	(only for DV-5131H)	BD
C 1022	RC-FZ9103BMNJ	S	0.01 63 V Mylar	AB	IC 0804	RH-IX1501BMZZ	S	(only for DV-5131H)	AQ
RESISTORS					TRANSISTORS				
R 0305	RR-XZ0206BMZZ	S	3.3 1/2 W Fuse Resistor	AB	Q 0801, 0802, 0803, 0804, 0805	VS2SC2412KQ-1	J	BC 817 SMD	AA
R 0505	RR-XZ0204BMZZ	S	2.2 1/2 W Fuse Resistor	AB	Q 0806, 0807, 0808, 0812,	VS2SA1037KQ-1	J	BC 807 SMD	AA
R 0600	RR-XZ0200BMZZ	S	1 1/2 W Fuse Resistor	AB	Q 0813, 0814	VS2SC2412KQ-1	J	BC 817 SMD	AA
R 0601	VRW-KX3HC5R6K	J	5.6 5 W Cement	AE	DIODES				
R 0604	RR-XZ0216BMZZ	S	22 1/2 W Fuse Resistor	AB	D 0801, 0802, 0803, 0804, 0805, 0806, 0807, 0808, 0809, 0810, 0811, 0812, 0813, 0815	RH-DX0508BMZZ	S	SMD	AB
R 0606	VRN-VV3ABR47J	J	0.47 1 W Metal Film	AA	<p>For Service Manuals Contact MAURITRON TECHNICAL SERVICES 8 Cherry Tree Rd. Chinnor Oxon OX9 4QY Tel: 01844-351694 Fax: 01844-352554 Email: enquiries@mauriton.co.uk</p>				
R 0607	VRN-VV3DB8R2J	S	8.2 2 W Metal Film	AB					
R 0621	RR-XZ0142BMZZ	S	3.3 K 1/3 W Fuse Resistor	AB					
R 0702	VRN-VV3DB220J	J	22 2 W Metal Film	AB					
R 0703	RR-XZ0200BMZZ	S	1 1/2 W Fuse Resistor	AB					
R 0704	VRW-KP3HC102K	J	1 k 5 W Cement	AC					
R 0706	VRW-KX3HC5R6K	J	5.6 5 W Cement	AE					
R 0710	VRN-VV3DBR22J	J	0.22 2 W Metal Film	AB					
R 0716	RR-XZ0206BMZZ	S	3.3 1/2 W Fuse Resistor	AB					
R 0728	RR-XZ0242BMZZ	S	3.3 k 1/2 W Fuse Resistor	AB					
R 0730	RR-XZ0200BMZZ	S	1 1/2 W Fuse Resistor	AB					
△R0732, 0733	VRC-UA2HG825K	J	8.2 M 1/2 W Solid	AA					
R 0738	RR-XZ0212BMZZ	S	10 1/2 W Fuse Resistor	AB					

REF. NO.	PART NO.	★	DESCRIPTION	CODE	REF. NO.	PART NO.	★	DESCRIPTION	CODE
PACKAGED CIRCUITS					RESISTORS				
X 0801	RCRSB0200BMZZ	S	Crystal 17.73 MHz	AG	R 0882	VRS-VV3DB153J	J	15 k 2 W Metal Oxide	AA
X 0850	RCRSB0099BMZZ	S	Crystal 13.875 MHz (DV-5131H)	AH	R 0883	VRC-MA2HG272K	J	2.7 k 1/2 W Solid	AA
COILS					R 0884	VRS-VV3DB153J	J	15 k 2 W Metal Oxide	AA
L 0850	VP-DF220K0000	S	22 μ H	AB	R 0885	VRC-MA2HG272K	J	2.7 k 1/2 W Solid	AA
CAPACITORS					R 0886	VRS-VV3DB153J	J	15 k 2 W Metal Oxide	AA
C 0802	RC-FZ9823BMNJ	S	0.082 63 V Mylar	AB	R 0887	VRC-MA2HG272K	J	2.7 k 1/2 W Solid	AA
C 0814	VCCSTV1HL471J	S	470p 50 V SMD	AA	MISCELLANEOUS PARTS				
C 0815	VCCSTV1HL101J	S	100p 50 V SMD	AA	△	QSOCV0919CEZZ	S	CRT Socket	AM
C 0830	VCCSTV1HL121J	S	120p 50 V SMD	AA	(H)	QPLGN0441CEZZ	J	Connector	AB
C 0864	VCCSTV1HL221J	S	220p 50 V SMD	AA	<b>MISCELLANEOUS PARTS</b>				
C 0865	VCCSTV1HL101J	S	100p 50 V SMD	AA	△	QACCZ5001BMZZ	S	AC Cord	AT
C 0866	VCCSTV1HL221J	S	220p 50 V SMD	AA		RRMCG1038BMSA	S	Infrared Remote Control Unit (DV-5131H)	AY
C 0868	VCCSTV1HL101J	S	100p 50 V SMD	AA		RRMCG1037BMSA	S	Infrared Remote Control Unit (DV-5150H)	AW
C 0874	VCCSTV1HL221J	S	220p 50 V SMD	AA		VSP0010P-BF58A	J	Speaker	AT
RESISTOR					<b>CABINET PARTS</b>				
R 0826	RR-XZ0110BMZZ	S	6.8 1/3 W Fuse Resistor	AB	1	CCABA1037BMV8	S	Front Cabinet Assembly (DV-5131H)	BF
MISCELLANEOUS PARTS					1	CCABA1037BMV4	S	Front Cabinet Assembly (DV-5150H)	BG
(DA)	QPLGN1262CEZZ	J	Connector	AC	1-1	GMADT1027BMSA	S	Window (DV-5131H)	AK
(DB)	QPLGN0662CEZZ	J	Connector	AB	1-1	GMADT1035BMSA	S	Window (DV-5150H)	AG
(DC)	QPLGN1262CEZZ	J	Connector	AC	1-2	JBTN-1009BMSA	S	Push Buttons (UP DOWN)	AC
(K)	QPLGN0641CEZZ	S	Connector	AB	1-3	JBTN-1010BMSA	S	Push Buttons (MAINS)	AD
	QSOCN1068BMZZ	S	Connector	AE	2	CCABB1016BMV9	S	Rear Cabinet Assembly	BB
<b>PWB-C CRT SOCKET UNIT</b>					<p>The diagram shows a front view of a television set. Callout 1 points to the top bezel. Callout 2 points to the left side bezel. Callouts 1-1, 1-2, and 1-3 point to the bottom bezel area, specifically to the window and button locations.</p>				
TRANSISTORS									
Q 0870, 0871, 0872	RH-TX0110BMZZ	S	BF 422	AB					
Q 0883, 0884, 0887	RH-TX0124BMZZ	S	BF 421	AB					
DIODES									
D 0880, 0881, 0882	RH-DX0045BMZZ	S	1N4148	AA					
CAPACITORS									
C 0871, 0872, 0873	VCCSPA1HL331J	S	330p 50 V Ceramic	AB					
C 0874	VCKYPA2HB102K	J	1000p 500 V Ceramic	AA					
C 0876	RC-KZ0023CEZZ	J	4700p 2 kV Ceramic	AD					
C 0878	VCEAAA2DW106M	J	10 200 V Electrolytic	AC					

	PART NO.	DESCRIPTION
1.		Television
2.	RRMCG1038BMSA RRMCG1037BMSA	Infrared Remote Control Unit (DV-5131H) Infrared Remote Control Unit (DV-5150H)
3.	UBATU0007UMZZ	Batteries (IR R/C)
4.	TINS-6167BMN0 TINS-6147BMN0	Operation Manual (DV-5131H) Operation Manual (DV-5150H)
5.	TGAN-1510BMN0 TINS-6109BMN0	Guarantee Card
6.	—	Packing Material
7.	—	Packing Case



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



# NOTES

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