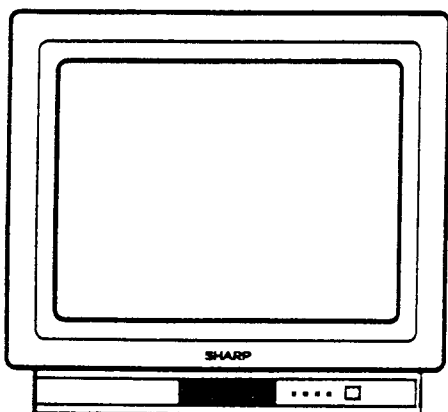


SHARP SERVICE MANUAL

SEJL51AT15H/2

5BS-A - CHASSIS

PAL SYSTEM COLOUR TELEVISION



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51AT-15H 51AT-15IR

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.

CONTENS

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• IMPORTANT SERVICE NOTES	3	• SCHEMATIC DIAGRAM AND	
• SERVICE ADJUSTMENT.....	4	WAVEFORMS	15
• CHASSIS LAYOUT	11	• BLOCK DIAGRAM	19
• PRINTED WIRING BOARD ASSEMBLIES	12	• REPLACEMENT PARTS LIST	21

ELECTRICAL SPECIFICATIONS

Aerial input Impedance 75 ohm unbalanced
Convergence Self Converging System
Focus Bipotential electrostatic
Audio Power Output Rating 4 Watt (M.P.O.)
Intermediate Frequencies
Picture IF Carrier Frequency 39.5 MHz
Sound IF Carrier Frequency 33.5 MHz
Colour Sub-Carrier Frequency 35.07 MHz
(Nominal)

Power Input 240 Volts AC 50 Hz
Power Consumption 50 Wh
Speaker Size 10 cm (Round)
Voice Coil Impedance 16 ohms
Sweep Deflection Magnetic
Tuning Ranges 48.25 Mhz-855.25 MHz
CATV Special channels

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.

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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 μ 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 μ 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

Before returning the receiver to the user, perform the following safety checks.

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.

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SERVICE ADJUSTMENT

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. Press main switch to OFF.
2. Connect Test Pattern signal to antenna terminal.
3. Press ∇ \triangleleft and CH \triangleleft buttons and main switch to ON simultaneously.
4. —SERV— will appear on screen. Service mode is now entered.
5. Select adjustment using buttons \triangleleft CH ∇ .

To exit service mode, press main switch to OFF or press MODE button on R/C.

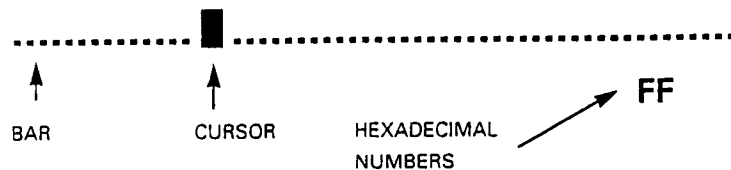
	Displayed on Screen	Hexadecimal Range	Function
	—SERV—		Indicates operative Service Mode.
a.	AGC	00 ~ FF	Auto Gain Control.
b.	AFT	00 ~ FF	Auto Frequency Control
c.	BL PHA	00 ~ 3F	Blanking Pulse shift.
d.	VER PO	00 ~ 3F	Vertical Position shift.
e.	VER AM	00 ~ 3F	Vertical Amplitude shift.
f.	VER SM	00 ~ 3F	Vertical Symmetry alteration.
g.	LUMA-D	00 ~ 05	Luma Delay
h.	GII		Indication of G2 adjustment.
i.	V-B-CO	00 ~ 3F	Vertical Breathing Correction (DON'T TOUCH).
j.	GAIN R	00 ~ 3F	Red Gain.
k.	GAIN G	00 ~ 3F	Green Gain.
l.	GAIN B	00 ~ 3F	Blue Gain.
m.	NVM		Access to NVM memory.

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6. For "a" thru "l" selections.

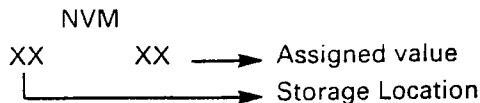
Adjustment to a selection can be made by pressing buttons \triangleleft \triangleleft ∇ . (Not for GII adjustment).

A colour bar is displayed on the OSD to indicate the adjustment position, together with hexadecimal numbers (Not for GII adjustment).



For "m" Selection.

NVM storage location settings variants.



In order to have access to the desired storage location, buttons \triangleleft \triangleleft ∇ 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 \square_0 to \square_7 , respectively. This switches its binary number from and between 0 and 1 each time one of the buttons is pressed.

$$\square_0 = 2^0 = 1, \quad \square_1 = 2^1 = 2, \quad \square_2 = 2^2 = 4, \dots$$

NVM MAP

ADD (HEX)	DESCRIPTION	XBH, GCA																
00	RED COLOUR TEMPERATURE																	
01	GREEN COLOUR TEMPERATURE																	
02	BLUE COLOUR TEMPERATURE																	
03	VERTICAL POSITION																	
04	HORIZONTAL PHASE CONTROL																	
05	VERTICAL AMPLITUDE																	
06	VERTICAL BREATHING CORRECTION																	
07	VERTICAL LINEARITY																	
08	LUMA DELAY PAL																	
09	LUMA DELAY SECAM																	
0A	AGC																	
0B	<p>OPTIONS:</p> <table border="1" style="margin-left: 40px;"> <tr> <td>ING_OSD</td> <td>A_F</td> <td>CHL</td> <td>PAL</td> <td>UHF</td> <td>T_LOCK</td> <td>AV_F</td> <td>FP</td> </tr> <tr> <td style="text-align: center;">7</td> <td style="text-align: center;">6</td> <td style="text-align: center;">5</td> <td style="text-align: center;">4</td> <td style="text-align: center;">3</td> <td style="text-align: center;">2</td> <td style="text-align: center;">1</td> <td style="text-align: center;">0</td> </tr> </table> <p>0: FP: SYSTEM B/G (0) - B/G+L, MESSAGE RECHERCHE (1) 1: AV FRONTAL: NOT INCLUDED (0), INCLUDED (1) 2: TUNING LOCK: LOCKED (1), NOT LOCKED (0) 3: UHF ONLY: BAND UHF (1) - ALL BANDS (0) 4: PAL ONLY (1), PAL+SECAM (0) 5: CHILD LOCK: CHILD LOCK ACTIVE (1) CHILD LOCK NO ACT (0) 6: AUTO FIRST: TUNING FIRST MENU: AUTO (1) MANUAL (0) 7: ING_OSD: OSD_INGLES (1) OSD_SYMBOL (0)</p>	ING_OSD	A_F	CHL	PAL	UHF	T_LOCK	AV_F	FP	7	6	5	4	3	2	1	0	
ING_OSD	A_F	CHL	PAL	UHF	T_LOCK	AV_F	FP											
7	6	5	4	3	2	1	0											
0C	AFT ADJUSTMENT VALUE (B/G, L SYSTEMS)																	
0D	AFT ADJUSTMENT VALUE (L' SYSTEM)																	
0E	MAXIMUM VOLUME LIMIT																	
0F	FIRM																	
10	RED COLOUR TEMPERATURE	<p>For Service Manuals Contact MAURITRON TECHNICAL SERVICES 8 Cherry Tree Rd, Chinner Oxon OX9 4QY Tel:- 01844-351694 Fax:- 01844-352554 Email:- enquiries@mauritron.co.uk</p>																
11	GREEN COLOUR TEMPERATURE																	
12	BLUE COLOUR TEMPERATURE																	
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14	HORIZONTAL PHASE CONTROL																	
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17	VERTICAL LINEARITY																	

ADD (HEX)	DESCRIPTION																
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19	LUMA DELAY SECAM																
1A	AGC																
1B	<p>OPTIONS:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>ING_OSD</td> <td>A_F</td> <td>CHL</td> <td>PAL</td> <td>UHF</td> <td>T_LOCK</td> <td>AV_F</td> <td>FP</td> </tr> <tr> <td style="text-align: center;">7</td> <td style="text-align: center;">6</td> <td style="text-align: center;">5</td> <td style="text-align: center;">4</td> <td style="text-align: center;">3</td> <td style="text-align: center;">2</td> <td style="text-align: center;">1</td> <td style="text-align: center;">0</td> </tr> </table> <p>0: FP: SYSTEM B/G (0) - B/G+L, MESSAGE RECHERCHE (1) 1: AV FRONTAL: NOT INCLUDED (0), INCLUDED (1) 2: TUNING LOCK: LOCKED (1), NOT LOCKED (0) 3: UHF_ONLY: BAND UHF (1) - ALL BANDS (0) 4: PAL ONLY (1), PAL+SECAM (0) 5: CHILD LOCK: CHILD LOCK ACTIVE (1) CHILD LOCK NO ACT (0) 6: AUTO FIRST: TUNING FIRST MENU: AUTO (1) MANUAL (0) 7: ING_OSD: OSD_INGLES (1) OSD_SYMBOL (0)</p>	ING_OSD	A_F	CHL	PAL	UHF	T_LOCK	AV_F	FP	7	6	5	4	3	2	1	0
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ING_OSD	A_F	CHL	PAL	UHF	T_LOCK	AV_F	FP										
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ADD (HEX)	DESCRIPTION
2C	AFT ADJUSTMENT VALUE (B/G, L SYSTEMS)
2D	AFT ADJUSTMENT VALUE (L' SYSTEM)
2E	MAXIMUM VOLUME LIMIT
2F	FIRM
30	TABLE LONG
31	FIRM
32	AGING ON. AUTOMATIC SWITCH ON.
33	SWITCH ON DELAY TIME
34	VOLUME
35	CONTRAST
36	COLOUR
37	BRIGHTNESS
38	PEAKING (RANGE: 1-7)
39	ACTUAL PROGRAMM
3A	TV STATE ON/OFF
3B	DECIMAL VOLUME VALUE (FACTORY PRESET)
3C	CONTRAST (FACTORY PRESET)
3D	COLOUR (FACTORY PRESET)
3E	BRIGHTNESS (FACTORY PRESET)
3F	PEAKING (RANGE: 0-7) (FACTORY PRESET)
40	ON TIMER LAST VALUE
41	OFF TIMER LAST VALUE

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ADD (HEX)	DESCRIPTION
42-B9	PROGRAMS
BA (51AM-12S) (54AM-12S)	OSD STATE (X,X,X,X,X, CHILD_FRONT, CHILD_AV, NORM ON/OFF)
BA (51AT-15S) (54AT-15S)	OSD STATE BIT 0: PICTURE NORM ON/OFF BIT 1: SCART/AV LOCKED BIT 2: FRONTAL LOCKED BIT 3: ROW 8/30 PERMISS (PROGRAMMED INTERNALLY) BIT 4: PIN NUMBER OPTION (0-NOT APPEAR, 1-APPEAR) BIT 5: CLOCK STATE (PROGRAMMED INTERNALLY) BIT 6: ELIMINATE VERTICAL WHITE BARS IN MENUS BIT 7: X
BB	BKGD USER'S CORRECTION (NOT USED IN THIS MODEL)
BC	BKGD USER'S CORRECTION PRESET VALUE (NORMALIZED) (")
BD	VOLTAGE LIMIT BETWEEN L'-L SYSTEMS (MSB)
BE	VOLTAGE LIMIT BETWEEN L'-L SYSTEMS (LSB)
BF (51AM-12S) (54AM-12S)	HORIZONTAL OSD OFFSET
BF (51AT-15S) (54AT-15S)	HORIZONTAL OSD OFFSET BIT 7: DIRECTION SIGN: (0) INCREASE (1) DECREASE BIT 6: DON'T CARE BIT 5 - BIT 0: OFFSET VALUE
C0	PROG SEARCH SPEED (ALL BANDS) -HIGH NIBBLE COMPLEMENTED-
C1	PROG SEARCH SPEED (UHF BAND) -HIGH NIBBLE COMPLEMENTED-
C2	PROG SEARCH SPEED (VHL BAND) -HIGH NIBBLE COMPLEMENTED-
C3	PROG SEARCH SPEED (VHH BAND) -HIGH NIBBLE COMPLEMENTED-
C4	CHANNEL RANGE IN FACTORY AUTOINSTALL
C5	PASSWORD ON(1)/OFF(0)
C6	PASSWORD FIRST DIGIT
C7	PASSWORD SECOND DIGIT
C8	PASSWORD THIRD DIGIT
C9	PASSWORD FOURTH DIGIT
CA-CF	FREE
DO-FF (51AM-12S) (54AM-12S)	FREE
DO-FF (51AT-15S) (54AT-15S)	LIST STORED PAGES (8 PROGRAMS) (6 BYTES PER PROGRAM)

- The changes introduced are automatically memorized.
- Having finalized adjustments, push MODE button on R/C to exit Service Mode.

■ PIF / AGC Adjustment

1. VCO + AFT Adjustment

1. Connect the output of SSG (Standard Signal Generator) to the tuner IF output terminal.
 - SSG output: 39.5 MHz (CW) ± 5 kHz.
 - SSG output level: approx. 90 dB μ V.
2. Enter into Service Mode.
3. Push CH \wedge until AFT appears.
4. Press \square / \rightarrow button on R/C. Setting is made automatically. During this setting the colour bar shall go from red to yellow. When setting is finished, colour bar disappears and B-STOP (bus stop) is shown on screen.
5. Switch set OFF and ON again, setting is now memorized.

2. RF-AGC Cut-In Adjustment (I2C BUS)

1. Receive the "COLOUR BAR" signal (Channel E-12).
 - Signal strength: 55 dB μ V.
2. Enter into Service Mode.
3. Push CH \wedge until AGC appears.
4. Press \square / \rightarrow button on R/C. Setting is made automatically. During this setting the colour bar shall go from red to yellow. When setting is finished, colour bar disappears and B-STOP (bus stop) is shown on screen.
5. Switch set OFF and ON again, setting is now memorized.

■ Screen Adjustment

3. Focus Adjustment

1. Apply mains voltage of 240 V AC/50 Hz to TV.
2. Receive Phillips pattern signal to a level between 60 and 80 dB μ V.
3. Set contrast to 10/10, brightness to 5/10 and colour 0/10.
4. Adjust focus potentiometer to obtain maximum definition.

4. G2 Adjustment

1. Apply mains voltage of 240 V AC/50 Hz to TV.
2. Receive black screen signal to a level between 60 and 80 dB μ V.
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.

■ CHILD LOCK CANCEL

The following process describes how to cancel actual password (PIN) when the customer forgets code.

1. Switch ON TV set.
2. Press buttons ∇ \triangle on TV and \square / \rightarrow on R/C simultaneously.
3. Press MODE button on R/C to input menu.
4. Using buttons \wedge CH ∇ move to \rightarrow position.
5. Press MODE button again.
6. Select PIN and input new PIN (Please do not forget it)
7. Select EXIT and press MODE button again.

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GEOMETRY ADJUSTMENT PROCEDURE

1. "BL PHA".

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

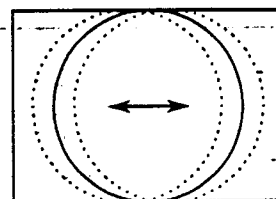


Fig. 1

2. "VER PO".

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

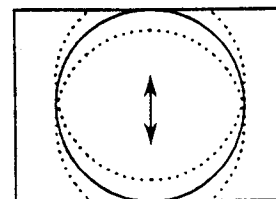


Fig. 2

3. "VER AM".

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

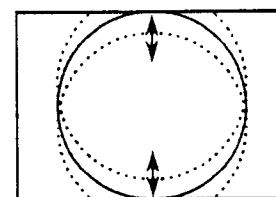


Fig. 3

4. "VER SM".

- Receive Philips pattern signal.
- When $\triangle\wedge$ button is pressed, upper picture scanning decreases and lower picture scanning increases.
- When $\triangle\vee$ 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).

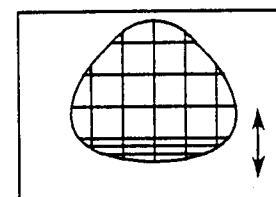


Fig. 4

COLOUR ADJUSTMENT

5. "LUMA D".

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

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

6. "GAIN R", "GAIN G", "GAIN B".

- Adjust G2.
- Tune in white card.
- Adjust colour to minimum.
- Position colourmeter in the center of screen.
- Using brightness and contrast buttons, select a luminance of ≈ 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.

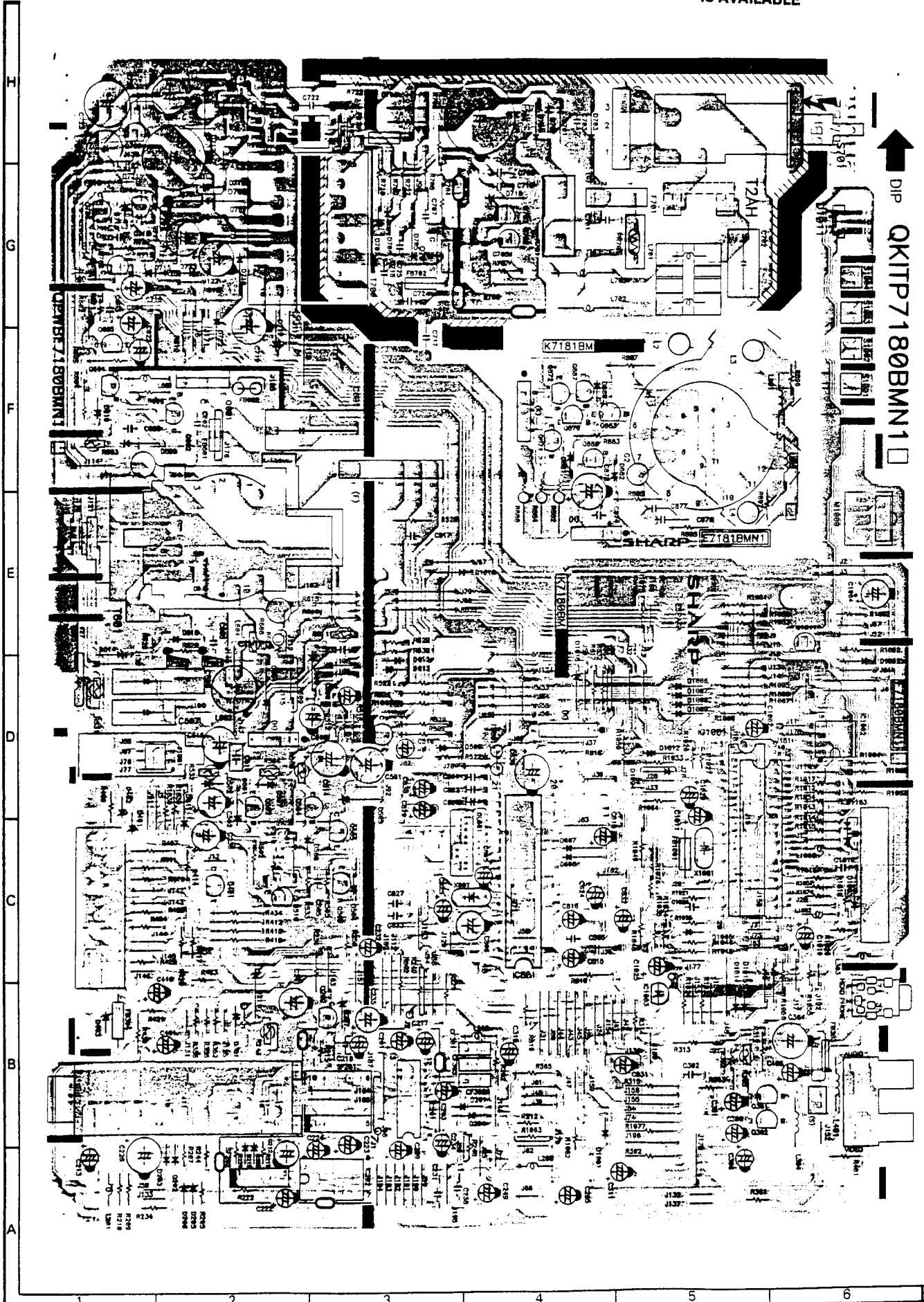
NOTE:

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

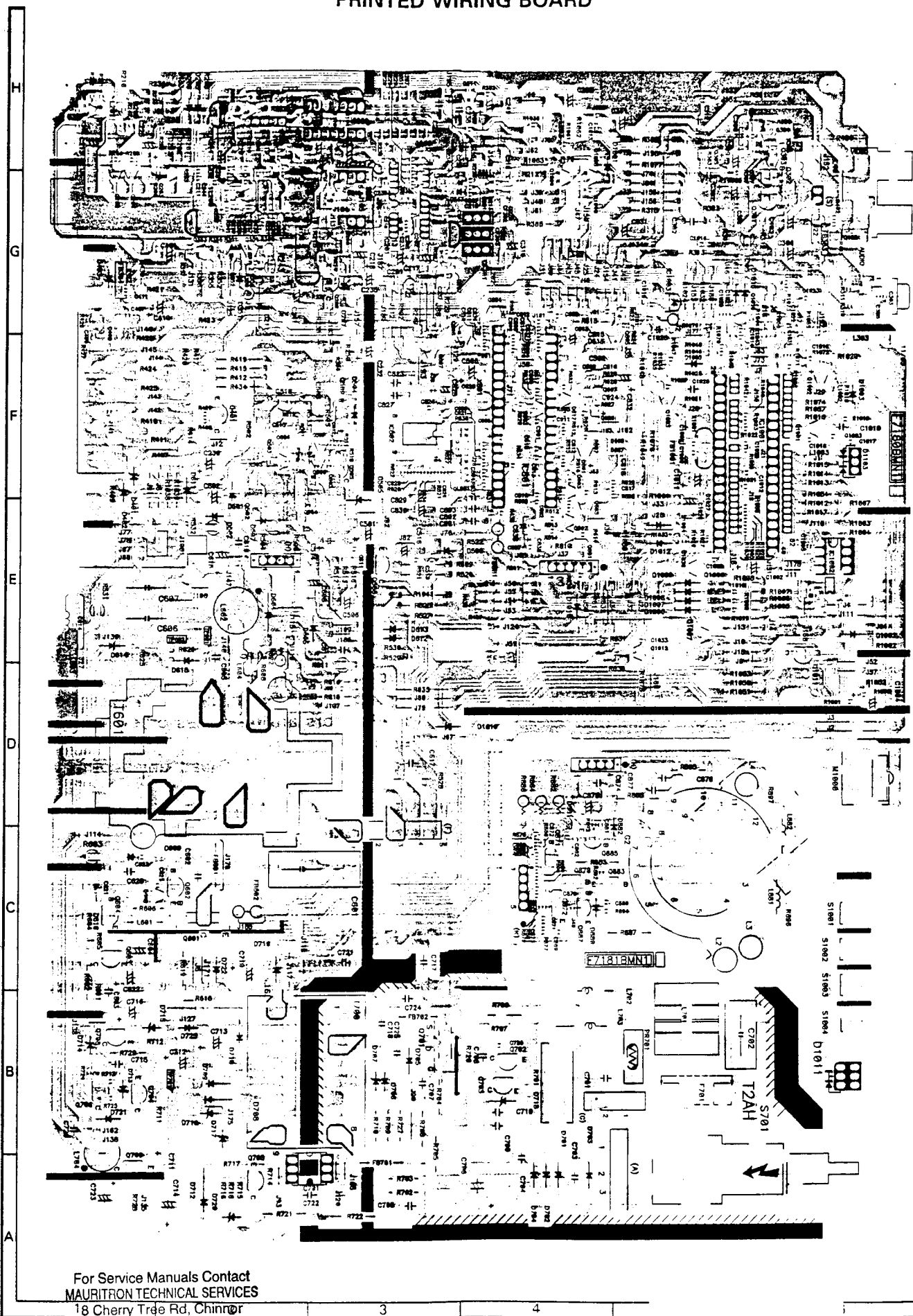
51AT -15H
51AT -15IR

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PRINTED WIRING BOARD



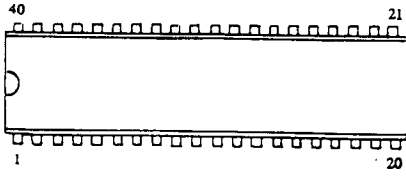
PRINTED WIRING BOARD



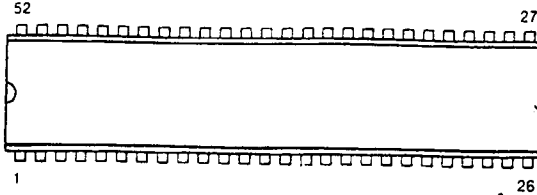
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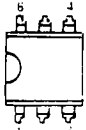
SOLID STATE DEVICE BASE DIAGRAM



RH-IX1573BMZZ



RH-IX1578BMN1



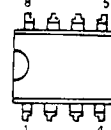
RH-FX0101BMZZ



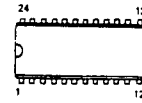
RH-IX0037CEZZ



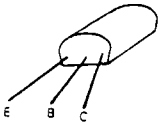
**RH-IX1570BMZZ
(SMD COMPONENT)**



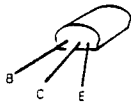
**CH-IX1463CJHD
CH-IX1463CJI9**



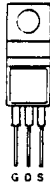
RH-IX1575BMZZ



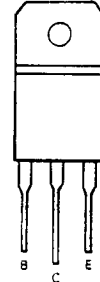
**RH-TX0102BMZZ
RH-TX0104BMZZ
RH-TX0105BMZZ
RH-TX0106BMZZ
RH-TX0130BMZZ**



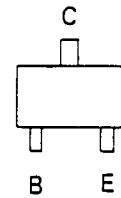
**RH-TX0108BMZZ
RH-TX0110BMZZ
RH-TX0112BMZZ
RH-TX0118BMZZ
RH-TX0124BMZZ
RH-TX0131BMZZ**



RH-TX0128BMZZ



RH-TX0132BMZZ



**VS2SA1037KQ-1
VS2SC2412KQ-1
(SMD COMPONENT)**

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 are μF , unless otherwise noted ($P=\mu\mu\text{F}$).
4. All chip resistors are 1/16 watt, unless otherwise noted.

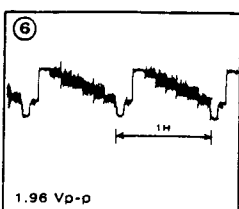
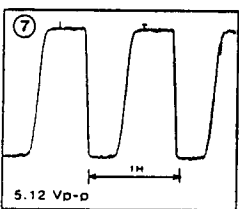
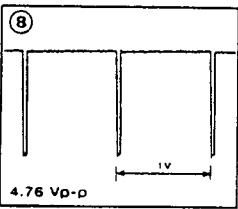
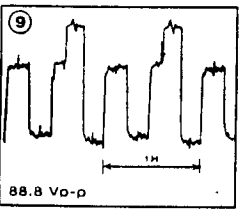
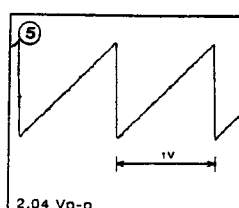
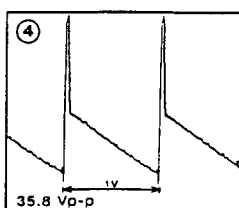
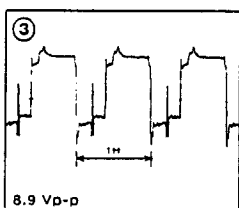
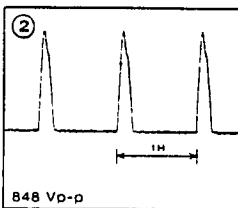
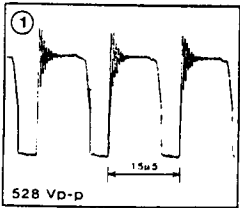
WAVEFORM MEASUREMENT

CONDITIONS:

Colour bar generator signal of 70 dB from RF input.

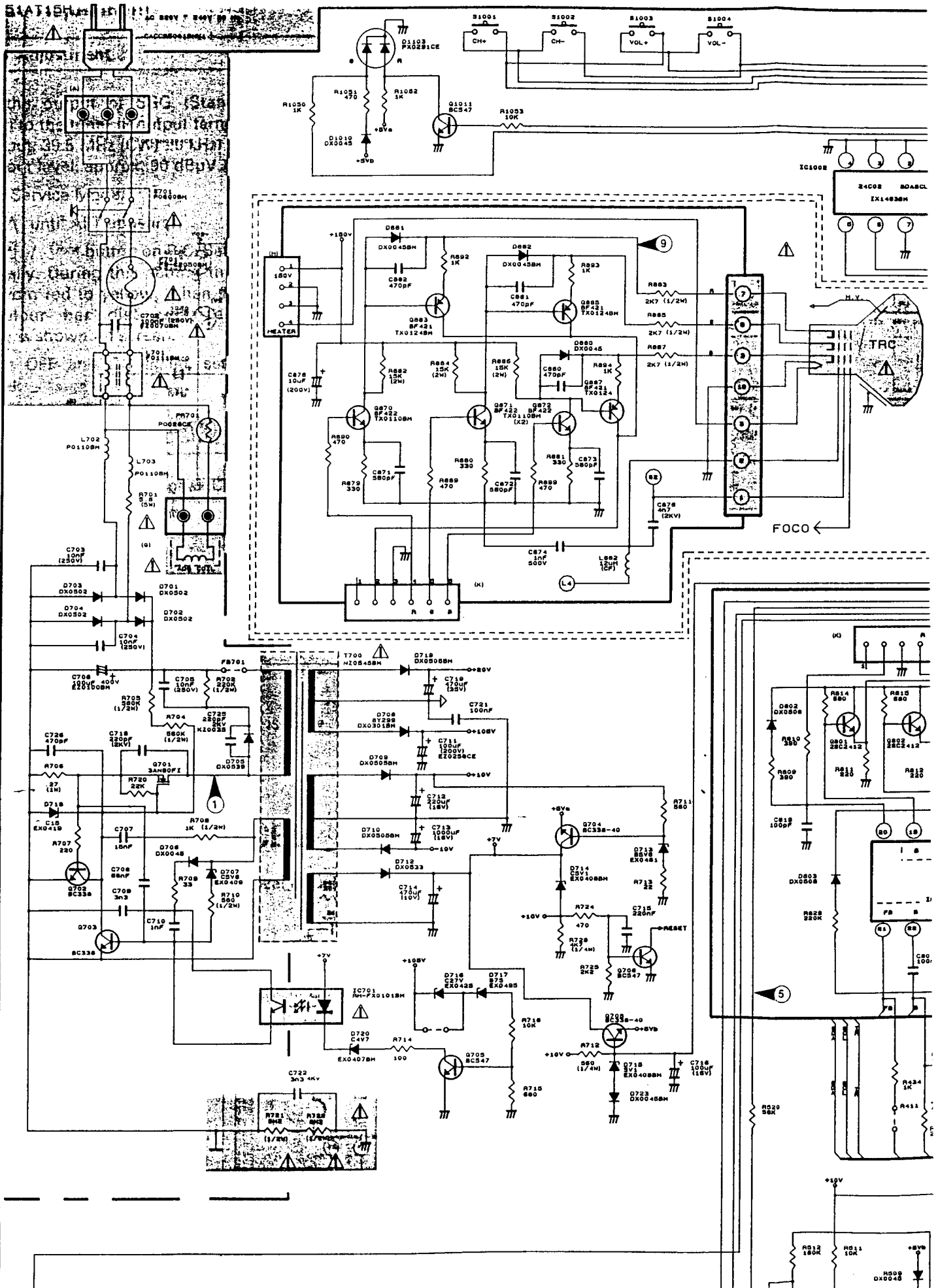
CAUTION:

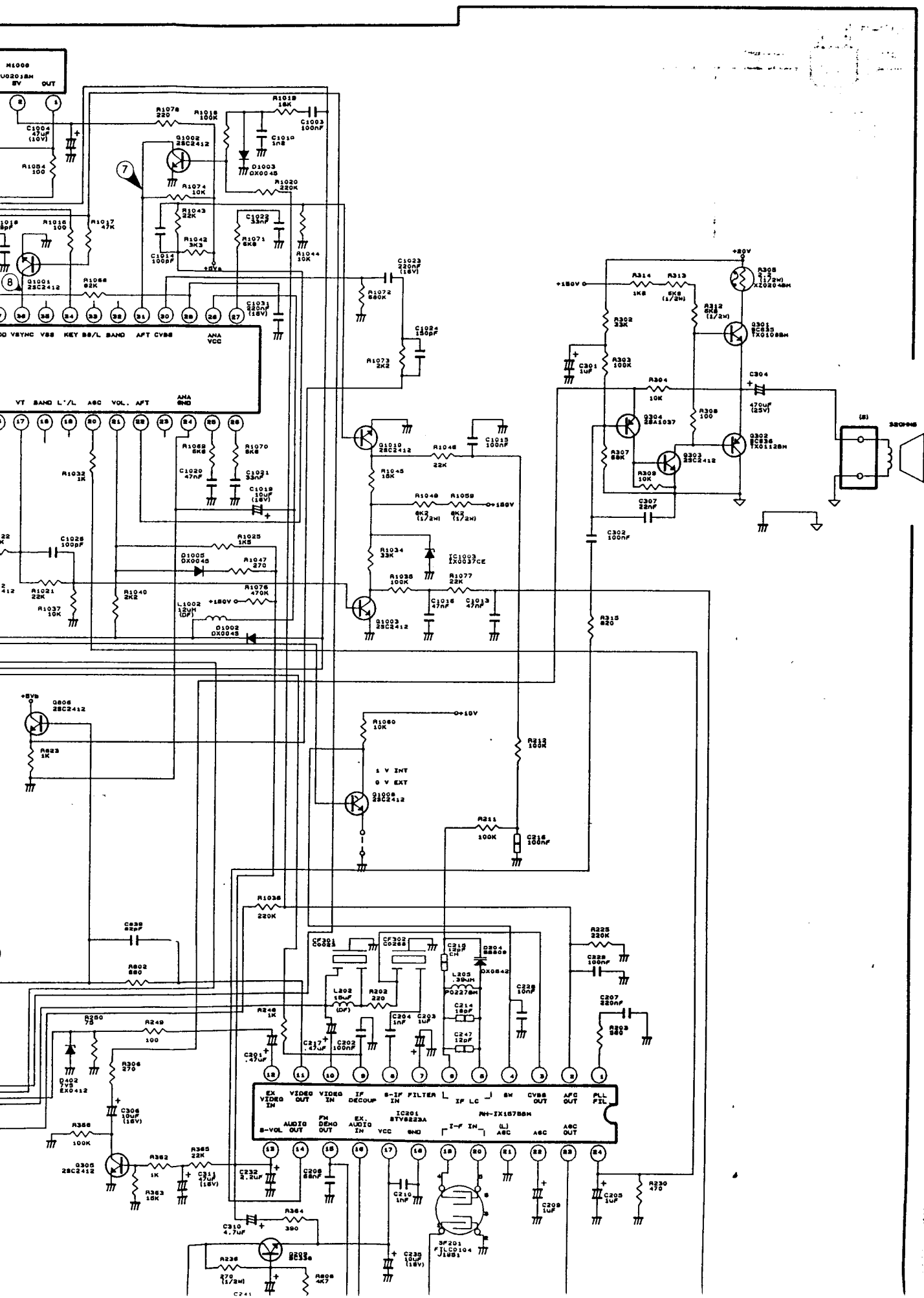
This circuit diagram is original one, therefore there may be a slight difference from yours.

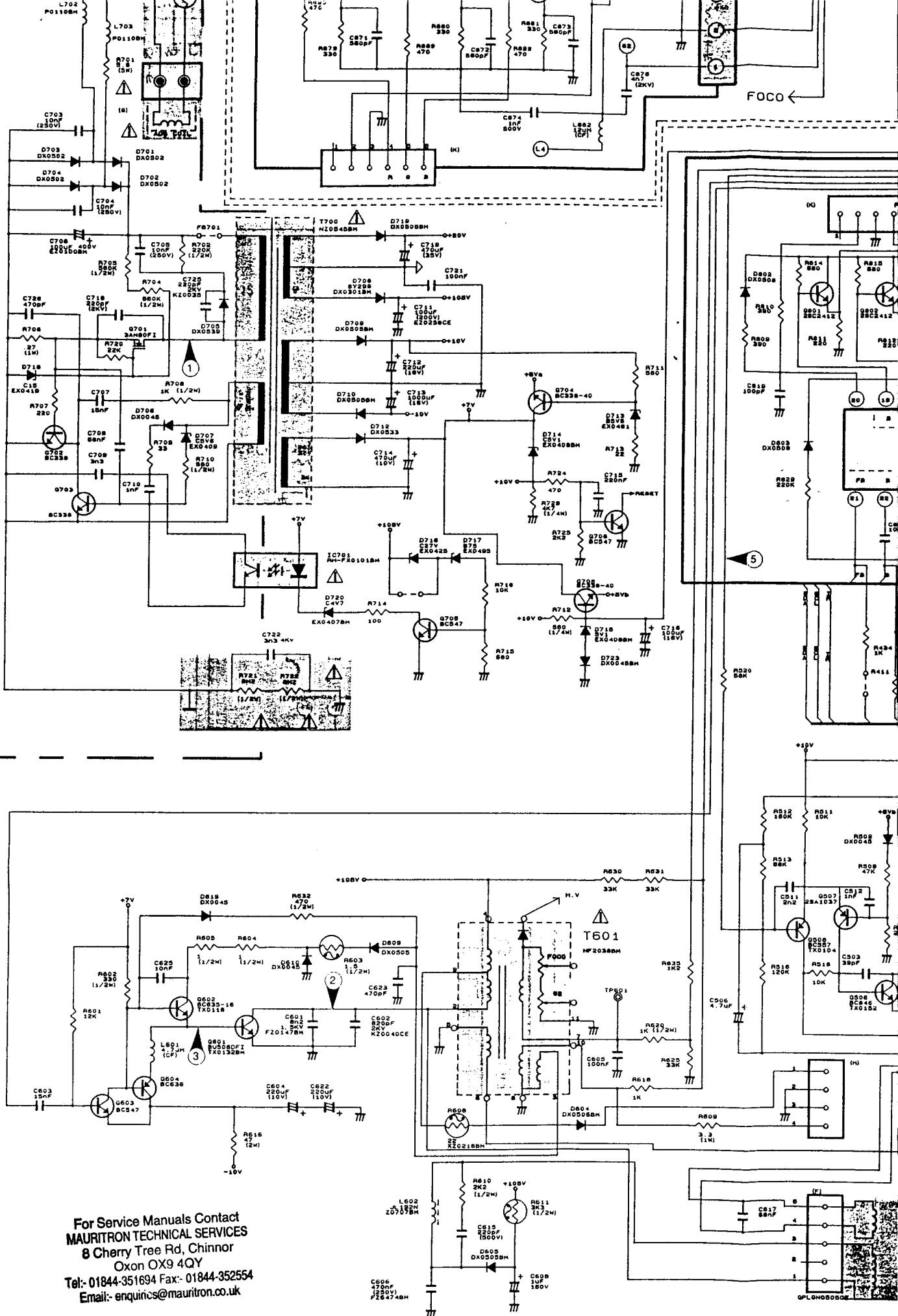


SCHEMATIC DIAGRAM (51AT-15H)

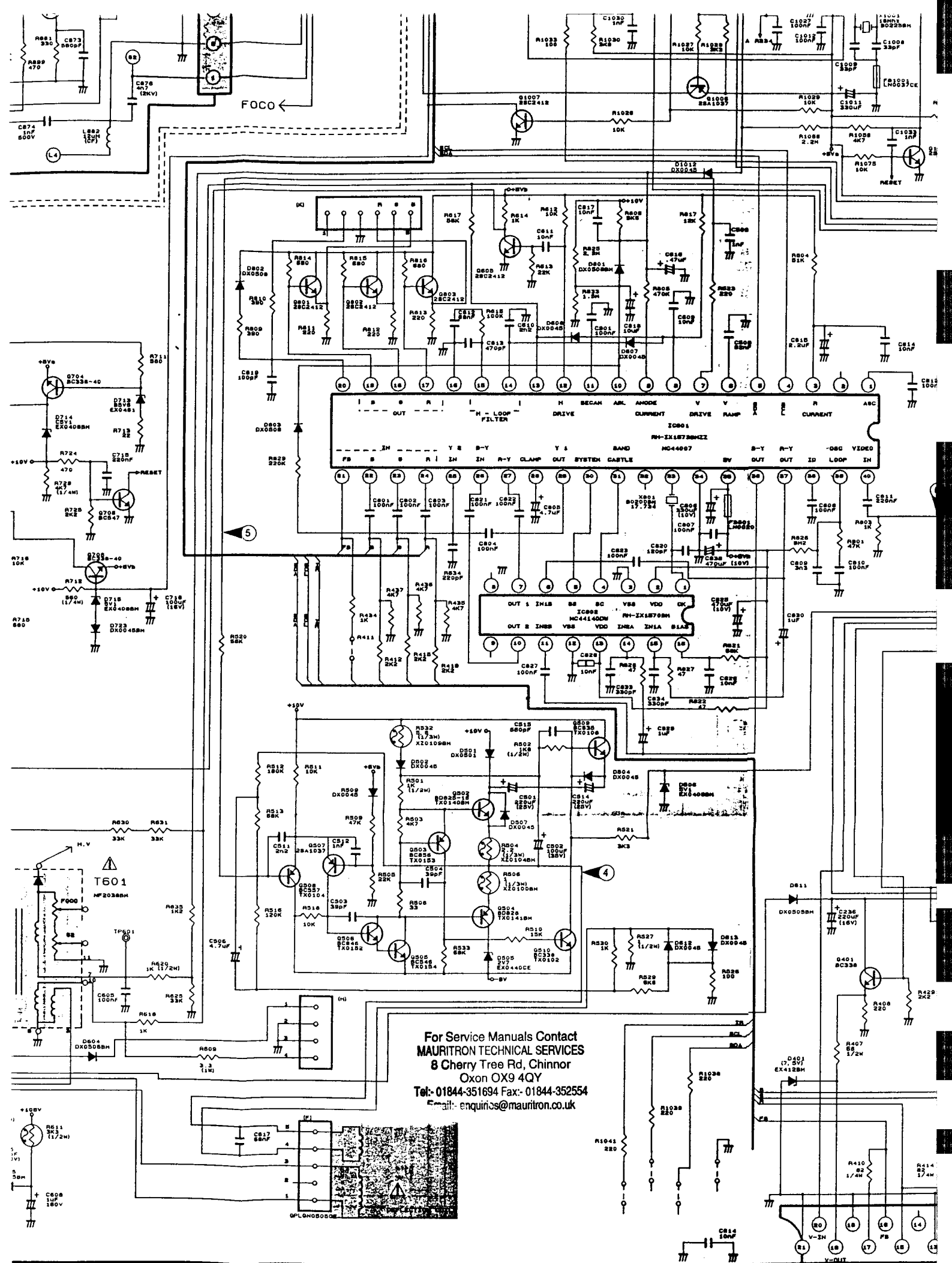
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MAURITRON TECHNICAL SERVICES
 8 Cherry Tree Rd. Chinnor
 Oxon OX9 4QY
 Tel: 01844-351694 Fax: 01844-352554
 Email: enquiries@mauritron.co.uk

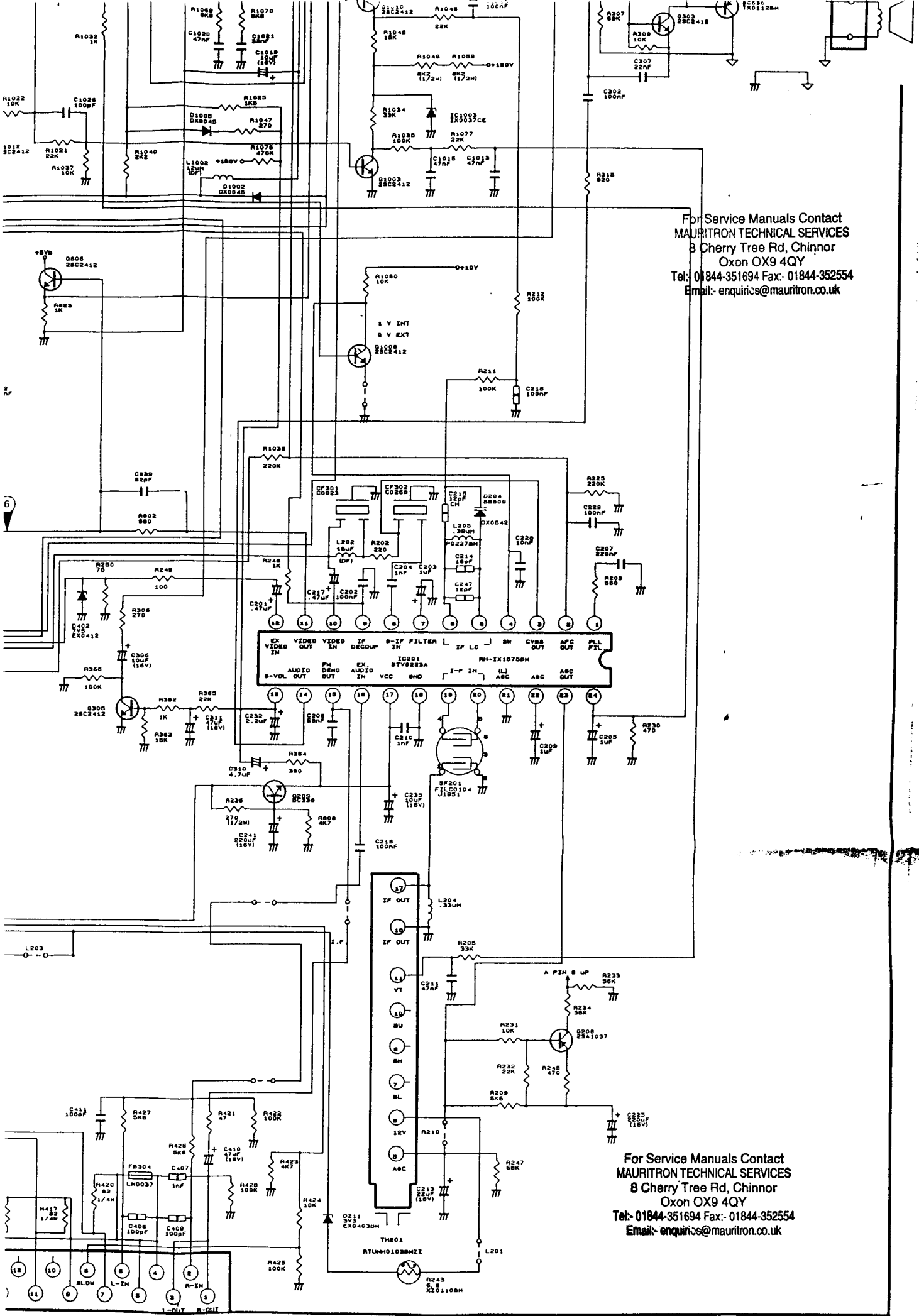






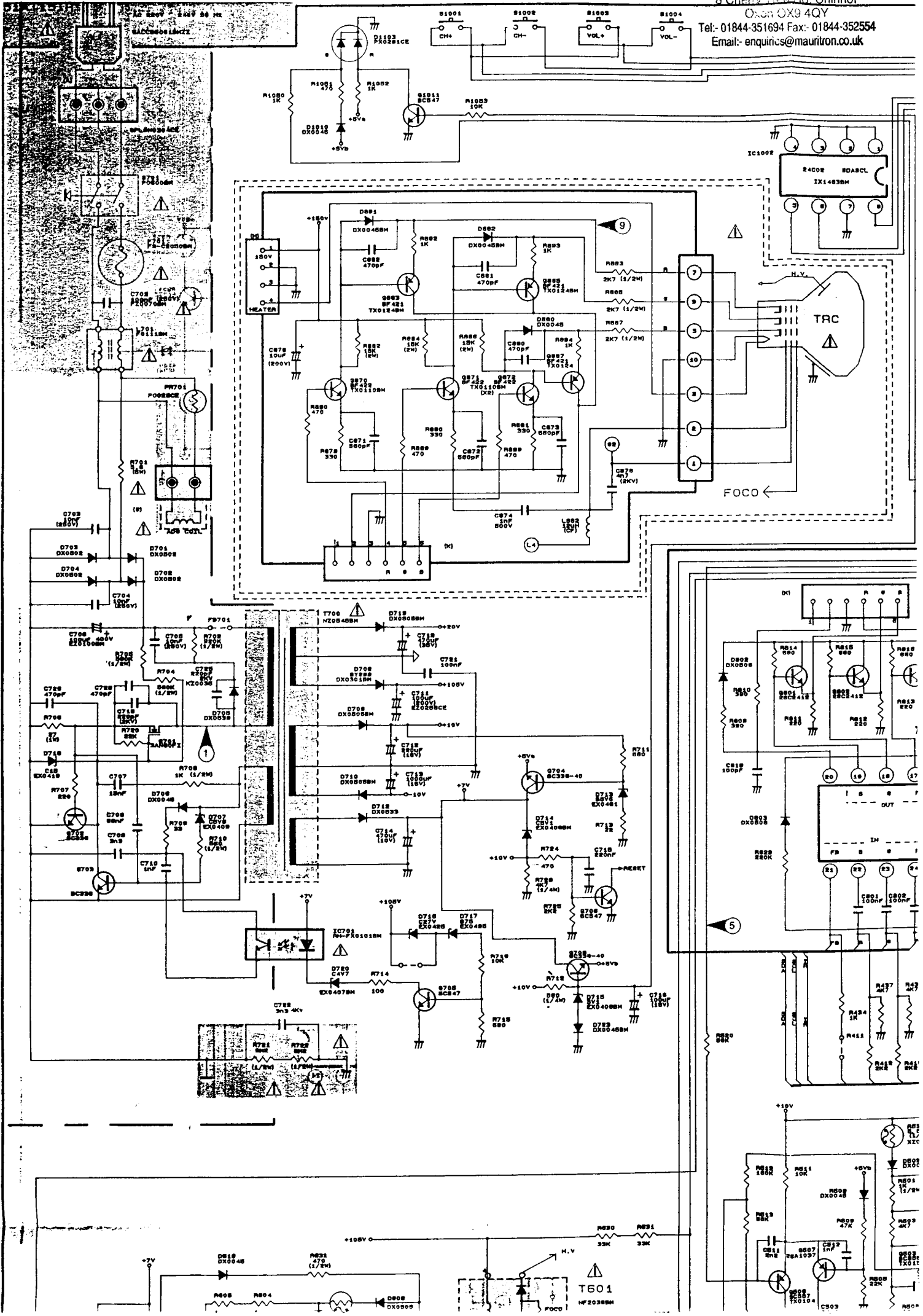
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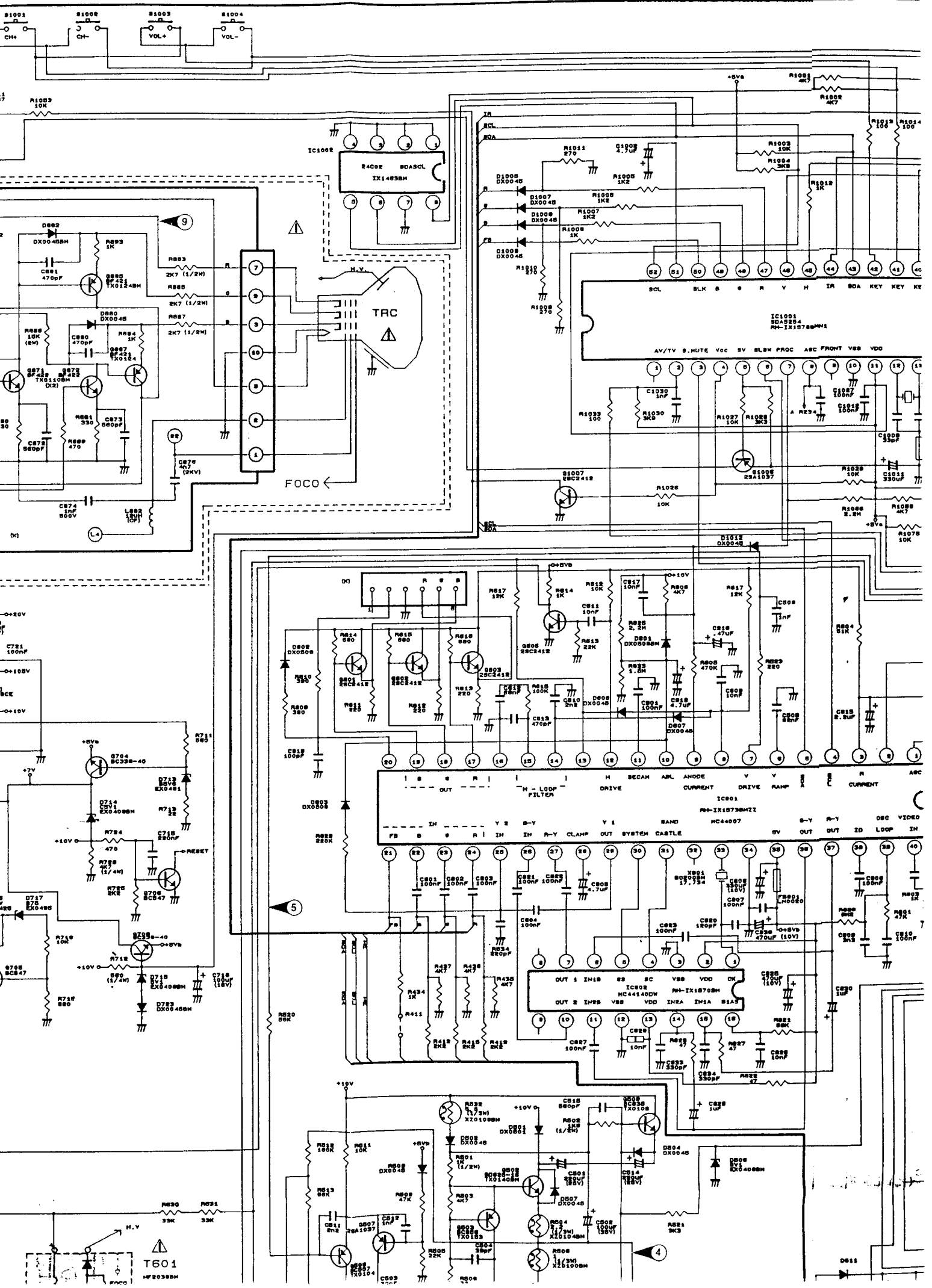




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IC100R
R4C0R BDASCL
IX1483BM

TRC

FOCO ←

IC1001
2DA284
M-IX1878M

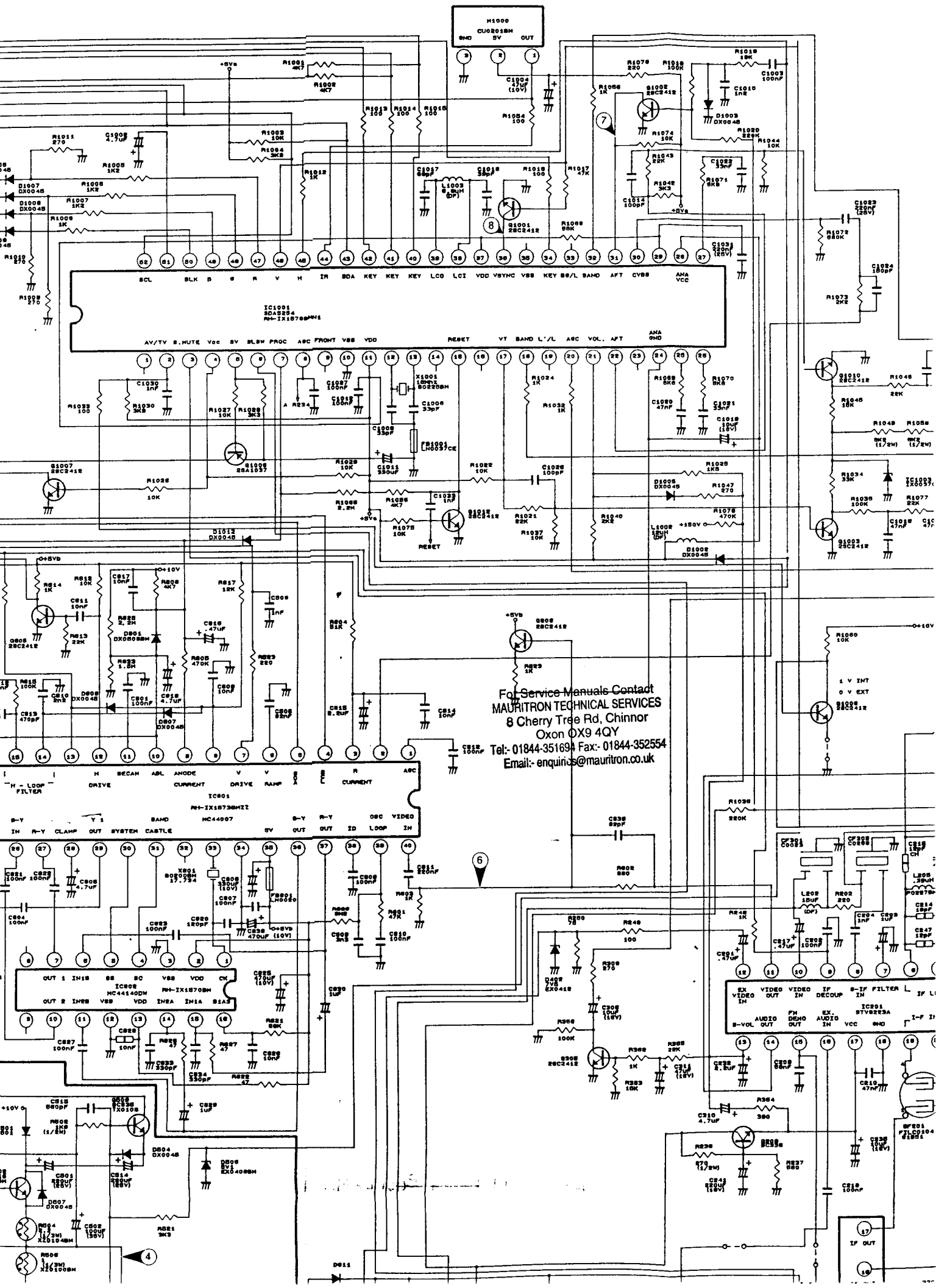
IC1002
IX1878M

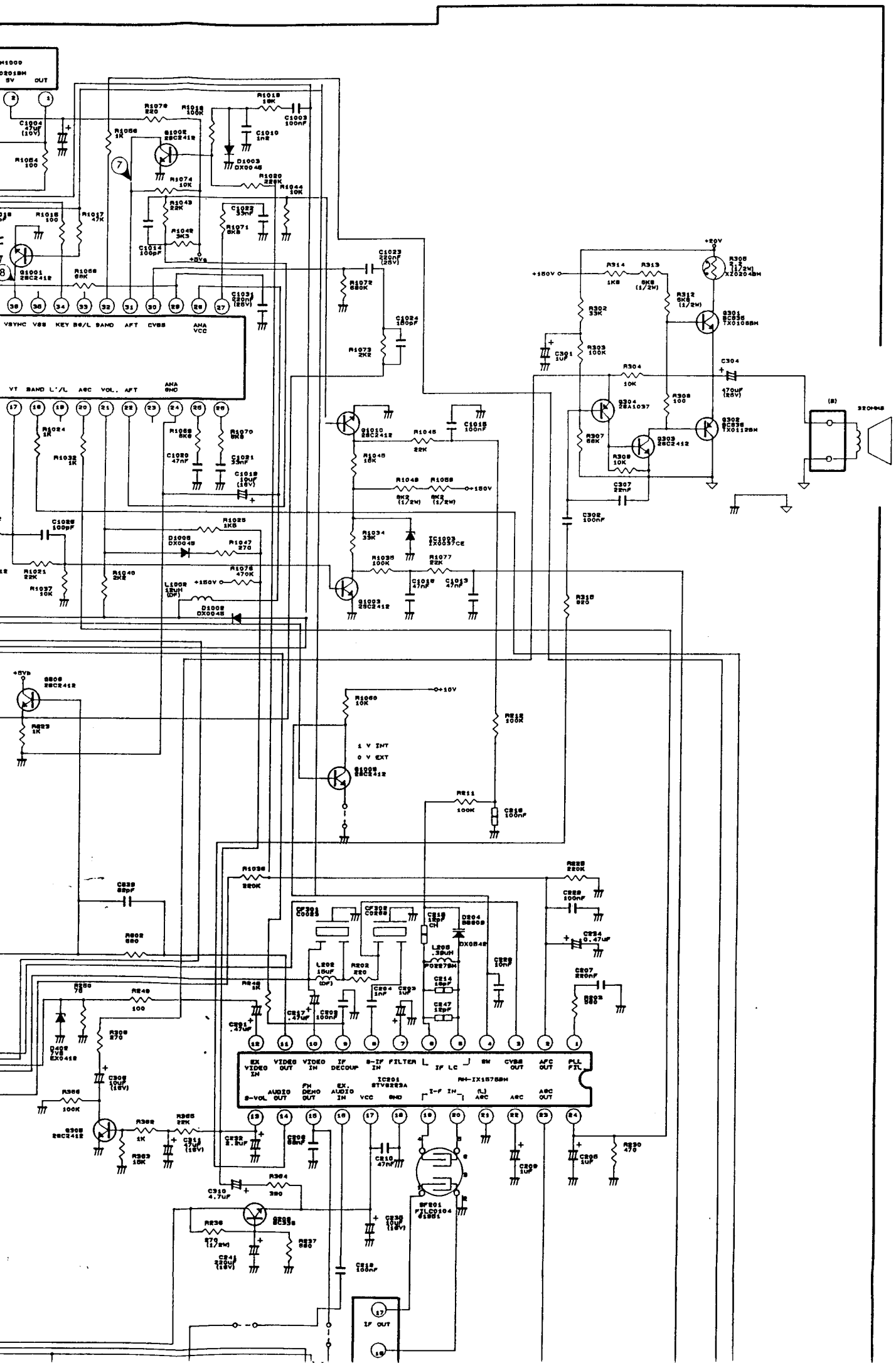
IC1003
IX1878M

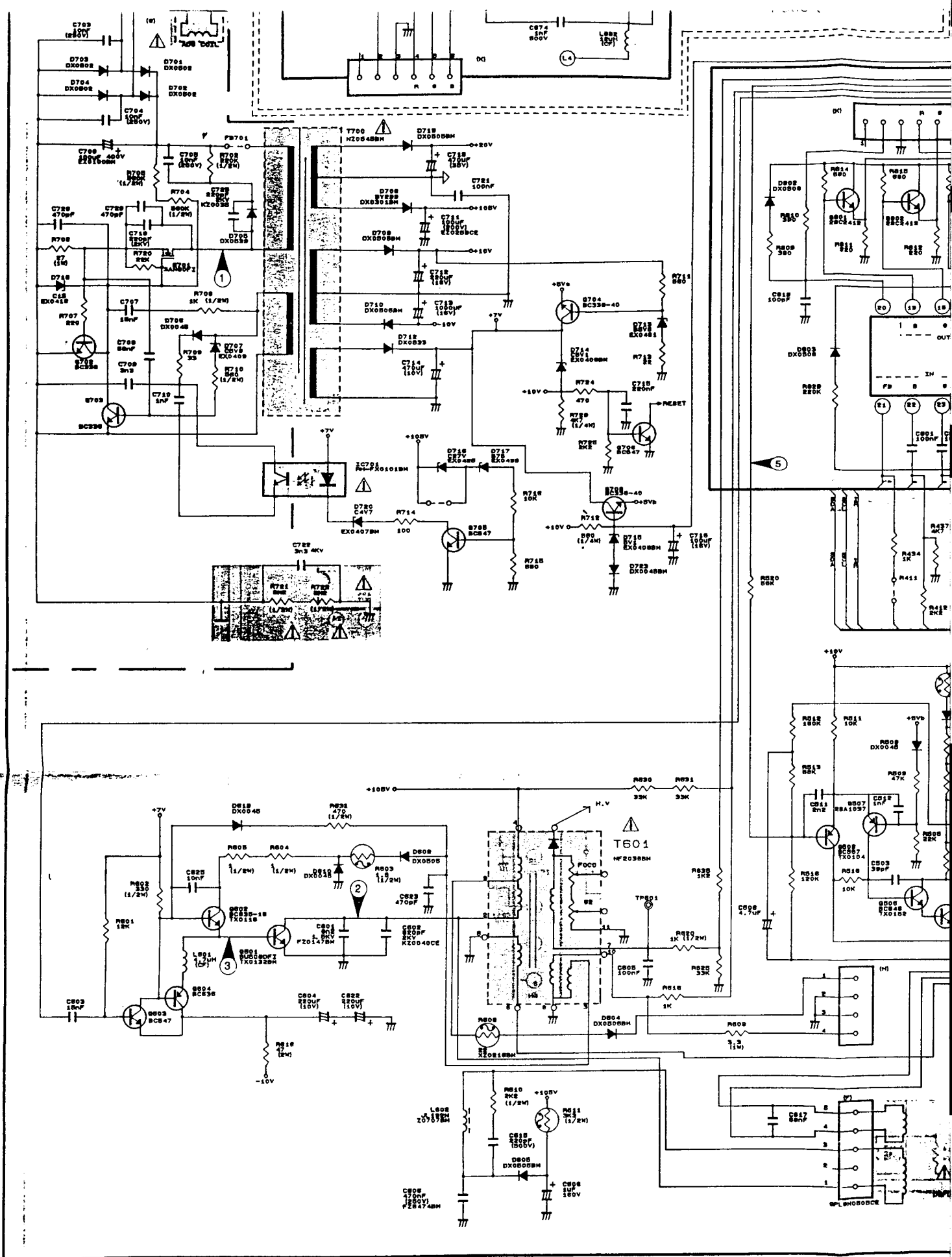
IC1004
MC44007

IC1005
MC44140M

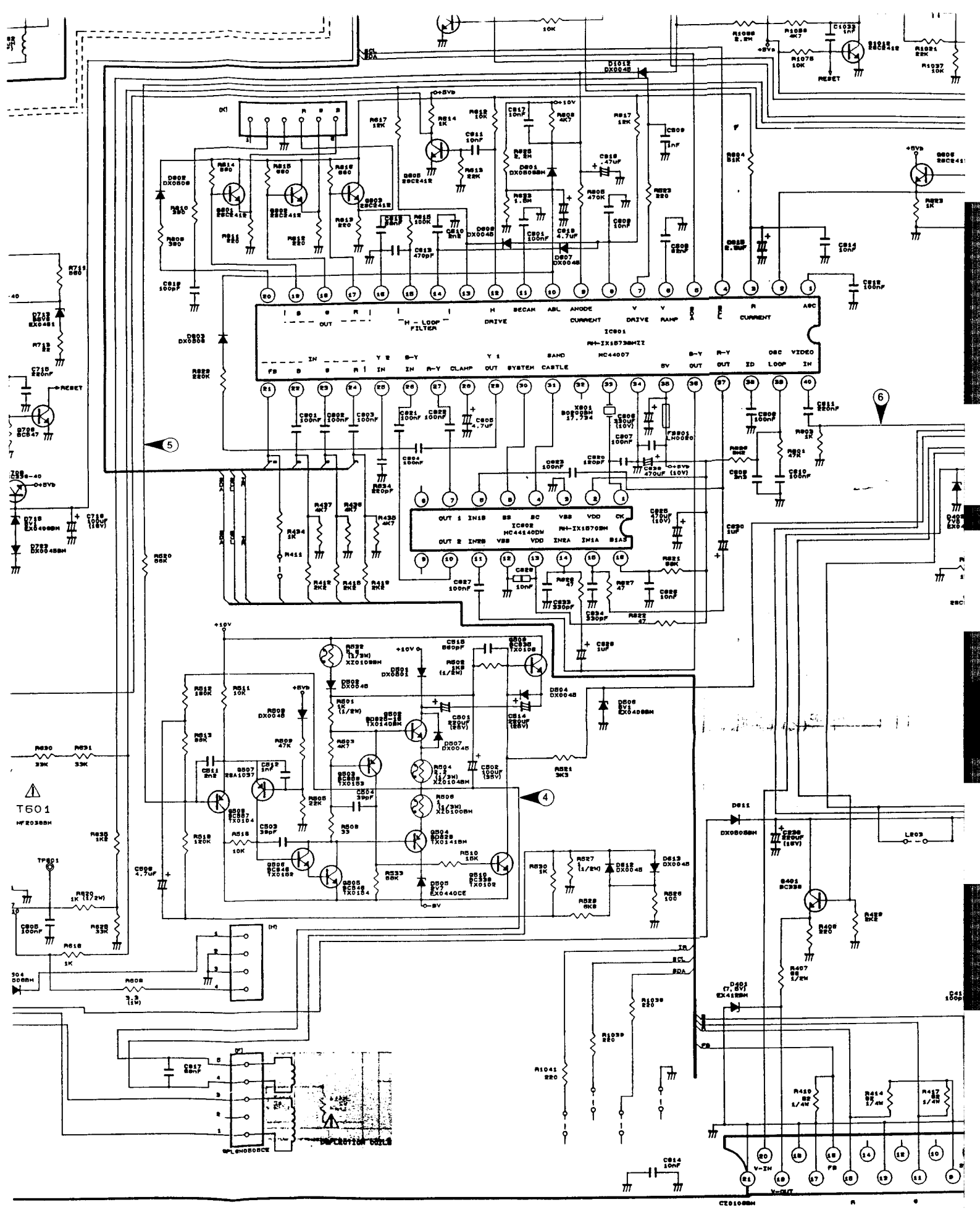
T601
M-2038BM

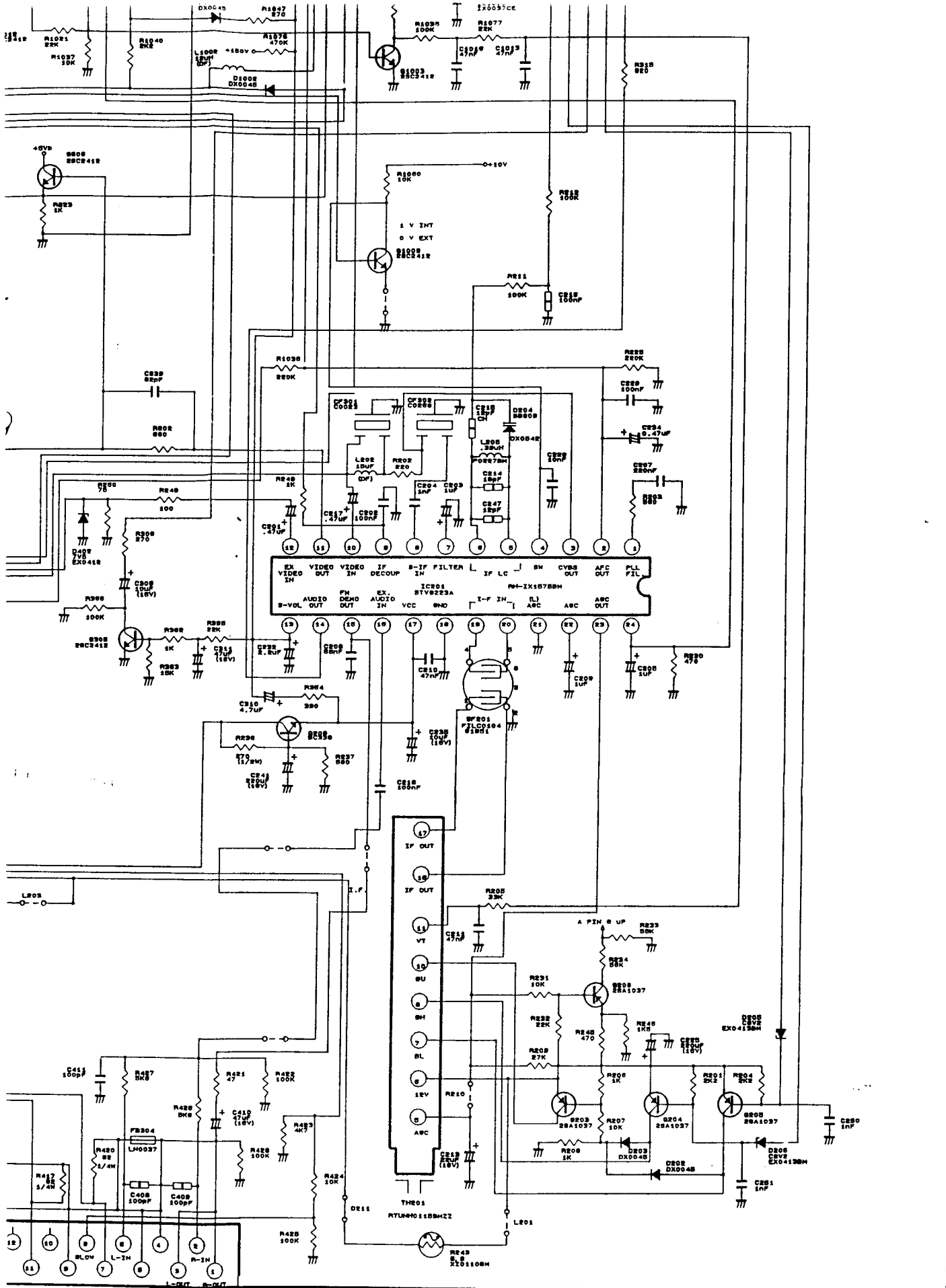






1 2 3 4 5 6 7





51AT-15H
51AT-15IR

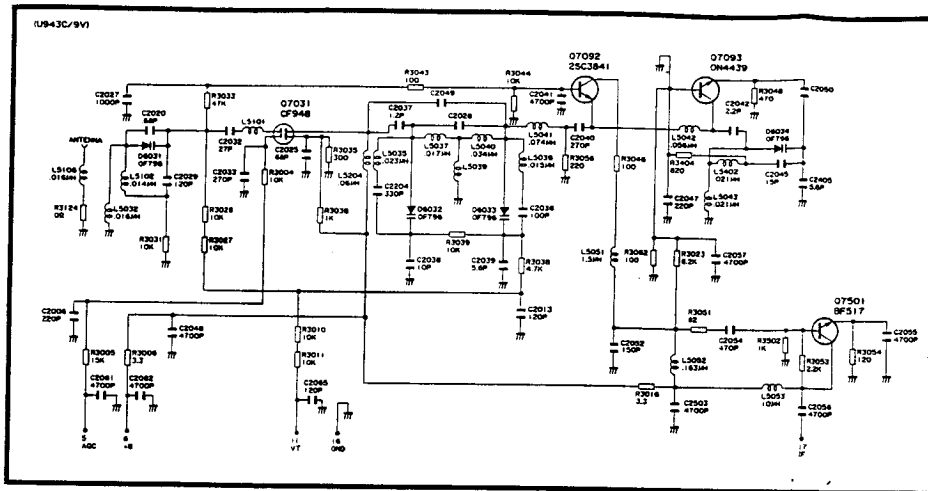
51AT-15H
51AT-15IR

SCHEMATIC DIAGRAMS

Tuner (51AT-15H)

NOTE: The parts here shown are supplied as an assembly but not independently.

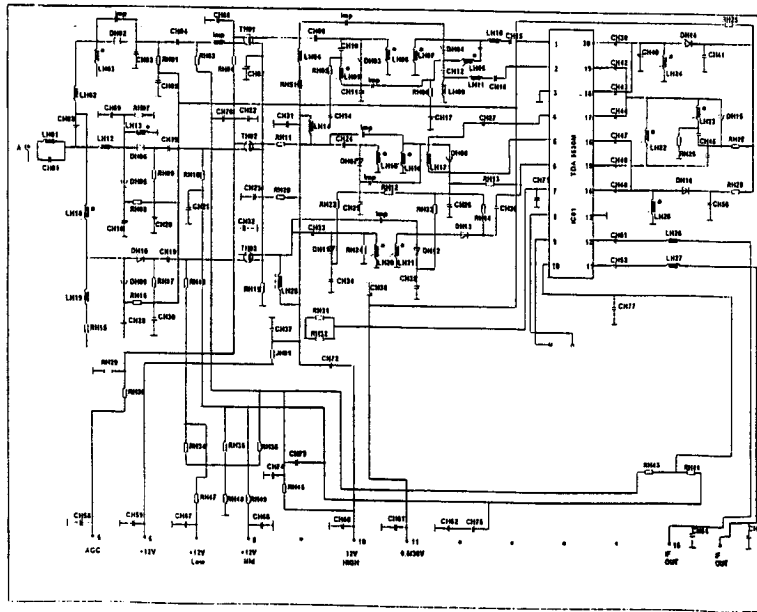
RTUNH0103BMZZ



Tuner (51AT-15IR)

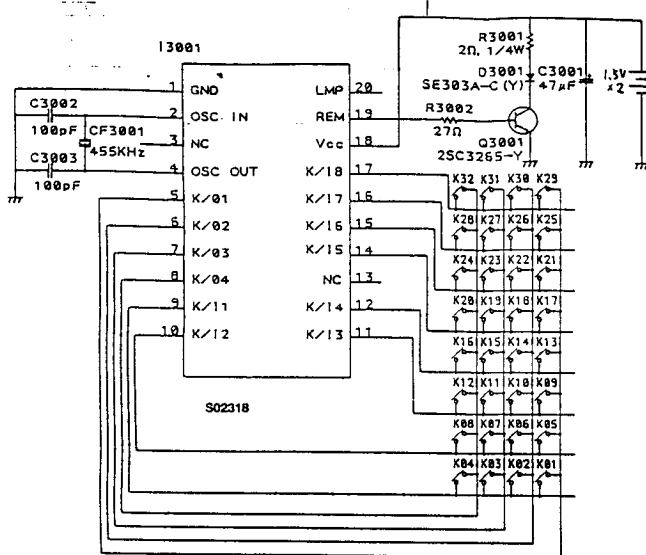
NOTE: The parts here shown are supplied as an assembly but not independently.

RTUNH0115BMZZ



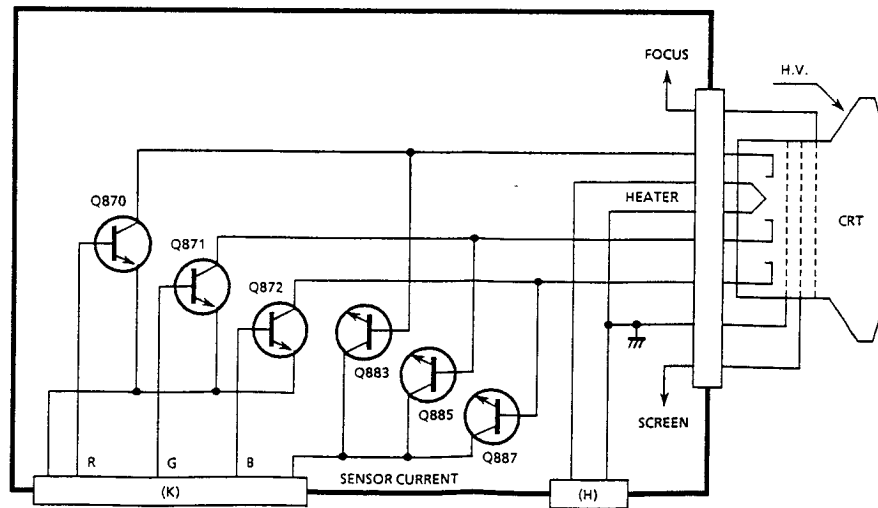
INFRARED REMOTE CONTROL UNIT SCHEMATIC DIAGRAM

RRMCG1051BMSA



KEY No.	FUNCTION
2	TEXT/MIX
4	CALL
7	MODE
8	MUTE
9	BLUE
10	GREEN
12	RED
13	VOL DOWN
14	-/-
15	0
17	VOL UP
18	9
19	8
20	7
21	CH DOWN
22	6
23	5
24	4
25	CH UP
26	3
27	2
28	1
29	YELLOW
31	TV/VIDEO
32	POWER

BLOCK DIAGRAM



PWB-B

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51AT -15H
51AT -15IR

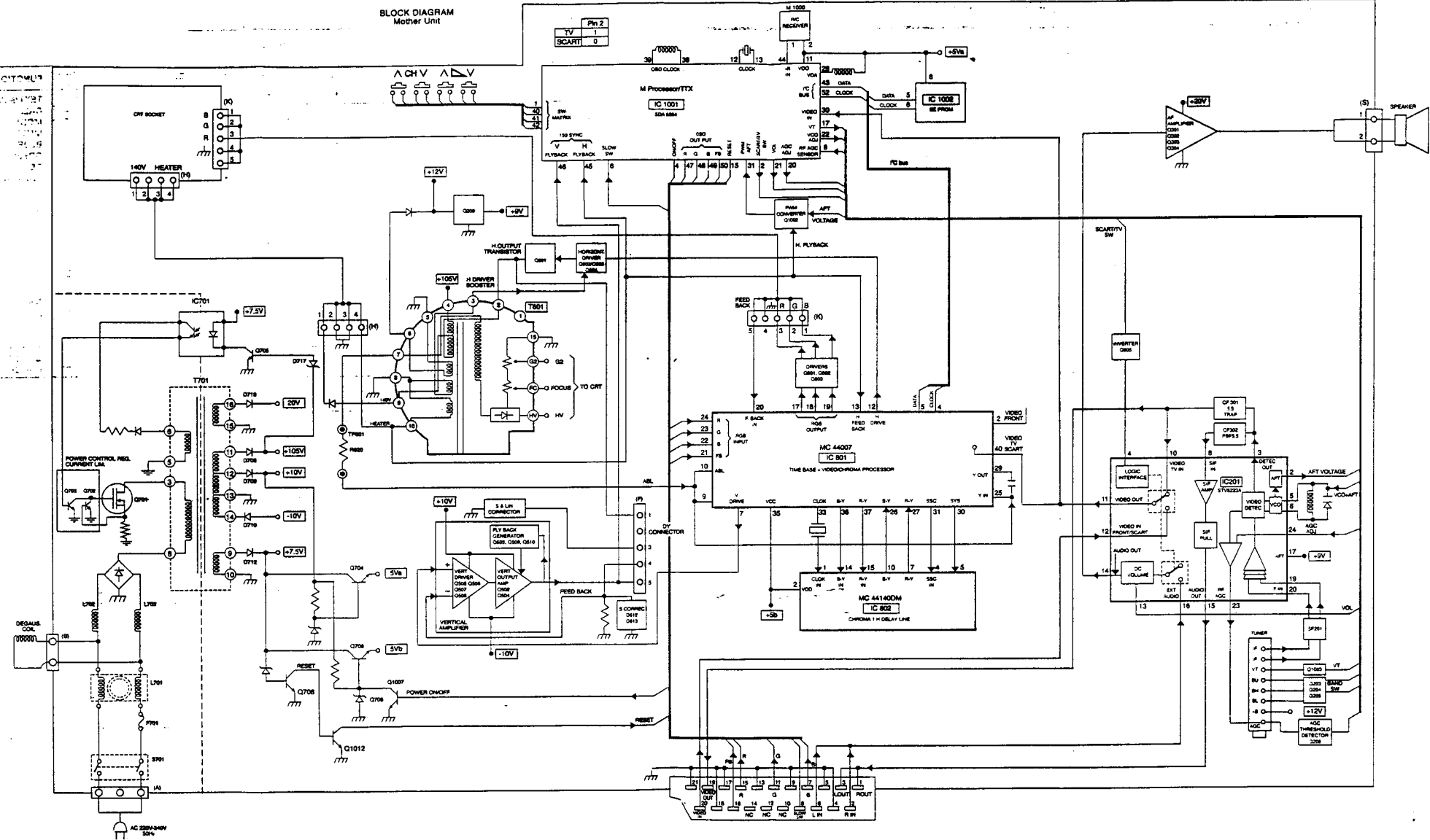
51AT -15H
51AT -15IR

BLOCK DIAGRAM

MARBAIG BITNEMENOS TWIL AD HTV AD AT NIBR CBRALFIM

AVARDAD DTA 11108

BLOCK DIAGRAM
Mother Unit



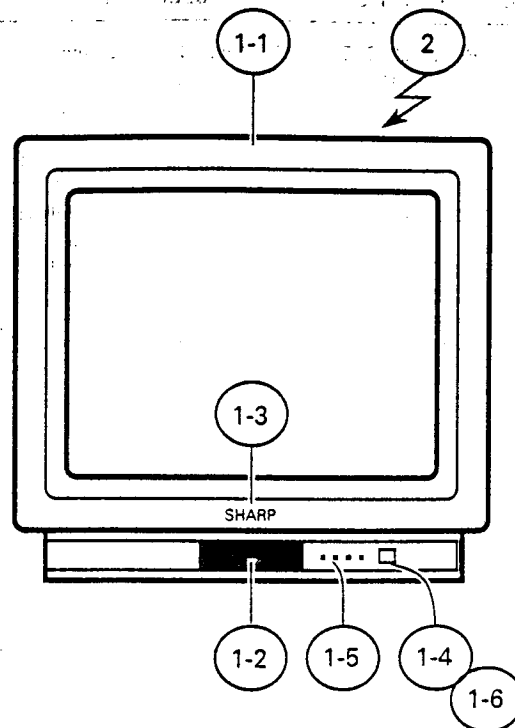
PWB-A

PARTS LIST					REF. NO.	PART NO.	★	DESCRIPTION	CODE
<p align="center">PARTS REPLACEMENT</p> <p>Replacement parts which have special safety characteristics are identified in this manual. Electrical components having such features are identified by "△" in the Replacement Parts Lists. The use of a substitute replacement part which does not have the same safety characteristics as the factory recommended is not permitted. Replacement parts not shown in this service manual may create shock, fire or other hazards.</p> <p align="center">"HOW TO ORDER REPLACEMENT PARTS"</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>					TRANSISTORS				
					Q 0203	VS2SA1037KQ-1	J	2SA1037 (51AT-15IR)	AA
<p align="center">PICTURE TUBE</p> <p>△ VB51EAL15511N S CRT 21" CG △ RCILG0408BMZZ S Degaussing Coil AP</p>					Q 0204, 0205, 0208			(51AT-15IR) (51AT-15IR)	
					Q 0209	RH-TX0102BMZZ	S	BC338	AB
<p align="center">PRINTED WIRING BOARD ASSEMBLIES</p> <p>PWB-A DUNTK7180CJV5 S Mother Unit 51AT-15H - DUNTK7180CJW2 S Mother Unit 51AT-15IR - PWB-B DUNTK7181BMV5 S CRT Socket Unit 51AT-15H - DUNTK7181BMW2 S CRT Socket Unit 51AT-15IR -</p>					Q 0301	RH-TX0108BMZZ	S	BC 635	AC
					Q 0302	RH-TX0112BMZZ	S	BC 635	AB
<p align="center">MOTHER UNIT</p> <p>PWB-A</p> <p align="center">TUNER</p> <p align="center">NOTE: The parts shown here are supplied as an assembly but not separately.</p> <p>RTUNH0103BMZZ S Tuner 51AT-15H BB RTUNH0115BMZZ S Tuner 51AT-15IR BE</p>					Q 0303	VS2SC2412KQ-1	J	2SC2412	AA
					Q 0304	VS2SC1037KQ-1	J	2SA1037	AA
<p align="center">INTEGRATED CIRCUITS</p> <p>IC 0201 RH-IX1575BMZZ S STV8223A AQ △ IC 0701 RH-FX0101BMZZ S Opto Coupler AE IC 0801 RH-IX1573BMZZ S MC 44007 BA IC 0802 RH-IX1570BMZZ S MC 44140DW AP IC 1001 RH-IX1578BMN1 S SDA2554 BD IC 1002 CH-IX1463CJHD S NVM 51AT15S AK CH-IX1463CJ19 S NVM 51AT15IR AK IC 1003 RH-IX0037CEZZ S UPC574J33V AD</p>					Q 0305	VS2SC2412KQ-1	J	2SC2412	AA
					Q 0401	RH-TX0102BMZZ	S	BC 338	AB
<p align="center">DIODES</p> <p>D 0202, 0203 RH-DX0045BMZZ S 1N4148 (51AT-15IR) AA (51AT-15IR)</p> <p>D 0204 RH-DX0542BMZZ S BB 809 AD D 0205, 0206 RH-EX0413BMZZ S BZX79C8V2 (51AT-15IR) AB (51AT-15IR)</p> <p>D 0211 RH-EX0403BMZZ S BZX79C3V3 AA D 0351 RH-DX0045BMZZ S 1N4148 AA D 0401, 0402 RH-EX0412BMZZ S BZX79C7V5 AB</p>					Q 0502	RH-TX0140BMZZ	S	BD 825-16	AC
					Q 0503	RH-TX0153BMZZ	S	BC 856	AB
<p align="center">MOTHER UNIT</p> <p>PWB-A</p> <p align="center">TUNER</p> <p align="center">NOTE: The parts shown here are supplied as an assembly but not separately.</p> <p>RTUNH0103BMZZ S Tuner 51AT-15H BB RTUNH0115BMZZ S Tuner 51AT-15IR BE</p>					Q 0504	RH-TX0141BMZZ	S	BD 828	AC
					Q 0505	RH-TX0154BMZZ	S	BC 546	AA
<p align="center">INTEGRATED CIRCUITS</p> <p>IC 0201 RH-IX1575BMZZ S STV8223A AQ △ IC 0701 RH-FX0101BMZZ S Opto Coupler AE IC 0801 RH-IX1573BMZZ S MC 44007 BA IC 0802 RH-IX1570BMZZ S MC 44140DW AP IC 1001 RH-IX1578BMN1 S SDA2554 BD IC 1002 CH-IX1463CJHD S NVM 51AT15S AK CH-IX1463CJ19 S NVM 51AT15IR AK IC 1003 RH-IX0037CEZZ S UPC574J33V AD</p>					Q 0506	RH-TX0152BMZZ	S	BC 846	AA
					Q 0507	VS2SC1037KQ-1	J	2SA1037	AA
<p align="center">MOTHER UNIT</p> <p>PWB-A</p> <p align="center">TUNER</p> <p align="center">NOTE: The parts shown here are supplied as an assembly but not separately.</p> <p>RTUNH0103BMZZ S Tuner 51AT-15H BB RTUNH0115BMZZ S Tuner 51AT-15IR BE</p>					Q 0508	RH-TX0143BMZZ	S	BC 557	AA
					Q 0509	RH-TX0108BMZZ	S	BC 635	AC
<p align="center">MOTHER UNIT</p> <p>PWB-A</p> <p align="center">TUNER</p> <p align="center">NOTE: The parts shown here are supplied as an assembly but not separately.</p> <p>RTUNH0103BMZZ S Tuner 51AT-15H BB RTUNH0115BMZZ S Tuner 51AT-15IR BE</p>					Q 0510	RH-TX0102BMZZ	S	BC 338	AB
					Q 0601	RH-TX0132BMZZ	S	BU508DFI	AM
<p align="center">MOTHER UNIT</p> <p>PWB-A</p> <p align="center">TUNER</p> <p align="center">NOTE: The parts shown here are supplied as an assembly but not separately.</p> <p>RTUNH0103BMZZ S Tuner 51AT-15H BB RTUNH0115BMZZ S Tuner 51AT-15IR BE</p>					Q 0602	RH-TX0118BMZZ	S	BC635 B>100	AC
					Q 0603	RH-TX0142BMZZ	S	BC 547	AB
<p align="center">MOTHER UNIT</p> <p>PWB-A</p> <p align="center">TUNER</p> <p align="center">NOTE: The parts shown here are supplied as an assembly but not separately.</p> <p>RTUNH0103BMZZ S Tuner 51AT-15H BB RTUNH0115BMZZ S Tuner 51AT-15IR BE</p>					Q 0604	RH-TX0112BMZZ	S	BC 636	AB
					Q 0605	VS2SC2412KQ-1	J	2SC2412	AA
<p align="center">MOTHER UNIT</p> <p>PWB-A</p> <p align="center">TUNER</p> <p align="center">NOTE: The parts shown here are supplied as an assembly but not separately.</p> <p>RTUNH0103BMZZ S Tuner 51AT-15H BB RTUNH0115BMZZ S Tuner 51AT-15IR BE</p>					Q 0701	RH-TX0128BMZZ	S	STP3NA80FI	AM
					Q 0702, 0703	RH-TX0102BMZZ	S	BC 338	AB
<p align="center">MOTHER UNIT</p> <p>PWB-A</p> <p align="center">TUNER</p> <p align="center">NOTE: The parts shown here are supplied as an assembly but not separately.</p> <p>RTUNH0103BMZZ S Tuner 51AT-15H BB RTUNH0115BMZZ S Tuner 51AT-15IR BE</p>					Q 0704	RH-TX0130BMZZ	S	BC 338-40	AB
					Q 0705, 0706	RH-TX0142BMZZ	S	BC 547	AB
<p align="center">MOTHER UNIT</p> <p>PWB-A</p> <p align="center">TUNER</p> <p align="center">NOTE: The parts shown here are supplied as an assembly but not separately.</p> <p>RTUNH0103BMZZ S Tuner 51AT-15H BB RTUNH0115BMZZ S Tuner 51AT-15IR BE</p>					Q 0708	RH-TX0130BMZZ	S	BC 338-40	AB
					Q 0801, 0802, 0803, 0806, 1001, 1002, 1003	VS2SC2412KQ-1	J	2SC2412	AA
<p align="center">MOTHER UNIT</p> <p>PWB-A</p> <p align="center">TUNER</p> <p align="center">NOTE: The parts shown here are supplied as an assembly but not separately.</p> <p>RTUNH0103BMZZ S Tuner 51AT-15H BB RTUNH0115BMZZ S Tuner 51AT-15IR BE</p>					Q 1006	VS2SA1037KQ-1	J	2SA1037	AA
					Q 1007, 1008, 1010	VS2SC2412KQ-1	J	2SC2412	AA
<p align="center">MOTHER UNIT</p> <p>PWB-A</p> <p align="center">TUNER</p> <p align="center">NOTE: The parts shown here are supplied as an assembly but not separately.</p> <p>RTUNH0103BMZZ S Tuner 51AT-15H BB RTUNH0115BMZZ S Tuner 51AT-15IR BE</p>					Q 1011	RH-TX0142BMZZ	S	BC 547	AB
					Q 1012	VS2SC2412KQ-1	S	2SC2412	AA

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REF. NO.	PART NO.	★	DESCRIPTION	CODE	REF. NO.	PART NO.	★	DESCRIPTION	CODE
D 0501	RH-DX0501BMZZ	S	1N4004	AA	L 0601	VP-CF4R7K0000	S	4.7 μH	AB
D 0502, 0504	RH-DX0045BMZZ	S	1N4148	AA	L 0602	RCILZ0707BMZZ	S		AH
D 0505	RH-EX0440CEZZ	S	Zener 2.7V	AA	Δ L 0701	RCILF0111BMZZ	S	Mains Filter	AL
D 0506	RH-EX0408BMZZ	S	BZX79C5V1	AB	L 0702, 0703	RCILP0110CEZZ	S	Coil	AD
D 0507	RH-DX0045BMZZ	S	1N4148	AA	L 1002	VP-DF120K0000	S	12 μH	AB
D 0604	RH-DX0530BMZZ	S	1N4936	AA	L 1003	VP-DF6R8K0000	S	6.8 μH	AB
D 0605	RH-DX0529BMZZ	S	1N4935	AB					
D 0607	RH-DX0045BMZZ	S	1N4148	AA					
D 0608									
D 0609	RH-DX0529BMZZ	S	1N4935	AB					
D 0610	RH-DX0045BMZZ	S	1N4148	AA					
D 0611	RH-DX0529BMZZ	S	1N4935	AB	CF 0301	RFILC0023CEZZ	S		AE
D 0612, 0613, 0619, 0620	RH-DX0045BMZZ	S	1N4148	AA	CF 0302	RFILC0268CEZZ	S	Filter	AD
D 0701, 0702, 0703, 0704,	RH-DX0532BMZZ	S	1N4005	AD	SF 0201	RFILC01048MZZ	S	Saw Filter J1951	AM
D 0705	RH-DX0539BMZZ	S	BYT52M	AC					
D 0706	RH-DX0045BMZZ	S	104148	AA					
D 0707	RH-EX0409BMZZ	S	BZX79C5V6	AA					
D 0708	RH-DX0301BMZZ	S	BY299	AD					
D 0709, 0710	RH-DX0529BMZZ	S	1N4935	AB					
D 0712	RH-DX0533BMZZ	S	1N5819	AD					
D 0713	RH-EX0481BMZZ	S	BZX79B5V6-2%	AB					
D 0714, 0715	RH-EX0408BMZZ	S	BZX79C5V1	AB					
D 0716	RH-EX0425BMZZ	S	BZX79C27V	AA					
D 0717	RH-EX0495BMZZ	S	BZX79-75V-2%	AB					
D 0718	RH-EX0419BMZZ	S	BZX79C15V	AB					
D 0719	RH-DX0529BMZZ	S	1N4935	AB					
D 0720	RH-EX0407BMZZ	S	BZX79C4V7	AA					
D 0723	RH-DX0045BMZZ	S	1N4148	AA					
D 0801, 0802, 0803	RH-DX0508BMZZ	S	Diode SMD	AB					
D 1002, 1003, 1005, 1006, 1007, 1008, 1009, 1010,	RH-DX0045BMZZ	S	1N4148	AA					
D 1012	RH-DX0045BMZZ	S	1N4148	AA					
D 1103	RH-PX0291CEZZ	S	LED	AD					
PACKAGED CIRCUIT									
POR 0701	RMPTP0028CEZZ	J	PTC	AG					
X 0801	RCRS80200BMZZ	S	Crystal 17.734 MHz	AG					
X 1001	RCRS80225BMZZ	S	Crystal 18.0 MHz	AM					
COILS									
L 0202	VP-DF150K0000	S	15 μH	AB	Δ C 0702	RC-FZ0070BMZZ	S	0.1 250V Mylar	AD
L 0205	RCILP0227BMZZ	S	390 μH	AE	C 0703, 0704, 0705	RC-KZ0029CEZZ	J	0.01 250V Ceramic	AC
L 0303, 0304, 0401	VP-DF3R3K0000	S	3.3 μH	AB	C 0706	RC-EZ0100BMZZ	S	100 400V Electrolytic	AM
					C 0707	RC-FZ9153BMZZ	S	0.015 63V Mylar	AB
					C 0708	RC-FZ9683BMNJ	S	0.068 63V Mylar	AB
					C 0709	RC-FZ9332BMNJ	S	3300p 63V Mylar	AB
					C 0711	RC-EZ0258CEZZ	S	100 200V Electrolytic	AH
					C 0712	VCEAGA1CW227M	S	220 16V Electrolytic	AC
					C 0713	VCEAGA1CW108M	S	1000 16V Electrolytic	AD
					C 0714	VCEAGA1AW477M	S	470 10V Electrolytic	AB
					C 0715	RC-FZ9224BMNJ	S	2200p 10V Electrolytic	AC
					C 0716	VCEAGA1CW107M	S	100 25V Electrolytic	AB
					C 0718	RC-KZ0035CEZZ	S	220p 2KV Ceramic	AC
					C 0719	VCEAGA1VW477M	S	470 35V Electrolytic	AD
					C 0721	RC-FZ9104BMNJ	S	0.1 63V Mylar	AB
					Δ C 0722	RC-KZ0156CEZZ	S	3300p 4KV Ceramic	AD

REF.NO.	PART NO	★	DESCRIPTION	CODE
CABINET PARTS				
1	CCABA1060BMV2	S	Cabinet Ass'y, Front	BL
1-1	<i>Not available</i>	-	Cabinet, Front	-
1-2	GMADT1052BMSA	S	Window Cover	AH
1-3	HBDGB3505BMSA	S	Badge, "SHARP"	AF
1-4	JBTN-1022BMSA	S	Button, Power	AD
1-5	JBTN-1021BMSA	S	Buttons, Channer/Volume	AC
1-6	MSPRC0106BMFW	S	Spring, Power Button	AA
2	GCABB1038BMKA	S	Cabinet, Rear	BE



For Service Manuals Contact
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8 Cherry Tree Rd, Chinnor
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Tel:- 01844-351694 Fax:- 01844-352554
Email:- enquiries@mauritron.co.uk

REF. NO.	PART NO.	★	DESCRIPTION	CODE	REF. NO.	PART NO.	★	DESCRIPTION	CODE
C 0725	RC-KZ0035CEZZ	S	220p 2KV Ceramic	AC	PWB-B CRT SOCKET UNIT				
C 0801, 0802, 0803	RC-FZ9104BMNJ	S	0.1 63V Mylar	AB	TRANSISTORS				
C 0806	VCEAGA1AW477M	S	470 10V Electrolytic	AB	Q 0870, 0871, 0872	RH-TX0110BMZZ	S	BF 422	AB
C 0823	RC-FZ9104BMNJ	S	0.1 63V Mylar	AB	Q 0883, 0885, 0887	RH-TX0124BMZZ	S	BF 421	AB
C 0825	VCEAGA1AW477M	S	470 10V Electrolytic	AB	DIODES				
C 0827	RC-FZ9104BMNJ	S	0.1 63V Mylar	AB	D 0880, 0881, 0882	RH-DX0045BMZZ	S	1N4148	AA
C 0838	VCEAGA1AW477M	S	470 10V Electrolytic	AB	COILS				
C 0839	VCCCPA1HH820J	S	82p 50V Ceramic	AA	L 0882	VP-CF120K0000	S	12 µH	AC
C 1010	RC-FZ9122BMNJ	S	1200p 63V Mylar	AB	CAPACITORS				
C 1011	VCEAGA1AW337M	S	330 63V Electrolytic	AB	C 0874	VCKYPA2HB102K	J	1000p 500V Ceramic	AA
C 1013	RC-FZ9104BMNJ	J	0.1 63V Mylar	AB	C 0876	RC-KZ0023CEZZ	J	4700p 2 kV Ceramic	AD
C 1014	VCCCTV1HL101J	S	100p 50V Ceramic	AA	C 0878	VCEAAA2DW106M	J	10 200V Electrolytic	AC
C 1024	VCCSTV1HL151J	S	150 50V Ceramic	AA	RESISTORS				
C 1026	VCCSPA1HL101J	S	100p 50V Ceramic	AA	R 0882	VRS-VV3DB153J	J	15k 2W Metal Oxide	AA
C 1035	RC-FZ9224BMNJ	S	0.22 63V Mylar	AC	R 0883	VRC-MA2HG272K	J	2.7k 1/2W Solid	AA
RESISTORS					R 0884	VRS-VV3DB153J	J	15k 2W Metal Oxide	AA
R 0243	RR-XZ0110BMZZ	S	6.8 1/3W Fuse Resistor	AB	R 0885	VRS-MA2HG272K	J	2.7k 1/2W Solid	AA
R 0305	RR-XZ0204BMZZ	S	2.2 1/2W Fuse Resistor	AB	R 0886	VRS-VV3DB153J	J	15k 2W Metal Oxide	AA
R 0504	RR-XZ0104BMZZ	S	5.6 1/3W Fuse Resistor	AB	R 0887	VRC-MA2HG272K	J	2.7k 1/2W Solid	AA
R 0506	RR-XZ0100BMZZ	S	1 1/3W Fuse Resistor	AB	MISCELLANEOUS PARTS				
R 0532	RR-XZ0109BMZZ	S	5.6 1/3W Fuse Resistor	AB	△	QSOCV0919CEZZ	S	CRT Socket	AM
R 0603	RR-XZ0202BMZZ	S	1.5 1/2W Fuse Resistor	AB	MISCELLANEOUS PARTS				
R 0608	RR-XZ0216BMZZ	S	22 1/2W Fuse Resistor	AB	△	CACCB5008BMV0	S	AC Cord 51AT-15H	AT
R 0609	VRN-VV3AB3R3J	S	3.3 1W Metal Film	AA	△	CACCB5007BMV0	S	AC Cord 51AT-15IR	AU
R 0611	RR-XZ0242BMZZ	S	3.3K 1/3W Fuse Resistor	AB		RRMCG1051BMSA	S	Infrared Remote Control Unit	AW
R 0701	VRW-KX3HC5R6K	S	5.6 5W Cement	AD		GDORB1008BMSA	S	Battery Cover	AC
R 0706	VRN-VV3ABR27J	J	0.27 1W Metal Film	AA		VSP0010PBQ4WA	S	Speaker	AR
△ R 0721, 0722	VRC-U2AHG825K	J	8.2M 1/2W Solid	AA		TINS-6347BMN0	S	Operation Manual 51AT-5H	AS
MISCELLANEOUS PARTS						TINS-6380BMN0	S	Operation Manual 51AT-15IR	AG
△ F 0701	QFS-C2050BMZZ	S	Fuse 250V 2A	AD	MISCELLANEOUS PARTS				
F 0702	QFSHD1009CEZZ	J	Fuse Holder	AA					
F 0703	QFSHD1010CEZZ	S	Fuse Holder	AB					
FB 0304, 0602, 0702	RBLN-0037CEZZ	S	Ferrite Bead	AB					
FB 0801	RBLN-0020CEZZ	S	Ferrite Bead	AB					
FB 1001	RBLN-0037CEZZ	S	Ferrite Bead	AB					
M 1000	RRMCU0201BMZZ	S	Remote Control Receiver	AN					
△ S 0701, S 1001, 1002, 1003, 1004	QSW-P0600BMZZ	S	Power Switch	AL					
(A)	QPLGN0304CEZZ	J	Connector	AB					
(F)	QPLGN0505CEZZ	J	Connector	AB					
(G)	QPLGN0207CEZZ	J	Connector	AA					
(S)	QPLGN0241CEZZ	J	Connector	AA					
	QSOCZ0106BMZZ	S	RGB Connector	AE					

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