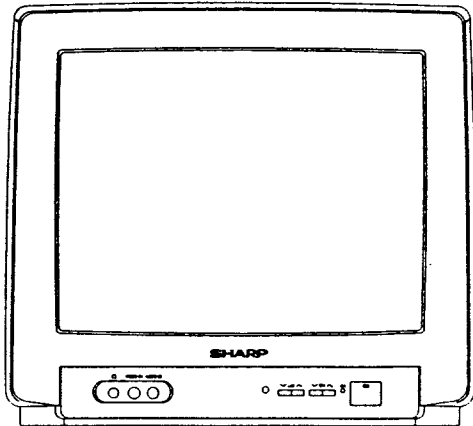


# SHARP

# SERVICE MANUAL

SEPL37FM14S/3

## CA1 - CHASSIS



37FM-14S  
37FT-16S

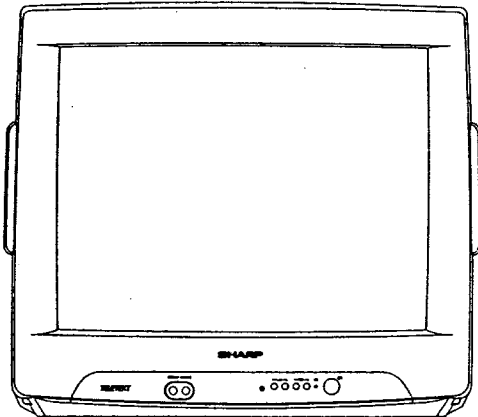
PAL SYSTEM COLOUR TELEVISION

**37FM-14S**

**37FT-16S**

**54FT-16S**

### MODELS



54FT-16S

### CONTENTS

ELECTRICAL SPECIFICATIONS . . . . .	2	PRINTING WIRING BOARDS . . . . .	11-12
IMPORTANT SERVICE NOTES . . . . .	3	WAVEFORMS, SCHEMATIC	
SERVICE ADJUSTMENTS . . . . .	4-10	AND BLOCK DIAGRAMS . . . . .	13-20
SOLID STATE DEVICE BASE DIAGRAM . . .	10	PART LIST . . . . .	21-27

## SHARP CORPORATION



## 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 800  $\mu$ A) 37FM-14S/37FT16S 26.3 kV  $\pm$  1.5 kV (at beam 800  $\mu$ A) 54FT16S, 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.

# 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

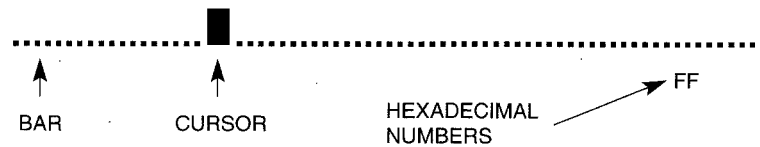
1. Press main switch to OFF.
2. Connect Test Pattern signal to antenna terminal.
3. Press  $\nabla$   $\triangleleft$  and CH  $\wedge$  buttons and main switch to ON simultaneously.
4. -SERV- will appear on screen. Service mode is now entered.
5. Select adjustment using buttons  $\wedge$  CH  $\nabla$ .  
To exit service mode, press main switch to OFF or press MENU button on R/C.

	Displayed on Screen	Hexadecimal Range	Function
	-SERV-		Indicates operative Service Mode.
a.	AGC	00 ~ 3F	Auto Gain Control.
b.	AFT	00 ~ 7F	Auto Frequency Control
c.	H-SHFT	00 ~ 3F	Horizontal Position shift
d.	V-SHFT	00 ~ 3F	Vertical Position shift.
e.	V-AMPL	00 ~ 3F	Vertical Amplitude shift.
f.	V-SLOP	00 ~ 3F	Vertical Symmetry alteration.
g.	V-DLY	00 ~ CF	VIDEO Delay.
h.	GAIN R	00 ~ 3F	Red Gain.
i.	GAIN G	00 ~ 3F	Green Gain.
j.	GAIN B	00 ~ 3F	Blue Gain.
k.	NVM	00 ~ 3F	Access to NVM memory.

6. For "a" thru j selections.

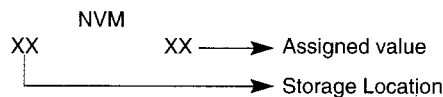
Adjustment to a selection can be made by pressing buttons  $\wedge$   $\triangleleft$   $\nabla$  ).

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



For "k" Selection.

NVM storage location settings variants.



In order to have access to the desired storage location, buttons  $\wedge$   $\triangleleft$   $\nabla$  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.

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



ADD (HEX)	DESCRIPTION																
00	RED COLOUR TEMPERATURE																
01	GREEN COLOUR TEMPERATURE																
02	BLUE COLOUR TEMPERATURE																
03	VERTICAL SHIFT																
04	HORIZONTAL SHIFT																
05	VERTICAL AMPLITUDE																
06	VERTICAL SLOPE																
07	LUMA DELAY PAL																
08	LUMA DELAY SECAM																
09	S-CORRECTION																
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 (HOTEL): LOCKED+SWITCH-ON PR1 (1), NO 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) VALUE=F8H (37DT-25H), F8H (51DT-25H)</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																
11	GREEN COLOUR TEMPERATURE																
12	BLUE COLOUR TEMPERATURE																
13	VERTICAL SHIFT																
14	HORIZONTAL SHIFT																
15	VERTICAL AMPLITUDE																
16	VERTICAL SLOPE																
17	LUMA DELAY PAL																
18	LUMA DELAY SECAM																
19	S-CORRECTION																
1A	AGC																

1B	<p>OPTIONS:</p> <table border="1"> <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>7</td> <td>6</td> <td>5</td> <td>4</td> <td>3</td> <td>2</td> <td>1</td> <td>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 (HOTEL): LOCKED+SWITCH-ON PR1 (1), NO 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) VALUE=F8H (37DT-25H), F8H (51DT-25H)</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										
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1E	MAXIMUM VOLUME LIMIT																
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21	GREEN COLOUR TEMPERATURE																
22	BLUE COLOUR TEMPERATURE																
23	VERTICAL SHIFT																
24	HORIZONTAL SHIFT																
25	VERTICAL AMPLITUDE																
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28	LUMA DELAY SECAM																
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2B	<p>OPTIONS:</p> <table border="1"> <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>7</td> <td>6</td> <td>5</td> <td>4</td> <td>3</td> <td>2</td> <td>1</td> <td>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 (HOTEL): LOCKED+SWITCH-ON PR1 (1), NO 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) VALUE=F8H (37DT-25H), F8H (51DT-25H)</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										
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: 0-3FH)
39	ACTUAL PROGRAMM
3A	TV STATE ON/OFF
3B	HUE
3C	CONTRAST (FACTORY PRESET)
3D	COLOUR (FACTORY PRESET)
3E	BRIGHTNESS (FACTORY PRESET)
3F	PEAKING (RANGE: 0-3FH)(FACTORY PRESET)
40	ON TIMER LAST VALUE
41	OFF TIMER LAST VALUE
42	OSD STATE BIT 0: PICTURE NORM ON/OFF BIT 1: SCART/AV LOCKED BIT 2: FRONTAL LOCKED BIT 3: ROW 8/30 PERM.(RESERVED-PROG. 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: (1) REAL_TIMER + ALARM / (0) ON_TIMER VALUE=48H (37DT-25H), 48H (51DT-25H)
43	BKGD USER'S CORRECTION (NOT USED IN THIS MODEL)
44	BKGD USER'S CORRECTION PRESET VALUE (NORMALIZED) (")
45	VOLTAGE LIMIT BETWEEN L'-L SYSTEM (MSB)
46	VOLTAGE LIMIT BETWEEN L'-L SYSTEM (LSB)
47	HORIZONTAL OSD OFFSET BIT 7: DIRECTION SIGN: (0) INCREASE (1) DECREASE BIT 6: DON'T CARE BIT 5 - BIT 0: OFFSET VALUE
48	PROG SEARCH SPEED ALL BAND -HIGH NIBBLE CMPLEMENTED-
49	PROG SEARCH SPEED (VHL BAND) -HIGH NIBBLE CMPLEMENTED-
4A	PROG SEARCH SPEED (VHL BAND) -HIGH NIBBLE CMPLEMENTED-
4B	PROG SEARCH SPEED (VHH BAND) -HIGH NIBBLE CMPLEMENTED-
4C	CHANNEL RANGE IN FACTORY AUTOINSTALL
4D	PASSWORD ON (1)/OFF (0)
4E	PASSWORD FIRST DIGIT
4F	PASSWORD SECOND DIGIT
50	PASSWORD THIRD DIGIT
51	PASSWORD FOURTH DIGIT
52	FREE

53	OSD WORD 1: BIT 0:OSD PROG SIZE. 0= LARGE (14") 1= SHORT (21") BIT 1:OSD PROG DISPLAYED TIME. 0=SHORT TIME / 1= LONG TIME
54	RED REFERENCE FOR AUTO BKGD ADJUSTMENT
55	GREEN REFERENCE FOR AUTO BKGD ADJUSTMENT
56	BLUE REFERENCE FOR AUTO BKGD ADJUSTMENT
57	CONTROL_2: OSO, VSD, CB, BLS, BKS, CS1, CS0, BB VALUE= 09AH
58	CONTROL_3: HOB, BPS, ACL, CMB, AST, CL2, CL1, CL0 VALUE= 024H
59	VERTICAL ZOOM APPROX. VALUE= 0DH
5A	VERTIVAL SCROLL APPROX. VALUE= 020H
5B	CONTROL_0: INA, INB, INC, CCC-D, FOA, FOB, XA, XB VALUE=01AH
5C	CONTROL_1: FORF, FORS, DL, STB, POC, CM2, CM1, CM0 VALUE=0C0H
5D	CONTROL_5: EVG, HCO, LBM, VID, STM, NCIN, VIM, AKB VALUE=026H
5E	CONTROL_6: IFS, AFW, IE1, COR, RBL, MAT, PRD, SBL VALUE=03CH
5F	CONTROL_7: EVSINC, EBS, FFI, HBL, GAI, IE2, DS, DSA VALUE=0H
60	NOT USED
61-FF	PROGRAMS (0-52)
100-18Dh	PROGRAMS (53-99)

## ■ PIF/AGC Adjustment

### 1. VCO + AFT Adjustment

ADJUSTMENT BY NVM VALUE

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

1. Receive the "COLOUR BAR" signal (Channel E-12).
  - Signal strength: 60 dB $\mu$ V.
2. Enter into Service Mode.
3. Push CH  $\wedge$  until AGC appears.
4. Press  $\odot$  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 220 V AC/50 Hz to TV.
2. Receive Phillips pattern signal to a level between 60 and 80 dB $\mu$ 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 220 V AC/50 Hz to TV.
2. Receive MONOSCOPE PATTERN signal to a level between 60 and 80 dB $\mu$ V.
3. Enter into Service Mode. Press the TEXT key of R/C and set to level.
4. Set to the point where the raster disappears on the screen VR of FBT.

## ■ GEOMETRY ADJUSTMENT PROCEDURE

### 1. H-SHFT

- 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)

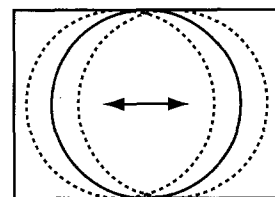


Fig.1

### 2. V-SHFT

- 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)

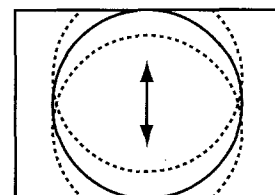


Fig.2

### 3. V-AMPL

- 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).

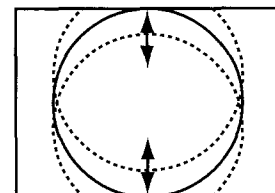


Fig.3

### 4. V-SLOP

- 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).

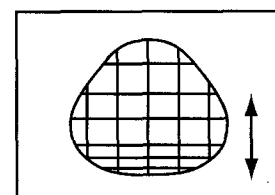


Fig.4

## COLOUR ADJUSTMENT

### 5. V-DLY

- 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  $\approx 120$  nits.
- Operate again in Service Mode and select location GAIN R, 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:

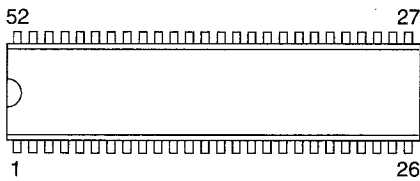
Locations: GAIN R alter 'X' coordinate; GAIN G alter the 'Y' coordinates; GAIN B alter the 'X' and 'Y' coordinates.

## CHILD LOCK CANCEL

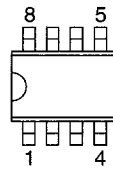
The following process describes how to cancel actual password (PIN) when the customer forgets code.

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

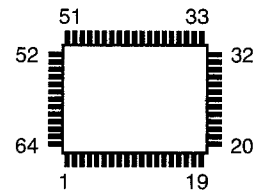
## SOLID STATE DEVICE BASE DIAGRAM



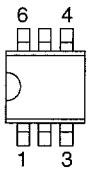
RH-IX1632BMN2  
RH-IX1655BMN2  
RH-IX1658BMN2



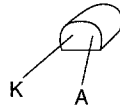
RH-IX1667BMZZ



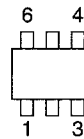
RH-IX1630BMN2



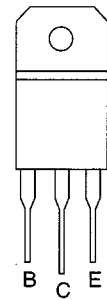
RH-FX0106BMZZ  
(SMD COMPONENT)



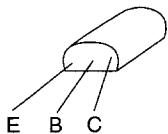
RH-IX0037CEZZ



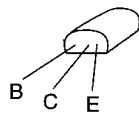
VSIMT1A/A//1



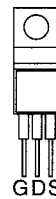
RH-TX0132BMZZ



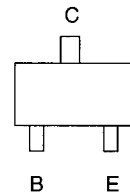
RH-TX0102BMZZ  
RH-TX0104BMZZ  
RH-TX0105BMZZ  
RH-TX0142BMZZ  
RH-TX0130BMZZ



RH-TX0108BMZZ  
RH-TX0112BMZZ  
RH-TX0118BMZZ  
RH-TX0131BMZZ



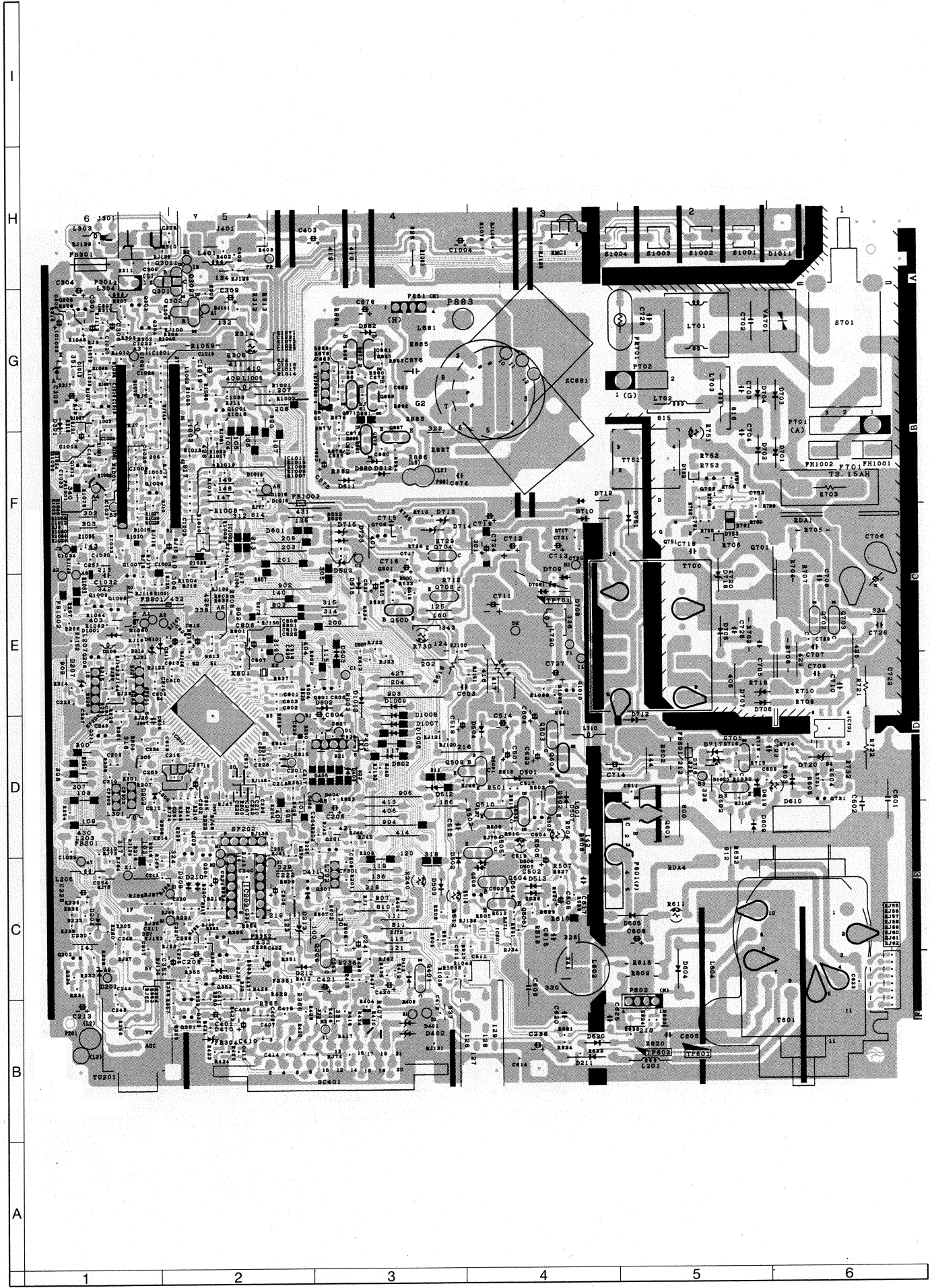
RH-TX0128BMZZ



VS2SA1037KQ-1  
VS2SC2412KQ-1

# PRINTED WIRING BOARDS

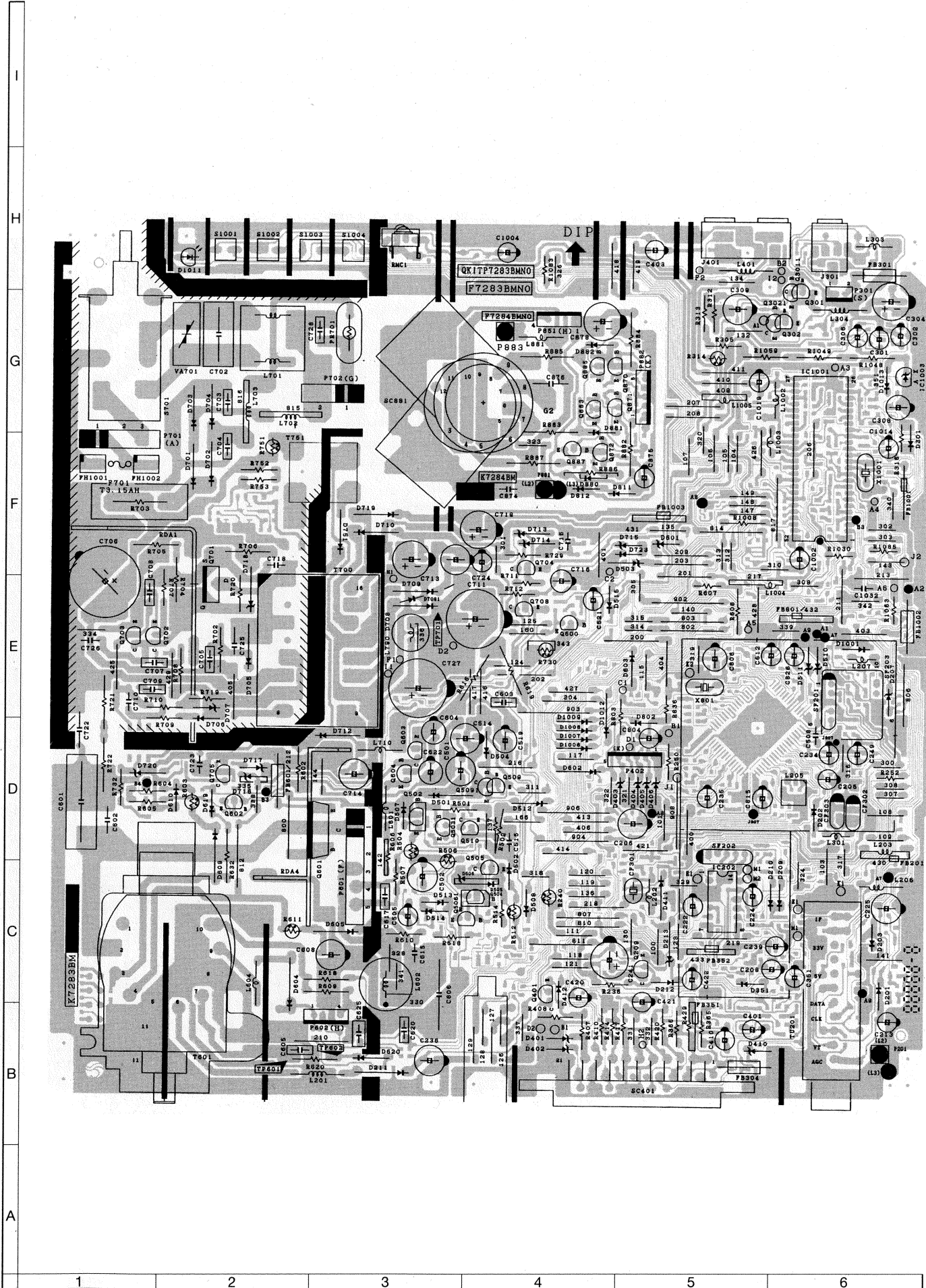
37FM-14S  
37FT-16S  
54FT-16S





37FM-14S  
37FT-16S  
54FT-16S

# PRINTED WIRING BOARDS





## 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  $\mu\text{F}$ , unless otherwise noted ( $P=\mu\mu\text{F}$ ).
4. The capacitor with Part No. RC-FZ9XXXBMNJ is designed to withstand 63V.

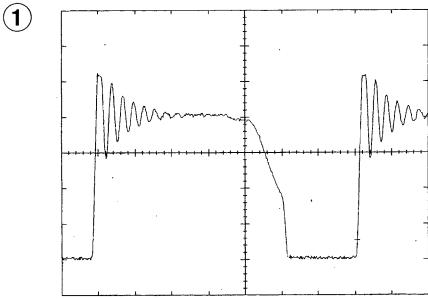
### **WAVEFORM MEASUREMENT**

#### **CONDITIONS:**

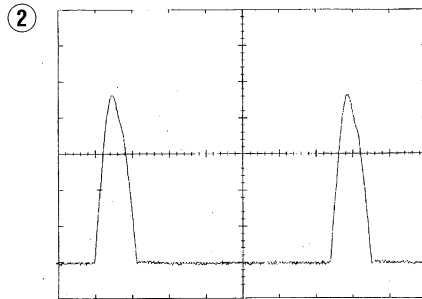
Colour bar generator signal of 70 dB from RF input.

### **CAUTION:**

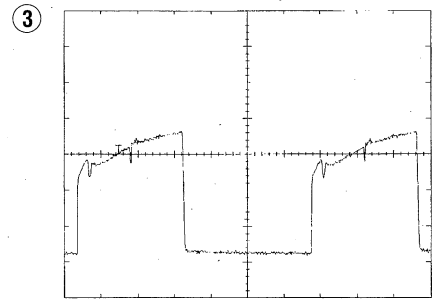
This circuit diagram is original one, therefore there may be a slight difference from yours.



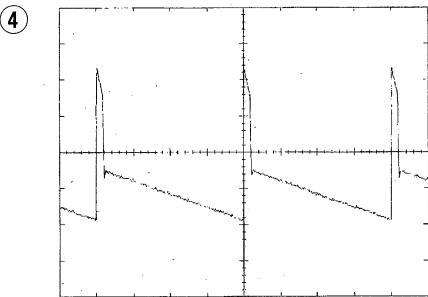
500 Vpp



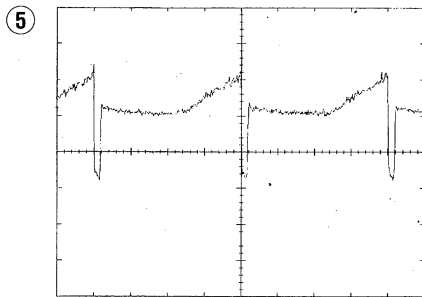
14"  $\Rightarrow$  950 Vpp  
21"  $\Rightarrow$  1 Kvpp  
15,6 KHz



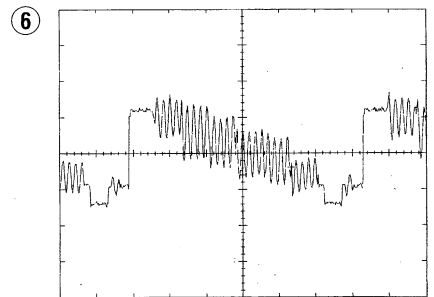
7,5 Vpp  
15,6 KHz



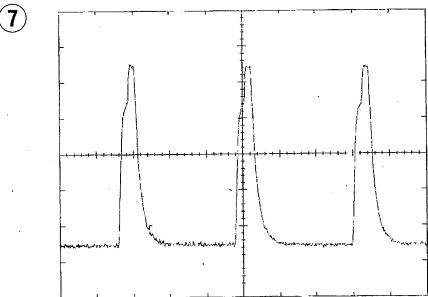
14"  $\Rightarrow$  45 Vpp  
21"  $\Rightarrow$  50 Vpp  
50 Hz



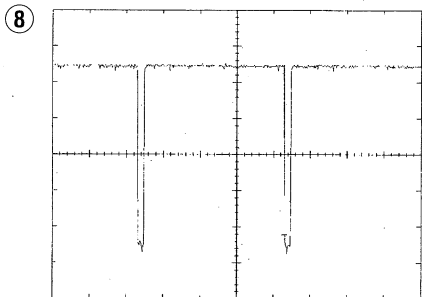
1,5 Vpp  
50 Hz



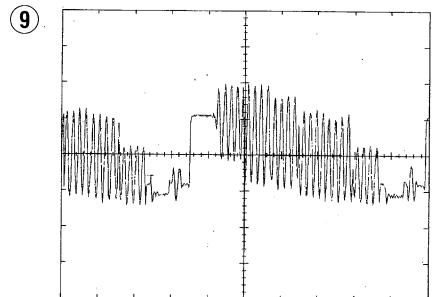
1,5 Vpp



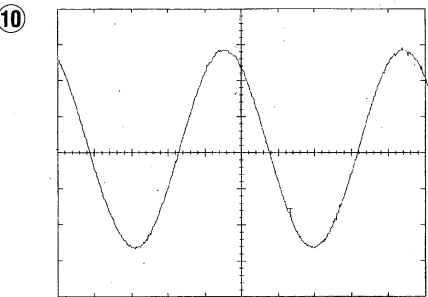
5 Vpp



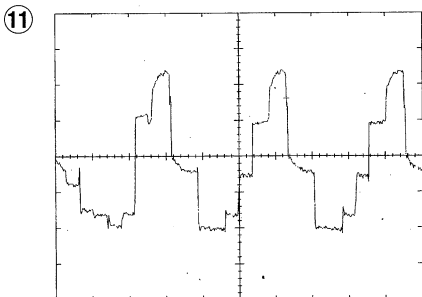
5 Vpp



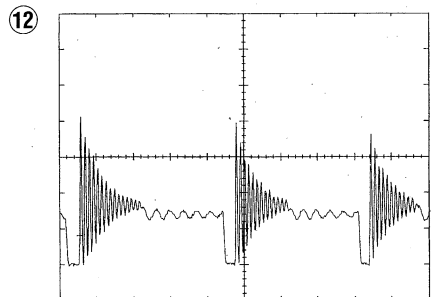
1,6 Vpp



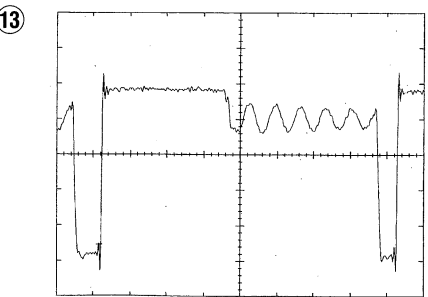
1 KHz



14"  $\Rightarrow$  45 Vpp  
21"  $\Rightarrow$  50 Vpp



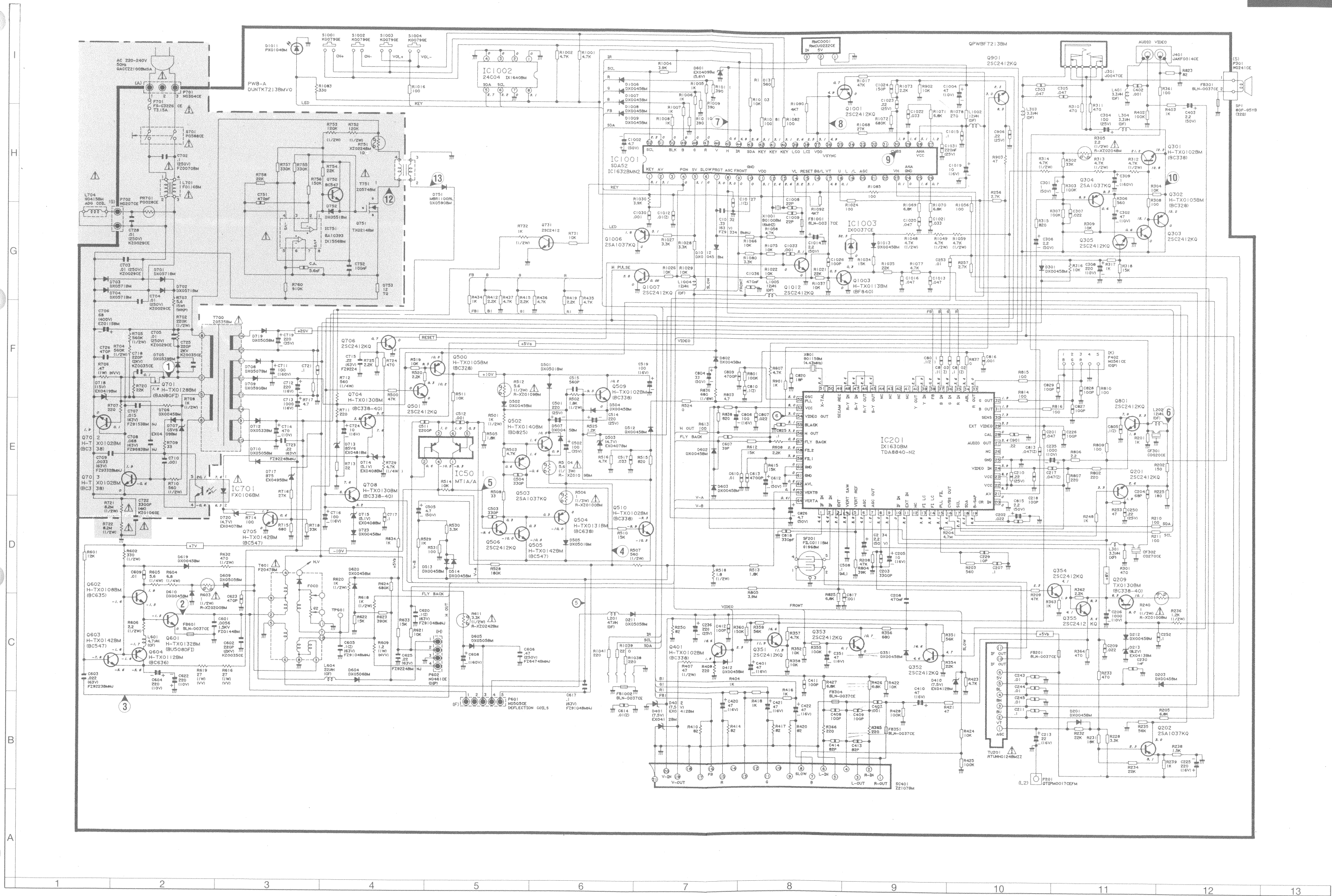
800 Vpp



47 Vpp

MAIN CIRCUIT 37FM-14S

37FM-14S  
37FT-16S  
54FT-16S



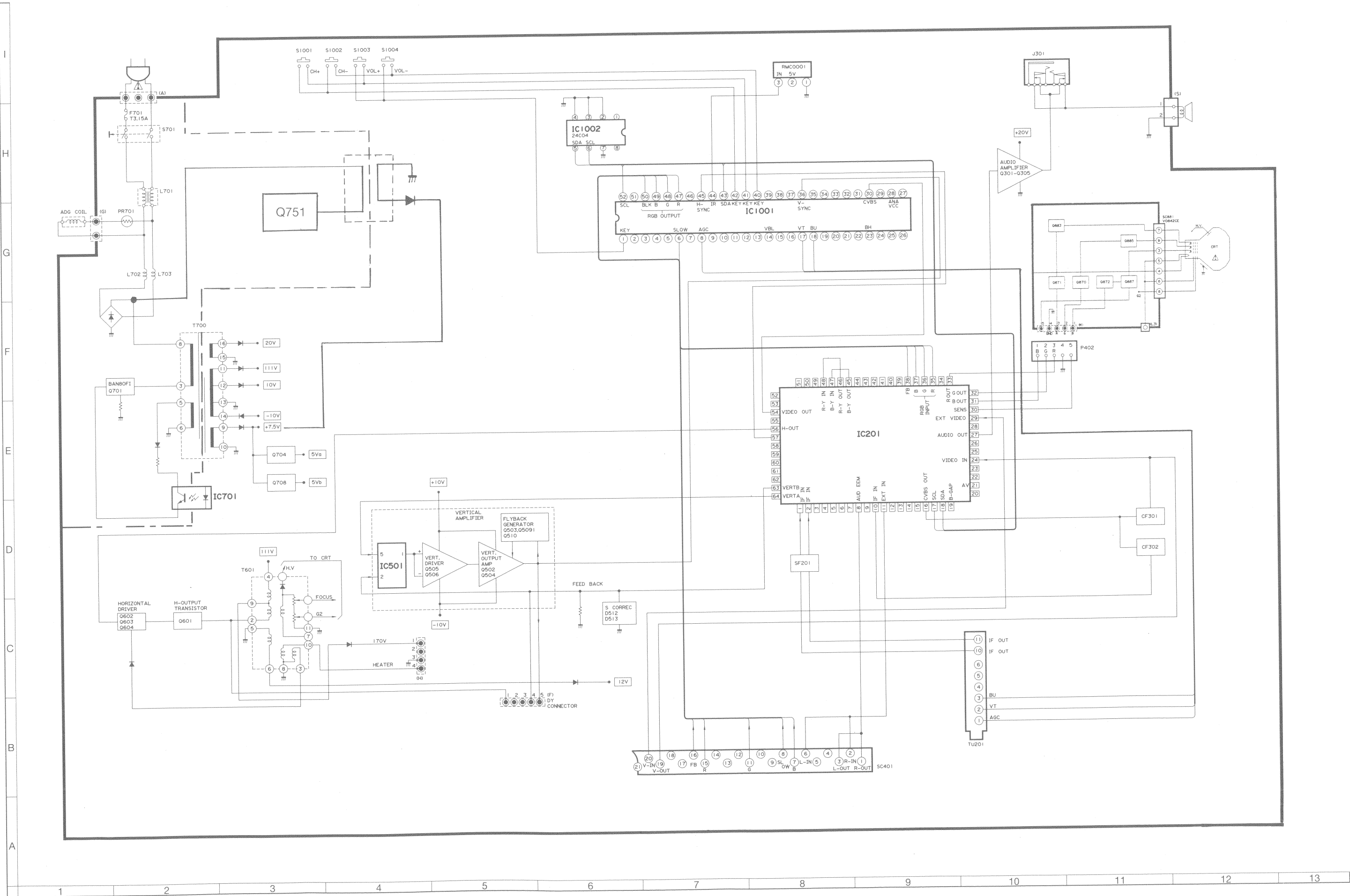


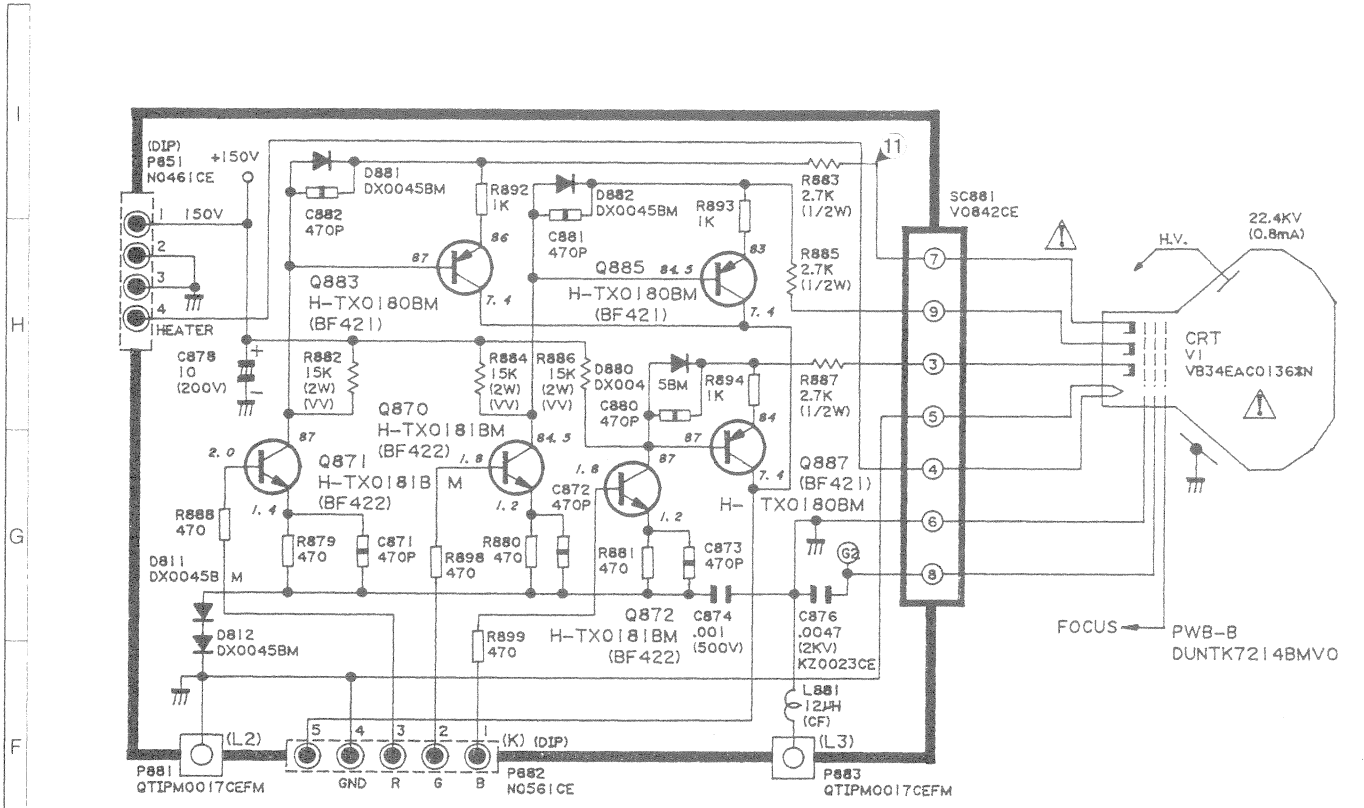




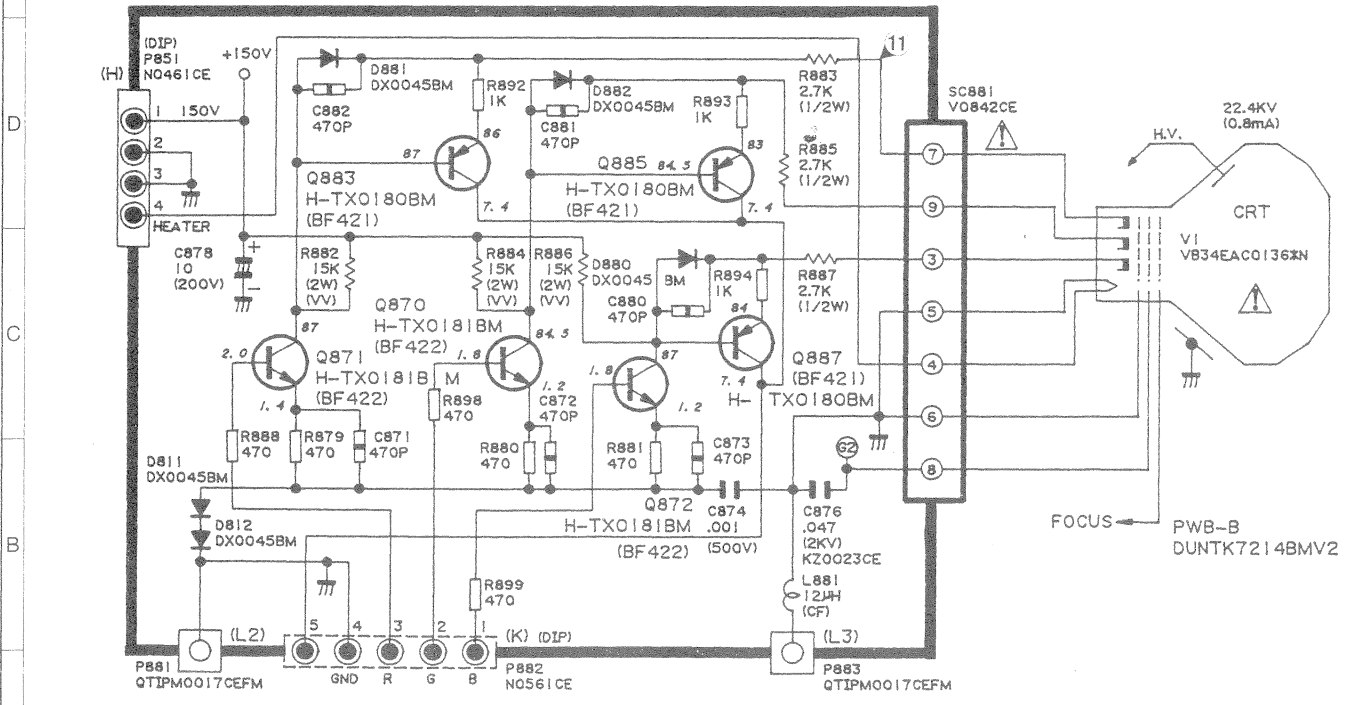
37FM-14S  
37FT-16S  
54FT-16S

BLOCK DIAGRAM



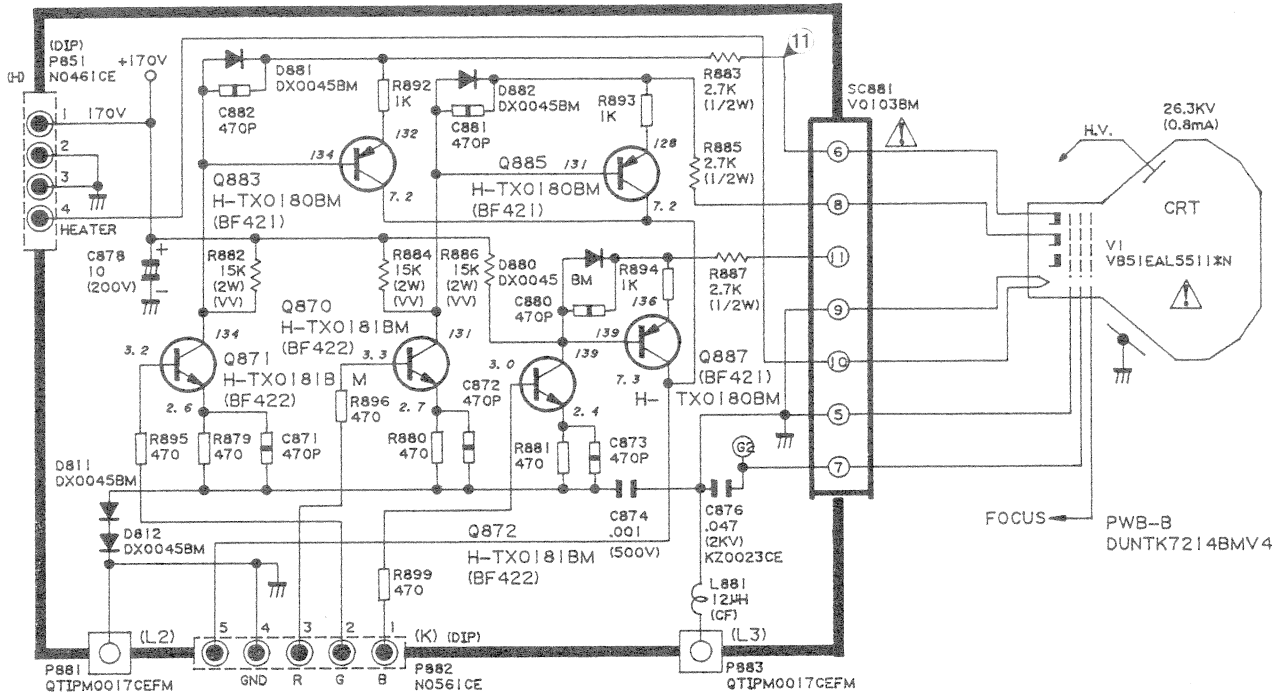


37FM-14S



37FT-16S

SOCKET UNITS



54FT-16S



PARTS LIST REPLACEMENT PARTS					REF. NO	PARTS	★	DESCRIPTION	EX	SP
<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.</p> <p>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><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>CODE EX: EUROPEAN MARKET CODE SP: SPANISH MARKET ★ MARK: SPARE PARTS DELIVERY SECTION</p>					Q 0352	VS2SC2412KQ-1	S	2SC2412	AA	AA
					Q 0353	VS2SC2412KQ-1	S	2SC2412	AA	AA
					Q 0354	VS2SC2412KQ-1	S	2SC2412	AA	AA
					Q 0355	VS2SC2412KQ-1	S	2SC2412	AA	AA
					Q 0401	RH-TX0102BMZZ	S	BC338	AB	AA
					Q 0500	RH-TX0112BMZZ	S	BC636	AB	AA
					Q 0501	VS2SC2412KQ-1	S	2SC2412	AA	AA
					Q 0502	RH-TX0140BMZZ	S	BD825-16	AC	AF
					Q 0503	VS2SA1037KQ-1	S	BC807 37FM14S/37FT16S	AA	AA
					Q 0503.	RH-TX0153BMZZ	S	BC856 54FT16S	AB	AA
					Q 0504	RH-TX0131BMZZ	S	BC638 37FM14S/37FT16S	AC	AB
					Q 0504.	RH-TX0204BMZZ	S	BD830 54FT16S	AC	AF
					Q 0505	RH-TX0142BMZZ	S	BC 547-B 37FM14S/37FT16S	AB	AA
					Q 0505.	RH-TX0154BMZZ	S	BC546 54FT16S	AA	AA
					Q 0506	VS2SC2412KQ-1	S	2SC2412 37FM14S/37FT16S	AA	AA
					Q 0506.	RH-TX0152BMZZ	S	BC846 54FT16S	AA	AA
					Q 0509	RH-TX0102BMZZ	S	BC338	AB	AA
					Q 0510	RH-TX0102BMZZ	S	BC338	AB	AA
					Q 0601	RH-TX0132BMZZ	S	BU508DFI	AM	AF
					Q 0602	RH-TX0108BMZZ	S	BC635 37FM14S/37FT16S	AC	AA
					Q 0602.	RH-TX0118BMZZ	S	BC635-16 54FT16S	AC	AC
					Q 0603	RH-TX0142BMZZ	S	BC 547-B	AB	AA
					Q 0604	RH-TX0112BMZZ	S	BC636	AB	AA
					Q 0701	RH-TX0128BMZZ	S	STP3NA80FI	AM	AF
					Q 0702	RH-TX0102BMZZ	S	BC338	AB	AA
					Q 0703	RH-TX0102BMZZ	S	BC338	AB	AA
					Q 0704	RH-TX0130BMZZ	S	BC338-40	AB	AA
					Q 0705	RH-TX0142BMZZ	S	BC 547-B	AB	AA
					Q 0706	VS2SC2412KQ-1	S	2SC2412	AA	AA
					Q 0708	RH-TX0130BMZZ	S	BC338-40	AB	AA
					Q 0731	VS2SC2412KQ-1	S	2SC2412	AA	AA
					Q 0751	RH-TX0214BMZZ	S	STD2NB80T4	AH	AE
					Q 0752	VS2SC2412KQ-1	S	2SC2412	AA	AA
					Q 0801	VS2SC2412KQ-1	S	2SC2412	AA	AA
					Q 0901	VS2SC2412KQ-1	S	2SC2412	AA	AA
					Q 1001	VS2SC2412KQ-1	S	2SC2412	AA	AA
					Q 1003	RH-TX0113BMZZ	S	BF840	AC	AA
					Q 1006	VS2SA1037KQ-1	S	BC807	AA	AA
					Q 1007	VS2SC2412KQ-1	S	2SC2412	AA	AA
					Q 1012	VS2SC2412KQ-1	S	2SC2412	AA	AA
					Q 3011	RH-TX0108BMZZ	S	BC635	AC	AA
					Q 3021	RH-TX0112BMZZ	S	BC636	AB	AA
					Q 5091	RH-TX0108BMZZ	S	BC635	AC	AA
					<b>DIODES</b>					
					D 0201	RH-DX0045BMZZ	S	1N4148	AA	AA
					D 0203	RH-DX0045BMZZ	S	1N4148	AA	AA
					D 0211	RH-DX0505BMZZ	S	1N4935	AE	AB
					D 0212	RH-DX0045BMZZ	S	1N4148	AA	AA
					D 0213	RH-EX0413BMZZ	S	BZX79C8V2	AB	AB
					D 0351	RH-DX0045BMZZ	S	1N4148	AA	AA
					D 0401	RH-EX0412BMZZ	S	BZX79C7V5	AB	AA
					D 0402	RH-EX0412BMZZ	S	BZX79C7V5	AB	AA
					D 0403	RH-EX0412BMZZ	S	BZX79C7V5	AB	AA
					D 0410	RH-EX0412BMZZ	S	BZX79C7V5	AB	AA
					D 0411	RH-DX0045BMZZ	S	1N4148	AA	AA
					D 0412	RH-DX0045BMZZ	S	1N4148	AA	AA
					D 0501	RH-DX0501BMZZ	S	1N4004	AA	AA
					D 0502	RH-DX0045BMZZ	S	1N4148	AA	AA
					D 0503	RH-EX0409BMZZ	S	BZX79C5V6	AA	AA
					D 0504	RH-DX0045BMZZ	S	1N4148	AA	AA
					D 0505	RH-DX0501BMZZ	S	1N4004	AA	AA
					D 0507	RH-DX0045BMZZ	S	1N4148	AA	AA
					D 0510	RH-EX0404BMZZ	S	BZX79C3V6	AA	AA
					D 0511	RH-EX0404BMZZ	S	BZX79C3V6	AA	AA
					D 0512	RH-DX0045BMZZ	S	1N4148	AA	AA
					D 0513	RH-DX0045BMZZ	S	1N4148	AA	AA
					D 0514	RH-DX0045BMZZ	S	1N4148	AA	AA
					D 0531	RH-DX0045BMZZ	S	1N4148	AA	AA
					D 0601	RH-EX0409BMZZ	S	BZX79C5V6	AA	AA
					D 0602	RH-DX0045BMZZ	S	1N4148	AA	AA
					<b>TRANSISTORS</b>					
					Q 0201	VS2SC2412KQ-1	S	2SC2412	AA	AA
					Q 0202	VS2SA1037KQ-1	S	BC807	AA	AA
					Q 0209	RH-TX0130BMZZ	S	BC338-40	AB	AA
					Q 0301	RH-TX0102BMZZ	S	BC338	AB	AA
					Q 0302	RH-TX0105BMZZ	S	BC328	AB	AA
					Q 0303	VS2SC2412KQ-1	S	2SC2412	AA	AA
					Q 0304	VS2SA1037KQ-1	S	BC807	AA	AA
					Q 0305	VS2SC2412KQ-1	S	2SC2412	AA	AA
					Q 0351	VS2SC2412KQ-1	S	2SC2412	AA	AA
REF. NO	PARTS	★	DESCRIPTION	EX	SP					
<b>PICTURE TUBE</b>										
$\Delta$	VB34EAC0136*N	S	C.R.T. 37FM14S/37FT16S	BZ	BH					
$\Delta$	VB51EAL15511N	S	C.R.T. 54FT16S	CG	CF					
$\Delta$	RCILG0415BMZZ	S	Degaussing Coil 37FM14S/37FT16S	AM	AF					
$\Delta$	RCILG0408BMZZ	S	Degaussing Coil 54FT16S	AP	AH					
<b>PRINTED WIRING BOARDS (NOT REPLACEMENT ITEM)</b>										
PWB-A	DUNTK7283CJV0	S	Mother Unit 37FM14S							
PWB-A	DUNTK7283CJV2	S	Mother Unit 37FT16S							
PWB-A	DUNTK7283CJV1	S	Mother Unit 54FT16S							
PWB-B	DUNTK7284CJV0	S	Socket Unit 37FM14S							
PWB-B	DUNTK7284CJV2	S	Socket Unit 37FT16S							
PWB-B	DUNTK7284CJV1	S	Socket Unit 54FT16S							
<b>PWB-A MOTHER UNIT</b>										
<b>TUNER</b>										
$\Delta$ TU 0201	RTUNH0124BMZZ	S	Tuner	BA	AP					
<b>INTEGRATED CIRCUITS</b>										
IC 0201	RH-IX1630BMN2	S	TDA8840-2Y	AZ	AN					
IC 0501	VSIMT1A/A/-/1	S	IMT1A-T110	AB	AA					
$\Delta$ IC 0701	RH-FX0106BMZZ	S	M0C8106SR2V	AD	AC					
IC 0751	RH-IX1556BMZZ	S	BA10393	AD	AC					
IC 1001	RH-IX1632BMN2	S	SDA5222-2 A001 37FM14S	AV	AN					
IC 1001	RH-IX1658BMN2	S	SDA5253-2 B001 37FT16S	BE	AX					
IC 1001.	RH-IX1655BMN2	S	SDA5254-2-B013 54FT16S	BF	AX					
IC 1002	RH-IX1667BMZZ	S	M24C04	AF	AE					
IC 1003	RH-IX0037CEZZ	S	UPC574J 33V	AD	AF					

REF. NO	PARTS	★	DESCRIPTION	EX	SP	REF. NO	PARTS	★	DESCRIPTION	EX	SP
D 0603	RH-DX0045BMZZ	S	1N4148	AA	AA	TRANSFORMERS					
D 0604	RH-DX0506BMZZ	S	1N4936	AB	AB						
D 0605	RH-DX0505BMZZ	S	1N4935	AE	AB						
D 0609	RH-DX0505BMZZ	S	1N4935	AE	AB						
D 0610	RH-DX0045BMZZ	S	1N4148	AA	AA						
D 0619	RH-DX0045BMZZ	S	1N4148	AA	AA						
D 0620	RH-DX0045BMZZ	S	1N4148	AA	AA						
D 0701	RH-DX0571BMZZ	S	1N4005	AA	AA						
D 0702	RH-DX0571BMZZ	S	1N4005	AA	AA						
D 0703	RH-DX0571BMZZ	S	1N4005	AA	AA						
D 0704	RH-DX0571BMZZ	S	1N4005	AA	AA	CAPACITORS					
D 0705	RH-DX0539BMZZ	S	BYT52M	AC	AA						
D 0706	RH-DX0045BMZZ	S	1N4148	AA	AA						
D 0707	RH-EX0409BMZZ	S	BZX79C5V6	AA	AA						
D 0708	RH-DX0507BMZZ	S	1N4937 37FM14S/37FT16S	AB	AA						
D 0708.	RH-DX0561BMZZ	S	RGF15J 54FT16S	AD	AC						
D 0709	RH-DX0590BMZZ	S	MBR1100RL	AE	AD						
D 0710	RH-DX0505BMZZ	S	1N4935	AE	AB						
D 0712	RH-DX0519BMZZ	S	1N5819	AD	AB						
D 0713	RH-EX0481BMZZ	S	BZX79 B5V6 2%	AB	AA						
D 0714	RH-EX0408BMZZ	S	BZX79C5V1	AB	AB						
D 0715	RH-EX0408BMZZ	S	BZX79C5V1	AB	AB						
D 0716	RH-EX0425BMZZ	S	BZX79C27V	AA	AA						
D 0717	RH-EX0495BMZZ	S	BZX79 B75V 2%	AB	AA						
D 0718	RH-EX0419BMZZ	S	BZX79C15V 0,4W	AB	AA						
D 0719	RH-DX0505BMZZ	S	1N4935	AE	AB						
D 0720	RH-EX0407BMZZ	S	BZX79C4V7	AB	AA						
D 0723	RH-DX0045BMZZ	S	1N4148	AA	AA						
D 0751	RH-DX0503BMZZ	S	1N4933	AB	AB						
D 0752	RH-DX0551BMZZ	S	LL4148	AA	AA						
D 0802	RH-DX0045BMZZ	S	1N4148	AA	AA						
D 1006	RH-DX0045BMZZ	S	1N4148	AA	AA						
D 1007	RH-DX0045BMZZ	S	1N4148	AA	AA						
D 1008	RH-DX0045BMZZ	S	1N4148	AA	AA						
D 1009	RH-DX0045BMZZ	S	1N4148	AA	AA						
D 1011	RH-PX0104BMZZ	S	Led	AC	AB						
D 1012	RH-DX0045BMZZ	S	1N4148	AA	AA						
D 1013	RH-DX0045BMZZ	S	1N4148	AA	AA						
D 1014	VHDDA227///-1	S	DA227TL	AB	AA						
PACKAGED CIRCUITS											
Δ PR 0701	RMPTP0028CEZZ	S	P.T.C.	AG	AC	C 0201	VCKYTV1HF473Z	S	0.047 50V Ceramic	AA	AA
X 0801	RCRSB0115BMZZ	S	Crystal 4.43 MHz	AG	AD	C 0202	VCKYTV1HB223K	S	0.022 50V Ceramic	AA	AA
X 1001	RCRSB0100BMZZ	S	Crystal 6.00 MHz	AG	AD	C 0203	VCKYTV1HB332K	S	3300p 50V Ceramic	AA	AA
COILS						C 0204	VCCCTV1HH680J	S	68p 50V Ceramic	AA	AA
L 0201	VP-DF470K0000	S	47μH	AB	AB	C 0205	VCEAGA1CW106M	S	10 16V Electrolytic	AA	AA
L 0202	VP-DF120K0000	S	12μH	AB	AB	C 0206	VCEAGA1AW108M	S	1000 10V Electrolytic	AC	AA
L 0301	VP-XF3R3K0000	S	3.3μH	AB	AA	C 0207	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
L 0303	VP-DF3R3K0000	S	3.3μH	AB	AB	C 0208	VCEAGA1HW474M	S	0.47 50V Electrolytic	AA	AA
L 0304	VP-DF3R3K0000	S	3.3μH	AB	AB	C 0209	VCKYTV1HB223K	S	0.022 50V Ceramic	AA	AA
L 0401	VP-DF3R3K0000	S	3.3μH	AB	AB	C 0210	VCKYTV1EF224Z	S	0.22 25V Ceramic	AA	AA
L 0601	VP-CF4R7K0000	S	4.7μH	AB	AB	C 0211	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
L 0602	RCILZ0717BMZZ	S	Lineality Coil	AH	AE	C 0212	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
L 0604	VP-CF220K0000	S	22μH	AA	AA	C 0213	VCEAGA1CW226M	S	22 16V Electrolytic	AA	AA
Δ L 0701	RCILF0111BMZZ	S	Main Filter	AL	AE	C 0217	VCKYTV1HF473Z	S	0.047 50V Ceramic	AA	AA
L 0702	RCILP0110CEZZ	S	3.3μH	AD	AD	C 0218	VCCCTV1HH101J	S	100p 50V Ceramic	AA	AA
L 0703	RCILP0110CEZZ	S	3.3μH	AD	AD	C 0225	VCEAGA1CW227M	S	220 16V Electrolytic	AC	AC
L 0710	VP-CF120K0000	S	12μH	AC	AB	C 0226	VCCCTV1HH101J	S	100p 50V Ceramic	AA	AA
L 1002	VP-DF120K0000	S	12μH	AB	AB	C 0229	VCCCTV1HH100D	S	10p 50V Ceramic	AA	AA
L 1004	VP-DF120K0000	S	12μH	AB	AB	C 0230	VCKYTV1HB102K	S	1000p 50V Ceramic	AA	AA
L 1005	VP-DF120K0000	S	12μH	AB	AB	C 0234	VCEAGA1HW225M	S	2.2 50V Electrolytic	AB	AA
CERAMIC FILTERS						C 0235	VCEAGA1AW108M	S	1000 10V Electrolytic	AC	AA
CF 0301	RFILC0020CEZZ	S	Filter	AE	AE	C 0236	VCEAGA1EW227M	S	220 25V Electrolytic	AA	AA
CF 0302	RFILC0270CEZZ	S	Filter	AE	AC	C 0240	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
SF 0201	RFILC0111BMZZ	S	SAW Filter G1968M 37FM14S	AM	AF	C 0242	VCKYTV1HF103Z	S	0.01 50V Ceramic	AA	AA
SF 0201.	RFILC0274BMZZ	S	SAW Filter G1984 37/54FT16S	AK	AF	C 0243	VCKYTV1HF103Z	S	0.01 50V Ceramic	AA	AA
						C 0244	VCKYTV1HF103Z	S	0.01 50V Ceramic	AA	AA
						C 0245	VCKYTV1HF103Z	S	0.01 50V Ceramic	AA	AA
						C 0250	VCKYTV1EF224Z	S	0.22 25V Ceramic	AA	AA
						C 0252	VCKYTV1HF104Z	S	0.1 50V Ceramic	AA	AA
						C 0253	VCKYTV1HF103Z	S	0.01 50V Ceramic	AA	AA
						C 0301	VCEAGA1HW105M	S	1 50V Electrolytic	AA	AA
						C 0302	VCEAGA1AW476M	S	47 10V Electrolytic	AA	AA
						C 0303	VCKYTV1HF473Z	S	0.047 50V Ceramic	AA	AA
						C 0304	VCEAGA1EW107M	S	100 25V Electrolytic	AA	AA
						C 0304.	VCEAGA1EW477M	S	470 25V Electrolytic 54FT16S	AB	AA
						C 0305	VCKYTV1HF473Z	S	0.047 50V Ceramic	AA	AA
						C 0306	VCEAGA1HW225M	S	2.2 50V Electrolytic	AB	AA
						C 0307	VCKYTV1HB223K	S	0.022 50V Ceramic	AA	AA
						C 0309	VCEAGA2CW105M	S	1 160V Electrolytic	AB	AA
						C 0351	VCEAGA1CW476M	S	47 16V Electrolytic	AB	AB
						C 0401	VCEAGA1CW476M	S	47 16V Electrolytic	AB	AB
						C 0402	VCKYTV1HB102K	S	1000p 50V Ceramic	AA	AA
						C 0403	VCEAGA1HW225M	S	2.2 50V Electrolytic	AB	AA
						C 0407	VCKYTV1HB102K	S	1000p 50V Ceramic	AA	AA
						C 0408	VCCCTV1HH101J	S	100p 50V Ceramic	AA	AA
						C 0409	VCCCTV1HH101J	S	100p 50V Ceramic	AA	AA
						C 0410	VCEAGA1CW476M	S	47 16V Electrolytic	AB	AB
						C 0411	VCCCTV1HH101J	S	100p 50V Ceramic	AA	AA
						C 0412	VCKYTV1HF103Z	S	0.01 50V Ceramic	AA	AA
						C 0413	VCCCTV1HH820J	S	82p 50V Ceramic	AA	AA
						C 0414	VCCCTV1HH820J	S	82p 50V Ceramic	AA	AA
						C 0420	VCEAGA1CW476M	S	47 16V Electrolytic	AB	AB
						C 0421	VCEAGA1CW476M	S	47 16V Electrolytic	AB	AB
						C 0422	VCEAGA1CW476M	S	47 16V Electrolytic	AB	AB
						C 0501	VCEAGA1EW227M	S	220 25V Electrolytic	AA	AA
						C 0502	VCEAGA1VW107M	S	100 35V Electrolytic	AC	AA
						C 0503	VCCSTV1HL331J	S	330p 50V Ceram 37FM14S	AA	AA
						C 0503.	VCCCTV1HH680J	S	68p 50V Ceram 37/54FT16S	AA	AA
						C 0504	VCCSTV1HL331J	S	330p 50V Ceram 37FM14S	AA	AA
						C 0504.	VCCCTV1HH680J	S	68p 50V Ceram 37/54FT16S	AA	AA

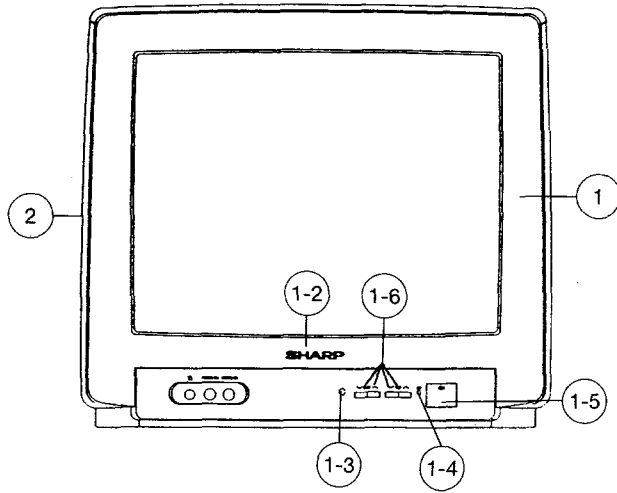


REF. NO	PARTS	★	DESCRIPTION	EX	SP	REF. NO	PARTS	★	DESCRIPTION	EX	SP
R 0239	VRS-TV1JD331J	S	330 1/10W Metal Oxide	AA	AA	R 0503	VRS-TV1JD472J	S	4.7K 1/10W Metal Oxide	AA	AA
Δ R 0240	RR-XZ0100BMZZ	S	1 1/3W Fuse Resistor	AB	AA	Δ R 0504	RR-XZ0109BMZZ	S	5.6 1/3W Fuse Resistor	AB	AA
R 0248	VRS-TV1JD000J	S	Jumper	AA	AA				37FM14S/37FT16S		
R 0250	VRD-RA2BE820J	S	82 1/8W Carbon	AA	AA	Δ R 0504.	RR-XZ0104BMZZ	S	2.2 1/3W Fuse Resistor	AB	AA
R 0253	VRS-TV1JD470J	S	47 1/10W Metal Oxide	AA	AA				54FT16S		
R 0256	VRS-TV1JD272J	S	2.7K 1/10W Metal Oxide	AA	AA	R 0505	VRS-TV1JD182J	S	1.8K 1/10W Metal Oxide	AA	AA
R 0257	VRS-TV1JD272J	S	2.7K 1/10W Metal Oxide	AA	AA	R 0506	RR-XZ0100BMZZ	S	1 1/3W Fuse Resistor	AB	AA
R 0301	VRS-TV1JD471J	S	470 1/10W Metal Oxide	AA	AA	R 0507	VRD-RA2HD561J	S	560 1/2W Carbon	AA	AA
R 0302	VRS-TV1JD333J	S	33K 1/10W Metal Oxide	AA	AA	R 0508	VRS-TV1JD330J	S	33 1/10W Metal Oxide	AA	AA
R 0303	VRS-TV1JD104J	S	100K 1/10W Metal Oxide	AA	AA	R 0510	VRS-TV1JD153J	S	15K 1/10W Metal Oxide	AA	AA
R 0304	VRS-TV1JD103J	S	10K 1/10W Metal Oxide	AA	AA	R 0511	VRS-TV1JD103J	S	10K 1/10W Metal Oxide	AA	AA
Δ R 0305	RR-XZ0204BMZZ	S	2.2 1/2W Fuse Resistor	AB	AA	Δ R 0512	RR-XZ0109BMZZ	S	5.6 1/3W Fuse Resistor	AB	AA
R 0306	VRS-TV1JD561J	S	560 1/10W Metal Oxide	AA	AA	R 0513	VRS-TV1JD182J	S	1.8K 1/10W Metal Oxide	AA	AA
R 0307	VRS-TV1JD104J	S	100K 1/10W Metal Oxide	AA	AA	R 0514	VRD-RA2BE103J	S	10K 1/8W Carbon	AA	AA
R 0308	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA	R 0515	VRS-TV1JD821J	S	820 1/10W Metal Oxide	AA	AA
R 0309	VRS-TV1JD103J	S	10K 1/10W Metal Oxide	AA	AA	R 0516	VRS-TV1JD472J	S	4.7K 1/10W Metal Oxide	AA	AA
R 0310	VRS-TV1JD471J	S	470 1/10W Metal Oxide	AA	AA	R 0518	VRD-RA2HD1R8J	S	1.8 1/2W Carbon		
R 0311	VRS-TV1JD471J	S	470 1/10W Metal Oxide	AA	AA				37FM14S/37FT16S	AA	AA
R 0312	VRD-RA2HD472J	S	4.7K 1/2W Carbon	AA	AA	R 0518.	VRD-RA2HD1R5J	S	1.5 1/2W Carbon 54FT16S	AA	AA
R 0313	VRD-RA2HD472J	S	4.7K 1/2W Carbon	AA	AA	R 0519	VRS-TV1JD103J	S	10K 1/10W Metal Oxide	AA	AA
R 0314	VRD-RA2HD472J	S	4.7K 1/2W Carbon	AA	AA	R 0520	VRS-TV1JD271J	S	270 1/10W Metal Oxide	AA	AA
R 0315	VRS-TV1JD821J	S	820 1/10W Metal Oxide	AA	AA	R 0524	VRS-TV1JD000J	S	Jumper	AA	AA
R 0316	VRD-RA2BE333J	S	33K 1/8W Carbon	AA	AA	R 0525	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA
R 0317	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA	R 0528	VRS-TV1JD184J	S	180K 1/10W Metal Oxide	AA	AA
R 0318	VRS-TV1JD153J	S	15K 1/10W Metal Oxide	AA	AA	R 0529	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA
R 0351	VRS-TV1JD563J	S	56K 1/10W Metal Oxide	AA	AA	R 0530	VRS-TV1JD332J	S	3.3K 1/10W Metal Oxide	AA	AA
R 0352	VRS-TV1JD103J	S	10K 1/10W Metal Oxide	AA	AA	R 0531	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 0354	VRS-TV1JD223J	S	22K 1/10W Metal Oxide	AA	AA	R 0532	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA
R 0355	VRS-TV1JD104J	S	100K 1/10W Metal Oxide	AA	AA	R 0533	VRS-TV1JD271J	S	270 1/10W Metal Oxide	AA	AA
R 0356	VRS-TV1JD681J	S	680 1/10W Metal Oxide	AA	AA	R 0601	VRS-TV1JD123J	S	12K 1/10W Metal Oxide	AA	AA
R 0357	VRS-TV1JD472J	S	4.7K 1/10W Metal Oxide	AA	AA	R 0602	VRD-RA2HD331J	S	330 1/2W Carbon	AA	AA
R 0358	VRS-TV1JD103J	S	10K 1/10W Metal Oxide	AA	AA	Δ R 0603	RR-XZ0200BMZZ	S	1 1/2W Fuse Resistor	AB	AA
R 0359	VRS-TV1JD563J	S	56K 1/10W Metal Oxide	AA	AA	R 0604	VRD-RA2EE6R8J	S	6.8 1/4W Carbon		
R 0360	VRS-TV1JD154J	S	150K 1/10W Metal Oxide	AA	AA				37FM14S/37FT16S	AA	AA
R 0361	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA	R 0604.	VRD-RA2HD1R5J	S	1.5 1/2W Carbon 54FT16S	AA	AA
R 0362	VRS-TV1JD222J	S	2.2K 1/10W Metal Oxide	AA	AA	R 0605	VRD-RA2EE5R6J	S	5.6 1/4W Carbon		
R 0363	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA				37FM14S/37FT16S	AA	AA
R 0364	VRS-TV1JD471J	S	470 1/10W Metal Oxide	AA	AA	R 0605.	VRD-RA2HD1R5J	S	1.5 1/2W Carbon 54FT16S	AA	AA
R 0365	VRD-RA2BE221J	S	220 1/8W Carbon	AA	AA	R 0606	VRD-RA2HD2R2J	S	2.2 1/2W Carbon	AA	AA
R 0366	VRD-RA2BE221J	S	220 1/8W Carbon	AA	AA	R 0607	VRD-RA2BE472J	S	4.7K 1/8W Carbon	AA	AA
R 0402	VRS-TV1JD104J	S	100K 1/10W Metal Oxide	AA	AA	R 0608	VRD-RA2BE222J	S	2.2K 1/8W Carbon	AA	AA
R 0403	VRS-TV1JD102J	S	1K 1/10W Metal Oxide			R 0609	VRN-VV3AB1R2J	S	1.2 1W Metal Film		
			37FM14S	AA	AA				37FM14S/37FT16S	AA	AA
R 0403.	VRS-TV1JD101J	S	100 1/10W Metal Oxide			R 0609.	VRN-VV3AB3R3J	S	3.3 1W Metal Film 54FT16S	AA	AA
			37/54FT16S	AA	AA	R 0610	VRD-RA2HD222J	S	2.2K 1/2W Carbon	AA	AA
R 0404	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA	Δ R 0611	RR-XZ0242BMZZ	S	3.3K 1/2W Fuse Resistor	AB	AA
R 0407	VRD-RA2HD470J	S	47 1/2W Carbon	AA	AA	R 0612	VRS-TV1JD153J	S	15K 1/10W Metal Oxide	AA	AA
R 0408	VRD-RA2BE221J	S	220 1/8W Carbon	AA	AA	R 0613	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 0410	VRD-RA2BE820J	S	82 1/8W Carbon	AA	AA	R 0615	VRS-TV1JD153J	S	15K 1/10W Metal Oxide	AA	AA
R 0412	VRS-TV1JD222J	S	2.2K 1/10W Metal Oxide	AA	AA	R 0616	VRS-VV3AB270J	S	27 1W Metal Oxide	AA	AA
R 0414	VRD-RA2BE820J	S	82 1/8W Carbon	AA	AA	R 0618	VRD-RA2HD102J	S	1K 1/2W Carbon	AA	AA
R 0415	VRS-TV1JD222J	S	2.2K 1/10W Metal Oxide	AA	AA	R 0619	VRS-VV3AB270J	S	27 1W Metal Oxide		
R 0416	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA				37FM14S/37FT16S	AA	AA
R 0417	VRD-RA2BE820J	S	82 1/8W Carbon	AA	AA	R 0619.	VRS-VV3DB220J	S	22 2W Metal Oxide 54FT16S	AA	AA
R 0418	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA	R 0620	VRD-RA2HD102J	S	1K 1/2W Carbon	AA	AA
R 0419	VRS-TV1JD222J	S	2.2K 1/10W Metal Oxide	AA	AA	R 0621	VRS-TV1JD103J	S	10K 1/10W Metal Oxide	AA	AA
R 0420	VRD-RA2BE820J	S	82 1/8W Carbon	AA	AA	R 0622	VRS-TV1JD153J	S	15K 1/10W Metal Oxide	AA	AA
R 0421	VRS-TV1JD470J	S	47 1/10W Metal Oxide	AA	AA	R 0623	VRS-TV1JD394J	S	390K 1/10W Metal Oxide		
R 0422	VRS-TV1JD104J	S	100K 1/10W Metal Oxide	AA	AA				37FM14S/37FT16S	AA	AA
R 0423	VRS-TV1JD472J	S	4.7K 1/10W Metal Oxide	AA	AA	R 0623.	VRS-TV1JD224J	S	220K 1/10W Metal Oxide		
R 0424	VRS-TV1JD103J	S	10K 1/10W Metal Oxide	AA	AA				54FT16S	AA	AA
R 0425	VRS-TV1JD104J	S	100K 1/10W Metal Oxide	AA	AA	R 0624	VRS-TV1JD684J	S	680K 1/10W Metal Oxide		
R 0426	VRS-TV1JD682J	S	6.8K 1/10W Metal Oxide	AA	AA				37FM14S/37FT16S	AA	AA
R 0427	VRS-TV1JD682J	S	6.8K 1/10W Metal Oxide	AA	AA	R 0624.	VRS-TV1JD564J	S	560K 1/10W Metal Oxide		
R 0428	VRS-TV1JD104J	S	100K 1/10W Metal Oxide	AA	AA				54FT16S	AA	AA
R 0434	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA	R 0632	VRD-RA2HD471J	S	470 1/2W Carbon	AA	AA
R 0435	VRS-TV1JD472J	S	4.7K 1/10W Metal Oxide	AA	AA	R 0633	VRS-TV1JD153J	S	15K 1/10W Metal Oxide	AA	AA
R 0436	VRS-TV1JD472J	S	4.7K 1/10W Metal Oxide	AA	AA	R 0702	VRD-RA2HD224J	S	220K 1/2W Carbon	AA	AA
R 0437	VRS-TV1JD472J	S	4.7K 1/10W Metal Oxide	AA	AA	R 0703	VRW-KP3HC5R6K	S	5.6 5W Cement	AC	AB
R 0500	VRS-TV1JD473J	S	47K 1/10W Metal Oxide	AA	AA	R 0704	VRD-RA2HD564J	S	560K 1/2W Carbon	AC	AB
R 0501	VRD-RA2HD102J	S	1K 1/2W Carbon	AA	AA	R 0705	VRD-RA2HD564J	S	560K 1/2W Carbon	AC	AB
R 0502	VRD-RA2HD182J	S	1.8K 1/2W Carbon	AA	AA						

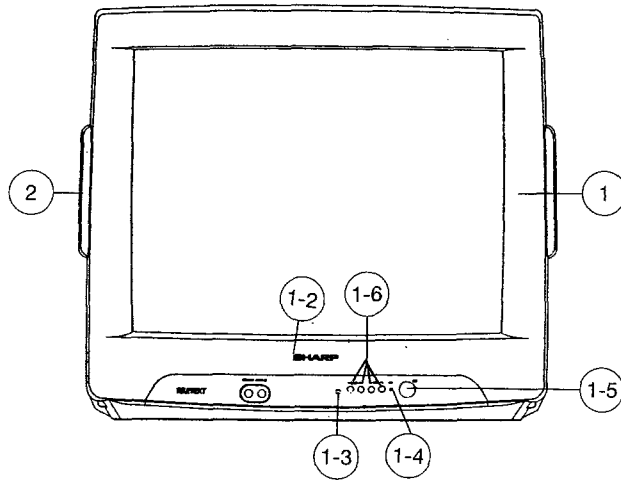
REF. NO	PARTS	★	DESCRIPTION	EX	SP	REF. NO	PARTS	★	DESCRIPTION	EX	SP
R 0706	VRN-VV3ABR47J	S	0.47 1W Metal Film 37FM14S/37FT16S	AA	AA	R 1008	VRD-RA2BE102J	S	1K 1/8W Carbon	AA	AA
R 0706.	VRN-VV3ABR27J	J	0.27 1W Metal Film 54FT16S	AA	AA	R 1009	VRS-TV1JD331J	S	330 1/10W Metal Oxide	AA	AA
R 0707	VRD-RA2BE221J	S	220 1/8W Carbon	AA	AA	R 1010	VRS-TV1JD391J	S	390 1/10W Metal Oxide 37FM14S	AA	AA
R 0708	VRD-RA2HD102J	S	1K 1/2W Carbon	AA	AA	R 1010.	VRS-TV1JD331J	S	330 1/10W Metal Oxide 37/54FT16S	AA	AA
R 0709	VRD-RA2BE330J	S	33 1/8W Carbon	AA	AA	R 1011	VRS-TV1JD391J	S	390 1/10W Metal Oxide 37FM14S	AA	AA
R 0710	VRD-RA2HD561J	S	560 1/2W Carbon 37FM14S/37FT16S	AA	AA	R 1011.	VRS-TV1JD331J	S	330 1/10W Metal Oxide 37/54FT16S	AA	AA
R 0710.	VRD-RA2HD102J	S	1K 1/2W Carbon 54FT16S	AA	AA	R 1013	VRS-TV1JD561J	S	560 1/10W Metal Oxide	AA	AA
R 0711	VRD-RA2BE561J	S	560 1/8W Carbon	AA	AA	R 1014	VRS-TV1JD104J	S	100K 1/10W Metal Oxide	AA	AA
R 0712	VRD-RA2EE561J	S	560 1/4W Carbon	AA	AA	R 1015	VRS-TV1JD223J	S	22K 1/10W Metal Oxide	AA	AA
R 0713	VRS-TV1JD220J	S	22 1/10W Metal Oxide	AA	AA	R 1016	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 0714	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA	R 1017	VRS-TV1JD473J	S	47K 1/10W Metal Oxide	AA	AA
R 0715	VRS-TV1JD681J	S	680 1/10W Metal Oxide 37FM14S/37FT16S	AA	AA	R 1018	VRS-TV1JD153J	S	15K 1/10W Metal Oxide	AA	AA
R 0715.	VRS-TV1JD152J	S	1.5K 1/10W Metal Oxide 54FT16S	AA	AA	R 1021	VRS-TV1JD223J	S	22K 1/10W Metal Oxide	AA	AA
R 0716	VRS-TV1JD273J	S	27K 1/10W Metal Oxide 37FM14S/37FT16S	AA	AA	R 1022	VRS-TV1JD103J	S	10K 1/10W Metal Oxide	AA	AA
R 0716.	VRS-TV1JD123J	S	12K 1/10W Metal Oxide 54FT16S	AA	AA	R 1024	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 0717	VRS-TV1JD4R7J	S	4.7 1/10W Metal Oxide	AA	AA	R 1026	VRS-TV1JD103J	S	10K 1/10W Metal Oxide	AA	AA
R 0718	VRS-TV1JD333J	S	33K 1/10W Metal Oxide	AA	AA	R 1027	VRS-TV1JD332J	S	3.3K 1/10W Metal Oxide	AA	AA
R 0719	VRD-RA2HD181J	S	180 1/2W Carbon	AA	AA	R 1028	VRS-TV1JD332J	S	3.3K 1/10W Metal Oxide	AA	AA
R 0720	VRD-RA2BE223J	S	22K 1/8W Carbon	AA	AA	R 1029	VRS-TV1JD103J	S	10K 1/10W Metal Oxide	AA	AA
ΔR 0721	VRC-UA2HG825K	S	8.2M 1/2W Solid	AA	AA	R 1030	VRD-RA2BE392J	S	3.9K 1/8W Carbon	AA	AA
ΔR 0722	VRC-UA2HG825K	S	8.2M 1/2W Solid	AA	AA	R 1034	VRS-TV1JD153J	S	15K 1/10W Metal Oxide	AA	AA
R 0724	VRS-TV1JD471J	S	470 1/10W Metal Oxide	AA	AA	R 1035	VRS-TV1JD223J	S	22K 1/10W Metal Oxide	AA	AA
R 0725	VRS-TV1JD222J	S	2.2K 1/10W Metal Oxide	AA	AA	R 1037	VRS-TV1JD103J	S	10K 1/10W Metal Oxide	AA	AA
R 0729	VRD-RA2EE472J	S	4.7K 1/4W Carbon	AA	AA	R 1038	VRS-TV1JD221J	S	220 1/10W Metal Oxide	AA	AA
R 0730	RR-XZ0204BMZZ	S	2.2 1/2W Fuse Resistor	AB	AA	R 1039	VRS-TV1JD221J	S	220 1/10W Metal Oxide	AA	AA
R 0731	VRS-TV1JD103J	S	10K 1/10W Metal Oxide	AA	AA	R 1041	VRS-TV1JD221J	S	220 1/10W Metal Oxide	AA	AA
R 0732	VRD-RA2HD122J	S	1.2K 1/2W Carbon	AA	AA	R 1048	VRD-RA2HD472J	S	4.7K 1/2W Carbon	AA	AA
R 0751	RR-XZ0224BMZZ	S	100 1/2W Fuse Resistor	AB	AA	R 1049	VRD-RA2HD472J	S	4.7K 1/2W Carbon	AA	AA
R 0752	VRD-RA2HD124J	S	120K 1/2W Carbon	AA	AA	R 1056	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 0753	VRD-RA2HD124J	S	120K 1/2W Carbon	AA	AA	R 1058	VRS-TV1JD472J	S	4.7K 1/10W Metal Oxide	AA	AA
R 0754	VRS-TV1JD223J	S	22K 1/10W Metal Oxide	AA	AA	R 1059	VRD-RA2HD472J	S	4.7K 1/2W Carbon	AA	AA
R 0755	VRS-TV1JD334J	S	330K 1/10W Metal Oxide	AA	AA	R 1066	VRS-TV1JD103J	S	10K 1/10W Metal Oxide	AA	AA
R 0756	VRS-TV1JD154J	S	150K 1/10W Metal Oxide	AA	AA	R 1068	VRS-TV1JD273J	S	27K 1/10W Metal Oxide	AA	AA
R 0757	VRS-TV1JD334J	S	330K 1/10W Metal Oxide	AA	AA	R 1069	VRS-TV1JD272J	S	2.7K 1/10W Metal Oxide	AA	AA
R 0758	VRS-TV1JD223J	S	22K 1/10W Metal Oxide	AA	AA	R 1072	VRS-TV1JD105J	S	1M 1/10W Metal Oxide	AA	AA
R 0760	VRS-TV1JD824J	S	820K 1/10W Metal Oxide	AA	AA	R 1073	VRS-TV1JD222J	S	2.2K 1/10W Metal Oxide	AA	AA
R 0801	VRS-TV1JD104J	S	100K 1/10W Metal Oxide	AA	AA	R 1075	VRS-TV1JD103J	S	10K 1/10W Metal Oxide	AA	AA
R 0802	VRS-TV1JD221J	S	220 1/10W Metal Oxide	AA	AA	R 1077	VRS-TV1JD472J	S	4.7K 1/10W Metal Oxide	AA	AA
R 0803	VRS-TV1JD4R7J	S	4.7 1/10W Metal Oxide	AA	AA	R 1078	VRS-TV1JD271J	S	270 1/10W Metal Oxide	AA	AA
R 0804	VRS-TV1JD393J	S	39K 1/10W Metal Oxide	AA	AA	R 1079	VRS-TV1JD000J	S	Jumper	AA	AA
R 0805	VRS-TV1JD395J	S	3.9M 1/10W Metal Oxide	AA	AA	R 1080	VRS-TV1JD332J	S	3.3K 1/10W Metal Oxide	AA	AA
R 0806	VRS-TV1JD2R2J	S	2.2 1/10W Metal Oxide	AA	AA	R 1081	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 0807	VRS-TV1JD221J	S	220 1/10W Metal Oxide	AA	AA	R 1082	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA
R 0809	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA	R 1083	VRD-RA2BE331J	S	330 1/8W Carbon	AA	AA
R 0810	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA	R 1085	VRD-RA2BE101J	S	100 1/8W Carbon	AA	AA
R 0814	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA	R 1090	VRD-RA2BE472J	S	4.7K 1/8W Carbon	AA	AA
R 0815	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA	R 1092	VRD-RA2BE472J	S	4.7K 1/8W Carbon	AA	AA
R 0816	VRS-TV1JD101J	S	100 1/10W Metal Oxide	AA	AA	RJ 0042	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA
R 0823	VRS-TV1JD820J	S	82 1/10W Metal Oxide	AA	AA	D 0753	VRS-TQ2BD120J	S	12 1/8W Metal Oxide	AA	AA
R 0825	VRS-TV1JD682J	S	6.8K 1/10W Metal Oxide	AA	AA	MISCELLANEOUS PARTS					
R 0834	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA	Δ F 0701	QFS-C3226CEZZ	S	Fuse 3.15A/250V	AE	AC
R 0836	VRD-RA2BE681J	S	680 1/8W Carbon	AA	AA	Δ S 0701	QSW-P0588CEZZ	S	Main Switch	AM	AH
R 0837	VRS-TV1JD000J	S	Jumper	AA	AA	S 1001	QSW-K0079GEZZ	S	Switch	AB	AA
R 0838	VRS-TV1JD821J	S	820 1/10W Metal Oxide	AA	AA	S 1002	QSW-K0079GEZZ	S	Switch	AB	AA
R 0901	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA	S 1003	QSW-K0079GEZZ	S	Switch	AB	AA
R 0902	VRS-TV1JD221J	S	220 1/10W Metal Oxide	AA	AA	S 1004	QSW-K0079GEZZ	S	Switch	AB	AA
R 0903	VRD-RA2BE470J	S	47 1/8W Carbon	AA	AA	FB 0201	RBLN-0037CEZZ	S	Ferrite Bead	AB	AB
R 0904	VRS-TV1JD000J	S	Jumper	AA	AA	FB 0301	RBLN-0037CEZZ	S	Ferrite Bead	AB	AB
R 1001	VRS-TV1JD472J	S	4.7K 1/10W Metal Oxide	AA	AA	FB 0304	RBLN-0037CEZZ	S	Ferrite Bead	AB	AB
R 1002	VRS-TV1JD472J	S	4.7K 1/10W Metal Oxide	AA	AA	FB 0351	RBLN-0037CEZZ	S	Ferrite Bead	AB	AB
R 1003	VRS-TV1JD103J	S	10K 1/10W Metal Oxide	AA	AA	FB 0601	RBLN-0037CEZZ	S	Ferrite Bead	AB	AB
R 1004	VRS-TV1JD392J	S	3.9K 1/10W Metal Oxide	AA	AA	FB 1001	RBLN-0037CEZZ	S	Ferrite Bead	AB	AB
R 1005	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA	FB 1002	RBLN-0037CEZZ	S	Ferrite Bead	AB	AB
R 1006	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA	FB 1003	RBLN-0037CEZZ	S	Ferrite Bead	AB	AB
R 1007	VRS-TV1JD102J	S	1K 1/10W Metal Oxide	AA	AA	FH 1001	QFSDH1013CEZZ	S	Fuse Holder	AA	AA
						FH 1002	QFSDH1014CEZZ	S	Fuse Holder	AA	AA

REF. NO	PARTS	★	DESCRIPTION	EX	SP	REF. NO	PARTS	★	DESCRIPTION	EX	SP
RMC0001 J 0301 J 0401 QSOC22	RRMCU0222CEZZ QJAKJ0047CEZZ QJAKF0014CEZZ 07BMZZ	S S S S	Remote Control Receiver Earphone Jack Front A / V A / V Connector	AG AG AE AE	AD AA AC AF	R 0887 R 0888 R 0892 R 0893 R 0894 R 0895 R 0896 R 0898 R 0899	VRD-RA2HD272J VRS-TV1JD471J VRS-TV1JD102J VRS-TV1JD102J VRS-TV1JD102J VRS-TV1JD471J VRS-TV1JD471J VRS-TV1JD471J VRS-TV1JD471J	S S S S S S S S S	2.7K 1/2W Carbon 470 1/10W Metal Oxide 1K 1/10W Metal Oxide 1K 1/10W Metal Oxide 1K 1/10W Metal Oxide 470 1/10W Metal Oxide 470 1/10W Metal Oxide 470 1/10W Metal Oxide 470 1/10W Metal Oxide	AA AA AA AA AA AA AA AA AA	AA AA AA AA AA AA AA AA AA
<b>PWB-B SOCKET UNIT</b>											
TRANSISTORS											
Q 0870 Q 0871 Q 0872 Q 0883 Q 0885 Q 0887	RH-TX0181BMZZ RH-TX0181BMZZ RH-TX0181BMZZ RH-TX0180BMZZ RH-TX0180BMZZ RH-TX0180BMZZ	S S S S S S	BF422 BF422 BF422 BF421 BF421 BF421	AC AC AC AB AB AB	AA AA AA AA AA AA	MISCELLANEOUS PARTS					
						Δ	QSOCV0842CEZZ	S	C.R.T. Socket 37FM14S/37FT16S	AG	AD
						Δ	QSOCV0103BMZZ	S	C.R.T. Socket 54FT16S	AG	AD
DIODES						MISCELLANEOUS PARTS					
D 0811 D 0812 D 0880 D 0881 D 0882	RH-DX0045BMZZ RH-DX0045BMZZ RH-DX0045BMZZ RH-DX0045BMZZ RH-DX0045BMZZ	S S S S S	1N4148 1N4148 1N4148 1N4148 1N4148	AA AA AA AA AA	AA AA AA AA AA	Δ	CACCZ2049WEV5 VSP0080PBL6YS VSP0010PBQ4WA RRMCG1059BMSA RRMCG1060BMSA TINS-6735BMNO TINS-6746BMNO TINS-6736BMNO QANTR0081CEZZ	S S S S S S S S S	A.C. Cord Speaker 37FM14S/37FT16S Speaker 54FT16S Remote Control 37FM14S Remote Control 37/54FT16S Operation Manual 37FM14S Operation Manual 37FT16S Operation Manual 54FT16S Antenna 37FM14S/37FT16S	AR AH AR AS AU AV AW AP	AK AE AK AL AM AN AN AN AP
COILS											
L 0881	VP-CF120K0000	S	12μH	AC	AB	CABINET PARTS					
CAPACITORS											
C 0871 C 0872 C 0873 C 0874 C 0876 C 0878 C 0880 C 0881 C 0882	VCCSTV1HL471J VCCSTV1HL471J VCCSTV1HL471J VCKYPA2HB102K VCKYPB3DE472Z VCEAGA2DW106M VCCSTV1HL471J VCCSTV1HL471J VCCSTV1HL471J	S S S S S S S S S	470p 50V Ceramic 470p 50V Ceramic 470p 50V Ceramic 1000p 500V Ceramic 4700p 2KV Ceramic 10 200V Electrolytic 470p 50V Ceramic 470p 50V Ceramic 470p 50V Ceramic	AA AA AA AA AC AC AA AA AA	AA AA AA AA AA AB AA AA AA	1	CCABA1252BMV0	S	Front Cabinet 37FM14S/37FT16S		
						1	CCABA1271BMV0	S	Front Cabinet 54FT16S	BF	AY
						1 - 2	HBDGB1017BMSA	S	Badge 37FM14S/37FT16S	AC	AB
						1 - 2	HBDGB3509BMSA	S	Badge 54FT16S	AC	AB
						1 - 3	HDECQ0049BMSA	S	Window R/C 37FM14S/37FT16S	AB	AA
						1 - 3	HDECQ0023BMSA	S	Window R/C 54FT16S	AB	AA
						1 - 4	HDECQ0048BMSA	S	Window Power 37FM14S/37FT16S	AB	AA
						1 - 4	HDECQ0024BMSA	S	Window Power 54FT16S	AB	AA
						1 - 5	JBTN-1060BMSA	S	Button Power 37FM14S/37FT16S	AB	AA
						1 - 5	JBTN-1040BMSA	S	Button Power 54FT16S	AB	AA
						1 - 6	JBTN-1061BMSA	S	Button Up/Down 37FM14S/37FT16S	AC	AA
						1 - 6	JBTN-1041BMSA	S	Button Up/Down 54FT16S	AC	AB
						2	GCABB1067BMKA	S	Rear Cabinet 37FM14S/37FT16S	AU	AM
						2	GCABB1069BMKA	S	Rear Cabinet 54FT16S	AZ	AS
RESISTORS											
R 0879 R 0880 R 0881 R 0882 R 0883 R 0884 R 0885 R 0886	VRS-TV1JD471J VRS-TV1JD471J VRS-TV1JD471J VRS-VV3DB153J VRD-RA2HD272J VRS-VV3DB153J VRD-RA2HD272J VRS-VV3DB153J	S S S S S S S S	470 1/10W Metal Oxide 470 1/10W Metal Oxide 470 1/10W Metal Oxide 15K 2W Metal Oxide 2.7K 1/2W Carbon 15K 2W Metal Oxide 2.7K 1/2W Carbon 15K 2W Metal Oxide	AA AA AA AA AA AA AA AA	AA AA AA AA AA AA AA AA						

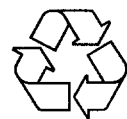
37FM-14S  
37FT-16S



54FT-16S



# SHARP



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