

# KX-2501

## SERVICE MANUAL

US Model  
Chassis No. SCC-383A-A



October, 1981

## HF CHASSIS

The adjustment procedures are not contained in this manual.  
When performing the adjustments, refer to the separate-volume "ADJUSTMENT MANUAL".

### SPECIFICATIONS

Color system	NTSC	Output	SPEAKER
Picture tube	Trinitron tube 25-inch picture measured diagonally, 114-degree deflection	Power requirements	Accepts speakers of 8-16 ohms
Inputs	VIDEO INPUT (phono jack) 1 V p-p, NTSC, 75 ohms, unbalanced, sync negative AUDIO INPUT (2 phono jacks) -5 dBs (436 mV rms), 47 kilohms CONTROL INPUT (minijack) 5V p-p MULTI INPUT (8-pin DIN) Same as the above VIDEO/AUDIO/CONTROL INPUTS	Power consumption	120V ac, 60 Hz 180 W (max.) 132 W (average) 1.8W (in standby condition)
		AC outlet	Switched, max. 200 W
		Dimensions	Approx. 660 x 560 x 487 mm (w/h/d) (26 x 22 1/8 x 19 1/4 inches)
		Weight	Approx. 55 kg (121 lb 4 oz)
		Accessories supplied	Video Cable VMC-1S (phono plug to phono plug, 1.2 m) Connecting Cord RK-105A (miniplug to 2 phono plugs, 1.5 m) 34-pin socket 1 set

- Continued on next page -



MON

TRINITRON®  
COMPONENT TV  
SONY®

RGB MULTI INPUT (34-pin plug)


Pin No.	Signal	Signal level
21	Level select	High state (open): for 1 V p-p Low state (ground): for TTL level
25 26 27	Red input Green input Blue input	Positive polarity ● 1 V p-p $\pm 3$ dB, 75 ohms terminated, superimposed dc component 0-2 V ● TTL level ● ● or ● is selected by the pin 21.
29	Blanking input	Positive polarity High state (1-3 V), 75 ohms terminated Low state (0-0.4 V), 75 ohms terminated ● Displays RGB inputs only at high state, or RGB inputs superimposed directly on composite video inputs at low state.
30	Composite sync or H sync	Negative polarity ● 1 V p-p $\pm 3$ dB, 75 ohms terminated, superimposed dc component 0-2 V ● TTL level ● ● or ● is selected by the pin 21.
31	V sync	Negative polarity TTL level
32	Half blanking	Positive polarity TTL level ● Active with the blanking input at low state. ● Decreases the contrast of the composite video inputs in superimposed mode.
33	Normal/RGB select	High state (10-12 V): RGB inputs Low state (0-2 V): Normal composite input ● The NORMAL/RGB button on the front panel does not function at high state.
3-13, 15, 16	Ground	
1, 2, 14, 17-20, 22-24, 28, 34	Not in use	

Design and specifications subject to change without notice.

**WARNING !!**

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS. THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

**SAFETY-RELATED COMPONENT WARNING !!**

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

**SAFETY CHECK-OUT**

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any).  
Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
9. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

**LEAKAGE TEST**

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

**HOW TO FIND A GOOD EARTH GROUND**

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

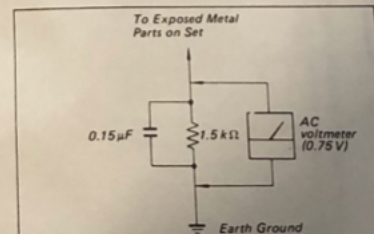


Fig. A. Using an AC voltmeter to check AC leakage.

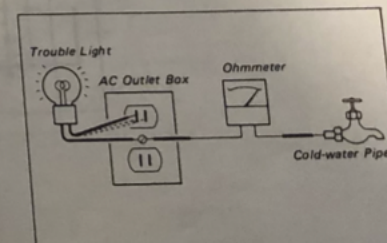
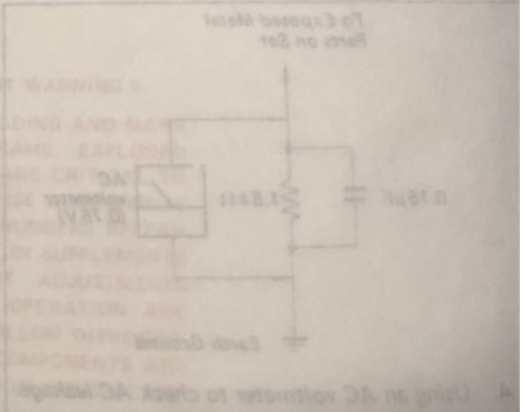
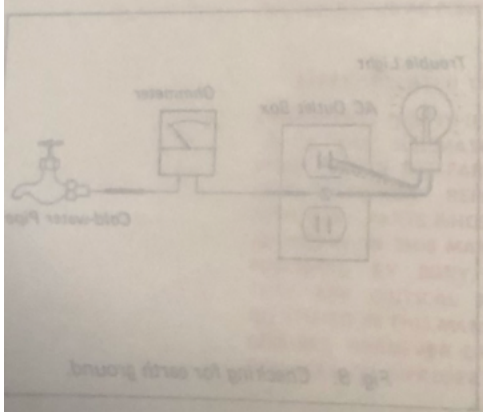
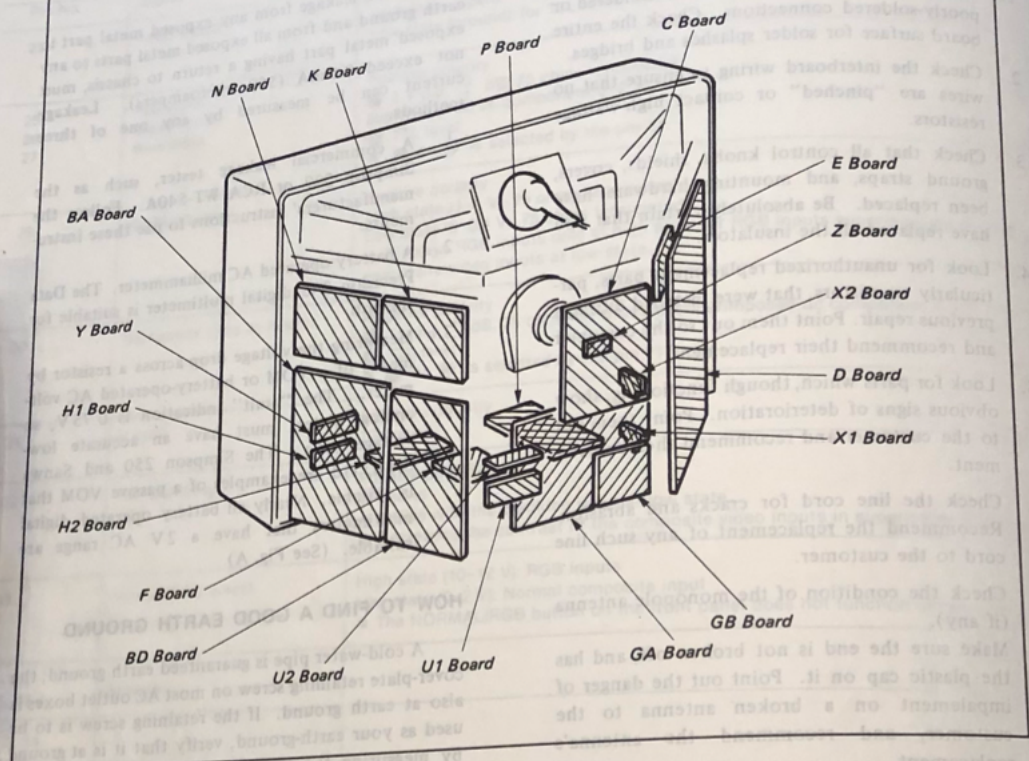


Fig. B. Checking for earth ground.



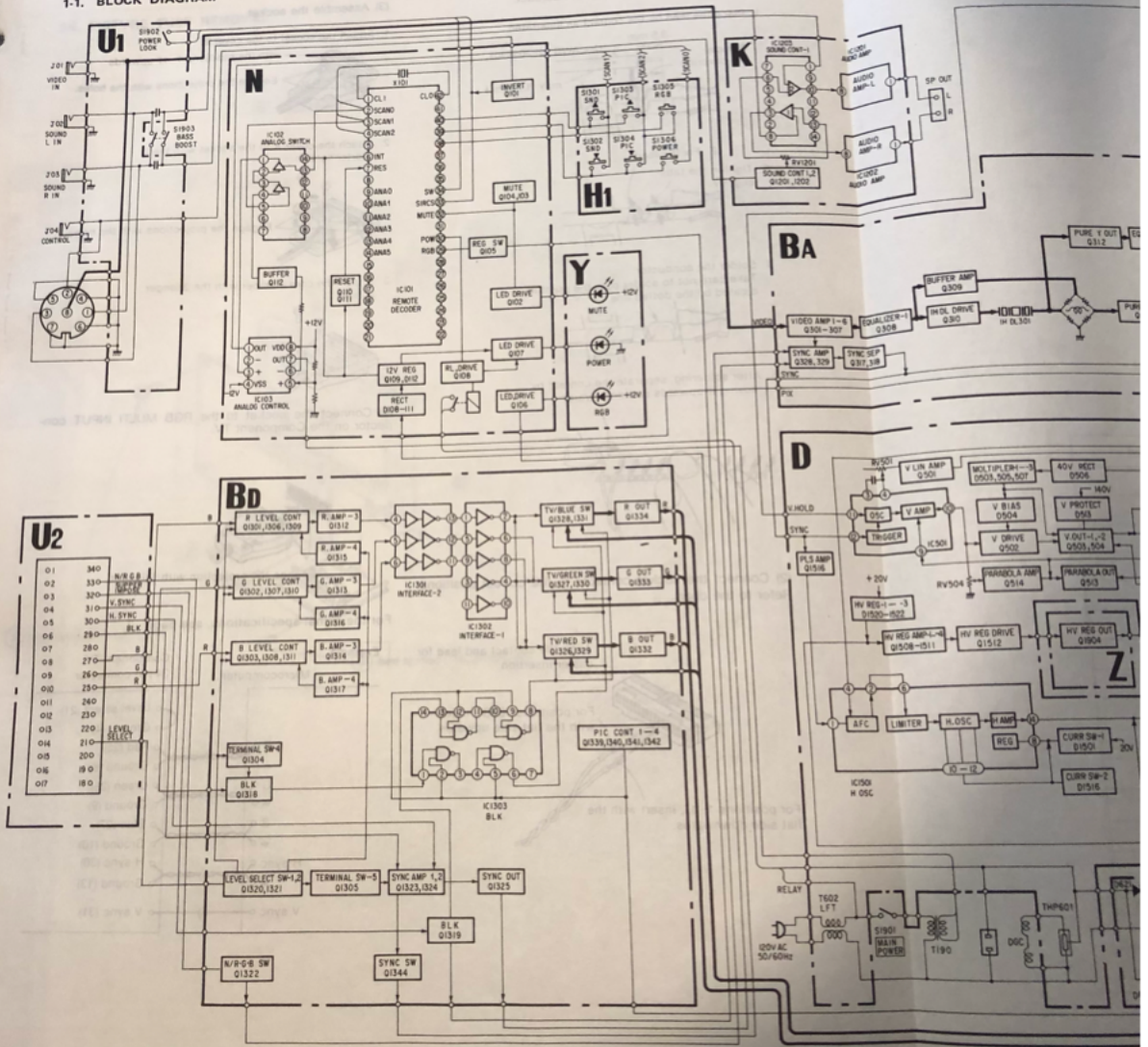
**SAFETY CHECK-OUT**

**CIRCUIT BOARDS LOCATION**

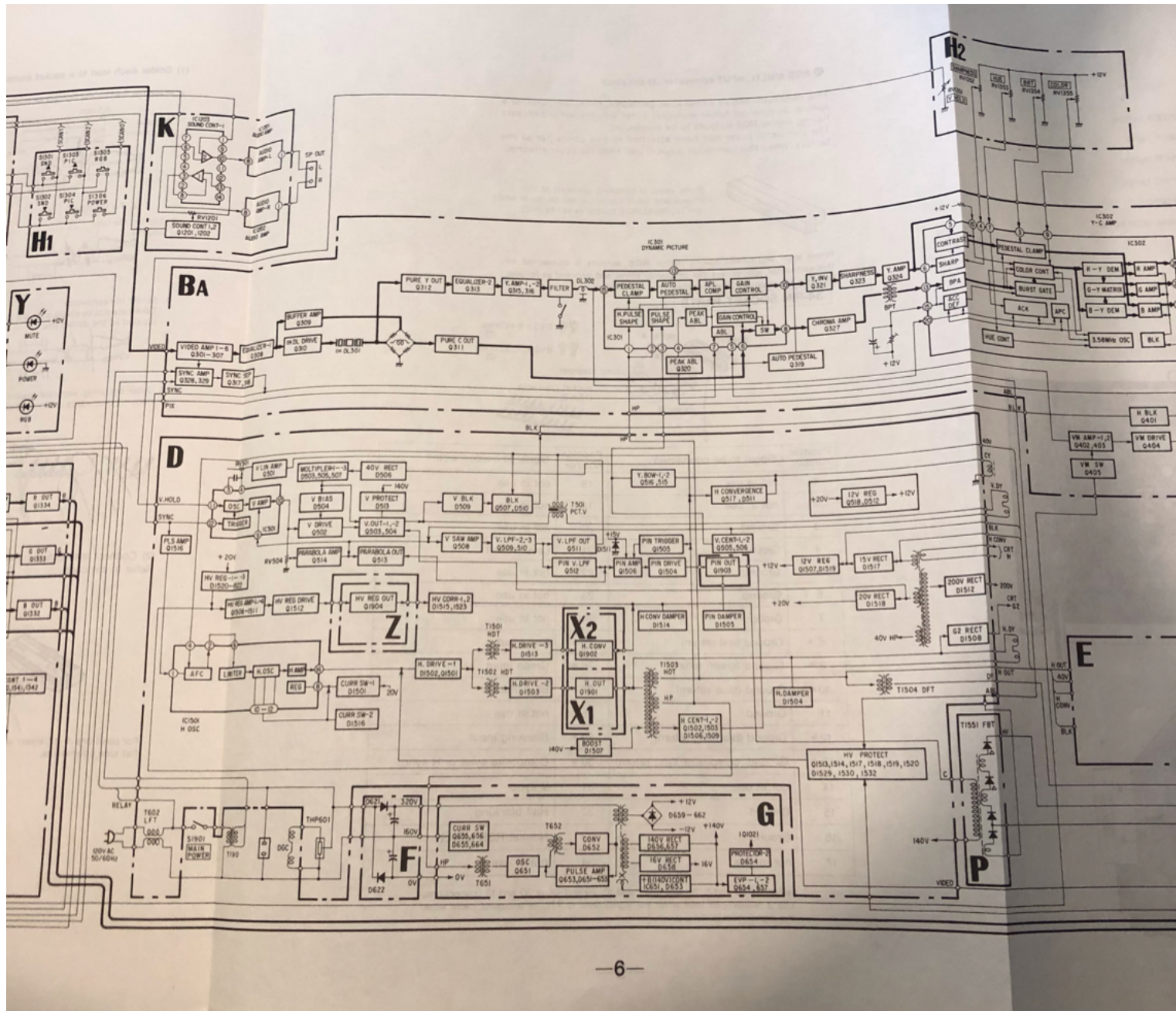


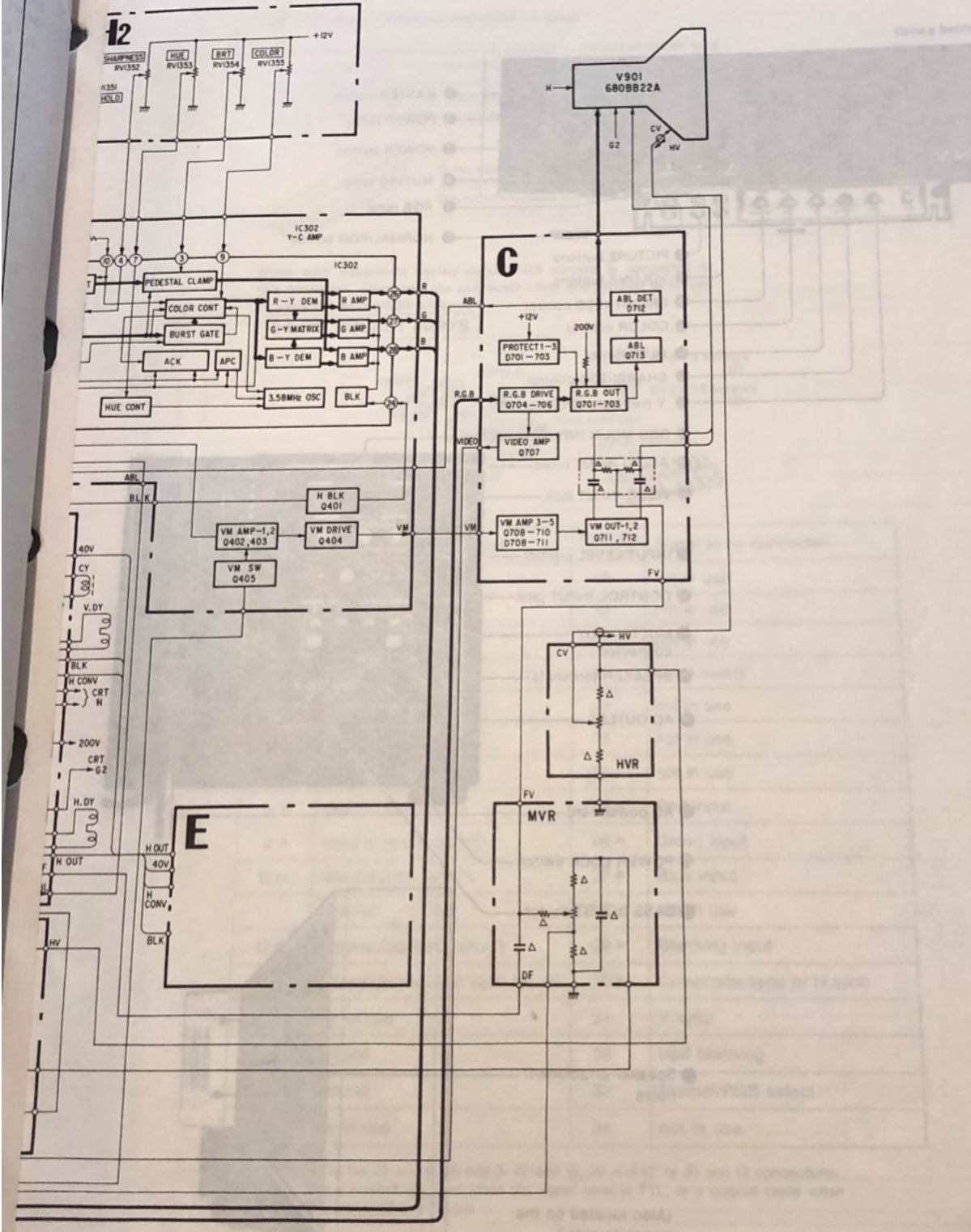
# SECTION 1 OUTLINE

1-1. BLOCK DIAGRAM



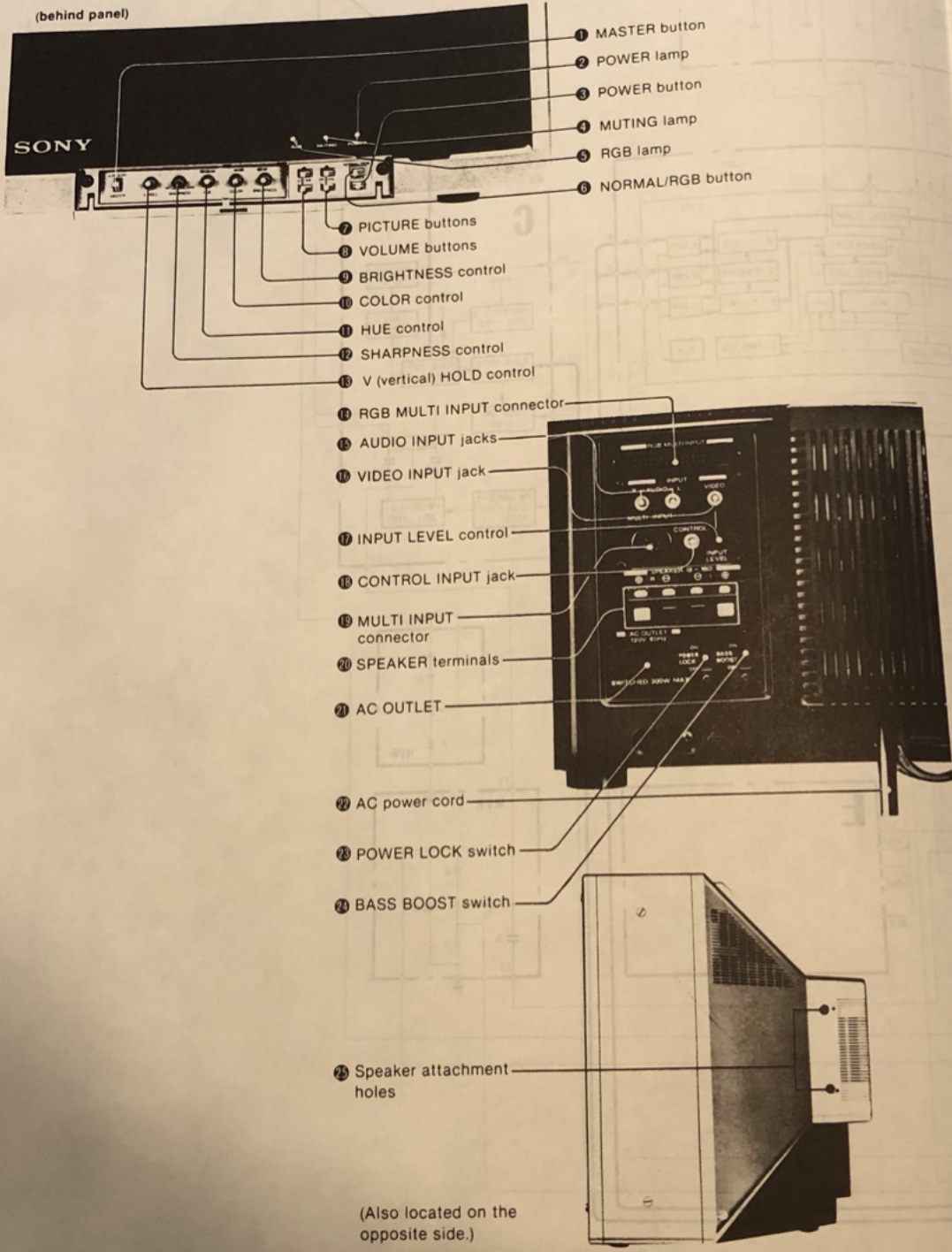






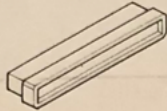


# LOCATION AND FUNCTION OF PARTS AND CONTROLS



**RGB MULTI INPUT connector (34-pin plug)**

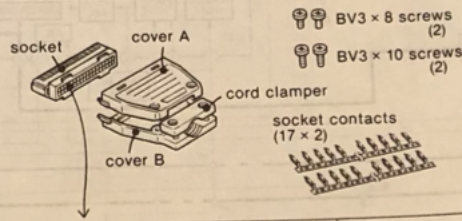
This connector allows a character generator, microcomputer, or a special adaptor for future multiplex letter information broadcasts having digital RGB outputs to be connected. The connector cover has been attached to this connector at the factory. When this connector is not in use, keep the cover attached.



If the cover is removed, blanking of the composite video signal cannot be made when the NORMAL/RGB button is set to RGB.

When such equipment having digital RGB outputs is connected to this connector, disconnect the connector cover and proceed as follows by using the supplied 34-pin socket.

**34-PIN SOCKET PARTS**

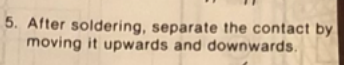
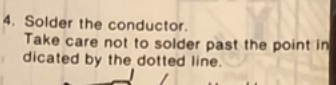
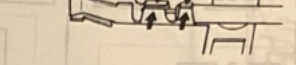
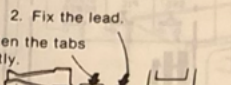
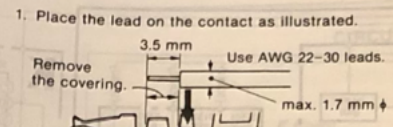


Position number	Signal to be connected	Position number	Signal to be connected
1	not in use	18	not in use
2	not in use	19	not in use
3	Ground	20	not in use
4	Ground	21	Level select
5	Ground	22	not in use
6	Ground	23	not in use
7	Ground	24	not in use
8 *	Ground (red return)	25 *	Red input
9 *	Ground (green return)	26 *	Green input
10 *	Ground (blue return)	27 *	Blue input
11	Ground	28	not in use
12 *	Ground (blanking return)	29 *	Blanking input
13 *	Ground (composite sync return)	30 *	Composite sync or H sync
14	not in use	31	V sync
15	Ground	32	Half blanking
16	Ground	33	Normal/RGB select
17	not in use	34	not in use

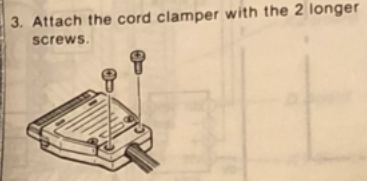
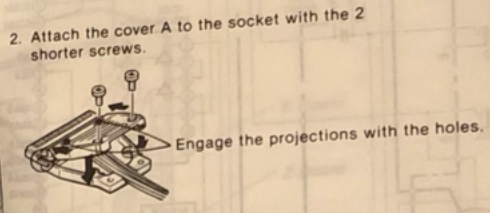
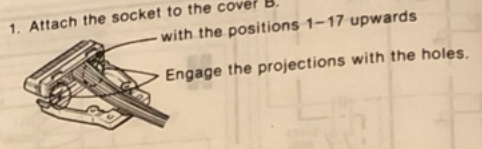
\* For No. 25 and 8, 26 and 9, 27 and 10, 29 and 12, or 30 and 13 connections, use a twisted-pair lead when the signal level is TTL, or a coaxial cable when the signal level is 1V p-p.



(1) Solder each lead to a socket contact.



(3) Assemble the socket.



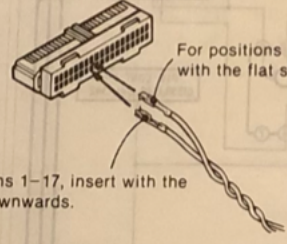
(4) Connect the socket to the RGB MULTI INPUT connector on the Component TV.



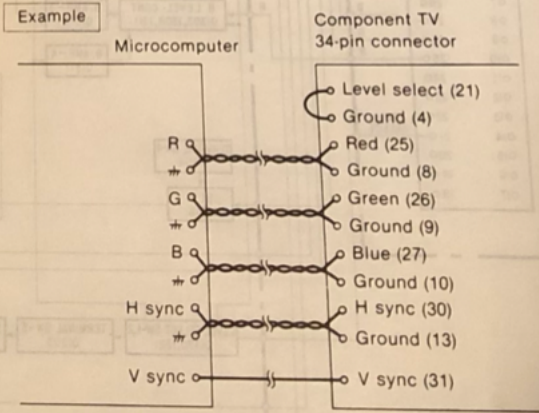
Engage the projection with this slot.

(2) Connect the socket contacts to the correct positions. Refer to the chart.

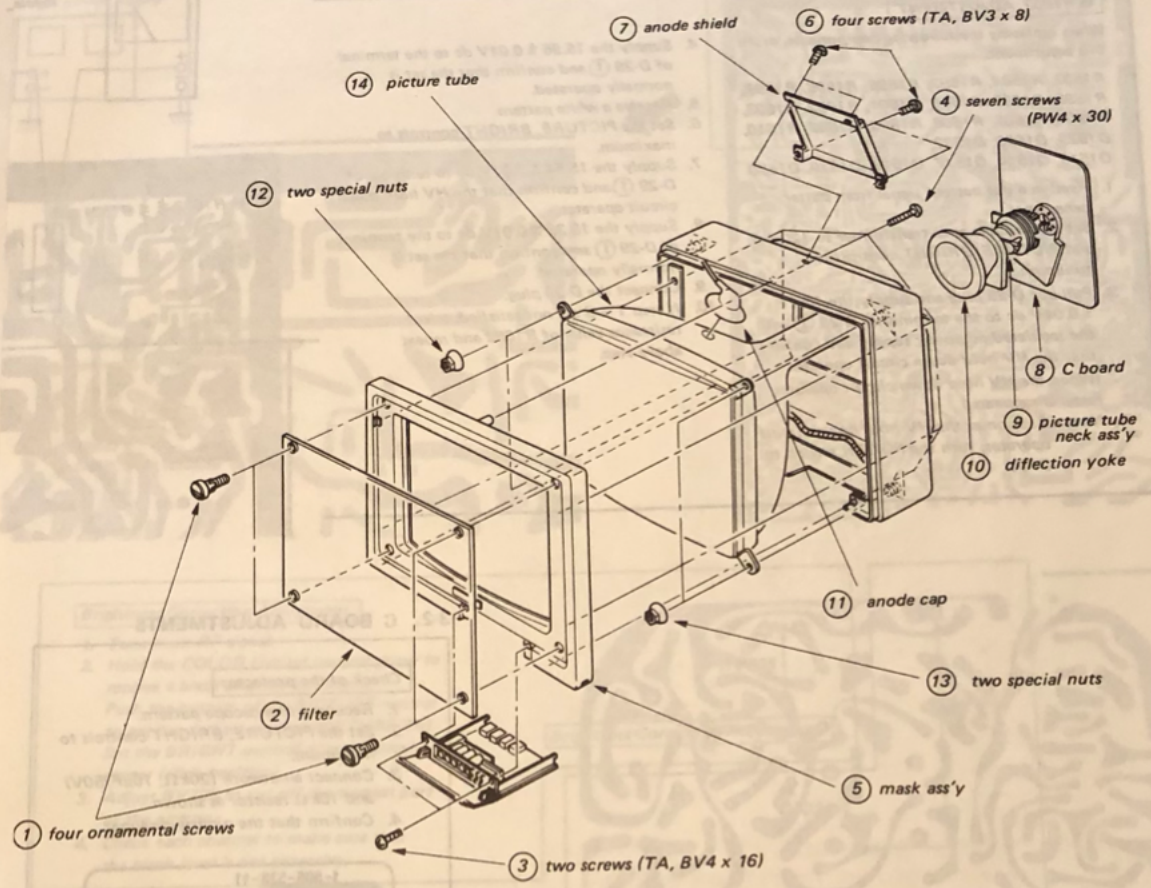
Align the contact and lead for easier insertion.



For the signal specifications, see page 2.



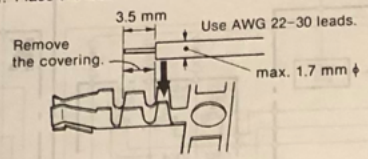
2-6. PICTURE TUBE REMOVAL



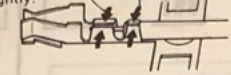


(1) Solder each lead to a socket contact.

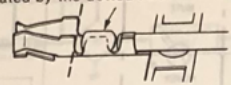
1. Place the lead on the contact as illustrated.



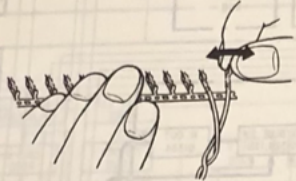
2. Fix the lead.
3. Tighten the tabs slightly.



4. Solder the conductor. Take care not to solder past the point indicated by the dotted line.

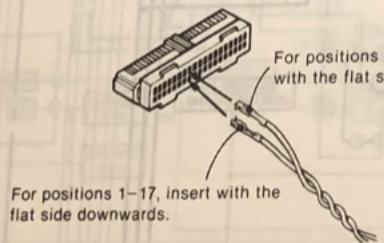


5. After soldering, separate the contact by moving it upwards and downwards.



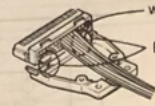
(2) Connect the socket contacts to the correct positions. Refer to the chart.

Align the contact and lead for easier insertion.

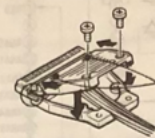


(3) Assemble the socket.

1. Attach the socket to the cover B. with the positions 1-17 upwards Engage the projections with the holes.



2. Attach the cover A to the socket with the 2 shorter screws. Engage the projections with the holes.



3. Attach the cord clamber with the 2 longer screws.

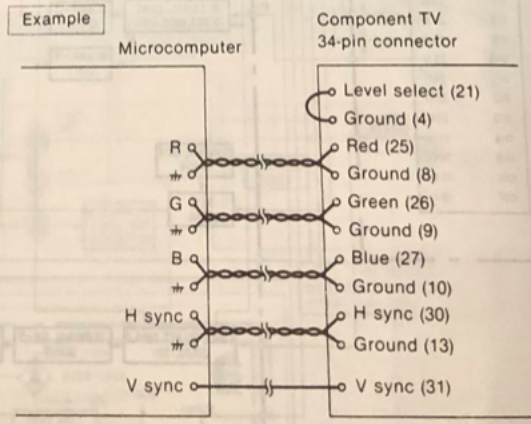


(4) Connect the socket to the RGB MULTI INPUT connector on the Component TV.

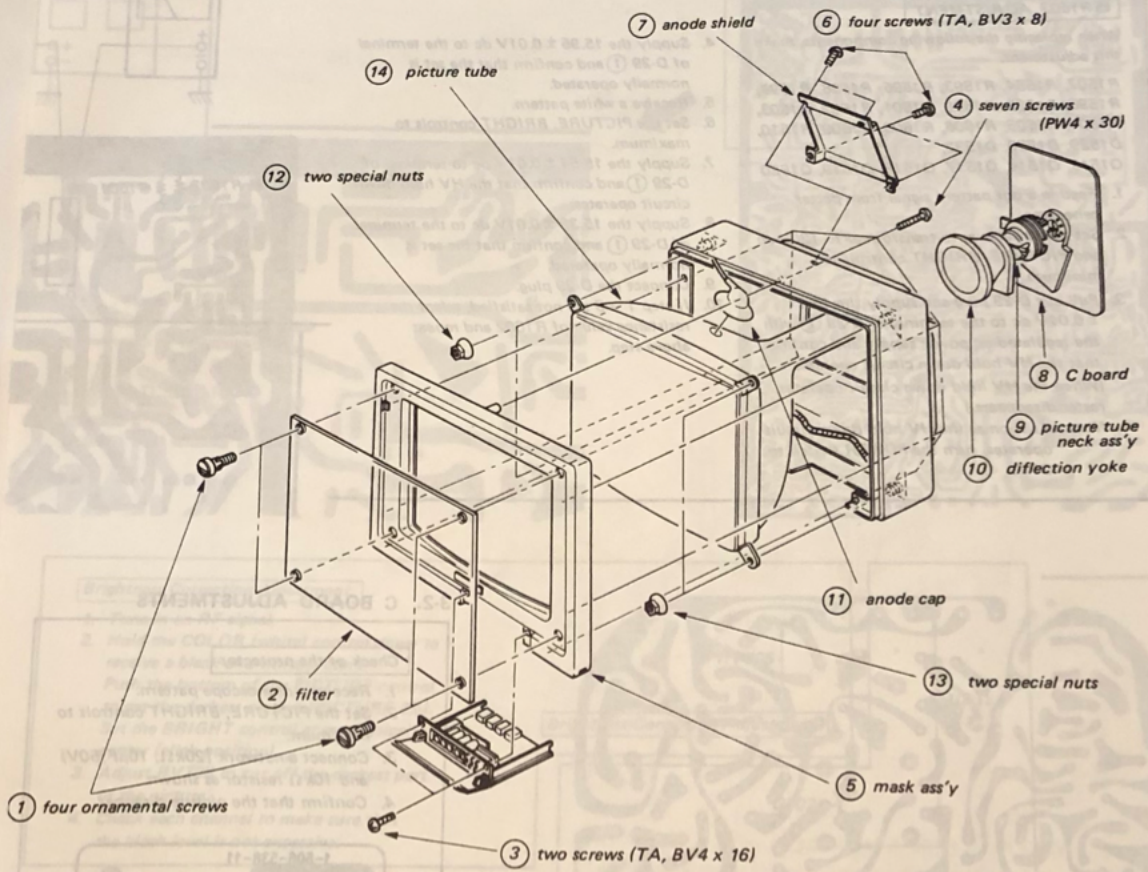


Engage the projection with this slot.

For the signal specifications, see page 2.



2-6. PICTURE TUBE REMOVAL

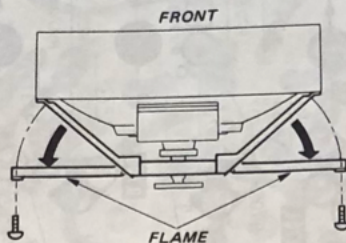




SECTION 2  
DISASSEMBLY

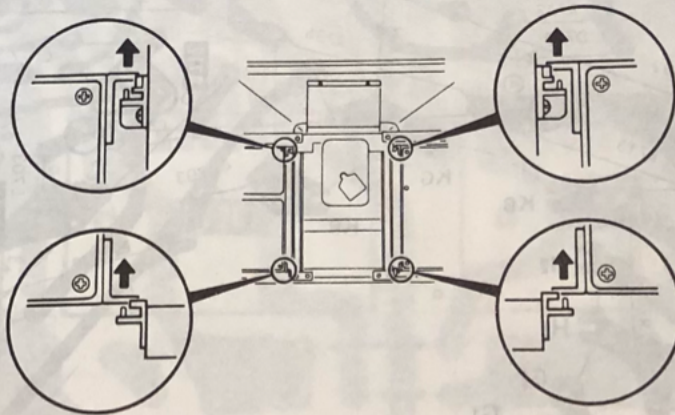
2-1. CIRCUIT BOARD CHECKING PROCESS (1)

Unscrew the two screws on each board frame, and open them as shown.

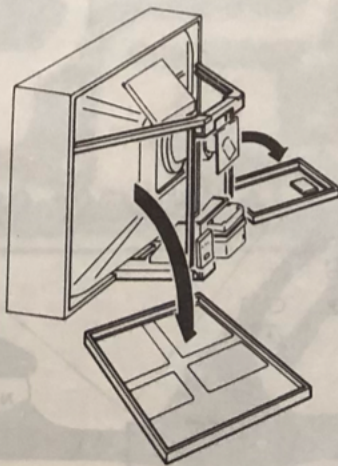


2-2. CIRCUIT BOARD CHECKING PROCESS (2)

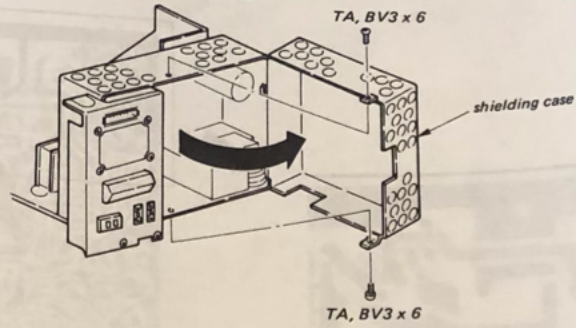
Then, lift each board up releasing the hinges as shown below.



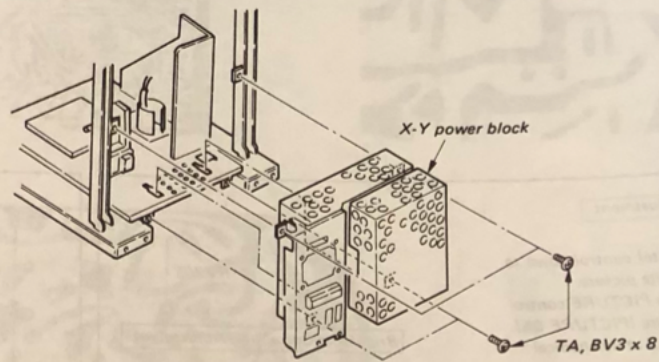
Place the boards on the table surface as shown.



2.3. OPEN THE SHIELDING CASE AS SHOWN

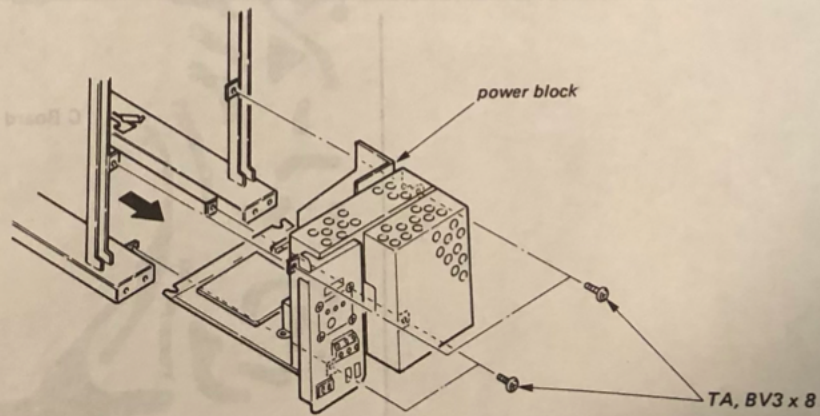


2.4. X-Y POWER BLOCK REMOVAL



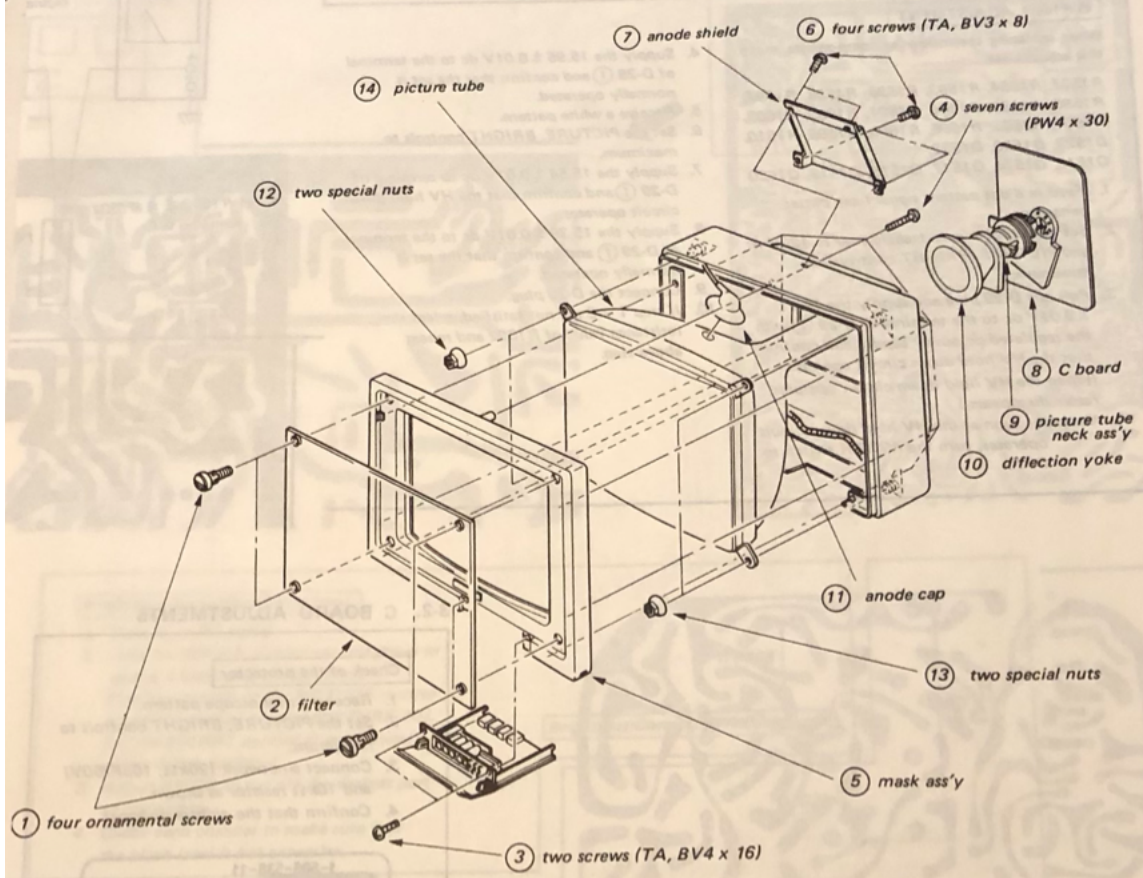
2.5. POWER BLOCK REMOVAL

Take out the heat sink, rear panel assembly, FBT, power transformer, and the X-Y power block by pulling them backward as shown.





2-6. PICTURE TUBE REMOVAL



## SECTION 3 ADJUSTMENTS

### 3-1. D BOARD ADJUSTMENT

#### R1602 ADJUSTMENT

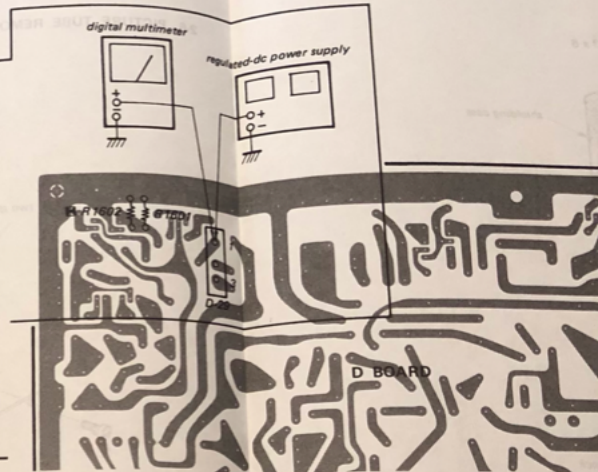
When replacing the following components, make this adjustment.

R1507, R1584, R1593, R1595, R1596, R1597, R1598, R1599, R1600, R1601, R1602, R1603, R1604, R1605, R1606, R1608, R1609, R1610, D1529, D1530, D1532, Q1513, Q1514, Q1517, Q1518, Q1519, Q1520

1. Feed in a dot pattern signal from patter generator.
2. Set the variable auto-transformer to 120V ac and PICTURE, BRIGHT controls to minimum.
3. Pull out D-29 plug and supply the 16.11  $\pm$  0.01V dc to the terminal of D-29 (1) with the regulated-dc power supply and confirm that the HV hold down circuit operates. (When the HV hold down circuit operates, raster disappears.)

Note: As soon as the HV hold down circuit operates, turn the POWER switch to OFF.

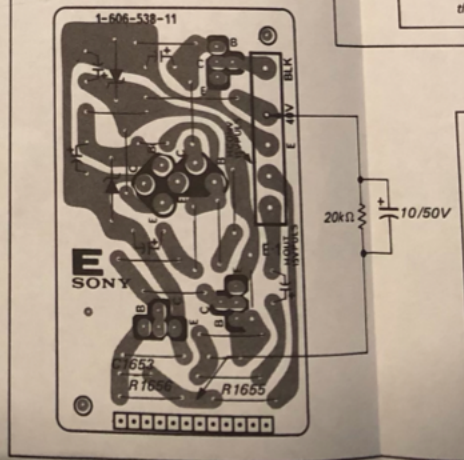
4. Supply the 15.95  $\pm$  0.01V dc to the terminal of D-29 (1) and confirm that the set is normally operated.
5. Receive a white pattern.
6. Set the PICTURE, BRIGHT controls to maximum.
7. Supply the 15.54  $\pm$  0.01V dc to terminal of D-29 (1) and confirm that the HV hold down circuit operates.
8. Supply the 15.39  $\pm$  0.01V dc to the terminal of D-29 (1) and confirm that the set is normally operated.
9. Connect the D-29 plug.
10. If step 1 - 8 are not satisfied, select the resistance value of R1602 and repeat above step.



### 3-2. C BOARD ADJUSTMENTS

#### Check of the protector

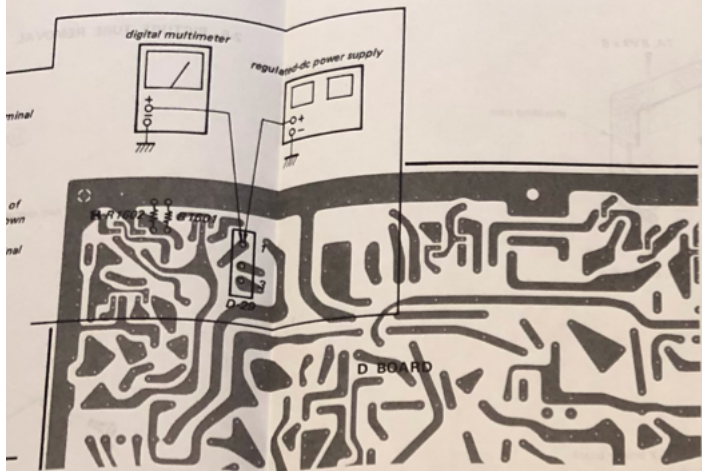
1. Receive a monoscope pattern.
2. Set the PICTURE, BRIGHT controls to maximum.
3. Connect a network (20k $\Omega$ , 10 $\mu$ F/50V) and 10k $\Omega$  resistor as shown.
4. Confirm that the picture disappear.



#### Brightness Correction Adjustment

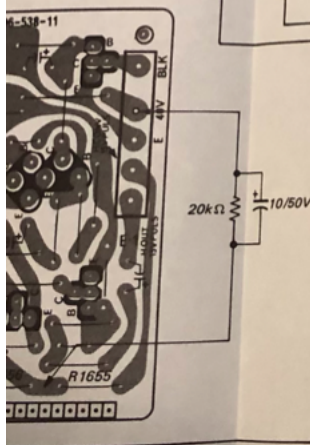
1. Tune in an RF signal.
2. Hold the COLOR (white) control down to receive a black-and-white picture. Push the bottom of the PICTURE control to get the darkest picture (PICTURE 0%). Set the BRIGHT control at mechanical center (click position).
3. Adjust RV705 to cut off the darkest part of the picture.
4. Check each channel to make sure that the black level is not excessive.





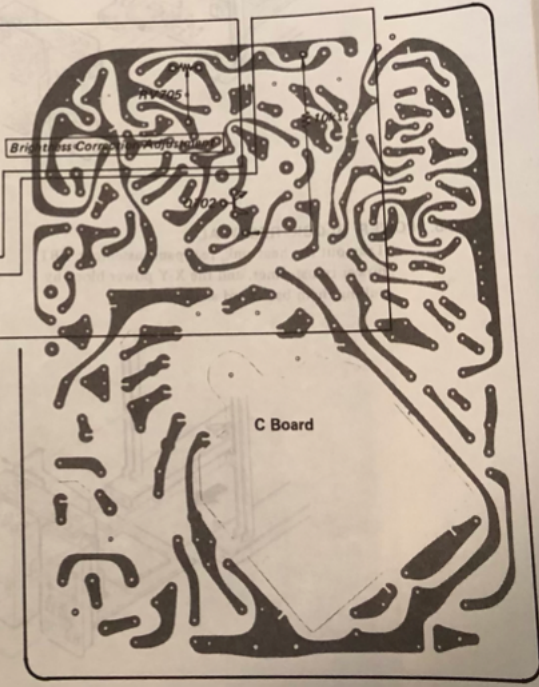
**BOARD ADJUSTMENTS**

the protector  
 e a monoscope pattern.  
 PICTURE, BRIGHT controls to  
 um.  
 t network (20kΩ, 10μF/50V)  
 Ω resistor as shown.  
 that the picture disappear.



**Brightness Correction Adjustment**

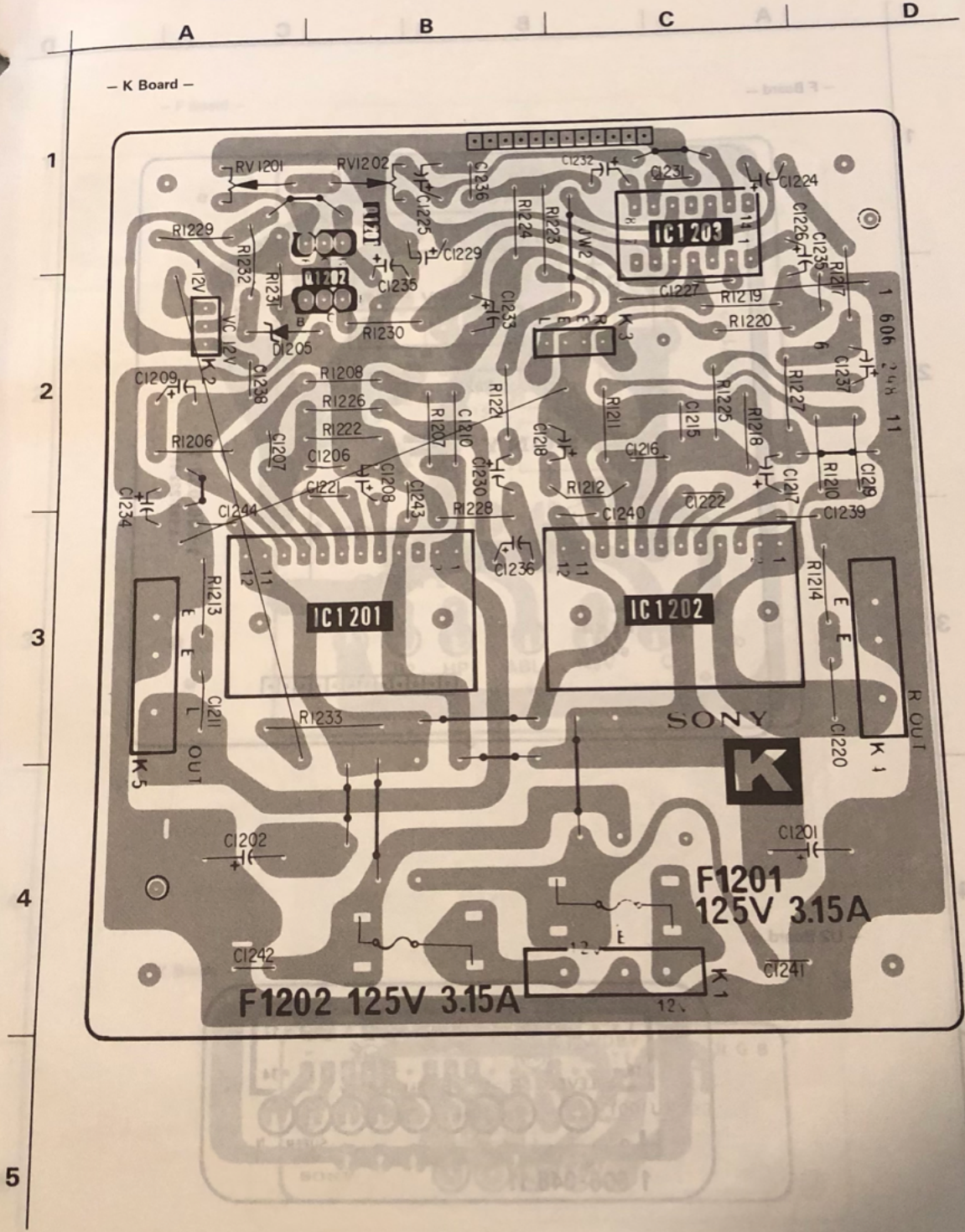
1. Tune in an RF signal.
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3. Adjust RV705 to cut off the darkest part of the picture.
4. Check each channel to make sure that the black level is not excessive.







- K Board -



**F** [LIVE RECT]

**U2** [INPUT TERMINAL]

- F Board -

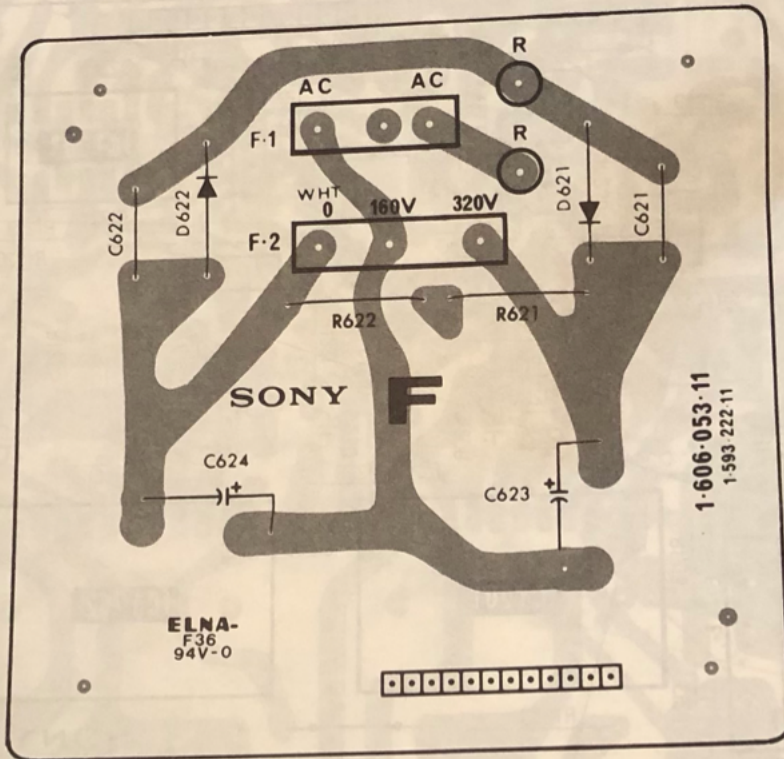
1

2

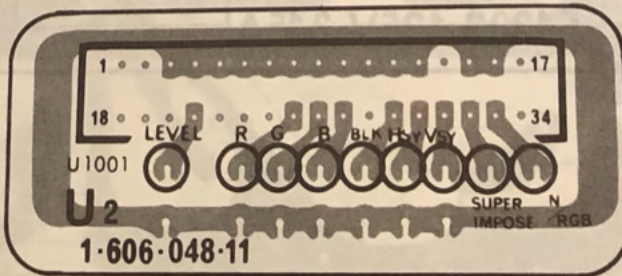
3

4

5



- U2 Board -

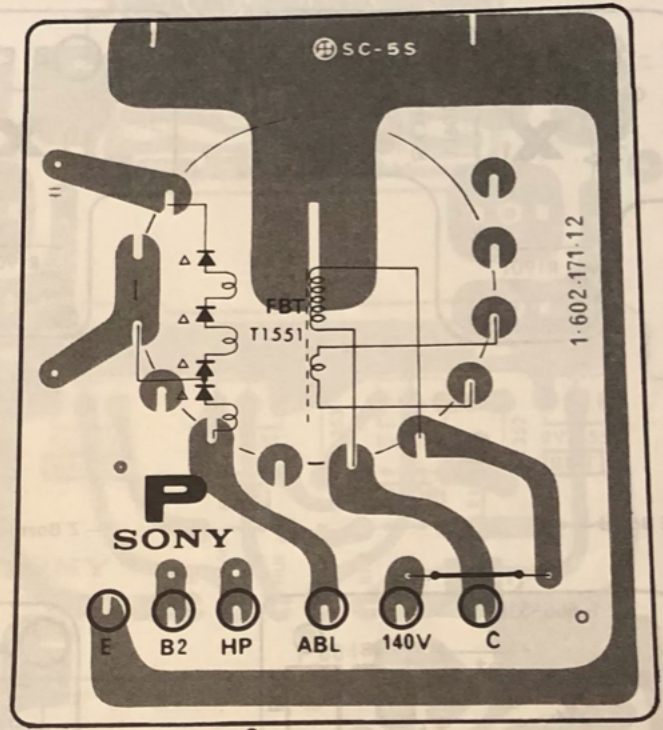




A B C A D

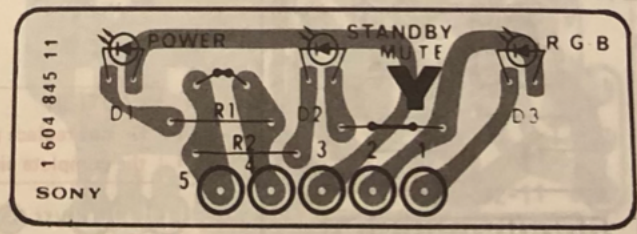
— P Board —

1  
2  
3



— Y Board —

4  
5



**X1**

[H OUT]

**X2**

[H CONV OUT]

**E**

[PROTECTOR]

**Z**

[HV REG OUT]

A

B

C

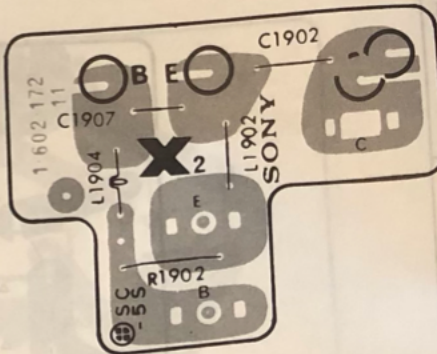
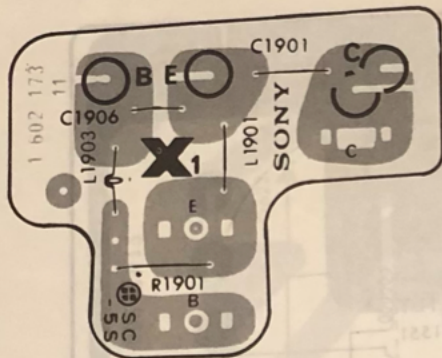
D

- X1 Board -

- X2 Board -

1

2

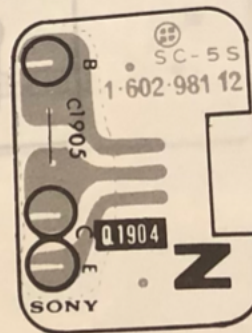
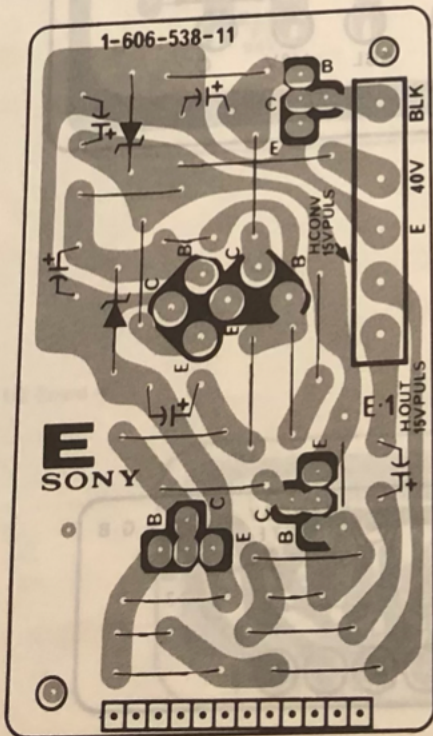


- E Board -

- Z Board -

3

4



5

**CAUTION**  
Do not replace parts on E board, replace the complete circuit board only.

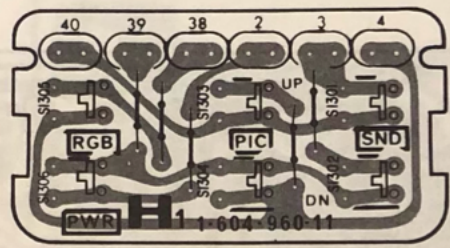


[CUSTOMER CONTROL] **H1** **H2** [INPUT TERMINAL] **U1**

A B C D

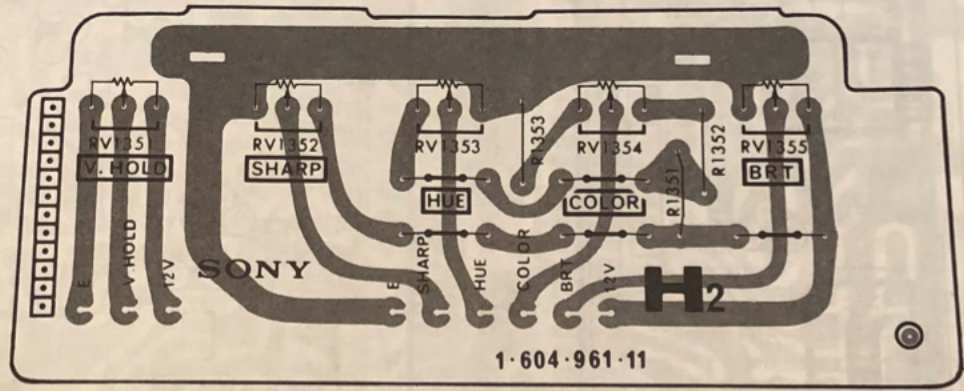
- H1 Board -

1



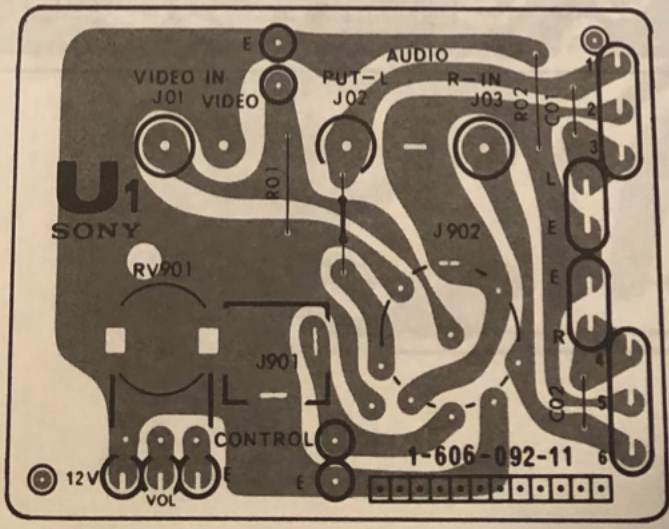
- H2 Board -

2



- U1 Board -

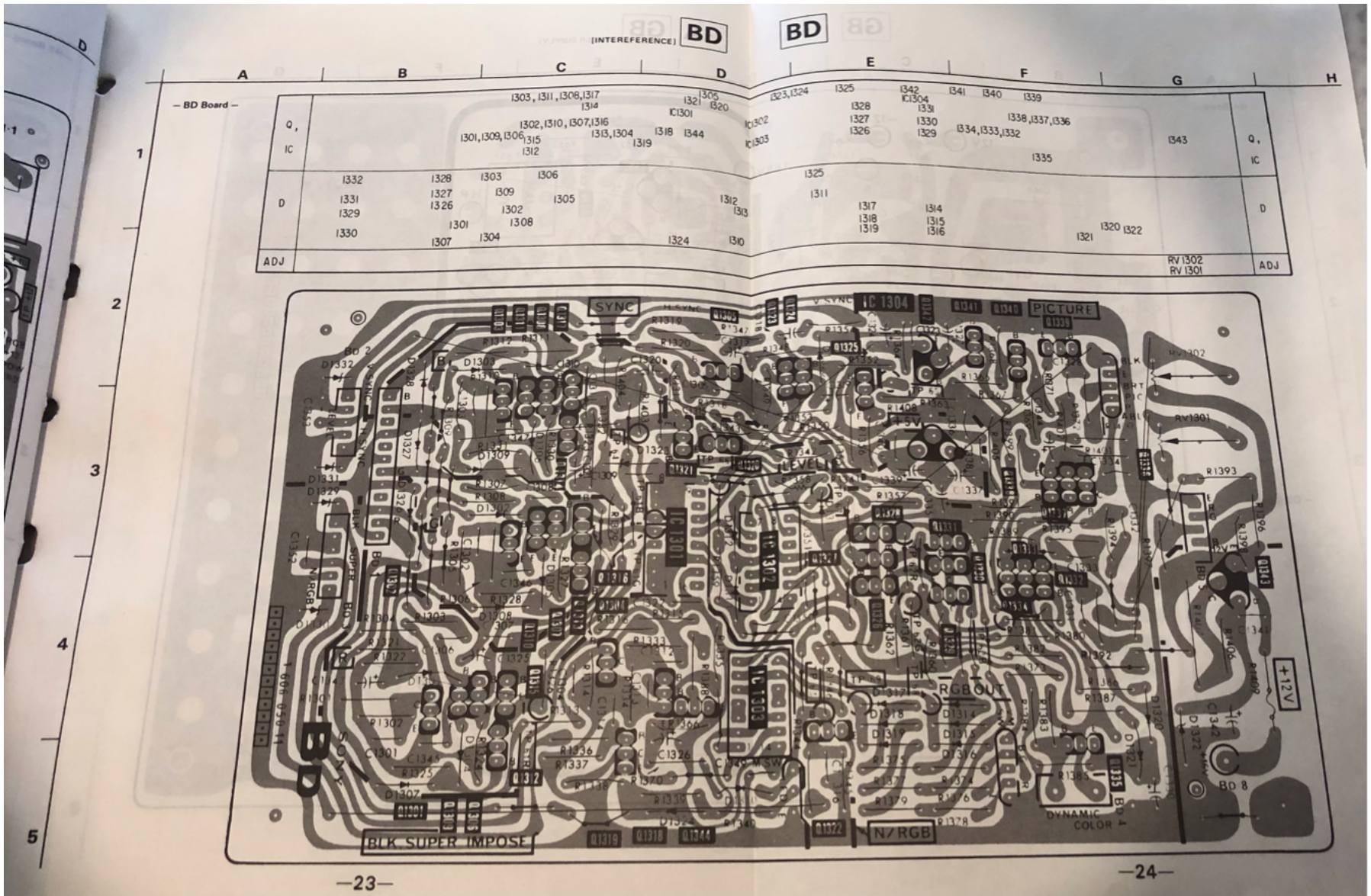
4



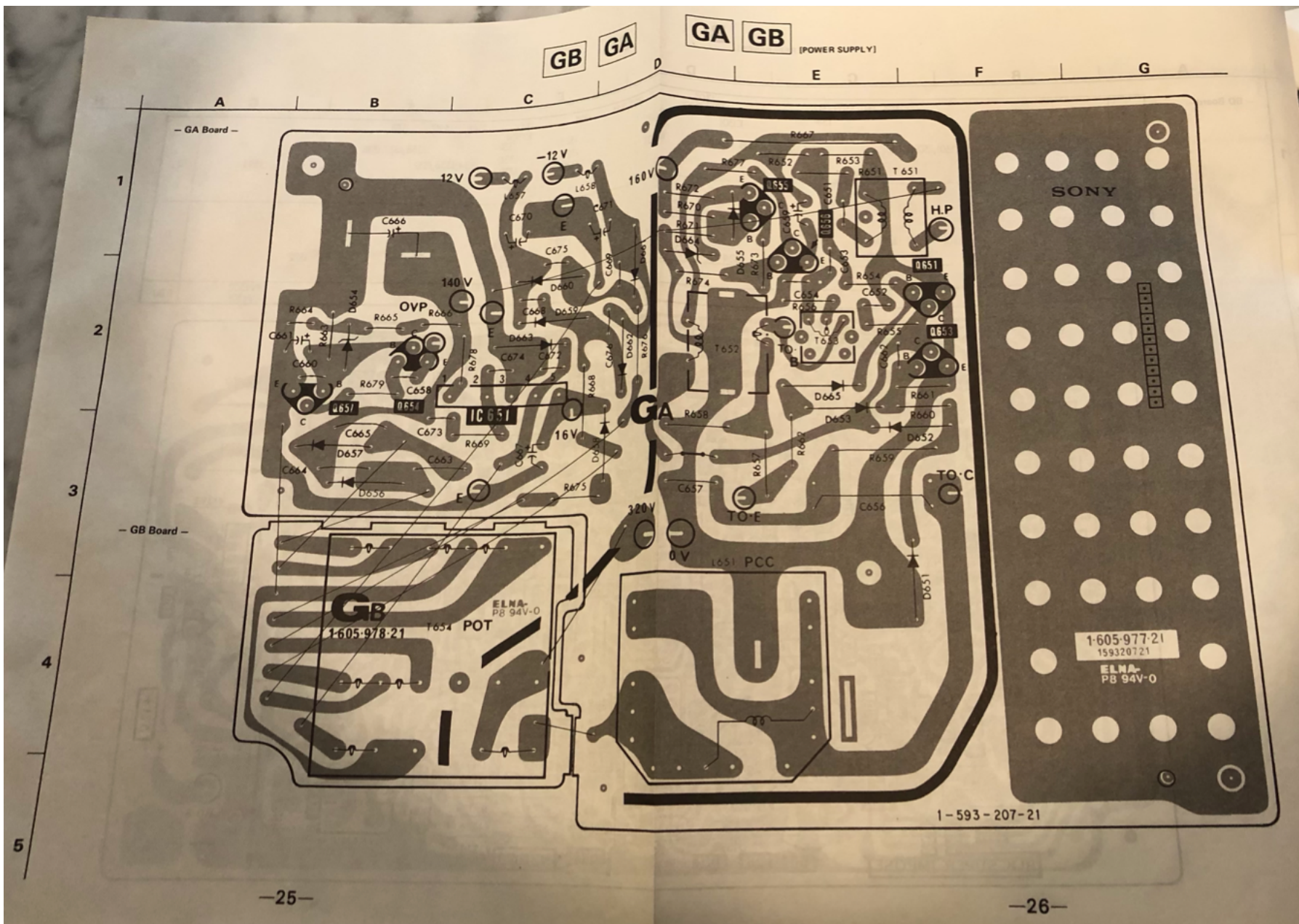
5













VIDEO DRIVE, CHROMA,  
DYNAMIC PICTURE,  
VM DRIVE, Y AMP

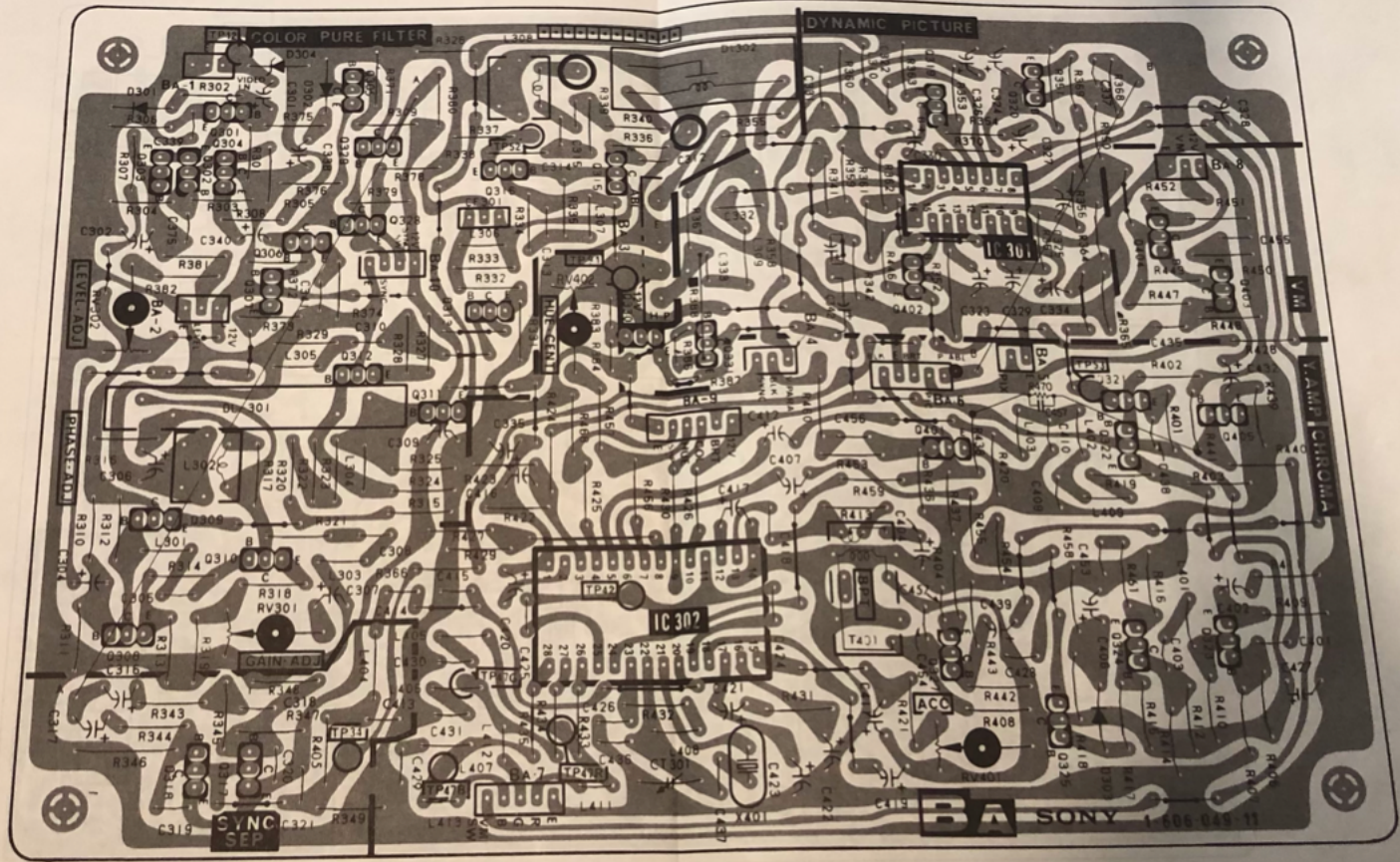
BA

BA

A B C D E F G H

- BA Board -

Q	303, 302	301	304	305	329	316	315	38	320	321	404	403	Q
IC	309	307	306	328	311	IC302		402 IC301	401	322	405	406	IC
D	301	318	317	302				327	325	324	323		D
ADJ		RV301				RV402				RV401			ADJ












- D Board -

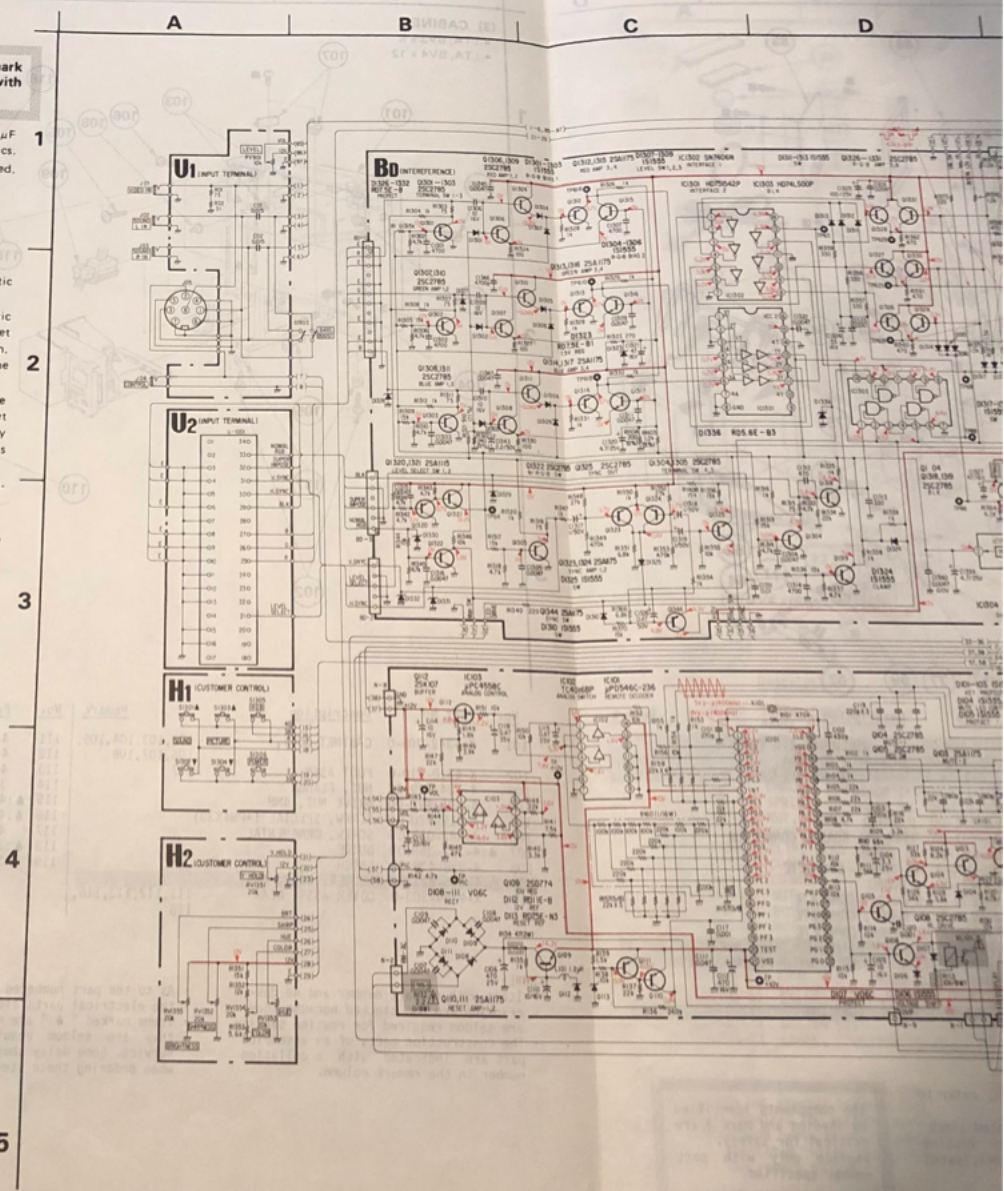
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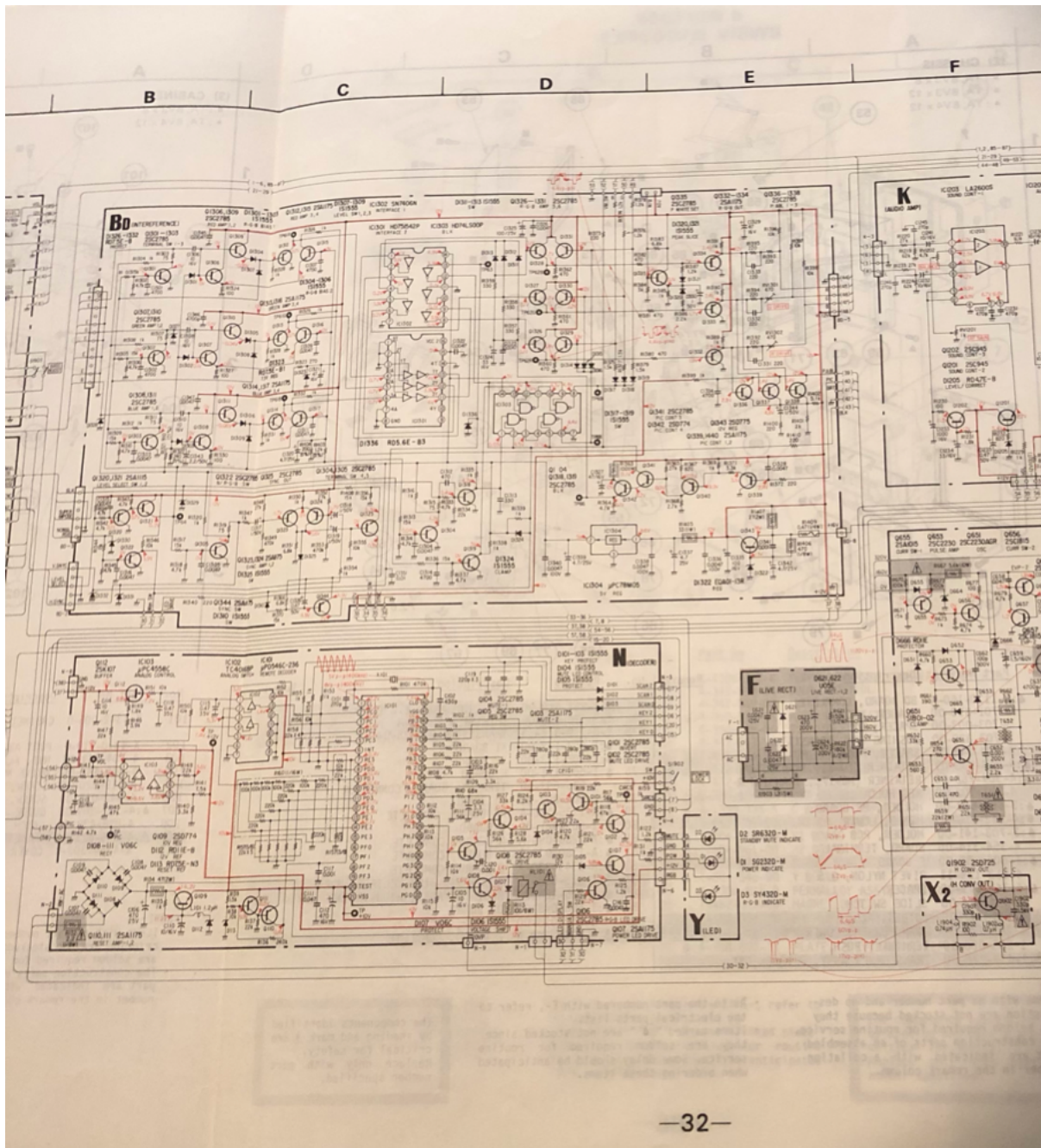


### 3.2. SCHEMATIC DIAGRAM

Note: The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

- All capacitors are in  $\mu\text{F}$  unless otherwise noted, pF:  $\mu\text{F}$  50 WV or less are not indicated except for electrolytics.
- All resistors are in ohms,  $\frac{1}{2}$  W unless otherwise noted, k: 1000  $\Omega$ , M: 1000 k $\Omega$ .
- : nonflammable resistor.
- : fusible resistor
- : internal component.
- : panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- The components identified by **A** in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by **A**, make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by **A** and repeat the adjustment until the specified value is achieved.
- Refer to the service manual for the adjustment of components identified by **A**.
- All voltages are in V.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 10 M ohm-per-volt DMT.
- : adjustment for repair.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- : B+ bus.
- : B- bus.
- Do not replace parts on E board, replace the complete circuit board only.

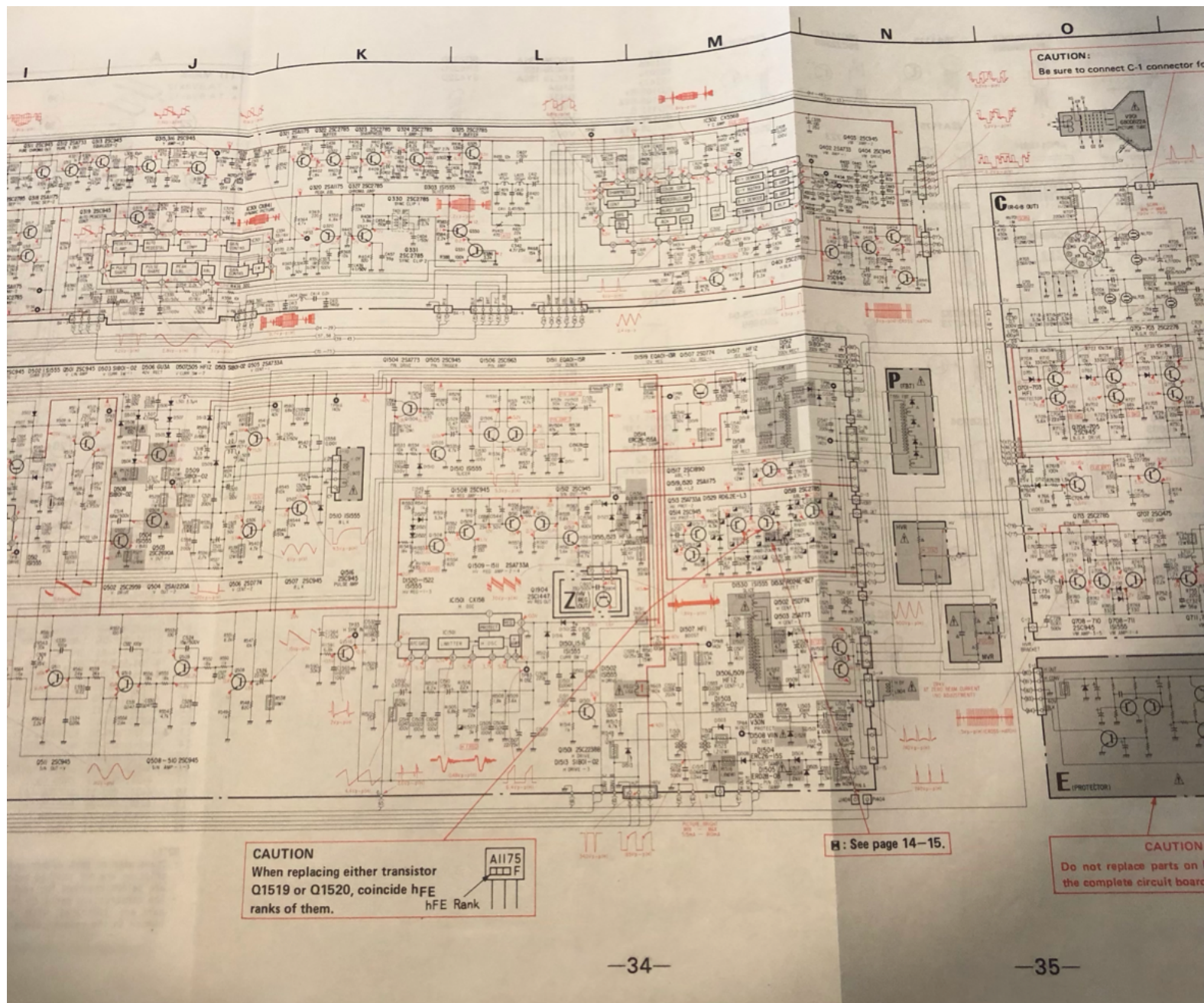




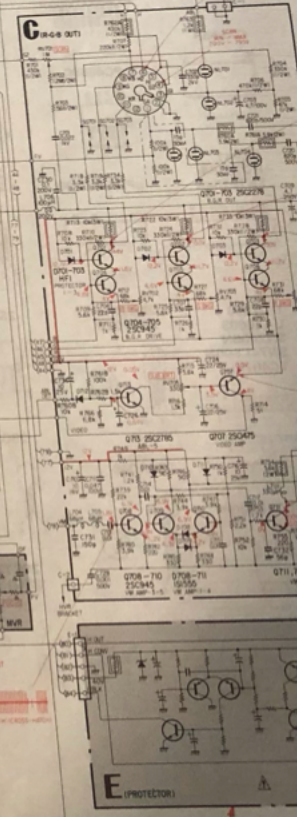








**CAUTION:**  
Be sure to connect C-1 connector to



**CAUTION**  
When replacing either transistor Q1519 or Q1520, coincide hFE ranks of them.

hFE Rank

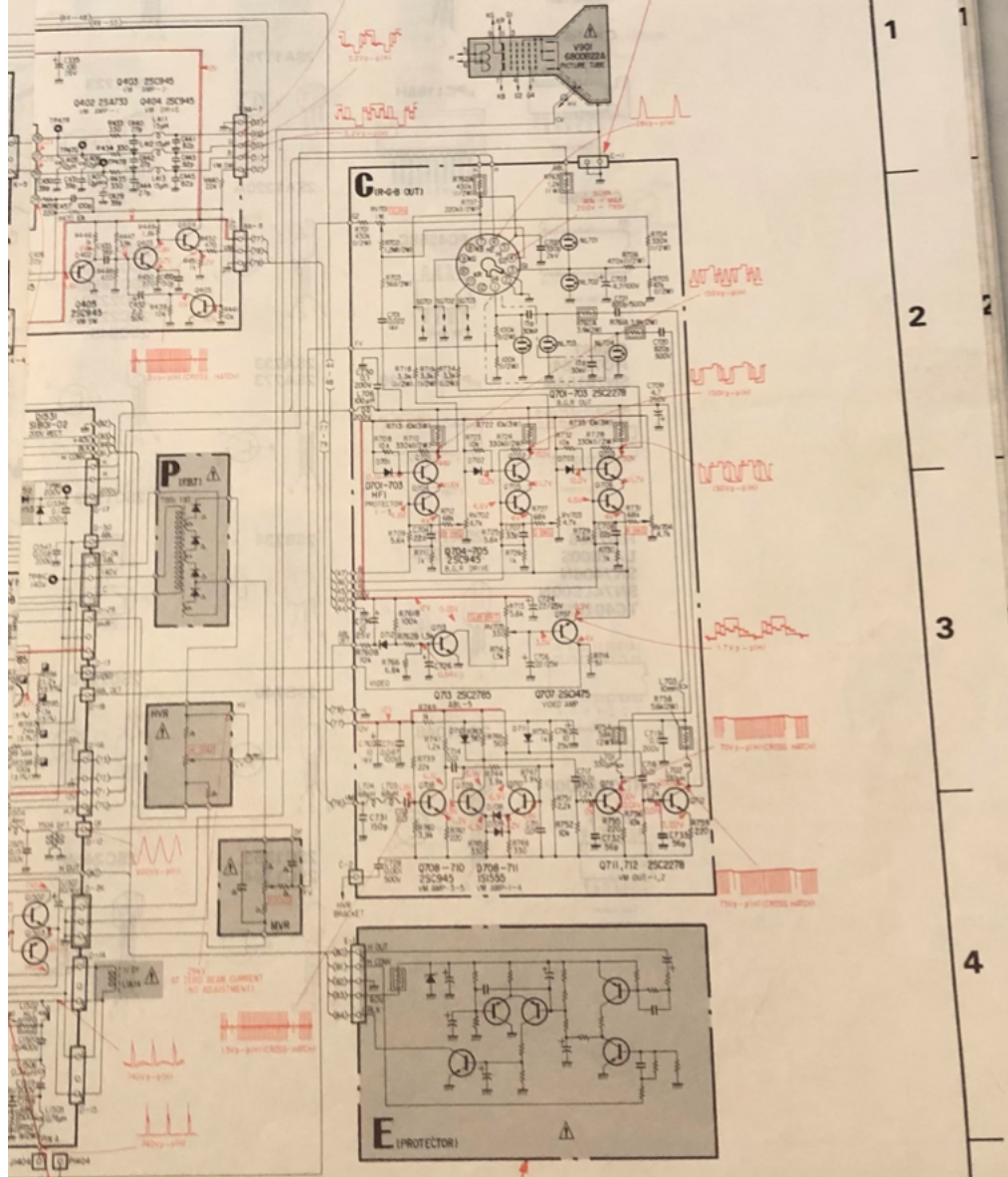
Ⓜ: See page 14-15.

**CAUTION**  
Do not replace parts on the complete circuit board



N O P

**CAUTION:**  
Be sure to connect C-1 connector for safety.



: See page 14-15.

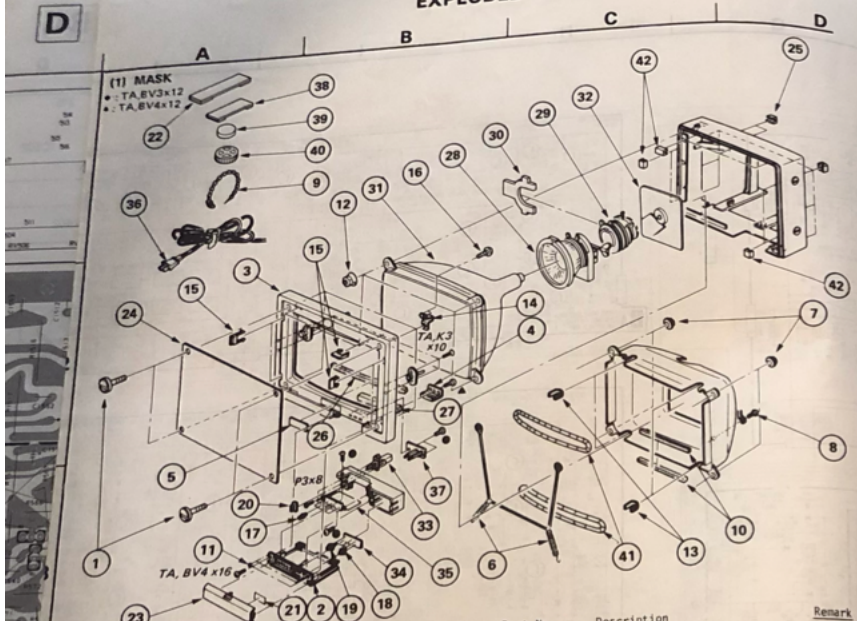
**CAUTION**  
Do not replace parts on E board, replace the complete circuit board only.

4.3. SEMICONDUCTORS

<p><b>CX157</b> 14 13 12 11 10 9 8 1 2 3 4 5 6 7 (Top view)</p>	<p><b>NJM78M05A</b> <b>μPC78M05H</b></p>	<p><b>2SA1115</b></p>	<p><b>2SC1447</b> <b>2SC2238B</b></p>	<p><b>2SC2690A</b></p>	<p><b>10E2</b> <b>1S1555</b> <b>1S2076</b> <b>1S2473</b> <b>RD10E-B1</b> <b>RD10E-B2Z</b> <b>RD11E-B</b> <b>RD12E-L2</b> <b>RD13E-B1Z7</b> <b>RD24E-BZ7</b> <b>RD4.7E-B</b> <b>RD4.7E-BZ</b> <b>RD6.2E-BZ27</b> <b>RD6.2E-L1</b> <b>RD7.5E-B</b> <b>RD7.5E-B1</b> <b>RD7.5E-N3</b></p>	<p><b>ERC26-13SA</b> <b>ERC26-15S</b> <b>ERC26-15SA</b> <b>GH3A</b> <b>GH3F</b> <b>U05E</b> <b>U05G</b> <b>V06C</b> <b>V09C</b> <b>V11N</b> <b>V19B</b> <b>V19E</b> <b>V30N</b></p>	<p><b>SG232D</b> <b>SR632D</b> <b>SY432D</b></p>
<p><b>CX158</b> 14 13 12 11 10 9 8 1 2 3 4 5 6 7 (Top view)</p>	<p><b>μPC1188H</b></p>	<p><b>2SA1175</b></p>	<p><b>2SC1723</b></p>	<p><b>2SC2785</b></p>	<p><b>2SC2958</b> <b>2SC2959</b> <b>2SD774</b></p>	<p><b>SG264A</b></p>	
<p><b>CX556B</b></p>	<p><b>μPC4558C</b></p>	<p><b>2SA1220A</b></p>	<p><b>2SC1815</b> <b>2SC1890</b> <b>2SC1890A</b> <b>2SC2230</b> <b>2SC2230A</b> <b>2SC945</b></p>	<p><b>2SC2958</b> <b>2SC2959</b> <b>2SD774</b></p>	<p><b>1SS119</b> <b>1SS120</b></p>	<p><b>ERD28-08S</b></p>	
<p><b>CX841</b> <b>HD75154</b> <b>SN75154N</b></p>	<p><b>μPD546C236</b></p>	<p><b>2SA733</b> <b>2SA773</b></p>	<p><b>2SC1963</b></p>	<p><b>2SD725-04</b> <b>2SD869</b></p>	<p><b>1SS119</b> <b>1SS120</b></p>	<p><b>HF1</b> <b>HF1A</b> <b>HF1Z</b></p>	
<p><b>HD7406</b> <b>LA2800S</b> <b>SN7406N</b> <b>SN74LS00N</b> <b>TC4016BP</b></p>	<p><b>2SA1015</b> <b>2SA1026</b></p>	<p><b>2SB734</b></p>	<p><b>2SC1963</b></p>	<p><b>2SD789</b></p>	<p><b>EQA01-13</b> <b>EQA01-13R</b> <b>EQA01-15</b> <b>EQA01-15R</b> <b>SIB01-02</b> <b>SIB01-02T5</b></p>	<p><b>RH1</b> <b>RH1A</b> <b>RH1Z</b> <b>RM1Z</b></p>	
<p><b>HD74LS00P</b></p>	<p><b>2SA1048</b></p>	<p><b>2SB740</b></p>	<p><b>2SC2278</b></p>	<p><b>2SK107-020</b> <b>2SK107-030</b> <b>2SK107-2</b> <b>2SK107-3</b></p>	<p><b>RH1</b> <b>RH1A</b> <b>RH1Z</b> <b>RM1Z</b></p>		
<p><b>HD74LS00P</b></p>	<p><b>2SA1048</b></p>	<p><b>2SB740</b></p>	<p><b>2SC2278</b></p>	<p><b>2SK107-020</b> <b>2SK107-030</b> <b>2SK107-2</b> <b>2SK107-3</b></p>	<p><b>RH1</b> <b>RH1A</b> <b>RH1Z</b> <b>RM1Z</b></p>		
<p><b>HD74LS00P</b></p>	<p><b>2SA1048</b></p>	<p><b>2SB740</b></p>	<p><b>2SC2278</b></p>	<p><b>2SK107-020</b> <b>2SK107-030</b> <b>2SK107-2</b> <b>2SK107-3</b></p>	<p><b>RH1</b> <b>RH1A</b> <b>RH1Z</b> <b>RM1Z</b></p>		
<p><b>HD74LS00P</b></p>	<p><b>2SA1048</b></p>	<p><b>2SB740</b></p>	<p><b>2SC2278</b></p>	<p><b>2SK107-020</b> <b>2SK107-030</b> <b>2SK107-2</b> <b>2SK107-3</b></p>	<p><b>RH1</b> <b>RH1A</b> <b>RH1Z</b> <b>RM1Z</b></p>		
<p><b>HD74LS00P</b></p>	<p><b>2SA1048</b></p>	<p><b>2SB740</b></p>	<p><b>2SC2278</b></p>	<p><b>2SK107-020</b> <b>2SK107-030</b> <b>2SK107-2</b> <b>2SK107-3</b></p>	<p><b>RH1</b> <b>RH1A</b> <b>RH1Z</b> <b>RM1Z</b></p>		
<p><b>HD74LS00P</b></p>	<p><b>2SA1048</b></p>	<p><b>2SB740</b></p>	<p><b>2SC2278</b></p>	<p><b>2SK107-020</b> <b>2SK107-030</b> <b>2SK107-2</b> <b>2SK107-3</b></p>	<p><b>RH1</b> <b>RH1A</b> <b>RH1Z</b> <b>RM1Z</b></p>		
<p><b>HD74LS00P</b></p>	<p><b>2SA1048</b></p>	<p><b>2SB740</b></p>	<p><b>2SC2278</b></p>	<p><b>2SK107-020</b> <b>2SK107-030</b> <b>2SK107-2</b> <b>2SK107-3</b></p>	<p><b>RH1</b> <b>RH1A</b> <b>RH1Z</b> <b>RM1Z</b></p>		
<p><b>HD74LS00P</b></p>	<p><b>2SA1048</b></p>	<p><b>2SB740</b></p>	<p><b>2SC2278</b></p>	<p><b>2SK107-020</b> <b>2SK107-030</b> <b>2SK107-2</b> <b>2SK107-3</b></p>	<p><b>RH1</b> <b>RH1A</b> <b>RH1Z</b> <b>RM1Z</b></p>		
<p><b>HD74LS00P</b></p>	<p><b>2SA1048</b></p>	<p><b>2SB740</b></p>	<p><b>2SC2278</b></p>	<p><b>2SK107-020</b> <b>2SK107-030</b> <b>2SK107-2</b> <b>2SK107-3</b></p>	<p><b>RH1</b> <b>RH1A</b> <b>RH1Z</b> <b>RM1Z</b></p>		
<p><b>HD74LS00P</b></p>	<p><b>2SA1048</b></p>	<p><b>2SB740</b></p>	<p><b>2SC2278</b></p>	<p><b>2SK107-020</b> <b>2SK107-030</b> <b>2SK107-2</b> <b>2SK107-3</b></p>	<p><b>RH1</b> <b>RH1A</b> <b>RH1Z</b> <b>RM1Z</b></p>		
<p><b>HD74LS00P</b></p>	<p><b>2SA1048</b></p>	<p><b>2SB740</b></p>	<p><b>2SC2278</b></p>	<p><b>2SK107-020</b> <b>2SK107-030</b> <b>2SK107-2</b> <b>2SK107-3</b></p>	<p><b>RH1</b> <b>RH1A</b> <b>RH1Z</b> <b>RM1Z</b></p>		
<p><b>HD74LS00P</b></p>	<p><b>2SA1048</b></p>	<p><b>2SB740</b></p>	<p><b>2SC2278</b></p>	<p><b>2SK107-020</b> <b>2SK107-030</b> <b>2SK107-2</b> <b>2SK107-3</b></p>	<p><b>RH1</b> <b>RH1A</b> <b>RH1Z</b> <b>RM1Z</b></p>		
<p><b>HD74LS00P</b></p>	<p><b>2SA1048</b></p>	<p><b>2SB740</b></p>	<p><b>2SC2278</b></p>	<p><b>2SK107-020</b> <b>2SK107-030</b> <b>2SK107-2</b> <b>2SK107-3</b></p>	<p><b>RH1</b> <b>RH1A</b> <b>RH1Z</b> <b>RM1Z</b></p>		
<p><b>HD74LS00P</b></p>	<p><b>2SA1048</b></p>	<p><b>2SB740</b></p>	<p><b>2SC2278</b></p>	<p><b>2SK107-020</b> <b>2SK107-030</b> <b>2SK107-2</b> <b>2SK107-3</b></p>	<p><b>RH1</b> <b>RH1A</b> <b>RH1Z</b> <b>RM1Z</b></p>		
<p><b>HD74LS00P</b></p>	<p><b>2SA1048</b></p>	<p><b>2SB740</b></p>	<p><b>2SC2278</b></p>	<p><b>2SK107-020</b> <b>2SK107-030</b> <b>2SK107-2</b> <b>2SK107-3</b></p>	<p><b>RH1</b> <b>RH1A</b> <b>RH1Z</b> <b>RM1Z</b></p>		
<p><b>HD74LS00P</b></p>	<p><b>2SA1048</b></p>	<p><b>2SB740</b></p>	<p><b>2SC2278</b></p>	<p><b>2SK107-020</b> <b>2SK107-030</b> <b>2SK107-2</b> <b>2SK107-3</b></p>	<p><b>RH1</b> <b>RH1A</b> <b>RH1Z</b> <b>RM1Z</b></p>		
<p><b>HD74LS00P</b></p>	<p><b>2SA1048</b></p>	<p><b>2SB740</b></p>	<p><b>2SC2278</b></p>	<p><b>2SK107-020</b> <b>2SK107-030</b> <b>2SK107-2</b> <b>2SK107-3</b></p>	<p><b>RH1</b> <b>RH1A</b> <b>RH1Z</b> <b>RM1Z</b></p>		
<p><b>HD74LS00P</b></p>	<p><b>2SA1048</b></p>	<p><b>2SB740</b></p>	<p><b>2SC2278</b></p>	<p><b>2SK107-020</b> <b>2SK107-030</b> <b>2SK107-2</b> <b>2SK107-3</b></p>	<p><b>RH1</b> <b>RH1A</b> <b>RH1Z</b> <b>RM1Z</b></p>		
<p><b>HD74LS00P</b></p>	<p><b>2SA1048</b></p>	<p><b>2SB740</b></p>	<p><b>2SC2278</b></p>	<p><b>2SK107-020</b> <b>2SK107-030</b> <b>2SK107-2</b> <b>2SK107-3</b></p>	<p><b>RH1</b> <b>RH1A</b> <b>RH1Z</b> <b>RM1Z</b></p>		
<p><b>HD74LS00P</b></p>	<p><b>2SA1048</b></p>	<p><b>2SB740</b></p>	<p><b>2SC2278</b></p>	<p><b>2SK107-020</b> <b>2SK107-030</b> <b>2SK107-2</b> <b>2SK107-3</b></p>	<p><b>RH1</b> <b>RH1A</b> <b>RH1Z</b> <b>RM1Z</b></p>		
<p><b>HD74LS00P</b></p>	<p><b>2SA1048</b></p>	<p><b>2SB740</b></p>	<p><b>2SC2278</b></p>	<p><b>2SK107-020</b> <b>2SK107-030</b> <b>2SK107-2</b> <b>2SK107-3</b></p>	<p><b>RH1</b> <b>RH1A</b> <b>RH1Z</b> <b>RM1Z</b></p>		
<p><b>HD74LS00P</b></p>	<p><b>2SA1048</b></p>	<p><b>2SB740</b></p>	<p><b>2SC2278</b></p>	<p><b>2SK107-020</b> <b>2SK107-030</b> <b>2SK107-2</b> <b>2SK107-3</b></p>	<p><b>RH1</b> <b>RH1A</b> <b>RH1Z</b> <b>RM1Z</b></p>		
<p><b>HD74LS00P</b></p>	<p><b>2SA1048</b></p>	<p><b>2SB740</b></p>	<p><b>2SC2278</b></p>	<p><b>2SK107-020</b> <b>2SK107-030</b> <b>2SK107-2</b> <b>2SK107-3</b></p>	<p><b>RH1</b> <b>RH1A</b> <b>RH1Z</b> <b>RM1Z</b></p>		
<p><b>HD74LS00P</b></p>	<p><b>2SA1048</b></p>	<p><b>2SB740</b></p>	<p><b>2SC2278</b></p>	<p><b>2SK107-020</b> <b>2SK107-030</b> <b>2SK107-2</b> <b>2SK107-3</b></p>	<p><b>RH1</b> <b>RH1A</b> <b>RH1Z</b> <b>RM1Z</b></p>		
<p><b>HD74LS00P</b></p>	<p><b>2SA1048</b></p>	<p><b>2SB740</b></p>	<p><b>2SC2278</b></p>	<p><b>2SK107-020</b> <b>2SK107-030</b> <b>2SK107-2</b> <b>2SK107-3</b></p>	<p><b>RH1</b> <b>RH1A</b> <b>RH1Z</b> <b>RM1Z</b></p>		
<p><b>HD74LS00P</b></p>	<p><b>2SA1048</b></p>	<p><b>2SB740</b></p>	<p><b>2SC2278</b></p>	<p><b>2SK107-020</b> <b>2SK107-030</b> <b>2SK107-2</b> <b>2SK107-3</b></p>	<p><b>RH1</b> <b>RH1A</b> <b>RH1Z</b> <b>RM1Z</b></p>		
<p><b>HD74LS00P</b></p>	<p><b>2SA1048</b></p>	<p><b>2SB740</b></p>	<p><b>2SC2278</b></p>	<p><b>2SK107-020</b> <b>2SK107-030</b> <b>2SK107-2</b> <b>2SK107-3</b></p>	<p><b>RH1</b> <b>RH1A</b> <b>RH1Z</b> <b>RM1Z</b></p>		
<p><b>HD74LS00P</b></p>	<p><b>2SA1048</b></p>	<p><b>2SB740</b></p>	<p><b>2SC2278</b></p>	<p><b>2SK107-020</b> <b>2SK107-030</b> <b>2SK107-2</b> <b>2SK107-3</b></p>	<p><b>RH1</b> <b>RH1A</b> <b>RH1Z</b> <b>RM1Z</b></p>		
<p><b>HD74LS00P</b></p>	<p><b>2SA1048</b></p>	<p><b>2SB740</b></p>	<p><b>2SC2278</b></p>	<p><b>2SK107-020</b> <b>2SK107-030</b> <b>2SK107-2</b> <b>2SK107-3</b></p>	<p><b>RH1</b> <b>RH1A</b> <b>RH1Z</b> <b>RM1Z</b></p>		
<p><b>HD74LS00P</b></p>	<p><b>2SA1048</b></p>	<p><b>2SB740</b></p>	<p><b>2SC2278</b></p>	<p><b>2SK107-020</b> <b>2SK107-030</b> <b>2SK107-2</b> <b>2SK107-3</b></p>	<p><b>RH1</b> <b>RH1A</b> <b>RH1Z</b> <b>RM1Z</b></p>		
<p><b>HD74LS00P</b></p>	<p><b>2SA1048</b></p>	<p><b>2SB740</b></p>	<p><b>2SC2278</b></p>	<p><b>2SK107-020</b> <b>2SK107-030</b> <b>2SK107-2</b> <b>2SK107-3</b></p>	<p><b>RH1</b> <b>RH1A</b> <b>RH1Z</b> <b>RM1Z</b></p>		
<p><b>HD74LS00P</b></p>	<p><b>2SA1048</b></p>	<p><b>2SB740</b></p>	<p><b>2SC2278</b></p>	<p><b>2SK107-020</b> <b>2SK107-030</b> <b>2SK107-2</b> <b>2SK107-3</b></p>	<p><b>RH1</b> <b>RH1A</b> <b>RH1Z</b> <b>RM1Z</b></p>		
<p><b>HD74LS00P</b></p>	<p><b>2SA1048</b></p>	<p><b>2SB740</b></p>	<p><b>2SC2278</b></p>	<p><b>2SK107-020</b> <b>2SK107-030</b> <b>2SK107-2</b> <b>2SK107-3</b></p>	<p><b>RH1</b> <b>RH1A</b> <b>RH1Z</b> <b>RM1Z</b></p>		
<p><b>HD74LS00P</b></p>	<p><b>2SA1048</b></p>	<p><b>2SB740</b></p>	<p><b>2SC2278</b></p>	<p><b>2SK107-020</b> <b>2SK107-030</b> <b>2SK107-2</b> <b>2SK107-3</b></p>	<p><b>RH1</b> <b>RH1A</b> <b>RH1</b></p>		



## SECTION 5 EXPLODED VIEWS

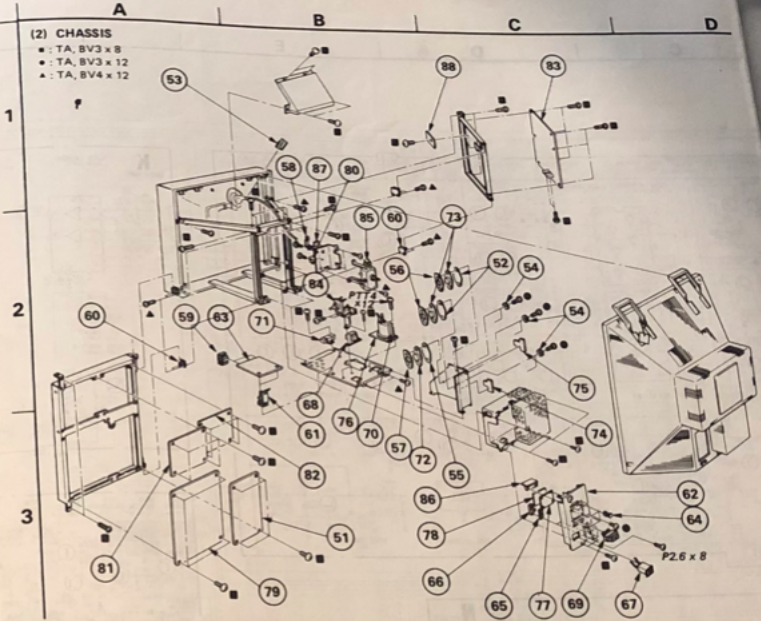


No.	Part No	Description	Remark	No.	Part No	Description	Remark
1	X-433-680-50	SCREW, ORNAMENTAL		22	X-4306-312-0	PERMALLOY ASSY, CONVERGENCE	
2	X-4354-301-0	PANEL ASSY, CONTROL	4, 5, 14, 15,	23	4-342-018-00	DOOR, CONTROL	
3	X-4342-004-5	BEZEL ASSY	16, 26, 27	24	4-342-019-00	FILTER	
4	X-4342-008-0	RETAINER ASSY, FILTER		25	4-860-518-11	PACKING, TWEETER	
5	3-701-912-00	EMBLEM, SONY, (LARGE)		26	4-350-249-00	CUSHION, CRT	
6	4-303-774-XX	SPRING		27	4-342-053-00	CUSHION (B)	
7	4-304-511-00	NUT, FLANGE		28	1-451-156-00	DEFLECTION YOKE; DY	
8	4-305-021-00	SCREW, TAPPING, TERMINAL, +BV3X8		29	1-452-236-00	CRT NECK ASSY	
9	4-308-870-00	CLIP, LEAD WIRE		30	1-452-146-00	MAGNET, BMC	
10	4-310-778-00	CUSHION (A), CRT		31	1-553-406-05	CRT 6000B22A	
11	4-316-264-11	CUSHION		32	A-1330-335-A	C BOARD, COMPLETE	
12	4-330-305-00	NUT, SPECIAL		33	1-553-262-00	SWITCH, PUSH (POWER SWITCH)	
13	4-330-306-00	BUSHING, CRT INSULATING		34	1-604-960-00	H1 BOARD	
14	4-341-905-00	NUT, PLATE (A)		35	1-604-961-00	H2 BOARD	
15	4-336-815-00	STOPPER, FILTER		36	1-551-478-11	CORD, POWER	
16	3-703-136-00	SCREW, TAPPING		37	1-604-845-00	Y BOARD	
17	4-341-908-21	KNOB (B)		38	X-4308-815-0	PERMALLOY ASSY, CONVERGENCE	
18	4-341-909-11	BUTTON (A)		39	1-452-032-00	MAGNET, DISC	
19	4-341-910-21	BUTTON (B)		40	1-452-094-00	MAGNET, ROTATABLE DISK; 15mm Ø	
20	4-341-911-21	BUTTON (C)		41	1-426-059-21	COIL, DEGAUSSING, DGC	
21	3-703-079-21	LABEL, COURTION (BACK)		42	4-858-803-11	PLATE, PREVENTION, REFLECTION	

NOTE:  
 • Items with no part number and no description are not stocked because they are seldom required for routine service.  
 • The construction parts of an assembled part are indicated with a collation number in the remark column.

• As to the part numbered with E-, refer to the electrical parts list.  
 • Items marked \* are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.



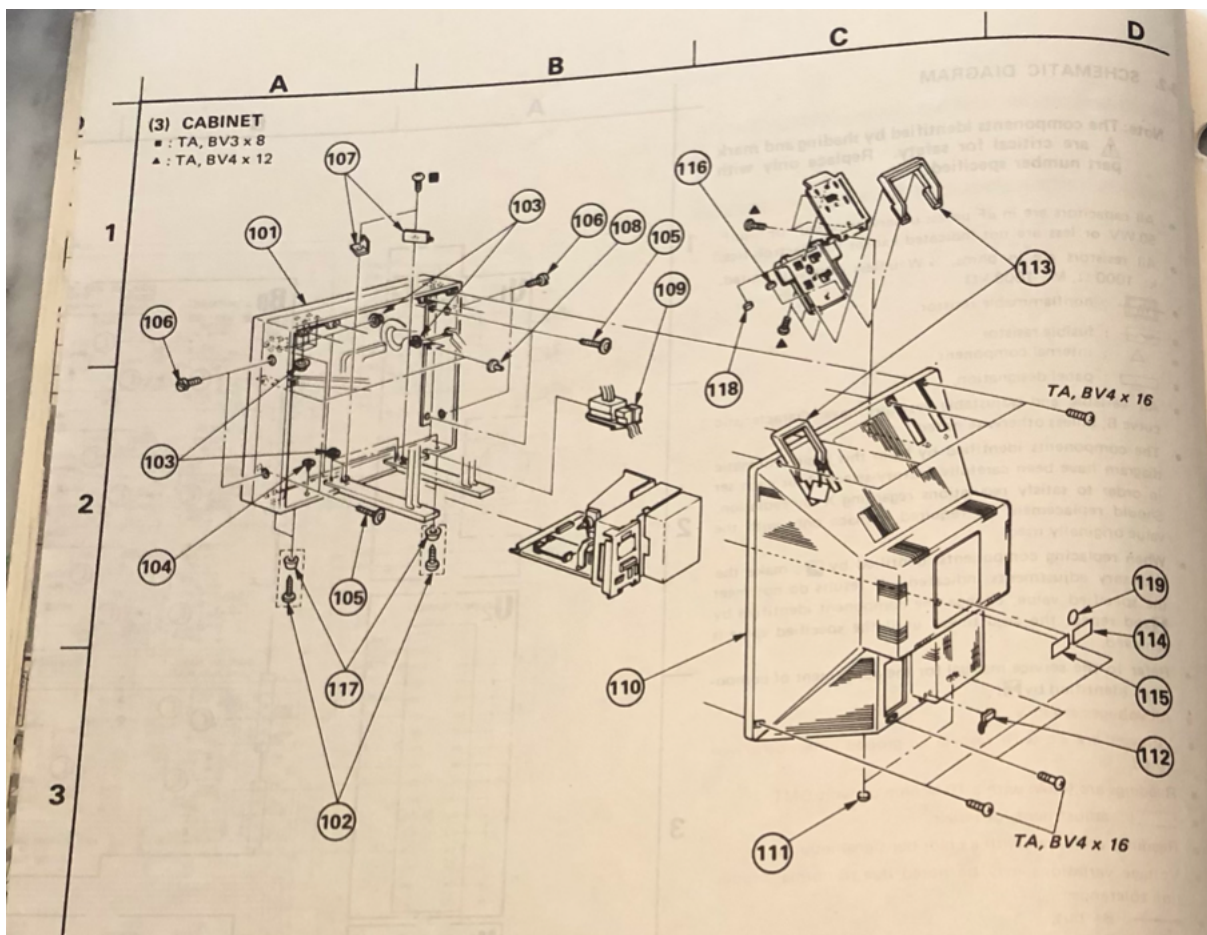
No.	Part No	Description	Remark	No.	Part No	Description	Remark
51	Δ A-1130-160-A	BO BOARD, COMPLETE		71	Δ 1-217-618-00	RES. WIREWOUND 1.2 (15)	
52	3-701-353-00	SPACER, MICA		72	Δ 8-726-420-00	THRISTOR 5G-264K	
53	3-703-003-00	SPACER, DY		73	Δ 8-728-372-53	TRANSISTOR 2SD725-04	
54	3-703-320-00	BUSHING (A), TRANSISTOR		74	Δ 1-602-172-00	X1 BOARD	
55	4-303-844-00	SPACER, MICA (4) MD-17		75	Δ 1-602-173-00	X2 BOARD	
56	4-314-938-01	RETAINER (TO-3), TRANSISTOR		76	Δ 1-602-171-00	P BOARD	
57	4-309-762-00	RETAINER (MD-17), TRANSISTOR		77	1-536-693-00	TERMINAL BOARD, CONNECTOR	
58	4-327-002-00	REG HOLD		78	Δ 1-606-092-00	U1 BOARD	
59	3-659-682-00	HOLDER, PC BOARD		79	Δ A-1135-136-A	BA BOARD, COMPLETE	
60	4-342-010-00	HINGE, LOWER		80	Δ 1-601-981-00	Z BOARD	
61	3-703-141-00	HOLDER, PCB		81	Δ A-1280-099-A	N BOARD, COMPLETE	
62	4-354-314-00	BOARD, TERMINAL		82	Δ A-1380-072-A	K BOARD, COMPLETE	
63	4-606-053-00	F BOARD		83	Δ A-1345-330-A	D BOARD, COMPLETE	
64	4-812-134-11	RIVET NYLON, 3.5		84	Δ 1-215-066-21	RES ASSY, HIGH-VOLTAGE, MYR	
65	4-342-079-00	SLICE		85	Δ 1-228-484-00	RESISTOR ASSY, HIGH-VOLTAGE, MYR	
66	1-514-524-00	SLIDE SWITCH		86	Δ 1-606-048-00	U2 BOARD	
67	Δ 1-581-347-00	OUTLET, AC		87	4-342-013-00	SPACER, MICA	
68	Δ 1-447-120-00	TRANSFORMER, POWER; PT		88	Δ A-1345-363-A	E BOARD, COMPLETE	
69	1-536-600-00	TERMINAL, PUSH					
70	Δ 1-439-276-00	TRANSFORMER ASSY, FLYBACK; FBT					

NOTE:  
 • Items with no part number and no description are not stocked because they are seldom required for routine service.  
 • The construction parts of an assembled part are indicated with a collation number in the remark column.

• As to the part numbered with E-, refer to the electrical parts list.  
 • Items marked \* are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.





No.	Part No	Description	Remark	No.	Part No	Description	Remark
101	X-4342-005-0	CABINET ASSY,	102,103,104,105, 106,107,108	111	4-310-721-00	CUSHION, CABINET	
102	X-4310-310-0	FOOT ASSY	117	112	4-329-127-00	CLAMP, CORD	
103	4-304-749-00	NUT, FLANGE		113	4-342-020-00	HANDLE	
104	4-305-442-00	DRIVE NUT, 4MM		114	3-703-228-00	LABEL, CAUTION	
105	4-319-520-00	SCREW, SPECIAL (+PW4X30)		115	▲:4-354-304-00	LABEL, MODEL NUMBER	
106	4-342-017-00	SCREW, ORNAMENTAL		116	▲:4-314-871-00	CUSHION	
107	▲:4-342-069-00	GUIDE		117	4-310-332-00	FOOT	
108	4-838-438-00	LATCH		118	▲:3-536-682-01	FELT, BACK TENSION	
109	▲:4-355-621-00	HOLDER, CORD, AC		119	3-701-915-01	LABEL, UL	
110	X-4354-303-0	COVER ASSY, REAR	111,112,113,116, 118				

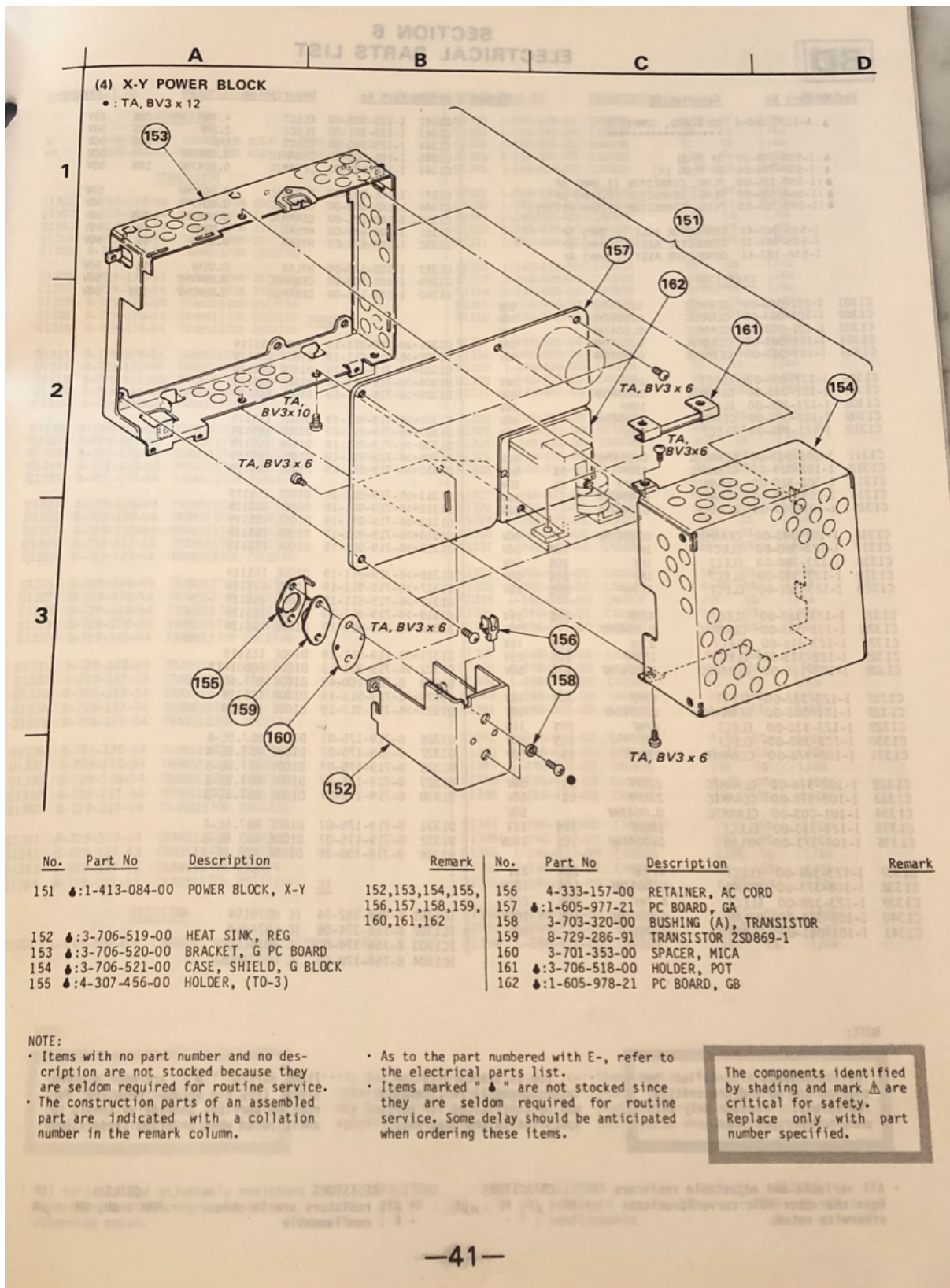
**NOTE:**

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- As to the part numbered with E-, refer to the electrical parts list.
- Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.





No.	Part No	Description	Remark	No.	Part No	Description	Remark
151	▲:1-413-084-00	POWER BLOCK, X-Y	152,153,154,155, 156,157,158,159, 160,161,162	156	4-333-157-00	RETAINER, AC CORD	
152	▲:3-706-519-00	HEAT SINK, REG		157	▲:1-605-977-21	PC BOARD, GA	
153	▲:3-706-520-00	BRACKET, G PC BOARD		158	3-703-320-00	BUSHING (A), TRANSISTOR	
154	▲:3-706-521-00	CASE, SHIELD, G BLOCK		159	8-729-286-91	TRANSISTOR 2SD869-1	
155	▲:4-307-456-00	HOLDER, (TO-3)		160	3-701-353-00	SPACER, MICA	
				161	▲:3-706-518-00	HOLDER, POT	
				162	▲:1-605-978-21	PC BOARD, GB	

**NOTE:**

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- As to the part numbered with E-, refer to the electrical parts list.
- Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.







Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
<b>CONNECTOR</b>							
N7	1-556-016-81	CONNECTOR ASSY (2.5MM) 3P		R1302	1-246-489-00	CARBON 4.7K 5% 1/4W	
N8	1-555-958-41	CONNECTOR ASSY (2.5MM) 2P		R1303	1-246-446-00	CARBON 75 5% 1/4W	
<b>TRANSISTOR</b>							
Q1301	8-729-178-54	TRANSISTOR 2SC2785		R1304	1-246-473-00	CARBON 1K 5% 1/4W	
Q1302	8-729-178-54	TRANSISTOR 2SC2785		R1305	1-246-501-00	CARBON 15K 5% 1/4W	
Q1303	8-729-178-54	TRANSISTOR 2SC2785		R1306	1-246-489-00	CARBON 4.7K 5% 1/4W	
Q1304	8-729-178-54	TRANSISTOR 2SC2785		R1307	1-246-446-00	CARBON 75 5% 1/4W	
Q1305	8-729-178-54	TRANSISTOR 2SC2785		R1308	1-246-473-00	CARBON 1K 5% 1/4W	
Q1306	8-729-178-54	TRANSISTOR 2SC2785		R1309	1-246-501-00	CARBON 15K 5% 1/4W	
Q1307	8-729-178-54	TRANSISTOR 2SC2785		R1310	1-246-489-00	CARBON 4.7K 5% 1/4W	
Q1308	8-729-178-54	TRANSISTOR 2SC2785		R1311	1-246-446-00	CARBON 75 5% 1/4W	
Q1309	8-729-178-54	TRANSISTOR 2SC2785		R1312	1-246-473-00	CARBON 1K 5% 1/4W	
Q1310	8-729-178-54	TRANSISTOR 2SC2785		R1313	1-246-501-00	CARBON 15K 5% 1/4W	
Q1311	8-729-178-54	TRANSISTOR 2SC2785		R1314	1-246-489-00	CARBON 4.7K 5% 1/4W	
Q1312	8-729-117-54	TRANSISTOR 2SA1175		R1315	1-246-446-00	CARBON 75 5% 1/4W	
Q1313	8-729-117-54	TRANSISTOR 2SA1175		R1316	1-246-473-00	CARBON 1K 5% 1/4W	
Q1314	8-729-117-54	TRANSISTOR 2SA1175		R1317	1-246-501-00	CARBON 15K 5% 1/4W	
Q1315	8-725-800-00	TRANSISTOR 2SC1128		R1318	1-246-489-00	CARBON 4.7K 5% 1/4W	
Q1316	8-725-800-00	TRANSISTOR 2SC1128		R1319	1-246-446-00	CARBON 75 5% 1/4W	
Q1317	8-725-800-00	TRANSISTOR 2SC1128		R1320	1-246-473-00	CARBON 1K 5% 1/4W	
Q1318	8-729-178-54	TRANSISTOR 2SC2785		R1321	1-246-497-00	CARBON 10K 5% 1/4W	
Q1319	8-729-178-54	TRANSISTOR 2SC2785		R1322	1-246-481-00	CARBON 2.2K 5% 1/4W	
Q1320	8-729-117-54	TRANSISTOR 2SA1175		R1323	1-213-127-00	METAL 47 5% 1W F	
Q1321	8-729-178-54	TRANSISTOR 2SC2785		R1324	1-246-449-00	CARBON 100 5% 1/4W	
Q1322	8-729-178-54	TRANSISTOR 2SC2785		R1325	1-246-473-00	CARBON 1K 5% 1/4W	
Q1323	8-729-117-54	TRANSISTOR 2SA1175		R1326	1-246-473-00	CARBON 1K 5% 1/4W	
Q1324	8-729-117-54	TRANSISTOR 2SA1175		R1327	1-246-449-00	CARBON 100 5% 1/4W	
Q1325	8-729-178-54	TRANSISTOR 2SC2785		R1328	1-246-473-00	CARBON 1K 5% 1/4W	
Q1326	8-729-178-54	TRANSISTOR 2SC2785		R1329	1-246-473-00	CARBON 1K 5% 1/4W	
Q1327	8-729-178-54	TRANSISTOR 2SC2785		R1330	1-246-449-00	CARBON 100 5% 1/4W	
Q1328	8-729-178-54	TRANSISTOR 2SC2785		R1331	1-246-473-00	CARBON 1K 5% 1/4W	
Q1329	8-729-178-54	TRANSISTOR 2SC2785		R1332	1-246-473-00	CARBON 1K 5% 1/4W	
Q1330	8-729-178-54	TRANSISTOR 2SC2785		R1333	1-246-489-00	CARBON 4.7K 5% 1/4W	
Q1331	8-729-178-54	TRANSISTOR 2SC2785		R1334	1-246-505-00	CARBON 22K 5% 1/4W	
Q1332	8-729-117-54	TRANSISTOR 2SA1175		R1335	1-246-473-00	CARBON 1K 5% 1/4W	
Q1333	8-729-117-54	TRANSISTOR 2SA1175		R1336	1-246-501-00	CARBON 15K 5% 1/4W	
Q1334	8-729-117-54	TRANSISTOR 2SA1175		R1337	1-246-489-00	CARBON 4.7K 5% 1/4W	
Q1335	8-729-178-54	TRANSISTOR 2SC2785		R1338	1-246-473-00	CARBON 1K 5% 1/4W	
Q1336	8-729-178-54	TRANSISTOR 2SC2785		R1339	1-246-473-00	CARBON 1K 5% 1/4W	
Q1337	8-729-178-54	TRANSISTOR 2SC2785		R1340	1-246-457-00	CARBON 220 5% 1/4W	
Q1338	8-729-178-54	TRANSISTOR 2SC2785		R1341	1-246-489-00	CARBON 4.7K 5% 1/4W	
Q1339	8-729-117-54	TRANSISTOR 2SA1175		R1342	1-246-489-00	CARBON 4.7K 5% 1/4W	
Q1340	8-729-117-54	TRANSISTOR 2SA1175		R1343	1-246-489-00	CARBON 4.7K 5% 1/4W	
Q1341	8-729-178-54	TRANSISTOR 2SC2785		R1344	1-246-501-00	CARBON 15K 5% 1/4W	
Q1342	8-729-177-43	TRANSISTOR 2SD774		R1345	1-246-489-00	CARBON 4.7K 5% 1/4W	
Q1343	8-729-177-43	TRANSISTOR 2SD774		R1346	1-246-497-00	CARBON 10K 5% 1/4W	
Q1344	8-729-117-54	TRANSISTOR 2SA1175F		R1347	1-246-473-00	CARBON 1K 5% 1/4W	
<b>RESISTOR</b>							
R1301	1-246-501-00	CARBON 15K 5% 1/4W		R1352	1-246-507-00	CARBON 27K 5% 1/4W	
				R1353	1-246-537-00	CARBON 470K 5% 1/4W	
				R1354	1-246-473-00	CARBON 1K 5% 1/4W	

**NOTE:**

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

=>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- CAPACITORS: MF:  $\mu$ F, PF:  $\mu$ F
- RESISTORS: All resistors are in ohms
- COILS: MMH: mH, UH:  $\mu$ H
- F: nonflammable



**BD BA**

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
R1355	1-246-513-00	CARBON	47K 5% 1/4W	R1409	1-217-371-00	FUSIBLE	0.47 5% 1/4W F
R1356	1-246-475-00	CARBON	1.2K 5% 1/4W	R1410	1-246-457-00	CARBON	220 5% 1/4W
R1357	1-246-461-00	CARBON	330 5% 1/4W	R1465	1-246-471-00	CARBON	820 5% 1/4W
R1358	1-246-461-00	CARBON	330 5% 1/4W	R1481	1-246-471-00	CARBON	820 5% 1/4W
R1359	1-246-461-00	CARBON	330 5% 1/4W	VARIABLE RESISTOR			
R1360	1-246-465-00	CARBON	470 5% 1/4W	RV1301	1-224-641-XX	RES, ADJ, CARBON	470
R1361	1-246-465-00	CARBON	470 5% 1/4W	RV1302	1-224-641-XX	RES, ADJ, CARBON	470
R1362	1-246-471-00	CARBON	470 5% 1/4W	*****			
R1363	1-213-131-00	METAL	100 5% 1W	♦:A-1135-136-A BA BOARD, COMPLETE			
R1364	1-246-489-00	CARBON	4.7K 5% 1/4W	*****			
R1365	1-246-507-00	CARBON	27K 5% 1/4W	1-141-181-11		CAP, TRIMMER	
R1366	1-246-493-00	CARBON	6.8K 5% 1/4W	♦:1-508-784-00		1P PLUG	
R1367	1-246-471-00	CARBON	820 5% 1/4W	♦:1-509-832-00		CONNECTOR ASSY, 1P	
R1368	1-246-483-00	CARBON	2.7K 5% 1/4W	CONNECTOR			
R1369	1-246-473-00	CARBON	1K 5% 1/4W	B1	♦:1-560-123-00	PLUG, CONNECTOR (2.5MM)	3P
R1370	1-246-501-00	CARBON	15K 5% 1/4W	B2	♦:1-560-123-00	PLUG, CONNECTOR (2.5MM)	3P
R1371	1-246-485-00	CARBON	3.3K 5% 1/4W	B4	♦:1-560-123-00	PLUG, CONNECTOR (2.5MM)	3P
R1372	1-246-457-00	CARBON	220 5% 1/4W	B6	♦:1-560-125-00	PLUG, CONNECTOR (2.5MM)	5P
R1373	1-246-457-00	CARBON	220 5% 1/4W	B7	♦:1-560-125-00	PLUG, CONNECTOR (2.5MM)	5P
R1374	1-246-475-00	CARBON	1.2K 5% 1/4W	B8	♦:1-560-123-00	PLUG, CONNECTOR (2.5MM)	3P
R1375	1-246-477-00	CARBON	1.5K 5% 1/4W	B10	♦:1-560-124-00	PLUG, CONNECTOR (2.5MM)	4P
R1376	1-246-475-00	CARBON	1.2K 5% 1/4W	BA3	♦:1-508-766-00	4P PLUG (M)	
R1377	1-246-477-00	CARBON	1.5K 5% 1/4W	BA5	1-555-958-31	CONNECTOR ASSY (2.5MM)	2P
R1378	1-246-475-00	CARBON	1.2K 5% 1/4W	BA5	♦:1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)	
R1379	1-246-477-00	CARBON	1.5K 5% 1/4W	BA9	♦:1-560-126-00	PLUG, CONNECTOR (2.5MM)	6P
R1380	1-246-465-00	CARBON	470 5% 1/4W	CAPACITOR			
R1381	1-246-465-00	CARBON	470 5% 1/4W	C301	1-123-333-00	ELECT	100MF 20% 25V
R1382	1-246-465-00	CARBON	470 5% 1/4W	C302	1-123-333-00	ELECT	100MF 20% 25V
R1383	1-246-493-00	CARBON	6.8K 5% 1/4W	C304	1-123-356-00	ELECT	10MF 20% 25V
R1384	1-246-484-00	CARBON	3K 5% 1/4W	C305	1-102-973-00	CERAMIC	100PF 5% 50V
R1385	1-246-473-00	CARBON	1K 5% 1/4W	C306	1-123-380-00	ELECT	1MF 20% 50V
R1386	1-246-481-00	CARBON	2.2K 5% 1/4W	C307	1-123-380-00	ELECT	1MF 20% 50V
R1387	1-246-475-00	CARBON	1.2K 5% 1/4W	C308	1-102-978-00	CERAMIC	220PF 5% 50V
R1389	1-246-473-00	CARBON	1K 5% 1/4W	C309	1-123-380-00	ELECT	1MF 20% 50V
R1390	1-246-473-00	CARBON	1K 5% 1/4W	C310	1-102-971-00	CERAMIC	82PF 5% 50V
R1391	1-246-473-00	CARBON	1K 5% 1/4W	C312	1-102-973-00	CERAMIC	100PF 5% 50V
R1392	1-246-457-00	CARBON	220 5% 1/4W	C313	1-102-978-00	CERAMIC	220PF 5% 50V
R1393	1-246-457-00	CARBON	220 5% 1/4W	C314	1-102-858-00	CERAMIC	10PF 0.5PF 50V
R1394	1-246-457-00	CARBON	220 5% 1/4W	C315	1-102-858-00	CERAMIC	10PF 0.5PF 50V
R1395	1-246-457-00	CARBON	220 5% 1/4W	C316	1-123-380-00	ELECT	1MF 20% 50V
R1396	1-246-497-00	CARBON	10K 5% 1/4W	C317	1-123-380-00	ELECT	1MF 20% 50V
R1397	1-246-497-00	CARBON	10K 5% 1/4W	C318	1-108-381-00	MYLAR	0.022MF 10% 100V
R1398	1-246-497-00	CARBON	10K 5% 1/4W	C319	1-108-385-00	MYLAR	0.047MF 10% 100V
R1399	1-246-473-00	CARBON	1K 5% 1/4W	C320	1-108-369-00	MYLAR	0.0022MF 10% 100V
R1400	1-246-457-00	CARBON	220 5% 1/4W	C321	1-102-973-00	CERAMIC	100PF 5% 50V
R1401	1-246-481-00	CARBON	2.2K 5% 1/4W	C322	1-102-971-00	CERAMIC	82PF 5% 50V
R1402	1-246-490-00	CARBON	5.1K 5% 1/4W	C323	1-123-380-00	ELECT	1MF 20% 50V
R1403	1-246-499-00	CARBON	12K 5% 1/4W	C324	1-123-380-00	ELECT	1MF 20% 50V
R1404	1-246-482-00	CARBON	2.4K 5% 1/4W	C325	1-123-318-00	ELECT	33MF 20% 16V
R1405	1-213-125-00	METAL	33 5% 1W F				
R1406	1-211-443-00	CARBON	470 5% 1/8W F				
R1407	1-206-473-00	METAL	27 5% 2W F				
R1408	1-246-501-00	CARBON	15K 5% 1/4W				

**NOTE:**

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

- =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.
- Items marked "♦" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS      RESISTORS      COILS

• MF :  $\mu$ F, PF :  $\mu$ PF      • All resistors are in ohms      • MMH : mH, UH :  $\mu$ H

• F : nonflammable



**BA**

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
C326	1-123-356-00	ELECT	10MF 20% 25V	C455	1-101-361-00	CERAMIC 150PF 5% 50V	
C327	1-123-356-00	ELECT	10MF 20% 16V	C456	1-123-356-00	ELECT 10MF 20% 25V	
C328	1-123-380-00	ELECT	1MF 20% 50V	C457	1-102-965-00	CERAMIC 39P 10% 50V	
C329	1-123-380-00	ELECT	1MF 20% 50V				
C330	1-123-356-00	ELECT	10MF 20% 50V				
						<b>FILTER</b>	
C331	1-108-389-00	MYLAR	0.1MF 10% 100V	CF301	1-409-332-00	CERAMIC TRAP (4.5MHZ)	
C332	1-108-389-00	MYLAR	0.1MF 10% 100V				
C333	1-108-378-00	MYLAR	0.012MF 10% 100V			<b>TRIMER</b>	
C334	1-123-318-00	ELECT	33MF 20% 16V	CT301	1-141-212-00	CAP, TRIMMER	
C335	1-123-333-00	ELECT	100MF 20% 25V				
						<b>DIODE</b>	
C336	1-123-356-00	ELECT	10MF 20% 50V	D301	>8-719-911-19	DIODE 1S119	
C337	1-101-810-00	CERAMIC	100PF 5% 500V	D302	>8-719-911-19	DIODE 1S119	
C338	1-123-333-00	ELECT	100MF 20% 16V	D303	>8-719-911-19	DIODE 1S119	
C339	1-101-880-00	CERAMIC	47PF 5% 50V	D304	8-719-175-07	DIODE RD7.5E-B	
C340	1-123-356-00	ELECT	10MF 20% 16V				
						<b>DELAY LINE</b>	
C341	1-102-963-00	CERAMIC	33PF 5% 50V	DL301	1-415-207-21	DELAY LINE (1H)	
C342	1-121-961-00	ELECT	4.7MF 20% 25V				
C375	1-121-806-00	ELECT	10MF 10% 16V			<b>IC</b>	
C401	1-102-959-00	CERAMIC	22PF 5% 50V	IC301	8-759-908-41	IC CX-841	
C402	1-123-380-00	ELECT	1MF 20% 50V	IC302	8-759-125-56	IC CX-556D	
C403	1-102-953-00	CERAMIC	18PF 5% 50V			<b>COIL</b>	
C404	1-123-380-00	ELECT	1MF 20% 50V	L301	1-407-696-00	MICRO INDUCTOR 18UH	
C406	1-123-380-00	ELECT	1MF 20% 50V	L302	1-407-571-00	COIL, VARIABLE 22MH	
C407	1-123-380-00	ELECT	1MF 20% 50V	L303	1-407-696-00	MICRO INDUCTOR 18UH	
C409	1-102-965-00	CERAMIC	39PF 5% 50V	L304	1-407-695-00	MICRO INDUCTOR 15UH	
C410	1-101-888-00	CERAMIC	68PF 5% 50V	L305	1-407-701-00	MICRO INDUCTOR 47UH	
				L306	1-407-693-00	MICRO INDUCTOR 10UH	
C411	1-123-379-00	ELECT	0.47MF 20% 50V	L307	1-407-697-00	MICRO INDUCTOR 22UH	
C412	1-123-356-00	ELECT	10MF 20% 16V	L308	1-409-193-00	COIL 3.58MHZ TRAP	
C413	1-102-978-00	CERAMIC	220PF 5% 50V	L309	1-408-247-00	MICRO INDUCTOR 33MH	
C414	1-102-129-00	CERAMIC	0.01MF 10% 50V	L310	1-407-695-00	MICRO INDUCTOR 15UH	
C415	1-102-115-00	CERAMIC	560PF 10% 50V	L401	1-407-166-XX	MICRO INDUCTOR 56UH	
				L402	1-407-701-00	MICRO INDUCTOR 47UH	
C416	1-123-379-00	ELECT	0.47MF 20% 50V	L403	1-407-706-00	MICRO INDUCTOR 120UH	
C417	1-123-356-00	ELECT	10MF 20% 16V	L404	1-408-243-00	MICRO INDUCTOR 12MH	
C418	1-101-004-00	CERAMIC	0.01MF 50V	L405	1-407-694-00	MICRO INDUCTOR 12UH	
C419	1-123-586-00	ELECT	0.1MF 20% 50V	L406	1-407-694-00	MICRO INDUCTOR 12UH	
C420	1-121-392-00	ELECT	3.3MF 25V	L407	1-407-694-00	MICRO INDUCTOR 12UH	
				L409	1-407-695-00	MICRO INDUCTOR 15UH	
C421	1-123-328-00	ELECT	4.7MF 20% 25V	L411	1-408-438-11	MICRO INDUCTOR 4.7UH	
C422	1-123-447-00	ELECT	0.22MF 20% 50V	L412	1-408-438-11	MICRO INDUCTOR 4.7UH	
C423	1-123-447-00	ELECT	0.22MF 20% 50V	L413	1-408-438-11	MICRO INDUCTOR 4.7UH	
C424	1-102-973-00	CERAMIC	100P 5% 50V			<b>TRANSISTOR</b>	
C425	1-102-978-00	CERAMIC	220P 5% 50V	Q301	8-729-178-54	TRANSISTOR 2SC2785	
				Q302	8-729-178-54	TRANSISTOR 2SC2785	
C426	1-102-959-00	CERAMIC	22PF 5% 50V	Q303	8-729-178-54	TRANSISTOR 2SC2785	
C428	1-108-634-00	MYLAR	0.047MF 10% 100V	Q304	8-729-178-54	TRANSISTOR 2SC2785	
C429	1-102-965-00	CERAMIC	39PF 5% 50V	Q305	8-729-117-54	TRANSISTOR 2SA1175	
C430	1-102-965-00	CERAMIC	39PF 5% 50V				
C431	1-102-965-00	CERAMIC	39PF 5% 50V				
C432	1-123-381-00	ELECT	2.2MF 20% 50V				
C435	1-101-884-00	CERAMIC	56PF 5% 50V				
C436	1-102-947-00	CERAMIC	10PF 5% 50V				
C437	1-102-971-00	CERAMIC	82PF 5% 50V				
C438	1-101-888-00	CERAMIC	68PF 5% 50V				
C439	1-123-380-00	ELECT	1MF 20% 50V				
C454	1-102-888-00	CERAMIC	150PF 5% 50V				

**NOTE:**

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

- \* =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.
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- \* All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- \* CAPACITORS: MF :  $\mu$ F, PF :  $\mu$ PF
- \* RESISTORS: All resistors are in ohms
- \* F : nonflammable
- \* COILS: MMH : mH, UH :  $\mu$ H



**BA**

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
Q306	8-729-178-54	TRANSISTOR 2SC2785		R325	1-246-469-00	CARBON 680 5% 1/4W	
Q307	8-729-178-54	TRANSISTOR 2SC2785		R326	1-246-473-00	CARBON 1K 5% 1/4W	
Q308	8-729-178-54	TRANSISTOR 2SC2785		R327	1-246-473-00	CARBON 1K 5% 1/4W	
Q309	8-729-178-54	TRANSISTOR 2SC2785		R328	1-246-465-00	CARBON 470 5% 1/4W	
Q310	=>8-729-178-54	TRANSISTOR 2SC2785		R329	1-246-471-00	CARBON 820 5% 1/4W	
Q311	=>8-729-178-54	TRANSISTOR 2SC2785		R331	1-246-473-00	CARBON 1K 5% 1/4W	
Q312	=>8-729-117-54	TRANSISTOR 2SA1175		R332	1-246-459-00	CARBON 270 5% 1/4W	
Q313	=>8-729-178-54	TRANSISTOR 2SC2785		R333	1-246-459-00	CARBON 270 5% 1/4W	
Q315	=>8-729-178-54	TRANSISTOR 2SC2785		R334	1-246-465-00	CARBON 470 5% 1/4W	
Q316	=>8-729-178-54	TRANSISTOR 2SC2785		R335	1-246-475-00	CARBON 1.2K 5% 1/4W	
Q317	8-729-178-54	TRANSISTOR 2SC2785		R336	1-246-461-00	CARBON 330 5% 1/4W	
Q318	8-729-117-54	TRANSISTOR 2SA1175		R337	1-246-473-00	CARBON 1K 5% 1/4W	
Q319	=>8-729-178-54	TRANSISTOR 2SC2785		R338	1-246-473-00	CARBON 1K 5% 1/4W	
Q320	8-729-117-54	TRANSISTOR 2SA1175		R339	1-246-457-00	CARBON 220 5% 1/4W	
Q321	8-729-117-54	TRANSISTOR 2SA1175		R340	1-246-467-00	CARBON 560 5% 1/4W	
Q322	8-729-178-54	TRANSISTOR 2SC2785		R341	1-246-491-00	CARBON 5.6K 5% 1/4W	
Q323	8-729-178-54	TRANSISTOR 2SC2785		R342	1-246-483-00	CARBON 2.7K 5% 1/4W	
Q324	8-729-178-54	TRANSISTOR 2SC2785		R343	1-246-457-00	CARBON 220 5% 1/4W	
Q325	8-729-178-54	TRANSISTOR 2SC2785		R344	1-246-469-00	CARBON 680 5% 1/4W	
Q327	8-729-178-54	TRANSISTOR 2SC2785		R345	1-246-487-00	CARBON 3.9K 5% 1/4W	
Q328	8-729-178-54	TRANSISTOR 2SC2785-R		R346	1-202-667-00	COMPOSITION 8.2M 5% 1/2W	
Q329	8-729-117-51	TRANSISTOR 2SA1175-R		R347	1-246-513-00	CARBON 47K 5% 1/4W	
Q401	8-729-178-54	TRANSISTOR 2SC2785		R348	1-246-543-00	CARBON 820K 5% 1/4W	
Q402	=>8-729-117-54	TRANSISTOR 2SA1175		R349	1-246-483-00	CARBON 2.7K 5% 1/4W	
Q403	=>8-729-178-54	TRANSISTOR 2SC2785		R350	1-246-493-00	CARBON 6.8K 5% 1/4W	
Q404	=>8-729-178-54	TRANSISTOR 2SC2785		R351	1-202-645-00	COMPOSITION 1M 5% 1/2W	
Q405	=>8-729-178-54	TRANSISTOR 2SC2785		R352	1-202-645-00	COMPOSITION 1M 5% 1/2W	
<b>RESISTOR</b>				R353	1-246-493-00	CARBON 1.8K 5% 1/4W	
R301	1-246-497-00	CARBON 10K 5% 1/4W		R354	1-246-481-00	CARBON 2.2K 5% 1/4W	
R302	1-246-473-00	CARBON 1K 5% 1/4W		R355	1-246-497-00	CARBON 10K 5% 1/4W	
R303	1-246-493-00	CARBON 6.8K 5% 1/4W		R356	1-246-507-00	CARBON 27K 5% 1/4W	
R304	1-246-493-00	CARBON 6.8K 5% 1/4W		R357	1-246-499-00	CARBON 12K 5% 1/4W	
R305	1-246-477-00	CARBON 1.5K 5% 1/4W		R358	1-246-497-00	CARBON 10K 5% 1/4W	
R306	1-246-465-00	CARBON 470 5% 1/4W		R359	1-246-495-00	CARBON 8.2K 5% 1/4W	
R307	1-246-493-00	CARBON 6.8K 5% 1/4W		R360	1-246-490-00	CARBON 5.1K 5% 1/4W	
R308	1-246-471-00	CARBON 820 5% 1/4W		R361	1-246-507-00	CARBON 27K 5% 1/4W	
R309	1-246-501-00	CARBON 15K 5% 1/4W		R362	1-246-517-00	CARBON 68K 5% 1/4W	
R310	1-246-501-00	CARBON 15K 5% 1/4W		R363	1-246-473-00	CARBON 1K 5% 1/4W	
R311	1-246-495-00	CARBON 8.2K 5% 1/4W		R364	1-246-489-00	CARBON 4.7K 5% 1/4W	
R312	1-246-465-00	CARBON 470 5% 1/4W		R365	1-246-499-00	CARBON 12K 5% 1/4W	
R313	1-246-465-00	CARBON 470 5% 1/4W		R366	1-246-467-00	CARBON 560 5% 1/4W	
R314	1-246-477-00	CARBON 1.5K 5% 1/4W		R367	1-246-521-00	CARBON 100K 5% 1/4W	
R315	1-246-481-00	CARBON 2.2K 5% 1/4W		R368	1-246-497-00	CARBON 10K 5% 1/4W	
R316	1-246-457-00	CARBON 220 5% 1/4W		R369	1-246-457-00	CARBON 220 5% 1/4W	
R317	1-246-469-00	CARBON 680 5% 1/4W		R370	1-246-481-00	CARBON 2.2K 5% 1/4W	
R318	1-246-445-00	CARBON 68 5% 1/4W		R371	1-246-487-00	CARBON 3.9K 5% 1/4W	
R319	1-246-457-00	CARBON 220 5% 1/4W		R372	1-246-473-00	CARBON 1K 5% 1/4W	
R320	1-246-469-00	CARBON 680 5% 1/4W		R373	1-246-473-00	CARBON 1K 5% 1/4W	
R321	1-246-459-00	CARBON 270 5% 1/4W		R374	1-246-467-00	CARBON 560 5% 1/4W	
R322	1-246-469-00	CARBON 680 5% 1/4W		R375	1-246-485-00	CARBON 3.3K 5% 1/4W	
R323	1-246-469-00	CARBON 680 5% 1/4W		R376	1-246-509-00	CARBON 33K 5% 1/4W	
R324	1-246-469-00	CARBON 680 5% 1/4W		R377	1-246-771-00	CARBON 100 1/8W	
				R378	1-246-467-00	CARBON 560 5% 1/4W	

**NOTE:**

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- Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- CAPACITORS
  - MF :  $\mu F$ , PF :  $\mu\mu F$
- RESISTORS
  - All resistors are in ohms
  - F : nonflammable
- COILS
  - MMH : mH, UH :  $\mu H$



# B A P Z F

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark	
R379	1-246-473-00	CARBON	1K 5% 1/4W	R455	1-246-499-00	CARBON	12K 5% 1/4W	
R381	1-246-495-00	CARBON	8.2K 5% 1/4W	R456	1-246-461-00	CARBON	330 5% 1/4W	
R383	1-246-497-00	CARBON	10K 5% 1/4W	R457	1-246-513-00	CARBON	47K 5% 1/4W	
R384	1-246-481-00	CARBON	2.2K 5% 1/4W	R458	1-246-495-00	CARBON	8.2K 5% 1/4W	
R386	1-246-485-00	CARBON	3.3K 5% 1/4W	R459	1-246-457-00	CARBON	220 5% 1/4W	
R388	1-246-521-00	CARBON	100K 5% 1/4W	R460	1-246-457-00	CARBON	220 5% 1/4W	
R401	1-246-472-00	CARBON	910 5% 1/4W	R461	1-246-457-00	CARBON	220 5% 1/4W	
R402	1-246-479-00	CARBON	1.8K 5% 1/4W	R470	1-246-497-00	CARBON	10K 5% 1/4W	
R403	1-246-479-00	CARBON	1.8K 5% 1/4W	R472	1-246-465-00	CARBON	470 5% 1/4W	
R404	1-246-471-00	CARBON	820 5% 1/4W	<b>VARIABLE RESISTOR</b>				
R405	1-246-487-00	CARBON	3.9K 5% 1/4W	RV301	1-224-640-XX	RES, ADJ, CARBON	330	
R406	1-246-497-00	CARBON	10K 5% 1/4W	RV401	1-224-552-00	RES, ADJ, CARBON	470K	
R407	1-246-479-00	CARBON	1.8K 5% 1/4W	RV402	1-224-644-XX	RES, ADJ, CARBON	4.7K	
R408	1-246-487-00	CARBON	3.9K 5% 1/4W	<b>TRANSFORMER</b>				
R409	1-246-473-00	CARBON	1K 5% 1/4W	T401	1-425-786-00	TRANSFORMER, BANDPASS (BPT)		
R410	1-246-483-00	CARBON	2.7K 5% 1/4W	<b>CRYSTAL</b>				
R411	1-246-455-00	CARBON	180 5% 1/4W	X401	1-527-396-00	CRYSTAL, OSC		
R412	1-246-495-00	CARBON	8.2K 5% 1/4W	*****				
R413	1-246-483-00	CARBON	2.7K 5% 1/4W	▲:1-602-171-00	P BOARD			
R414	1-246-477-00	CARBON	1.5K 5% 1/4W	*****				
R415	1-246-483-00	CARBON	2.7K 5% 1/4W	T1551A	1-439-276-00	TRANSFORMER ASSY, FLYBACK;FBT		
R416	1-246-473-00	CARBON	1K 5% 1/4W	*****				
R417	1-246-483-00	CARBON	2.7K 5% 1/4W	▲:1-601-981-00	Z BOARD			
R418	1-246-477-00	CARBON	1.5K 5% 1/4W	*****				
R419	1-246-473-00	CARBON	1K 5% 1/4W	<b>CAPACITOR</b>				
R420	1-246-473-00	CARBON	1K 5% 1/4W	C1905	1-102-030-00	CERAMIC	330PF 10% 500V	
R421	1-246-505-00	CARBON	22K 5% 1/4W	<b>TRANSISTOR</b>				
R422	1-246-497-00	CARBON	10K 5% 1/4W	Q1904	8-729-372-31	TRANSISTOR	2SC1723	
R423	1-246-506-00	CARBON	24K 5% 1/4W	*****				
R424	1-246-439-00	CARBON	39 5% 1/4W	▲:1-606-053-00	F BOARD			
R424	1-246-539-00	CARBON	560K 5% 1/4W	*****				
R425	1-246-461-00	CARBON	330 5% 1/4W	<b>CAPACITOR</b>				
R426	1-246-467-00	CARBON	560 5% 1/4W	C621	▲.1-102-189-00	CERAMIC	0.0047MF 125V	
R427	1-246-499-00	CARBON	12K 5% 1/4W	C622	▲.1-102-189-00	CERAMIC	0.0047MF 125V	
R429	1-246-497-00	CARBON	10K 5% 1/4W	C623	▲.1-125-260-00	ELECT	470MF 200V	
R430	1-246-461-00	CARBON	330 5% 1/4W	C624	▲.1-125-260-00	ELECT	470MF 200V	
R431	1-246-473-00	CARBON	1K 5% 1/4W	<b>DIODE</b>				
R432	1-246-477-00	CARBON	1.5K 5% 1/4W	D621	>8-719-911-55	DIODE U05G		
R433	1-246-461-00	CARBON	330 5% 1/4W	D622	>8-719-911-55	DIODE U05G		
R434	1-246-461-00	CARBON	330 5% 1/4W	<b>CONNECTOR</b>				
R435	1-246-461-00	CARBON	330 5% 1/4W	F1	1-508-765-00	3P PLUG (M)		
R436	1-246-489-00	CARBON	4.7K 5% 1/4W	*****				
R437	1-246-497-00	CARBON	10K 5% 1/4W	<b>COILS</b>				
R438	1-246-485-00	CARBON	3.3K 5% 1/4W	*****				
R439	1-246-497-00	CARBON	10K 5% 1/4W	*****				
R440	1-246-505-00	CARBON	22K 5% 1/4W	*****				
R441	1-246-497-00	CARBON	10K 5% 1/4W	*****				
R442	1-246-505-00	CARBON	22K 5% 1/4W	*****				
R443	1-246-485-00	CARBON	3.3K 5% 1/4W	*****				
R446	1-246-473-00	CARBON	1K 5% 1/4W	*****				
R447	1-246-487-00	CARBON	3.9K 5% 1/4W	*****				
R448	1-246-465-00	CARBON	470 5% 1/4W	*****				
R449	1-246-479-00	CARBON	1.8K 5% 1/4W	*****				
R450	1-246-459-00	CARBON	270 5% 1/4W	*****				
R451	1-246-473-00	CARBON	1K 5% 1/4W	*****				
R452	1-246-465-00	CARBON	470 5% 1/4W	*****				
R454	1-246-481-00	CARBON	2.2K 5% 1/4W	*****				

**NOTE:**

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

•>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

**CAPACITORS**

• MF :  $\mu$ F, PF :  $\mu$  $\mu$ F

**RESISTORS**

• All resistors are in ohms  
• F : nonflammable

**COILS**

• MMH : mH, UH :  $\mu$ H



# F U1 U2 N

Ref.No Part No Description  
 F2 1-506-348-XX 3P PLUG (L)

### RESISTOR

R621  $\Delta$  1-244-925-00 CARBON 150K 5% 1/2W  
 R622  $\Delta$  1-244-927-00 CARBON 180K 5% 1/2W

$\Delta$ :1-606-092-00 U1 BOARD  
 \*\*\*\*\*

### CAPACITOR

C01 1-108-583-00 MYLAR 0.015MF 5% 50V  
 C02 1-108-583-00 MYLAR 0.015MF 5% 50V

### RESISTOR

R01 1-246-446-00 CARBON 75 5% 1/4W  
 R02 1-246-442-00 CARBON 51 5% 1/4W

### VARIABLE RESISTOR

RV901 1-228-490-00 RES, VAR, CARBON 10K

$\Delta$ :1-606-048-00 U2 BOARD  
 \*\*\*\*\*

$\Delta$ :1-560-686-00 CONNECTOR (PLUG) 34P

### CONNECTOR

BD1 1-556-098-21 CONNECTOR ASSY (2.5MM) 12P  
 BD2 1-555-965-71 CONNECTOR ASSY (2.5MM) 5P  
 BD3 1-556-002-51 CONNECTOR ASSY (2.5MM) 6P

$\Delta$ :A-1280-099-A N BOARD, COMPLETE  
 \*\*\*\*\*

$\Delta$ :1-508-915-11 PLUG, 1P

### CAPACITOR

C101 1-102-980-00 CERAMIC 270PF 5% 50V  
 C102 1-102-824-00 CERAMIC 430PF 5% 50V  
 C103 1-102-978-00 CERAMIC 220PF 5% 50V  
 C104 1-123-382-00 ELECT 3.3MF 20% 50V  
 C105 1-123-356-00 ELECT 10MF 20% 16V  
 C106 1-123-336-00 ELECT 470MF 20% 25V  
 C107 1-101-003-00 CERAMIC 0.0047MF 50V  
 C108 1-101-003-00 CERAMIC 0.0047MF 50V  
 C109 1-101-003-00 CERAMIC 0.0047MF 50V  
 C110 1-123-356-00 ELECT 10MF 20% 16V  
 C111 1-101-006-00 CERAMIC 0.047MF 50V  
 C112 1-123-323-00 ELECT 470MF 20% 16V  
 C113 1-123-330-00 ELECT 22MF 20% 16V

### NOTE:

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

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\* All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS  
 \* MF :  $\mu$ F, PF :  $\mu$  $\mu$ F

RESISTORS  
 \* All resistors are in ohms  
 \* F : nonflammable

COILS  
 \* MMH : mH, UH :  $\mu$ H

Ref.No	Part No	Description	10MF	20%	16V	Remark
C114	1-123-356-00	ELECT	0.47MF	20%	35V	
C115	1-131-345-00	TANTALUM	0.47MF	10%	35V	
C115	1-131-345-00	TANTALUM	0.0047MF		50V	
C116	1-101-003-00	CERAMIC	0.001MF	10%	50V	
C117	1-102-074-00	CERAMIC				
C118	1-131-345-00	TANTALUM	0.47MF	10%	35V	
C119	1-232-019-00	COMPOSITION	0.001MF			
C120	1-102-074-00	CERAMIC				
<b>COMPOSITION CIRCUIT BLOCK</b>						
CP101	1-232-185-11	COMPOSITION CIRCUIT BLOCK				
<b>DIODE</b>						
D101	=>8-719-911-19	DIODE 1S5119				
D102	=>8-719-911-19	DIODE 1S5119				
D103	=>8-719-911-19	DIODE 1S5119				
D104	=>8-719-911-19	DIODE 1S5119				
D105	=>8-719-911-19	DIODE 1S5119				
D106	=>8-719-911-19	DIODE 1S5119				
D107	=>8-719-900-93	DIODE V09C				
D108	=>8-719-900-93	DIODE V09C				
D109	=>8-719-900-93	DIODE V09C				
D110	=>8-719-900-93	DIODE V09C				
D111	=>8-719-900-93	DIODE V09C				
D112	8-719-111-07	DIODE RD11E-B				
D113	8-719-102-82	DIODE RD7.5E-N3				
<b>IC</b>						
IC101	8-759-162-36	IC UPD546C236				
IC102	8-759-240-16	IC TC4016BP				
IC103	8-759-145-58	IC UPC4558C				
<b>CONNECTOR</b>						
K2	1-556-016-71	CONNECTOR ASSY (2.5MM) 3P				
<b>COIL</b>						
L101	1-408-398-00	MICRO INDUCTOR 1.2UH				
<b>CONNECTOR</b>						
N1	$\Delta$ :1-506-371-00	2P PLUG (L)				
N2	$\Delta$ :1-508-786-00	2P PLUG (M)				
N3	$\Delta$ :1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P				
N4	$\Delta$ :1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)				
N5	$\Delta$ :1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)				
N6	$\Delta$ :1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P				
N7	$\Delta$ :1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P				
N8	$\Delta$ :1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)				
N9	$\Delta$ :1-508-784-00	1P PLUG				
<b>TRANSISTOR</b>						
Q101	8-729-178-54	TRANSISTOR 2SC2785				
Q102	8-729-178-54	TRANSISTOR 2SC2785				
Q103	8-729-117-54	TRANSISTOR 2SA1175				



**N C**

Ref.No	Part No	Description	Remark
Q104	8-729-178-54	TRANSISTOR 2SC2785	
Q105	8-729-178-54	TRANSISTOR 2SC2785	
Q106	8-729-178-54	TRANSISTOR 2SC2785	
Q107	8-729-117-54	TRANSISTOR 2SA1175	
Q108	8-729-178-54	TRANSISTOR 2SC2785	
Q109	8-729-177-43	TRANSISTOR 2SD774	
Q110	8-729-117-54	TRANSISTOR 2SA1175-R	
Q111	8-729-117-54	TRANSISTOR 2SA1175-R	
Q112	=>8-769-200-20	TRANSISTOR 2SK107-2	
<b>RESISTOR</b>			
R101	1-246-537-00	CARBON 470K 5% 1/4W	
R102	1-246-473-00	CARBON 1K 5% 1/4W	
R103	1-246-473-00	CARBON 1K 5% 1/4W	
R104	1-246-473-00	CARBON 1K 5% 1/4W	
R105	1-246-505-00	CARBON 22K 5% 1/4W	
R106	1-246-505-00	CARBON 22K 5% 1/4W	
R107	1-246-505-00	CARBON 22K 5% 1/4W	
R108	1-246-489-00	CARBON 4.7K 5% 1/4W	
R109	1-246-485-00	CARBON 3.3K 5% 1/4W	
R110	1-246-515-00	CARBON 56K 5% 1/4W	
R111	1-246-505-00	CARBON 22K 5% 1/4W	
R112	1-246-497-00	CARBON 10K 5% 1/4W	
R113	1-246-497-00	CARBON 10K 5% 1/4W	
R114	1-246-497-00	CARBON 10K 5% 1/4W	
R115	1-246-497-00	CARBON 10K 5% 1/4W	
R116	1-246-505-00	CARBON 22K 5% 1/4W	
R117	1-246-515-00	CARBON 56K 5% 1/4W	
R118	1-246-513-00	CARBON 47K 5% 1/4W	
R119	1-246-505-00	CARBON 22K 5% 1/4W	
R120	1-246-489-00	CARBON 4.7K 5% 1/4W	
R121	1-246-505-00	CARBON 22K 5% 1/4W	
R122	1-246-475-00	CARBON 1.2K 5% 1/4W	
R123	1-246-505-00	CARBON 22K 5% 1/4W	
R124	1-246-495-00	CARBON 8.2K 5% 1/4W	
R125	1-246-475-00	CARBON 1.2K 5% 1/4W	
R126	1-246-515-00	CARBON 56K 5% 1/4W	
R127	1-246-509-00	CARBON 33K 5% 1/4W	
R128	1-246-491-00	CARBON 5.6K 5% 1/4W	
R129	1-246-505-00	CARBON 22K 5% 1/4W	
R130	1-246-499-00	CARBON 12K 5% 1/4W	
R131	1-246-473-00	CARBON 1K 5% 1/4W	
R132	1-247-023-00	CARBON 2.2 5% 1/8W F	
R133	1-211-409-00	CARBON 10 5% 1/8W F	
R134	1-206-479-00	METAL 47 5% 2W F	
R135	1-246-473-00	CARBON 1K 5% 1/4W	
R136	1-246-530-00	CARBON 240K 5% 1/4W	
R137	1-246-505-00	CARBON 22K 5% 1/4W	
R138	1-246-497-00	CARBON 10K 5% 1/4W	
R139	1-246-477-00	CARBON 1.5K 5% 1/4W	
R140	1-246-485-00	CARBON 3.3K 5% 1/4W	
R141	1-246-494-00	CARBON 7.5K 5% 1/4W	
R142	1-246-489-00	CARBON 4.7K 5% 1/4W	

Ref.No	Part No	Description	Remark
R143	1-246-473-00	CARBON 1K 5% 1/4W	
R144	1-246-473-00	CARBON 1K 5% 1/4W	
R145	1-246-513-00	CARBON 47K 5% 1/4W	
R146	1-246-487-00	CARBON 3.9K 5% 1/4W	
R147	1-246-505-00	CARBON 22K 5% 1/4W	
R148	1-246-505-00	CARBON 22K 5% 1/4W	
R149	1-246-479-00	CARBON 1.8K 5% 1/4W	
R150	1-246-497-00	CARBON 10K 5% 1/4W	
R151	1-246-497-00	CARBON 10K 5% 1/4W	
R152	1-246-497-00	CARBON 10K 5% 1/4W	
R153	1-246-473-00	CARBON 1K 5% 1/4W	
R154	1-246-473-00	CARBON 1K 5% 1/4W	
R155	1-246-473-00	CARBON 1K 5% 1/4W	
R156	1-246-497-00	CARBON 10K 5% 1/4W	
R157	1-232-184-11	COMPOSITION CIRCUIT BLOCK	
R158	1-231-569-00	COMPOSITION CIRCUIT BLOCK	
R159	1-246-473-00	CARBON 1K 5% 1/4W	
R160	1-235-084-00	RES. COMPONENT	
<b>RELAY</b>			
RL101	1-515-357-00	RELAY	
<b>CRYSTAL</b>			
X101	1-527-532-00	OSCILLATOR, CERAMIC	
*****			
▲:A-1330-335-A C BOARD, COMPLETE			
*****			
1-526-560-41 SOCKET ASSY, CRT			
▲:1-606-052-00 PC BOARD, C			
▲:4-314-225-00 HEAT SINK, (A)			
1-555-965-61 CONNECTOR ASSY (2.5MM) 5P			
<b>CONNECTOR</b>			
C1	▲:1-506-371-00	2P PLUG	
C2	▲:1-508-784-00	1P PLUG	
<b>CAPACITOR</b>			
C701	1-129-779-00	FILM 0.022MF 20% 1KV	
C702	1-102-155-00	CERAMIC 330PF 20% 2KV	
C703	1-123-383-00	ELECT 4.7MF 20% 100V	
C704	1-102-959-00	CERAMIC 22PF 5% 50V	
C706	1-123-330-00	ELECT 22MF 20% 25V	
C707	1-102-959-00	CERAMIC 22PF 5% 50V	
C708	1-102-959-00	CERAMIC 22PF 5% 50V	
C709	1-121-759-00	ELECT 4.7MF 5% 250V	
C710	1-123-356-00	ELECT 10MF 20% 16V	
C711	1-108-385-00	MYLAR 0.047MF 10% 100V	
C713	1-102-129-00	CERAMIC 0.01MF 10% 50V	
C714	1-101-004-00	CERAMIC 0.01MF 50V	
C715	1-101-004-00	CERAMIC 0.01MF 50V	
C716	1-123-356-00	ELECT 10MF 20% 25V	

**NOTE:**

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• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

**CAPACITORS**  
• MF : μF, PF : μμF

**RESISTORS**  
• All resistors are in ohms  
• F : nonflammable

**COILS**  
• MMH : mH, UH : μH







Ref.No	Part No	Description	Remark
R756	1-246-497-00	CARBON 10K 5% 1/4W	
R757	1-246-475-00	CARBON 1.2K 5% 1/4W	
R758	1-206-682-00	METAL 5.6K 5% 2W F	
R759	1-246-457-00	CARBON 220 5% 1/4W	
R760A	1-206-678-00	METAL 3.9K 5% 2W F	
R760B	1-246-497-00	CARBON 10K 5% 1/4W	
R761A	1-206-678-00	METAL 3.9K 5% 2W F	
R761B	1-246-521-00	CARBON 100K 5% 1/4W	
R762A	1-212-352-00	METAL 0.22 5% 1W F	
R762B	1-246-477-00	CARBON 1.5K 5% 1/4W	
R763	1-213-144-00	METAL 1.2K 5% 1W F	
R766	1-246-493-00	CARBON 6.8K 5% 1/4W	

VARIABLE RESISTOR

RV701	1-226-157-00	RES, ADJ, METAL GLAZE 1M
RV702	1-224-644-XX	RES, ADJ, CARBON 4.7K
RV703	1-224-644-XX	RES, ADJ, CARBON 4.7K
RV704	1-224-644-XX	RES, ADJ, CARBON 4.7K
RV705	1-224-640-XX	RES, ADJ, CARBON 330

SPARK GAP

SG701	1-519-063-XX	DISCHARGING GAP
SG702	1-519-063-XX	DISCHARGING GAP
SG703	1-519-063-XX	DISCHARGING GAP

**▲: A-1345-363-A E BOARD COMPLETE**

Do not replace parts on E Board,  
replace the complete circuit board only.

**▲: A-1345-330-A D BOARD, COMPLETE**

- 1-533-127-00 FUSE CLIP
- ▲: 1-533-146-00 HOLDER, FUSE
- ▲: 1-555-285-00 CONNECTOR SOCKET ASSY 2P
- ▲: 1-555-287-00 HOUSING, CONNECTOR SOCKET 1P
- ▲: 1-555-301-00 CONNECTOR RECEPTACLE ASSY 6P

- 1-556-146-11 CONNECTOR ASSY, MINIATURE 3P
- ▲: 4-342-076-00 HEAT SINK, V.OUT

CAPACITOR

C501	1-123-356-00	ELECT	10MF	20%	25V
C502	1-123-328-00	ELECT	4.7MF	20%	25V
C503	1-108-389-00	MYLAR	0.1MF	10%	100V
C504	1-108-382-00	MYLAR	0.027MF	10%	100V
C505	1-108-381-00	MYLAR	0.022MF	10%	100V
C506	1-123-330-00	ELECT	22MF	20%	16V
C507	1-123-381-00	ELECT	2.2MF	20%	50V
C508	1-123-369-00	ELECT	4.7MF	20%	50V
C509	1-123-328-00	ELECT	4.7MF	20%	25V
C510	1-123-380-00	ELECT	1MF	20%	50V
C511	1-108-373-00	MYLAR	0.0047MF	10%	100V
C512	1-108-373-00	MYLAR	0.0047MF	10%	100V
C513	1-108-371-00	MYLAR	0.0033MF	10%	100V
C514	1-102-989-00	CERAMIC	68PF	5%	500V
C515	1-123-361-00	ELECT	220MF	20%	50V

NOTE:

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

Ref.No	Part No	Description	Remark
C516	1-129-764-61	FILM 0.039MF	10% 200V
C517	1-123-356-00	ELECT 10MF	20% 50V
C518	1-121-707-00	ELECT 3.3MF	20% 160V
C519	1-108-381-00	MYLAR 0.022MF	10% 100V
C520	1-108-390-00	MYLAR 0.12MF	10% 100V
C521	1-108-433-00	MYLAR 0.1MF	10% 200V
C522	1-123-330-00	ELECT 22MF	20% 16V
C523	1-123-363-00	ELECT 470MF	20% 50V
C524	1-102-973-00	CERAMIC 100PF	5% 50V
C525	1-123-369-00	ELECT 4.7MF	20% 50V
C526	1-123-330-00	ELECT 22MF	20% 25V
C527	1-108-824-00	MYLAR 0.47MF	5% 50V
C528	1-108-595-00	MYLAR 0.047MF	5% 50V
C529	1-102-316-00	CERAMIC 15PF	5% 500V
C530	1-108-824-00	MYLAR 0.47MF	5% 50V

C531	1-108-595-00	MYLAR 0.047MF	5% 50V
C532	1-102-973-00	CERAMIC 100PF	5% 50V
C533	1-108-820-00	MYLAR 0.22MF	5% 50V
C534	1-108-597-00	MYLAR 0.056MF	5% 50V
C535	1-102-973-00	CERAMIC 100PF	5% 50V

C536	1-108-820-00	MYLAR 0.22MF	5% 50V
C537	1-108-597-00	MYLAR 0.056MF	5% 50V
C538	1-102-973-00	CERAMIC 100PF	5% 50V
C539	1-123-381-00	ELECT 2.2MF	20% 50V
C540	1-102-973-00	CERAMIC 100PF	5% 50V

C541	1-123-380-00	ELECT 1MF	20% 50V
C542	1-123-356-00	ELECT 10MF	20% 50V
C543	1-123-356-00	ELECT 10MF	20% 50V
C544	1-123-360-00	ELECT 100MF	20% 50V
C545	1-123-380-00	ELECT 1MF	20% 50V

C546	1-123-356-00	ELECT 10MF	20% 50V
C547	1-108-379-00	MYLAR 0.015MF	10% 100V
C548	1-108-382-00	MYLAR 0.027MF	10% 100V
C549	1-108-637-00	MYLAR 0.082MF	10% 100V
C550	1-123-328-00	ELECT 4.7MF	20% 25V

C551	1-108-381-00	MYLAR 0.022MF	10% 100V
C552	1-108-389-00	MYLAR 0.1MF	10% 100V
C553	1-108-379-00	MYLAR 0.015MF	10% 100V
C554	1-102-820-00	CERAMIC 330PF	5% 50V
C555	1-101-845-00	CERAMIC 0.001MF	50V

C556	1-101-001-00	CERAMIC 0.001	50V
C558	1-108-433-00	MYLAR 0.1MF	10% 200V
C601	▲: 1-108-745-00	MYLAR 0.22MF	125V
C602	▲: 1-102-189-00	CERAMIC 0.0047MF	125V
C603	▲: 1-108-745-00	MYLAR 0.22MF	20% 125V

C1501	1-102-125-00	CERAMIC 0.0047MF	10% 50V
C1502	1-123-379-00	ELECT 0.47MF	20% 50V
C1503	1-108-369-00	MYLAR 0.0022MF	10% 100V
C1504	1-108-378-00	MYLAR 0.012MF	10% 100V
C1505	1-106-196-00	MYLAR 0.01MF	5% 100V

C1506	1-129-701-00	FILM 0.01MF	2% 100V
C1507	1-123-330-00	ELECT 22MF	20% 25V
C1508	1-102-978-00	CERAMIC 220PF	5% 50V

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• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS  
• MF :  $\mu$ F, PF :  $\mu$ F

RESISTORS  
• All resistors are in ohms  
• F : nonflammable

COILS  
• MMH : mH, UH :  $\mu$ H



**D**

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
C1509	1-101-001-00	CERAMIC	0.001MF	50V	C1571	1-101-006-00	CERAMIC
C1510	1-123-380-00	ELECT	1MF	20%	C1572	1-101-006-00	CERAMIC
C1511	1-108-382-00	MYLAR	0.027MF	10%	C1575	1-123-333-00	ELECT
C1512	1-102-157-00	CERAMIC	560PF	10%	<b>CONNECTOR</b>		
C1513	1-101-845-00	CERAMIC	0.001MF	500V	D1	1-506-348-XX	3P PLUG (L)
C1514	1-108-385-00	MYLAR	0.047MF	10%	D2	1-508-765-00	3P PLUG (M)
C1515	1-129-953-00	FILM	0.068MF	20%	D4	1-506-371-00	2P PLUG (L)
C1516	1-102-973-00	CERAMIC	100PF	5%	D5	1-508-765-00	3P PLUG (M)
C1517A	1-130-542-00	FILM	0.014MF	3%	D7	1-506-371-00	2P PLUG (L)
C1518	1-102-002-00	CERAMIC	680PF	10%	D8	1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P
C1519	1-130-543-00	FILM	0.91MF	5%	D9	1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P
C1520	1-130-540-00	FILM	1.5MF	5%	D10	1-508-766-00	4P PLUG (M)
C1521	1-108-381-00	MYLAR	0.022MF	10%	D11	1-508-784-00	1P PLUG
C1522	1-121-806-00	ELECT	10MF	20%	D12	1-508-784-00	1P PLUG
C1523	1-123-333-00	ELECT	100MF	20%	D13	1-508-784-00	1P PLUG (M)
C1524	1-123-333-00	ELECT	100MF	20%	D14	1-508-765-00	3P PLUG (M)
C1525	1-106-224-00	MYLAR	0.15MF	10%	D15	1-508-765-00	3P PLUG (M)
C1526	1-123-361-00	ELECT	220MF	20%	D16	1-508-766-00	4P PLUG (M)
C1527	1-121-757-00	ELECT	33MF	10%	D17	1-508-765-00	3P PLUG (M)
C1528	1-108-381-00	MYLAR	0.022MF	10%	D18	1-508-784-00	1P PLUG (L)
C1529	1-123-379-00	ELECT	0.47MF	20%	D19	1-506-348-XX	3P PLUG (M)
C1530	1-108-377-00	MYLAR	0.01MF	10%	D20	1-508-765-00	3P PLUG (L)
C1531	1-123-330-00	ELECT	22MF	20%	D24	1-506-348-XX	3P PLUG (M)
C1532	1-108-371-00	MYLAR	0.0033MF	10%	D25	1-508-765-00	3P PLUG (M)
C1533	1-102-030-00	CERAMIC	330PF	10%	D26	1-506-348-XX	3P PLUG (L)
C1534	1-108-389-00	MYLAR	0.1MF	10%	D27	1-508-765-00	3P PLUG (M)
C1535	1-123-333-00	ELECT	100MF	20%	D28	1-508-784-00	1P PLUG
C1536A	1-130-709-00	FILM	0.008MF	3%	D29	1-508-765-00	3P PLUG (M)
C1537A	1-129-747-00	FILM	0.047MF	10%	D30	1-508-784-00	1P PLUG
C1538	1-129-751-00	FILM	0.1MF	20%	<b>DIODE</b>		
C1539	1-123-356-00	ELECT	10MF	20%	D501	=>8-719-911-19	DIODE 1SS119
C1540	1-123-334-00	ELECT	220MF	20%	D502	=>8-719-911-19	DIODE 1SS119
C1541	1-123-334-00	ELECT	220MF	20%	D503	=>8-719-900-15	DIODE V09C
C1542	1-123-382-00	ELECT	3.3MF	20%	D504	=>8-719-911-19	DIODE 1SS119
C1543	1-123-379-00	ELECT	0.47MF	20%	D505	=>8-719-300-76	DIODE RH1A
C1544	1-123-356-00	ELECT	10MF	20%	D506	8-719-300-38	DIODE GU3A
C1545	1-123-359-00	ELECT	47MF	20%	D507	=>8-719-300-76	DIODE RH1A
C1546	1-101-001-00	CERAMIC	0.001MF	50V	D508	=>8-719-900-15	DIODE V09C
C1547	1-108-431-00	MYLAR	0.068MF	10%	D510	=>8-719-911-19	DIODE 1SS119
C1548	1-123-328-00	ELECT	4.7MF	20%	D511	=>8-719-911-19	DIODE 1SS119
C1552	1-108-421-00	MYLAR	0.01MF	10%	D512	=>8-719-911-19	DIODE 1SS119
C1553	1-108-421-00	MYLAR	0.01MF	10%	D513	=>8-719-900-93	DIODE V09C
C1554A	1-102-327-00	CERAMIC	330PF	15%	D1501	=>8-719-911-19	DIODE 1SS119
C1555	1-102-327-00	CERAMIC	330PF	15%	D1502	=>8-719-911-19	DIODE 1SS119
C1557	1-102-978-00	CERAMIC	220PF	5%	D1503	=>8-719-900-93	DIODE V09C
C1558	1-123-332-00	ELECT	47MF	20%	D1504	=>8-719-305-15	DIODE GH3F
C1564	1-123-380-00	ELECT	1MF	20%	D1505	8-719-928-08	DIODE ERD28-28S
C1565	1-108-372-00	MYLAR	0.0039MF	10%	D1506	=>8-719-300-76	DIODE RH1A
C1567A	1-101-004-00	CERAMIC	0.01	50V	D1507A	8-719-320-01	DIODE RH-1
C1567B	1-123-340-00	ELECT	4.7MF	20%	D1508	8-719-901-19	DIODE V11N
C1568	1-123-330-00	ELECT	22MF	20%	D1509	=>8-719-300-76	DIODE RH1A
C1569	1-101-006-00	CERAMIC	0.047MF	50V			
C1570	1-123-332-00	ELECT	47MF	20%			

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**CAPACITORS**  
 \* MF :  $\mu$ F, PF :  $\mu$ uF

**RESISTORS**  
 \* All resistors are in ohms  
 \* F : nonflammable

**COILS**  
 \* MMH : mH, UH :  $\mu$ H



D

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
D1510	>8-719-911-19	DIODE 1SS119		<u>TRANSISTOR</u>			
D1511	>8-719-931-15	DIODE EQ801-15		Q501	>8-729-663-47	TRANSISTOR 2SC1364	
D1512	>8-719-300-76	DIODE RH1A		Q502	>8-729-195-92	TRANSISTOR 2SC2959	
D1513	>8-719-900-93	DIODE V09C		Q503	>8-729-169-02	TRANSISTOR 2SC2690A	
D1514	8-719-926-16	DIODE ERC26-15SA		Q504	>8-729-122-02	TRANSISTOR 2SA1220A	
D1515	>8-719-300-76	DIODE RH1A		Q505	>8-729-201-52	TRANSISTOR 2SA1015	
D1516	>8-719-911-19	DIODE 1SS119		Q506	8-729-177-43	TRANSISTOR 2SD774	
D1517	>8-719-300-76	DIODE RH1A		Q507	>8-729-663-47	TRANSISTOR 2SC1364	
D1518	>8-719-300-76	DIODE RH1A		Q508	>8-729-663-47	TRANSISTOR 2SC1364	
D1519	>8-719-931-13	DIODE EQ801-13		Q509	>8-729-663-47	TRANSISTOR 2SC1364	
D1520	>8-719-911-19	DIODE 1SS119		Q510	>8-729-663-47	TRANSISTOR 2SC1364	
D1521	>8-719-911-19	DIODE 1SS119		Q511	>8-729-663-47	TRANSISTOR 2SC1364	
D1522	>8-719-911-19	DIODE 1SS119		Q512	>8-729-663-47	TRANSISTOR 2SC1364	
D1523	>8-719-300-76	DIODE RH1A		Q513	>8-729-663-47	TRANSISTOR 2SC1364	
D1524	8-719-156-23	DIODE RD5.6E-Z7S		Q514	>8-729-663-47	TRANSISTOR 2SC1364	
D1526	>8-719-911-19	DIODE 1SS119		Q515	>8-729-663-47	TRANSISTOR 2SC1364	
D1527	>8-719-911-19	DIODE 1SS119		Q516	>8-729-201-52	TRANSISTOR 2SA1015	
D1528	>8-719-903-09	DIODE V30N		Q517	>8-729-195-82	TRANSISTOR 2SC2958	
D1529	>8-719-101-60	DIODE RD6.2E-L1		Q518	>8-729-663-47	TRANSISTOR 2SC1364	
D1530	8-719-815-55	DIODE 1S1555		Q1501	8-729-203-82	TRANSISTOR 2SC2388	
D1531	8-719-200-02	DIODE 10E2		Q1502	8-729-177-43	TRANSISTOR 2SD774	
D1532	8-719-190-00	DIODE RD24E-BZ7		Q1503	>8-729-103-43	TRANSISTOR 2SB734	
<u>FUSE</u>				Q1504	>8-729-103-43	TRANSISTOR 2SB734	
F601	>8-532-627-00	FUSE, GLASS TUBE 7A		Q1505	>8-729-663-47	TRANSISTOR 2SC1364	
F602	>8-532-555-00	FUSE, GLASS TUBE 1.6A		Q1506	8-765-222-20	TRANSISTOR 2SC1963	
<u>IC</u>				Q1507	>8-729-117-43	TRANSISTOR 2SD774	
IC501	8-751-570-00	IC CX-157		Q1508	>8-729-663-47	TRANSISTOR 2SC1364	
IC1501	8-751-580-00	IC CX-158		Q1509	>8-729-201-52	TRANSISTOR 2SA1015	
<u>COIL</u>				Q1510	>8-729-201-52	TRANSISTOR 2SA1015	
L501	1-407-364-00	COIL, SPOOK CHOKE		Q1511	>8-729-201-52	TRANSISTOR 2SA1015	
L502	1-407-209-XX	MICRO INDUCTOR 18MMH		Q1512	>8-729-663-47	TRANSISTOR 2SC1364	
L503	1-407-209-XX	MICRO INDUCTOR 18MMH		Q1514	>8-729-663-47	TRANSISTOR 2SC1364	
L504	1-407-206-XX	MICRO INDUCTOR 10MMH		Q1515	8-729-177-43	TRANSISTOR 2SD774-L	
L505	1-407-211-XX	MICRO INDUCTOR 27MMH		Q1516	>8-729-663-47	TRANSISTOR 2SC1364	
L506	1-407-207-XX	MICRO INDUCTOR 12MMH		Q1517	>8-729-309-06	TRANSISTOR 2SC1890A	
L507	1-459-060-00	COIL, DYNAMIC CONVERSION CHOKE		Q1518	8-729-178-54	TRANSISTOR 2SC2785	
L508	1-435-055-31	COIL, PHASE ADJUST		Q1519	8-729-117-54	TRANSISTOR 2SA1175	
L509	1-443-012-00	TRANSFORMER, DYNAMIC CONVERSION CHOKE COIL		Q1520	8-729-117-54	TRANSISTOR 2SA1175	
L601	1-407-720-00	CHOKE COIL		<u>RESISTOR</u>			
L1501	1-421-390-00	COIL, FERRITE (PMC)		R501	1-246-472-00	CARBON 910 5% 1/4W	
L1502	1-459-308-00	COIL, HORIZONTAL LINEARITY		R502	1-246-531-00	CARBON 270K 5% 1/4W	
L1503	1-459-104-00	COIL, DUST CORE		R503	1-246-512-00	CARBON 43K 5% 1/4W	
L1504	1-459-123-00	COIL, DUST CORE(PAC)		R504	1-246-487-00	CARBON 3.9K 5% 1/4W	
L1505	1-407-365-00	COIL, CHOKE		R506	1-246-541-00	CARBON 680K 5% 1/4W	
L1506	1-407-365-00	COIL, CHOKE		R507	1-246-510-00	CARBON 36K 5% 1/4W	
				R508	1-246-483-00	CARBON 2.7K 5% 1/4W	
				R509	1-246-473-00	CARBON 1K 5% 1/4W	
				R510	1-246-507-00	CARBON 27K 5% 1/4W	
				R511	1-246-497-00	CARBON 10K 5% 1/4W	
				R512	1-246-497-00	CARBON 10K 5% 1/4W	

NOTE:

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

- >: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.
- Items marked "A" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- CAPACITORS: MF :  $\mu$ F, PF :  $\mu$ F
- RESISTORS: All resistors are in ohms
- F : nonflammable
- COILS: MMH : mH, UH :  $\mu$ H



**D**

Ref.No	Part No	Description	Quantity	Material	Remark
R513	1-246-485-00	CARBON	3.3K 5%	1/4W	
R514	1-246-469-00	CARBON	680 5%	1/4W	
R515	1-246-465-00	CARBON	470 5%	1/4W	
R516	1-246-461-00	CARBON	330 5%	1/4W	
R517	1-246-494-00	CARBON	7.5K 5%	1/4W	
R518	1-246-499-00	CARBON	12K 5%	1/4W	
R519	1-246-501-00	CARBON	15K 5%	1/4W	
R520	1-246-490-00	CARBON	5.1K 5%	1/4W	
R521	1-246-491-00	CARBON	5.6K 5%	1/4W	
R522	1-246-481-00	CARBON	2.2K 5%	1/4W	
R523	1-246-477-00	CARBON	1.5K 5%	1/4W	
R524	1-246-449-00	CARBON	100 5%	1/4W	
R525	1-213-143-00	METAL	1K 5%	1W F	
R526	1-246-985-00	CARBON	33 5%	1/8W F	
R527	1-246-982-00	CARBON	10 5%	1/8W F	
R528	1-212-361-00	METAL	1.2 5%	1W F	
R529	1-212-361-00	METAL	1.2 5%	1W F	
R530	1-213-140-00	METAL	560 5%	1W F	
R531	1-213-135-00	METAL	220 5%	1W F	
R532	1-246-507-00	CARBON	27K 5%	1/4W	
R533	1-213-142-00	METAL	820 5%	1W F	
R534	1-246-495-00	CARBON	8.2K 5%	1/4W	
R535	1-246-497-00	CARBON	10K 5%	1/4W	
R536	1-246-483-00	CARBON	2.7K 5%	1/4W	
R537	1-246-477-00	CARBON	1.5K 5%	1/4W	
R538	1-212-360-00	METAL	1 5%	1W F	
R539	1-206-661-00	METAL	750 5%	2W F	
R540	1-246-489-00	CARBON	4.7K 5%	1/4W	
R541	1-246-487-00	CARBON	3.9K 5%	1/4W	
R542	1-246-489-00	CARBON	4.7K 5%	1/4W	
R543	1-246-513-00	CARBON	47K 5%	1/4W	
R545	1-246-497-00	CARBON	10K 5%	1/4W	
R546	1-246-525-00	CARBON	150K 5%	1/4W	
R547	1-246-497-00	CARBON	10K 5%	1/4W	
R548	1-246-471-00	CARBON	820 5%	1/4W	
R549	1-246-473-00	CARBON	1K 5%	1/4W	
R550	1-246-498-00	CARBON	11K 5%	1/4W	
R551	1-246-495-00	CARBON	8.2K 5%	1/4W	
R552	1-246-503-00	CARBON	18K 5%	1/4W	
R553	1-246-449-00	CARBON	100 5%	1/4W	
R554	1-246-489-00	CARBON	4.7K 5%	1/4W	
R555	1-246-503-00	CARBON	18K 5%	1/4W	
R556	1-246-503-00	CARBON	18K 5%	1/4W	
R557	1-246-449-00	CARBON	100 5%	1/4W	
R558	1-246-482-00	CARBON	2.4K 5%	1/4W	
R559	1-246-506-00	CARBON	24K 5%	1/4W	
R560	1-246-506-00	CARBON	24K 5%	1/4W	
R561	1-246-449-00	CARBON	100 5%	1/4W	
R562	1-246-481-00	CARBON	2.2K 5%	1/4W	
R563	1-246-504-00	CARBON	20K 5%	1/4W	
R564	1-246-501-00	CARBON	15K 5%	1/4W	
R565	1-246-506-00	CARBON	24K 5%	1/4W	
R566	1-246-449-00	CARBON	100 5%	1/4W	
R567	1-246-481-00	CARBON	2.2K 5%	1/4W	
R568	1-246-511-00	CARBON	39K 5%	1/4W	
R569	1-246-509-00	CARBON	33K 5%	1/4W	
R570	1-246-473-00	CARBON	1K 5%	1/4W	
R571	1-246-519-00	CARBON	82K 5%	1/4W	
R572	1-246-497-00	CARBON	10K 5%	1/4W	
R573	1-246-509-00	CARBON	33K 5%	1/4W	
R574	1-246-489-00	CARBON	4.7K 5%	1/4W	
R575	1-246-471-00	CARBON	820 5%	1/4W	
R576	1-246-469-00	CARBON	680 5%	1/4W	
R577	1-246-491-00	CARBON	5.6K 5%	1/4W	
R578	1-246-511-00	CARBON	39K 5%	1/4W	
R579	1-246-511-00	CARBON	39K 5%	1/4W	
R580	1-246-491-00	CARBON	5.6K 5%	1/4W	
R581	1-217-523-00	FUSIBLE	10 5%	1/4W	
R582	1-217-523-00	FUSIBLE	39K 5%	1/4W	
R583	1-246-511-00	CARBON	820 5%	1/4W	
R584	1-246-471-00	CARBON	8.2K 5%	1/4W	
R585	1-246-495-00	CARBON	33 5%	1W F	
R587	1-213-125-00	METAL	1.2K 5%	1W F	
R588	1-213-144-00	METAL	100 5%	1W F	
R589	1-213-131-00	METAL	68K 5%	1/4W	
R590	1-246-517-00	CARBON	100K 5%	1/4W	
R592	1-246-521-00	CARBON	1.2 5%	1/8W F	
R593	1-246-979-00	CARBON	1K 5%	1/4W	
R594	1-246-473-00	CARBON	1.2 5%	1/8W F	
R599	1-246-979-00	CARBON	1M 10%	1/2W	
R601	1-202-719-00	COMPOSITION	2.2M 10%	1/2W	
R602	1-202-723-00	COMPOSITION	180K 5%	1/4W	
R603	1-246-527-00	CARBON	10K 5%	2W F	
R1501	1-206-688-00	METAL	1.5K 5%	1/4W	
R1502	1-246-477-00	CARBON	8.2K 5%	1/4W	
R1504	1-246-495-00	CARBON	6.8K 5%	1/4W	
R1505	1-246-493-00	CARBON	2.2K 5%	1/4W	
R1506	1-246-481-00	CARBON	3K 5%	1/4W	
R1507	1-246-484-00	CARBON	1.8K 5%	1/4W	
R1508	1-246-479-00	CARBON	3.6K 5%	1/4W	
R1509	1-246-486-00	CARBON	18K 10%	5W	
R1510	1-205-607-00	CEMENT-COATED	390 5%	1W F	
R1511	1-213-138-00	METAL	1K 5%	1/4W	
R1512	1-246-473-00	CARBON	100 5%	1/4W	
R1513	1-246-449-00	CARBON	1K 5%	1/4W F	
R1514	1-247-012-00	CARBON	4.7K 5%	1/4W	
R1515	1-246-489-00	CARBON	3.3K 5%	2W F	
R1516	1-206-676-00	METAL	3.3K 5%	2W F	
R1517	1-206-676-00	METAL	1.8K 5%	1W F	
R1518	1-213-146-00	METAL	10 5%	2W F	
R1519	1-206-463-00	METAL	2.2 5%	1W F	
R1520	1-213-147-00	METAL	1K 5%	2W F	
R1521	1-206-664-00	METAL	15 5%	1/4W	
R1522	1-246-429-00	CARBON	1.2 5%	2W F	
R1523	1-206-441-00	METAL	39 5%	2W F	
R1524	1-206-477-00	METAL	15 5%	1/4W	

NOTE:

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- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- CAPACITORS: MF:  $\mu$ F, PF:  $\mu$ uF
- RESISTORS: All resistors are in ohms; F: nonflammable
- COILS: MMH: mH, UH:  $\mu$ H



**D H1**

Ref.No	Part No	Description	Quantity	Power	Temp	Remark
R1525	1-246-481-00	CARBON	2.2K	5%	1/4W	
R1526	1-246-465-00	CARBON	470	5%	1/4W	
R1527	1-213-136-00	METAL	270	5%	1W	F
R1528	1-246-489-00	CARBON	4.7K	5%	1/4W	
R1529	1-246-497-00	CARBON	10K	5%	1/4W	
R1530	1-246-473-00	CARBON	1K	5%	1/4W	
R1531	1-246-504-00	CARBON	20K	5%	1/4W	
R1532	1-246-489-00	CARBON	4.7K	5%	1/4W	
R1533	1-246-497-00	CARBON	10K	5%	1/4W	
R1534	1-246-513-00	CARBON	47K	5%	1/4W	
R1535	1-246-489-00	CARBON	4.7K	5%	1/4W	
R1536	1-246-473-00	CARBON	1K	5%	1/4W	
R1537	1-246-482-00	CARBON	2.4K	5%	1/4W	
R1538	1-246-497-00	CARBON	10K	5%	1/4W	
R1539	1-246-508-00	CARBON	30K	5%	1/4W	
R1540	1-246-473-00	CARBON	1K	5%	1/4W	
R1541	1-246-979-00	CARBON	1.2	5%	1/8W	F
R1542	1-246-979-00	CARBON	1.2	5%	1/8W	F
R1543	1-246-979-00	CARBON	1.2	5%	1/8W	F
R1544	1-246-979-00	CARBON	1.2	5%	1/8W	F
R1545	1-213-142-00	METAL	820	5%	1W	F
R1546	1-206-473-00	METAL	27	5%	2W	F
R1548	1-206-449-00	METAL	2.7	5%	2W	F
R1549	1-246-503-00	CARBON	18K	5%	1/4W	
R1550	1-246-505-00	CARBON	22K	5%	1/4W	
R1551	1-246-485-00	CARBON	3.3K	5%	1/4W	
R1552	1-246-457-00	CARBON	220	5%	1/4W	
R1553	1-246-467-00	CARBON	560	5%	1/4W	
R1554	1-246-471-00	CARBON	820	5%	1/4W	
R1555	1-246-461-00	CARBON	330	5%	1/4W	
R1556	1-246-465-00	CARBON	470	5%	1/4W	
R1557	1-246-473-00	CARBON	1K	5%	1/4W	
R1558	1-246-469-00	CARBON	680	5%	1/4W	
R1559	1-246-491-00	CARBON	5.6K	5%	1/4W	
R1560	1-246-472-00	CARBON	910	5%	1/4W	
R1561	1-246-491-00	CARBON	5.6K	5%	1/4W	
R1562	1-246-489-00	CARBON	4.7K	5%	1/4W	
R1563	1-246-449-00	CARBON	100	5%	1/4W	
R1564	1-246-449-00	CARBON	100	5%	1/4W	
R1565	1-213-126-00	METAL	39	5%	1W	F
R1578	1-246-472-00	CARBON	910	5%	1/4W	
R1579	1-212-371-00	METAL	8.2	5%	1W	F
R1580	1-246-484-00	CARBON	3K	5%	1/4W	
R1581	1-246-981-00	CARBON	4.7	5%	1/8W	F
R1582	1-246-981-00	CARBON	4.7	5%	1/8W	F
R1584	1-246-489-00	CARBON	4.7K	5%	1/4W	
R1590	1-246-508-00	CARBON	30K	5%	1/4W	
R1591	1-246-493-00	CARBON	6.8K	5%	1/4W	
R1593	1-246-497-00	CARBON	10K	5%	1/4W	
R1594	1-206-692-00	METAL	15K	5%	2W	F
R1595	1-214-756-00	METAL	13K	1%	1/4W	
R1596	1-246-475-00	CARBON	1.2K	5%	1/4W	
R1598	1-214-777-00	METAL	100K	1%	1/4W	
R1599	1-246-491-00	CARBON	5.6K	5%	1/4W	

Ref.No	Part No	Description	Quantity	Power	Temp	Remark
R1600	1-214-753-00	METAL	10K	1%	1/4W	
R1601	1-214-750-00	METAL	7.5K	1%	1/4W	
R1602	1-246-501-00	CARBON	15K	5%	1/4W	
R1603	1-246-501-00	CARBON	2.2K	5%	1/4W	
R1604	1-246-481-00	CARBON	10K	5%	1/4W	
R1605	1-246-473-00	CARBON	1K	5%	1/4W	
R1606	1-246-488-00	CARBON	4.3K	5%	1/4W	
R1607	1-246-501-00	CARBON	15K	5%	1/4W	
R1608	1-246-473-00	CARBON	1K	5%	1/4W	
R1609	1-214-781-00	METAL	150K	1%	1/4W	
R1610	1-214-779-00	METAL	120K	1%	1/4W	
VARIABLE RESISTOR						
RV501	1-224-990-00	RES, ADJ, CARBON	47K			
RV502	1-224-990-00	RES, ADJ, CARBON	47K			
RV503	1-224-646-XX	RES, ADJ, CARBON	22K			
RV504	1-224-641-XX	RES, ADJ, CARBON	470			
RV505	1-226-100-00	RES, ADJ, CARBON	10K			
RV506	1-226-029-00	RES, ADJ, CARBON	1K			
RV507	1-222-344-00	RES, ADJ, CARBON	5K			
RV1501	1-224-646-XX	RES, ADJ, CARBON	22K			
RV1502	1-226-819-00	RES, ADJ, CARBON	1K			
RV1503	1-226-887-00	RES, ADJ, CARBON	250K			
RV1504	1-224-990-00	RES, ADJ, CARBON	47K			
RV1505	1-224-965-00	RES, ADJ, CARBON	470			
RV1506	1-224-641-XX	RES, ADJ, CARBON	470			
SPARK GAP						
SG1501	1-519-063-XX	DISCHARGING GAP				
TRANSFORMER						
T501	1-421-324-11	V. PCT				
T601	1-421-259-12	TRANSFORMER, LFT				
T602	1-421-496-11	TRANSFORMER FILTER, LINE				
T1501	1-437-089-00	TRANSFORMER, HORIZONTAL DRIVE				
T1502	1-437-089-00	TRANSFORMER, HORIZONTAL DRIVE				
T1503	1-439-252-00	TRANSFORMER, HORIZONTAL OUTPUT				
T1504	1-407-849-00	TRANSFORMER, D.F				
T1505	1-421-388-00	TRANSFORMER, LOT				
THERMISTOR						
TH501	1-800-071-XX	TH DIRECT-HEATING DISK S-300				
TH1501	1-800-194-11	THERMISTOR DIRECT-HEATING DISK				
THP601	1-806-214-11	THERMISTOR, POSITIVE				
*****						
♣:1-604-960-00 H1 BOARD						
*****						
SWITCH						
S1301	1-553-640-21	SWITCH, PUSH				
S1302	1-553-640-21	SWITCH, PUSH				

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- =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.
- Items marked "♣" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- CAPACITORS
  - MF :  $\mu$ F, PF :  $\mu$ PF
- RESISTORS
  - All resistors are in ohms
  - F : nonflammable
- COILS
  - MMH : mH, UH :  $\mu$ H



# H1 H2 K

Ref.No	Part No	Description	Remark
S1303	1-553-640-21	SWITCH, PUSH	
S1304	1-553-640-21	SWITCH, PUSH	
S1305	1-553-640-21	SWITCH, PUSH	
S1306	1-553-640-21	SWITCH, PUSH	
*****			
♣:1-604-961-00 H2 BOARD			
*****			
1-556-016-61	CONNECTOR ASSY (2.5MM)	3P	
1-556-002-41	CONNECTOR ASSY (2.5MM)	6P	
<u>RESISTOR</u>			
R1351	1-246-501-00	CARBON	15K 5% 1/4W
R1352	1-246-499-00	CARBON	12K 5% 1/4W
R1353	1-246-491-00	CARBON	5.6K 5% 1/4W
<u>VARIABLE RESISTOR</u>			
RV1351	1-226-804-00	RES, VAR, CARBON	20K
RV1352	1-226-805-00	RES, VAR, CARBON	20K
RV1353	1-226-805-00	RES, VAR, CARBON	20K
RV1354	1-226-805-00	RES, VAR, CARBON	20K
RV1355	1-226-805-00	RES, VAR, CARBON	20K
*****			
♣:A-1385-014-A K BOARD, COMPLETE			
*****			
♣:1-533-146-00 HOLDER, FUSE			
<u>CAPACITOR</u>			
C1201	1-125-154-00	ELECT (BLOCK)	2200MF 35V
C1202	1-125-154-00	ELECT (BLOCK)	2200MF 35V
C1207	1-102-820-00	CERAMIC	330PF 5% 50V
C1208	1-123-318-00	ELECT	33MF 20% 16V
C1209	1-123-333-00	ELECT	100MF 20% 25V
C1210	1-106-224-00	MYLAR	0.15MF 10% 100V
C1211	1-108-389-00	MYLAR	0.1MF 10% 100V
C1216	1-102-820-00	CERAMIC	330PF 5% 50V
C1217	1-123-318-00	ELECT	33MF 20% 16V
C1218	1-123-333-00	ELECT	100MF 20% 25V
C1219	1-106-224-00	MYLAR	0.15MF 10% 100V
C1220	1-108-389-00	MYLAR	0.1MF 10% 100V
C1221	1-102-107-00	CERAMIC	120PF 10% 50V
C1222	1-102-107-00	CERAMIC	120PF 10% 50V
C1224	1-123-356-00	ELECT	10MF 20% 16V
C1225	1-123-356-00	ELECT	10MF 20% 16V
C1227	1-102-114-00	CERAMIC	470PF 10% 50V
C1229	1-123-356-00	ELECT	10MF 20% 16V
C1230	1-123-356-00	ELECT	10MF 20% 16V
C1231	1-102-114-00	CERAMIC	470PF 10% 50V
C1232	1-123-356-00	ELECT	10MF 20% 16V
C1233	1-123-324-00	ELECT	1000MF 20% 16V
C1234	1-123-318-00	ELECT	33MF 20% 16V

Ref.No	Part No	Description	Remark
C1235	1-123-379-00	ELECT	0.47MF 20% 50V
C1236	1-123-356-00	ELECT	10MF 20% 16V
C1237	1-123-356-00	ELECT	10MF 20% 16V
C1238	1-101-004-00	CERAMIC	0.01MF 50V
C1241	1-123-356-00	ELECT	10MF 20% 16V
C1245	1-102-111-00	CERAMIC	270PF 10% 50V
C1246	1-102-111-00	CERAMIC	270PF 10% 50V
<u>DIODE</u>			
D1205	♣:8-719-100-27	DIODE RD4.7EBZ	
<u>FUSE</u>			
F1201	♣:1-532-557-00	FUSE, GLASS TUBE 3.15A	
F1202	♣:1-532-557-00	FUSE, GLASS TUBE 3.15A	
<u>IC</u>			
IC1201	♣:8-759-111-88	IC $\mu$ PC1188H	
IC1202	8-759-111-88	IC UPC1188H	
IC1203	8-759-826-01	IC LA2600S	
<u>CONNECTOR</u>			
K1	1-508-765-00	3P PLUG (M)	
K2	♣:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P	
K3	♣:1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P	
K4	1-508-765-00	3P PLUG (M)	
K5	1-508-765-00	3P PLUG (M)	
<u>TRANSISTOR</u>			
Q1201	♣:8-729-178-54	TRANSISTOR 2SC2785	
Q1202	♣:8-729-178-54	TRANSISTOR 2SC2785	
<u>RESISTOR</u>			
R1205	1-212-352-00	METAL	0.22 5% 1W F
R1206	1-246-449-00	CARBON	100 5% 1/4W
R1207	1-246-499-00	CARBON	12K 5% 1/4W
R1208	1-246-491-00	CARBON	5.6K 5% 1/4W
R1209	1-212-352-00	METAL	0.22 5% 1W F
R1210	1-246-499-00	CARBON	12K 5% 1/4W
R1211	1-246-491-00	CARBON	5.6K 5% 1/4W
R1212	1-246-449-00	CARBON	100 5% 1/4W
R1213	1-211-403-00	CARBON	5.6 5% 1/8W F
R1217	1-246-496-00	CARBON	9.1K 5% 1/4W
R1218	1-246-503-00	CARBON	18K 5% 1/4W
R1219	1-246-516-00	CARBON	62K 5% 1/4W
R1220	1-246-507-00	CARBON	27K 5% 1/4W
R1221	1-246-496-00	CARBON	9.1K 5% 1/4W
R1222	1-246-503-00	CARBON	18K 5% 1/4W
R1223	1-246-507-00	CARBON	27K 5% 1/4W

**NOTE:**

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- =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.
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- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- CAPACITORS  
MF :  $\mu$ F, PF :  $\mu$ PF
- RESISTORS  
All resistors are in ohms  
F : nonflammable
- COILS  
MMH : mH, UH :  $\mu$ H



**K X1 X2 Y GA**

Ref.No	Part No	Description	Value	Tol	Temp	Remark
R1224	1-246-516-00	CARBON	62K	5%	1/4W	
R1225	1-246-473-00	CARBON	1K	5%	1/4W	
R1226	1-246-473-00	CARBON	1K	5%	1/4W	
R1227	1-246-479-00	CARBON	1.8K	5%	1/4W	
R1228	1-246-479-00	CARBON	1.8K	5%	1/4W	
R1229	1-246-473-00	CARBON	1K	5%	1/4W	
R1230	1-246-449-00	CARBON	100	5%	1/4W	
R1231	1-246-479-00	CARBON	1.8K	5%	1/4W	
R1232	1-246-471-00	CARBON	820	5%	1/4W	
R1233	1-244-871-00	CARBON	820	5%	1/2W	
R1238	1-246-479-00	CARBON	1.8K	5%	1/4W	
R1241	1-211-403-00	CARBON	5.6	5%	1/8W F	

**VARIABLE RESISTOR**

RV1201	1-226-847-00	RES, ADJ, CARBON 1K				
RV1202	1-226-850-00	RES, ADJ, CARBON 4.7K				

◆:1-602-172-00 X1 BOARD \*\*\*\*\*

**CAPACITOR**

C1901A	1-102-327-00	CERAMIC	330PF	15%	1.5KV	
C1906	1-102-820-00	CERAMIC	330PF	5%	50V	

**COIL**

L1901	1-407-365-00	COIL, CHOKE				
L1903	1-407-365-00	COIL, CHOKE				

**RESISTOR**

R1901	1-246-449-00	CARBON	100	5%	1/4W	
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◆:1-602-173-00 X2 BOARD \*\*\*\*\*

**CAPACITOR**

C1902A	1-102-327-00	CERAMIC	330PF	15%	1.5KV	
C1907	1-102-820-00	CERAMIC	330PF	5%	50V	

**COIL**

L1902	1-407-365-00	COIL, CHOKE				
L1904	1-407-365-00	COIL, CHOKE				

**RESISTOR**

R1902	1-246-449-00	CARBON	100	5%	1/4W	
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Ref.No	Part No	Description	Value	Tol	Temp	Remark
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◆:1-604-845-00 Y BOARD \*\*\*\*\*

◆:4-345-836-00 HOLDER (S-2), LED

**DIODE**

D1	8-719-102-34	DIODE SG232D				
D2	8-719-106-34	DIODE SR632D				
D3	8-719-114-34	DIODE SY432D				

**CONNECTOR**

N6	1-555-965-51	CONNECTOR ASSY (2.5MM) 5P				
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◆:1-605-977-21 GA BOARD \*\*\*\*\*

◆:1-555-352-00 CONNECTOR, MINIATURE 1P  
 ◆:1-555-442-00 CONNECTOR ASSY (LARGE) 3P  
 ◆:1-555-867-71 CONNECTOR, MINIATURE 1P  
 ◆:1-556-021-00 CONNECTOR ASSY 3P  
 3-701-353-00 SPACER, MICA

3-703-320-00 BUSHING (A), TRANSISTOR  
 ◆:3-706-518-00 HOLDER, POT  
 ◆:3-706-519-00 HEAT SINK, REG  
 ◆:3-706-520-00 BRACKET, G PC BOARD  
 ◆:3-706-521-00 CASE, SHIELD, G BLOCK

◆:4-307-456-00 HOLDER, (T0-3)  
 4-333-157-00 RETAINER, AC CORD

**CAPACITOR**

C635	1-102-085-00	CERAMIC	0.0047MF		50V	
C651	1-102-824-00	CERAMIC	470PF	5%	50V	
C652	1-108-409-00	MYLAR	0.001MF	10%	200V	
C653	1-108-579-00	MYLAR	0.01MF	5%	50V	
C654	1-108-595-00	MYLAR	0.047MF	5%	50V	
C656	1-130-697-00	FILM	0.025MF	3%	1.4KV	
C657	1-130-073-00	FILM	0.16MF	5%	400V	
C658	1-101-006-00	CERAMIC	0.047MF		50V	
C659	1-123-266-51	ELECT	1.5MF	20%	160V	
C660	1-101-004-00	CERAMIC	0.01MF		50V	

C661	1-123-380-00	ELECT	1MF	20%	50V	
C662	1-101-810-00	CERAMIC	100PF	5%	500V	
C663	1-130-458-00	FILM	0.024MF	3%	400V	
C664	1-129-710-00	FILM	0.0047MF	10%	630V	
C665	1-129-710-00	FILM	0.0047MF	10%	630V	

C666	1-125-213-00	ELECT	560MF		180V	
C667	1-123-336-00	ELECT	470MF	20%	25V	
C668	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C669	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C670	1-123-336-00	ELECT	470MF	20%	25V	

C671	1-123-336-00	ELECT	470MF	20%	25V	
C672	1-108-381-00	MYLAR	0.022MF	10%	100V	

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CAPACITORS  
 • MF :  $\mu$ F, PF :  $\mu$ F

RESISTORS  
 • All resistors are in ohms  
 • F : nonflammable

COILS  
 • MMH : mH, UH :  $\mu$ H



**GA GB X TX K**

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
C673	1-108-421-00	MYLAR 0.01MF 10% 200V		R663	1-246-481-00	CARBON 2.2K 5% 1/4W	
C674	1-108-377-00	MYLAR 0.01MF 10% 100V		R664	1-214-147-00	METAL 4.3K 1% 1/4W F	
C675	1-102-125-00	CERAMIC 0.0047MF 10% 50V		R665	1-212-688-00	METAL 27K 1% 1/2W F	
C676	1-102-125-00	CERAMIC 0.0047MF 10% 50V		R666	1-212-685-00	METAL 20K 1% 1/2W F	

DIODE

D651	8-719-901-02	DIODE S1B01-02	
D652	8-719-901-40	DIODE S1B01-02T5	
D653	8-719-901-02	DIODE S1B01-02	
D654	8-719-113-21	DIODE RD13E-B127	
D655	8-719-815-55	DIODE 1S1555	
D656	8-719-901-98	DIODE V19E	
D657	8-719-901-93	DIODE V19E	
D658	8-719-901-91	DIODE V19B	
D659	8-719-901-91	DIODE V19B	
D660	8-719-901-91	DIODE V19B	

D661	8-719-901-91	DIODE V19B	
D662	8-719-901-91	DIODE V19B	
D663	8-719-901-02	DIODE S1B01-02	
D664	8-719-110-07	DIODE RD10E-B22	
D665	8-719-901-02	DIODE S1B01-02	
D666	8-719-110-60	DIODE RD11EB1	

IC

IC651A	1-235-015-00	MODULE, POWER	
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COIL

L651	1-421-490-00	COIL FERRITE (PCC)	
L657	1-421-329-00	COIL, CHOKE 10UH	
L658	1-421-329-00	COIL, CHOKE 10UH	

TRANSISTOR

Q651	8-729-213-11	TRANSISTOR 2SC2230A	
Q652	8-729-206-91	TRANSISTOR 2SD869	
Q653	8-729-213-11	TRANSISTOR 2SC2230A	
Q654	8-729-201-52	TRANSISTOR 2SA1015	
Q655	8-729-201-52	TRANSISTOR 2SA1015	
Q656	8-729-281-52	TRANSISTOR 2SC1815	
Q657	8-729-281-52	TRANSISTOR 2SC1815	

RESISTOR

R651	1-246-505-00	CARBON 22K 5% 1/4W	
R652	1-246-509-00	CARBON 33K 5% 1/4W	
R653	1-246-470-00	CARBON 750 5% 1/4W	
R654	1-246-459-00	CARBON 270 5% 1/4W	
R655	1-246-481-00	CARBON 2.2K 5% 1/4W	
R656	1-211-930-00	CARBON 33 5% 1/8W	
R657	1-217-619-00	WIREWOUND 0.24 5% 3W F	
R658	1-217-619-00	WIREWOUND 0.24 5% 3W F	
R659	1-206-696-00	METAL 22K 5% 2W F	
R660	1-246-489-00	CARBON 4.7K 5% 1/4W	
R661	1-246-469-00	CARBON 270 5% 1/4W	
R662	1-246-980-00	CARBON 3.3 5% 1/8W F	

NOTE:

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CAPACITORS  
\* MF :  $\mu$ F, PF :  $\mu$ F

RESISTORS  
\* All resistors are in ohms  
\* F : nonflammable

COILS  
\* MMH : mH, UH :  $\mu$ H

R667	▲ 1-205-645-00	WIREWOUND 0.47 5% 1W F	
R668	▲ 1-217-465-00	FUSE 1.0K 5% 1/8W	
R669	1-246-783-00	CARBON 100K 5% 1/4W	
R670	▲ 1-246-521-00	CARBON 11K 5% 1/4W	
R671	1-246-499-00	CARBON 100K 5% 1/4W	
R672	▲ 1-246-521-00	CARBON 1K 5% 1/4W	
R673	1-246-473-00	CARBON 4.7K 5% 1/4W	
R674	1-246-489-00	CARBON 0.47 10% 1/2W F	
R675	1-217-418-00	FUSE 0.47 5% 1W F	
R676	▲ 1-217-465-00	FUSE 100 5% 1/4W	
R677	1-246-449-00	CARBON 100 5% 1/8W	
R678	▲ 1-247-033-00	CARBON 4.7K 5% 1/4W	
R679	1-246-489-00	CARBON	

TRANSFORMER

T651	▲ 1-421-450-00	TRANSFORMER, INSULATING	
T652	1-437-078-00	TRANSFORMER, HORIZONTAL DRIVE	
T653	1-405-760-00	COIL, OSC	

▲: 1-605-978-21 GB BOARD

TRANSFORMER

T654	▲ 1-421-448-00	TRANSFORMER, FERRITE (POT)	
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MISCELLANEOUS

▲ 1-215-066-21	RES ASSY, HIGH-VOLTAGE ;MVR	
▲ 1-228-484-00	RESISTOR ASSY, HIGH-VOLTAGE ;MVR	
▲ 1-413-084-00	POWER BLOCK, X-Y	
▲ 1-452-236-00	CRT NECK ASSY	
▲ 1-551-478-11	CORD, POWER	
▲: 1-551-791-00	CONNECTOR ASSY (L) 2P	
▲: 1-551-925-00	CONNECTOR ASSY (2.5MM) 3P	
▲: 1-555-033-00	CONNECTOR ASSY, MINIATURE 3P	
▲: 1-555-042-00	CONNECTOR ASSY (LARGE) 3P	
▲: 1-555-180-00	CONNECTOR ASSY, MINIATURE 4P	
▲: 1-555-225-00	CONNECTOR ASSY (LARGE) 1P	
▲: 1-555-286-00	CONNECTOR PLUG ASSY 2P	
▲: 1-555-302-00	CONNECTOR PLUG ASSY 6P	
▲: 1-555-328-00	CONNECTOR, PLUG HOUSING 1P	
▲: 1-555-352-00	CONNECTOR, MINIATURE 1P	
▲: 1-555-442-00	CONNECTOR ASSY (LARGE) 3P	
▲: 1-555-614-00	CONNECTOR ASSY (2.5MM) 3P	
▲: 1-555-867-71	CONNECTOR, MINIATURE 1P	
▲: 1-556-021-00	CONNECTOR ASSY 3P	
▲ 1-561-347-00	OUTLET, AC	



Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
L901A	1-426-059-21	COIL, DEGAUSSING DGC					
L902A	1-426-059-21	COIL, DEGAUSSING DGC					
L903A	1-451-156-00	DEFLECTION YOKE V.DY					
L904A	1-451-156-00	DEFLECTION YOKE H.DY					
Q1901A	8-729-372-53	TRANSISTOR 2SD725					
Q1902	8-729-372-53	TRANSISTOR 2SD725-04					
Q1903A	8-726-404-10	THYRISTOR SG-264A					
R1903A	1-217-618-00	RES, WIREWOUND 1.2 (15W)					
S1901A	1-553-262-00	SWITCH, PUSH (POWER SWITCH)					
S1902	1-514-524-00	SLIDE SWITCH					
S1903	1-514-524-00	SLIDE SWITCH					
T1901A	1-447-120-00	TRANSFORMER, POWER;PT					
V901A	8-738-406-05	CRT 6B0DB22A					

ACCESSORIES AND PACKING MATERIALS

Part No	Description	Remark
1-551-086-31	CORD, CONNECTION	
1-551-842-11	CORD, CONNECTION (RK-105A)	
1-561-790-00	CONNECTOR (SOCKET) 34P	
4-491-556-21	INSTRUCTION, CONNECTOR, 34 PIN	
4-491-561-21	SYSTEM CONNECTIONS GUIDE	
4-493-615-21	MANUAL, INSTRUCTION	
X-4354-304-0	PLATE ASSY, BOTTOM	
4-354-322-00	BAND	
4-354-324-00	TABLE, BOTTOM	
4-337-844-00	BAG, PROTECTION	
4-354-321-00	REINFORCEMENT	
4-354-323-00	INDIVIDUAL CARTON	

TJ0V 00		TJ0V 00		TJ0V 00		TJ0V 00	
REF. NO	QTY	REF. NO	QTY	REF. NO	QTY	REF. NO	QTY
00-100-001-1	1	00-100-001-1	1	00-100-001-1	1	00-100-001-1	1
00-100-002-1	1	00-100-002-1	1	00-100-002-1	1	00-100-002-1	1
00-100-003-1	1	00-100-003-1	1	00-100-003-1	1	00-100-003-1	1
00-100-004-1	1	00-100-004-1	1	00-100-004-1	1	00-100-004-1	1
00-100-005-1	1	00-100-005-1	1	00-100-005-1	1	00-100-005-1	1
00-100-006-1	1	00-100-006-1	1	00-100-006-1	1	00-100-006-1	1
00-100-007-1	1	00-100-007-1	1	00-100-007-1	1	00-100-007-1	1
00-100-008-1	1	00-100-008-1	1	00-100-008-1	1	00-100-008-1	1
00-100-009-1	1	00-100-009-1	1	00-100-009-1	1	00-100-009-1	1
00-100-010-1	1	00-100-010-1	1	00-100-010-1	1	00-100-010-1	1

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CAPACITORS  
• MF :  $\mu F$ , PF :  $\mu F$

RESISTORS  
• All resistors are in ohms  
• F : nonflammable

COILS  
• MMH : mH, UH :  $\mu H$

# STANDARD PARTS LIST

## ELECTROLYTIC CAPACITORS

→ Use the high voltage rated one.

CAP. (μF)	RATING						
	6.3 VOLT.	10 VOLT.	16 VOLT.	25 VOLT.	35 VOLT.	50 VOLT.	63 VOLT.
	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.47							
1.0							
2.2							
3.3							
4.7							
10							
22							
33							
47							
100							
220							
330							
470							
1000							
2200							
3300							
4700							
6800							
10000							

CAP. (μF)	100 VOLT.	160 VOLT.	250 VOLT.	350 VOLT.
	PART No.	PART No.	PART No.	PART No.
0.47	1-123-379-00			
1.0	1-123-380-00			
2.2	1-123-381-00			
3.3	1-123-382-00			
4.7	1-123-383-00			
10	1-123-384-00			
22	1-123-385-00			
33	1-123-386-00			
47	1-123-387-00			
100	1-123-388-00			
220	1-123-389-00			
330	1-123-390-00			
470	1-123-391-00			

## CERAMIC CAPACITORS

CAP. (pF)	RATING						
	50 VOLT.	50 VOLT.	50 VOLT.	50 VOLT.	50 VOLT.	50 VOLT.	50 VOLT.
	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.5	1-101-837-00	22	1-102-959-00	150	1-101-361-00	0.001	1-102-074-00
0.75	1-101-886-00	24	1-102-960-00	160	1-101-367-00	0.0012	1-102-118-00
1.0	1-102-934-00	27	1-102-961-00	180	1-102-976-00	0.0015	1-102-119-00
1.5	1-101-576-00	30	1-102-962-00	200	1-102-977-00	0.0018	1-102-120-00
2.0	1-102-935-00	33	1-102-963-00	220	1-102-978-00	0.0022	1-102-121-00
3	1-102-936-00	36	1-102-964-00	240	1-102-979-00	0.0027	1-102-122-00
4	1-102-937-00	39	1-102-965-00	270	1-102-980-00	0.0033	1-102-123-00
5	1-102-942-00	43	1-102-966-00	300	1-102-981-00	0.0039	1-102-124-00
6	1-102-943-00	47	1-101-880-00	330	1-102-820-00	0.0047	1-102-125-00
7	1-102-944-00	51	1-101-882-00	360	1-102-821-00	0.0056	1-102-126-00
8	1-102-945-00	56	1-101-884-00	390	1-102-822-00	0.0068	1-102-127-00
9	1-102-946-00	62	1-101-886-00	430	1-102-823-00	0.0082	1-102-128-00
10	1-102-947-00	68	1-101-888-00	470	1-102-824-00	0.01	1-102-129-00
11	1-102-948-00	75	1-101-890-00	510	1-101-059-00	0.022	1-101-005-00
12	1-102-949-00	82	1-102-971-00	560	1-102-115-00	0.047	1-101-006-00
13	1-102-950-00	91	1-102-972-00	680	1-102-116-00		
15	1-102-951-00	100	1-102-973-00	820	1-102-117-00		
16	1-102-952-00	110	1-102-815-00				
18	1-102-953-00	120	1-102-816-00				
20	1-102-958-00	130	1-101-081-00				

0.001μF = 1,000pF

## MYLAR CAPACITORS

CAP. (μF)	RATING											
	50 VOLT.	100 VOLT.	200 VOLT.	CAP. (μF)	50 VOLT.	100 VOLT.	200 VOLT.	CAP. (μF)	50 VOLT.	100 VOLT.	200 VOLT.	
	PART No.	PART No.	PART No.		PART No.	PART No.	PART No.		PART No.	PART No.	PART No.	PART No.
0.001	1-108-227-00	1-108-365-00	1-108-409-00	0.01	1-108-239-00	1-108-377-00	1-108-421-00	0.1	1-108-251-00	1-108-389-00	1-108-433-00	
0.0012	1-108-351-00	1-108-366-00	1-108-410-00	0.012	1-108-357-00	1-108-378-00	1-108-422-00	0.12	1-108-363-00	1-108-390-00	1-108-434-00	
0.0015	1-108-228-00	1-108-367-00	1-108-411-00	0.015	1-108-240-00	1-108-379-00	1-108-423-00	0.15	1-108-252-00	1-108-391-00	1-108-435-00	
0.0018	1-108-352-00	1-108-368-00	1-108-412-00	0.018	1-108-358-00	1-108-380-00	1-108-424-00	0.18	1-108-364-00	1-108-392-00	1-108-436-00	
0.0022	1-108-230-00	1-108-369-00	1-108-413-00	0.022	1-108-242-00	1-108-381-00	1-108-425-00	0.22	1-108-254-00	1-108-393-00	1-108-437-00	
0.0027	1-108-353-00	1-108-370-00	1-108-414-00	0.027	1-108-359-00	1-108-382-00	1-108-426-00	0.27	1-108-854-00			
0.0033	1-108-232-00	1-108-371-00	1-108-415-00	0.033	1-108-244-00	1-108-383-00	1-108-427-00	0.33	1-108-855-00			
0.0039	1-108-354-00	1-108-372-00	1-108-416-00	0.039	1-108-360-00	1-108-384-00	1-108-428-00	0.39	1-108-856-00			
0.0047	1-108-234-00	1-108-373-00	1-108-417-00	0.047	1-108-246-00	1-108-385-00	1-108-429-00	0.47	1-108-857-00			
0.0056	1-108-355-00	1-108-374-00	1-108-418-00	0.056	1-108-361-00	1-108-386-00	1-108-430-00					
0.0068	1-108-237-00	1-108-375-00	1-108-419-00	0.068	1-108-249-00	1-108-387-00	1-108-431-00					
0.0082	1-108-356-00	1-108-376-00	1-108-420-00	0.082	1-108-362-00	1-108-388-00	1-108-432-00					



# STANDARD PARTS LIST

## ELECTROLYTIC CAPACITORS

CAP. (μF)	RATING → Use the high voltage rated one.						
	6.3 VOLT.	10 VOLT.	16 VOLT.	25 VOLT.	35 VOLT.	50 VOLT.	63 VOLT.
	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.47							
1.0							
2.2							
3.3							
4.7							
10							1-123-369-00
22							1-123-370-00
33							1-123-371-00
47							1-123-372-00
100							1-123-373-00
220							1-123-374-00
330							1-123-375-00
470							1-123-376-00
1000							1-123-377-00
2200							1-123-378-00
3300							
4700							
6800							
10000							

CAP. (μF)	100 VOLT.	160 VOLT.	250 VOLT.	350 VOLT.
	PART No.	PART No.	PART No.	PART No.
0.47	1-123-379-00			
1.0	1-123-380-00	1-123-252-00	1-123-003-00	1-121-168-00
2.2	1-123-381-00	1-123-026-00	1-123-027-00	1-123-028-00
3.3	1-123-382-00	1-121-707-00	1-123-004-00	1-123-006-00
4.7	1-123-383-00	1-121-246-00	1-121-759-00	1-123-007-00
10	1-123-384-00	1-121-999-00	1-123-254-00	1-123-008-00
22	1-123-385-00	1-123-253-00	1-123-005-00	1-123-022-00
33	1-123-386-00	1-121-757-00		
47	1-123-387-00	1-121-919-00		
100	1-123-388-00			
220	1-123-389-00			
330	1-123-390-00			
470	1-123-391-00			

## CERAMIC CAPACITORS

CAP. (pF)	RATING						
	50 VOLT.	CAP. (pF)	50 VOLT.	CAP. (pF)	50 VOLT.	CAP. (μF)	50 VOLT.
	PART No.		PART No.		PART No.		PART No.
0.5	1-101-837-00	22	1-102-959-00	150	1-101-361-00	0.001	1-102-074-00
0.75	1-101-586-00	24	1-102-960-00	160	1-101-367-00	0.0012	1-102-118-00
1.0	1-102-934-00	27	1-102-961-00	180	1-102-976-00	0.0015	1-102-119-00
1.5	1-101-576-00	30	1-102-962-00	200	1-102-977-00	0.0018	1-102-120-00
2.0	1-102-935-00	33	1-102-963-00	220	1-102-978-00	0.0022	1-102-121-00
3	1-102-936-00	36	1-102-964-00	240	1-102-979-00	0.0027	1-102-122-00
4	1-102-937-00	39	1-102-965-00	270	1-102-980-00	0.0033	1-102-123-00
5	1-102-942-00	43	1-102-966-00	300	1-102-981-00	0.0039	1-102-124-00
6	1-102-943-00	47	1-101-880-00	330	1-102-820-00	0.0047	1-102-125-00
7	1-102-944-00	51	1-101-882-00	360	1-102-821-00	0.0056	1-102-126-00
8	1-102-945-00	56	1-101-884-00	390	1-102-822-00	0.0068	1-102-127-00
9	1-102-946-00	62	1-101-886-00	430	1-102-823-00	0.0082	1-102-128-00
10	1-102-947-00	68	1-101-888-00	470	1-102-824-00	0.01	1-102-129-00
11	1-102-948-00	75	1-101-890-00	510	1-101-059-00	0.022	1-101-005-00
12	1-102-949-00	82	1-102-971-00	560	1-102-115-00	0.047	1-101-006-00
13	1-102-950-00	91	1-102-972-00	680	1-102-116-00		
15	1-102-951-00	100	1-102-973-00	820	1-102-117-00		
16	1-102-952-00	110	1-102-815-00				
18	1-102-953-00	120	1-102-816-00				
20	1-102-958-00	130	1-101-081-00				

0.001μF = 1,000pF

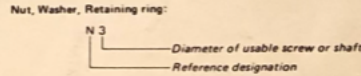
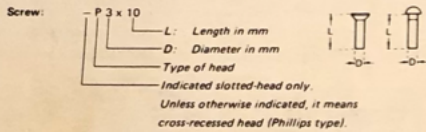
## MYLAR CAPACITORS

CAP. (μF)	RATING										
	50 VOLT.	100 VOLT.	200 VOLT.	CAP. (μF)	50 VOLT.	100 VOLT.	200 VOLT.	CAP. (μF)	50 VOLT.	100 VOLT.	200 VOLT.
	PART No.	PART No.	PART No.		PART No.	PART No.	PART No.		PART No.	PART No.	PART No.
0.001	1-108-227-00	1-108-365-00	1-108-409-00	0.01	1-108-239-00	1-108-377-00	1-108-421-00	0.1	1-108-251-00	1-108-389-00	1-108-433-00
0.0012	1-108-351-00	1-108-366-00	1-108-410-00	0.012	1-108-357-00	1-108-378-00	1-108-422-00	0.12	1-108-363-00	1-108-390-00	1-108-434-00
0.0015	1-108-228-00	1-108-367-00	1-108-411-00	0.015	1-108-240-00	1-108-379-00	1-108-423-00	0.15	1-108-252-00	1-108-391-00	1-108-435-00
0.0018	1-108-352-00	1-108-368-00	1-108-412-00	0.018	1-108-358-00	1-108-380-00	1-108-424-00	0.18	1-108-364-00	1-108-392-00	1-108-436-00
0.0022	1-108-230-00	1-108-369-00	1-108-413-00	0.022	1-108-242-00	1-108-381-00	1-108-425-00	0.22	1-108-254-00	1-108-393-00	1-108-437-00
0.0027	1-108-353-00	1-108-370-00	1-108-414-00	0.027	1-108-359-00	1-108-382-00	1-108-426-00	0.27	1-108-854-00		
0.0033	1-108-232-00	1-108-371-00	1-108-415-00	0.033	1-108-244-00	1-108-383-00	1-108-427-00	0.33	1-108-855-00		
0.0039	1-108-354-00	1-108-372-00	1-108-416-00	0.039	1-108-360-00	1-108-384-00	1-108-428-00	0.39	1-108-856-00		
0.0047	1-108-234-00	1-108-373-00	1-108-417-00	0.047	1-108-246-00	1-108-385-00	1-108-429-00	0.47	1-108-857-00		
0.0056	1-108-355-00	1-108-374-00	1-108-418-00	0.056	1-108-361-00	1-108-386-00	1-108-430-00				
0.0068	1-108-237-00	1-108-375-00	1-108-419-00	0.068	1-108-249-00	1-108-387-00	1-108-431-00				
0.0082	1-108-356-00	1-108-376-00	1-108-420-00	0.082	1-108-362-00	1-108-388-00	1-108-432-00				

1/4 WATT CARBON RESISTORS

Q	Part No.	Q	Part No.	Q	Part No.	Q	Part No.	Q	Part No.	Q	Part No.	Q	Part No.
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00	1.0M	1-246-545-00
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1.1k	1-246-474-00	11k	1-246-498-00	110k	1-246-522-00	1.1M	1-210-814-00
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k	1-246-475-00	12k	1-246-499-00	120k	1-246-523-00	1.2M	1-210-815-00
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-476-00	13k	1-246-500-00	130k	1-246-524-00	1.3M	1-210-816-00
1.5	1-246-405-00	15	1-246-429-00	150	1-246-453-00	1.5k	1-246-477-00	15k	1-246-501-00	150k	1-246-525-00	1.5M	1-210-817-00
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-478-00	16k	1-246-502-00	160k	1-246-526-00	1.6M	1-210-818-00
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00	1.8k	1-246-479-00	18k	1-246-503-00	180k	1-246-527-00	1.8M	1-210-819-00
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1-246-480-00	20k	1-246-504-00	200k	1-246-528-00	2.0M	1-210-820-00
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-481-00	22k	1-246-505-00	220k	1-246-529-00	2.2M	1-210-821-00
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-482-00	24k	1-246-506-00	240k	1-246-530-00	2.4M	1-244-754-00
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	2.7k	1-246-483-00	27k	1-246-507-00	270k	1-246-531-00	2.7M	1-244-755-00
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	3.0k	1-246-484-00	30k	1-246-508-00	300k	1-246-532-00	3.0M	1-244-756-00
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	3.3k	1-246-485-00	33k	1-246-509-00	330k	1-246-533-00	3.3M	1-244-757-00
3.6	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-486-00	36k	1-246-510-00	360k	1-246-534-00	3.6M	1-244-758-00
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-246-487-00	39k	1-246-511-00	390k	1-246-535-00	3.9M	1-244-759-00
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3k	1-246-488-00	43k	1-246-512-00	430k	1-246-536-00	4.3M	1-244-760-00
4.7	1-246-417-00	47	1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1-246-537-00	4.7M	1-244-761-00
5.1	1-246-418-00	51	1-246-442-00	510	1-246-466-00	5.1k	1-246-490-00	51k	1-246-514-00	510k	1-246-538-00	5.1M	1-244-762-00
5.6	1-246-419-00	56	1-246-443-00	560	1-246-467-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1-246-539-00		
6.2	1-246-420-00	62	1-246-444-00	620	1-246-468-00	6.2k	1-246-492-00	62k	1-246-516-00	620k	1-246-540-00		
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00	6.8k	1-246-493-00	68k	1-246-517-00	680k	1-246-541-00		
7.5	1-246-422-00	75	1-246-446-00	750	1-246-470-00	7.5k	1-246-494-00	75k	1-246-518-00	750k	1-246-542-00		
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	8.2k	1-246-495-00	82k	1-246-519-00	820k	1-246-543-00		
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1-246-520-00	910k	1-246-544-00		

HARDWARE NOMENCLATURE



Reference Designation	Shape	Description	Remarks
<b>SCREWS</b>			
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		brazer-head screw	

Reference Designation	Shape	Description	Remarks
<b>SELF-TAPPING SCREWS</b>			
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self-tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
<b>SET SCREWS</b>			
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
<b>NUT</b>			
N		nut	
<b>WASHERS</b>			
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
<b>RETAINING RINGS</b>			
E		retaining ring	
G		grip-type retaining ring	

Sony Corporation  
TV and Consumer Video Group

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



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










## KX-2501

US Model  
Chassis No. SCC-383A-A

### SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

**Note:** The components identified by shading and mark  are critical for safety. Replace only with part number specified.

- All capacitors are in  $\mu\text{F}$  unless otherwise noted. pF:  $\mu\text{F}$  50 WV or less are not indicated except for electrolytics.
- All resistors are in ohms,  $\frac{1}{4}$  W unless otherwise noted. k: 1000  $\Omega$ , M: 1000 k $\Omega$
-  : nonflammable resistor.
-  : fusible resistor
-  : internal component.
-  : panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- The components identified by  in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by  , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by  and repeat the adjustment until the specified value is achieved.
- Refer to the service manual for the adjustment of components identified by  .
- All voltages are in V.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 10 M ohm-per-volt DMT.
-  : adjustment for repair.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
-  B+ bus
-  B- bus
- Do not replace parts on E board, replace the complete circuit board only.

## SCHEMATIC DIAGRAM

1

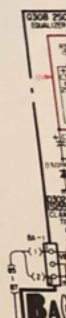
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4

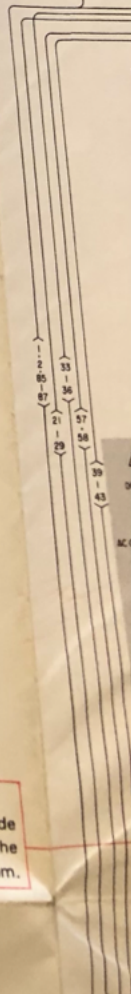
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6






### CAUTION:


This set is equipped with a polarized AC power cord plug (one blade of the plug is wider than the other), be sure to use it having the specified part number and connect it as shown in this diagram.





... diagram have been carefully factory-set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

- When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by  and repeat the adjustment until the specified value is achieved.
- Refer to the service manual for the adjustment of components identified by .

- All voltages are in V.
- Voltages are dc with respect to ground unless otherwise noted.

- Readings are taken with a 10 M ohm-per-volt DMT.
-  adjustment for repair.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.

-  B+ bus
-  B- bus
- Do not replace parts on E board, replace the complete circuit board only.

5

6

7

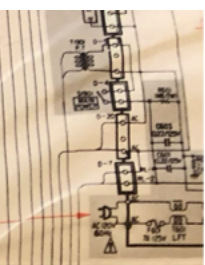
8

9

10

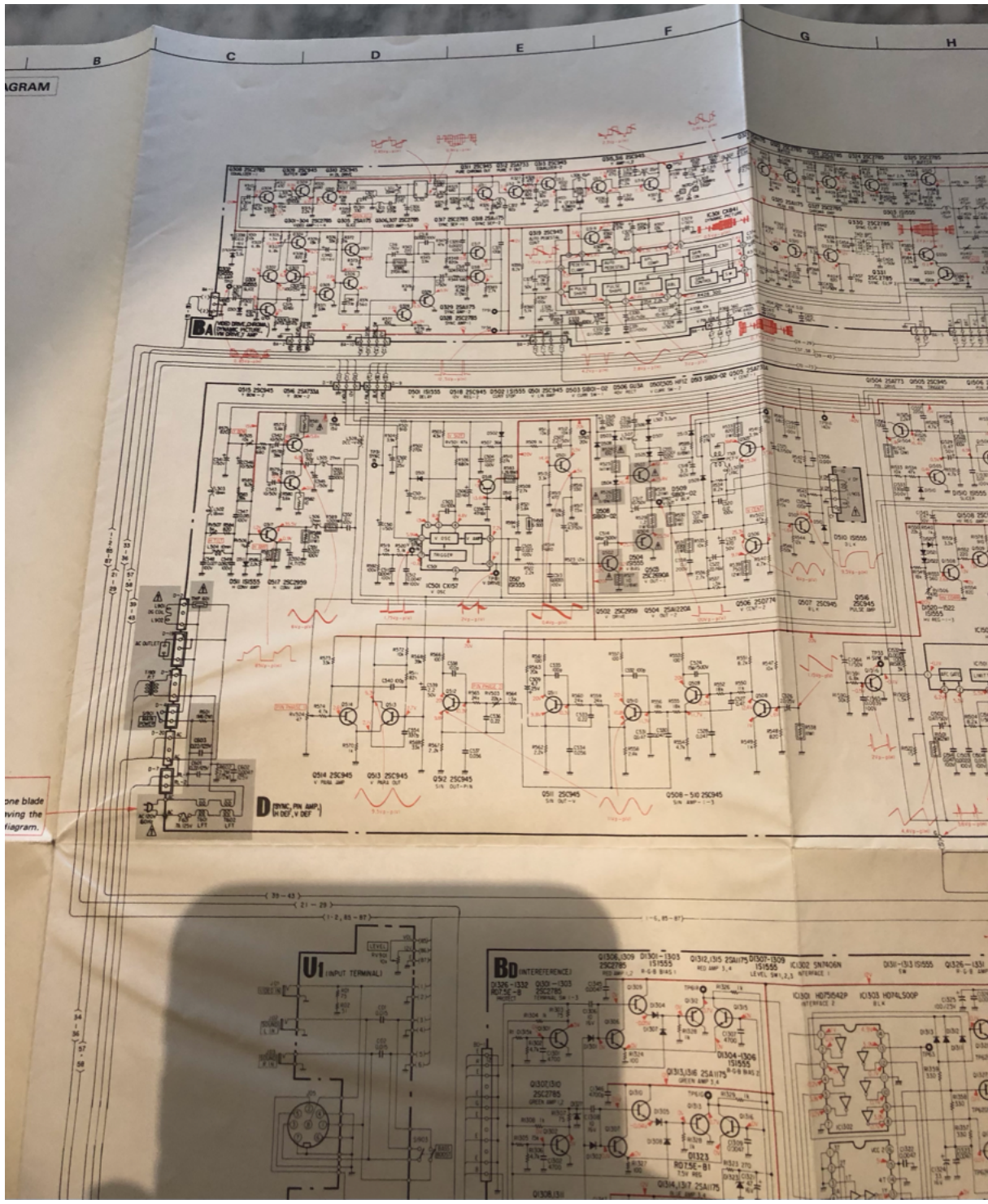
11

**CAUTION:**  
This set is equipped with a polarized AC power cord plug (one blade of the plug is wider than the other), be sure to use it having the specified part number and connect it as shown in this diagram.



34  
35  
36  
37  
38





GRAM

one blade  
living the  
diagram.

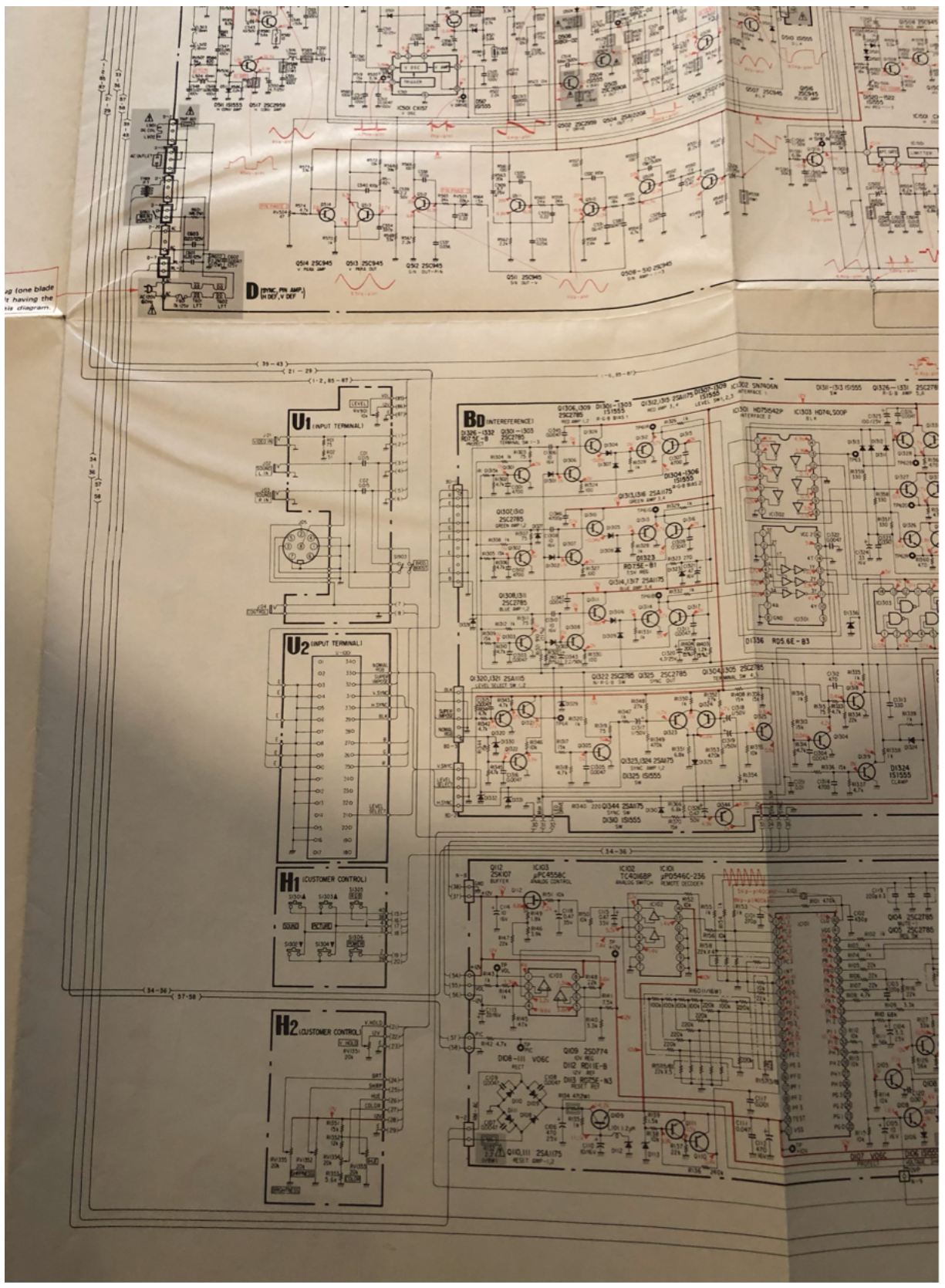
D (DRIVE, PH. AMP.)  
IN DEF. V DEF

UI INPUT TERMINAL

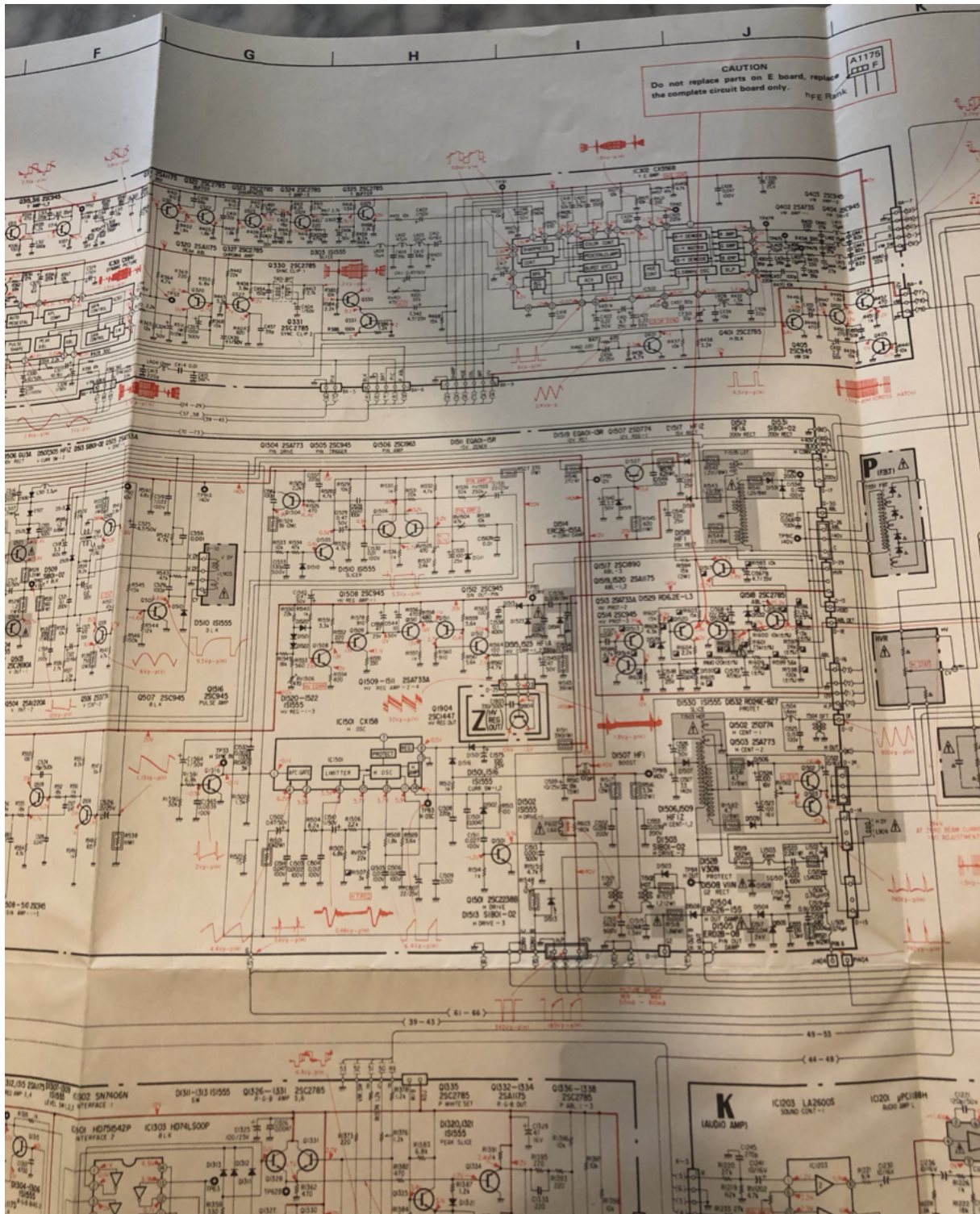
BO INTERFERENCE

54  
57  
58





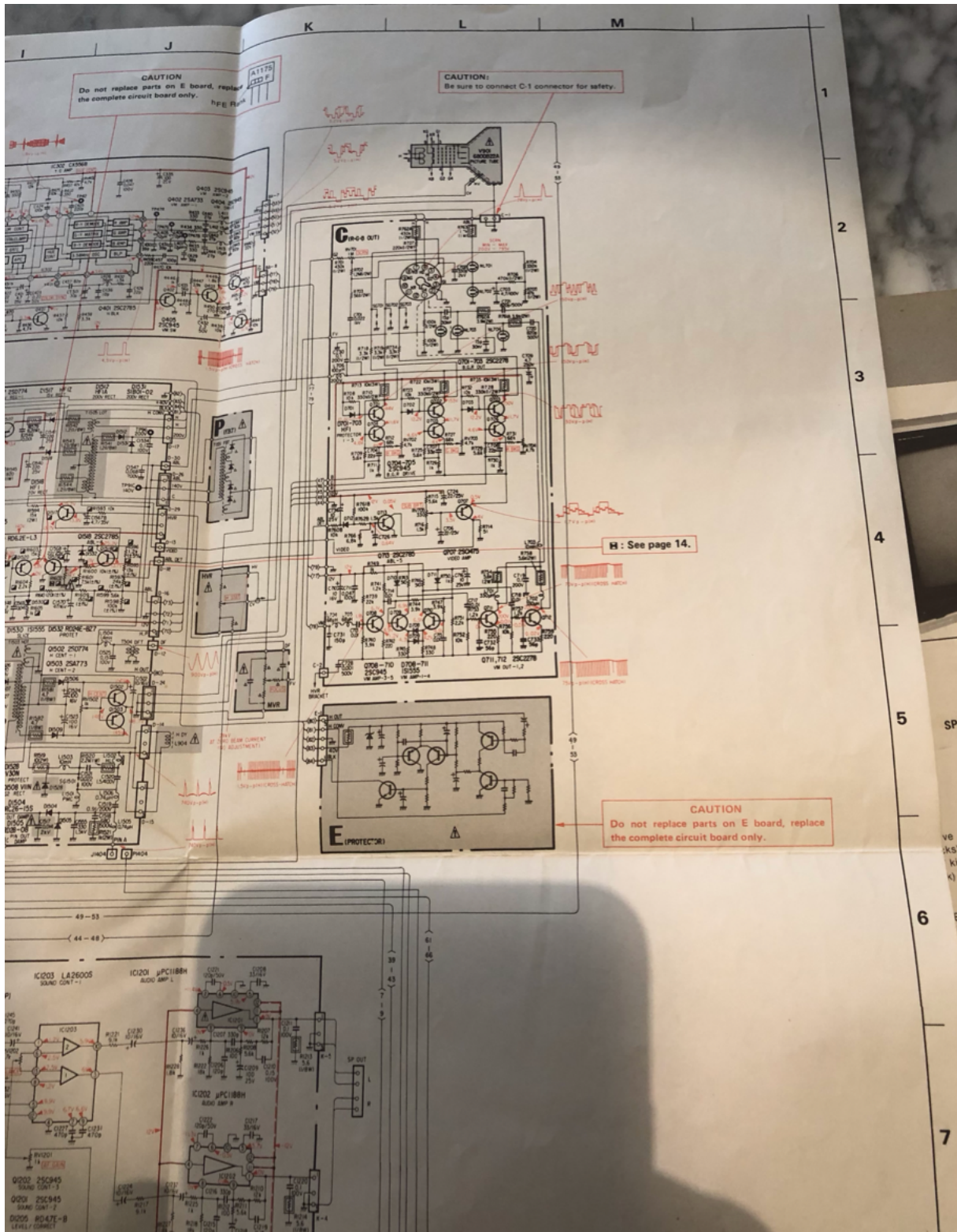










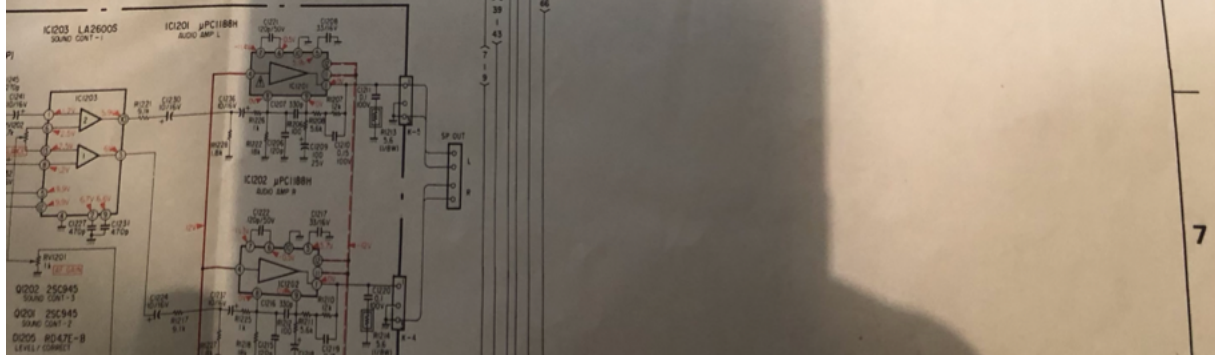


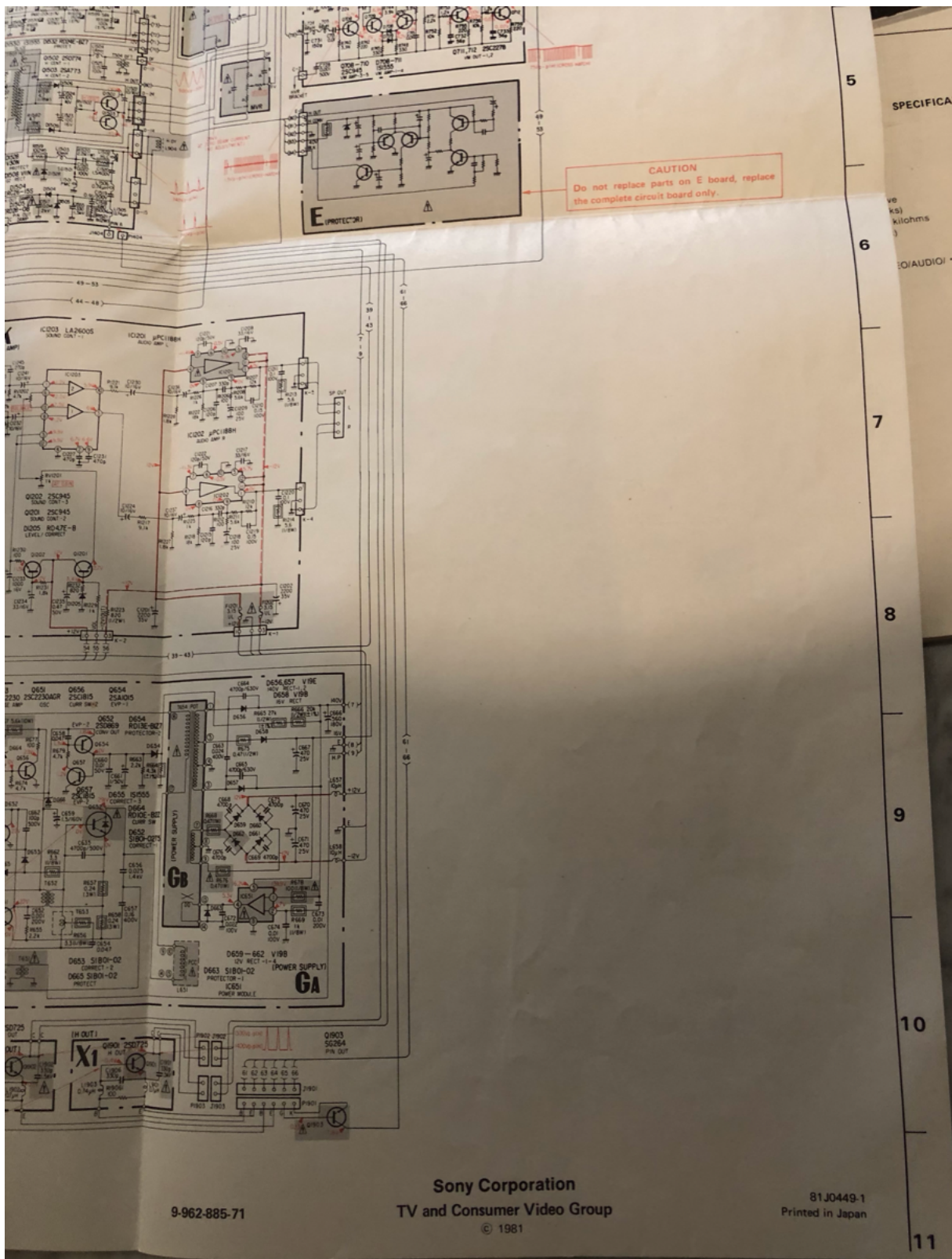
CAUTION  
Do not replace parts on E board, replace the complete circuit board only.

CAUTION:  
Be sure to connect C-1 connector for safety.

H: See page 14.

CAUTION  
Do not replace parts on E board, replace the complete circuit board only.





**CAUTION**  
Do not replace parts on E board, replace the complete circuit board only.

5 SPECIFICA

6 kb  
kilohms  
)

7 O/AUDIO

8

9

10

11

9-962-885-71

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TV and Consumer Video Group

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