

KP-41EXR96

RM-Y112A

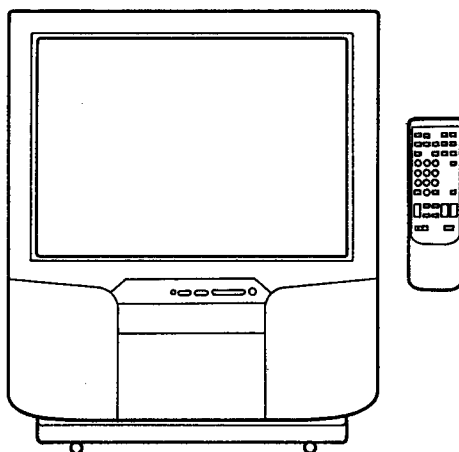
SERVICE MANUAL

US Model

Chassis No. SCC-F19H-A

Canadian Model

Chassis No. SCC-F23C-A



AP CHASSIS

MODELS OF THE SAME SERIES

KP-41EXR96	KPR-46EXR15/53EXR15
KPR-41EXR95	
KPR-46XBR15/53XBR15	

SPECIFICATIONS

Structure	Screen and projector, rear projection type
Projection system	3 picture tubes, 3 lenses, horizontal in-line system
Picture tube	7 inch high-brightness monochrome tubes (5.5 raster size), with optical coupling and liquid cooling system
Projection lenses	High performance, larger-diameter hybrid lens F 1.0
Screen material	Plastic lenticular, Plastic fresnel
Projected picture size	41 inches (measured diagonally)
Screen brightness	2,000 cd/m ²
Television system	American TV standards
Channel coverage	VHF: 2-13 UHF: 14-69 CABLE TV: 1-125
Antenna	75 ohm external antenna terminal for VHF/UHF

Input jacks	VIDEO IN 1
	S VIDEO IN (4-pin mini DIN)
	Y: 1 Vp-p, 75-ohms unbalanced, sync negative
	C: 0.286 Vp-p (Burst signal) 75-ohms
	Video (phono jacks): 1 Vp-p, 75-ohms unbalanced, sync negative
	Audio (phono jacks):
	500 mVrms (100% modulation)
	Impedance: 47 kilo-ohms
	VIDEO IN 2 and 3
	Video (phono jacks): 1 Vp-p, 75-ohms unbalanced, sync negative
	Audio (phono jacks):
	500 mVrms (100% modulation)
	Impedance: 47 kilo-ohms

- Continued on next page -

COLOR REAR VIDEO PROJECTOR

SONY®



Output jacks	<p>MONITOR OUT S VIDEO MONITOR OUT (4-pin mini DIN) Y : 1 Vp-p, 75-ohms unbalanced, sync negative Video (phono jacks) : 1Vp-p, 75-ohms unbalanced, sync negative Audio (phono jacks) : 500mVrms (100% modulation) Impedance : 10 kilo-ohms</p> <p>AUDIO (VAR) OUT (phono jacks) More than 900mVrms (100% modulation) at the maximum volume setting (variable) Impedance : 5kilo-ohms</p> <p>AUDIO OUT (phono jacks) 900mVrms (100% modulation) Impedance : 5kilo-ohms</p>	<p>Speaker output 12W×2 CENTER SPEAKER input 16Ω NORM. 30W MAX 50W Power requirements 120 V AC, 60 Hz Power consumption 310W (max) 7W (standby mode) Dimensions (w/h/d) 930×1,185×505 mm (36⁵/₈×46³/₄×20 inches) Weight 72 kg (138 lb 12 oz) Supplied accessories Remote Commander RM-Y112A (1) with 2 size AA (R6) EVEREADY batteries Optional accessories U/V mixer EAC-66 Connecting cable RK-74A VMC-810S/820S YC-15V/30V VCR Tray SU-PJT1</p>
Speaker	<p>Two-way coaxial speaker system Woofer 130 mm (5inches) diameter Tweeter 35 mm (1.4inches) diameter</p>	

Design and specifications are subject to change without notice.

(CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

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 Δ 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.

(ATTENTION)

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION!!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHASSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISE LORS DE TOUT DEPANNAGE.
 LE CHASSIS DE CE RECEPTEUR EST DIRECTEMENT RACCORDE A L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS A LA SECURITE!!

LES COMPOSANTS IDENTIFIES PAR UNE TRAME ET PAR UNE MAPQUE Δ SUR LES SCHEMAS DE PRINCIPE, LES VUES EXPLOSEES ET LES LISTES DE PIECES CONT D'UNE IMPORTANCE CRITIQUE POUR LA SECURITE DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMERO DE PIECE EST INDIQUE DANS LE PRESENT MANUEL OU DANS DES SUPPLEMENTS PUBLIES PAR SONY. LES REGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SECURITE DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRESENT MANUEL. SUIVRE CES PROCEDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTE.

SAFETY CHECK-OUT

(US Model only)

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

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 2V 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 coldwater 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)

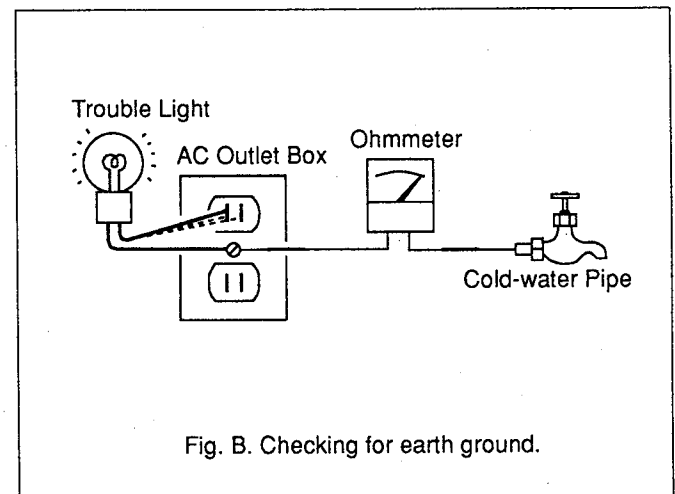
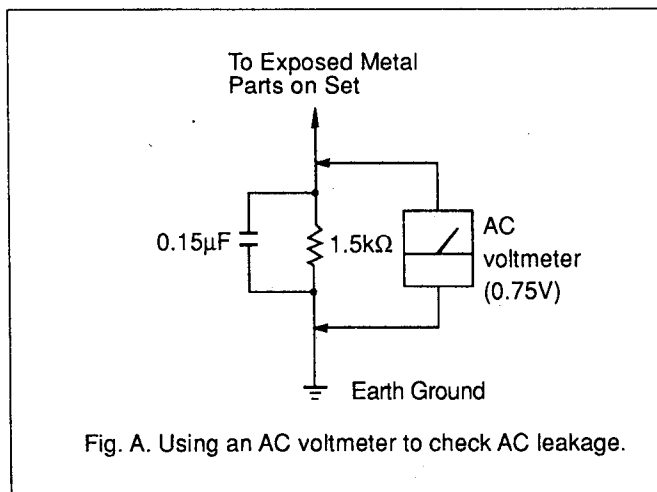


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SECTION 1 GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

Chapter 1: Setting Up Unpacking and Viewing Area

1 Carefully follow the instructions on the outside of the packing carton to unpack the projection TV.

- Notes**
- The supplied accessories are packed in the bottom of the carton. Be sure not to throw them away.
 - Keep the original carton and packing materials to safely transport the projection TV in the future.

2 Check to make sure that the following is included:

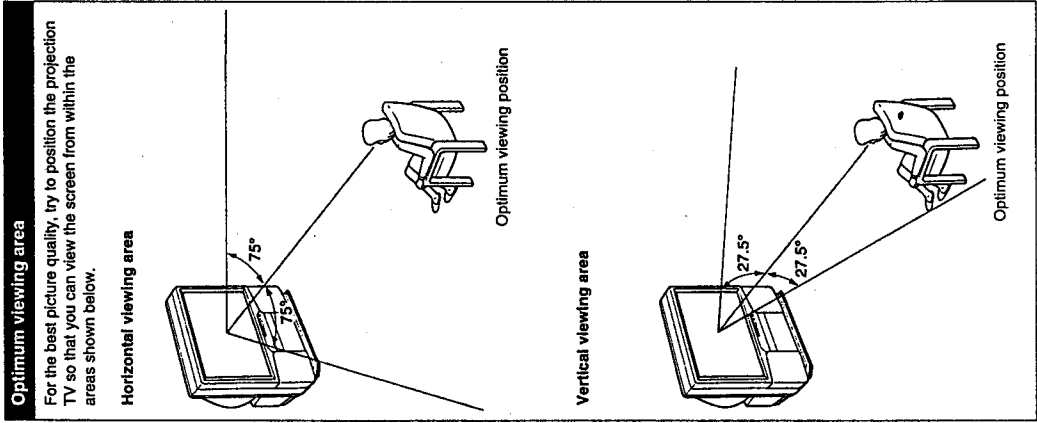
Universal Remote Commander
RM-Y112A (1)
with 2 size AA (R6) EVEREADY batteries

If the Remote Commander is missing, contact your dealer.

3 Place the projection TV in a cool, dry place where the ventilation openings at the sides are not blocked.

4 Plug the projection TV power cord into an AC 120 volt power outlet.

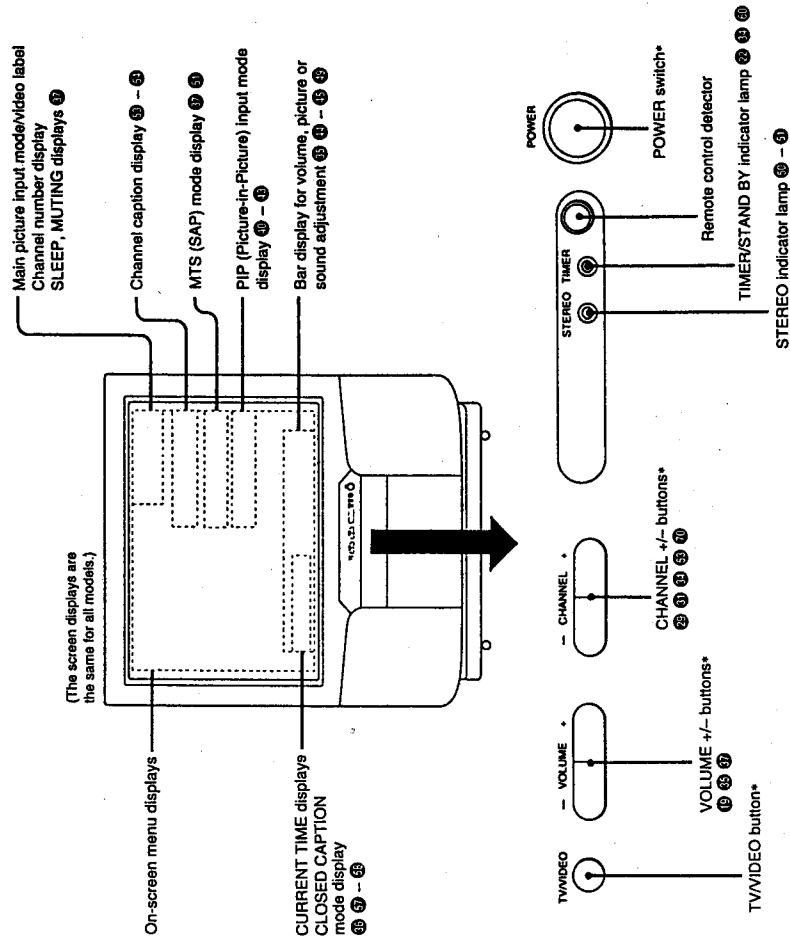
For further precautions, see p. 2.



Locating Controls and Connectors

For details, see the pages indicated by the numbered black circles ●.

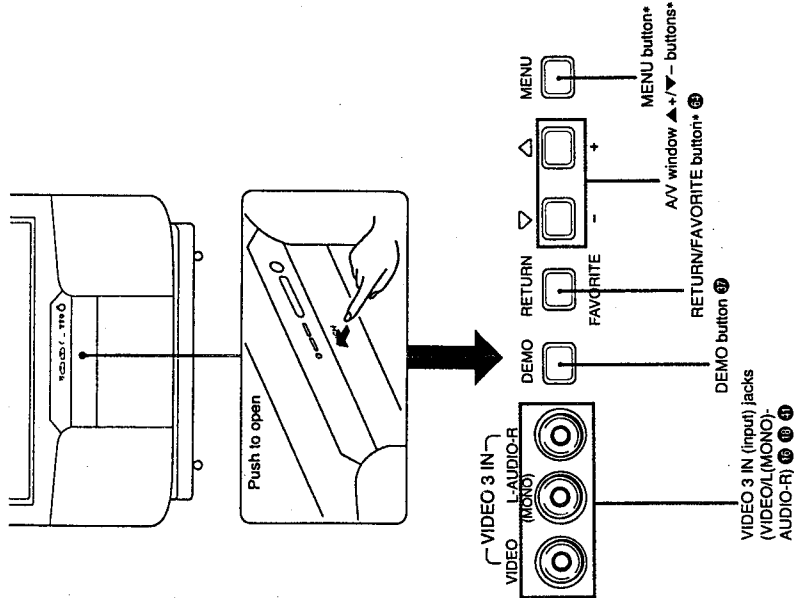
Front



* Buttons with the same function are also located on the Remote Commander (p. 10).

Locating Controls and Connectors

Front Inner panel

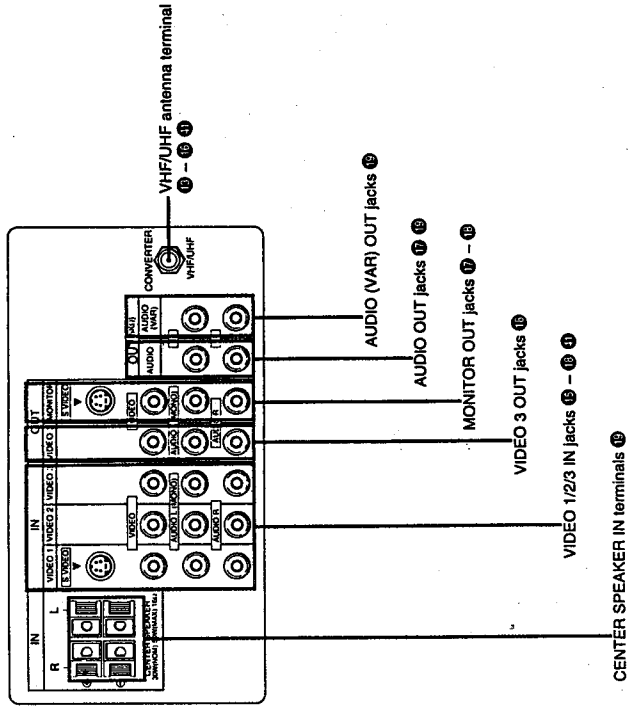


* Buttons with the same function are also located on the Remote Commander (p. 10).

Note

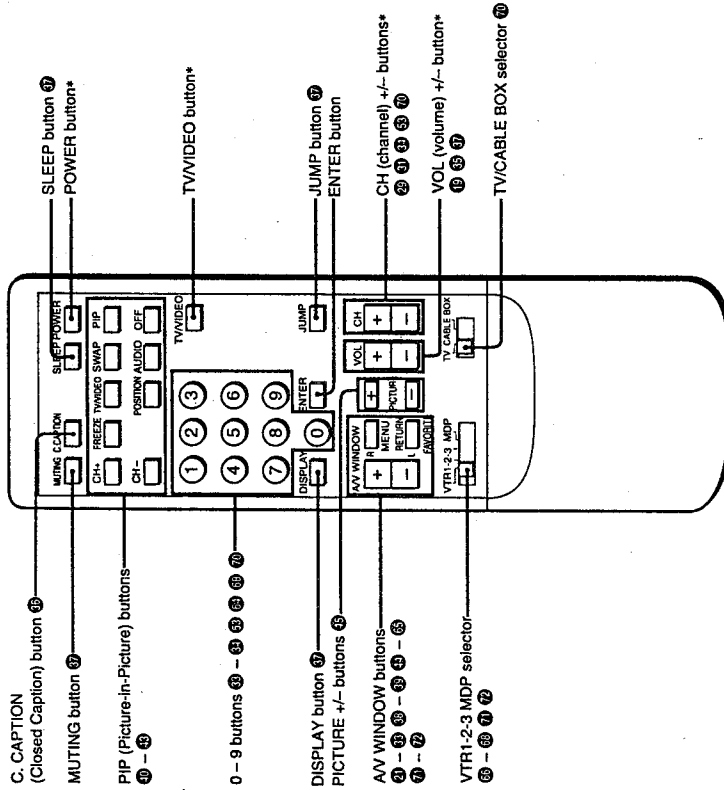
The instructions in this manual are based for the most part on operating the projection TV with the Remote Commander. You can also use the buttons on the projection TV that have the same function.

Rear



Locating Controls and Connectors

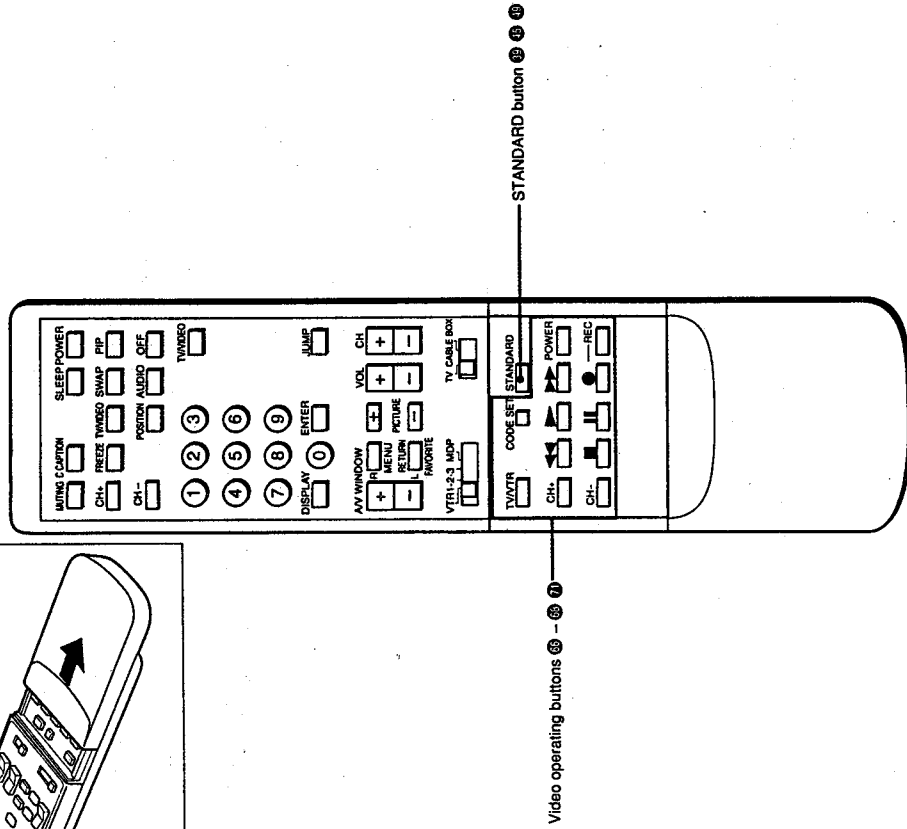
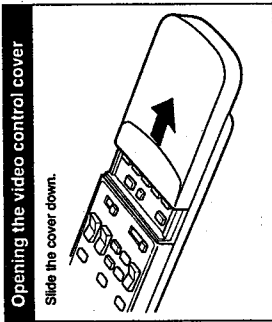
Remote Commander RM-Y112A (with the video control cover closed)



* Buttons with the same function are also located on the projection TV (p. 7).

Note
If the TV/CABLE BOX selector is set to CABLE BOX, the Remote Commander is able to control a connected cable box, not the projection TV (p. 70). Set the selector to TV to control the projection TV with the Remote Commander.

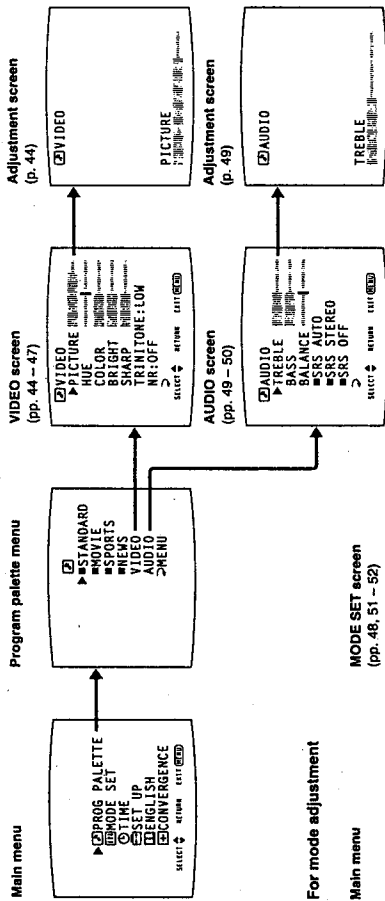
Remote Commander (with the video control cover open)



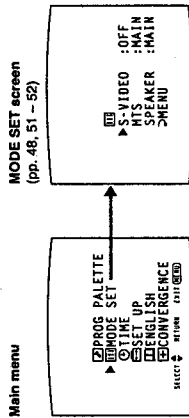
Using the On-Screen Menus

The following flow chart shows the different levels of on-screen menus that you can use to make various adjustments and settings. See the indicated pages for instructions on using each feature.

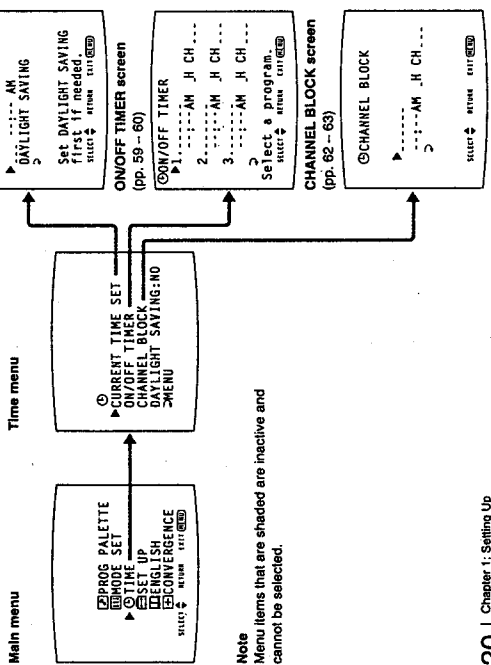
For picture and sound quality adjustment



For mode adjustment

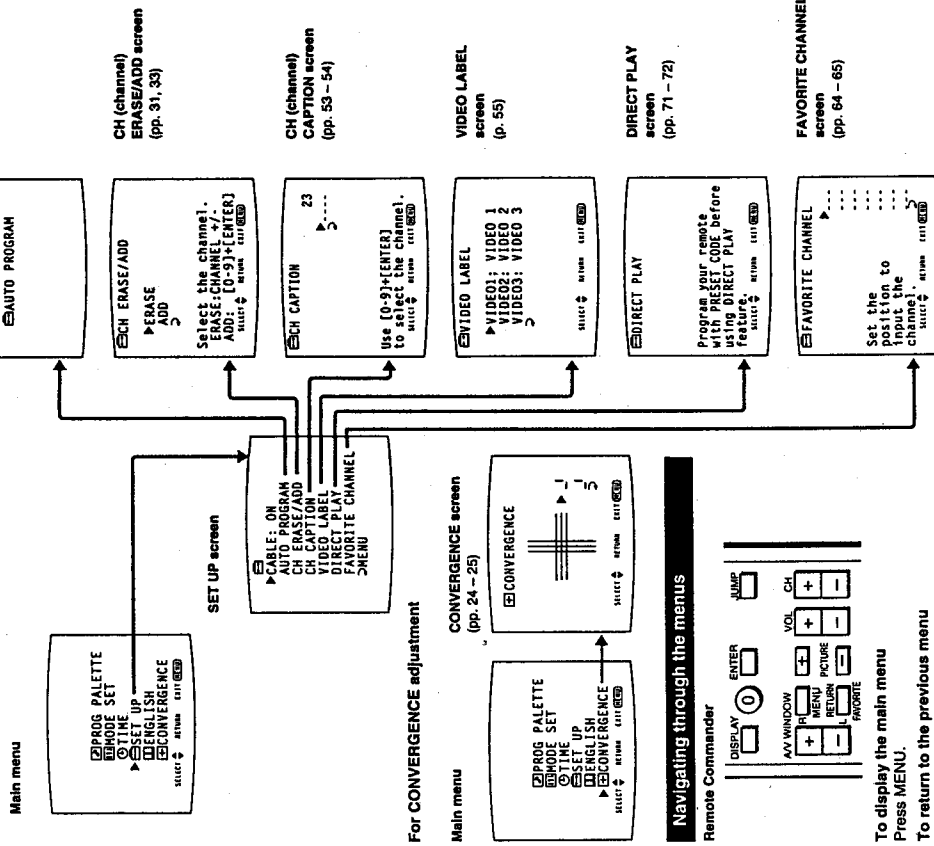


For time-related settings

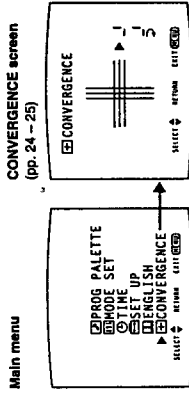


Note
Menu items that are shaded are inactive and cannot be selected.

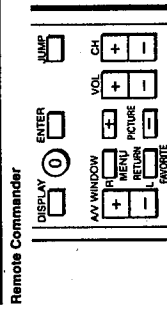
For presetting and other functions



For CONVERGENCE adjustment



Navigating through the menus

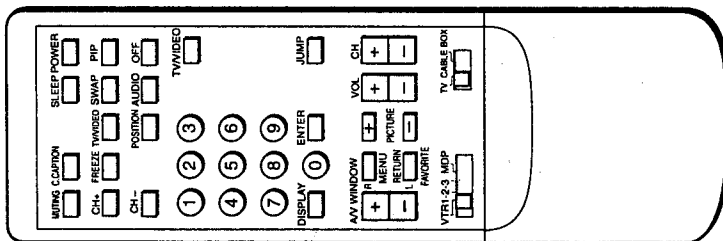


To display the main menu
Press MENU.
To return to the previous menu
Press A/V WINDOW +/- until the cursor points to "MENU".
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.
To return to the normal screen
Press MENU.

Note
The menus disappear automatically, if you do not press a button within 90 seconds.

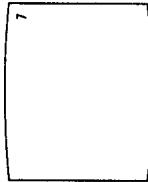
Using the On-Screen Menus



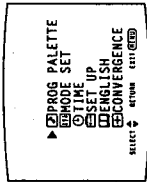
Changing the menu language

The menu language is factory-set to ENGLISH. Follow these instructions to change the menu language to Spanish or French, or back to English.

- 1 Press **POWER** to turn on the projection TV. **TIMER/STAND BY** indicator blinks until the picture appears.



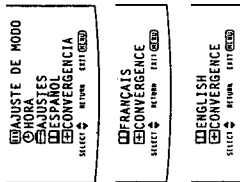
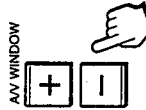
- 2 Press **MENU**. The main menu appears.



- 3 Press **AV WINDOW +/-** until the cursor points to "ENGLISH." Then press **RETURN**. The language display turns red.



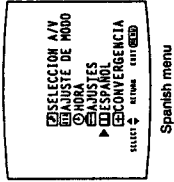
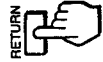
- 4 Press **AV WINDOW +/-** to select the language. Each time you press **AV WINDOW +/-**, the "ESPAÑOL," "FRANÇAIS," and "ENGLISH" menus appear.



Note
Certain parts of the "ESPAÑOL" and "FRANÇAIS" menus remain in English.

To return to the normal screen. Press **MENU**.

- 5 Press **RETURN**. The language is selected.



Spanish menu

Notes concerning menus

- During PIP (Picture-in-Picture) mode, the on-screen menus may overlap the window picture.
- The menus disappear automatically, if you do not press a button within 90 seconds.

KP-41EXR96

RM-Y112A

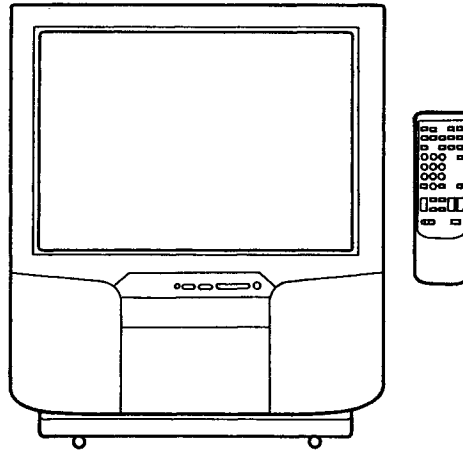
SERVICE MANUAL

US Model

Chassis No. SCC-F19H-A

Canadian Model

Chassis No. SCC-F23C-A



AP CHASSIS

MODELS OF THE SAME SERIES	
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KPR-41EXR95	
KPR-46XBR15/53XBR15	

SPECIFICATIONS

Structure	Screen and projector, rear projection type
Projection system	3 picture tubes, 3 lenses, horizontal in-line system
Picture tube	7 inch high-brightness monochrome tubes (5.5 raster size), with optical coupling and liquid cooling system
Projection lenses	High performance, larger-diameter hybrid lens F 1.0
Screen material	Plastic lenticular, Plastic fresnel
Projected picture size	41 inches (measured diagonally)
Screen brightness	2,000 cd/m ²
Television system	American TV standards
Channel coverage	VHF: 2-13 UHF: 14-69 CABLE TV: 1-125
Antenna	75 ohm external antenna terminal for VHF/UHF

Input jacks	VIDEO IN 1
	S VIDEO IN (4-pin mini DIN)
	Y: 1 Vp-p, 75-ohms unbalanced, sync negative
	C: 0.286 Vp-p (Burst signal) 75-ohms
	Video (phono jacks): 1 Vp-p, 75-ohms unbalanced, sync negative
	Audio (phono jacks):
	500 mVrms (100% modulation)
	Impedance: 47 kilo-ohms
	VIDEO IN 2 and 3
	Video (phono jacks): 1 Vp-p, 75-ohms unbalanced, sync negative
	Audio (phono jacks):
	500 mVrms (100% modulation)
	Impedance: 47 kilo-ohms

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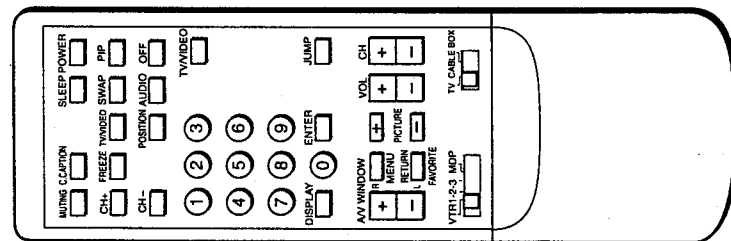
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COLOR REAR VIDEO PROJECTOR

SONY®

Adjusting Color Registration (CONVERGENCE)



In a projection TV, the projection tube image appears on the screen in three color layers (red, green and blue). If these layers are not in proper registration, the color is poor and the picture blurs. To correct this, perform the CONVERGENCE adjustment.

1 Press MENU.
The main menu appears.

2 Press A/V WINDOW +/- until the cursor points to "CONVERGENCE."*

3 Press RETURN.
The CONVERGENCE screen and the colored adjustment lines appear.

R = Red
G = Green
B = Blue

4 Press A/V WINDOW +/- until the cursor points to the symbol representing the line you want to adjust (see the key below).

AV WINDOW

Adjustment line symbols key
 | (red vertical: left/right adjustment)
 - (red horizontal: up/down adjustment)
 | (blue vertical: left/right adjustment)
 - (blue horizontal: up/down adjustment)

To return to the previous menu
 Press A/V WINDOW +/- until the cursor points to " > MENU."
 Then press RETURN.

To return to the main menu
 Repeat the above, until you reach the main menu.

To return to the normal screen.
 Press MENU.

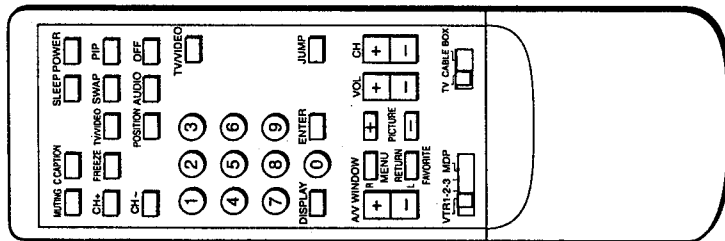
5 Press RETURN.
The adjustment line is selected.

6 Press A/V WINDOW +/- until the line converges with the center green line.
Then press RETURN.

To move up	Press A/V WINDOW +.
To move down	Press A/V WINDOW -.
To move right	
To move left	

7 Repeat steps 4 - 6 to adjust the other lines, until all the lines have overlapped to form a white cross.

Setting CABLE ON or OFF



If you have cable connected to the projection TV, follow the steps below to set the cable connection on or off. Set CABLE OFF to preset or watch VHF or UHF channels, and set CABLE ON to preset or watch cable TV channels.

Note
If the projection TV is in video mode, the "CABLE" display is shaded and cannot be selected.
Press TVVIDEO to change to TV mode.

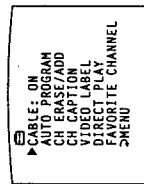
1 Press MENU.
The main menu appears.



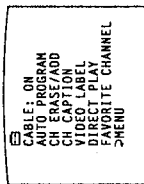
2 Press AV WINDOW +/- until the cursor points to "SET UP."



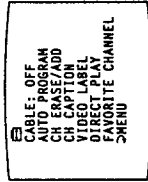
3 Press RETURN.
The set up menu appears, and the cursor points to "CABLE."



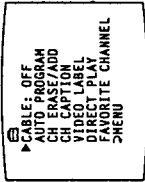
4 Press RETURN again.
The mode display turns red.



5 Press AV WINDOW +/- to select "ON" or "OFF."



6 Press RETURN.
The setting is complete.



To return to the previous menu
Press AV WINDOW +/- until the cursor points to "MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.
To return to the normal screen.
Press MENU.

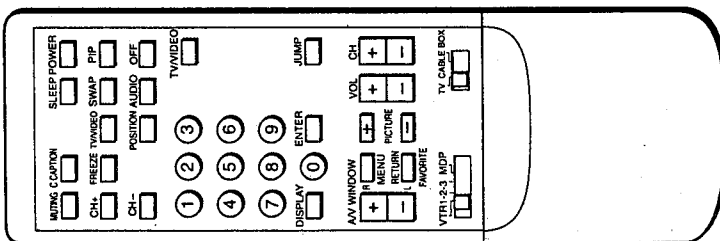
Cable TV channel chart*
Cable TV systems use letters or numbers to designate channels. To tune in a channel, refer to the chart below.

Number on this TV	Corresponding CATV channel
1	A-8
5	A-7
6	A-6
14	A
15	B
16	C
17	D
18	E
19	F
20	G
21	H
22	I
23	J
24	K
25	L
26	M
27	N
28	O
29	P
30	Q
31	R
32	S
33	T
34	U
35	V
36	W
37	W-1
38	W-2
39	W-3
•	•
•	•
•	•
93	W-57
94	W-58
95	A-5
96	A-4
97	A-3
98	A-2
99	A-1
100	W-59
101	W-60
102	W-61
•	•
•	•
•	•
123	W-82
124	W-83
125	W-84

Check with your local cable TV company for more complete information on the available channels.
* The designation of the cable TV channels conforms to the EIA/NCTA recommendation.

Presetting TV Channels

By presetting TV channels to the projection TV, you can select channels by pressing CH (CHANNEL) +/-.
(You can select VHF channels 2 - 13 without presetting.)



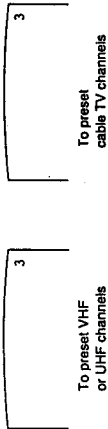
Presetting all receivable channels automatically

Follow these instructions to preset all the receivable VHF, UHF or cable TV channels to the projection TV.

Notes

- If the projection TV is in video mode, the "AUTO PROGRAM" display is shaded and cannot be selected. Press TV/VIDEO to change to TV mode.
- Perform auto programming during the day rather than late at night, when some channels may not be broadcasting.

1 Set the cable connection on or off (pp. 26 - 27) to select the type of channel you want to preset, VHF/UHF or cable TV.



2 Press MENU.
The main menu appears.



3 Press AV WINDOW +/- until the cursor points to "SET UP."



Receivable channels for this projection TV

VHF: 2 - 13
UHF: 14 - 69
Cable: 1 - 125

To select TV channels without presetting

Press the 0 - 9 buttons and ENTER.

To return to the previous menu

Press AV WINDOW +/- until the cursor points to "MENU."
Then press RETURN.

To return to the main menu

Repeat the above, until you reach the main menu.

To return to the normal screen.

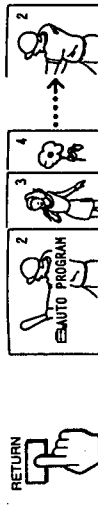
Press MENU.



5 Press AV WINDOW +/- until the cursor points to "AUTO PROGRAM."

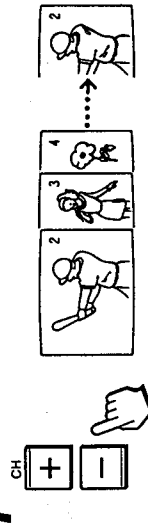


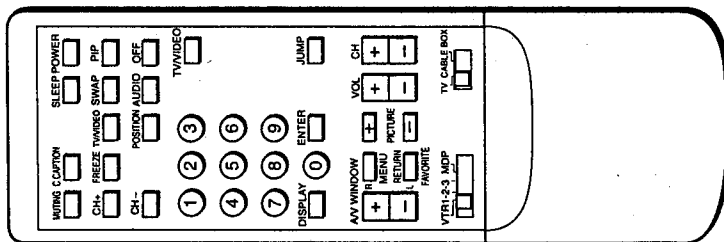
6 Press RETURN.



"AUTO PROGRAM" appears on the screen and receivable channels (other than the channels already preset) are preset in numerical sequence. The channels previously preset will not remain in the projection TV's memory. When no more channels are found, auto programming stops and the screen returns automatically to the set up menu.

7 Press CH +/- to check or view the preset channels.





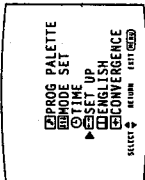
Erasing TV channels

Follow these instructions to erase unnecessary TV channels, so that when you press CH +/-, the channel(s) are skipped.

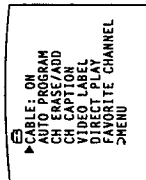
1 Press MENU. The main menu appears.



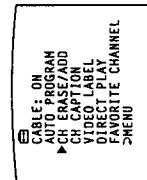
2 Press AV WINDOW +/- until the cursor points to "SET UP."



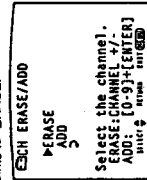
3 Press RETURN. The set up menu appears.



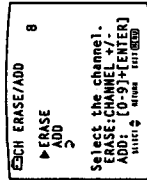
4 Press AV WINDOW +/- until the cursor points to "CH ERASE/ADD."



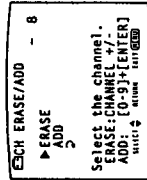
5 Press RETURN. The CH ERASE/ADD screen appears, and the cursor points to "ERASE."



6 Press CH +/- to select the channel you want to erase. The channel display appears.



7 Press RETURN. A "-" sign appears in front of the channel number display, indicating that the channel is erased, then the CH ERASE/ADD screen automatically reappears.



To erase another channel. Repeat steps 6 - 7.

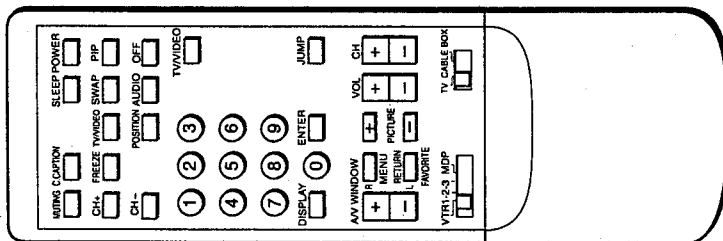
To return to the previous menu. Press AV WINDOW +/- until the cursor points to "> MENU." Then press RETURN.

To return to the main menu. Repeat the above, until you reach the main menu.

To return to the normal screen. Press MENU.

Note
If you erase a VHF or UHF channel, the same number cable TV channel is also erased (and vice versa).

Presetting TV Channels



Adding TV channels

Follow these instructions to add TV channels one by one to the selection memory, or to replace a TV channel you previously erased (pp. 30 - 31).

1 Press MENU
The main menu appears.

▶ PROG. PALETTE
◀ MODE SET
▶ TIME UP
▶ SET
▶ ENGLISH
▶ CONVERGENCE
SELECT ↵ RETURN EXIT

2 Press AV WINDOW +/- until the cursor points to "SET UP."
AV WINDOW

▶ PROG. PALETTE
◀ MODE SET
▶ TIME UP
▶ SET
▶ ENGLISH
▶ CONVERGENCE
SELECT ↵ RETURN EXIT

3 Press RETURN.
The set up menu appears.

▶ CABLE: ON
▶ AUTO. PROGRAM
▶ CHANNEL ADD
▶ CH. CAPTION
▶ VIDEO LABEL
▶ DIRECT PLAY
▶ FAVORITE CHANNEL
▶ MENU

4 Press AV WINDOW +/- until the cursor points to "CH ERASE/ADD."
AV WINDOW

▶ CABLE: ON
▶ AUTO. PROGRAM
▶ CH. ERASE/ADD
▶ CH. CAPTION
▶ VIDEO LABEL
▶ DIRECT PLAY
▶ FAVORITE CHANNEL
▶ MENU

5 Press RETURN.
The CH ERASE/ADD screen appears.

▶ CH ERASE/ADD
▶ ERASE
▶ ADD
▶ SELECT
Select the channel.
ERASE: CHANNEL +/-
ADD: [0-9]+[ENTER]
RETURN EXIT

6 Press AV WINDOW +/- until the cursor points to "ADD."
AV WINDOW

▶ CH ERASE/ADD
▶ ERASE
▶ ADD
▶ SELECT
Select the channel.
ERASE: CHANNEL +/-
ADD: [0-9]+[ENTER]
RETURN EXIT

7 Press 0 - 9 and ENTER to select the channel you want to add.
The channel display appears.

▶ CH ERASE/ADD 10
▶ ERASE
▶ ADD
▶ SELECT
Select the channel.
ERASE: CHANNEL +/-
ADD: [0-9]+[ENTER]
RETURN EXIT

8 Press RETURN
A "+" sign appears in front of the channel number display, indicating that the channel is added; then the CH ERASE/ADD screen automatically reappears.

▶ CH ERASE/ADD + 10
▶ ERASE
▶ ADD
▶ SELECT
Select the channel.
ERASE: CHANNEL +/-
ADD: [0-9]+[ENTER]
RETURN EXIT

To add another channel
Repeat steps 7 - 8.

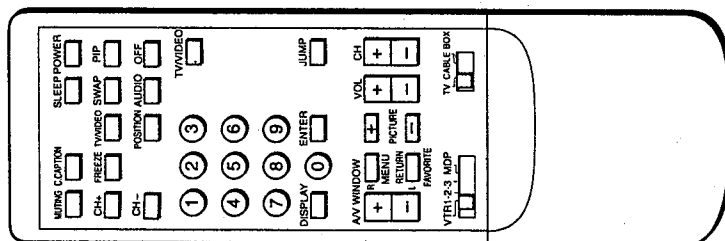
To return to the previous menu
Press AV WINDOW +/- until the cursor points to "MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU.

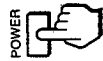
Note
If you add a VHF or UHF channel, the same number cable TV channel is also added (and vice versa).

Chapter 2: Using Basic Features Watching TV Programs



Make sure that the TV/CABLE BOX selector on the Remote Commander is set to TV, in order to control the projection TV with the Remote Commander.

1 Press **POWER** to turn on the projection TV. **TIMER/STAND BY** indicator blinks until the picture appears.



2 Set the cable connection on or off (pp. 26 - 27) to select the type of channel you want to watch, VHF/UHF or cable TV.



To watch VHF or UHF channels



To watch cable TV channels

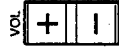
3 Select a channel in one of the following two ways:
To scan the preset channels in numerical sequence, press **CH +/-**.



To select a channel directly, press 0 - 9 and then **ENTER**.
For example, to select channel 10, press 1, 0 and **ENTER**.



4 Press **VOL +/-** to adjust the volume.



Press **+** to increase the volume.
Press **-** to decrease the volume.

If **VIDEO 1, VIDEO 2 or VIDEO 3** appears on the screen

Press **TV/VIDEO** until a TV channel number appears.

To select channels more easily

Set **FAVORITE CHANNEL** (pp. 64 - 65).

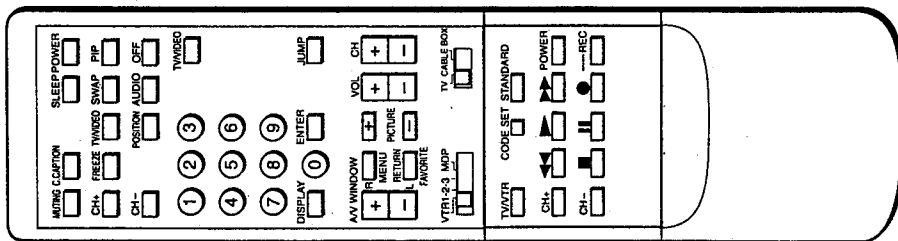
To turn off the projection TV

Press **POWER**.

Selecting a Picture and Sound Mode

This projection TV features four modes (STANDARD, MOVIE, SPORTS, NEWS) that offer different picture and sound qualities. Choose the one that best suits the type of program that you want to watch.

Example: Select MOVIE mode for picture and sound that gives you the sense of being in a movie theater.



(with video control cover open)

1 Press MENU. The main menu appears, and the cursor points to "PROG PALETTE."

2 Press RETURN. The program palette menu appears.

3 Press AV WINDOW +/- until the cursor points to "MOVIE."

4 Press RETURN. The "MOVIE" display turns green, indicating that MOVIE mode is selected.

To select a different mode Repeat steps 3 - 4.

To return to the previous menu Press AV WINDOW +/- until the cursor points to "MENU." Then press RETURN.

To return to the main menu Repeat the above, until you reach the main menu.

To return to the normal screen. Press MENU.

Selecting standard mode (without using the menus)
Follow these instructions to select standard mode without using the on-screen menus.

Press STANDARD.



When you select STANDARD mode
You receive standard picture and sound quality. Any video or audio adjustments you made ("Adjusting the Projection TV," pp. 44 - 52) are cancelled and the original factory settings are restored.

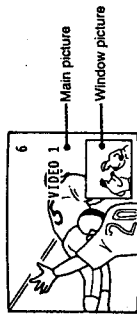
When you select MOVIE mode
You receive a finely detailed picture, and a theatrical audio effect. To further adjust picture and sound qualities, follow the instructions on pp. 44 - 52.

When you select SPORTS mode
You receive a vivid, bright picture, and sound with a sports stadium effect. To further adjust picture and sound qualities, follow the instructions on pp. 44 - 52.

When you select NEWS mode
Picture noise is reduced, and you receive clear voice reproduction. To further adjust picture and sound qualities, follow the instructions on pp. 44 - 52.

Chapter 3: Using Advanced Features Watching Two Pictures at Once (PIP)

You can watch both the main picture and a window picture simultaneously, using the Picture-in-Picture (PIP) function. KP-41EXR96 is equipped with one-tuner PIP. To watch two TV channels simultaneously, you must first connect a VCR to the projection TV, which will enable you to watch a second TV channel through the VCR tuner. (See "Connecting Other Equipment," pp. 15-19.) Other models are equipped with two-tuner PIP, allowing you to watch two TV channels at once.

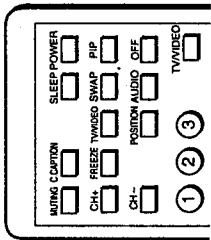


Picture-in-Picture special features

- When watching the main picture and a window picture, you can:
- Swap the main and window pictures (SWAP).
 - Change the position of the window picture (POSITION).
 - Display a still picture (FREEZE).
 - Choose the sound from the main or window picture (AUDIO).

Displaying a window picture

Remote Commander



Press PIP to display a window picture

Input source mode or TV channel for the main picture



Input source mode or TV channel for the window picture



A window picture appears in the last mode you watched. Each time you press PIP, a 1/8 or 1/16 size window picture appears alternately.

To turn PIP function off

Press OFF.
The window picture disappears.

To receive the window picture sound

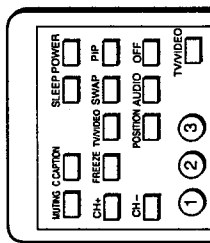
Press AUDIO.

The \updownarrow display appears for a few seconds, indicating that the window picture sound is being received.

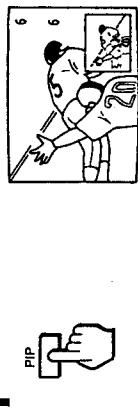
To restore the main picture sound
Press AUDIO again.

Changing the window picture input mode

Remote Commander

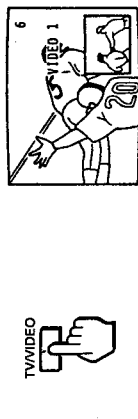


Press PIP to display a window picture.



Press TVVIDEO in the Picture-in-Picture control area to select the input mode.

Each time you press TVVIDEO, TV, VIDEO 1, VIDEO 2, and VIDEO 3 appear in sequence.

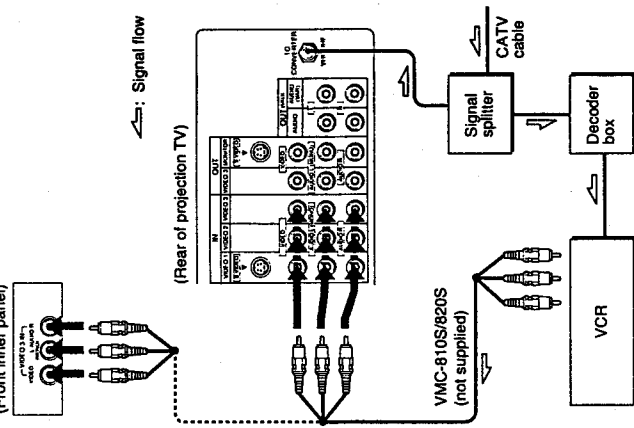


To change TV channels in the window picture

Press CH +/- in the PIP control area.

Displaying CATV Input as a window picture

To use Picture-in-Picture with pay cable TV input, make the connections to your cable converter box as shown below. (Front inner panel)



After making the above connections, turn the cable connection on by following the steps on pp. 26-27; then continue with the steps below.

1-2 Follow steps 1-2 in "Changing the window picture input mode" on this page to select the video input mode for your connected VCR.

3 Put your VCR on an inactive channel (channel 3 or 4).

4 Change pay cable TV channels with the decoder box.

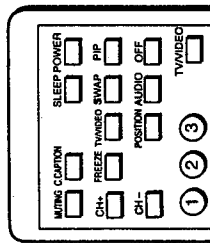
To control your cable converter box with the supplied Remote Commander
See p. 70.

Watching Two Pictures at Once (PIP)

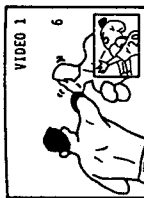
Changing the position of the window picture

Follow these instructions to change the position of the window picture on the screen.

Remote Commander

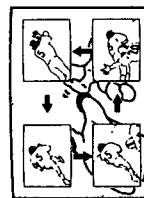


1 Press PIP to display a window picture.



2 Press POSITION.

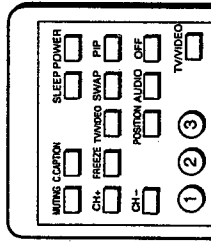
Each time you press POSITION, the window picture moves as illustrated.



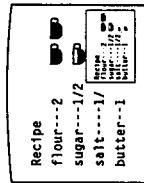
Displaying a still picture

Use the FREEZE function to display a still picture. This function is useful when you want to write down a recipe from a cooking program, a displayed address or phone number and so on.

Remote Commander

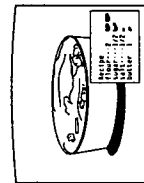


1 Press PIP to display a window picture.



2 Press FREEZE.

The window picture image remains still on the screen.

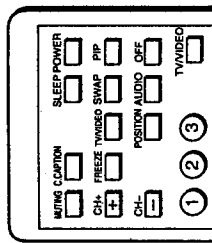


To restore the normal picture Press FREEZE again.

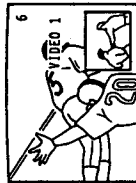
Swapping the main and window pictures

Follow these instructions to swap the input signals of the main and window pictures.

Remote Commander



1 Press PIP to display a window picture.



2 Press SWAP.

Each time you press SWAP, the images from the main and window pictures switch places.



Output jacks	MONITOR OUT S VIDEO MONITOR OUT (4-pin mini DIN) Y : 1 Vp-p, 75-ohms unbalanced, sync negative Video (phono jacks) : 1Vp-p, 75-ohms unbalanced, sync negative Audio (phono jacks) : 500mVrms (100% modulation) Impedance : 10-kilo-ohms AUDIO (VAR) OUT (phono jacks) More than 900mVrms (100% modulation) at the maximum volume setting (variable) Impedance : 5kilo-ohms AUDIO OUT (phono jacks) 900mVrms (100% modulation) Impedance : 5kilo-ohms	Speaker output CENTER SPEAKER input , 12W×2 16Ω NORM. 30W MAX 50W Power requirements 120 V AC, 60 Hz Power consumption 310W (max) 7W (standby mode) Dimensions (w/h/d) 930×1,185×505 mm (365/8×463/4×20 inches) Weight 72 kg (138 lb 12 oz) Supplied accessories Remote Commander RM-Y112A (1) with 2 size AA (R6) EVEREADY batteries Optional accessories U/V mixer EAC-66 Connecting cable RK-74A VMC-810S/820S YC-15V/30V VCR Tray SU-PJT1
Speaker	Two-way coaxial speaker system Woofer 130 mm (5inches) diameter Tweeter 35 mm (1.4inches) diameter	

Design and specifications are subject to change without notice.

(CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

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 Δ 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.

(ATTENTION)

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION!!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHASSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISE LORS DE TOUT DEPANNAGE.
LE CHASSIS DE CE RECEPTEUR EST DIRECTEMENT RACCORDE A L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS A LA SECURITE!!

LES COMPOSANTS IDENTIFIES PAR UNE TRAME ET PAR UNE MAPQUE Δ SUR LES SCHEMAS DE PRINCIPE, LES VUES EXPLOSEES ET LES LISTES DE PIECES CONT D'UNE IMPORTANCE CRITIQUE POUR LA SECURITE DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMERO DE PIECE EST INDIQUE DANS LE PRESENT MANUEL OU DANS DES SUPPLEMENTS PUBLIES PAR SONY. LES REGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SECURITE DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRESENT MANUEL. SUIVRE CES PROCEDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTE.

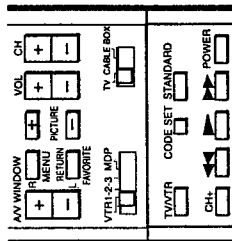
Adjusting the Projection TV

You can adjust the picture and sound for each input mode (TV, VIDEO 1, VIDEO 2, VIDEO 3) by pressing TV/VIDEO on the projection TV or on the Remote Commander, to select the input mode, before making the adjustments. These adjustments are retained in memory even when you turn off the projection TV, but are cancelled after you change the adjustments, or select a picture and sound mode (pp. 38 - 39).

Adjusting the picture

Follow these instructions to adjust PICTURE, HUE, COLOR, BRIGHT (brightness) and SHARP (sharpness).

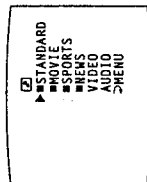
Remote Commander (with video control cover open)



1 Press MENU.
The main menu appears, and the cursor points to "PROG PALETTE."

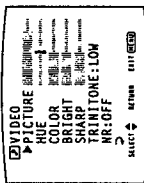


2 Press RETURN.
The program palette menu appears.



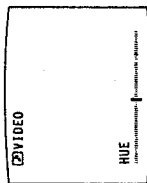
3 Press AV WINDOW +/- until the cursor points to "VIDEO."

4 Press RETURN.
The VIDEO screen appears.



5 Press AV WINDOW +/- until the cursor points to the item you want to adjust.

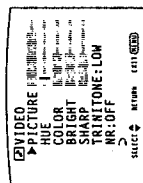
6 Press RETURN.
The adjustment screen appears.



7 Press AV WINDOW +/- to make the adjustment.

Picture quality	Press A/V WINDOW -	Press A/V WINDOW +
PICTURE	For decreased picture contrast with soft color	For increased picture contrast with vivid color
HUE	Skin tones become purplish	Skin tones become greenish
COLOR	For less color intensity	For more color intensity
BRIGHT	For less brightness	For more brightness
SHARP	For less sharpness	For more sharpness

8 Press RETURN.
The adjustment is complete, and the VIDEO screen automatically reappears.



To adjust other items Repeat steps 5 - 8.

To restore the factory settings for all the items Select "STANDARD" on the program palette menu, and press RETURN; or, press STANDARD on the Remote Commander. All the items, including TRINITONE (p. 46) and NR (p. 47) return to their original factory settings.

To adjust picture contrast You can also adjust picture contrast with the PICTURE +/- buttons on the Remote Commander.



Press + to increase picture contrast with vivid color. Press - to decrease picture contrast with soft color. The picture adjustment screen appears.

To return to the previous menu Press A/V WINDOW +/- until the cursor points to "MENU." Then press RETURN.

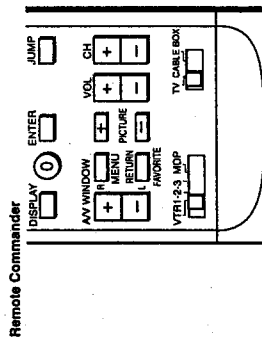
To return to the main menu Repeat the above, until you reach the main menu.

To return to the normal screen Press MENU.

Adjusting the Projection TV

Setting the TRINITONE mode

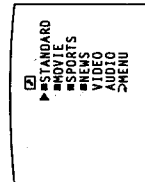
Color picture tubes are usually manufactured with a fixed color temperature (tint) that determines the "warmth" (red tint) or "coolness" (blue tint) of the picture. Use the Sony Trinitone feature to adjust the picture color to your preference.



1 Press MENU.
The main menu appears, and the cursor points to "PROG PALETTE."



2 Press RETURN.
The program palette menu appears.



3 Press AV WINDOW +/- until the cursor points to "VIDEO."

4 Press RETURN.
The VIDEO screen appears.



5 Press AV WINDOW +/- until the cursor points to "TRINITONE."

6 Press RETURN.
The mode display turns red.

7 Press AV WINDOW +/- to select "HIGH" or "LOW."

Select "HIGH" to make the picture cool (bluish).
Select "LOW" to make the picture warm (reddish).

8 Press RETURN.
The setting is complete.

To return to the previous menu

Press AV WINDOW +/- until the cursor points to "MENU."
Then press RETURN.

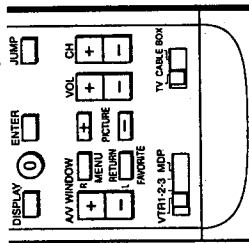
To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU.

Setting NR (picture noise reduction) ON or OFF

Follow these instructions to reduce picture noise.

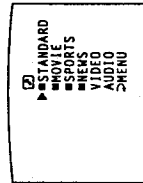
Remote Commander



1 Press MENU.
The main menu appears, and the cursor points to "PROG PALETTE."



2 Press RETURN.
The program palette menu appears.



3 Press AV WINDOW +/- until the cursor points to "VIDEO."

4 Press RETURN.
The VIDEO screen appears.

5 Press AV WINDOW +/- until the cursor points to "NR."



6 Press RETURN.
The mode display turns red.

7 Press AV WINDOW +/- to select "ON" or "OFF."

Select "ON" to reduce picture noise.
Select "OFF" to restore the normal picture.

8 Press RETURN.
The setting is complete.

To return to the previous menu

Press AV WINDOW +/- until the cursor points to "MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

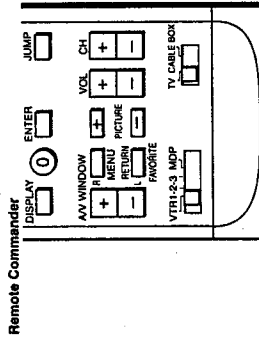
To return to the normal screen
Press MENU.

Adjusting the Projection TV

Setting S-VIDEO ON or OFF

Follow these instructions to set S-VIDEO on or off, depending on the kind of video equipment you have connected to the projection TV. For instructions on connecting video equipment, see pp. 15 - 18.

Note
If the projection TV is in TV, VIDEO 2 or VIDEO 3 mode, the "S-VIDEO" display is shaded and cannot be selected. Press TV/VIDEO on the projection TV or on the Remote Commander to change to VIDEO 1 mode.

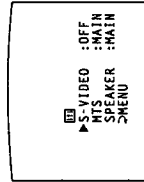


1 Press MENU.
The main menu appears.



2 Press AV WINDOW +/- until the cursor points to "MODE SET."

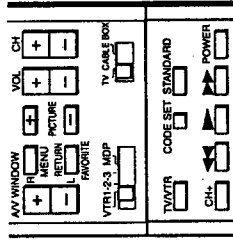
3 Press RETURN.
The mode set menu appears, with the cursor pointing to "S-VIDEO."



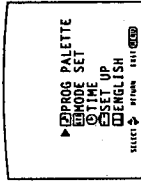
Adjusting the sound

Follow these instructions to adjust the TREBLE, BASS and BALANCE.

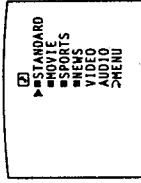
Remote Commander (with video control cover open)



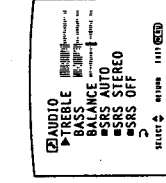
1 Press MENU.
The main menu appears, and the cursor points to "PROGRAM PALETTE."



2 Press RETURN.
The program palette menu appears.



3 Press AV WINDOW +/- until the cursor points to "AUDIO."



4 Press RETURN.
The AUDIO screen appears.

5 Press AV WINDOW +/- until the cursor points to the item you want to adjust.

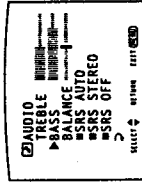
6 Press RETURN.
The adjustment screen appears.



7 Press AV WINDOW +/- to make the adjustment.

Sound quality	Press AV WINDOW -	Press AV WINDOW +
TREBLE	To decrease the treble response	To increase the treble response
BASS	To decrease the bass response	To increase the bass response
BALANCE	To emphasize the left speaker's volume	To emphasize the right speaker's volume

8 Press RETURN.
The adjustment is complete, and the AUDIO screen automatically respairs.



To adjust other items
Repeat steps 5 - 9.

To restore the factory settings for all the items
Select "STANDARD" on the program palette menu, and press RETURN; or, press STANDARD on the Remote Commander.
All the items, including SRS mode (p. 50) return to their original factory settings.

To return to the previous menu
Press AV WINDOW +/- until the cursor points to "MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU.

Adjusting the Projection TV

Selecting an SRS (Sound Retrieval System) mode

For lifelike sound reproduction, follow the instructions below to select the SRS mode you prefer.

In SRS AUTO mode, SRS functions in both monaural and stereo modes.

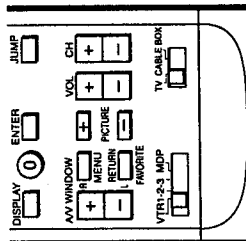
Monaural sound programs will have a 'simulated stereo' effect.

In SRS STEREO mode, SRS functions only when a stereo program is received.

The STEREO lamp on the TV lights up whenever a stereo broadcast is received.

Select SRS OFF mode to return to normal sound mode.

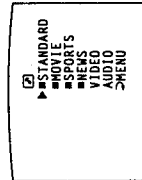
Remote Commander



- 1 Press MENU.
The main menu appears, and the cursor points to "PROG PALETTE."

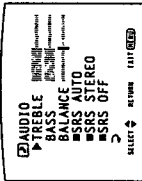


- 2 Press RETURN.
The program palette menu appears.



- 3 Press AV WINDOW +/- until the cursor points to "AUDIO."

- 4 Press RETURN.
The AUDIO screen appears.



- 5 Press AV WINDOW +/- until the cursor points to the SRS mode you want.

- 6 Press RETURN.
The mode is selected.

Selecting an MTS (Multichannel TV Sound) mode

Follow these instructions to select an MTS mode.

Select MAIN mode to listen to stereo sound.

The STEREO lamp on the projection TV lights up whenever a stereo broadcast is received.

Select SAP mode to listen to Second Audio Programs.

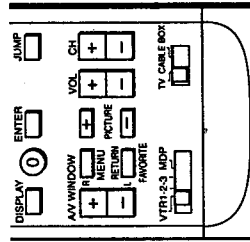
Select MONO mode to eliminate excessive noise during stereo broadcasts, caused by a weak incoming signal.

Note

If the projection TV is in video mode, the "MTS" display is shaded and cannot be selected.

Press TV/VIDEO on the projection TV or on the Remote Commander to change to TV mode.

Remote Commander

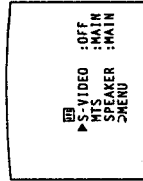


- 1 Press MENU.
The main menu appears.



- 2 Press AV WINDOW +/- until the cursor points to "MODE SET."

- 3 Press RETURN.
The mode set menu appears.



- 4 Press AV WINDOW +/- until the cursor points to "MTS."

- 5 Press RETURN.
The mode display turns red.

- 6 Press AV WINDOW +/- to select the mode you want.
Each time you press AV WINDOW +/-, "MAIN," "SAP," and "MONO" appear in sequence.

- 7 Press RETURN.
The mode is selected.

To return to the previous menu
Press AV WINDOW +/- until the cursor points to
"MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

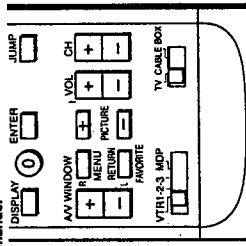
To return to the normal screen
Press MENU.

Adjusting the Projection TV

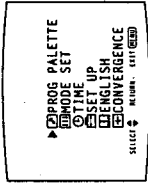
Setting SPEAKER — MAIN or CENTER

Follow these instructions to set SPEAKER to "CENTER" when you connect an audio system (p.19), and to "MAIN" when you want to listen to the sound from the projection TV speakers.

Remote Commander

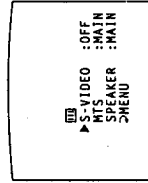


1 Press MENU.
The main menu appears.



2 Press AV WINDOW +/- until the cursor points to "MODE SET."

3 Press RETURN.
The mode set menu appears.



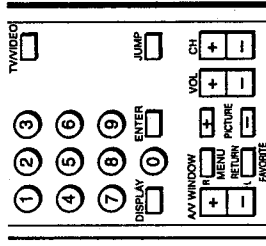
4 Press AV WINDOW +/- until the cursor points to "SPEAKER."

Setting channel captions — CH CAPTION

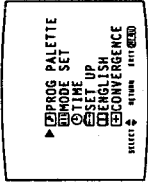
Follow these instructions to caption each channel number display with a name, for instance, the television station call letters. (You can set up to four letters or numbers).

Example: Caption channel 15 as "NBC."

Remote Commander

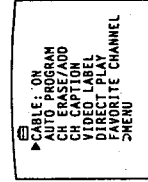


1 Press MENU.
The main menu appears.



2 Press AV WINDOW +/- until the cursor points to "SET UP."

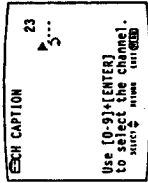
3 Press RETURN.
The set up menu appears.



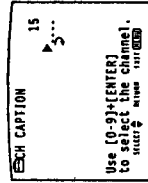
4 Press AV WINDOW +/- until the cursor points to "CH CAPTION."

Customizing the Screen Display

5 Press RETURN.
The CH CAPTION screen appears.

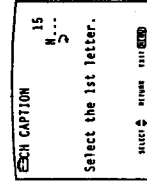


6 Press CH +/-, or press 1, 5 and ENTER to set channel "15."



7 Press RETURN.
The first caption space turns red.

8 Press AV WINDOW +/- to select "N."
Each time you press AV WINDOW +/-, "0" - "9," "A" - "Z," "8," "1," "2," and "-" (blank space) appear in sequence.



9 Press RETURN.
The second caption space turns red.

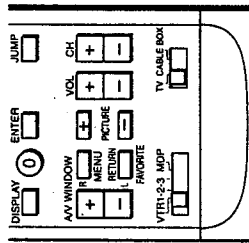
(Continued)

Customizing the Screen Display

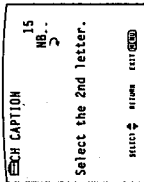
Setting channel captions – CH CAPTION

(Cont'd. from prev. page)

Remote Commander

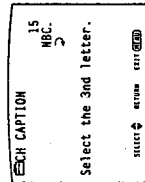


10 Press AV WINDOW +/- to select "B."



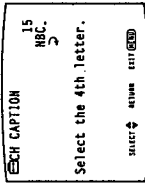
11 Press RETURN.
The third caption space turns red.

12 Press AV WINDOW +/- to select "C."



13 Press RETURN.
The fourth caption space turns red.

14 Press AV WINDOW +/- to select a blank space.



15 Press RETURN.
The setting is complete.
When you select or display the channel number, the channel caption also appears.

To caption more channels
Repeat steps 6 – 15.

To erase unnecessary captions
Display the CH CAPTION screen, select the channel with the caption you want to erase, and select blank spaces for the channel caption; then press RETURN.
The caption for that channel is erased.

To return to the previous menu
Press AV WINDOW +/- until the cursor points to "MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU.

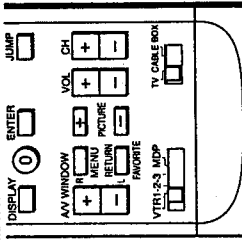
Note
You can set up to 32 channel captions. If the memory is full, "The memory is full, sorry" appears on the screen. Erase any unnecessary captions, and begin again.

Setting VIDEO LABEL

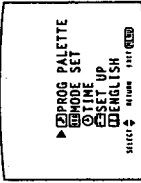
Follow these instructions to label each input mode, in order to identify the equipment connected to each input terminal.

Example: Label VIDEO 1 IN as "VHS."

Remote Commander

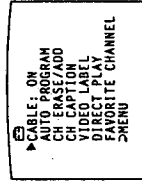


1 Press MENU.
The main menu appears.



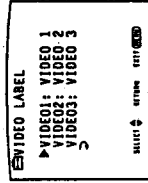
2 Press AV WINDOW +/- until the cursor points to "SET UP."

3 Press RETURN.
The set up menu appears.



4 Press AV WINDOW +/- until the cursor points to "VIDEO LABEL."

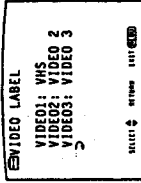
5 Press RETURN.
The VIDEO LABEL screen appears.



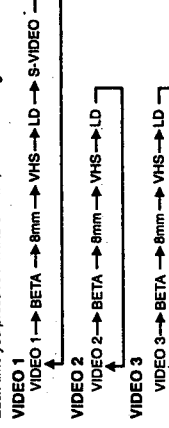
6 Press AV WINDOW +/- until the cursor points to the input mode you want to label. (In this case, the cursor is already pointing to "VIDEO 1.")

7 Press RETURN.
The label display turns red.

8 Press AV WINDOW +/- to select "VHS."



Each time you press AV WINDOW +/-, the label changes:



9 Press RETURN.
The setting is complete.
When you select or display the video mode, the video label appears.

To label other input modes
Repeat steps 6 – 9.

To change a label
Same as above.

To return to the previous menu
Press AV WINDOW +/- until the cursor points to "MENU."

Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU.

Using Timer-Activated Functions

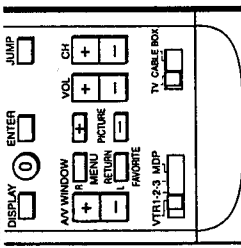
Setting DAYLIGHT SAVING

If you live in an area that uses daylight savings time, set DAYLIGHT SAVING to "YES" or "NO" depending on the season, before setting the current time. At the next daylight savings date, you will be able to automatically adjust all the time-related settings (CURRENT TIME, ON/OFF TIMER and CHANNEL BLOCK) simply by changing the DAYLIGHT SAVING setting.

When setting DAYLIGHT SAVING:

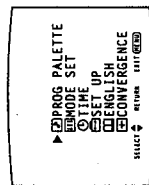
- After the first Sunday in April (spring daylight savings) Set to "YES" before setting the current time. Then, on the last Sunday in October (fall daylight savings), set to "NO."
- All the time-related settings automatically move one hour back.
- After the last Sunday in October (fall daylight savings) Set to "NO" before setting the current time. Then, on the first Sunday in April (spring daylight savings), set to "YES."
- All the time-related settings automatically move one hour ahead.

Remote Commander



Follow these instructions to set DAYLIGHT SAVING to "YES" or "NO."

- Press MENU.
The main menu appears.



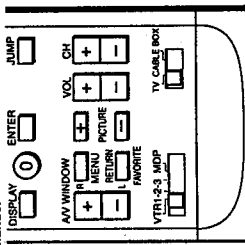
- Press AV WINDOW +/- until the cursor points to "TIME."

Setting the clock — CURRENT TIME SET

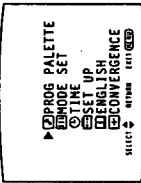
Follow these instructions to set the current time. The correct current time must be set in order to use the other time-related functions (DAYLIGHT SAVING, ON/OFF TIMER, CHANNEL BLOCK).

Example: Set the time to 3:15 PM, Monday.

Remote Commander

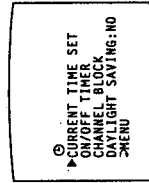


- Press MENU.
The main menu appears.

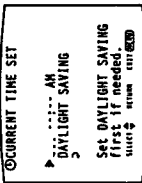


- Press AV WINDOW +/- until the cursor points to "TIME."

- Press RETURN.
The time menu appears, and the cursor points to "CURRENT TIME SET."



- Press RETURN again.
The CURRENT TIME SET screen appears, with a reminder to set DAYLIGHT SAVING.



If you do not need to set DAYLIGHT SAVING, press RETURN and continue from step 5.

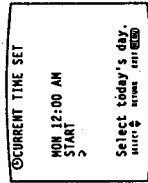
To set daylight saving

- Press AV WINDOW +/- until the cursor points to "DAYLIGHT SAVING."
- Press RETURN.
The time menu appears, and the cursor points to "DAYLIGHT SAVING."
- Press RETURN.
- Press AV WINDOW +/- to select "YES" or "NO."
- Press RETURN.
The setting is complete.

To set the time, press AV WINDOW +/- until the cursor points to "CURRENT TIME SET"; press RETURN, then continue from step 5.

- Press RETURN.
The CURRENT TIME SET screen appears, and the "SUN" display appears (red).

- Press AV WINDOW +/- to select "MON."
Each time you press AV WINDOW +/-, the day changes consecutively.



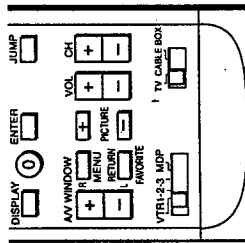
(Continued)

Using Timer-Activated Functions

Setting the clock — CURRENT TIME SET

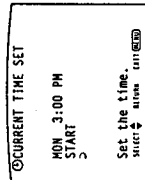
(Cont'd. from prev. page)

Remote Commander



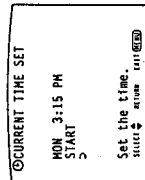
7 Press RETURN.
The hour and am/pm displays turn red.

8 Press AV WINDOW +/- to set "3:00PM."
Each time you press AV WINDOW +/-, the hour changes in sequence beginning with "12:00AM."



9 Press RETURN.
The minute display turns red.

10 Press AV WINDOW +/- to select "15" (minutes).
Each time you press AV WINDOW +/-, the minutes change in sequence.



11 Press RETURN.
The cursor points to "START."

12 Check the actual time, and press RETURN to start the clock.
The setting is complete.

To reset the time
Display the CURRENT TIME SET screen and repeat steps 5 - 12.

To display the current time
Press DISPLAY.

To return to the previous menu
Press AV WINDOW +/- until the cursor points to "MENU."
Then press RETURN.

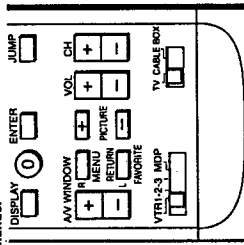
To return to the main menu
Repeat the above, until you reach the main menu.
To return to the normal screen.
Press MENU.

Setting the ON/OFF TIMER

Follow these instructions to make the program of your choice appear on the screen at a specified time.

Example: Set the timer to turn on the projection TV every Monday through Friday at 1:30 AM for 3 hours, on channel 8, as PROGRAM 1. (You can set up to three programs.)

Remote Commander

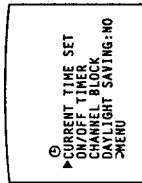


1 Press MENU.
The main menu appears.



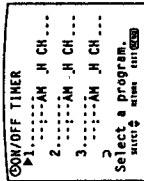
2 Press AV WINDOW +/- until the cursor points to "TIME."

3 Press RETURN.
The time menu appears.



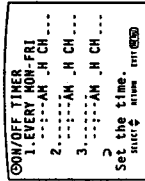
4 Press AV WINDOW +/- until the cursor points to "ON/OFF TIMER."

5 Press RETURN.
The ON/OFF TIMER screen appears, and the cursor points to "1."

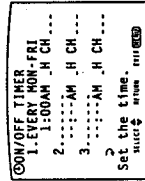


6 To set program 1, press RETURN.
(To set program 2 or 3, press AV WINDOW +/- until the cursor points to that program; then press RETURN.)
The day input space turns red.

7 Press AV WINDOW +/- to select "EVERY MON-FRI"; then press RETURN.
Each time you press AV WINDOW +/-, the days of the week change as shown in Fig. 1 (p. 61).



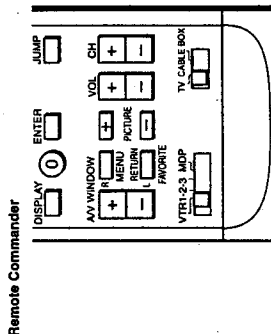
8 Press AV WINDOW +/- to select "1:00AM"; then press RETURN.
Each time you press AV WINDOW +/-, the hour changes in sequence.



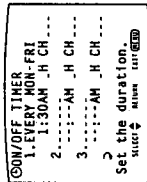
(Continued)

Using Timer-Activated Functions

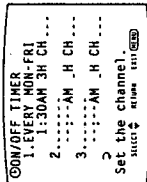
Setting the ON-OFF TIMER (Cont'd from prev. page)



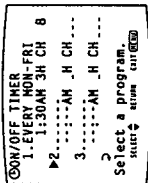
9 Press **AV WINDOW +/-** to select "30" (minutes); then press **RETURN**.
Each time you press **AV WINDOW +/-**, the minutes change in sequence.



10 Press **AV WINDOW +/-** to select "3" (hour duration); then press **RETURN**.
Each time you press **AV WINDOW +/-**, the duration changes from "1" - "6" in sequence.



11 Press **AV WINDOW +/-** to select "8" (channel); then press **RETURN**.
The **TIMER/STAND BY** lamp lights, indicating that the setting is complete.
Each time you press **AV WINDOW +/-**, the channel number changes from "1" - "125" in sequence.



The display **"TIMER WILL BE OFF"** appears on the screen one minute before the timer duration ends.

To set program 2 or 3.
Press **RETURN** and repeat steps 6 - 11.

To erase an **ON/OFF TIMER** setting
Display the **ON/OFF TIMER** screen, select the setting you want to erase, and select a blank space for the day.
The **ON/OFF TIMER** setting is erased.

To enter a new **ON/OFF TIMER** setting
Display the **ON/OFF TIMER** screen and repeat steps 6 - 11.

To return to the previous menu
Press **AV WINDOW +/-** until the cursor points to " > MENU".
Then press **RETURN**.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen.
Press **MENU**.

Note
If you unplug the projection TV or a power failure occurs, both the clock and timer settings will be erased. Reset the current time; then set the timer.

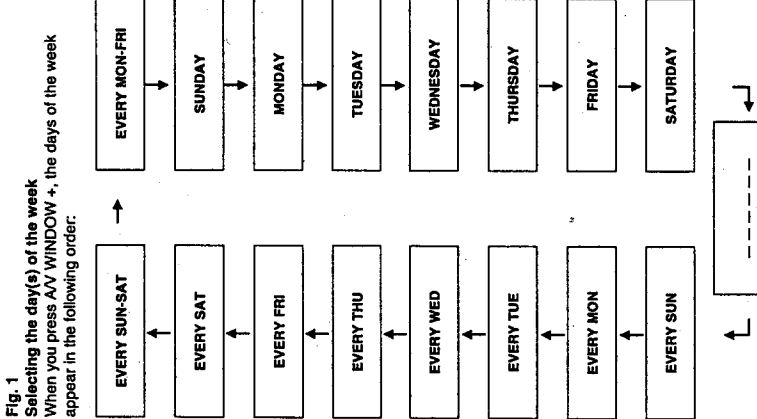


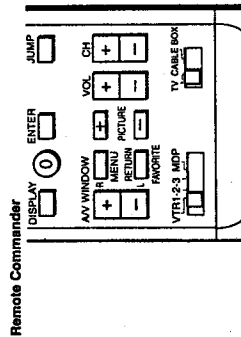
Fig. 1
Selecting the day(s) of the week
When you press **AV WINDOW +/-**, the days of the week appear in the following order:

Using Timer-Activated Functions

Setting CHANNEL BLOCK

Follow these instructions to prevent a channel from appearing on the screen during the time that you specify. You can use this function to prevent children from watching unsuitable programs.

Example: Set CHANNEL BLOCK every Saturday at 4:30 PM for 1 hour, on Channel 12.



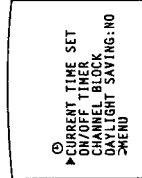
Note
If you have not set the current time, the "CHANNEL BLOCK" display is shaded and cannot be selected.

1 Press MENU.
The main menu appears.



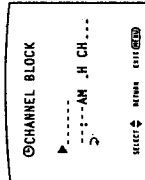
2 Press AV WINDOW +/- until the cursor points to "TIME."

3 Press RETURN.
The time menu appears.

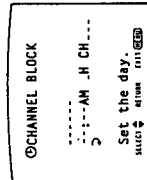


4 Press AV WINDOW +/- until the cursor points to "CHANNEL BLOCK."

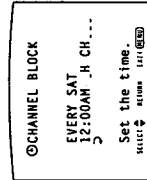
5 Press RETURN.
The CHANNEL BLOCK screen appears, and the cursor points to the day input space.



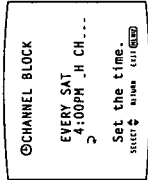
6 Press RETURN.
The day input space turns red.



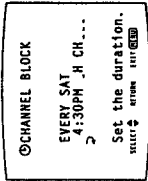
7 Press AV WINDOW +/- to select "EVERY SAT"; then press RETURN.
Each time you press AV WINDOW +/-, the days of the week change as shown in Fig. 1 (p. 61).



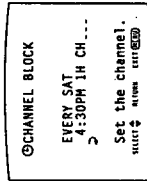
8 Press AV WINDOW +/- to select "4:00PM"; then press RETURN.
Each time you press AV WINDOW +/-, the hour changes in sequence.



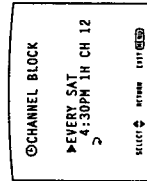
9 Press AV WINDOW +/- to select "30" (minutes); then press RETURN.
Each time you press AV WINDOW +/-, the minutes change in sequence.



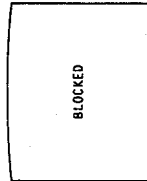
10 Press AV WINDOW +/- to select "1" (hour duration); then press RETURN.
Each time you press AV WINDOW +/-, the duration changes from "1" - "9" in sequence.



11 Press AV WINDOW +/- to select "12" (channel); then press RETURN.
The setting is complete.
Each time you press AV WINDOW +/-, the channel number changes from "1" - "125" in sequence.



At the specified time, "BLOCKED" appears in red on the screen, and the picture of the specified channel is blocked and the sound is muted.



To erase a CHANNEL BLOCK setting
Display the CHANNEL BLOCK screen and select a blank space for the day.
The CHANNEL BLOCK setting is erased.

To enter a new CHANNEL BLOCK setting
Display the CHANNEL BLOCK screen and repeat steps 4 - 10. (You can only set one CHANNEL BLOCK at a time.)

To return to the previous menu
Press AV WINDOW +/- until the cursor points to "MENU".
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen.
Press MENU.

Note
If the ON/OFF TIMER is set for an overlapping time (pp. 59 - 61), the later time setting takes precedence. For example, if CHANNEL BLOCK is set for 2:00 PM and ON/OFF TIMER is set for 3:00 PM, ON/OFF TIMER will take effect at 3:00 PM.

SAFETY CHECK-OUT

(US Model only)

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.

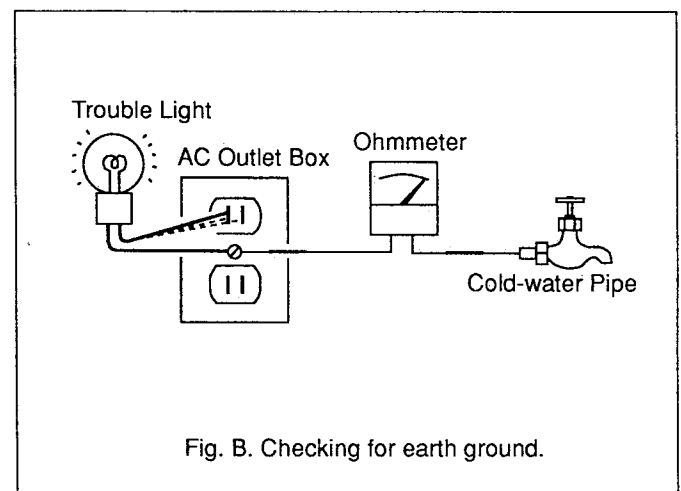
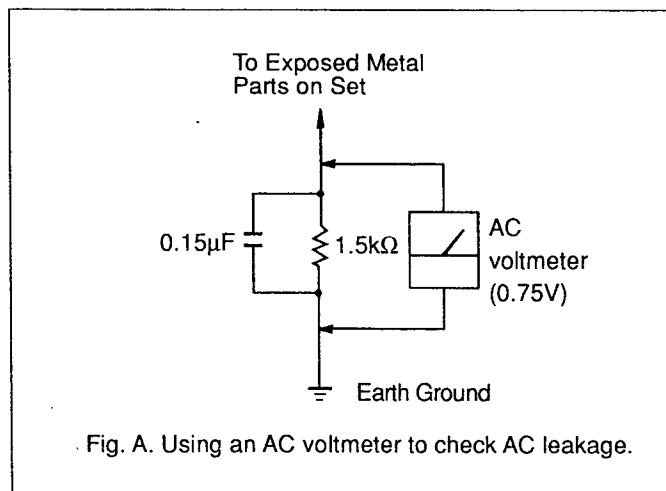
LEAKAGE

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 2V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

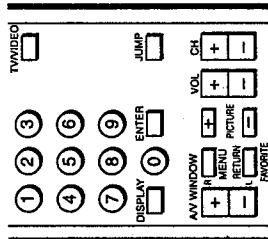
A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a coldwater pipe with an ohmmeter. The reading 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)



Setting FAVORITE CHANNEL

By setting FAVORITE CHANNEL, you can select the channels you use most frequently (up to seven channels) simply by pressing RETURN.

Remote Commander



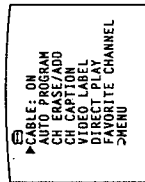
Follow these instructions to set the channels.

1 Press MENU.
The main menu appears.



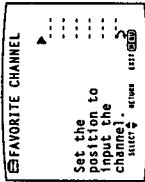
2 Press AV WINDOW +/- until the cursor points to "SET UP."

3 Press RETURN.
The set up menu appears.



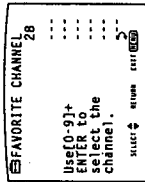
4 Press AV WINDOW +/- until the cursor points to "FAVORITE CHANNEL."

5 Press RETURN.
The FAVORITE CHANNEL screen appears, and the cursor points to the first channel position.



6 Press AV WINDOW +/- to select the channel position; then press RETURN.

7 Press 0 - 9 and ENTER to set the channel number.



8 Press RETURN.
The setting is complete.

To set other channels
Repeat steps 6 - 8.

To erase a favorite channel setting
Press AV WINDOW +/- until the cursor points to the channel number you want to erase; press RETURN, then press 0 and ENTER.

To reset a favorite channel setting
Display the FAVORITE CHANNEL screen and repeat steps 6 - 8.

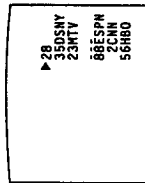
To return to the previous menu
Press AV WINDOW +/- until the cursor points to "> MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.
To return to the normal screen.
Press MENU.

Selecting a favorite channel

After setting the channels, follow these instructions to select the channel you want to watch.

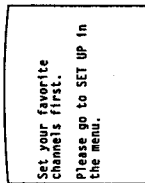
1 Press RETURN.
The FAVORITE CHANNEL display appears.



Note
If you have set channel captions (pp. 53 - 54), the captions appear with the channel numbers.

2 Press AV WINDOW +/- to select the channel you want to watch; then press RETURN.
The channel is selected.

If you press RETURN on the Remote Commander before setting FAVORITE CHANNEL, this screen appears.



Follow steps 1 - 8 to set your favorite channels, and then make the selection.

Using the Pre-Programmed Remote Commander

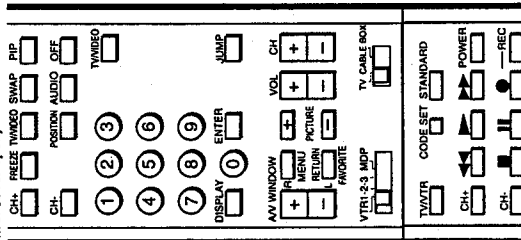
You can operate other video equipment (such as VCRs, video disc players and cable boxes) that have an infrared remote detector with this supplied Remote Commander.

Operating Sony video equipment

Follow these instructions to operate Sony video cassette recorders (Beta, 8 mm and VHS) and video disc players (including multi-disc players).

Remote Commander

(with video control cover open)



1 Set the VTR1-2-3 MDP selector according to the video equipment you want to operate.

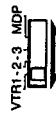


Fig. 2: Video equipment settings

If you want to operate a:	set to:
Beta, ED Beta VCR	VTR 1
8 mm VCR	VTR 2
VHS VCR	VTR 3
Video disc player	MDP

2 Use the video operating buttons to control the connected equipment.

Fig. 3: Operating a VCR (VTR1, 2, 3)

To turn on or off	Press POWER.
To change channels (when watching TV programs through the VCR's tuner)	Press CH +/-.
To record	Press ● and REC simultaneously.
To play	Press ►.
To stop	Press ■.
To fast forward	Press ►►.
To rewind the tape	Press ◄◄.
To pause	Press II.
	To resume normal playback, press again.
To search the picture forward and backward	Keep pressing ►►► or ◄◄◄ during playback.
	To resume normal playback, release the button.
To change input mode	Press TV/ATR.

Fig. 4: Operating a Video Disc Player (MDP)

To turn on or off	Press POWER.
To play	Press ►.
To stop	Press ■.
To pause	Press II.
	To resume normal playback, press again.
	Note
	This function is effective only for CAV (standard-play disc). With CLV (extended-play disc), the projection TV goes off (standby mode) if you press II.
To search the picture forward and backward	Keep pressing ►►► or ◄◄◄ during playback.
	To resume normal playback, release the button.

Notes

- If the video equipment does not have a certain function, the corresponding button on this Remote Commander will not operate.
- If you set another manufacturer's code to a VTR1-2-3 MDP selector position (pp. 68 - 69), you must also set the Sony code to operate Sony equipment.

Caution

When you replace the batteries, do so within approximately 30 minutes. Otherwise the settings you made under the Pre-Programmed function (pp. 68 - 70) may be erased.

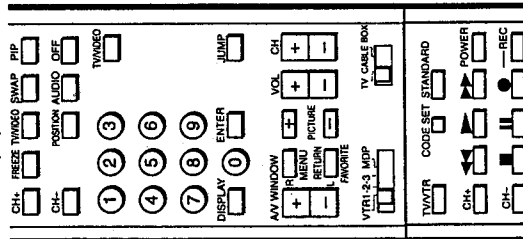
Using the Pre-Programmed Remote Commander

Operating non-Sony or Sony video equipment

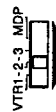
Follow these instructions to set the manufacturer's code, which will enable you to operate non-Sony and Sony video equipment with the pre-programmed Remote Commander.

Example: Operate an RCA video cassette recorder connected to the VIDEO 2 IN jacks.

Remote Commander
(with video control cover open)



1 Set the VTR1-2-3 MDP selector to VTR2.



Note
To use another manufacturer's equipment besides a Sony VCR, set the selector to a position not being used for your Sony video equipment.

Fig. 5: VCR manufacturer code numbers

MANUFACTURER	CODE
SONY	01, 02, 03
CANON	05
EMERSON	22, 30, 33
FISHER	10, 11, 12, 15
FUNAI	29
GENERAL ELECTRIC	05, 08
GOLDSTAR	25
HITACHI	07, 08, 36
JVC	16, 35
MAGNAVOX	05, 06, 09
MITSUBISHI	18, 19, 26, 27
MULTITECH	29
NEC	16, 23, 31
PANASONIC	05, 06
PHILCO	05, 06
PHILIPS	05, 06, 09
QUASAR	05, 06
RCA	07, 08
SAMSUNG	24, 32
SANYO	11, 15
SCOTT	21
SHARP	13, 14
SHINTOM	34
SYLVANIA	05, 06, 09
SYMPHONIC	29
TEKNIKA	28, 29
TOSHIBA	20, 21
TOTE VISION	25
ZENITH	17

Fig. 7: Sony Equipment and Code Numbers

SONY EQUIPMENT	CODE
Beta, ED Beta VCR	01
8 mm VCR	02
VHS VCR	03
Video disc player	04

Note

In some rare cases, you may not be able to operate your non-Sony video equipment with the supplied Remote Commander. This is because your equipment may use a code that is not provided with this Remote Commander. In this case, please use the equipment's own remote control unit.

Fig. 6: MDP manufacturer code numbers

MANUFACTURER	CODE
SONY	04
KENWOOD	58
MAGNAVOX	52
MARANZ	54
MITSUBISHI	51
PANASONIC	55
PHILIPS	52
PIONEER	51
RCA	51
SANYO	57
SHARP	56
YAMAHA	53

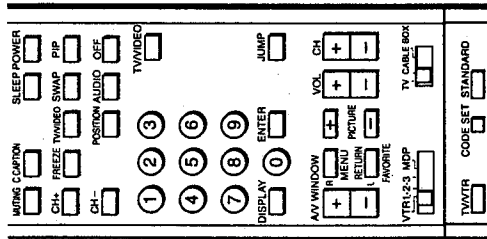
Using the Pre-Programmed Remote Commander

Operating a cable converter box

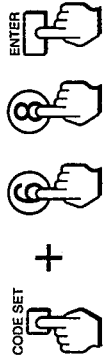
Follow these instructions to set the manufacturer's code, which will enable you to operate a connected cable converter box with the pre-programmed Remote Commander.

Example: Operate a connected Zenith cable converter box.

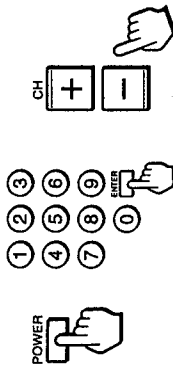
Remote Commander
(with video control cover open)



2 While pressing **CODE SET**, press **6** and **8** (Zenith's code number — see Fig. 8) and **ENTER**.



3 Use the projection TV control buttons (**POWER**, **0-9**, **ENTER** and **CH +/-**) to operate the cable converter box.



To return to the normal screen
Set the **TV/CABLE BOX** selector to **TV**, then use the projection TV control buttons to control the projection TV.

For more details on operating the cable box
Refer to the operating instructions that come with the cable box.

Fig. 8: Cable box manufacturer code numbers

MANUFACTURER	CODE
JERROLD	60, 61, 62, 63, 64, 65
PIONEER	69, 70
SCIENTIFIC ATLANTA	66, 67
TOCOM	71, 72
ZENITH	68

1 Set the **TV/CABLE BOX** selector to **CABLE BOX**.



Notes

- If more than one code number is listed, try entering them one by one, until you come to the correct code for your equipment.
- If you enter a new code number, the code number you previously entered at that setting is erased.
- In some rare cases, your equipment may use a code that is not provided with this Remote Commander and you may not be able to operate your cable converter box with the supplied Remote Commander. In this case, use the equipment's own remote control unit.

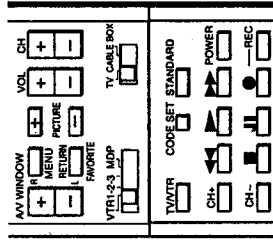
Selecting a VCR mode directly — DIRECT PLAY

Follow these instructions to switch from **TV** to **VCR** mode by simply pressing the **▶** (playback) button on the supplied Remote Commander.

Example: Connect your VCR to the **VIDEO 2 IN** jacks, and set the **VTR1-2-3 MDP** selector to **VTR2**. When you press **▶**, the input mode changes to the **VIDEO 2 IN** jacks. VCR connected to the **VIDEO 2 IN** jacks.

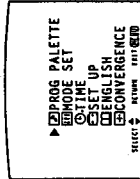
After completing the steps below, the **VTR** selector position is retained in the projection TV's memory.

Remote Commander (with video control cover open)



1 Press **▶**.

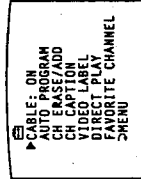
The main menu appears.



2 Press **AV WINDOW +/-** until the cursor points to **"SET UP."**

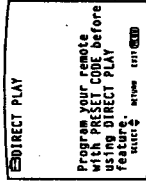
3 Press **RETURN**.

The set up menu appears.



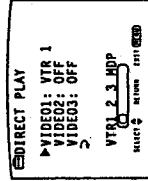
4 Press **AV WINDOW +/-** until the cursor points to **"DIRECT PLAY."**

5 Press **RETURN**.
A message screen appears.



Note
This screen reminds you to set the manufacturer's code, if you have not already done so (pp. 68 - 69).

6 Press **RETURN** again.
The **DIRECT PLAY** screen appears.





7 Press **AV WINDOW +/-** until the cursor points to the video input mode. (When the video equipment is connected to **VIDEO 1 IN**, select **"VIDEO1."**)

8 Press **RETURN**.
The mode display turns red.

(Continued)

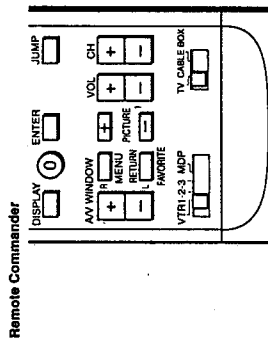
Appendix Troubleshooting

Disturbances in picture and sound can often be eliminated by checking the symptoms and following the suggestions listed here. If the problem still cannot be solved, contact your nearest service facility.

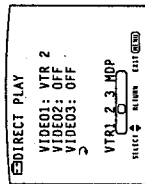
Symptom	Possible causes and remedies
No picture (screen not lit), no sound	<ul style="list-style-type: none"> Make sure POWER is switched on. Check the power cord connection. Check that the TV/VIDEO and VTR1-2-3 MDP controls are set correctly. Make sure that the TV/CABLE BOX selector is set to TV.
Poor or no picture (screen not lit), good sound	<ul style="list-style-type: none"> Adjust the picture using the VIDEO screen (pp. 44 - 47). Check the antenna/cable connections. Adjust the color registration (pp. 24 - 25).
Good picture, no sound	<ul style="list-style-type: none"> Press VOLUME + on the projection TV or VOL. + on the Remote Commander. Press MUTING on the Remote Commander. Check the MTS setting (p. 51). Check that the TV/VIDEO and VTR1-2-3 MDP controls are set correctly. Make sure SPEAKER is set correctly (p. 52).
No color for color programs	<ul style="list-style-type: none"> Check the HUE and COLOR settings (pp. 44 - 45).
Snow and noise only	<ul style="list-style-type: none"> Check that it is an active or correct channel. Check the cable setting. Check antenna/cable connections.
 Dotted lines or stripes	<p>This is often caused by local interference (for example, cars, neon signs and hairdryers). Adjust the telescopic aerial for minimum interference.</p>
 Double images or ghosts	<p>Reflections from nearby mountains or buildings often cause this problem. Connecting a highly directional outdoor antenna or a CATV cable may improve the picture.</p>
Remote control does not operate	<ul style="list-style-type: none"> Check the battery in the Remote Commander.
No picture and/or sound for the connected equipment	<ul style="list-style-type: none"> Check that the TV/VIDEO button is set correctly. Check that the connections are properly made. Check that the power of the connected equipment is turned on. Check that the connected equipment is set correctly.
Try another channel. It could be station trouble.	

Using the Pre-Programmed Remote Commander

Selecting a VCR mode directly - DIRECT PLAY (Cont'd. from prev. page)



9 Press AV WINDOW +/- to select the VTR selector mode you have set on the Remote Commander. (When the VTR1-2-3 MDP selector is set to VTR2, select "VTR 2.") Each time you press AV WINDOW +/-, "VTR 1," "VTR 2," "VTR 3," "MDP" and "OFF" appear in sequence.



10 Press RETURN.
The direct play setting is complete.

To set direct play for other connected video equipment
Repeat steps 7 - 10.

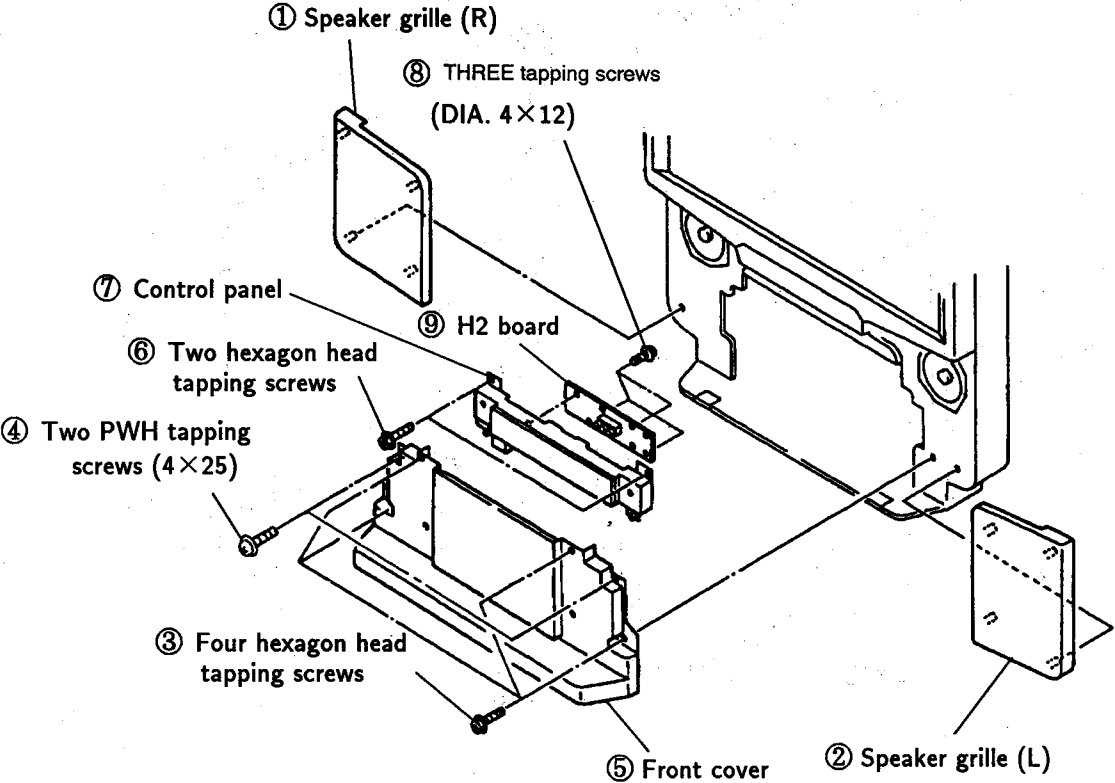
To return to the previous menu
Press AV WINDOW +/- until the cursor points to "MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

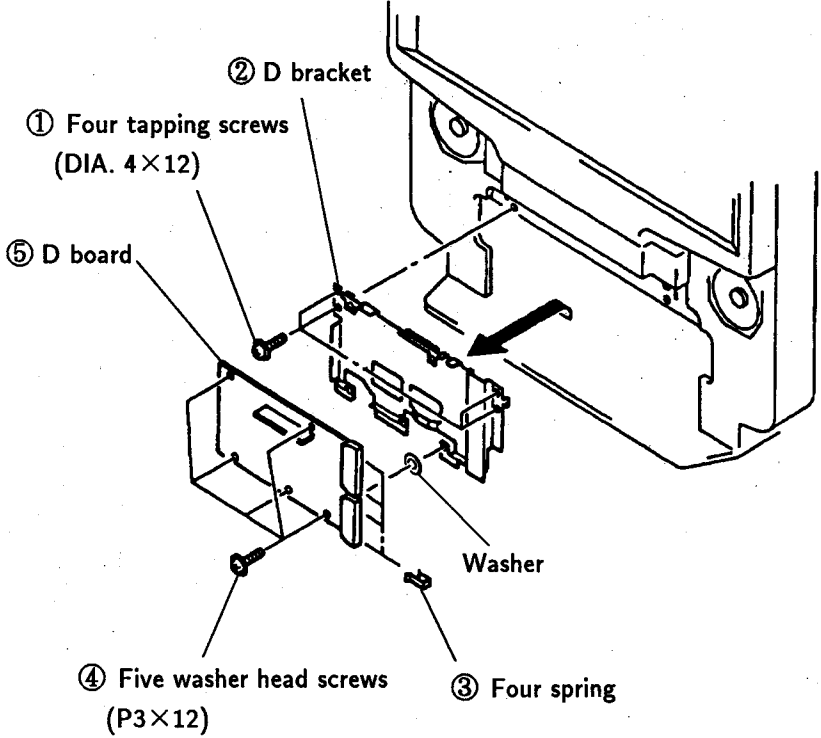
To return to the normal screen.
Press MENU.

SECTION 2 DISASSEMBLY

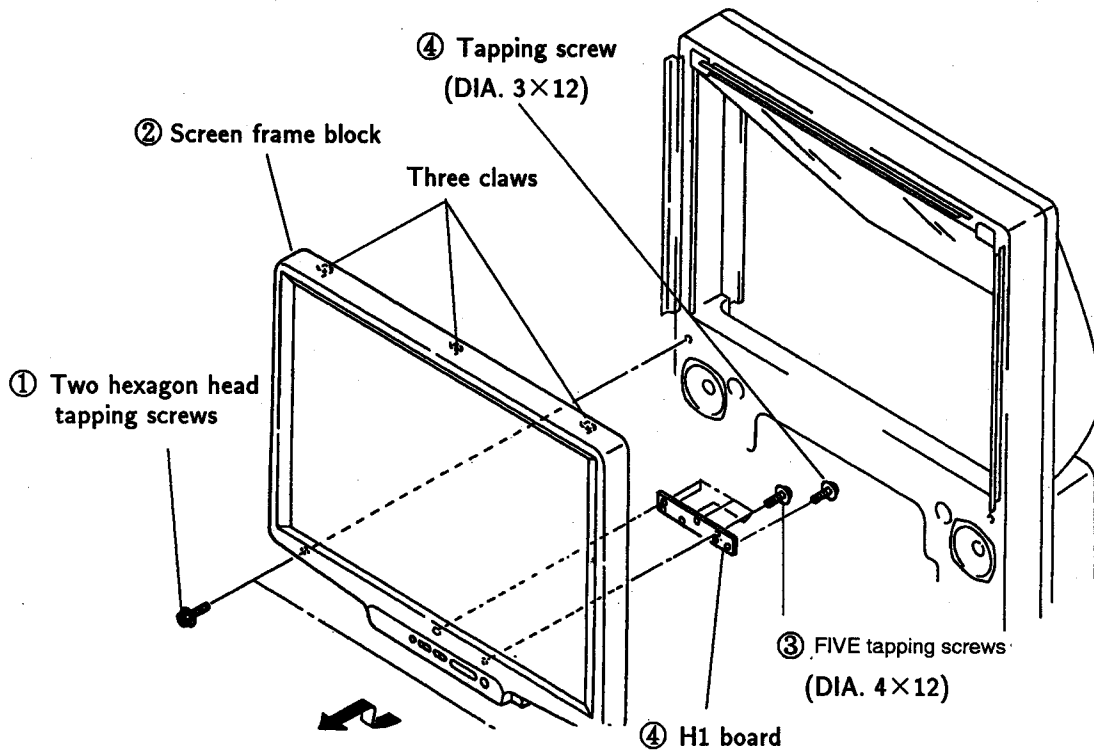
2-1. H2 BOARD REMOVAL



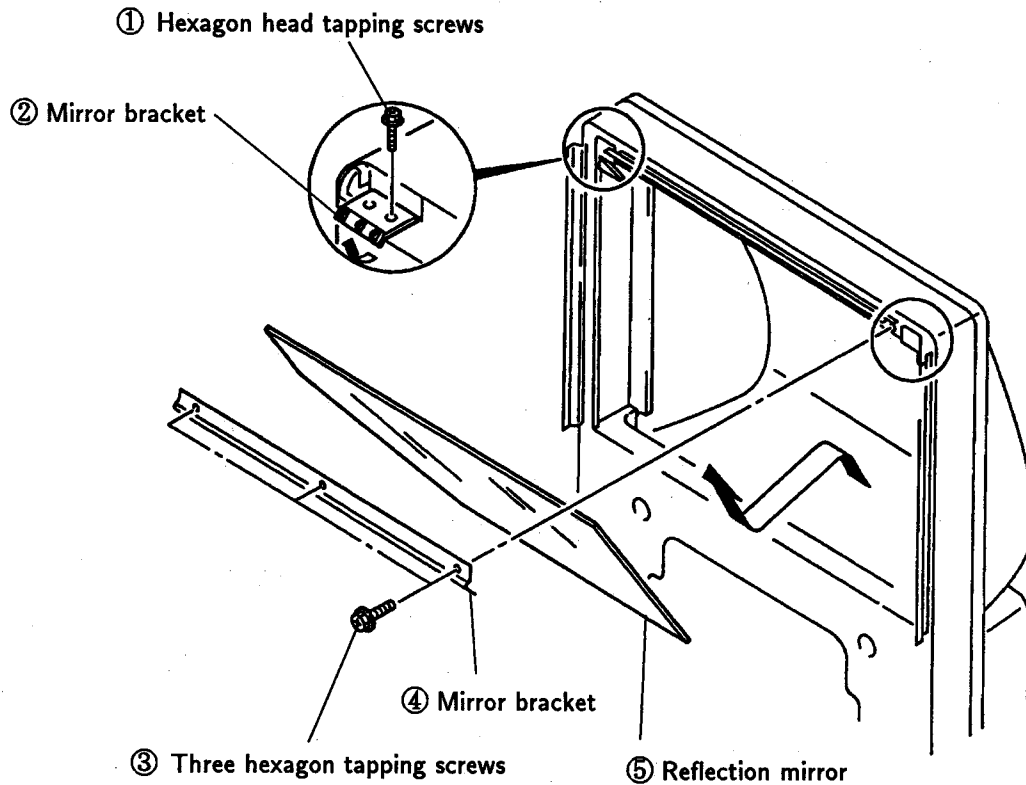
2-2. D BOARD REMOVAL



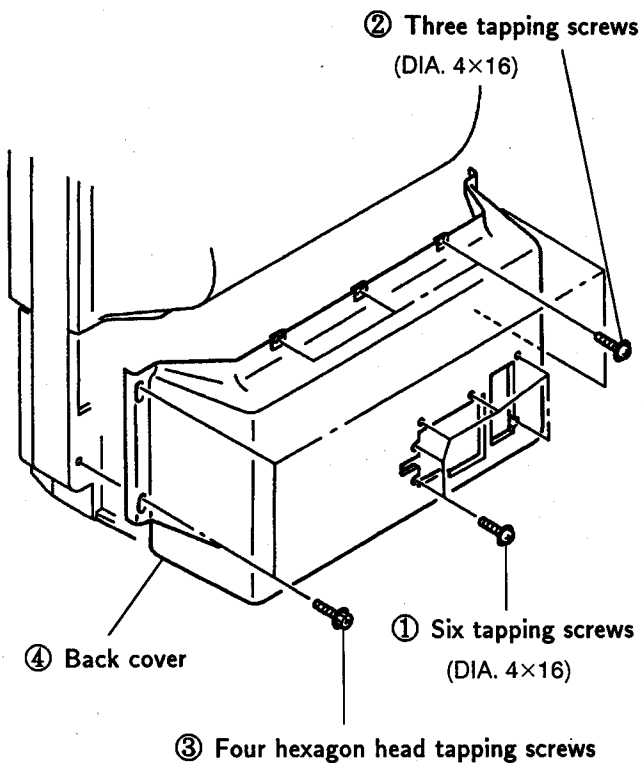
2-3. H1 BOARD REMOVAL



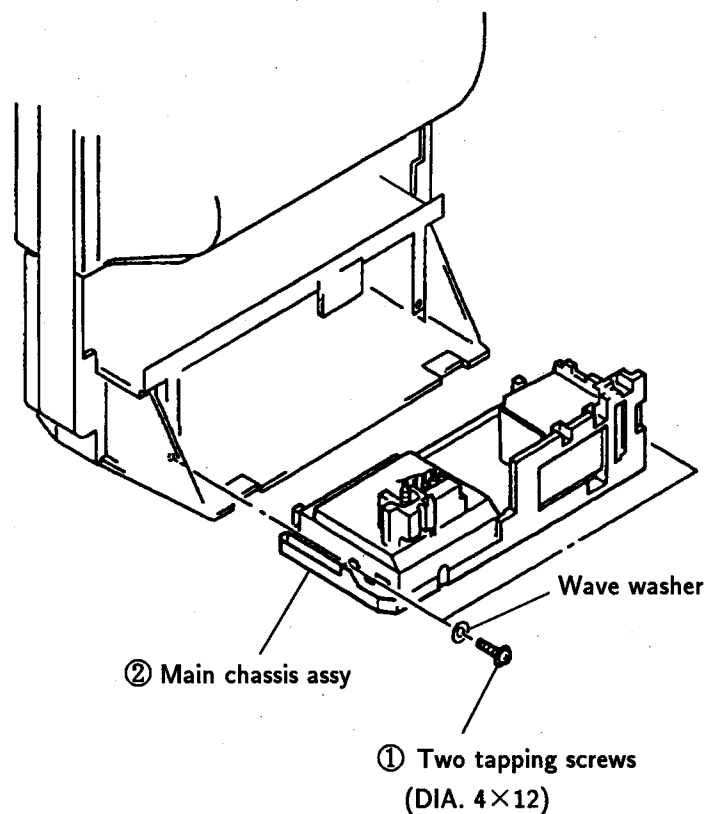
2-4. REFLECTION MIRROR REMOVAL



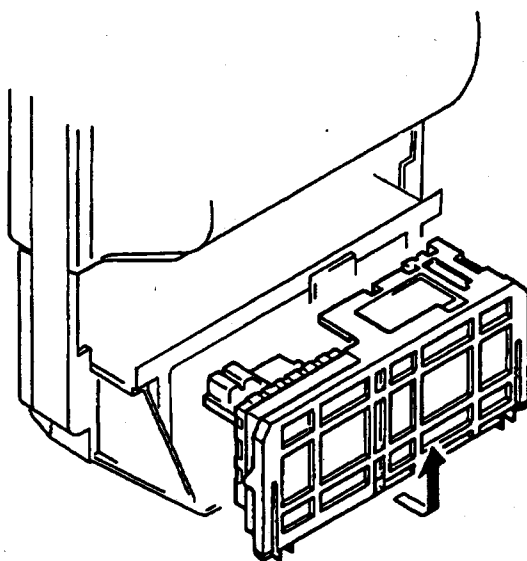
2-5. BACK COVER REMOVAL



2-6. MAIN CHASSIS ASSY REMOVAL



2-7. SERVICE POSITION



NOTES INSERTED IN SERVICE POSITION

Service Position Procedure

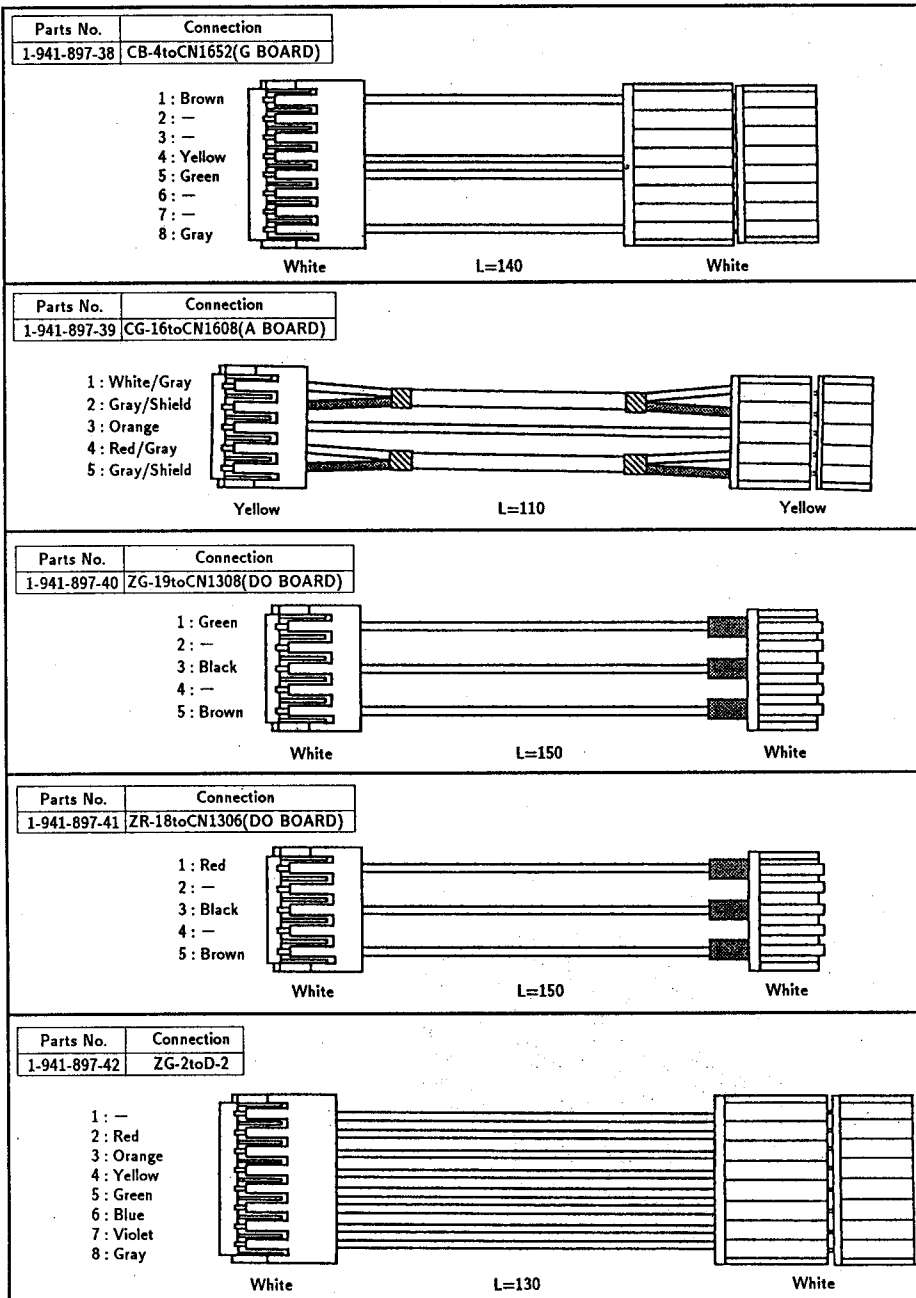
- 1) Remove the path locks where the harness comes into.(MAIN bracket, G shield)
- 2) Remove the following connectors before removing the main bracket.
 ※ HV grounding lead, G shield grounding lead, V-2 connector(V board).
- 3) Remove the main bracket.(Take care as the connector leads linking to the C and Z boards considerably short).
- 4) Before power ON, be sure to connect the connectors removed.
 ※ HV grounding lead, G shield grounding lead.

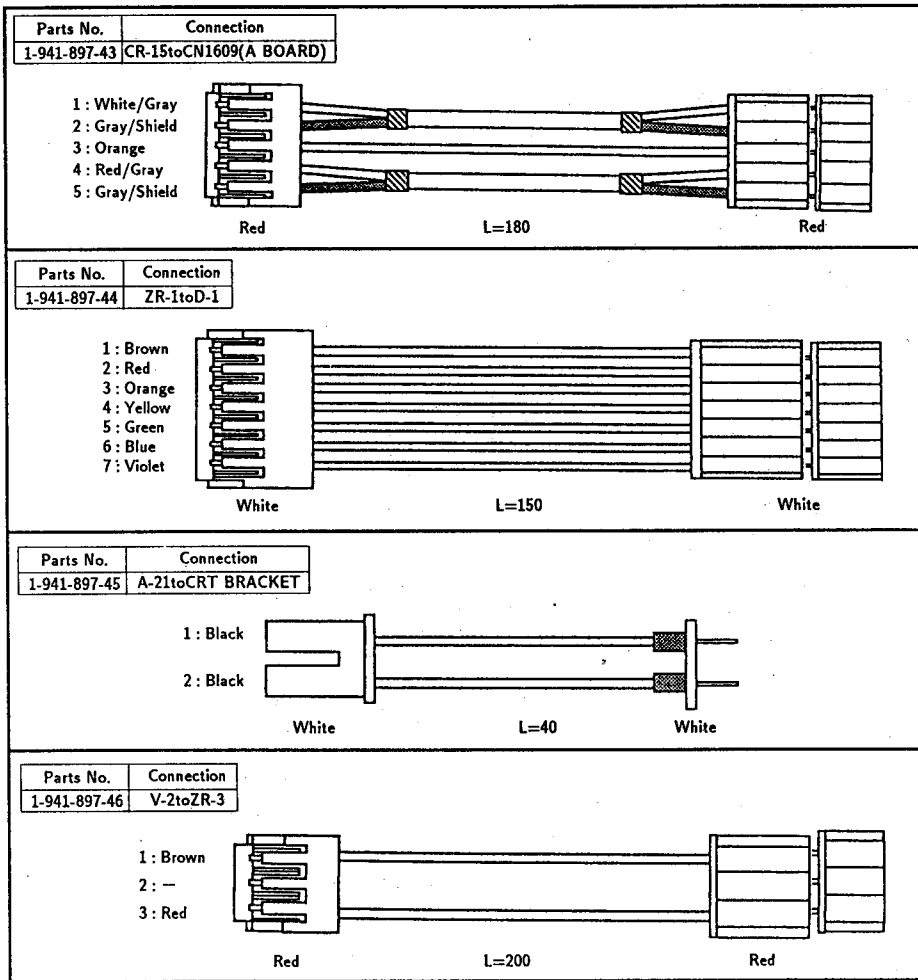
In case that grounding lead(Black) of HV Block is not connected with chassis grounding, it causes arcing of CRT and it is daigerous.

Be sure to connect grounding lead of HV Block with chassis grounding.

CONNECTOR CABLES

※ In order to put the set in the service position, use the extension connector cables below.





2-8. SUB CONNECTOR PANEL REMOVAL

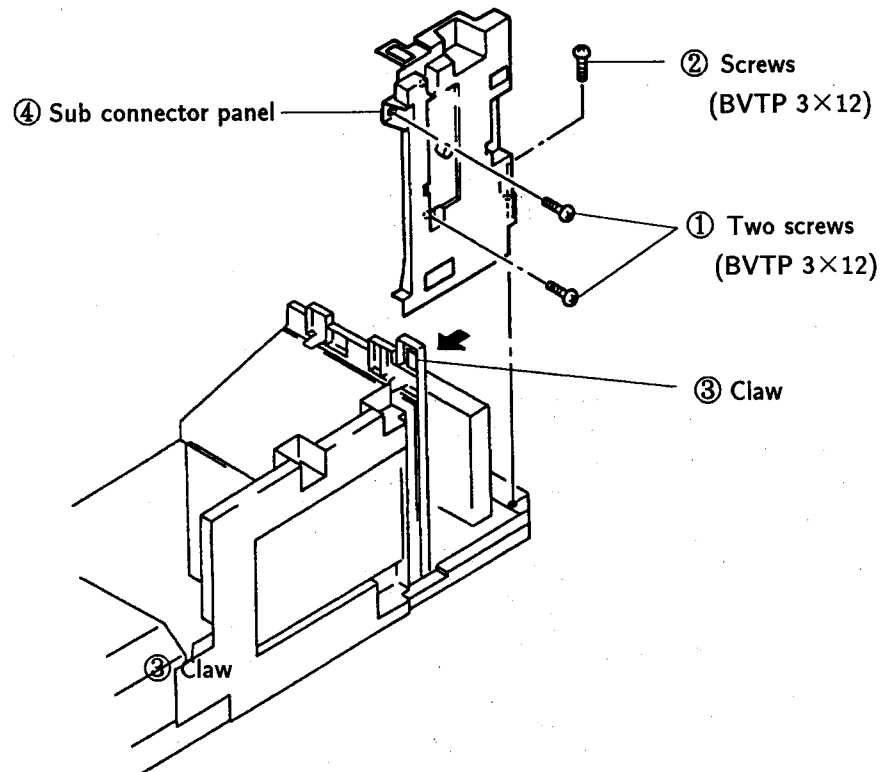
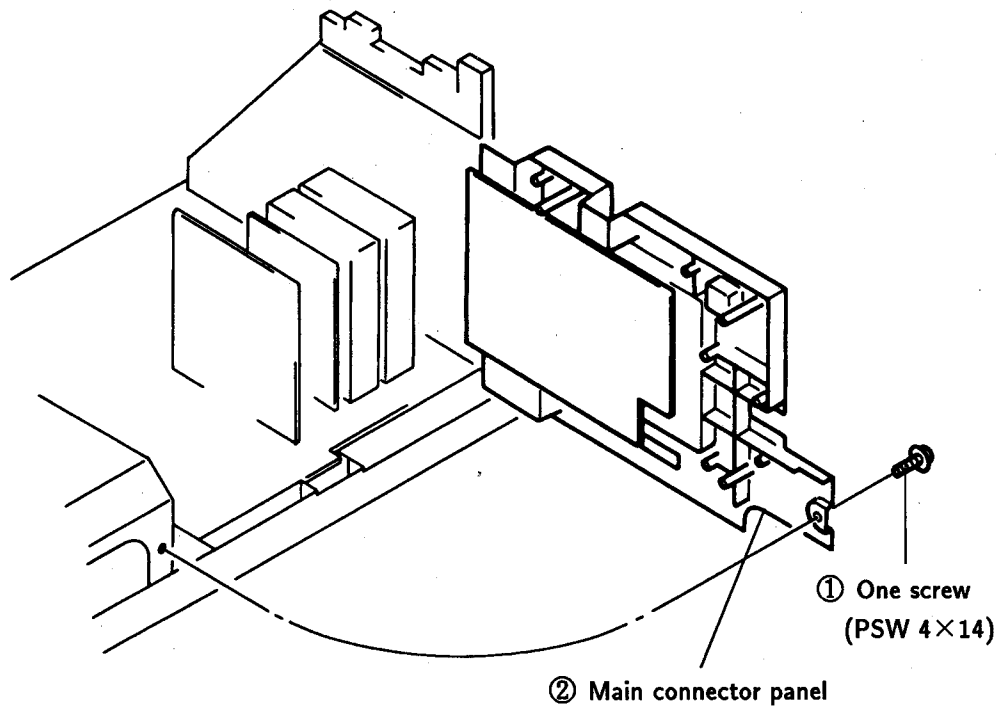


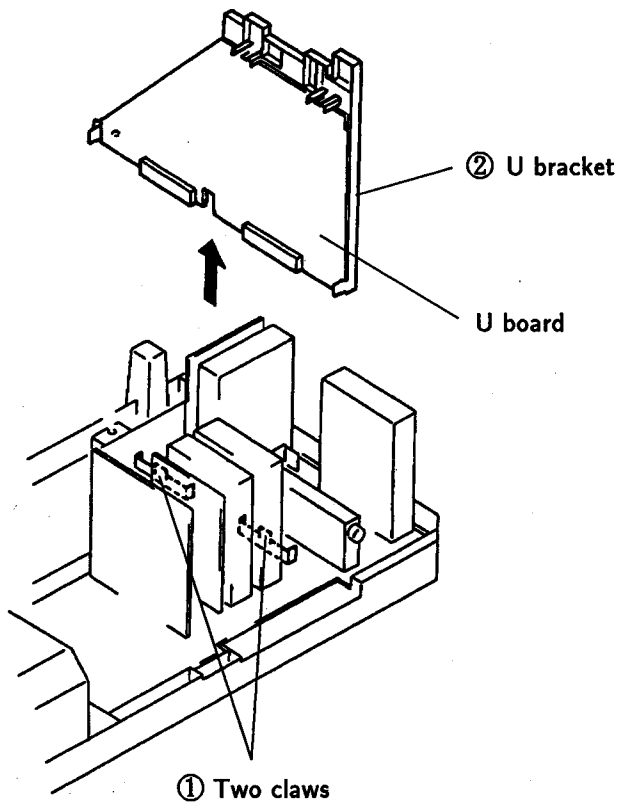
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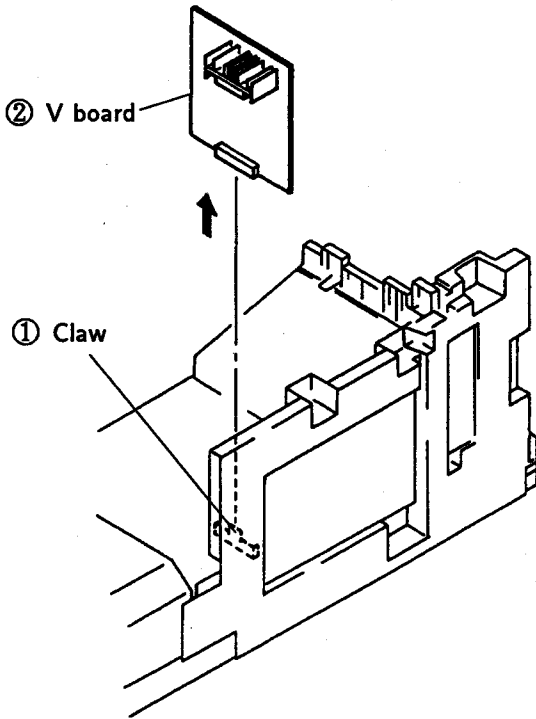
2-9. MAIN CONNECTOR PANEL REMOVAL



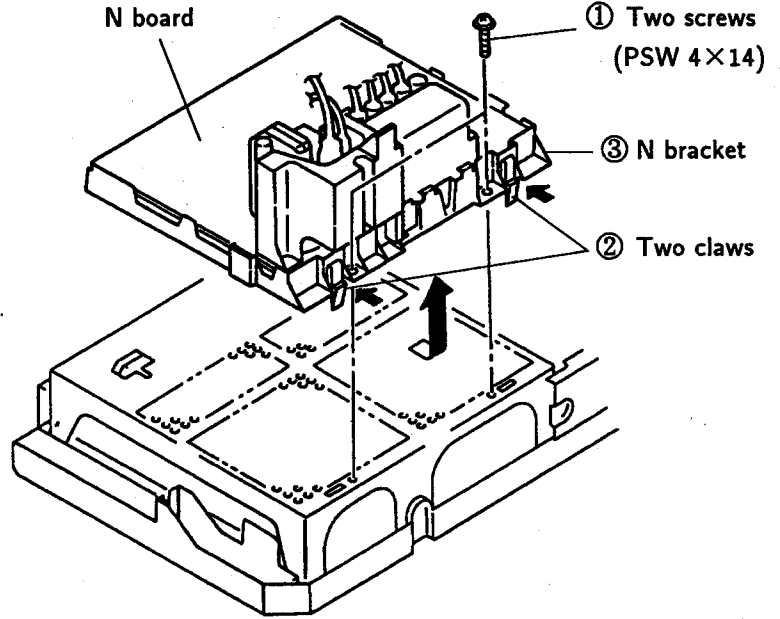
2-10. U BRACKET REMOVAL



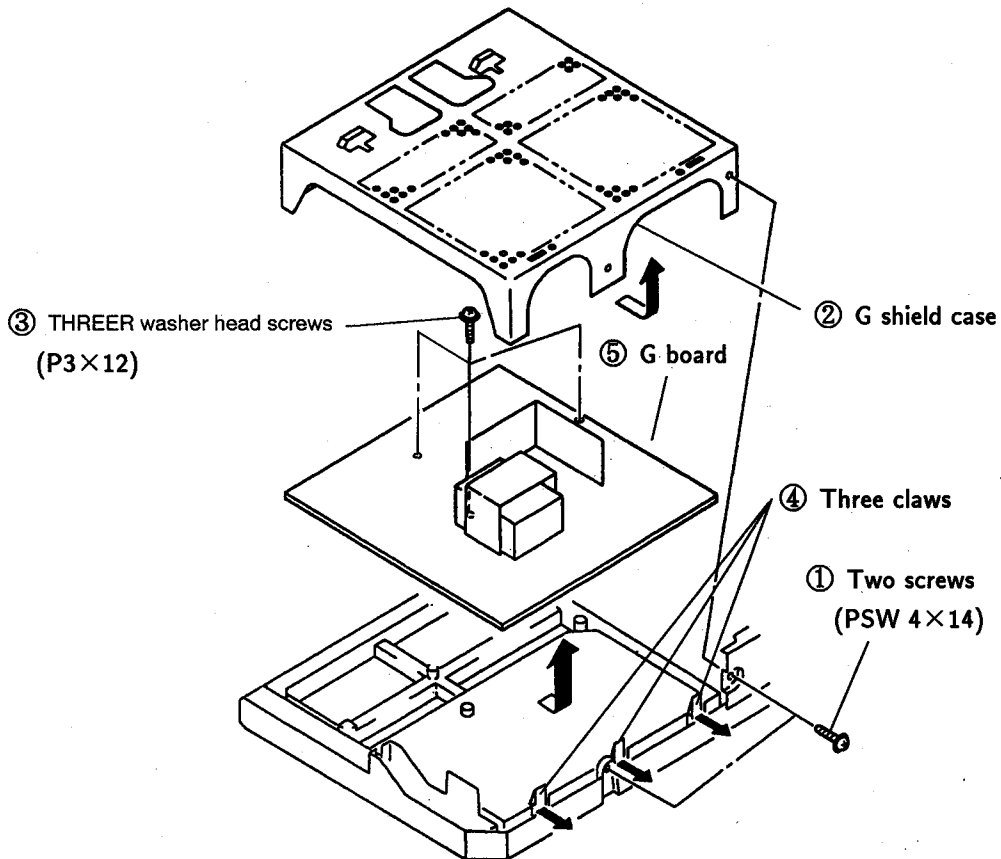
2-11. V BOARD REMOVAL



2-12. N BRACKET REMOVAL

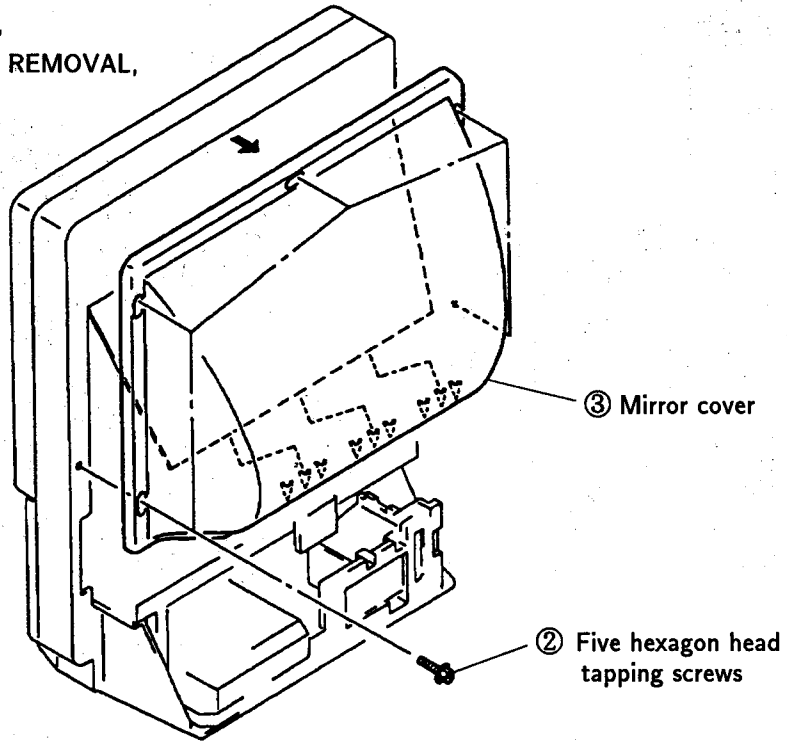


2-13. G BOARD REMOVAL

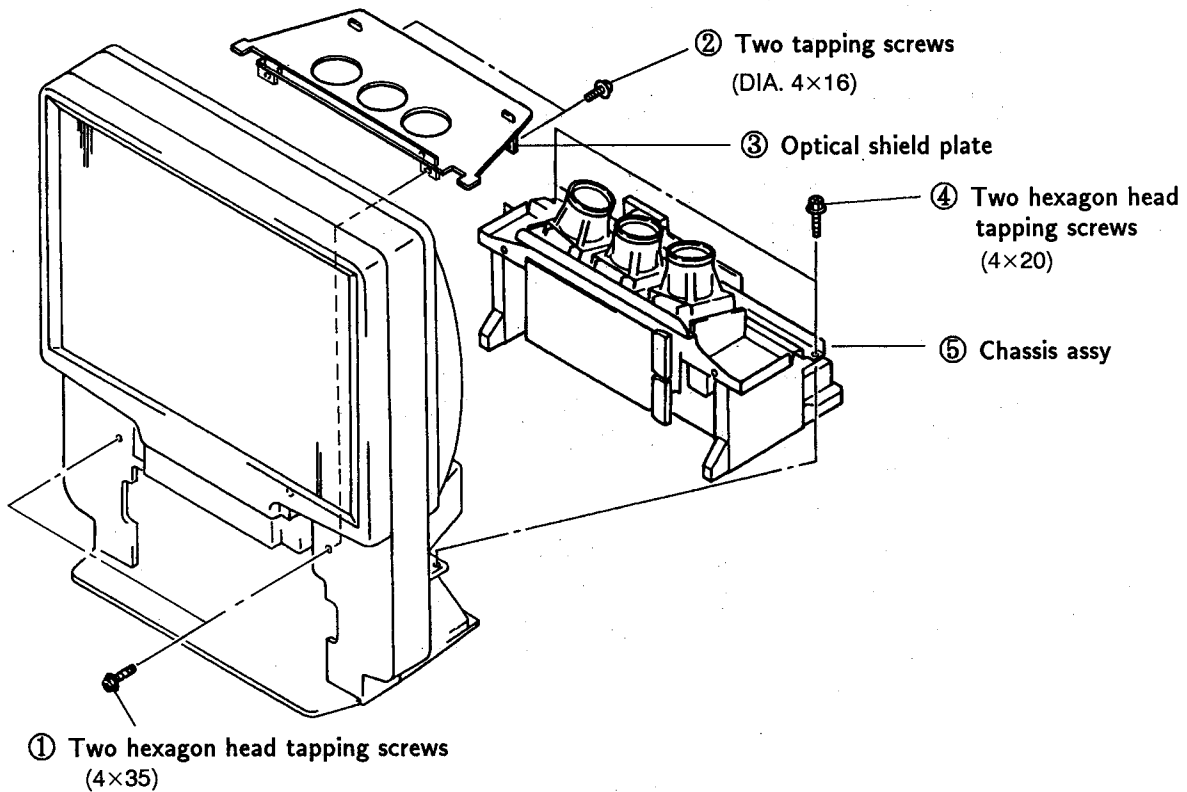


2-14. MIRROR COVER REMOVAL

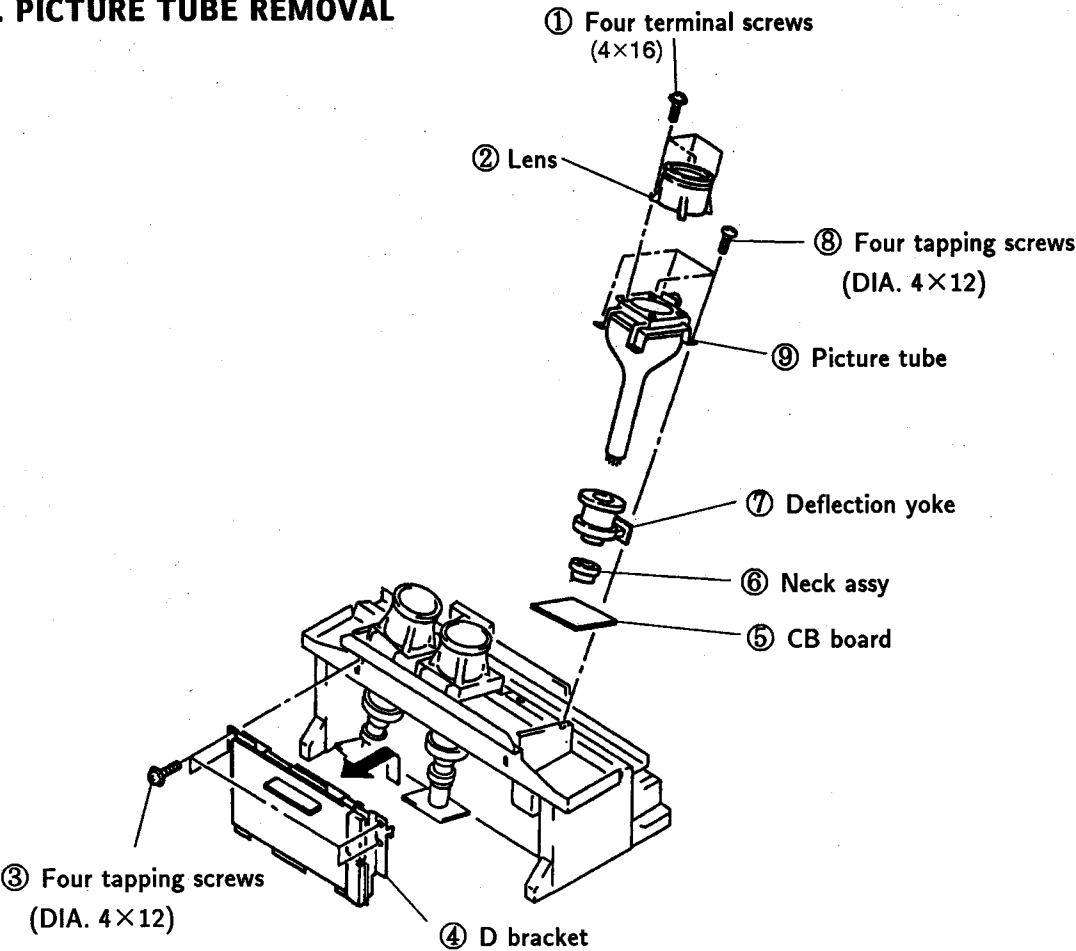
- ① 2-1 H2 BOARD REMOVAL,
- 2-3 H1 BOARD REMOVAL,
- 2-4 REFLECTION MIRROR REMOVAL,



2-15. CHASSIS ASSY REMOVAL

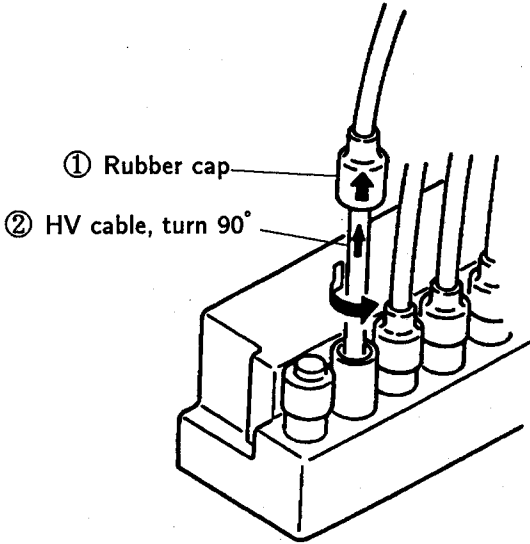


2-16. PICTURE TUBE REMOVAL

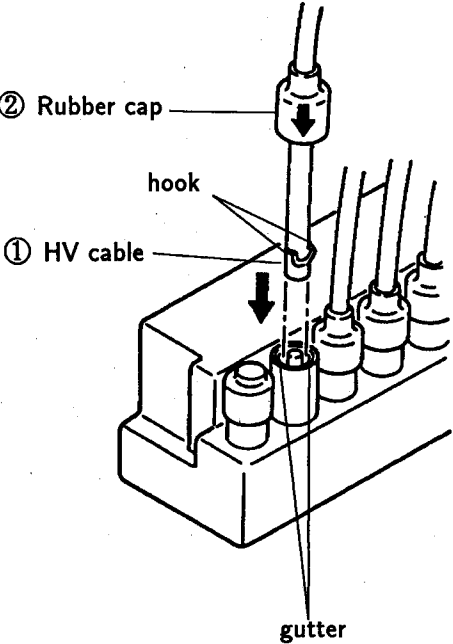


2-17. HIGH-VOLTAGE CABLE INSTALLATION AND REMOVAL

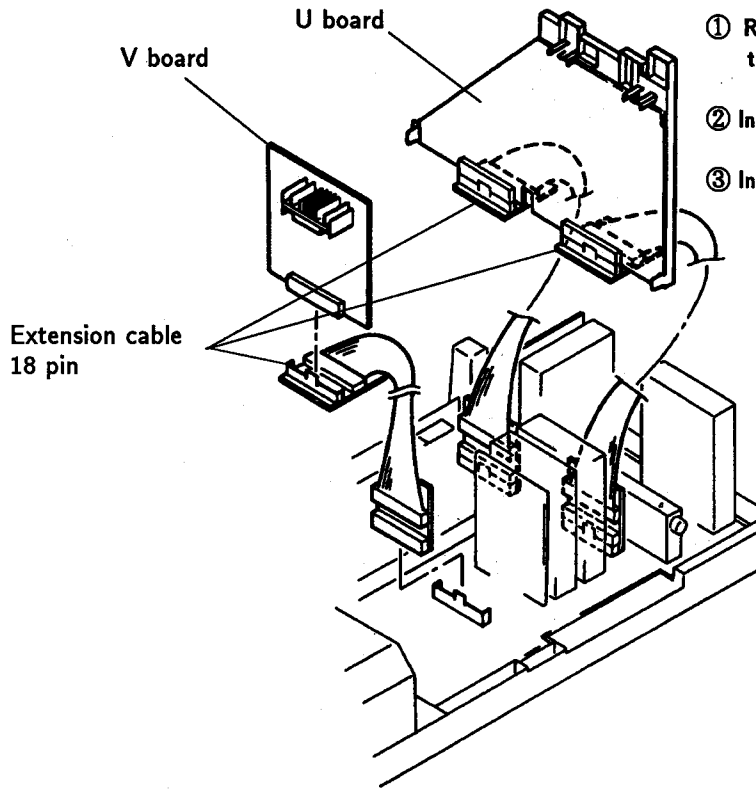
(1) Remover



(2) Installation

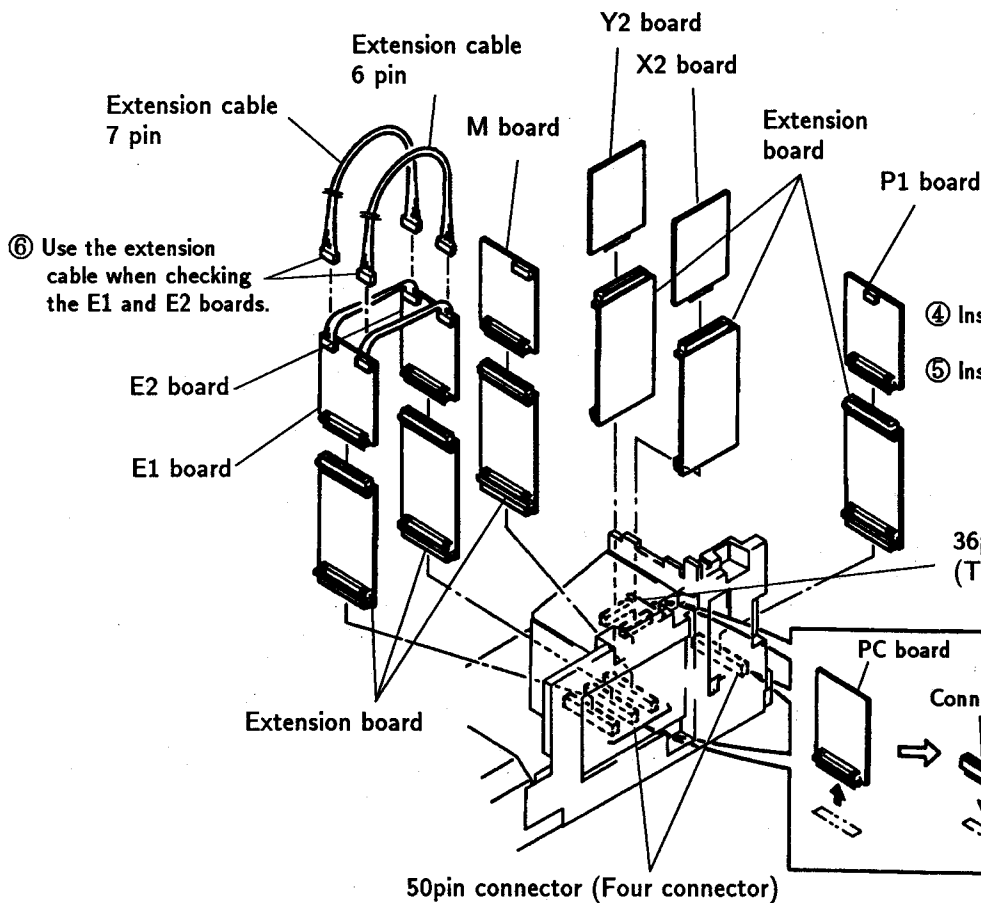


2-18. CONNECTOR CABLE



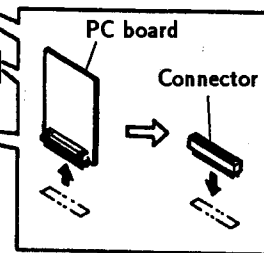
- ① Remove the board from the connector.
- ② Install the extension cable.
- ③ Install the board.

Exterior	
Extension cable	
1-941-891-33	
1-941-891-31	
1-941-891-32	
3-702-558-01	
3-702-557-01	
3-702-561-01	
3-702-560-01	
3-702-559-01	



- ⑥ Use the extension cable when checking the E1 and E2 boards.

- ④ Install the PC board removed.
- ⑤ Install the extension board.

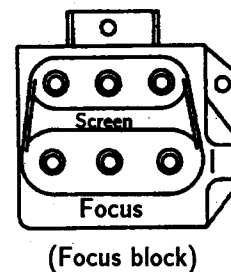
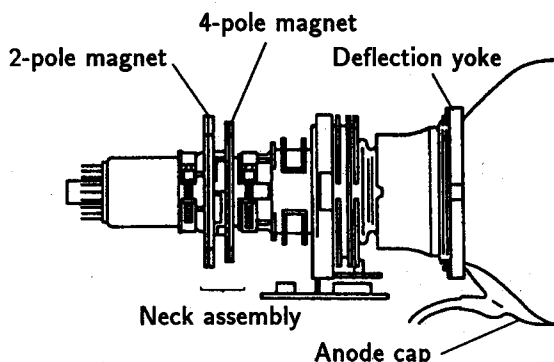


- (1) De-solder the PC board and remove it.
- (2) Solder the connector.

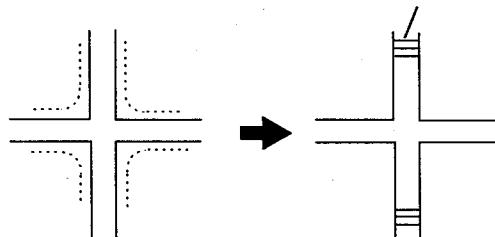
SECTION 3 SET-UP ADJUSTMENTS

3-1. FOCUS LENS ADJUSTMENTS

1. Set the D-board registration variable resistors (VR) to mechanical center.
2. Set the centering magnets (for red, green, and blue) to 0 as shown in the figure.

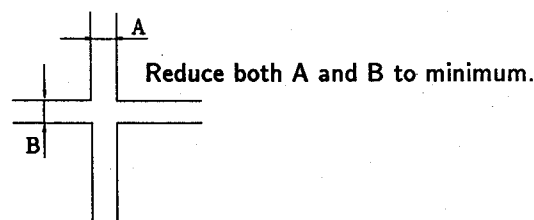


Verify that scanning lines are seen.

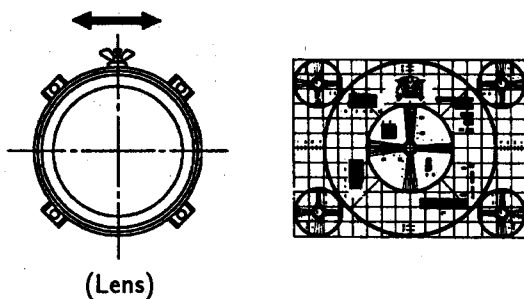


3. Input monoscope signal. Set 50% BRIGHTNESS and minimum PICTURE. Make rough adjustment so that 10IRE of the monoscope signal becomes faintly luminous using the screen VRs.
4. Set PICTURE and BRIGHTNESS maximum. Press the commander menu button. Select CONVERGENCE to display test signal.
5. Enter service mode. Select R OFF of SERVICE MODE to cut off red output. Similarly, select B OFF to cut off blue output.
6. Turn the green lens to eliminate flare of the test signal.

7. Turn the green focus VR in the focus block to adjust green focus to reduce both A and B of the test signal to minimum.



8. Repeat above 6 and 7. Couple of times to improve tracking and obtain an optimum focus. Then tighten the green lens screw.
9. Adjust the red and blue focuses similarly.



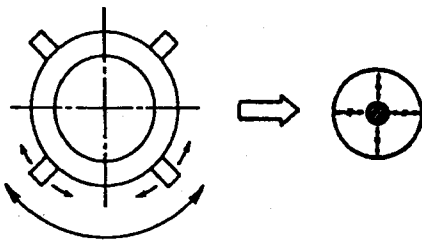
3-2. DEFLECTION YOKE POSITION ADJUSTMENTS

1. Input monoscope signal.
2. Enter service mode. Select R OFF of SERVICE MODE to cut off red output. Similarly, select B OFF to cut off blue output.
3. Loosen the deflection yoke (DY) fitting screws. Tilt the DY to obtain the best horizontal and vertical monoscope patterns.
4. After adjustment, press the DY onto the cathode ray tube (CRT) funnel and tighten the screws.
5. Also adjust DY positions for red and blue outputs in the same way.

3-3. 2-POLE MAGNET ADJUSTMENT

1. Input dot signal.
2. Enter service mode. Select R OFF of SERVICE MODE to cut off red output.
Similarly, select B OFF to cut off blue output.
3. Set PICTURE to maximum. Turn the green focus variable resistor (VR) in the focus block counterclockwise from the just focus to brighten the point in the dot.
4. Adjust the 2-pole magnet to position the bright point at the center of the dot.
5. Adjust the red and blue dots in the same way.

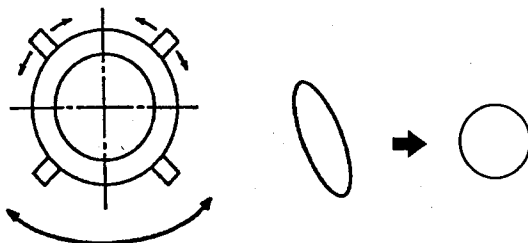
* Use the center dot:red and green
Use the vertical center and left end dot : blue



3-4. 4-POLE MAGNET ADJUSTMENT

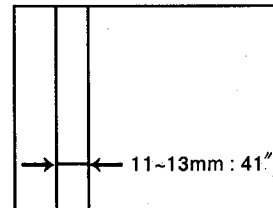
1. Input dot signal.
2. Enter service mode. Select R OFF of SERVICE MODE to cut off red output.
Similarly, select B OFF to cut off blue output.
3. Set PICTURE to maximum. Turn the green focus variable resistor (VR) in the focus block clockwise (counter clockwise : blue) from the just focus until the dot diameter becomes as shown below.
4. Adjust the 2-pole magnet to make the dot perfectly round.
5. Turn the green focus variable resistor to the just focus.
6. Adjust the red and blue dot in the same way.

* Use the center dot : red and green
Use the vertical center and left end dot : blue



3-5. DE-FOCUS ADJUSTMENT (BLUE)

1. Input cross hatch signal.
2. Turn the blue focus variable resistor (VR) in the focus block counter clock wise so that the width of the left end vertical line becomes as shown below.

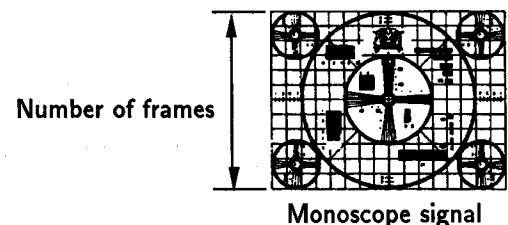


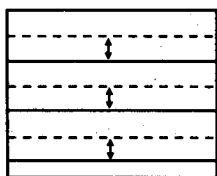
without flare

3-6. GREEN PICTURE ADJUSTMENTS

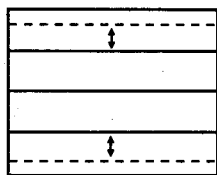
1. Input monoscope signal.
2. Enter service mode. Select R OFF of SERVICE MODE to cut off red output.
Similarly, select B OFF to cut off blue output.
3. Turn RV913 and RV960, the vertical green linearity variable resistors (V.G LIN VRs) on the D-board, to obtain an optimum vertical linearity. Then turn RV911, the vertical green amplitude variable resistor (V.G SIZE VR) to set vertical amplitude to 11.7 frames.

Note: The vertical position indicator of the monoscope signal must be positioned at the center by adjusting RV905, the vertical green center position variable resistor (V.G CENT VR) in advance.

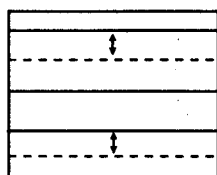





RV905 V.G CENT
(vertical position)

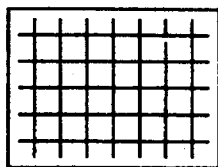



RV911 V.G SIZE
(vertical amplitude)




RV913 V.G LIN
(vertical linearity)

5. Verify that the horizontal lines on the top and bottom of cross-hatched area of the monoscope signal are horizontal and linear.



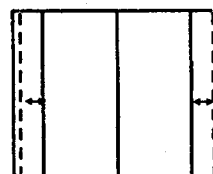
6. Turn RV916, RV964 and RV969, the horizontal green linearity variable resistors (H.G LIN VRs) on the D-board, to obtain an optimum horizontal linearity.

Then turn RV908, the horizontal green amplitude variable resistor (H.G SIZE VR) to set horizontal amplitude to 15.6 frames.

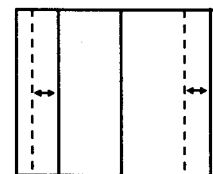
Note: The horizontal position indicator of the monoscope signal must be positioned at the center by adjusting RV902, the horizontal green center position variable resistor (V.G CENT VR) in advance.



Monoscope signal




RV908 H.G SIZE
(horizontal position)




RV916 H.G LIN
(horizontal linearity)

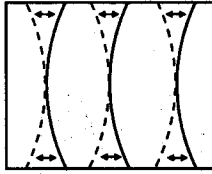
7. Input cross hatch signal.

Turn vertical green (V.G) and horizontal green (H.G) variable resistors (VRs) and make adjustments according to the following steps :

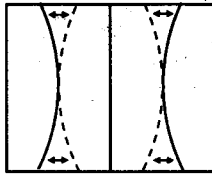
(Adjustment procedure)

1. [BOW] → [SKEW] → [CENT (center position)]
2. [PIN (pin warp)] → [SUB BOW] → [BOW]
3. [KEYS (trapezoid)] → [SUB SKEW] → [SKEW]
4. [M.WAVE (middle sine wave warp)] → [WAVE-A (upper and lower sine wave warp)] → [WAVE-U (upper sine wave warp)]
※ For vertical (V) only.
5. [V-M.PIN (vertical middle pin warp)] → [V/WING (vertical wing warp)]
※ For vertical (V) only.
6. [H-M.PIN (horizontal middle pin warp)]
※ For horizontal (H) only.

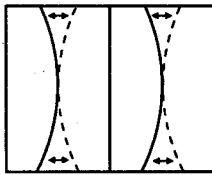
(Dot motion)



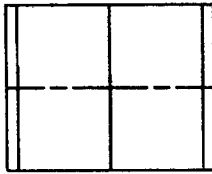

RV932 H.G BOW
(horizontal green bow)



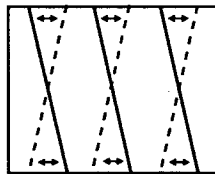

RV941 H.G PIN
(horizontal green pin warp)




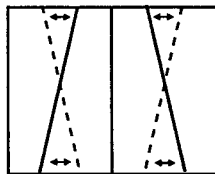

RV950 H.G SUB BOW
(horizontal green sub bow)



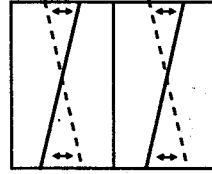
V.G BOW.....RV935
V.G PIN.....RV938
V.G SUB BOW.....RV953




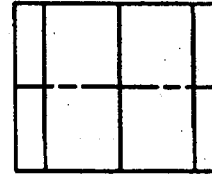

RV920 H.G SKEW
(horizontal green skew)



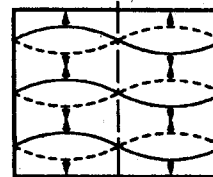

RV925 H.G KEYS
(horizontal green trapezoid)




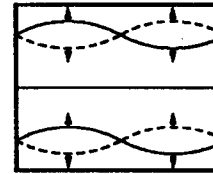

RV944 H.G SUB SKEW
(horizontal green sub skew)




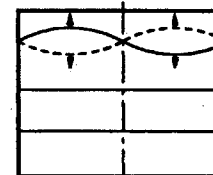
V.G SKEW.....RV923
V.G KEYS.....RV929
V.G SUB SKEW.....RV947



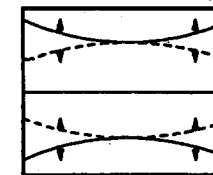

RV962 V-M-WAVE
(vertical middle sine wave warp)




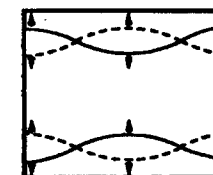

RV975 V-WAVE-A
(vertical upper and lower sine wave warp)




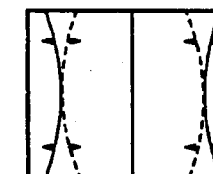

RV978 V-WAVE-U
(vertical upper sine wave warp)




RV980 V-M. PIN
(vertical middle pin warp)
* Common in red, green, and blue




RV957 V/WING
(wing warp)
* Common in red, green, and blue




RV956 H/M. PIN
(horizontal middle pin warp)

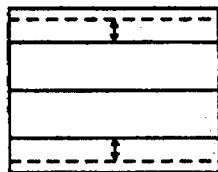
3-7. GREEN AND RED REGISTRATION ADJUSTMENTS

1. Input cross hatch signal.
2. Enter service mode. Select B OFF of SERVICE MODE to cut off blue output.
3. Turn the vertical red (V.R) and horizontal red (H.R) variable resistors (VRs) to adjust red picture convergence in relation to green picture according to the following steps :

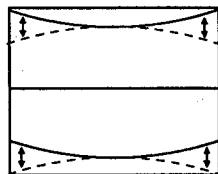
(Adjustment procedure)


1. [LIN (linearity)] → [SIZE (amplitude)] → [CENT (center position)]
2. [BOW] → [SKEW] → [CENT (center position)]
3. [PIN (pin warp)] → [SUB BOW] → [BOW] [H/M. PIN (horizontal middle pin warp)]
4. [KEYS (trapezoid)] → [SUB SKEW] → [SKEW]
5. [M.WAVE (middle sine wave warp)] → [WAVE-A (upper and lower sine wave warp)] → [WAVE-U (upper sine wave warp)]

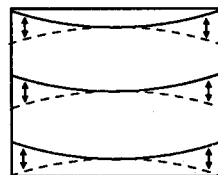
(Dot motion)




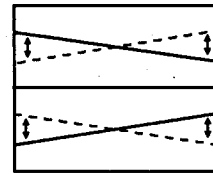
 RV912 V.B SIZE
(vertical red amplitude)



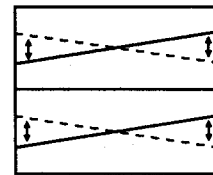
 RV952 V.R SUB BOW
(vertical red sub bow)




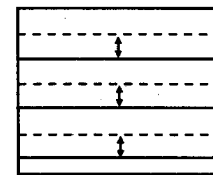
 RV943 V.R BOW
(vertical red bow)



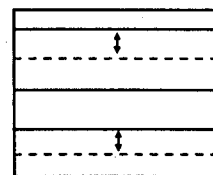
 RV928 V.R KEYS
(vertical red trapezoid)



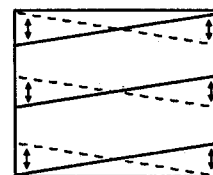
 RV946 V.R SUB SKEW
(vertical red sub skew)



 RV904 V.R CENT
(vertical red center position)



 RV917 V.R LIN
(vertical red linearity)



 RV922 V.R SKEW
(vertical red skew)

H.R LIN	RV915
H.R SIZE	RV907
H.R CENT	RV901
H.R BOW	RV931
H.R SKEW	RV919
H.R PIN	RV940
H.R KEYS	RV926
H.R SUB BOW	RV949
H.R SUB SKEW	RV943
V-M-WAVE	RV973
V-WAVE-A	RV976
V-WAVE-U	RV979
V-M.PIN	RV980
V/WING	RV957
H/M.PIN	RV956

SECTION 1 GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

Chapter 1: Setting Up Unpacking and Viewing Area

1 Carefully follow the instructions on the outside of the packing carton to unpack the projection TV.

Notes

- The supplied accessories are packed in the bottom of the carton. Be sure not to throw them away.
- Keep the original carton and packing materials to safely transport the projection TV in the future.

2 Check to make sure that the following is included:

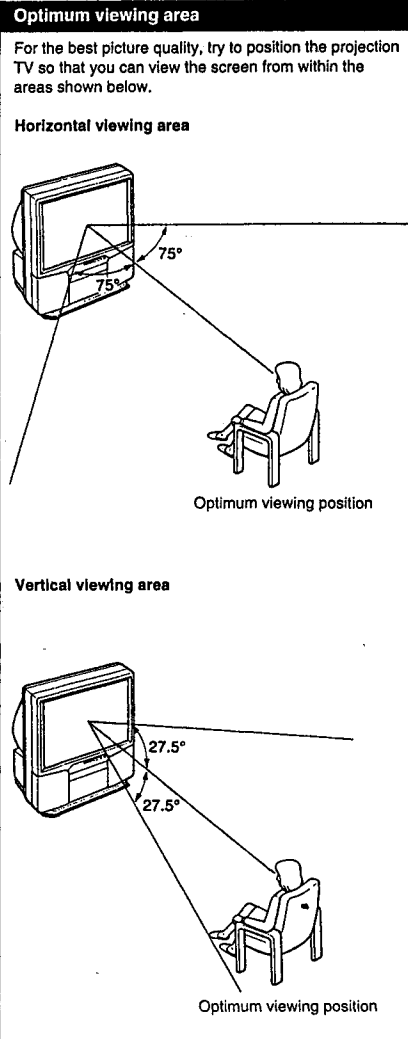
Universal Remote Commander
RM-Y112A (1)
with 2 size AA (R6) EVEREADY batteries

If the Remote Commander is missing, contact your dealer.

3 Place the projection TV in a cool, dry place where the ventilation openings at the sides are not blocked.

4 Plug the projection TV power cord into an AC 120 volt power outlet.

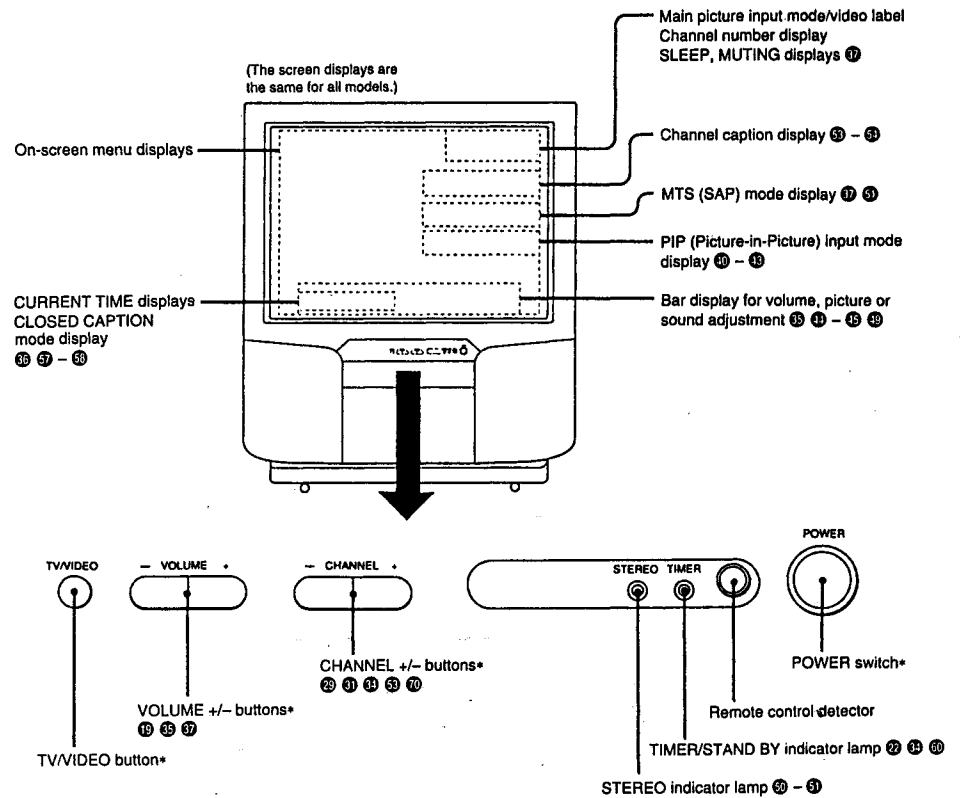
For further precautions, see p. 2.



Locating Controls and Connectors

For details, see the pages indicated by the numbered black circles ●.

Front



* Buttons with the same function are also located on the Remote Commander (p. 10).

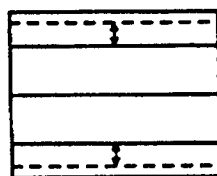
3-8. GREEN AND BLUE REGISTRATION ADJUSTMENTS

1. Input cross hatch signal.
2. Enter service mode. Select R OFF of SERVICE MODE to cut off red output.
3. Turn the vertical blue (V.B) and horizontal blue (H.B) variable resistors (VRs) to adjust blue picture convergence in relation to green picture according to the following steps :

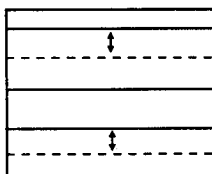
(Adjustment procedure)

1. [LIN (linearity)] → [SIZE (amplitude)] → [CENT (center position)] →
2. [BOW] → [SKEW] → [CENT (center position)]
3. [PIN (pin warp)] → [SUB BOW] → [BOW]
[H/M. PIN (horizontal middle pin warp)]
4. [KEYS (trapezoid)] → [SUB SKEW] → [SKEW]
5. [M.WAVE (middle sine wave warp)] → [WAVE-A (upper and lower sine wave warp)] → [WAVE-U (upper sine wave warp)] →

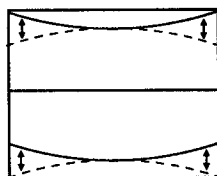
(Dot motion)



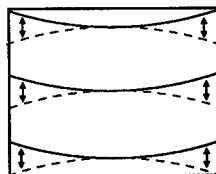
 RV912 V.B SIZE
(vertical blue amplitude)



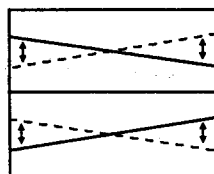
 RV918 V.B LIN
(vertical blue linearity)



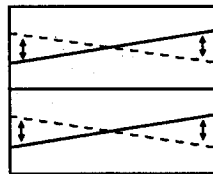
 RV954 V.B SUB BOW
(horizontal blue sub bow)




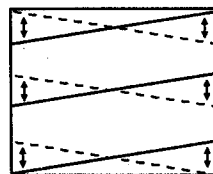
 RV936 V.B BOW
(vertical blue bow)



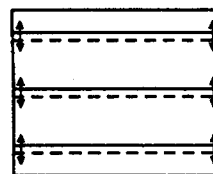
 RV930 V.B KEYS
(vertical blue trapezoid)



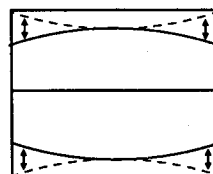
 RV948 V.B SUB SKEW
(vertical blue sub skew)



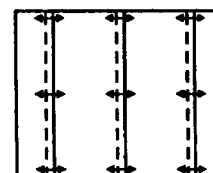
 RV924 V.B SKEW
(vertical blue skew)



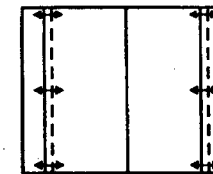
 RV906 V.B CENT
(vertical blue center position)



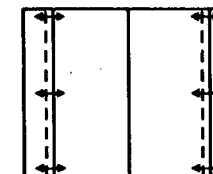
 RV939 V.B PIN
(vertical blue pin warp)



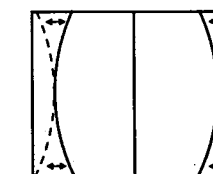
 RV903 H.B CENT
(vertical blue center position)



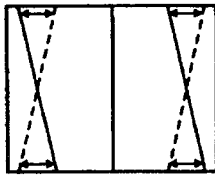
 RV909 H.B SIZE
(horizontal blue amplitude)



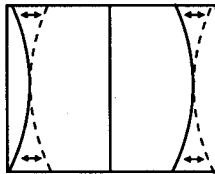
 RV914 H.B LIN
(horizontal blue linearity)



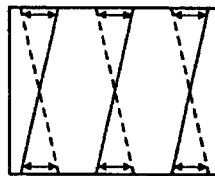
 RV942 H.B PIN
(horizontal blue pin warp)



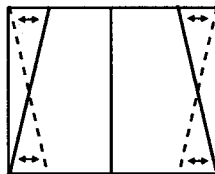
RV954 H.B SUB SKEW
(horizontal blue sub skew)



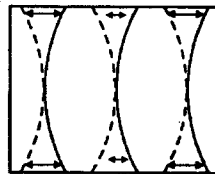
RV951 H.B SUB BOW
(horizontal blue sub bow)



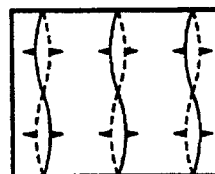
RV921 H.B SKEW
(horizontal blue skew)



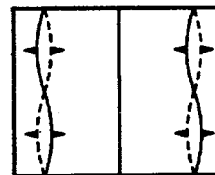
RV927 H.B KEYS
(horizontal blue trapezoid)



RV933 H.B BOW
(horizontal blue bow)



RV981
※ Common in red,
green, and blue



RV982
※ Common in red,
green, and blue

H/M PIN.....RV958
M.WAVE.....RV961
WAVE-A.....RV974
WAVE-U.....RV977

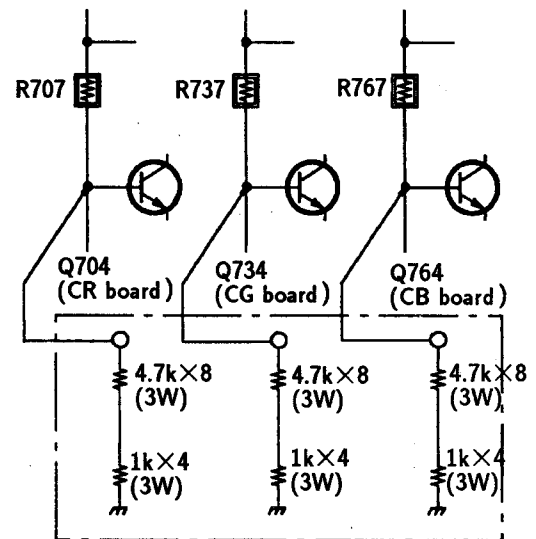
3-9. REGISTRATION CHECK

1. Out put red, blue, and green.
2. Out put cross hatch and monoscope signals to check registration. Also check focus.

3-10. WHITE BALANCE ADJUSTMENTS

1) Screen adjustment

1. Input white signal.
2. Remove connectors CR-15, CG-16, and CB-17.
3. Fit jigs between the ground and R707, R737, and R767.



※ Resistors in each jig are connected serial.

4. Turn the RGB (red, green, and blue) screen variable resistors in the focus block to make the flyback line faint. Stop before the line completely disappears.
5. Insert connectors CR-15, CG-16, and CB-17.

2) White balance adjustments (SBRT, GAMP, BAMP, GCUT, BCUT)

1. Input monoscope signal and enter service mode.
2. Select the picture quality adjustment from the menu and set PICTURE minimum.
3. Use the commander to adjust SBRT so that 10 IRE of the monoscope pattern becomes faintly luminous.
4. Input white signal.
5. Set PICTURE minimum. Adjust item GCUT and BCUT to obtain an optimum white balance.
6. Set PICTURE maximum. Adjust GAMP and BAMP to obtain an optimum white balance.
7. Repeat white balance adjustment alternating PICTURE setting at the minimum and maximum.

SECTION 4 SAFETY RELATED ADJUSTMENTS

4-1. SAFETY RELATED ADJUSTMENTS

When replacing the following components, make the HV REGULATOR adjustments (on the N board)

-HV block, IC803, IC805, D805, D807, C817, C818, C821, C836, C837, R824, R825, R827, R828, R834, R835, R836, R864, R865, R866, R902

When replacing the following components, make the HV HOLD DOWN adjustments (on the N board)

-HV block, IC803, IC804, Q804, D806, D808, C809, C819, C820, C822, C823, C850, R807, R826, R829, R832, R833, R837, R838, R839, R840, R841, R892, R893, R900, R901

When replacing the following components, make the BEAM CURRENT PROTECTOR adjustments (on the N board)

-① IC802, Q805, Q807, D811, D812, C810, C824, C825, C826, C827, C831, R810, R843, R844, R847, R848, R849, R850, R851, R852, R853, R854, R881
- ② IC804, Q804, Q808, D808, D809, C809, C828, C829, C830, C831, R807, R839, R840, R841, R847, R848, R849, R850, R851, R852, R855, R856, R857, R881

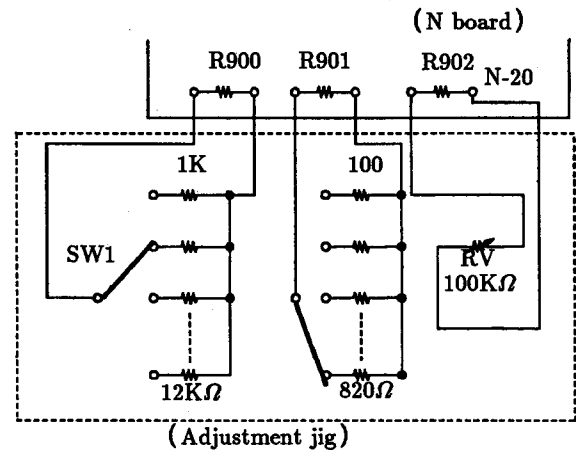
When replacing the following components, make the OVP CIRCUIT adjustments (on the G board)

-Q618, Q621, D628, C634, R639, R649, R652, R655, R656

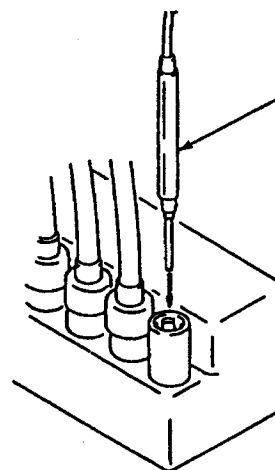
— Checking with static voltmeter —

HV HOLD DOWN ADJUSTMENTS (R900, R901)

1. Verify that the power switch is off.
2. Connect the HV hold down adjustment resistance jig to the N20 connector on the N board.



3. Connect an external variable resistor (RV) to R 902 of the N board.
4. Remove the cap off from the unused terminal of the high voltage block. Connect a static voltmeter to the terminal.

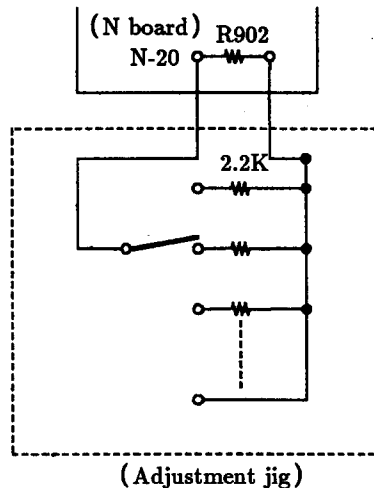


Remove high-voltage lead wire from the terminal and connect a static voltmeter there.

5. Receive 120 VAC power voltage and monoscope pattern signal. Maximize PICTURE and BRIGHTNESS.
6. Use the external variable resistor of the hold down adjustment jig to make the static voltmeter to read $33.50 \pm 0.50\text{kVDC}$.
7. Raise resistances with the jig until the HV hold down circuit is activated. Read the figures then, and mount resistance of the measured figures to R900 and R901.
R900 : Must be $1\text{k}\Omega$ to $12\text{k}\Omega$
R901 : Must be $J_w 100\Omega$ to 820Ω
8. Turn on power again. Vary external variable resistance and confirm that the HV hold down circuit is activated at the reated value, $33.50 \pm 0.50\text{kV}$.

HV REGULATOR ADJUSTMENTS (R902)

1. Connect the HV adjustment resistance jig to R902 of the N board.



2. Remove the red anode lead wire for the CRT tube from the high-voltage block and connect the static voltmeter instead.
3. Receive 120 VAC power voltage and monoscope pattern signal. Set PICTURE and BRIGHTNESS to the standard.
4. Turn on power. To adjust the resistance of R902 with the adjustment jig to read the rated value, $31.50 \pm 0.50\text{kV}$.
5. Receive all-white signal. Set BRIGHTNESS to the standard. Maximize PICTURE. Confirm that the rated value, $31.50 \pm 0.50\text{kV}$ is read.
6. Cut off RGB by R OFF, G OFF, B OFF of the service commander. Verify that the rated value, $31.50 \pm 0.50\text{kV}$, is read.

+B VOLTAGE CONFIRMATION

1. Receive 120 ± 1 VAC power voltage and monoscope pattern signal. Set BRIGHTNESS to standard and maximize PICTURE.
2. Connect a digital multimeter between the 115V line and the ground on the G board, and confirm that the rated value, $115.0 \pm 3.0\text{V}$ is read.

CHECKING AFTER REPLACING IC601

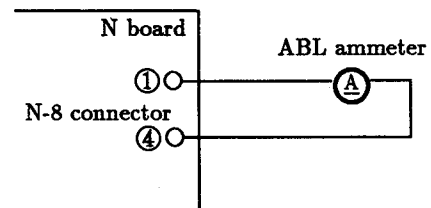
1. When replacing IC601, check the +B voltage.

CHECKING THE OVP (overvoltage protection) CIRCUIT (R652)

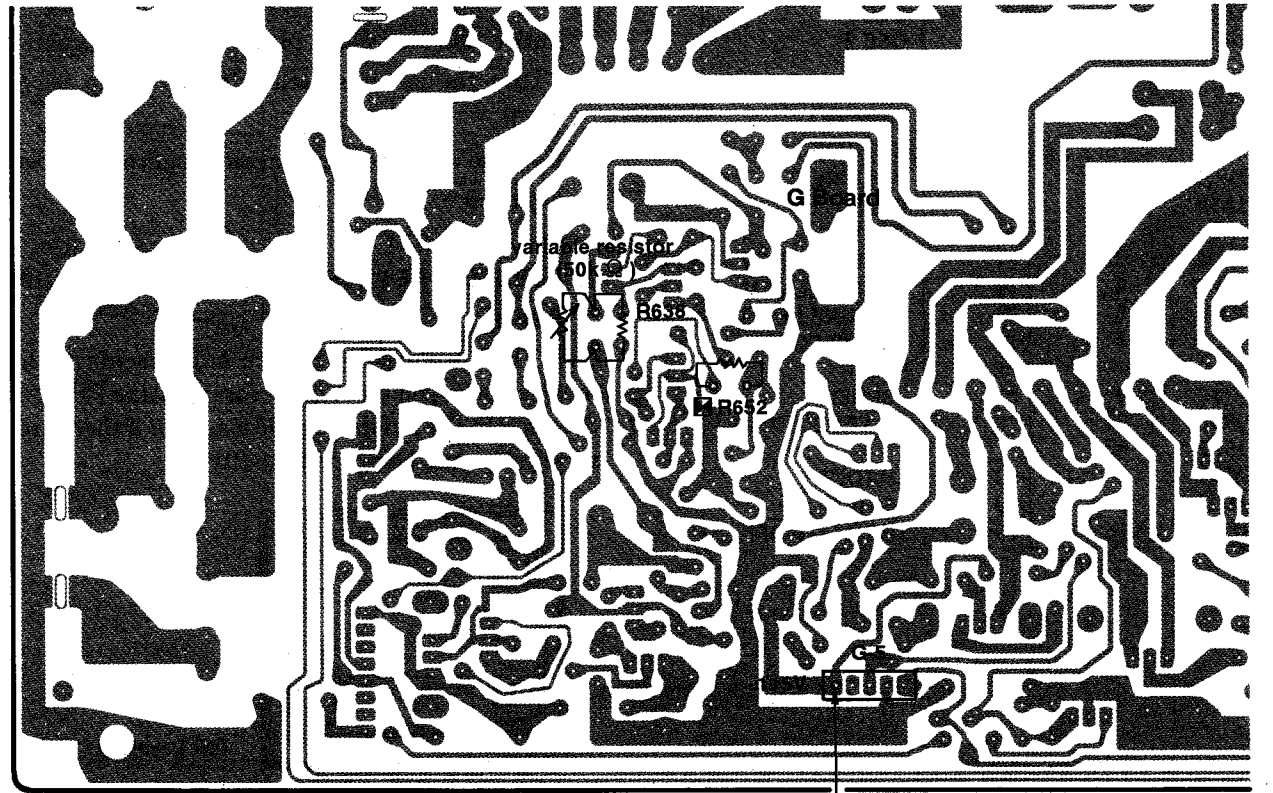
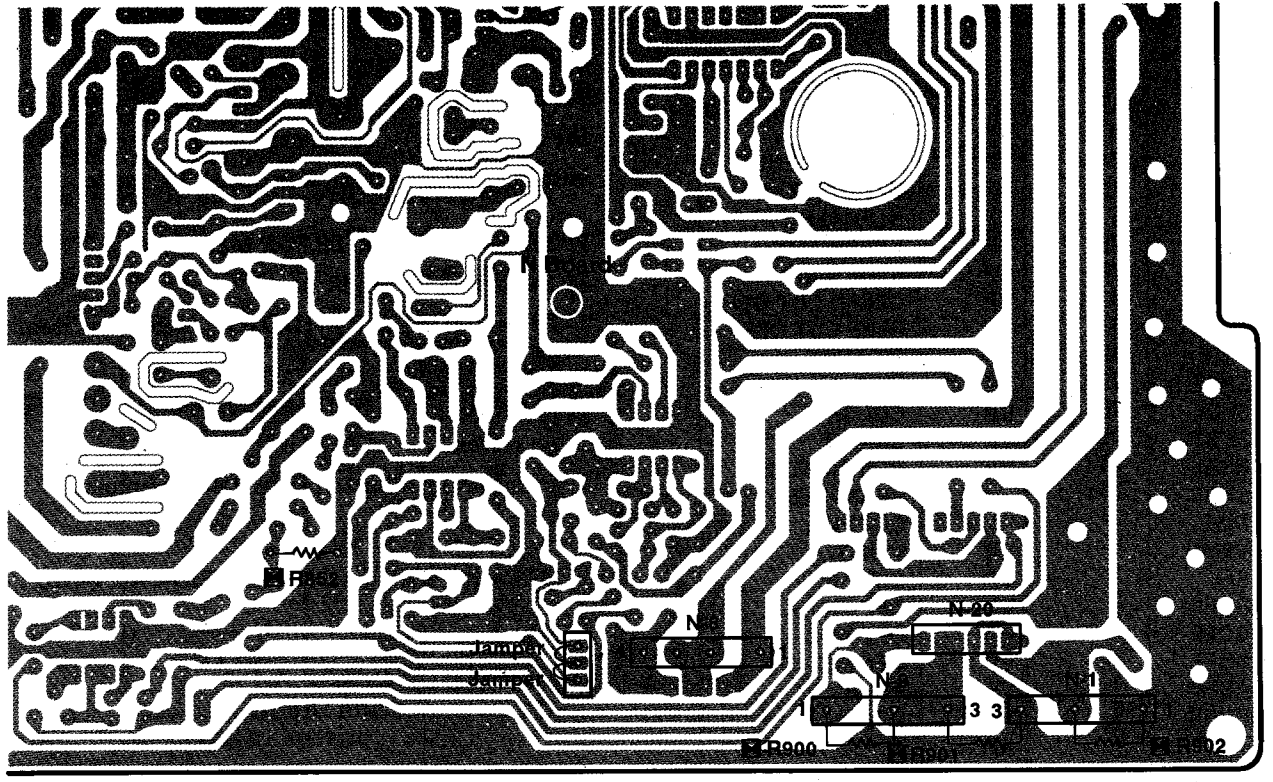
1. Receive 120 VAC power voltage and monoscope pattern signal. Maximize PICTURE and BRIGHTNESS.
2. Remove R638 from the G board and connect a variable resistor (4.7 to $10\text{k}\Omega$) instead.
3. Turn the variable resistor of $10\text{k}\Omega$ and confirm that the OVP circuit is activated and luster disappears when +B voltage reads the rated value, 125.0 ± 5.0 VDC.

BEAM CURRENT PROTECTOR CHECK (R852)

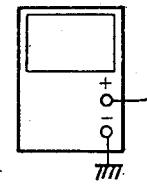
1. Receive 120 VAC power voltage and monoscope pattern signal. Maximize BRIGHTNESS.
2. Connect pin ① and pin ② of the N-21 connector. (on the N board)
3. Remove the jumper connector from the N-8 connector on the N board. Then connect an ABL ammeter between pin ① and pin ④ of the N-8 connector.



4. Raise PICTURE current gradually. Confirm that the beam current protector circuit is activated and luster disappears under the rated value, $3400 \mu\text{A}$.
5. Connect pin ③ and pin ② of the N-21 connector. Verify that the protector circuit is activated and luster disappears similarly.



digital multi-meter



— Checking without static voltmeter —

HV HOLD DOWN ADJUSTMENT (R900, R901)

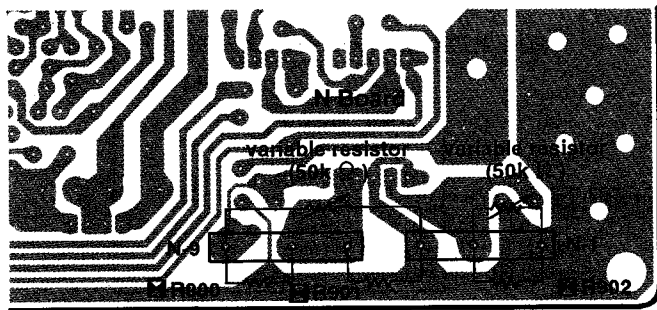
1. Receive all-white signal. Maximize PICTURE and BRIGHTNESS.
2. Remove R902 from the N board. Connect a variable resistor of $50k\Omega$ on each end, and minimize the resistance.
3. Remove R900 and R901 from the N board. Connect a variable resistor of $50k\Omega$ on each end, and minimize the resistance.
4. Connect a digital voltmeter between the D801 cathode and chassis ground of the N board.
5. Turn on the power switch. Adjust the variable resistors connected to the R902 of the N board to make the digital multimeter to read $145.0VDC$.
6. Adjust the variable resistors connected to R900 and R901 on the N board so as to activate the HV hold down circuit and turn off the display.
7. Read the variable resistors connected to R900 and R901 and mount fixed resistors of measured resistance to the terminals.

Note : Select fixed resistance from the following ranges.

R900 : $1k\Omega$ to $12k\Omega$

R901 : $Jw 100\Omega$ to 820Ω

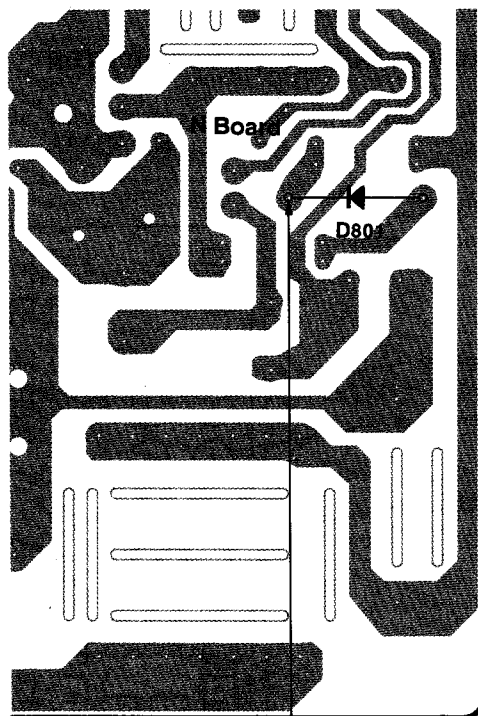
8. Maximize resistance of the variable resistor connected to R902 of the N board and turn on power.
9. Vary variable resistance at R902. Confirm that the HV hold down circuit is activated and the display is turned off when voltage reads $134\pm 1.0V$.



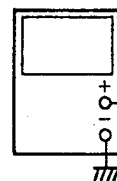
HV REGULATOR ADJUSTMENT (R902)

1. Receive all-white signal. Maximize PICTURE and BRIGHTNESS.
2. Connect a variable resistor of $50k\Omega$ on each end of R902 of the N board. Maximize resistance.
3. Connect a digital voltmeter between the D801 cathode and the chassis of the N board.
4. Turn on power. Adjust the variable resistor so that the digital multimeter reads $135.0V\pm 1.0V$.
5. Read the variable resistance then.
6. Mount a fixed resistor of the measured resistance to R902.
7. Turn on power again. Confirm that the digital multimeter reads $135.0V\pm 1.0V$.

Note : R902 : Must be $2.2k\Omega$ to $27k\Omega$



digital multi-meter



SECTION 5 CIRCUIT ADJUSTMENTS

5-1. ELECTRICAL ADJUSTMENT BY REMOTE COMMANDER

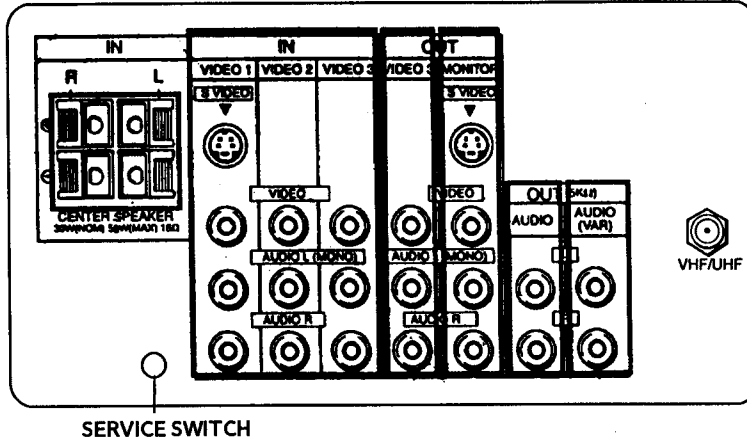
Use of Remote Commander (RM-Y112A) can be performed circuit adjustments about this model.

NOTE : Test Equipment Required.

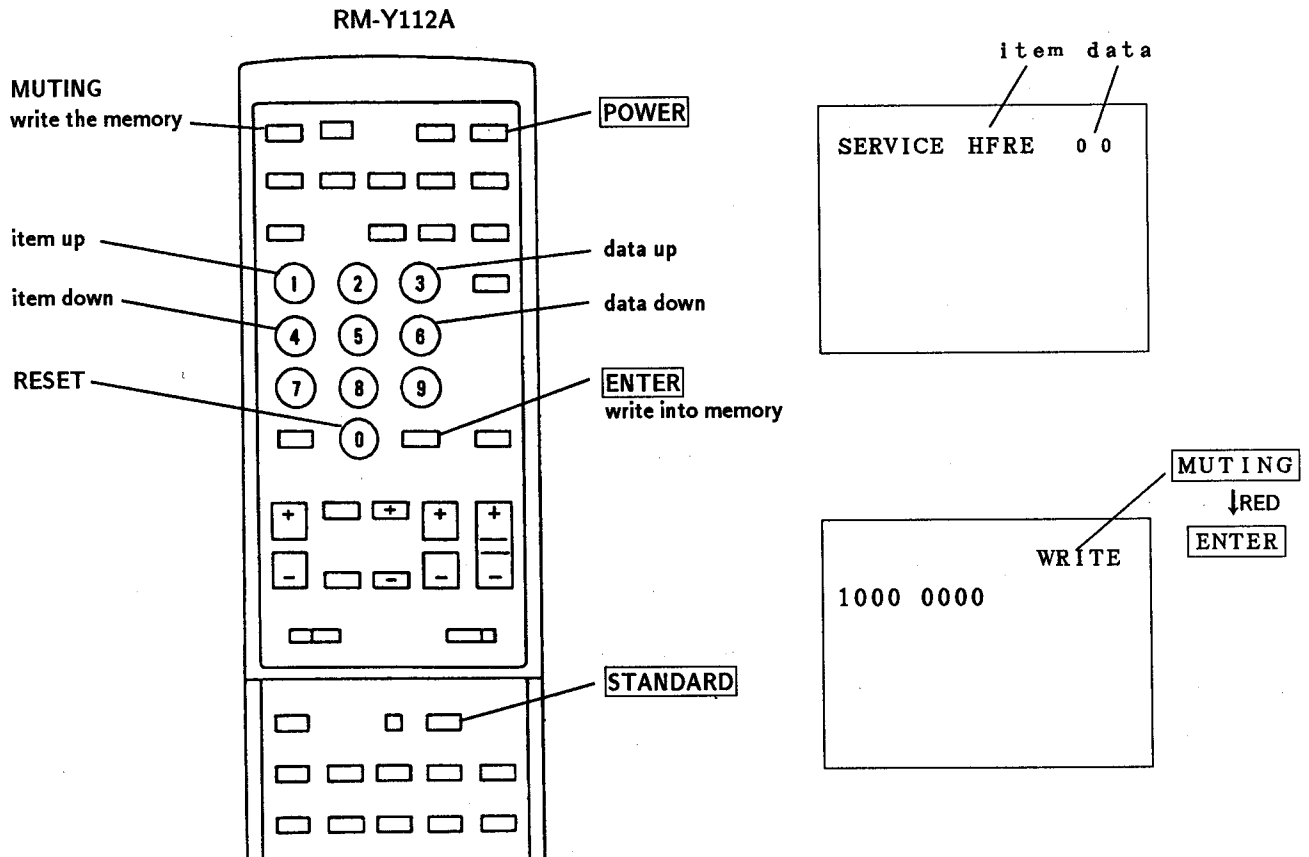
1. METHOD OF SETTING THE SERVICE MODE

1. Pattern Generator
2. Frequency counter
3. Digital multimeter
4. Audio OSC

1) Press **POWER** button on the Remote Commander while pressing switch on the rear of the set.



2. ADJUST BUTTONS AND INDICATOR



3. AN ITEM OF ADJUSTMENT

ITEM	REFERENCE DATA		NAME REGIST
AFC	0	VP	AFC 1.0
HFRE	74	VP	H. FREQUENCE
VFRE	16	VP	V. FREQUENCE
HPOS	5	VP	H. PHASE
GAMP	25	VP	GREEN AMP.
BAMP	26	VP	BLUE AMP.
GCUT	9	VP	GREEN CUT OFF.
BCUT	6	VP	BLUE CUT OFF
SPIX	40	VP	PICTURE
SHUE	29	VP	HUE
SCOL	28	VP	COLOR
SBRT	11	VP	BRIGHT
RGBP	28	VP	RGB PICTURE
SHAR	13		SHARPNESS
DISP	24		OUTPUT
VSMO	0	VP	VSMO
REF	1	VP	REF 1.0
ROFF	1	VP	OFF NR
GOFF	1	VP	OFF NG
BOFF	1	VP	OFF NB
ABLM	0	VP	ABLM
DRGB	0	VP	D RGB
TEST	0	AP	T
MPX	7	AP	ATT
FILO	31	AP	I1
DEEM	7	AP	I2
STEV	31	AP	OSC 1
SAPV	31	AP	OSC 2
PILO	7	AP	PILOT
SEP	31	AP	WIDE BAND
VD	7	AP	SPECTRAL
LVOL	0	AP	VOLUME-L
RVOL	0	AP	VOLUME-R
BASS	8	AP	BASS
TRE	8	AP	TREBLE
PHPO	32	PI	READ DELAY H
PVPO	8	PI	READ DELAY V
PLEV	6	PI	PICTURE LEVEL
PFCO	7	PI	FRAME COLOR
PPLL	1	PI	PLLOF
PPVS	6	PI	VSPDEL
NRLE	31		NR LEVEL
DSPP	43		
SHAD	1	PJ	SHADON
VMSW	1	PJ	RS HAD
SCUT	16	PJ	SHAD CUT OFF

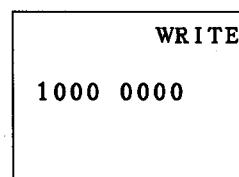
4. METHOD OF CANCELLATION FROM SERVICE MODE

Set the standby condition (Press **POWER** button on the commander) in the next place, press **POWER** button again, hereupon it becomes TV mode.

5. METHOD OF WRITE FOR MEMORY

- 1) Set to Service Mode.
- 2) Press **1** (UP) and **4** (DOWN), select an item of adjustments.
- 3) Press **MUTING** button indicate WRITE (RED) on screen.
- 4) Press **ENTER** button to write for memory.

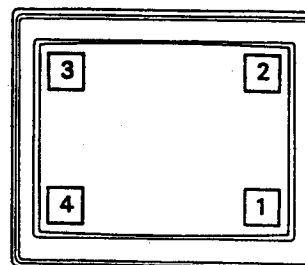
6. MEMORY WRITE CONFIRMATION METHOD



- 1) After adjustment, pull out the plug from AC outlet, and next place, plug in AC outlet again.
- 2) Turn the power switch ON and set to Service Mode.
- 3) Call the adjusted items again, confirm they were adjusted.

7. PUB PICTURE POSITION ADJUSTMENT (PHPO, PUPO)

Note : Before doing any Service Adjustments on the models above you must make sure that the PIP Screen is in the number 1 position, even if there are no adjustments being made to PIP.



PIP Positions

After making adjustments into the PIP 1 position, write the information into the ROM. Next, unplug the unit and recheck the other three positions. Adjustments made to the number 1 position will affect the other three positions.

5-2. A BOARD ADJUSTMENTS

RF AGC ADJUSTMENT (IF BLOCK VR)

- 1) Input a color-bar signal.
- 2) Adjust AGC VR of TU 101 so that snow noise and cross-modulation disappear from the picture.
- 3) Confirm them at every channel.

H.FREQUENCY ADJUSTMENT (HFRE)

- 1) Set to Service Mode.
- 2) Input a color-bar signal.
- 3) Connect a frequency counter to pin ③ of A-10 connector.
- 4) Call the item of AFC, set to 3 level (free run).
- 5) Select HFRE with **[1]** and **[4]**.
- 6) Adjust **[3]** and **[6]** to the 15735 ± 60 Hz level.
- 7) Call the item of AFC again, adjust the level "01".
- 8) Write into the memory by pressing **[MUTING]** → then **[ENTER]**.

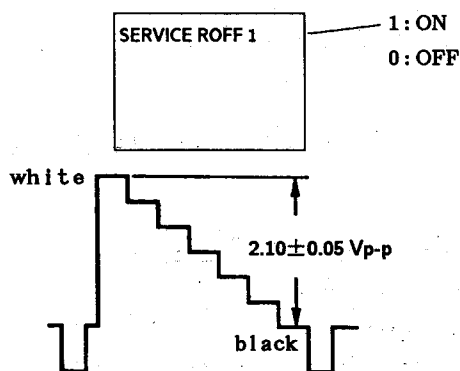
V.FREQUENCY ADJUSTMENT (VFRE)

- 1) Set the Service Mode.
- 2) Input an off-air signal (VIDEO IN → no signal).
- 3) Connect the frequency counter across connector ③ pin of E 1-1 connector and ground.
- 4) Select VFRE with **[1]** and **[4]**.
- 5) Adjust **[3]** and **[6]** to the 56 ± 0.5 Hz.
- 6) Write the memory by pressing **[MUTING]** → then **[ENTER]**.

SUB CONTRAST ADJUSTMENT (SPIX)

- 1) Set to Service Mode.
- 2) Input a color-bar signal. (75 IRE)
- 3) Set the conditions as follows.

PICTURE	.....	MAX
COLOR	.....	MIN
BRIGHTNESS	.....	MIN
TRINITONE	.....	LOW
R OFF	.....	ON
G OFF	.....	OFF
B OFF	.....	OFF

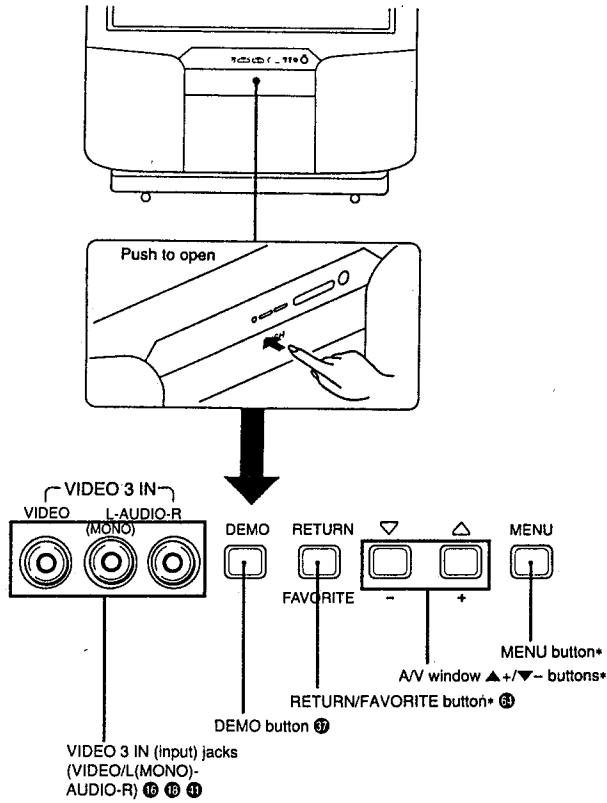


- 4) Connect an oscilloscope to ② pin of E1-1 connector on A board and ground.
- 5) Adjust **[3]** and **[6]** to the 2.10 ± 0.05 Vp-p level by select-ing SPIX with **[1]** and **[4]**.
- 6) Write the memory by pressing **[MUTING]** → then **[ENTER]**.
- 7) Return the following back to normal after adjustment.

G OFF	.....	ON
B OFF	.....	ON
COLOR	.....	CENTER
BRIGHTNESS	.....	CENTER
TRINITONE	.....	HIGH
PICTURE	.....	80%

Locating Controls and Connectors

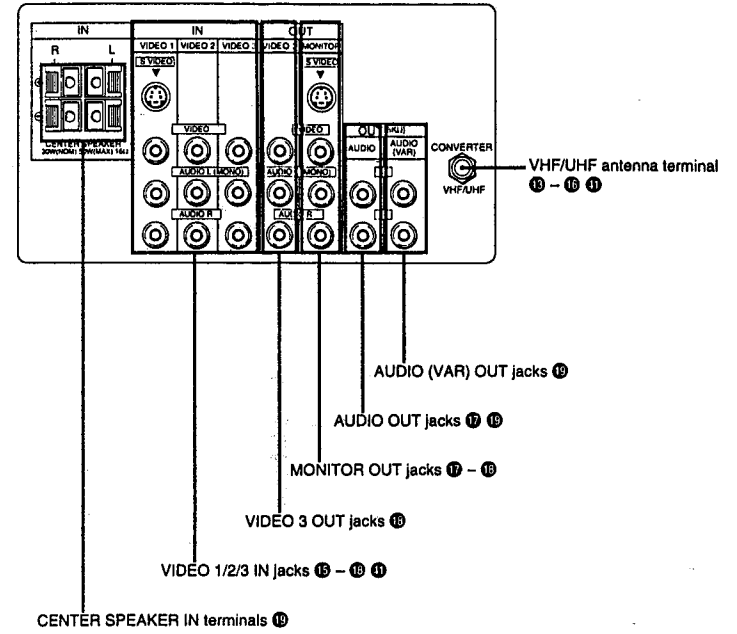
Front Inner panel



* Buttons with the same function are also located on the Remote Commander (p. 10).

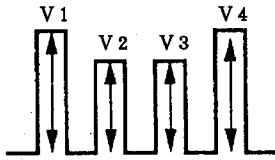
Note
The instructions in this manual are based for the most part on operating the projection TV with the Remote Commander. You can also use the buttons on the projection TV that have the same function.

Rear

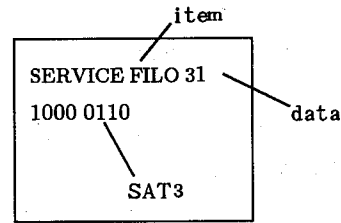


SUB HUE, SUB COLOR ADJUSTMENT (SHUE, SCOL)

- 1) Input a color-bar signal.
- 2) Press **STANDARD** to normal.
- 3) Set to Service Mode.
- 4) Connect an oscilloscope to pin ② of E1-1 connector on A board and ground.
- 5) Adjust ③ and ④ to the $V1=V4$ and $V2=V3$ by select to SHUE and SCOL with ① and ④. Lower the data 4 steps from this point.



- 4) Make the data "00" by selecting FILO with ① and ④. And then, send up the data gradually by pressing ⑥. Set the data to D1 before SAT3 changing to 1 from 0.
- 5) Send up the data gradually. Set data D2 when SAT3 changes 0 from 1.
- 6) Adjust the data of FILO to $\frac{D1 + D2}{2}$.
- 7) Write into the memory by pressing **MUTING** → then **ENTER**.

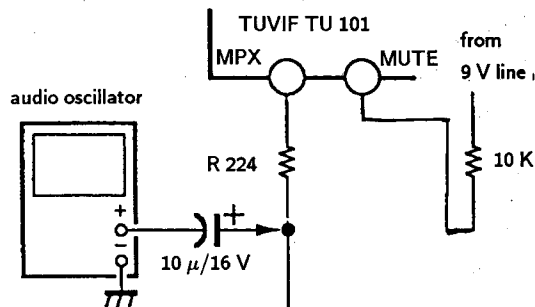


- 6) Write into the memory by pressing **MUTING** → then **ENTER**.

FILTER ADJUSTMENT (MPX, FILO)

- 1) Set to Service Mode.
- 2) Select to **TEST** with ① and ④, set the data to "1". Then select MPX and change data to "8".
- 3) Connect an audio oscillator to R224 using a capacitor (10μ F/16V), set frequency to 62.936 kHz ± 0.1 kHz.

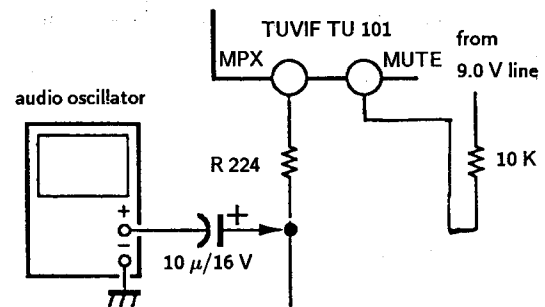
And then, through the 10kΩ resistor, feed 9.0V into the mute of TUVIF TU 101.



V4 fh : SINE-WAVE 62.936 KHz ± 0.1 KHz
LEVEL 3.0 Vp-p

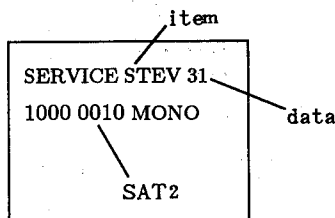
ST VCO ADJUSTMENT (MPX, STEV)

- 1) Set to Service Mode.
- 2) Select TEST with ① and ④, set the data to "1". And then press **MTS** to MONO.
- 3) Select MPX, set the data "8".
- 4) Connect an audio oscillator to R 224 using electrolytic capacitor (10μ F/16V) and apply the frequency Vst. Then, apply DC voltage to mute of TUVIF TU 101 using 10kΩ connect to 9.0 V line.



Vfh : SINE-WAVE 15.734 KHz ± 0.1 KHz
LEVEL 0.28 Vp-p

- 5) Select STEV with **1** and **4**, set the data to "00" with **6**. And then, send up the data gradually. Set the data to D1 before SAT2 changes from 0 to 1.
- 6) Send up data gradually, set the data to D2 when SAT2 changes 1 from 0.
- 7) Adjust the data of STEV to $(D1 + D2) / 2$.
- 8) Write into the memory by pressing **MUTING** → then **ENTER**.



MPX IN LEVEL ADJUSTMENT (MPX)

- 1) Set to Service Mode.
- 2) Select TEST with **1** and **4**, set the data to "0" with **6**. And then press **MTS** to MONO.
- 3) Select MPX with **1** and **4**, set the data to "8" with **3** and **6**.
- 4) Write into the memory by pressing **MUTING** → then **ENTER**.

PILOT CANCEL ADJUSTMENT (PILO)

- 1) Set to the Service Mode.
- 2) Select PILO with **1** and **4**, set the data to "08" with **3** and **6**.
- 3) Write into the memory by pressing **MUTING** → then **ENTER**.

SAP VCO f₀ ADJUSTMENT (SAPV)

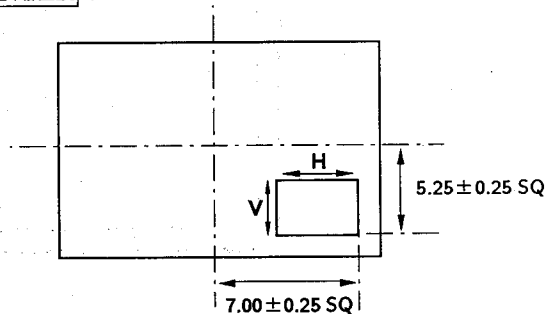
- 1) Set to Service Mode.
- 2) Input a stereo broadcast signal with SAP.
- 3) Select TEST with **1** and **4**, set the data to "0" And then, press **MTS** to MAIN.
- 4) Connect a digital multimeter to TP-1(DBX). This voltage reading will equal V 1.
- 5) Press MTS to SAP and this voltage will equal V 2.
- 6) Select SAPV with **1** and **4**, adjust **3** and **6** so that $V2 = V1 \pm 0.03$ VDC.
- 7) Write the memory by **MUTING** → **ENTER**.

SEPARATION ADJUSTMENT (SEP)

- 1) Set to Service Mode.
- 2) Press **MTS** to MAIN and receive a monoral broadcast signal.
In the next step, receive a stereo broadcast signal.
- 3) Select SEP and VD with **1** and **4**, adjust **3** and **6** so that a clear stereo sound is effected.

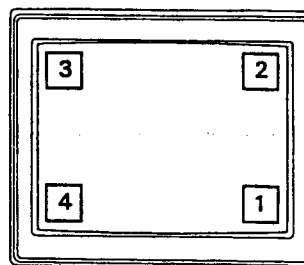
SUB PICTURE POSITION ADJUSTMENT (PHPO, PVPO)

- 1) Input a cross hatch signal.
- 2) Set to service mode.
- 3) Press PIP to display a sub picture.
(RIGHT LOWER Position)
- 4) Select PHPO, PVPO with **1** and **4**.
- 5) Adjust **3** and **6** to the standard as shown below.
- 6) Write the memory by pressing **MUTING** → then **ENTER**.



PUB PICTURE POSITION ADJUSTMENT (PHPO, PUPU)

Note: Before doing any Service Adjustments on the models above you must make sure that the PIP Screen is in the number 1 position, even if there are no adjustments being made to PIP.



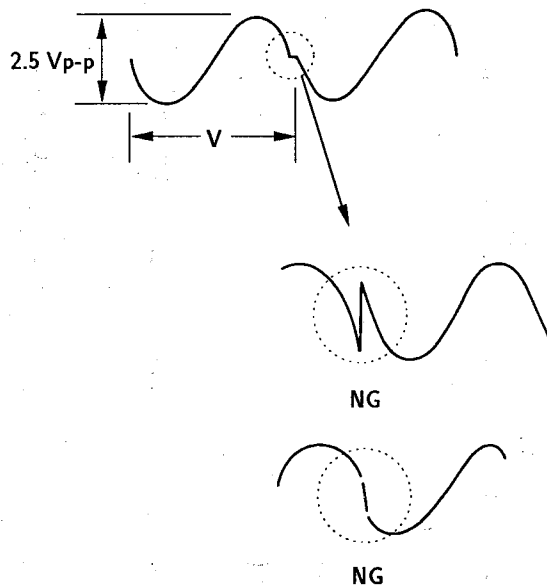
PIP Positions

After making adjustments into the PIP 1 position, write the information into the ROM. Next, unplug the unit and recheck the other three positions. Adjustments made to the number 1 position will affect the other three positions.

5-3. DS BOARD ADJUSTMENTS

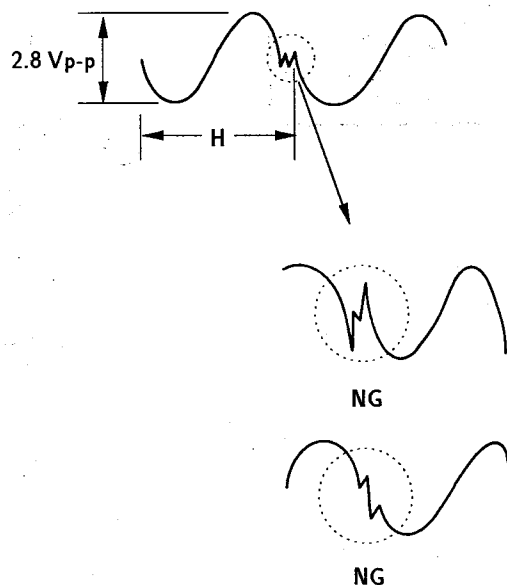
V. 3 WAVE ADJUSTMENT (RV983)

- 1) Input a color-bar signal.
- 2) Connect an oscilloscope IC1712 Pin ⑦ of DS board ground.
- 3) Adjust RV983 as shown the following figure.

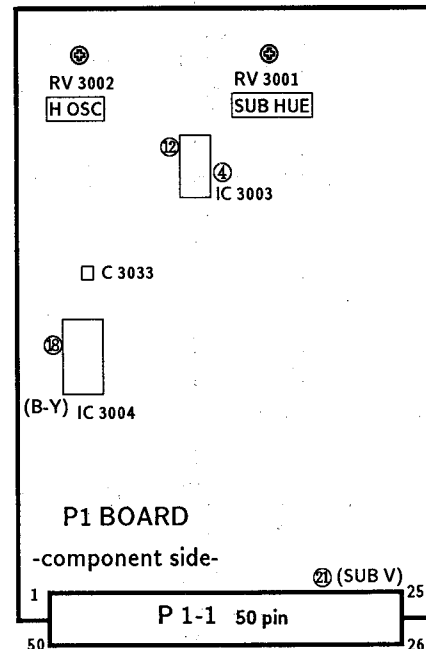


H. 3 WAVE ADJUSTMENT (RV984)

- 1) Input a color-bar signal.
- 2) Connect an oscilloscope IC1712 Pin ① of DS board ground.
- 3) Adjust RV984 as shown the following figure.

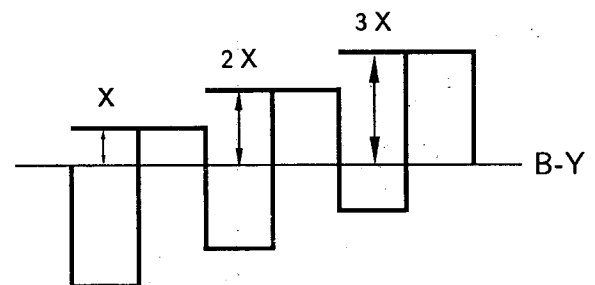


5-4. P1 BOARD ADJUSTMENTS



SUB HUE ADJUSTMENT (RV 3001)

- 1) Set HUE and COLOR to the standard condition.
- 2) Make adjustment so that B-Y signal as shown to the right is obtained at the crossing point of R 3009 (0 Ω) and C 3033.
- 3) Supply the color bar signal of 75 IRE (white) at 2 V_{pp} to Pin ⑳ (SUB V) of P 1-1 and make adjustment by turning RV 3001.

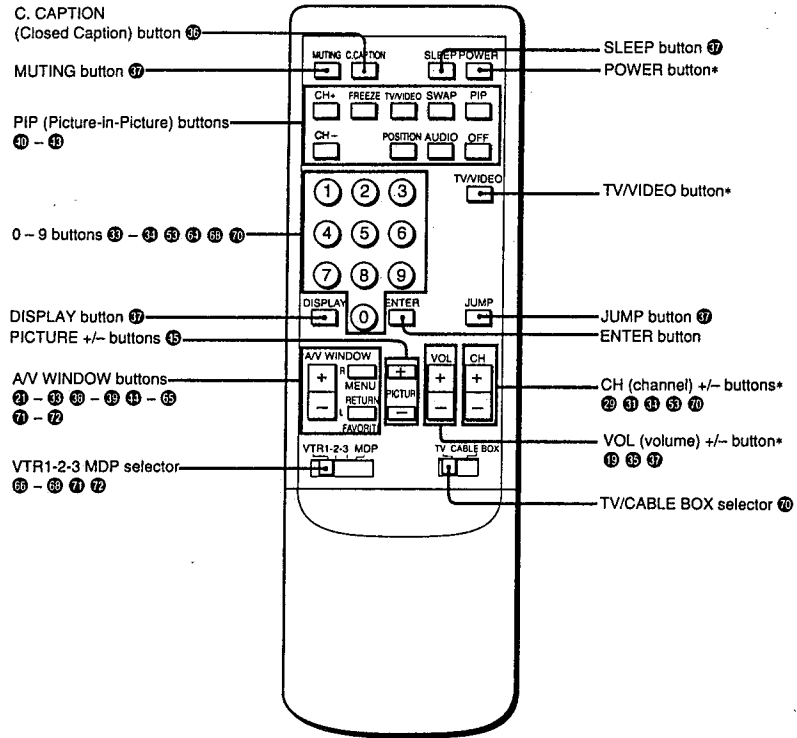


H. FREQUENCY (H OSC) ADJUSTMENT (RV-3002)

- 1) Connect a frequency counter to Pin ④ (H OUT) of IC 3003.
- 2) Connect Pin ⑫ of IC 3003 to ground.
- 3) Adjust RV3002 for a frequency of 15.734 kHz ± 50 Hz at Pin ④ of IC 3003.
(or until the frequency comes to a standstill.)

Locating Controls and Connectors

Remote Commander RM-Y112A (with the video control cover closed)

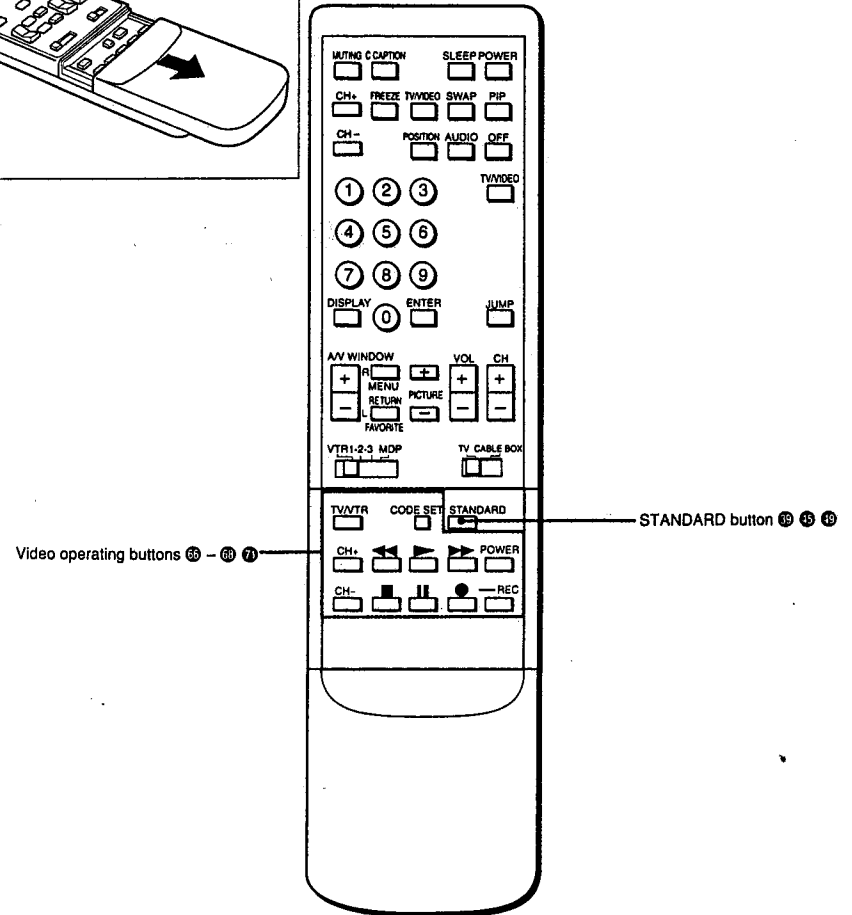
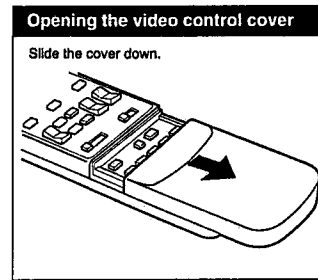


* Buttons with the same function are also located on the projection TV (p. 7).








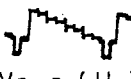




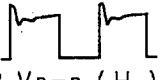



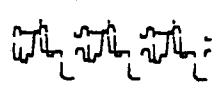
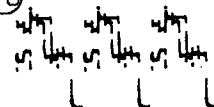
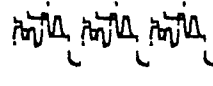
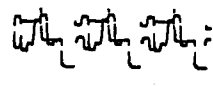
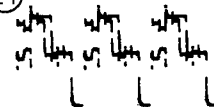
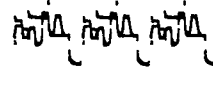

Note

If the TV/CABLE BOX selector is set to CABLE BOX, the Remote Commander is able to control a connected cable box, not the projection TV (p. 70). Set the selector to TV to control the projection TV with the Remote Commander.

Remote Commander (with the video control cover open)



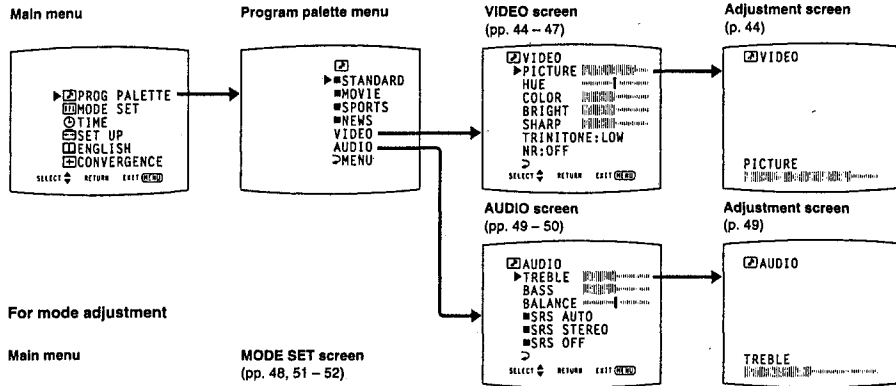
• A BOARD WAVEFORMS

<p>①</p>  <p>1.2Vp-p (H)</p>	<p>②</p>  <p>1.2Vp-p (H)</p>	<p>③</p>  <p>2.5Vp-p (H)</p>
<p>④</p>  <p>2.0Vp-p (V)</p>	<p>⑤</p>  <p>2.0Vp-p (V)</p>	<p>⑥</p>  <p>2.0Vp-p (V)</p>
<p>⑦</p>  <p>1.8Vp-p (V)</p>	<p>⑧</p>  <p>1.0Vp-p (H)</p>	<p>⑨</p>  <p>1.2Vp-p (H)</p>
<p>⑩</p>  <p>1.0Vp-p (H)</p>	<p>⑪</p>  <p>0.8Vp-p (H)</p>	<p>⑫</p>  <p>1.4Vp-p (H)</p>
<p>⑬</p>  <p>58Vp-p (H)</p>	<p>⑭</p>  <p>450Vp-p (H)</p>	<p>⑮</p>  <p>0.7Vp-p (V)</p>
<p>⑯</p>  <p>12.0Vp-p (V)</p>	<p>⑰</p>  <p>1.5Vp-p (H)</p>	<p>⑱</p>  <p>1.5Vp-p (H)</p>
<p>⑲</p>  <p>1.4Vp-p (H)</p>	<p>⑳</p>  <p>1.6Vp-p (H)</p>	<p>㉑</p>  <p>1.6Vp-p (H)</p>
<p>㉒</p>  <p>1.4Vp-p (H)</p>	<p>㉓</p>  <p>1.5Vp-p (V)</p>	

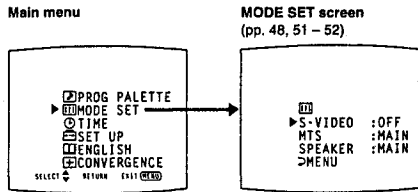
Using the On-Screen Menus

The following flow chart shows the different levels of on-screen menus that you can use to make various adjustments and settings. See the indicated pages for instructions on using each feature.

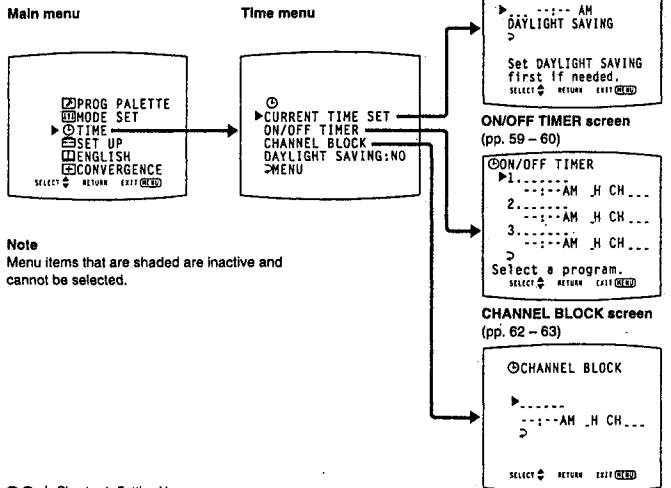
For picture and sound quality adjustment



For mode adjustment

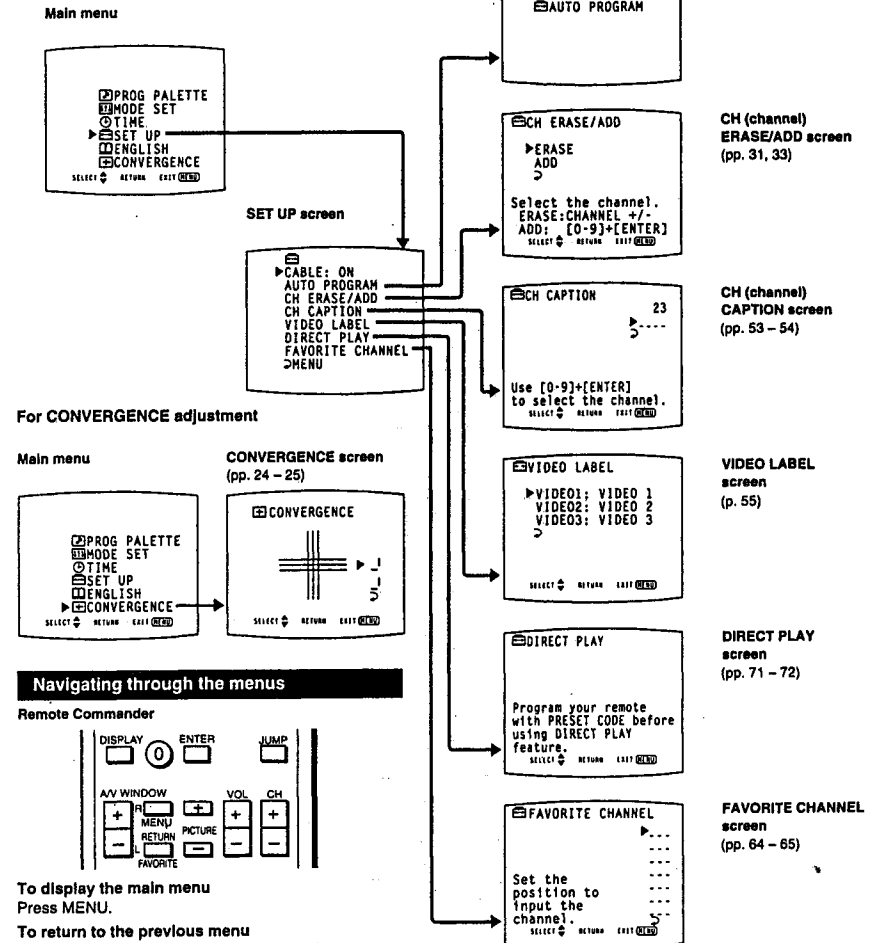


For time-related settings

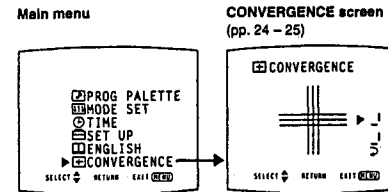


Note
Menu items that are shaded are inactive and cannot be selected.

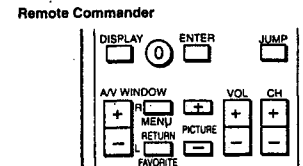
For presetting and other functions



For CONVERGENCE adjustment



Navigating through the menus



To display the main menu
Press MENU.

To return to the previous menu
Press A/V WINDOW +/- until the cursor points to " >MENU." Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

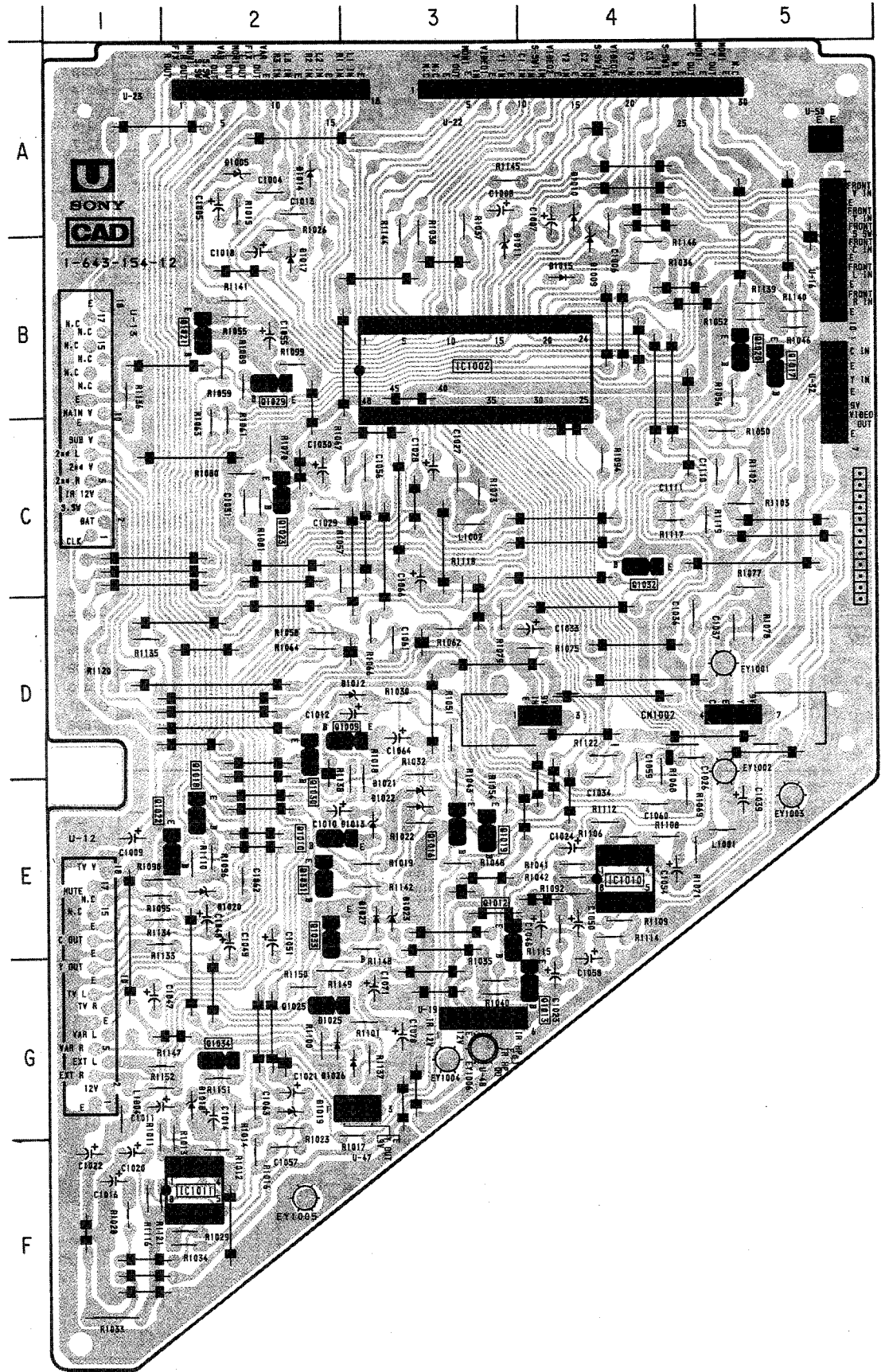
To return to the normal screen
Press MENU.

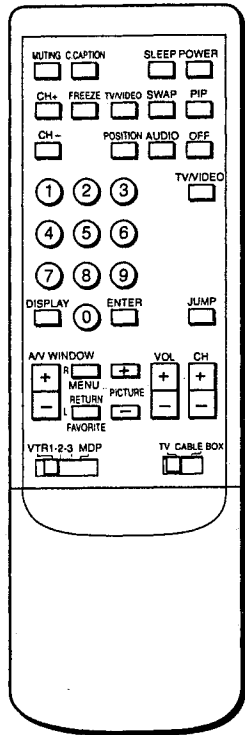
Note
The menus disappear automatically, if you do not press a button within 90 seconds.

U [AUDIO IN/OUT
VIDEO IN/OUT] **UT** [IN/OUT TERMINAL
SP. TERMINAL]

- U BOARD -

IC	
IC1002	B-3
IC1011	F-2
TRANSISTOR	
Q1009	D-2
Q1016	E-3
Q1017	B-5
Q1018	E-2
Q1019	E-3
Q1020	B-5
Q1021	B-2
Q1022	E-1
Q1023	C-2
Q1029	B-2
Q1030	D-2
Q1031	E-2
Q1032	C-4
Q1033	E-2
Q1034	G-2
DIODE	
D1005	A-2
D1009	B-4
D1010	A-4
D1011	B-3
D1012	D-3
D1013	E-3
D1015	B-4
D1017	B-2
D1018	G-2
D1019	G-2
D1020	E-2
D1021	E-3
D1022	E-3

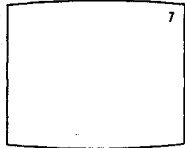




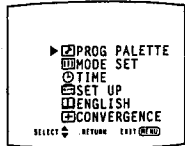
Changing the menu language

The menu language is factory-set to ENGLISH. Follow these instructions to change the menu language to Spanish or French, or back to English.

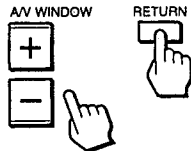
1 Press POWER to turn on the projection TV. *TIMER/STAND BY indicator blinks until the picture appears.*



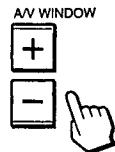
2 Press MENU. *The main menu appears.*



3 Press AV WINDOW +/- until the cursor points to "ENGLISH." Then press RETURN. *The language display turns red.*

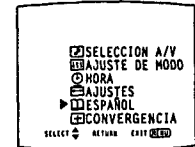


4 Press AV WINDOW +/- to select the language. *Each time you press AV WINDOW +/-, the "ESPAÑOL," "FRANÇAIS" and "ENGLISH" menus appear.*



Note
Certain parts of the "ESPAÑOL" and "FRANÇAIS" menus remain in English.

5 Press RETURN. *The language is selected.*

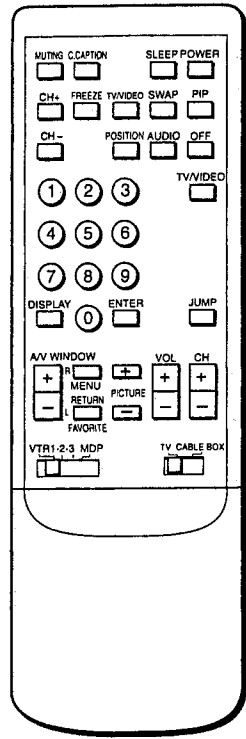


Spanish menu

To return to the normal screen. Press MENU.

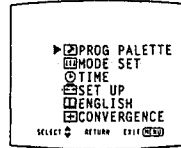
- Notes concerning menus**
- During PIP (Picture-in-Picture) mode, the on-screen menus may overlap the window picture.
 - The menus disappear automatically, if you do not press a button within 90 seconds.

Adjusting Color Registration (CONVERGENCE)

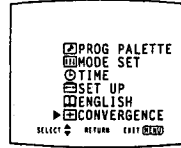
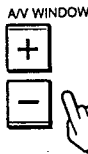


In a projection TV, the projection tube image appears on the screen in three color layers (red, green and blue). If these layers are not in proper registration, the color is poor and the picture blurs. To correct this, perform the CONVERGENCE adjustment.

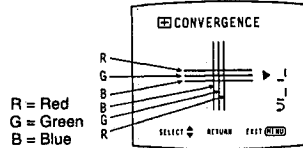
- 1** Press MENU.
The main menu appears.



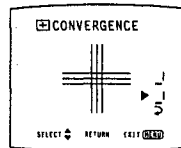
- 2** Press AV WINDOW +/- until the cursor points to "CONVERGENCE."



- 3** Press RETURN.
The CONVERGENCE screen and the colored adjustment lines appear.

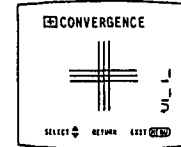


- 4** Press AV WINDOW +/- until the cursor points to the symbol representing the line you want to adjust (see the key below).

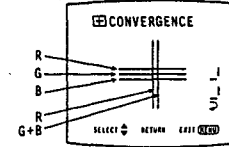
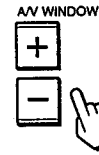


Adjustment line symbols key
 | (red vertical: left/right adjustment)
 — (red horizontal: up/down adjustment)
 | (blue vertical: left/right adjustment)
 — (blue horizontal: up/down adjustment)

- 5** Press RETURN.
The adjustment line is selected.



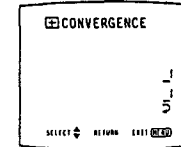
- 6** Press AV WINDOW +/- until the line converges with the center green line.
Then press RETURN.



To move up
To move right Press AV WINDOW +.

To move down
To move left Press AV WINDOW -.

- 7** Repeat steps 4 – 6 to adjust the other lines, until all the lines have overlapped to form a white cross.

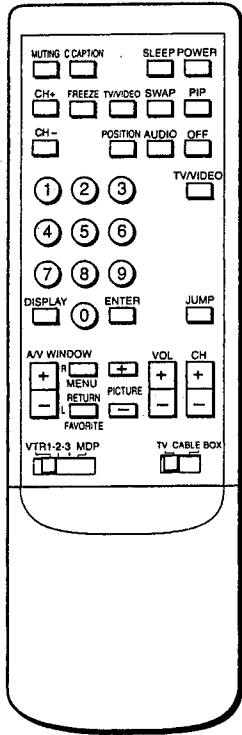


To return to the previous menu
Press AV WINDOW +/- until the cursor points to " > MENU." Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen.
Press MENU.

Setting CABLE ON or OFF



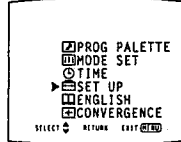
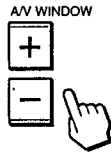
If you have cable connected to the projection TV, follow the steps below to set the cable connection on or off. Set CABLE OFF to preset or watch VHF or UHF channels, and set CABLE ON to preset or watch cable TV channels.

Note
If the projection TV is in video mode, the "CABLE" display is shaded and cannot be selected.
Press TV/VIDEO to change to TV mode.

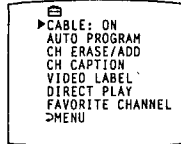
1 Press MENU.
The main menu appears.



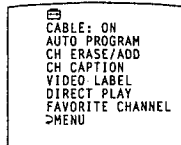
2 Press A/V WINDOW +/- until the cursor points to "SET UP."



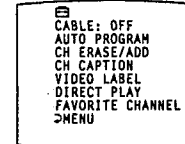
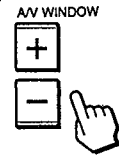
3 Press RETURN.
The set up menu appears, and the cursor points to "CABLE."



4 Press RETURN again.
The mode display turns red.



5 Press A/V WINDOW +/- to select "ON" or "OFF."



6 Press RETURN.
The setting is complete.



To return to the previous menu
Press A/V WINDOW +/- until the cursor points to "> MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen.
Press MENU.

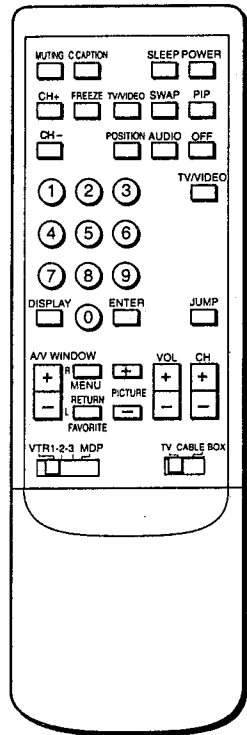
Cable TV channel chart*
Cable TV systems use letters or numbers to designate channels. To tune in a channel, refer to the chart below.

Number on this TV	Corresponding CATV channel
1	A-8
5	A-7
6	A-6
14	A
15	B
16	C
17	D
18	E
19	F
20	G
21	H
22	I
23	J
24	K
25	L
26	M
27	N
28	O
29	P
30	Q
31	R
32	S
33	T
34	U
35	V
36	W
37	W+1
38	W+2
39	W+3
.	.
.	.
.	.
.	.
93	W+57
94	W+58
95	A-5
96	A-4
97	A-3
98	A-2
99	A-1
100	W+59
101	W+60
102	W+61
.	.
.	.
.	.
.	.
123	W+82
124	W+83
125	W+84

Check with your local cable TV company for more complete information on the available channels.
* The designation of the cable TV channels conforms to the EIA/NCTA recommendation.

Presetting TV Channels

By presetting TV channels to the projection TV, you can select channels by pressing CH (CHANNEL) +/-.
(You can select VHF channels 2 - 13 without presetting.)



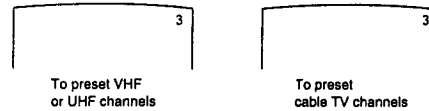
Presetting all receivable channels automatically

Follow these instructions to preset all the receivable VHF, UHF or cable TV channels to the projection TV.

Notes

- If the projection TV is in video mode, the "AUTO PROGRAM" display is shaded and cannot be selected. Press TV/VIDEO to change to TV mode.
- Perform auto programming during the day rather than late at night, when some channels may not be broadcasting.

1 Set the cable connection on or off (pp. 26 - 27) to select the type of channel you want to preset, VHF/UHF or cable TV.



2 Press MENU.
The main menu appears.



3 Press AV WINDOW +/- until the cursor points to "SET UP."



4 Press RETURN.
The set up menu appears.



5 Press AV WINDOW +/- until the cursor points to "AUTO PROGRAM."



6 Press RETURN.



"AUTO PROGRAM" appears on the screen and receivable channels (other than the channels already preset) are preset in numerical sequence. The channels previously preset will not remain in the projection TV's memory. When no more channels are found, auto programming stops and the screen returns automatically to the set up menu.

7 Press CH +/- to check or view the preset channels.



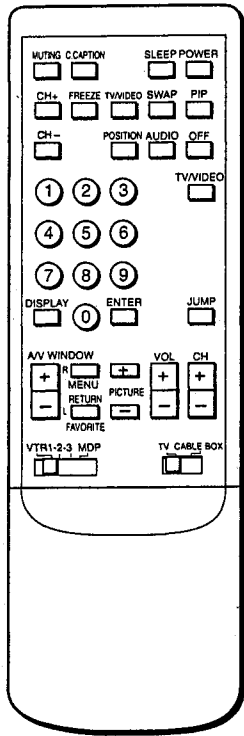
Receivable channels for this projection TV
VHF: 2 - 13
UHF: 14 - 69
Cable: 1 - 125

To select TV channels without presetting
Press the 0 - 9 buttons and ENTER.

To return to the previous menu
Press AV WINDOW +/- until the cursor points to "> MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

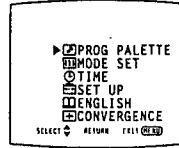
To return to the normal screen.
Press MENU.



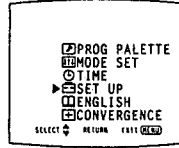
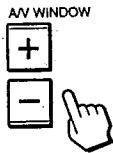
Erasing TV channels

Follow these instructions to erase unnecessary TV channels, so that when you press CH +/-, the channel(s) are skipped.

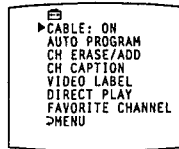
- 1 Press MENU
The main menu appears.



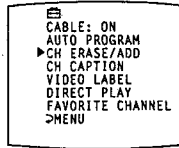
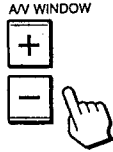
- 2 Press A/V WINDOW +/- until the cursor points to "SET UP."



- 3 Press RETURN
The set up menu appears.



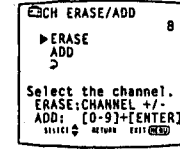
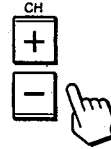
- 4 Press A/V WINDOW +/- until the cursor points to "CH ERASE/ADD."



- 5 Press RETURN.
The CH ERASE/ADD screen appears, and the cursor points to "ERASE."



- 6 Press CH +/- to select the channel you want to erase.
The channel display appears.



- 7 Press RETURN.
A "-" sign appears in front of the channel number display, indicating that the channel is erased; then the CH ERASE/ADD screen automatically reappears.



To erase another channel
Repeat steps 6 - 7.

To return to the previous menu
Press A/V WINDOW +/- until the cursor points to "MENU." Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU.

Note
If you erase a VHF or UHF channel, the same number cable TV channel is also erased (and vice versa).

SECTION 7 EXPLODED VIEWS

NOTE:

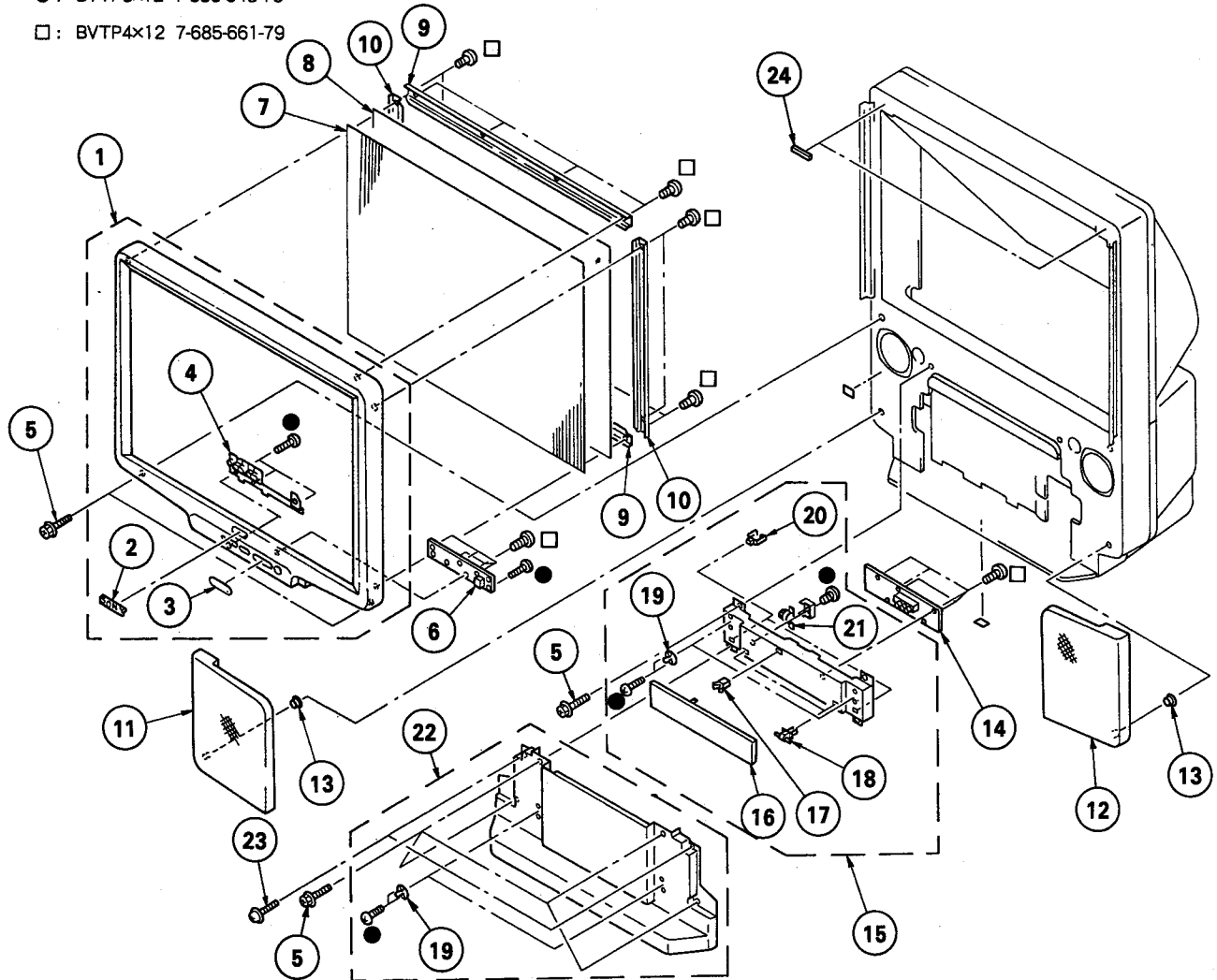
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine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

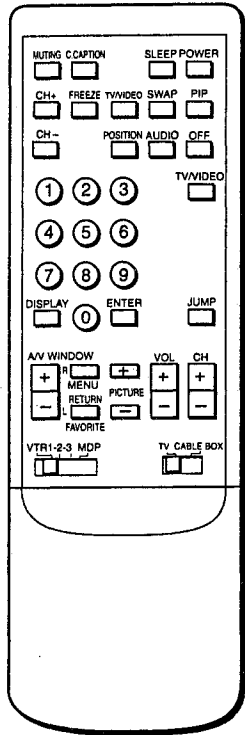
Les composants identifiés par une trame et une marque **▲** sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

7-1.SCREEN FRAME AND CONTROL PANEL

- : BVTP3×12 7-685-648-79
- : BVTP4×12 7-685-661-79



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
1	X-4031-192-1	FRAME ASSY, SCREEN	2~4	13	4-838-438-00	LATCH	
2	3-704-179-01	EMBLEM (NO.9), SONY		14	*1-643-592-11	H2 BOARD	
3	4-036-087-21	COVER, INDICATOR		15	X-4030-354-4	PANEL ASSY, CONTROL	16~21
4	4-033-779-11	BUTTON, CONTROL		16	4-033-794-11	LID, FRONT	
5	4-378-522-31	SCREW, TAPPING, HEXAGON HEAD		17	4-374-714-01	CATCH, PUSH	
6	*1-643-591-11	H1 BOARD		18	3-703-035-11	SHAFT, LID	
7	4-034-053-01	PLATE (L), DIFFUSION		19	4-843-806-00	STRIKE	
8	4-036-520-01	PLATE (F), DIFFUSION		20	*4-314-320-00	HOLDER, WIRE	
9	4-036-091-01	HOLDER (L), SCREEN		21	3-721-204-01	DAMPER	
10	4-036-092-01	HOLDER (S), SCREEN		22	X-4030-347-1	COVER ASSY, FRONT	19
11	X-4030-346-1	GRILLE (L) ASSY, SPEAKER		23	4-304-851-11	SCREW (4X25), (+) PWH TAPPING	
12	X-4030-348-1	GRILLE (R) ASSY, SPEAKER		24	4-039-110-01	SPACER (CA)	

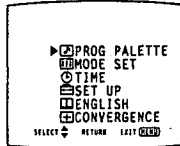


Adding TV channels

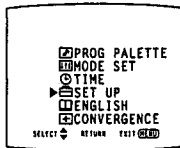
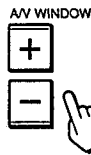
Follow these instructions to add TV channels one by one to the selection memory, or to replace a TV channel you previously erased (pp. 30 – 31).

1 Press MENU

The main menu appears.

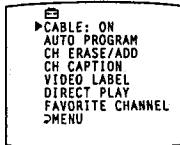


2 Press AV WINDOW +/- until the cursor points to "SET UP."

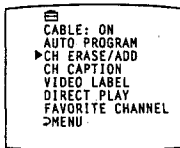
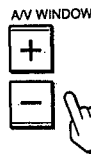


3 Press RETURN.

The set up menu appears.



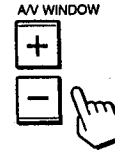
4 Press AV WINDOW +/- until the cursor points to "CH ERASE/ADD."



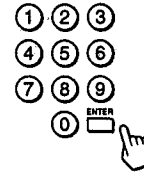
5 Press RETURN.
The CH ERASE/ADD screen appears.



6 Press AV WINDOW +/- until the cursor points to "ADD."



7 Press 0 – 9 and ENTER to select the channel you want to add.
The channel display appears.



8 Press RETURN.
A "+" sign appears in front of the channel number display, indicating that the channel is added; then the CH ERASE/ADD screen automatically reappears.



To add another channel
Repeat steps 7 – 8.

To return to the previous menu
Press AV WINDOW +/- until the cursor points to "> MENU."
Then press RETURN.

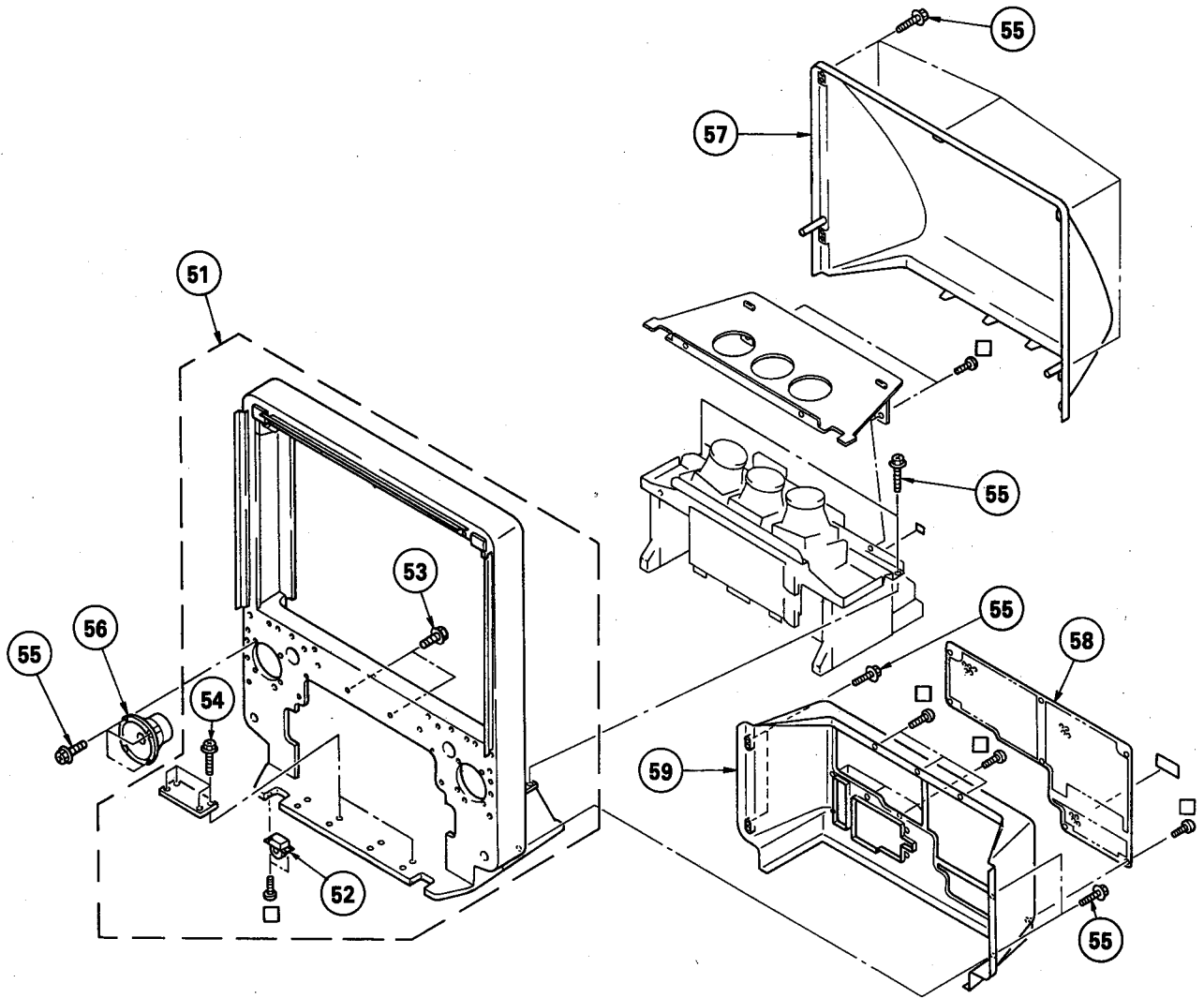
To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU.

Note
If you add a VHF or UHF channel, the same number cable TV channel is also added (and vice versa).

7-2.CABINET AND BACK COVER

□: BVTP4×12 7-685-661-79



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
51	*X-4031-104-1	CABINET ASSY		52~54	56	1-544-768-11	SPEAKER (13CM) (COAXIAL)
52	4-040-755-01	CASTER (DIA. 30)		57	4-036-136-01	COVER, MIRROR	
53	4-378-522-01	SCREW, TAPPING, HEXAGON HEAD		58	4-036-527-01	PLATE, REAR	
54	4-378-522-21	SCREW, TAPPING, HEXAGON HEAD		59	X-4030-402-1	COVER ASSY, BACK	
55	4-378-522-31	SCREW, TAPPING, HEXAGON HEAD					

SECTION 8 ELECTRICAL PARTS LIST

KP-41EXR96
RM-Y112A

A

NOTE:

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

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

• 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.

RESISTORS

• All resistors are in ohms
• F : nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS

• MF : μ F, PF : μ μ F

COILS

• MMH : mH, UH : μ H

• The components identified by \boxtimes in this manual 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.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
*A-1297-079-A		A BOARD, COMPLETE *****		C226	1-124-120-11	ELECT 220MF 20% 16V	
4-382-854-11		SCREW (M3X10), P, SW (+)		C227	1-124-621-11	ELECT 3300MF 20% 6.3V	
<CONNECTOR>				C299	1-126-101-11	ELECT 100MF 20% 16V	
A1	*1-564-514-11	PLUG, CONNECTOR 11P		C502	1-126-182-11	ELECT 0.47MF 20% 50V	
A2	*1-564-512-11	PLUG, CONNECTOR 9P		C503	1-130-487-00	MYLAR 0.022MF 5% 50V	
A3	*1-564-507-11	PLUG, CONNECTOR 4P		C504	1-136-153-00	FILM 0.01MF 5% 50V	
A4	*1-564-508-11	PLUG, CONNECTOR 5P		C507	1-106-383-00	MYLAR 0.047MF 200V	
A5	*1-564-511-11	PLUG, CONNECTOR 8P		C508	1-102-973-00	CERAMIC 100PF 5% 50V	
A10	*1-564-511-41	PLUG, CONNECTOR 8P		C509	1-102-030-00	CERAMIC 330PF 10% 500V	
A11	*1-564-511-31	PLUG, CONNECTOR 8P		C510 Δ	1-136-565-11	FILM 0.015MF 3% 1.4KV	
A12	1-573-297-11	CONNECTOR, BOARD TO BOARD 18P		C512 Δ	1-136-598-11	FILM 3MF 5% 200V	
A13	1-573-297-11	CONNECTOR, BOARD TO BOARD 18P		C513	1-136-153-00	FILM 0.01MF 5% 50V	
A14	*1-564-513-31	PLUG, CONNECTOR 10P		C514	1-124-477-11	ELECT 47MF 20% 16V	
A15	*1-564-508-11	PLUG, CONNECTOR 5P		C522	1-123-024-21	ELECT 33MF 160V	
A16	*1-564-508-11	PLUG, CONNECTOR 5P		C523	1-106-383-00	MYLAR 0.047MF 200V	
A17	*1-564-508-11	PLUG, CONNECTOR 5P		C528	1-124-662-11	ELECT 220MF 20% 50V	
A18	*1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P		C534	1-124-011-00	ELECT 220MF 20% 16V	
A19	*1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P		C535	1-124-011-00	ELECT 220MF 20% 16V	
A20	*1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P		C536	1-124-662-11	ELECT 220MF 20% 50V	
A21	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P		C537	1-124-662-11	ELECT 220MF 20% 50V	
A22	1-573-297-11	CONNECTOR, BOARD TO BOARD 18P		C539	1-124-907-11	ELECT 10MF 20% 50V	
A25	*1-564-506-11	PLUG, CONNECTOR 3P		C542	1-136-153-00	FILM 0.01MF 5% 50V	
A27	*1-573-979-11	CONNECTOR, BOARD TO BOARD 11P		C543	1-136-153-00	FILM 0.01MF 5% 50V	
A56	*1-564-508-11	PLUG, CONNECTOR 5P		C544	1-136-153-00	FILM 0.01MF 5% 50V	
<CAPACITOR>				C545	1-136-153-00	FILM 0.01MF 5% 50V	
C201	1-124-910-11	ELECT 47MF 20% 50V		C569	1-126-355-11	ELECT 33MF 20% 160V	
C202	1-124-903-11	ELECT 1MF 20% 50V		C1401	1-124-910-11	ELECT 47MF 20% 50V	
C203	1-130-495-00	MYLAR 0.1MF 5% 50V		C1402	1-126-157-11	ELECT 10MF 20% 16V	
C204	1-124-477-11	ELECT 47MF 20% 16V		C1403	1-126-157-11	ELECT 10MF 20% 16V	
C205	1-124-557-11	ELECT 1000MF 20% 25V		C1404	1-126-157-11	ELECT 10MF 20% 16V	
C206	1-126-101-11	ELECT 100MF 20% 16V		C1405	1-124-910-11	ELECT 47MF 20% 50V	
C207	1-124-242-00	ELECT 33MF 20% 16V		C1406	1-126-101-11	ELECT 100MF 20% 16V	
C210	1-102-121-00	CERAMIC 0.0022MF 10% 50V		C1407	1-126-057-11	ELECT 2200MF 20% 50V	
C212	1-126-803-11	ELECT 47MF 20% 16V		C1408	1-136-165-00	FILM 0.1MF 5% 50V	
C213	1-126-103-11	ELECT 470MF 20% 16V		C1409	1-136-165-00	FILM 0.1MF 5% 50V	
C214	1-126-101-11	ELECT 100MF 20% 16V		C1413	1-124-234-00	ELECT 22MF 20% 16V	
C215	1-126-803-11	ELECT 47MF 20% 50V		C1424	1-126-057-11	ELECT 2200MF 20% 50V	
C216	1-126-101-11	ELECT 100MF 20% 16V		C1425	1-126-057-11	ELECT 2200MF 20% 50V	
C217	1-126-803-11	ELECT 47MF 20% 25V		C1426	1-126-157-11	ELECT 10MF 20% 16V	
C218	1-126-103-11	ELECT 470MF 20% 16V		C1429	1-126-101-11	ELECT 100MF 20% 16V	
C219	1-124-443-00	ELECT 100MF 20% 10V		C1430	1-126-101-11	ELECT 100MF 20% 16V	
C220	1-126-803-11	ELECT 47MF 20% 25V		C1431	1-124-916-11	ELECT 22MF 20% 50V	
C223	1-126-803-11	ELECT 47MF 20% 25V		C1435	1-124-916-11	ELECT 22MF 20% 25V	
C224	1-124-261-00	ELECT 10MF 20% 50V		C1440	1-126-336-11	ELECT 220MF 20% 25V	
C225	1-124-120-11	ELECT 220MF 20% 16V		C1601	1-130-483-00	MYLAR 0.01MF 5% 50V	
				C1603	1-136-153-00	FILM 0.01MF 5% 50V	
				C1607	1-124-907-11	ELECT 10MF 20% 50V	
				C1608	1-136-153-00	FILM 0.01MF 5% 50V	
				C1609	1-136-153-00	FILM 0.01MF 5% 50V	
				C1610	1-124-916-11	ELECT 22MF 20% 50V	

A

Les composants identifiés par
une trame et une marque Δ
sont critiques pour la securite.
Ne les remplacer que par une
piece portant le numero specifique.

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

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<DIODE>							
D203	8-719-911-19	DIODE 1SS119		L502	1-459-313-00	COIL WITH CORE (HWC)	
D204	8-719-911-19	DIODE 1SS119		L515	1-410-645-31	INDUCTOR 100UH	
D205	8-719-110-36	DIODE RD13ES-B2		<TRANSISTOR>			
D206	8-719-911-19	DIODE 1SS119		Q201	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D207	8-719-911-19	DIODE 1SS119		Q202	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D208	8-719-911-19	DIODE 1SS119		Q203	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D209	8-719-911-19	DIODE 1SS119		Q501	8-729-119-80	TRANSISTOR 2SC2688-LK	
D211	8-719-110-36	DIODE RD13ES-B2		Q502	8-729-014-88	TRANSISTOR 2SC4891-CA	
D213	8-719-110-78	DIODE RD33ES-B2		Q504	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D214	8-719-911-19	DIODE 1SS119		Q505	8-729-201-32	TRANSISTOR 2SA1013-0	
D215	8-719-911-19	DIODE 1SS119		Q506	8-729-201-32	TRANSISTOR 2SA1013-0	
D216	8-719-911-19	DIODE 1SS119		Q507	8-729-304-92	TRANSISTOR 2SB649A-C	
D217	8-719-911-19	DIODE 1SS119		Q508	8-729-204-16	TRANSISTOR 2SA1301-0	
D219	8-719-911-19	DIODE 1SS119		Q509	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D220	8-719-510-48	DIODE DIN20R		Q510	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D221	8-719-911-19	DIODE 1SS119		Q511	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D222	8-719-911-19	DIODE 1SS119		Q512	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D223	8-719-911-19	DIODE 1SS119		Q1401	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D501	8-719-971-20	DIODE ERC38-06		Q1402	8-729-900-63	TRANSISTOR DTA124ES	
D502	8-719-971-20	DIODE ERC38-06		Q1407	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D503	8-719-300-80	DIODE RU-1C		Q1408	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D504	8-719-109-88	DIODE RD5.6ES-B1		Q1601	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D505	8-719-900-95	DIODE V09G		Q1602	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D506	8-719-900-95	DIODE V09G		Q1603	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D507	8-719-970-89	DIODE DD50R		Q1604	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D509	8-719-911-19	DIODE 1SS119		Q1605	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D510	8-719-109-71	DIODE RD3.9ES-B1		Q1606	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D511	8-719-911-19	DIODE 1SS119		Q1620	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D512	8-719-911-19	DIODE 1SS119		<RESISTOR>			
D513	8-719-911-19	DIODE 1SS119		R203	1-249-425-11	CARBON 4.7K 5%	1/4W
D514	8-719-911-19	DIODE 1SS119		R204	1-249-441-11	CARBON 100K 5%	1/4W
D515	8-719-911-19	DIODE 1SS119		R214	1-249-429-11	CARBON 10K 5%	1/4W
D1401	8-719-911-19	DIODE 1SS119		R215	1-249-437-11	CARBON 47K 5%	1/4W
D1402	8-719-911-19	DIODE 1SS119		R216	1-249-377-11	CARBON 0.47 5%	1/4W F
D1403	8-719-911-19	DIODE 1SS119		R219	1-249-426-11	CARBON 5.6K 5%	1/4W
D1404	8-719-110-88	DIODE RD39ES-B2		R221	1-249-409-11	CARBON 220 5%	1/4W
D1405	8-719-110-88	DIODE RD39ES-B2		R222	1-249-436-11	CARBON 39K 5%	1/4W
D1406	8-719-911-19	DIODE 1SS119		R223	1-249-434-11	CARBON 27K 5%	1/4W
D1407	8-719-110-88	DIODE RD39ES-B2		R224	1-249-409-11	CARBON 220 5%	1/4W
D1408	8-719-911-19	DIODE 1SS119		R225	1-249-417-11	CARBON 1K 5%	1/4W
D1409	8-719-110-88	DIODE RD39ES-B2		R229	1-216-488-11	METAL OXIDE 18K 5%	3W F
D1607	8-719-911-19	DIODE 1SS119		R231	1-249-409-91	CARBON 220 5%	1/4W F
D1608	8-719-911-19	DIODE 1SS119		R232	1-215-906-11	METAL OXIDE 15 5%	3W F
<IC>				R233	1-249-409-11	CARBON 220 5%	1/4W
IC201	8-749-920-58	IC SI-3090CA		R234	1-249-409-11	CARBON 220 5%	1/4W
IC204	8-759-171-05	IC UPC7805H		R235	1-249-409-11	CARBON 220 5%	1/4W
IC205	8-759-144-82	IC UPC2405HF		R236	1-249-409-11	CARBON 220 5%	1/4W
IC206	8-759-231-58	IC TA7812S		R237	1-249-409-11	CARBON 220 5%	1/4W
IC207	8-749-920-58	IC SI-3090CA		R238	1-249-409-11	CARBON 220 5%	1/4W
IC506	8-752-057-18	IC CXA1315P		R239	1-249-409-11	CARBON 220 5%	1/4W
IC1401	8-759-246-70	IC TA8216H		R240	1-215-906-11	METAL OXIDE 15 5%	3W F
IC1601	8-752-058-71	IC CXA1656S		R241	1-249-401-11	CARBON 47 5%	1/4W
<COIL>				R242	1-215-906-11	METAL OXIDE 15 5%	3W F
L201	1-408-429-00	INDUCTOR 470UH		R243	1-217-294-00	WIREWOUND 4.7 10%	5W F
L205	1-410-645-31	INDUCTOR 100UH		R244	1-207-676-00	WIREWOUND 6.8 10%	5W F
L206	1-408-416-00	INDUCTOR 39UH		R296	1-249-417-11	CARBON 1K 5%	1/4W
L212	1-410-312-11	INDUCTOR 0.22UH		R501	1-247-895-00	CARBON 470K 5%	1/4W
L501	1-460-196-11	COIL, HORIZONTAL LINEARITY		R502	1-249-377-11	CARBON 0.47 5%	1/4W F
				R503	1-249-377-11	CARBON 0.47 5%	1/4W F
				R504	1-249-417-11	CARBON 1K 5%	1/4W

P1

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C3024	1-163-018-00	CERAMIC CHIP 0.0056MF	10%	50V	IC3004	8-759-088-90	IC SDA9187X
C3025	1-164-343-11	CERAMIC CHIP 0.056MF	10%	25V	IC3005	8-759-088-91	IC SDA9188X
C3026	1-126-163-11	ELECT 4.7MF	20%	50V	IC3006	8-759-112-06	IC UPC78N05H
C3027	1-163-275-11	CERAMIC CHIP 0.001MF	5%	50V	IC3007	8-759-046-27	IC SDA9086-3
C3028	1-124-589-11	ELECT 47MF	20%	16V	IC3008	8-759-112-06	IC UPC78N05H
C3029	1-163-133-00	CERAMIC CHIP 470PF	5%	50V			
C3030	1-163-037-11	CERAMIC CHIP 0.022MF	10%	25V			
C3031	1-126-177-11	ELECT 100MF	20%	6.3V			
C3032	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V			
C3033	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V			
C3034	1-164-336-11	CERAMIC CHIP 0.33MF		25V			
C3035	1-163-117-00	CERAMIC CHIP 100PF	5%	50V			
C3036	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V			
C3037	1-124-589-11	ELECT 47MF	20%	16V			
C3038	1-136-287-11	FILM 0.0047MF	5%	50V			
C3039	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V			
C3040	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V			
C3042	1-164-346-11	CERAMIC CHIP 1MF		16V			
C3043	1-124-465-00	ELECT 0.47MF	20%	50V			
C3044	1-126-301-11	ELECT 1MF	20%	50V			
C3045	1-124-589-11	ELECT 47MF	20%	16V			
C3046	1-126-301-11	ELECT 1MF	20%	50V			
C3047	1-126-301-11	ELECT 1MF	20%	50V			
C3048	1-164-161-11	CERAMIC CHIP 0.0022MF	10%	50V			
C3051	1-164-161-11	CERAMIC CHIP 0.0022MF	10%	50V			
C3052	1-126-177-11	ELECT 100MF	20%	6.3V			
C3053	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V			
C3054	1-126-177-11	ELECT 100MF	20%	6.3V			
C3055	1-163-133-00	CERAMIC CHIP 470PF	5%	50V			
C3057	1-124-589-11	ELECT 47MF	20%	16V			
C3058	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V			
C3059	1-164-222-11	CERAMIC CHIP 0.22MF		25V			
C3060	1-124-589-11	ELECT 47MF	20%	16V			
C3064	1-163-123-00	CERAMIC CHIP 180PF	5%	50V			
C3065	1-124-589-11	ELECT 47MF	20%	16V			
C3066	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V			
C3067	1-124-589-11	ELECT 47MF	20%	16V			
C3069	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V			
C3070	1-126-177-11	ELECT 100MF	20%	6.3V			
C3071	1-124-589-11	ELECT 47MF	20%	16V			
C3072	1-124-589-11	ELECT 47MF	20%	16V			
C3073	1-124-589-11	ELECT 47MF	20%	16V			
C3074	1-163-121-00	CERAMIC CHIP 150PF	5%	50V			
C3076	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V			
C3077	1-164-005-11	CERAMIC CHIP 0.47MF		25V			
C3081	1-163-095-00	CERAMIC CHIP 12PF	5%	50V			
C3100	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V			
C3101	1-162-926-11	CERAMIC CHIP 82PF	5%	50V			
		<CONNECTOR>					
CN151	1-573-965-21	PIN, CONNECTOR (PC BOARD) 50P					
		<DIODE>					
D3003	8-719-158-15	DIODE RD5.6S-B					
D3004	8-719-404-46	DIODE MA110					
D3009	8-719-404-46	DIODE MA110					
		<IC>					
IC3001	8-759-046-25	IC TDA3769					
IC3002	8-759-009-46	IC MC14528BF					
IC3003	8-759-513-48	IC TDA2595/V9					
		<COIL>					
L3001	1-410-476-11	INDUCTOR		33UH			
L3002	1-408-424-00	INDUCTOR		180UH			
L3003	1-408-424-00	INDUCTOR		180UH			
L3004	1-410-470-11	INDUCTOR		10UH			
L3005	1-410-472-41	INDUCTOR		15UH			
L3006	1-412-788-41	INDUCTOR		10UH			
L3007	1-410-472-41	INDUCTOR		15UH			
L3008	1-410-472-41	INDUCTOR		15UH			
L3009	1-410-472-41	INDUCTOR		15UH			
L3010	1-410-466-41	INDUCTOR		4.7UH			
L3011	1-410-470-11	INDUCTOR		10UH			
L3012	1-410-676-31	INDUCTOR		150UH			
L3013	1-412-911-11	INDUCTOR, FERRITE BEAD					
L3014	1-412-911-11	INDUCTOR, FERRITE BEAD					
L3015	1-412-911-11	INDUCTOR, FERRITE BEAD					
L3100	1-412-799-41	INDUCTOR		82UH			
		<TRANSISTOR>					
Q3003	8-729-216-22	TRANSISTOR 2SA1162-G					
Q3004	8-729-422-27	TRANSISTOR 2SD601A-Q					
Q3006	8-729-422-27	TRANSISTOR 2SD601A-Q					
Q3007	8-729-216-22	TRANSISTOR 2SA1162-G					
Q3008	8-729-422-27	TRANSISTOR 2SD601A-Q					
Q3009	8-729-216-22	TRANSISTOR 2SA1162-G					
Q3010	8-729-422-27	TRANSISTOR 2SD601A-Q					
Q3011	8-729-216-22	TRANSISTOR 2SA1162-G					
Q3012	8-729-422-27	TRANSISTOR 2SD601A-Q					
Q3013	8-729-422-27	TRANSISTOR 2SD601A-Q					
Q3014	8-729-422-27	TRANSISTOR 2SD601A-Q					
Q3100	8-729-216-22	TRANSISTOR 2SA1162-G					
		<RESISTOR>					
JR3	1-216-295-00	METAL GLAZE	0	5%	1/10W		
R3001	1-216-085-00	METAL GLAZE	33K	5%	1/10W		
R3002	1-216-089-00	METAL GLAZE	47K	5%	1/10W		
R3003	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W		
R3004	1-216-091-00	METAL GLAZE	56K	5%	1/10W		
R3005	1-216-689-11	METAL GLAZE	39K	5%	1/10W		
R3006	1-216-097-00	METAL GLAZE	100K	5%	1/10W		
R3007	1-216-079-00	METAL GLAZE	18K	5%	1/10W		
R3008	1-216-073-00	METAL GLAZE	10K	5%	1/10W		
R3009	1-216-041-00	METAL GLAZE	470	5%	1/10W		
R3010	1-216-049-00	METAL GLAZE	1K	5%	1/10W		
R3011	1-216-073-00	METAL GLAZE	10K	5%	1/10W		
R3012	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W		
R3013	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W		
R3014	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W		
R3015	1-216-049-00	METAL GLAZE	1K	5%	1/10W		
R3017	1-216-083-00	METAL GLAZE	27K	5%	1/10W		
R3018	1-216-097-00	METAL GLAZE	100K	5%	1/10W		
R3019	1-216-077-00	METAL GLAZE	15K	5%	1/10W		
R3020	1-216-099-00	METAL GLAZE	120K	5%	1/10W		
R3021	1-216-075-00	METAL GLAZE	12K	5%	1/10W		



REF. NO.	PART NO.	DESCRIPTION	REMARK
R3023	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R3025	1-216-015-00	METAL GLAZE 39 5%	1/10W
R3026	1-216-041-00	METAL GLAZE 470 5%	1/10W
R3027	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
R3028	1-216-027-00	METAL GLAZE 120 5%	1/10W
R3030	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R3031	1-216-047-00	METAL GLAZE 820 5%	1/10W
R3032	1-216-041-00	METAL GLAZE 470 5%	1/10W
R3033	1-216-295-00	METAL GLAZE 0 5%	1/10W
R3034	1-216-041-00	METAL GLAZE 470 5%	1/10W
R3035	1-216-045-00	METAL GLAZE 680 5%	1/10W
R3036	1-216-045-00	METAL GLAZE 680 5%	1/10W
R3037	1-216-083-00	METAL GLAZE 27K 5%	1/10W
R3038	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R3039	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R3040	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R3041	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R3042	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R3043	1-216-099-00	METAL GLAZE 120K 5%	1/10W
R3044	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R3045	1-216-295-00	METAL GLAZE 0 5%	1/10W
R3050	1-216-033-00	METAL GLAZE 220 5%	1/10W
R3052	1-216-033-00	METAL GLAZE 220 5%	1/10W
R3053	1-216-037-00	METAL GLAZE 330 5%	1/10W
R3055	1-216-063-00	METAL GLAZE 3.9K 5%	1/10W
R3056	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W
R3057	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R3058	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R3059	1-216-079-00	METAL GLAZE 18K 5%	1/10W
R3060	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R3061	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R3062	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R3063	1-216-025-00	METAL GLAZE 100 5%	1/10W
R3064	1-216-295-00	METAL GLAZE 0 5%	1/10W
R3065	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R3066	1-216-053-00	METAL GLAZE 1.5K 5%	1/10W
R3067	1-216-295-00	METAL GLAZE 0 5%	1/10W
R3069	1-216-689-11	METAL GLAZE 39K 5%	1/10W
R3071	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R3073	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R3074	1-216-295-00	METAL GLAZE 0 5%	1/10W
R3075	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R3076	1-216-043-00	METAL GLAZE 560 5%	1/10W
R3077	1-216-037-00	METAL GLAZE 330 5%	1/10W
R3078	1-216-044-00	METAL GLAZE 620 5%	1/10W
R3079	1-216-040-00	METAL GLAZE 430 5%	1/10W
R3082	1-216-029-00	METAL GLAZE 150 5%	1/10W
R3084	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R3085	1-216-119-00	METAL GLAZE 820K 5%	1/10W
R3086	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R3087	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R3088	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R3089	1-216-033-00	METAL GLAZE 220 5%	1/10W
R3090	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R3091	1-216-053-00	METAL GLAZE 1.5K 5%	1/10W
R3092	1-216-053-00	METAL GLAZE 1.5K 5%	1/10W
R3098	1-216-296-00	METAL GLAZE 0 5%	1/8W
R3099	1-216-296-00	METAL GLAZE 0 5%	1/8W
R3100	1-216-296-00	METAL GLAZE 0 5%	1/8W
R3101	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W
R3102	1-216-047-00	METAL GLAZE 820 5%	1/10W
R3103	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R3104	1-216-049-00	METAL GLAZE 1K 5%	1/10W

REF. NO.	PART NO.	DESCRIPTION	REMARK
<VARIABLE RESISTOR>			
RV3001	1-241-630-11	RES, ADJ, CARBON 10K	
RV3002	1-238-019-11	RES, ADJ, CARBON 47K	
RV3003	1-241-630-11	RES, ADJ, CARBON 10K	
<CRYSTAL>			
X3001	1-567-505-11	OSCILLATOR, CRYSTAL	

*A-1306-436-A M BOARD, COMPLETE			

<CAPACITOR>			
C001	1-124-261-00	ELECT 10MF	20% 50V
C002	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C003	1-136-161-00	FILM 0.047MF	5% 50V
C004	1-126-301-11	ELECT 1MF	20% 50V
C005	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C014	1-124-910-11	ELECT 47MF	20% 50V
C017	1-124-589-11	ELECT 47MF	20% 16V
C018	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C019	1-164-695-11	CERAMIC CHIP 0.0022MF	5% 50V
C020	1-163-241-11	CERAMIC CHIP 39PF	5% 50V
C021	1-163-239-11	CERAMIC CHIP 33PF	5% 50V
C029	1-163-115-00	CERAMIC CHIP 82PF	5% 50V
C030	1-163-115-00	CERAMIC CHIP 82PF	5% 50V
C034	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C035	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C036	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C041	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C042	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C045	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C047	1-124-261-00	ELECT 10MF	20% 50V
C048	1-124-261-00	ELECT 10MF	20% 50V
C049	1-124-261-00	ELECT 10MF	20% 50V
C055	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V
C064	1-163-121-00	CERAMIC CHIP 150PF	5% 50V
C065	1-124-257-00	ELECT 2.2MF	20% 50V
<DIODE>			
D001	8-719-404-46	DIODE MA110	
D002	8-719-404-46	DIODE MA110	
D009	8-719-404-46	DIODE MA110	
D010	8-713-300-57	DIODE 1T33	
D011	8-719-404-46	DIODE MA110	
D012	8-719-404-46	DIODE MA110	
D014	8-719-404-46	DIODE MA110	
D015	8-719-404-46	DIODE MA110	
<IC>			
IC001	8-759-169-06	IC TMC73C247-10	
IC002	8-759-403-44	IC MN1280-S	
<COIL>			
L001	1-408-409-00	INDUCTOR 10UH	
L002	1-410-476-11	INDUCTOR 33UH	

M E2

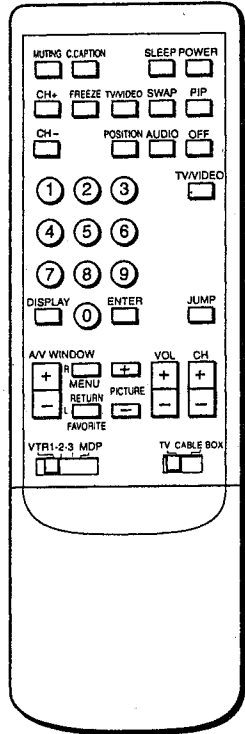
REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<CONNECTOR>							
M001	1-573-965-21	PIN, CONNECTOR (PC BOARD) 50P		R063	1-216-033-00	METAL GLAZE 220 5%	1/10W
M39	*1-564-521-11	PLUG, CONNECTOR 6P		R064	1-216-053-00	METAL GLAZE 1.5K 5%	1/10W
M45	*1-564-523-31	PLUG, CONNECTOR 8P		R065	1-216-033-00	METAL GLAZE 220 5%	1/10W
				R066	1-216-033-00	METAL GLAZE 220 5%	1/10W
<TRANSISTOR>							
Q001	8-729-216-22	TRANSISTOR 2SA1162-G		R067	1-216-033-00	METAL GLAZE 220 5%	1/10W
Q009	8-729-422-27	TRANSISTOR 2SD601A-Q		R068	1-216-033-00	METAL GLAZE 220 5%	1/10W
Q010	8-729-422-27	TRANSISTOR 2SD601A-Q		R069	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q011	8-729-422-27	TRANSISTOR 2SD601A-Q		R070	1-216-033-00	METAL GLAZE 220 5%	1/10W
Q012	8-729-422-27	TRANSISTOR 2SD601A-Q		R071	1-216-033-00	METAL GLAZE 220 5%	1/10W
Q013	8-729-216-22	TRANSISTOR 2SA1162-G		R072	1-216-033-00	METAL GLAZE 220 5%	1/10W
Q014	8-729-422-27	TRANSISTOR 2SD601A-Q		R073	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
				R074	1-216-033-00	METAL GLAZE 220 5%	1/10W
				R075	1-216-033-00	METAL GLAZE 220 5%	1/10W
				R076	1-216-089-00	METAL GLAZE 47K 5%	1/10W
<RESISTOR>							
R001	1-216-045-00	METAL GLAZE 680 5%	1/10W	R077	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R002	1-216-097-00	METAL GLAZE 100K 5%	1/10W	R078	1-216-033-00	METAL GLAZE 220 5%	1/10W
R003	1-216-121-00	METAL GLAZE 1M 5%	1/10W	R079	1-216-025-00	METAL GLAZE 100 5%	1/10W
R004	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R080	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
R005	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R081	1-216-033-00	METAL GLAZE 220 5%	1/10W
R006	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R082	1-216-033-00	METAL GLAZE 220 5%	1/10W
R007	1-216-027-00	METAL GLAZE 120 5%	1/10W	R083	1-216-033-00	METAL GLAZE 220 5%	1/10W
R008	1-216-041-00	METAL GLAZE 470 5%	1/10W	R084	1-216-097-00	METAL GLAZE 100K 5%	1/10W
R009	1-216-027-00	METAL GLAZE 120 5%	1/10W	R085	1-216-033-00	METAL GLAZE 220 5%	1/10W
R011	1-216-033-00	METAL GLAZE 220 5%	1/10W	R086	1-216-033-00	METAL GLAZE 220 5%	1/10W
R012	1-216-033-00	METAL GLAZE 220 5%	1/10W	R087	1-216-033-00	METAL GLAZE 220 5%	1/10W
R013	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W	R088	1-216-033-00	METAL GLAZE 220 5%	1/10W
R014	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R089	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R015	1-216-089-00	METAL GLAZE 47K 5%	1/10W	R090	1-216-033-00	METAL GLAZE 220 5%	1/10W
R016	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W	R091	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R017	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W	R092	1-216-077-00	METAL GLAZE 15K 5%	1/10W
R018	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R093	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R019	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R094	1-216-033-00	METAL GLAZE 220 5%	1/10W
R033	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R095	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R034	1-216-033-00	METAL GLAZE 220 5%	1/10W	R096	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R035	1-216-033-00	METAL GLAZE 220 5%	1/10W	R097	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R036	1-216-033-00	METAL GLAZE 220 5%	1/10W	R098	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R037	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R099	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R038	1-216-033-00	METAL GLAZE 220 5%	1/10W	R100	1-216-025-00	METAL GLAZE 100 5%	1/10W
R039	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R101	1-216-025-00	METAL GLAZE 100 5%	1/10W
R040	1-216-089-00	METAL GLAZE 47K 5%	1/10W	R102	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R041	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R103	1-216-033-00	METAL GLAZE 220 5%	1/10W
R042	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R104	1-216-033-00	METAL GLAZE 220 5%	1/10W
R043	1-216-033-00	METAL GLAZE 220 5%	1/10W				
R044	1-216-033-00	METAL GLAZE 220 5%	1/10W	<CRYSTAL>			
R045	1-216-025-00	METAL GLAZE 100 5%	1/10W	X001	1-579-743-11	VIBRATOR, CRYSTAL	
R046	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	*****			
R047	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W		*A-1346-137-A	E2 BOARD, COMPLETE	
R048	1-216-033-00	METAL GLAZE 220 5%	1/10W			*****	
R049	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	<CAPACITOR>			
R050	1-216-295-00	METAL GLAZE 0 5%	1/10W	C2302	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
R051	1-216-033-00	METAL GLAZE 220 5%	1/10W	C2303	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
R052	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	C2310	1-163-105-00	CERAMIC CHIP 33PF	5% 50V
R053	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	C2314	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
R054	1-216-073-00	METAL GLAZE 10K 5%	1/10W	C2315	1-126-157-11	ELBCT 10MF	20% 16V
R055	1-216-073-00	METAL GLAZE 10K 5%	1/10W	C2316	1-126-157-11	ELECT 10MF	20% 16V
R056	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	C2317	1-126-157-11	ELBCT 10MF	20% 16V
R057	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	C2318	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
R058	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	C2320	1-124-589-11	ELECT 47MF	20% 16V
R059	1-216-073-00	METAL GLAZE 10K 5%	1/10W	C2321	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
R060	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W				



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C2322	1-124-234-00	ELECT 22MF	20% 16V	Q2305	8-729-903-10	TRANSISTOR FMW1	
C2323	1-124-234-00	ELECT 22MF	20% 16V	Q2306	8-729-403-27	TRANSISTOR XN4401	
C2324	1-124-234-00	ELECT 22MF	20% 16V	Q2307	8-729-403-27	TRANSISTOR XN4401	
C2325	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	Q2308	8-729-403-27	TRANSISTOR XN4401	
C2326	1-124-589-11	ELECT 47MF	20% 16V	Q2309	8-729-903-10	TRANSISTOR FMW1	
C2327	1-164-505-11	CERAMIC CHIP 2.2MF	16V	Q2310	8-729-403-27	TRANSISTOR XN4401	
C2328	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	Q2311	8-729-903-10	TRANSISTOR FMW1	
C2329	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	Q2312	8-729-403-27	TRANSISTOR XN4401	
C2331	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	Q2313	8-729-903-10	TRANSISTOR FMW1	
C2332	1-124-234-00	ELECT 22MF	20% 16V	Q2314	8-729-403-27	TRANSISTOR XN4401	
C2333	1-124-234-00	ELECT 22MF	20% 16V	Q2315	8-729-903-10	TRANSISTOR FMW1	
C2334	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	Q2317	8-729-216-22	TRANSISTOR 2SA1162-G	
C2335	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	Q2318	8-729-216-22	TRANSISTOR 2SA1162-G	
C2336	1-126-163-11	ELECT 4.7MF	20% 16V	Q2319	8-729-216-22	TRANSISTOR 2SA1162-G	
C2337	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	Q2320	8-729-422-27	TRANSISTOR 2SD601A-Q	
C2338	1-163-038-00	CERAMIC CHIP 0.1MF	25V	Q2321	8-729-422-27	TRANSISTOR 2SD601A-Q	
C2340	1-216-133-00	METAL GLAZE 3.3M	5% 1/10W	Q2322	8-729-422-27	TRANSISTOR 2SD601A-Q	
C2341	1-135-217-21	TANTAL. CHIP 15MF	20% 6.3V	Q2324	8-729-216-22	TRANSISTOR 2SA1162-G	
C2345	1-164-505-11	CERAMIC CHIP 2.2MF	16V	Q2326	8-729-422-27	TRANSISTOR 2SD601A-Q	
C2346	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	Q2327	8-729-422-27	TRANSISTOR 2SD601A-Q	
C2347	1-163-367-11	CERAMIC CHIP 39PF	5% 50V	Q2328	8-729-925-79	TRANSISTOR 1MX3	
C2349	1-164-505-11	CERAMIC CHIP 2.2MF	16V	Q2329	8-729-925-79	TRANSISTOR 1MX3	
C2350	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	Q2330	8-729-903-10	TRANSISTOR FMW1	
C2351	1-164-505-11	CERAMIC CHIP 2.2MF	16V	Q2336	8-729-925-79	TRANSISTOR 1MX3	
C2352	1-164-505-11	CERAMIC CHIP 2.2MF	16V	Q2337	8-729-925-79	TRANSISTOR 1MX3	
C2353	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	Q2339	8-729-422-27	TRANSISTOR 2SD601A-Q	
C2354	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	Q2340	8-729-422-27	TRANSISTOR 2SD601A-Q	
C2357	1-126-301-11	ELECT 1MF	20% 50V	Q2341	8-729-422-27	TRANSISTOR 2SD601A-Q	
C2360	1-163-109-00	CERAMIC CHIP 47PF	5% 50V				
<DIODE>				<RESISTOR>			
D2306	8-719-404-46	DIODE MA110		R2302	1-216-049-00	METAL GLAZE 1K	5% 1/10W
D2307	8-719-946-98	DIODE FMN1		R2303	1-216-049-00	METAL GLAZE 1K	5% 1/10W
D2308	8-719-946-98	DIODE FMN1		R2304	1-216-049-00	METAL GLAZE 1K	5% 1/10W
D2309	8-719-404-46	DIODE MA110		R2305	1-216-033-00	METAL GLAZE 220	5% 1/10W
D2312	8-719-404-46	DIODE MA110		R2306	1-216-045-00	METAL GLAZE 680	5% 1/10W
D2313	8-719-404-46	DIODE MA110		R2307	1-216-045-00	METAL GLAZE 680	5% 1/10W
D2314	8-713-300-57	DIODE IT33		R2308	1-216-045-00	METAL GLAZE 680	5% 1/10W
D2317	8-719-404-46	DIODE MA110		R2309	1-216-041-00	METAL GLAZE 470	5% 1/10W
<CONNECTOR>				R2310	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W
E2-002	1-573-965-21	PIN, CONNECTOR (PC BOARD) 50P		R2311	1-216-025-00	METAL GLAZE 100	5% 1/10W
E2-25	*1-564-521-31	PLUG, CONNECTOR 6P		R2312	1-216-043-00	METAL GLAZE 560	5% 1/10W
E2-26	*1-564-522-11	PLUG, CONNECTOR 7P		R2313	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W
E2-46	*1-564-518-11	PLUG, CONNECTOR 3P		R2314	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
<IC>				R2315	1-216-081-00	METAL GLAZE 22K	5% 1/10W
IC2301	8-759-066-52	IC PCA8510T/012-T		R2317	1-216-041-00	METAL GLAZE 470	5% 1/10W
IC2303	8-759-925-75	IC SN74HC05ANS		R2318	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W
IC2304	8-752-037-15	IC CXA1387S		R2319	1-216-079-00	METAL GLAZE 18K	5% 1/10W
IC2306	8-759-011-65	IC MC74HC4053P		R2320	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
IC2307	8-752-058-68	IC CXA1315M		R2321	1-216-063-00	METAL GLAZE 3.9K	5% 1/10W
<COIL>				R2322	1-216-049-00	METAL GLAZE 1K	5% 1/10W
L2304	1-408-414-00	INDUCTOR 27UH		R2323	1-216-067-00	METAL GLAZE 5.6K	5% 1/10W
<TRANSISTOR>				R2324	1-216-049-00	METAL GLAZE 1K	5% 1/10W
Q2301	8-729-903-10	TRANSISTOR FMW1		R2325	1-216-049-00	METAL GLAZE 1K	5% 1/10W
Q2303	8-729-403-27	TRANSISTOR XN4401		R2326	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
Q2304	8-729-925-79	TRANSISTOR 1MX3		R2327	1-216-063-00	METAL GLAZE 3.9K	5% 1/10W
				R2328	1-216-025-00	METAL GLAZE 100	5% 1/10W
				R2329	1-216-025-00	METAL GLAZE 100	5% 1/10W
				R2330	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
				R2331	1-216-063-00	METAL GLAZE 3.9K	5% 1/10W
				R2332	1-216-025-00	METAL GLAZE 100	5% 1/10W
				R2333	1-216-067-00	METAL GLAZE 5.6K	5% 1/10W
				R2334	1-216-295-00	METAL GLAZE 0	5% 1/10W

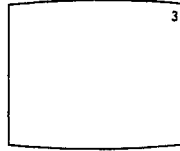
Chapter 2: Using Basic Features

Watching TV Programs



Make sure that the TV/CABLE BOX selector on the Remote Commander is set to TV, in order to control the projection TV with the Remote Commander.

- 1** Press **POWER** to turn on the projection TV.
TIMER/STAND BY indicator blinks until the picture appears.



- 2** Set the cable connection on or off (pp. 26 – 27) to select the type of channel you want to watch, VHF/UHF or cable TV.

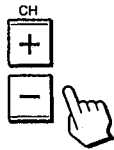


To watch VHF or UHF channels

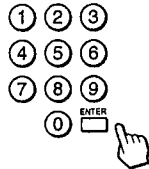


To watch cable TV channels

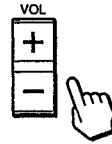
- 3** Select a channel in one of the following two ways:
 To scan the preset channels in numerical sequence, press **CH +/-**.



To select a channel directly, press 0 – 9 and then **ENTER**.
 For example, to select channel 10, press 1, 0 and **ENTER**.



- 4** Press **VOL +/-** to adjust the volume.



Press + to increase the volume.
 Press - to decrease the volume.

If **VIDEO 1**, **VIDEO 2** or **VIDEO 3** appears on the screen
 Press **TV/VIDEO** until a TV channel number appears.

To select channels more easily
 Set **FAVORITE CHANNEL** (pp. 64 – 65).
 To turn off the projection TV
 Press **POWER**.

E2

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R2335	1-216-295-00	METAL GLAZE	0 5% 1/10W	R3310	1-216-001-00	METAL GLAZE	10 5% 1/10W
R2336	1-216-295-00	METAL GLAZE	0 5% 1/10W	R3311	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R2337	1-216-033-00	METAL GLAZE	220 5% 1/10W	R3312	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R2338	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R3313	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R2340	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R3314	1-216-689-11	METAL GLAZE	39K 5% 1/10W
R2341	1-216-041-00	METAL GLAZE	470 5% 1/10W	R3315	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R2342	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R3316	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R2343	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R3318	1-216-095-00	METAL GLAZE	82K 5% 1/10W
R2344	1-216-033-00	METAL GLAZE	220 5% 1/10W	R3319	1-216-095-00	METAL GLAZE	82K 5% 1/10W
R2345	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R3320	1-216-017-00	METAL GLAZE	47 5% 1/10W
R2346	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R3321	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R2347	1-216-083-00	METAL GLAZE	27K 5% 1/10W	R3322	1-216-101-00	METAL GLAZE	150K 5% 1/10W
R2348	1-216-655-11	METAL CHIP	1.5K 0.50% 1/10W	R3324	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R2349	1-216-025-00	METAL GLAZE	100 5% 1/10W	R3325	1-216-025-00	METAL GLAZE	100 5% 1/10W
R2350	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R3328	1-216-001-00	METAL GLAZE	10 5% 1/10W
R2351	1-216-033-00	METAL GLAZE	220 5% 1/10W	R3330	1-216-033-00	METAL GLAZE	220 5% 1/10W
R2352	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R3331	1-216-033-00	METAL GLAZE	220 5% 1/10W
R2353	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R3332	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R2354	1-216-210-00	METAL GLAZE	3.3K 5% 1/8W	R3333	1-216-657-11	METAL CHIP	1.8K 0.50% 1/10W
R2355	1-216-178-00	METAL GLAZE	150 5% 1/8W	R3334	1-216-661-11	METAL CHIP	2.7K 0.50% 1/10W
R2356	1-216-677-11	METAL CHIP	12K 0.50% 1/10W	R3335	1-216-025-00	METAL GLAZE	100 5% 1/10W
R2357	1-216-670-11	METAL CHIP	6.2K 0.50% 1/10W	R3336	1-216-683-11	METAL CHIP	22K 0.50% 1/10W
R2359	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R3337	1-216-685-11	METAL CHIP	27K 0.50% 1/10W
R2360	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R3339	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R2361	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R3340	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R2362	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R3341	1-216-677-11	METAL CHIP	12K 0.50% 1/10W
R2363	1-216-041-00	METAL GLAZE	470 5% 1/10W	R3342	1-216-670-11	METAL CHIP	6.2K 0.50% 1/10W
R2364	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R3343	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R2365	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R3344	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R2366	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R3347	1-216-687-11	METAL CHIP	33K 0.50% 1/10W
R2367	1-216-043-00	METAL GLAZE	560 5% 1/10W	R3348	1-216-681-11	METAL CHIP	18K 0.50% 1/10W
R2368	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R3349	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R2371	1-216-033-00	METAL GLAZE	220 5% 1/10W	R3350	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R2374	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R3351	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R2375	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R3352	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R2376	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R3353	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R2377	1-216-025-00	METAL GLAZE	100 5% 1/10W	R3354	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R2378	1-216-025-00	METAL GLAZE	100 5% 1/10W	R3356	1-216-655-11	METAL CHIP	1.5K 0.50% 1/10W
R2379	1-216-043-00	METAL GLAZE	560 5% 1/10W	R3357	1-216-654-11	METAL CHIP	1.3K 0.50% 1/10W
R2380	1-216-043-00	METAL GLAZE	560 5% 1/10W	R3358	1-216-659-11	METAL CHIP	2.2K 0.50% 1/10W
R2381	1-216-043-00	METAL GLAZE	560 5% 1/10W	R3359	1-216-653-11	METAL CHIP	1.2K 0.50% 1/10W
R2382	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R3360	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R2384	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R3361	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R2385	1-216-075-00	METAL GLAZE	12K 5% 1/10W	R3362	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R2386	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R3364	1-216-295-00	METAL GLAZE	0 5% 1/10W
R2387	1-216-025-00	METAL GLAZE	100 5% 1/10W	R3365	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R2388	1-216-017-00	METAL GLAZE	47 5% 1/10W	R3367	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R2389	1-216-206-00	METAL GLAZE	2.2K 5% 1/8W	R3368	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R2390	1-216-043-00	METAL GLAZE	560 5% 1/10W	R3369	1-216-001-00	METAL GLAZE	10 5% 1/10W
R2392	1-216-206-00	METAL GLAZE	2.2K 5% 1/8W	R3370	1-216-001-00	METAL GLAZE	10 5% 1/10W
R2393	1-216-017-00	METAL GLAZE	47 5% 1/10W	R3371	1-216-001-00	METAL GLAZE	10 5% 1/10W
R2394	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R3373	1-216-673-11	METAL CHIP	8.2K 0.50% 1/10W
R2395	1-216-001-00	METAL GLAZE	10 5% 1/10W	R3374	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R2396	1-216-206-00	METAL GLAZE	2.2K 5% 1/8W	R3375	1-216-658-11	METAL CHIP	2K 0.50% 1/10W
R2397	1-216-043-00	METAL GLAZE	560 5% 1/10W	R3376	1-216-647-11	METAL CHIP	680 0.50% 1/10W
R2399	1-216-001-00	METAL GLAZE	10 5% 1/10W	R3377	1-216-647-11	METAL CHIP	680 0.50% 1/10W
R3301	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R3378	1-216-659-11	METAL CHIP	2.2K 0.50% 1/10W
R3302	1-216-001-00	METAL GLAZE	10 5% 1/10W	R3379	1-216-655-11	METAL CHIP	1.5K 0.50% 1/10W
R3303	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	R3380	1-216-661-11	METAL CHIP	2.7K 0.50% 1/10W
R3304	1-216-091-00	METAL GLAZE	56K 5% 1/10W	R3381	1-216-025-00	METAL GLAZE	100 5% 1/10W
R3306	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R3382	1-216-295-00	METAL GLAZE	0 5% 1/10W
R3307	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R3392	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R3308	1-216-043-00	METAL GLAZE	560 5% 1/10W	R3401	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R3309	1-216-049-00	METAL GLAZE	1K 5% 1/10W				

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R7312	1-216-049-00	METAL GLAZE 1K	5% 1/10W				
R7313	1-216-047-00	METAL GLAZE 820	5% 1/10W				
R7314	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W				
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X2301	1-577-071-11	VIBRATOR, CERAMIC					

	*A-1346-138-A	E1 BOARD, COMPLETE					

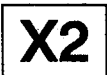
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C301	1-163-010-11	CERAMIC CHIP 0.0012MF	10% 50V				
C303	1-126-157-11	ELECT 10MF	20% 16V				
C304	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V				
C305	1-163-251-11	CERAMIC CHIP 100PF	5% 50V				
C306	1-163-117-00	CERAMIC CHIP 100PF	5% 50V				
C309	1-164-505-11	CERAMIC CHIP 2.2MF					
C310	1-163-109-00	CERAMIC CHIP 47PF	5% 50V				
C314	1-124-915-11	ELECT 10MF	20% 16V				
C315	1-164-505-11	CERAMIC CHIP 2.2MF					
C319	1-126-157-11	ELECT 10MF	20% 16V				
C320	1-124-465-00	ELECT 0.47MF	20% 50V				
C321	1-163-125-00	CERAMIC CHIP 220PF	5% 50V				
C322	1-163-003-11	CERAMIC CHIP 330PF	10% 50V				
C323	1-163-099-00	CERAMIC CHIP 18PF	5% 50V				
C324	1-124-234-00	ELECT 22MF	20% 16V				
C325	1-104-563-11	FILM CHIP 0.1MF	5% 16V				
C326	1-104-563-11	FILM CHIP 0.1MF	5% 16V				
C327	1-104-563-11	FILM CHIP 0.1MF	5% 16V				
C328	1-126-157-11	ELECT 10MF	20% 16V				
C329	1-126-157-11	ELECT 10MF	20% 16V				
C330	1-126-157-11	ELECT 10MF	20% 16V				
C331	1-126-301-11	ELECT 1MF	20% 50V				
C332	1-124-584-00	ELECT 100MF	20% 10V				
C333	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V				
C334	1-137-491-11	FILM CHIP 0.1MF	5% 25V				
C335	1-136-169-00	FILM 0.22MF	5% 50V				
C336	1-126-301-11	ELECT 1MF	20% 50V				
C337	1-126-301-11	ELECT 1MF	20% 50V				
C338	1-124-584-00	ELECT 100MF	20% 10V				
C339	1-124-791-11	ELECT 1MF	20% 50V				
C340	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V				
C341	1-126-157-11	ELECT 10MF	20% 16V				
C342	1-124-465-00	ELECT 0.47MF	20% 50V				
C343	1-124-589-11	ELECT 47MF	20% 16V				
C344	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V				
C345	1-124-767-00	ELECT 2.2MF	20% 50V				
C346	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V				
C347	1-136-169-00	FILM 0.22MF	5% 50V				
C348	1-163-117-00	CERAMIC CHIP 100PF	5% 50V				
C349	1-126-301-11	ELECT 1MF	20% 50V				
C350	1-126-301-11	ELECT 1MF	20% 50V				
C351	1-163-002-11	CERAMIC CHIP 270PF	10% 50V				
C352	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V				
C353	1-126-163-11	ELECT 4.7MF	20% 50V				
C354	1-136-169-00	FILM 0.22MF	5% 50V				
C355	1-124-465-00	ELECT 0.47MF	20% 50V				
C356	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V				
C357	1-163-117-00	CERAMIC CHIP 100PF	5% 50V				
C358	1-124-767-00	ELECT 2.2MF	20% 50V				
C360	1-137-491-11	FILM CHIP 0.1MF	5% 25V				
C361	1-126-301-11	ELECT 1MF	20% 50V				
C362	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V				
C363	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V				
C364	1-126-301-11	ELECT 1MF	20% 50V				
C365	1-164-343-11	CERAMIC CHIP 0.056MF	10% 25V				
C366	1-124-257-00	ELECT 2.2MF	20% 50V				
C367	1-126-157-11	ELECT 10MF	20% 16V				
C368	1-124-234-00	ELECT 22MF	20% 16V				
C369	1-163-001-11	CERAMIC CHIP 220PF	10% 50V				
C370	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V				
C371	1-124-126-00	ELECT 47MF	20% 16V				
C372	1-124-589-11	ELECT 47MF	20% 16V				
C373	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V				
C378	1-163-117-00	CERAMIC CHIP 100PF	5% 50V				
C379	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V				
C380	1-163-137-00	CERAMIC CHIP 680PF	5% 50V				
C381	1-163-101-00	CERAMIC CHIP 22PF	5% 50V				
C382	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V				
C383	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V				
C384	1-163-095-00	CERAMIC CHIP 12PF	5% 50V				
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D301	8-719-404-46	DIODE MA110					
D302	8-719-404-46	DIODE MA110					
D303	8-719-404-46	DIODE MA110					
D304	8-719-404-46	DIODE MA110					
D305	8-719-404-46	DIODE MA110					
D306	8-719-158-15	DIODE RD5.6S-B					
D307	8-719-404-46	DIODE MA110					
D310	8-719-158-15	DIODE RD5.6S-B					
D312	8-719-404-46	DIODE MA110					
D313	8-719-404-46	DIODE MA110					
D314	8-719-404-46	DIODE MA110					
D315	8-719-404-46	DIODE MA110					
D316	8-719-404-46	DIODE MA110					
D317	8-719-404-46	DIODE MA110					
D318	8-719-404-46	DIODE MA110					
D319	8-719-404-46	DIODE MA110					
D320	8-719-404-46	DIODE MA110					
D321	8-719-400-94	DIODE MA3130					
<DELAY LINE>							
DL302	1-415-817-11	DELAY LINE					
<CONNECTOR>							
E1-001	1-573-965-21	PIN, CONNECTOR (PC BOARD)	50P				
E1-24	*1-564-523-11	PLUG, CONNECTOR	8P				
E1-25	*1-564-521-31	PLUG, CONNECTOR	6P				
E1-26	*1-564-522-11	PLUG, CONNECTOR	7P				
<IC>							
IC301	8-752-058-68	IC CXA1315M					
IC302	8-752-057-68	IC CXA1464AS					
IC303	8-759-106-02	IC UPC4570G2					
<COIL>							
L301	1-410-064-11	INDUCTOR 2.7MH					
L307	1-410-944-31	INDUCTOR CHIP 15UH					
L308	1-410-946-31	INDUCTOR CHIP 22UH					

E1

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<TRANSISTOR>							
Q301	8-729-925-79	TRANSISTOR 1MX3		R343	1-216-077-00	METAL GLAZE 15K 5%	1/10W
Q302	8-729-925-79	TRANSISTOR 1MX3		R344	1-216-081-00	METAL GLAZE 22K 5%	1/10W
Q303	8-729-422-27	TRANSISTOR 2SD601A-Q		R345	1-216-292-11	METAL GLAZE 8.2M 5%	1/8W
Q304	8-729-907-46	TRANSISTOR 1MZ1		R346	1-216-081-00	METAL GLAZE 22K 5%	1/10W
Q305	8-729-925-79	TRANSISTOR 1MX3					
Q306	8-729-422-27	TRANSISTOR 2SD601A-Q		R347	1-216-081-00	METAL GLAZE 22K 5%	1/10W
Q307	8-729-903-10	TRANSISTOR FMW1		R348	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q309	8-729-422-27	TRANSISTOR 2SD601A-Q		R349	1-216-295-00	METAL GLAZE 0 5%	1/10W
Q310	8-729-422-27	TRANSISTOR 2SD601A-Q		R350	1-216-089-00	METAL GLAZE 47K 5%	1/10W
Q311	8-729-403-27	TRANSISTOR XN4401		R351	1-216-674-11	METAL CHIP 9.1K 0.50%	1/10W
Q312	8-729-422-27	TRANSISTOR 2SD601A-Q		R352	1-216-011-00	METAL GLAZE 27 5%	1/10W
Q314	8-729-403-27	TRANSISTOR XN4401		R353	1-216-001-00	METAL GLAZE 10 5%	1/10W
Q315	8-729-422-27	TRANSISTOR 2SD601A-Q		R354	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q316	8-729-422-27	TRANSISTOR 2SD601A-Q		R355	1-216-001-00	METAL GLAZE 10 5%	1/10W
Q317	8-729-216-22	TRANSISTOR 2SA1162-G		R356	1-216-001-00	METAL GLAZE 10 5%	1/10W
Q321	8-729-925-79	TRANSISTOR 1MX3		R357	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q322	8-729-216-22	TRANSISTOR 2SA1162-G		R358	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q323	8-729-422-27	TRANSISTOR 2SD601A-Q		R359	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q324	8-729-216-22	TRANSISTOR 2SA1162-G		R360	1-216-119-00	METAL GLAZE 820K 5%	1/10W
Q325	8-729-216-22	TRANSISTOR 2SA1162-G		R361	1-216-025-00	METAL GLAZE 100 5%	1/10W
Q326	8-729-422-27	TRANSISTOR 2SD601A-Q		R362	1-216-079-00	METAL GLAZE 18K 5%	1/10W
Q327	8-729-422-27	TRANSISTOR 2SD601A-Q		R363	1-216-295-00	METAL GLAZE 0 5%	1/10W
Q328	8-729-422-27	TRANSISTOR 2SD601A-Q		R364	1-216-045-00	METAL GLAZE 680 5%	1/10W
Q329	8-729-925-79	TRANSISTOR 1MX3		R365	1-216-017-00	METAL GLAZE 47 5%	1/10W
Q330	8-729-925-79	TRANSISTOR 1MX3		R366	1-216-001-00	METAL GLAZE 10 5%	1/10W
Q333	8-729-925-79	TRANSISTOR 1MX3		R367	1-216-045-00	METAL GLAZE 680 5%	1/10W
Q334	8-729-422-27	TRANSISTOR 2SD601A-Q		R368	1-216-001-00	METAL GLAZE 10 5%	1/10W
Q335	8-729-907-46	TRANSISTOR 1MZ1		R369	1-216-033-00	METAL GLAZE 220 5%	1/10W
Q340	8-729-422-27	TRANSISTOR 2SD601A-Q		R370	1-216-033-00	METAL GLAZE 220 5%	1/10W
Q342	8-729-925-79	TRANSISTOR 1MX3		R371	1-216-033-00	METAL GLAZE 220 5%	1/10W
Q344	8-729-216-22	TRANSISTOR 2SA1162-G		R372	1-216-031-00	METAL GLAZE 180 5%	1/10W
<RESISTOR>							
R301	1-216-025-00	METAL GLAZE 100 5%	1/10W	R373	1-216-671-11	METAL CHIP 6.8K 0.50%	1/10W
R302	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R374	1-216-037-00	METAL GLAZE 330 5%	1/10W
R303	1-216-079-00	METAL GLAZE 18K 5%	1/10W	R375	1-216-037-00	METAL GLAZE 330 5%	1/10W
R304	1-216-081-00	METAL GLAZE 22K 5%	1/10W	R376	1-216-037-00	METAL GLAZE 330 5%	1/10W
R305	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W	R377	1-216-033-00	METAL GLAZE 220 5%	1/10W
R306	1-216-081-00	METAL GLAZE 22K 5%	1/10W	R378	1-216-033-00	METAL GLAZE 220 5%	1/10W
R307	1-216-089-00	METAL GLAZE 47K 5%	1/10W	R379	1-216-033-00	METAL GLAZE 220 5%	1/10W
R308	1-216-037-00	METAL GLAZE 330 5%	1/10W	R380	1-216-033-00	METAL GLAZE 220 5%	1/10W
R309	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R381	1-216-033-00	METAL GLAZE 220 5%	1/10W
R310	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R382	1-216-033-00	METAL GLAZE 220 5%	1/10W
R312	1-216-043-00	METAL GLAZE 560 5%	1/10W	R383	1-216-653-11	METAL CHIP 1.2K 0.50%	1/10W
R313	1-216-035-00	METAL GLAZE 270 5%	1/10W	R384	1-216-041-00	METAL GLAZE 470 5%	1/10W
R314	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W	R385	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R316	1-216-035-00	METAL GLAZE 270 5%	1/10W	R386	1-216-687-11	METAL CHIP 33K 0.50%	1/10W
R317	1-216-121-00	METAL GLAZE 1M 5%	1/10W	R387	1-216-033-00	METAL GLAZE 220 5%	1/10W
R320	1-216-039-00	METAL GLAZE 390 5%	1/10W	R388	1-216-033-00	METAL GLAZE 220 5%	1/10W
R325	1-216-033-00	METAL GLAZE 220 5%	1/10W	R389	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R326	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R390	1-216-033-00	METAL GLAZE 220 5%	1/10W
R331	1-216-017-00	METAL GLAZE 47 5%	1/10W	R391	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R332	1-216-657-11	METAL CHIP 1.8K 0.50%	1/10W	R393	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W
R333	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W	R394	1-216-109-00	METAL GLAZE 330K 5%	1/10W
R336	1-216-047-00	METAL GLAZE 820 5%	1/10W	R395	1-216-071-00	METAL GLAZE 8.2K 5%	1/10W
R338	1-216-043-00	METAL GLAZE 560 5%	1/10W	R396	1-216-105-00	METAL GLAZE 220K 5%	1/10W
R339	1-216-047-00	METAL GLAZE 820 5%	1/10W	R397	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R340	1-216-651-11	METAL CHIP 1K 0.50%	1/10W	R398	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R341	1-216-043-00	METAL GLAZE 560 5%	1/10W	R399	1-216-077-00	METAL GLAZE 15K 5%	1/10W
				R1301	1-216-049-00	METAL GLAZE 1K 5%	1/10W
				R1302	1-216-045-00	METAL GLAZE 680 5%	1/10W
				R1303	1-216-085-00	METAL GLAZE 33K 5%	1/10W
				R1304	1-216-081-00	METAL GLAZE 22K 5%	1/10W
				R1305	1-216-025-00	METAL GLAZE 100 5%	1/10W
				R1306	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
				R1307	1-216-073-00	METAL GLAZE 10K 5%	1/10W
				R1308	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W

Y2

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C466	1-130-485-00	MYLAR 0.015MF	5% 50V	R475	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W
C467	1-136-169-00	FILM 0.22MF	5% 50V	R476	1-216-669-11	METAL CHIP 5.6K	0.50% 1/10W
C468	1-136-169-00	FILM 0.22MF	5% 50V	R477	1-216-675-11	METAL CHIP 10K	0.50% 1/10W
C469	1-126-157-11	ELECT 10MF	20% 16V	R478	1-216-089-00	METAL GLAZE 47K	5% 1/10W
C470	1-126-157-11	ELECT 10MF	20% 16V	R479	1-216-669-11	METAL CHIP 5.6K	0.50% 1/10W
C471	1-124-589-11	ELECT 47MF	20% 16V	R480	1-216-675-11	METAL CHIP 10K	0.50% 1/10W
C472	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	R481	1-216-089-00	METAL GLAZE 47K	5% 1/10W
C473	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	R482	1-216-089-00	METAL GLAZE 47K	5% 1/10W
C474	1-124-234-00	ELECT 22MF	20% 16V	R483	1-216-089-00	METAL GLAZE 47K	5% 1/10W
C475	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	R485	1-216-073-00	METAL GLAZE 10K	5% 1/10W
C476	1-124-234-00	ELECT 22MF	20% 16V	R486	1-216-073-00	METAL GLAZE 10K	5% 1/10W
C477	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	R488	1-216-295-00	METAL GLAZE 0	5% 1/10W
C478	1-124-478-11	ELECT 100MF	20% 25V	R494	1-216-025-00	METAL GLAZE 100	5% 1/10W
C479	1-126-163-11	ELECT 4.7MF	20% 50V	R495	1-216-025-00	METAL GLAZE 100	5% 1/10W
C480	1-124-768-11	ELECT 4.7MF	20% 50V	R496	1-216-025-00	METAL GLAZE 100	5% 1/10W
C481	1-124-768-11	ELECT 4.7MF	20% 50V	R497	1-216-033-00	METAL GLAZE 220	5% 1/10W
C482	1-126-163-11	ELECT 4.7MF	20% 50V	R498	1-216-025-00	METAL GLAZE 100	5% 1/10W
C483	1-163-113-00	CERAMIC CHIP 68PF	5% 50V	R499	1-216-025-00	METAL GLAZE 100	5% 1/10W
C484	1-163-113-00	CERAMIC CHIP 68PF	5% 50V	R500	1-216-081-00	METAL GLAZE 22K	5% 1/10W
C485	1-163-038-00	CERAMIC CHIP 0.1MF	25V	R501	1-216-669-11	METAL CHIP 5.6K	0.50% 1/10W
C487	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	R502	1-216-033-00	METAL GLAZE 220	5% 1/10W
C488	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	R503	1-216-663-11	METAL CHIP 3.3K	0.50% 1/10W
<DIODE>				R504	1-216-675-11	METAL CHIP 10K	0.50% 1/10W
D405	8-719-107-13	DIODE RD18M-B1		R507	1-216-295-00	METAL GLAZE 0	5% 1/10W
D406	8-719-107-13	DIODE RD18M-B1		R509	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
D407	8-719-107-13	DIODE RD18M-B1		R510	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
D408	8-719-105-83	DIODE RD5.1M-B3		R512	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
D409	8-719-981-50	DIODE RB-100A		R513	1-216-667-11	METAL CHIP 4.7K	0.50% 1/10W
D410	8-719-981-50	DIODE RB-100A		R515	1-216-295-00	METAL GLAZE 0	5% 1/10W
D413	8-719-158-19	DIODE RD6.2S-B		R517	1-216-025-00	METAL GLAZE 100	5% 1/10W
D414	8-719-158-55	DIODE RD15S-B		R518	1-216-089-00	METAL GLAZE 47K	5% 1/10W
D415	8-719-158-55	DIODE RD15S-B		R519	1-216-295-00	METAL GLAZE 0	5% 1/10W
<IC>				R521	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
IC403	8-759-996-43	IC RC4558PS		R522	1-216-033-00	METAL GLAZE 220	5% 1/10W
IC404	8-759-067-24	IC 24C04A1/P		R523	1-216-033-00	METAL GLAZE 220	5% 1/10W
IC406	8-752-037-24	IC CXA1264AS		R524	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
IC407	8-759-245-75	IC TA8184P		R525	1-216-067-00	METAL GLAZE 5.6K	5% 1/10W
IC408	8-752-057-18	IC CXA1315P		R526	1-216-049-00	METAL GLAZE 1K	5% 1/10W
<TRANSISTOR>				R527	1-218-754-11	METAL CHIP 120K	0.50% 1/10W
Q404	8-729-216-22	TRANSISTOR 2SA1162-G		R528	1-216-691-11	METAL CHIP 47K	0.50% 1/10W
Q405	8-729-216-22	TRANSISTOR 2SA1162-G		R529	1-216-097-00	METAL GLAZE 100K	5% 1/10W
Q409	8-729-422-27	TRANSISTOR 2SD601A-Q		R531	1-216-097-00	METAL GLAZE 100K	5% 1/10W
Q410	8-729-422-27	TRANSISTOR 2SD601A-Q		R532	1-216-097-00	METAL GLAZE 100K	5% 1/10W
<RESISTOR>				R533	1-216-097-00	METAL GLAZE 100K	5% 1/10W
R447	1-216-033-00	METAL GLAZE 220	5% 1/10W	R535	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R453	1-216-033-00	METAL GLAZE 220	5% 1/10W	R536	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R464	1-216-081-00	METAL GLAZE 22K	5% 1/10W	R537	1-216-067-00	METAL GLAZE 5.6K	5% 1/10W
R465	1-216-081-00	METAL GLAZE 22K	5% 1/10W	R538	1-218-754-11	METAL CHIP 120K	0.50% 1/10W
R466	1-216-025-00	METAL GLAZE 100	5% 1/10W	R539	1-216-691-11	METAL CHIP 47K	0.50% 1/10W
R467	1-216-033-00	METAL GLAZE 220	5% 1/10W	R542	1-216-025-00	METAL GLAZE 100	5% 1/10W
R468	1-216-033-00	METAL GLAZE 220	5% 1/10W	R543	1-216-025-00	METAL GLAZE 100	5% 1/10W
R469	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W	R546	1-216-682-11	METAL CHIP 20K	0.50% 1/10W
R470	1-216-033-00	METAL GLAZE 220	5% 1/10W	R547	1-216-681-11	METAL CHIP 18K	0.50% 1/10W
R471	1-216-033-00	METAL GLAZE 220	5% 1/10W	<CONNECTOR>			
R472	1-216-686-11	METAL CHIP 30K	0.50% 1/10W	Y2-401 1-573-966-11 PIN, CONNECTOR (PC BOARD) 36P			
R473	1-216-295-00	METAL GLAZE 0	5% 1/10W	*****			
R474	1-216-295-00	METAL GLAZE 0	5% 1/10W				



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
*A-1394-444-A X2 BOARD, COMPLETE *****				C2563	1-163-257-11	CERAMIC CHIP 180PF	5% 50V
<CAPACITOR>				C2564	1-126-301-11	ELECT 1MF	20% 50V
C2501	1-163-020-00	CERAMIC CHIP 0.0082MF	10% 50V	C2565	1-126-163-11	ELECT 4.7MF	20% 50V
C2502	1-163-020-00	CERAMIC CHIP 0.0082MF	10% 50V	C2566	1-126-163-11	ELECT 4.7MF	20% 50V
C2503	1-163-001-11	CERAMIC CHIP 220PF	10% 50V	C2567	1-126-163-11	ELECT 4.7MF	20% 50V
C2504	1-126-163-11	ELECT 4.7MF	20% 50V	C2568	1-163-263-11	CERAMIC CHIP 330PF	5% 50V
C2505	1-163-020-00	CERAMIC CHIP 0.0082MF	10% 50V	C2569	1-163-257-11	CERAMIC CHIP 180PF	5% 50V
C2506	1-163-020-00	CERAMIC CHIP 0.0082MF	10% 50V	C2570	1-124-234-00	ELECT 22MF	20% 16V
C2507	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	C2571	1-126-301-11	ELECT 1MF	20% 50V
C2508	1-163-020-00	CERAMIC CHIP 0.0082MF	10% 50V	C2572	1-126-163-11	ELECT 4.7MF	20% 50V
C2509	1-163-020-00	CERAMIC CHIP 0.0082MF	10% 50V	C2573	1-124-234-00	ELECT 22MF	20% 16V
C2510	1-163-989-11	CERAMIC CHIP 0.033MF	10% 25V	C2574	1-126-301-11	ELECT 1MF	20% 50V
C2511	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C2575	1-126-301-11	ELECT 1MF	20% 50V
C2512	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C2576	1-126-301-11	ELECT 1MF	20% 50V
C2513	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C2577	1-126-163-11	ELECT 4.7MF	20% 50V
C2514	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C2578	1-126-163-11	ELECT 4.7MF	20% 50V
C2515	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C2579	1-126-103-11	ELECT 470MF	20% 16V
C2516	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C2580	1-124-478-11	ELECT 100MF	20% 25V
C2517	1-126-157-11	ELECT 10MF	20% 16V	C2581	1-163-109-00	CERAMIC CHIP 47PF	5% 50V
C2518	1-126-163-11	ELECT 4.7MF	20% 50V	C2582	1-124-477-11	ELECT 47MF	20% 25V
C2519	1-126-301-11	ELECT 1MF	20% 50V	C2583	1-126-163-11	ELECT 4.7MF	20% 50V
C2520	1-126-163-11	ELECT 4.7MF	20% 50V	C2584	1-163-109-00	CERAMIC CHIP 47PF	5% 50V
C2521	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	C2585	1-126-163-11	ELECT 4.7MF	20% 50V
C2522	1-124-252-00	ELECT 0.33MF	20% 50V	C2586	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C2523	1-126-163-11	ELECT 4.7MF	20% 50V	C2587	1-126-163-11	ELECT 4.7MF	20% 50V
C2524	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C2588	1-126-163-11	ELECT 4.7MF	20% 50V
C2525	1-126-163-11	ELECT 4.7MF	20% 50V	C2589	1-126-163-11	ELECT 4.7MF	20% 50V
C2526	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C2590	1-126-163-11	ELECT 4.7MF	20% 50V
C2527	1-126-157-11	ELECT 10MF	20% 16V	C2591	1-124-478-11	ELECT 100MF	20% 25V
C2528	1-124-465-00	ELECT 0.47MF	20% 50V	<DIODE>			
C2529	1-163-989-11	CERAMIC CHIP 0.033MF	10% 25V	D2501	8-719-104-34	DIODE 1S2836	
C2530	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V	D2502	8-719-106-88	DIODE RD15M-B1	
C2531	1-126-301-11	ELECT 1MF	20% 50V	D2503	8-719-106-88	DIODE RD15M-B1	
C2532	1-126-301-11	ELECT 1MF	20% 50V	D2504	8-719-106-88	DIODE RD15M-B1	
C2533	1-124-261-00	ELECT 10MF	20% 50V	<IC>			
C2534	1-163-257-11	CERAMIC CHIP 180PF	5% 50V	IC2501	8-759-031-31	IC MC33174M	
C2535	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	IC2502	8-752-050-75	IC CXA1373Q	
C2536	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	IC2503	8-759-604-70	IC M51523AL	
C2537	1-126-163-11	ELECT 4.7MF	20% 50V	IC2504	8-759-031-31	IC MC33174M	
C2538	1-126-163-11	ELECT 4.7MF	20% 50V	IC2505	8-759-604-70	IC M51523AL	
C2539	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	IC2506	8-759-106-22	IC UPD4052BG	
C2540	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	IC2507	8-759-038-68	IC MC33172ML	
C2541	1-163-139-00	CERAMIC CHIP 820PF	5% 50V	IC2508	8-759-038-68	IC MC33172ML	
C2542	1-124-478-11	ELECT 100MF	20% 25V	<JACK>			
C2543	1-124-252-00	ELECT 0.33MF	20% 50V	J2501	*1-573-966-11	PIN, CONNECTOR (PC BOARD) 36P	
C2544	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V	<TRANSISTOR>			
C2545	1-126-301-11	ELECT 1MF	20% 50V	Q2501	8-729-230-49	TRANSISTOR 2SC2712-YG	
C2546	1-126-163-11	ELECT 4.7MF	20% 50V	<RESISTOR>			
C2547	1-126-163-11	ELECT 4.7MF	20% 25V	R2501	1-216-079-00	METAL GLAZE 18K 5% 1/10W	
C2548	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	R2502	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
C2549	1-126-163-11	ELECT 4.7MF	20% 50V	R2503	1-216-091-00	METAL GLAZE 56K 5% 1/10W	
C2550	1-126-163-11	ELECT 4.7MF	20% 25V	R2504	1-216-109-00	METAL GLAZE 330K 5% 1/10W	
C2551	1-126-301-11	ELECT 1MF	20% 50V	R2505	1-216-109-00	METAL GLAZE 330K 5% 1/10W	
C2552	1-126-163-11	ELECT 4.7MF	20% 50V				
C2553	1-126-301-11	ELECT 1MF	20% 50V				
C2554	1-124-234-00	ELECT 22MF	20% 16V				
C2555	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V				
C2556	1-124-257-00	ELECT 2.2MF	20% 50V				
C2557	1-124-234-00	ELECT 22MF	20% 16V				
C2558	1-126-301-11	ELECT 1MF	20% 50V				
C2559	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V				
C2560	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V				
C2561	1-126-301-11	ELECT 1MF	20% 50V				
C2562	1-163-263-11	CERAMIC CHIP 330PF	5% 50V				

X2 G

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R2506	1-216-101-00	METAL GLAZE 150K 5%	1/10W	R2572	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R2507	1-216-091-00	METAL GLAZE 56K 5%	1/10W	R2573	1-216-082-00	METAL GLAZE 24K 5%	1/10W
R2508	1-216-079-00	METAL GLAZE 18K 5%	1/10W	R2574	1-216-085-00	METAL GLAZE 33K 5%	1/10W
R2509	1-216-130-11	METAL GLAZE 2.4M 5%	1/10W	R2575	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R2510	1-216-097-00	METAL GLAZE 100K 5%	1/10W	R2576	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R2511	1-216-085-00	METAL GLAZE 33K 5%	1/10W	R2577	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R2512	1-216-103-00	METAL GLAZE 180K 5%	1/10W	R2578	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R2513	1-216-085-00	METAL GLAZE 33K 5%	1/10W	R2579	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R2514	1-216-103-00	METAL GLAZE 180K 5%	1/10W	R2580	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R2515	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R2581	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R2516	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R2582	1-216-083-00	METAL GLAZE 27K 5%	1/10W
R2517	1-216-133-00	METAL GLAZE 3.3M 5%	1/10W	R2583	1-216-083-00	METAL GLAZE 27K 5%	1/10W
R2518	1-216-072-00	METAL GLAZE 9.1K 5%	1/10W	R2584	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R2519	1-216-133-00	METAL GLAZE 3.3M 5%	1/10W	R2585	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R2520	1-216-133-00	METAL GLAZE 3.3M 5%	1/10W	R2586	1-216-085-00	METAL GLAZE 33K 5%	1/10W
R2521	1-216-133-00	METAL GLAZE 3.3M 5%	1/10W	R2587	1-216-085-00	METAL GLAZE 33K 5%	1/10W
R2522	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W	R2588	1-216-085-00	METAL GLAZE 33K 5%	1/10W
R2523	1-216-077-00	METAL GLAZE 15K 5%	1/10W	R2589	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R2524	1-216-129-00	METAL GLAZE 2.2M 5%	1/10W	R2590	1-216-079-00	METAL GLAZE 18K 5%	1/10W
R2526	1-216-133-00	METAL GLAZE 3.3M 5%	1/10W	R2591	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R2527	1-216-133-00	METAL GLAZE 3.3M 5%	1/10W	R2592	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R2528	1-216-081-00	METAL GLAZE 22K 5%	1/10W	R2593	1-216-079-00	METAL GLAZE 18K 5%	1/10W
R2529	1-216-081-00	METAL GLAZE 22K 5%	1/10W	R2594	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R2530	1-216-133-00	METAL GLAZE 3.3M 5%	1/10W	R2595	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R2531	1-216-089-00	METAL GLAZE 47K 5%	1/10W	R2596	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R2532	1-216-133-00	METAL GLAZE 3.3M 5%	1/10W	R2597	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R2533	1-216-089-00	METAL GLAZE 47K 5%	1/10W	R2598	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R2534	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R2599	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R2535	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R2600	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R2536	1-216-129-00	METAL GLAZE 2.2M 5%	1/10W	R2601	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R2537	1-216-077-00	METAL GLAZE 15K 5%	1/10W	R2602	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R2539	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W	R2604	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R2540	1-216-075-00	METAL GLAZE 12K 5%	1/10W	R2605	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R2541	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W	R2606	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R2542	1-216-081-00	METAL GLAZE 22K 5%	1/10W	R2610	1-216-125-00	METAL GLAZE 1.5M 5%	1/10W
R2543	1-216-081-00	METAL GLAZE 22K 5%	1/10W	R2611	1-216-125-00	METAL GLAZE 1.5M 5%	1/10W
R2544	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R2612	1-216-125-00	METAL GLAZE 1.5M 5%	1/10W
R2545	1-216-048-00	METAL GLAZE 910 5%	1/10W	R2613	1-216-125-00	METAL GLAZE 1.5M 5%	1/10W
R2546	1-216-133-00	METAL GLAZE 3.3M 5%	1/10W	R2614	1-216-125-00	METAL GLAZE 1.5M 5%	1/10W
R2547	1-216-133-00	METAL GLAZE 3.3M 5%	1/10W	R2615	1-216-125-00	METAL GLAZE 1.5M 5%	1/10W
R2548	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R2616	1-216-125-00	METAL GLAZE 1.5M 5%	1/10W
R2549	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R2617	1-216-125-00	METAL GLAZE 1.5M 5%	1/10W
R2550	1-216-088-00	METAL GLAZE 43K 5%	1/10W	R2618	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
R2551	1-216-088-00	METAL GLAZE 43K 5%	1/10W	R2619	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R2552	1-216-049-00	METAL GLAZE 1K 5%	1/10W				
R2553	1-216-078-00	METAL GLAZE 16K 5%	1/10W	*****			
R2554	1-216-082-00	METAL GLAZE 24K 5%	1/10W	*A-1316-149-A G BOARD, COMPLETE			
R2555	1-216-089-00	METAL GLAZE 47K 5%	1/10W	*****			
R2556	1-216-049-00	METAL GLAZE 1K 5%	1/10W	1-533-223-11 CLIP, FUSE			
R2557	1-216-085-00	METAL GLAZE 33K 5%	1/10W	3-701-754-00 PLATE, INSULATING			
R2558	1-216-088-00	METAL GLAZE 43K 5%	1/10W	4-382-854-11 SCREW (M3X10), P, SW (+)			
R2559	1-216-091-00	METAL GLAZE 56K 5%	1/10W	<CAPACITOR>			
R2560	1-216-103-00	METAL GLAZE 180K 5%	1/10W	C601	1-161-830-00	CERAMIC 4700PF	10% 500V
R2561	1-216-097-00	METAL GLAZE 100K 5%	1/10W	C602	1-130-317-00	FILM 0.068MF	5% 100V
R2562	1-216-089-00	METAL GLAZE 47K 5%	1/10W	C603	1-124-634-11	ELECT 1MF	20% 250V
R2563	1-216-088-00	METAL GLAZE 43K 5%	1/10W	C605	1-164-143-11	CERAMIC 0.001MF	10% 1KV
R2564	1-216-088-00	METAL GLAZE 43K 5%	1/10W	C606	1-124-563-11	ELECT 2200MF	20% 25V
R2565	1-216-103-00	METAL GLAZE 180K 5%	1/10W	C607	1-124-563-11	ELECT 2200MF	20% 25V
R2566	1-216-073-00	METAL GLAZE 10K 5%	1/10W	C608	1-128-484-11	ELECT 100MF	20% 200V
R2567	1-216-073-00	METAL GLAZE 10K 5%	1/10W	C609	1-137-141-11	FILM 0.082MF	3% 600V
R2568	1-216-049-00	METAL GLAZE 1K 5%	1/10W	C612	1-124-962-11	ELECT 2200MF	20% 25V
R2569	1-216-097-00	METAL GLAZE 100K 5%	1/10W				
R2570	1-216-091-00	METAL GLAZE 56K 5%	1/10W				
R2571	1-216-078-00	METAL GLAZE 16K 5%	1/10W				

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REF. NO.	PART NO.	DESCRIPTION	REMARK
C614	1-126-326-51	ELECT 10MF	20% 200V
C615	1-124-798-11	ELECT 1MF	20% 160V
C616	1-124-557-11	ELECT 1000MF	20% 25V
C617	1-164-143-11	CERAMIC 0.001MF	10% 1KV
C618	1-136-853-11	FILM 0.56MF	5% 200V
C619	1-164-735-11	CAP, CERAMIC 1500PF	
C620	1-136-721-21	FILM 1.5MF	10% 400V
C621	1-164-143-11	CERAMIC 0.001MF	10% 1KV
C622	1-136-853-11	FILM 0.56MF	5% 200V
C623	1-137-087-11	FILM 0.068MF	3% 0
C624	1-126-771-11	ELECT 100MF	20% 160V
C625	1-126-183-11	ELECT 1000MF	20% 16V
C626	1-126-373-11	ELECT 470MF	20% 10V
C628	1-161-830-00	CERAMIC 4700PF	10% 500V
C629	1-124-607-11	ELECT 2200MF	20% 50V
C631	1-126-803-11	ELECT 47MF	20% 50V
C632	1-124-903-11	ELECT 1MF	20% 50V
C633	1-130-483-00	MYLAR 0.01MF	5% 50V
C634	1-126-803-11	ELECT 47MF	20% 16V
C637 Δ	1-136-311-51	FILM 0.47MF	20% 125V
C638 Δ	1-161-743-12	CERAMIC 0.0047MF	400V
C639 Δ	1-125-692-11	ELECT (BLOCK) 820MF	20% 200V
C640 Δ	1-136-311-51	FILM 0.47MF	20% 125V
C641	1-126-101-11	ELECT 100MF	20% 16V
C642 Δ	1-161-743-12	CERAMIC 0.0047MF	400V
C644	1-126-104-11	ELECT 470MF	20% 35V
C646	1-124-907-11	ELECT 10MF	20% 50V
C647 Δ	1-164-486-51	CERAMIC 0.0033MF	20% 400V
C648 Δ	1-125-692-11	ELECT (BLOCK) 820MF	20% 200V
C649 Δ	1-164-486-51	CERAMIC 0.0033MF	20% 400V
C650 Δ	1-161-743-12	CERAMIC 0.0047MF	400V
C660	1-102-125-00	CERAMIC 0.0047MF	10% 50V
C661	1-102-125-00	CERAMIC 0.0047MF	10% 50V
C662	1-124-910-11	ELECT 47MF	20% 35V
C663	1-126-017-11	ELECT 6800MF	20% 16V
C664	1-126-017-11	ELECT 6800MF	20% 16V
C670	1-102-074-00	CERAMIC 0.001MF	10% 50V
<DIODE>			
D602	8-719-979-58	DIODE EGP10D	
D603	8-719-500-67	DIODE D5KC40H	
D604	8-719-510-09	DIODE D10SC6M	
D605	8-719-988-31	DIODE D10SC6MR	
D607	8-719-025-81	DIODE S3V10SB	
D608	8-719-109-85	DIODE RD5.1ES-B2	
D609	8-719-109-84	DIODE RD5.1ES-B1	
D610	8-719-979-58	DIODE EGP10D	
D611	8-719-979-58	DIODE EGP10D	
D613	8-719-303-57	DIODE RU2AM	
D614	8-719-979-58	DIODE EGP10D	
D615	8-719-975-76	DIODE SB140	
D616	8-719-025-81	DIODE S3V10SB	
D617	8-719-110-02	DIODE RD7.5ES-B1	
D618	8-719-911-19	DIODE ISS119	
D619	8-719-975-76	DIODE SB140	
D620 Δ	8-719-988-31	DIODE D10SC6MR	
D621	8-719-908-03	DIODE GP08D	
D622	8-719-908-03	DIODE GP08D	
D623	8-719-110-63	DIODE RD24ES-B3	
D624	8-719-109-89	DIODE RD5.6ES-B2	
D626	8-719-908-03	DIODE GP08D	
D628	8-719-110-49	DIODE RD18ES-B2	
D629	8-719-911-19	DIODE ISS119	

REF. NO.	PART NO.	DESCRIPTION	REMARK
D631	8-719-911-19	DIODE ISS119	
D632	8-719-511-40	DIODE S1VB40	
D633 Δ	8-719-505-60	DIODE S5VB60	
D634	8-719-911-19	DIODE ISS119	
D636	8-719-109-85	DIODE RD5.1ES-B2	
D638	8-719-911-19	DIODE ISS119	
D640 Δ	8-719-510-09	DIODE D10SC6M	
D650	8-719-160-81	DIODE RD27F-B2	
<FUSE>			
F601 Δ	1-532-748-11	FUSE, GLASS TUBE 6.3A/125V	
<FERRITE BEAD>			
FB602	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB604	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
FB606	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB607	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB608	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
FB612	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB622	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB630	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
FB631	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
<CONNECTOR>			
G1	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P	
G2	*1-564-512-11	PLUG, CONNECTOR 9P	
G3	*1-564-507-11	PLUG, CONNECTOR 4P	
G4	*1-564-511-11	PLUG, CONNECTOR 8P	
G5	*1-564-508-11	PLUG, CONNECTOR 5P	
G7	*1-564-507-11	PLUG, CONNECTOR 4P	
G8	*1-580-843-11	PIN, CONNECTOR (POWER)	
G9	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
G10	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P	
G11	*1-564-511-31	PLUG, CONNECTOR 8P	
G12	*1-564-505-11	PLUG, CONNECTOR 2P	
<IC>			
IC601 Δ	8-749-921-89	IC SET15N	
IC602	8-759-231-58	IC TA7812S	
<COIL>			
L602	1-459-862-11	COIL, CHOKE 90UH	
L604	1-408-404-00	INDUCTOR 3.9UH	
L605	1-412-526-11	INDUCTOR 12UH	
L607	1-408-404-00	INDUCTOR 3.9UH	
L611	1-412-546-41	INDUCTOR 560UH	
L612	1-412-540-31	INDUCTOR 180UH	
L613	1-412-522-41	INDUCTOR 5.6UH	
<TRANSISTOR>			
Q603	8-729-011-15	TRANSISTOR 2SC4582NP	
Q604	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q607	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q608	8-729-326-11	TRANSISTOR 2SC2611	
Q609	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q610	8-729-019-58	TRANSISTOR 2SA1208T-TP	
Q611	8-729-019-58	TRANSISTOR 2SA1208T-TP	

The components identified by in this manual 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.

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



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q612	8-729-386-12	TRANSISTOR 2SB861-C		R666	1-249-377-11	CARBON	0.47 5% 1/4W F
Q613	8-729-209-15	TRANSISTOR 2SD2012		R667 Δ	1-202-888-91	SOLID	2.2K 20% 1/2W
Q614	8-729-011-15	TRANSISTOR 2SC4582NP		R668 Δ	1-215-904-91	METAL OXIDE	100K 5% 2W F
Q615	8-729-019-58	TRANSISTOR 2SA1208T-TP		R669	1-249-377-11	CARBON	0.47 5% 1/4W F
Q616	8-729-208-39	TRANSISTOR 2SA1306A-Y		R675	1-249-377-11	CARBON	0.47 5% 1/4W F
Q618	8-729-119-76	TRANSISTOR 2SA1175-HFE		R687	1-249-417-11	CARBON	1K 5% 1/4W F
Q620	8-729-119-78	TRANSISTOR 2SC2785-HFE		R689	1-247-742-11	CARBON	180 5% 1/2W F
Q621	8-729-119-78	TRANSISTOR 2SC2785-HFE		R691	1-249-421-11	CARBON	2.2K 5% 1/4W
Q623	8-729-119-76	TRANSISTOR 2SA1175-HFE		R694	1-249-421-11	CARBON	2.2K 5% 1/4W
Q629	8-729-378-84	TRANSISTOR 2SD788-5		R697	1-249-382-11	CARBON	1.2 5% 1/4W F
Q630	8-729-255-12	TRANSISTOR 2SC2551-0		R698	1-216-386-11	METAL OXIDE	0.56 5% 3W F
<RESISTOR>				<RELAY>			
R604	1-202-933-11	FUSIBLE	0.1 10% 1/2W F	RY601A	1-515-805-11	RELAY, POWER	
R605	1-249-428-11	CARBON	8.2K 5% 1/4W	RY602A	1-515-805-11	RELAY, POWER	
R606	1-214-919-00	METAL	180K 1% 1/2W	<TRANSFORMER>			
R609	1-249-434-11	CARBON	27K 5% 1/4W F	T601 Δ	1-450-791-12	TRANSFORMER, POWER ISOLATION	
R610	1-215-469-00	METAL	100K 1% 1/4W	T603 Δ	1-424-020-11	PRT	
R611	1-249-421-11	CARBON	2.2K 5% 1/4W F	T604 Δ	1-450-149-11	TRANSFORMER, HEATER	
R612	1-202-883-11	SOLID	680K 20% 1/2W	T605 Δ	1-424-023-12	TRANSFORMER, LINE FILTER	
R613	1-216-386-11	METAL OXIDE	0.56 5% 3W F	T606 Δ	1-421-372-21	TRANSFORMER, FERRITE (LFT)	
R614	1-249-418-11	CARBON	1.2K 5% 1/4W	T608 Δ	1-423-665-11	TRANSFORMER, POWER	
R615	1-215-438-00	METAL	5.1K 1% 1/4W	<VARISTOR>			
R616	1-215-436-00	METAL	4.3K 1% 1/4W	VDR601A	1-809-786-11	VARISTOR	
R617	1-216-356-00	METAL OXIDE	3.9 5% 1W F	*****			
R618	1-249-418-11	CARBON	1.2K 5% 1/4W	*A-1331-259-A	CR BOARD, COMPLETE		
R619	1-216-444-11	METAL OXIDE	82K 5% 1W F	*****			
R620	1-249-418-11	CARBON	1.2K 5% 1/4W F	<CAPACITOR>			
R621	1-247-691-11	CARBON	18 5% 1/4W F	C701	1-162-115-00	CERAMIC	330PF 10% 2KV
R622	1-249-424-11	CARBON	3.9K 5% 1/4W F	C702	1-123-948-00	ELECT	22MF 20% 250V
R623	1-249-417-11	CARBON	1K 5% 1/4W	C703	1-102-050-00	CERAMIC	0.01MF 500V
R624	1-214-780-00	METAL	130K 1% 1/4W	C704	1-162-115-00	CERAMIC	330PF 10% 2KV
R625	1-216-386-11	METAL OXIDE	0.56 5% 3W F	C705	1-130-479-00	MYLAR	0.0047MF 5% 50V
R626	1-216-356-00	METAL OXIDE	3.9 5% 1W F	C706	1-101-006-00	CERAMIC	0.047MF 50V
R627	1-202-883-11	SOLID	680K 20% 1/2W	C707	1-101-006-00	CERAMIC	0.047MF 50V
R628	1-249-410-11	CARBON	270 5% 1/4W F	C709	1-124-120-11	ELECT	220MF 20% 16V
R629	1-207-620-00	WIREWOUND	1 10% 3W F	C710	1-124-120-11	ELECT	220MF 20% 16V
R631	1-249-417-11	CARBON	1K 5% 1/4W F	C711	1-102-114-00	CERAMIC	470PF 10% 50V
R632	1-214-913-00	METAL	100K 1% 1/2W	<CONNECTOR>			
R633	1-249-429-11	CARBON	10K 5% 1/4W	CR1	*1-508-784-00	PIN, CONNECTOR (5MM PITCH)	1P
R634	1-249-441-11	CARBON	100K 5% 1/4W	CR3	*1-508-765-00	PIN, CONNECTOR (5MM PITCH)	3P
R635	1-215-897-11	METAL OXIDE	6.8K 5% 2W F	CR4	*1-564-511-31	PLUG, CONNECTOR	8P
R636	1-260-065-11	CARBON	1.2 5% 1/2W	CR15	*1-564-508-11	PLUG, CONNECTOR	5P
R638	1-249-405-11	CARBON	100 5% 1/4W F	<PICTURE TUBE SOCKET>			
R639	1-249-405-11	CARBON	100 5% 1/4W F	CRT701A	1-251-026-11	SOCKET, PICTURE TUBE	
R640	1-249-421-11	CARBON	2.2K 5% 1/4W F	<DIODE>			
R641	1-249-429-11	CARBON	10K 5% 1/4W	D701	8-719-911-19	DIODE	1SS119
R642	1-215-421-00	METAL	1K 1% 1/4W	D702	8-719-911-19	DIODE	1SS119
R643	1-260-123-11	CARBON	100K 5% 1/2W	D703	8-719-911-19	DIODE	1SS119
R644	1-249-415-11	CARBON	680 5% 1/4W	*****			
R645	1-249-417-11	CARBON	1K 5% 1/4W	*****			
R649	1-249-424-11	CARBON	3.9K 5% 1/4W	*****			
R650	1-249-377-11	CARBON	0.47 5% 1/4W F	*****			
R651	1-215-429-00	METAL	2.2K 1% 1/4W	*****			
<input checked="" type="checkbox"/> R652 Δ		METAL		*****			
R654	1-215-429-00	METAL	2.2K 1% 1/4W	*****			
R655	1-249-426-11	CARBON	5.6K 5% 1/4W	*****			
R656	1-215-454-00	METAL	24K 1% 1/4W	*****			
R657	1-216-386-11	METAL OXIDE	0.56 5% 3W F	*****			
R660	1-249-418-11	CARBON	1.2K 5% 1/4W	*****			
R661 Δ	1-202-884-91	SOLID	820K 20% 1/2W	*****			
R662 Δ	1-205-900-11	WIREWOUND	1.2 5% 15W	*****			
R663 Δ	1-215-904-91	METAL OXIDE	100K 5% 2W F	*****			

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

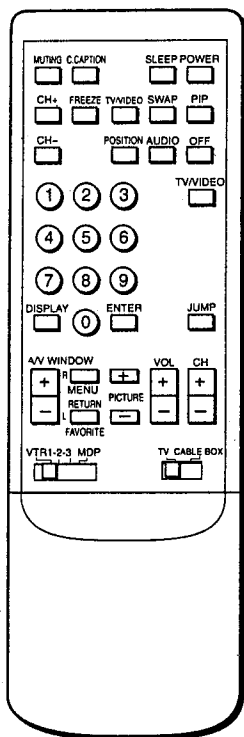
Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



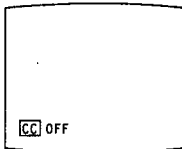
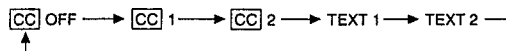
REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
D704	8-719-911-19	DIODE 1SS119		<CAPACITOR>			
D705	8-719-911-19	DIODE 1SS119		C731	1-162-115-00	CERAMIC 330PF 10%	2KV
D706	8-719-911-19	DIODE 1SS119		C732	1-123-948-00	ELECT 22MF 20%	250V
D707	8-719-110-36	DIODE RD13ES-82		C733	1-102-050-00	CERAMIC 0.01MF	500V
<COIL>				C734	1-162-115-00	CERAMIC 330PF 10%	2KV
L701	1-408-429-00	INDUCTOR 470UH		C735	1-130-479-00	MYLAR 0.0047MF 5%	50V
L702	1-408-159-00	COIL, SPOOK CHOKE 3.3UH		C736	1-101-006-00	CERAMIC 0.047MF	50V
L703	1-408-159-00	COIL, SPOOK CHOKE 3.3UH		C737	1-101-006-00	CERAMIC 0.047MF	50V
L704	1-408-413-00	INDUCTOR 22UH		C739	1-124-120-11	ELECT 220MF 20%	16V
<NEON LAMP>				C740	1-124-120-11	ELECT 220MF 20%	16V
NL701	1-519-108-99	LAMP, NEON		C741	1-102-114-00	CERAMIC 470PF 10%	50V
NL702	1-519-108-99	LAMP, NEON		<CONNECTOR>			
<TRANSISTOR>				CG1	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P	
Q701	8-729-119-78	TRANSISTOR 2SC2785-HFE		CG3	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
Q702	8-729-119-78	TRANSISTOR 2SC2785-HFE		CG16	*1-564-508-11	PLUG, CONNECTOR 5P	
Q703	8-729-119-80	TRANSISTOR 2SC2688-LK		<PICTURE TUBE SOCKET>			
	4-373-933-01	SHEET (TRANSISTOR), BN; Q703		CRT731A 1-251-026-11 SOCKET, PICTURE TUBE			
	4-382-854-11	SCREW (M3X10), P, SW (+); Q703		<DIODE>			
Q704	8-729-255-12	TRANSISTOR 2SC2551-0		D731	8-719-911-19	DIODE 1SS119	
Q705	8-729-200-17	TRANSISTOR 2SA1091-0		D732	8-719-911-19	DIODE 1SS119	
Q706	8-729-200-17	TRANSISTOR 2SA1091-0		D733	8-719-911-19	DIODE 1SS119	
<RESISTOR>				D734	8-719-911-19	DIODE 1SS119	
R701	1-202-847-00	SOLID 560K 20%	1/2W	D735	8-719-911-19	DIODE 1SS119	
R702	1-202-814-11	SOLID 33K 20%	1/2W	D736	8-719-911-19	DIODE 1SS119	
R703	1-202-818-00	SOLID 1K 20%	1/2W	D737	8-719-911-19	DIODE 1SS119	
R704	1-202-842-11	SOLID 220K 20%	1/2W	<COIL>			
R705	1-202-828-11	SOLID 6.8K 20%	1/2W	L731	1-408-429-00	INDUCTOR 470UH	
R706	1-202-561-00	SOLID 330 20%	1/2W	L732	1-408-159-00	COIL, SPOOK CHOKE 3.3UH	
R707	1-216-510-11	METAL OXIDE 8.2K 5%	5W	L733	1-408-159-00	COIL, SPOOK CHOKE 3.3UH	
R708	1-249-405-11	CARBON 100 5%	1/4W	L734	1-408-413-00	INDUCTOR 22UH	
R709	1-249-405-11	CARBON 100 5%	1/4W	<NEON LAMP>			
R710	1-215-927-00	METAL OXIDE 47K 5%	3W	NL731	1-519-108-99	LAMP, NEON	
R711	1-249-405-11	CARBON 100 5%	1/4W	NL732	1-519-108-99	LAMP, NEON	
R712	1-249-421-11	CARBON 2.2K 5%	1/4W	<TRANSISTOR>			
R714	1-249-401-11	CARBON 47 5%	1/4W	Q731	8-729-119-78	TRANSISTOR 2SC2785-HFE	
R716	1-249-405-11	CARBON 100 5%	1/4W	Q732	8-729-119-78	TRANSISTOR 2SC2785-HFE	
R717	1-249-403-11	CARBON 68 5%	1/4W	Q733	8-729-119-80	TRANSISTOR 2SC2688-LK	
R718	1-249-412-11	CARBON 390 5%	1/4W	Q734	8-729-255-12	TRANSISTOR 2SC2551-0	
R719	1-249-410-11	CARBON 270 5%	1/4W	Q735	8-729-200-17	TRANSISTOR 2SA1091-0	
R720	1-249-405-11	CARBON 100 5%	1/4W	Q736	8-729-200-17	TRANSISTOR 2SA1091-0	
R721	1-249-409-11	CARBON 220 5%	1/4W	<RESISTOR>			
R722	1-215-423-00	METAL 1.2K 1%	1/4W	R731	1-202-847-00	SOLID 560K 20%	1/2W
R723	1-249-410-11	CARBON 270 5%	1/4W	R732	1-202-814-11	SOLID 33K 20%	1/2W
R724	1-215-429-00	METAL 2.2K 1%	1/4W	R733	1-202-818-00	SOLID 1K 20%	1/2W
<SPARK GAP>				R734	1-202-842-11	SOLID 220K 20%	1/2W
SG701	1-519-422-11	GAP, SPARK		R735	1-202-828-11	SOLID 6.8K 20%	1/2W
SG702	1-519-422-11	GAP, SPARK		R736	1-202-561-00	SOLID 330 20%	1/2W
*****				R737	1-216-510-11	METAL OXIDE 8.2K 5%	5W
	*A-1331-260-A	CG BOARD, COMPLETE		R738	1-249-405-11	CARBON 100 5%	1/4W

	4-373-933-01	SHEET (TRANSISTOR), BN					
	4-382-854-11	SCREW (M3X10), P, SW (+)					

Using Closed Caption



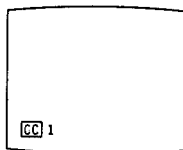
1 Press C. CAPTION.
The closed caption mode appears. CC1, CC2, TEXT1, TEXT2 or CC OFF appears in sequence each time you press C. CAPTION.



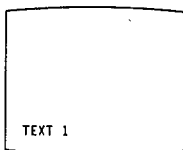
2 Press C. CAPTION repeatedly.



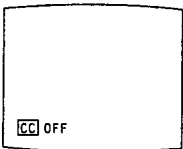
Select CC1 or CC2 to view Captions.
A Caption is a printed version of the dialogue or sound effects of a program. (The mode should be set to CC1 for most programs.)



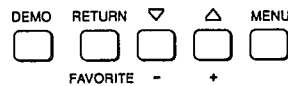
Select TEXT1 or TEXT2 to view Text.
Text is information that is presented using the half to full television screen. It is usually not related to the program.



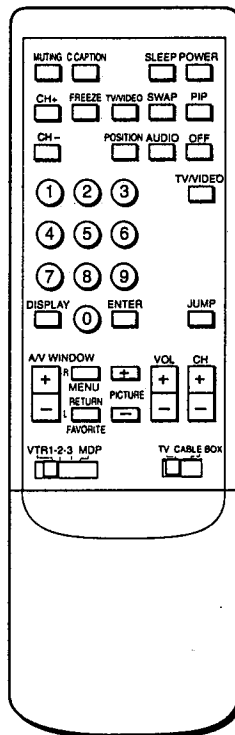
Select CC OFF if you don't want to view Closed Caption nor Text.



Using Convenient Features



Front inner panel



Muting the sound — MUTING

Press MUTING.
"MUTING" appears on the screen.



To restore the sound
Press MUTING again, or press VOL +.

Keeping the displays on-screen — DISPLAY

Press DISPLAY.
All the existing displays appear: channel number, channel caption (if set), MTS mode ("SAP" only), window picture input mode, and the current time ("AM" or "PM" disappears after about three seconds).

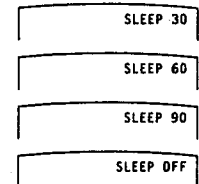


To turn off the displays
Press DISPLAY again.

Setting the sleep timer — SLEEP

The sleep timer turns off the projection TV automatically after the amount of time you select.

Press SLEEP.
Each time you press SLEEP, the time increments "30," "60," "90" and "OFF" mode appear in sequence.



A red "SLEEP" display appears about one minute before the projection TV goes off.

To cancel the setting.
Press SLEEP until OFF mode appears.
A green "SLEEP OFF" display appears for about three seconds.

OR
Turn the projection TV off.
The sleep timer setting is cancelled.

Switching quickly between two channels — JUMP

Use this function to keep track of two programs alternately.

To recall the channel you were watching previously
Press JUMP.



To switch back to the first channel
Press JUMP again.

Previewing the features — DEMO

Press DEMO (front inner panel).
Functions and menus are displayed one by one.



To restart DEMO from the beginning
Press DEMO again.

To stop DEMO
Press any button.



Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifique.

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

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R739	1-249-405-11	CARBON	100 5% 1/4W				
R740	1-215-927-00	METAL OXIDE	47K 5% 3W				
R741	1-249-405-11	CARBON	100 5% 1/4W				
R742	1-249-421-11	CARBON	2.2K 5% 1/4W				
R744	1-249-401-11	CARBON	47 5% 1/4W				
R745	1-215-455-00	METAL	27K 1% 1/4W				
R746	1-249-405-11	CARBON	100 5% 1/4W				
R747	1-249-403-11	CARBON	68 5% 1/4W				
R748	1-249-412-11	CARBON	390 5% 1/4W				
R749	1-249-410-11	CARBON	270 5% 1/4W				
R750	1-249-405-11	CARBON	100 5% 1/4W				
R751	1-249-409-11	CARBON	220 5% 1/4W				
R752	1-215-423-00	METAL	1.2K 1% 1/4W				
R754	1-215-429-00	METAL	2.2K 1% 1/4W				
*A-1331-261-A CB BOARD, COMPLETE							

4-373-933-01	SHEET (TRANSISTOR), BN						
4-382-854-11	SCREW (M3X10), P, SW (+)						
<SPARK GAP>							
SG731	1-519-422-11	GAP, SPARK					
SG732	1-519-422-11	GAP, SPARK					
<CAPACITOR>							
C761	1-162-115-00	CERAMIC	330PF 10% 2KV				
C762	1-123-948-00	ELECT	22MF 20% 250V				
C763	1-102-050-00	CERAMIC	0.01MF 500V				
C764	1-162-115-00	CERAMIC	330PF 10% 2KV				
C765	1-130-479-00	MYLAR	0.0047MF 5% 50V				
C766	1-101-006-00	CERAMIC	0.047MF 50V				
C767	1-101-006-00	CERAMIC	0.047MF 50V				
C769	1-124-120-11	ELECT	220MF 20% 16V				
C770	1-124-120-11	ELECT	220MF 20% 16V				
C771	1-102-114-00	CERAMIC	470PF 10% 50V				
<CONNECTOR>							
CB1	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P					
CB3	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P					
CB4	*1-564-511-11	PLUG, CONNECTOR 8P					
CB5	*1-564-511-21	PLUG, CONNECTOR 8P					
CB17	*1-564-508-11	PLUG, CONNECTOR 5P					
<PICTURE TUBE SOCKET>							
CRT761A 1-251-026-11 SOCKET, PICTURE TUBE							
<DIODE>							
D761	8-719-911-19	DIODE ISS119					
D762	8-719-911-19	DIODE ISS119					
D763	8-719-911-19	DIODE ISS119					
D764	8-719-911-19	DIODE ISS119					
D765	8-719-911-19	DIODE ISS119					
D766	8-719-911-19	DIODE ISS119					
D768	8-719-911-19	DIODE ISS119					
D769	8-719-109-81	DIODE RD4.7ES-B2					
<COIL>							
L761	1-408-429-00	INDUCTOR	470UH				
L762	1-408-159-00	COIL, SPOOK	CHOKO 3.3UH				
L763	1-408-159-00	COIL, SPOOK	CHOKO 3.3UH				
L764	1-408-413-00	INDUCTOR	22UH				
<NEON LAMP>							
NL761	1-519-108-99	LAMP, NEON					
NL762	1-519-108-99	LAMP, NEON					
<TRANSISTOR>							
Q761	8-729-119-78	TRANSISTOR 2SC2785-HFE					
Q762	8-729-119-78	TRANSISTOR 2SC2785-HFE					
Q763	8-729-119-80	TRANSISTOR 2SC2688-LK					
Q764	8-729-255-12	TRANSISTOR 2SC2551-0					
Q765	8-729-200-17	TRANSISTOR 2SA1091-0					
Q766	8-729-200-17	TRANSISTOR 2SA1091-0					
<RESISTOR>							
R761	1-202-847-00	SOLID	560K 20% 1/2W				
R762	1-202-814-11	SOLID	33K 20% 1/2W				
R763	1-202-818-00	SOLID	1K 20% 1/2W				
R764	1-202-842-11	SOLID	220K 20% 1/2W				
R765	1-202-828-11	SOLID	6.8K 20% 1/2W				
R766	1-202-561-00	SOLID	330 20% 1/2W				
R767	1-216-510-11	METAL OXIDE	8.2K 5% 5W				
R768	1-249-405-11	CARBON	100 5% 1/4W				
R769	1-249-405-11	CARBON	100 5% 1/4W				
R770	1-215-927-00	METAL OXIDE	47K 5% 3W				
R771	1-249-405-11	CARBON	100 5% 1/4W				
R772	1-249-421-11	CARBON	2.2K 5% 1/4W				
R773	1-249-413-11	CARBON	470 5% 1/4W				
R774	1-249-401-11	CARBON	47 5% 1/4W				
R776	1-249-405-11	CARBON	100 5% 1/4W				
R777	1-249-403-11	CARBON	68 5% 1/4W				
R778	1-249-412-11	CARBON	390 5% 1/4W				
R779	1-249-415-11	CARBON	680 5% 1/4W				
R780	1-249-405-11	CARBON	100 5% 1/4W				
R781	1-249-409-11	CARBON	220 5% 1/4W				
R782	1-215-423-00	METAL	1.2K 1% 1/4W				
R783	1-215-433-00	METAL	3.3K 1% 1/4W				
R784	1-215-429-00	METAL	2.2K 1% 1/4W				
R785	1-215-418-00	METAL	750 1% 1/4W				
<SPARK GAP>							
SG761	1-519-422-11	GAP, SPARK					
SG762	1-519-422-11	GAP, SPARK					

*A-1342-214-A V BOARD, COMPLETE							

*4-395-527-01 HOLDER (B), TR							
<CAPACITOR>							
C1501	1-102-129-00	CERAMIC	0.01MF 10% 50V				
C1502	1-126-101-11	ELECT	100MF 20% 16V				
C1504	1-106-383-00	MYLAR	0.047MF 200V				
C1505	1-124-907-11	ELECT	10MF 20% 50V				
C1506	1-106-359-00	MYLAR	0.0047MF 10% 200V				



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C1507	1-106-367-00	MYLAR	0.01MF	10%	100V		
C1508	1-162-318-11	CERAMIC	0.001MF	10%	500V		
C1509	1-106-367-00	MYLAR	0.01MF	10%	100V		
C1510	1-126-355-11	ELECT	33MF	20%	160V		
C1511	1-124-668-11	ELECT	2.2MF	20%	200V		
C1512	1-106-391-12	MYLAR	0.1MF	10%	200V		
C1513	1-162-318-11	CERAMIC	0.001MF	10%	500V		
C1514	1-102-951-00	CERAMIC	15PF	5%	50V		
C1515	1-102-959-00	CERAMIC	22PF	5%	50V		
C1516	1-102-963-00	CERAMIC	33PF	5%	50V		
C1517	1-123-875-11	ELECT	10MF	20%	50V		
C1518	1-102-074-00	CERAMIC	0.001MF	10%	50V		
C1519	1-106-359-00	MYLAR	0.0047MF	10%	200V		
C1520	1-126-803-11	ELECT	47MF	20%	16V		
C1521	1-124-907-11	ELECT	10MF	20%	50V		
C1534	1-101-003-00	CERAMIC	0.0047MF		50V		
C1551	1-124-122-11	ELECT	100MF	20%	50V		
C1552	1-124-122-11	ELECT	100MF	20%	50V		
C1553	1-102-824-00	CERAMIC	470PF	5%	50V		
C1554	1-102-824-00	CERAMIC	470PF	5%	50V		
C1555	1-130-483-00	MYLAR	0.01MF	5%	50V		
C1556	1-130-483-00	MYLAR	0.01MF	5%	50V		
C1557	1-102-824-00	CERAMIC	470PF	5%	50V		
C1558	1-102-824-00	CERAMIC	470PF	5%	50V		
C1559	1-102-824-00	CERAMIC	470PF	5%	50V		
C1560	1-102-824-00	CERAMIC	470PF	5%	50V		
C1561	1-130-483-00	MYLAR	0.01MF	5%	50V		
C1562	1-130-483-00	MYLAR	0.01MF	5%	50V		
C1563	1-130-483-00	MYLAR	0.01MF	5%	50V		
<DIODE>							
D1501	8-719-911-19	DIODE	1SS119				
D1502	8-719-911-19	DIODE	1SS119				
D1503	8-719-911-19	DIODE	1SS119				
D1504	8-719-911-19	DIODE	1SS119				
D1505	8-719-911-19	DIODE	1SS119				
D1506	8-719-911-19	DIODE	1SS119				
D1507	8-719-110-88	DIODE	RD39ES-B2				
D1508	8-719-110-88	DIODE	RD39ES-B2				
D1509	8-719-911-19	DIODE	1SS119				
<IC>							
IC1551	8-759-145-58	IC	UPC4558C				
IC1552	8-759-912-77	IC	LM324N				
<COIL>							
L1502	1-408-418-00	INDUCTOR	56UH				
<TRANSISTOR>							
Q1501	8-729-208-39	TRANSISTOR	2SA1306A-Y				
Q1502	8-729-017-06	TRANSISTOR	2SC4793				
Q1503	8-729-119-78	TRANSISTOR	2SC2785-HFE				
Q1504	8-729-119-78	TRANSISTOR	2SC2785-HFE				
Q1505	8-729-119-76	TRANSISTOR	2SA1175-HFE				
Q1506	8-729-119-78	TRANSISTOR	2SC2785-HFE				
Q1507	8-729-119-78	TRANSISTOR	2SC2785-HFE				
Q1508	8-729-142-86	TRANSISTOR	2SC3733				
Q1551	8-729-231-60	TRANSISTOR	2SD1406-YGR				
Q1552	8-729-202-02	TRANSISTOR	2SB1015-Y				
Q1553	8-729-231-60	TRANSISTOR	2SD1406-YGR				
Q1554	8-729-202-02	TRANSISTOR	2SB1015-Y				
Q1555	8-729-231-60	TRANSISTOR	2SD1406-YGR				
Q1556	8-729-202-02	TRANSISTOR	2SB1015-Y				
<RESISTOR>							
R1501	1-249-451-11	CARBON	2.2	5%	1/4W	F	
R1502	1-249-414-11	CARBON	560	5%	1/4W	F	
R1503	1-247-734-11	CARBON	39	5%	1/2W	F	
R1504	1-249-384-11	CARBON	1.8	5%	1/4W	F	
R1505	1-249-405-11	CARBON	100	5%	1/4W		
R1506	1-249-419-11	CARBON	1.5K	5%	1/4W		
R1507	1-249-412-11	CARBON	390	5%	1/4W		
R1508	1-249-436-11	CARBON	39K	5%	1/4W		
R1509	1-249-421-11	CARBON	2.2K	5%	1/4W		
R1510	1-249-436-11	CARBON	39K	5%	1/4W		
R1511	1-249-418-11	CARBON	1.2K	5%	1/4W		
R1512	1-249-441-11	CARBON	100K	5%	1/4W		
R1513	1-249-432-11	CARBON	18K	5%	1/4W		
R1514	1-249-405-11	CARBON	100	5%	1/4W		
R1515	1-249-435-11	CARBON	33K	5%	1/4W		
R1517	1-247-713-11	CARBON	1K	5%	1/4W	F	
R1519	1-215-916-00	METAL OXIDE	680	5%	3W	F	
R1520	1-249-432-11	CARBON	18K	5%	1/4W		
R1521	1-249-414-11	CARBON	560	5%	1/4W		
R1522	1-249-384-11	CARBON	1.8	5%	1/4W	F	
R1523	1-249-400-11	CARBON	39	5%	1/4W	F	
R1524	1-249-418-11	CARBON	1.2K	5%	1/4W		
R1525	1-249-421-11	CARBON	2.2K	5%	1/4W		
R1526	1-249-426-11	CARBON	5.6K	5%	1/4W		
R1527	1-249-414-11	CARBON	560	5%	1/4W		
R1528	1-249-429-11	CARBON	10K	5%	1/4W		
R1529	1-249-414-11	CARBON	560	5%	1/4W		
R1530	1-216-451-11	METAL OXIDE	120	5%	2W	F	
R1531	1-249-429-11	CARBON	10K	5%	1/4W		
R1532	1-249-421-11	CARBON	2.2K	5%	1/4W		
R1533	1-247-903-91	CARBON	1M	5%	1/4W		
R1534	1-249-423-11	CARBON	3.3K	5%	1/4W		
R1535	1-249-392-11	CARBON	8.2	5%	1/4W	F	
R1540	1-215-445-00	METAL	10K	1%	1/4W		
R1541	1-215-445-00	METAL	10K	1%	1/4W		
R1542	1-215-445-00	METAL	10K	1%	1/4W		
R1551	1-215-445-00	METAL	10K	1%	1/4W		
R1552	1-215-423-00	METAL	1.2K	1%	1/4W		
R1553	1-249-417-11	CARBON	1K	5%	1/4W		
R1554	1-215-445-00	METAL	10K	1%	1/4W		
R1555	1-215-375-00	METAL	12	1%	1/4W		
R1556	1-215-375-00	METAL	12	1%	1/4W		
R1557	1-215-375-00	METAL	12	1%	1/4W		
R1558	1-215-445-00	METAL	10K	1%	1/4W		
R1559	1-215-445-00	METAL	10K	1%	1/4W		
R1560	1-215-445-00	METAL	10K	1%	1/4W		
R1561	1-215-423-00	METAL	1.2K	1%	1/4W		
R1562	1-215-423-00	METAL	1.2K	1%	1/4W		
R1563	1-215-445-00	METAL	10K	1%	1/4W		
R1564	1-249-417-11	CARBON	1K	5%	1/4W		
R1565	1-215-445-00	METAL	10K	1%	1/4W		
R1566	1-215-375-00	METAL	12	1%	1/4W		
R1567	1-215-375-00	METAL	12	1%	1/4W		
R1568	1-215-375-00	METAL	12	1%	1/4W		
R1569	1-215-445-00	METAL	10K	1%	1/4W		
R1570	1-215-445-00	METAL	10K	1%	1/4W		
R1571	1-249-417-11	CARBON	1K	5%	1/4W		
R1572	1-215-445-00	METAL	10K	1%	1/4W		



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1573	1-215-375-00	METAL 12 1% 1/4W		C1705	1-102-963-00	CERAMIC 33PF 5% 50V	
R1574	1-215-375-00	METAL 12 1% 1/4W		C1706	1-102-963-00	CERAMIC 33PF 5% 50V	
R1575	1-215-375-00	METAL 12 1% 1/4W		C1707	1-102-963-00	CERAMIC 33PF 5% 50V	
R1576	1-215-445-00	METAL 10K 1% 1/4W		C1708	1-102-963-00	CERAMIC 33PF 5% 50V	
R1577	1-215-445-00	METAL 10K 1% 1/4W		C1709	1-102-963-00	CERAMIC 33PF 5% 50V	
R1578	1-249-417-11	CARBON 1K 5% 1/4W		C1710	1-102-963-00	CERAMIC 33PF 5% 50V	
R1579	1-249-417-11	CARBON 1K 5% 1/4W		C1711	1-126-233-11	ELECT 22MF 20% 50V	
R1580	1-249-417-11	CARBON 1K 5% 1/4W		C1712	1-124-916-11	ELECT 22MF 20% 25V	
R1581	1-249-432-11	CARBON 18K 5% 1/4W		C1713	1-102-074-00	CERAMIC 0.001MF 10% 50V	
R1582	1-249-432-11	CARBON 18K 5% 1/4W		C1714	1-124-478-11	ELECT 100MF 20% 25V	
<CONNECTOR>				C1715	1-124-478-11	ELECT 100MF 20% 25V	
V2	*1-564-518-11	PLUG, CONNECTOR 3P		C1716	1-126-803-11	ELECT 47MF 20% 25V	
V22	1-573-300-11	CONNECTOR, BOARD TO BOARD 18P		C1717	1-126-803-11	ELECT 47MF 20% 25V	
*****				C1718	1-102-074-00	CERAMIC 0.001MF 10% 50V	
*A-1346-117-A	D BOARD, COMPLETE			C1719	1-124-234-00	ELECT 22MF 20% 16V	
	*****			C1720	1-130-491-00	MYLAR 0.047MF 5% 50V	
1-533-223-11	CLIP, FUSE			C1721	1-130-491-00	MYLAR 0.047MF 5% 50V	
4-382-854-11	SCREW (M3X10), P, SW (+)			C1722	1-130-491-00	MYLAR 0.047MF 5% 50V	
*4-395-527-01	HOLDER (B), TR			C1724	1-124-234-00	ELECT 22MF 20% 16V	
<CAPACITOR>				C1725	1-102-963-00	CERAMIC 33PF 5% 50V	
C901	1-126-320-11	ELECT 10MF 20% 16V		C1726	1-124-122-11	ELECT 100MF 20% 35V	
C902	1-124-477-11	ELECT 47MF 20% 16V		C1727	1-102-963-00	CERAMIC 33PF 5% 50V	
C903	1-130-471-00	MYLAR 0.001MF 5% 50V		C1728	1-102-963-00	CERAMIC 33PF 5% 50V	
C904	1-130-471-00	MYLAR 0.001MF 5% 50V		C1729	1-108-426-91	MYLAR 0.027MF 200V	
C905	1-124-477-11	ELECT 47MF 20% 16V		C1730	1-102-963-00	CERAMIC 33PF 5% 50V	
C906	1-126-233-11	ELECT 22MF 20% 50V		C1731	1-124-122-11	ELECT 100MF 20% 35V	
C907	1-126-101-11	ELECT 100MF 20% 16V		C1732	1-108-426-91	MYLAR 0.027MF 200V	
C908	1-124-907-11	ELECT 10MF 20% 50V		C1733	1-102-963-00	CERAMIC 33PF 5% 50V	
C909	1-130-483-00	MYLAR 0.01MF 5% 50V		C1734	1-102-963-00	CERAMIC 33PF 5% 50V	
C910	1-131-341-00	TANTALUM 0.1MF 20% 16V		C1735	1-124-122-11	ELECT 100MF 20% 35V	
C911	1-131-341-00	TANTALUM 0.1MF 20% 16V		C1736	1-108-426-91	MYLAR 0.027MF 200V	
C912	1-124-903-11	ELECT 1MF 20% 50V		C1737	1-124-937-11	ELECT 10MF 20% 16V	
C913	1-126-233-11	ELECT 22MF 20% 50V		C1738	1-124-122-11	ELECT 100MF 20% 35V	
C914	1-126-803-11	ELECT 47MF 20% 16V		C1739	1-136-153-00	FILM 0.01MF 5% 50V	
C915	1-124-927-11	ELECT 4.7MF 20% 50V		C1740	1-124-122-11	ELECT 100MF 20% 35V	
C916	1-102-074-00	CERAMIC 0.001MF 10% 50V		C1741	1-124-122-11	ELECT 100MF 20% 35V	
C917	1-130-471-00	MYLAR 0.001MF 5% 50V		C1742	1-126-104-11	ELECT 470MF 20% 35V	
C918	1-102-963-00	CERAMIC 33PF 5% 50V		C1744	1-124-478-11	ELECT 100MF 20% 25V	
C919	1-102-963-00	CERAMIC 33PF 5% 50V		C1745	1-126-375-11	ELECT 100MF 20% 25V	
C920	1-102-963-00	CERAMIC 33PF 5% 50V		C1755	1-106-220-00	MYLAR 0.1MF 10% 100V	
C921	1-102-963-00	CERAMIC 33PF 5% 50V		C1756	1-106-220-00	MYLAR 0.1MF 10% 100V	
C922	1-102-963-00	CERAMIC 33PF 5% 50V		C1757	1-106-220-00	MYLAR 0.1MF 10% 100V	
C923	1-102-963-00	CERAMIC 33PF 5% 50V		C1758	1-106-220-00	MYLAR 0.1MF 10% 100V	
C931	1-102-973-00	CERAMIC 100PF 5% 50V		C1759	1-106-220-00	MYLAR 0.1MF 10% 100V	
C932	1-124-903-11	ELECT 1MF 20% 50V		C1760	1-106-220-00	MYLAR 0.1MF 10% 100V	
C933	1-124-234-00	ELECT 22MF 20% 16V		C1763	1-126-096-11	ELECT 10MF 20% 25V	
C934	1-124-234-00	ELECT 22MF 20% 16V		C1764	1-124-477-11	ELECT 47MF 20% 16V	
C935	1-124-234-00	ELECT 22MF 20% 16V		C1765	1-124-477-11	ELECT 47MF 20% 16V	
C936	1-124-234-00	ELECT 22MF 20% 16V		C1766	1-126-101-11	ELECT 100MF 20% 16V	
C937	1-124-234-00	ELECT 22MF 20% 16V		C1769	1-126-157-11	ELECT 10MF 20% 16V	
C938	1-124-234-00	ELECT 22MF 20% 16V		C1770	1-130-495-00	MYLAR 0.1MF 5% 50V	
C939	1-124-234-00	ELECT 22MF 20% 16V		C1771	1-126-096-11	ELECT 10MF 20% 25V	
C940	1-124-916-11	ELECT 22MF 20% 25V		C1772	1-126-096-11	ELECT 10MF 20% 25V	
C941	1-102-123-00	CERAMIC 0.0033MF 10% 50V		C1861	1-102-074-00	CERAMIC 0.001MF 10% 50V	
C942	1-102-123-00	CERAMIC 0.0033MF 10% 50V		<CONNECTOR>			
C943	1-102-123-00	CERAMIC 0.0033MF 10% 50V		D1	*1-564-510-11	PLUG, CONNECTOR 7P	
C1701	1-124-907-11	ELECT 10MF 20% 50V		D2	*1-564-511-11	PLUG, CONNECTOR 8P	
C1702	1-124-907-11	ELECT 10MF 20% 50V		D3	*1-564-512-11	PLUG, CONNECTOR 9P	
C1703	1-124-907-11	ELECT 10MF 20% 50V		D4	*1-564-508-11	PLUG, CONNECTOR 5P	
C1704	1-123-875-11	ELECT 10MF 20% 50V		D5	*1-564-511-11	PLUG, CONNECTOR 8P	
				D6	1-691-169-11	PIN, CONNECTOR 12P	

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

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifique.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
D7	*1-564-507-11	PLUG, CONNECTOR 4P					
D8	*1-564-506-11	PLUG, CONNECTOR 3P					
D9	*1-564-507-11	PLUG, CONNECTOR 4P					
D14	*1-564-513-31	PLUG, CONNECTOR 10P					
<DIODE>				<COIL>			
D901	8-719-911-19	DIODE 1SS119		L901	1-459-313-00	COIL WITH CORE (HWC)	
D902	8-719-911-19	DIODE 1SS119		L902	1-459-313-00	COIL WITH CORE (HWC)	
D1701	8-719-900-95	DIODE V09G		L903	1-459-313-00	COIL WITH CORE (HWC)	
D1702	8-719-911-19	DIODE 1SS119		L904	1-459-313-00	COIL WITH CORE (HWC)	
D1703	8-719-900-95	DIODE V09G		<TRANSISTOR>			
D1704	8-719-900-95	DIODE V09G		Q902	8-729-900-89	TRANSISTOR DTC144ES	
D1705	8-719-900-95	DIODE V09G		Q906	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D1706	8-719-900-95	DIODE V09G		Q907	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D1707	8-719-911-19	DIODE 1SS119		Q908	8-729-900-89	TRANSISTOR DTC144ES	
D1708	8-719-911-19	DIODE 1SS119		Q909	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D1709	8-719-911-19	DIODE 1SS119		Q910	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D1710	8-719-911-19	DIODE 1SS119		Q911	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D1711	8-719-911-19	DIODE 1SS119		Q912	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D1712	8-719-911-19	DIODE 1SS119		<RESISTOR>			
D1713	8-719-911-19	DIODE 1SS119		R901	1-215-463-00	METAL	56K 1% 1/4W
D1714	8-719-911-19	DIODE 1SS119		R902	1-215-463-00	METAL	56K 1% 1/4W
D1715	8-719-911-19	DIODE 1SS119		R903	1-215-449-00	METAL	15K 1% 1/4W
D1716	8-719-911-19	DIODE 1SS119		R904	1-215-455-00	METAL	27K 1% 1/4W
D1717	8-719-911-19	DIODE 1SS119		R905	1-215-449-00	METAL	15K 1% 1/4W
D1718	8-719-911-19	DIODE 1SS119		R906	1-215-469-00	METAL	100K 1% 1/4W
D1720	8-719-109-50	DIODE RD2.OES-B1		R907	1-215-469-00	METAL	100K 1% 1/4W
D1721	8-719-109-50	DIODE RD2.OES-B1		R908	1-215-469-00	METAL	100K 1% 1/4W
D1722	8-719-109-50	DIODE RD2.OES-B1		R909	1-215-473-00	METAL	150K 1% 1/4W
D1723	8-719-109-50	DIODE RD2.OES-B1		R910	1-215-437-00	METAL	4.7K 1% 1/4W
<FUSE>				R911	1-215-453-00	METAL	22K 1% 1/4W
F901	Δ 1-532-745-11	FUSE, GLASS TUBE 3.15A/125V		R912	1-215-453-00	METAL	22K 1% 1/4W
F902	Δ 1-532-745-11	FUSE, GLASS TUBE 3.15A/125V		R913	1-215-437-00	METAL	4.7K 1% 1/4W
<IC>				R914	1-215-453-00	METAL	22K 1% 1/4W
IC901	8-759-145-58	IC UPC4558C		R915	1-215-413-00	METAL	470 1% 1/4W
IC902	8-752-033-68	IC CXA1268P		R916	1-215-457-00	METAL	33K 1% 1/4W
IC903	8-759-701-56	IC NJM78M05FA		R917	1-215-453-00	METAL	22K 1% 1/4W
IC904	8-759-701-65	IC NJM79M05FA		R919	1-215-399-00	METAL	120 1% 1/4W
IC905	8-759-701-89	IC NJM7915FA		R920	1-215-399-00	METAL	120 1% 1/4W
IC906	8-759-148-84	IC UPC2415HF		R921	1-215-399-00	METAL	120 1% 1/4W
IC907	8-759-140-53	IC UPD4053BC		R922	1-215-399-00	METAL	120 1% 1/4W
IC908	8-759-145-58	IC UPC4558C		R923	1-215-441-00	METAL	6.8K 1% 1/4W
IC910	8-759-054-40	IC PA0036		R924	1-215-441-00	METAL	6.8K 1% 1/4W
IC1701	8-759-602-19	IC M5220L		R925	1-215-441-00	METAL	6.8K 1% 1/4W
IC1702	8-759-602-19	IC M5220L		R926	1-215-463-00	METAL	56K 1% 1/4W
IC1703	8-759-602-19	IC M5220L		R927	1-215-463-00	METAL	56K 1% 1/4W
IC1704	8-749-923-16	IC STR4278-L		R928	1-215-461-00	METAL	47K 1% 1/4W
IC1705	8-749-923-16	IC STR4278-L		R929	1-215-433-00	METAL	3.3K 1% 1/4W
IC1706	8-759-113-13	IC UPC1498H		R930	1-215-433-00	METAL	3.3K 1% 1/4W
IC1707	8-759-113-13	IC UPC1498H		R931	1-215-433-00	METAL	3.3K 1% 1/4W
IC1708	8-759-113-13	IC UPC1498H		R932	1-215-433-00	METAL	3.3K 1% 1/4W
IC1709	8-759-145-58	IC UPC4558C		R933	1-215-433-00	METAL	3.3K 1% 1/4W
IC1710	8-759-145-58	IC UPC4558C		R934	1-215-433-00	METAL	3.3K 1% 1/4W
IC1714	8-759-145-58	IC UPC4558C		R935	1-215-439-00	METAL	5.6K 1% 1/4W
IC1715	8-759-145-58	IC UPC4558C		R936	1-215-439-00	METAL	5.6K 1% 1/4W
IC1718	8-759-145-58	IC UPC4558C		R937	1-215-439-00	METAL	5.6K 1% 1/4W
				R938	1-215-417-00	METAL	680 1% 1/4W
				R939	1-215-433-00	METAL	3.3K 1% 1/4W
				R940	1-215-429-00	METAL	2.2K 1% 1/4W
				R941	1-215-441-00	METAL	6.8K 1% 1/4W
				R942	1-215-451-00	METAL	18K 1% 1/4W
				R943	1-215-441-00	METAL	6.8K 1% 1/4W
				R944	1-215-439-00	METAL	5.6K 1% 1/4W
				R945	1-215-445-00	METAL	10K 1% 1/4W
				R946	1-215-445-00	METAL	10K 1% 1/4W
				R947	1-215-439-00	METAL	5.6K 1% 1/4W



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R948	1-215-447-00	METAL	12K 1% 1/4W	R1714	1-249-411-11	CARBON	330 5% 1/4W
R949	1-215-439-00	METAL	5.6K 1% 1/4W	R1715	1-249-411-11	CARBON	330 5% 1/4W
R950	1-215-429-00	METAL	2.2K 1% 1/4W	R1716	1-215-886-11	METAL OXIDE	100 5% 2W F
R951	1-215-429-00	METAL	2.2K 1% 1/4W	R1717	1-249-411-11	CARBON	330 5% 1/4W
R952	1-215-429-00	METAL	2.2K 1% 1/4W	R1718	1-249-417-11	CARBON	1K 5% 1/4W
R953	1-215-439-00	METAL	5.6K 1% 1/4W	R1719	1-214-792-00	METAL	1 1% 1/2W
R954	1-215-439-00	METAL	5.6K 1% 1/4W	R1720	1-249-411-11	CARBON	330 5% 1/4W
R955	1-215-435-00	METAL	3.9K 1% 1/4W	R1721	1-249-417-11	CARBON	1K 5% 1/4W
R956	1-215-437-00	METAL	4.7K 1% 1/4W	R1722	1-249-411-11	CARBON	330 5% 1/4W
R957	1-215-441-00	METAL	6.8K 1% 1/4W	R1723	1-249-417-11	CARBON	1K 5% 1/4W
R958	1-215-437-00	METAL	4.7K 1% 1/4W	R1724	1-215-886-11	METAL OXIDE	100 5% 2W F
R959	1-215-439-00	METAL	5.6K 1% 1/4W	R1725	1-215-886-11	METAL OXIDE	100 5% 2W F
R960	1-215-439-00	METAL	5.6K 1% 1/4W	R1726	1-215-886-11	METAL OXIDE	100 5% 2W F
R961	1-215-439-00	METAL	5.6K 1% 1/4W	R1727	1-214-792-00	METAL	1 1% 1/2W
R962	1-215-441-00	METAL	6.8K 1% 1/4W	R1728	1-214-792-00	METAL	1 1% 1/2W
R963	1-215-441-00	METAL	6.8K 1% 1/4W	R1729	1-214-792-00	METAL	1 1% 1/2W
R964	1-215-441-00	METAL	6.8K 1% 1/4W	R1730	1-249-405-11	CARBON	100 5% 1/4W
R965	1-215-909-11	METAL OXIDE	47 5% 3W F	R1731	1-249-417-11	CARBON	1K 5% 1/4W
R966	1-215-469-00	METAL	100K 1% 1/4W	R1732	1-249-405-11	CARBON	100 5% 1/4W
R967	1-215-421-00	METAL	1K 1% 1/4W	R1733	1-249-405-11	CARBON	100 5% 1/4W
R968	1-215-437-00	METAL	4.7K 1% 1/4W	R1734	1-249-405-11	CARBON	100 5% 1/4W
R969	1-249-421-11	CARBON	2.2K 5% 1/4W	R1735	1-249-405-11	CARBON	100 5% 1/4W
R970	1-215-909-11	METAL OXIDE	47 5% 3W F	R1736	1-249-423-11	CARBON	3.3K 5% 1/4W
R971	1-249-421-11	CARBON	2.2K 5% 1/4W	R1737	1-249-423-11	CARBON	3.3K 5% 1/4W
R972	1-249-431-11	CARBON	15K 5% 1/4W	R1738	1-249-423-11	CARBON	3.3K 5% 1/4W
R973	1-249-431-11	CARBON	15K 5% 1/4W	R1739	1-249-423-11	CARBON	3.3K 5% 1/4W
R974	1-215-399-00	METAL	120 1% 1/4W	R1740	1-249-417-11	CARBON	1K 5% 1/4W
R975	1-215-399-00	METAL	120 1% 1/4W	R1741	1-249-423-11	CARBON	3.3K 5% 1/4W
R976	1-215-399-00	METAL	120 1% 1/4W	R1742	1-249-423-11	CARBON	3.3K 5% 1/4W
R977	1-215-399-00	METAL	120 1% 1/4W	R1743	1-249-417-11	CARBON	1K 5% 1/4W
R978	1-215-399-00	METAL	120 1% 1/4W	R1744	1-249-411-11	CARBON	330 5% 1/4W
R979	1-215-399-00	METAL	120 1% 1/4W	R1745	1-249-405-11	CARBON	100 5% 1/4W
R980	1-215-399-00	METAL	120 1% 1/4W	R1746	1-214-792-00	METAL	1 1% 1/2W
R981	1-215-399-00	METAL	120 1% 1/4W	R1747	1-215-886-11	METAL OXIDE	100 5% 2W F
R982	1-249-431-11	CARBON	15K 5% 1/4W	R1748	1-215-421-00	METAL	1K 1% 1/4W
R983	1-249-431-11	CARBON	15K 5% 1/4W	R1749	1-215-421-00	METAL	1K 1% 1/4W
R984	1-214-804-11	METAL	3.3 1% 1/2W	R1750	1-215-421-00	METAL	1K 1% 1/4W
R985	1-214-804-11	METAL	3.3 1% 1/2W	R1751	1-215-421-00	METAL	1K 1% 1/4W
R986	1-214-804-11	METAL	3.3 1% 1/2W	R1752	1-215-421-00	METAL	1K 1% 1/4W
R987	1-215-421-00	METAL	1K 1% 1/4W	R1753	1-215-421-00	METAL	1K 1% 1/4W
R988	1-215-421-00	METAL	1K 1% 1/4W	R1754	1-214-792-00	METAL	1 1% 1/2W
R989	1-215-421-00	METAL	1K 1% 1/4W	R1755	1-215-469-00	METAL	100K 1% 1/4W
R990	1-215-421-00	METAL	1K 1% 1/4W	R1756	1-215-437-00	METAL	4.7K 1% 1/4W
R991	1-215-421-00	METAL	1K 1% 1/4W	R1757	1-215-437-00	METAL	4.7K 1% 1/4W
R992	1-215-421-00	METAL	1K 1% 1/4W	R1758	1-215-437-00	METAL	4.7K 1% 1/4W
R993	1-249-429-11	CARBON	10K 5% 1/4W	R1759	1-249-405-11	CARBON	100 5% 1/4W
R994	1-249-429-11	CARBON	10K 5% 1/4W	R1760	1-249-427-11	CARBON	6.8K 5% 1/4W
R995	1-215-457-00	METAL	33K 1% 1/4W	R1761	1-249-419-11	CARBON	1.5K 5% 1/4W
R997	1-215-463-00	METAL	56K 1% 1/4W	R1762	1-215-445-00	METAL	10K 1% 1/4W
R998	1-215-409-00	METAL	330 1% 1/4W	R1763	1-249-427-11	CARBON	6.8K 5% 1/4W
R999	1-215-455-00	METAL	27K 1% 1/4W	R1764	1-249-419-11	CARBON	1.5K 5% 1/4W
R1701	1-249-411-11	CARBON	330 5% 1/4W	R1765	1-249-419-11	CARBON	1.5K 5% 1/4W
R1702	1-249-427-11	CARBON	6.8K 5% 1/4W	R1766	1-249-427-11	CARBON	6.8K 5% 1/4W
R1703	1-249-427-11	CARBON	6.8K 5% 1/4W	R1767	1-249-427-11	CARBON	6.8K 5% 1/4W
R1704	1-249-411-11	CARBON	330 5% 1/4W	R1768	1-249-439-11	CARBON	68K 5% 1/4W
R1705	1-249-411-11	CARBON	330 5% 1/4W	R1769	1-215-445-00	METAL	10K 1% 1/4W
R1706	1-249-427-11	CARBON	6.8K 5% 1/4W	R1770	1-249-405-11	CARBON	100 5% 1/4W
R1707	1-249-411-11	CARBON	330 5% 1/4W	R1771	1-249-405-11	CARBON	100 5% 1/4W
R1708	1-249-427-11	CARBON	6.8K 5% 1/4W	R1772	1-215-429-00	METAL	2.2K 1% 1/4W
R1709	1-249-427-11	CARBON	6.8K 5% 1/4W	R1773	1-215-429-00	METAL	2.2K 1% 1/4W
R1710	1-249-411-11	CARBON	330 5% 1/4W	R1774	1-215-421-00	METAL	1K 1% 1/4W
R1711	1-249-411-11	CARBON	330 5% 1/4W	R1775	1-249-429-11	CARBON	10K 5% 1/4W
R1712	1-249-427-11	CARBON	6.8K 5% 1/4W	R1776	1-215-421-00	METAL	1K 1% 1/4W
R1713	1-215-886-11	METAL OXIDE	100 5% 2W F				

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1777	1-249-423-11	CARBON	3.3K 5% 1/4W	R1861	1-215-453-00	METAL	22K 1% 1/4W
R1778	1-215-421-00	METAL	1K 1% 1/4W	R1862	1-215-453-00	METAL	22K 1% 1/4W
R1779	1-215-898-11	METAL OXIDE	10K 5% 2W F	R1863	1-215-397-00	METAL	100 1% 1/4W
R1780	1-214-804-11	METAL	3.3 1% 1/2W	R1864	1-215-437-00	METAL	4.7K 1% 1/4W
R1781	1-214-804-11	METAL	3.3 1% 1/2W	R1865	1-215-453-00	METAL	22K 1% 1/4W
R1782	1-215-898-11	METAL OXIDE	10K 5% 2W F	R1866	1-215-453-00	METAL	22K 1% 1/4W
R1783	1-214-804-11	METAL	3.3 1% 1/2W	R1867	1-215-437-00	METAL	4.7K 1% 1/4W
R1784	1-214-804-11	METAL	3.3 1% 1/2W	R1868	1-215-439-00	METAL	5.6K 1% 1/4W
R1785	1-215-898-11	METAL OXIDE	10K 5% 2W F	R1869	1-215-445-00	METAL	10K 1% 1/4W
R1786	1-214-804-11	METAL	3.3 1% 1/2W	R1870	1-215-445-00	METAL	10K 1% 1/4W
R1787	1-214-804-11	METAL	3.3 1% 1/2W	R1871	1-215-445-00	METAL	10K 1% 1/4W
R1788	1-249-433-11	CARBON	22K 5% 1/4W	R1872	1-215-437-00	METAL	4.7K 1% 1/4W
R1789	1-249-441-11	CARBON	100K 5% 1/4W	R1873	1-215-437-00	METAL	4.7K 1% 1/4W
R1790	1-249-433-11	CARBON	22K 5% 1/4W	R1874	1-215-437-00	METAL	4.7K 1% 1/4W
R1791	1-249-429-11	CARBON	10K 5% 1/4W	R1875	1-215-437-00	METAL	4.7K 1% 1/4W
R1792	1-215-445-00	METAL	10K 1% 1/4W	R1876	1-215-437-00	METAL	4.7K 1% 1/4W
R1793	1-249-405-11	CARBON	100 5% 1/4W	R1877	1-215-437-00	METAL	4.7K 1% 1/4W
R1794	1-215-429-00	METAL	2.2K 1% 1/4W	R1878	1-215-475-00	METAL	180K 1% 1/4W
R1795	1-249-433-11	CARBON	22K 5% 1/4W	R1879	1-215-475-00	METAL	180K 1% 1/4W
R1796	1-249-405-11	CARBON	100 5% 1/4W	R1880	1-215-475-00	METAL	180K 1% 1/4W
R1797	1-249-429-11	CARBON	10K 5% 1/4W	R1881	1-215-461-00	METAL	47K 1% 1/4W
R1798	1-249-423-11	CARBON	3.3K 5% 1/4W	R1882	1-215-445-00	METAL	10K 1% 1/4W
R1800	1-249-405-11	CARBON	100 5% 1/4W	R1883	1-215-453-00	METAL	22K 1% 1/4W
R1801	1-215-439-00	METAL	5.6K 1% 1/4W	R1884	1-215-397-00	METAL	100 1% 1/4W
R1802	1-215-439-00	METAL	5.6K 1% 1/4W	R1885	1-215-445-00	METAL	10K 1% 1/4W
R1803	1-215-439-00	METAL	5.6K 1% 1/4W	R1886	1-215-445-00	METAL	10K 1% 1/4W
R1805	1-215-439-00	METAL	5.6K 1% 1/4W	R1887	1-215-397-00	METAL	100 1% 1/4W
R1806	1-249-405-11	CARBON	100 5% 1/4W	R1888	1-215-461-00	METAL	47K 1% 1/4W
R1807	1-249-405-11	CARBON	100 5% 1/4W	R1889	1-215-457-00	METAL	33K 1% 1/4W
R1808	1-214-792-00	METAL	1 1% 1/2W	R1890	1-215-457-00	METAL	33K 1% 1/4W
R1809	1-214-792-00	METAL	1 1% 1/2W	R1891	1-215-443-00	METAL	8.2K 1% 1/4W
R1810	1-214-792-00	METAL	1 1% 1/2W	R1892	1-215-445-00	METAL	10K 1% 1/4W
R1811	1-214-792-00	METAL	1 1% 1/2W	R1894	1-215-429-00	METAL	2.2K 1% 1/4W
R1812	1-214-792-00	METAL	1 1% 1/2W	R1895	1-215-445-00	METAL	10K 1% 1/4W
R1813	1-214-792-00	METAL	1 1% 1/2W	R1896	1-215-445-00	METAL	10K 1% 1/4W
R1814	1-249-431-11	CARBON	15K 5% 1/4W	R1897	1-215-449-00	METAL	15K 1% 1/4W
R1815	1-247-885-00	CARBON	180K 5% 1/4W	R1898	1-215-445-00	METAL	10K 1% 1/4W
R1816	1-249-431-11	CARBON	15K 5% 1/4W	R1899	1-215-421-00	METAL	1K 1% 1/4W
R1817	1-247-885-00	CARBON	180K 5% 1/4W	R1900	1-215-429-00	METAL	2.2K 1% 1/4W
R1818	1-249-405-11	CARBON	100 5% 1/4W	R1901	1-215-449-00	METAL	15K 1% 1/4W
R1819	1-215-437-00	METAL	4.7K 1% 1/4W	R1902	1-215-445-00	METAL	10K 1% 1/4W
R1820	1-215-437-00	METAL	4.7K 1% 1/4W	R1903	1-215-445-00	METAL	10K 1% 1/4W
R1821	1-215-437-00	METAL	4.7K 1% 1/4W	R1904	1-215-445-00	METAL	10K 1% 1/4W
R1822	1-215-445-00	METAL	10K 1% 1/4W	R1905	1-215-445-00	METAL	10K 1% 1/4W
R1823	1-215-445-00	METAL	10K 1% 1/4W	R1906	1-215-429-00	METAL	2.2K 1% 1/4W
R1824	1-215-433-00	METAL	3.3K 1% 1/4W	R1907	1-215-445-00	METAL	10K 1% 1/4W
R1825	1-215-433-00	METAL	3.3K 1% 1/4W	R1908	1-215-445-00	METAL	10K 1% 1/4W
R1826	1-215-433-00	METAL	3.3K 1% 1/4W	R1909	1-215-445-00	METAL	10K 1% 1/4W
R1827	1-215-445-00	METAL	10K 1% 1/4W	R1910	1-215-445-00	METAL	10K 1% 1/4W
R1828	1-215-445-00	METAL	10K 1% 1/4W	R1911	1-215-453-00	METAL	22K 1% 1/4W
R1829	1-249-434-11	CARBON	27K 5% 1/4W	R1916	1-215-423-00	METAL	1.2K 1% 1/4W
R1830	1-249-434-11	CARBON	27K 5% 1/4W	R1920	1-215-453-00	METAL	22K 1% 1/4W
R1831	1-249-405-11	CARBON	100 5% 1/4W	R1921	1-215-445-00	METAL	10K 1% 1/4W
R1832	1-215-471-00	METAL	120K 1% 1/4W	R1922	1-215-445-00	METAL	10K 1% 1/4W
R1833	1-215-471-00	METAL	120K 1% 1/4W	R1924	1-215-429-00	METAL	2.2K 1% 1/4W
R1834	1-215-471-00	METAL	120K 1% 1/4W	R1925	1-215-429-00	METAL	2.2K 1% 1/4W
R1835	1-215-437-00	METAL	4.7K 1% 1/4W	R1926	1-215-429-00	METAL	2.2K 1% 1/4W
R1836	1-215-437-00	METAL	4.7K 1% 1/4W	R1927	1-215-445-00	METAL	10K 1% 1/4W
R1837	1-215-421-00	METAL	1K 1% 1/4W	R1928	1-215-421-00	METAL	1K 1% 1/4W
R1838	1-249-431-11	CARBON	15K 5% 1/4W	R1929	1-215-445-00	METAL	10K 1% 1/4W
R1839	1-249-431-11	CARBON	15K 5% 1/4W	R1930	1-215-397-00	METAL	100 1% 1/4W
R1858	1-215-445-00	METAL	10K 1% 1/4W	R1931	1-215-397-00	METAL	100 1% 1/4W
R1859	1-215-445-00	METAL	10K 1% 1/4W	R1932	1-215-453-00	METAL	22K 1% 1/4W
R1860	1-215-397-00	METAL	100 1% 1/4W				



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1933	1-215-453-00	METAL 22K 1%	1/4W	RV960	1-241-630-11	RES, ADJ, CARBON 10K	
R1934	1-215-429-00	METAL 2.2K 1%	1/4W	RV961	1-241-631-11	RES, ADJ, CARBON 22K	
R1937	1-215-445-00	METAL 10K 1%	1/4W	RV962	1-241-631-11	RES, ADJ, CARBON 22K	
<VARIABLE RESISTOR>				RV963	1-241-631-11	RES, ADJ, CARBON 22K	
RV901	1-241-631-11	RES, ADJ, CARBON 22K		RV964	1-241-631-11	RES, ADJ, CARBON 22K	
RV902	1-241-631-11	RES, ADJ, CARBON 22K		RV965	1-241-631-11	RES, ADJ, CARBON 22K	
RV903	1-241-631-11	RES, ADJ, CARBON 22K		RV966	1-241-631-11	RES, ADJ, CARBON 22K	
RV904	1-241-631-11	RES, ADJ, CARBON 22K		RV967	1-241-631-11	RES, ADJ, CARBON 22K	
RV905	1-241-631-11	RES, ADJ, CARBON 22K		RV968	1-241-631-11	RES, ADJ, CARBON 22K	
RV906	1-241-631-11	RES, ADJ, CARBON 22K		RV969	1-241-631-11	RES, ADJ, CARBON 22K	
RV907	1-241-631-11	RES, ADJ, CARBON 22K		RV970	1-241-631-11	RES, ADJ, CARBON 22K	
RV908	1-241-631-11	RES, ADJ, CARBON 22K		RV971	1-241-631-11	RES, ADJ, CARBON 22K	
RV909	1-241-631-11	RES, ADJ, CARBON 22K		RV972	1-241-631-11	RES, ADJ, CARBON 22K	
RV910	1-241-631-11	RES, ADJ, CARBON 22K		RV973	1-241-631-11	RES, ADJ, CARBON 22K	
RV911	1-241-627-11	RES, ADJ, CARBON 1K		RV974	1-241-631-11	RES, ADJ, CARBON 22K	
RV912	1-241-631-11	RES, ADJ, CARBON 22K		RV975	1-241-631-11	RES, ADJ, CARBON 22K	
RV913	1-238-023-11	RES, ADJ, CARBON 470K		RV976	1-241-631-11	RES, ADJ, CARBON 22K	
RV914	1-241-630-11	RES, ADJ, CARBON 10K		RV977	1-241-631-11	RES, ADJ, CARBON 22K	
RV915	1-241-630-11	RES, ADJ, CARBON 10K		RV978	1-241-631-11	RES, ADJ, CARBON 22K	
RV916	1-241-631-11	RES, ADJ, CARBON 22K		RV979	1-241-631-11	RES, ADJ, CARBON 22K	
RV917	1-241-631-11	RES, ADJ, CARBON 22K		RV980	1-238-019-11	RES, ADJ, CARBON 47K	
RV918	1-241-631-11	RES, ADJ, CARBON 22K		RV981	1-241-631-11	RES, ADJ, CARBON 22K	
RV919	1-241-631-11	RES, ADJ, CARBON 22K		RV982	1-241-631-11	RES, ADJ, CARBON 22K	
RV920	1-241-631-11	RES, ADJ, CARBON 22K		*****			
RV921	1-241-631-11	RES, ADJ, CARBON 22K		*1-644-278-11 DS BOARD			
RV922	1-241-631-11	RES, ADJ, CARBON 22K		*****			
RV923	1-241-631-11	RES, ADJ, CARBON 22K		<CAPACITOR>			
RV924	1-241-631-11	RES, ADJ, CARBON 22K		C1745	1-126-101-11	ELECT 100MF	20% 16V
RV925	1-241-631-11	RES, ADJ, CARBON 22K		C1746	1-126-101-11	ELECT 100MF	20% 16V
RV926	1-241-631-11	RES, ADJ, CARBON 22K		C1747	1-126-101-11	ELECT 100MF	20% 16V
RV927	1-241-631-11	RES, ADJ, CARBON 22K		C1748	1-126-101-11	ELECT 100MF	20% 16V
RV928	1-241-630-11	RES, ADJ, CARBON 10K		C1750	1-124-916-11	ELECT 22MF	20% 25V
RV929	1-241-631-11	RES, ADJ, CARBON 22K		C1751	1-126-101-11	ELECT 100MF	20% 16V
RV930	1-241-630-11	RES, ADJ, CARBON 10K		C1752	1-124-916-11	ELECT 22MF	20% 25V
RV931	1-241-631-11	RES, ADJ, CARBON 22K		C1753	1-124-916-11	ELECT 22MF	20% 25V
RV932	1-241-631-11	RES, ADJ, CARBON 22K		C1851	1-102-074-00	CERAMIC 0.001MF	10% 50V
RV933	1-241-631-11	RES, ADJ, CARBON 22K		<CONNECTOR>			
RV934	1-241-631-11	RES, ADJ, CARBON 22K		DS6	1-691-182-11	CONNECTOR (BOARD TO BOARD) 12P	
RV935	1-241-631-11	RES, ADJ, CARBON 22K		<IC>			
RV936	1-241-631-11	RES, ADJ, CARBON 22K		IC1711	8-759-111-69	IC UPC1037HA	
RV937	1-241-630-11	RES, ADJ, CARBON 10K		IC1712	8-759-602-19	IC M5220L	
RV938	1-241-630-11	RES, ADJ, CARBON 10K		IC1713	8-759-111-69	IC UPC1037HA	
RV939	1-241-630-11	RES, ADJ, CARBON 10K		<RESISTOR>			
RV940	1-241-631-11	RES, ADJ, CARBON 22K		R1840	1-215-445-00	METAL 10K 1%	1/4W
RV941	1-241-631-11	RES, ADJ, CARBON 22K		R1841	1-215-433-00	METAL 3.3K 1%	1/4W
RV942	1-241-631-11	RES, ADJ, CARBON 22K		R1842	1-215-465-00	METAL 68K 1%	1/4W
RV943	1-241-631-11	RES, ADJ, CARBON 22K		R1843	1-215-421-00	METAL 1K 1%	1/4W
RV944	1-241-631-11	RES, ADJ, CARBON 22K		R1844	1-215-455-00	METAL 27K 1%	1/4W
RV945	1-241-631-11	RES, ADJ, CARBON 22K		R1845	1-215-455-00	METAL 27K 1%	1/4W
RV946	1-241-631-11	RES, ADJ, CARBON 22K		R1846	1-215-421-00	METAL 1K 1%	1/4W
RV947	1-241-631-11	RES, ADJ, CARBON 22K		R1850	1-215-461-00	METAL 47K 1%	1/4W
RV948	1-241-631-11	RES, ADJ, CARBON 22K		R1851	1-215-461-00	METAL 47K 1%	1/4W
RV949	1-241-631-11	RES, ADJ, CARBON 22K		R1852	1-215-429-00	METAL 2.2K 1%	1/4W
RV950	1-241-631-11	RES, ADJ, CARBON 22K		R1853	1-215-397-00	METAL 100 1%	1/4W
RV951	1-241-631-11	RES, ADJ, CARBON 22K					
RV952	1-241-631-11	RES, ADJ, CARBON 22K					
RV953	1-241-631-11	RES, ADJ, CARBON 22K					
RV954	1-241-631-11	RES, ADJ, CARBON 22K					
RV955	1-241-631-11	RES, ADJ, CARBON 22K					
RV957	1-241-631-11	RES, ADJ, CARBON 22K					
RV958	1-241-631-11	RES, ADJ, CARBON 22K					
RV959	1-241-631-11	RES, ADJ, CARBON 22K					

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

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

DS H1 H2

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1854	1-215-429-00	METAL	2.2K 1% 1/4W				
R1855	1-215-397-00	METAL	100 1% 1/4W				
R1940	1-215-445-00	METAL	10K 1% 1/4W				
R1941	1-215-433-00	METAL	3.3K 1% 1/4W				
R1942	1-215-421-00	METAL	1K 1% 1/4W				
R1943	1-215-465-00	METAL	68K 1% 1/4W				
R1944	1-215-421-00	METAL	1K 1% 1/4W				
R1945	1-215-455-00	METAL	27K 1% 1/4W				
R1946	1-215-455-00	METAL	27K 1% 1/4W				
<VARIABLE RESISTOR>							
RV983	1-241-630-11	RES, ADJ, CARBON 10K					
RV984	1-241-630-11	RES, ADJ, CARBON 10K					

	*1-643-591-11	H1 BOARD	*****				
	4-033-777-01	HOLDER, LED					
	*4-374-987-01	GUIDE, LIGHT					
	4-381-686-01	BRACKET (B), LIGHT GUIDE					
<CAPACITOR>							
C1601	1-124-907-11	ELECT	10MF 20% 50V				
C1602	1-124-907-11	ELECT	10MF 20% 50V				
C1603	1-124-907-11	ELECT	10MF 20% 50V				
C1604	1-124-261-00	ELECT	10MF 20% 50V				
<DIODE>							
D1601	8-719-812-41	DIODE TLR124					
D1602	8-719-812-41	DIODE TLR124					
<CONNECTOR>							
H11	*1-564-526-11	PLUG, CONNECTOR 11P					
H15	*1-564-517-41	PLUG, CONNECTOR 2P					
<IC>							
IC1601	8-741-148-33	IC SBX1483-59					
<RESISTOR>							
R1601	1-249-430-11	CARBON	12K 5% 1/4W				
R1602	1-249-425-11	CARBON	4.7K 5% 1/4W				
R1603	1-249-421-11	CARBON	2.2K 5% 1/4W				
R1604	1-249-419-11	CARBON	1.5K 5% 1/4W				
R1606	1-249-405-11	CARBON	100 5% 1/4W				
R1607	1-249-405-11	CARBON	100 5% 1/4W				
R1608	1-249-411-11	CARBON	330 5% 1/4W				
R1609	1-249-411-11	CARBON	330 5% 1/4W				
<SWITCH>							
S1601	1-554-303-21	SWITCH, TACTIL					
S1602	1-554-303-21	SWITCH, TACTIL					
S1603	1-554-303-21	SWITCH, TACTIL					
S1604	1-554-303-21	SWITCH, TACTIL					
S1605	1-554-303-21	SWITCH, TACTIL					

S1606A	1-571-731-21	SWITCH, TACTIL (POWER)					

	*1-643-592-11	H2 BOARD	*****				
<CAPACITOR>							
C1651	1-124-477-11	ELECT	47MF 20% 16V				
C1655	1-124-927-11	ELECT	4.7MF 20% 50V				
<DIODE>							
D1651	8-719-908-03	DIODE GP08D					
D1652	8-719-908-03	DIODE GP08D					
D1653	8-719-108-12	DIODE RD9.1E-W					
D1654	8-719-108-12	DIODE RD9.1E-W					
D1655	8-719-108-12	DIODE RD9.1E-W					
D1659	8-719-911-19	DIODE ISS119					
D1660	8-719-110-88	DIODE RD39ES-B2					
D1661	8-719-110-88	DIODE RD39ES-B2					
D1662	8-719-110-88	DIODE RD39ES-B2					
D1663	8-719-110-88	DIODE RD39ES-B2					
<CONNECTOR>							
H22	*1-564-519-41	PLUG, CONNECTOR 4P					
H25	*1-564-517-41	PLUG, CONNECTOR 2P					
H26	*1-564-519-11	PLUG, CONNECTOR 4P					
H28	*1-564-518-11	PLUG, CONNECTOR 3P					
H211	*1-564-517-11	PLUG, CONNECTOR 2P					
H216	*1-564-525-11	PLUG, CONNECTOR 10P					
H225	*1-564-518-11	PLUG, CONNECTOR 3P					
<JACK>							
J1651	1-695-817-11	JACK BLOCK, PIN 3P					
<TRANSISTOR>							
Q1651	8-729-119-78	TRANSISTOR 2SC2785-HFE					
Q1652	8-729-119-78	TRANSISTOR 2SC2785-HFE					
Q1653	8-729-119-78	TRANSISTOR 2SC2785-HFE					
<RESISTOR>							
R1651	1-249-419-11	CARBON	1.5K 5% 1/4W				
R1652	1-249-421-11	CARBON	2.2K 5% 1/4W				
R1653	1-249-425-11	CARBON	4.7K 5% 1/4W				
R1654	1-249-430-11	CARBON	12K 5% 1/4W				
R1655	1-249-417-11	CARBON	1K 5% 1/4W				
R1656	1-249-417-11	CARBON	1K 5% 1/4W				
R1657	1-249-436-11	CARBON	39K 5% 1/4W				
R1658	1-249-437-11	CARBON	47K 5% 1/4W				
R1659	1-249-437-11	CARBON	47K 5% 1/4W				
<RELAY>							
RY1651	1-515-586-11	RELAY (DS-2)					
RY1652	1-515-586-11	RELAY (DS-2)					
<SWITCH>							
S1651	1-554-303-21	SWITCH, TACTIL					
S1652	1-554-303-21	SWITCH, TACTIL					
S1653	1-554-303-21	SWITCH, TACTIL					
S1654	1-554-303-21	SWITCH, TACTIL					

H2 ZR ZG ZB N

Les composants identifiés par
une trame et une marque Δ
sont critiques pour la sécurité.
Ne les remplacer que par une
pièce portant le numéro spécifique.

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

REF. NO.	PART NO.	DESCRIPTION	REMARK
S1655	1-554-303-21	SWITCH, TACTIL	

*A-1390-340-A		ZR BOARD, COMPLETE	*****
<CAPACITOR>			
C1901	1-162-115-00	CERAMIC 330PF	10% 2KV
C1902	1-162-115-00	CERAMIC 330PF	10% 2KV
<RESISTOR>			
R1901	1-202-818-00	SOLID 1K	20% 1/2W
R1902	1-202-818-00	SOLID 1K	20% 1/2W
R1903	1-249-414-11	CARBON 560	5% 1/4W
R1904	1-249-414-11	CARBON 560	5% 1/4W
<CONNECTOR>			
ZR1	*1-564-522-11	PLUG, CONNECTOR 7P	
ZR2	*1-564-518-11	PLUG, CONNECTOR 3P	
ZR18	*1-691-292-11	PIN, CONNECTOR (PC BOARD) 3P	

*A-1390-346-A		ZG BOARD, COMPLETE	*****
<CAPACITOR>			
C1911	1-162-115-00	CERAMIC 330PF	10% 2KV
C1912	1-162-115-00	CERAMIC 330PF	10% 2KV
<RESISTOR>			
R1911	1-202-818-00	SOLID 1K	20% 1/2W
R1912	1-202-818-00	SOLID 1K	20% 1/2W
R1913	1-249-414-11	CARBON 560	5% 1/4W
R1914	1-249-414-11	CARBON 560	5% 1/4W
<CONNECTOR>			
ZG2	*1-564-523-11	PLUG, CONNECTOR 8P	
ZG19	*1-691-292-11	PIN, CONNECTOR (PC BOARD) 3P	

*A-1390-347-A		ZB BOARD, COMPLETE	*****
<CAPACITOR>			
C1921	1-162-115-00	CERAMIC 330PF	10% 2KV
C1922	1-162-115-00	CERAMIC 330PF	10% 2KV
<RESISTOR>			
R1921	1-202-818-00	SOLID 1K	20% 1/2W
R1922	1-202-818-00	SOLID 1K	20% 1/2W
R1923	1-249-414-11	CARBON 560	5% 1/4W
R1924	1-249-414-11	CARBON 560	5% 1/4W
<CONNECTOR>			
ZB3	*1-564-524-11	PLUG, CONNECTOR 9P	

REF. NO.	PART NO.	DESCRIPTION	REMARK
ZB20	*1-691-292-11	PIN, CONNECTOR (PC BOARD) 3P	

*A-1390-351-A		N BOARD, COMPLETE	*****
4-039-042-01		SPACER, INSULATING	
4-382-854-11		SCREW (M3X10), P, SW (+)	
4-383-023-01		SPACER, MICA	
<CAPACITOR>			
C801	1-125-489-00	ELECT(BLOCK) 560MF	20% 200V
C802	1-123-024-21	ELECT 33MF	160V
C803	1-136-729-11	FILM 1.5MF	5% 400V
C804	1-106-383-00	MYLAR 0.047MF	200V
C805	1-102-030-00	CERAMIC 330PF	10% 500V
C806	1-130-495-00	MYLAR 0.1MF	5% 50V
C807	1-123-875-11	ELECT 10MF	20% 50V
C808	1-126-183-11	ELECT 1000MF	20% 16V
C809	1-124-903-11	ELECT 1MF	20% 50V
C810	1-124-903-11	ELECT 1MF	20% 50V
C811	1-124-902-00	ELECT 0.47MF	20% 50V
C812	1-102-973-00	CERAMIC 100PF	5% 50V
C813	1-102-244-00	CERAMIC 220PF	10% 500V
C814	1-106-391-12	MYLAR 0.1MF	10% 200V
C815	1-106-367-00	MYLAR 0.01MF	10% 200V
C816	1-124-907-11	ELECT 10MF	20% 50V
C817	1-124-119-00	ELECT 330MF	20% 16V
C818	1-102-824-00	CERAMIC 470PF	5% 50V
C819	1-124-907-11	ELECT 10MF	20% 50V
C820	1-124-907-11	ELECT 10MF	20% 50V
C821	1-124-907-11	ELECT 10MF	20% 50V
C822	1-124-034-51	ELECT 33MF	20% 16V
C823	1-124-907-11	ELECT 10MF	20% 50V
C824	1-124-034-51	ELECT 33MF	20% 16V
C825	1-124-034-51	ELECT 33MF	20% 16V
C826	1-124-907-11	ELECT 10MF	20% 50V
C827	1-124-907-11	ELECT 10MF	20% 50V
C828	1-124-907-11	ELECT 10MF	20% 50V
C829	1-124-034-51	ELECT 33MF	20% 16V
C830	1-124-907-11	ELECT 10MF	20% 50V
C831	1-106-220-00	MYLAR 0.1MF	10% 100V
C832	1-124-907-11	ELECT 10MF	20% 50V
C833	1-124-916-11	ELECT 22MF	20% 50V
C834	1-102-121-00	CERAMIC 0.0022MF	10% 50V
C835	1-124-927-11	ELECT 4.7MF	20% 50V
C836	1-130-475-00	MYLAR 0.0022MF	5% 50V
C837	1-136-169-00	FILM 0.22MF	5% 50V
C838	1-130-475-00	MYLAR 0.0022MF	5% 50V
C839	1-102-106-00	CERAMIC 100PF	10% 50V
C840	Δ 1-136-807-11	FILM 0.018MF	3% 1.6KV
C841	1-136-729-11	FILM 1.5MF	5% 400V
C842	1-130-471-00	MYLAR 0.001MF	5% 50V
C844	1-106-391-12	MYLAR 0.1MF	10% 200V
C850	1-136-169-00	FILM 0.22MF	5% 50V
C851	1-124-907-11	ELECT 10MF	20% 50V
C852	1-124-907-11	ELECT 10MF	20% 50V
C853	1-106-220-00	MYLAR 0.1MF	10% 100V
C854	1-126-329-11	ELECT 470MF	20% 50V
C855	1-124-514-11	ELECT 100MF	20% 50V
C856	1-162-114-00	CERAMIC 0.0047MF	2KV
C858	1-124-119-00	ELECT 330MF	20% 16V
C888	1-124-903-11	ELECT 1MF	20% 50V

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

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

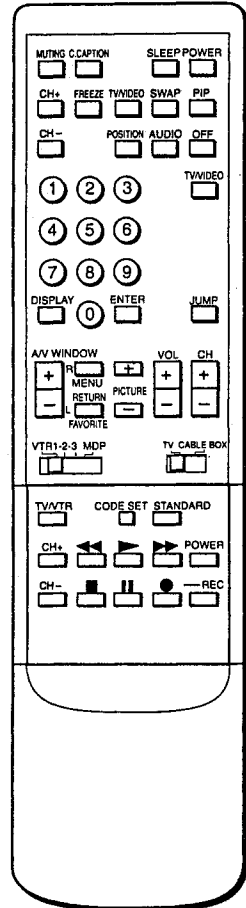


REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<DIODE>				<TRANSISTOR>			
D801	8-719-928-08	DIODE ERD28-08S		Q801 Δ 8-729-201-61	TRANSISTOR 2SC2555-1		
D802	8-719-300-80	DIODE RU-1C		Q802	8-729-119-80	TRANSISTOR 2SC2688-LK	
D803	8-719-109-85	DIODE RD5.1ES-B2		Q803	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D804	8-719-911-19	DIODE ISS119		Q804	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D805	8-719-911-19	DIODE ISS119		Q805	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D806	8-719-109-85	DIODE RD5.1ES-B2		Q806	8-729-119-80	TRANSISTOR 2SC2688-LK	
D807	8-719-109-85	DIODE RD5.1ES-B2		Q807	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D808	8-719-911-19	DIODE ISS119		Q808	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D809	8-719-911-19	DIODE ISS119		Q809	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D810	8-719-911-19	DIODE ISS119		Q811 Δ 8-729-805-07	TRANSISTOR 2SD1887-CA		
D811	8-719-109-85	DIODE RD5.1ES-B2		Q812	8-729-019-88	TRANSISTOR 2SC3675-CB	
D812	8-719-911-19	DIODE ISS119		Q820	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D813	8-719-911-19	DIODE ISS119		Q851	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D814	8-719-911-19	DIODE ISS119		Q852	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D815	8-719-110-36	DIODE RD13ES-B2		Q853	8-729-820-98	TRANSISTOR 2SC4256CB	
D817	8-719-945-80	DIODE ERC06-15S		<RESISTOR>			
D818	8-719-911-19	DIODE ISS119		R801	1-216-378-11	METAL OXIDE 5.6 5% 2W	F
D820	8-719-911-19	DIODE ISS119		R802	1-215-926-00	METAL OXIDE 33K 5% 3W	F
D850	8-719-109-71	DIODE RD3.9ES-B1		R803	1-215-926-00	METAL OXIDE 33K 5% 3W	F
D851 Δ 8-719-903-09	DIODE V30N			R804	1-249-429-11	CARBON 10K 5% 1/4W	
D852	8-719-911-19	DIODE ISS119		R805	1-249-423-11	CARBON 3.3K 5% 1/4W	
D853 Δ 8-719-903-09	DIODE V30N			R806	1-249-425-11	CARBON 4.7K 5% 1/4W	
D891	8-719-110-49	DIODE RD18ES-B2		R807	1-249-441-11	CARBON 100K 5% 1/4W	
D892	8-719-110-49	DIODE RD18ES-B2		R808	1-249-417-11	CARBON 1K 5% 1/4W	
<IC>				R809	1-249-417-11	CARBON 1K 5% 1/4W	
IC801	8-759-231-58	IC TA7812S		R810	1-249-441-11	CARBON 100K 5% 1/4W	
IC802	8-759-103-93	IC UPC393C		R811	1-249-421-11	CARBON 2.2K 5% 1/4W	
IC803	8-759-990-82	IC TL082CP		R812	1-249-420-11	CARBON 1.8K 5% 1/4W	F
IC804	8-759-103-93	IC UPC393C		R813	1-215-921-11	METAL OXIDE 4.7K 5% 3W	F
IC805	8-759-100-75	IC UPC1394C		R814	1-249-409-11	CARBON 220 5% 1/4W	
<COIL>				R815	1-249-415-11	CARBON 680 5% 1/4W	
L801	1-459-862-11	COIL, CHOKO 90UH		R816	1-214-777-00	METAL 100K 1% 1/4W	
L802	1-424-603-11	COIL, CHOKO 1.05MMH		R817	1-215-471-00	METAL 120K 1% 1/4W	
L803	1-459-313-00	COIL WITH CORE (HWC)		R818	1-215-471-00	METAL 120K 1% 1/4W	
L804	1-410-482-31	INDUCTOR 100UH		R819	1-215-450-00	METAL 16K 1% 1/4W	
L805 Δ 1-424-603-11	COIL, CHOKO 1.05MMH			R820	1-215-451-00	METAL 18K 1% 1/4W	
<CONNECTOR>				R821	1-249-423-11	CARBON 3.3K 5% 1/4W	
N1	1-506-348-99	PIN, CONNECTOR 3P		R822	1-249-433-11	CARBON 22K 5% 1/4W	
N2	*1-564-508-11	PLUG, CONNECTOR 5P		R823	1-249-429-11	CARBON 10K 5% 1/4W	
N3	*1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P		R824	1-215-469-00	METAL 100K 1% 1/4W	
N4	*1-564-507-11	PLUG, CONNECTOR 4P		R825	1-215-453-00	METAL 22K 1% 1/4W	
N5	*1-564-508-11	PLUG, CONNECTOR 5P		R826	1-214-962-00	METAL 820K 1% 1/4W	
N6	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P		R827	1-214-764-00	METAL 30K 1% 1/4W	
N7	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P		R828	1-215-455-00	METAL 27K 1% 1/4W	
N8	*1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P		R829	1-215-455-00	METAL 27K 1% 1/4W	
N9	1-506-348-99	PIN, CONNECTOR 3P		R830	1-215-928-11	METAL OXIDE 68K 5% 3W	F
N10	*1-564-511-41	PLUG, CONNECTOR 8P		R831	1-215-928-11	METAL OXIDE 68K 5% 3W	F
N20	*1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P		R832	1-249-417-11	CARBON 1K 5% 1/4W	
N21	*1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P		R833	1-249-419-11	CARBON 1.5K 5% 1/4W	
N30	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P		R834	1-249-419-11	CARBON 1.5K 5% 1/4W	
N851	*1-506-371-00	PIN, CONNECTOR 2P		R835	1-215-429-00	METAL 2.2K 1% 1/4W	
N853	*1-506-371-00	PIN, CONNECTOR 2P		R836	1-215-435-00	METAL 3.9K 1% 1/4W	
<NEON LAMP>				R837	1-249-433-11	CARBON 22K 5% 1/4W	
NL801	1-519-108-99	LAMP, NEON		R838	1-249-435-11	CARBON 33K 5% 1/4W	
				R839	1-249-438-11	CARBON 56K 5% 1/4W	
				R840	1-249-434-11	CARBON 27K 5% 1/4W	
				R841	1-249-429-11	CARBON 10K 5% 1/4W	
				R842	1-249-435-11	CARBON 33K 5% 1/4W	
				R843	1-249-423-11	CARBON 3.3K 5% 1/4W	

Selecting a Picture and Sound Mode

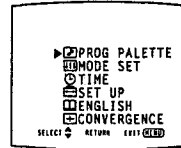
This projection TV features four modes (STANDARD, MOVIE, SPORTS, NEWS) that offer different picture and sound qualities. Choose the one that best suits the type of program that you want to watch.

Example: Select MOVIE mode for picture and sound that gives you the sense of being in a movie theater.

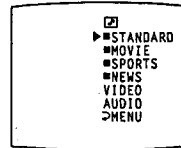


(with video control cover open)

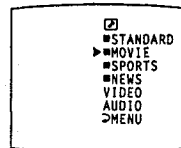
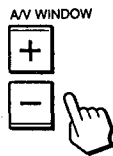
- 1 Press MENU.
The main menu appears, and the cursor points to "PROG PALETTE."



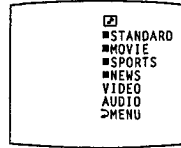
- 2 Press RETURN.
The program palette menu appears.



- 3 Press AV WINDOW +/- until the cursor points to "MOVIE."



- 4 Press RETURN.
The "MOVIE" display turns green, indicating that MOVIE mode is selected.



To select a different mode
Repeat steps 3 - 4.

Selecting standard mode (without using the menus)

Follow these instructions to select standard mode without using the on-screen menus.

Press STANDARD.



When you select STANDARD mode

You receive standard picture and sound quality. Any video or audio adjustments you made ("Adjusting the Projection TV," pp. 44 - 52) are cancelled and the original factory settings are restored.

When you select MOVIE mode

You receive a finely detailed picture, and a theatrical audio effect. To further adjust picture and sound qualities, follow the instructions on pp. 44 - 52.

When you select SPORTS mode

You receive a vivid, bright picture, and sound with a sports stadium effect. To further adjust picture and sound qualities, follow the instructions on pp. 44 - 52.

When you select NEWS mode

Picture noise is reduced, and you receive clear voice reproduction. To further adjust picture and sound qualities, follow the instructions on pp. 44 - 52.

To return to the previous menu
Press AV WINDOW +/- until the cursor points to "> MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen.
Press MENU.

• The components identified by in this manual 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.

Les composants identifiés par une trame et une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifique.

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



REF. NO.	PART NO.	DESCRIPTION	REMARK
R844	1-249-433-11	CARBON 22K 5%	1/4W
R845	1-249-435-11	CARBON 33K 5%	1/4W
R846	1-249-429-11	CARBON 10K 5%	1/4W
R847	1-214-761-00	METAL 22K 1%	1/4W
R848	1-215-429-00	METAL 2.2K 1%	1/4W
R849	1-215-421-00	METAL 1K 1%	1/4W
R850	1-215-429-00	METAL 2.2K 1%	1/4W
R851	1-215-404-00	METAL 200 1%	1/4W
<input checked="" type="checkbox"/> R852 <input checked="" type="checkbox"/>	1-215-469-00	METAL 100K 1%	1/4W
R853	1-215-469-00	METAL 100K 1%	1/4W
R854	1-249-430-11	CARBON 12K 5%	1/4W
R855	1-215-469-00	METAL 100K 1%	1/4W
R856	1-249-430-11	CARBON 12K 5%	1/4W
R857	1-249-433-11	CARBON 22K 5%	1/4W
R858	1-249-413-11	CARBON 470 5%	1/4W
R859	1-249-435-11	CARBON 33K 5%	1/4W
R860	1-249-441-11	CARBON 100K 5%	1/4W
R861	1-249-421-11	CARBON 2.2K 5%	1/4W
R862	1-249-434-11	CARBON 27K 5%	1/4W
R863	1-249-431-11	CARBON 15K 5%	1/4W
R864	1-249-423-11	CARBON 3.3K 5%	1/4W
R865	1-249-440-11	CARBON 82K 5%	1/4W
R866	1-249-436-11	CARBON 39K 5%	1/4W
R867	1-249-437-11	CARBON 47K 5%	1/4W
R868	1-249-428-11	CARBON 8.2K 5%	1/4W
R869	1-249-429-11	CARBON 10K 5%	1/4W
R870	1-249-417-11	CARBON 1K 5%	1/4W
R871	1-249-440-11	CARBON 82K 5%	1/4W
R872	1-249-423-11	CARBON 3.3K 5%	1/4W
R873	1-249-441-11	CARBON 100K 5%	1/4W
R874	1-249-435-11	CARBON 33K 5%	1/4W
R875	1-249-421-11	CARBON 2.2K 5%	1/4W
R876	1-215-426-00	METAL 1.6K 1%	1/4W
R877	1-249-435-11	CARBON 33K 5%	1/4W
R878	1-249-441-11	CARBON 100K 5%	1/4W
R879	1-216-489-11	METAL OXIDE 27K 5%	3W F
R880	1-249-429-11	CARBON 10K 5%	1/4W
R881	1-214-761-00	METAL 22K 1%	1/4W
R882	1-249-433-11	CARBON 22K 5%	1/4W
R883	1-249-417-11	CARBON 1K 5%	1/4W
R884	1-215-894-11	METAL OXIDE 2.2K 5%	2W F
R885	1-249-438-11	CARBON 56K 5%	1/4W
R886	1-249-414-11	CARBON 560 5%	1/4W
R887	1-215-397-00	METAL 100 1%	1/4W
R888	1-249-410-11	CARBON 270 5%	1/4W
R889	1-249-417-11	CARBON 1K 5%	1/4W
R890	1-249-417-11	CARBON 1K 5%	1/4W
R891	1-216-489-11	METAL OXIDE 27K 5%	3W F
R892	1-249-417-11	CARBON 1K 5%	1/4W F
R893	1-215-453-00	METAL 22K 1%	1/4W
R894	1-249-401-11	CARBON 47 5%	1/4W
R895	1-202-731-00	SOLID 10W 20%	1/2W
R896	1-260-111-11	CARBON 10K 5%	1/2W
R897	1-247-881-00	CARBON 120K 5%	1/4W
R898	1-202-730-00	SOLID 8.2W 20%	1/2W
R899	1-249-429-11	CARBON 10K 5%	1/4W
R903	1-247-735-11	SOLID 47 20%	1/2W
R904	1-215-928-11	METAL OXIDE 68K 5%	3W F
R905	1-215-911-11	METAL OXIDE 100 5%	3W F
<SPARK GAP>			
SG801	1-519-422-11	GAP, SPARK	

REF. NO.	PART NO.	DESCRIPTION	REMARK
<TRANSFORMER>			
T801	<input checked="" type="checkbox"/> 1-437-078-11	TRANSFORMER, HORIZONTAL DRIVE	
T802	1-437-090-00	HDT	
T803	<input checked="" type="checkbox"/> 1-453-121-11	TRANSFORMER ASSY, FLYBACK (NX-2630B4)	

*A-1394-421-A		S BOARD, COMPLETE	*****
*1-565-514-11		SOCKET, CONNECTOR 2P	
<CAPACITOR>			
C3403	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C3408	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C3409	1-124-477-11	ELECT 47MF	20% 16V
C3411	1-124-034-51	ELECT 33MF	20% 16V
C3442	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C3446	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C3447	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C3448	1-163-023-00	CERAMIC CHIP 0.015MF	10% 50V
C3449	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V
C3450	1-163-109-00	CERAMIC CHIP 47PF	5% 50V
C3451	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3452	1-163-989-11	CERAMIC CHIP 0.033MF	10% 25V
C3453	1-124-477-11	ELECT 47MF	20% 16V
C3454	1-126-162-11	ELECT 3.3MF	20% 50V
C3455	1-126-163-11	ELECT 4.7MF	20% 16V
C3456	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C3457	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C3459	1-124-477-11	ELECT 47MF	20% 16V
C3460	1-163-099-00	CERAMIC CHIP 18PF	5% 50V
C3461	1-163-099-00	CERAMIC CHIP 18PF	5% 50V
C3507	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C3508	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C3509	1-163-139-00	CERAMIC CHIP 820PF	5% 50V
C3515	1-163-121-00	CERAMIC CHIP 150PF	5% 50V
C3540	1-126-157-11	ELECT 10MF	20% 16V
<DIODE>			
D3444	8-719-404-46	DIODE MA110	
<IC>			
IC3401	8-759-403-44	IC MN1280-S	
IC3402	8-759-070-42	IC M37201M6-A18FP	
IC3441	8-759-982-21	IC RC78L05A	
IC3442	8-759-084-12	IC LA7945	
IC3443	8-759-158-03	IC LC7458A-02	
IC3444	8-759-403-44	IC MN1280-S	
<COIL>			
L3401	1-408-421-00	INDUCTOR 100UH	
L3461	1-408-409-00	INDUCTOR 10UH	
L3462	1-408-421-00	INDUCTOR 100UH	
<TRANSISTOR>			
Q3441	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q3444	8-729-903-10	TRANSISTOR FMW1	



REF. NO.	PART NO.	DESCRIPTION	REMARK
<RESISTOR>			
R3401	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R3402	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R3403	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R3404	1-216-033-00	METAL GLAZE 220 5%	1/10W
R3405	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R3406	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R3407	1-216-033-00	METAL GLAZE 220 5%	1/10W
R3408	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R3409	1-216-033-00	METAL GLAZE 220 5%	1/10W
R3441	1-216-025-00	METAL GLAZE 100 5%	1/10W
R3442	1-216-041-00	METAL GLAZE 470 5%	1/10W
R3443	1-216-041-00	METAL GLAZE 470 5%	1/10W
R3444	1-216-077-00	METAL GLAZE 15K 5%	1/10W
R3445	1-216-689-11	METAL GLAZE 39K 5%	1/10W
R3446	1-216-085-00	METAL GLAZE 33K 5%	1/10W
R3449	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R3450	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R3451	1-216-093-00	METAL GLAZE 68K 5%	1/10W
R3452	1-216-079-00	METAL GLAZE 18K 5%	1/10W
R3453	1-216-679-11	METAL CHIP 15K 0.50%	1/10W
R3454	1-216-037-00	METAL GLAZE 330 5%	1/10W
R3455	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R3456	1-216-077-00	METAL GLAZE 15K 5%	1/10W
R3463	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R3464	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R3465	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R3472	1-216-091-00	METAL GLAZE 56K 5%	1/10W
R3473	1-216-025-00	METAL GLAZE 100 5%	1/10W
R3474	1-216-295-00	METAL GLAZE 0 5%	1/10W
R3504	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R3509	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R3511	1-216-025-00	METAL GLAZE 100 5%	1/10W
R3512	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W
R3513	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W
R3514	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W
R3519	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R3520	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R3521	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R3525	1-216-295-00	METAL GLAZE 0 5%	1/10W
R3526	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R3528	1-216-295-00	METAL GLAZE 0 5%	1/10W
R3529	1-216-295-00	METAL GLAZE 0 5%	1/10W
R3530	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R3531	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R3532	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R3535	1-216-033-00	METAL GLAZE 220 5%	1/10W
R3537	1-216-295-00	METAL GLAZE 0 5%	1/10W
R3540	1-216-073-00	METAL GLAZE 10K 5%	1/10W

<CONNECTOR>			
S42	*1-568-378-21	PIN, CONNECTOR 3P	
S43	*1-564-508-11	PLUG, CONNECTOR 5P	
S45	*1-564-511-71	PLUG, CONNECTOR 8P	
S46	*1-564-506-11	PLUG, CONNECTOR 3P	
S47	*1-564-506-11	PLUG, CONNECTOR 3P	

<CRYSTAL>			
X3401	1-577-082-11	VIBRATOR, CERAMIC	
X3441	1-577-364-11	VIBRATOR, CERAMIC	

REF. NO.	PART NO.	DESCRIPTION	REMARK

*A-1394-422-A U BOARD, COMPLETE			

<CAPACITOR>			
C1004	1-102-125-00	CERAMIC 0.0047MF	10% 50V
C1005	1-126-301-11	ELECT 1MF	20% 50V
C1006	1-164-096-11	CERAMIC 0.01MF	50V
C1007	1-124-598-11	ELECT 22MF	20% 25V
C1008	1-124-598-11	ELECT 22MF	20% 25V
C1010	1-124-465-00	ELECT 0.47MF	20% 50V
C1011	1-124-465-00	ELECT 0.47MF	20% 50V
C1012	1-124-465-00	ELECT 0.47MF	20% 50V
C1013	1-102-125-00	CERAMIC 0.0047MF	10% 50V
C1014	1-126-163-11	ELECT 4.7MF	20% 50V
C1016	1-126-163-11	ELECT 4.7MF	20% 50V
C1018	1-126-301-11	ELECT 1MF	20% 50V
C1020	1-124-242-00	ELECT 33MF	20% 25V
C1021	1-124-465-00	ELECT 0.47MF	20% 50V
C1022	1-124-242-00	ELECT 33MF	20% 25V
C1026	1-102-949-00	CERAMIC 12PF	5% 50V
C1027	1-102-949-00	CERAMIC 12PF	5% 50V
C1028	1-124-242-00	ELECT 33MF	20% 25V
C1029	1-124-282-00	ELECT 22MF	20% 16V
C1030	1-124-478-11	ELECT 100MF	20% 25V
C1031	1-102-963-00	CERAMIC 33PF	5% 50V
C1033	1-124-598-11	ELECT 22MF	20% 25V
C1034	1-124-282-00	ELECT 22MF	20% 16V
C1036	1-124-282-00	ELECT 22MF	20% 16V
C1037	1-124-282-00	ELECT 22MF	20% 16V
C1039	1-124-478-11	ELECT 100MF	20% 25V
C1047	1-124-465-00	ELECT 0.47MF	20% 50V
C1048	1-126-301-11	ELECT 1MF	20% 50V
C1049	1-124-598-11	ELECT 22MF	20% 25V
C1051	1-124-465-00	ELECT 0.47MF	20% 50V
C1055	1-124-589-11	ELECT 47MF	20% 16V
C1056	1-124-499-11	ELECT 1MF	20% 50V
C1057	1-124-768-11	ELECT 4.7MF	20% 50V
C1059	1-124-499-11	ELECT 1MF	20% 50V
C1060	1-124-499-11	ELECT 1MF	20% 50V
C1061	1-124-499-11	ELECT 1MF	20% 50V
C1062	1-102-129-00	CERAMIC 0.01MF	10% 50V
C1063	1-124-768-11	ELECT 4.7MF	20% 50V
C1066	1-126-101-11	ELECT 100MF	20% 16V
<BLOCK>			
CM1002	1-466-162-31	BLOCK, COM FILTER (CFB-4)	
<DIODE>			
D1005	8-719-110-36	DIODE RD13ES-B2	
D1009	8-719-110-36	DIODE RD13ES-B2	
D1010	8-719-110-36	DIODE RD13ES-B2	
D1011	8-719-110-36	DIODE RD13ES-B2	
D1012	8-719-110-36	DIODE RD13ES-B2	
D1013	8-719-110-36	DIODE RD13ES-B2	
D1017	8-719-110-36	DIODE RD13ES-B2	
D1018	8-719-110-36	DIODE RD13ES-B2	
D1019	8-719-110-36	DIODE RD13ES-B2	
D1020	8-719-109-66	DIODE RD3.3ES-B2	
D1021	8-719-109-66	DIODE RD3.3ES-B2	



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
D1022	8-719-109-66	DIODE RD3.3ES-B2		R1059	1-249-405-11	CARBON	100 5% 1/4W
	<IC>			R1061	1-249-409-11	CARBON	220 5% 1/4W
IC1002	8-752-056-50	IC CXA1545S		R1062	1-249-441-11	CARBON	100K 5% 1/4W
IC1011	8-759-145-57	IC UPC4557C		R1063	1-249-409-11	CARBON	220 5% 1/4W
	<COIL>			R1066	1-215-437-00	METAL	4.7K 1% 1/4W
L1001	1-408-422-00	INDUCTOR 120UH		R1067	1-215-437-00	METAL	4.7K 1% 1/4W
L1002	1-408-422-00	INDUCTOR 120UH		R1068	1-215-437-00	METAL	4.7K 1% 1/4W
	<TRANSISTOR>			R1069	1-215-437-00	METAL	4.7K 1% 1/4W
Q1009	8-729-119-78	TRANSISTOR 2SC2785-HFE		R1070	1-249-411-11	CARBON	330 5% 1/4W
Q1010	8-729-119-78	TRANSISTOR 2SC2785-HFE		R1071	1-249-431-11	CARBON	15K 5% 1/4W
Q1016	8-729-119-76	TRANSISTOR 2SA1175-HFE		R1073	1-249-431-11	CARBON	15K 5% 1/4W
Q1017	8-729-119-76	TRANSISTOR 2SA1175-HFE		R1077	1-249-418-11	CARBON	1.2K 5% 1/4W
Q1018	8-729-141-26	TRANSISTOR 2SC3622A-LK		R1078	1-249-418-11	CARBON	1.2K 5% 1/4W
Q1019	8-729-119-76	TRANSISTOR 2SA1175-HFE		R1079	1-249-405-11	CARBON	100 5% 1/4W
Q1020	8-729-119-76	TRANSISTOR 2SA1175-HFE		R1080	1-215-423-00	METAL	1.2K 1% 1/4W
Q1021	8-729-119-76	TRANSISTOR 2SA1175-HFE		R1081	1-215-421-00	METAL	1K 1% 1/4W
Q1022	8-729-141-26	TRANSISTOR 2SC3622A-LK		R1089	1-249-405-11	CARBON	100 5% 1/4W
Q1023	8-729-119-78	TRANSISTOR 2SC2785-HFE		R1094	1-249-405-11	CARBON	100 5% 1/4W
Q1029	8-729-119-76	TRANSISTOR 2SA1175-HFE		R1096	1-249-405-11	CARBON	100 5% 1/4W
Q1030	8-729-119-78	TRANSISTOR 2SC2785-HFE		R1099	1-249-413-11	CARBON	470 5% 1/4W
Q1031	8-729-119-78	TRANSISTOR 2SC2785-HFE		R1110	1-249-405-11	CARBON	100 5% 1/4W
Q1032	8-729-119-76	TRANSISTOR 2SA1175-HFE		R1116	1-249-441-11	CARBON	100K 5% 1/4W
Q1033	8-729-119-76	TRANSISTOR 2SA1175-HFE		R1118	1-249-413-11	CARBON	470 5% 1/4W
Q1034	8-729-119-76	TRANSISTOR 2SA1175-HFE		R1121	1-249-441-11	CARBON	100K 5% 1/4W
	<RESISTOR>			R1133	1-249-405-11	CARBON	100 5% 1/4W
R1011	1-249-435-11	CARBON 33K 5%	1/4W	R1134	1-249-405-11	CARBON	100 5% 1/4W
R1012	1-249-434-11	CARBON 27K 5%	1/4W	R1137	1-249-411-11	CARBON	330 5% 1/4W
R1013	1-249-417-11	CARBON 1K 5%	1/4W	R1138	1-249-415-11	CARBON	680 5% 1/4W
R1014	1-249-441-11	CARBON 100K 5%	1/4W	R1139	1-249-413-11	CARBON	470 5% 1/4W
R1015	1-249-425-11	CARBON 4.7K 5%	1/4W	R1140	1-249-413-11	CARBON	470 5% 1/4W
R1016	1-249-441-11	CARBON 100K 5%	1/4W	R1141	1-249-413-11	CARBON	470 5% 1/4W
R1017	1-249-405-11	CARBON 100 5%	1/4W	R1142	1-249-415-11	CARBON	680 5% 1/4W
R1018	1-249-427-11	CARBON 6.8K 5%	1/4W	R1147	1-249-405-11	CARBON	100 5% 1/4W
R1019	1-249-427-11	CARBON 6.8K 5%	1/4W	R1148	1-249-405-11	CARBON	100 5% 1/4W
R1023	1-249-405-11	CARBON 100 5%	1/4W	R1149	1-249-417-11	CARBON	1K 5% 1/4W
R1026	1-249-425-11	CARBON 4.7K 5%	1/4W	R1150	1-249-405-11	CARBON	100 5% 1/4W
R1028	1-249-434-11	CARBON 27K 5%	1/4W	R1151	1-249-405-11	CARBON	100 5% 1/4W
R1029	1-249-435-11	CARBON 33K 5%	1/4W	R1152	1-249-417-11	CARBON	1K 5% 1/4W
R1030	1-249-417-11	CARBON 1K 5%	1/4W		<CONNECTOR>		
R1032	1-249-417-11	CARBON 1K 5%	1/4W	U12	1-573-300-11	CONNECTOR, BOARD TO BOARD 18P	
R1033	1-249-393-11	CARBON 10 5%	1/4W	U13	1-573-300-11	CONNECTOR, BOARD TO BOARD 18P	
R1034	1-249-417-11	CARBON 1K 5%	1/4W	U16	*1-564-513-11	PLUG, CONNECTOR 10P	
R1036	1-249-440-11	CARBON 82K 5%	1/4W	U22	1-566-942-11	CONNECTOR, HINGE (RECEPTACLE) 30P	
R1037	1-249-440-11	CARBON 82K 5%	1/4W	U23	*1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)	
R1038	1-249-440-11	CARBON 82K 5%	1/4W	U47	*1-564-506-11	PLUG, CONNECTOR 3P	
R1043	1-249-417-11	CARBON 1K 5%	1/4W	*****			
R1046	1-249-413-11	CARBON 470 5%	1/4W	*A-1394-432-A UT BOARD, COMPLETE			
R1048	1-249-405-11	CARBON 100 5%	1/4W	*****			
R1050	1-249-405-11	CARBON 100 5%	1/4W		<CAPACITOR>		
R1051	1-249-417-11	CARBON 1K 5%	1/4W	C1152	1-102-074-00	CERAMIC 0.001MF	10% 50V
R1052	1-249-413-11	CARBON 470 5%	1/4W	C1154	1-164-096-11	CERAMIC 0.01MF	50V
R1054	1-249-405-11	CARBON 100 5%	1/4W	C1155	1-126-103-11	ELECT 470MF	20% 16V
R1055	1-249-413-11	CARBON 470 5%	1/4W	C1158	1-124-598-11	ELECT 22MF	20% 25V
R1056	1-249-405-11	CARBON 100 5%	1/4W	C1160	1-124-598-11	ELECT 22MF	20% 25V
R1057	1-249-441-11	CARBON 100K 5%	1/4W	C1161	1-124-598-11	ELECT 22MF	20% 25V
				C1164	1-126-103-11	ELECT 470MF	20% 16V
				C1165	1-126-301-11	ELECT 1MF	20% 50V
				C1166	1-126-301-11	ELECT 1MF	20% 50V
				C1167	1-126-301-11	ELECT 1MF	20% 50V

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

Les composants identifiés par une trame et une marque **△** sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by **△** in this manual 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.

KP-41EXR96
RM-Y112A

UT

REF. NO.	PART NO.	DESCRIPTION	REMARK
C1168	1-126-301-11	ELECT 1MF	20% 50V
C1199	1-102-129-00	CERAMIC 0.01MF	10% 50V
C1200	1-102-129-00	CERAMIC 0.01MF	10% 50V
<DIODE>			
D1152	8-719-110-36	DIODE RD13ES-B2	
D1158	8-719-110-36	DIODE RD13ES-B2	
D1159	8-719-110-36	DIODE RD13ES-B2	
D1160	8-719-110-36	DIODE RD13ES-B2	
D1163	8-719-110-36	DIODE RD13ES-B2	
D1164	8-719-110-36	DIODE RD13ES-B2	
D1165	8-719-110-36	DIODE RD13ES-B2	
D1166	8-719-110-36	DIODE RD13ES-B2	
D1167	8-719-110-36	DIODE RD13ES-B2	
D1168	8-719-110-36	DIODE RD13ES-B2	
D1169	8-719-110-36	DIODE RD13ES-B2	
D1170	8-719-110-36	DIODE RD13ES-B2	
<JACK>			
J1001	1-537-187-11	TERMINAL, PUSH (4P)	
J1003	1-573-970-11	BLOCK, (S) TERMINAL	
J1004	1-695-049-11	BLOCK, (S) TERMINAL	
J1005	1-695-054-11	JACK BLOCK, PIN	
J1006	1-573-970-11	BLOCK, (S) TERMINAL	
J1007	1-573-969-11	JACK BLOCK, PIN	
J1008	1-573-969-11	JACK BLOCK, PIN	
<RESISTOR>			
R1153	1-249-403-11	CARBON 68 5%	1/4W
R1164	1-247-895-00	CARBON 470K 5%	1/4W
R1165	1-247-895-00	CARBON 470K 5%	1/4W
R1166	1-247-895-00	CARBON 470K 5%	1/4W
R1167	1-247-895-00	CARBON 470K 5%	1/4W
R1168	1-247-895-00	CARBON 470K 5%	1/4W
R1169	1-249-403-11	CARBON 68 5%	1/4W
R1170	1-249-403-11	CARBON 68 5%	1/4W
R1171	1-247-895-00	CARBON 470K 5%	1/4W
R1172	1-247-895-00	CARBON 470K 5%	1/4W
R1173	1-247-804-11	CARBON 75 5%	1/4W
R1174	1-247-895-00	CARBON 470K 5%	1/4W
R1175	1-247-895-00	CARBON 470K 5%	1/4W
R1176	1-247-804-11	CARBON 75 5%	1/4W
R1178	1-247-895-00	CARBON 470K 5%	1/4W
R1179	1-247-895-00	CARBON 470K 5%	1/4W
R1180	1-247-804-11	CARBON 75 5%	1/4W
R1181	1-247-804-11	CARBON 75 5%	1/4W
R1183	1-247-895-00	CARBON 470K 5%	1/4W
R1184	1-247-895-00	CARBON 470K 5%	1/4W
R1185	1-247-895-00	CARBON 470K 5%	1/4W
R1186	1-247-895-00	CARBON 470K 5%	1/4W
R1188	1-247-804-11	CARBON 75 5%	1/4W
R1191	1-249-425-11	CARBON 4.7K 5%	1/4W
R1192	1-249-425-11	CARBON 4.7K 5%	1/4W
R1193	1-249-425-11	CARBON 4.7K 5%	1/4W
R1194	1-249-425-11	CARBON 4.7K 5%	1/4W
R1196	1-249-426-11	CARBON 5.6K 5%	1/4W
<SWITCH>			
S1150	1-572-198-11	SWITCH, KEYBOARD	

REF. NO.	PART NO.	DESCRIPTION	REMARK
<CONNECTOR>			
UT11	*1-564-519-11	PLUG, CONNECTOR 4P	
UT22	*1-566-941-11	CONNECTOR, HINGE (TAB) 30P	
UT23	*1-566-641-11	CONNECTOR, HINGE (TAB) 18P	
UT35	*1-564-518-11	PLUG, CONNECTOR 3P	

MISCELLANEOUS			

△	1-241-744-11	RESISTOR ASSY (HIGH-VOLTAGE)	
△	1-451-396-21	DEFLECTION YOKE (Y936PA)	
△	1-452-443-13	NECK ASSY, PICTURE TUBE (NA367)	
△	1-453-108-11	DC BLOCK, HIGH-VOLTAGE	
	1-544-768-11	SPEAKER (13CM) (COAXIAL)	
	*1-555-110-00	CABLE, PIN	
	1-561-306-00	JACK, PIN (F)	
	1-574-590-31	LEAD ASSY, HIGH-VOLTAGE	
△	1-696-002-12	CORD, POWER (WITH NOISE FILTER)	
V902	△ 8-736-631-05	PICTURE TUBE (SD-249 (G))	
V903	△ 8-736-632-05	PICTURE TUBE (SD-249 (B))	
V901	△ 8-736-633-05	PICTURE TUBE (SD-249 (R))	
MR900	△	METAL FILM	1/4W
MR901	△	METAL FILM	1/4W
MR902	△	METAL FILM	1/4W

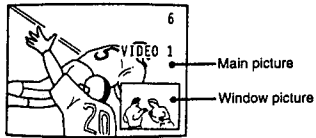
ACCESSORIES AND PACKING MATERIALS			

*3-704-356-01		SHEET (STANDARD), PROTECTION	
3-756-987-21		MANUAL, INSTRUCTION	
3-756-987-31		MANUAL, INSTRUCTION (KP-41EXR96(C))	
3-756-987-41		MANUAL, INSTRUCTION (KP-41EXR96(U))	
*4-030-895-01		JOINT	
*4-036-102-01		CUSHION (UPPER) (ASSY)	
*4-036-106-01		INDIVIDUAL CARTON	
*4-036-107-01		TRAY	
*4-036-108-01		CUSHION (LOWER) (ASSY)	
*4-381-155-01		BAG, PROTECTION	
REMOTE COMMANDER			
1-693-114-21		REMOTE COMMANDER (RM-Y112A)	
9-902 719-01		COVER (FOR RM-Y112A)	
9-998-214-01		COVER, BATTERY (FOR RM-Y112A)	

Chapter 3: Using Advanced Features

Watching Two Pictures at Once (PIP)

You can watch both the main picture and a window picture simultaneously, using the Picture-in-Picture (PIP) function. KP-41EXR96 is equipped with one-tuner PIP. To watch two TV channels simultaneously, you must first connect a VCR to the projection TV, which will enable you to watch a second TV channel through the VCR tuner. (See "Connecting Other Equipment," pp. 15–19.) Other models are equipped with two-tuner PIP, allowing you to watch two TV channels at once.



Picture-in-Picture special features

When watching the main picture and a window picture, you can:

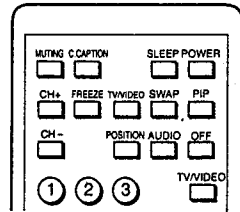
- Swap the main and window pictures (SWAP).
- Change the position of the window picture (POSITION).
- Display a still picture (FREEZE).
- Choose the sound from the main or window picture (AUDIO).

Notes

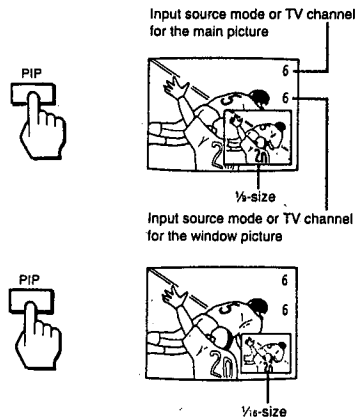
- The window picture sound is also output from the AUDIO (VAR) OUT jacks. The AUDIO OUT and MONITOR OUT jacks output the main picture sound only.
- The video label and channel caption will not appear with the window picture even if you have set them.
- If you select a blocked channel in the window picture, the display "BLOCKED" appears with the window picture. (See "Setting CHANNEL BLOCK," pp. 62–63.)

Displaying a window picture

Remote Commander



Press PIP to display a window picture



A window picture appears in the last mode you watched. Each time you press PIP, a 1/9 or 1/16 size window picture appears alternately.

To turn PIP function off
Press OFF.

The window picture disappears.

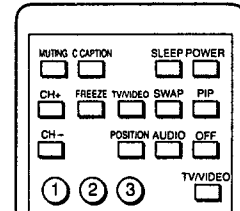
To receive the window picture sound
Press AUDIO.

The J display appears for a few seconds, indicating that the window picture sound is being received.

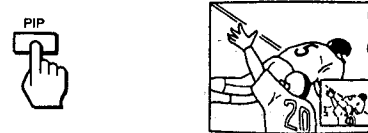
To restore the main picture sound
Press AUDIO again.

Changing the window picture input mode

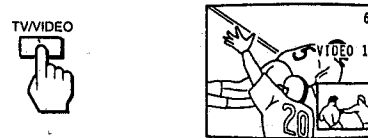
Remote Commander



1 Press PIP to display a window picture.



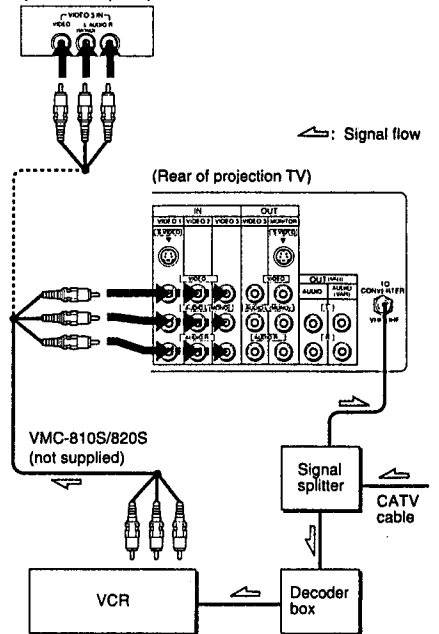
2 Press TV/VIDEO in the Picture-in-Picture control area to select the input mode. Each time you press TV/VIDEO, "TV," "VIDEO 1," "VIDEO 2" and "VIDEO 3" appear in sequence.



To change TV channels in the window picture
Press CH +/- in the PIP control area.

Displaying CATV input as a window picture

To use Picture-in-Picture with pay cable TV input, make the connections to your cable converter box as shown below. (Front inner panel)



After making the above connections, turn the cable connection on by following the steps on pp. 26–27; then continue with the steps below.

1–2 Follow steps 1–2 in "Changing the window picture input mode" on this page to select the video input mode for your connected VCR.

3 Put your VCR on an inactive channel (channel 3 or 4).

4 Change pay cable TV channels with the decoder box.

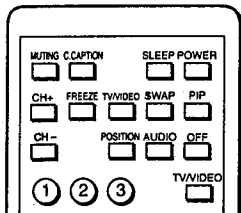
To control your cable converter box with the supplied Remote Commander
See p. 70.

Watching Two Pictures at Once (PIP)

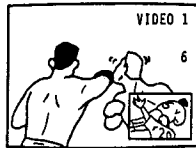
Changing the position of the window picture

Follow these instructions to change the position of the window picture on the screen.

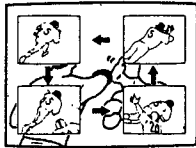
Remote Commander



1 Press PIP to display a window picture.



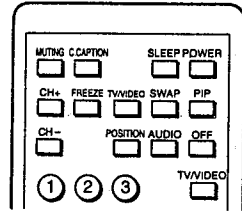
2 Press POSITION.
Each time you press POSITION, the window picture moves as illustrated.



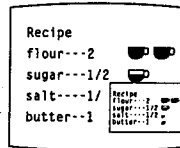
Displaying a still picture

Use the FREEZE function to display a still picture. This function is useful when you want to write down a recipe from a cooking program, a displayed address or phone number and so on.

Remote Commander



1 Press PIP to display a window picture.



2 Press FREEZE.
The window picture image remains still on the screen.

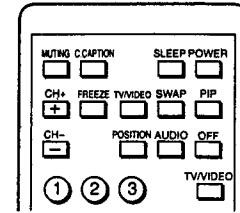


To restore the normal picture
Press FREEZE again.

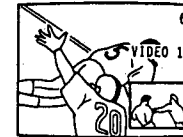
Swapping the main and window pictures

Follow these instructions to swap the input signals of the main and window pictures.

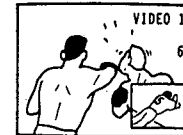
Remote Commander



1 Press PIP to display a window picture.



2 Press SWAP.
Each time you press SWAP, the images from the main and window pictures switch places.



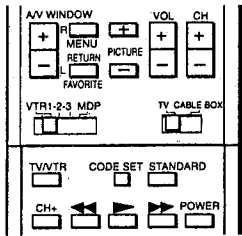
Adjusting the Projection TV

You can adjust the picture and sound for each input mode (TV, VIDEO 1, VIDEO 2, VIDEO 3) by pressing TV/VIDEO on the projection TV or on the Remote Commander to select the input mode, before making the adjustments. These adjustments are retained in memory even when you turn off the projection TV, but are cancelled after you change the adjustments, or select a picture and sound mode (pp. 38 – 39).

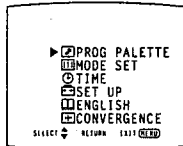
Adjusting the picture

Follow these instructions to adjust PICTURE, HUE, COLOR, BRIGHT (brightness) and SHARP (sharpness).

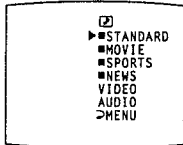
Remote Commander (with video control cover open)



1 Press MENU.
The main menu appears, and the cursor points to "PROG PALETTE."

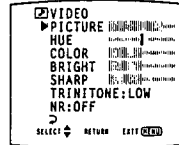


2 Press RETURN.
The program palette menu appears.



3 Press AV WINDOW +/- until the cursor points to "VIDEO."

4 Press RETURN.
The VIDEO screen appears.



5 Press AV WINDOW +/- until the cursor points to the item you want to adjust.

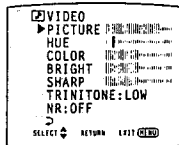
6 Press RETURN.
The adjustment screen appears.



7 Press AV WINDOW +/- to make the adjustment.

Picture quality	Press AV WINDOW -	Press AV WINDOW +
PICTURE	For decreased picture contrast with soft color	For increased picture with vivid color
HUE	Skin tones become purplish	Skin tones become greenish
COLOR	For less color intensity	For more color intensity
BRIGHT	For less brightness	For more brightness
SHARP	For less sharpness	For more sharpness

8 Press RETURN.
The adjustment is complete, and the VIDEO screen automatically reappears.



To adjust other items
Repeat steps 5 – 8.

To restore the factory settings for all the items
Select "STANDARD" on the program palette menu, and press RETURN;
or, press STANDARD on the Remote Commander.
All the items, including TRINITONE (p. 46) and NR (p. 47) return to their original factory settings.

To adjust picture contrast
You can also adjust picture contrast with the PICTURE +/- buttons on the Remote Commander.



Press + to increase picture contrast with vivid color.
Press - to decrease picture contrast with soft color.
The picture adjustment screen appears.

To return to the previous menu
Press AV WINDOW +/- until the cursor points to " > MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

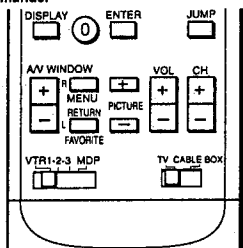
To return to the normal screen
Press MENU.

Adjusting the Projection TV

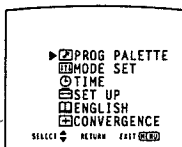
Setting the TRINITONE mode

Color picture tubes are usually manufactured with a fixed color temperature (tint) that determines the "warmth" (red tint) or "coolness" (blue tint) of the picture. Use the Sony Trinitone feature to adjust the picture color to your preference.

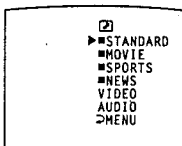
Remote Commander



- 1 Press MENU.
The main menu appears, and the cursor points to "PROG PALETTE."



- 2 Press RETURN.
The program palette menu appears.



- 3 Press AV WINDOW +/- until the cursor points to "VIDEO."

- 4 Press RETURN.
The VIDEO screen appears.



- 5 Press AV WINDOW +/- until the cursor points to "TRINITONE."

- 6 Press RETURN.
The mode display turns red.

- 7 Press AV WINDOW +/- to select "HIGH" or "LOW."

Select "HIGH" to make the picture cool (bluish).
Select "LOW" to make the picture warm (reddish).

- 8 Press RETURN.
The setting is complete.

To return to the previous menu

Press AV WINDOW +/- until the cursor points to " > MENU."

Then press RETURN.

To return to the main menu

Repeat the above, until you reach the main menu.

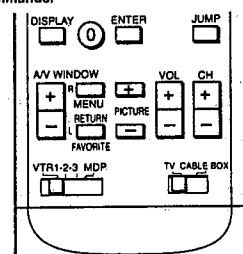
To return to the normal screen

Press MENU.

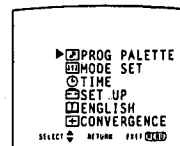
Setting NR (picture noise reduction) ON or OFF

Follow these instructions to reduce picture noise.

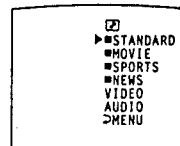
Remote Commander



- 1 Press MENU.
The main menu appears, and the cursor points to "PROG PALETTE."



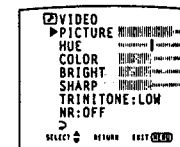
- 2 Press RETURN.
The program palette menu appears.



- 3 Press AV WINDOW +/- until the cursor points to "VIDEO."

- 4 Press RETURN.
The VIDEO screen appears.

- 5 Press AV WINDOW +/- until the cursor points to "NR."



- 6 Press RETURN.
The mode display turns red.

- 7 Press AV WINDOW +/- to select "ON" or "OFF."

Select "ON" to reduce picture noise.
Select "OFF" to restore the normal picture.

- 8 Press RETURN.
The setting is complete.

To return to the previous menu

Press AV WINDOW +/- until the cursor points to " > MENU."

Then press RETURN.

To return to the main menu

Repeat the above, until you reach the main menu.

To return to the normal screen

Press MENU.

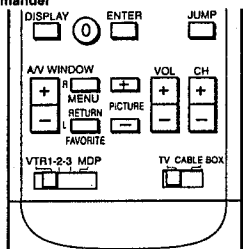
Adjusting the Projection TV

Setting S-VIDEO ON or OFF

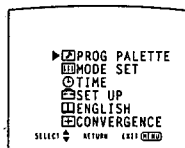
Follow these instructions to set S-VIDEO on or off, depending on the kind of video equipment you have connected to the projection TV. For instructions on connecting video equipment, see pp. 15 - 18.

Note
If the projection TV is in TV, VIDEO 2 or VIDEO 3 mode, the "S-VIDEO" display is shaded and cannot be selected. Press TV/VIDEO on the projection TV or on the Remote Commander to change to VIDEO 1 mode.

Remote Commander

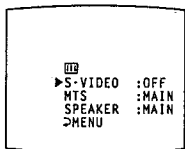


- 1** Press MENU.
The main menu appears.



- 2** Press AV WINDOW +/- until the cursor points to "MODE SET."

- 3** Press RETURN.
The mode set menu appears, with the cursor pointing to "S-VIDEO."



- 4** Press RETURN.
The mode display turns red.

- 5** Press AV WINDOW +/- to select "ON" or "OFF."

- 6** Press RETURN.
The setting is complete.

To return to the previous menu
Press AV WINDOW +/- until the cursor points to "> MENU."
Then press RETURN.

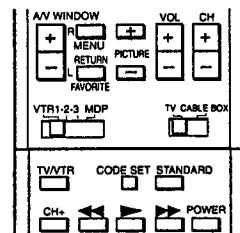
To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU.

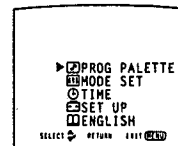
Adjusting the sound

Follow these instructions to adjust the TREBLE, BASS and BALANCE.

Remote Commander (with video control cover open)



- 1** Press MENU.
The main menu appears, and the cursor points to "PROG PALETTE."



- 2** Press RETURN.
The program palette menu appears.



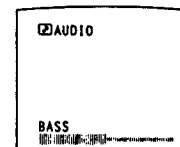
- 3** Press AV WINDOW +/- until the cursor points to "AUDIO."

- 4** Press RETURN.
The AUDIO screen appears.



- 5** Press AV WINDOW +/- until the cursor points to the item you want to adjust.

- 6** Press RETURN.
The adjustment screen appears.



- 7** Press AV WINDOW +/- to make the adjustment.

Sound quality	Press AV WINDOW -	Press AV WINDOW +
TREBLE	To decrease the treble response	To increase the treble response
BASS	To decrease the bass response	To increase the bass response
BALANCE	To emphasize the left speaker's volume	To emphasize the right speaker's volume

- 8** Press RETURN.
The adjustment is complete, and the AUDIO screen automatically reappears.



To adjust other items
Repeat steps 5 - 9.

To restore the factory settings for all the items
Select "STANDARD" on the program palette menu, and press RETURN; or, press STANDARD on the Remote Commander.
All the items, including SRS mode (p. 50) return to their original factory settings.

To return to the previous menu
Press AV WINDOW +/- until the cursor points to "> MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU.

Adjusting the Projection TV

Selecting an SRS (Sound Retrieval System) mode

For lifelike sound reproduction, follow the instructions below to select the SRS mode you prefer.

In SRS AUTO mode, SRS functions in both monaural and stereo modes.

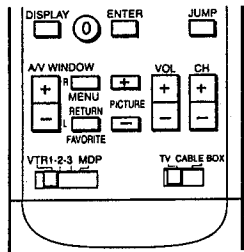
Monaural sound programs will have a 'simulated stereo' effect.

In SRS STEREO mode, SRS functions only when a stereo program is received.

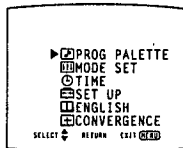
The STEREO lamp on the TV lights up whenever a stereo broadcast is received.

Select SRS OFF mode to return to normal sound mode.

Remote Commander



- 1 Press MENU.
The main menu appears, and the cursor points to "PROG PALETTE."



- 2 Press RETURN.
The program palette menu appears.



- 3 Press A/V WINDOW +/- until the cursor points to "AUDIO."

- 4 Press RETURN.
The AUDIO screen appears.



- 5 Press A/V WINDOW +/- until the cursor points to the SRS mode you want.

- 6 Press RETURN.
The mode is selected.

To change the SRS mode
Repeat steps 5 - 6.

To return to the previous menu
Press A/V WINDOW +/- until the cursor points to " > MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU.

Selecting an MTS (Multichannel TV Sound) mode

Follow these instructions to select an MTS mode.

Select MAIN mode to listen to stereo sound.

The STEREO lamp on the projection TV lights up whenever a stereo broadcast is received.

Select SAP mode to listen to Second Audio Programs.

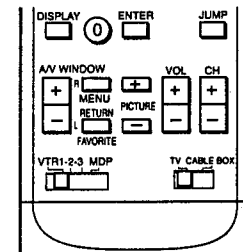
Select MONO mode to eliminate excessive noise during stereo broadcasts, caused by a weak incoming signal.

Note

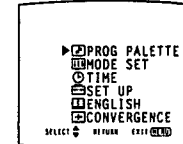
If the projection TV is in video mode, the "MTS" display is shaded and cannot be selected.

Press TV/VIDEO on the projection TV or on the Remote Commander to change to TV mode.

Remote Commander

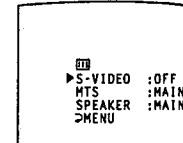


- 1 Press MENU.
The main menu appears.



- 2 Press A/V WINDOW +/- until the cursor points to "MODE SET."

- 3 Press RETURN.
The mode set menu appears.



- 4 Press A/V WINDOW +/- until the cursor points to "MTS."

- 5 Press RETURN.
The mode display turns red.

- 6 Press A/V WINDOW +/- to select the mode you want.
Each time you press A/V WINDOW +/-, "MAIN," "SAP" and "MONO" appear in sequence.

- 7 Press RETURN.
The mode is selected.

To return to the previous menu
Press A/V WINDOW +/- until the cursor points to " > MENU."
Then press RETURN.

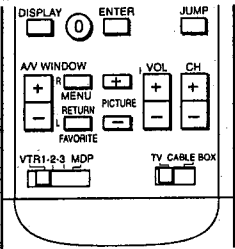
To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU.

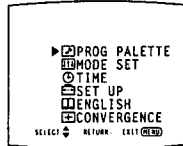
Setting SPEAKER — MAIN or CENTER

Follow these instructions to set SPEAKER to "CENTER" when you connect an audio system (p.19), and to "MAIN" when you want to listen to the sound from the projection TV speakers.

Remote Commander

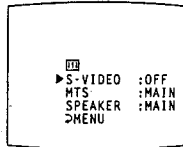


- 1 Press MENU.
The main menu appears.



- 2 Press A/V WINDOW +/- until the cursor points to "MODE SET."

- 3 Press RETURN.
The mode set menu appears.



- 4 Press A/V WINDOW +/- until the cursor points to "SPEAKER."

- 5 Press RETURN.
The mode display turns red.

- 6 Press A/V WINDOW +/- to select "MAIN" or "CENTER."

- 7 Press RETURN.
The setting is complete.

To return to the previous menu
Press A/V WINDOW +/- until the cursor points to " > MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

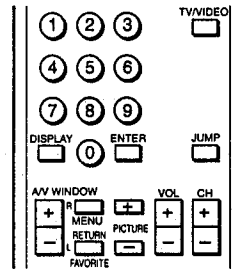
To return to the normal screen
Press MENU.

Setting channel captions — CH CAPTION

Follow these instructions to caption each channel number display with a name, for instance, the television station call letters. (You can set up to four letters or numbers).

Example: Caption channel 15 as "NBC."

Remote Commander

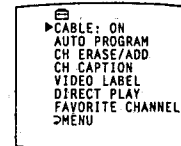


- 1 Press MENU.
The main menu appears.



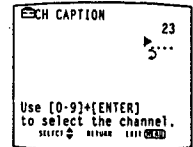
- 2 Press A/V WINDOW +/- until the cursor points to "SET UP."

- 3 Press RETURN.
The set up menu appears.

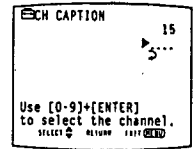


- 4 Press A/V WINDOW +/- until the cursor points to "CH CAPTION."

- 5 Press RETURN.
The CH CAPTION screen appears.

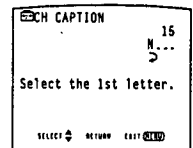


- 6 Press CH +/-, or press 1, 5 and ENTER to set channel "15."



- 7 Press RETURN.
The first caption space turns red.

- 8 Press A/V WINDOW +/- to select "N."
Each time you press A/V WINDOW +/-, "0" - "9," "A" - "Z," " < ", " > ", " < " and " < " (blank space) appear in sequence.



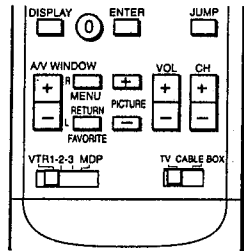
- 9 Press RETURN.
The second caption space turns red.

(Continued)

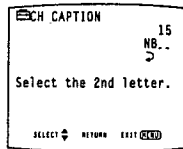
Customizing the Screen Display

Setting channel captions – CH CAPTION (Cont'd. from prev. page)

Remote Commander

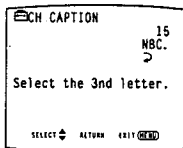


- 10** Press AV WINDOW +/- to select "B."



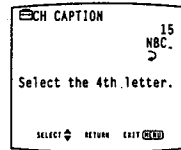
- 11** Press RETURN.
The third caption space turns red.

- 12** Press AV WINDOW +/- to select "C."



- 13** Press RETURN.
The fourth caption space turns red.

- 14** Press AV WINDOW +/- to select a blank space.



- 15** Press RETURN.
The setting is complete.
When you select or display the channel number, the channel caption also appears.

To caption more channels
Repeat steps 6 – 15.

To erase unnecessary captions
Display the CH CAPTION screen, select the channel with the caption you want to erase, and select blank spaces for the channel caption; then press RETURN.
The caption for that channel is erased.

To return to the previous menu
Press AV WINDOW +/- until the cursor points to " > MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU.

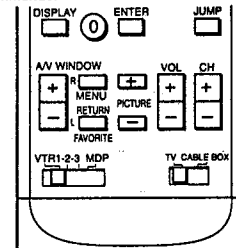
Note
You can set up to 32 channel captions. If the memory is full, "The memory is full, sorry" appears on the screen. Erase any unnecessary captions, and begin again.

Setting VIDEO LABEL

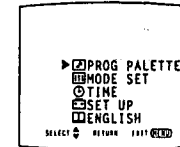
Follow these instructions to label each input mode, in order to identify the equipment connected to each input terminal.

Example: Label VIDEO 1 IN as "VHS."

Remote Commander

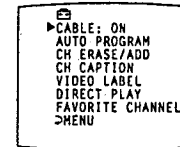


- 1** Press MENU.
The main menu appears.



- 2** Press AV WINDOW +/- until the cursor points to "SET UP."

- 3** Press RETURN.
The set up menu appears.



- 4** Press AV WINDOW +/- until the cursor points to "VIDEO LABEL."

- 5** Press RETURN.
The VIDEO LABEL screen appears.



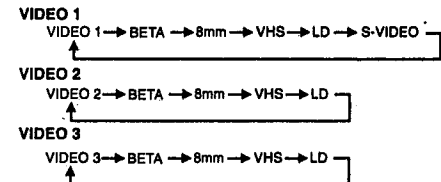
- 6** Press AV WINDOW +/- until the cursor points to the input mode you want to label. (In this case, the cursor is already pointing to "VIDEO 1.")

- 7** Press RETURN.
The label display turns red.

- 8** Press AV WINDOW +/- to select "VHS."



Each time you press AV WINDOW +/-, the label changes:



- 9** Press RETURN.
The setting is complete.
When you select or display the video mode, the video label appears.

To label other Input modes

Repeat steps 6 – 9.

To change a label
Same as above.

To return to the previous menu
Press AV WINDOW +/- until the cursor points to " > MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU.

Using Timer-Activated Functions



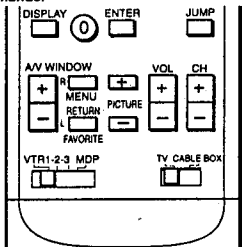
Setting DAYLIGHT SAVING

If you live in an area that uses daylight savings time, set DAYLIGHT SAVING to "YES" or "NO" depending on the season, before setting the current time. At the next daylight savings date, you will be able to automatically adjust all the time-related settings (CURRENT TIME, ON/OFF TIMER and CHANNEL BLOCK) simply by changing the DAYLIGHT SAVING setting.

When setting DAYLIGHT SAVING:

- **After the first Sunday in April (spring daylight savings)**
Set to "YES" before setting the current time.
Then, on the last Sunday in October (fall daylight savings), set to "NO."
All the time-related settings automatically move one hour back.
- **After the last Sunday in October (fall daylight savings)**
Set to "NO" before setting the current time.
Then, on the first Sunday in April (spring daylight savings), set to "YES."
All the time-related settings automatically move one hour ahead.

Remote Commander



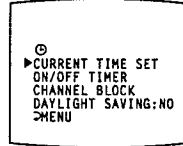
Follow these instructions to set DAYLIGHT SAVING to "YES" or "NO."

- 1 Press MENU.
The main menu appears.



- 2 Press AV WINDOW +/- until the cursor points to "TIME."

- 3 Press RETURN.
The time menu appears.



- 4 Press AV WINDOW +/- until the cursor points to "DAYLIGHT SAVING."

- 5 Press RETURN.
The mode display turns red.

- 6 Press AV WINDOW +/- to select "YES" or "NO."

- 7 Press RETURN.
The setting is complete.

To return to the previous menu
Press AV WINDOW +/- until the cursor points to " > MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

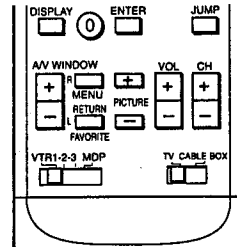
To return to the normal screen.
Press MENU.

Setting the clock — CURRENT TIME SET

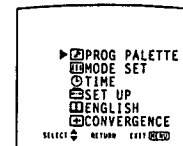
Follow these instructions to set the current time. The correct current time must be set in order to use the other time-related functions (DAYLIGHT SAVING, ON/OFF TIMER, CHANNEL BLOCK).

Example: Set the time to 3:15 PM, Monday.

Remote Commander

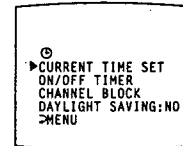


- 1 Press MENU.
The main menu appears.



- 2 Press AV WINDOW +/- until the cursor points to "TIME."

- 3 Press RETURN.
The time menu appears, and the cursor points to "CURRENT TIME SET."



- 4 Press RETURN again.
The CURRENT TIME SET screen appears, with a reminder to set DAYLIGHT SAVING.



If you do not need to set DAYLIGHT SAVING, press RETURN and continue from step 5.

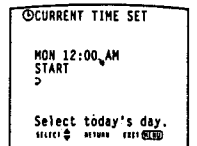
To set daylight saving

- a Press AV WINDOW +/- until the cursor points to "DAYLIGHT SAVING."
- b Press RETURN.
The time menu appears, and the cursor points to "DAYLIGHT SAVING."
- c Press RETURN.
- d Press AV WINDOW +/- to select "YES" or "NO."
- e Press RETURN.
The setting is complete.

To set the time, press AV WINDOW +/- until the cursor points to "CURRENT TIME SET"; press RETURN, then continue from step 5.

- 5 Press RETURN.
The CURRENT TIME SET screen appears, and the "SUN" display appears (red).

- 6 Press AV WINDOW +/- to select "MON."
Each time you press AV WINDOW +/-, the day changes consecutively.



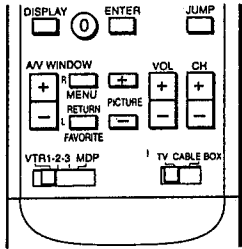
(Continued)



Setting the clock — CURRENT TIME SET

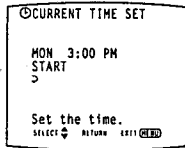
(Cont'd. from prev. page)

Remote Commander



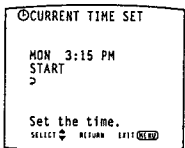
7 Press RETURN.
The hour and am/pm displays turn red.

8 Press AV WINDOW +/- to set "3:00PM."
Each time you press AV WINDOW +/-, the hour changes in sequence beginning with "12:00AM."



9 Press RETURN.
The minute display turns red.

10 Press AV WINDOW +/- to select "15" (minutes).
Each time you press AV WINDOW +/-, the minutes change in sequence.



11 Press RETURN.
The cursor points to "START."

12 Check the actual time, and press RETURN to start the clock.
The setting is complete.

To reset the time
Display the CURRENT TIME SET screen and repeat steps 5 – 12.

To display the current time
Press DISPLAY.

To return to the previous menu
Press AV WINDOW +/- until the cursor points to " > MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

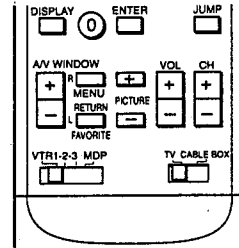
To return to the normal screen.
Press MENU.

Setting the ON/OFF TIMER

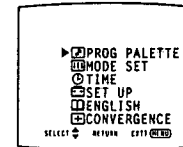
Follow these instructions to make the program of your choice appear on the screen at a specified time.

Example: Set the timer to turn on the projection TV every Monday through Friday at 1:30 AM for 3 hours, on channel 8, as PROGRAM 1. (You can set up to three programs.)

Remote Commander



1 Press MENU.
The main menu appears.



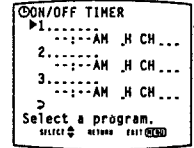
2 Press AV WINDOW +/- until the cursor points to "TIME."

3 Press RETURN.
The time menu appears.



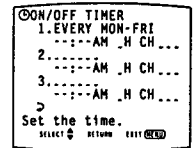
4 Press AV WINDOW +/- until the cursor points to "ON/OFF TIMER."

5 Press RETURN.
The ON/OFF TIMER screen appears, and the cursor points to "1."

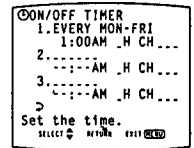


6 To set program 1, press RETURN.
(To set program 2 or 3, press AV WINDOW +/- until the cursor points to that program; then press RETURN.)
The day input space turns red.

7 Press AV WINDOW +/- to select "EVERY MON-FRI"; then press RETURN.
Each time you press AV WINDOW +/-, the days of the week change as shown in Fig. 1 (p. 61).



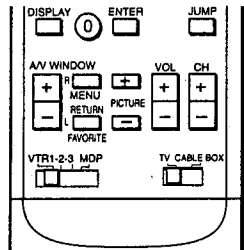
8 Press AV WINDOW +/- to select "1:00AM"; then press RETURN.
Each time you press AV WINDOW +/-, the hour changes in sequence.



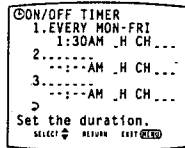
(Continued)

Setting the ON-OFF TIMER (Cont'd from prev. page)

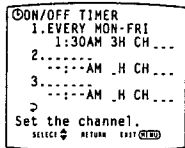
Remote Commander



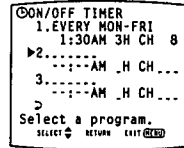
9 Press A/V WINDOW +/- to select "30" (minutes); then press RETURN.
Each time you press A/V WINDOW +/-, the minutes change in sequence.



10 Press A/V WINDOW +/- to select "3" (hour duration); then press RETURN.
Each time you press A/V WINDOW +/-, the duration changes from "1" - "6" in sequence.



11 Press A/V WINDOW +/- to select "8" (channel); then press RETURN.
The TIMER/STAND BY lamp lights, indicating that the setting is complete.
Each time you press A/V WINDOW +/-, the channel number changes from 1 - 125 in sequence.



The display "TIMER WILL BE OFF" appears on the screen one minute before the timer duration ends.

To set program 2 or 3.
Press RETURN and repeat steps 6 - 11.

To erase an ON/OFF TIMER setting
Display the ON/OFF TIMER screen, select the setting you want to erase, and select a blank space for the day.
The ON/OFF TIMER setting is erased.

To enter a new ON/OFF TIMER setting
Display the ON/OFF TIMER screen and repeat steps 6 - 11.

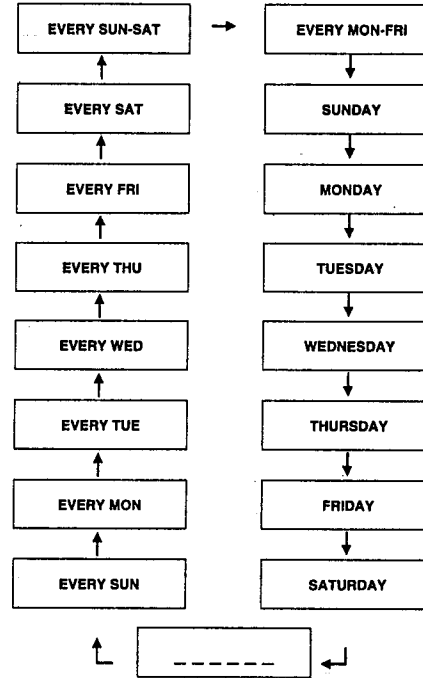
To return to the previous menu
Press A/V WINDOW +/- until the cursor points to " > MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen.
Press MENU.

Note
If you unplug the projection TV or a power failure occurs, both the clock and timer settings will be erased. Reset the current time; then set the timer.

Fig. 1
Selecting the day(s) of the week
When you press A/V WINDOW +, the days of the week appear in the following order:



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

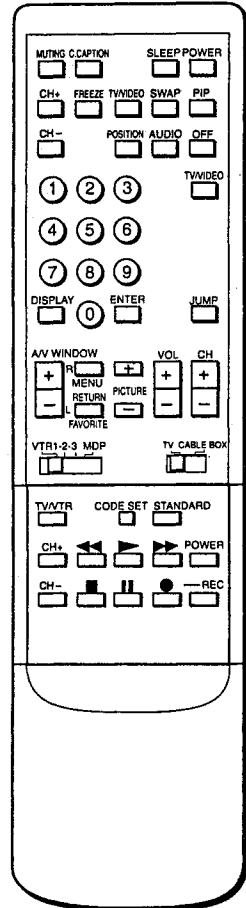
Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<DIODE>				<TRANSISTOR>			
D801	8-719-928-08	DIODE ERD28-08S		Q801 Δ 8-729-201-61	TRANSISTOR 2SC2555-1		
D802	8-719-300-80	DIODE RU-1C		Q802	8-729-119-80	TRANSISTOR 2SC2688-LK	
D803	8-719-109-85	DIODE RD5.1ES-B2		Q803	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D804	8-719-911-19	DIODE ISS119		Q804	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D805	8-719-911-19	DIODE ISS119		Q805	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D806	8-719-109-85	DIODE RD5.1ES-B2		Q806	8-729-119-80	TRANSISTOR 2SC2688-LK	
D807	8-719-109-85	DIODE RD5.1ES-B2		Q807	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D808	8-719-911-19	DIODE ISS119		Q808	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D809	8-719-911-19	DIODE ISS119		Q809	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D810	8-719-911-19	DIODE ISS119		Q811 Δ 8-729-805-07	TRANSISTOR 2SD1887-CA		
D811	8-719-109-85	DIODE RD5.1ES-B2		Q812	8-729-019-88	TRANSISTOR 2SC3675-CB	
D812	8-719-911-19	DIODE ISS119		Q820	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D813	8-719-911-19	DIODE ISS119		Q851	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D814	8-719-911-19	DIODE ISS119		Q852	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D815	8-719-110-36	DIODE RD13ES-B2		Q853	8-729-820-98	TRANSISTOR 2SC4256CB	
D817	8-719-945-80	DIODE ERC06-15S		<RESISTOR>			
D818	8-719-911-19	DIODE ISS119		R801	1-216-378-11	METAL OXIDE	5.6 5% 2W F
D820	8-719-911-19	DIODE ISS119		R802	1-215-926-00	METAL OXIDE	33K 5% 3W F
D850	8-719-109-71	DIODE RD3.9ES-B1		R803	1-215-926-00	METAL OXIDE	33K 5% 3W F
D851 Δ 8-719-903-09	DIODE V30N			R804	1-249-429-11	CARBON	10K 5% 1/4W
D852	8-719-911-19	DIODE ISS119		R805	1-249-423-11	CARBON	3.3K 5% 1/4W
D853 Δ 8-719-903-09	DIODE V30N			R806	1-249-425-11	CARBON	4.7K 5% 1/4W
D891	8-719-110-49	DIODE RD18ES-B2		R807	1-249-441-11	CARBON	100K 5% 1/4W
D892	8-719-110-49	DIODE RD18ES-B2		R808	1-249-417-11	CARBON	1K 5% 1/4W
<IC>				R809	1-249-417-11	CARBON	1K 5% 1/4W
IC801	8-759-231-58	IC TA7812S		R810	1-249-441-11	CARBON	100K 5% 1/4W
IC802	8-759-103-93	IC UPC393C		R811	1-249-421-11	CARBON	2.2K 5% 1/4W
IC803	8-759-990-82	IC TL082CP		R812	1-249-420-11	CARBON	1.8K 5% 1/4W F
IC804	8-759-103-93	IC UPC393C		R813	1-215-921-11	METAL OXIDE	4.7K 5% 3W F
IC805	8-759-100-75	IC UPC1394C		R814	1-249-409-11	CARBON	220 5% 1/4W
<COIL>				R815	1-249-415-11	CARBON	680 5% 1/4W
L801	1-459-862-11	COIL, CHOKE 90UH		R816	1-214-777-00	METAL	100K 1% 1/4W
L802	1-424-603-11	COIL, CHOKE 1.05MMH		R817	1-215-471-00	METAL	120K 1% 1/4W
L803	1-459-313-00	COIL WITH CORE (HWC)		R818	1-215-471-00	METAL	120K 1% 1/4W
L804	1-410-482-31	INDUCTOR 100UH		R819	1-215-450-00	METAL	16K 1% 1/4W
L805 Δ 1-424-603-11	COIL, CHOKE 1.05MMH			R820	1-215-451-00	METAL	18K 1% 1/4W
<CONNECTOR>				R821	1-249-423-11	CARBON	3.3K 5% 1/4W
N1	1-506-348-99	PIN, CONNECTOR 3P		R822	1-249-433-11	CARBON	22K 5% 1/4W
N2	*1-564-508-11	PLUG, CONNECTOR 5P		R823	1-249-429-11	CARBON	10K 5% 1/4W
N3	*1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P		R824	1-215-469-00	METAL	100K 1% 1/4W
N4	*1-564-507-11	PLUG, CONNECTOR 4P		R825	1-215-453-00	METAL	22K 1% 1/4W
N5	*1-564-508-11	PLUG, CONNECTOR 5P		R826	1-214-962-00	METAL	820K 1% 1/4W
N6	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P		R827	1-214-764-00	METAL	30K 1% 1/4W
N7	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P		R828	1-215-455-00	METAL	27K 1% 1/4W
N8	*1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P		R829	1-215-455-00	METAL	27K 1% 1/4W
N9	1-506-348-99	PIN, CONNECTOR 3P		R830	1-215-928-11	METAL OXIDE	68K 5% 3W F
N10	*1-564-511-41	PLUG, CONNECTOR 8P		R831	1-215-928-11	METAL OXIDE	68K 5% 3W F
N20	*1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P		R832	1-249-417-11	CARBON	1K 5% 1/4W
N21	*1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P		R833	1-249-419-11	CARBON	1.5K 5% 1/4W
N30	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P		R834	1-249-419-11	CARBON	1.5K 5% 1/4W
N851	*1-506-371-00	PIN, CONNECTOR 2P		R835	1-215-429-00	METAL	2.2K 1% 1/4W
N853	*1-506-371-00	PIN, CONNECTOR 2P		R836	1-215-435-00	METAL	3.9K 1% 1/4W
<NEON LAMP>				R837	1-249-433-11	CARBON	22K 5% 1/4W
NL801	1-519-108-99	LAMP, NEON		R838	1-249-435-11	CARBON	33K 5% 1/4W
				R839	1-249-438-11	CARBON	56K 5% 1/4W
				R840	1-249-434-11	CARBON	27K 5% 1/4W
				R841	1-249-429-11	CARBON	10K 5% 1/4W
				R842	1-249-435-11	CARBON	33K 5% 1/4W
				R843	1-249-423-11	CARBON	3.3K 5% 1/4W

Selecting a Picture and Sound Mode

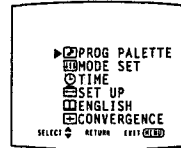
This projection TV features four modes (STANDARD, MOVIE, SPORTS, NEWS) that offer different picture and sound qualities. Choose the one that best suits the type of program that you want to watch.

Example: Select MOVIE mode for picture and sound that gives you the sense of being in a movie theater.

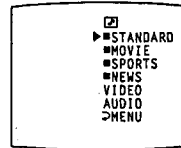


(with video control cover open)

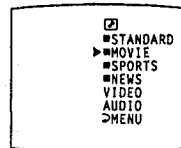
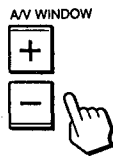
- 1 Press MENU.
The main menu appears, and the cursor points to "PROG PALETTE."



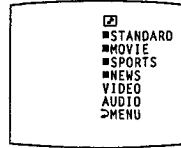
- 2 Press RETURN.
The program palette menu appears.



- 3 Press AV WINDOW +/- until the cursor points to "MOVIE."



- 4 Press RETURN.
The "MOVIE" display turns green, indicating that MOVIE mode is selected.



To select a different mode
Repeat steps 3 - 4.

Selecting standard mode (without using the menus)

Follow these instructions to select standard mode without using the on-screen menus.

Press STANDARD.



When you select STANDARD mode

You receive standard picture and sound quality. Any video or audio adjustments you made ("Adjusting the Projection TV," pp. 44 - 52) are cancelled and the original factory settings are restored.

When you select MOVIE mode

You receive a finely detailed picture, and a theatrical audio effect. To further adjust picture and sound qualities, follow the instructions on pp. 44 - 52.

When you select SPORTS mode

You receive a vivid, bright picture, and sound with a sports stadium effect. To further adjust picture and sound qualities, follow the instructions on pp. 44 - 52.

When you select NEWS mode

Picture noise is reduced, and you receive clear voice reproduction. To further adjust picture and sound qualities, follow the instructions on pp. 44 - 52.

• The components identified by in this manual 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.

Les composants identifiés par une trame et une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifique.

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



REF. NO.	PART NO.	DESCRIPTION	REMARK
R844	1-249-433-11	CARBON 22K 5%	1/4W
R845	1-249-435-11	CARBON 33K 5%	1/4W
R846	1-249-429-11	CARBON 10K 5%	1/4W
R847	1-214-761-00	METAL 22K 1%	1/4W
R848	1-215-429-00	METAL 2.2K 1%	1/4W
R849	1-215-421-00	METAL 1K 1%	1/4W
R850	1-215-429-00	METAL 2.2K 1%	1/4W
R851	1-215-404-00	METAL 200 1%	1/4W
<input checked="" type="checkbox"/> R852 <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> 1-215-469-00	<input checked="" type="checkbox"/> METAL 100K 1%	<input checked="" type="checkbox"/> 1/4W
R853	1-215-469-00	METAL 100K 1%	1/4W
R854	1-249-430-11	CARBON 12K 5%	1/4W
R855	1-215-469-00	METAL 100K 1%	1/4W
R856	1-249-430-11	CARBON 12K 5%	1/4W
R857	1-249-433-11	CARBON 22K 5%	1/4W
R858	1-249-413-11	CARBON 470 5%	1/4W
R859	1-249-435-11	CARBON 33K 5%	1/4W
R860	1-249-441-11	CARBON 100K 5%	1/4W
R861	1-249-421-11	CARBON 2.2K 5%	1/4W
R862	1-249-434-11	CARBON 27K 5%	1/4W
R863	1-249-431-11	CARBON 15K 5%	1/4W
R864	1-249-423-11	CARBON 3.3K 5%	1/4W
R865	1-249-440-11	CARBON 82K 5%	1/4W
R866	1-249-436-11	CARBON 39K 5%	1/4W
R867	1-249-437-11	CARBON 47K 5%	1/4W
R868	1-249-428-11	CARBON 8.2K 5%	1/4W
R869	1-249-429-11	CARBON 10K 5%	1/4W
R870	1-249-417-11	CARBON 1K 5%	1/4W
R871	1-249-440-11	CARBON 82K 5%	1/4W
R872	1-249-423-11	CARBON 3.3K 5%	1/4W
R873	1-249-441-11	CARBON 100K 5%	1/4W
R874	1-249-435-11	CARBON 33K 5%	1/4W
R875	1-249-421-11	CARBON 2.2K 5%	1/4W
R876	1-215-426-00	METAL 1.6K 1%	1/4W
R877	1-249-435-11	CARBON 33K 5%	1/4W
R878	1-249-441-11	CARBON 100K 5%	1/4W
R879	1-216-489-11	METAL OXIDE 27K 5%	3W F
R880	1-249-429-11	CARBON 10K 5%	1/4W
R881	1-214-761-00	METAL 22K 1%	1/4W
R882	1-249-433-11	CARBON 22K 5%	1/4W
R883	1-249-417-11	CARBON 1K 5%	1/4W
R884	1-215-894-11	METAL OXIDE 2.2K 5%	2W F
R885	1-249-438-11	CARBON 56K 5%	1/4W
R886	1-249-414-11	CARBON 560 5%	1/4W
R887	1-215-397-00	METAL 100 1%	1/4W
R888	1-249-410-11	CARBON 270 5%	1/4W
R889	1-249-417-11	CARBON 1K 5%	1/4W
R890	1-249-417-11	CARBON 1K 5%	1/4W
R891	1-216-489-11	METAL OXIDE 27K 5%	3W F
R892	1-249-417-11	CARBON 1K 5%	1/4W F
R893	1-215-453-00	METAL 22K 1%	1/4W
R894	1-249-401-11	CARBON 47 5%	1/4W
R895	1-202-731-00	SOLID 10W 20%	1/2W
R896	1-260-111-11	CARBON 10K 5%	1/2W
R897	1-247-881-00	CARBON 120K 5%	1/4W
R898	1-202-730-00	SOLID 8.2W 20%	1/2W
R899	1-249-429-11	CARBON 10K 5%	1/4W
R903	1-247-735-11	SOLID 47 20%	1/2W
R904	1-215-928-11	METAL OXIDE 68K 5%	3W F
R905	1-215-911-11	METAL OXIDE 100 5%	3W F
<SPARK GAP>			
SG801	1-519-422-11	GAP, SPARK	

REF. NO.	PART NO.	DESCRIPTION	REMARK
<TRANSFORMER>			
T801	<input checked="" type="checkbox"/> 1-437-078-11	<input checked="" type="checkbox"/> TRANSFORMER, HORIZONTAL DRIVE	
T802	1-437-090-00	HDT	
T803	<input checked="" type="checkbox"/> 1-453-121-11	<input checked="" type="checkbox"/> TRANSFORMER ASSY, FLYBACK (NX-2630B4)	

*A-1394-421-A	S BOARD, COMPLETE		

*1-565-514-11	SOCKET, CONNECTOR 2P		
<CAPACITOR>			
C3403	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C3408	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C3409	1-124-477-11	ELECT 47MF	20% 16V
C3411	1-124-034-51	ELECT 33MF	20% 16V
C3442	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C3446	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C3447	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C3448	1-163-023-00	CERAMIC CHIP 0.015MF	10% 50V
C3449	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V
C3450	1-163-109-00	CERAMIC CHIP 47PF	5% 50V
C3451	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3452	1-163-989-11	CERAMIC CHIP 0.033MF	10% 25V
C3453	1-124-477-11	ELECT 47MF	20% 16V
C3454	1-126-162-11	ELECT 3.3MF	20% 50V
C3455	1-126-163-11	ELECT 4.7MF	20% 16V
C3456	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C3457	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C3459	1-124-477-11	ELECT 47MF	20% 16V
C3460	1-163-099-00	CERAMIC CHIP 18PF	5% 50V
C3461	1-163-099-00	CERAMIC CHIP 18PF	5% 50V
C3507	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C3508	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C3509	1-163-139-00	CERAMIC CHIP 820PF	5% 50V
C3515	1-163-121-00	CERAMIC CHIP 150PF	5% 50V
C3540	1-126-157-11	ELECT 10MF	20% 16V
<DIODE>			
D3444	8-719-404-46	DIODE MA110	
<IC>			
IC3401	8-759-403-44	IC MN1280-S	
IC3402	8-759-070-42	IC M37201M6-A18FP	
IC3441	8-759-982-21	IC RC78L05A	
IC3442	8-759-084-12	IC LA7945	
IC3443	8-759-158-03	IC LC7458A-02	
IC3444	8-759-403-44	IC MN1280-S	
<COIL>			
L3401	1-408-421-00	INDUCTOR 100UH	
L3461	1-408-409-00	INDUCTOR 10UH	
L3462	1-408-421-00	INDUCTOR 100UH	
<TRANSISTOR>			
Q3441	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q3444	8-729-903-10	TRANSISTOR FMW1	



REF. NO.	PART NO.	DESCRIPTION	REMARK
<RESISTOR>			
R3401	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R3402	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R3403	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R3404	1-216-033-00	METAL GLAZE 220 5%	1/10W
R3405	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R3406	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R3407	1-216-033-00	METAL GLAZE 220 5%	1/10W
R3408	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R3409	1-216-033-00	METAL GLAZE 220 5%	1/10W
R3441	1-216-025-00	METAL GLAZE 100 5%	1/10W
R3442	1-216-041-00	METAL GLAZE 470 5%	1/10W
R3443	1-216-041-00	METAL GLAZE 470 5%	1/10W
R3444	1-216-077-00	METAL GLAZE 15K 5%	1/10W
R3445	1-216-689-11	METAL GLAZE 39K 5%	1/10W
R3446	1-216-085-00	METAL GLAZE 33K 5%	1/10W
R3449	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R3450	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R3451	1-216-093-00	METAL GLAZE 68K 5%	1/10W
R3452	1-216-079-00	METAL GLAZE 18K 5%	1/10W
R3453	1-216-679-11	METAL CHIP 15K 0.50%	1/10W
R3454	1-216-037-00	METAL GLAZE 330 5%	1/10W
R3455	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R3456	1-216-077-00	METAL GLAZE 15K 5%	1/10W
R3463	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R3464	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R3465	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R3472	1-216-091-00	METAL GLAZE 56K 5%	1/10W
R3473	1-216-025-00	METAL GLAZE 100 5%	1/10W
R3474	1-216-295-00	METAL GLAZE 0 5%	1/10W
R3504	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R3509	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R3511	1-216-025-00	METAL GLAZE 100 5%	1/10W
R3512	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W
R3513	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W
R3514	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W
R3519	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R3520	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R3521	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R3525	1-216-295-00	METAL GLAZE 0 5%	1/10W
R3526	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R3528	1-216-295-00	METAL GLAZE 0 5%	1/10W
R3529	1-216-295-00	METAL GLAZE 0 5%	1/10W
R3530	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R3531	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R3532	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R3535	1-216-033-00	METAL GLAZE 220 5%	1/10W
R3537	1-216-295-00	METAL GLAZE 0 5%	1/10W
R3540	1-216-073-00	METAL GLAZE 10K 5%	1/10W

<CONNECTOR>			
S42	*1-568-378-21	PIN, CONNECTOR 3P	
S43	*1-564-508-11	PLUG, CONNECTOR 5P	
S45	*1-564-511-71	PLUG, CONNECTOR 8P	
S46	*1-564-506-11	PLUG, CONNECTOR 3P	
S47	*1-564-506-11	PLUG, CONNECTOR 3P	

<CRYSTAL>			
X3401	1-577-082-11	VIBRATOR, CERAMIC	
X3441	1-577-364-11	VIBRATOR, CERAMIC	

REF. NO.	PART NO.	DESCRIPTION	REMARK

*A-1394-422-A U BOARD, COMPLETE			

<CAPACITOR>			
C1004	1-102-125-00	CERAMIC 0.0047MF	10% 50V
C1005	1-126-301-11	ELECT 1MF	20% 50V
C1006	1-164-096-11	CERAMIC 0.01MF	50V
C1007	1-124-598-11	ELECT 22MF	20% 25V
C1008	1-124-598-11	ELECT 22MF	20% 25V
C1010	1-124-465-00	ELECT 0.47MF	20% 50V
C1011	1-124-465-00	ELECT 0.47MF	20% 50V
C1012	1-124-465-00	ELECT 0.47MF	20% 50V
C1013	1-102-125-00	CERAMIC 0.0047MF	10% 50V
C1014	1-126-163-11	ELECT 4.7MF	20% 50V
C1016	1-126-163-11	ELECT 4.7MF	20% 50V
C1018	1-126-301-11	ELECT 1MF	20% 50V
C1020	1-124-242-00	ELECT 33MF	20% 25V
C1021	1-124-465-00	ELECT 0.47MF	20% 50V
C1022	1-124-242-00	ELECT 33MF	20% 25V
C1026	1-102-949-00	CERAMIC 12PF	5% 50V
C1027	1-102-949-00	CERAMIC 12PF	5% 50V
C1028	1-124-242-00	ELECT 33MF	20% 25V
C1029	1-124-282-00	ELECT 22MF	20% 16V
C1030	1-124-478-11	ELECT 100MF	20% 25V
C1031	1-102-963-00	CERAMIC 33PF	5% 50V
C1033	1-124-598-11	ELECT 22MF	20% 25V
C1034	1-124-282-00	ELECT 22MF	20% 16V
C1036	1-124-282-00	ELECT 22MF	20% 16V
C1037	1-124-282-00	ELECT 22MF	20% 16V
C1039	1-124-478-11	ELECT 100MF	20% 25V
C1047	1-124-465-00	ELECT 0.47MF	20% 50V
C1048	1-126-301-11	ELECT 1MF	20% 50V
C1049	1-124-598-11	ELECT 22MF	20% 25V
C1051	1-124-465-00	ELECT 0.47MF	20% 50V
C1055	1-124-589-11	ELECT 47MF	20% 16V
C1056	1-124-499-11	ELECT 1MF	20% 50V
C1057	1-124-768-11	ELECT 4.7MF	20% 50V
C1059	1-124-499-11	ELECT 1MF	20% 50V
C1060	1-124-499-11	ELECT 1MF	20% 50V
C1061	1-124-499-11	ELECT 1MF	20% 50V
C1062	1-102-129-00	CERAMIC 0.01MF	10% 50V
C1063	1-124-768-11	ELECT 4.7MF	20% 50V
C1066	1-126-101-11	ELECT 100MF	20% 16V
<BLOCK>			
CM1002	1-466-162-31	BLOCK, COM FILTER (CFB-4)	
<DIODE>			
D1005	8-719-110-36	DIODE RD13ES-B2	
D1009	8-719-110-36	DIODE RD13ES-B2	
D1010	8-719-110-36	DIODE RD13ES-B2	
D1011	8-719-110-36	DIODE RD13ES-B2	
D1012	8-719-110-36	DIODE RD13ES-B2	
D1013	8-719-110-36	DIODE RD13ES-B2	
D1017	8-719-110-36	DIODE RD13ES-B2	
D1018	8-719-110-36	DIODE RD13ES-B2	
D1019	8-719-110-36	DIODE RD13ES-B2	
D1020	8-719-109-66	DIODE RD3.3ES-B2	
D1021	8-719-109-66	DIODE RD3.3ES-B2	



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
D1022	8-719-109-66	DIODE RD3.3ES-B2		R1059	1-249-405-11	CARBON	100 5% 1/4W
	<IC>			R1061	1-249-409-11	CARBON	220 5% 1/4W
IC1002	8-752-056-50	IC CXA1545S		R1062	1-249-441-11	CARBON	100K 5% 1/4W
IC1011	8-759-145-57	IC UPC4557C		R1063	1-249-409-11	CARBON	220 5% 1/4W
	<COIL>			R1066	1-215-437-00	METAL	4.7K 1% 1/4W
L1001	1-408-422-00	INDUCTOR 120UH		R1067	1-215-437-00	METAL	4.7K 1% 1/4W
L1002	1-408-422-00	INDUCTOR 120UH		R1068	1-215-437-00	METAL	4.7K 1% 1/4W
	<TRANSISTOR>			R1069	1-215-437-00	METAL	4.7K 1% 1/4W
Q1009	8-729-119-78	TRANSISTOR 2SC2785-HFE		R1070	1-249-411-11	CARBON	330 5% 1/4W
Q1010	8-729-119-78	TRANSISTOR 2SC2785-HFE		R1071	1-249-431-11	CARBON	15K 5% 1/4W
Q1016	8-729-119-76	TRANSISTOR 2SA1175-HFE		R1073	1-249-431-11	CARBON	15K 5% 1/4W
Q1017	8-729-119-76	TRANSISTOR 2SA1175-HFE		R1077	1-249-418-11	CARBON	1.2K 5% 1/4W
Q1018	8-729-141-26	TRANSISTOR 2SC3622A-LK		R1078	1-249-418-11	CARBON	1.2K 5% 1/4W
Q1019	8-729-119-76	TRANSISTOR 2SA1175-HFE		R1079	1-249-405-11	CARBON	100 5% 1/4W
Q1020	8-729-119-76	TRANSISTOR 2SA1175-HFE		R1080	1-215-423-00	METAL	1.2K 1% 1/4W
Q1021	8-729-119-76	TRANSISTOR 2SA1175-HFE		R1081	1-215-421-00	METAL	1K 1% 1/4W
Q1022	8-729-141-26	TRANSISTOR 2SC3622A-LK		R1089	1-249-405-11	CARBON	100 5% 1/4W
Q1023	8-729-119-78	TRANSISTOR 2SC2785-HFE		R1094	1-249-405-11	CARBON	100 5% 1/4W
Q1029	8-729-119-76	TRANSISTOR 2SA1175-HFE		R1096	1-249-405-11	CARBON	100 5% 1/4W
Q1030	8-729-119-78	TRANSISTOR 2SC2785-HFE		R1099	1-249-413-11	CARBON	470 5% 1/4W
Q1031	8-729-119-78	TRANSISTOR 2SC2785-HFE		R1110	1-249-405-11	CARBON	100 5% 1/4W
Q1032	8-729-119-76	TRANSISTOR 2SA1175-HFE		R1116	1-249-441-11	CARBON	100K 5% 1/4W
Q1033	8-729-119-76	TRANSISTOR 2SA1175-HFE		R1118	1-249-413-11	CARBON	470 5% 1/4W
Q1034	8-729-119-76	TRANSISTOR 2SA1175-HFE		R1121	1-249-441-11	CARBON	100K 5% 1/4W
	<RESISTOR>			R1133	1-249-405-11	CARBON	100 5% 1/4W
R1011	1-249-435-11	CARBON 33K 5%	1/4W	R1134	1-249-405-11	CARBON	100 5% 1/4W
R1012	1-249-434-11	CARBON 27K 5%	1/4W	R1137	1-249-411-11	CARBON	330 5% 1/4W
R1013	1-249-417-11	CARBON 1K 5%	1/4W	R1138	1-249-415-11	CARBON	680 5% 1/4W
R1014	1-249-441-11	CARBON 100K 5%	1/4W	R1139	1-249-413-11	CARBON	470 5% 1/4W
R1015	1-249-425-11	CARBON 4.7K 5%	1/4W	R1140	1-249-413-11	CARBON	470 5% 1/4W
R1016	1-249-441-11	CARBON 100K 5%	1/4W	R1141	1-249-413-11	CARBON	470 5% 1/4W
R1017	1-249-405-11	CARBON 100 5%	1/4W	R1142	1-249-415-11	CARBON	680 5% 1/4W
R1018	1-249-427-11	CARBON 6.8K 5%	1/4W	R1147	1-249-405-11	CARBON	100 5% 1/4W
R1019	1-249-427-11	CARBON 6.8K 5%	1/4W	R1148	1-249-405-11	CARBON	100 5% 1/4W
R1023	1-249-405-11	CARBON 100 5%	1/4W	R1149	1-249-417-11	CARBON	1K 5% 1/4W
R1026	1-249-425-11	CARBON 4.7K 5%	1/4W	R1150	1-249-405-11	CARBON	100 5% 1/4W
R1028	1-249-434-11	CARBON 27K 5%	1/4W	R1151	1-249-405-11	CARBON	100 5% 1/4W
R1029	1-249-435-11	CARBON 33K 5%	1/4W	R1152	1-249-417-11	CARBON	1K 5% 1/4W
R1030	1-249-417-11	CARBON 1K 5%	1/4W		<CONNECTOR>		
R1032	1-249-417-11	CARBON 1K 5%	1/4W	U12	1-573-300-11	CONNECTOR, BOARD TO BOARD 18P	
R1033	1-249-393-11	CARBON 10 5%	1/4W	U13	1-573-300-11	CONNECTOR, BOARD TO BOARD 18P	
R1034	1-249-417-11	CARBON 1K 5%	1/4W	U16	*1-564-513-11	PLUG, CONNECTOR 10P	
R1036	1-249-440-11	CARBON 82K 5%	1/4W	U22	1-566-942-11	CONNECTOR, HINGE (RECEPTACLE) 30P	
R1037	1-249-440-11	CARBON 82K 5%	1/4W	U23	*1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)	
R1038	1-249-440-11	CARBON 82K 5%	1/4W	U47	*1-564-506-11	PLUG, CONNECTOR 3P	
R1043	1-249-417-11	CARBON 1K 5%	1/4W	*****			
R1046	1-249-413-11	CARBON 470 5%	1/4W	*A-1394-432-A UT BOARD, COMPLETE			
R1048	1-249-405-11	CARBON 100 5%	1/4W	*****			
R1050	1-249-405-11	CARBON 100 5%	1/4W		<CAPACITOR>		
R1051	1-249-417-11	CARBON 1K 5%	1/4W	C1152	1-102-074-00	CERAMIC 0.001MF	10% 50V
R1052	1-249-413-11	CARBON 470 5%	1/4W	C1154	1-164-096-11	CERAMIC 0.01MF	50V
R1054	1-249-405-11	CARBON 100 5%	1/4W	C1155	1-126-103-11	ELECT 470MF	20% 16V
R1055	1-249-413-11	CARBON 470 5%	1/4W	C1158	1-124-598-11	ELECT 22MF	20% 25V
R1056	1-249-405-11	CARBON 100 5%	1/4W	C1160	1-124-598-11	ELECT 22MF	20% 25V
R1057	1-249-441-11	CARBON 100K 5%	1/4W	C1161	1-124-598-11	ELECT 22MF	20% 25V
				C1164	1-126-103-11	ELECT 470MF	20% 16V
				C1165	1-126-301-11	ELECT 1MF	20% 50V
				C1166	1-126-301-11	ELECT 1MF	20% 50V
				C1167	1-126-301-11	ELECT 1MF	20% 50V

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

Les composants identifiés par une trame et une marque **Δ** sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by **Δ** in this manual 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.

KP-41EXR96
RM-Y112A

UT

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C1168	1-126-301-11	ELECT	1MF 20%	50V			
C1199	1-102-129-00	CERAMIC	0.01MF 10%	50V			
C1200	1-102-129-00	CERAMIC	0.01MF 10%	50V			
<DIODE>							
D1152	8-719-110-36	DIODE RD13ES-B2					
D1158	8-719-110-36	DIODE RD13ES-B2					
D1159	8-719-110-36	DIODE RD13ES-B2					
D1160	8-719-110-36	DIODE RD13ES-B2					
D1163	8-719-110-36	DIODE RD13ES-B2					
D1164	8-719-110-36	DIODE RD13ES-B2					
D1165	8-719-110-36	DIODE RD13ES-B2					
D1166	8-719-110-36	DIODE RD13ES-B2					
D1167	8-719-110-36	DIODE RD13ES-B2					
D1168	8-719-110-36	DIODE RD13ES-B2					
D1169	8-719-110-36	DIODE RD13ES-B2					
D1170	8-719-110-36	DIODE RD13ES-B2					
<JACK>							
J1001	1-537-187-11	TERMINAL, PUSH (4P)					
J1003	1-573-970-11	BLOCK, (S) TERMINAL					
J1004	1-695-049-11	BLOCK, (S) TERMINAL					
J1005	1-695-054-11	JACK BLOCK, PIN					
J1006	1-573-970-11	BLOCK, (S) TERMINAL					
J1007	1-573-969-11	JACK BLOCK, PIN					
J1008	1-573-969-11	JACK BLOCK, PIN					
<RESISTOR>							
R1153	1-249-403-11	CARBON	68 5%	1/4W			
R1164	1-247-895-00	CARBON	470K 5%	1/4W			
R1165	1-247-895-00	CARBON	470K 5%	1/4W			
R1166	1-247-895-00	CARBON	470K 5%	1/4W			
R1167	1-247-895-00	CARBON	470K 5%	1/4W			
R1168	1-247-895-00	CARBON	470K 5%	1/4W			
R1169	1-249-403-11	CARBON	68 5%	1/4W			
R1170	1-249-403-11	CARBON	68 5%	1/4W			
R1171	1-247-895-00	CARBON	470K 5%	1/4W			
R1172	1-247-895-00	CARBON	470K 5%	1/4W			
R1173	1-247-804-11	CARBON	75 5%	1/4W			
R1174	1-247-895-00	CARBON	470K 5%	1/4W			
R1175	1-247-895-00	CARBON	470K 5%	1/4W			
R1176	1-247-804-11	CARBON	75 5%	1/4W			
R1178	1-247-895-00	CARBON	470K 5%	1/4W			
R1179	1-247-895-00	CARBON	470K 5%	1/4W			
R1180	1-247-804-11	CARBON	75 5%	1/4W			
R1181	1-247-804-11	CARBON	75 5%	1/4W			
R1183	1-247-895-00	CARBON	470K 5%	1/4W			
R1184	1-247-895-00	CARBON	470K 5%	1/4W			
R1185	1-247-895-00	CARBON	470K 5%	1/4W			
R1186	1-247-895-00	CARBON	470K 5%	1/4W			
R1188	1-247-804-11	CARBON	75 5%	1/4W			
R1191	1-249-425-11	CARBON	4.7K 5%	1/4W			
R1192	1-249-425-11	CARBON	4.7K 5%	1/4W			
R1193	1-249-425-11	CARBON	4.7K 5%	1/4W			
R1194	1-249-425-11	CARBON	4.7K 5%	1/4W			
R1196	1-249-426-11	CARBON	5.6K 5%	1/4W			
<SWITCH>							
S1150	1-572-198-11	SWITCH, KEYBOARD					
<CONNECTOR>							
UT11	*1-564-519-11	PLUG, CONNECTOR 4P					
UT22	*1-566-941-11	CONNECTOR, HINGE (TAB) 30P					
UT23	*1-566-641-11	CONNECTOR, HINGE (TAB) 18P					
UT35	*1-564-518-11	PLUG, CONNECTOR 3P					

MISCELLANEOUS							

Δ 1-241-744-11	RESISTOR ASSY (HIGH-VOLTAGE)						
Δ 1-451-396-21	DEFLECTION YOKE (Y936PA)						
Δ 1-452-443-13	NECK ASSY, PICTURE TUBE (NA367)						
Δ 1-453-108-11	DC BLOCK, HIGH-VOLTAGE						
1-544-768-11	SPEAKER (13CM) (COAXIAL)						
*1-555-110-00	CABLE, PIN						
1-561-306-00	JACK, PIN (F)						
1-574-590-31	LEAD ASSY, HIGH-VOLTAGE						
Δ 1-696-002-12	CORD, POWER (WITH NOISE FILTER)						
V902 Δ 8-736-631-05	PICTURE TUBE (SD-249 (G))						
V903 Δ 8-736-632-05	PICTURE TUBE (SD-249 (B))						
V901 Δ 8-736-633-05	PICTURE TUBE (SD-249 (R))						
MR900 Δ	METAL FILM			1/4W			
MR901 Δ	METAL FILM			1/4W			
MR902 Δ	METAL FILM			1/4W			

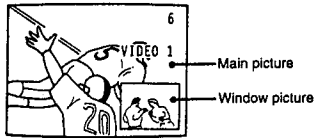
ACCESSORIES AND PACKING MATERIALS							

*3-704-356-01	SHEET (STANDARD), PROTECTION						
3-756-987-21	MANUAL, INSTRUCTION						
3-756-987-31	MANUAL, INSTRUCTION (KP-41EXR96(C))						
3-756-987-41	MANUAL, INSTRUCTION (KP-41EXR96(U))						
*4-030-895-01	JOINT						
*4-036-102-01	CUSHION (UPPER) (ASSY)						
*4-036-106-01	INDIVIDUAL CARTON						
*4-036-107-01	TRAY						
*4-036-108-01	CUSHION (LOWER) (ASSY)						
*4-381-155-01	BAG, PROTECTION						
REMOTE COMMANDER							
1-693-114-21	REMOTE COMMANDER (RM-Y112A)						
9-902 719-01	COVER (FOR RM-Y112A)						
9-998-214-01	COVER, BATTERY (FOR RM-Y112A)						

Chapter 3: Using Advanced Features

Watching Two Pictures at Once (PIP)

You can watch both the main picture and a window picture simultaneously, using the Picture-in-Picture (PIP) function. KP-41EXR96 is equipped with one-tuner PIP. To watch two TV channels simultaneously, you must first connect a VCR to the projection TV, which will enable you to watch a second TV channel through the VCR tuner. (See "Connecting Other Equipment," pp. 15–19.) Other models are equipped with two-tuner PIP, allowing you to watch two TV channels at once.



Picture-in-Picture special features

When watching the main picture and a window picture, you can:

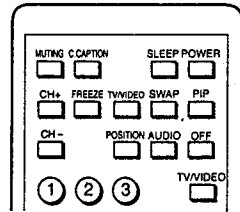
- Swap the main and window pictures (SWAP).
- Change the position of the window picture (POSITION).
- Display a still picture (FREEZE).
- Choose the sound from the main or window picture (AUDIO).

Notes

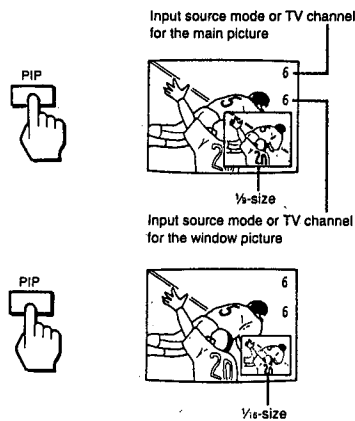
- The window picture sound is also output from the AUDIO (VAR) OUT jacks. The AUDIO OUT and MONITOR OUT jacks output the main picture sound only.
- The video label and channel caption will not appear with the window picture even if you have set them.
- If you select a blocked channel in the window picture, the display "BLOCKED" appears with the window picture. (See "Setting CHANNEL BLOCK," pp. 62–63.)

Displaying a window picture

Remote Commander



Press PIP to display a window picture



A window picture appears in the last mode you watched. Each time you press PIP, a 1/9 or 1/16 size window picture appears alternately.

To turn PIP function off
Press OFF.

The window picture disappears.

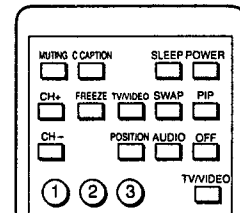
To receive the window picture sound
Press AUDIO.

The display appears for a few seconds, indicating that the window picture sound is being received.

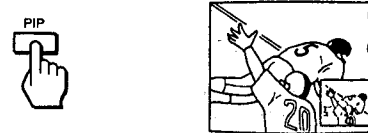
To restore the main picture sound
Press AUDIO again.

Changing the window picture input mode

Remote Commander



1 Press PIP to display a window picture.



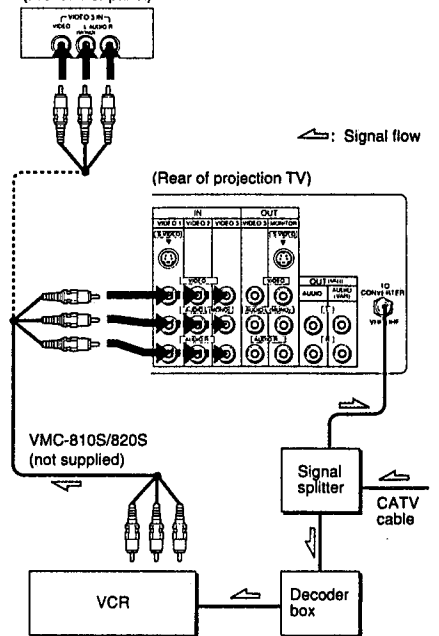
2 Press TV/VIDEO in the Picture-in-Picture control area to select the input mode. Each time you press TV/VIDEO, "TV," "VIDEO 1," "VIDEO 2" and "VIDEO 3" appear in sequence.



To change TV channels in the window picture
Press CH +/- in the PIP control area.

Displaying CATV input as a window picture

To use Picture-in-Picture with pay cable TV input, make the connections to your cable converter box as shown below. (Front inner panel)



After making the above connections, turn the cable connection on by following the steps on pp. 26–27; then continue with the steps below.

1–2 Follow steps 1–2 in "Changing the window picture input mode" on this page to select the video input mode for your connected VCR.

3 Put your VCR on an inactive channel (channel 3 or 4).

4 Change pay cable TV channels with the decoder box.

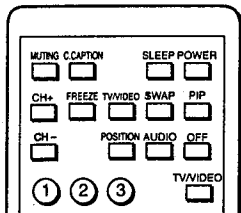
To control your cable converter box with the supplied Remote Commander
See p. 70.

Watching Two Pictures at Once (PIP)

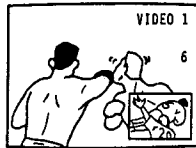
Changing the position of the window picture

Follow these instructions to change the position of the window picture on the screen.

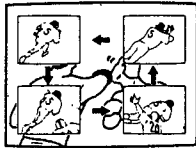
Remote Commander



1 Press PIP to display a window picture.



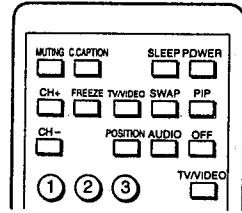
2 Press POSITION.
Each time you press POSITION, the window picture moves as illustrated.



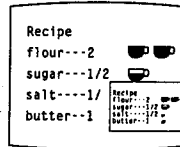
Displaying a still picture

Use the FREEZE function to display a still picture. This function is useful when you want to write down a recipe from a cooking program, a displayed address or phone number and so on.

Remote Commander



1 Press PIP to display a window picture.



2 Press FREEZE.
The window picture image remains still on the screen.

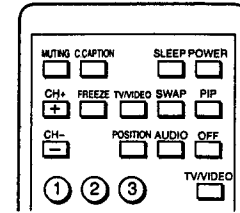


To restore the normal picture
Press FREEZE again.

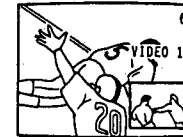
Swapping the main and window pictures

Follow these instructions to swap the input signals of the main and window pictures.

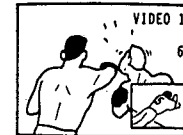
Remote Commander



1 Press PIP to display a window picture.



2 Press SWAP.
Each time you press SWAP, the images from the main and window pictures switch places.



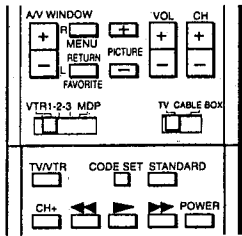
Adjusting the Projection TV

You can adjust the picture and sound for each input mode (TV, VIDEO 1, VIDEO 2, VIDEO 3) by pressing TV/VIDEO on the projection TV or on the Remote Commander to select the input mode, before making the adjustments. These adjustments are retained in memory even when you turn off the projection TV, but are cancelled after you change the adjustments, or select a picture and sound mode (pp. 38 – 39).

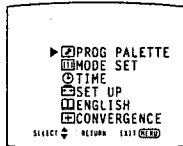
Adjusting the picture

Follow these instructions to adjust PICTURE, HUE, COLOR, BRIGHT (brightness) and SHARP (sharpness).

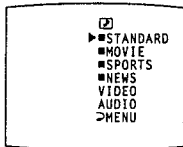
Remote Commander (with video control cover open)



1 Press MENU.
The main menu appears, and the cursor points to "PROG PALETTE."

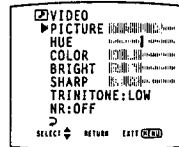


2 Press RETURN.
The program palette menu appears.



3 Press AV WINDOW +/- until the cursor points to "VIDEO."

4 Press RETURN.
The VIDEO screen appears.



5 Press AV WINDOW +/- until the cursor points to the item you want to adjust.

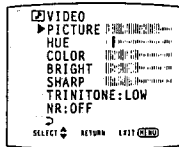
6 Press RETURN.
The adjustment screen appears.



7 Press AV WINDOW +/- to make the adjustment.

Picture quality	Press AV WINDOW -	Press AV WINDOW +
PICTURE	For decreased picture contrast with soft color	For increased picture with vivid color
HUE	Skin tones become purplish	Skin tones become greenish
COLOR	For less color intensity	For more color intensity
BRIGHT	For less brightness	For more brightness
SHARP	For less sharpness	For more sharpness

8 Press RETURN.
The adjustment is complete, and the VIDEO screen automatically reappears.



To adjust other items
Repeat steps 5 – 8.

To restore the factory settings for all the items
Select "STANDARD" on the program palette menu, and press RETURN;
or, press STANDARD on the Remote Commander.
All the items, including TRINITONE (p. 46) and NR (p. 47) return to their original factory settings.

To adjust picture contrast
You can also adjust picture contrast with the PICTURE +/- buttons on the Remote Commander.



Press + to increase picture contrast with vivid color.
Press - to decrease picture contrast with soft color.
The picture adjustment screen appears.

To return to the previous menu
Press AV WINDOW +/- until the cursor points to " > MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

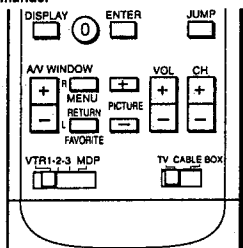
To return to the normal screen
Press MENU.

Adjusting the Projection TV

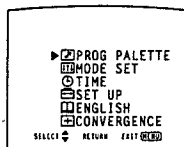
Setting the TRINITONE mode

Color picture tubes are usually manufactured with a fixed color temperature (tint) that determines the "warmth" (red tint) or "coolness" (blue tint) of the picture. Use the Sony Trinitone feature to adjust the picture color to your preference.

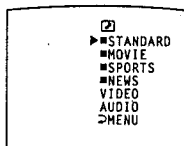
Remote Commander



- 1 Press MENU.
The main menu appears, and the cursor points to "PROG PALETTE."



- 2 Press RETURN.
The program palette menu appears.



- 3 Press AV WINDOW +/- until the cursor points to "VIDEO."

- 4 Press RETURN.
The VIDEO screen appears.



- 5 Press AV WINDOW +/- until the cursor points to "TRINITONE."

- 6 Press RETURN.
The mode display turns red.

- 7 Press AV WINDOW +/- to select "HIGH" or "LOW."

Select "HIGH" to make the picture cool (bluish).
Select "LOW" to make the picture warm (reddish).

- 8 Press RETURN.
The setting is complete.

To return to the previous menu

Press AV WINDOW +/- until the cursor points to " > MENU."

Then press RETURN.

To return to the main menu

Repeat the above, until you reach the main menu.

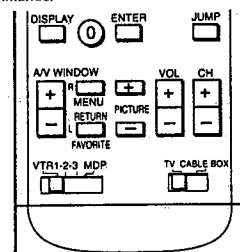
To return to the normal screen

Press MENU.

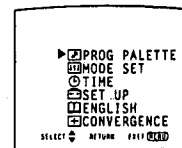
Setting NR (picture noise reduction) ON or OFF

Follow these instructions to reduce picture noise.

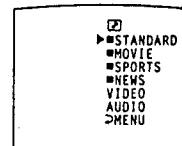
Remote Commander



- 1 Press MENU.
The main menu appears, and the cursor points to "PROG PALETTE."



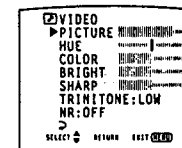
- 2 Press RETURN.
The program palette menu appears.



- 3 Press AV WINDOW +/- until the cursor points to "VIDEO."

- 4 Press RETURN.
The VIDEO screen appears.

- 5 Press AV WINDOW +/- until the cursor points to "NR."



- 6 Press RETURN.
The mode display turns red.

- 7 Press AV WINDOW +/- to select "ON" or "OFF."

Select "ON" to reduce picture noise.
Select "OFF" to restore the normal picture.

- 8 Press RETURN.
The setting is complete.

To return to the previous menu

Press AV WINDOW +/- until the cursor points to " > MENU."

Then press RETURN.

To return to the main menu

Repeat the above, until you reach the main menu.

To return to the normal screen

Press MENU.

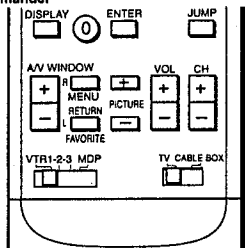
Adjusting the Projection TV

Setting S-VIDEO ON or OFF

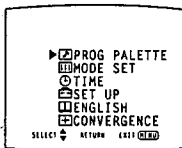
Follow these instructions to set S-VIDEO on or off, depending on the kind of video equipment you have connected to the projection TV. For instructions on connecting video equipment, see pp. 15 - 18.

Note
If the projection TV is in TV, VIDEO 2 or VIDEO 3 mode, the "S-VIDEO" display is shaded and cannot be selected. Press TV/VIDEO on the projection TV or on the Remote Commander to change to VIDEO 1 mode.

Remote Commander

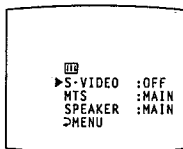


1 Press MENU.
The main menu appears.



2 Press AV WINDOW +/- until the cursor points to "MODE SET."

3 Press RETURN.
The mode set menu appears, with the cursor pointing to "S-VIDEO."



4 Press RETURN.
The mode display turns red.

5 Press AV WINDOW +/- to select "ON" or "OFF."

6 Press RETURN.
The setting is complete.

To return to the previous menu
Press AV WINDOW +/- until the cursor points to " > MENU."
Then press RETURN.

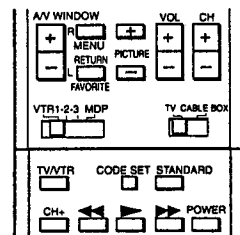
To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU.

Adjusting the sound

Follow these instructions to adjust the TREBLE, BASS and BALANCE.

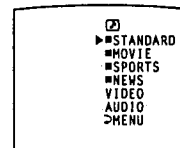
Remote Commander (with video control cover open)



1 Press MENU.
The main menu appears, and the cursor points to "PROG PALETTE."



2 Press RETURN.
The program palette menu appears.



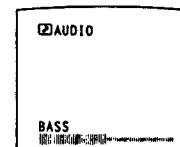
3 Press AV WINDOW +/- until the cursor points to "AUDIO."

4 Press RETURN.
The AUDIO screen appears.



5 Press AV WINDOW +/- until the cursor points to the item you want to adjust.

6 Press RETURN.
The adjustment screen appears.



7 Press AV WINDOW +/- to make the adjustment.

Sound quality	Press AV WINDOW -	Press AV WINDOW +
TREBLE	To decrease the treble response	To increase the treble response
BASS	To decrease the bass response	To increase the bass response
BALANCE	To emphasize the left speaker's volume	To emphasize the right speaker's volume

8 Press RETURN.
The adjustment is complete, and the AUDIO screen automatically reappears.



To adjust other items
Repeat steps 5 - 9.

To restore the factory settings for all the items
Select "STANDARD" on the program palette menu, and press RETURN; or, press STANDARD on the Remote Commander.
All the items, including SRS mode (p. 50) return to their original factory settings.

To return to the previous menu
Press AV WINDOW +/- until the cursor points to " > MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU.

Adjusting the Projection TV

Selecting an SRS (Sound Retrieval System) mode

For lifelike sound reproduction, follow the instructions below to select the SRS mode you prefer.

In SRS AUTO mode, SRS functions in both monaural and stereo modes.

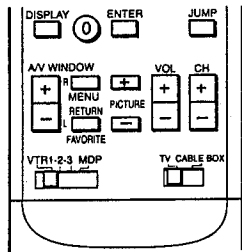
Monaural sound programs will have a 'simulated stereo' effect.

In SRS STEREO mode, SRS functions only when a stereo program is received.

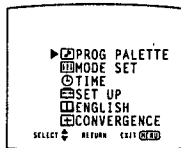
The STEREO lamp on the TV lights up whenever a stereo broadcast is received.

Select SRS OFF mode to return to normal sound mode.

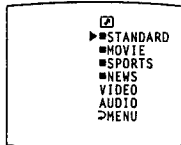
Remote Commander



- 1 Press MENU.
The main menu appears, and the cursor points to "PROG PALETTE."



- 2 Press RETURN.
The program palette menu appears.



- 3 Press A/V WINDOW +/- until the cursor points to "AUDIO."

- 4 Press RETURN.
The AUDIO screen appears.



- 5 Press A/V WINDOW +/- until the cursor points to the SRS mode you want.

- 6 Press RETURN.
The mode is selected.

To change the SRS mode
Repeat steps 5 - 6.

To return to the previous menu
Press A/V WINDOW +/- until the cursor points to " > MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU.

Selecting an MTS (Multichannel TV Sound) mode

Follow these instructions to select an MTS mode.

Select MAIN mode to listen to stereo sound.

The STEREO lamp on the projection TV lights up whenever a stereo broadcast is received.

Select SAP mode to listen to Second Audio Programs.

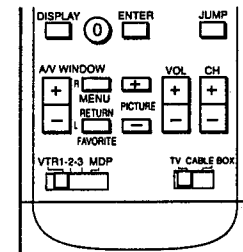
Select MONO mode to eliminate excessive noise during stereo broadcasts, caused by a weak incoming signal.

Note

If the projection TV is in video mode, the "MTS" display is shaded and cannot be selected.

Press TV/VIDEO on the projection TV or on the Remote Commander to change to TV mode.

Remote Commander

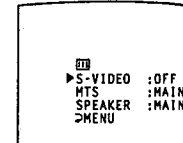


- 1 Press MENU.
The main menu appears.



- 2 Press A/V WINDOW +/- until the cursor points to "MODE SET."

- 3 Press RETURN.
The mode set menu appears.



- 4 Press A/V WINDOW +/- until the cursor points to "MTS."

- 5 Press RETURN.
The mode display turns red.

- 6 Press A/V WINDOW +/- to select the mode you want.
Each time you press A/V WINDOW +/-, "MAIN," "SAP" and "MONO" appear in sequence.

- 7 Press RETURN.
The mode is selected.

To return to the previous menu
Press A/V WINDOW +/- until the cursor points to " > MENU."
Then press RETURN.

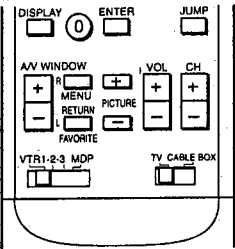
To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU.

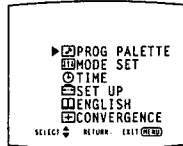
Setting SPEAKER — MAIN or CENTER

Follow these instructions to set SPEAKER to "CENTER" when you connect an audio system (p.19), and to "MAIN" when you want to listen to the sound from the projection TV speakers.

Remote Commander

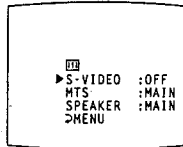


- 1 Press MENU.
The main menu appears.



- 2 Press A/V WINDOW +/- until the cursor points to "MODE SET."

- 3 Press RETURN.
The mode set menu appears.



- 4 Press A/V WINDOW +/- until the cursor points to "SPEAKER."

- 5 Press RETURN.
The mode display turns red.

- 6 Press A/V WINDOW +/- to select "MAIN" or "CENTER."

- 7 Press RETURN.
The setting is complete.

To return to the previous menu
Press A/V WINDOW +/- until the cursor points to " > MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

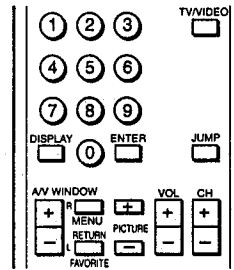
To return to the normal screen
Press MENU.

Setting channel captions — CH CAPTION

Follow these instructions to caption each channel number display with a name, for instance, the television station call letters. (You can set up to four letters or numbers).

Example: Caption channel 15 as "NBC."

Remote Commander

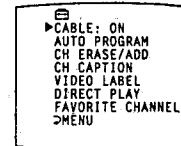


- 1 Press MENU.
The main menu appears.



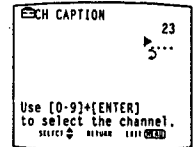
- 2 Press A/V WINDOW +/- until the cursor points to "SET UP."

- 3 Press RETURN.
The set up menu appears.

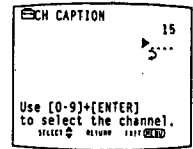


- 4 Press A/V WINDOW +/- until the cursor points to "CH CAPTION."

- 5 Press RETURN.
The CH CAPTION screen appears.

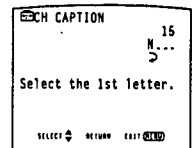


- 6 Press CH +/-, or press 1, 5 and ENTER to set channel "15."



- 7 Press RETURN.
The first caption space turns red.

- 8 Press A/V WINDOW +/- to select "N."
Each time you press A/V WINDOW +/-, "0" - "9," "A" - "Z," " < ", " > ", " < " and " < " (blank space) appear in sequence.



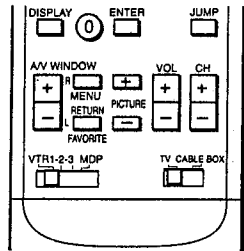
- 9 Press RETURN.
The second caption space turns red.

(Continued)

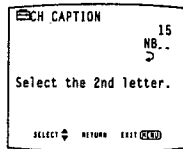
Customizing the Screen Display

Setting channel captions – CH CAPTION (Cont'd. from prev. page)

Remote Commander

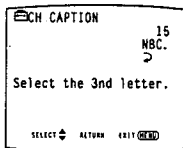


- 10** Press AV WINDOW +/- to select "B."



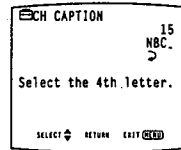
- 11** Press RETURN.
The third caption space turns red.

- 12** Press AV WINDOW +/- to select "C."



- 13** Press RETURN.
The fourth caption space turns red.

- 14** Press AV WINDOW +/- to select a blank space.



- 15** Press RETURN.
The setting is complete.
When you select or display the channel number, the channel caption also appears.

To caption more channels
Repeat steps 6 – 15.

To erase unnecessary captions
Display the CH CAPTION screen, select the channel with the caption you want to erase, and select blank spaces for the channel caption; then press RETURN.
The caption for that channel is erased.

To return to the previous menu
Press AV WINDOW +/- until the cursor points to " > MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU.

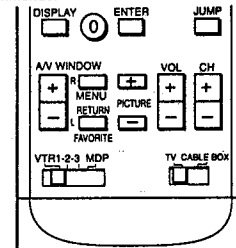
Note
You can set up to 32 channel captions. If the memory is full, "The memory is full, sorry" appears on the screen. Erase any unnecessary captions, and begin again.

Setting VIDEO LABEL

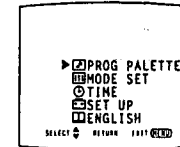
Follow these instructions to label each input mode, in order to identify the equipment connected to each input terminal.

Example: Label VIDEO 1 IN as "VHS."

Remote Commander

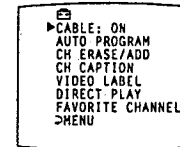


- 1** Press MENU.
The main menu appears.



- 2** Press AV WINDOW +/- until the cursor points to "SET UP."

- 3** Press RETURN.
The set up menu appears.



- 4** Press AV WINDOW +/- until the cursor points to "VIDEO LABEL."

- 5** Press RETURN.
The VIDEO LABEL screen appears.



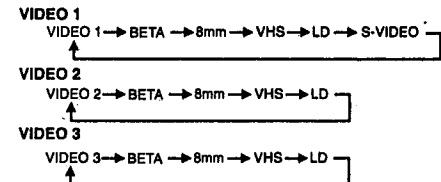
- 6** Press AV WINDOW +/- until the cursor points to the input mode you want to label. (In this case, the cursor is already pointing to "VIDEO 1.")

- 7** Press RETURN.
The label display turns red.

- 8** Press AV WINDOW +/- to select "VHS."



Each time you press AV WINDOW +/-, the label changes:



- 9** Press RETURN.
The setting is complete.
When you select or display the video mode, the video label appears.

To label other Input modes

Repeat steps 6 – 9.

To change a label
Same as above.

To return to the previous menu
Press AV WINDOW +/- until the cursor points to " > MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen
Press MENU.

Using Timer-Activated Functions



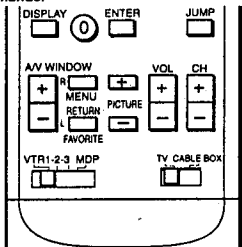
Setting DAYLIGHT SAVING

If you live in an area that uses daylight savings time, set DAYLIGHT SAVING to "YES" or "NO" depending on the season, before setting the current time. At the next daylight savings date, you will be able to automatically adjust all the time-related settings (CURRENT TIME, ON/OFF TIMER and CHANNEL BLOCK) simply by changing the DAYLIGHT SAVING setting.

When setting DAYLIGHT SAVING:

- **After the first Sunday in April (spring daylight savings)**
Set to "YES" before setting the current time.
Then, on the last Sunday in October (fall daylight savings), set to "NO."
All the time-related settings automatically move one hour back.
- **After the last Sunday in October (fall daylight savings)**
Set to "NO" before setting the current time.
Then, on the first Sunday in April (spring daylight savings), set to "YES."
All the time-related settings automatically move one hour ahead.

Remote Commander



Follow these instructions to set DAYLIGHT SAVING to "YES" or "NO."

- 1 Press MENU.
The main menu appears.



- 2 Press AV WINDOW +/- until the cursor points to "TIME."

- 3 Press RETURN.
The time menu appears.



- 4 Press AV WINDOW +/- until the cursor points to "DAYLIGHT SAVING."

- 5 Press RETURN.
The mode display turns red.

- 6 Press AV WINDOW +/- to select "YES" or "NO."

- 7 Press RETURN.
The setting is complete.

To return to the previous menu
Press AV WINDOW +/- until the cursor points to "> MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

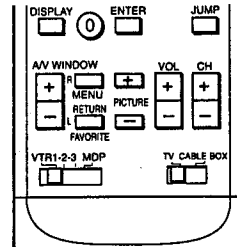
To return to the normal screen.
Press MENU.

Setting the clock — CURRENT TIME SET

Follow these instructions to set the current time. The correct current time must be set in order to use the other time-related functions (DAYLIGHT SAVING, ON/OFF TIMER, CHANNEL BLOCK).

Example: Set the time to 3:15 PM, Monday.

Remote Commander



- 1 Press MENU.
The main menu appears.



- 2 Press AV WINDOW +/- until the cursor points to "TIME."

- 3 Press RETURN.
The time menu appears, and the cursor points to "CURRENT TIME SET."



- 4 Press RETURN again.
The CURRENT TIME SET screen appears, with a reminder to set DAYLIGHT SAVING.



If you do not need to set DAYLIGHT SAVING, press RETURN and continue from step 5.

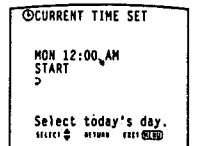
To set daylight saving

- a Press AV WINDOW +/- until the cursor points to "DAYLIGHT SAVING."
- b Press RETURN.
The time menu appears, and the cursor points to "DAYLIGHT SAVING."
- c Press RETURN.
- d Press AV WINDOW +/- to select "YES" or "NO."
- e Press RETURN.
The setting is complete.

To set the time, press AV WINDOW +/- until the cursor points to "CURRENT TIME SET"; press RETURN, then continue from step 5.

- 5 Press RETURN.
The CURRENT TIME SET screen appears, and the "SUN" display appears (red).

- 6 Press AV WINDOW +/- to select "MON."
Each time you press AV WINDOW +/-, the day changes consecutively.



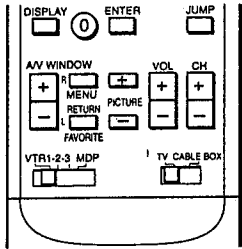
(Continued)



Setting the clock — CURRENT TIME SET

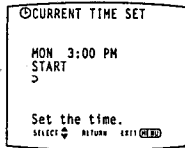
(Cont'd. from prev. page)

Remote Commander



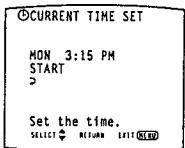
7 Press RETURN.
The hour and am/pm displays turn red.

8 Press AV WINDOW +/- to set "3:00PM."
Each time you press AV WINDOW +/-, the hour changes in sequence beginning with "12:00AM."



9 Press RETURN.
The minute display turns red.

10 Press AV WINDOW +/- to select "15" (minutes).
Each time you press AV WINDOW +/-, the minutes change in sequence.



11 Press RETURN.
The cursor points to "START."

12 Check the actual time, and press RETURN to start the clock.
The setting is complete.

To reset the time
Display the CURRENT TIME SET screen and repeat steps 5 – 12.

To display the current time
Press DISPLAY.

To return to the previous menu
Press AV WINDOW +/- until the cursor points to " > MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

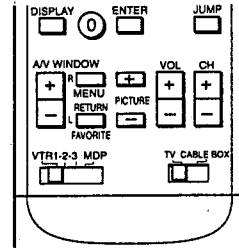
To return to the normal screen.
Press MENU.

Setting the ON/OFF TIMER

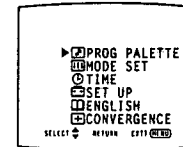
Follow these instructions to make the program of your choice appear on the screen at a specified time.

Example: Set the timer to turn on the projection TV every Monday through Friday at 1:30 AM for 3 hours, on channel 8, as PROGRAM 1. (You can set up to three programs.)

Remote Commander

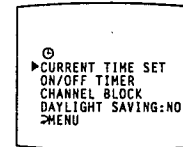


1 Press MENU.
The main menu appears.



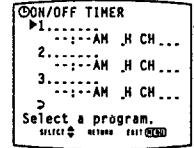
2 Press AV WINDOW +/- until the cursor points to "TIME."

3 Press RETURN.
The time menu appears.



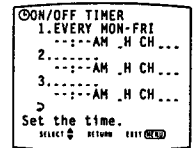
4 Press AV WINDOW +/- until the cursor points to "ON/OFF TIMER."

5 Press RETURN.
The ON/OFF TIMER screen appears, and the cursor points to "1."

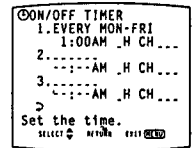


6 To set program 1, press RETURN.
(To set program 2 or 3, press AV WINDOW +/- until the cursor points to that program; then press RETURN.)
The day input space turns red.

7 Press AV WINDOW +/- to select "EVERY MON-FRI"; then press RETURN.
Each time you press AV WINDOW +/-, the days of the week change as shown in Fig. 1 (p. 61).



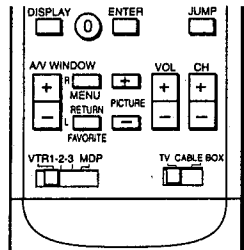
8 Press AV WINDOW +/- to select "1:00AM"; then press RETURN.
Each time you press AV WINDOW +/-, the hour changes in sequence.



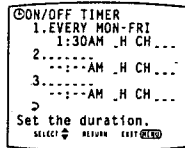
(Continued)

Setting the ON-OFF TIMER (Cont'd from prev. page)

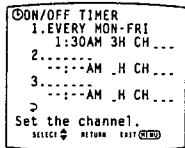
Remote Commander



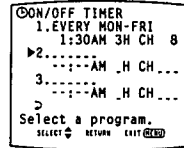
9 Press A/V WINDOW +/- to select "30" (minutes); then press RETURN.
Each time you press A/V WINDOW +/-, the minutes change in sequence.



10 Press A/V WINDOW +/- to select "3" (hour duration); then press RETURN.
Each time you press A/V WINDOW +/-, the duration changes from "1" - "6" in sequence.



11 Press A/V WINDOW +/- to select "8" (channel); then press RETURN.
The **TIMER/STAND BY** lamp lights, indicating that the setting is complete.
Each time you press A/V WINDOW +/-, the channel number changes from 1 - 125 in sequence.



The display "TIMER WILL BE OFF" appears on the screen one minute before the timer duration ends.

To set program 2 or 3.
Press RETURN and repeat steps 6 - 11.

To erase an ON/OFF TIMER setting
Display the ON/OFF TIMER screen, select the setting you want to erase, and select a blank space for the day. The ON/OFF TIMER setting is erased.

To enter a new ON/OFF TIMER setting
Display the ON/OFF TIMER screen and repeat steps 6 - 11.

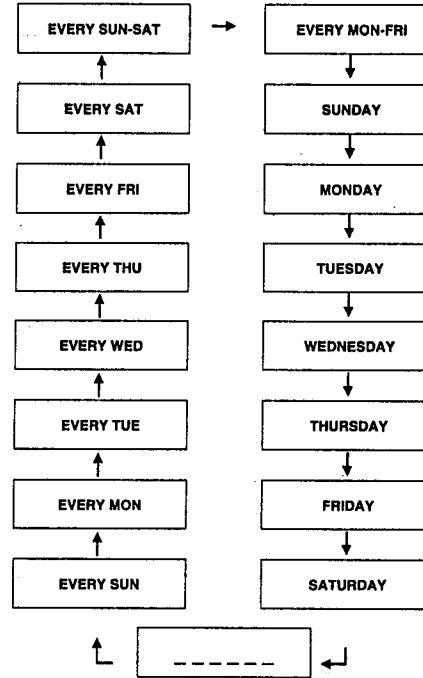
To return to the previous menu
Press A/V WINDOW +/- until the cursor points to " > MENU." Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen.
Press MENU.

Note
If you unplug the projection TV or a power failure occurs, both the clock and timer settings will be erased. Reset the current time; then set the timer.

Fig. 1
Selecting the day(s) of the week
When you press A/V WINDOW +, the days of the week appear in the following order:

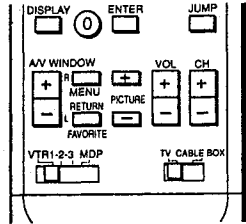


Setting CHANNEL BLOCK

Follow these instructions to prevent a channel from appearing on the screen during the time that you specify. You can use this function to prevent children from watching unsuitable programs.

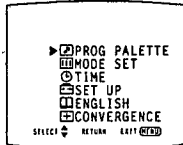
Example: Set CHANNEL BLOCK every Saturday at 4:30 PM for 1 hour, on Channel 12.

Remote Commander



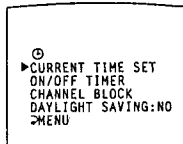
Note
If you have not set the current time, the "CHANNEL BLOCK" display is shaded and cannot be selected.

1 Press MENU.
The main menu appears.

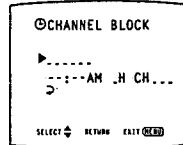


2 Press A/V WINDOW +/- until the cursor points to "TIME."

3 Press RETURN.
The time menu appears.

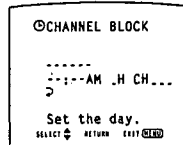


4 Press A/V WINDOW +/- until the cursor points to "CHANNEL BLOCK."

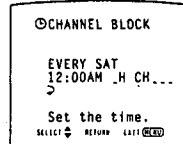


5 Press RETURN.
The CHANNEL BLOCK screen appears, and the cursor points to the day input space.

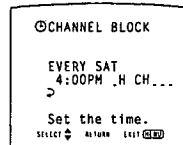
6 Press RETURN.
The day input space turns red.



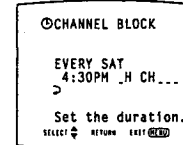
7 Press A/V WINDOW +/- to select "EVERY SAT"; then press RETURN.
Each time you press A/V WINDOW +/-, the days of the week change as shown in Fig. 1 (p. 61).



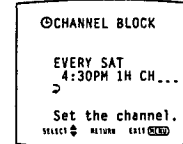
8 Press A/V WINDOW +/- to select "4:00PM"; then press RETURN.
Each time you press A/V WINDOW +/-, the hour changes in sequence.



9 Press A/V WINDOW +/- to select "30" (minutes); then press RETURN.
Each time you press A/V WINDOW +/-, the minutes change in sequence.



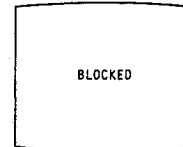
10 Press A/V WINDOW +/- to select "1" (hour duration); then press RETURN.
Each time you press A/V WINDOW +/-, the duration changes from "1" - "6" in sequence.



11 Press A/V WINDOW +/- to select "12" (channel); then press RETURN.
The setting is complete.
Each time you press A/V WINDOW +/-, the channel number changes from "1" - "125" in sequence.



At the specified time, "BLOCKED" appears in red on the screen, and the picture of the specified channel is blocked and the sound is muled.



To erase a CHANNEL BLOCK setting
Display the CHANNEL BLOCK screen and select a blank space for the day.
The CHANNEL BLOCK setting is erased.

To enter a new CHANNEL BLOCK setting
Display the CHANNEL BLOCK screen and repeat steps 4 - 10. (You can only set one CHANNEL BLOCK at a time.)

To return to the previous menu
Press A/V WINDOW +/- until the cursor points to "MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

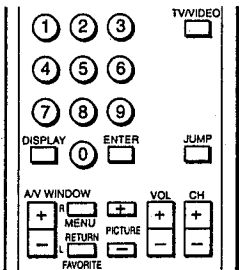
To return to the normal screen.
Press MENU.

Note
If the ON/OFF TIMER is set for an overlapping time (pp. 59 - 61), the later time setting takes precedence. For example, if CHANNEL BLOCK is set for 2:00 PM and ON/OFF TIMER is set for 3:00 PM, ON/OFF TIMER will take effect at 3:00 PM.

Setting FAVORITE CHANNEL

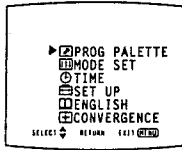
By setting FAVORITE CHANNEL, you can select the channels you use most frequently (up to seven channels) simply by pressing RETURN.

Remote Commander



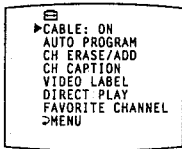
Follow these instructions to set the channels.

- 1 Press MENU.
The main menu appears.



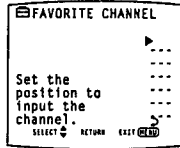
- 2 Press A/V WINDOW +/- until the cursor points to "SET UP."

- 3 Press RETURN.
The set up menu appears.



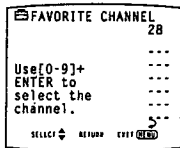
- 4 Press A/V WINDOW +/- until the cursor points to "FAVORITE CHANNEL."

- 5 Press RETURN.
The FAVORITE CHANNEL screen appears, and the cursor points to the first channel position.



- 6 Press A/V WINDOW +/- to select the channel position; then press RETURN.

- 7 Press 0 - 9 and ENTER to set the channel number.



- 8 Press RETURN.
The setting is complete.

To set other channels
Repeat steps 6 - 8.

To erase a favorite channel setting
Press A/V WINDOW +/- until the cursor points to the channel number you want to erase; press RETURN, then press 0 and ENTER.

To reset a favorite channel setting
Display the FAVORITE CHANNEL screen and repeat steps 6 - 8.

To return to the previous menu
Press A/V WINDOW +/- until the cursor points to " > MENU." Then press RETURN.

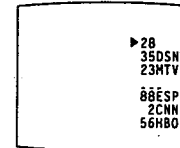
To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen.
Press MENU.

Selecting a favorite channel

After setting the channels, follow these instructions to select the channel you want to watch.

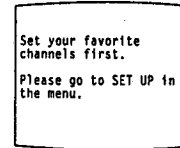
- 1 Press RETURN.
The FAVORITE CHANNEL display appears.



Note
If you have set channel captions (pp. 53 - 54), the captions appear with the channel numbers.

- 2 Press A/V WINDOW +/- to select the channel you want to watch; then press RETURN.
The channel is selected.

If you press RETURN on the Remote Commander before setting FAVORITE CHANNEL, this screen appears.



Follow steps 1 - 8 to set your favorite channels, and then make the selection.

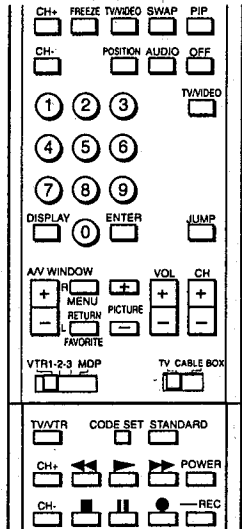
Using the Pre-Programmed Remote Commander

You can operate other video equipment (such as VCRs, video disc players and cable boxes) that have an infrared remote detector with this supplied Remote Commander.

Operating Sony video equipment

Follow these instructions to operate Sony video cassette recorders (Beta, 8 mm and VHS) and video disc players (including multi-disc players).

Remote Commander
(with video control cover open)



1 Set the VTR1-2-3 MDP selector according to the video equipment you want to operate.

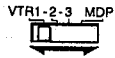


Fig. 2: Video equipment settings

If you want to operate a:	set to:
Beta, ED Beta VCR	VTR 1
8 mm VCR	VTR 2
VHS VCR	VTR 3
Video disc player	MDP

2 Use the video operating buttons to control the connected equipment.

Fig. 3: Operating a VCR (VTR1, 2, 3)

To turn on or off	Press POWER.
To change channels (when watching TV programs through the VCR's tuner)	Press CH +/-.
To record	Press ● and REC simultaneously.
To play	Press ►.
To stop	Press ■.
To fast forward	Press ►►.
To rewind the tape	Press ◄◄.
To pause	Press ▢. To resume normal playback, press again.
To search the picture forward and backward	Keep pressing ►► or ◄◄ during playback. To resume normal playback, release the button.
To change input mode	Press TV/VTR.

Fig. 4: Operating a Video Disc Player (MDP)

To turn on or off	Press POWER.
To play	Press ►.
To stop	Press ■.
To pause	Press ▢. To resume normal playback, press again. Note This function is effective only for CAV (standard-play disc). With CLV (extended-play disc), the projection TV goes off (standby mode) if you press ▢.
To search the picture forward and backward	Keep pressing ►► or ◄◄ during playback. To resume normal playback, release the button.

Notes

- If the video equipment does not have a certain function, the corresponding button on this Remote Commander will not operate.
- If you set another manufacturer's code to a VTR1-2-3 MDP selector position (pp. 68 - 69), you must also set the Sony code to operate Sony equipment.

Caution

When you replace the batteries, do so within approximately 30 minutes. Otherwise the settings you made under the Pre-Programmed function (pp. 68 - 70) may be erased.

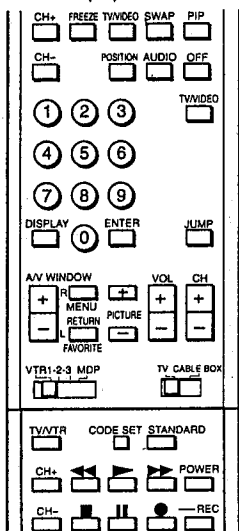
Using the Pre-Programmed Remote Commander

Operating non-Sony or Sony video equipment

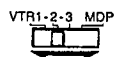
Follow these instructions to set the manufacturer's code, which will enable you to operate non-Sony and Sony video equipment with the pre-programmed Remote Commander.

Example: Operate an RCA video cassette recorder connected to the VIDEO 2 IN jacks.

Remote Commander
(with video control cover open)

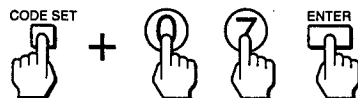


1 Set the VTR1-2-3 MDP selector to VTR2.



Note
To use another manufacturer's equipment besides a Sony VCR, set the selector to a position not being used for your Sony video equipment.

2 While pressing CODE SET, press 0, 7 and ENTER to set RCA's code number. (For manufacturer code numbers, see Figs. 5, 6 and 7 on p. 69.)



3 Use the video operating buttons to operate the connected equipment. (see Fig. 3 on p. 66 and Fig. 4 on p. 67.)

Fig. 5: VCR manufacturer code numbers

MANUFACTURER	CODE
SONY	01, 02, 03
CANON	05
EMERSON	22, 30, 33
FISHER	10, 11, 12, 15
FUNAI	29
GENERAL ELECTRIC	05, 08
GOLDSTAR	25
HITACHI	07, 08, 36
JVC	16, 35
MAGNAVOX	05, 06, 09
mitsubishi	18, 19, 26, 27
MULTITECH	29
NEC	16, 23, 31
PANASONIC	05, 06
PHILCO	05, 06
PHILIPS	05, 06, 09
QUASAR	05, 06
RCA	07, 08
SAMSUNG	24, 32
SANYO	11, 15
SCOTT	21
SHARP	13, 14
SHINTOM	34
SYLVANIA	05, 06, 09
SYMPHONIC	29
TEKNIKA	28, 29
TOSHIBA	20, 21
TOTE VISION	25
ZENITH	17

Fig. 6: MDP manufacturer code numbers

MANUFACTURER	CODE
SONY	04
KENWOOD	58
MAGNAVOX	52
MARANZ	54
MITSUBISHI	51
PANASONIC	55
PHILIPS	52
PIONEER	51
RCA	51
SANYO	57
SHARP	56
YAMAHA	53

Fig. 7: Sony Equipment and Code Numbers

SONY EQUIPMENT	CODE
Beta, ED Beta VCR	01
8 mm VCR	02
VHS VCR	03
Video disc player	04

Note
In some rare cases, you may not be able to operate your non-Sony video equipment with the supplied Remote Commander. This is because your equipment may use a code that is not provided with this Remote Commander. In this case, please use the equipment's own remote control unit.

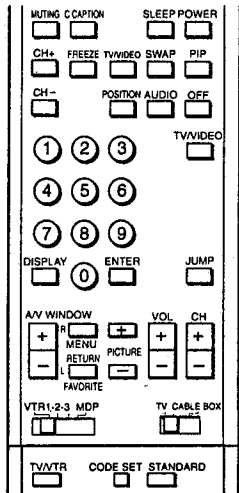
Using the Pre-Programmed Remote Commander

Operating a cable converter box

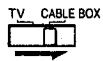
Follow these instructions to set the manufacturer's code, which will enable you to operate a connected cable converter box with the pre-programmed Remote Commander.

Example: Operate a connected Zenith cable converter box.

Remote Commander
(with video control cover open)



1 Set the TV/CABLE BOX selector to CABLE BOX.



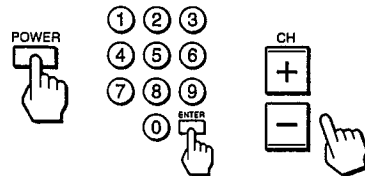
Notes

- If more than one code number is listed, try entering them one by one, until you come to the correct code for your equipment.
- If you enter a new code number, the code number you previously entered at that setting is erased.
- In some rare cases, your equipment may use a code that is not provided with this Remote Commander and you may not be able to operate your cable converter box with the supplied Remote Commander. In this case, use the equipment's own remote control unit.

2 While pressing CODE SET, press 6 and 8 (Zenith's code number — see Fig. 8) and ENTER.



3 Use the projection TV control buttons (POWER, 0-9, ENTER and CH +/-) to operate the cable converter box.



To return to the normal screen

Set the TV/CABLE BOX selector to TV; then use the projection TV control buttons to control the projection TV.

For more details on operating the cable box

Refer to the operating instructions that come with the cable box.

Fig. 8: Cable box manufacturer code numbers

MANUFACTURER	CODE
JERROLD	60, 61, 62, 63, 64, 65
PIONEER	69, 70
SCIENTIFIC ATLANTA	66, 67
TOCOM	71, 72
ZENITH	68

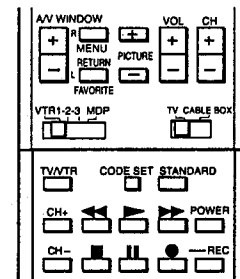
Selecting a VCR mode directly — DIRECT PLAY

Follow these instructions to switch from TV to VCR mode by simply pressing the ► (playback) button on the supplied Remote Commander.

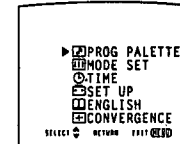
Example: Connect your VCR to the VIDEO 2 IN jacks, and set the VTR1-2-3 MDP selector to VTR2. When you press ►, the input mode changes to the VCR connected to the VIDEO 2 IN jacks.

After completing the steps below, the VTR selector position is retained in the projection TV's memory.

Remote Commander (with video control cover open)

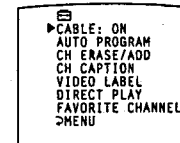


1 Press MENU.
The main menu appears.



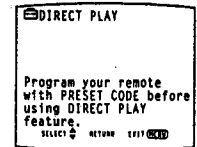
2 Press A/V WINDOW +/- until the cursor points to "SET UP."

3 Press RETURN.
The set up menu appears.



4 Press A/V WINDOW +/- until the cursor points to "DIRECT PLAY."

5 Press RETURN.
A message screen appears.



Note

This screen reminds you to set the manufacturer's code, if you have not already done so (pp. 68 - 69).

6 Press RETURN again.
The DIRECT PLAY screen appears.



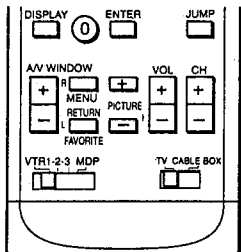
7 Press A/V WINDOW +/- until the cursor points to the video input mode. (When the video equipment is connected to VIDEO 1 IN, select "VIDEO1.")

8 Press RETURN.
The mode display turns red.

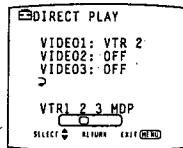
(Continued)

Selecting a VCR mode directly – DIRECT PLAY
(Cont'd. from prev. page)

Remote Commander



9 Press A/V WINDOW +/- to select the VTR selector mode you have set on the Remote Commander. (When the VTR1-2-3 MDP selector is set to VTR2, select "VTR 2.")
Each time you press A/V WINDOW +/-, "VTR 1," "VTR 2," "VTR 3," "MDP" and "OFF" appear in sequence.



10 Press RETURN.
The direct play setting is complete.

To set direct play for other connected video equipment
Repeat steps 7 – 10.



To return to the previous menu
Press A/V WINDOW +/- until the cursor points to " > MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen.
Press MENU.

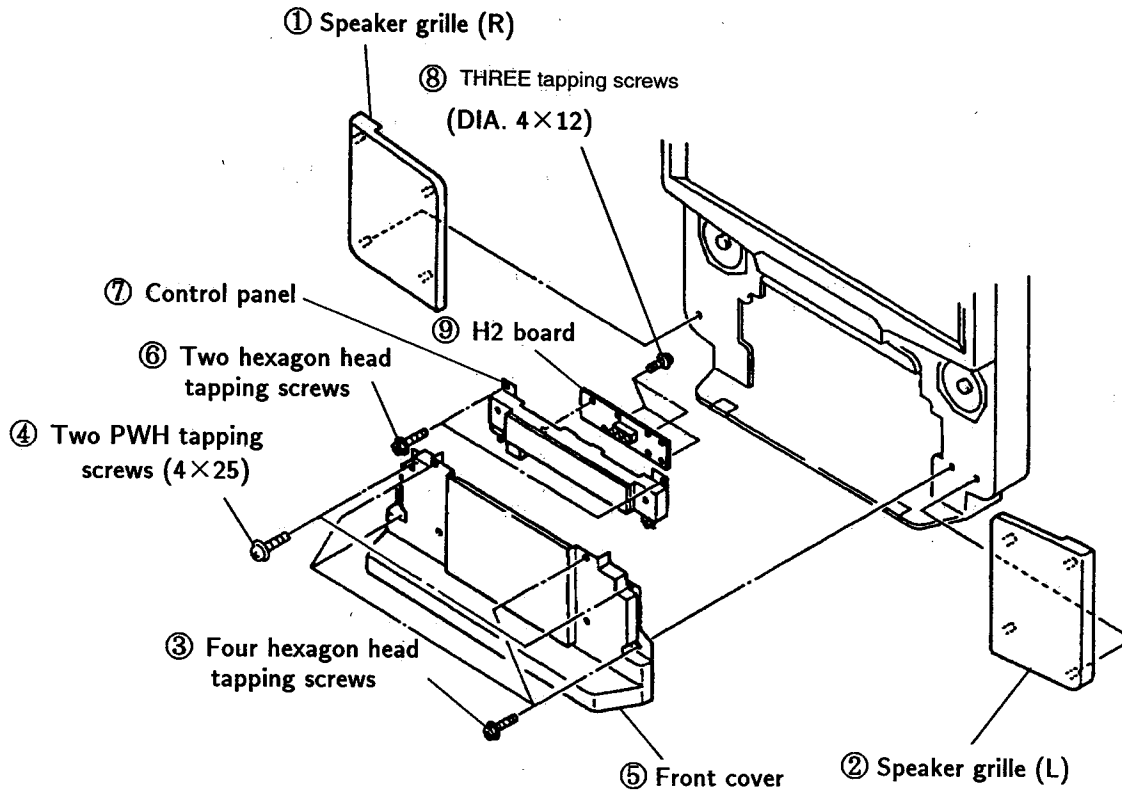
Appendix
Troubleshooting

Disturbances in picture and sound can often be eliminated by checking the symptoms and following the suggestions listed here. If the problem still cannot be solved, contact your nearest service facility.

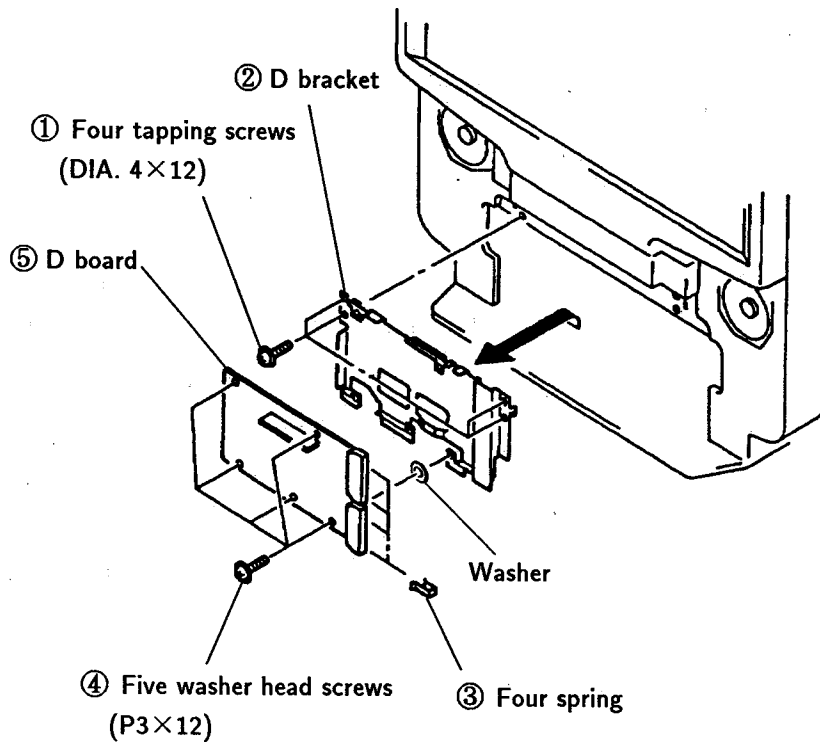
Symptom	Possible causes and remedies
No picture (screen not lit), no sound	<ul style="list-style-type: none"> • Make sure POWER is switched on. • Check the power cord connection. • Check that the TV/VIDEO and VTR1-2-3 MDP controls are set correctly. • Make sure that the TV/CABLE BOX selector is set to TV.
Poor or no picture (screen not lit), good sound	<ul style="list-style-type: none"> • Adjust the picture using the VIDEO screen (pp. 44 – 47). • Check the antenna/cable connections. • Adjust the color registration (pp. 24 – 25).
Good picture, no sound	<ul style="list-style-type: none"> • Press VOLUME + on the projection TV or VOL + on the Remote Commander. • Press MUTING on the Remote Commander. • Check the MTS setting (p. 51). • Check that the TV/VIDEO and VTR1-2-3 MDP controls are set correctly. • Make sure SPEAKER is set correctly (p. 52).
No color for color programs	<ul style="list-style-type: none"> • Check the HUE and COLOR settings (pp. 44 – 45).
Snow and noise only	<ul style="list-style-type: none"> • Check that it is an active or correct channel. • Check the cable setting. • Check antenna/cable connections.
 Dotted lines or stripes	This is often caused by local interference (for example, cars, neon signs and hairdryers). Adjust the telescopic aerial for minimum interference.
 Double images or ghosts	Reflections from nearby mountains or buildings often cause this problem. Connecting a highly directional outdoor antenna or a CATV cable may improve the picture.
Remote control does not operate	<ul style="list-style-type: none"> • Check the battery in the Remote Commander.
No picture and/or sound for the connected equipment	<ul style="list-style-type: none"> • Check that the TV/VIDEO button is set correctly. • Check that the connections are properly made. • Check that the power of the connected equipment is turned on. • Check that the connected equipment is set correctly.
Try another channel. It could be station trouble.	

SECTION 2 DISASSEMBLY

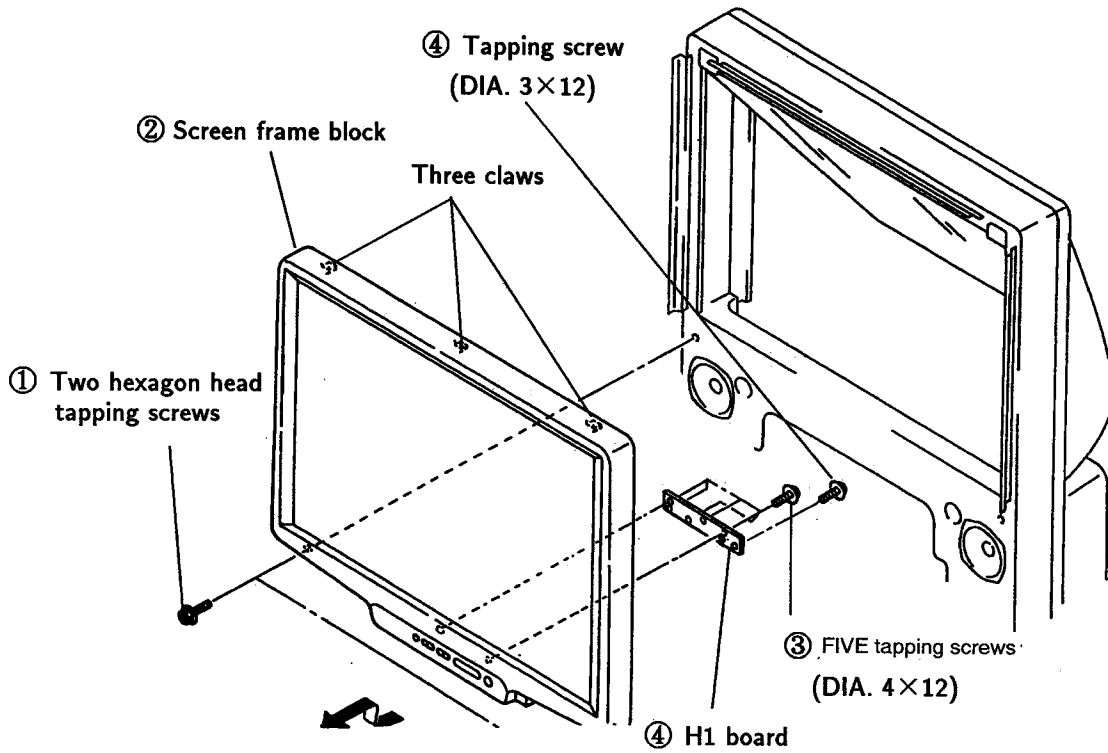
2-1. H2 BOARD REMOVAL



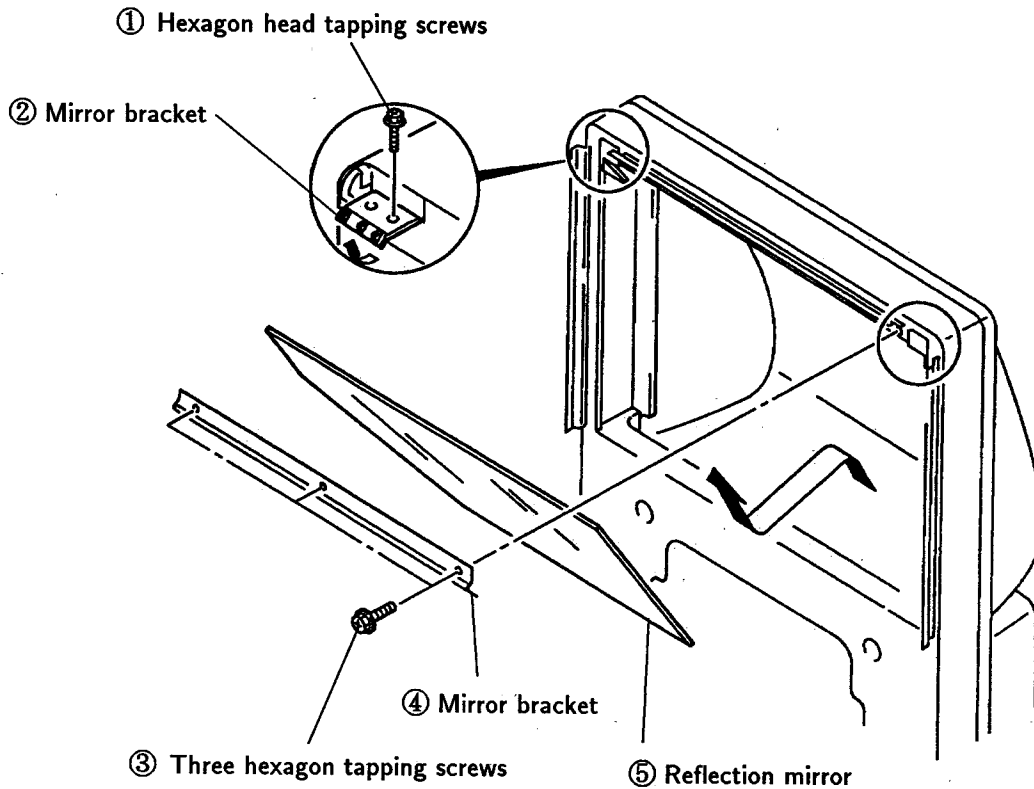
2-2. D BOARD REMOVAL



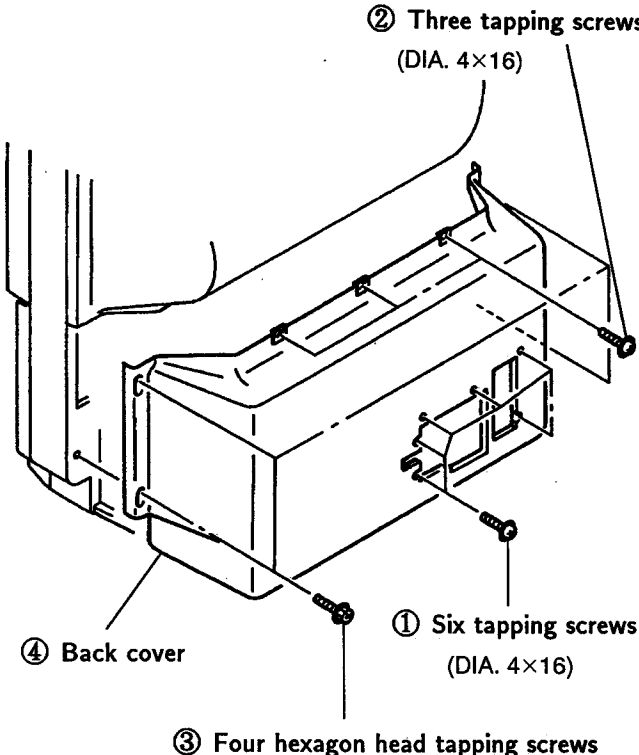
2-3. H1 BOARD REMOVAL



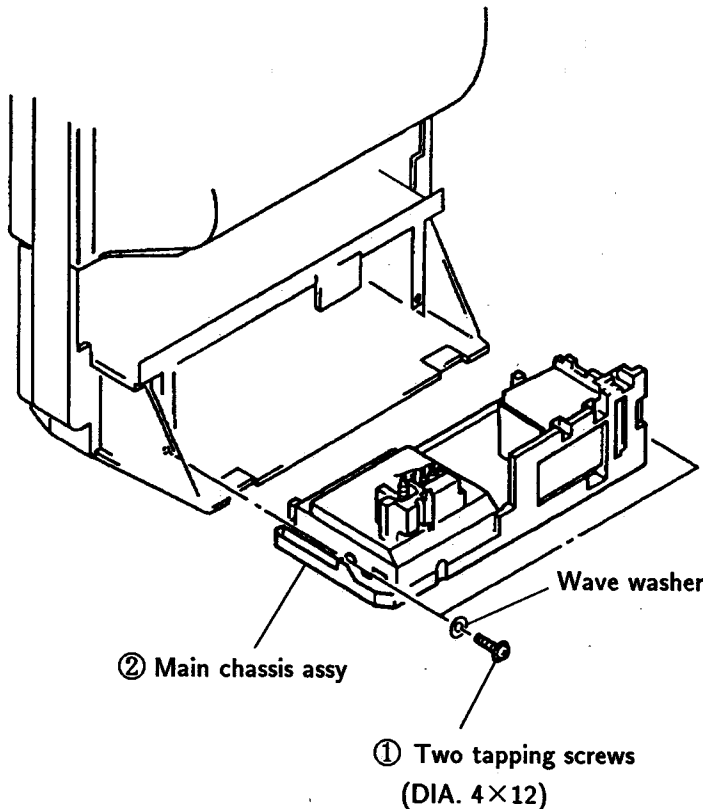
2-4. REFLECTION MIRROR REMOVAL



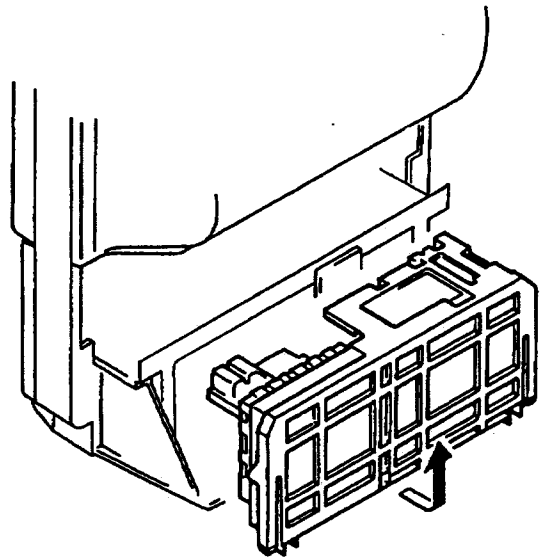
2-5. BACK COVER REMOVAL



2-6. MAIN CHASSIS ASSY REMOVAL



2-7. SERVICE POSITION



NOTES INSERTED IN SERVICE POSITION

Service Position Procedure

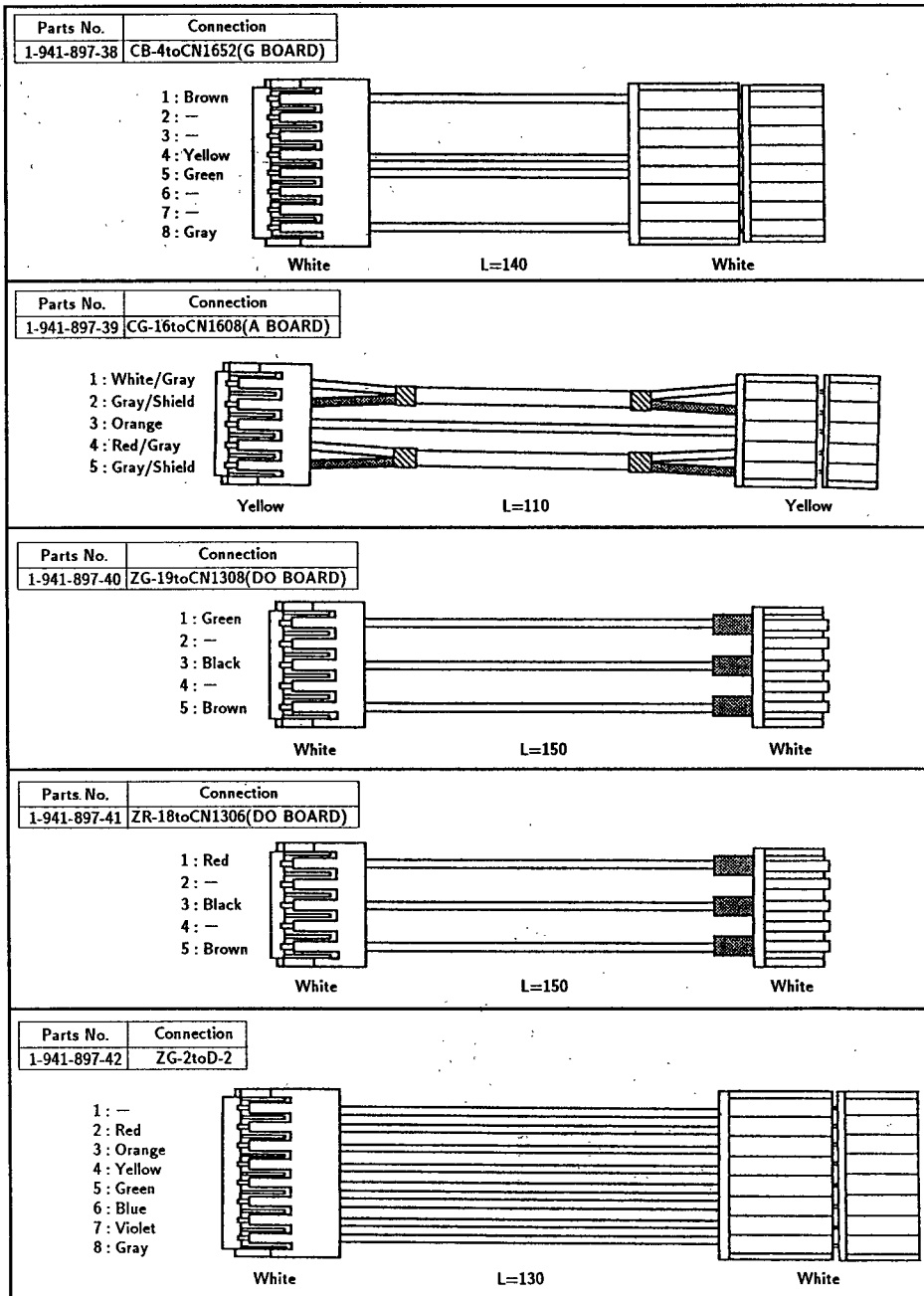
- 1) Remove the path locks where the harness comes into. (MAIN bracket, G shield)
- 2) Remove the following connectors before removing the main bracket.
 ※ HV grounding lead, G shield grounding lead, V-2 connector (V board).
- 3) Remove the main bracket. (Take care as the connector leads linking to the C and Z boards considerably short).
- 4) Before power ON, be sure to connect the connectors removed.
 ※ HV grounding lead, G shield grounding lead.

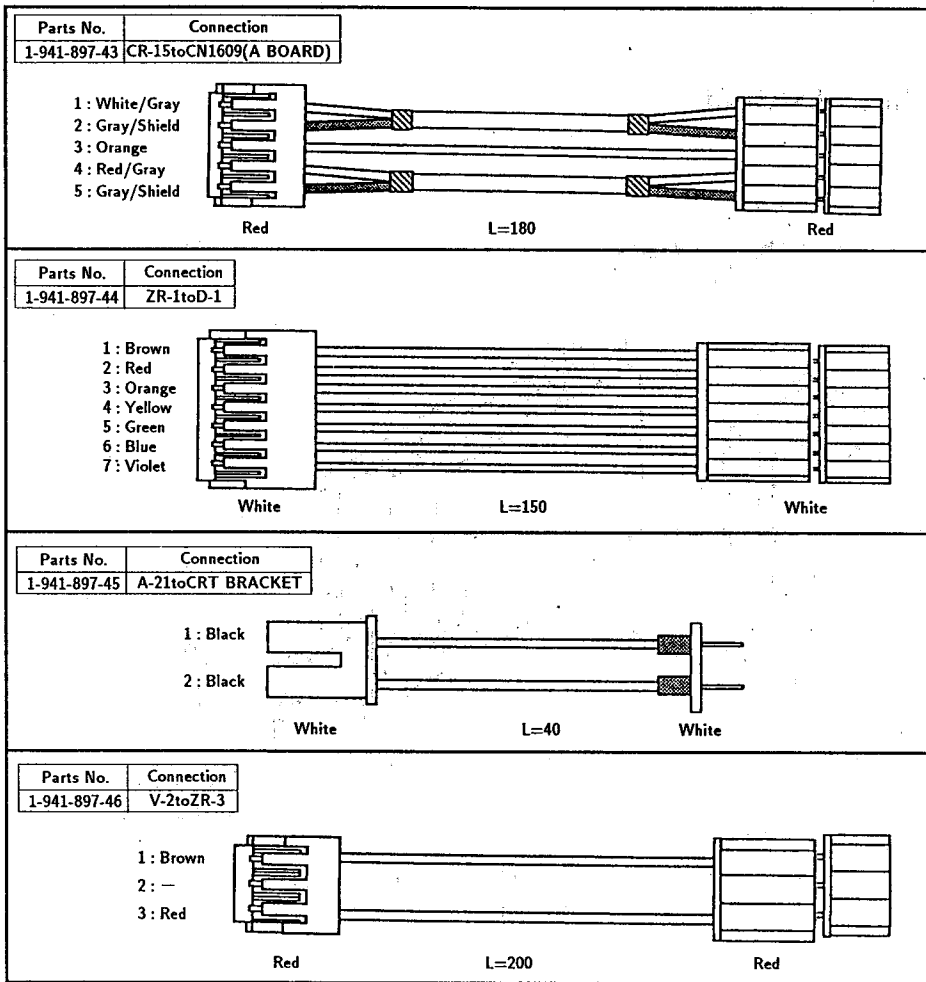
In case that grounding lead (Black) of HV Block is not connected with chassis grounding, it causes arcing of CRT and it is dangerous.

Be sure to connect grounding lead of HV Block with chassis grounding.

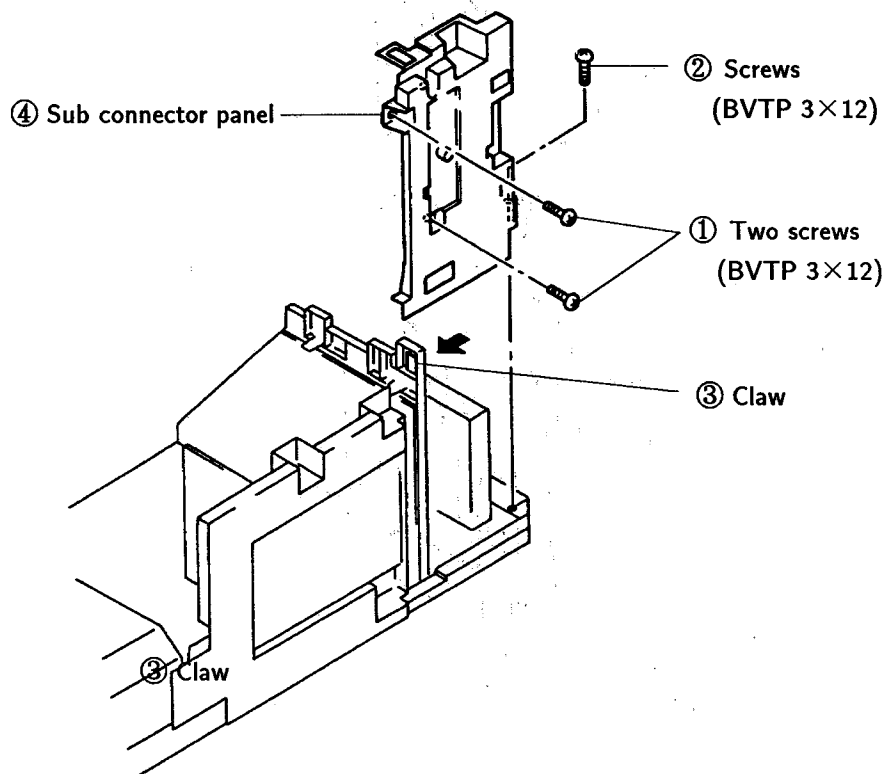
CONNECTOR CABLES

※ In order to put the set in the service position, use the extension connector cables below.

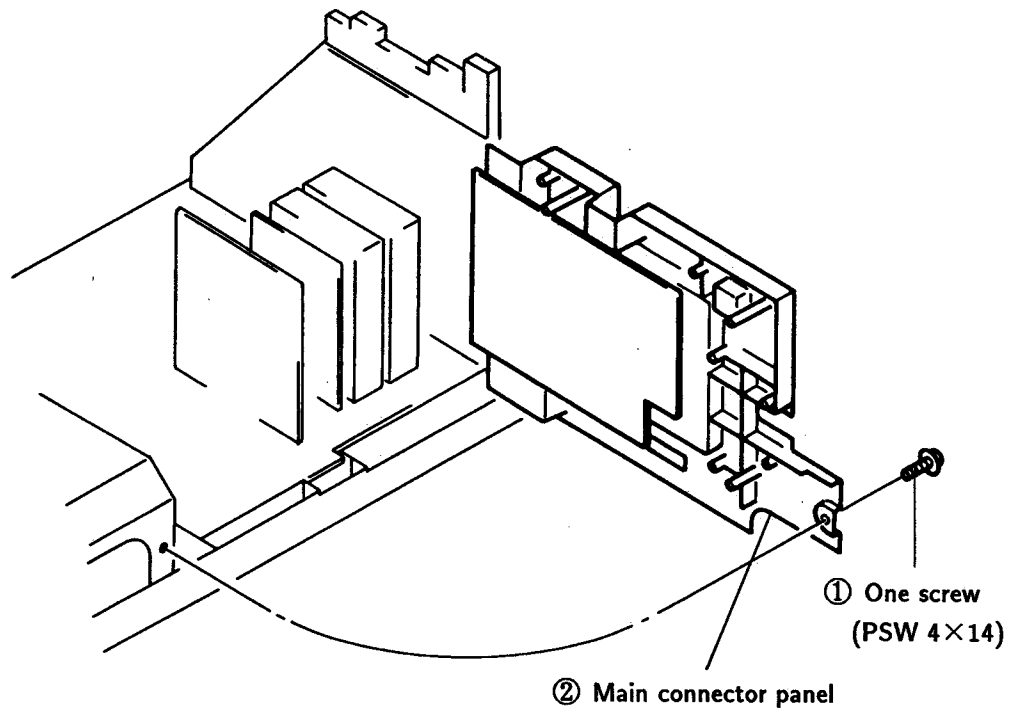




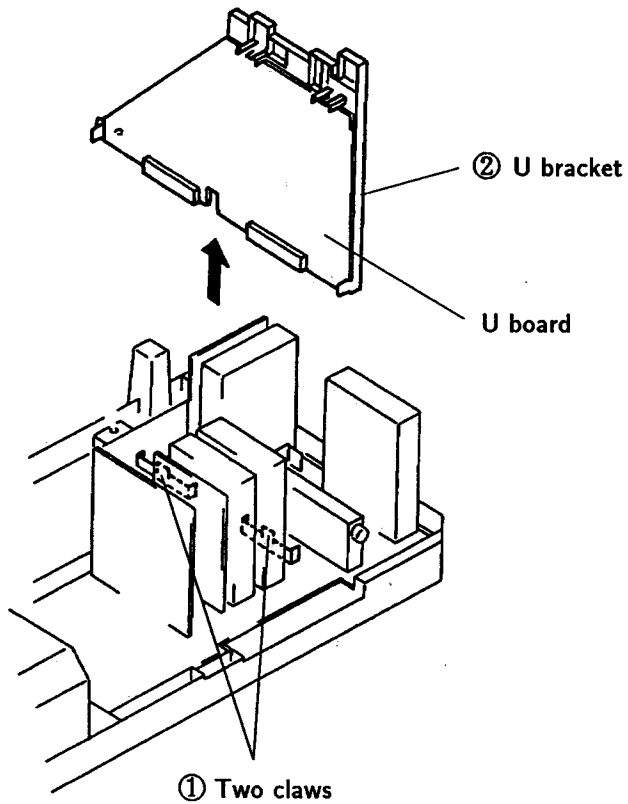
2-8. SUB CONNECTOR PANEL REMOVAL



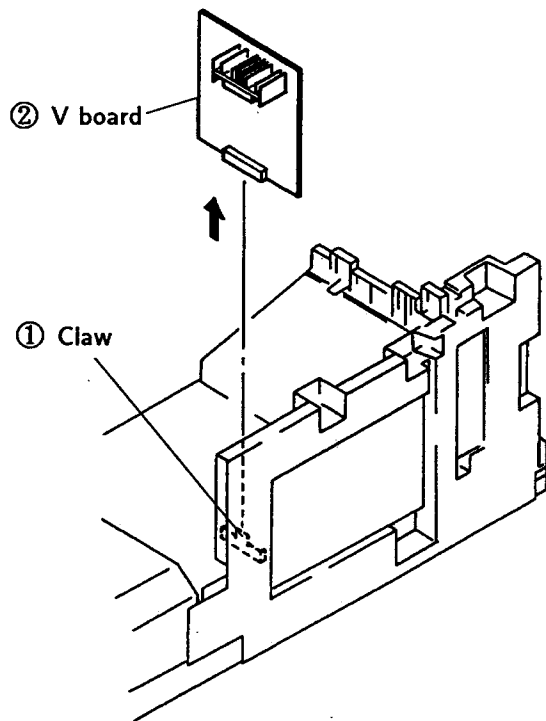
2-9. MAIN CONNECTOR PANEL REMOVAL



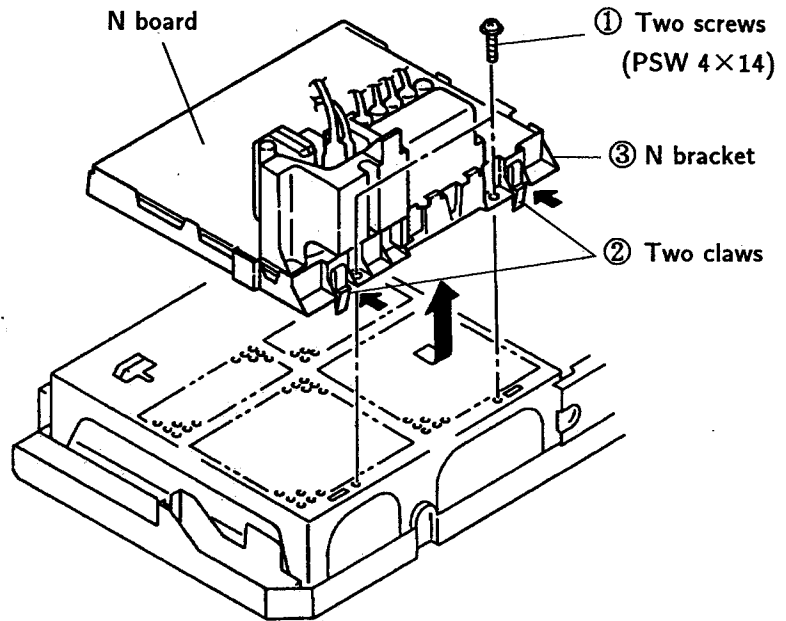
2-10. U BRACKET REMOVAL



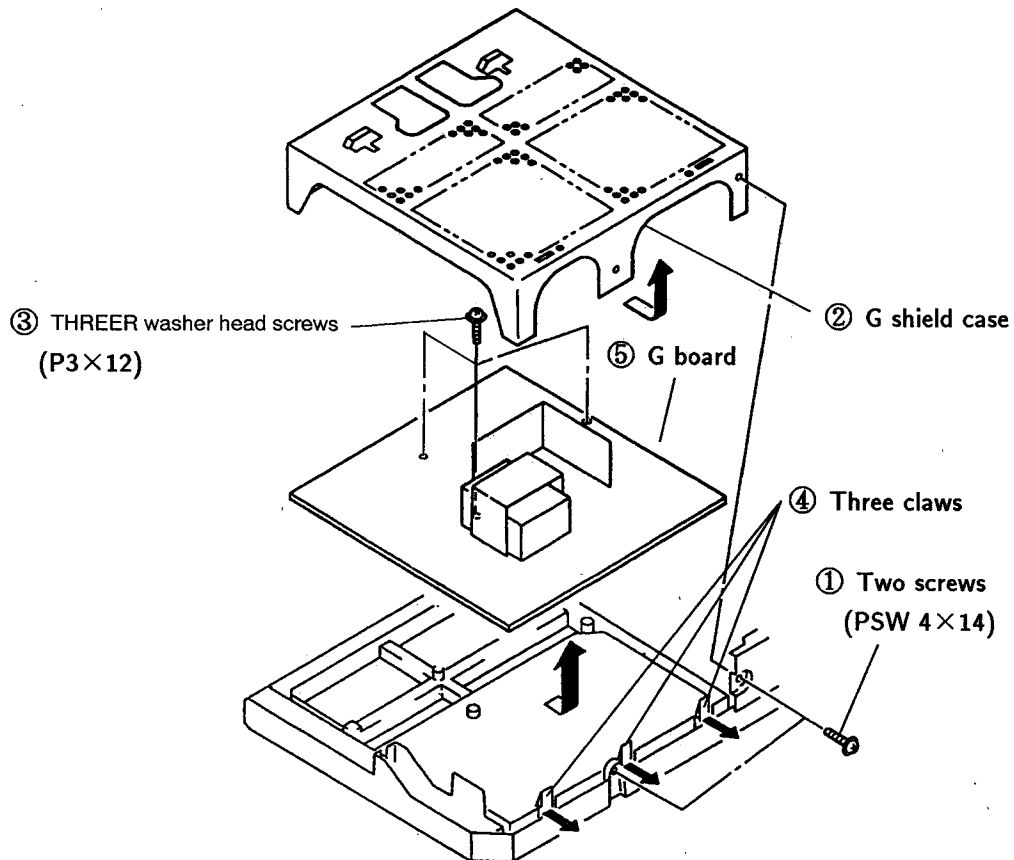
2-11. V BOARD REMOVAL



2-12. N BRACKET REMOVAL

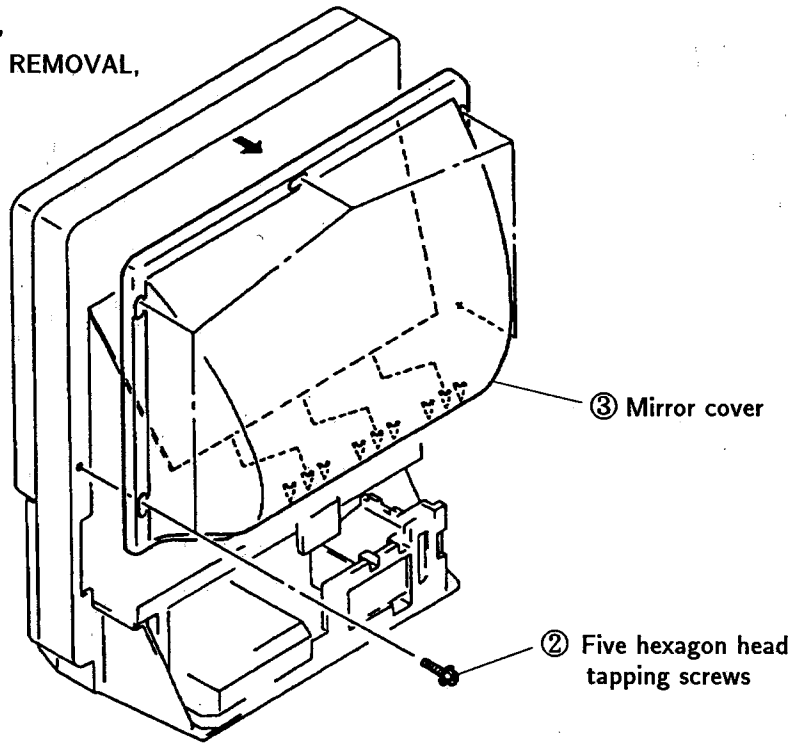


2-13. G BOARD REMOVAL

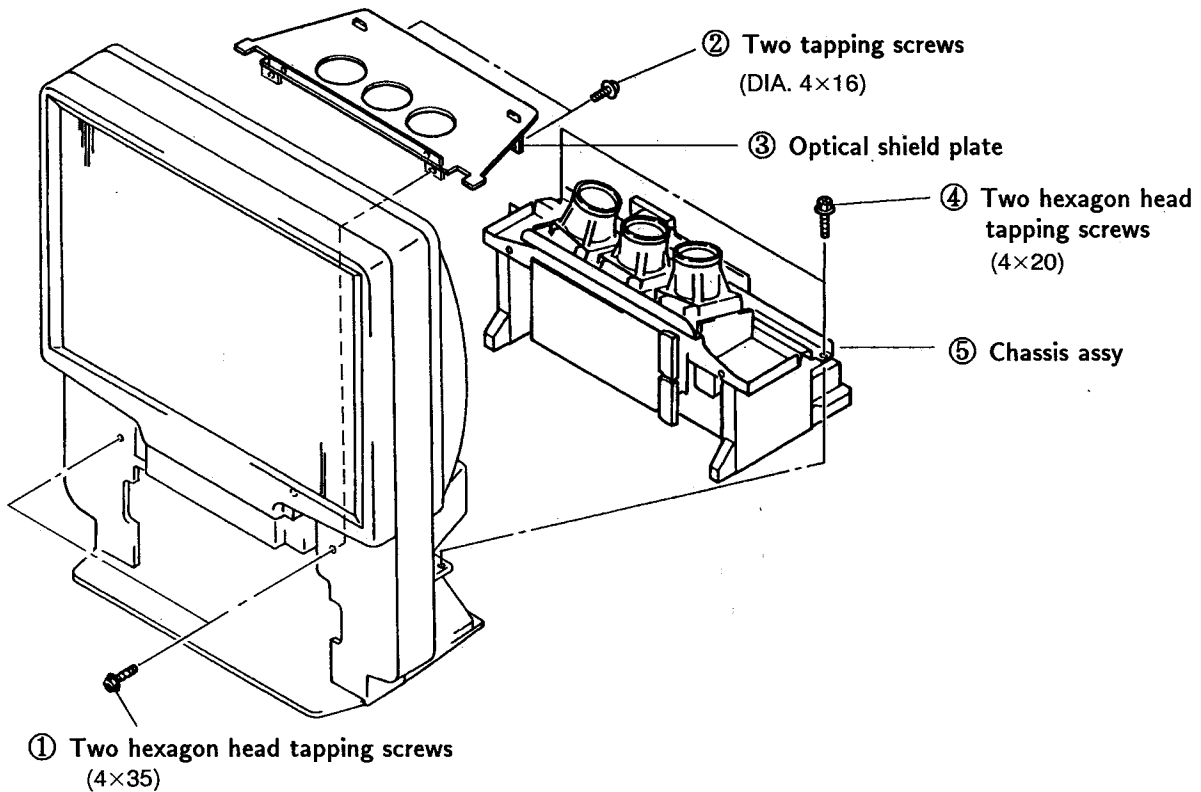


2-14. MIRROR COVER REMOVAL

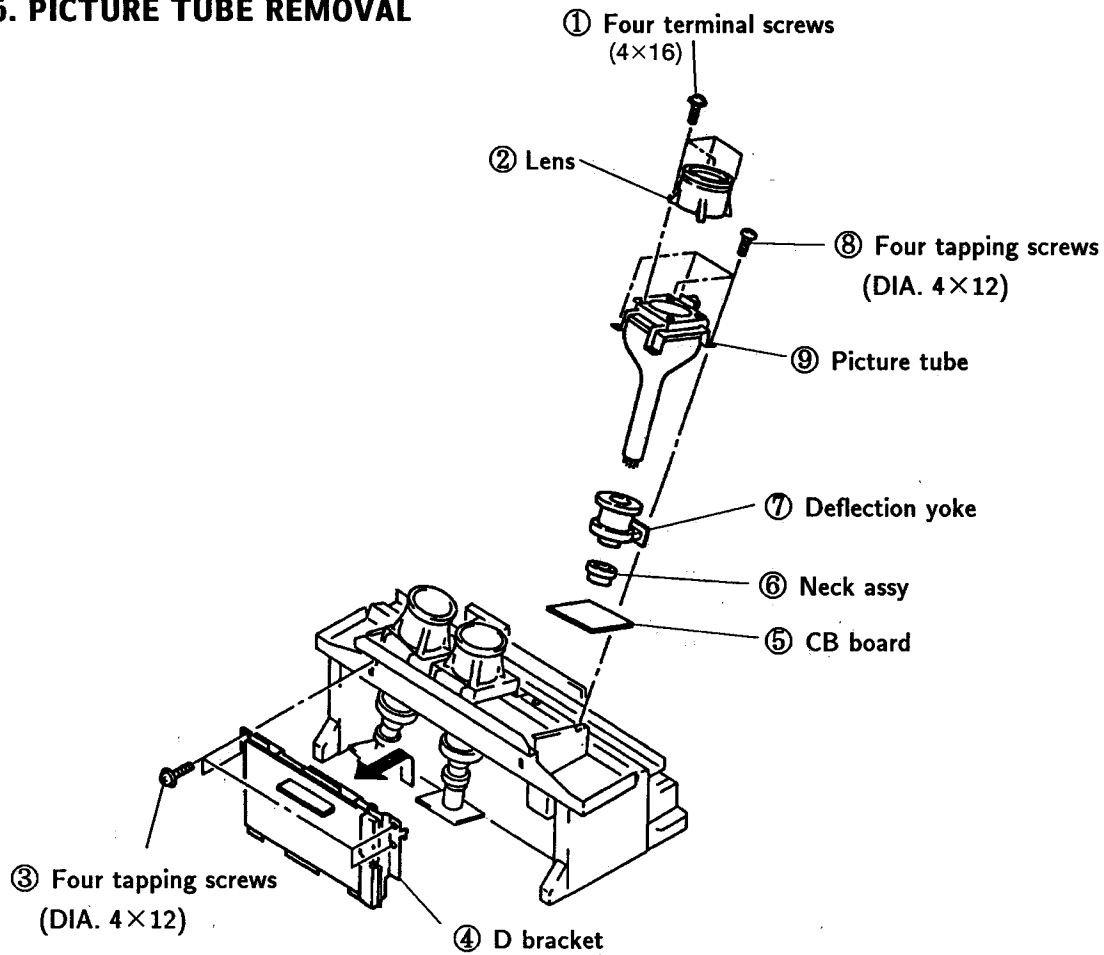
- ① 2-1 H2 BOARD REMOVAL,
- 2-3 H1 BOARD REMOVAL,
- 2-4 REFLECTION MIRROR REMOVAL,



2-15. CHASSIS ASSY REMOVAL

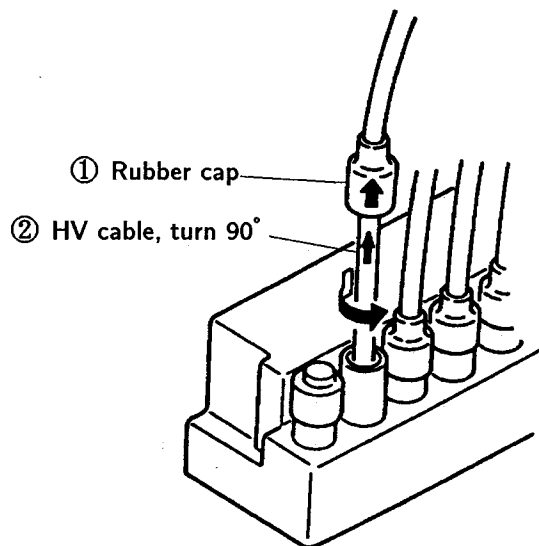


2-16. PICTURE TUBE REMOVAL

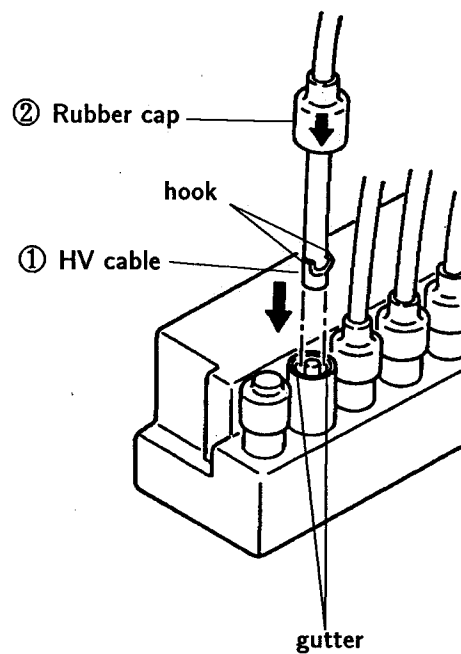


2-17. HIGH-VOLTAGE CABLE INSTALLATION AND REMOVAL

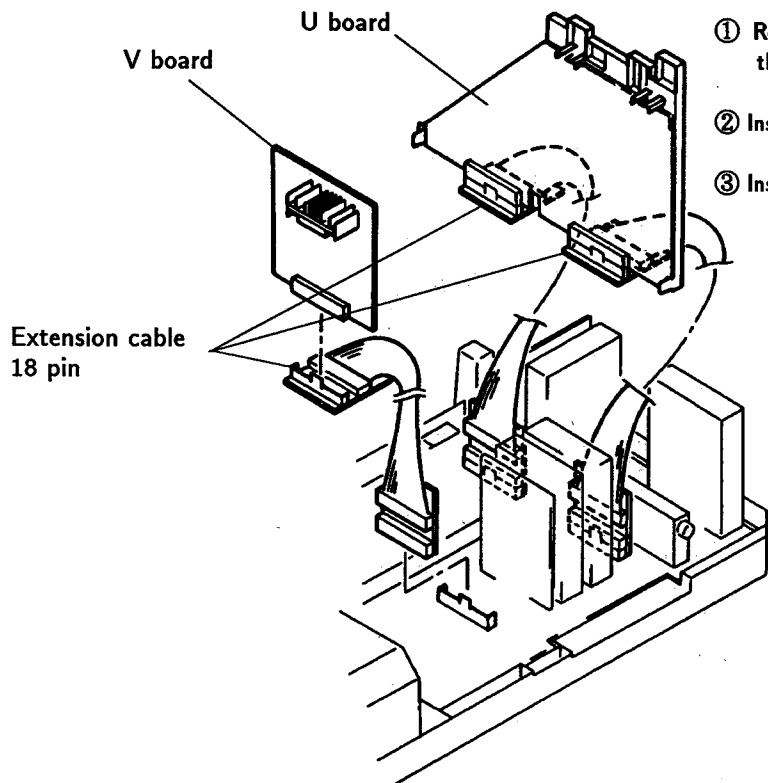
(1) Remover



(2) Installation

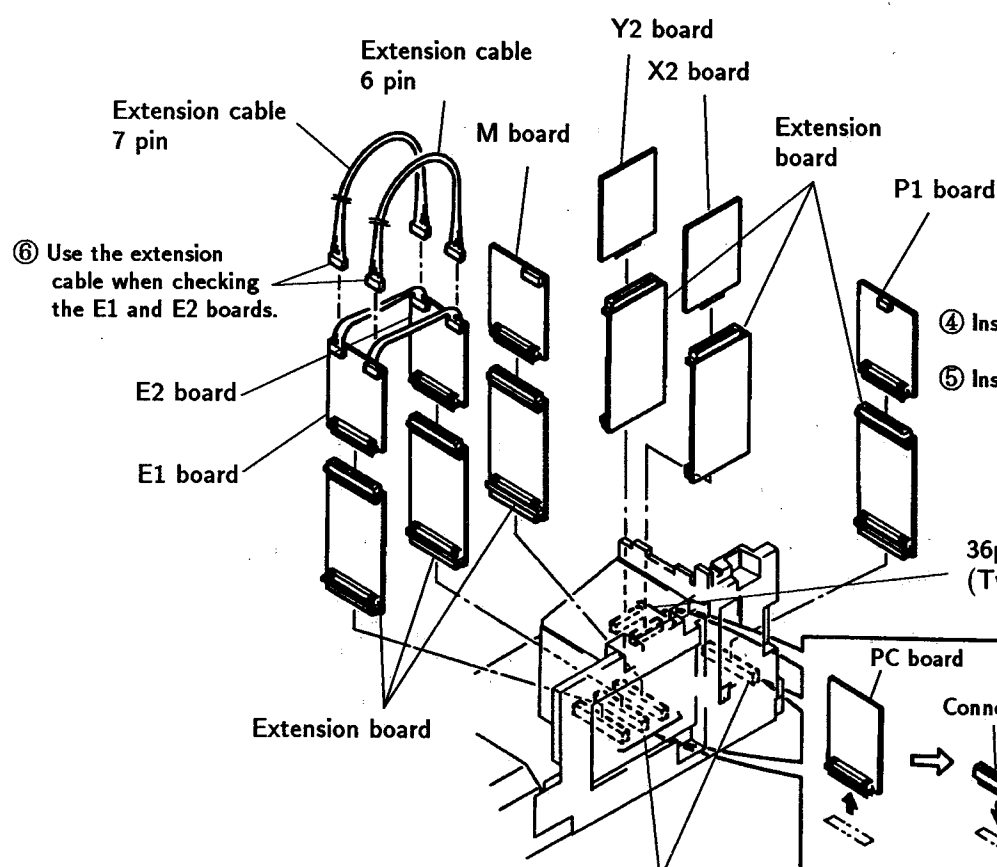


2-18. CONNECTOR CABLE



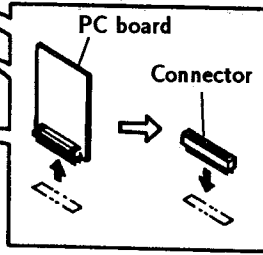
- ① Remove the board from the connector.
- ② Install the extension cable.
- ③ Install the board.

Exterior	
Extension cable	
1-941-891-33	
1-941-891-31	
1-941-891-32	
3-702-558-01	
3-702-557-01	
3-702-561-01	
3-702-560-01	
3-702-559-01	
36/50pin	Extension board



⑥ Use the extension cable when checking the E1 and E2 boards.

- ④ Install the PC board removed.
- ⑤ Install the extension board.



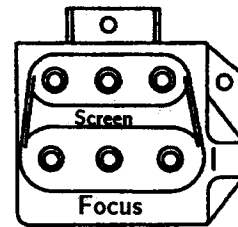
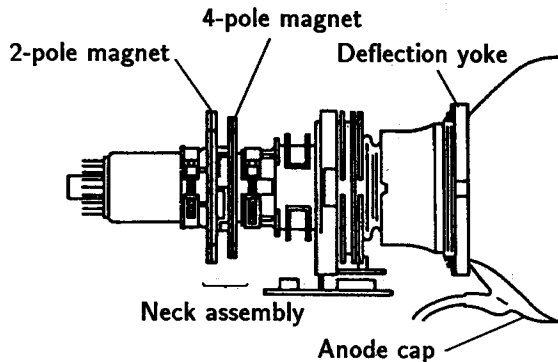
- (1) De-solder the PC board and remove it.
- (2) Solder the connector.

50pin connector (Four connector)

SECTION 3 SET-UP ADJUSTMENTS

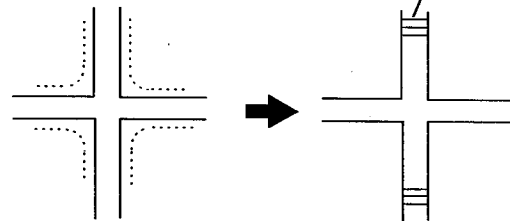
3-1. FOCUS LENS ADJUSTMENTS

1. Set the D-board registration variable resistors (VR) to mechanical center.
2. Set the centering magnets (for red, green, and blue) to 0 as shown in the figure.



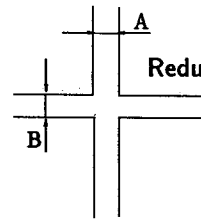
(Focus block)

Verify that scanning lines are seen.



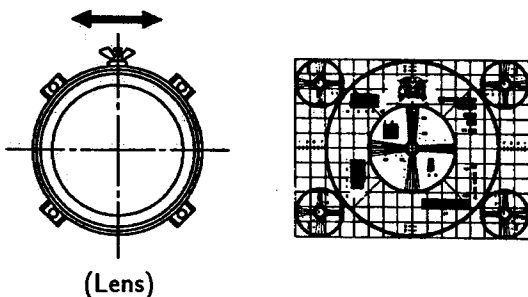
3. Input monoscope signal. Set 50% BRIGHTNESS and minimum PICTURE. Make rough adjustment so that 10IRE of the monoscope signal becomes faintly luminous using the screen VRs.
4. Set PICTURE and BRIGHTNESS maximum. Press the commander menu button. Select CONVERGENCE to display test signal.
5. Enter service mode. Select R OFF of SERVICE MODE to cut off red output. Similarly, select B OFF to cut off blue output.
6. Turn the green lens to eliminate flare of the test signal.

7. Turn the green focus VR in the focus block to adjust green focus to reduce both A and B of the test signal to minimum.



Reduce both A and B to minimum.

8. Repeat above 6 and 7. Couple of times to improve tracking and obtain an optimum focus. Then tighten the green lens screw.
9. Adjust the red and blue focuses similarly.



(Lens)

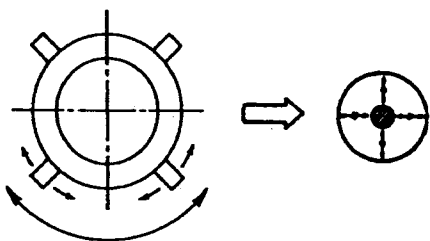
3-2. DEFLECTION YOKE POSITION ADJUSTMENTS

1. Input monoscope signal.
2. Enter service mode. Select R OFF of SERVICE MODE to cut off red output. Similarly, select B OFF to cut off blue output.
3. Loosen the deflection yoke (DY) fitting screws. Tilt the DY to obtain the best horizontal and vertical monoscope patterns.
4. After adjustment, press the DY onto the cathode ray tube (CRT) funnel and tighten the screws.
5. Also adjust DY positions for red and blue outputs in the same way.

3-3. 2-POLE MAGNET ADJUSTMENT

1. Input dot signal.
2. Enter service mode. Select R OFF of SERVICE MODE to cut off red output.
Similarly, select B OFF to cut off blue output.
3. Set PICTURE to maximum. Turn the green focus variable resistor (VR) in the focus block counterclockwise from the just focus to brighten the point in the dot.
4. Adjust the 2-pole magnet to position the bright point at the center of the dot.
5. Adjust the red and blue dots in the same way.

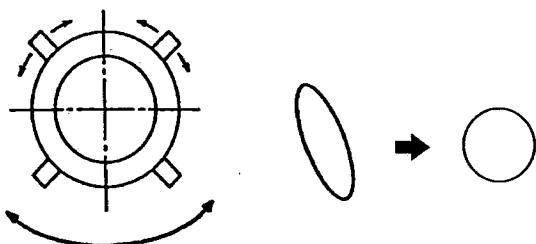
* Use the center dot:red and green
Use the vertical center and left end dot : blue



3-4. 4-POLE MAGNET ADJUSTMENT

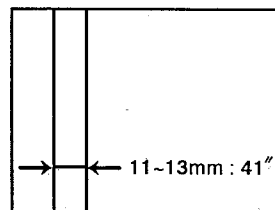
1. Input dot signal.
2. Enter service mode. Select R OFF of SERVICE MODE to cut off red output.
Similarly, select B OFF to cut off blue output.
3. Set PICTURE to maximum. Turn the green focus variable resistor (VR) in the focus block clockwise (counter clockwise : blue) from the just focus until the dot diameter becomes as shown below.
4. Adjust the 2-pole magnet to make the dot perfectly round.
5. Turn the green focus variable resistor to the just focus.
6. Adjust the red and blue dot in the same way.

* Use the center dot : red and green
Use the vertical center and left end dot : blue



3-5. DE-FOCUS ADJUSTMENT (BLUE)

1. Input cross hatch signal.
2. Turn the blue focus variable resistor (VR) in the focus block counter clock wise so that the width of the left end vertical line becomes as shown below.

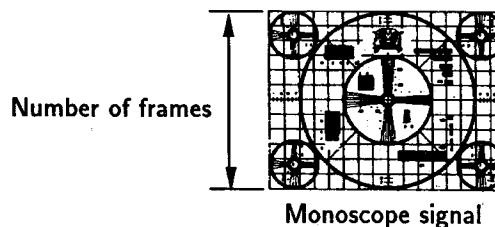


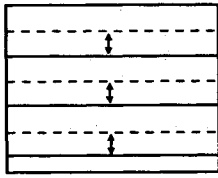
without flare

3-6. GREEN PICTURE ADJUSTMENTS

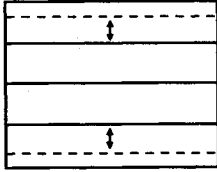
1. Input monoscope signal.
2. Enter service mode. Select R OFF of SERVICE MODE to cut off red output.
Similarly, select B OFF to cut off blue output.
3. Turn RV913 and RV960, the vertical green linearity variable resistors (V.G LIN VRs) on the D-board, to obtain an optimum vertical linearity. Then turn RV911, the vertical green amplitude variable resistor (V.G SIZE VR) to set vertical amplitude to 11.7 flames.

Note: The vertical position indicator of the monoscope signal must be positioned at the center by adjusting RV905, the vertical green center position variable resistor (V.G CENT VR) in advance.

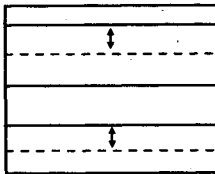




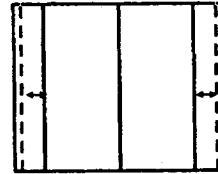
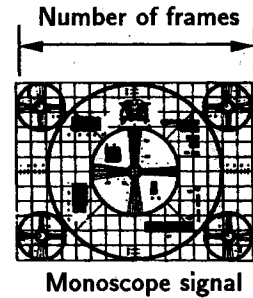

RV905 V.G CENT
(vertical position)



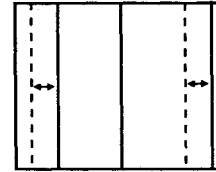

RV911 V.G SIZE
(vertical amplitude)




RV913 V.G LIN
(vertical linearity)

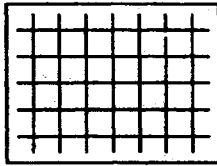



RV908 H.G SIZE
(horizontal position)




RV916 H.G LIN
(horizontal linearity)

5. Verify that the horizontal lines on the top and bottom of cross-hatched area of the monoscope signal are horizontal and linear.



6. Turn RV916, RV964 and RV969, the horizontal green linearity variable resistors (H.G LIN VRs) on the D-board, to obtain an optimum horizontal linearity.

Then turn RV908, the horizontal green amplitude variable resistor (H.G SIZE VR) to set horizontal amplitude to 15.6 frames.

Note: The horizontal position indicator of the monoscope signal must be positioned at the center by adjusting RV902, the horizontal green center position variable resistor (V.G CENT VR) in advance.

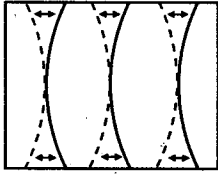
7. Input cross hatch signal.

Turn vertical green (V.G) and horizontal green (H.G) variable resistors (VRs) and make adjustments according to the following steps :

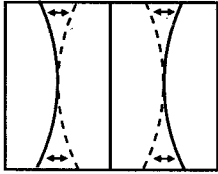
(Adjustment procedure)

1. [BOW] → [SKEW] → [CENT (center position)]
2. [PIN (pin warp)] → [SUB BOW] → [BOW]
3. [KEYS (trapezoid)] → [SUB SKEW] → [SKEW]
4. [M.WAVE (middle sine wave warp)] →
[WAVE-A (upper and lower sine wave warp)] →
[WAVE-U (upper sine wave warp)]
※ For vertical (V) only.
5. [V-M.PIN (vertical middle pin warp)] →
[V/WING (vertical wing warp)]
※ For vertical (V) only.
6. [H-M.PIN (horizontal middle pin warp)]
※ For horizontal (H) only.

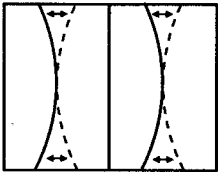
(Dot motion)



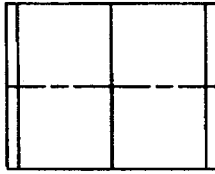

RV932 H.G BOW
(horizontal green bow)



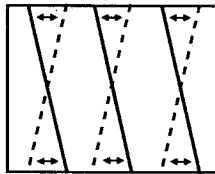

RV941 H.G PIN
(horizontal green pin warp)



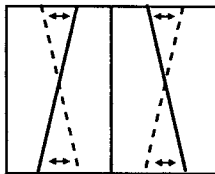

RV950 H.G SUB BOW
(horizontal green sub bow)



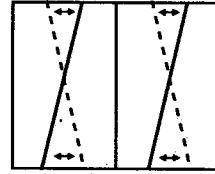
V.G BOW.....RV935
V.G PIN.....RV938
V.G SUB BOW.....RV953



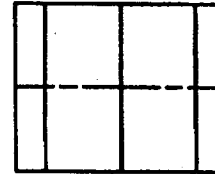

RV920 H.G SKEW
(horizontal green skew)



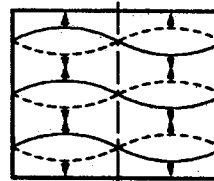

RV925 H.G KEYS
(horizontal green trapezoid)



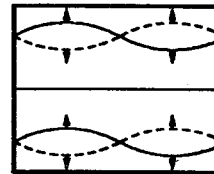

RV944 H.G SUB SKEW
(horizontal green sub skew)




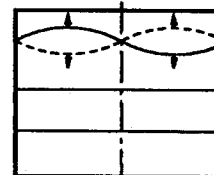
V.G SKEW.....RV923
V.G KEYS.....RV929
V.G SUB SKEW.....RV947



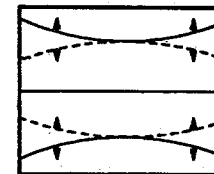

RV962 V-M-WAVE
(vertical middle sine wave warp)




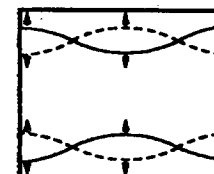

RV975 V-WAVE-A
(vertical upper and lower
sine wave warp)




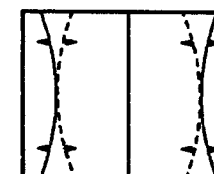

RV978 V-WAVE-U
(vertical upper sine wave warp)




RV980 V-M. PIN
(vertical middle pin warp)
* Common in red, green,
and blue




RV957 V/WING
(wing warp)
* Common in red, green,
and blue




RV956 H/M. PIN
(horizontal middle pin warp)

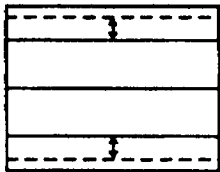
3-7. GREEN AND RED REGISTRATION ADJUSTMENTS

1. Input cross hatch signal.
2. Enter service mode. Select B OFF of SERVICE MODE to cut off blue output.
3. Turn the vertical red (V.R) and horizontal red (H.R) variable resistors (VRs) to adjust red picture convergence in relation to green picture according to the following steps :

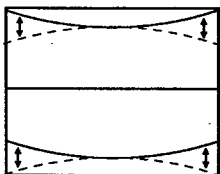
(Adjustment procedure)


1. [LIN (linearity)] → [SIZE (amplitude)] → [CENT (center position)]
2. [BOW] → [SKEW] → [CENT (center position)]
3. [PIN (pin warp)] → [SUB BOW] → [BOW] [H/M. PIN (horizontal middle pin warp)]
4. [KEYS (trapezoid)] → [SUB SKEW] → [SKEW]
5. [M.WAVE (middle sine wave warp)] → [WAVE-A (upper and lower sine wave warp)] → [WAVE-U (upper sine wave warp)]

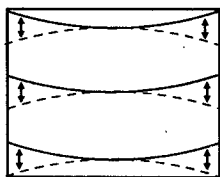
(Dot motion)



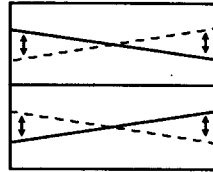
 RV912 V.B SIZE
(vertical red amplitude)



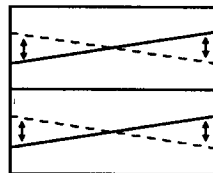
 RV952 V.R SUB BOW
(vertical red sub bow)




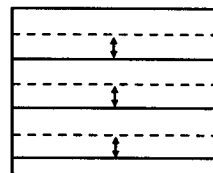
 RV943 V.R BOW
(vertical red bow)




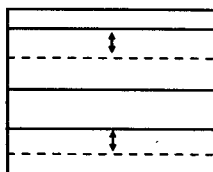
 RV928 V.R KEYS
(vertical red trapezoid)



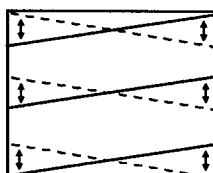
 RV946 V.R SUB SKEW
(vertical red sub skew)



 RV904 V.R CENT
(vertical red center position)



 RV917 V.R LIN
(vertical red linearity)



 RV922 V.R SKEW
(vertical red skew)

H.R LIN	RV915
H.R SIZE	RV907
H.R CENT	RV901
H.R BOW	RV931
H.R SKEW	RV919
H.R PIN	RV940
H.R KEYS	RV926
H.R SUB BOW	RV949
H.R SUB SKEW	RV943
V-M-WAVE	RV973
V-WAVE-A	RV976
V-WAVE-U	RV979
V-M.PIN	RV980
V/WING	RV957
H/M.PIN	RV956

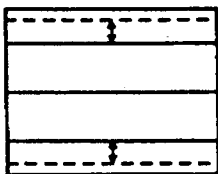
3-8. GREEN AND BLUE REGISTRATION ADJUSTMENTS

1. Input cross hatch signal.
2. Enter service mode. Select R OFF of SERVICE MODE to cut off red output.
3. Turn the vertical blue (V.B) and horizontal blue (H.B) variable resistors (VRs) to adjust blue picture convergence in relation to green picture according to the following steps :

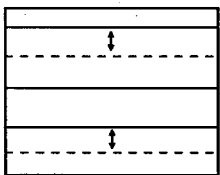
(Adjustment procedure)

1. [LIN (linearity)] → [SIZE (amplitude)] → [CENT (center position)] →
2. [BOW] → [SKEW] → [CENT (center position)]
3. [PIN (pin warp)] → [SUB BOW] → [BOW] [H/M. PIN (horizontal middle pin warp)]
4. [KEYS (trapezoid)] → [SUB SKEW] → [SKEW]
5. [M.WAVE (middle sine wave warp)] → [WAVE-A (upper and lower sine wave warp)] → [WAVE-U (upper sine wave warp)] →

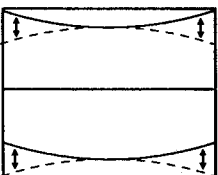
(Dot motion)




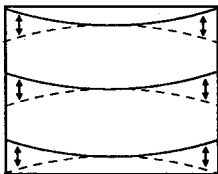
 RV912 V.B SIZE
(vertical blue amplitude)



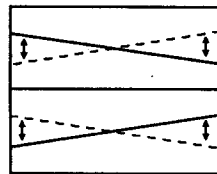
 RV918 V.B LIN
(vertical blue linearity)



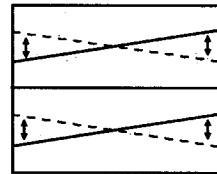
 RV954 V.B SUB BOW
(horizontal blue sub bow)




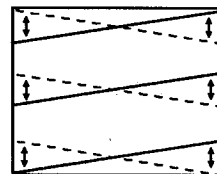
 RV936 V.B BOW
(vertical blue bow)



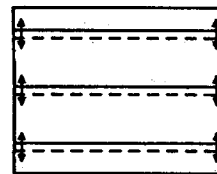
 RV930 V.B KEYS
(vertical blue trapezoid)



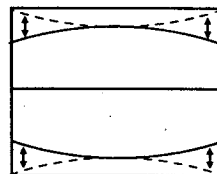
 RV948 V.B SUB SKEW
(vertical blue sub skew)



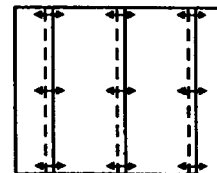
 RV924 V.B SKEW
(vertical blue skew)



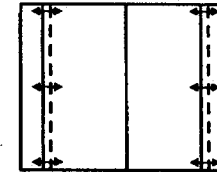
 RV906 V.B CENT
(vertical blue center position)



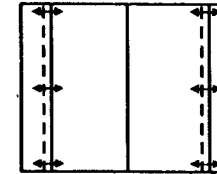
 RV939 V.B PIN
(vertical blue pin warp)




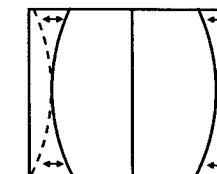
 RV903 H.B CENT
(vertical blue center position)



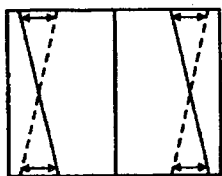
 RV909 H.B SIZE
(horizontal blue amplitude)



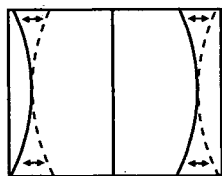
 RV914 H.B LIN
(horizontal blue linearity)



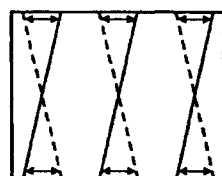
 RV942 H.B PIN
(horizontal blue pin warp)



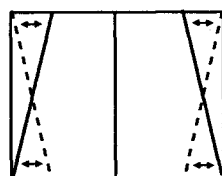
RV954 H.B SUB SKEW
(horizontal blue sub skew)



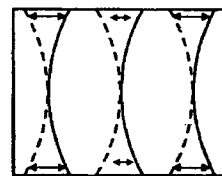
RV951 H.B SUB BOW
(horizontal blue sub bow)



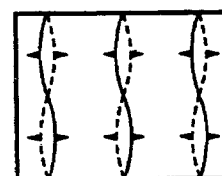
RV921 H.B SKEW
(horizontal blue skew)



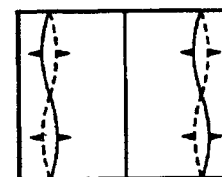
RV927 H.B KEYS
(horizontal blue trapezoid)



RV933 H.B BOW
(horizontal blue bow)



RV981
※ Common in red,
green, and blue



RV982
※ Common in red,
green, and blue

- H/M PIN.....RV958
- M.WAVE.....RV961
- WAVE-A.....RV974
- WAVE-U.....RV977

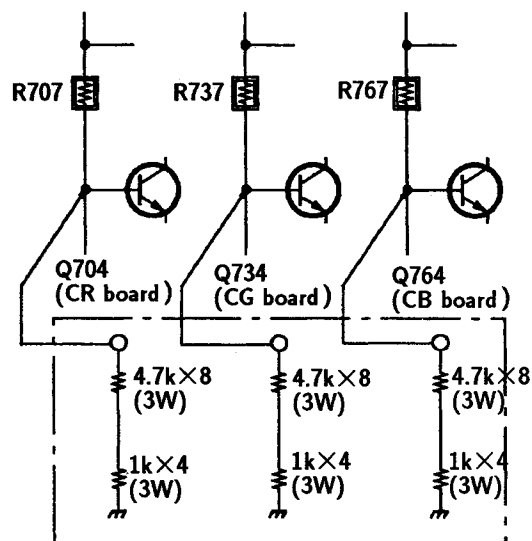
3-9. REGISTRATION CHECK

1. Out put red, blue, and green.
2. Out put cross hatch and monoscope signals to check registration. Also check focus.

3-10. WHITE BALANCE ADJUSTMENTS

1) Screen adjustment

1. Input white signal.
2. Remove connectors CR-15, CG-16, and CB-17.
3. Fit jigs between the ground and R707, R737, and R767.



※ Resistors in each jig are connected serial.

4. Turn the RGB (red, green, and blue) screen variable resistors in the focus block to make the flyback line faint. Stop before the line completely disappears.
5. Insert connectors CR-15, CG-16, and CB-17.

2) White balance adjustments (SBRT, GAMP, BAMP, GCUT, BCUT)

1. Input monoscope signal and enter service mode.
2. Select the picture quality adjustment from the menu and set PICTURE minimum.
3. Use the commander to adjust SBRT so that 10 IRE of the monoscope pattern becomes faintly luminous.
4. Input white signal.
5. Set PICTURE minimum. Adjust item GCUT and BCUT to obtain an optimum white balance.
6. Set PICTURE maximum. Adjust GAMP and BAMP to obtain an optimum white balance.
7. Repeat white balance adjustment alternating PICTURE setting at the minimum and maximum.

SECTION 4 SAFETY RELATED ADJUSTMENTS

4-1. SAFETY RELATED ADJUSTMENTS

When replacing the following components, make the HV REGULATOR adjustments (on the N board)

-HV block, IC803, IC805, D805, D807, C817, C818, C821, C836, C837, R824, R825, R827, R828, R834, R835, R836, R864, R865, R866, R902

When replacing the following components, make the HV HOLD DOWN adjustments (on the N board)

-HV block, IC803, IC804, Q804, D806, D808, C809, C819, C820, C822, C823, C850, R807, R826, R829, R832, R833, R837, R838, R839, R840, R841, R892, R893, R900, R901

When replacing the following components, make the BEAM CURRENT PROTECTOR adjustments (on the N board)

-① IC802, Q805, Q807, D811, D812, C810, C824, C825, C826, C827, C831, R810, R843, R844, R847, R848, R849, R850, R851, R852, R853, R854, R881
- ② IC804, Q804, Q808, D808, D809, C809, C828, C829, C830, C831, R807, R839, R840, R841, R847, R848, R849, R850, R851, R852, R855, R856, R857, R881

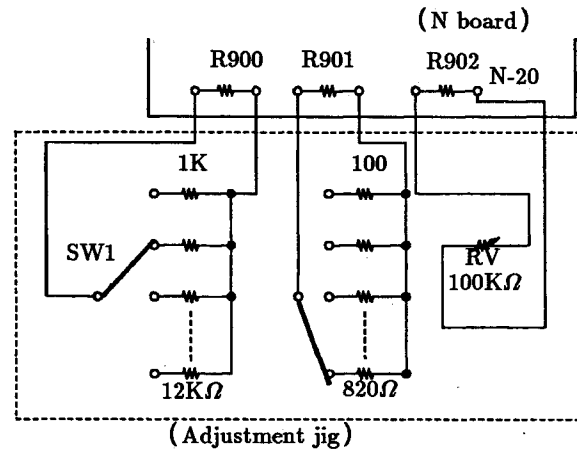
When replacing the following components, make the OVP CIRCUIT adjustments (on the G board)

-Q618, Q621, D628, C634, R639, R649, R652, R655, R656

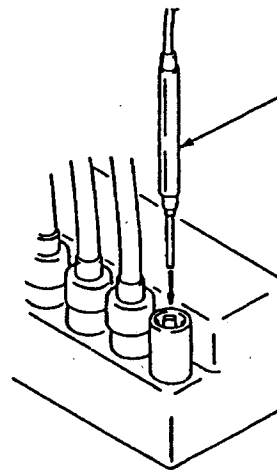
— Checking with static voltmeter —

HV HOLD DOWN ADJUSTMENTS (R900, R901)

1. Verify that the power switch is off.
2. Connect the HV hold down adjustment resistance jig to the N20 connector on the N board.



3. Connect an external variable resistor (RV) to R 902 of the N board.
4. Remove the cap off from the unused terminal of the high voltage block. Connect a static voltmeter to the terminal.

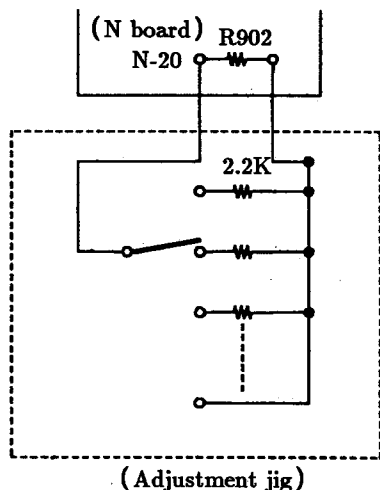


Remove high-voltage lead wire from the terminal and connect a static voltmeter there.

5. Receive 120 VAC power voltage and monoscope pattern signal. Maximize PICTURE and BRIGHTNESS.
6. Use the external variable resistor of the hold down adjustment jig to make the static voltmeter to read $33.50 \pm 0.50\text{kVDC}$.
7. Raise resistances with the jig until the HV hold down circuit is activated. Read the figures then, and mount resistance of the measured figures to R900 and R901.
R900 : Must be $1\text{k}\Omega$ to $12\text{k}\Omega$
R901 : Must be 100Ω to 820Ω
8. Turn on power again. Vary external variable resistance and confirm that the HV hold down circuit is activated at the reated value, $33.50 \pm 0.50\text{kV}$.

HV REGULATOR ADJUSTMENTS (R902)

1. Connect the HV adjustment resistance jig to R902 of the N board.



2. Remove the red anode lead wire for the CRT tube from the high-voltage block and connect the static voltmeter instead.
3. Receive 120 VAC power voltage and monoscope pattern signal. Set PICTURE and BRIGHTNESS to the standard.
4. Turn on power. To adjust the resistance of R902 with the adjustment jig to read the rated value, $31.50 \pm 0.50\text{kV}$.
5. Receive all-white signal. Set BRIGHTNESS to the standard. Maximize PICTURE. Confirm that the rated value, $31.50 \pm 0.50\text{kV}$ is read.
6. Cut off RGB by R OFF, G OFF, B OFF of the service commander. Verify that the rated value, $31.50 \pm 0.50\text{kV}$, is read.

+B VOLTAGE CONFIRMATION

1. Receive 120 ± 1 VAC power voltage and monoscope pattern signal. Set BRIGHTNESS to standard and maximize PICTURE.
2. Connect a digital multimeter between the 115V line and the ground on the G board, and confirm that the rated value, $115.0 \pm 0.3\text{V}$ is read.

CHECKING AFTER REPLACING IC601

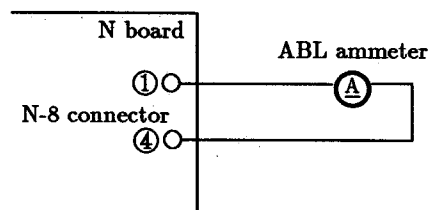
1. When replacing IC601, check the +B voltage.

CHECKING THE OVP (overvoltage protection) CIRCUIT (R652)

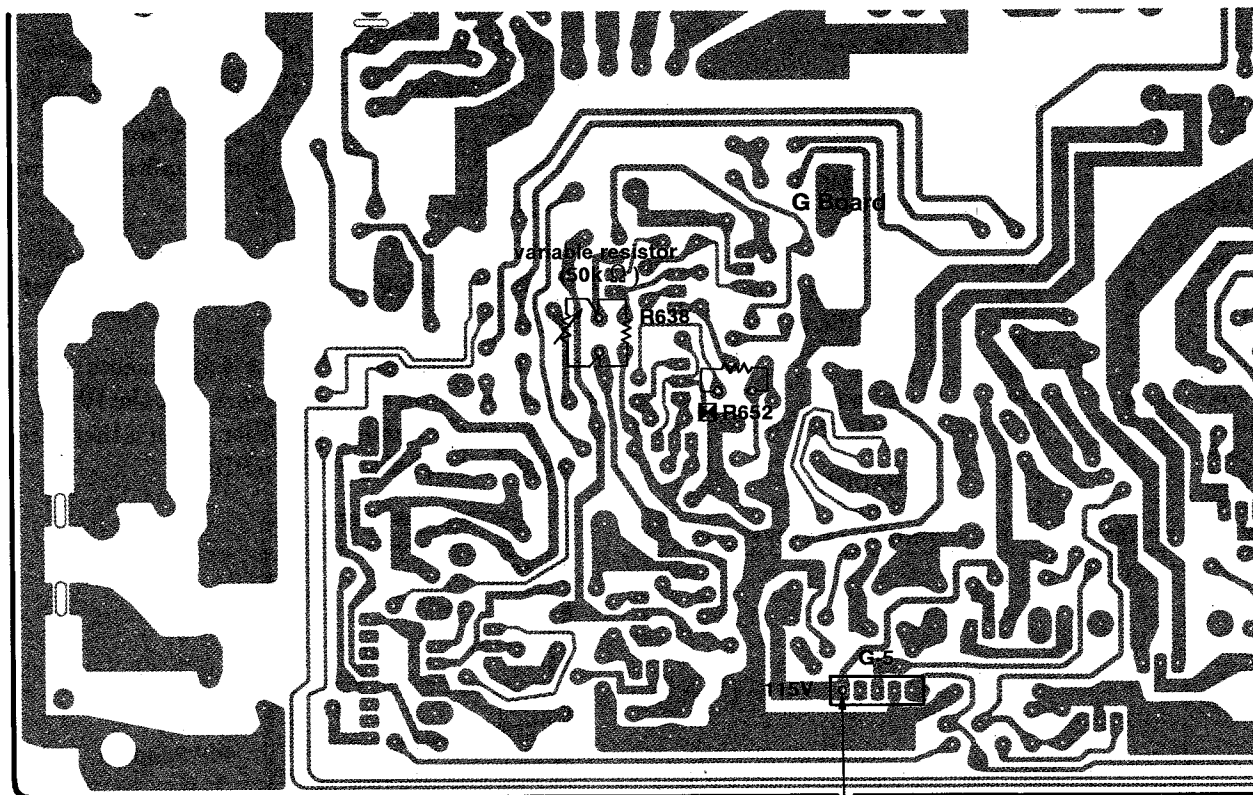
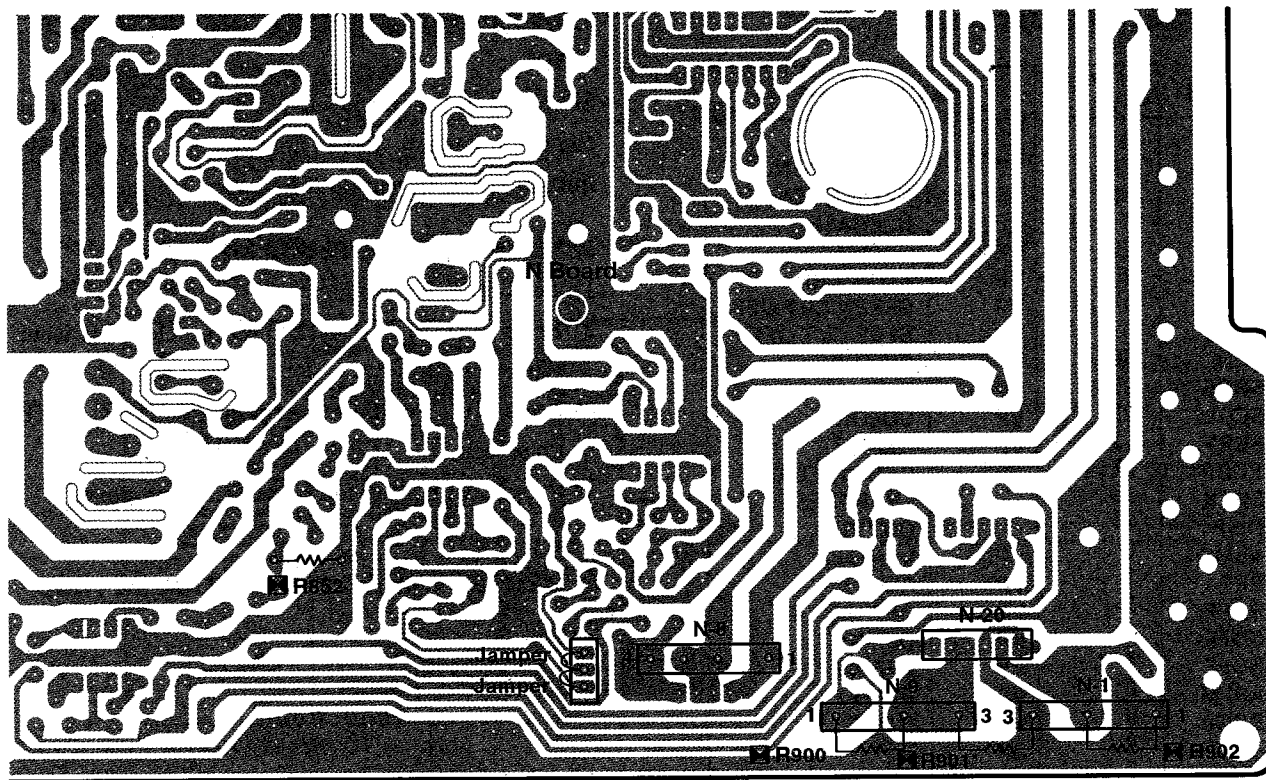
1. Receive 120 VAC power voltage and monoscope pattern signal. Maximize PICTURE and BRIGHTNESS.
2. Remove R638 from the G board and connect a variable resistor (4.7 to $10\text{k}\Omega$) instead.
3. Turn the variable resistor of $10\text{k}\Omega$ and confirm that the OVP circuit is activated and luster disappears when +B voltage reads the rated value, 125.0 ± 5.0 VDC.

BEAM CURRENT PROTECTOR CHECK (R852)

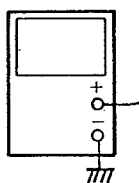
1. Receive 120 VAC power voltage and monoscope pattern signal. Maximize BRIGHTNESS.
2. Connect pin ① and pin ② of the N-21 connector. (on the N board)
3. Remove the jumper connector from the N-8 connector on the N board. Then connect an ABL ammeter between pin ① and pin ④ of the N-8 connector.



4. Raise PICTURE current gradually. Confirm that the beam current protector circuit is activated and luster disappears under the rated value, $3400 \mu\text{A}$.
5. Connect pin ③ and pin ② of the N-21 connector. Verify that the protector circuit is activated and luster disappears similarly.



digital multi-meter



— Checking without static voltmeter —

HV HOLD DOWN ADJUSTMENT (R900, R901)

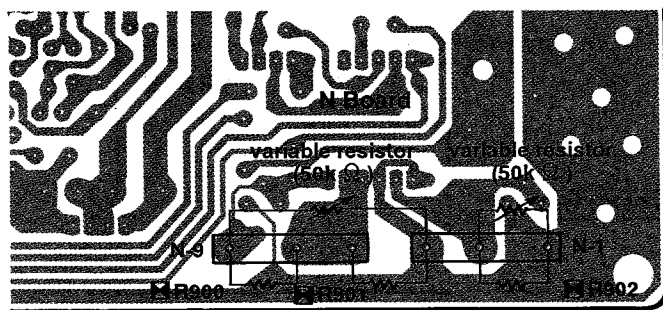
1. Receive all-white signal. Maximize PICTURE and BRIGHTNESS.
2. Remove R902 from the N board. Connect a variable resistor of $50k\Omega$ on each end, and minimize the resistance.
3. Remove R900 and R901 from the N board. Connect a variable resistor of $50k\Omega$ on each end, and minimize the resistance.
4. Connect a digital voltmeter between the D801 cathode and chassis ground of the N board.
5. Turn on the power switch. Adjust the variable resistors connected to the R902 of the N board to make the digital multimeter to read $145.0VDC$.
6. Adjust the variable resistors connected to R900 and R901 on the N board so as to activate the HV hold down circuit and turn off the display.
7. Read the variable resistors connected to R900 and R901 and mount fixed resistors of measured resistance to the terminals.

Note : Select fixed resistance from the following ranges.

R900 : $1k\Omega$ to $12k\Omega$

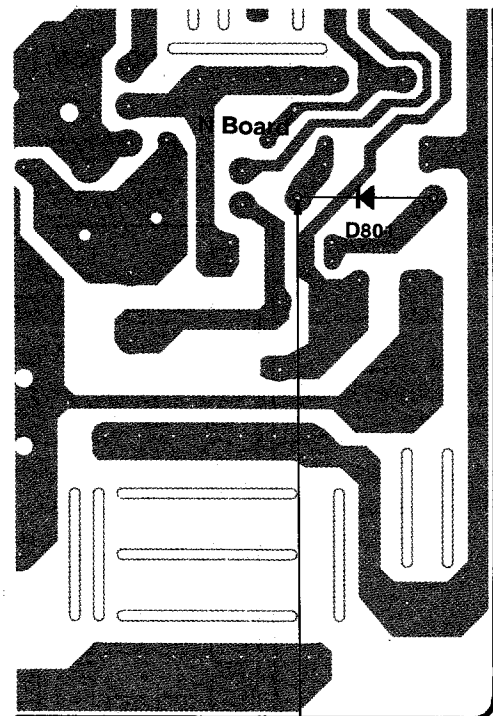
R901 : $Jw 100\Omega$ to 820Ω

8. Maximize resistance of the variable resistor connected to R902 of the N board and turn on power.
9. Vary variable resistance at R902. Confirm that the HV hold down circuit is activated and the display is turned off when voltage reads $134\pm 1.0V$.

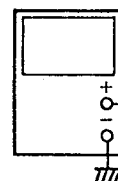


HV REGULATOR ADJUSTMENT (R902)

1. Receive all-white signal. Maximize PICTURE and BRIGHTNESS.
2. Connect a variable resistor of $50k\Omega$ on each end of R902 of the N board. Maximize resistance.
3. Connect a digital voltmeter between the D801 cathode and the chassis of the N board.
4. Turn on power. Adjust the variable resistor so that the digital multimeter reads $135.0V\pm 1.0V$.
5. Read the variable resistance then.
6. Mount a fixed resistor of the measured resistance to R902.
 Note : R902 : Must be $2.2k\Omega$ to $27k\Omega$
7. Turn on power again. Confirm that the digital multimeter reads $135.0V\pm 1.0V$.



digital multi-meter



SECTION 5 CIRCUIT ADJUSTMENTS

5-1. ELECTRICAL ADJUSTMENT BY REMOTE COMMANDER

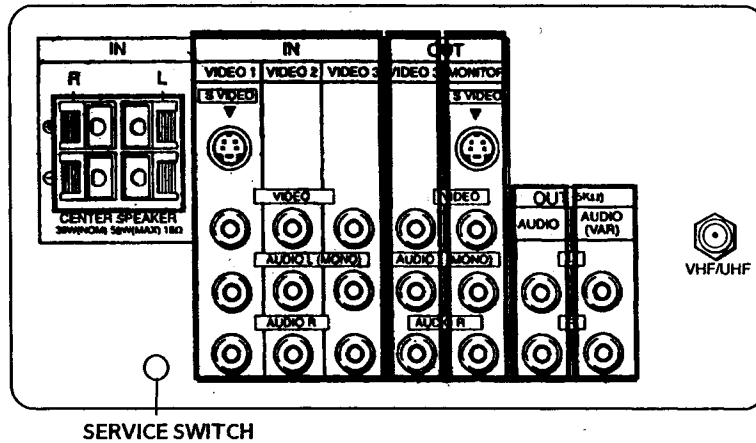
Use of Remote Commander (RM-Y112A) can be performed circuit adjustments about this model.

NOTE : Test Equipment Required.

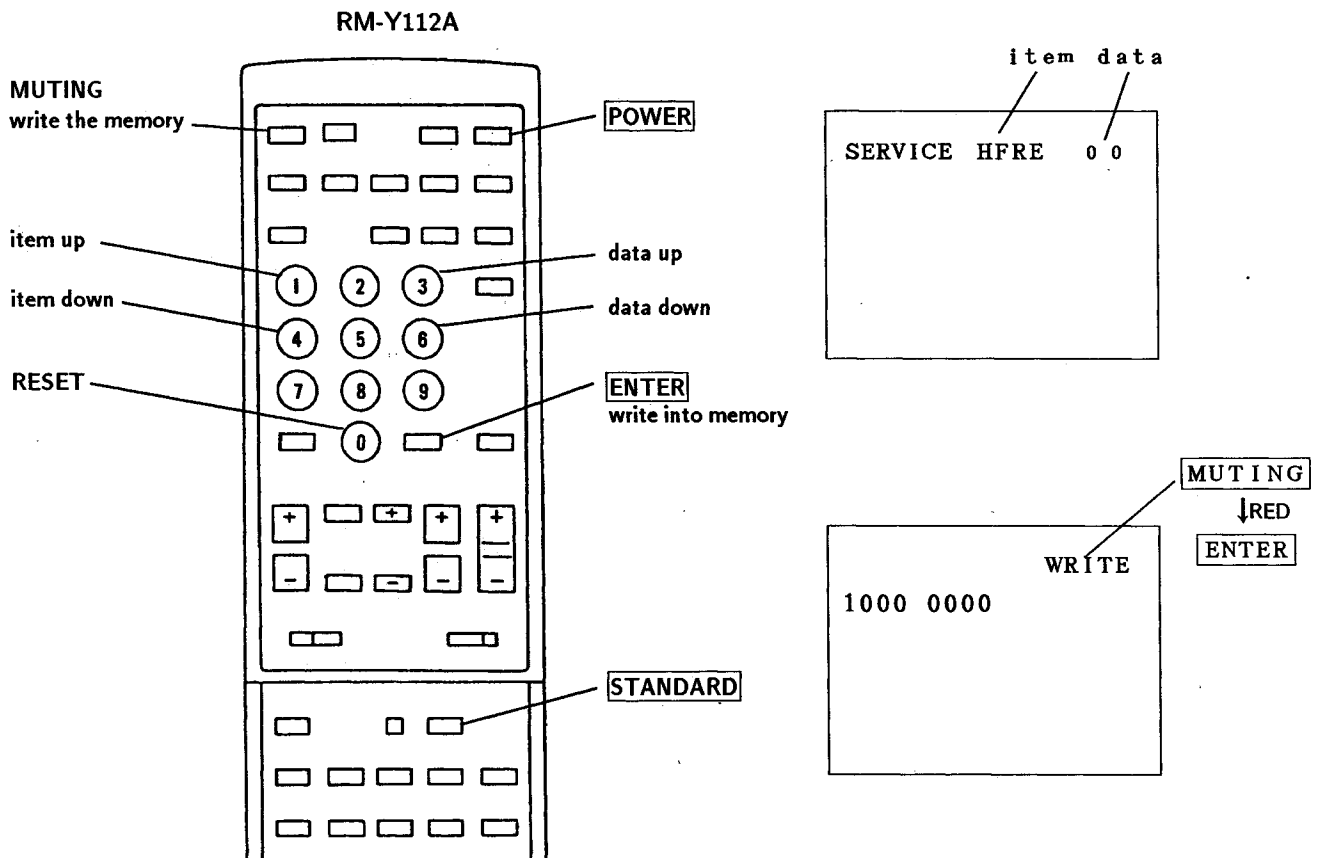
1. METHOD OF SETTING THE SERVICE MODE

- 1) Press **POWER** button on the Remote Commander while pressing switch on the rear of the set.

1. Pattern Generator
2. Frequency counter
3. Digital multimeter
4. Audio OSC



2. ADJUST BUTTONS AND INDICATOR



3. AN ITEM OF ADJUSTMENT

ITEM	REFERENCE DATA	NAME REGIST	
AFC	0	VP	AFC 1.0
HFRE	74	VP	H. FREQUENCE
VFRE	16	VP	V. FREQUENCE
HPOS	5	VP	H. PHASE
GAMP	25	VP	GREEN AMP.
BAMP	26	VP	BLUE AMP.
GCUT	9	VP	GREEN CUT OFF.
BCUT	6	VP	BLUE CUT OFF
SPIX	40	VP	PICTURE
SHUE	29	VP	HUE
SCOL	28	VP	COLOR
SBRT	11	VP	BRIGHT
RGBP	28	VP	RGB PICTURE
SHAR	13		SHARPNESS
DISP	24		OUTPUT
VSMO	0	VP	VSMO
REF	1	VP	REF 1.0
ROFF	1	VP	OFF NR
GOFF	1	VP	OFF NG
BOFF	1	VP	OFF NB
ABLM	0	VP	ABLM
DRGB	0	VP	D RGB
TEST	0	AP	T
MPX	7	AP	ATT
FILO	31	AP	I1
DEEM	7	AP	I2
STEV	31	AP	OSC 1
SAPV	31	AP	OSC 2
PILO	7	AP	PILOT
SEP	31	AP	WIDE BAND
VD	7	AP	SPECTRAL
LVOL	0	AP	VOLUME-L
RVOL	0	AP	VOLUME-R
BASS	8	AP	BASS
TRE	8	AP	TREBLE
PHPO	32	PI	READ DELAY H
PVPO	8	PI	READ DELAY V
PLEV	6	PI	PICTURE LEVEL
PFCO	7	PI	FRAME COLOR
PPLL	1	PI	PLLOF
PPVS	6	PI	VSPDEL
NRLE	31		NR LEVEL
DSPP	43		
SHAD	1	PJ	SHADON
VMSW	1	PJ	RS HAD
SCUT	16	PJ	SHAD CUT OFF

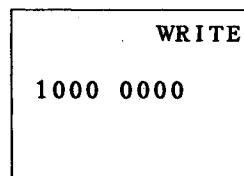
4. METHOD OF CANCELLATION FROM SERVICE MODE

Set the standby condition (Press **POWER** button on the commander) in the next place, press **POWER** button again, hereupon it becomes TV mode.

5. METHOD OF WRITE FOR MEMORY

- 1) Set to Service Mode.
- 2) Press **1** (UP) and **4** (DOWN), select an item of adjustments.
- 3) Press **MUTING** button indicate WRITE (RED) on screen.
- 4) Press **ENTER** button to write for memory.

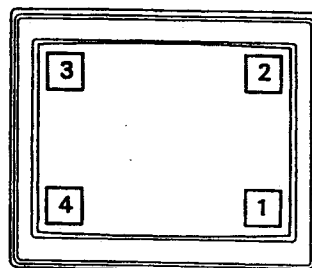
6. MEMORY WRITE CONFIRMATION METHOD



- 1) After adjustment, pull out the plug from AC outlet, and next place, plug in AC outlet again.
- 2) Turn the power switch ON and set to Service Mode.
- 3) Call the adjusted items again, confirm they were adjusted.

7. PUB PICTURE POSITION ADJUSTMENT (PHPO, PUPO)

Note : Before doing any Service Adjustments on the models above you must make sure that the PIP Screen is in the number 1 position, even if there are no adjustments being made to PIP.



PIP Positions

After making adjustments into the PIP 1 position, write the information into the ROM. Next, unplug the unit and recheck the other three positions. Adjustments made to the number 1 position will affect the other three positions.

5-2. A BOARD ADJUSTMENTS

RF AGC ADJUSTMENT(IF BLOCK VR)

- 1) Input a color-bar signal.
- 2) Adjust AGC VR of TU 101 so that snow noise and cross-modulation disappear from the picture.
- 3) Confirm them at every channel.

H.FREQUENCY ADJUSTMENT (HFRE)

- 1) Set to Service Mode.
- 2) Input a color-bar signal.
- 3) Connect a frequency counter to pin③ of A-10 connector.
- 4) Call the item of AFC, set to 3 level (free run).
- 5) Select HFRE with **[1]** and **[4]**.
- 6) Adjust **[3]** and **[6]** to the 15735 ± 60 Hz level.
- 7) Call the item of AFC again, adjust the level "01".
- 8) Write into the memory by pressing **[MUTING]** → then **[ENTER]**.

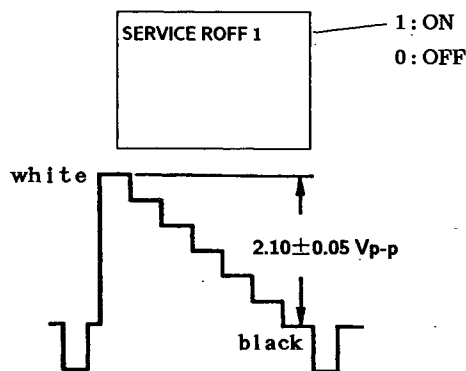
V.FREQUENCY ADJUSTMENT (VFRE)

- 1) Set the Service Mode.
- 2) Input an off-air signal (VIDEO IN → no signal).
- 3) Connect the frequency counter across connector ⑬ pin of E 1-1 connector and ground.
- 4) Select VFRE with **[1]** and **[4]**.
- 5) Adjust **[3]** and **[6]** to the 55 ± 0.5 Hz.
- 6) Write the memory by pressing **[MUTING]** → then **[ENTER]**.

SUB CONTRAST ADJUSTMENT (SPIX)

- 1) Set to Service Mode.
- 2) Input a color-bar signal. (75 IRE)
- 3) Set the conditions as follows.

PICTURE	.....	MAX
COLOR	.....	MIN
BRIGHTNESS	.....	MIN
TRINITONE	.....	LOW
R OFF	.....	ON
G OFF	.....	OFF
B OFF	.....	OFF

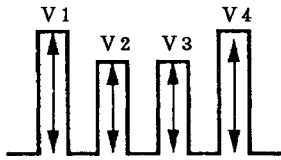


- 4) Connect an oscilloscope to ⑳ pin of E1-1 connector on A board and ground.
- 5) Adjust **[3]** and **[6]** to the 2.10 ± 0.05 Vp-p level by selecting SPIX with **[1]** and **[4]**.
- 6) Write the memory by pressing **[MUTING]** → then **[ENTER]**.
- 7) Return the following back to normal after adjustment.

G OFF	.....	ON
B OFF	.....	ON
COLOR	.....	CENTER
BRIGHTNESS	.....	CENTER
TRINITONE	.....	HIGH
PICTURE	.....	80%

SUB HUE, SUB COLOR ADJUSTMENT (SHUE, SCOL)

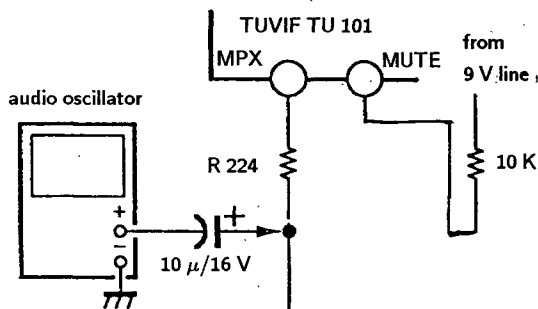
- 1) Input a color-bar signal.
- 2) Press **STANDARD** to normal.
- 3) Set to Service Mode.
- 4) Connect an oscilloscope to pin ② of E1-1 connector on A board and ground.
- 5) Adjust ③ and ④ to the $V1=V4$ and $V2=V3$ by select to SHUE and SCOL with ① and ④. Lower the data 4 steps from this point.



- 6) Write into the memory by pressing **MUTING** → then **ENTER**.

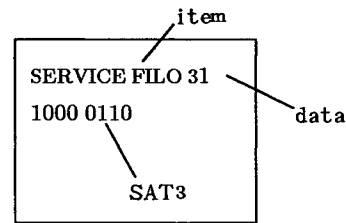
FILTER ADJUSTMENT (MPX, FILO)

- 1) Set to Service Mode.
- 2) Select to **TEST** with ① and ④, set the data to "1". Then select MPX and change data to "8".
- 3) Connect an audio oscillator to R224 using a capacitor ($10\mu\text{F}/16\text{V}$), set frequency to $62.936\text{ kHz} \pm 0.1\text{ kHz}$. And then, through the $10\text{k}\Omega$ resistor, feed 9.0V into the mute of TUVIF TU 101.



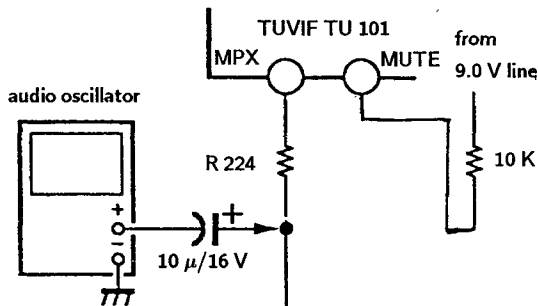
V 4 fh : SINE-WAVE $62.936\text{ KHz} \pm 0.1\text{ KHz}$
LEVEL 3.0 Vp-p

- 4) Make the data "00" by selecting FILO with ① and ④. And then, send up the data gradually by pressing ⑥. Set the data to D1 before SAT3 changing to 1 from 0.
- 5) Send up the data gradually. Set data D2 when SAT3 changes 0 from 1.
- 6) Adjust the data of FILO to $\frac{D1 + D2}{2}$.
- 7) Write into the memory by pressing **MUTING** → then **ENTER**.



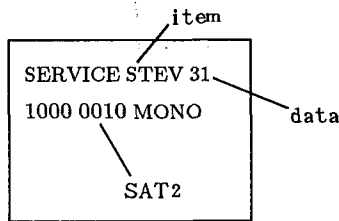
ST VCO ADJUSTMENT (MPX, STEV)

- 1) Set to Service Mode.
- 2) Select **TEST** with ① and ④, set the data to "1". And then press **MTS** to MONO.
- 3) Select MPX, set the data "8".
- 4) Connect an audio oscillator to R 224 using electrolytic capacitor ($10\mu\text{F}/16\text{V}$) and apply the frequency V_{st} . Then, apply DC voltage to mute of TUVIF TU 101 using $10\text{k}\Omega$ connect to 9.0V line.



Vfh : SINE-WAVE $15.734\text{ KHz} \pm 0.1\text{ KHz}$
LEVEL 0.28 Vp-p

- 5) Select STEV with **1** and **4**, set the data to "00" with **6**. And then, send up the data gradually. Set the data to D1 before SAT2 changes from 0 to 1.
- 6) Send up data gradually, set the data to D2 when SAT2 changes 1 from 0.
- 7) Adjust the data of STEV to $(D1 + D2) / 2$.
- 8) Write into the memory by pressing **MUTING** → then **ENTER**.



MPX IN LEVEL ADJUSTMENT (MPX)

- 1) Set to Service Mode.
- 2) Select TEST with **1** and **4**, set the data to "0" with **6**. And then press **MTS** to MONO.
- 3) Select MPX with **1** and **4**, set the data to "8" with **3** and **6**.
- 4) Write into the memory by pressing **MUTING** → then **ENTER**.

PILOT CANCEL ADJUSTMENT (PILO)

- 1) Set to the Service Mode.
- 2) Select PILO with **1** and **4**, set the data to "08" with **3** and **6**.
- 3) Write into the memory by pressing **MUTING** → then **ENTER**.

SAP VCO f₀ ADJUSTMENT (SAPV)

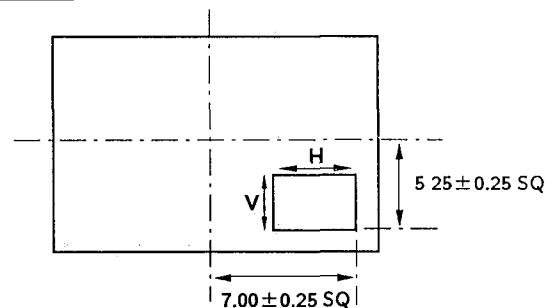
- 1) Set to Service Mode.
- 2) Input a stereo broadcast signal with SAP.
- 3) Select TEST with **1** and **4**, set the data to "0". And then, press **MTS** to MAIN.
- 4) Connect a digital multimeter to TP-1(DBX). This voltage reading will equal V 1.
- 5) Press MTS to SAP and this voltage will equal V 2.
- 6) Select SAPV with **1** and **4**, adjust **3** and **6** so that $V2 = V1 \pm 0.03$ VDC.
- 7) Write the memory by **MUTING** → **ENTER**.

SEPARATION ADJUSTMENT (SEP)

- 1) Set to Service Mode.
- 2) Press **MTS** to MAIN and receive a monoral broadcast signal.
In the next step, receive a stereo broadcast signal.
- 3) Select SEP and VD with **1** and **4**, adjust **3** and **6** so that a clear stereo sound is effected.

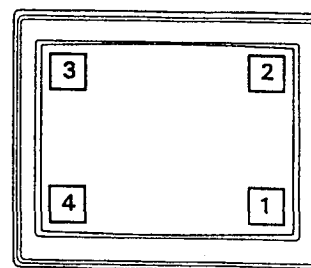
SUB PICTURE POSITION ADJUSTMENT (PHPO, PVPO)

- 1) Input a cross hatch signal.
- 2) Set to service mode.
- 3) Press PIP to display a sub picture.
(RIGHT LOWER Position)
- 4) Select PHPO, PVPO with **1** and **4**.
- 5) Adjust **3** and **6** to the standard as shown below.
- 6) Write the memory by pressing **MUTING** → then **ENTER**.



PUB PICTURE POSITION ADJUSTMENT (PHPO, PUPO)

Note : Before doing any Service Adjustments on the models above you must make sure that the PIP Screen is in the number 1 position, even if there are no adjustments being made to PIP.



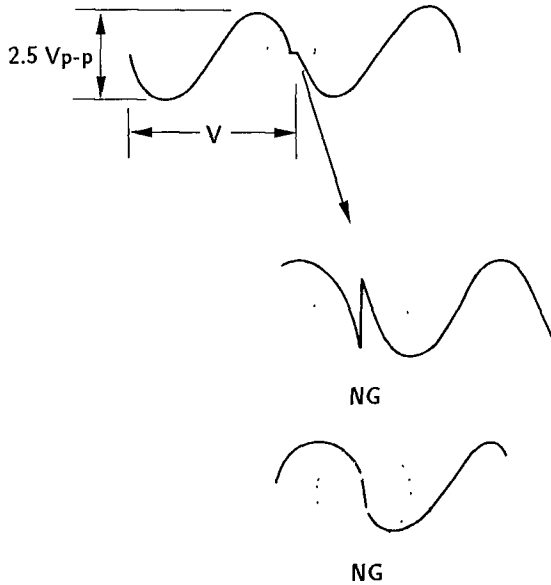
PIP Positions

After making adjustments into the PIP 1 position, write the information into the ROM. Next, unplug the unit and recheck the other three positions. Adjustments made to the number 1 position will affect the other three positions.

5-3. DS BOARD ADJUSTMENTS

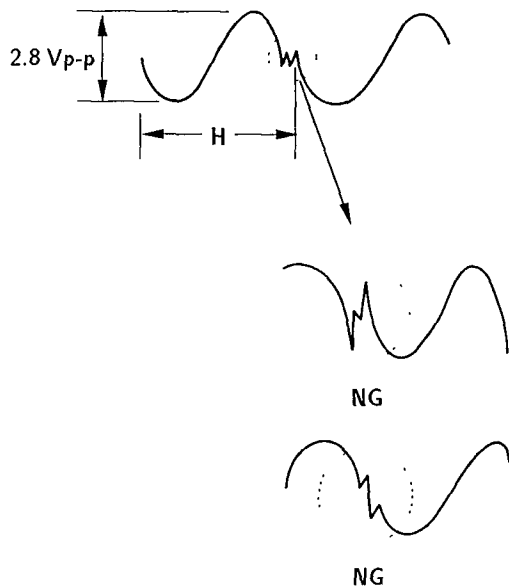
V. 3 WAVE ADJUSTMENT (RV983)

- 1) Input a color-bar signal.
- 2) Connect an oscilloscope IC1712 Pin ⑦ of DS board ground.
- 3) Adjust RV983 as shown the following figure.

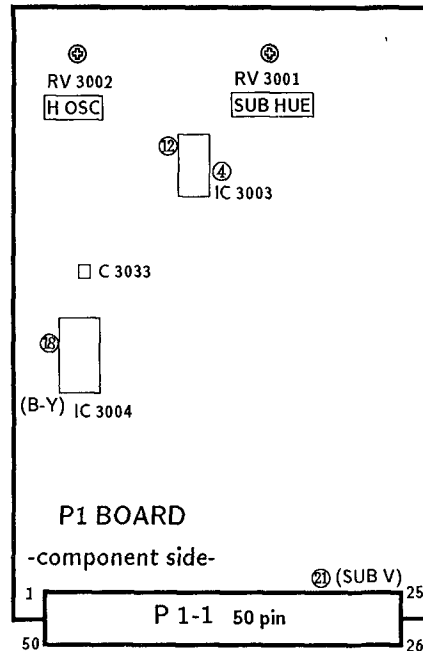


H. 3 WAVE ADJUSTMENT (RV984)

- 1) Input a color-bar signal.
- 2) Connect an oscilloscope IC1712 Pin ① of DS board ground.
- 3) Adjust RV984 as shown the following figure.

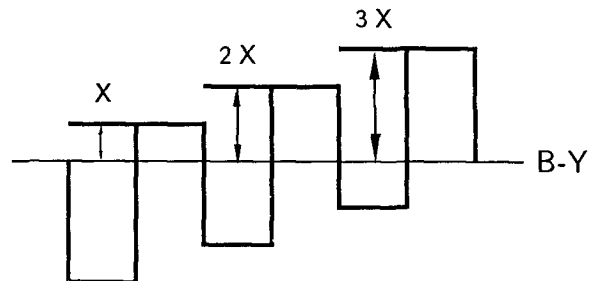


5-4. P1 BOARD ADJUSTMENTS



SUB HUE ADJUSTMENT (RV 3001)

- 1) Set HUE and COLOR to the standard condition.
- 2) Make adjustment so that B-Y signal as shown to the right is obtained at the crossing point of R 3009 (0 Ω) and C 3033.
- 3) Supply the color bar signal of 75 IRE (white) at 2 V_{pp} to Pin ② (SUB V) of P 1-1 and make adjustment by turning RV 3001.

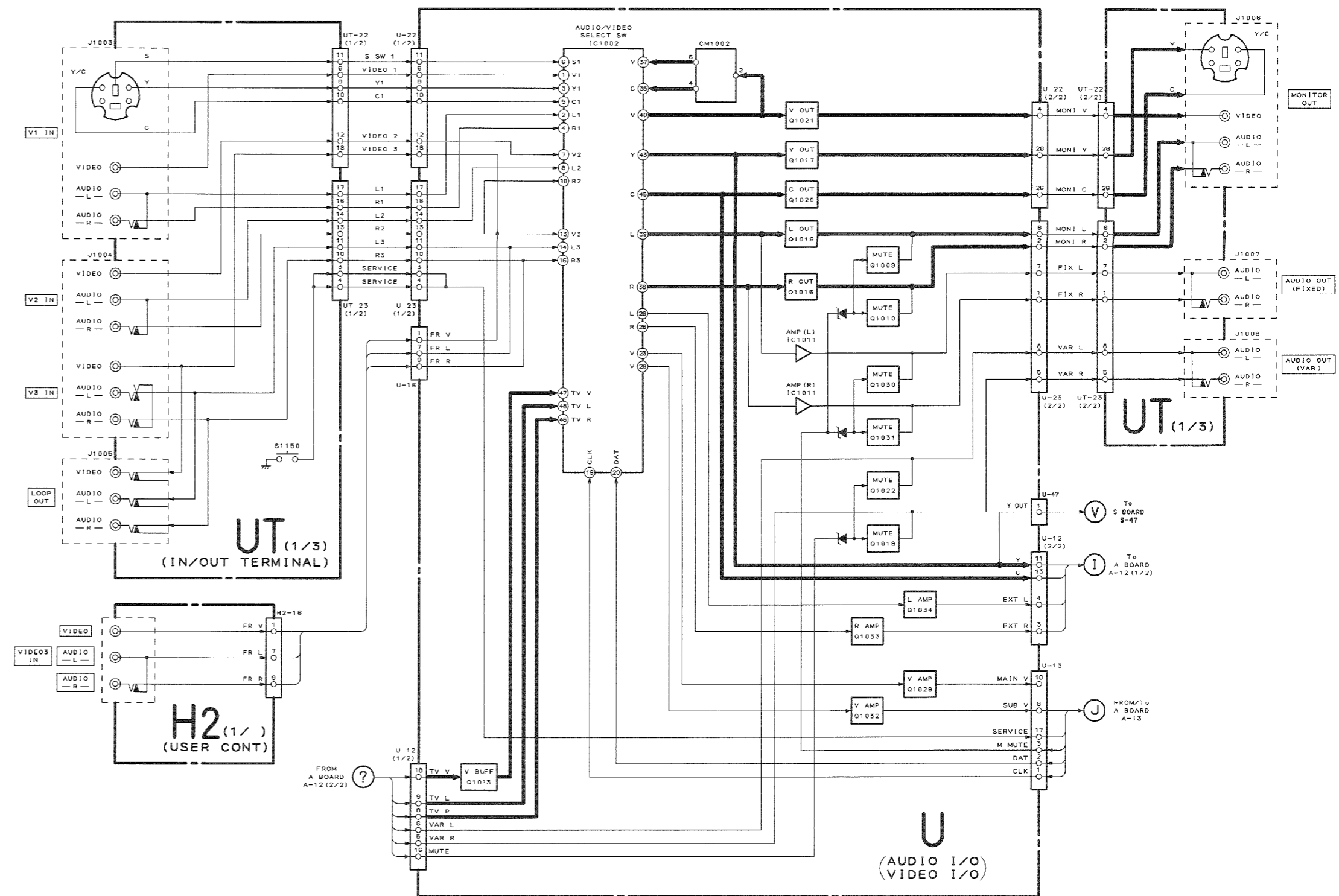
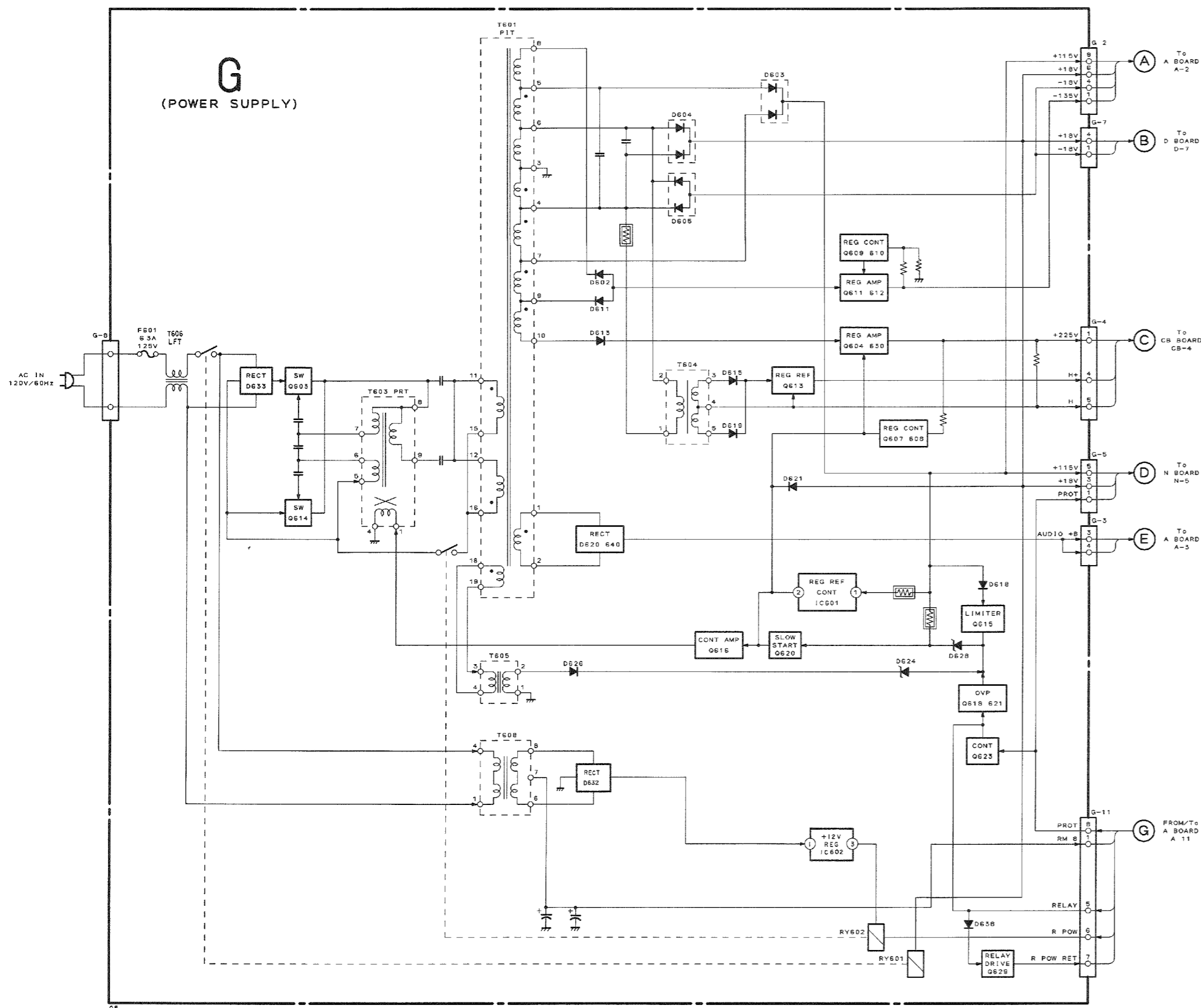


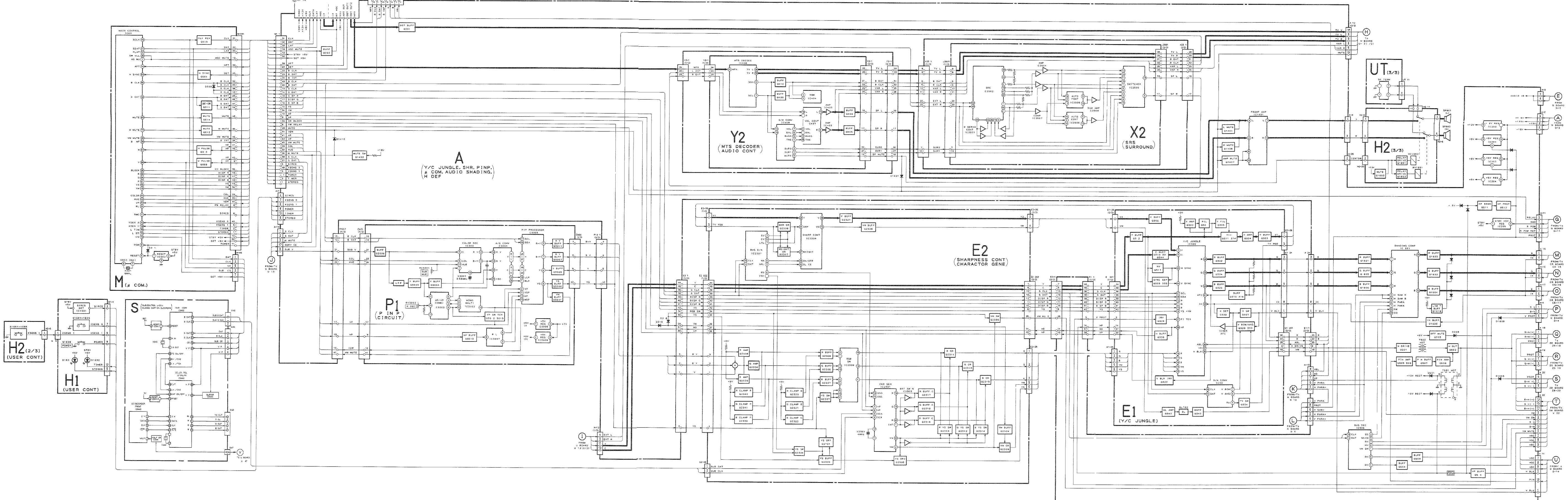
H. FREQUENCY (H OSC) ADJUSTMENT (RV-3002)

- 1) Connect a frequency counter to Pin ④ (H OUT) of IC 3003.
- 2) Connect Pin ⑫ of IC 3003 to ground.
- 3) Adjust RV3002 for a frequency of 15.734 kHz ± 50 Hz at Pin ④ of IC 3003.
(or until the frequency comes to a standstill.)

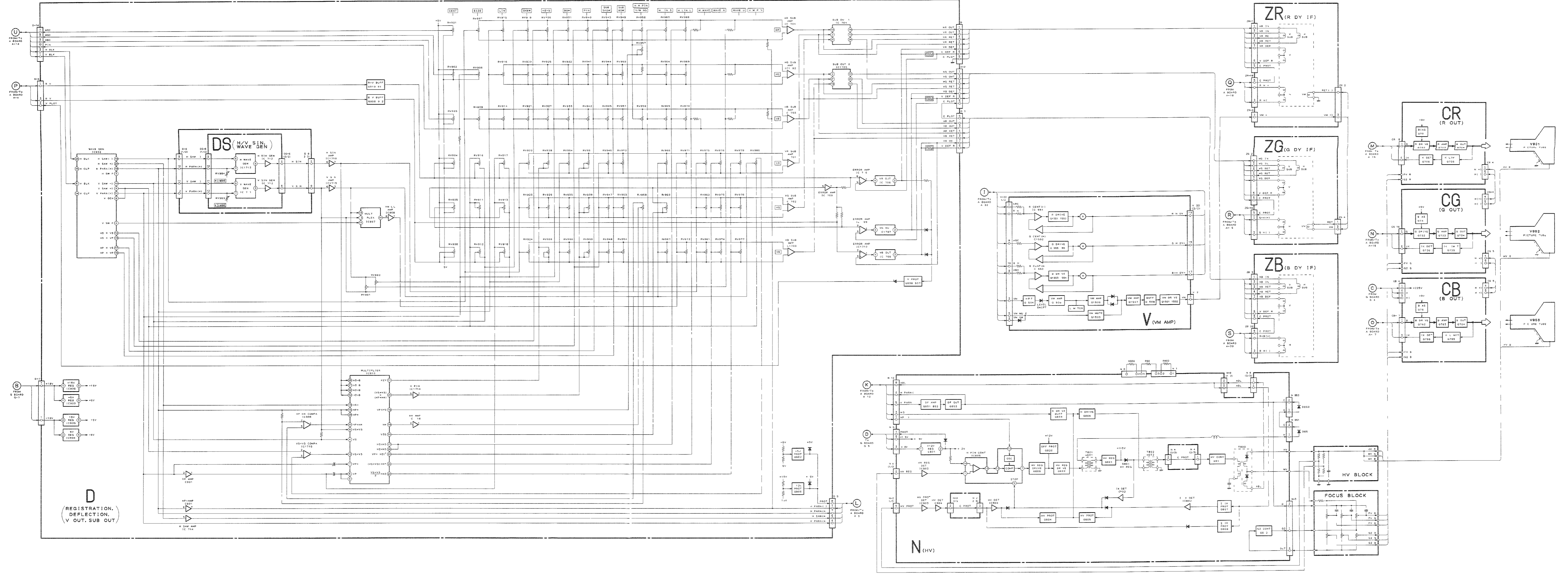
SECTION 6
DIAGRAMS

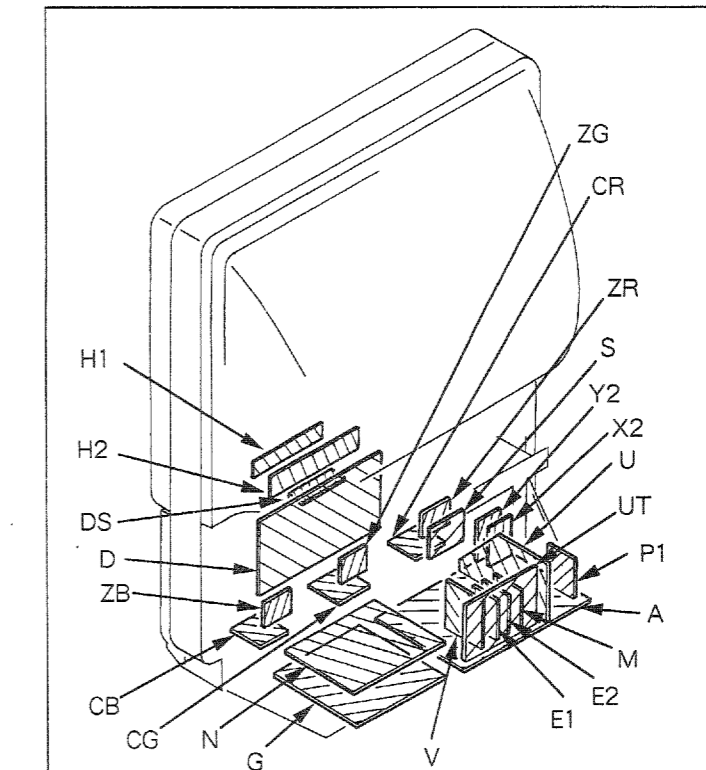
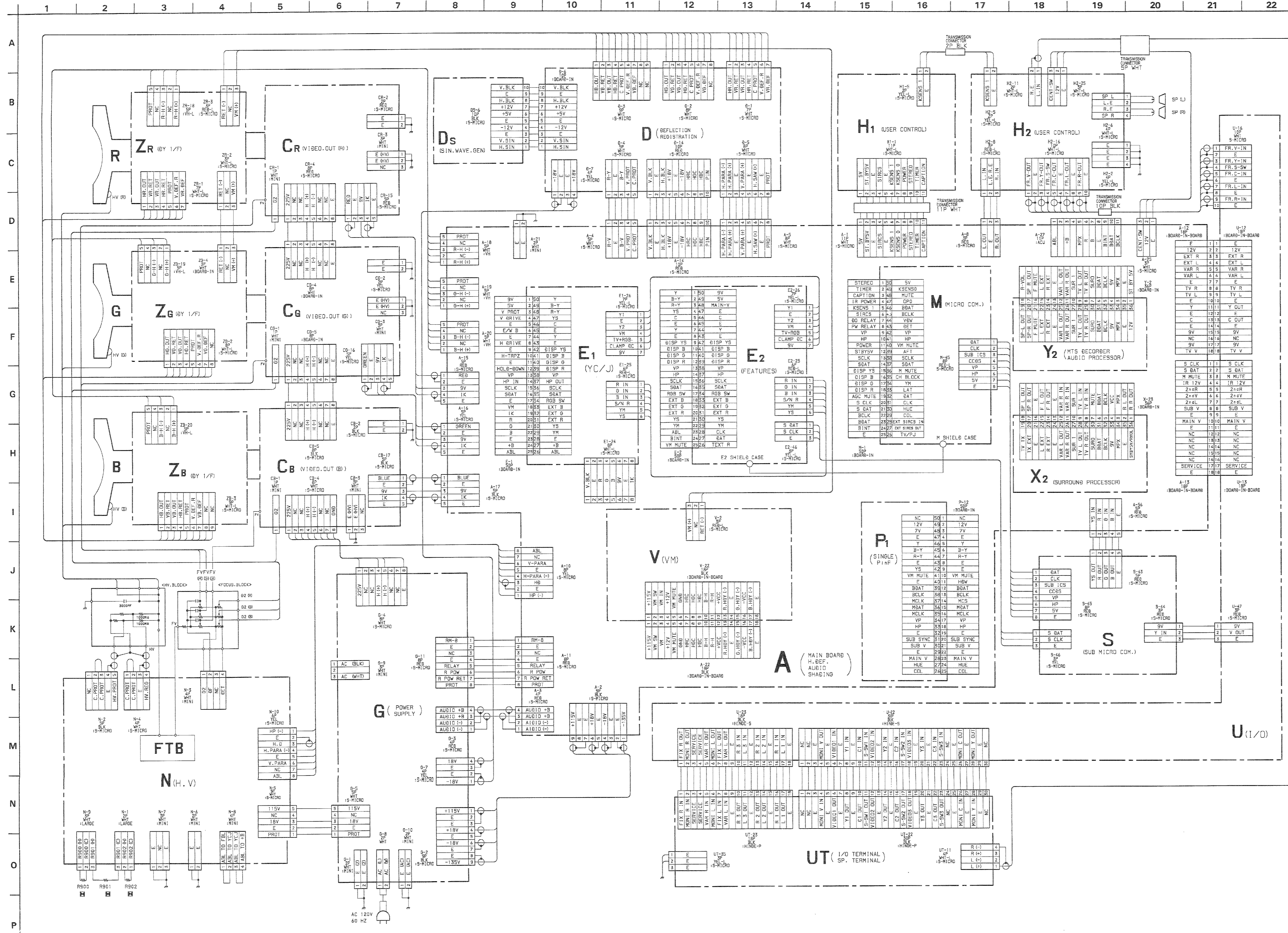
6-1. BLOCK DIAGRAM (1)





6-3.BLOCK DIAGRAM (3)





6-6. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:
 • All capacitors are in μF unless otherwise noted. pF = μF 50WV or less are not indicated except for electrolytics and tantalums.
 • All electrolytics are in 50V unless otherwise specified.
 • All resistors are in ohms.
 $k \Omega = 1000 \Omega$, $M \Omega = 1000k \Omega$
 • Indication of resistance, which does not have one for rating electrical power, is as follows.
 Pitch: 5mm
 Rating electrical power: $\frac{1}{2}W$

• Chips resistors are 1/10W.
 • \square : nonflammable resistor.
 • \square : internal component.
 • Δ : panel designation and adjustment for repair.
 • All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
 • \perp : earth-ground
 • \perp : earth-chassis
 • The components identified by \square in this manual 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 \square , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by \square and repeat the adjustment until the specified value is achieved.
 (Refer to R652, R852, R900, R901, and R902 adjustment on Page 53~56.)
 When replacing the part in below table, be sure to perform the related adjustment.

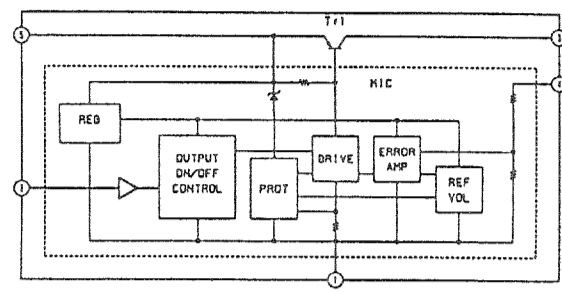
- Reference information
- RESISTOR : RN METAL FILM
 : RC SOLID
 : FFRD NONFLAMMABLE CARBON
 : FUSE NONFLAMMABLE FUSIBLE
 : RS NONFLAMMABLE METAL OXIDE
 : RB NONFLAMMABLE CEMENT
 : RW NONFLAMMABLE WIREWOUND
 : * ADJUSTMENT RESISTOR
 : LF-SL MICRO INDUCTOR
- COIL : TA TANTALUM
 CAPACITOR : PS STYROL
 : PP POLYPROPYLENE
 : PT MYLAR
 : MPS METALIZED POLYESTER
 : MPP METALIZED POLYPROPYLENE
 : ALB BIPOLAR
 : ALT HIGH TEMPERATURE
 : ALR HIGH RIPPLE
- Readings are taken with a color-bar signal input.
 • Readings are taken with a 10M Ω digital multimeter.
 • Voltage are dc with respect to ground unless otherwise noted.
 • Voltage variations may be noted due to normal production tolerances.
 • All voltages are in V.
 • Circled numbers are waveform references.
 • \perp : B+ bus.
 • \perp : signal path.

Part replaced (\square)	Adjustment (\square)
HV Block IC803, IC805, D805, D807 C817, C818, C821, C836, C837, R824, R825, R827, R828, R834, R835, R836, R864, R865, R866, R902	N Board HV Regulator (R902)
HV Block IC803, IC804, Q804, D805 D808, C809, C819, C820, C822, C823, C850, R807, R826, R829, R832, R833, R837, R838, R839, R840, R841, R892, R893, R900, R901	N Board HV Hold down (R900, R901)
Q818, C821, D628, C634, R639, R649, R652, R655, R656,	G Board OVP (R652)
IC802, Q805, Q807, D811, C812, C810, C824, C825, C826, C827, C831, R810, R843, R844, R847, R848, R849, R850, R851, R852, R853, R854, R861	N Board Beme current protector ①R852 ②R852
IC804, Q804, Q808, D808, D809, C809, C828, C829, C830, C831, R807, R839, R840, R841, R847, R848, R849, R850, R851, R852, R855, R856, R857, R861	N Board

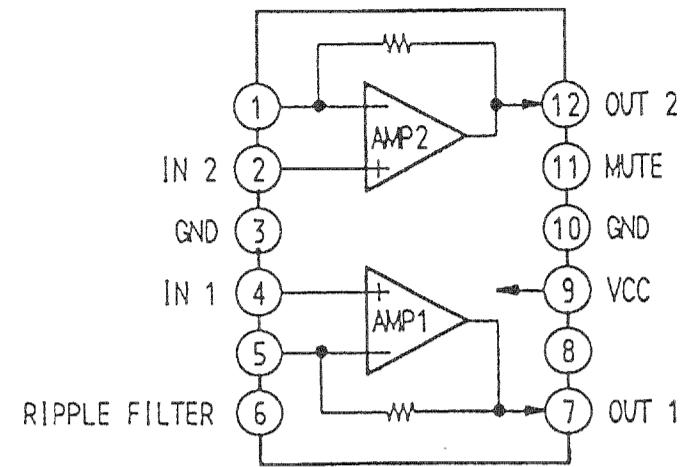
Note: The components identified by shading and mark \square are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par une trame et par une marque \square sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

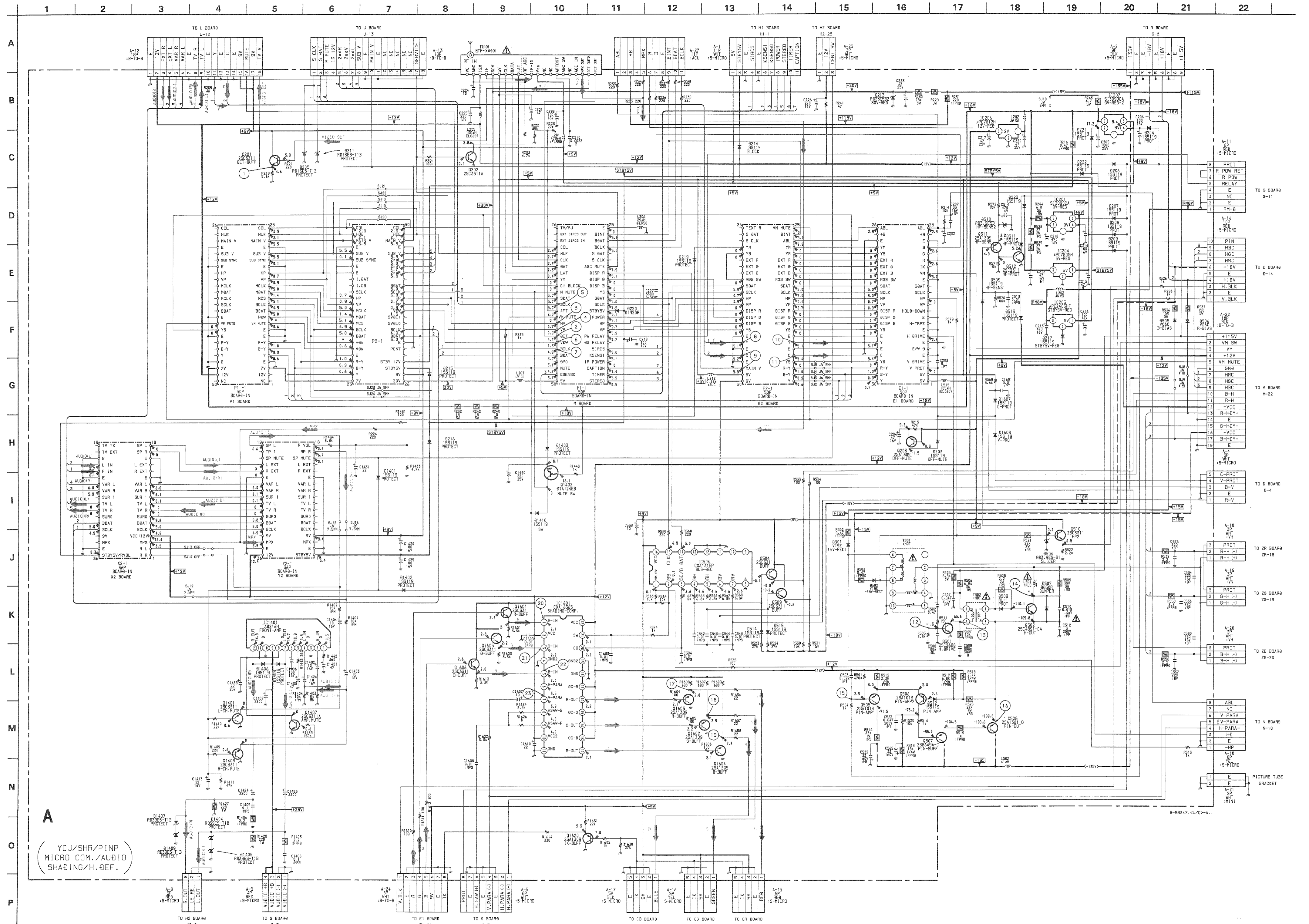
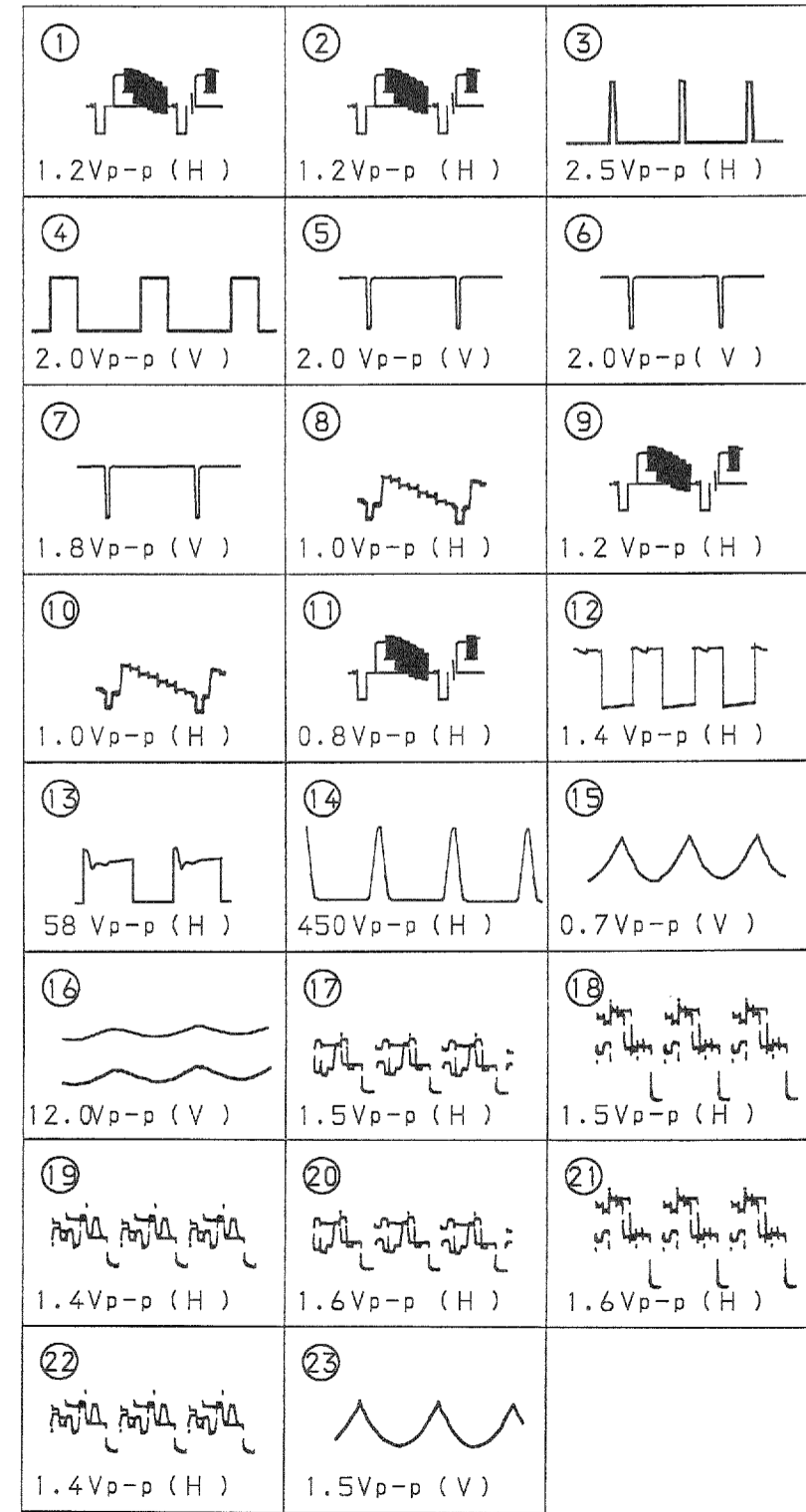
• A BOARD IC201,207 SI-3090CA



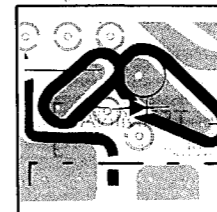
• A BOARD IC1401 TA8216H



• A BOARD WAVEFORMS



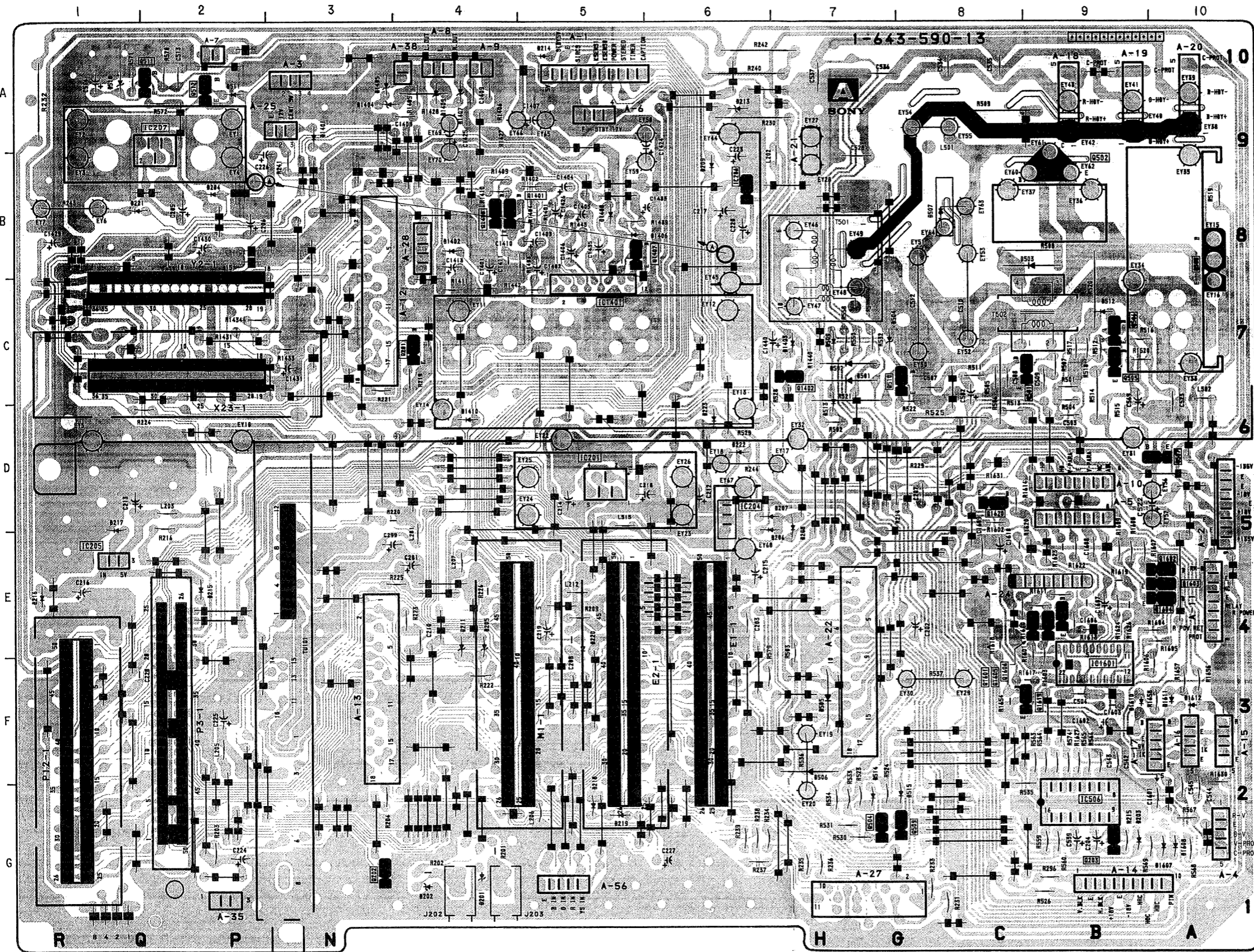
A
(YCJ/SHR/P/INP
MICRO COM./AUDIO
SHADING/H.DEF.



NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

A Y/C JUNGLE, SHR, P IN P, μ CON,
AUDIO SHADING, H DEF

- A BOARD -

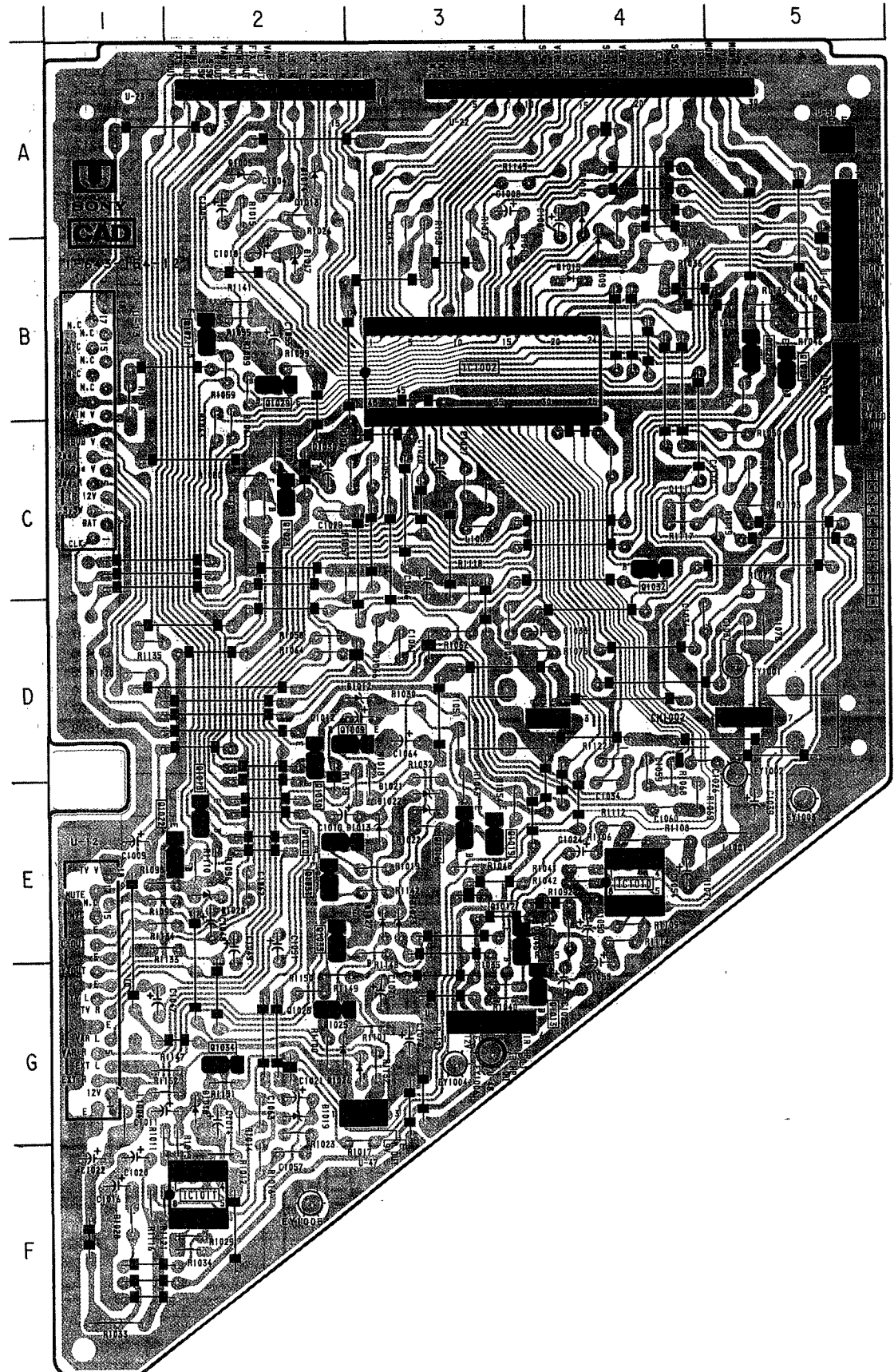


IC		TRANSISTOR		DIODE	
IC201	D-5	D211	E-4	D203	G-9
IC204	D-6	D213	A-6	D204	B-2
IC205	E-1	D214	A-5	D205	E-4
IC207	B-6	D215	E-2	D206	D-7
IC207	A-2	D216	E-1	D207	D-7
IC506	G-9	D217	E-1	D208	E-7
IC1401	C-5	D219	G-5	D209	B-6
IC1601	F-9	D220	E-5		
		D221	B-1		
		D222	D-6		
		D223	D-6		
		D501	C-7		
		D502	C-7		
		D503	B-9		
		D504	C-7		
		D505	F-7		
		D506	F-7		
		D507	B-8		
		D509	C-7		
		D510	A-1		
		D511	A-2		
		D512	C-9		
		D513	D-7		
		D514	G-7		
		D515	G-8		
		D1401	A-3		
		D1402	B-4		
		D1403	C-7		
		D1404	A-3		
		D1405	A-3		
		D1406	B-5		
		D1407	A-4		
		D1408	B-5		
		D1409	A-4		
		D1410	D-4		
		D1607	G-10		
		D1608	G-10		

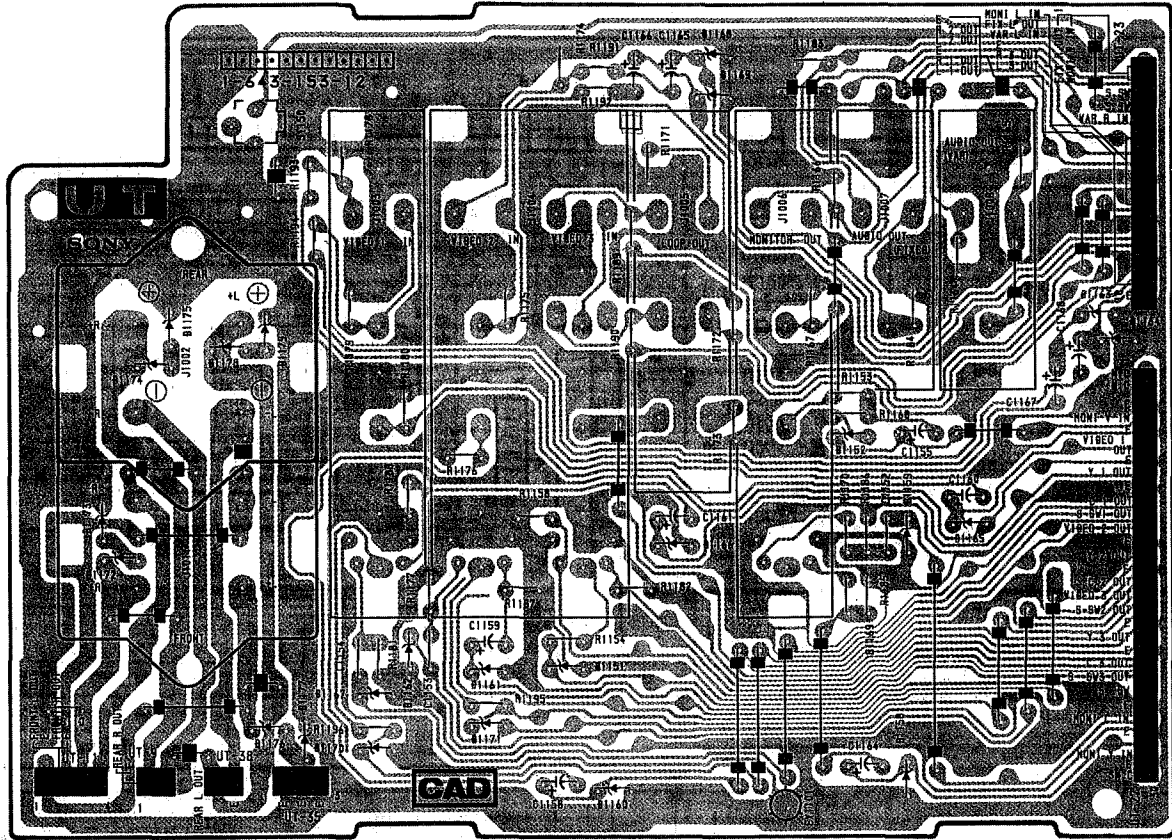
U [AUDIO IN/OUT
VIDEO IN/OUT] **UT** [IN/OUT TERMINAL,
SP. TERMINAL]

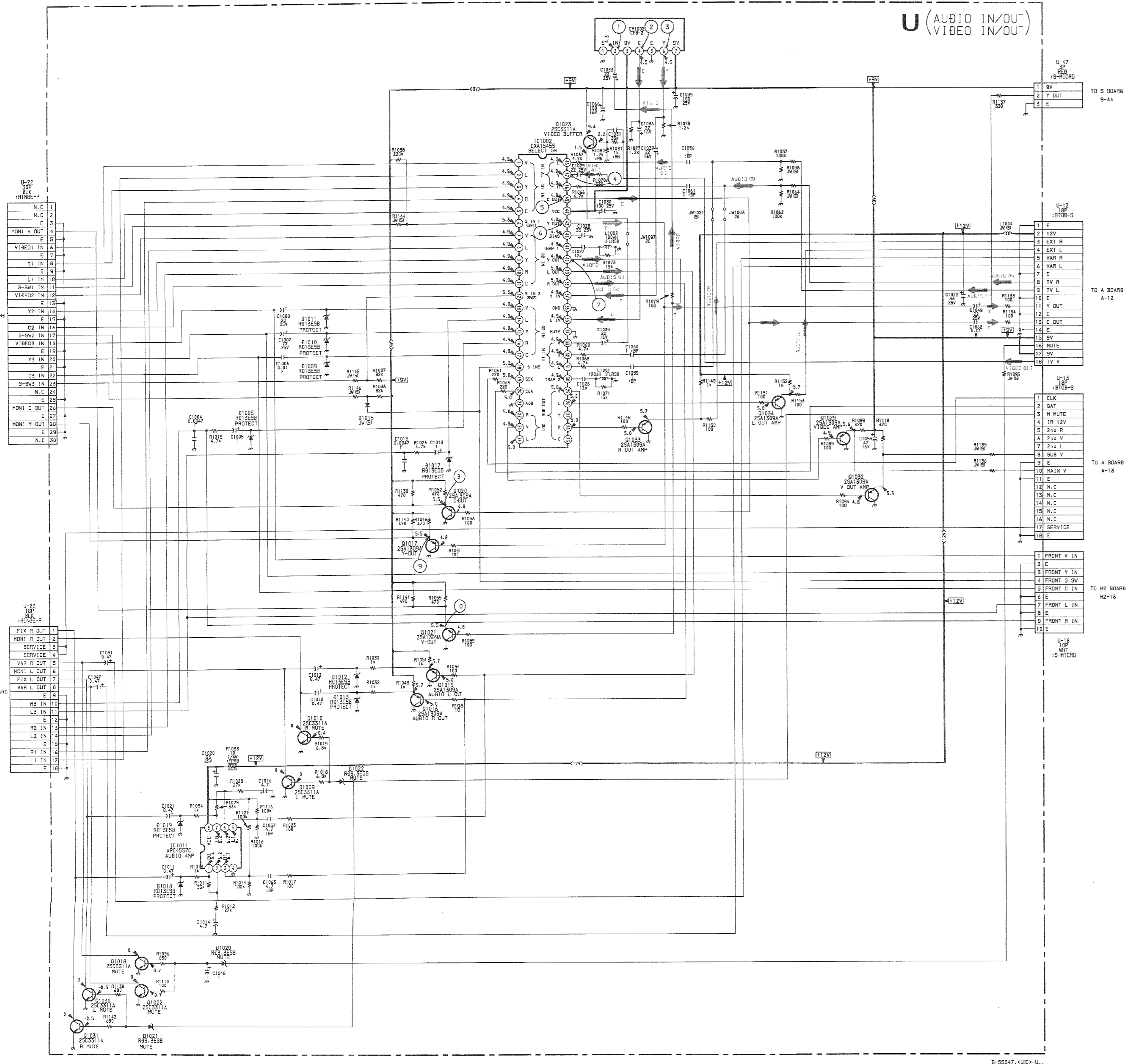
- U BOARD -

IC	
IC1002	B-3
IC1011	F-2
TRANSISTOR	
Q1009	D-2
Q1016	E-3
Q1017	B-5
Q1018	E-2
Q1019	E-3
Q1020	B-5
Q1021	B-2
Q1022	E-1
Q1023	C-2
Q1029	B-2
Q1030	D-2
Q1031	E-2
Q1032	C-4
Q1033	E-2
Q1034	G-2
DIODE	
D1005	A-2
D1009	B-4
D1010	A-4
D1011	B-3
D1012	D-3
D1013	E-3
D1015	B-4
D1017	B-2
D1018	G-2
D1019	G-2
D1020	E-2
D1021	E-3
D1022	E-3

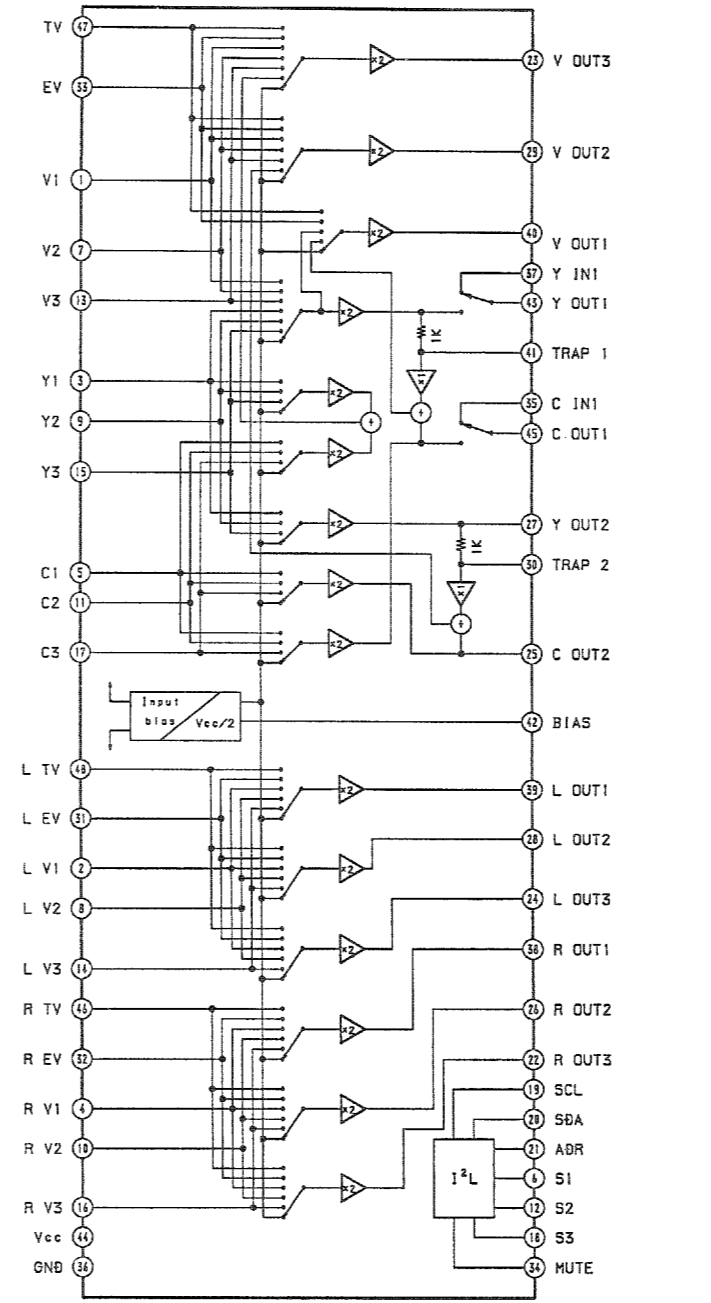


— UT BOARD —

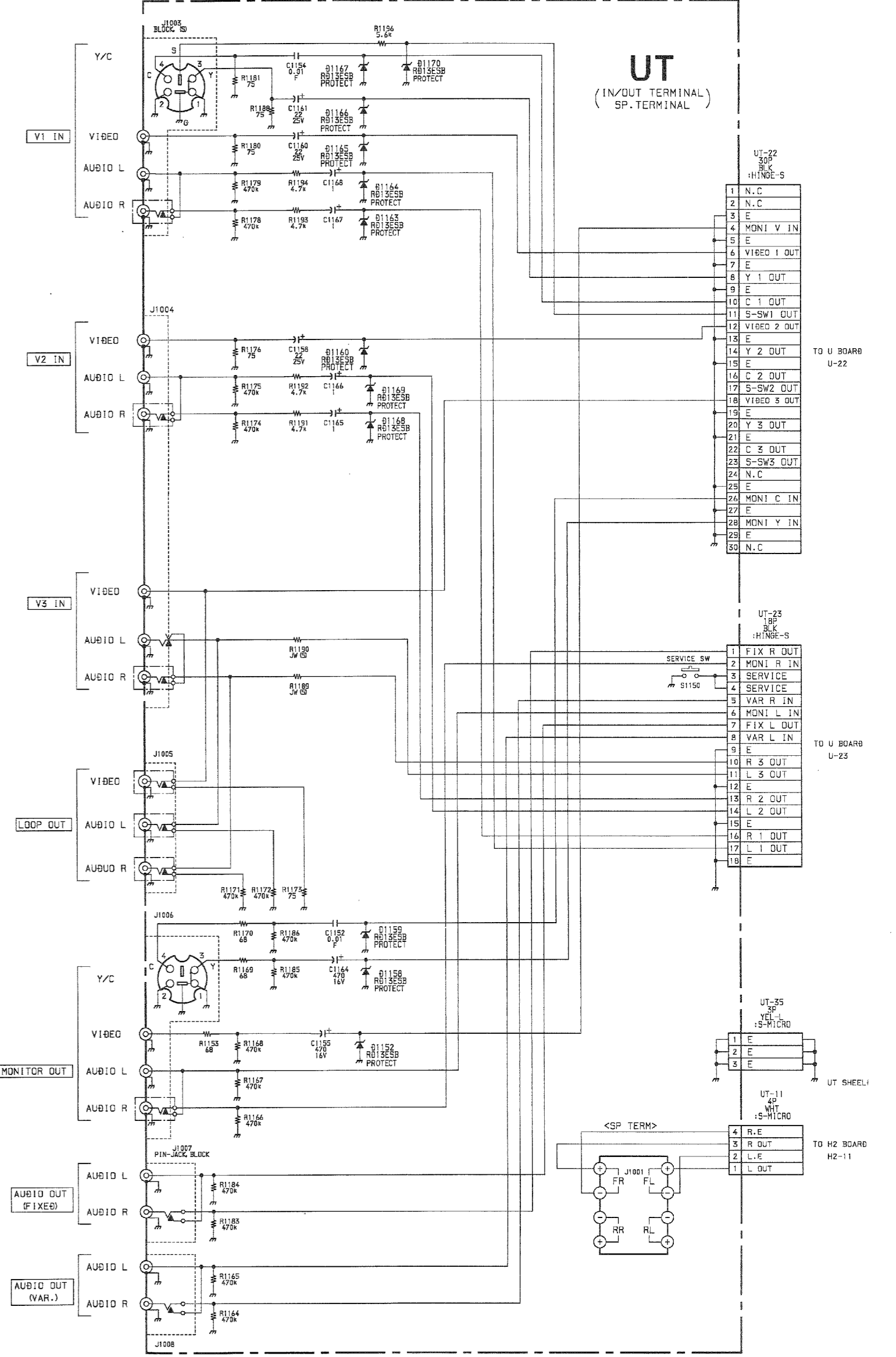
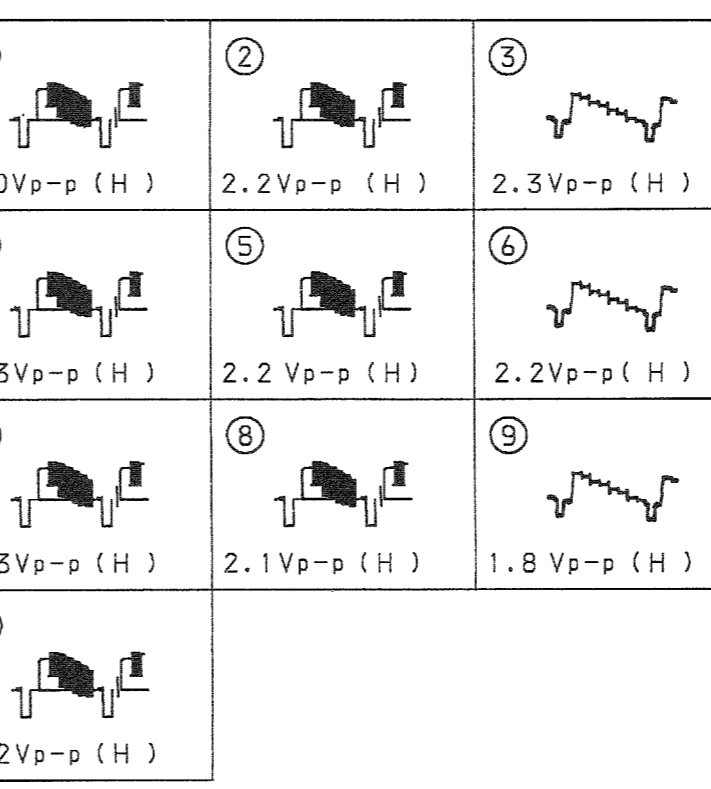




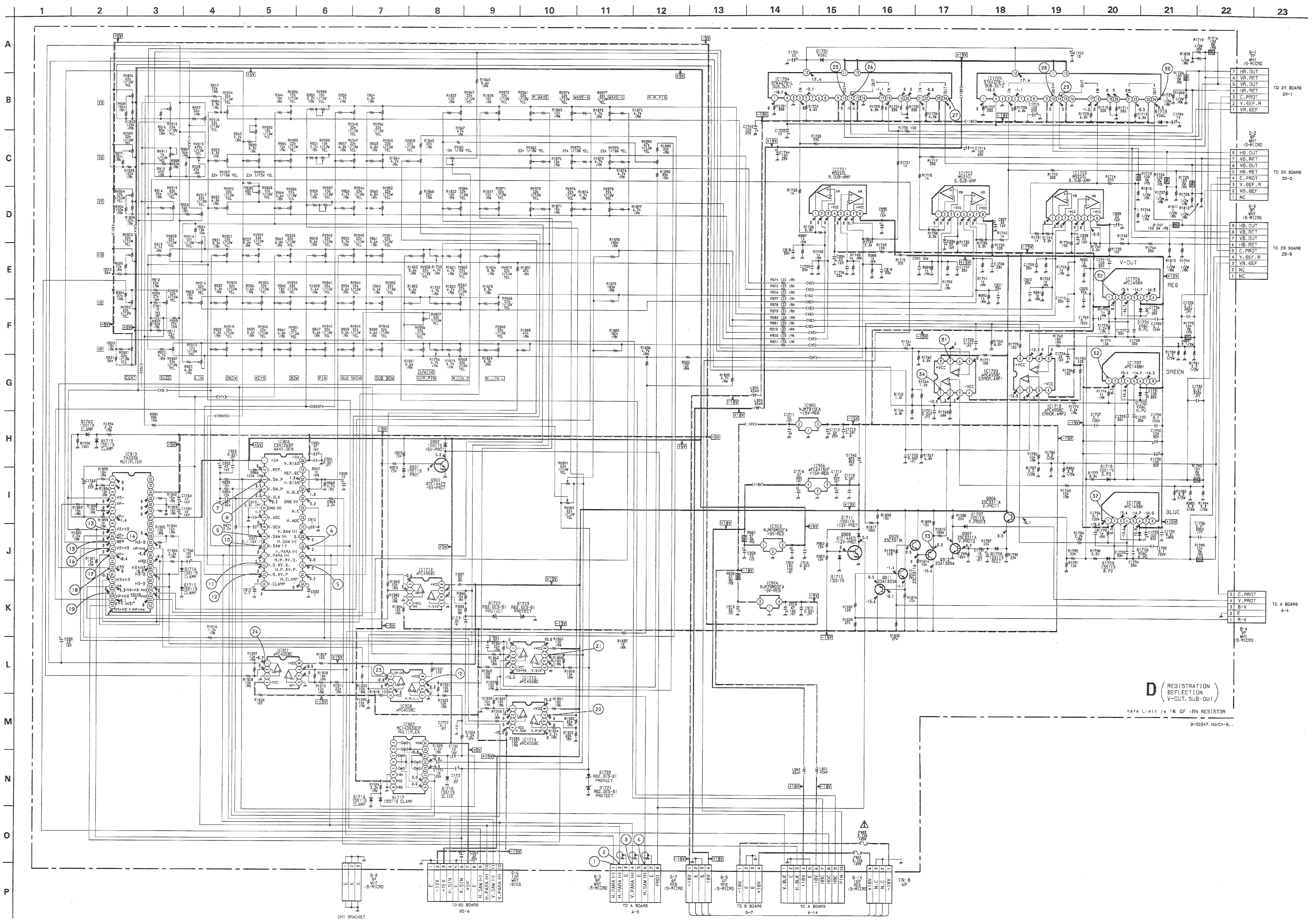
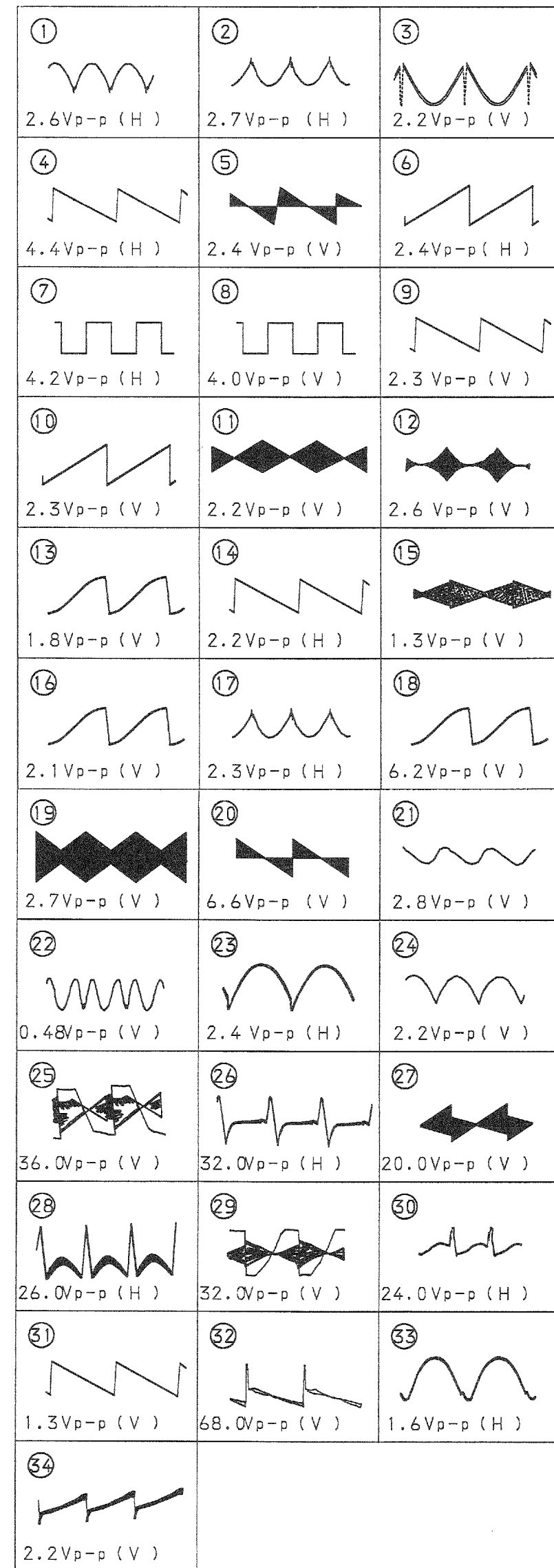
U BOARD IC1002 CXA1545S



U BOARD WAVEFORMS



• D BOARD WAVEFORMS



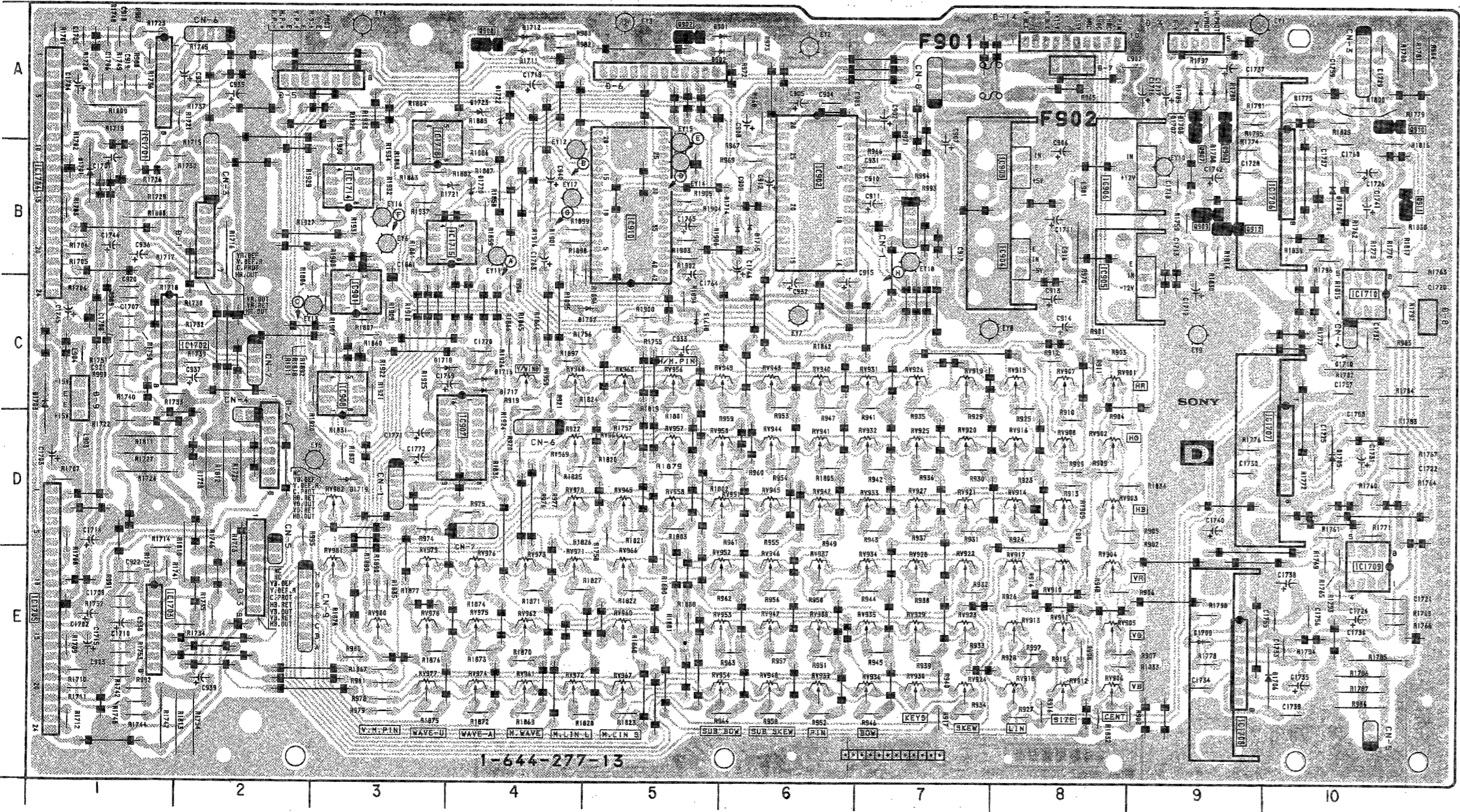
D (REGISTRATION DEFLECTION V-OUT. SUB-OUT)

NOTE LIMIT IS 1% OF 1RN RESISTOR

8-95347-4U/C-3..

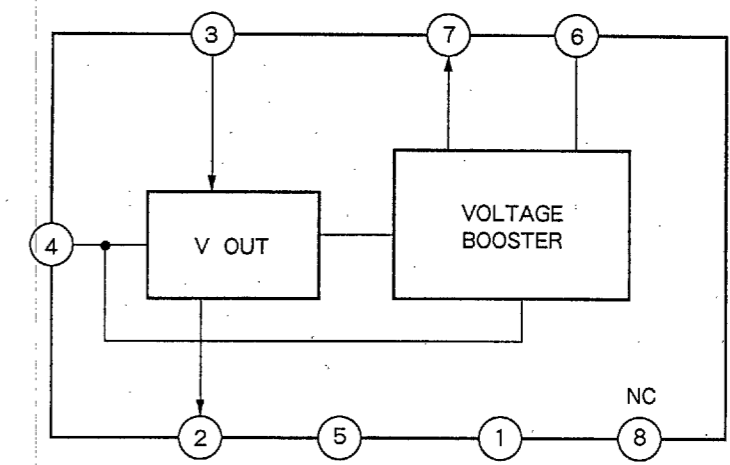
D REGISTRATION, DEFLECTION V-OUT, SUB-OUT.

- D BOARD -

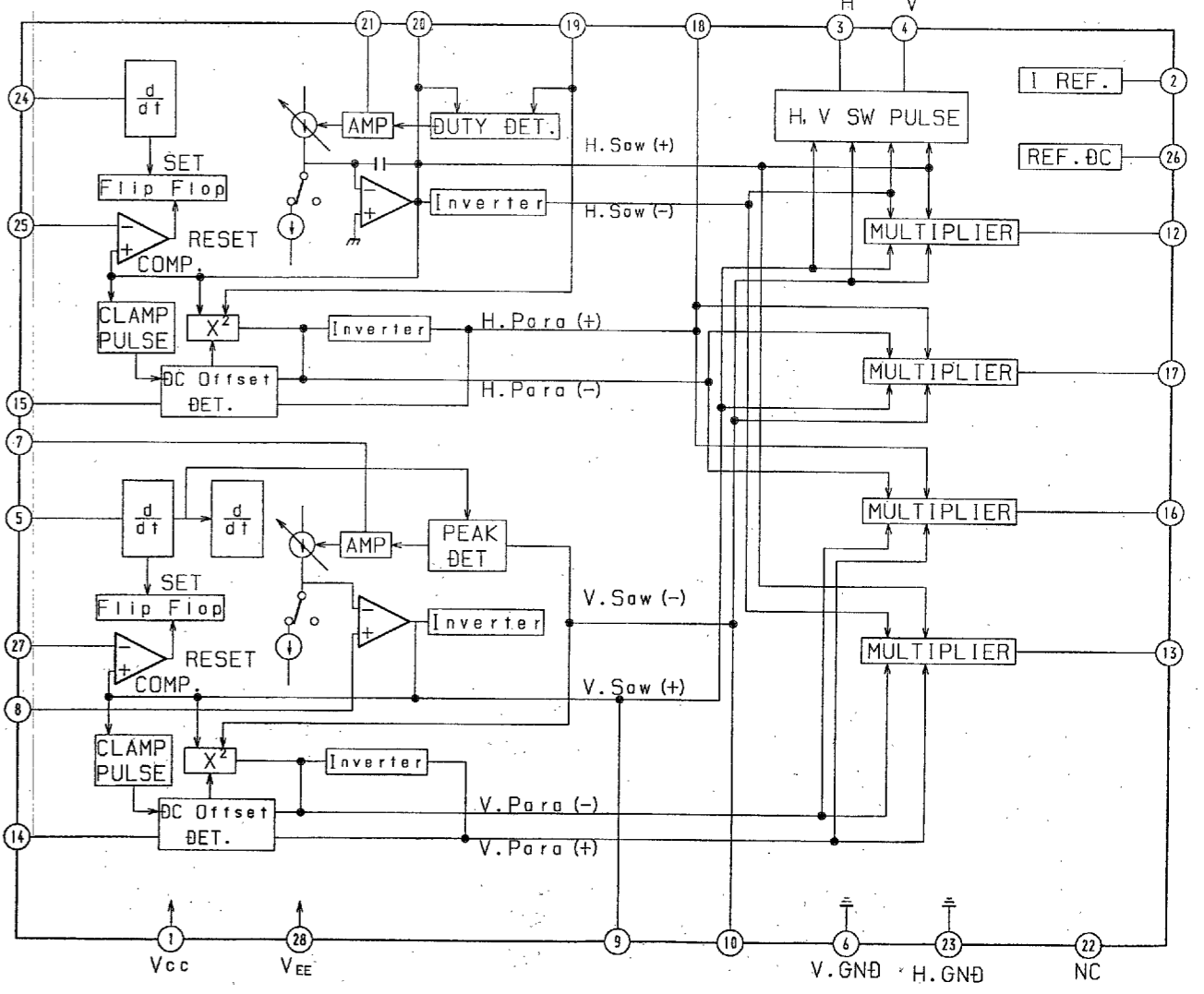


IC	VARIABLE RESISTOR	RV962 E-4
IC801 C-3	RV901 C-9	RV963 C-5
IC902 B-6	RV902 D-9	RV964 D-5
IC903 B-8	RV903 D-9	RV965 D-5
IC904 B-6	RV904 E-9	RV966 E-5
IC905 B-9	RV905 D-9	RV967 E-5
IC906 B-9	RV906 E-9	RV968 C-5
IC907 D-4	RV907 C-8	RV969 D-5
IC908 C-3	RV908 D-8	RV970 D-5
IC910 B-5	RV909 D-8	RV971 E-5
IC1701 A-1	RV910 E-8	RV972 E-5
IC1702 C-2	RV911 E-8	RV973 E-4
IC1703 E-1	RV912 E-8	RV974 E-4
IC1704 B-1	RV913 E-8	RV975 E-4
IC1705 E-1	RV914 D-8	RV976 E-4
IC1706 B-10	RV915 C-8	RV977 E-3
IC1707 D-10	RV916 D-8	RV978 E-3
IC1708 E-9	RV917 E-8	RV979 E-3
IC1709 E-10	RV918 E-8	RV980 E-3
IC1710 C-10	RV919 C-7	RV981 E-3
IC1714 B-3	RV920 D-7	RV982 D-3
IC1715 B-4	RV921 D-7	
IC1718 B-4	RV922 E-7	
	RV923 E-7	
	RV924 E-7	
	RV925 D-7	
	RV926 C-7	
	RV927 D-7	
	RV928 E-7	
	RV929 E-7	
	RV930 E-7	
	RV931 C-7	
	RV932 D-7	
	RV933 D-7	
	RV934 E-7	
	RV935 E-7	
	RV936 E-7	
	RV937 E-6	
	RV938 E-6	
	RV939 E-6	
	RV940 C-6	
	RV941 D-6	
	RV942 D-6	
	RV943 C-6	
	RV944 D-6	
	RV945 D-6	
	RV946 E-6	
	RV947 E-6	
	RV948 E-6	
	RV949 C-6	
	RV950 D-6	
	RV951 D-6	
	RV952 E-6	
	RV953 E-6	
	RV954 E-6	
	RV955 C-5	
	RV956 C-5	
	RV957 D-5	
	RV958 D-5	
	RV959 C-4	
	RV960 E-5	
	RV961 E-4	

D BOARD IC1706,1707,1708 μ PC1498H

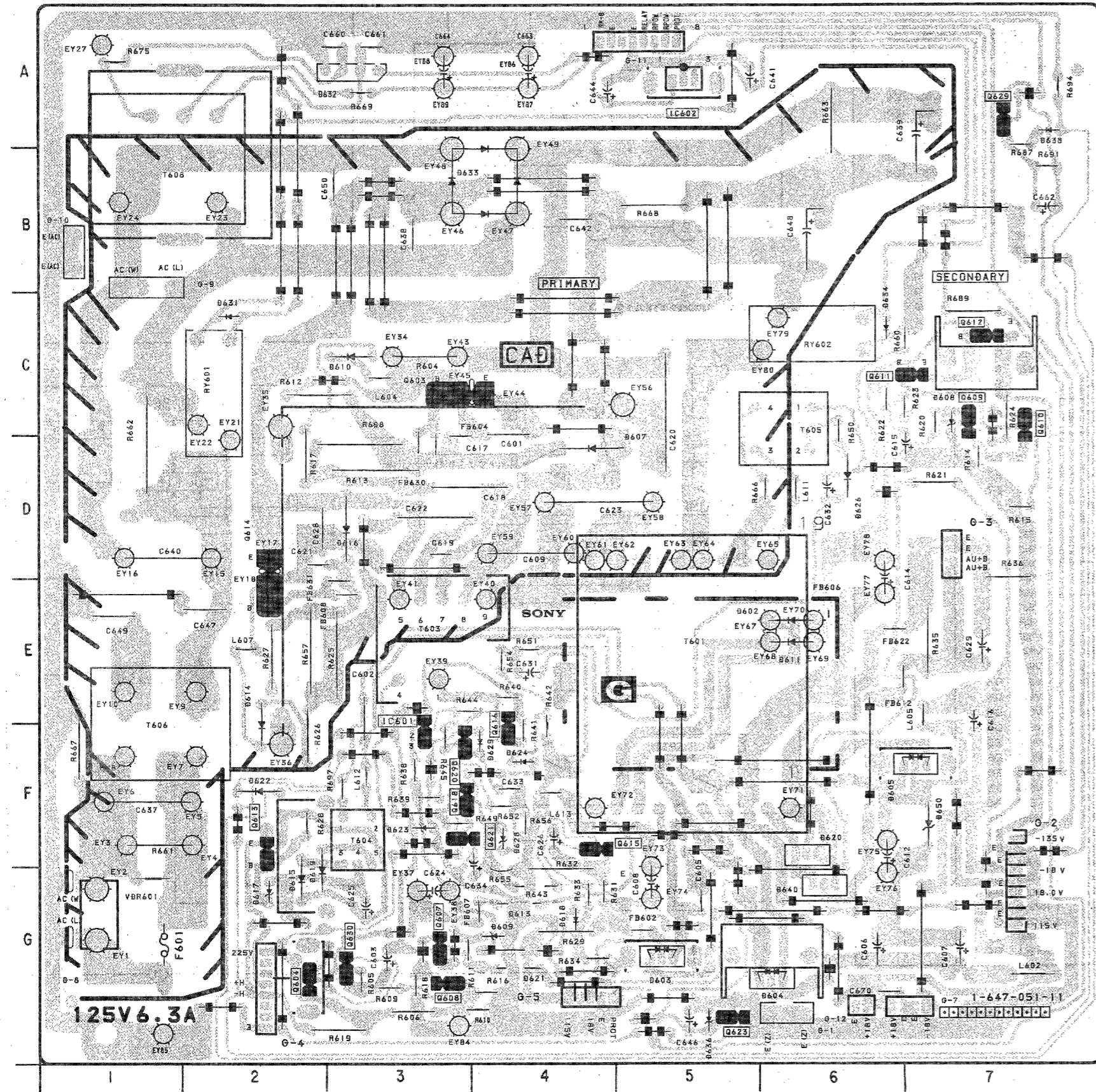


D BOARD IC902 CXA1268P



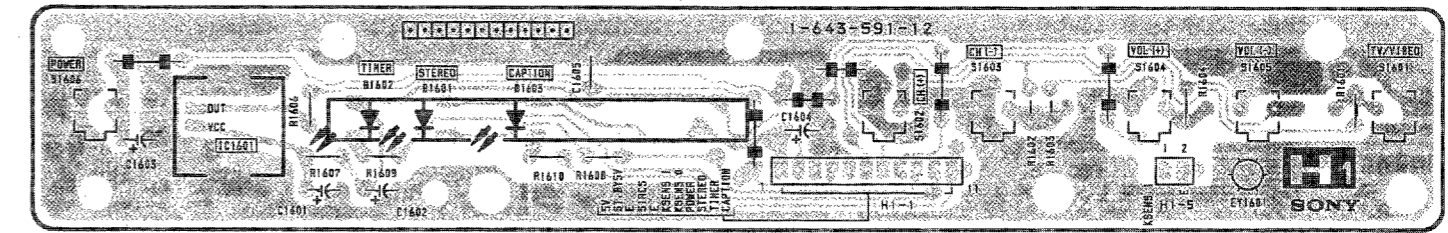
G [POWER SUPPLY] **H1** [USER CONTROL] **H2** [USER CONTROL] **DS** [SIN. WAVE GEN.]

- G BOARD -

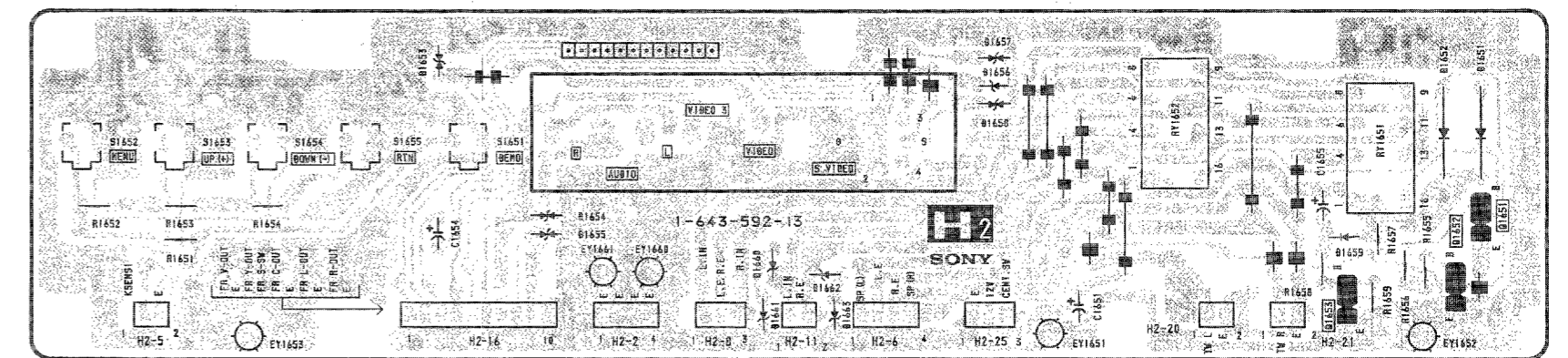


IC	
IC601	E-3
IC602	A-5
TRANSISTOR	
Q603	C-3
Q604	G-2
Q607	G-3
Q608	G-3
Q609	C-7
Q610	C-7
Q611	C-7
Q612	C-7
Q613	F-2
Q614	D-2
Q615	F-4
Q616	E-4
Q618	F-3
Q620	F-3
Q621	F-3
Q623	G-5
Q628	A-7
Q630	G-3
DIODE	
D602	E-6
D603	G-5
D604	G-6
D605	F-7
D607	D-4
D608	C-7
D609	G-4
D610	C-3
D611	E-6
D613	G-4
D614	E-2
D615	G-2
D616	D-3
D617	G-2
D618	G-4
D619	F-2
D620	F-6
D621	G-4
D622	F-2
D623	F-3
D624	F-4
D626	D-6
D628	F-4
D629	F-4
D631	C-2
D632	A-3
D633	B-4
D634	C-6
D636	G-5
D638	A-7
D640	G-6
D650	F-7

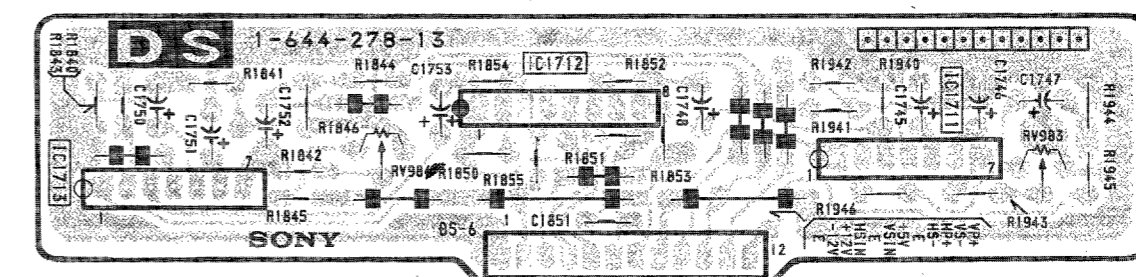
- H1 BOARD -

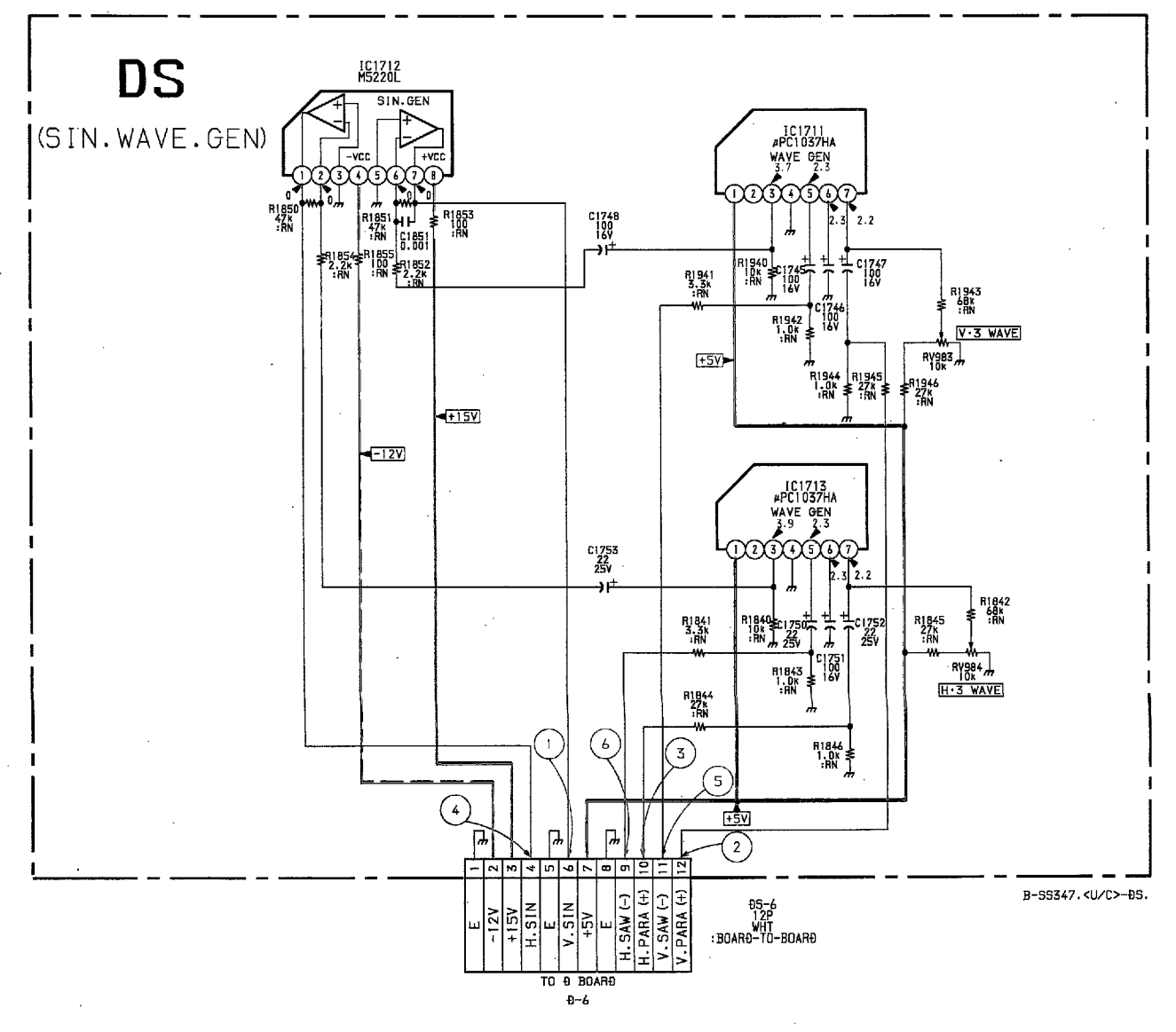
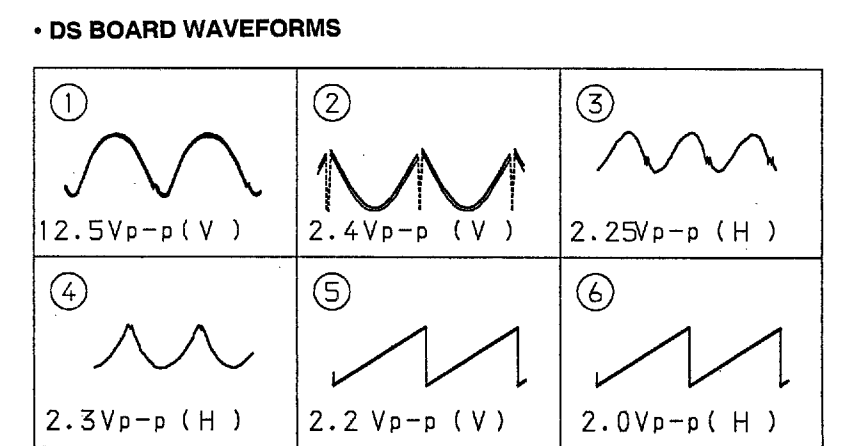
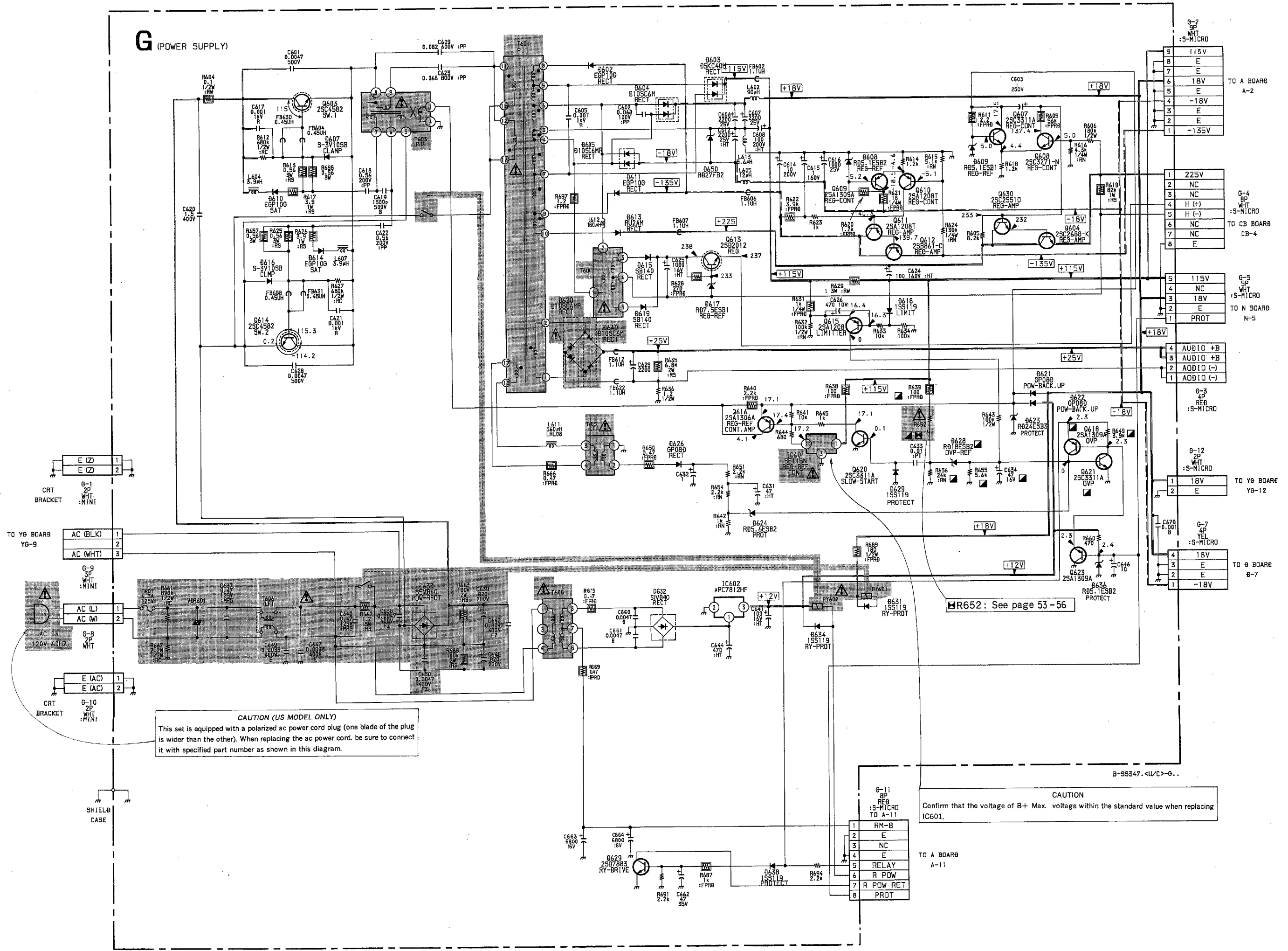
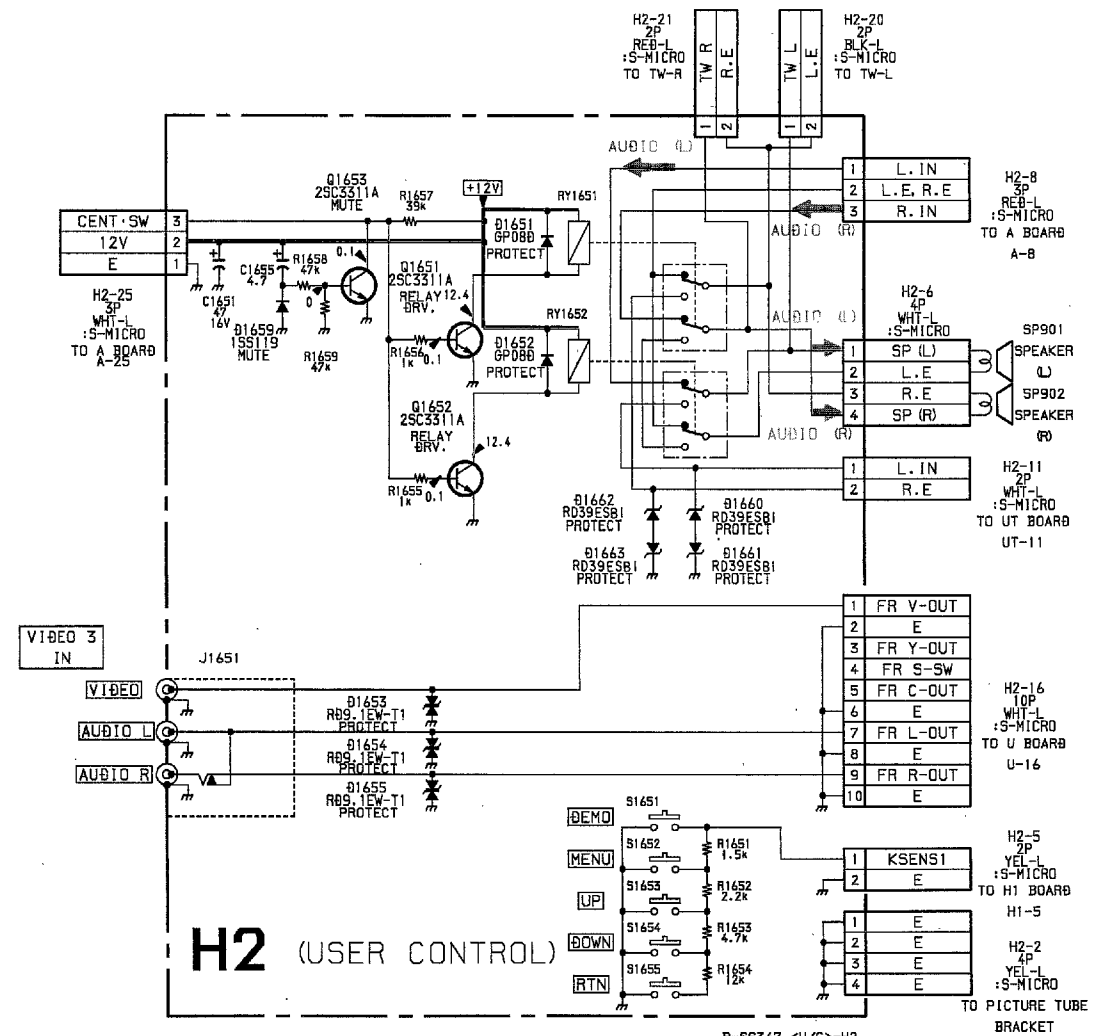
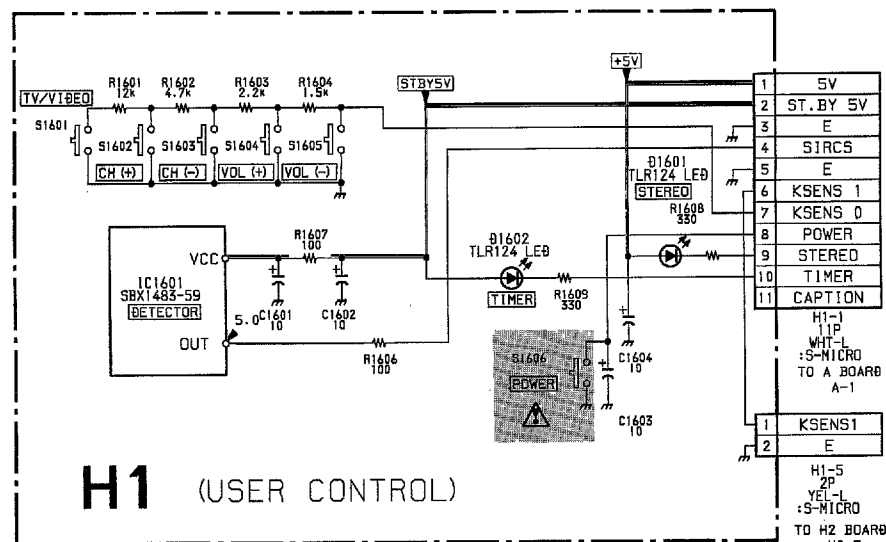


- H2 BOARD -



- DS BOARD -



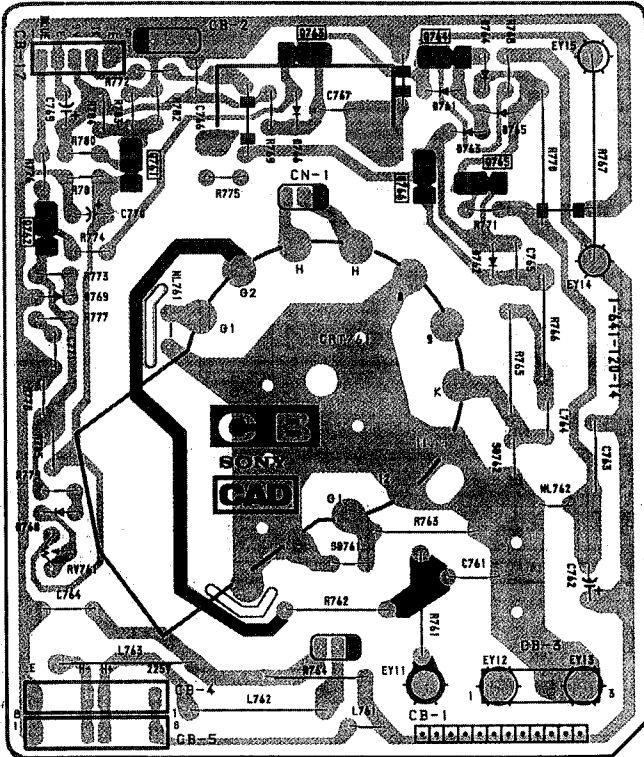


CAUTION (US MODEL ONLY)
This set is equipped with a polarized ac power cord plug (one blade of the plug is wider than the other). When replacing the ac power cord, be sure to connect it with specified part number as shown in this diagram.

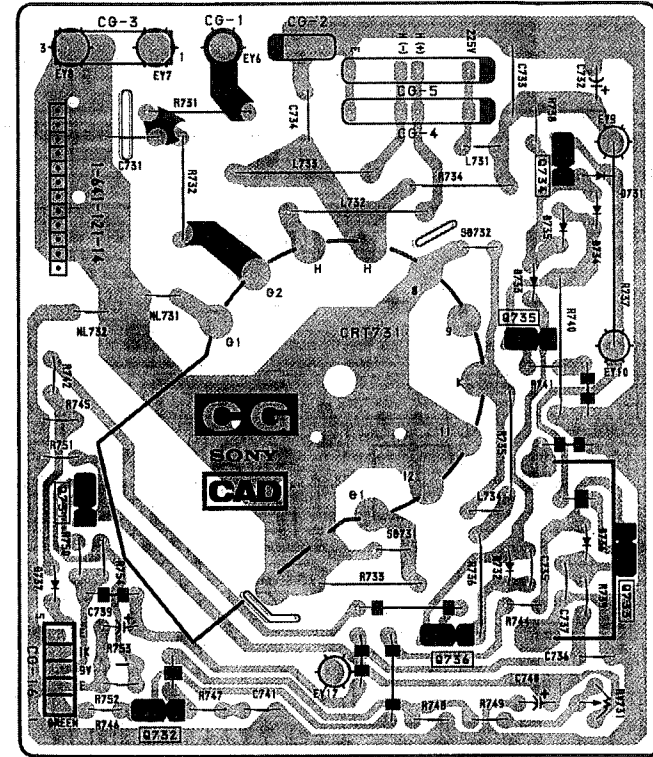
CAUTION
Confirm that the voltage of B+ Max. voltage within the standard value when replacing IC601.

CB [B OUT] **CG** [G OUT] **CR** [R OUT] **ZB** [DY I/F] **ZG** [DY I/F] **ZR** [DY I/F] **V** [VM]

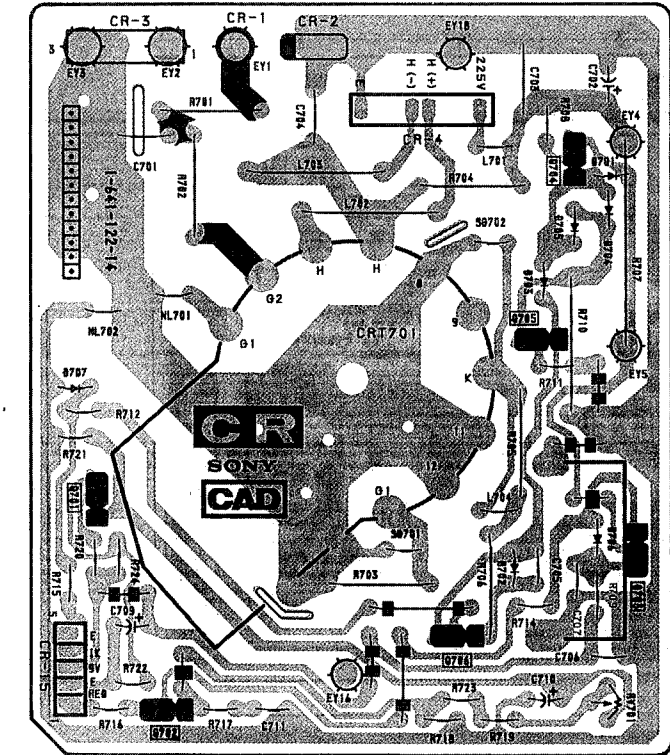
- CB BOARD -



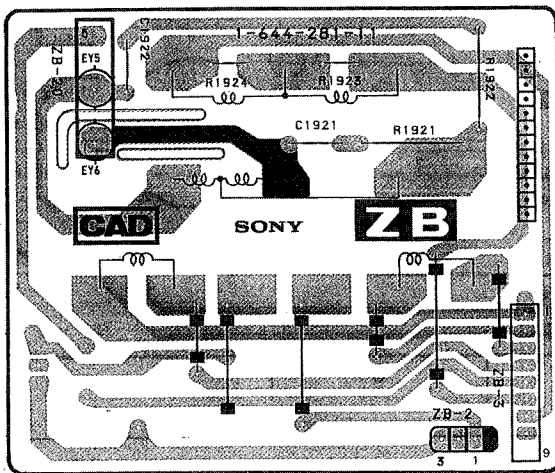
- CG BOARD -



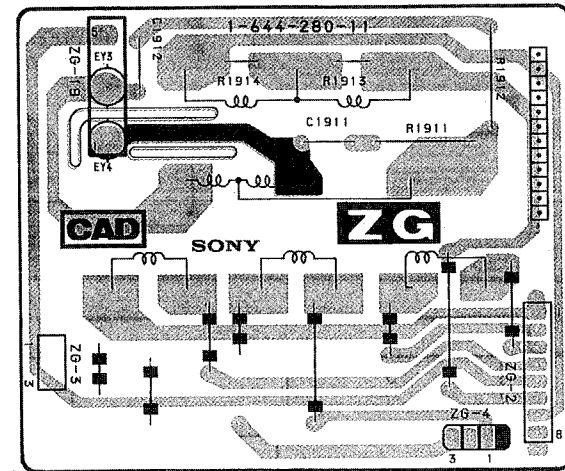
- CR BOARD -



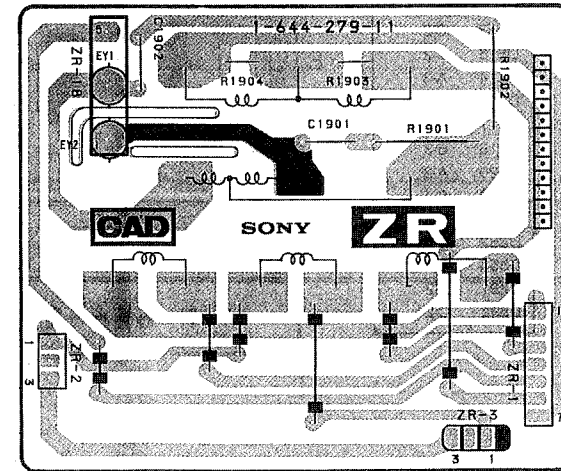
- ZB BOARD -



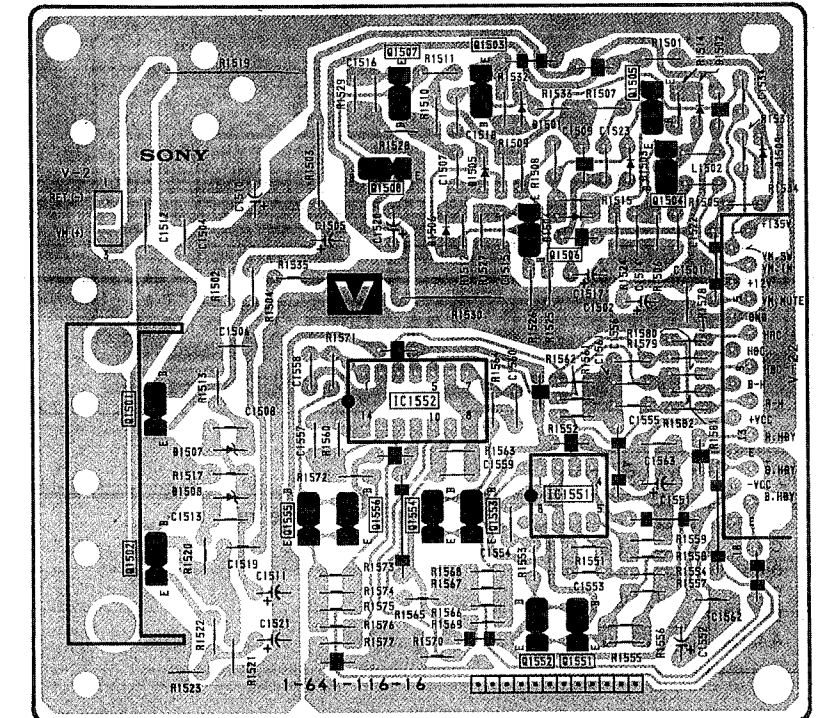
- ZG BOARD -



- ZR BOARD -

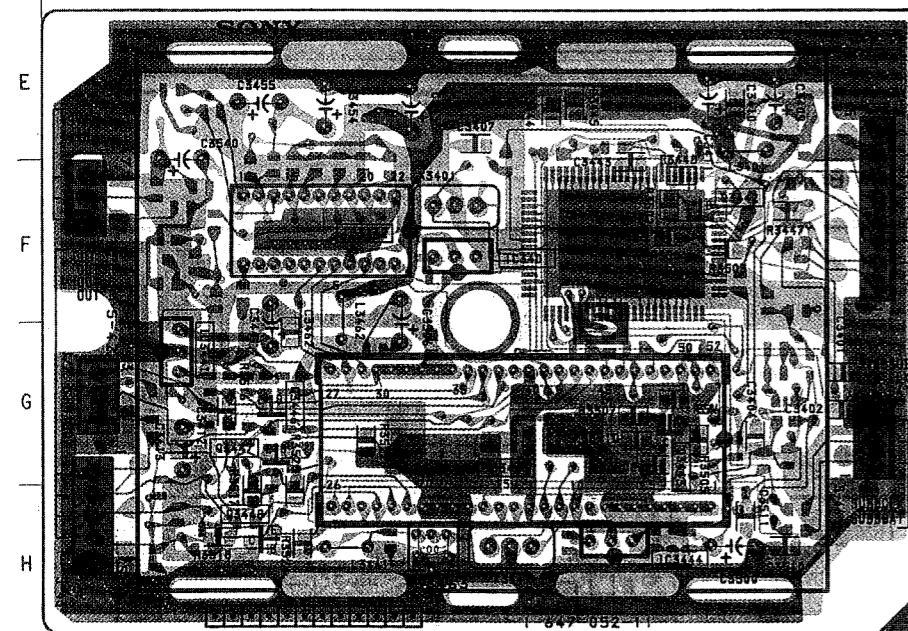
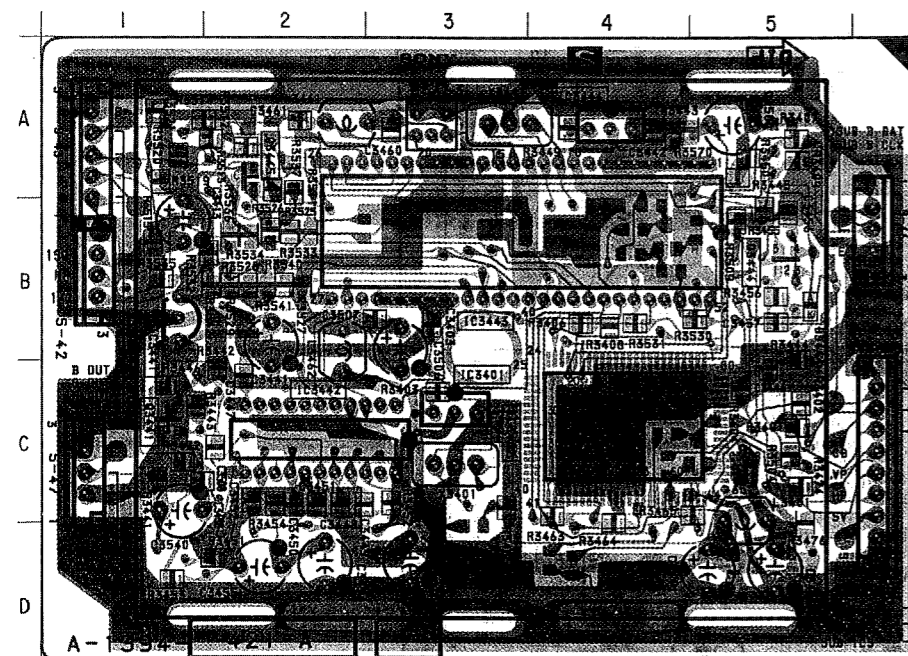


- V BOARD -



S [SUB-CONTROL, μ -CON,
CLOSED CAPTAIN DECORDER] **N** [H.V.]

- S BOARD -



IC	TRANSISTOR	DIODE
IC3401	C-3, F-1	Q3441 C-1
IC3402	C-3	Q3444 B-5
IC3441	B-1, G-1	DIODE
IC3442	C-2, F2	
IC3443	B-3, G-3	D3444 B-5
IC3444	A-4, H-4	

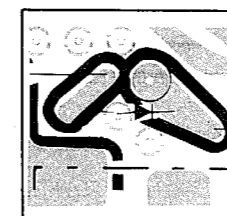
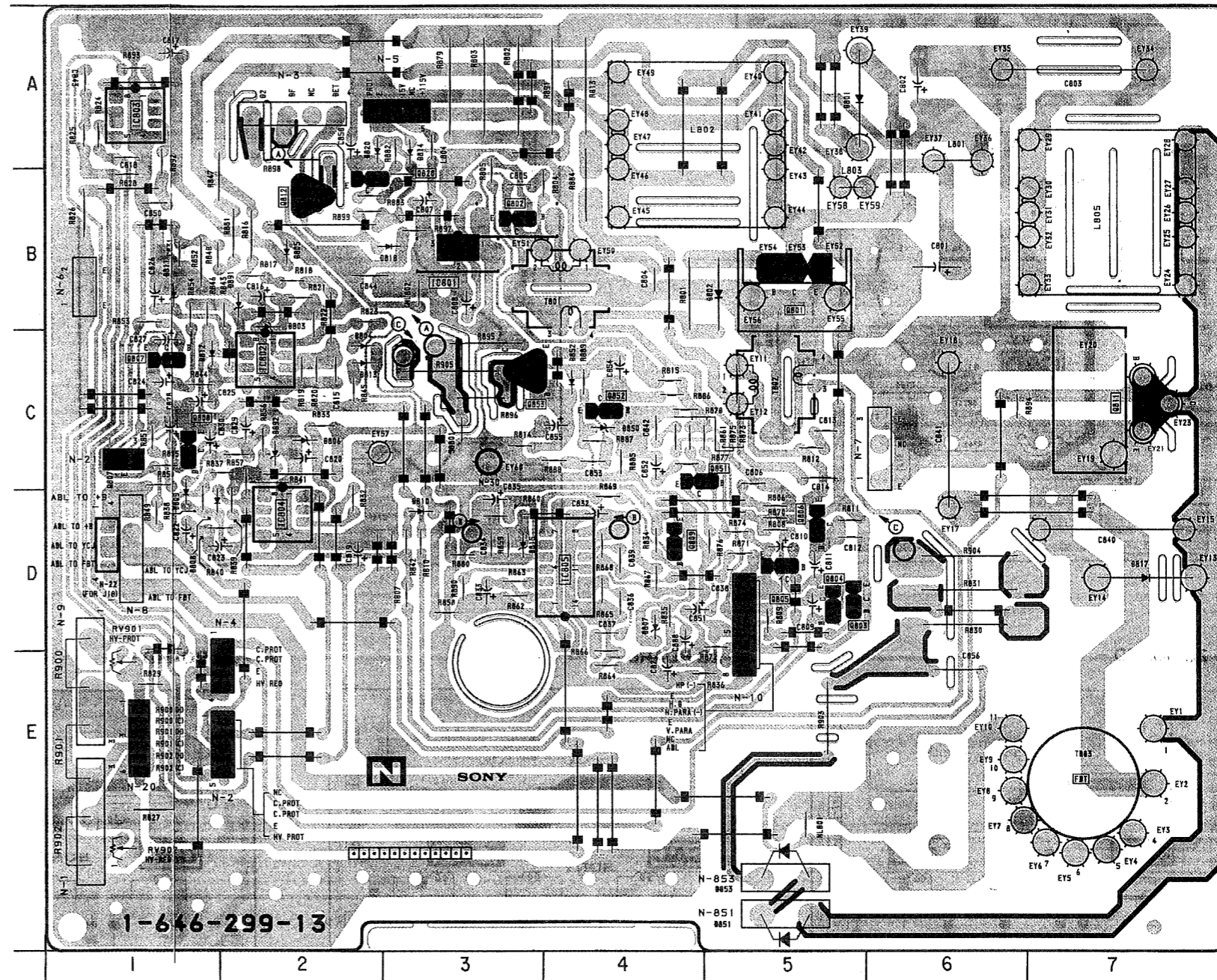
: Pattern from the side which enables seeing.
 : Pattern of the rear side.

- N BOARD -

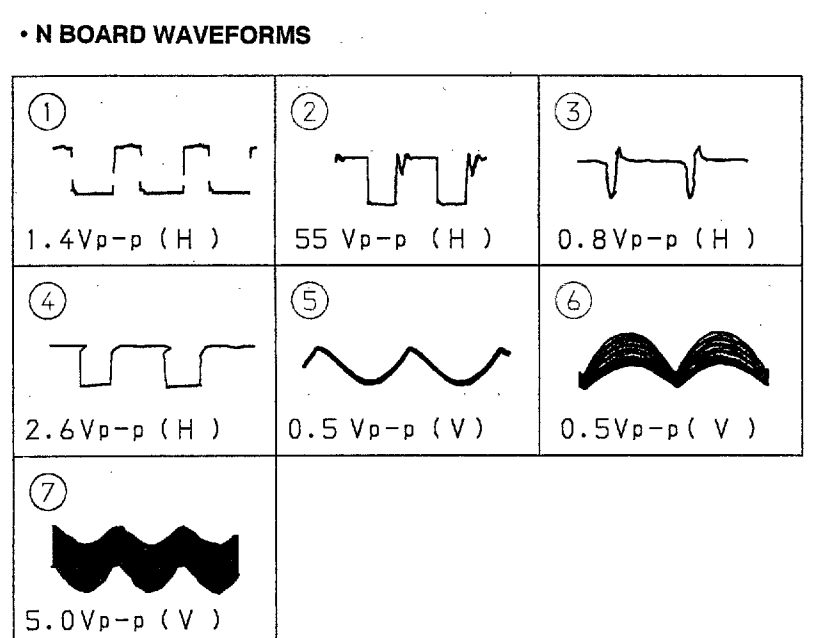
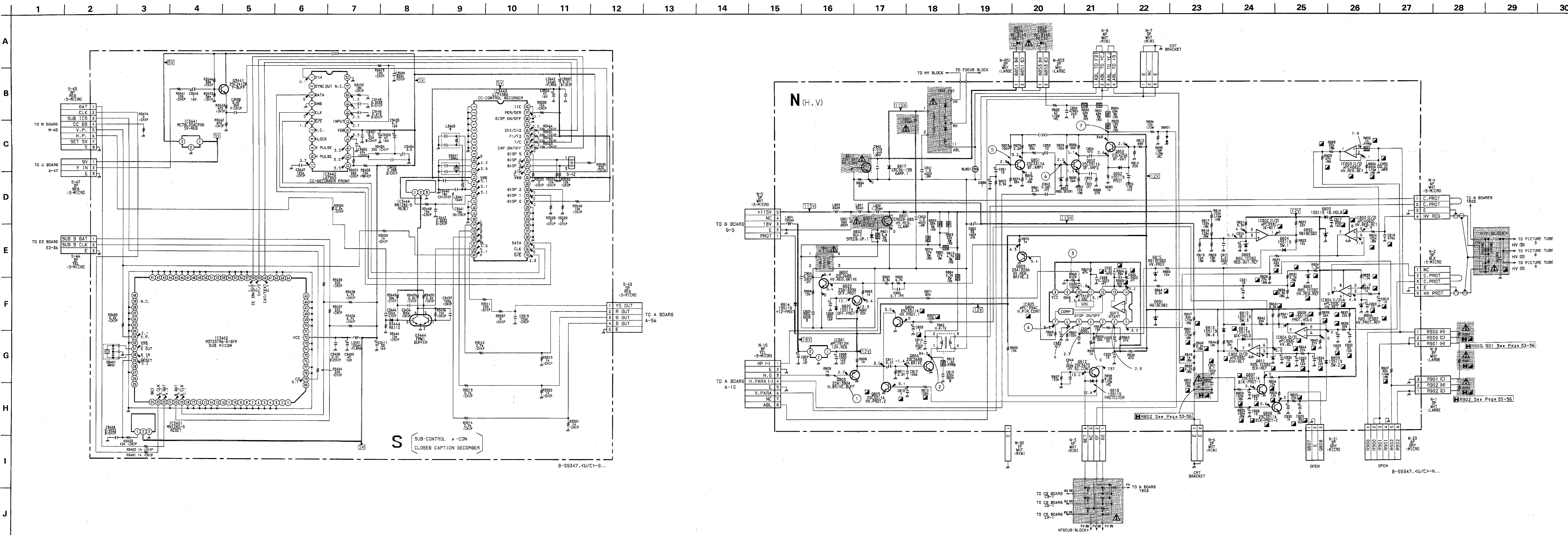
IC	
IC801	B-3
IC802	C-2
IC803	A-1
IC804	D-2
IC805	D-4

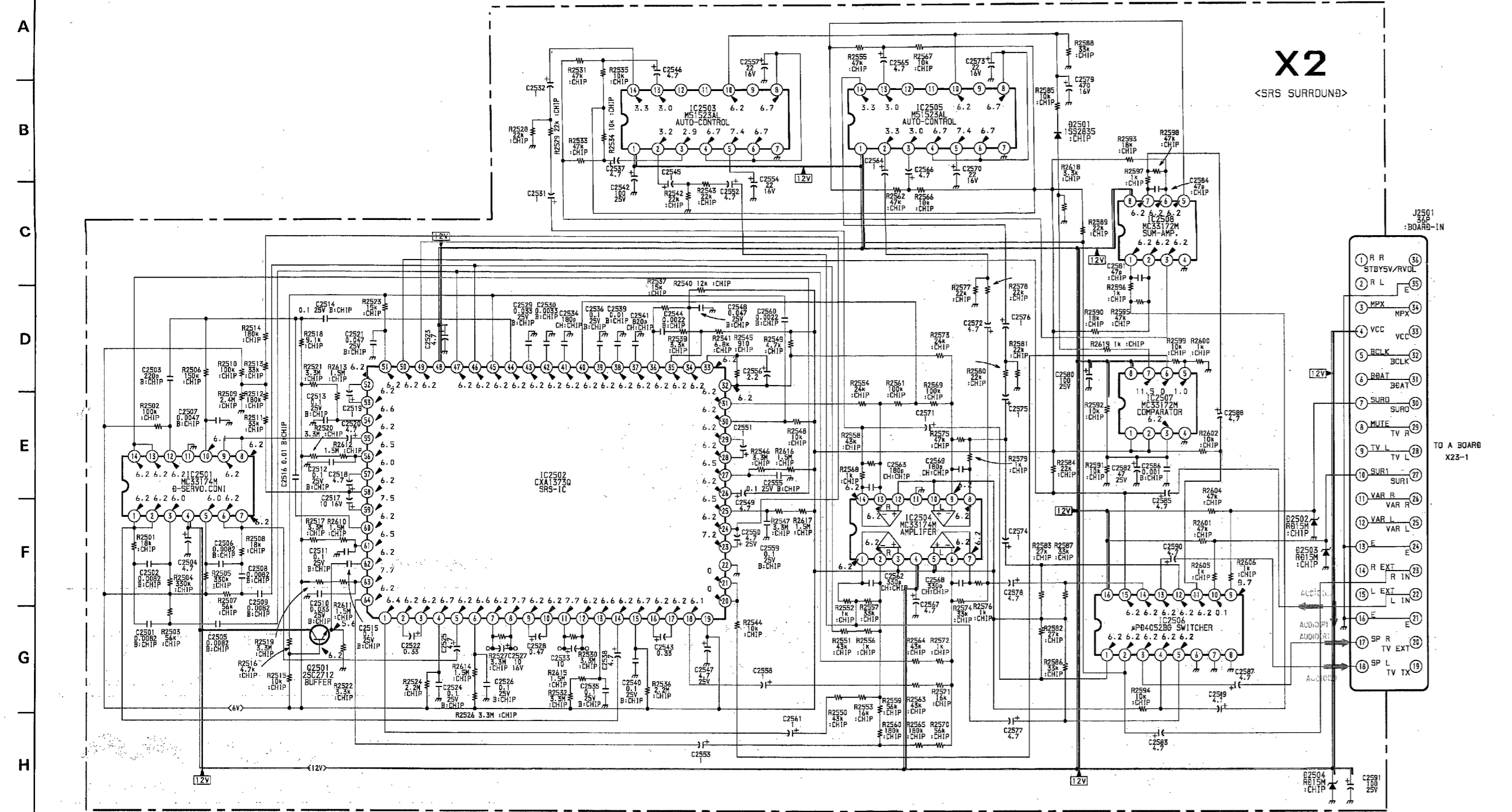
TRANSISTOR	
Q801	B-5
Q802	B-3
Q803	D-6
Q804	D-5
Q805	D-5
Q806	D-5
Q807	C-1
Q808	C-1
Q809	D-4
Q811	C-7
Q812	B-2
Q820	B-3
Q851	C-5
Q852	C-4
Q853	C-4

DIODE	
D801	A-6
D802	B-5
D803	B-2
D804	C-2
D805	B-2
D806	C-2
D807	D-4
D808	D-2
D809	D-1
D810	D-3
D811	B-1
D812	C-2
D813	C-2
D814	A-3
D815	D-3
D817	D-7
D818	B-3
D820	A-3
D850	C-4
D851	E-5
D852	C-4
D853	E-5
D891	B-2
D892	C-2



NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.



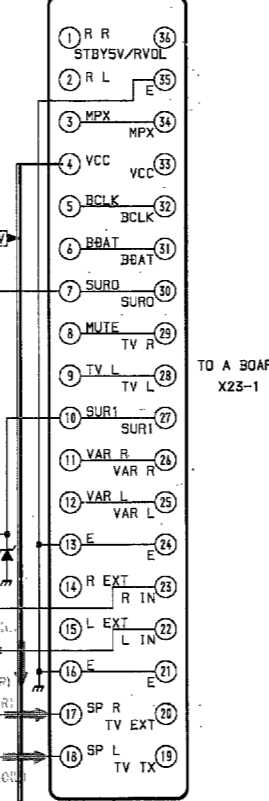


X2
<SRS SURROUND>

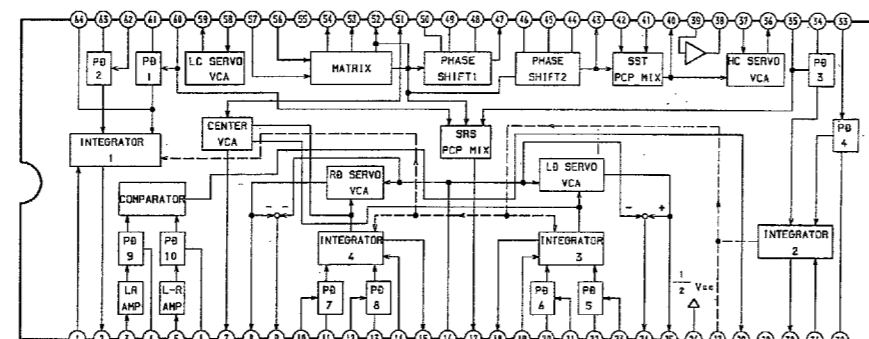
IC	
IC2501	G-3
IC2502	C-2
IC2503	A-1
IC2504	E-4
IC2505	A-2
IC2506	G-4
IC2507	E-5
IC2508	H-4

TRANSISTOR	
Q2501	G-2

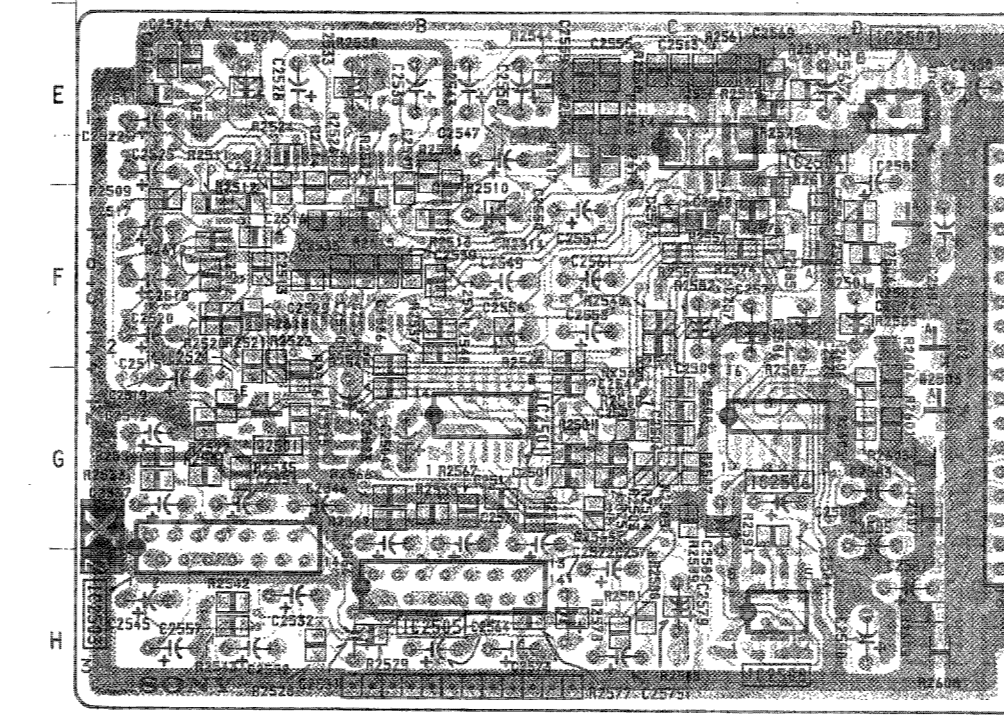
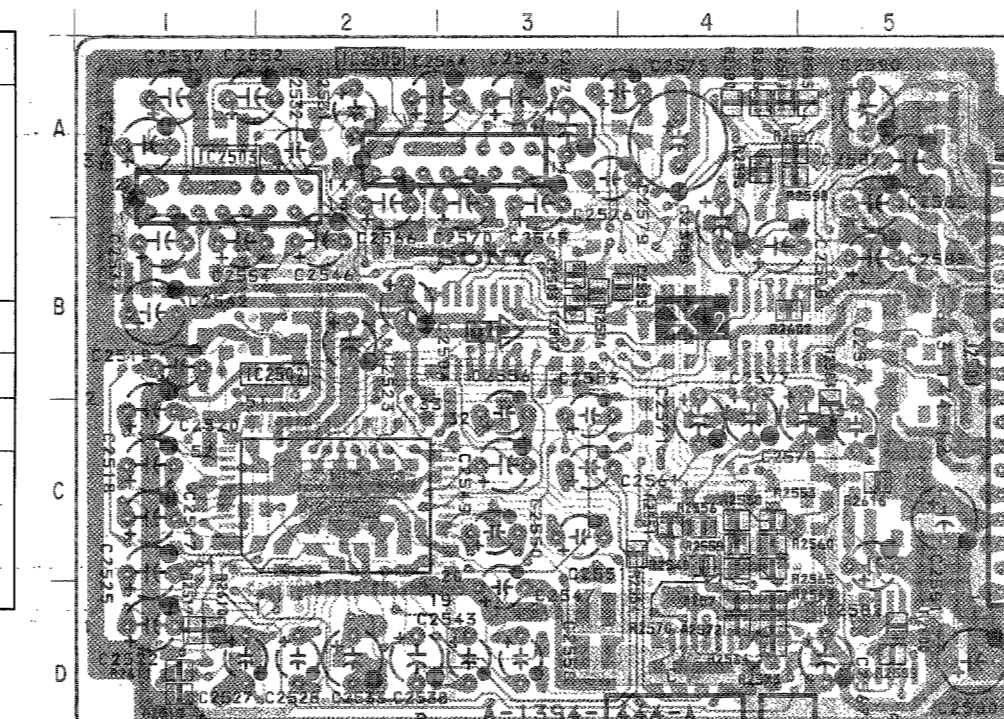
DIODE	
D2501	F-5
D2502	F-5
D2503	G-5
D2504	F-5



• X2 BOARD IC2502 CXA1373Q



- X2 BOARD -



TO A BOARD X2S-1

ALC IN

AUDIO IN

AUDIO OUT

ALC OUT

ALC IN

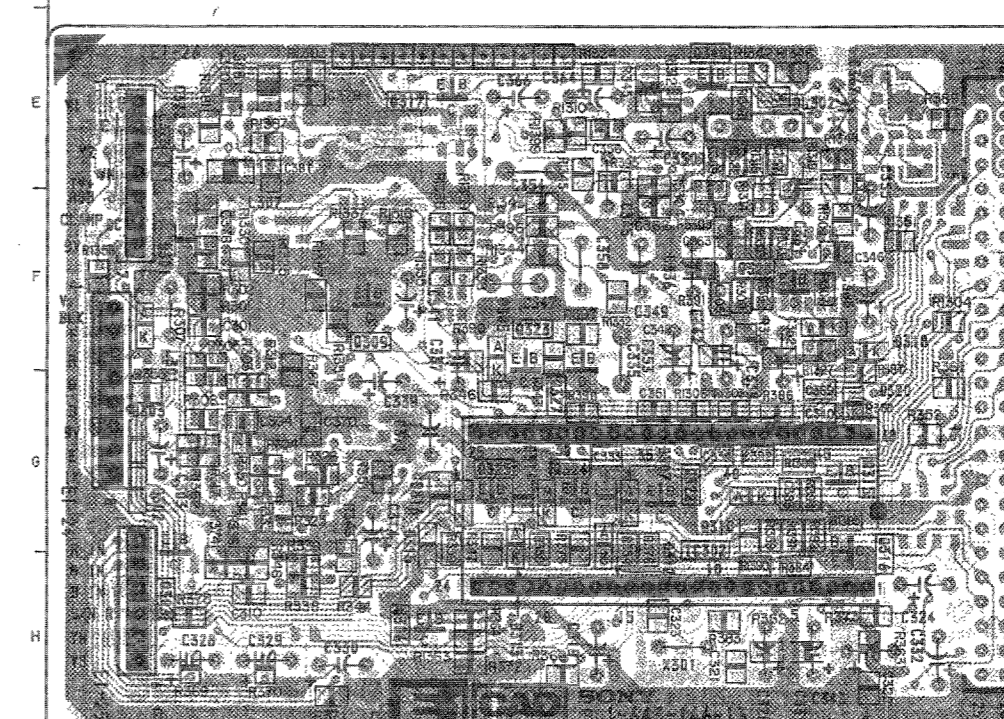
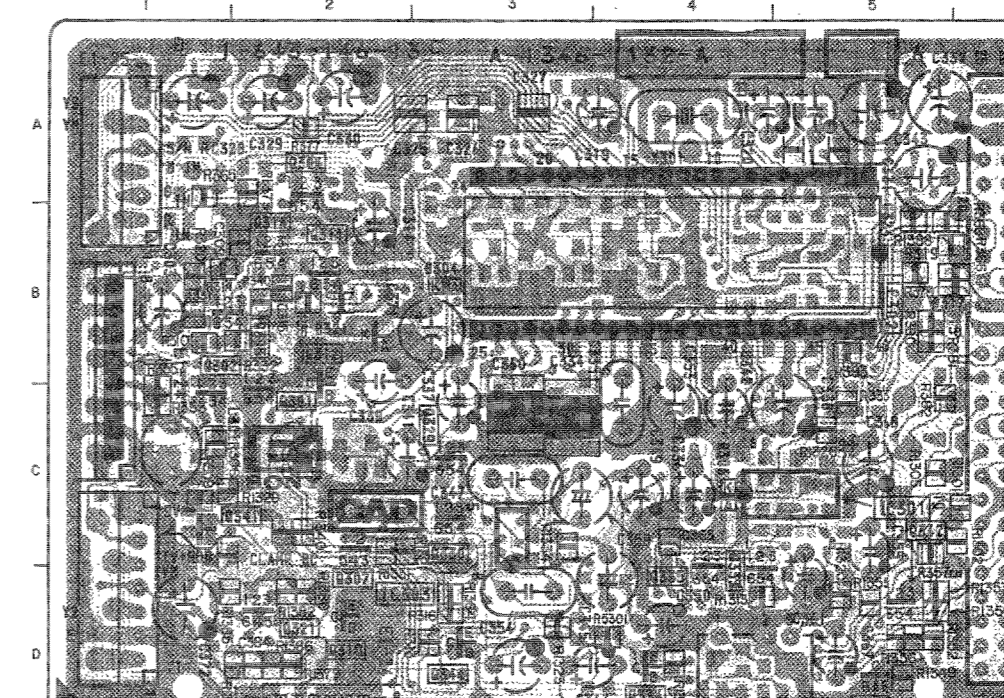
ALC OUT

Pattern from the side which enables seeing.
Pattern of the rear side.

IC	
IC301	C-5
IC302	B-4, G-4
IC303	C-3

TRANSISTOR	
Q301	C-2
Q302	C-1
Q303	G-1
Q304	A-2
Q305	B-1
Q306	H-3
Q307	C-2
Q309	F-2
Q310	D-2
Q311	B-2
Q312	B-2
Q314	B-2
Q315	G-5
Q316	G-5
Q317	E-3
Q321	D-2
Q322	G-4
Q323	F-3
Q324	G-3
Q325	G-3
Q326	D-5
Q327	G-3
Q328	F-6
Q329	C-3
Q330	C-3
Q334	D-4
Q335	D-4
Q340	E-4
Q342	D-5
Q344	D-5

DIODE	
D301	F-1
D302	G-1
D303	G-1
D304	B-3
D305	F-3
D306	C-4
D307	G-4
D310	G-4
D312	G-4
D313	G-3
D314	G-3
D315	G-2
D316	G-3
D317	B-5
D318	F-5
D319	B-5
D320	G-5
D321	B-2

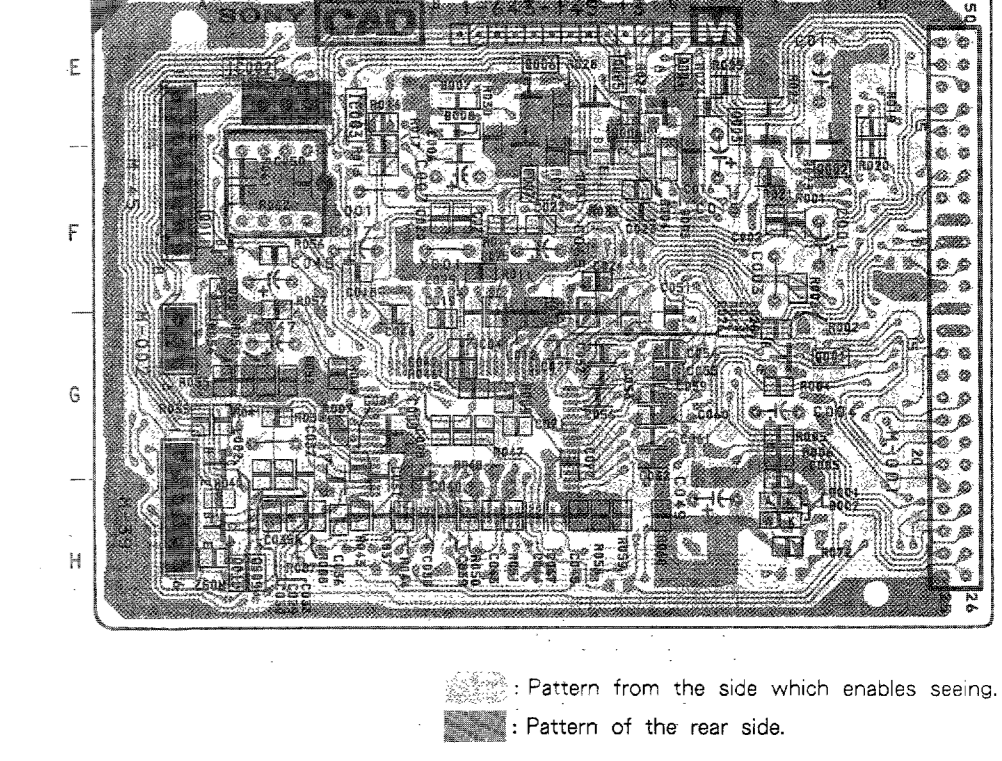
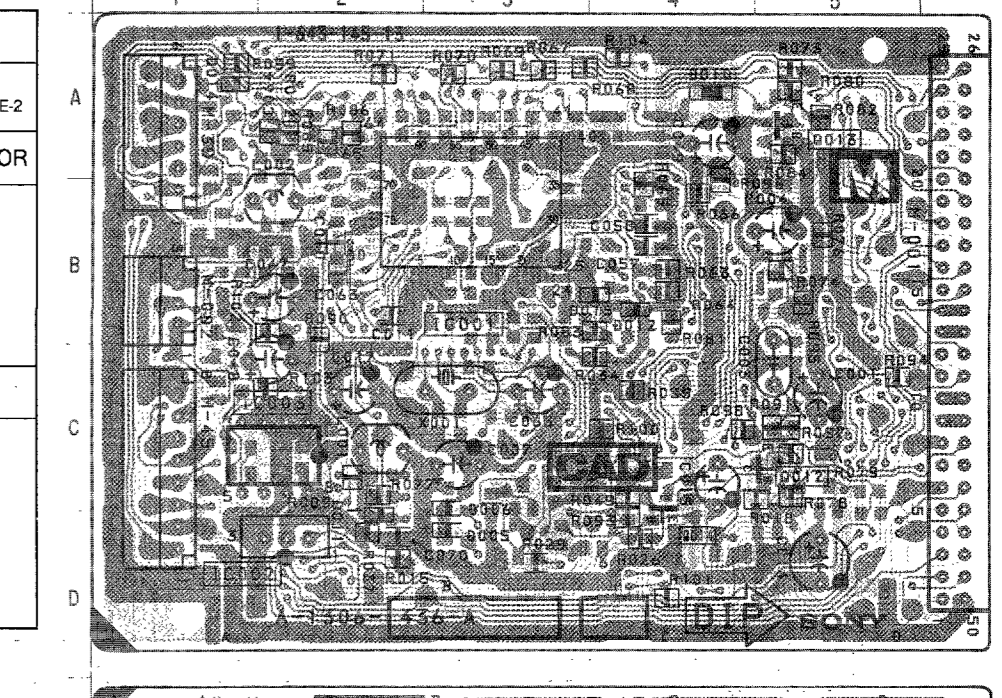


- M BOARD -

IC	
IC001	C-1
IC002	D-2, E-2

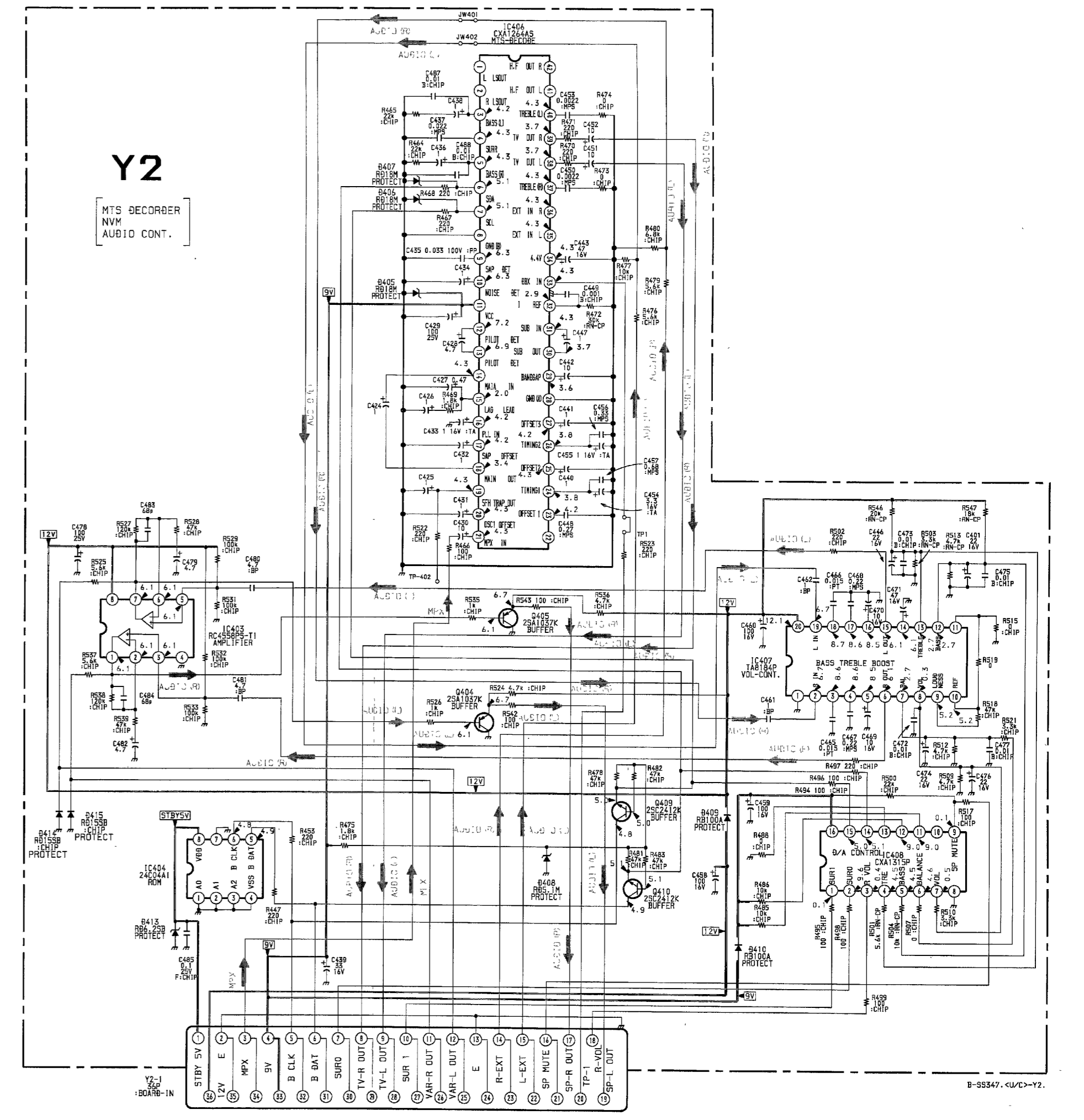
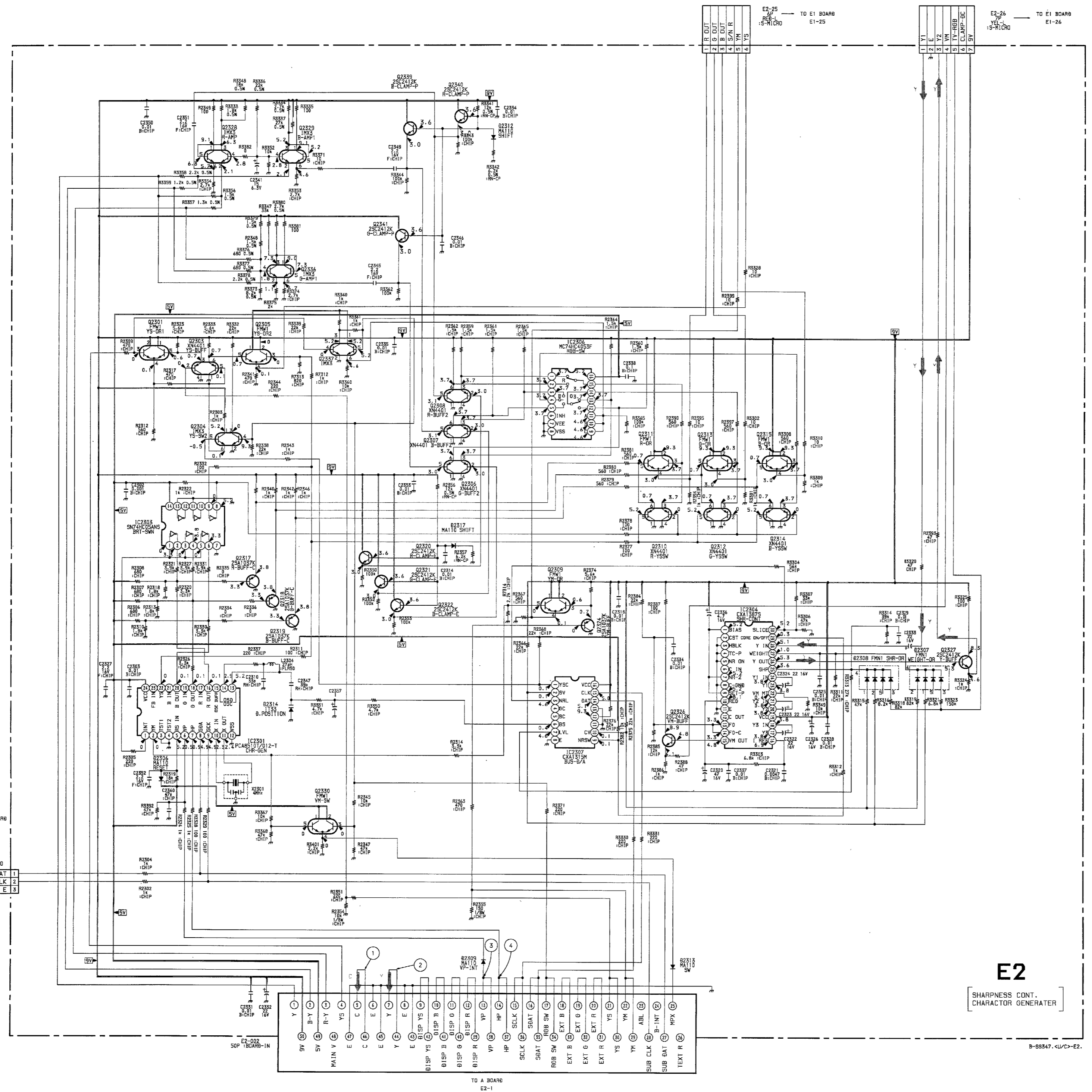
TRANSISTOR	
Q001	G-5
Q009	G-1
Q010	H-1
Q011	F-1
Q012	C-5
Q013	A-5
Q014	C-4

DIODE	
D001	H-5
D002	H-5
D009	F-1
D010	A-4
D011	D-2
D012	B-4
D014	A-1
D015	B-4

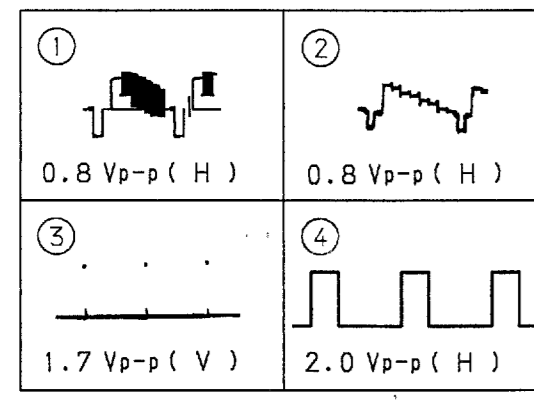


Pattern from the side which enables seeing.
Pattern of the rear side.

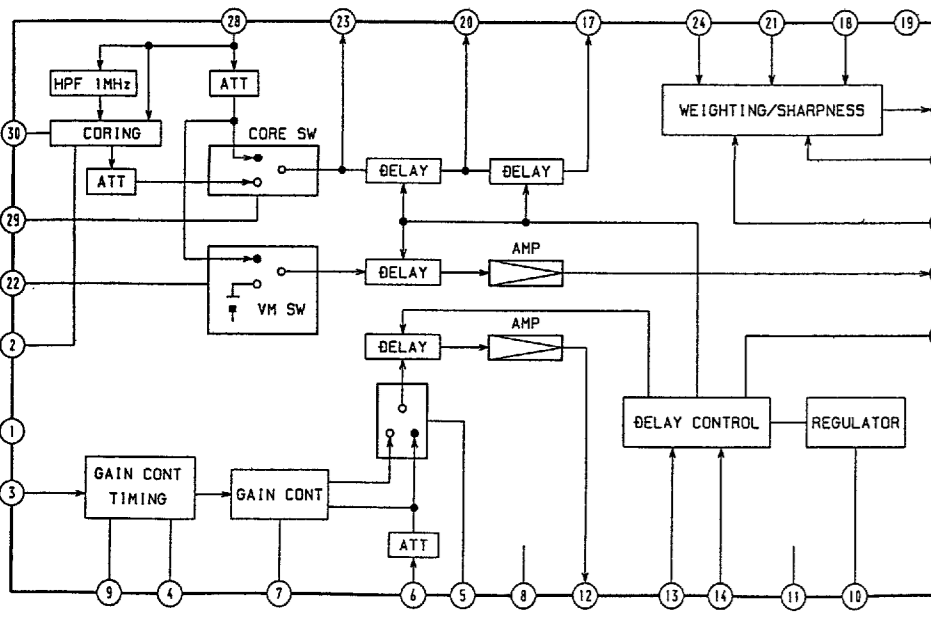
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P



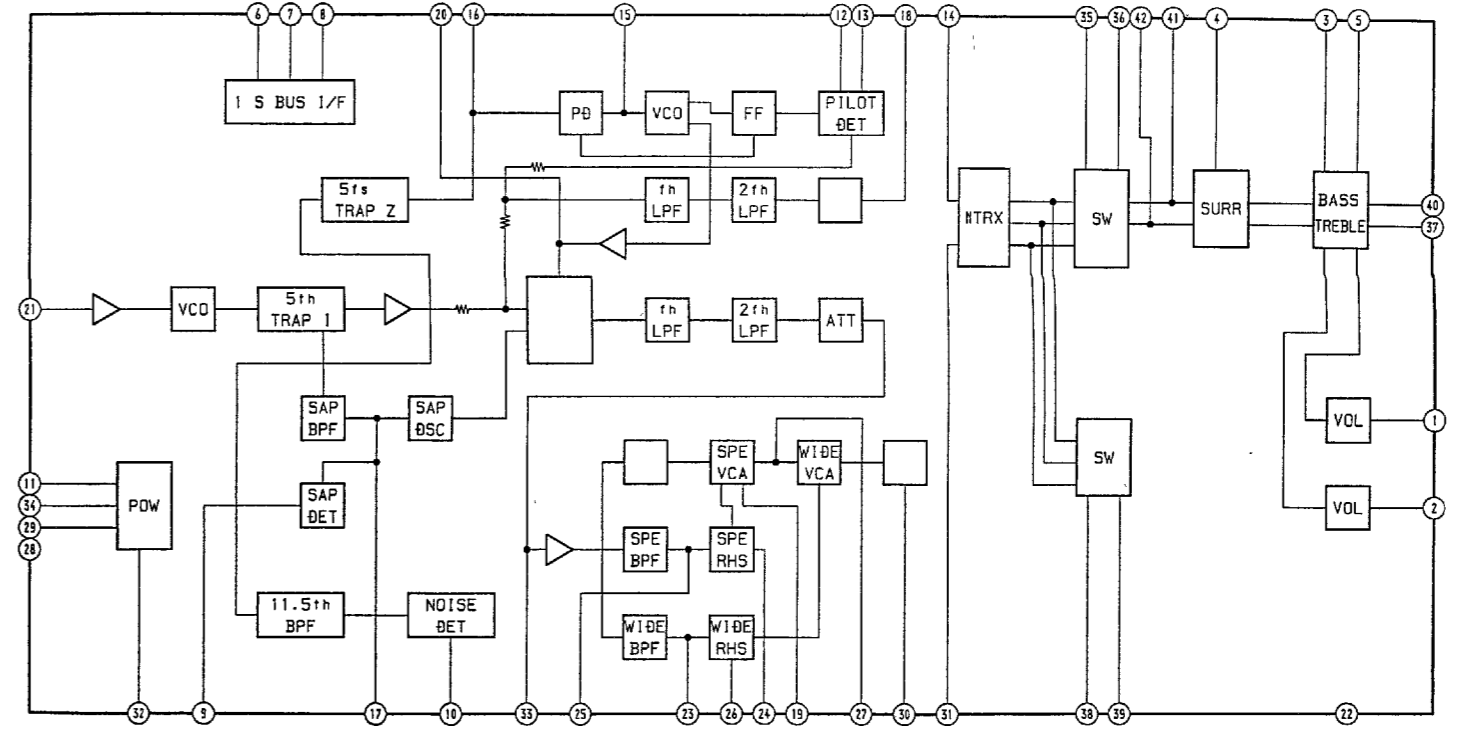
• E2 BOARD WAVEFORMS



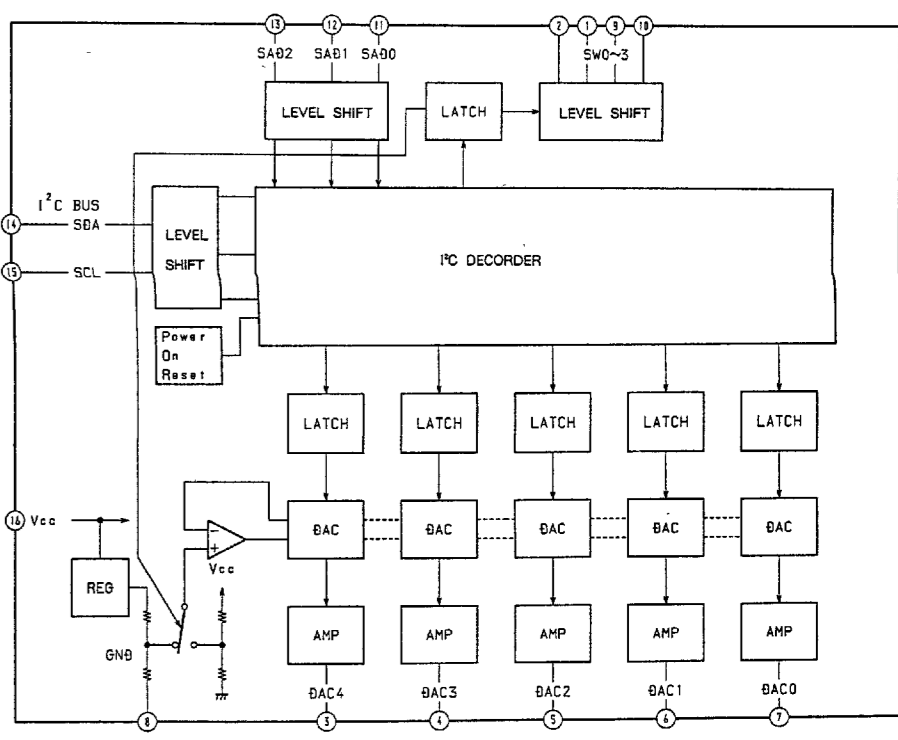
• E2 BOARD IC2304 CXA1387S



• Y2 BOARD IC406 CXA1264AS



• Y2 BOARD IC408 CXA1315P



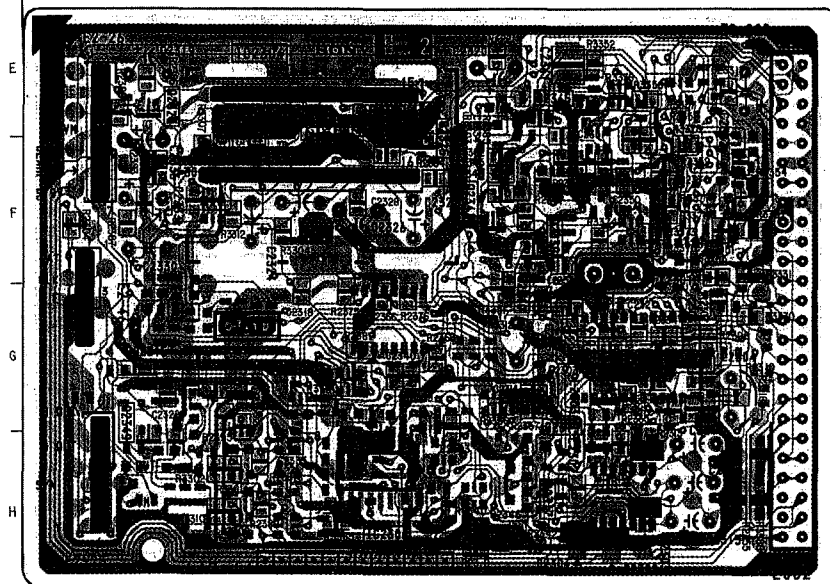
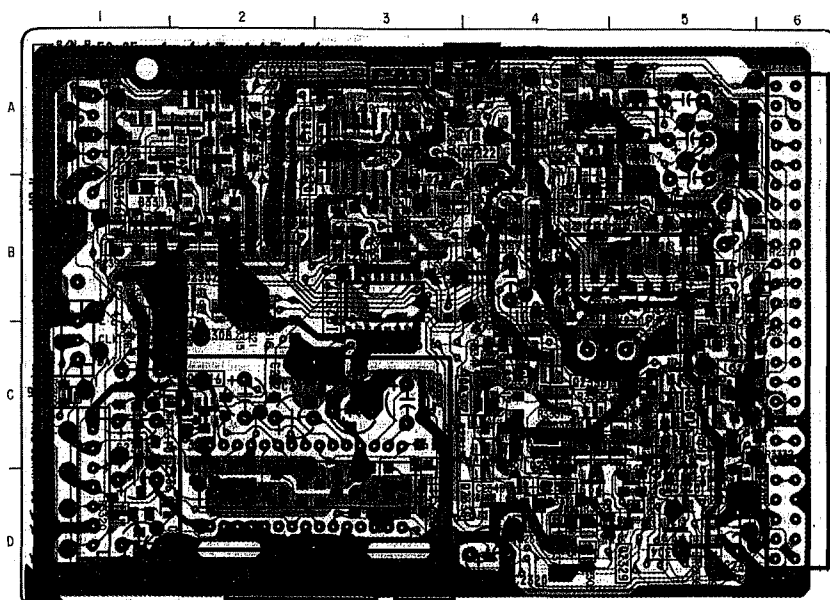
E2

[SHARPNESS CONT,
CHARACTOR GENERATER]

Y2

[MTS DECORDER,
NVM,
AUDIO CONT]

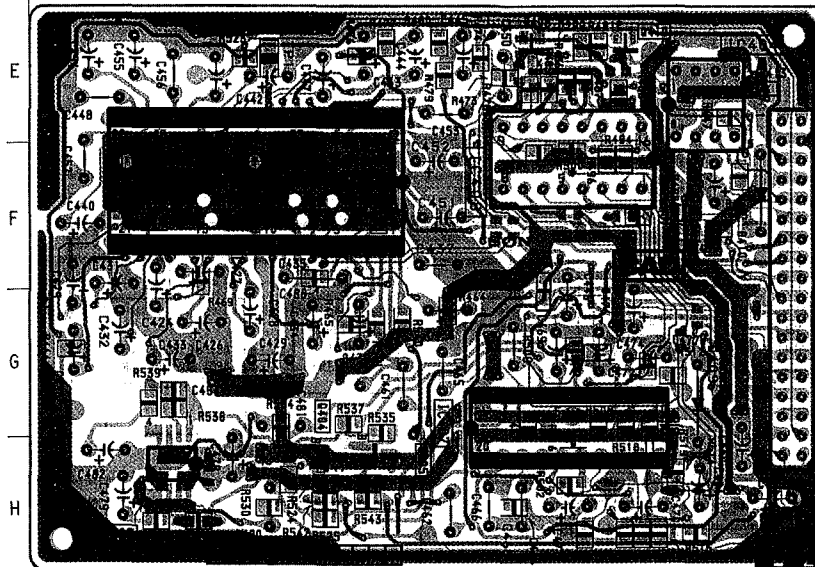
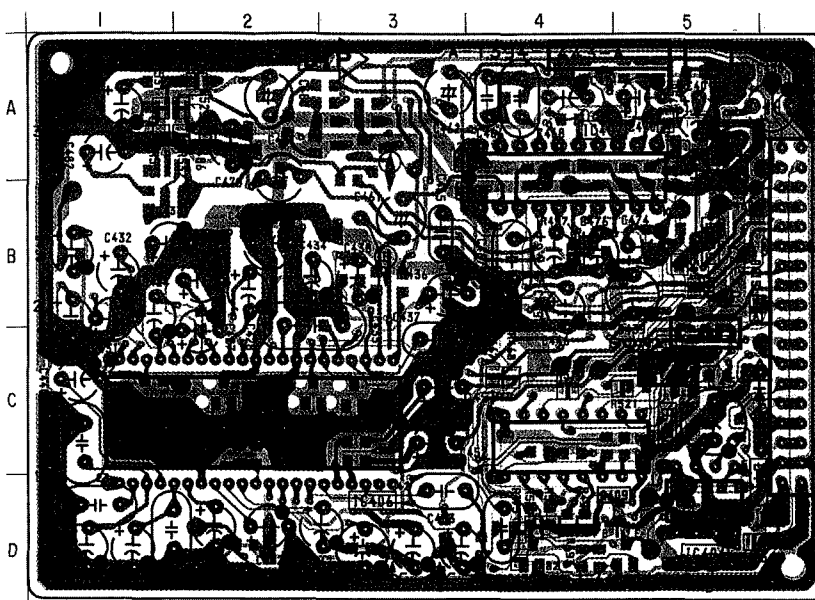
— E2 BOARD —



▨ : Pattern from the side which enables seeing.
■ : Pattern of the rear side.

IC	
IC2031	B-4
IC2303	A-5
IC2304	D-3, E-2
IC2306	H-3
IC2307	B-3
TRANSISTOR	
Q2301	C-5
Q2303	C-5
Q2304	D-5
Q2305	C-5
Q2306	A-3
Q2307	B-4
Q2308	A-3
Q2309	B-2
Q2310	A-2
Q2311	A-2
Q2312	A-2
Q2313	A-2
Q2314	A-2
Q2315	A-2
Q2317	H-4
Q2318	G-4
Q2319	G-5
Q2320	A-4
Q2321	A-4
Q2322	A-4
Q2324	B-3
Q2326	E-1
Q2327	E-2
Q2328	D-4
Q2329	D-4
Q2330	C-4
Q2336	C-5
Q2337	B-3
Q2339	F-4
Q2340	F-4
Q2341	F-4
DIODE	
D2306	C-5
D2307	B-2
D2308	B-2
D2309	B-5
D2312	C-4
D2313	C-4
D2314	B-5
D2317	A-4

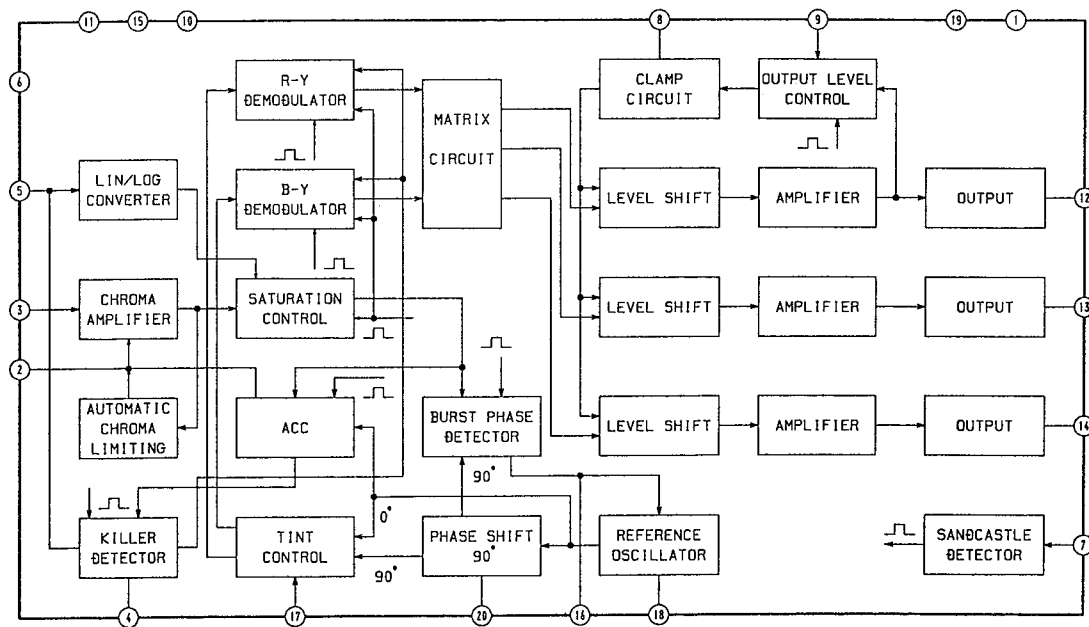
— Y2 BOARD —



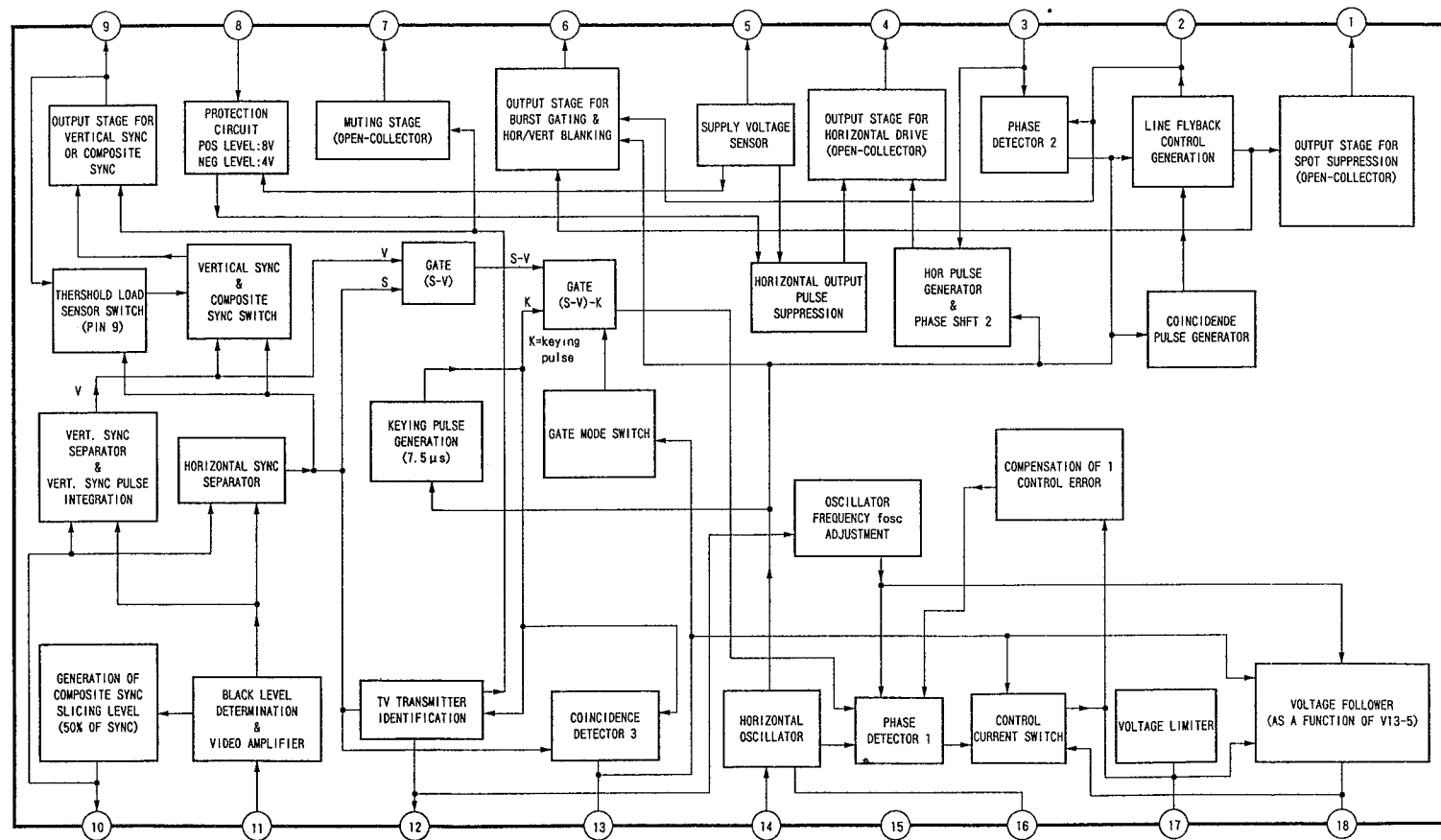
▨ : Pattern from the side which enables seeing.
■ : Pattern of the rear side.

IC	
IC403	H-1
IC404	D-5, E-5
IC406	C-2, F-2
IC407	A-4, G-4
IC408	C-4, F-4
TRANSISTOR	
Q404	H-3
Q405	H-3
Q409	D-5
Q410	E-5
DIODE	
D405	F-2
D406	F-2
D407	F-3
D408	E-4
D409	A-5
D410	C-5, F-5
D413	E-6
D414	F-4
D415	B-5

• P1 BOARD IC3001 TDA3769



• P1 BOARD IC3003 TDA2595



P1

[PICTURE IN PICTURE]

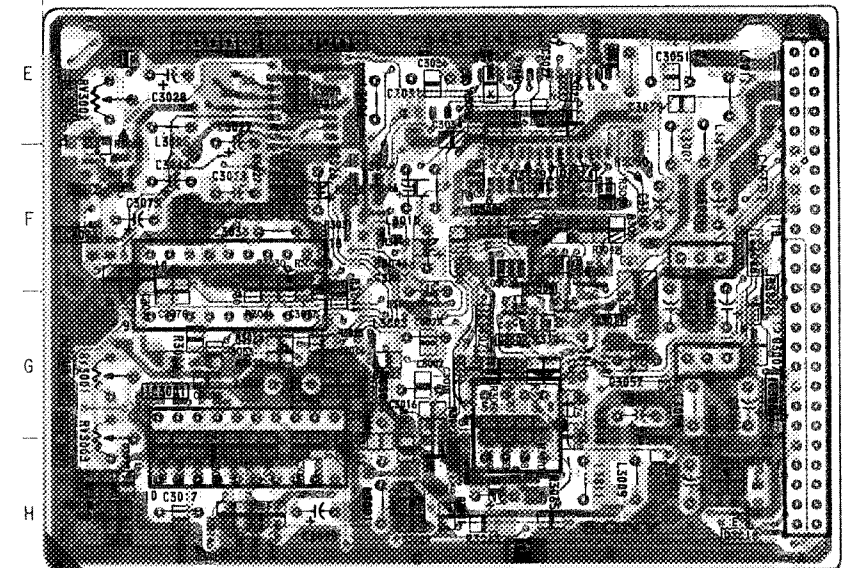
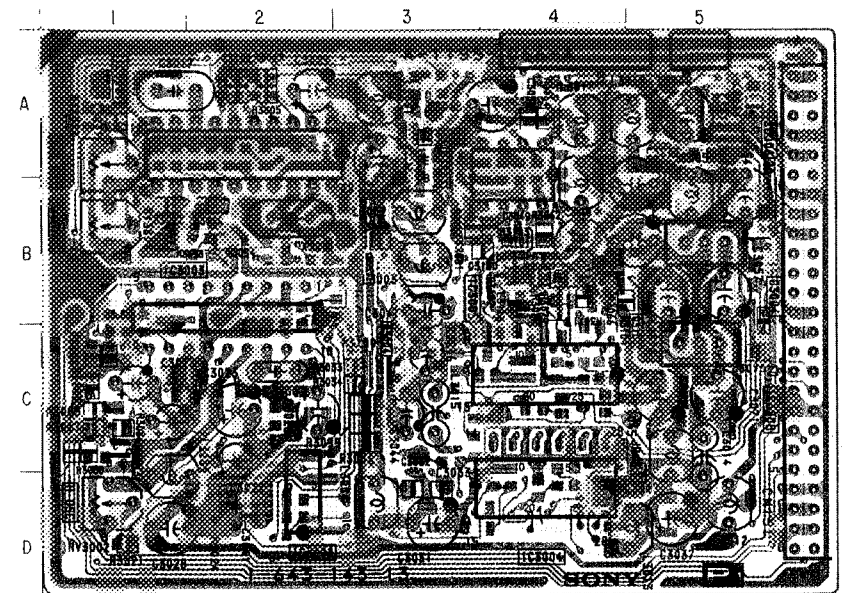
— P1 BOARD —

IC	
IC3001	A-2, G-2
IC3002	D-2
IC3003	B-2, F-2
IC3004	D-4
IC3005	C-4
IC3006	B-5, G-5
IC3007	A-4, G-4
IC3008	C-5, F-5

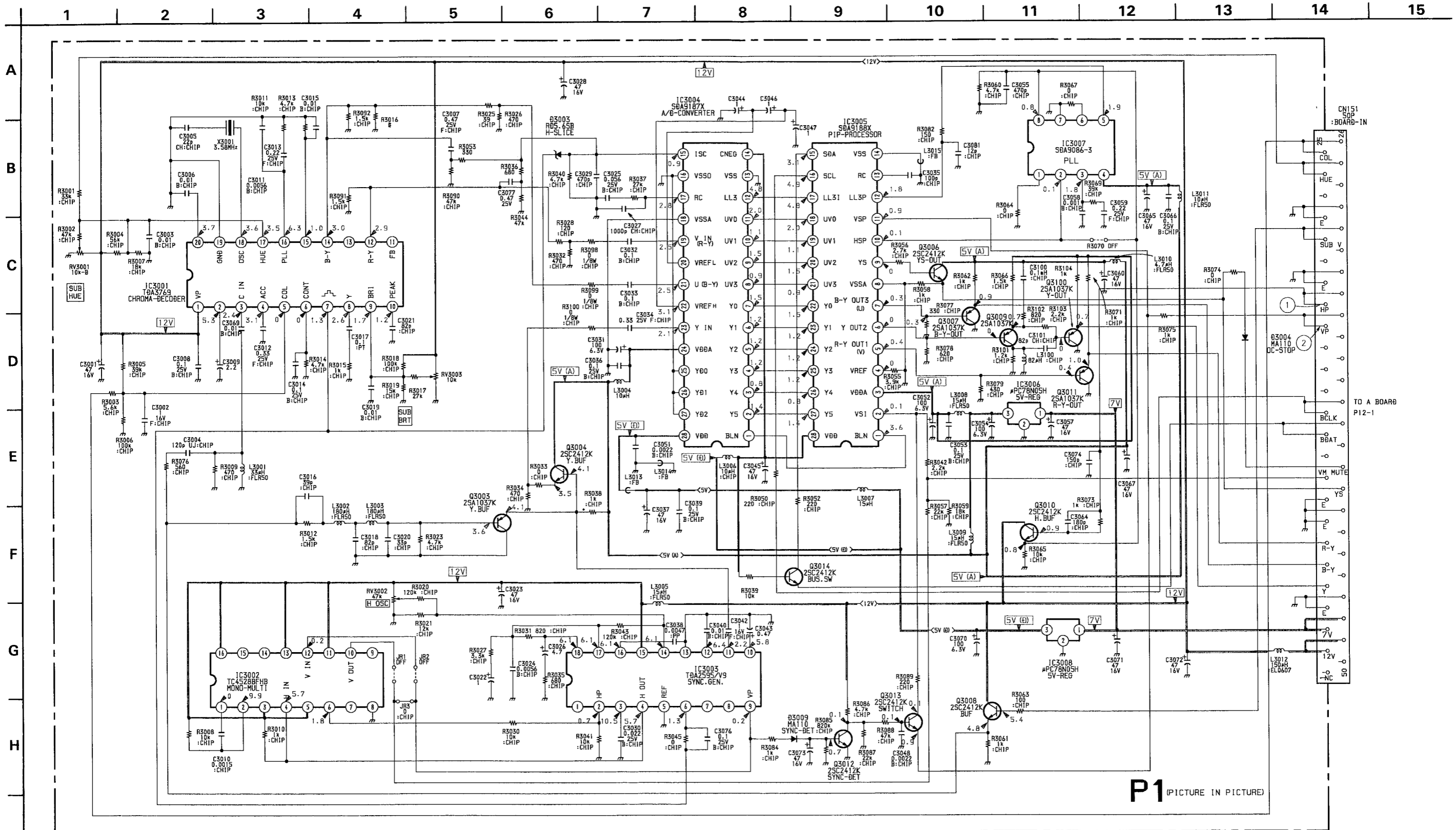
TRANSISTOR	
Q3003	A-3
Q3004	C-3
Q3006	F-4
Q3007	G-4
Q3008	H-3
Q3009	G-4
Q3010	H-5
Q3011	F-4
Q3012	F-1
Q3013	C-1
Q3014	F-4
Q3100	B-4

DIODE	
D3003	E-4
D3004	B-5
D3009	C-1

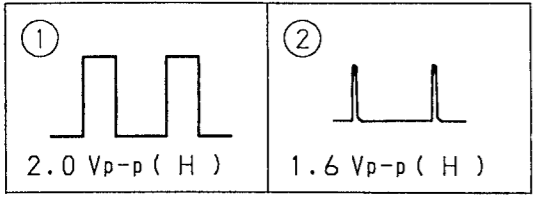
VARIABLE RESISTOR	
RV3001	B-1, G-1
RV3002	D-1, E-1
RV3003	A-1, G-1



Pattern from the side which enables seeing.
: Pattern of the rear side.

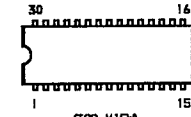


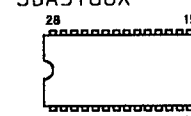
• P1 BOARD WAVEFORMS

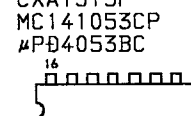


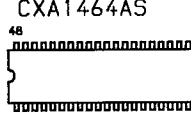
B-55347. <U/C>-P1.


6-7.SEMICONDUCTORS

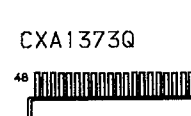
CXA1387S

(TOP VIEW)

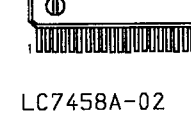
CXA1268P
SDA9187X
SDA9188X

(TOP VIEW)

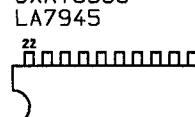
CXA1315M
CXA1315P
MC141053CP
#PD4053BC

(TOP VIEW)

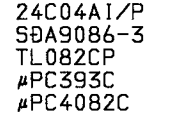
CXA1464AS

(TOP VIEW)

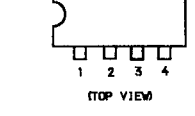
CXA1545S

(TOP VIEW)


CXA1373Q

(TOP VIEW)

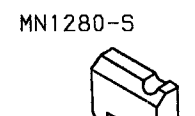
LC7458A-02

(TOP VIEW)

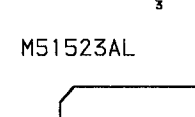
CXA1656S
LA7945

(TOP VIEW)


24C04AI/P
SDA9086-3
TL082CP
#PC393C
#PC4082C
#PC4557C
#PC4558C

(TOP VIEW)

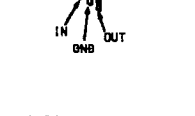
LM324N
MB3614
#PC1394C

(TOP VIEW)

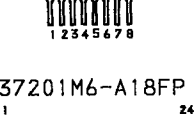
MC74HC4053F
MC14528BF
#PD4052BG
TC4528BFHB

(TOP VIEW)


MN1280-S

(TOP VIEW)

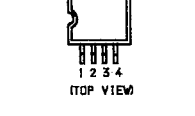
M51523AL

(TOP VIEW)


NJM78M05FA
TA78125
#PC7805H
#PC7812H

(TOP VIEW)

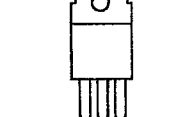
M5220L

(TOP VIEW)

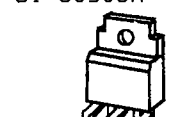
M37201M6-A18FP
SONY
CXA8007Q
XXXXX
JAPAN

(TOP VIEW)

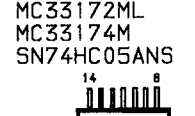
RC4558PS
#PC4570G2

(TOP VIEW)

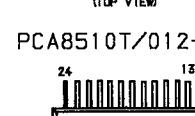
CXA1264AS
PA0036

(TOP VIEW)

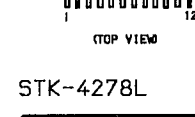
NJM79M05FA
NJM7915FA

(TOP VIEW)

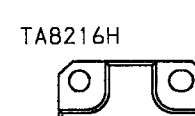
TMC73C247-10
MARKING SIDE VIEW

(MARKING SIDE VIEW)

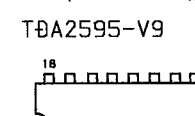
SI-3090CA

(TOP VIEW)

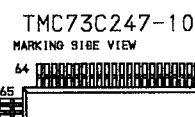
MC33172ML
MC33174M
SN74HC05ANS

(TOP VIEW)

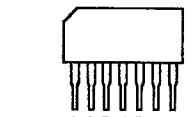
PCA8510T/012-T

(TOP VIEW)

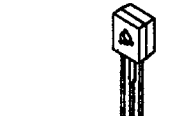
STK-4278L

(TOP VIEW)

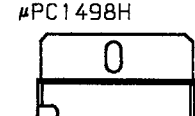
TA8216H

(TOP VIEW)

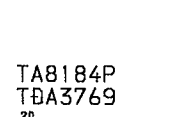
TDA2595-V9

(TOP VIEW)

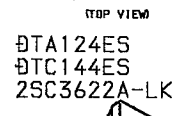
TMC73C247-10
MARKING SIDE VIEW

(MARKING SIDE VIEW)

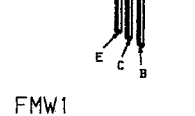
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(TOP VIEW)

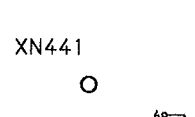
#PC78N05H

(TOP VIEW)

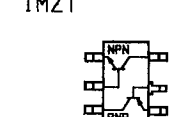
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(TOP VIEW)

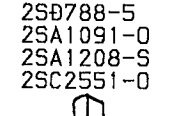
TA8184P
TDA3769

(TOP VIEW)

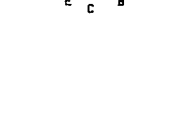
DTA124ES
DTC144ES
2SC3622A-LK

(TOP VIEW)

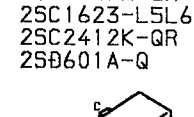
FMW1

(TOP VIEW)

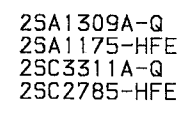
XN441

(TOP VIEW)

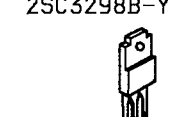
IMX3
IMZ1

(TOP VIEW)

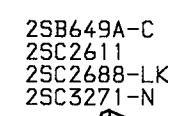
2SA1013-0
2SD788-5
2SA1091-0
2SA1208-S
2SC2551-0

(TOP VIEW)

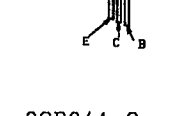
2SA1037K-QR
2SC1623-L5L6
2SC2412K-QR
2SD601A-Q

(TOP VIEW)

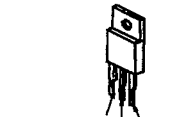
2SA1309A-Q
2SA1175-HFE
2SC3311A-Q
2SC2785-HFE

(TOP VIEW)

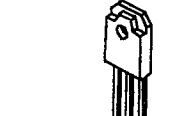
2SA1301-0

(TOP VIEW)


2SA1306A-Y
2SC3298B-Y

(TOP VIEW)

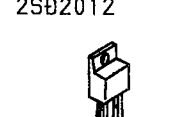
2SB649A-C
2SC2611
2SC2688-LK
2SC3271-N

(TOP VIEW)


2SB861-C
2SB1015-Y
2SC3675
2SD1406-YGR

(TOP VIEW)

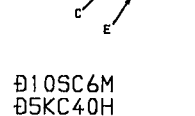
2SC2555-2

(TOP VIEW)


2SC3733

(TOP VIEW)

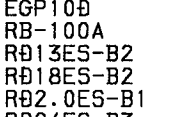
2SC4256CB

(TOP VIEW)

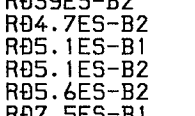
2SC4582-NP
2SD2012

(TOP VIEW)

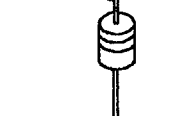
2SC4891-CA
2SD1887-CA

(TOP VIEW)

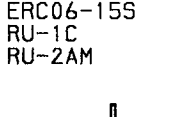
2SC500R

(TOP VIEW)

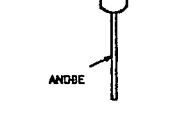
2SC4256CB

(TOP VIEW)

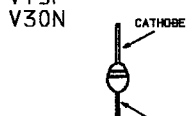
Ø1N20R
EGP10Ø
RB-100A
RØ13ES-B2
RØ18ES-B2
RØ2.0ES-B1
RØ24ES-B3
RØ3.3ES-B2
RØ3.9ES-B1
RØ33ES-B2
RØ39ES-B2
RØ4.7ES-B2
RØ5.1ES-B1
RØ5.1ES-B2
RØ5.6ES-B2
RØ7.5ES-B1
1SS119

(TOP VIEW)

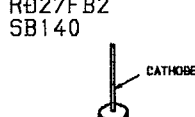
Ø10SC6M
Ø5KC40H

(TOP VIEW)


Ø10SC6MR

(TOP VIEW)


ØØ50R

(TOP VIEW)

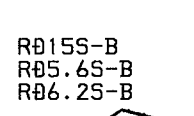
ERC06-15S
RU-1C
RU-2AM

(TOP VIEW)

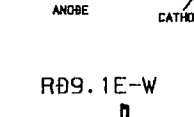
ERC38-06
V06C
V09G
V19F
V30N

(TOP VIEW)

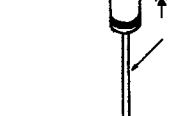
GP08Ø
ERØ28-Ø8S
RØ27FB2
SB140

(TOP VIEW)

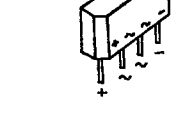
MA110
MA3130

(TOP VIEW)

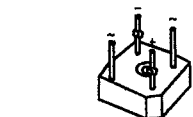
RØ15M-B1
RØ18M-B1
RØ5.1M-B3

(TOP VIEW)

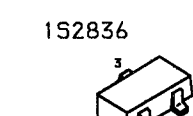
RØ15S-B
RØ5.6S-B
RØ6.2S-B

(TOP VIEW)

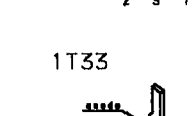
RØ9.1E-W

(TOP VIEW)


S1VB40

(TOP VIEW)

S3V105B

(TOP VIEW)

S5VB60

(TOP VIEW)

1S2836

(TOP VIEW)

1T33

(TOP VIEW)

TLR124

(TOP VIEW)

SECTION 7 EXPLODED VIEWS

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

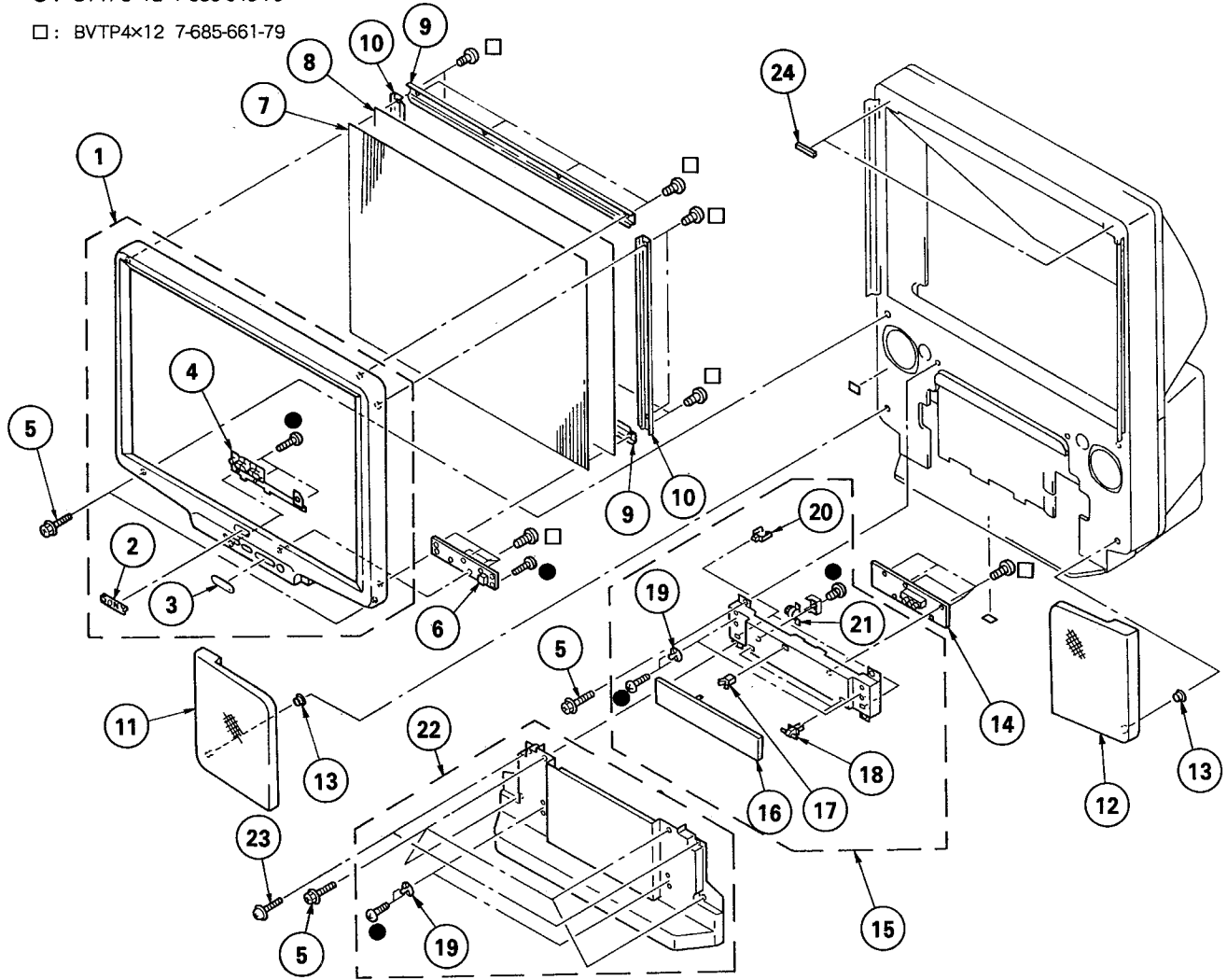
The components identified by shading and mark **▲** are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque **▲** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

7-1. SCREEN FRAME AND CONTROL PANEL

●: BVTP3×12 7-685-648-79

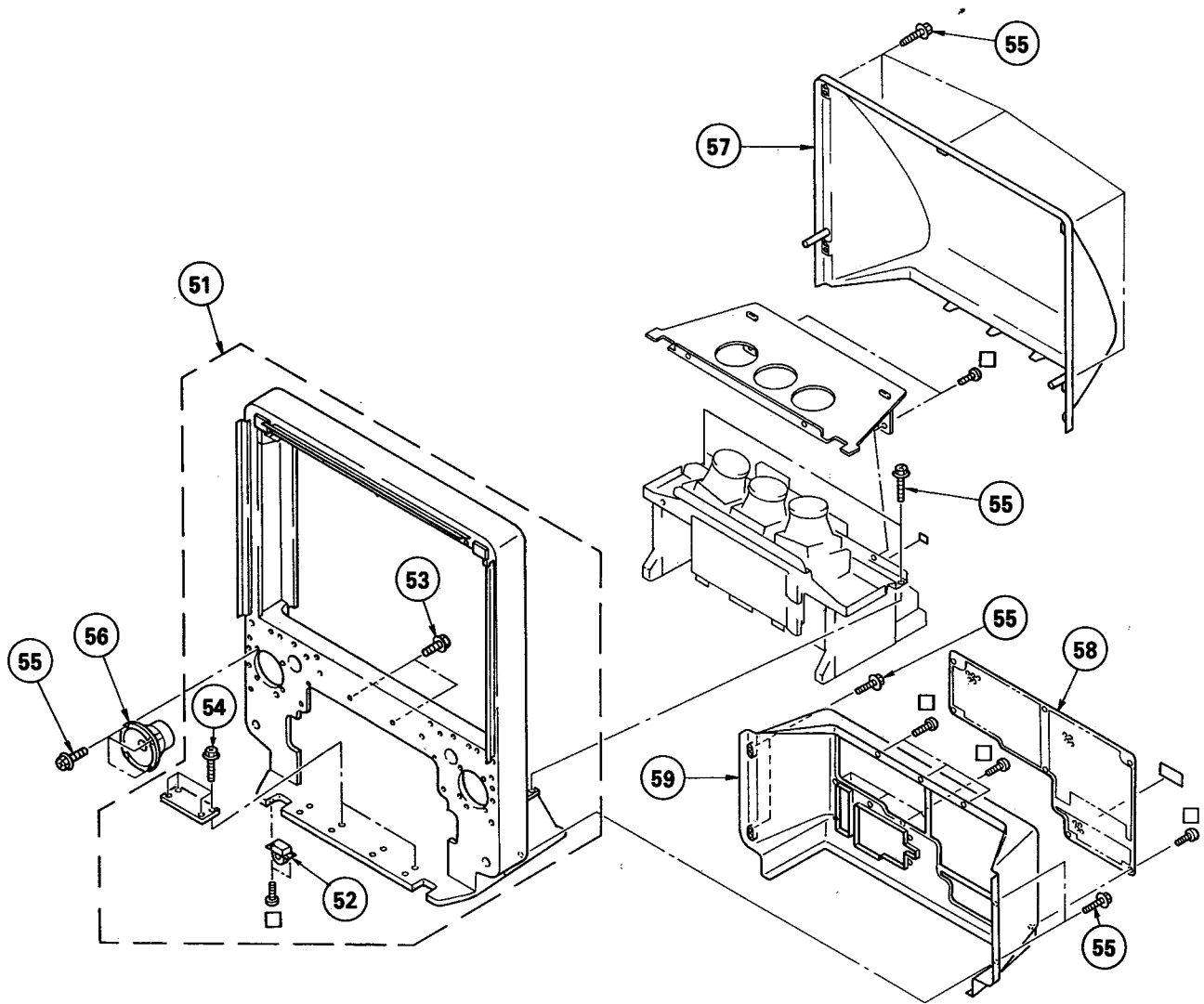
□: BVTP4×12 7-685-661-79



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
1	X-4031-192-1	FRAME ASSY, SCREEN	2~4	13	4-838-438-00	LATCH	
2	3-704-179-01	EMBLEM (NO.9), SONY		14	*1-643-592-11	H2 BOARD	
3	4-036-087-21	COVER, INDICATOR		15	X-4030-354-4	PANEL ASSY, CONTROL	16~21
4	4-033-779-11	BUTTON, CONTROL		16	4-033-794-11	LID, FRONT	
5	4-378-522-31	SCREW, TAPPING, HEXAGON HEAD		17	4-374-714-01	CATCH, PUSH	
6	*1-643-591-11	H1 BOARD		18	3-703-035-11	SHAFT, LID	
7	4-034-053-01	PLATE (L), DIFFUSION		19	4-843-806-00	STRIKE	
8	4-036-520-01	PLATE (F), DIFFUSION		20	*4-314-320-00	HOLDER, WIRE	
9	4-036-091-01	HOLDER (L), SCREEN		21	3-721-204-01	DAMPER	
10	4-036-092-01	HOLDER (S), SCREEN		22	X-4030-347-1	COVER ASSY, FRONT	19
11	X-4030-346-1	GRILLE (L) ASSY, SPEAKER		23	4-304-851-11	SCREW (4X25), (+) PWH TAPPING	
12	X-4030-348-1	GRILLE (R) ASSY, SPEAKER		24	4-039-110-01	SPACER (CA)	

7-2.CABINET AND BACK COVER

□: BVTP4×12 7-685-661-79



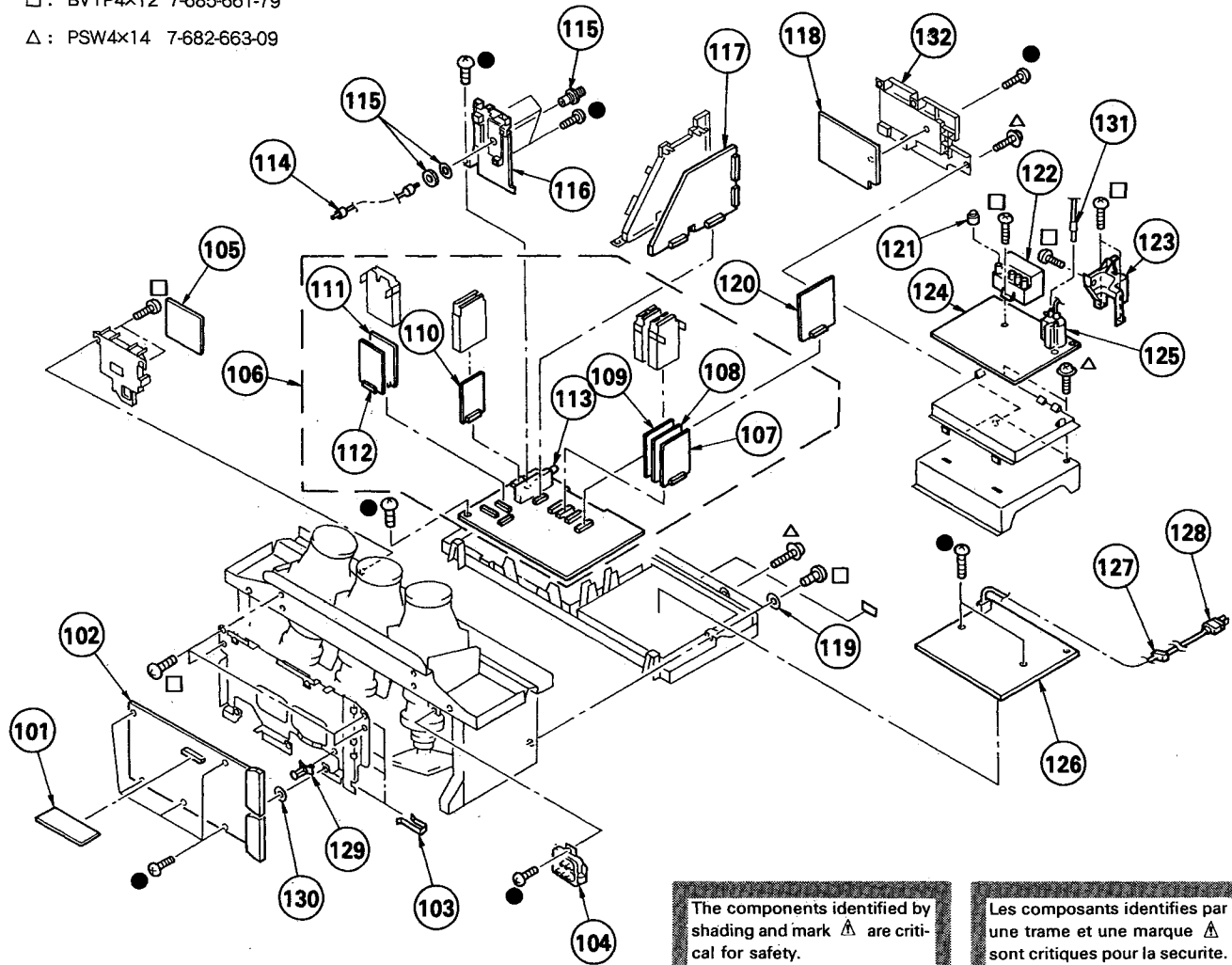
REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
51	*X-4031-104-1	CABINET ASSY					
52	4-040-755-01	CASTER (DIA. 30)		52~54	56	1-544-768-11	SPEAKER (13CM) (COAXIAL)
53	4-378-522-01	SCREW, TAPPING, HEXAGON HEAD			57	4-036-136-01	COVER, MIRROR
54	4-378-522-21	SCREW, TAPPING, HEXAGON HEAD			58	4-036-527-01	PLATE, REAR
55	4-378-522-31	SCREW, TAPPING, HEXAGON HEAD			59	X-4030-402-1	COVER ASSY, BACK

7-3.CHASSIS

● : BVTP3×12 7-685-648-79

□ : BVTP4×12 7-685-661-79

△ : PSW4×14 7-682-663-09



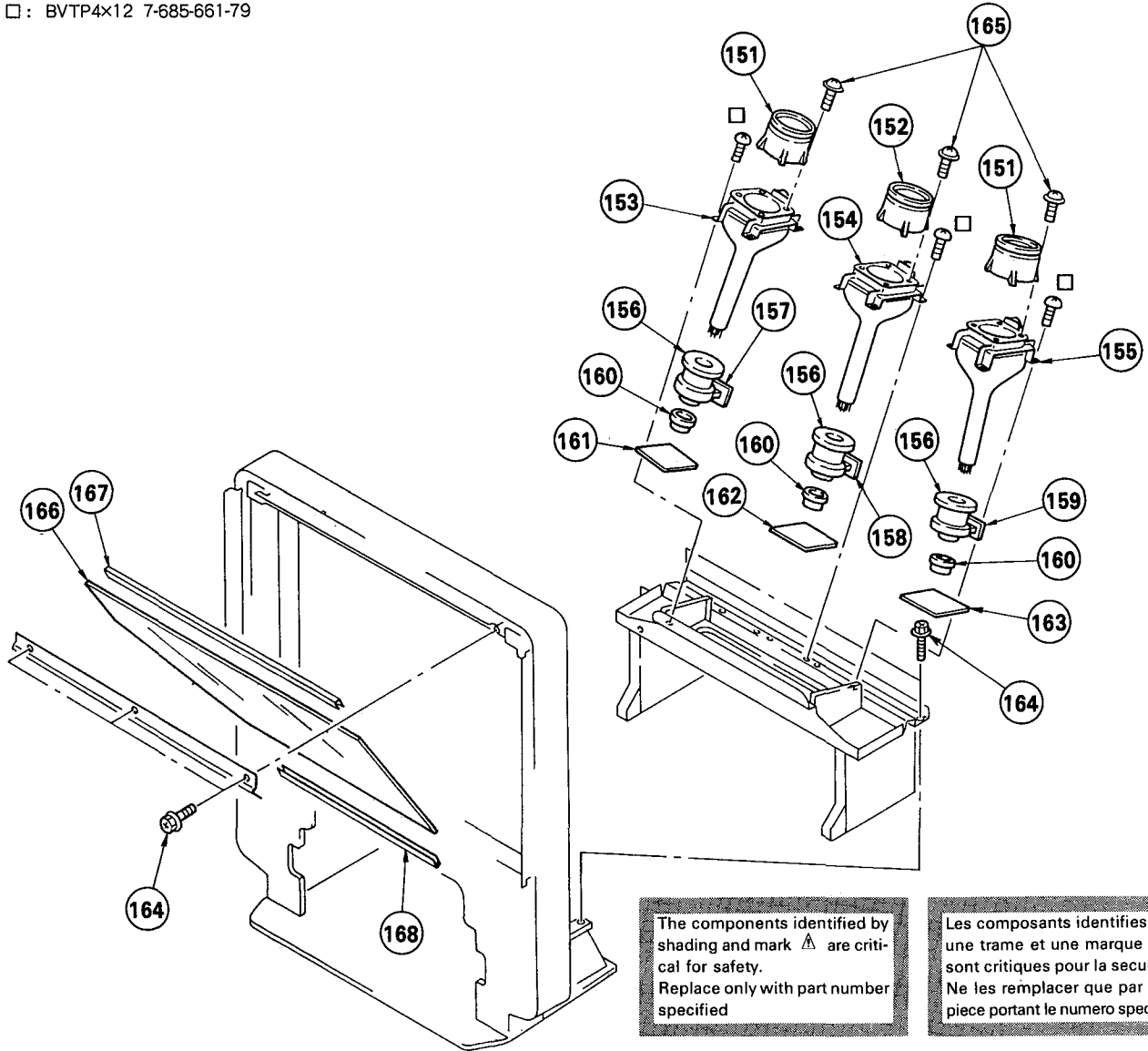
The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
101	*1-644-278-11	DS BOARD		117	*A-1394-422-A	U BOARD, COMPLETE	
102	*A-1346-117-A	D BOARD, COMPLETE		118	*A-1394-432-A	UT BOARD, COMPLETE	
103	*4-393-401-11	SPRING, TRANSISTOR		119	4-039-112-01	WASHER, WAVE	
104	Δ 1-241-744-11	RESISTOR ASSY (HIGH-VOLTAGE)		120	*A-1342-214-A	V BOARD, COMPLETE	
105	*A-1394-421-A	S BOARD, COMPLETE		121	4-373-137-01	CAP (Z), RUBBER	
106	*A-1297-079-A	A BOARD, COMPLETE		122	Δ 1-453-108-11	DC BLOCK, HIGH-VOLTAGE	
107	*A-1346-138-A	E1 BOARD, COMPLETE	107~112	123	4-034-482-01	COVER, FBT	
108	*A-1346-137-A	E2 BOARD, COMPLETE		124	*A-1390-351-A	N BOARD, COMPLETE	
109	*A-1306-436-A	M BOARD, COMPLETE		125	Δ 1-453-121-11	TRANSFORMER ASSY, FLYBACK (NX-263084)	
110	*A-1195-066-A	P1 BOARD, COMPLETE		126	*A-1316-149-A	G BOARD, COMPLETE	
111	*A-1394-444-A	X2 BOARD, COMPLETE		127	Δ 4-388-328-12	GROMMET, AC CORD	
112	*A-1394-443-A	Y2 BOARD, COMPLETE		128	Δ 1-696-002-12	CORD, POWER (WITH NOISE FILTER)	
113	Δ 1-693-102-21	TUNER (BTF-XA401)		129	*3-670-570-21	SPACER, SUPPORT	
114	*1-555-110-00	CABLE, PIN		130	4-866-147-00	WASHER	
115	1-561-306-00	JACK, PIN (F)		131	1-574-590-31	LEAD ASSY, HIGH-VOLTAGE	
116	4-036-137-03	PANEL, SUB CONNECTOR		132	4-036-138-04	PANEL (A), TERMINAL	

7-4.PICTURE TUBE

□ : BVTP4x12 7-685-661-79



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
151	4-034-057-01	LENS (LINNIT)		160	▲ 1-452-443-13	Yoke Assy, Picture Tube (NA367)	
152	4-034-057-11	LENS (LINNIT)		161	*A-1331-259-A	CR BOARD, COMPLETE	
153	▲ 8-736-633-05	PICTURE TUBE (SD-249 (R))		162	*A-1331-260-A	CG BOARD, COMPLETE	
154	▲ 8-736-631-05	PICTURE TUBE (SD-249 (G))		163	*A-1331-261-A	CB BOARD, COMPLETE	
155	▲ 8-736-632-05	PICTURE TUBE (SD-249 (B))		164	4-378-522-31	SCREW, TAPPING, HEXAGON HEAD	
156	▲ 1-451-396-21	DEFLECTION YOKE (Y936PA)		165	3-701-810-91	SCREW, TERMINAL	
157	*A-1390-340-A	ZR BOARD, COMPLETE		166	4-036-134-01	MIRROR (41), REFLECTION	
158	*A-1390-346-A	ZG BOARD, COMPLETE		167	4-033-775-31	PROTECTOR, MIRROR	
159	*A-1390-347-A	ZB BOARD, COMPLETE		168	4-033-775-41	PROTECTOR, MIRROR	

SECTION 8 ELECTRICAL PARTS LIST

KP-41EXR96
RM-Y112A

A

NOTE:

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

Les composants identifiés par une trame et une marque **△** sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

- 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.
- RESISTORS
- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

- CAPACITORS COILS
- MF : μ F, PF : μ μ F • MMH : mH, UH : μ H
- The components identified by **☒** in this manual 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.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
	*A-1297-079-A	A BOARD, COMPLETE *****		C226	1-124-120-11	ELECT 220MF 20%	16V
	4-382-854-11	SCREW (M3X10), P, SW (+)		C227	1-124-621-11	ELECT 3300MF 20%	6.3V
		<CONNECTOR>		C299	1-126-101-11	ELECT 100MF 20%	16V
A1	*1-564-514-11	PLUG, CONNECTOR 11P		C502	1-126-182-11	ELECT 0.47MF 20%	50V
A2	*1-564-512-11	PLUG, CONNECTOR 9P		C503	1-130-487-00	MYLAR 0.022MF 5%	50V
A3	*1-564-507-11	PLUG, CONNECTOR 4P		C504	1-136-153-00	FILM 0.01MF 5%	50V
A4	*1-564-508-11	PLUG, CONNECTOR 5P		C507	1-106-383-00	MYLAR 0.047MF	200V
A5	*1-564-511-11	PLUG, CONNECTOR 8P		C508	1-102-973-00	CERAMIC 100PF 5%	50V
A10	*1-564-511-41	PLUG, CONNECTOR 8P		C509	1-102-030-00	CERAMIC 330PF 10%	500V
A11	*1-564-511-31	PLUG, CONNECTOR 8P		C510	△ 1-136-565-11	FILM 0.015MF 3%	1.4KV
A12	1-573-297-11	CONNECTOR, BOARD TO BOARD 18P		C512	△ 1-136-598-11	FILM 3MF 5%	200V
A13	1-573-297-11	CONNECTOR, BOARD TO BOARD 18P		C513	1-136-153-00	FILM 0.01MF 5%	50V
A14	*1-564-513-31	PLUG, CONNECTOR 10P		C514	1-124-477-11	ELECT 47MF 20%	16V
A15	*1-564-508-11	PLUG, CONNECTOR 5P		C522	1-123-024-21	ELECT 33MF	160V
A16	*1-564-508-11	PLUG, CONNECTOR 5P		C523	1-106-383-00	MYLAR 0.047MF	200V
A17	*1-564-508-11	PLUG, CONNECTOR 5P		C528	1-124-662-11	ELECT 220MF 20%	50V
A18	*1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P		C534	1-124-011-00	ELECT 220MF 20%	16V
A19	*1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P		C535	1-124-011-00	ELECT 220MF 20%	16V
A20	*1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P		C536	1-124-662-11	ELECT 220MF 20%	50V
A21	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P		C537	1-124-662-11	ELECT 220MF 20%	50V
A22	1-573-297-11	CONNECTOR, BOARD TO BOARD 18P		C539	1-124-907-11	ELECT 10MF 20%	50V
A25	*1-564-506-11	PLUG, CONNECTOR 3P		C542	1-136-153-00	FILM 0.01MF 5%	50V
A27	*1-573-979-11	CONNECTOR, BOARD TO BOARD 11P		C543	1-136-153-00	FILM 0.01MF 5%	50V
A56	*1-564-508-11	PLUG, CONNECTOR 5P		C544	1-136-153-00	FILM 0.01MF 5%	50V
		<CAPACITOR>		C545	1-136-153-00	FILM 0.01MF 5%	50V
C201	1-124-910-11	ELECT 47MF 20%	50V	C569	1-126-355-11	ELECT 33MF 20%	160V
C202	1-124-903-11	ELECT 1MF 20%	50V	C1401	1-124-910-11	ELECT 47MF 20%	50V
C203	1-130-495-00	MYLAR 0.1MF 5%	50V	C1402	1-126-157-11	ELECT 10MF 20%	16V
C204	1-124-477-11	ELECT 47MF 20%	16V	C1403	1-126-157-11	ELECT 10MF 20%	16V
C205	1-124-557-11	ELECT 1000MF 20%	25V	C1404	1-126-157-11	ELECT 10MF 20%	16V
C206	1-126-101-11	ELECT 100MF 20%	16V	C1405	1-124-910-11	ELECT 47MF 20%	50V
C207	1-124-242-00	ELECT 33MF 20%	16V	C1406	1-126-101-11	ELECT 100MF 20%	16V
C210	1-102-121-00	CERAMIC 0.0022MF 10%	50V	C1407	1-126-057-11	ELECT 2200MF 20%	50V
C212	1-126-803-11	ELECT 47MF 20%	16V	C1408	1-136-165-00	FILM 0.1MF 5%	50V
C213	1-126-103-11	ELECT 470MF 20%	16V	C1409	1-136-165-00	FILM 0.1MF 5%	50V
C214	1-126-101-11	ELECT 100MF 20%	16V	C1413	1-124-234-00	ELECT 22MF 20%	16V
C215	1-126-803-11	ELECT 47MF 20%	50V	C1424	1-126-057-11	ELECT 2200MF 20%	50V
C216	1-126-101-11	ELECT 100MF 20%	16V	C1425	1-126-057-11	ELECT 2200MF 20%	50V
C217	1-126-803-11	ELECT 47MF 20%	25V	C1426	1-126-157-11	ELECT 10MF 20%	16V
C218	1-126-103-11	ELECT 470MF 20%	16V	C1429	1-126-101-11	ELECT 100MF 20%	16V
C219	1-124-443-00	ELECT 100MF 20%	10V	C1430	1-126-101-11	ELECT 100MF 20%	16V
C220	1-126-803-11	ELECT 47MF 20%	25V	C1431	1-124-916-11	ELECT 22MF 20%	50V
C223	1-126-803-11	ELECT 47MF 20%	25V	C1435	1-124-916-11	ELECT 22MF 20%	25V
C224	1-124-261-00	ELECT 10MF 20%	50V	C1440	1-126-336-11	ELECT 220MF 20%	25V
C225	1-124-120-11	ELECT 220MF 20%	16V	C1601	1-130-483-00	MYLAR 0.01MF 5%	50V
				C1603	1-136-153-00	FILM 0.01MF 5%	50V
				C1607	1-124-907-11	ELECT 10MF 20%	50V
				C1608	1-136-153-00	FILM 0.01MF 5%	50V
				C1609	1-136-153-00	FILM 0.01MF 5%	50V
				C1610	1-124-916-11	ELECT 22MF 20%	50V



Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifique.

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

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<DIODE>				<TRANSISTOR>			
D203	8-719-911-19	DIODE 1SS119		L502	1-459-313-00	COIL WITH CORE (HWC)	
D204	8-719-911-19	DIODE 1SS119		L515	1-410-645-31	INDUCTOR 100UH	
D205	8-719-110-36	DIODE RD13ES-B2		<TRANSISTOR>			
D206	8-719-911-19	DIODE 1SS119		Q201	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D207	8-719-911-19	DIODE 1SS119		Q202	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D208	8-719-911-19	DIODE 1SS119		Q203	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D209	8-719-911-19	DIODE 1SS119		Q501	8-729-119-80	TRANSISTOR 2SC2688-LK	
D211	8-719-110-36	DIODE RD13ES-B2		Q502	8-729-014-88	TRANSISTOR 2SC4891-CA	
D213	8-719-110-78	DIODE RD33ES-B2		Q504	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D214	8-719-911-19	DIODE 1SS119		Q505	8-729-201-32	TRANSISTOR 2SA1013-0	
D215	8-719-911-19	DIODE 1SS119		Q506	8-729-201-32	TRANSISTOR 2SA1013-0	
D216	8-719-911-19	DIODE 1SS119		Q507	8-729-304-92	TRANSISTOR 2SB649A-C	
D217	8-719-911-19	DIODE 1SS119		Q508	8-729-204-16	TRANSISTOR 2SA1301-0	
D219	8-719-911-19	DIODE 1SS119		Q509	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D220	8-719-510-48	DIODE D1N20R		Q510	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D221	8-719-911-19	DIODE 1SS119		Q511	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D222	8-719-911-19	DIODE 1SS119		Q512	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D223	8-719-911-19	DIODE 1SS119		Q1401	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D501	8-719-971-20	DIODE ERC38-06		Q1402	8-729-900-63	TRANSISTOR DTA124ES	
D502	8-719-971-20	DIODE ERC38-06		Q1407	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D503	8-719-300-80	DIODE RU-1C		Q1408	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D504	8-719-109-88	DIODE RD5.6ES-B1		Q1601	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D505	8-719-900-95	DIODE V09G		Q1602	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D506	8-719-900-95	DIODE V09G		Q1603	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D507	8-719-970-89	DIODE DD50R		Q1604	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D509	8-719-911-19	DIODE 1SS119		Q1605	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D510	8-719-109-71	DIODE RD3.9ES-B1		Q1606	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D511	8-719-911-19	DIODE 1SS119		Q1620	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D512	8-719-911-19	DIODE 1SS119		<RESISTOR>			
D513	8-719-911-19	DIODE 1SS119		R203	1-249-425-11	CARBON 4.7K 5%	1/4W
D514	8-719-911-19	DIODE 1SS119		R204	1-249-441-11	CARBON 100K 5%	1/4W
D515	8-719-911-19	DIODE 1SS119		R214	1-249-429-11	CARBON 10K 5%	1/4W
D1401	8-719-911-19	DIODE 1SS119		R215	1-249-437-11	CARBON 47K 5%	1/4W
D1402	8-719-911-19	DIODE 1SS119		R216	1-249-377-11	CARBON 0.47 5%	1/4W F
D1403	8-719-911-19	DIODE 1SS119		R219	1-249-426-11	CARBON 5.6K 5%	1/4W
D1404	8-719-110-88	DIODE RD39ES-B2		R221	1-249-409-11	CARBON 220 5%	1/4W
D1405	8-719-110-88	DIODE RD39ES-B2		R222	1-249-436-11	CARBON 39K 5%	1/4W
D1406	8-719-911-19	DIODE 1SS119		R223	1-249-434-11	CARBON 27K 5%	1/4W
D1407	8-719-110-88	DIODE RD39ES-B2		R224	1-249-409-11	CARBON 220 5%	1/4W
D1408	8-719-911-19	DIODE 1SS119		R225	1-249-417-11	CARBON 1K 5%	1/4W
D1409	8-719-110-88	DIODE RD39ES-B2		R229	1-216-488-11	METAL OXIDE 18K 5%	3W
D1607	8-719-911-19	DIODE 1SS119		R231	1-249-409-91	CARBON 220 5%	1/4W F
D1608	8-719-911-19	DIODE 1SS119		R232	1-215-906-11	METAL OXIDE 15 5%	3W F
<IC>				R233	1-249-409-11	CARBON 220 5%	1/4W
IC201	8-749-920-58	IC SI-3090CA		R234	1-249-409-11	CARBON 220 5%	1/4W
IC204	8-759-171-05	IC UPC7805H		R235	1-249-409-11	CARBON 220 5%	1/4W
IC205	8-759-144-82	IC UPC2405HF		R236	1-249-409-11	CARBON 220 5%	1/4W
IC206	8-759-231-58	IC TA7812S		R237	1-249-409-11	CARBON 220 5%	1/4W
IC207	8-749-920-58	IC SI-3090CA		R238	1-249-409-11	CARBON 220 5%	1/4W
IC506	8-752-057-18	IC CXA1315P		R239	1-249-409-11	CARBON 220 5%	1/4W
IC1401	8-759-246-70	IC TA8216H		R240	1-215-906-11	METAL OXIDE 15 5%	3W F
IC1601	8-752-058-71	IC CXA1656S		R241	1-249-401-11	CARBON 47 5%	1/4W
<COIL>				R242	1-215-906-11	METAL OXIDE 15 5%	3W F
L201	1-408-429-00	INDUCTOR 470UH		R243	1-217-294-00	WIREWOUND 4.7 10%	5W F
L205	1-410-645-31	INDUCTOR 100UH		R244	1-207-676-00	WIREWOUND 6.8 10%	5W F
L206	1-408-416-00	INDUCTOR 39UH		R296	1-249-417-11	CARBON 1K 5%	1/4W
L212	1-410-312-11	INDUCTOR 0.22UH		R501	1-247-895-00	CARBON 470K 5%	1/4W
L501 Δ	1-460-196-11	COIL, HORIZONTAL LINEARITY		R502	1-249-377-11	CARBON 0.47 5%	1/4W F
				R503	1-249-377-11	CARBON 0.47 5%	1/4W F
				R504	1-249-417-11	CARBON 1K 5%	1/4W



REF.NO.	PART NO.	DESCRIPTION	REMARK
R3023	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R3025	1-216-015-00	METAL GLAZE 39 5%	1/10W
R3026	1-216-041-00	METAL GLAZE 470 5%	1/10W
R3027	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
R3028	1-216-027-00	METAL GLAZE 120 5%	1/10W
R3030	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R3031	1-216-047-00	METAL GLAZE 820 5%	1/10W
R3032	1-216-041-00	METAL GLAZE 470 5%	1/10W
R3033	1-216-295-00	METAL GLAZE 0 5%	1/10W
R3034	1-216-041-00	METAL GLAZE 470 5%	1/10W
R3035	1-216-045-00	METAL GLAZE 680 5%	1/10W
R3036	1-216-045-00	METAL GLAZE 680 5%	1/10W
R3037	1-216-083-00	METAL GLAZE 27K 5%	1/10W
R3038	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R3039	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R3040	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R3041	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R3042	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R3043	1-216-099-00	METAL GLAZE 120K 5%	1/10W
R3044	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R3045	1-216-295-00	METAL GLAZE 0 5%	1/10W
R3050	1-216-033-00	METAL GLAZE 220 5%	1/10W
R3052	1-216-033-00	METAL GLAZE 220 5%	1/10W
R3053	1-216-037-00	METAL GLAZE 330 5%	1/10W
R3055	1-216-063-00	METAL GLAZE 3.9K 5%	1/10W
R3056	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W
R3057	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R3058	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R3059	1-216-079-00	METAL GLAZE 18K 5%	1/10W
R3060	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R3061	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R3062	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R3063	1-216-025-00	METAL GLAZE 100 5%	1/10W
R3064	1-216-295-00	METAL GLAZE 0 5%	1/10W
R3065	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R3066	1-216-053-00	METAL GLAZE 1.5K 5%	1/10W
R3067	1-216-295-00	METAL GLAZE 0 5%	1/10W
R3069	1-216-689-11	METAL GLAZE 39K 5%	1/10W
R3071	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R3073	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R3074	1-216-295-00	METAL GLAZE 0 5%	1/10W
R3075	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R3076	1-216-043-00	METAL GLAZE 560 5%	1/10W
R3077	1-216-037-00	METAL GLAZE 330 5%	1/10W
R3078	1-216-044-00	METAL GLAZE 620 5%	1/10W
R3079	1-216-040-00	METAL GLAZE 430 5%	1/10W
R3082	1-216-029-00	METAL GLAZE 150 5%	1/10W
R3084	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R3085	1-216-119-00	METAL GLAZE 820K 5%	1/10W
R3086	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R3087	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R3088	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R3089	1-216-033-00	METAL GLAZE 220 5%	1/10W
R3090	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R3091	1-216-053-00	METAL GLAZE 1.5K 5%	1/10W
R3092	1-216-053-00	METAL GLAZE 1.5K 5%	1/10W
R3098	1-216-296-00	METAL GLAZE 0 5%	1/8W
R3099	1-216-296-00	METAL GLAZE 0 5%	1/8W
R3100	1-216-296-00	METAL GLAZE 0 5%	1/8W
R3101	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W
R3102	1-216-047-00	METAL GLAZE 820 5%	1/10W
R3103	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R3104	1-216-049-00	METAL GLAZE 1K 5%	1/10W

REF.NO.	PART NO.	DESCRIPTION	REMARK
<VARIABLE RESISTOR>			
RV3001	1-241-630-11	RES, ADJ, CARBON 10K	
RV3002	1-238-019-11	RES, ADJ, CARBON 47K	
RV3003	1-241-630-11	RES, ADJ, CARBON 10K	
<CRYSTAL>			
X3001	1-567-505-11	OSCILLATOR, CRYSTAL	

*A-1306-436-A M BOARD, COMPLETE			

<CAPACITOR>			
C001	1-124-261-00	ELECT 10MF	20% 50V
C002	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C003	1-136-161-00	FILM 0.047MF	5% 50V
C004	1-126-301-11	ELECT 1MF	20% 50V
C005	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C014	1-124-910-11	ELECT 47MF	20% 50V
C017	1-124-589-11	ELECT 47MF	20% 16V
C018	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C019	1-164-695-11	CERAMIC CHIP 0.0022MF	5% 50V
C020	1-163-241-11	CERAMIC CHIP 39PF	5% 50V
C021	1-163-239-11	CERAMIC CHIP 33PF	5% 50V
C029	1-163-115-00	CERAMIC CHIP 82PF	5% 50V
C030	1-163-115-00	CERAMIC CHIP 82PF	5% 50V
C034	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C035	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C036	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C041	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C042	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C045	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C047	1-124-261-00	ELECT 10MF	20% 50V
C048	1-124-261-00	ELECT 10MF	20% 50V
C049	1-124-261-00	ELECT 10MF	20% 50V
C055	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V
C064	1-163-121-00	CERAMIC CHIP 150PF	5% 50V
C065	1-124-257-00	ELECT 2.2MF	20% 50V
<DIODE>			
D001	8-719-404-46	DIODE MA110	
D002	8-719-404-46	DIODE MA110	
D009	8-719-404-46	DIODE MA110	
D010	8-713-300-57	DIODE 1T33	
D011	8-719-404-46	DIODE MA110	
D012	8-719-404-46	DIODE MA110	
D014	8-719-404-46	DIODE MA110	
D015	8-719-404-46	DIODE MA110	
<IC>			
IC001	8-759-169-06	IC TMC73C247-10	
IC002	8-759-403-44	IC MN1280-S	
<COIL>			
L001	1-408-409-00	INDUCTOR 10UH	
L002	1-410-476-11	INDUCTOR 33UH	



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<CONNECTOR>							
M001	1-573-965-21	PIN, CONNECTOR (PC BOARD) 50P		R063	1-216-033-00	METAL GLAZE 220 5%	1/10W
M39	*1-564-521-11	PLUG, CONNECTOR 6P		R064	1-216-053-00	METAL GLAZE 1.5K 5%	1/10W
M45	*1-564-523-31	PLUG, CONNECTOR 8P		R065	1-216-033-00	METAL GLAZE 220 5%	1/10W
				R066	1-216-033-00	METAL GLAZE 220 5%	1/10W
<TRANSISTOR>							
Q001	8-729-216-22	TRANSISTOR 2SA1162-G		R067	1-216-033-00	METAL GLAZE 220 5%	1/10W
Q009	8-729-422-27	TRANSISTOR 2SD601A-Q		R068	1-216-033-00	METAL GLAZE 220 5%	1/10W
Q010	8-729-422-27	TRANSISTOR 2SD601A-Q		R069	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q011	8-729-422-27	TRANSISTOR 2SD601A-Q		R070	1-216-033-00	METAL GLAZE 220 5%	1/10W
Q012	8-729-422-27	TRANSISTOR 2SD601A-Q		R071	1-216-033-00	METAL GLAZE 220 5%	1/10W
Q013	8-729-216-22	TRANSISTOR 2SA1162-G		R072	1-216-033-00	METAL GLAZE 220 5%	1/10W
Q014	8-729-422-27	TRANSISTOR 2SD601A-Q		R073	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
<RESISTOR>							
R001	1-216-045-00	METAL GLAZE 680 5%	1/10W	R074	1-216-033-00	METAL GLAZE 220 5%	1/10W
R002	1-216-097-00	METAL GLAZE 100K 5%	1/10W	R075	1-216-033-00	METAL GLAZE 220 5%	1/10W
R003	1-216-121-00	METAL GLAZE 1M 5%	1/10W	R076	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R004	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R077	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R005	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R078	1-216-033-00	METAL GLAZE 220 5%	1/10W
R006	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R079	1-216-025-00	METAL GLAZE 100 5%	1/10W
R007	1-216-027-00	METAL GLAZE 120 5%	1/10W	R080	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
R008	1-216-041-00	METAL GLAZE 470 5%	1/10W	R081	1-216-033-00	METAL GLAZE 220 5%	1/10W
R009	1-216-027-00	METAL GLAZE 120 5%	1/10W	R082	1-216-033-00	METAL GLAZE 220 5%	1/10W
R011	1-216-033-00	METAL GLAZE 220 5%	1/10W	R083	1-216-033-00	METAL GLAZE 220 5%	1/10W
R012	1-216-033-00	METAL GLAZE 220 5%	1/10W	R084	1-216-097-00	METAL GLAZE 100K 5%	1/10W
R013	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W	R085	1-216-033-00	METAL GLAZE 220 5%	1/10W
R014	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R086	1-216-033-00	METAL GLAZE 220 5%	1/10W
R015	1-216-089-00	METAL GLAZE 47K 5%	1/10W	R087	1-216-033-00	METAL GLAZE 220 5%	1/10W
R016	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W	R088	1-216-033-00	METAL GLAZE 220 5%	1/10W
R017	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W	R089	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R018	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R090	1-216-033-00	METAL GLAZE 220 5%	1/10W
R019	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R091	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R033	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R092	1-216-077-00	METAL GLAZE 15K 5%	1/10W
R034	1-216-033-00	METAL GLAZE 220 5%	1/10W	R093	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R035	1-216-033-00	METAL GLAZE 220 5%	1/10W	R094	1-216-033-00	METAL GLAZE 220 5%	1/10W
R036	1-216-033-00	METAL GLAZE 220 5%	1/10W	R095	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R037	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R096	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R038	1-216-033-00	METAL GLAZE 220 5%	1/10W	R097	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R039	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R098	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R040	1-216-089-00	METAL GLAZE 47K 5%	1/10W	R099	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R041	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R100	1-216-025-00	METAL GLAZE 100 5%	1/10W
R042	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R101	1-216-025-00	METAL GLAZE 100 5%	1/10W
R043	1-216-033-00	METAL GLAZE 220 5%	1/10W	R102	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R044	1-216-033-00	METAL GLAZE 220 5%	1/10W	R103	1-216-033-00	METAL GLAZE 220 5%	1/10W
R045	1-216-025-00	METAL GLAZE 100 5%	1/10W	R104	1-216-033-00	METAL GLAZE 220 5%	1/10W
R046	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	<CRYSTAL>			
R047	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	X001	1-579-743-11	VIBRATOR, CRYSTAL	
R048	1-216-033-00	METAL GLAZE 220 5%	1/10W	*****			
R049	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	*A-1346-137-A	E2 BOARD, COMPLETE	*****	
R050	1-216-295-00	METAL GLAZE 0 5%	1/10W	<CAPACITOR>			
R051	1-216-033-00	METAL GLAZE 220 5%	1/10W	C2302	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
R052	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	C2303	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
R053	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	C2310	1-163-105-00	CERAMIC CHIP 33PF	5% 50V
R054	1-216-073-00	METAL GLAZE 10K 5%	1/10W	C2314	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
R055	1-216-073-00	METAL GLAZE 10K 5%	1/10W	C2315	1-126-157-11	ELECT 10MF	20% 16V
R056	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	C2316	1-126-157-11	ELECT 10MF	20% 16V
R057	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	C2317	1-126-157-11	ELECT 10MF	20% 16V
R058	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	C2318	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
R059	1-216-073-00	METAL GLAZE 10K 5%	1/10W	C2320	1-124-589-11	ELECT 47MF	20% 16V
R060	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	C2321	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C2322	1-124-234-00	ELECT 22MF	20%	16V	Q2305	8-729-903-10	TRANSISTOR FMW1
C2323	1-124-234-00	ELECT 22MF	20%	16V	Q2306	8-729-403-27	TRANSISTOR XN4401
C2324	1-124-234-00	ELECT 22MF	20%	16V	Q2307	8-729-403-27	TRANSISTOR XN4401
C2325	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	Q2308	8-729-403-27	TRANSISTOR XN4401
C2326	1-124-589-11	ELECT 47MF	20%	16V	Q2309	8-729-903-10	TRANSISTOR FMW1
C2327	1-164-505-11	CERAMIC CHIP 2.2MF		16V	Q2310	8-729-403-27	TRANSISTOR XN4401
C2328	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	Q2311	8-729-903-10	TRANSISTOR FMW1
C2329	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	Q2312	8-729-403-27	TRANSISTOR XN4401
C2331	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	Q2313	8-729-903-10	TRANSISTOR FMW1
C2332	1-124-234-00	ELECT 22MF	20%	16V	Q2314	8-729-403-27	TRANSISTOR XN4401
C2333	1-124-234-00	ELECT 22MF	20%	16V	Q2315	8-729-903-10	TRANSISTOR FMW1
C2334	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	Q2317	8-729-216-22	TRANSISTOR 2SA1162-G
C2335	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	Q2318	8-729-216-22	TRANSISTOR 2SA1162-G
C2336	1-126-163-11	ELECT 4.7MF	20%	16V	Q2319	8-729-216-22	TRANSISTOR 2SA1162-G
C2337	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	Q2320	8-729-422-27	TRANSISTOR 2SD601A-Q
C2338	1-163-038-00	CERAMIC CHIP 0.1MF		25V	Q2321	8-729-422-27	TRANSISTOR 2SD601A-Q
C2340	1-216-133-00	METAL GLAZE 3.3M	5%	1/10W	Q2322	8-729-422-27	TRANSISTOR 2SD601A-Q
C2341	1-135-217-21	TANTAL. CHIP 15MF	20%	6.3V	Q2324	8-729-216-22	TRANSISTOR 2SA1162-G
C2345	1-164-505-11	CERAMIC CHIP 2.2MF		16V	Q2326	8-729-422-27	TRANSISTOR 2SD601A-Q
C2346	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	Q2327	8-729-422-27	TRANSISTOR 2SD601A-Q
C2347	1-163-367-11	CERAMIC CHIP 39PF	5%	50V	Q2328	8-729-925-79	TRANSISTOR 1MX3
C2349	1-164-505-11	CERAMIC CHIP 2.2MF		16V	Q2329	8-729-925-79	TRANSISTOR 1MX3
C2350	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	Q2330	8-729-903-10	TRANSISTOR FMW1
C2351	1-164-505-11	CERAMIC CHIP 2.2MF		16V	Q2336	8-729-925-79	TRANSISTOR 1MX3
C2352	1-164-505-11	CERAMIC CHIP 2.2MF		16V	Q2337	8-729-925-79	TRANSISTOR 1MX3
C2353	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	Q2339	8-729-422-27	TRANSISTOR 2SD601A-Q
C2354	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	Q2340	8-729-422-27	TRANSISTOR 2SD601A-Q
C2357	1-126-301-11	ELECT 1MF	20%	50V	Q2341	8-729-422-27	TRANSISTOR 2SD601A-Q
C2360	1-163-109-00	CERAMIC CHIP 47PF	5%	50V			
<DIODE>				<RESISTOR>			
D2306	8-719-404-46	DIODE MA110		R2302	1-216-049-00	METAL GLAZE 1K	5% 1/10W
D2307	8-719-946-98	DIODE FMN1		R2303	1-216-049-00	METAL GLAZE 1K	5% 1/10W
D2308	8-719-946-98	DIODE FMN1		R2304	1-216-049-00	METAL GLAZE 1K	5% 1/10W
D2309	8-719-404-46	DIODE MA110		R2305	1-216-033-00	METAL GLAZE 220	5% 1/10W
D2312	8-719-404-46	DIODE MA110		R2306	1-216-045-00	METAL GLAZE 680	5% 1/10W
D2313	8-719-404-46	DIODE MA110		R2307	1-216-045-00	METAL GLAZE 680	5% 1/10W
D2314	8-713-300-57	DIODE 1T33		R2308	1-216-045-00	METAL GLAZE 680	5% 1/10W
D2317	8-719-404-46	DIODE MA110		R2309	1-216-041-00	METAL GLAZE 470	5% 1/10W
<CONNECTOR>				R2310	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W
E2-002	1-573-965-21	PIN, CONNECTOR (PC BOARD) 50P		R2311	1-216-025-00	METAL GLAZE 100	5% 1/10W
E2-25	*1-564-521-31	PLUG, CONNECTOR 6P		R2312	1-216-043-00	METAL GLAZE 560	5% 1/10W
E2-26	*1-564-522-11	PLUG, CONNECTOR 7P		R2313	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W
E2-46	*1-564-518-11	PLUG, CONNECTOR 3P		R2314	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
<IC>				R2315	1-216-081-00	METAL GLAZE 22K	5% 1/10W
IC2301	8-759-066-52	IC PCA8510T/012-T		R2317	1-216-041-00	METAL GLAZE 470	5% 1/10W
IC2303	8-759-925-75	IC SN74HC05ANS		R2318	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W
IC2304	8-752-037-15	IC CXA1387S		R2319	1-216-079-00	METAL GLAZE 18K	5% 1/10W
IC2306	8-759-011-65	IC MC74HC4053F		R2320	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
IC2307	8-752-058-68	IC CXA1315M		R2321	1-216-063-00	METAL GLAZE 3.9K	5% 1/10W
<COIL>				R2322	1-216-049-00	METAL GLAZE 1K	5% 1/10W
L2304	1-408-414-00	INDUCTOR 27UH		R2323	1-216-067-00	METAL GLAZE 5.6K	5% 1/10W
<TRANSISTOR>				R2324	1-216-049-00	METAL GLAZE 1K	5% 1/10W
Q2301	8-729-903-10	TRANSISTOR FMW1		R2325	1-216-049-00	METAL GLAZE 1K	5% 1/10W
Q2303	8-729-403-27	TRANSISTOR XN4401		R2326	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
Q2304	8-729-925-79	TRANSISTOR 1MX3		R2327	1-216-063-00	METAL GLAZE 3.9K	5% 1/10W
				R2328	1-216-025-00	METAL GLAZE 100	5% 1/10W
				R2329	1-216-025-00	METAL GLAZE 100	5% 1/10W
				R2330	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
				R2331	1-216-063-00	METAL GLAZE 3.9K	5% 1/10W
				R2332	1-216-025-00	METAL GLAZE 100	5% 1/10W
				R2333	1-216-067-00	METAL GLAZE 5.6K	5% 1/10W
				R2334	1-216-295-00	METAL GLAZE 0	5% 1/10W

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R2335	1-216-295-00	METAL GLAZE	0 5% 1/10W	R3310	1-216-001-00	METAL GLAZE	10 5% 1/10W
R2336	1-216-295-00	METAL GLAZE	0 5% 1/10W	R3311	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R2337	1-216-033-00	METAL GLAZE	220 5% 1/10W	R3312	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R2338	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R3313	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R2340	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R3314	1-216-689-11	METAL GLAZE	39K 5% 1/10W
R2341	1-216-041-00	METAL GLAZE	470 5% 1/10W	R3315	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R2342	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R3316	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R2343	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R3318	1-216-095-00	METAL GLAZE	82K 5% 1/10W
R2344	1-216-033-00	METAL GLAZE	220 5% 1/10W	R3319	1-216-095-00	METAL GLAZE	82K 5% 1/10W
R2345	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R3320	1-216-017-00	METAL GLAZE	47 5% 1/10W
R2346	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R3321	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R2347	1-216-083-00	METAL GLAZE	27K 5% 1/10W	R3322	1-216-101-00	METAL GLAZE	150K 5% 1/10W
R2348	1-216-655-11	METAL CHIP	1.5K 0.50% 1/10W	R3324	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R2349	1-216-025-00	METAL GLAZE	100 5% 1/10W	R3325	1-216-025-00	METAL GLAZE	100 5% 1/10W
R2350	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R3328	1-216-001-00	METAL GLAZE	10 5% 1/10W
R2351	1-216-033-00	METAL GLAZE	220 5% 1/10W	R3330	1-216-033-00	METAL GLAZE	220 5% 1/10W
R2352	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R3331	1-216-033-00	METAL GLAZE	220 5% 1/10W
R2353	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R3332	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R2354	1-216-210-00	METAL GLAZE	3.3K 5% 1/8W	R3333	1-216-657-11	METAL CHIP	1.8K 0.50% 1/10W
R2355	1-216-178-00	METAL GLAZE	150 5% 1/8W	R3334	1-216-661-11	METAL CHIP	2.7K 0.50% 1/10W
R2356	1-216-677-11	METAL CHIP	12K 0.50% 1/10W	R3335	1-216-025-00	METAL GLAZE	100 5% 1/10W
R2357	1-216-670-11	METAL CHIP	6.2K 0.50% 1/10W	R3336	1-216-683-11	METAL CHIP	22K 0.50% 1/10W
R2359	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R3337	1-216-685-11	METAL CHIP	27K 0.50% 1/10W
R2360	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R3339	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R2361	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R3340	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R2362	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R3341	1-216-677-11	METAL CHIP	12K 0.50% 1/10W
R2363	1-216-041-00	METAL GLAZE	470 5% 1/10W	R3342	1-216-670-11	METAL CHIP	6.2K 0.50% 1/10W
R2364	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R3343	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R2365	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R3344	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R2366	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R3347	1-216-687-11	METAL CHIP	33K 0.50% 1/10W
R2367	1-216-043-00	METAL GLAZE	560 5% 1/10W	R3348	1-216-681-11	METAL CHIP	18K 0.50% 1/10W
R2368	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R3349	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R2371	1-216-033-00	METAL GLAZE	220 5% 1/10W	R3350	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R2374	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R3351	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R2375	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R3352	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R2376	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R3353	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R2377	1-216-025-00	METAL GLAZE	100 5% 1/10W	R3354	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R2378	1-216-025-00	METAL GLAZE	100 5% 1/10W	R3355	1-216-655-11	METAL CHIP	1.5K 0.50% 1/10W
R2379	1-216-043-00	METAL GLAZE	560 5% 1/10W	R3357	1-216-654-11	METAL CHIP	1.3K 0.50% 1/10W
R2380	1-216-043-00	METAL GLAZE	560 5% 1/10W	R3358	1-216-659-11	METAL CHIP	2.2K 0.50% 1/10W
R2381	1-216-043-00	METAL GLAZE	560 5% 1/10W	R3359	1-216-653-11	METAL CHIP	1.2K 0.50% 1/10W
R2382	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R3360	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R2384	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R3361	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R2385	1-216-075-00	METAL GLAZE	12K 5% 1/10W	R3362	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R2386	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R3364	1-216-295-00	METAL GLAZE	0 5% 1/10W
R2387	1-216-025-00	METAL GLAZE	100 5% 1/10W	R3365	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R2388	1-216-017-00	METAL GLAZE	47 5% 1/10W	R3367	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R2389	1-216-206-00	METAL GLAZE	2.2K 5% 1/8W	R3368	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R2390	1-216-043-00	METAL GLAZE	560 5% 1/10W	R3369	1-216-001-00	METAL GLAZE	10 5% 1/10W
R2392	1-216-206-00	METAL GLAZE	2.2K 5% 1/8W	R3370	1-216-001-00	METAL GLAZE	10 5% 1/10W
R2393	1-216-017-00	METAL GLAZE	47 5% 1/10W	R3371	1-216-001-00	METAL GLAZE	10 5% 1/10W
R2394	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R3373	1-216-673-11	METAL CHIP	8.2K 0.50% 1/10W
R2395	1-216-001-00	METAL GLAZE	10 5% 1/10W	R3374	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R2396	1-216-206-00	METAL GLAZE	2.2K 5% 1/8W	R3375	1-216-658-11	METAL CHIP	2K 0.50% 1/10W
R2397	1-216-043-00	METAL GLAZE	560 5% 1/10W	R3376	1-216-647-11	METAL CHIP	680 0.50% 1/10W
R2399	1-216-001-00	METAL GLAZE	10 5% 1/10W	R3377	1-216-647-11	METAL CHIP	680 0.50% 1/10W
R3301	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R3378	1-216-659-11	METAL CHIP	2.2K 0.50% 1/10W
R3302	1-216-001-00	METAL GLAZE	10 5% 1/10W	R3379	1-216-655-11	METAL CHIP	1.5K 0.50% 1/10W
R3303	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	R3380	1-216-661-11	METAL CHIP	2.7K 0.50% 1/10W
R3304	1-216-091-00	METAL GLAZE	56K 5% 1/10W	R3381	1-216-025-00	METAL GLAZE	100 5% 1/10W
R3306	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R3382	1-216-295-00	METAL GLAZE	0 5% 1/10W
R3307	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R3392	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R3308	1-216-043-00	METAL GLAZE	560 5% 1/10W	R3401	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R3309	1-216-049-00	METAL GLAZE	1K 5% 1/10W				

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R7312	1-216-049-00	METAL GLAZE 1K 5%	1/10W				
R7313	1-216-047-00	METAL GLAZE 820 5%	1/10W				
R7314	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W				
<CRYSTAL>							
X2301	1-577-071-11	VIBRATOR, CERAMIC					

	*A-1346-138-A	E1 BOARD, COMPLETE					

<CAPACITOR>							
C301	1-163-010-11	CERAMIC CHIP 0.0012MF	10% 50V	C361	1-126-301-11	ELECT 1MF	20% 50V
C303	1-126-157-11	ELECT 10MF	20% 16V	C362	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C304	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C363	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C305	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C364	1-126-301-11	ELECT 1MF	20% 50V
C306	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C365	1-164-343-11	CERAMIC CHIP 0.056MF	10% 25V
C309	1-164-505-11	CERAMIC CHIP 2.2MF	16V	C366	1-124-257-00	ELECT 2.2MF	20% 50V
C310	1-163-109-00	CERAMIC CHIP 47PF	5% 50V	C367	1-126-157-11	ELECT 10MF	20% 16V
C314	1-124-915-11	ELECT 10MF	20% 16V	C368	1-124-234-00	ELECT 22MF	20% 16V
C315	1-164-505-11	CERAMIC CHIP 2.2MF	16V	C369	1-163-001-11	CERAMIC CHIP 220PF	10% 50V
C319	1-126-157-11	ELECT 10MF	20% 16V	C370	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C320	1-124-465-00	ELECT 0.47MF	20% 50V	C371	1-124-126-00	ELECT 47MF	20% 16V
C321	1-163-125-00	CERAMIC CHIP 220PF	5% 50V	C372	1-124-589-11	ELECT 47MF	20% 16V
C322	1-163-003-11	CERAMIC CHIP 330PF	10% 50V	C373	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C323	1-163-099-00	CERAMIC CHIP 18PF	5% 50V	C378	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C324	1-124-234-00	ELECT 22MF	20% 16V	C379	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C325	1-104-563-11	FILM CHIP 0.1MF	5% 16V	C380	1-163-137-00	CERAMIC CHIP 680PF	5% 50V
C326	1-104-563-11	FILM CHIP 0.1MF	5% 16V	C381	1-163-101-00	CERAMIC CHIP 22PF	5% 50V
C327	1-104-563-11	FILM CHIP 0.1MF	5% 16V	C382	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C328	1-126-157-11	ELECT 10MF	20% 16V	C383	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C329	1-126-157-11	ELECT 10MF	20% 16V	C384	1-163-095-00	CERAMIC CHIP 12PF	5% 50V
C330	1-126-157-11	ELECT 10MF	20% 16V	<DIODE>			
C331	1-126-301-11	ELECT 1MF	20% 50V	D301	8-719-404-46	DIODE MA110	
C332	1-124-584-00	ELECT 100MF	20% 10V	D302	8-719-404-46	DIODE MA110	
C333	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V	D303	8-719-404-46	DIODE MA110	
C334	1-137-491-11	FILM CHIP 0.1MF	5% 25V	D304	8-719-404-46	DIODE MA110	
C335	1-136-169-00	FILM 0.22MF	5% 50V	D305	8-719-404-46	DIODE MA110	
C336	1-126-301-11	ELECT 1MF	20% 50V	D306	8-719-158-15	DIODE RD5.6S-B	
C337	1-126-301-11	ELECT 1MF	20% 50V	D307	8-719-404-46	DIODE MA110	
C338	1-124-584-00	ELECT 100MF	20% 10V	D310	8-719-158-15	DIODE RD5.6S-B	
C339	1-124-791-11	ELECT 1MF	20% 50V	D312	8-719-404-46	DIODE MA110	
C340	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	D313	8-719-404-46	DIODE MA110	
C341	1-126-157-11	ELECT 10MF	20% 16V	D314	8-719-404-46	DIODE MA110	
C342	1-124-465-00	ELECT 0.47MF	20% 50V	D315	8-719-404-46	DIODE MA110	
C343	1-124-589-11	ELECT 47MF	20% 16V	D316	8-719-404-46	DIODE MA110	
C344	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	D317	8-719-404-46	DIODE MA110	
C345	1-124-767-00	ELECT 2.2MF	20% 50V	D318	8-719-404-46	DIODE MA110	
C346	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	D319	8-719-404-46	DIODE MA110	
C347	1-136-169-00	FILM 0.22MF	5% 50V	D320	8-719-404-46	DIODE MA110	
C348	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	D321	8-719-400-94	DIODE MA3130	
C349	1-126-301-11	ELECT 1MF	20% 50V	<DELAY LINE>			
C350	1-126-301-11	ELECT 1MF	20% 50V	DL302	1-415-817-11	DELAY LINE	
C351	1-163-002-11	CERAMIC CHIP 270PF	10% 50V	<CONNECTOR>			
C352	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V	E1-001	1-573-965-21	PIN, CONNECTOR (PC BOARD) 50P	
C353	1-126-163-11	ELECT 4.7MF	20% 50V	E1-24	*1-564-523-11	PLUG, CONNECTOR 8P	
C354	1-136-169-00	FILM 0.22MF	5% 50V	E1-25	*1-564-521-31	PLUG, CONNECTOR 6P	
C355	1-124-465-00	ELECT 0.47MF	20% 50V	E1-26	*1-564-522-11	PLUG, CONNECTOR 7P	
C356	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	<IC>			
C357	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	IC301	8-752-058-68	IC CXA1315M	
C358	1-124-767-00	ELECT 2.2MF	20% 50V	IC302	8-752-057-68	IC CXA1464AS	
C360	1-137-491-11	FILM CHIP 0.1MF	5% 25V	IC303	8-759-106-02	IC UPC4570G2	
				<COIL>			
				L301	1-410-064-11	INDUCTOR 2.7MMH	
				L307	1-410-944-31	INDUCTOR CHIP 15UH	
				L308	1-410-946-31	INDUCTOR CHIP 22UH	

E1

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<TRANSISTOR>				R343	1-216-077-00	METAL GLAZE 15K 5%	1/10W
Q301	8-729-925-79	TRANSISTOR IMX3		R344	1-216-081-00	METAL GLAZE 22K 5%	1/10W
Q302	8-729-925-79	TRANSISTOR IMX3		R345	1-216-292-11	METAL GLAZE 8.2M 5%	1/8W
Q303	8-729-422-27	TRANSISTOR 2SD601A-Q		R346	1-216-081-00	METAL GLAZE 22K 5%	1/10W
Q304	8-729-907-46	TRANSISTOR IMZ1		R347	1-216-081-00	METAL GLAZE 22K 5%	1/10W
Q305	8-729-925-79	TRANSISTOR IMX3		R348	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q306	8-729-422-27	TRANSISTOR 2SD601A-Q		R349	1-216-295-00	METAL GLAZE 0 5%	1/10W
Q307	8-729-903-10	TRANSISTOR FMW1		R350	1-216-089-00	METAL GLAZE 47K 5%	1/10W
Q309	8-729-422-27	TRANSISTOR 2SD601A-Q		R351	1-216-674-11	METAL CHIP 9.1K 0.50%	1/10W
Q310	8-729-422-27	TRANSISTOR 2SD601A-Q		R352	1-216-011-00	METAL GLAZE 27 5%	1/10W
Q311	8-729-403-27	TRANSISTOR XN4401		R353	1-216-001-00	METAL GLAZE 10 5%	1/10W
Q312	8-729-422-27	TRANSISTOR 2SD601A-Q		R354	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q314	8-729-403-27	TRANSISTOR XN4401		R355	1-216-001-00	METAL GLAZE 10 5%	1/10W
Q315	8-729-422-27	TRANSISTOR 2SD601A-Q		R356	1-216-001-00	METAL GLAZE 10 5%	1/10W
Q316	8-729-422-27	TRANSISTOR 2SD601A-Q		R357	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q317	8-729-216-22	TRANSISTOR 2SA1162-G		R358	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q321	8-729-925-79	TRANSISTOR IMX3		R359	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q322	8-729-216-22	TRANSISTOR 2SA1162-G		R360	1-216-119-00	METAL GLAZE 820K 5%	1/10W
Q323	8-729-422-27	TRANSISTOR 2SD601A-Q		R361	1-216-025-00	METAL GLAZE 100 5%	1/10W
Q324	8-729-216-22	TRANSISTOR 2SA1162-G		R362	1-216-079-00	METAL GLAZE 18K 5%	1/10W
Q325	8-729-216-22	TRANSISTOR 2SA1162-G		R363	1-216-295-00	METAL GLAZE 0 5%	1/10W
Q326	8-729-422-27	TRANSISTOR 2SD601A-Q		R364	1-216-045-00	METAL GLAZE 680 5%	1/10W
Q327	8-729-422-27	TRANSISTOR 2SD601A-Q		R365	1-216-017-00	METAL GLAZE 47 5%	1/10W
Q328	8-729-422-27	TRANSISTOR 2SD601A-Q		R366	1-216-001-00	METAL GLAZE 10 5%	1/10W
Q329	8-729-925-79	TRANSISTOR IMX3		R367	1-216-045-00	METAL GLAZE 680 5%	1/10W
Q330	8-729-925-79	TRANSISTOR IMX3		R368	1-216-001-00	METAL GLAZE 10 5%	1/10W
Q333	8-729-925-79	TRANSISTOR IMX3		R369	1-216-033-00	METAL GLAZE 220 5%	1/10W
Q334	8-729-422-27	TRANSISTOR 2SD601A-Q		R370	1-216-033-00	METAL GLAZE 220 5%	1/10W
Q335	8-729-907-46	TRANSISTOR IMZ1		R371	1-216-033-00	METAL GLAZE 220 5%	1/10W
Q340	8-729-422-27	TRANSISTOR 2SD601A-Q		R372	1-216-031-00	METAL GLAZE 180 5%	1/10W
Q342	8-729-925-79	TRANSISTOR IMX3		R373	1-216-671-11	METAL CHIP 6.8K 0.50%	1/10W
Q344	8-729-216-22	TRANSISTOR 2SA1162-G		R374	1-216-037-00	METAL GLAZE 330 5%	1/10W
<RESISTOR>				R375	1-216-037-00	METAL GLAZE 330 5%	1/10W
R301	1-216-025-00	METAL GLAZE 100 5%	1/10W	R376	1-216-037-00	METAL GLAZE 330 5%	1/10W
R302	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R377	1-216-033-00	METAL GLAZE 220 5%	1/10W
R303	1-216-079-00	METAL GLAZE 18K 5%	1/10W	R378	1-216-033-00	METAL GLAZE 220 5%	1/10W
R304	1-216-081-00	METAL GLAZE 22K 5%	1/10W	R379	1-216-033-00	METAL GLAZE 220 5%	1/10W
R305	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W	R380	1-216-033-00	METAL GLAZE 220 5%	1/10W
R306	1-216-081-00	METAL GLAZE 22K 5%	1/10W	R381	1-216-033-00	METAL GLAZE 220 5%	1/10W
R307	1-216-089-00	METAL GLAZE 47K 5%	1/10W	R382	1-216-033-00	METAL GLAZE 220 5%	1/10W
R308	1-216-037-00	METAL GLAZE 330 5%	1/10W	R383	1-216-653-11	METAL CHIP 1.2K 0.50%	1/10W
R309	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R384	1-216-041-00	METAL GLAZE 470 5%	1/10W
R310	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R385	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R312	1-216-043-00	METAL GLAZE 560 5%	1/10W	R386	1-216-687-11	METAL CHIP 33K 0.50%	1/10W
R313	1-216-035-00	METAL GLAZE 270 5%	1/10W	R387	1-216-033-00	METAL GLAZE 220 5%	1/10W
R314	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W	R388	1-216-033-00	METAL GLAZE 220 5%	1/10W
R316	1-216-035-00	METAL GLAZE 270 5%	1/10W	R389	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R317	1-216-121-00	METAL GLAZE 1M 5%	1/10W	R390	1-216-033-00	METAL GLAZE 220 5%	1/10W
R320	1-216-039-00	METAL GLAZE 390 5%	1/10W	R391	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R325	1-216-033-00	METAL GLAZE 220 5%	1/10W	R393	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W
R326	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R394	1-216-109-00	METAL GLAZE 330K 5%	1/10W
R331	1-216-017-00	METAL GLAZE 47 5%	1/10W	R395	1-216-071-00	METAL GLAZE 8.2K 5%	1/10W
R332	1-216-657-11	METAL CHIP 1.8K 0.50%	1/10W	R396	1-216-105-00	METAL GLAZE 220K 5%	1/10W
R333	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W	R397	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R336	1-216-047-00	METAL GLAZE 820 5%	1/10W	R398	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R338	1-216-043-00	METAL GLAZE 560 5%	1/10W	R399	1-216-077-00	METAL GLAZE 15K 5%	1/10W
R339	1-216-047-00	METAL GLAZE 820 5%	1/10W	R1301	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R340	1-216-651-11	METAL CHIP 1K 0.50%	1/10W	R1302	1-216-045-00	METAL GLAZE 680 5%	1/10W
R341	1-216-043-00	METAL GLAZE 560 5%	1/10W	R1303	1-216-085-00	METAL GLAZE 33K 5%	1/10W
				R1304	1-216-081-00	METAL GLAZE 22K 5%	1/10W
				R1305	1-216-025-00	METAL GLAZE 100 5%	1/10W
				R1306	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
				R1307	1-216-073-00	METAL GLAZE 10K 5%	1/10W
				R1308	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W

Y2

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C466	1-130-485-00	MYLAR 0.015MF	5% 50V	R475	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W
C467	1-136-169-00	FILM 0.22MF	5% 50V	R476	1-216-669-11	METAL CHIP 5.6K	0.50% 1/10W
C468	1-136-169-00	FILM 0.22MF	5% 50V	R477	1-216-675-11	METAL CHIP 10K	0.50% 1/10W
C469	1-126-157-11	ELECT 10MF	20% 16V	R478	1-216-089-00	METAL GLAZE 47K	5% 1/10W
C470	1-126-157-11	ELECT 10MF	20% 16V	R479	1-216-669-11	METAL CHIP 5.6K	0.50% 1/10W
C471	1-124-589-11	ELECT 47MF	20% 16V	R480	1-216-675-11	METAL CHIP 10K	0.50% 1/10W
C472	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	R481	1-216-089-00	METAL GLAZE 47K	5% 1/10W
C473	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	R482	1-216-089-00	METAL GLAZE 47K	5% 1/10W
C474	1-124-234-00	ELECT 22MF	20% 16V	R483	1-216-089-00	METAL GLAZE 47K	5% 1/10W
C475	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	R485	1-216-073-00	METAL GLAZE 10K	5% 1/10W
C476	1-124-234-00	ELECT 22MF	20% 16V	R486	1-216-073-00	METAL GLAZE 10K	5% 1/10W
C477	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	R488	1-216-295-00	METAL GLAZE 0	5% 1/10W
C478	1-124-478-11	ELECT 100MF	20% 25V	R494	1-216-025-00	METAL GLAZE 100	5% 1/10W
C479	1-126-163-11	ELECT 4.7MF	20% 50V	R495	1-216-025-00	METAL GLAZE 100	5% 1/10W
C480	1-124-768-11	ELECT 4.7MF	20% 50V	R496	1-216-025-00	METAL GLAZE 100	5% 1/10W
C481	1-124-768-11	ELECT 4.7MF	20% 50V	R497	1-216-033-00	METAL GLAZE 220	5% 1/10W
C482	1-126-163-11	ELECT 4.7MF	20% 50V	R498	1-216-025-00	METAL GLAZE 100	5% 1/10W
C483	1-163-113-00	CERAMIC CHIP 68PF	5% 50V	R499	1-216-025-00	METAL GLAZE 100	5% 1/10W
C484	1-163-113-00	CERAMIC CHIP 68PF	5% 50V	R500	1-216-081-00	METAL GLAZE 22K	5% 1/10W
C485	1-163-038-00	CERAMIC CHIP 0.1MF	25V	R501	1-216-669-11	METAL CHIP 5.6K	0.50% 1/10W
C487	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	R502	1-216-033-00	METAL GLAZE 220	5% 1/10W
C488	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	R503	1-216-663-11	METAL CHIP 3.3K	0.50% 1/10W
<DIODE>				R504	1-216-675-11	METAL CHIP 10K	0.50% 1/10W
D405	8-719-107-13	DIODE RD18M-B1		R507	1-216-295-00	METAL GLAZE 0	5% 1/10W
D406	8-719-107-13	DIODE RD18M-B1		R509	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
D407	8-719-107-13	DIODE RD18M-B1		R510	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
D408	8-719-105-83	DIODE RD5.1M-B3		R512	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
D409	8-719-981-50	DIODE RB-100A		R513	1-216-667-11	METAL CHIP 4.7K	0.50% 1/10W
D410	8-719-981-50	DIODE RB-100A		R515	1-216-295-00	METAL GLAZE 0	5% 1/10W
D413	8-719-158-19	DIODE RD6.2S-B		R517	1-216-025-00	METAL GLAZE 100	5% 1/10W
D414	8-719-158-55	DIODE RD15S-B		R518	1-216-089-00	METAL GLAZE 47K	5% 1/10W
D415	8-719-158-55	DIODE RD15S-B		R519	1-216-295-00	METAL GLAZE 0	5% 1/10W
<IC>				R521	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
IC403	8-759-996-43	IC RC4558PS		R522	1-216-033-00	METAL GLAZE 220	5% 1/10W
IC404	8-759-067-24	IC 24C04AI/P		R523	1-216-033-00	METAL GLAZE 220	5% 1/10W
IC406	8-752-037-24	IC CXA1264AS		R524	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
IC407	8-759-245-75	IC TA8184P		R525	1-216-067-00	METAL GLAZE 5.6K	5% 1/10W
IC408	8-752-057-18	IC CXA1315P		R526	1-216-049-00	METAL GLAZE 1K	5% 1/10W
<TRANSISTOR>				R527	1-218-754-11	METAL CHIP 120K	0.50% 1/10W
Q404	8-729-216-22	TRANSISTOR 2SA1162-G		R528	1-216-691-11	METAL CHIP 47K	0.50% 1/10W
Q405	8-729-216-22	TRANSISTOR 2SA1162-G		R529	1-216-097-00	METAL GLAZE 100K	5% 1/10W
Q409	8-729-422-27	TRANSISTOR 2SD601A-Q		R531	1-216-097-00	METAL GLAZE 100K	5% 1/10W
Q410	8-729-422-27	TRANSISTOR 2SD601A-Q		R532	1-216-097-00	METAL GLAZE 100K	5% 1/10W
<RESISTOR>				R533	1-216-097-00	METAL GLAZE 100K	5% 1/10W
R447	1-216-033-00	METAL GLAZE 220	5% 1/10W	R535	1-216-049-00	METAL GLAZE 1K	5% 1/10W
R453	1-216-033-00	METAL GLAZE 220	5% 1/10W	R536	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R464	1-216-081-00	METAL GLAZE 22K	5% 1/10W	R537	1-216-067-00	METAL GLAZE 5.6K	5% 1/10W
R465	1-216-081-00	METAL GLAZE 22K	5% 1/10W	R538	1-218-754-11	METAL CHIP 120K	0.50% 1/10W
R466	1-216-025-00	METAL GLAZE 100	5% 1/10W	R539	1-216-691-11	METAL CHIP 47K	0.50% 1/10W
R467	1-216-033-00	METAL GLAZE 220	5% 1/10W	R542	1-216-025-00	METAL GLAZE 100	5% 1/10W
R468	1-216-033-00	METAL GLAZE 220	5% 1/10W	R543	1-216-025-00	METAL GLAZE 100	5% 1/10W
R469	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W	R546	1-216-682-11	METAL CHIP 20K	0.50% 1/10W
R470	1-216-033-00	METAL GLAZE 220	5% 1/10W	R547	1-216-681-11	METAL CHIP 18K	0.50% 1/10W
R471	1-216-033-00	METAL GLAZE 220	5% 1/10W	<CONNECTOR>			
R472	1-216-686-11	METAL CHIP 30K	0.50% 1/10W	Y2-401	1-573-966-11	PIN, CONNECTOR (PC BOARD) 36P	
R473	1-216-295-00	METAL GLAZE 0	5% 1/10W	*****			
R474	1-216-295-00	METAL GLAZE 0	5% 1/10W				

X2

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
*A-1394-444-A X2 BOARD, COMPLETE *****							
<CAPACITOR>							
C2501	1-163-020-00	CERAMIC CHIP 0.0082MF	10% 50V	C2563	1-163-257-11	CERAMIC CHIP 180PF	5% 50V
C2502	1-163-020-00	CERAMIC CHIP 0.0082MF	10% 50V	C2564	1-126-301-11	ELECT 1MF	20% 50V
C2503	1-163-001-11	CERAMIC CHIP 220PF	10% 50V	C2565	1-126-163-11	ELECT 4.7MF	20% 50V
C2504	1-126-163-11	ELECT 4.7MF	20% 50V	C2566	1-126-163-11	ELECT 4.7MF	20% 50V
C2505	1-163-020-00	CERAMIC CHIP 0.0082MF	10% 50V	C2567	1-126-163-11	ELECT 4.7MF	20% 50V
C2506	1-163-020-00	CERAMIC CHIP 0.0082MF	10% 50V	C2568	1-163-263-11	CERAMIC CHIP 330PF	5% 50V
C2507	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	C2569	1-163-257-11	CERAMIC CHIP 180PF	5% 50V
C2508	1-163-020-00	CERAMIC CHIP 0.0082MF	10% 50V	C2570	1-124-234-00	ELECT 22MF	20% 16V
C2509	1-163-020-00	CERAMIC CHIP 0.0082MF	10% 50V	C2571	1-126-301-11	ELECT 1MF	20% 50V
C2510	1-163-989-11	CERAMIC CHIP 0.033MF	10% 25V	C2572	1-126-163-11	ELECT 4.7MF	20% 50V
C2511	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C2573	1-124-234-00	ELECT 22MF	20% 16V
C2512	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C2574	1-126-301-11	ELECT 1MF	20% 50V
C2513	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C2575	1-126-301-11	ELECT 1MF	20% 50V
C2514	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C2576	1-126-301-11	ELECT 1MF	20% 50V
C2515	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C2577	1-126-163-11	ELECT 4.7MF	20% 50V
C2516	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C2578	1-126-163-11	ELECT 4.7MF	20% 50V
C2517	1-126-157-11	ELECT 10MF	20% 16V	C2579	1-126-103-11	ELECT 470MF	20% 16V
C2518	1-126-163-11	ELECT 4.7MF	20% 50V	C2580	1-124-478-11	ELECT 100MF	20% 25V
C2519	1-126-301-11	ELECT 1MF	20% 50V	C2581	1-163-109-00	CERAMIC CHIP 47PF	5% 50V
C2520	1-126-163-11	ELECT 4.7MF	20% 50V	C2582	1-124-477-11	ELECT 47MF	20% 25V
C2521	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	C2583	1-126-163-11	ELECT 4.7MF	20% 50V
C2522	1-124-252-00	ELECT 0.33MF	20% 50V	C2584	1-163-109-00	CERAMIC CHIP 47PF	5% 50V
C2523	1-126-163-11	ELECT 4.7MF	20% 50V	C2585	1-126-163-11	ELECT 4.7MF	20% 50V
C2524	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C2586	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C2525	1-126-163-11	ELECT 4.7MF	20% 50V	C2587	1-126-163-11	ELECT 4.7MF	20% 50V
C2526	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C2588	1-126-163-11	ELECT 4.7MF	20% 50V
C2527	1-126-157-11	ELECT 10MF	20% 16V	C2589	1-126-163-11	ELECT 4.7MF	20% 50V
C2528	1-124-465-00	ELECT 0.47MF	20% 50V	C2590	1-126-163-11	ELECT 4.7MF	20% 50V
C2529	1-163-989-11	CERAMIC CHIP 0.033MF	10% 25V	C2591	1-124-478-11	ELECT 100MF	20% 25V
C2530	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V	<DIODE>			
C2531	1-126-301-11	ELECT 1MF	20% 50V	D2501	8-719-104-34	DIODE 1S2836	
C2532	1-126-301-11	ELECT 1MF	20% 50V	D2502	8-719-106-88	DIODE RD15M-B1	
C2533	1-124-261-00	ELECT 10MF	20% 50V	D2503	8-719-106-88	DIODE RD15M-B1	
C2534	1-163-257-11	CERAMIC CHIP 180PF	5% 50V	D2504	8-719-106-88	DIODE RD15M-B1	
C2535	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	<IC>			
C2536	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	IC2501	8-759-031-31	IC MC33174M	
C2537	1-126-163-11	ELECT 4.7MF	20% 50V	IC2502	8-752-050-75	IC CXA1373Q	
C2538	1-126-163-11	ELECT 4.7MF	20% 50V	IC2503	8-759-604-70	IC W51523AL	
C2539	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	IC2504	8-759-031-31	IC MC33174M	
C2540	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	IC2505	8-759-604-70	IC W51523AL	
C2541	1-163-139-00	CERAMIC CHIP 820PF	5% 50V	IC2506	8-759-106-22	IC UPD4052BG	
C2542	1-124-478-11	ELECT 100MF	20% 25V	IC2507	8-759-038-68	IC MC33172ML	
C2543	1-124-252-00	ELECT 0.33MF	20% 50V	IC2508	8-759-038-68	IC MC33172ML	
C2544	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V	<JACK>			
C2545	1-126-301-11	ELECT 1MF	20% 50V	J2501	*1-573-966-11	PIN, CONNECTOR (PC BOARD) 36P	
C2546	1-126-163-11	ELECT 4.7MF	20% 50V	<TRANSISTOR>			
C2547	1-126-163-11	ELECT 4.7MF	20% 25V	Q2501	8-729-230-49	TRANSISTOR 2SC2712-YG	
C2548	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	<RESISTOR>			
C2549	1-126-163-11	ELECT 4.7MF	20% 50V	R2501	1-216-079-00	METAL GLAZE 18K 5%	1/10W
C2550	1-126-163-11	ELECT 4.7MF	20% 25V	R2502	1-216-097-00	METAL GLAZE 100K 5%	1/10W
C2551	1-126-301-11	ELECT 1MF	20% 50V	R2503	1-216-091-00	METAL GLAZE 56K 5%	1/10W
C2552	1-126-163-11	ELECT 4.7MF	20% 50V	R2504	1-216-109-00	METAL GLAZE 330K 5%	1/10W
C2553	1-126-301-11	ELECT 1MF	20% 50V	R2505	1-216-109-00	METAL GLAZE 330K 5%	1/10W
C2554	1-124-234-00	ELECT 22MF	20% 16V				
C2555	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V				
C2556	1-124-257-00	ELECT 2.2MF	20% 50V				
C2557	1-124-234-00	ELECT 22MF	20% 16V				
C2558	1-126-301-11	ELECT 1MF	20% 50V				
C2559	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V				
C2560	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V				
C2561	1-126-301-11	ELECT 1MF	20% 50V				
C2562	1-163-263-11	CERAMIC CHIP 330PF	5% 50V				

X2 G

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R2506	1-216-101-00	METAL GLAZE	150K 5% 1/10W	R2572	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R2507	1-216-091-00	METAL GLAZE	56K 5% 1/10W	R2573	1-216-082-00	METAL GLAZE	24K 5% 1/10W
R2508	1-216-079-00	METAL GLAZE	18K 5% 1/10W	R2574	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R2509	1-216-130-11	METAL GLAZE	2.4M 5% 1/10W	R2575	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R2510	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R2576	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R2511	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R2577	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R2512	1-216-103-00	METAL GLAZE	180K 5% 1/10W	R2578	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R2513	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R2579	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R2514	1-216-103-00	METAL GLAZE	180K 5% 1/10W	R2580	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R2515	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R2581	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R2516	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R2582	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R2517	1-216-133-00	METAL GLAZE	3.3M 5% 1/10W	R2583	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R2518	1-216-072-00	METAL GLAZE	9.1K 5% 1/10W	R2584	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R2519	1-216-133-00	METAL GLAZE	3.3M 5% 1/10W	R2585	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R2520	1-216-133-00	METAL GLAZE	3.3M 5% 1/10W	R2586	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R2521	1-216-133-00	METAL GLAZE	3.3M 5% 1/10W	R2587	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R2522	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R2588	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R2523	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R2589	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R2524	1-216-129-00	METAL GLAZE	2.2M 5% 1/10W	R2590	1-216-079-00	METAL GLAZE	18K 5% 1/10W
R2526	1-216-133-00	METAL GLAZE	3.3M 5% 1/10W	R2591	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R2527	1-216-133-00	METAL GLAZE	3.3M 5% 1/10W	R2592	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R2528	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R2593	1-216-079-00	METAL GLAZE	18K 5% 1/10W
R2529	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R2594	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R2530	1-216-133-00	METAL GLAZE	3.3M 5% 1/10W	R2595	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R2531	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R2596	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R2532	1-216-133-00	METAL GLAZE	3.3M 5% 1/10W	R2597	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R2533	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R2598	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R2534	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R2599	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R2535	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R2600	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R2536	1-216-129-00	METAL GLAZE	2.2M 5% 1/10W	R2601	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R2537	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R2602	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R2539	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R2604	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R2540	1-216-075-00	METAL GLAZE	12K 5% 1/10W	R2605	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R2541	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	R2606	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R2542	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R2610	1-216-125-00	METAL GLAZE	1.5M 5% 1/10W
R2543	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R2611	1-216-125-00	METAL GLAZE	1.5M 5% 1/10W
R2544	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R2612	1-216-125-00	METAL GLAZE	1.5M 5% 1/10W
R2545	1-216-048-00	METAL GLAZE	910 5% 1/10W	R2613	1-216-125-00	METAL GLAZE	1.5M 5% 1/10W
R2546	1-216-133-00	METAL GLAZE	3.3M 5% 1/10W	R2614	1-216-125-00	METAL GLAZE	1.5M 5% 1/10W
R2547	1-216-133-00	METAL GLAZE	3.3M 5% 1/10W	R2615	1-216-125-00	METAL GLAZE	1.5M 5% 1/10W
R2548	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R2616	1-216-125-00	METAL GLAZE	1.5M 5% 1/10W
R2549	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R2617	1-216-125-00	METAL GLAZE	1.5M 5% 1/10W
R2550	1-216-088-00	METAL GLAZE	43K 5% 1/10W	R2618	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R2551	1-216-088-00	METAL GLAZE	43K 5% 1/10W	R2619	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R2552	1-216-049-00	METAL GLAZE	1K 5% 1/10W	*****			
R2553	1-216-078-00	METAL GLAZE	16K 5% 1/10W	*A-1316-149-A	G BOARD, COMPLETE	*****	
R2554	1-216-082-00	METAL GLAZE	24K 5% 1/10W	1-533-223-11	CLIP, FUSE		
R2555	1-216-089-00	METAL GLAZE	47K 5% 1/10W	3-701-754-00	PLATE, INSULATING		
R2556	1-216-049-00	METAL GLAZE	1K 5% 1/10W	4-382-854-11	SCREW (M3X10), P, SW (+)		
R2557	1-216-085-00	METAL GLAZE	33K 5% 1/10W	<CAPACITOR>			
R2558	1-216-088-00	METAL GLAZE	43K 5% 1/10W	C601	1-161-830-00	CERAMIC	4700PF 10% 500V
R2559	1-216-091-00	METAL GLAZE	56K 5% 1/10W	C602	1-130-317-00	FILM	0.068MF 5% 100V
R2560	1-216-103-00	METAL GLAZE	180K 5% 1/10W	C603	1-124-634-11	ELECT	1MF 20% 250V
R2561	1-216-097-00	METAL GLAZE	100K 5% 1/10W	C605	1-164-143-11	CERAMIC	0.001MF 10% 1KV
R2562	1-216-089-00	METAL GLAZE	47K 5% 1/10W	C606	1-124-563-11	ELECT	2200MF 20% 25V
R2563	1-216-088-00	METAL GLAZE	43K 5% 1/10W	C607	1-124-563-11	ELECT	2200MF 20% 25V
R2564	1-216-088-00	METAL GLAZE	43K 5% 1/10W	C608	1-128-484-11	ELECT	100MF 20% 200V
R2565	1-216-103-00	METAL GLAZE	180K 5% 1/10W	C609	1-137-141-11	FILM	0.082MF 3% 600V
R2566	1-216-073-00	METAL GLAZE	10K 5% 1/10W	C612	1-124-962-11	ELECT	2200MF 20% 25V
R2567	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R2568	1-216-049-00	METAL GLAZE	1K 5% 1/10W				
R2569	1-216-097-00	METAL GLAZE	100K 5% 1/10W				
R2570	1-216-091-00	METAL GLAZE	56K 5% 1/10W				
R2571	1-216-078-00	METAL GLAZE	16K 5% 1/10W				

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

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

KP-41EXR96
RM-Y112A

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C614	1-126-326-51	ELECT 10MF	20% 200V	D631	8-719-911-19	DIODE 1SS119	
C615	1-124-798-11	ELECT 1MF	20% 160V	D632	8-719-511-40	DIODE S1VB40	
C616	1-124-557-11	ELECT 1000MF	20% 25V	D633 Δ 8-719-505-60	DIODE S5VB60		
C617	1-164-143-11	CERAMIC 0.001MF	10% 1KV	D634	8-719-911-19	DIODE 1SS119	
C618	1-136-853-11	FILM 0.56MF	5% 200V	D636	8-719-109-85	DIODE RD5.1ES-B2	
C619	1-164-735-11	CAP, CERAMIC 1500PF		D638	8-719-911-19	DIODE 1SS119	
C620	1-136-721-21	FILM 1.5MF	10% 400V	D640 Δ 8-719-510-09	DIODE D10SC6M		
C621	1-164-143-11	CERAMIC 0.001MF	10% 1KV	D650	8-719-160-81	DIODE RD27F-B2	
C622	1-136-853-11	FILM 0.56MF	5% 200V				
C623	1-137-087-11	FILM 0.068MF	3% 0				
C624	1-126-771-11	ELECT 100MF	20% 160V				
C625	1-126-183-11	ELECT 1000MF	20% 16V				
C626	1-126-373-11	ELECT 470MF	20% 10V				
C628	1-161-830-00	CERAMIC 4700PF	10% 500V				
C629	1-124-607-11	ELECT 2200MF	20% 50V				
C631	1-126-803-11	ELECT 47MF	20% 50V				
C632	1-124-903-11	ELECT 1MF	20% 50V				
C633	1-130-483-00	MYLAR 0.01MF	5% 50V				
C634	1-126-803-11	ELECT 47MF	20% 16V				
C637 Δ 1-136-311-51	FILM 0.47MF	20%	125V				
C638 Δ 1-161-743-12	CERAMIC 0.0047MF	20%	400V				
C639 Δ 1-125-692-11	ELECT (BLOCK) 820MF	20%	200V				
C640 Δ 1-136-311-51	FILM 0.47MF	20%	125V				
C641	1-126-101-11	ELECT 100MF	20% 16V				
C642 Δ 1-161-743-12	CERAMIC 0.0047MF	20%	400V				
C644	1-126-104-11	ELECT 470MF	20% 35V				
C646	1-124-907-11	ELECT 10MF	20% 50V				
C647 Δ 1-164-486-51	CERAMIC 0.0033MF	20%	400V				
C648 Δ 1-125-692-11	ELECT (BLOCK) 820MF	20%	200V				
C649 Δ 1-164-486-51	CERAMIC 0.0033MF	20%	400V				
C650 Δ 1-161-743-12	CERAMIC 0.0047MF	20%	400V				
C660	1-102-125-00	CERAMIC 0.0047MF	10% 50V				
C661	1-102-125-00	CERAMIC 0.0047MF	10% 50V				
C662	1-124-910-11	ELECT 47MF	20% 35V				
C663	1-126-017-11	ELECT 6800MF	20% 16V				
C664	1-126-017-11	ELECT 6800MF	20% 16V				
C670	1-102-074-00	CERAMIC 0.001MF	10% 50V				
<DIODE>							
D602	8-719-979-58	DIODE EGP10D					
D603	8-719-500-67	DIODE D5KC40H					
D604	8-719-510-09	DIODE D10SC6M					
D605	8-719-988-31	DIODE D10SC6MR					
D607	8-719-025-81	DIODE S3V10SB					
D608	8-719-109-85	DIODE RD5.1ES-B2					
D609	8-719-109-84	DIODE RD5.1ES-B1					
D610	8-719-979-58	DIODE EGP10D					
D611	8-719-979-58	DIODE EGP10D					
D613	8-719-303-57	DIODE RU2AM					
D614	8-719-979-58	DIODE EGP10D					
D615	8-719-975-76	DIODE SB140					
D616	8-719-025-81	DIODE S3V10SB					
D617	8-719-110-02	DIODE RD7.5ES-B1					
D618	8-719-911-19	DIODE 1SS119					
D619	8-719-975-76	DIODE SB140					
D620 Δ 8-719-988-31	DIODE D10SC6MR						
D621	8-719-908-03	DIODE GP08D					
D622	8-719-908-03	DIODE GP08D					
D623	8-719-110-63	DIODE RD24ES-B3					
D624	8-719-109-89	DIODE RD5.6ES-B2					
D626	8-719-908-03	DIODE GP08D					
D628	8-719-110-49	DIODE RD18ES-B2					
D629	8-719-911-19	DIODE 1SS119					
<FUSE>							
F601 Δ 1-532-748-11	FUSE, GLASS TUBE 6.3A/125V						
<FERRITE BEAD>							
FB602	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH					
FB604	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH					
FB606	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH					
FB607	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH					
FB608	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH					
FB612	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH					
FB622	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH					
FB630	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH					
FB631	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH					
<CONNECTOR>							
G1	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P					
G2	*1-564-512-11	PLUG, CONNECTOR 9P					
G3	*1-564-507-11	PLUG, CONNECTOR 4P					
G4	*1-564-511-11	PLUG, CONNECTOR 8P					
G5	*1-564-508-11	PLUG, CONNECTOR 5P					
G7	*1-564-507-11	PLUG, CONNECTOR 4P					
G8	*1-580-843-11	PIN, CONNECTOR (POWER)					
G9	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P					
G10	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P					
G11	*1-564-511-31	PLUG, CONNECTOR 8P					
G12	*1-564-505-11	PLUG, CONNECTOR 2P					
<IC>							
IC601A Δ 8-749-921-89	IC SELL5N						
IC602	8-759-231-58	IC TA7812S					
<COIL>							
L602	1-459-862-11	COIL, CHOKE 90UH					
L604	1-408-404-00	INDUCTOR 3.9UH					
L605	1-412-526-11	INDUCTOR 12UH					
L607	1-408-404-00	INDUCTOR 3.9UH					
L611	1-412-546-41	INDUCTOR 560UH					
L612	1-412-540-31	INDUCTOR 180UH					
L613	1-412-522-41	INDUCTOR 5.6UH					
<TRANSISTOR>							
Q603	8-729-011-15	TRANSISTOR 2SC4582NP					
Q604	8-729-119-80	TRANSISTOR 2SC2688-LK					
Q607	8-729-119-78	TRANSISTOR 2SC2785-HFE					
Q608	8-729-326-11	TRANSISTOR 2SC2611					
Q609	8-729-119-76	TRANSISTOR 2SA1175-HFE					
Q610	8-729-019-58	TRANSISTOR 2SA1208T-TP					
Q611	8-729-019-58	TRANSISTOR 2SA1208T-TP					

The components identified by **■** in this manual 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.

Les composants identifiés par une trame et une marque **▲** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

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
Q612	8-729-386-12	TRANSISTOR 2SB861-C		R666	1-249-377-11	CARBON 0.47 5% 1/4W	F
Q613	8-729-209-15	TRANSISTOR 2SD2012		R667	▲ 1-202-888-91	SOLID 2.2M 20% 1/2W	
Q614	8-729-011-15	TRANSISTOR 2SC4582NP		R668	▲ 1-215-904-91	METAL OXIDE 100K 5% 2W	F
Q615	8-729-019-58	TRANSISTOR 2SA1208T-TP		R669	1-249-377-11	CARBON 0.47 5% 1/4W	F
Q616	8-729-208-39	TRANSISTOR 2SA1306A-Y		R675	1-249-377-11	CARBON 0.47 5% 1/4W	F
Q618	8-729-119-76	TRANSISTOR 2SA1175-HFE		R687	1-249-417-11	CARBON 1K 5% 1/4W	F
Q620	8-729-119-78	TRANSISTOR 2SC2785-HFE		R689	1-247-742-11	CARBON 180 5% 1/2W	F
Q621	8-729-119-78	TRANSISTOR 2SC2785-HFE		R691	1-249-421-11	CARBON 2.2K 5% 1/4W	
Q623	8-729-119-76	TRANSISTOR 2SA1175-HFE		R694	1-249-421-11	CARBON 2.2K 5% 1/4W	
Q629	8-729-378-84	TRANSISTOR 2SD788-5		R697	1-249-382-11	CARBON 1.2 5% 1/4W	F
Q630	8-729-255-12	TRANSISTOR 2SC2551-0		R698	1-216-386-11	METAL OXIDE 0.56 5% 3W	F
<RESISTOR>				<RELAY>			
R604	1-202-933-11	FUSIBLE 0.1 10%	1/2W F	RY601A	1-515-805-11	RELAY, POWER	
R605	1-249-428-11	CARBON 8.2K 5%	1/4W	RY602A	1-515-805-11	RELAY, POWER	
R606	1-214-919-00	METAL 180K 1%	1/2W	<TRANSFORMER>			
R609	1-249-434-11	CARBON 27K 5%	1/4W F	T601	▲ 1-450-791-12	TRANSFORMER, POWER ISOLATION	
R610	1-215-469-00	METAL 100K 1%	1/4W	T603	▲ 1-424-020-11	PRT	
R611	1-249-421-11	CARBON 2.2K 5%	1/4W F	T604	▲ 1-450-149-11	TRANSFORMER, HEATER	
R612	1-202-883-11	SOLID 680K 20%	1/2W	T605	▲ 1-424-023-12	TRANSFORMER, LINE FILTER	
R613	1-216-386-11	METAL OXIDE 0.56 5%	3W F	T606	▲ 1-421-372-21	TRANSFORMER, FERRITE (LFT)	
R614	1-249-418-11	CARBON 1.2K 5%	1/4W	T608	▲ 1-423-665-11	TRANSFORMER, POWER	
R615	1-215-438-00	METAL 5.1K 1%	1/4W	<VARISTOR>			
R616	1-215-436-00	METAL 4.3K 1%	1/4W	VDR601A	1-809-786-11	VARISTOR	
R617	1-216-356-00	METAL OXIDE 3.9 5%	1W F	*****			
R618	1-249-418-11	CARBON 1.2K 5%	1/4W	*A-1331-259-A CR BOARD, COMPLETE			
R619	1-216-444-11	METAL OXIDE 82K 5%	1W F	*****			
R620	1-249-418-11	CARBON 1.2K 5%	1/4W F	<CAPACITOR>			
R621	1-247-691-11	CARBON 18 5%	1/4W F	C701	1-162-115-00	CERAMIC 330PF 10% 2KV	
R622	1-249-424-11	CARBON 3.9K 5%	1/4W F	C702	1-123-948-00	ELECT 22MF 20% 250V	
R623	1-249-417-11	CARBON 1K 5%	1/4W	C703	1-102-050-00	CERAMIC 0.01MF 500V	
R624	1-214-780-00	METAL 130K 1%	1/4W	C704	1-162-115-00	CERAMIC 330PF 10% 2KV	
R625	1-216-386-11	METAL OXIDE 0.56 5%	3W F	C705	1-130-479-00	MYLAR 0.0047MF 5% 50V	
R626	1-216-356-00	METAL OXIDE 3.9 5%	1W F	C706	1-101-006-00	CERAMIC 0.047MF 50V	
R627	1-202-883-11	SOLID 680K 20%	1/2W	C707	1-101-006-00	CERAMIC 0.047MF 50V	
R628	1-249-410-11	CARBON 270 5%	1/4W F	C709	1-124-120-11	ELECT 220MF 20% 16V	
R629	1-207-620-00	WIREWOUND 1 10%	3W F	C710	1-124-120-11	ELECT 220MF 20% 16V	
R631	1-249-417-11	CARBON 1K 5%	1/4W F	C711	1-102-114-00	CERAMIC 470PF 10% 50V	
R632	1-214-913-00	METAL 100K 1%	1/2W	<CONNECTOR>			
R633	1-249-429-11	CARBON 10K 5%	1/4W	CR1	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P	
R634	1-249-441-11	CARBON 100K 5%	1/4W	CR3	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
R635	1-215-897-11	METAL OXIDE 6.8K 5%	2W F	CR4	*1-564-511-31	PLUG, CONNECTOR 8P	
R636	1-260-065-11	CARBON 1.2 5%	1/2W	CR15	*1-564-508-11	PLUG, CONNECTOR 5P	
R638	1-249-405-11	CARBON 100 5%	1/4W F	<PICTURE TUBE SOCKET>			
R639	1-249-405-11	CARBON 100 5%	1/4W F	CRT701A	1-251-026-11	SOCKET, PICTURE TUBE	
R640	1-249-421-11	CARBON 2.2K 5%	1/4W F	<DIODE>			
R641	1-249-429-11	CARBON 10K 5%	1/4W	D701	8-719-911-19	DIODE 1SS119	
R642	1-215-421-00	METAL 1K 1%	1/4W	D702	8-719-911-19	DIODE 1SS119	
R643	1-260-123-11	CARBON 100K 5%	1/2W	D703	8-719-911-19	DIODE 1SS119	
R644	1-249-415-11	CARBON 680 5%	1/4W				
R645	1-249-417-11	CARBON 1K 5%	1/4W				
R649	1-249-424-11	CARBON 3.9K 5%	1/4W				
R650	1-249-377-11	CARBON 0.47 5%	1/4W F				
R651	1-215-429-00	METAL 2.2K 1%	1/4W				
■ R652	▲ 1-215-429-00	METAL 2.2K 1%	1/4W				
R654	1-215-429-00	METAL 2.2K 1%	1/4W				
R655	1-249-426-11	CARBON 5.6K 5%	1/4W				
R656	1-215-454-00	METAL 24K 1%	1/4W				
R657	1-216-386-11	METAL OXIDE 0.56 5%	3W F				
R660	1-249-418-11	CARBON 1.2K 5%	1/4W				
R661	▲ 1-202-884-91	SOLID 820K 20%	1/2W				
R662	▲ 1-205-900-11	WIREWOUND 1.2 5%	15W				
R663	▲ 1-215-904-91	METAL OXIDE 100K 5%	2W F				

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

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KP-41EXR96
RM-Y112A

CR CG

REF. NO.	PART NO.	DESCRIPTION	REMARK
D704	8-719-911-19	DIODE 1SS119	
D705	8-719-911-19	DIODE 1SS119	
D706	8-719-911-19	DIODE 1SS119	
D707	8-719-110-36	DIODE RD13BS-B2	
<COIL>			
L701	1-408-429-00	INDUCTOR 470UH	
L702	1-408-159-00	COIL, SPOOK CHOKE 3.3UH	
L703	1-408-159-00	COIL, SPOOK CHOKE 3.3UH	
L704	1-408-413-00	INDUCTOR 22UH	
<NEON LAMP>			
NL701	1-519-108-99	LAMP, NEON	
NL702	1-519-108-99	LAMP, NEON	
<TRANSISTOR>			
Q701	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q702	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q703	8-729-119-80	TRANSISTOR 2SC2688-LK	
	4-373-933-01	SHEET (TRANSISTOR), BN; Q703	
	4-382-854-11	SCREW (M3X10), P, SW (+); Q703	
Q704	8-729-255-12	TRANSISTOR 2SC2551-0	
Q705	8-729-200-17	TRANSISTOR 2SA1091-0	
Q706	8-729-200-17	TRANSISTOR 2SA1091-0	
<RESISTOR>			
R701	1-202-847-00	SOLID 560K 20% 1/2W	
R702	1-202-814-11	SOLID 33K 20% 1/2W	
R703	1-202-818-00	SOLID 1K 20% 1/2W	
R704	1-202-842-11	SOLID 220K 20% 1/2W	
R705	1-202-828-11	SOLID 6.8K 20% 1/2W	
R706	1-202-561-00	SOLID 330 20% 1/2W	
R707	1-216-510-11	METAL OXIDE 8.2K 5% 5W F	
R708	1-249-405-11	CARBON 100 5% 1/4W F	
R709	1-249-405-11	CARBON 100 5% 1/4W F	
R710	1-215-927-00	METAL OXIDE 47K 5% 3W F	
R711	1-249-405-11	CARBON 100 5% 1/4W F	
R712	1-249-421-11	CARBON 2.2K 5% 1/4W F	
R714	1-249-401-11	CARBON 47 5% 1/4W	
R716	1-249-405-11	CARBON 100 5% 1/4W	
R717	1-249-403-11	CARBON 68 5% 1/4W	
R718	1-249-412-11	CARBON 390 5% 1/4W	
R719	1-249-410-11	CARBON 270 5% 1/4W	
R720	1-249-405-11	CARBON 100 5% 1/4W	
R721	1-249-409-11	CARBON 220 5% 1/4W	
R722	1-215-423-00	METAL 1.2K 1% 1/4W	
R723	1-249-410-11	CARBON 270 5% 1/4W	
R724	1-215-429-00	METAL 2.2K 1% 1/4W	
<SPARK GAP>			
SG701	1-519-422-11	GAP, SPARK	
SG702	1-519-422-11	GAP, SPARK	

*A-1331-260-A	CG BOARD, COMPLETE	*****	
	4-373-933-01	SHEET (TRANSISTOR), BN	
	4-382-854-11	SCREW (M3X10), P, SW (+)	

REF. NO.	PART NO.	DESCRIPTION	REMARK
<CAPACITOR>			
C731	1-162-115-00	CERAMIC 330PF 10% 2KV	
C732	1-123-948-00	ELECT 22MF 20% 250V	
C733	1-102-050-00	CERAMIC 0.01MF 500V	
C734	1-162-115-00	CERAMIC 330PF 10% 2KV	
C735	1-130-479-00	MYLAR 0.0047MF 5% 50V	
C736	1-101-006-00	CERAMIC 0.047MF 50V	
C737	1-101-006-00	CERAMIC 0.047MF 50V	
C739	1-124-120-11	ELECT 220MF 20% 16V	
C740	1-124-120-11	ELECT 220MF 20% 16V	
C741	1-102-114-00	CERAMIC 470PF 10% 50V	
<CONNECTOR>			
CG1	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P	
CG3	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
CG16	*1-564-508-11	PLUG, CONNECTOR 5P	
<PICTURE TUBE SOCKET>			
CRT731A	1-251-026-11	SOCKET, PICTURE TUBE	
<DIODE>			
D731	8-719-911-19	DIODE 1SS119	
D732	8-719-911-19	DIODE 1SS119	
D733	8-719-911-19	DIODE 1SS119	
D734	8-719-911-19	DIODE 1SS119	
D735	8-719-911-19	DIODE 1SS119	
D736	8-719-911-19	DIODE 1SS119	
D737	8-719-911-19	DIODE 1SS119	
<COIL>			
L731	1-408-429-00	INDUCTOR 470UH	
L732	1-408-159-00	COIL, SPOOK CHOKE 3.3UH	
L733	1-408-159-00	COIL, SPOOK CHOKE 3.3UH	
L734	1-408-413-00	INDUCTOR 22UH	
<NEON LAMP>			
NL731	1-519-108-99	LAMP, NEON	
NL732	1-519-108-99	LAMP, NEON	
<TRANSISTOR>			
Q731	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q732	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q733	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q734	8-729-255-12	TRANSISTOR 2SC2551-0	
Q735	8-729-200-17	TRANSISTOR 2SA1091-0	
Q736	8-729-200-17	TRANSISTOR 2SA1091-0	
<RESISTOR>			
R731	1-202-847-00	SOLID 560K 20% 1/2W	
R732	1-202-814-11	SOLID 33K 20% 1/2W	
R733	1-202-818-00	SOLID 1K 20% 1/2W	
R734	1-202-842-11	SOLID 220K 20% 1/2W	
R735	1-202-828-11	SOLID 6.8K 20% 1/2W	
R736	1-202-561-00	SOLID 330 20% 1/2W	
R737	1-216-510-11	METAL OXIDE 8.2K 5% 5W F	
R738	1-249-405-11	CARBON 100 5% 1/4W F	

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

CG CB V

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R739	1-249-405-11	CARBON	100 5% 1/4W F				
R740	1-215-927-00	METAL OXIDE	47K 5% 3W F				
R741	1-249-405-11	CARBON	100 5% 1/4W F				
R742	1-249-421-11	CARBON	2.2K 5% 1/4W F				
R744	1-249-401-11	CARBON	47 5% 1/4W				
R745	1-215-455-00	METAL	27K 1% 1/4W				
R746	1-249-405-11	CARBON	100 5% 1/4W				
R747	1-249-403-11	CARBON	68 5% 1/4W				
R748	1-249-412-11	CARBON	390 5% 1/4W				
R749	1-249-410-11	CARBON	270 5% 1/4W				
R750	1-249-405-11	CARBON	100 5% 1/4W				
R751	1-249-409-11	CARBON	220 5% 1/4W				
R752	1-215-423-00	METAL	1.2K 1% 1/4W				
R754	1-215-429-00	METAL	2.2K 1% 1/4W				
<SPARK GAP>							
SG731	1-519-422-11	GAP, SPARK					
SG732	1-519-422-11	GAP, SPARK					

*A-1331-261-A	CB BOARD, COMPLETE						

4-373-933-01	SHEET (TRANSISTOR), BN						
4-382-854-11	SCRWB (M3X10), P, SW (+)						
<CAPACITOR>							
C761	1-162-115-00	CERAMIC	330PF 10% 2KV				
C762	1-123-948-00	ELECT	22MF 20% 250V				
C763	1-102-050-00	CERAMIC	0.01MF 500V				
C764	1-162-115-00	CERAMIC	330PF 10% 2KV				
C765	1-130-479-00	MYLAR	0.0047MF 5% 50V				
C766	1-101-006-00	CERAMIC	0.047MF 50V				
C767	1-101-006-00	CERAMIC	0.047MF 50V				
C769	1-124-120-11	ELECT	220MF 20% 16V				
C770	1-124-120-11	ELECT	220MF 20% 16V				
C771	1-102-114-00	CERAMIC	470PF 10% 50V				
<CONNECTOR>							
CB1	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P					
CB3	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P					
CB4	*1-564-511-11	PLUG, CONNECTOR 8P					
CB5	*1-564-511-21	PLUG, CONNECTOR 8P					
CB17	*1-564-508-11	PLUG, CONNECTOR 5P					
<PICTURE TUBE SOCKET>							
CRT761A	1-251-026-11	SOCKET, PICTURE TUBE					
<DIODE>							
D761	8-719-911-19	DIODE ISS119					
D762	8-719-911-19	DIODE ISS119					
D763	8-719-911-19	DIODE ISS119					
D764	8-719-911-19	DIODE ISS119					
D765	8-719-911-19	DIODE ISS119					
D766	8-719-911-19	DIODE ISS119					
D768	8-719-911-19	DIODE ISS119					
D769	8-719-109-81	DIODE RD4.7ES-B2					
<COIL>							
L761	1-408-429-00	INDUCTOR	470UH				
L762	1-408-159-00	COIL, SPOOK	CHOKE 3.3UH				
L763	1-408-159-00	COIL, SPOOK	CHOKE 3.3UH				
L764	1-408-413-00	INDUCTOR	22UH				
<NEON LAMP>							
NL761	1-519-108-99	LAMP, NEON					
NL762	1-519-108-99	LAMP, NEON					
<TRANSISTOR>							
Q761	8-729-119-78	TRANSISTOR	2SC2785-HFE				
Q762	8-729-119-78	TRANSISTOR	2SC2785-HFE				
Q763	8-729-119-80	TRANSISTOR	2SC2688-LK				
Q764	8-729-255-12	TRANSISTOR	2SC2551-0				
Q765	8-729-200-17	TRANSISTOR	2SA1091-0				
Q766	8-729-200-17	TRANSISTOR	2SA1091-0				
<RESISTOR>							
R761	1-202-847-00	SOLID	560K 20% 1/2W				
R762	1-202-814-11	SOLID	33K 20% 1/2W				
R763	1-202-818-00	SOLID	1K 20% 1/2W				
R764	1-202-842-11	SOLID	220K 20% 1/2W				
R765	1-202-828-11	SOLID	6.8K 20% 1/2W				
R766	1-202-561-00	SOLID	330 20% 1/2W				
R767	1-216-510-11	METAL OXIDE	8.2K 5% 5W F				
R768	1-249-405-11	CARBON	100 5% 1/4W F				
R769	1-249-405-11	CARBON	100 5% 1/4W F				
R770	1-215-927-00	METAL OXIDE	47K 5% 3W F				
R771	1-249-405-11	CARBON	100 5% 1/4W F				
R772	1-249-421-11	CARBON	2.2K 5% 1/4W F				
R773	1-249-413-11	CARBON	470 5% 1/4W				
R774	1-249-401-11	CARBON	47 5% 1/4W				
R776	1-249-405-11	CARBON	100 5% 1/4W				
R777	1-249-403-11	CARBON	68 5% 1/4W				
R778	1-249-412-11	CARBON	390 5% 1/4W				
R779	1-249-415-11	CARBON	680 5% 1/4W				
R780	1-249-405-11	CARBON	100 5% 1/4W				
R781	1-249-409-11	CARBON	220 5% 1/4W				
R782	1-215-423-00	METAL	1.2K 1% 1/4W				
R783	1-215-433-00	METAL	3.3K 1% 1/4W				
R784	1-215-429-00	METAL	2.2K 1% 1/4W				
R785	1-215-418-00	METAL	750 1% 1/4W				
<SPARK GAP>							
SG761	1-519-422-11	GAP, SPARK					
SG762	1-519-422-11	GAP, SPARK					

*A-1342-214-A	V BOARD, COMPLETE						

*4-395-527-01	HOLDER (B), TR						
<CAPACITOR>							
C1501	1-102-129-00	CERAMIC	0.01MF 10% 50V				
C1502	1-126-101-11	ELECT	100MF 20% 16V				
C1504	1-106-383-00	MYLAR	0.047MF 200V				
C1505	1-124-907-11	ELECT	10MF 20% 50V				
C1506	1-106-359-00	MYLAR	0.0047MF 10% 200V				



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C1507	1-106-367-00	MYLAR 0.01MF	10% 100V	Q1554	8-729-202-02	TRANSISTOR 2SB1015-Y	
C1508	1-162-318-11	CERAMIC 0.001MF	10% 500V	Q1555	8-729-231-60	TRANSISTOR 2SD1406-YGR	
C1509	1-106-367-00	MYLAR 0.01MF	10% 100V	Q1556	8-729-202-02	TRANSISTOR 2SB1015-Y	
C1510	1-126-355-11	ELECT 33MF	20% 160V	<RESISTOR>			
C1511	1-124-668-11	ELECT 2.2MF	20% 200V	R1501	1-249-451-11	CARBON 2.2 5%	1/4W F
C1512	1-106-391-12	MYLAR 0.1MF	10% 200V	R1502	1-249-414-11	CARBON 560 5%	1/4W F
C1513	1-162-318-11	CERAMIC 0.001MF	10% 500V	R1503	1-247-734-11	CARBON 39 5%	1/2W F
C1514	1-102-951-00	CERAMIC 15PF	5% 50V	R1504	1-249-384-11	CARBON 1.8 5%	1/4W F
C1515	1-102-959-00	CERAMIC 22PF	5% 50V	R1505	1-249-405-11	CARBON 100 5%	1/4W
C1516	1-102-963-00	CERAMIC 33PF	5% 50V	R1506	1-249-419-11	CARBON 1.5K 5%	1/4W
C1517	1-123-875-11	ELECT 10MF	20% 50V	R1507	1-249-412-11	CARBON 390 5%	1/4W
C1518	1-102-074-00	CERAMIC 0.001MF	10% 50V	R1508	1-249-436-11	CARBON 39K 5%	1/4W
C1519	1-106-359-00	MYLAR 0.0047MF	10% 200V	R1509	1-249-421-11	CARBON 2.2K 5%	1/4W
C1520	1-126-803-11	ELECT 47MF	20% 16V	R1510	1-249-436-11	CARBON 39K 5%	1/4W
C1521	1-124-907-11	ELECT 10MF	20% 50V	R1511	1-249-418-11	CARBON 1.2K 5%	1/4W
C1534	1-101-003-00	CERAMIC 0.0047MF	50V	R1512	1-249-441-11	CARBON 100K 5%	1/4W
C1551	1-124-122-11	ELECT 100MF	20% 50V	R1513	1-249-432-11	CARBON 18K 5%	1/4W
C1552	1-124-122-11	ELECT 100MF	20% 50V	R1514	1-249-405-11	CARBON 100 5%	1/4W
C1553	1-102-824-00	CERAMIC 470PF	5% 50V	R1515	1-249-435-11	CARBON 33K 5%	1/4W
C1554	1-102-824-00	CERAMIC 470PF	5% 50V	R1517	1-247-713-11	CARBON 1K 5%	1/4W F
C1555	1-130-483-00	MYLAR 0.01MF	5% 50V	R1519	1-215-916-00	METAL OXIDE 680 5%	3W F
C1556	1-130-483-00	MYLAR 0.01MF	5% 50V	R1520	1-249-432-11	CARBON 18K 5%	1/4W
C1557	1-102-824-00	CERAMIC 470PF	5% 50V	R1521	1-249-414-11	CARBON 560 5%	1/4W
C1558	1-102-824-00	CERAMIC 470PF	5% 50V	R1522	1-249-384-11	CARBON 1.8 5%	1/4W F
C1559	1-102-824-00	CERAMIC 470PF	5% 50V	R1523	1-249-400-11	CARBON 39 5%	1/4W F
C1560	1-102-824-00	CERAMIC 470PF	5% 50V	R1524	1-249-418-11	CARBON 1.2K 5%	1/4W
C1561	1-130-483-00	MYLAR 0.01MF	5% 50V	R1525	1-249-421-11	CARBON 2.2K 5%	1/4W
C1562	1-130-483-00	MYLAR 0.01MF	5% 50V	R1526	1-249-426-11	CARBON 5.6K 5%	1/4W
C1563	1-130-483-00	MYLAR 0.01MF	5% 50V	R1527	1-249-414-11	CARBON 560 5%	1/4W
<DIODE>				R1528	1-249-429-11	CARBON 10K 5%	1/4W
D1501	8-719-911-19	DIODE 1SS119		R1529	1-249-414-11	CARBON 560 5%	1/4W
D1502	8-719-911-19	DIODE 1SS119		R1530	1-216-451-11	METAL OXIDE 120 5%	2W F
D1503	8-719-911-19	DIODE 1SS119		R1531	1-249-429-11	CARBON 10K 5%	1/4W
D1504	8-719-911-19	DIODE 1SS119		R1532	1-249-421-11	CARBON 2.2K 5%	1/4W
D1505	8-719-911-19	DIODE 1SS119		R1533	1-247-903-91	CARBON 1M 5%	1/4W
D1506	8-719-911-19	DIODE 1SS119		R1534	1-249-423-11	CARBON 3.3K 5%	1/4W
D1507	8-719-110-88	DIODE RD39ES-B2		R1535	1-249-392-11	CARBON 8.2 5%	1/4W F
D1508	8-719-110-88	DIODE RD39ES-B2		R1540	1-215-445-00	METAL 10K 1%	1/4W
D1509	8-719-911-19	DIODE 1SS119		R1541	1-215-445-00	METAL 10K 1%	1/4W
<IC>				R1542	1-215-445-00	METAL 10K 1%	1/4W
IC1551	8-759-145-58	IC UPC4558C		R1551	1-215-445-00	METAL 10K 1%	1/4W
IC1552	8-759-912-77	IC LM324N		R1552	1-215-423-00	METAL 1.2K 1%	1/4W
<COIL>				R1553	1-249-417-11	CARBON 1K 5%	1/4W
L1502	1-408-418-00	INDUCTOR 56UH		R1554	1-215-445-00	METAL 10K 1%	1/4W
<TRANSISTOR>				R1555	1-215-375-00	METAL 12 1%	1/4W
Q1501	8-729-208-39	TRANSISTOR 2SA1306A-Y		R1556	1-215-375-00	METAL 12 1%	1/4W
Q1502	8-729-017-06	TRANSISTOR 2SC4793		R1557	1-215-375-00	METAL 12 1%	1/4W
Q1503	8-729-119-78	TRANSISTOR 2SC2785-HFE		R1558	1-215-445-00	METAL 10K 1%	1/4W
Q1504	8-729-119-78	TRANSISTOR 2SC2785-HFE		R1559	1-215-445-00	METAL 10K 1%	1/4W
Q1505	8-729-119-76	TRANSISTOR 2SA1175-HFE		R1560	1-215-445-00	METAL 10K 1%	1/4W
Q1506	8-729-119-78	TRANSISTOR 2SC2785-HFE		R1561	1-215-423-00	METAL 1.2K 1%	1/4W
Q1507	8-729-119-78	TRANSISTOR 2SC2785-HFE		R1562	1-215-423-00	METAL 1.2K 1%	1/4W
Q1508	8-729-142-86	TRANSISTOR 2SC3733		R1563	1-215-445-00	METAL 10K 1%	1/4W
Q1551	8-729-231-60	TRANSISTOR 2SD1406-YGR		R1564	1-249-417-11	CARBON 1K 5%	1/4W
Q1552	8-729-202-02	TRANSISTOR 2SB1015-Y		R1565	1-215-445-00	METAL 10K 1%	1/4W
Q1553	8-729-231-60	TRANSISTOR 2SD1406-YGR		R1566	1-215-375-00	METAL 12 1%	1/4W
				R1567	1-215-375-00	METAL 12 1%	1/4W
				R1568	1-215-375-00	METAL 12 1%	1/4W
				R1569	1-215-445-00	METAL 10K 1%	1/4W
				R1570	1-215-445-00	METAL 10K 1%	1/4W
				R1571	1-249-417-11	CARBON 1K 5%	1/4W
				R1572	1-215-445-00	METAL 10K 1%	1/4W



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1573	1-215-375-00	METAL	12 1% 1/4W	C1705	1-102-963-00	CERAMIC	33PF 5% 50V
R1574	1-215-375-00	METAL	12 1% 1/4W	C1706	1-102-963-00	CERAMIC	33PF 5% 50V
R1575	1-215-375-00	METAL	12 1% 1/4W	C1707	1-102-963-00	CERAMIC	33PF 5% 50V
R1576	1-215-445-00	METAL	10K 1% 1/4W	C1708	1-102-963-00	CERAMIC	33PF 5% 50V
R1577	1-215-445-00	METAL	10K 1% 1/4W	C1709	1-102-963-00	CERAMIC	33PF 5% 50V
R1578	1-249-417-11	CARBON	1K 5% 1/4W	C1710	1-102-963-00	CERAMIC	33PF 5% 50V
R1579	1-249-417-11	CARBON	1K 5% 1/4W	C1711	1-126-233-11	ELECT	22MF 20% 50V
R1580	1-249-417-11	CARBON	1K 5% 1/4W	C1712	1-124-916-11	ELECT	22MF 20% 25V
R1581	1-249-432-11	CARBON	18K 5% 1/4W	C1713	1-102-074-00	CERAMIC	0.001MF 10% 50V
R1582	1-249-432-11	CARBON	18K 5% 1/4W	C1714	1-124-478-11	ELECT	100MF 20% 25V
<CONNECTOR>				C1715	1-124-478-11	ELECT	100MF 20% 25V
V2	*1-564-518-11	PLUG, CONNECTOR 3P		C1716	1-126-803-11	ELECT	47MF 20% 25V
V22	1-573-300-11	CONNECTOR, BOARD TO BOARD 18P		C1717	1-126-803-11	ELECT	47MF 20% 25V
*****				C1718	1-102-074-00	CERAMIC	0.001MF 10% 50V
*A-1346-117-A	D BOARD, COMPLETE			C1719	1-124-234-00	ELECT	22MF 20% 16V
*****				C1720	1-130-491-00	MYLAR	0.047MF 5% 50V
1-533-223-11	CLIP, FUSE			C1721	1-130-491-00	MYLAR	0.047MF 5% 50V
4-382-854-11	SCREW (M3X10), P, SW (+)			C1722	1-130-491-00	MYLAR	0.047MF 5% 50V
*4-395-527-01	HOLDER (B), TR			C1724	1-124-234-00	ELECT	22MF 20% 16V
<CAPACITOR>				C1725	1-102-963-00	CERAMIC	33PF 5% 50V
C901	1-126-320-11	ELECT	10MF 20% 16V	C1726	1-124-122-11	ELECT	100MF 20% 35V
C902	1-124-477-11	ELECT	47MF 20% 16V	C1727	1-102-963-00	CERAMIC	33PF 5% 50V
C903	1-130-471-00	MYLAR	0.001MF 5% 50V	C1728	1-102-963-00	CERAMIC	33PF 5% 50V
C904	1-130-471-00	MYLAR	0.001MF 5% 50V	C1729	1-108-426-91	MYLAR	0.027MF 200V
C905	1-124-477-11	ELECT	47MF 20% 16V	C1730	1-102-963-00	CERAMIC	33PF 5% 50V
C906	1-126-233-11	ELECT	22MF 20% 50V	C1731	1-124-122-11	ELECT	100MF 20% 35V
C907	1-126-101-11	ELECT	100MF 20% 16V	C1732	1-108-426-91	MYLAR	0.027MF 200V
C908	1-124-907-11	ELECT	10MF 20% 50V	C1733	1-102-963-00	CERAMIC	33PF 5% 50V
C910	1-130-483-00	MYLAR	0.01MF 5% 50V	C1734	1-102-963-00	CERAMIC	33PF 5% 50V
C911	1-131-341-00	TANTALUM	0.1MF 20% 16V	C1735	1-124-122-11	ELECT	100MF 20% 35V
C912	1-124-903-11	ELECT	1MF 20% 50V	C1736	1-108-426-91	MYLAR	0.027MF 200V
C913	1-126-233-11	ELECT	22MF 20% 50V	C1737	1-124-937-11	ELECT	10MF 20% 16V
C914	1-126-803-11	ELECT	47MF 20% 16V	C1738	1-124-122-11	ELECT	100MF 20% 35V
C915	1-124-927-11	ELECT	4.7MF 20% 50V	C1739	1-136-153-00	FILM	0.01MF 5% 50V
C916	1-102-074-00	CERAMIC	0.001MF 10% 50V	C1740	1-124-122-11	ELECT	100MF 20% 35V
C917	1-130-471-00	MYLAR	0.001MF 5% 50V	C1741	1-124-122-11	ELECT	100MF 20% 35V
C918	1-102-963-00	CERAMIC	33PF 5% 50V	C1742	1-126-104-11	ELECT	470MF 20% 35V
C919	1-102-963-00	CERAMIC	33PF 5% 50V	C1744	1-124-478-11	ELECT	100MF 20% 25V
C920	1-102-963-00	CERAMIC	33PF 5% 50V	C1745	1-126-375-11	ELECT	100MF 20% 25V
C921	1-102-963-00	CERAMIC	33PF 5% 50V	C1755	1-106-220-00	MYLAR	0.1MF 10% 100V
C922	1-102-963-00	CERAMIC	33PF 5% 50V	C1756	1-106-220-00	MYLAR	0.1MF 10% 100V
C923	1-102-963-00	CERAMIC	33PF 5% 50V	C1757	1-106-220-00	MYLAR	0.1MF 10% 100V
C931	1-102-973-00	CERAMIC	100PF 5% 50V	C1758	1-106-220-00	MYLAR	0.1MF 10% 100V
C932	1-124-903-11	ELECT	1MF 20% 50V	C1759	1-106-220-00	MYLAR	0.1MF 10% 100V
C933	1-124-234-00	ELECT	22MF 20% 16V	C1760	1-106-220-00	MYLAR	0.1MF 10% 100V
C934	1-124-234-00	ELECT	22MF 20% 16V	C1763	1-126-096-11	ELECT	10MF 20% 25V
C935	1-124-234-00	ELECT	22MF 20% 16V	C1764	1-124-477-11	ELECT	47MF 20% 16V
C936	1-124-234-00	ELECT	22MF 20% 16V	C1765	1-124-477-11	ELECT	47MF 20% 16V
C937	1-124-234-00	ELECT	22MF 20% 16V	C1766	1-126-101-11	ELECT	100MF 20% 16V
C938	1-124-234-00	ELECT	22MF 20% 16V	C1769	1-126-157-11	ELECT	10MF 20% 16V
C939	1-124-234-00	ELECT	22MF 20% 16V	C1770	1-130-495-00	MYLAR	0.1MF 5% 50V
C940	1-124-916-11	ELECT	22MF 20% 25V	C1771	1-126-096-11	ELECT	10MF 20% 25V
C941	1-102-123-00	CERAMIC	0.0033MF 10% 50V	C1772	1-126-096-11	ELECT	10MF 20% 25V
C942	1-102-123-00	CERAMIC	0.0033MF 10% 50V	C1861	1-102-074-00	CERAMIC	0.001MF 10% 50V
C943	1-102-123-00	CERAMIC	0.0033MF 10% 50V	<CONNECTOR>			
C1701	1-124-907-11	ELECT	10MF 20% 50V	D1	*1-564-510-11	PLUG, CONNECTOR 7P	
C1702	1-124-907-11	ELECT	10MF 20% 50V	D2	*1-564-511-11	PLUG, CONNECTOR 8P	
C1703	1-124-907-11	ELECT	10MF 20% 50V	D3	*1-564-512-11	PLUG, CONNECTOR 9P	
C1704	1-123-875-11	ELECT	10MF 20% 50V	D4	*1-564-508-11	PLUG, CONNECTOR 5P	
				D5	*1-564-511-11	PLUG, CONNECTOR 8P	
				D6	1-691-169-11	PIN, CONNECTOR 12P	

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

Les composants identifiés par une trame et une marque **▲** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifique.

D

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
D7	*1-564-507-11	PLUG, CONNECTOR 4P					
D8	*1-564-506-11	PLUG, CONNECTOR 3P					
D9	*1-564-507-11	PLUG, CONNECTOR 4P					
D14	*1-564-513-31	PLUG, CONNECTOR 10P					
<DIODE>				<COIL>			
D901	8-719-911-19	DIODE ISS119		L901	1-459-313-00	COIL WITH CORE (HWC)	
D902	8-719-911-19	DIODE ISS119		L902	1-459-313-00	COIL WITH CORE (HWC)	
D1701	8-719-900-95	DIODE V09G		L903	1-459-313-00	COIL WITH CORE (HWC)	
D1702	8-719-911-19	DIODE ISS119		L904	1-459-313-00	COIL WITH CORE (HWC)	
D1703	8-719-900-95	DIODE V09G		<TRANSISTOR>			
D1704	8-719-900-95	DIODE V09G		Q902	8-729-900-89	TRANSISTOR DTC144ES	
D1705	8-719-900-95	DIODE V09G		Q906	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D1706	8-719-900-95	DIODE V09G		Q907	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D1707	8-719-911-19	DIODE ISS119		Q908	8-729-900-89	TRANSISTOR DTC144ES	
D1708	8-719-911-19	DIODE ISS119		Q909	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D1709	8-719-911-19	DIODE ISS119		Q910	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D1710	8-719-911-19	DIODE ISS119		Q911	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D1711	8-719-911-19	DIODE ISS119		Q912	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D1712	8-719-911-19	DIODE ISS119		<RESISTOR>			
D1713	8-719-911-19	DIODE ISS119		R901	1-215-463-00	METAL	56K 1% 1/4W
D1714	8-719-911-19	DIODE ISS119		R902	1-215-463-00	METAL	56K 1% 1/4W
D1715	8-719-911-19	DIODE ISS119		R903	1-215-449-00	METAL	15K 1% 1/4W
D1716	8-719-911-19	DIODE ISS119		R904	1-215-455-00	METAL	27K 1% 1/4W
D1717	8-719-911-19	DIODE ISS119		R905	1-215-449-00	METAL	15K 1% 1/4W
D1718	8-719-911-19	DIODE ISS119		R906	1-215-469-00	METAL	100K 1% 1/4W
D1720	8-719-109-50	DIODE RD2.0ES-B1		R907	1-215-469-00	METAL	100K 1% 1/4W
D1721	8-719-109-50	DIODE RD2.0ES-B1		R908	1-215-469-00	METAL	100K 1% 1/4W
D1722	8-719-109-50	DIODE RD2.0ES-B1		R909	1-215-473-00	METAL	150K 1% 1/4W
D1723	8-719-109-50	DIODE RD2.0ES-B1		R910	1-215-437-00	METAL	4.7K 1% 1/4W
<FUSE>				R911	1-215-453-00	METAL	22K 1% 1/4W
F901	▲ 1-532-745-11	FUSE, GLASS TUBE 3.15A/125V		R912	1-215-453-00	METAL	22K 1% 1/4W
F902	▲ 1-532-745-11	FUSE, GLASS TUBE 3.15A/125V		R913	1-215-437-00	METAL	4.7K 1% 1/4W
<IC>				R914	1-215-453-00	METAL	22K 1% 1/4W
IC901	8-759-145-58	IC UPC4558C		R915	1-215-413-00	METAL	470 1% 1/4W
IC902	8-752-033-68	IC CXA1268P		R916	1-215-457-00	METAL	33K 1% 1/4W
IC903	8-759-701-56	IC NJM78M05FA		R917	1-215-453-00	METAL	22K 1% 1/4W
IC904	8-759-701-65	IC NJM79M05FA		R919	1-215-399-00	METAL	120 1% 1/4W
IC905	8-759-701-89	IC NJM7915FA		R920	1-215-399-00	METAL	120 1% 1/4W
IC906	8-759-148-84	IC UPC2415HF		R921	1-215-399-00	METAL	120 1% 1/4W
IC907	8-759-140-53	IC UPD4053BC		R922	1-215-399-00	METAL	120 1% 1/4W
IC908	8-759-145-58	IC UPC4558C		R923	1-215-441-00	METAL	6.8K 1% 1/4W
IC910	8-759-054-40	IC PA0036		R924	1-215-441-00	METAL	6.8K 1% 1/4W
IC1701	8-759-602-19	IC M5220L		R925	1-215-441-00	METAL	6.8K 1% 1/4W
IC1702	8-759-602-19	IC M5220L		R926	1-215-463-00	METAL	56K 1% 1/4W
IC1703	8-759-602-19	IC M5220L		R927	1-215-463-00	METAL	56K 1% 1/4W
IC1704	8-749-923-16	IC STK4278-L		R928	1-215-461-00	METAL	47K 1% 1/4W
IC1705	8-749-923-16	IC STK4278-L		R929	1-215-433-00	METAL	3.3K 1% 1/4W
IC1706	8-759-113-13	IC UPC1498H		R930	1-215-433-00	METAL	3.3K 1% 1/4W
IC1707	8-759-113-13	IC UPC1498H		R931	1-215-433-00	METAL	3.3K 1% 1/4W
IC1708	8-759-113-13	IC UPC1498H		R932	1-215-433-00	METAL	3.3K 1% 1/4W
IC1709	8-759-145-58	IC UPC4558C		R933	1-215-433-00	METAL	3.3K 1% 1/4W
IC1710	8-759-145-58	IC UPC4558C		R934	1-215-433-00	METAL	3.3K 1% 1/4W
IC1714	8-759-145-58	IC UPC4558C		R935	1-215-439-00	METAL	5.6K 1% 1/4W
IC1715	8-759-145-58	IC UPC4558C		R936	1-215-439-00	METAL	5.6K 1% 1/4W
IC1718	8-759-145-58	IC UPC4558C		R937	1-215-439-00	METAL	5.6K 1% 1/4W
				R938	1-215-417-00	METAL	680 1% 1/4W
				R939	1-215-433-00	METAL	3.3K 1% 1/4W
				R940	1-215-429-00	METAL	2.2K 1% 1/4W
				R941	1-215-441-00	METAL	6.8K 1% 1/4W
				R942	1-215-451-00	METAL	18K 1% 1/4W
				R943	1-215-441-00	METAL	6.8K 1% 1/4W
				R944	1-215-439-00	METAL	5.6K 1% 1/4W
				R945	1-215-445-00	METAL	10K 1% 1/4W
				R946	1-215-445-00	METAL	10K 1% 1/4W
				R947	1-215-439-00	METAL	5.6K 1% 1/4W

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R948	1-215-447-00	METAL	12K 1% 1/4W	R1714	1-249-411-11	CARBON	330 5% 1/4W
R949	1-215-439-00	METAL	5.6K 1% 1/4W	R1715	1-249-411-11	CARBON	330 5% 1/4W
R950	1-215-429-00	METAL	2.2K 1% 1/4W	R1716	1-215-886-11	METAL OXIDE	100 5% 2W F
R951	1-215-429-00	METAL	2.2K 1% 1/4W	R1717	1-249-411-11	CARBON	330 5% 1/4W
R952	1-215-429-00	METAL	2.2K 1% 1/4W	R1718	1-249-417-11	CARBON	1K 5% 1/4W
R953	1-215-439-00	METAL	5.6K 1% 1/4W	R1719	1-214-792-00	METAL	1 1% 1/2W
R954	1-215-439-00	METAL	5.6K 1% 1/4W	R1720	1-249-411-11	CARBON	330 5% 1/4W
R955	1-215-435-00	METAL	3.9K 1% 1/4W	R1721	1-249-417-11	CARBON	1K 5% 1/4W
R956	1-215-437-00	METAL	4.7K 1% 1/4W	R1722	1-249-411-11	CARBON	330 5% 1/4W
R957	1-215-441-00	METAL	6.8K 1% 1/4W	R1723	1-249-417-11	CARBON	1K 5% 1/4W
R958	1-215-437-00	METAL	4.7K 1% 1/4W	R1724	1-215-886-11	METAL OXIDE	100 5% 2W F
R959	1-215-439-00	METAL	5.6K 1% 1/4W	R1725	1-215-886-11	METAL OXIDE	100 5% 2W F
R960	1-215-439-00	METAL	5.6K 1% 1/4W	R1726	1-215-886-11	METAL OXIDE	100 5% 2W F
R961	1-215-439-00	METAL	5.6K 1% 1/4W	R1727	1-214-792-00	METAL	1 1% 1/2W
R962	1-215-441-00	METAL	6.8K 1% 1/4W	R1728	1-214-792-00	METAL	1 1% 1/2W
R963	1-215-441-00	METAL	6.8K 1% 1/4W	R1729	1-214-792-00	METAL	1 1% 1/2W
R964	1-215-441-00	METAL	6.8K 1% 1/4W	R1730	1-249-405-11	CARBON	100 5% 1/4W
R965	1-215-909-11	METAL OXIDE	47 5% 3W F	R1731	1-249-417-11	CARBON	1K 5% 1/4W
R966	1-215-469-00	METAL	100K 1% 1/4W	R1732	1-249-405-11	CARBON	100 5% 1/4W
R967	1-215-421-00	METAL	1K 1% 1/4W	R1733	1-249-405-11	CARBON	100 5% 1/4W
R968	1-215-437-00	METAL	4.7K 1% 1/4W	R1734	1-249-405-11	CARBON	100 5% 1/4W
R969	1-249-421-11	CARBON	2.2K 5% 1/4W	R1735	1-249-405-11	CARBON	100 5% 1/4W
R970	1-215-909-11	METAL OXIDE	47 5% 3W F	R1736	1-249-423-11	CARBON	3.3K 5% 1/4W
R971	1-249-421-11	CARBON	2.2K 5% 1/4W	R1737	1-249-423-11	CARBON	3.3K 5% 1/4W
R972	1-249-431-11	CARBON	15K 5% 1/4W	R1738	1-249-423-11	CARBON	3.3K 5% 1/4W
R973	1-249-431-11	CARBON	15K 5% 1/4W	R1739	1-249-423-11	CARBON	3.3K 5% 1/4W
R974	1-215-399-00	METAL	120 1% 1/4W	R1740	1-249-417-11	CARBON	1K 5% 1/4W
R975	1-215-399-00	METAL	120 1% 1/4W	R1741	1-249-423-11	CARBON	3.3K 5% 1/4W
R976	1-215-399-00	METAL	120 1% 1/4W	R1742	1-249-423-11	CARBON	3.3K 5% 1/4W
R977	1-215-399-00	METAL	120 1% 1/4W	R1743	1-249-417-11	CARBON	1K 5% 1/4W
R978	1-215-399-00	METAL	120 1% 1/4W	R1744	1-249-411-11	CARBON	330 5% 1/4W
R979	1-215-399-00	METAL	120 1% 1/4W	R1745	1-249-405-11	CARBON	100 5% 1/4W
R980	1-215-399-00	METAL	120 1% 1/4W	R1746	1-214-792-00	METAL	1 1% 1/2W
R981	1-215-399-00	METAL	120 1% 1/4W	R1747	1-215-886-11	METAL OXIDE	100 5% 2W F
R982	1-249-431-11	CARBON	15K 5% 1/4W	R1748	1-215-421-00	METAL	1K 1% 1/4W
R983	1-249-431-11	CARBON	15K 5% 1/4W	R1749	1-215-421-00	METAL	1K 1% 1/4W
R984	1-214-804-11	METAL	3.3 1% 1/2W	R1750	1-215-421-00	METAL	1K 1% 1/4W
R985	1-214-804-11	METAL	3.3 1% 1/2W	R1751	1-215-421-00	METAL	1K 1% 1/4W
R986	1-214-804-11	METAL	3.3 1% 1/2W	R1752	1-215-421-00	METAL	1K 1% 1/4W
R987	1-215-421-00	METAL	1K 1% 1/4W	R1753	1-215-421-00	METAL	1K 1% 1/4W
R988	1-215-421-00	METAL	1K 1% 1/4W	R1754	1-214-792-00	METAL	1 1% 1/2W
R989	1-215-421-00	METAL	1K 1% 1/4W	R1755	1-215-469-00	METAL	100K 1% 1/4W
R990	1-215-421-00	METAL	1K 1% 1/4W	R1756	1-215-437-00	METAL	4.7K 1% 1/4W
R991	1-215-421-00	METAL	1K 1% 1/4W	R1757	1-215-437-00	METAL	4.7K 1% 1/4W
R992	1-215-421-00	METAL	1K 1% 1/4W	R1758	1-215-437-00	METAL	4.7K 1% 1/4W
R993	1-249-429-11	CARBON	10K 5% 1/4W	R1759	1-249-405-11	CARBON	100 5% 1/4W
R994	1-249-429-11	CARBON	10K 5% 1/4W	R1760	1-249-427-11	CARBON	6.8K 5% 1/4W
R995	1-215-457-00	METAL	33K 1% 1/4W	R1761	1-249-419-11	CARBON	1.5K 5% 1/4W
R997	1-215-463-00	METAL	56K 1% 1/4W	R1762	1-215-445-00	METAL	10K 1% 1/4W
R998	1-215-409-00	METAL	330 1% 1/4W	R1763	1-249-427-11	CARBON	6.8K 5% 1/4W
R999	1-215-455-00	METAL	27K 1% 1/4W	R1764	1-249-419-11	CARBON	1.5K 5% 1/4W
R1701	1-249-411-11	CARBON	330 5% 1/4W	R1765	1-249-419-11	CARBON	1.5K 5% 1/4W
R1702	1-249-427-11	CARBON	6.8K 5% 1/4W	R1766	1-249-427-11	CARBON	6.8K 5% 1/4W
R1703	1-249-427-11	CARBON	6.8K 5% 1/4W	R1767	1-249-427-11	CARBON	6.8K 5% 1/4W
R1704	1-249-411-11	CARBON	330 5% 1/4W	R1768	1-249-439-11	CARBON	68K 5% 1/4W
R1705	1-249-411-11	CARBON	330 5% 1/4W	R1769	1-215-445-00	METAL	10K 1% 1/4W
R1706	1-249-427-11	CARBON	6.8K 5% 1/4W	R1770	1-249-405-11	CARBON	100 5% 1/4W
R1707	1-249-411-11	CARBON	330 5% 1/4W	R1771	1-249-405-11	CARBON	100 5% 1/4W
R1708	1-249-427-11	CARBON	6.8K 5% 1/4W	R1772	1-215-429-00	METAL	2.2K 1% 1/4W
R1709	1-249-427-11	CARBON	6.8K 5% 1/4W	R1773	1-215-429-00	METAL	2.2K 1% 1/4W
R1710	1-249-411-11	CARBON	330 5% 1/4W	R1774	1-215-421-00	METAL	1K 1% 1/4W
R1711	1-249-411-11	CARBON	330 5% 1/4W	R1775	1-249-429-11	CARBON	10K 5% 1/4W
R1712	1-249-427-11	CARBON	6.8K 5% 1/4W	R1776	1-215-421-00	METAL	1K 1% 1/4W
R1713	1-215-886-11	METAL OXIDE	100 5% 2W F				

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1777	1-249-423-11	CARBON	3.3K 5% 1/4W	R1861	1-215-453-00	METAL	22K 1% 1/4W
R1778	1-215-421-00	METAL	1K 1% 1/4W	R1862	1-215-453-00	METAL	22K 1% 1/4W
R1779	1-215-898-11	METAL OXIDE	10K 5% 2W F	R1863	1-215-397-00	METAL	100 1% 1/4W
R1780	1-214-804-11	METAL	3.3 1% 1/2W	R1864	1-215-437-00	METAL	4.7K 1% 1/4W
R1781	1-214-804-11	METAL	3.3 1% 1/2W	R1865	1-215-453-00	METAL	22K 1% 1/4W
R1782	1-215-898-11	METAL OXIDE	10K 5% 2W F	R1866	1-215-453-00	METAL	22K 1% 1/4W
R1783	1-214-804-11	METAL	3.3 1% 1/2W	R1867	1-215-437-00	METAL	4.7K 1% 1/4W
R1784	1-214-804-11	METAL	3.3 1% 1/2W	R1868	1-215-439-00	METAL	5.6K 1% 1/4W
R1785	1-215-898-11	METAL OXIDE	10K 5% 2W F	R1869	1-215-445-00	METAL	10K 1% 1/4W
R1786	1-214-804-11	METAL	3.3 1% 1/2W	R1870	1-215-445-00	METAL	10K 1% 1/4W
R1787	1-214-804-11	METAL	3.3 1% 1/2W	R1871	1-215-445-00	METAL	10K 1% 1/4W
R1788	1-249-433-11	CARBON	22K 5% 1/4W	R1872	1-215-437-00	METAL	4.7K 1% 1/4W
R1789	1-249-441-11	CARBON	100K 5% 1/4W	R1873	1-215-437-00	METAL	4.7K 1% 1/4W
R1790	1-249-433-11	CARBON	22K 5% 1/4W	R1874	1-215-437-00	METAL	4.7K 1% 1/4W
R1791	1-249-429-11	CARBON	10K 5% 1/4W	R1875	1-215-437-00	METAL	4.7K 1% 1/4W
R1792	1-215-445-00	METAL	10K 1% 1/4W	R1876	1-215-437-00	METAL	4.7K 1% 1/4W
R1793	1-249-405-11	CARBON	100 5% 1/4W	R1877	1-215-437-00	METAL	4.7K 1% 1/4W
R1794	1-215-429-00	METAL	2.2K 1% 1/4W	R1878	1-215-475-00	METAL	180K 1% 1/4W
R1795	1-249-433-11	CARBON	22K 5% 1/4W	R1879	1-215-475-00	METAL	180K 1% 1/4W
R1796	1-249-405-11	CARBON	100 5% 1/4W	R1880	1-215-475-00	METAL	180K 1% 1/4W
R1797	1-249-429-11	CARBON	10K 5% 1/4W	R1881	1-215-461-00	METAL	47K 1% 1/4W
R1798	1-249-423-11	CARBON	3.3K 5% 1/4W	R1882	1-215-445-00	METAL	10K 1% 1/4W
R1800	1-249-405-11	CARBON	100 5% 1/4W	R1883	1-215-453-00	METAL	22K 1% 1/4W
R1801	1-215-439-00	METAL	5.6K 1% 1/4W	R1884	1-215-397-00	METAL	100 1% 1/4W
R1802	1-215-439-00	METAL	5.6K 1% 1/4W	R1885	1-215-445-00	METAL	10K 1% 1/4W
R1803	1-215-439-00	METAL	5.6K 1% 1/4W	R1886	1-215-445-00	METAL	10K 1% 1/4W
R1805	1-215-439-00	METAL	5.6K 1% 1/4W	R1887	1-215-397-00	METAL	100 1% 1/4W
R1806	1-249-405-11	CARBON	100 5% 1/4W	R1888	1-215-461-00	METAL	47K 1% 1/4W
R1807	1-249-405-11	CARBON	100 5% 1/4W	R1889	1-215-457-00	METAL	33K 1% 1/4W
R1808	1-214-792-00	METAL	1 1% 1/2W	R1890	1-215-457-00	METAL	33K 1% 1/4W
R1809	1-214-792-00	METAL	1 1% 1/2W	R1891	1-215-443-00	METAL	8.2K 1% 1/4W
R1810	1-214-792-00	METAL	1 1% 1/2W	R1892	1-215-445-00	METAL	10K 1% 1/4W
R1811	1-214-792-00	METAL	1 1% 1/2W	R1894	1-215-429-00	METAL	2.2K 1% 1/4W
R1812	1-214-792-00	METAL	1 1% 1/2W	R1895	1-215-445-00	METAL	10K 1% 1/4W
R1813	1-214-792-00	METAL	1 1% 1/2W	R1896	1-215-445-00	METAL	10K 1% 1/4W
R1814	1-249-431-11	CARBON	15K 5% 1/4W	R1897	1-215-449-00	METAL	15K 1% 1/4W
R1815	1-247-885-00	CARBON	180K 5% 1/4W	R1898	1-215-445-00	METAL	10K 1% 1/4W
R1816	1-249-431-11	CARBON	15K 5% 1/4W	R1899	1-215-421-00	METAL	1K 1% 1/4W
R1817	1-247-885-00	CARBON	180K 5% 1/4W	R1900	1-215-429-00	METAL	2.2K 1% 1/4W
R1818	1-249-405-11	CARBON	100 5% 1/4W	R1901	1-215-449-00	METAL	15K 1% 1/4W
R1819	1-215-437-00	METAL	4.7K 1% 1/4W	R1902	1-215-445-00	METAL	10K 1% 1/4W
R1820	1-215-437-00	METAL	4.7K 1% 1/4W	R1903	1-215-445-00	METAL	10K 1% 1/4W
R1821	1-215-437-00	METAL	4.7K 1% 1/4W	R1904	1-215-445-00	METAL	10K 1% 1/4W
R1822	1-215-445-00	METAL	10K 1% 1/4W	R1905	1-215-445-00	METAL	10K 1% 1/4W
R1823	1-215-445-00	METAL	10K 1% 1/4W	R1906	1-215-429-00	METAL	2.2K 1% 1/4W
R1824	1-215-433-00	METAL	3.3K 1% 1/4W	R1907	1-215-445-00	METAL	10K 1% 1/4W
R1825	1-215-433-00	METAL	3.3K 1% 1/4W	R1908	1-215-445-00	METAL	10K 1% 1/4W
R1826	1-215-433-00	METAL	3.3K 1% 1/4W	R1909	1-215-445-00	METAL	10K 1% 1/4W
R1827	1-215-445-00	METAL	10K 1% 1/4W	R1910	1-215-445-00	METAL	10K 1% 1/4W
R1828	1-215-445-00	METAL	10K 1% 1/4W	R1911	1-215-453-00	METAL	22K 1% 1/4W
R1829	1-249-434-11	CARBON	27K 5% 1/4W	R1916	1-215-423-00	METAL	1.2K 1% 1/4W
R1830	1-249-434-11	CARBON	27K 5% 1/4W	R1920	1-215-453-00	METAL	22K 1% 1/4W
R1831	1-249-405-11	CARBON	100 5% 1/4W	R1921	1-215-445-00	METAL	10K 1% 1/4W
R1832	1-215-471-00	METAL	120K 1% 1/4W	R1922	1-215-445-00	METAL	10K 1% 1/4W
R1833	1-215-471-00	METAL	120K 1% 1/4W	R1924	1-215-429-00	METAL	2.2K 1% 1/4W
R1834	1-215-471-00	METAL	120K 1% 1/4W	R1925	1-215-429-00	METAL	2.2K 1% 1/4W
R1835	1-215-437-00	METAL	4.7K 1% 1/4W	R1926	1-215-429-00	METAL	2.2K 1% 1/4W
R1836	1-215-437-00	METAL	4.7K 1% 1/4W	R1927	1-215-445-00	METAL	10K 1% 1/4W
R1837	1-215-421-00	METAL	1K 1% 1/4W	R1928	1-215-421-00	METAL	1K 1% 1/4W
R1838	1-249-431-11	CARBON	15K 5% 1/4W	R1929	1-215-445-00	METAL	10K 1% 1/4W
R1839	1-249-431-11	CARBON	15K 5% 1/4W	R1930	1-215-397-00	METAL	100 1% 1/4W
R1858	1-215-445-00	METAL	10K 1% 1/4W	R1931	1-215-397-00	METAL	100 1% 1/4W
R1859	1-215-445-00	METAL	10K 1% 1/4W	R1932	1-215-453-00	METAL	22K 1% 1/4W
R1860	1-215-397-00	METAL	100 1% 1/4W				



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1933	1-215-453-00	METAL 22K 1%	1/4W	RV960	1-241-630-11	RES, ADJ, CARBON 10K	
R1934	1-215-429-00	METAL 2.2K 1%	1/4W	RV961	1-241-631-11	RES, ADJ, CARBON 22K	
R1937	1-215-445-00	METAL 10K 1%	1/4W	RV962	1-241-631-11	RES, ADJ, CARBON 22K	
<VARIABLE RESISTOR>				RV963	1-241-631-11	RES, ADJ, CARBON 22K	
RV901	1-241-631-11	RES, ADJ, CARBON 22K		RV964	1-241-631-11	RES, ADJ, CARBON 22K	
RV902	1-241-631-11	RES, ADJ, CARBON 22K		RV965	1-241-631-11	RES, ADJ, CARBON 22K	
RV903	1-241-631-11	RES, ADJ, CARBON 22K		RV966	1-241-631-11	RES, ADJ, CARBON 22K	
RV904	1-241-631-11	RES, ADJ, CARBON 22K		RV967	1-241-631-11	RES, ADJ, CARBON 22K	
RV905	1-241-631-11	RES, ADJ, CARBON 22K		RV968	1-241-631-11	RES, ADJ, CARBON 22K	
RV906	1-241-631-11	RES, ADJ, CARBON 22K		RV969	1-241-631-11	RES, ADJ, CARBON 22K	
RV907	1-241-631-11	RES, ADJ, CARBON 22K		RV970	1-241-631-11	RES, ADJ, CARBON 22K	
RV908	1-241-631-11	RES, ADJ, CARBON 22K		RV971	1-241-631-11	RES, ADJ, CARBON 22K	
RV909	1-241-631-11	RES, ADJ, CARBON 22K		RV972	1-241-631-11	RES, ADJ, CARBON 22K	
RV910	1-241-631-11	RES, ADJ, CARBON 22K		RV973	1-241-631-11	RES, ADJ, CARBON 22K	
RV911	1-241-627-11	RES, ADJ, CARBON 1K		RV974	1-241-631-11	RES, ADJ, CARBON 22K	
RV912	1-241-631-11	RES, ADJ, CARBON 22K		RV975	1-241-631-11	RES, ADJ, CARBON 22K	
RV913	1-238-023-11	RES, ADJ, CARBON 470K		RV976	1-241-631-11	RES, ADJ, CARBON 22K	
RV914	1-241-630-11	RES, ADJ, CARBON 10K		RV977	1-241-631-11	RES, ADJ, CARBON 22K	
RV915	1-241-630-11	RES, ADJ, CARBON 10K		RV978	1-241-631-11	RES, ADJ, CARBON 22K	
RV916	1-241-631-11	RES, ADJ, CARBON 22K		RV979	1-241-631-11	RES, ADJ, CARBON 22K	
RV917	1-241-631-11	RES, ADJ, CARBON 22K		RV980	1-238-019-11	RES, ADJ, CARBON 47K	
RV918	1-241-631-11	RES, ADJ, CARBON 22K		RV981	1-241-631-11	RES, ADJ, CARBON 22K	
RV919	1-241-631-11	RES, ADJ, CARBON 22K		RV982	1-241-631-11	RES, ADJ, CARBON 22K	
RV920	1-241-631-11	RES, ADJ, CARBON 22K		*****			
RV921	1-241-631-11	RES, ADJ, CARBON 22K		*1-644-278-11	DS BOARD	*****	
RV922	1-241-631-11	RES, ADJ, CARBON 22K		<CAPACITOR>			
RV923	1-241-631-11	RES, ADJ, CARBON 22K		C1745	1-126-101-11	ELECT 100MF 20%	16V
RV924	1-241-631-11	RES, ADJ, CARBON 22K		C1746	1-126-101-11	ELECT 100MF 20%	16V
RV925	1-241-631-11	RES, ADJ, CARBON 22K		C1747	1-126-101-11	ELECT 100MF 20%	16V
RV926	1-241-631-11	RES, ADJ, CARBON 22K		C1748	1-126-101-11	ELECT 100MF 20%	16V
RV927	1-241-631-11	RES, ADJ, CARBON 22K		C1750	1-124-916-11	ELECT 22MF 20%	25V
RV928	1-241-630-11	RES, ADJ, CARBON 10K		C1751	1-126-101-11	ELECT 100MF 20%	16V
RV929	1-241-631-11	RES, ADJ, CARBON 22K		C1752	1-124-916-11	ELECT 22MF 20%	25V
RV930	1-241-630-11	RES, ADJ, CARBON 10K		C1753	1-124-916-11	ELECT 22MF 20%	25V
RV931	1-241-631-11	RES, ADJ, CARBON 22K		C1851	1-102-074-00	CERAMIC 0.001MF 10%	50V
RV932	1-241-631-11	RES, ADJ, CARBON 22K		<CONNECTOR>			
RV933	1-241-631-11	RES, ADJ, CARBON 22K		DS6	1-691-182-11	CONNECTOR (BOARD TO BOARD) 12P	
RV934	1-241-631-11	RES, ADJ, CARBON 22K		<IC>			
RV935	1-241-631-11	RES, ADJ, CARBON 22K		IC1711	8-759-111-69	IC UPC1037HA	
RV936	1-241-631-11	RES, ADJ, CARBON 22K		IC1712	8-759-602-19	IC W5220L	
RV937	1-241-630-11	RES, ADJ, CARBON 10K		IC1713	8-759-111-69	IC UPC1037HA	
RV938	1-241-630-11	RES, ADJ, CARBON 10K		<RESISTOR>			
RV939	1-241-630-11	RES, ADJ, CARBON 10K		R1840	1-215-445-00	METAL 10K 1%	1/4W
RV940	1-241-631-11	RES, ADJ, CARBON 22K		R1841	1-215-433-00	METAL 3.3K 1%	1/4W
RV941	1-241-631-11	RES, ADJ, CARBON 22K		R1842	1-215-465-00	METAL 68K 1%	1/4W
RV942	1-241-631-11	RES, ADJ, CARBON 22K		R1843	1-215-421-00	METAL 1K 1%	1/4W
RV943	1-241-631-11	RES, ADJ, CARBON 22K		R1844	1-215-455-00	METAL 27K 1%	1/4W
RV944	1-241-631-11	RES, ADJ, CARBON 22K		R1845	1-215-455-00	METAL 27K 1%	1/4W
RV945	1-241-631-11	RES, ADJ, CARBON 22K		R1846	1-215-421-00	METAL 1K 1%	1/4W
RV946	1-241-631-11	RES, ADJ, CARBON 22K		R1850	1-215-461-00	METAL 47K 1%	1/4W
RV947	1-241-631-11	RES, ADJ, CARBON 22K		R1851	1-215-461-00	METAL 47K 1%	1/4W
RV948	1-241-631-11	RES, ADJ, CARBON 22K		R1852	1-215-429-00	METAL 2.2K 1%	1/4W
RV949	1-241-631-11	RES, ADJ, CARBON 22K		R1853	1-215-397-00	METAL 100 1%	1/4W
RV950	1-241-631-11	RES, ADJ, CARBON 22K					
RV951	1-241-631-11	RES, ADJ, CARBON 22K					
RV952	1-241-631-11	RES, ADJ, CARBON 22K					
RV953	1-241-631-11	RES, ADJ, CARBON 22K					
RV954	1-241-631-11	RES, ADJ, CARBON 22K					
RV955	1-241-631-11	RES, ADJ, CARBON 22K					
RV956	1-241-631-11	RES, ADJ, CARBON 22K					
RV957	1-241-631-11	RES, ADJ, CARBON 22K					
RV958	1-241-631-11	RES, ADJ, CARBON 22K					
RV959	1-241-631-11	RES, ADJ, CARBON 22K					

The components identified by shading and mark **▲** are critical for safety.

Replace only with part number specified.

Les composants identifiés par une trame et une marque **▲** sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

DS **H1** **H2**

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1854	1-215-429-00	METAL	2.2K 1% 1/4W				
R1855	1-215-397-00	METAL	100 1% 1/4W				
R1940	1-215-445-00	METAL	10K 1% 1/4W				
R1941	1-215-433-00	METAL	3.3K 1% 1/4W				
R1942	1-215-421-00	METAL	1K 1% 1/4W				
R1943	1-215-465-00	METAL	68K 1% 1/4W				
R1944	1-215-421-00	METAL	1K 1% 1/4W				
R1945	1-215-455-00	METAL	27K 1% 1/4W				
R1946	1-215-455-00	METAL	27K 1% 1/4W				
<VARIABLE RESISTOR>							
RV983	1-241-630-11	RES, ADJ, CARBON 10K					
RV984	1-241-630-11	RES, ADJ, CARBON 10K					

	*1-643-591-11	H1 BOARD					

	4-033-777-01	HOLDER, LED					
	*4-374-987-01	GUIDE, LIGHT					
	4-381-686-01	BRACKET (B), LIGHT GUIDE					
<CAPACITOR>							
C1601	1-124-907-11	ELECT	10MF 20% 50V				
C1602	1-124-907-11	ELECT	10MF 20% 50V				
C1603	1-124-907-11	ELECT	10MF 20% 50V				
C1604	1-124-261-00	ELECT	10MF 20% 50V				
<DIODE>							
D1601	8-719-812-41	DIODE TLR124					
D1602	8-719-812-41	DIODE TLR124					
<CONNECTOR>							
H11	*1-564-526-11	PLUG, CONNECTOR 11P					
H15	*1-564-517-41	PLUG, CONNECTOR 2P					
<IC>							
IC1601	8-741-148-33	IC SBX1483-59					
<RESISTOR>							
R1601	1-249-430-11	CARBON	12K 5% 1/4W				
R1602	1-249-425-11	CARBON	4.7K 5% 1/4W				
R1603	1-249-421-11	CARBON	2.2K 5% 1/4W				
R1604	1-249-419-11	CARBON	1.5K 5% 1/4W				
R1606	1-249-405-11	CARBON	100 5% 1/4W				
R1607	1-249-405-11	CARBON	100 5% 1/4W				
R1608	1-249-411-11	CARBON	330 5% 1/4W				
R1609	1-249-411-11	CARBON	330 5% 1/4W				
<SWITCH>							
S1601	1-554-303-21	SWITCH, TACTIL					
S1602	1-554-303-21	SWITCH, TACTIL					
S1603	1-554-303-21	SWITCH, TACTIL					
S1604	1-554-303-21	SWITCH, TACTIL					
S1605	1-554-303-21	SWITCH, TACTIL					
S1606▲	1-571-731-21	SWITCH, TACTIL (POWER)					

	*1-643-592-11	H2 BOARD					

<CAPACITOR>							
C1651	1-124-477-11	ELECT	47MF 20% 16V				
C1655	1-124-927-11	ELECT	4.7MF 20% 50V				
<DIODE>							
D1651	8-719-908-03	DIODE GPO8D					
D1652	8-719-908-03	DIODE GPO8D					
D1653	8-719-108-12	DIODE RD9.1E-W					
D1654	8-719-108-12	DIODE RD9.1E-W					
D1655	8-719-108-12	DIODE RD9.1E-W					
D1659	8-719-911-19	DIODE 1SS119					
D1660	8-719-110-88	DIODE RD39ES-B2					
D1661	8-719-110-88	DIODE RD39ES-B2					
D1662	8-719-110-88	DIODE RD39ES-B2					
D1663	8-719-110-88	DIODE RD39ES-B2					
<CONNECTOR>							
H22	*1-564-519-41	PLUG, CONNECTOR 4P					
H25	*1-564-517-41	PLUG, CONNECTOR 2P					
H26	*1-564-519-11	PLUG, CONNECTOR 4P					
H28	*1-564-518-11	PLUG, CONNECTOR 3P					
H211	*1-564-517-11	PLUG, CONNECTOR 2P					
H216	*1-564-525-11	PLUG, CONNECTOR 10P					
H225	*1-564-518-11	PLUG, CONNECTOR 3P					
<JACK>							
J1651	1-695-817-11	JACK BLOCK, PIN 3P					
<TRANSISTOR>							
Q1651	8-729-119-78	TRANSISTOR 2SC2785-HFE					
Q1652	8-729-119-78	TRANSISTOR 2SC2785-HFE					
Q1653	8-729-119-78	TRANSISTOR 2SC2785-HFE					
<RESISTOR>							
R1651	1-249-419-11	CARBON	1.5K 5% 1/4W				
R1652	1-249-421-11	CARBON	2.2K 5% 1/4W				
R1653	1-249-425-11	CARBON	4.7K 5% 1/4W				
R1654	1-249-430-11	CARBON	12K 5% 1/4W				
R1655	1-249-417-11	CARBON	1K 5% 1/4W				
R1656	1-249-417-11	CARBON	1K 5% 1/4W				
R1657	1-249-436-11	CARBON	39K 5% 1/4W				
R1658	1-249-437-11	CARBON	47K 5% 1/4W				
R1659	1-249-437-11	CARBON	47K 5% 1/4W				
<RELAY>							
RY1651	1-515-586-11	RELAY (DS-2)					
RY1652	1-515-586-11	RELAY (DS-2)					
<SWITCH>							
S1651	1-554-303-21	SWITCH, TACTIL					
S1652	1-554-303-21	SWITCH, TACTIL					
S1653	1-554-303-21	SWITCH, TACTIL					
S1654	1-554-303-21	SWITCH, TACTIL					


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


Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifique.


KP-41EXR96
RM-Y112A

N



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<DIODE>				<TRANSISTOR>			
D801	8-719-928-08	DIODE ERD28-08S		Q801 Δ 8-729-201-61	TRANSISTOR 2SC2555-1		
D802	8-719-300-80	DIODE RU-1C		Q802	8-729-119-80	TRANSISTOR 2SC2688-LK	
D803	8-719-109-85	DIODE RD5.1ES-B2		Q803	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D804	8-719-911-19	DIODE ISS119		Q804	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D805	8-719-911-19	DIODE ISS119		Q805	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D806	8-719-109-85	DIODE RD5.1ES-B2		Q806	8-729-119-80	TRANSISTOR 2SC2688-LK	
D807	8-719-109-85	DIODE RD5.1ES-B2		Q807	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D808	8-719-911-19	DIODE ISS119		Q808	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D809	8-719-911-19	DIODE ISS119		Q809	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D810	8-719-911-19	DIODE ISS119		Q811 Δ 8-729-805-07	TRANSISTOR 2SD1887-CA		
D811	8-719-109-85	DIODE RD5.1ES-B2		Q812	8-729-019-88	TRANSISTOR 2SC3675-CB	
D812	8-719-911-19	DIODE ISS119		Q820	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D813	8-719-911-19	DIODE ISS119		Q851	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D814	8-719-911-19	DIODE ISS119		Q852	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D815	8-719-110-36	DIODE RD13ES-B2		Q853	8-729-820-98	TRANSISTOR 2SC4256CB	
D817	8-719-945-80	DIODE ERC06-15S		<RESISTOR>			
D818	8-719-911-19	DIODE ISS119		R801	1-216-378-11	METAL OXIDE 5.6 5%	2W F
D820	8-719-911-19	DIODE ISS119		R802	1-215-926-00	METAL OXIDE 33K 5%	3W F
D850	8-719-109-71	DIODE RD3.9ES-B1		R803	1-215-926-00	METAL OXIDE 33K 5%	3W F
D851 Δ 8-719-903-09	DIODE V30N			R804	1-249-429-11	CARBON 10K 5%	1/4W
D852	8-719-911-19	DIODE ISS119		R805	1-249-423-11	CARBON 3.3K 5%	1/4W
D853 Δ 8-719-903-09	DIODE V30N			R806	1-249-425-11	CARBON 4.7K 5%	1/4W
D891	8-719-110-49	DIODE RD18ES-B2		R807	1-249-441-11	CARBON 100K 5%	1/4W
D892	8-719-110-49	DIODE RD18ES-B2		R808	1-249-417-11	CARBON 1K 5%	1/4W
<IC>				R809	1-249-417-11	CARBON 1K 5%	1/4W
IC801	8-759-231-58	IC TA7812S		R810	1-249-441-11	CARBON 100K 5%	1/4W
IC802	8-759-103-93	IC UPC393C		R811	1-249-421-11	CARBON 2.2K 5%	1/4W
IC803	8-759-990-82	IC TL082CP		R812	1-249-420-11	CARBON 1.8K 5%	1/4W F
IC804	8-759-103-93	IC UPC393C		R813	1-215-921-11	METAL OXIDE 4.7K 5%	3W F
IC805	8-759-100-75	IC UPC1394C		R814	1-249-409-11	CARBON 220 5%	1/4W
<COIL>				R815	1-249-415-11	CARBON 680 5%	1/4W
L801	1-459-862-11	COIL, CHOKE 90UH		R816	1-214-777-00	METAL 100K 1%	1/4W
L802	1-424-603-11	COIL, CHOKE 1.05MMH		R817	1-215-471-00	METAL 120K 1%	1/4W
L803	1-459-313-00	COIL WITH CORE (HWC)		R818	1-215-471-00	METAL 120K 1%	1/4W
L804	1-410-482-31	INDUCTOR 100UH		R819	1-215-450-00	METAL 16K 1%	1/4W
L805 Δ 1-424-603-11	COIL, CHOKE 1.05MMH		R820	1-215-451-00	METAL 18K 1%	1/4W	
<CONNECTOR>				R821	1-249-423-11	CARBON 3.3K 5%	1/4W
N1	1-506-348-99	PIN, CONNECTOR 3P		R822	1-249-433-11	CARBON 22K 5%	1/4W
N2	*1-564-508-11	PLUG, CONNECTOR 5P		R823	1-249-429-11	CARBON 10K 5%	1/4W
N3	*1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P		R824	1-215-469-00	METAL 100K 1%	1/4W
N4	*1-564-507-11	PLUG, CONNECTOR 4P		R825	1-215-453-00	METAL 22K 1%	1/4W
N5	*1-564-508-11	PLUG, CONNECTOR 5P		R826	1-214-962-00	METAL 820K 1%	1/4W
N6	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P		R827	1-214-764-00	METAL 30K 1%	1/4W
N7	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P		R828	1-215-455-00	METAL 27K 1%	1/4W
N8	*1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P		R829	1-215-455-00	METAL 27K 1%	1/4W
N9	1-506-348-99	PIN, CONNECTOR 3P		R830	1-215-928-11	METAL OXIDE 68K 5%	3W F
N10	*1-564-511-41	PLUG, CONNECTOR 8P		R831	1-215-928-11	METAL OXIDE 68K 5%	3W F
N20	*1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P		R832	1-249-417-11	CARBON 1K 5%	1/4W
N21	*1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P		R833	1-249-419-11	CARBON 1.5K 5%	1/4W
N30	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P		R834	1-249-419-11	CARBON 1.5K 5%	1/4W
N851	*1-506-371-00	PIN, CONNECTOR 2P		R835	1-215-429-00	METAL 2.2K 1%	1/4W
N853	*1-506-371-00	PIN, CONNECTOR 2P		R836	1-215-435-00	METAL 3.9K 1%	1/4W
<NEON LAMP>				R837	1-249-433-11	CARBON 22K 5%	1/4W
NL801	1-519-108-99	LAMP, NEON		R838	1-249-435-11	CARBON 33K 5%	1/4W
				R839	1-249-438-11	CARBON 56K 5%	1/4W
				R840	1-249-434-11	CARBON 27K 5%	1/4W
				R841	1-249-429-11	CARBON 10K 5%	1/4W
				R842	1-249-435-11	CARBON 33K 5%	1/4W
				R843	1-249-423-11	CARBON 3.3K 5%	1/4W



The components identified by  in this manual 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.

Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifique.

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

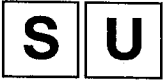


REF. NO.	PART NO.	DESCRIPTION	REMARK
R844	1-249-433-11	CARBON 22K 5%	1/4W
R845	1-249-435-11	CARBON 33K 5%	1/4W
R846	1-249-429-11	CARBON 10K 5%	1/4W
R847	1-214-761-00	METAL 22K 1%	1/4W
R848	1-215-429-00	METAL 2.2K 1%	1/4W
R849	1-215-421-00	METAL 1K 1%	1/4W
R850	1-215-429-00	METAL 2.2K 1%	1/4W
R851	1-215-404-00	METAL 200 1%	1/4W
 R852		METAL	1/4W
R853	1-215-469-00	METAL 100K 1%	1/4W
R854	1-249-430-11	CARBON 12K 5%	1/4W
R855	1-215-469-00	METAL 100K 1%	1/4W
R856	1-249-430-11	CARBON 12K 5%	1/4W
R857	1-249-433-11	CARBON 22K 5%	1/4W
R858	1-249-413-11	CARBON 470 5%	1/4W
R859	1-249-435-11	CARBON 33K 5%	1/4W
R860	1-249-441-11	CARBON 100K 5%	1/4W
R861	1-249-421-11	CARBON 2.2K 5%	1/4W
R862	1-249-434-11	CARBON 27K 5%	1/4W
R863	1-249-431-11	CARBON 15K 5%	1/4W
R864	1-249-423-11	CARBON 3.3K 5%	1/4W
R865	1-249-440-11	CARBON 82K 5%	1/4W
R866	1-249-436-11	CARBON 39K 5%	1/4W
R867	1-249-437-11	CARBON 47K 5%	1/4W
R868	1-249-428-11	CARBON 8.2K 5%	1/4W
R869	1-249-429-11	CARBON 10K 5%	1/4W
R870	1-249-417-11	CARBON 1K 5%	1/4W
R871	1-249-440-11	CARBON 82K 5%	1/4W
R872	1-249-423-11	CARBON 3.3K 5%	1/4W
R873	1-249-441-11	CARBON 100K 5%	1/4W
R874	1-249-435-11	CARBON 33K 5%	1/4W
R875	1-249-421-11	CARBON 2.2K 5%	1/4W
R876	1-215-426-00	METAL 1.6K 1%	1/4W
R877	1-249-435-11	CARBON 33K 5%	1/4W
R878	1-249-441-11	CARBON 100K 5%	1/4W
R879	1-216-489-11	METAL OXIDE 27K 5%	3W F
R880	1-249-429-11	CARBON 10K 5%	1/4W
R881	1-214-761-00	METAL 22K 1%	1/4W
R882	1-249-433-11	CARBON 22K 5%	1/4W
R883	1-249-417-11	CARBON 1K 5%	1/4W
R884	1-215-894-11	METAL OXIDE 2.2K 5%	2W F
R885	1-249-438-11	CARBON 56K 5%	1/4W
R886	1-249-414-11	CARBON 560 5%	1/4W
R887	1-215-397-00	METAL 100 1%	1/4W
R888	1-249-410-11	CARBON 270 5%	1/4W
R889	1-249-417-11	CARBON 1K 5%	1/4W
R890	1-249-417-11	CARBON 1K 5%	1/4W
R891	1-216-489-11	METAL OXIDE 27K 5%	3W F
R892	1-249-417-11	CARBON 1K 5%	1/4W
R893	1-215-453-00	METAL 22K 1%	1/4W
R894	1-249-401-11	CARBON 47 5%	1/4W
R895	1-202-731-00	SOLID 10M 20%	1/2W
R896	1-260-111-11	CARBON 10K 5%	1/2W
R897	1-247-881-00	CARBON 120K 5%	1/4W
R898	1-202-730-00	SOLID 8.2M 20%	1/2W
R899	1-249-429-11	CARBON 10K 5%	1/4W
R903	1-247-735-11	SOLID 47 20%	1/2W
R904	1-215-928-11	METAL OXIDE 68K 5%	3W F
R905	1-215-911-11	METAL OXIDE 100 5%	3W F
<SPARK GAP>			
SG801	1-519-422-11	GAP, SPARK	

REF. NO.	PART NO.	DESCRIPTION	REMARK
<TRANSFORMER>			
T801	 1-437-078-11	TRANSFORMER, HORIZONTAL DRIVE	
T802	1-437-090-00	HDT	
T803	 1-453-121-11	TRANSFORMER ASSY, FLYBACK (NX-2630B4)	

*A-1394-421-A		S BOARD, COMPLETE	

*1-565-514-11		SOCKET, CONNECTOR 2P	
<CAPACITOR>			
C3403	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C3408	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C3409	1-124-477-11	ELECT 47MF	20% 16V
C3411	1-124-034-51	ELECT 33MF	20% 16V
C3442	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C3446	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C3447	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C3448	1-163-023-00	CERAMIC CHIP 0.015MF	10% 50V
C3449	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V
C3450	1-163-109-00	CERAMIC CHIP 47PF	5% 50V
C3451	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3452	1-163-989-11	CERAMIC CHIP 0.033MF	10% 25V
C3453	1-124-477-11	ELECT 47MF	20% 16V
C3454	1-126-162-11	ELECT 3.3MF	20% 50V
C3455	1-126-163-11	ELECT 4.7MF	20% 16V
C3456	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C3457	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C3459	1-124-477-11	ELECT 47MF	20% 16V
C3460	1-163-099-00	CERAMIC CHIP 18PF	5% 50V
C3461	1-163-099-00	CERAMIC CHIP 18PF	5% 50V
C3507	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C3508	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C3509	1-163-139-00	CERAMIC CHIP 820PF	5% 50V
C3515	1-163-121-00	CERAMIC CHIP 150PF	5% 50V
C3540	1-126-157-11	ELECT 10MF	20% 16V
<DIODE>			
D3444	8-719-404-46	DIODE MA110	
<IC>			
IC3401	8-759-403-44	IC MN1280-S	
IC3402	8-759-070-42	IC M37201M6-A18PF	
IC3441	8-759-982-21	IC RC78L05A	
IC3442	8-759-084-12	IC LA7945	
IC3443	8-759-158-03	IC LC7458A-02	
IC3444	8-759-403-44	IC MN1280-S	
<COIL>			
L3401	1-408-421-00	INDUCTOR 100UH	
L3461	1-408-409-00	INDUCTOR 10UH	
L3462	1-408-421-00	INDUCTOR 100UH	
<TRANSISTOR>			
Q3441	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q3444	8-729-903-10	TRANSISTOR FMW1	



REF. NO.	PART NO.	DESCRIPTION	REMARK
<RESISTOR>			
R3401	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R3402	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R3403	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R3404	1-216-033-00	METAL GLAZE 220 5%	1/10W
R3405	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R3406	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R3407	1-216-033-00	METAL GLAZE 220 5%	1/10W
R3408	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R3409	1-216-033-00	METAL GLAZE 220 5%	1/10W
R3441	1-216-025-00	METAL GLAZE 100 5%	1/10W
R3442	1-216-041-00	METAL GLAZE 470 5%	1/10W
R3443	1-216-041-00	METAL GLAZE 470 5%	1/10W
R3444	1-216-077-00	METAL GLAZE 15K 5%	1/10W
R3445	1-216-689-11	METAL GLAZE 39K 5%	1/10W
R3446	1-216-085-00	METAL GLAZE 33K 5%	1/10W
R3449	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R3450	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R3451	1-216-093-00	METAL GLAZE 68K 5%	1/10W
R3452	1-216-079-00	METAL GLAZE 18K 5%	1/10W
R3453	1-216-679-11	METAL CHIP 15K 0.50%	1/10W
R3454	1-216-037-00	METAL GLAZE 330 5%	1/10W
R3455	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R3456	1-216-077-00	METAL GLAZE 15K 5%	1/10W
R3463	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R3464	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R3465	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R3472	1-216-091-00	METAL GLAZE 56K 5%	1/10W
R3473	1-216-025-00	METAL GLAZE 100 5%	1/10W
R3474	1-216-295-00	METAL GLAZE 0 5%	1/10W
R3504	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R3509	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R3511	1-216-025-00	METAL GLAZE 100 5%	1/10W
R3512	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W
R3513	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W
R3514	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W
R3519	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R3520	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R3521	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R3525	1-216-295-00	METAL GLAZE 0 5%	1/10W
R3526	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R3528	1-216-295-00	METAL GLAZE 0 5%	1/10W
R3529	1-216-295-00	METAL GLAZE 0 5%	1/10W
R3530	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R3531	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R3532	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R3535	1-216-033-00	METAL GLAZE 220 5%	1/10W
R3537	1-216-295-00	METAL GLAZE 0 5%	1/10W
R3540	1-216-073-00	METAL GLAZE 10K 5%	1/10W
<CONNECTOR>			
S42	*1-568-378-21	PIN, CONNECTOR 3P	
S43	*1-564-508-11	PLUG, CONNECTOR 5P	
S45	*1-564-511-71	PLUG, CONNECTOR 8P	
S46	*1-564-506-11	PLUG, CONNECTOR 3P	
S47	*1-564-506-11	PLUG, CONNECTOR 3P	
<CRYSTAL>			
X3401	1-577-082-11	VIBRATOR, CERAMIC	
X3441	1-577-364-11	VIBRATOR, CERAMIC	

REF. NO.	PART NO.	DESCRIPTION	REMARK

	*A-1394-422-A	U BOARD, COMPLETE	*****
<CAPACITOR>			
C1004	1-102-125-00	CERAMIC 0.0047MF	10% 50V
C1005	1-126-301-11	ELECT 1MF	20% 50V
C1006	1-164-096-11	CERAMIC 0.01MF	50V
C1007	1-124-598-11	ELECT 22MF	20% 25V
C1008	1-124-598-11	ELECT 22MF	20% 25V
C1010	1-124-465-00	ELECT 0.47MF	20% 50V
C1011	1-124-465-00	ELECT 0.47MF	20% 50V
C1012	1-124-465-00	ELECT 0.47MF	20% 50V
C1013	1-102-125-00	CERAMIC 0.0047MF	10% 50V
C1014	1-126-163-11	ELECT 4.7MF	20% 50V
C1016	1-126-163-11	ELECT 4.7MF	20% 50V
C1018	1-126-301-11	ELECT 1MF	20% 50V
C1020	1-124-242-00	ELECT 33MF	20% 25V
C1021	1-124-465-00	ELECT 0.47MF	20% 50V
C1022	1-124-242-00	ELECT 33MF	20% 25V
C1026	1-102-949-00	CERAMIC 12PF	5% 50V
C1027	1-102-949-00	CERAMIC 12PF	5% 50V
C1028	1-124-242-00	ELECT 33MF	20% 25V
C1029	1-124-282-00	ELECT 22MF	20% 16V
C1030	1-124-478-11	ELECT 100MF	20% 25V
C1031	1-102-963-00	CERAMIC 33PF	5% 50V
C1033	1-124-598-11	ELECT 22MF	20% 25V
C1034	1-124-282-00	ELECT 22MF	20% 16V
C1036	1-124-282-00	ELECT 22MF	20% 16V
C1037	1-124-282-00	ELECT 22MF	20% 16V
C1039	1-124-478-11	ELECT 100MF	20% 25V
C1047	1-124-465-00	ELECT 0.47MF	20% 50V
C1048	1-126-301-11	ELECT 1MF	20% 50V
C1049	1-124-598-11	ELECT 22MF	20% 25V
C1051	1-124-465-00	ELECT 0.47MF	20% 50V
C1055	1-124-589-11	ELECT 47MF	20% 16V
C1056	1-124-499-11	ELECT 1MF	20% 50V
C1057	1-124-768-11	ELECT 4.7MF	20% 50V
C1059	1-124-499-11	ELECT 1MF	20% 50V
C1060	1-124-499-11	ELECT 1MF	20% 50V
C1061	1-124-499-11	ELECT 1MF	20% 50V
C1062	1-102-129-00	CERAMIC 0.01MF	10% 50V
C1063	1-124-768-11	ELECT 4.7MF	20% 50V
C1066	1-126-101-11	ELECT 100MF	20% 16V
<BLOCK>			
CM1002	1-466-162-31	BLOCK, COM FILTER (CFB-4)	
<DIODE>			
D1005	8-719-110-36	DIODE RD13ES-B2	
D1009	8-719-110-36	DIODE RD13ES-B2	
D1010	8-719-110-36	DIODE RD13ES-B2	
D1011	8-719-110-36	DIODE RD13ES-B2	
D1012	8-719-110-36	DIODE RD13ES-B2	
D1013	8-719-110-36	DIODE RD13ES-B2	
D1017	8-719-110-36	DIODE RD13ES-B2	
D1018	8-719-110-36	DIODE RD13ES-B2	
D1019	8-719-110-36	DIODE RD13ES-B2	
D1020	8-719-109-66	DIODE RD3.3ES-B2	
D1021	8-719-109-66	DIODE RD3.3ES-B2	

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

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by Δ in this manual 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.

KP-41EXR96
RM-Y112A

UT

REF. NO.	PART NO.	DESCRIPTION	REMARK
C1168	1-126-301-11	ELECT 1MF	20% 50V
C1199	1-102-129-00	CERAMIC 0.01MF	10% 50V
C1200	1-102-129-00	CERAMIC 0.01MF	10% 50V
<DIODE>			
D1152	8-719-110-36	DIODE RD13ES-B2	
D1158	8-719-110-36	DIODE RD13ES-B2	
D1159	8-719-110-36	DIODE RD13ES-B2	
D1160	8-719-110-36	DIODE RD13ES-B2	
D1163	8-719-110-36	DIODE RD13ES-B2	
D1164	8-719-110-36	DIODE RD13ES-B2	
D1165	8-719-110-36	DIODE RD13ES-B2	
D1166	8-719-110-36	DIODE RD13ES-B2	
D1167	8-719-110-36	DIODE RD13ES-B2	
D1168	8-719-110-36	DIODE RD13ES-B2	
D1169	8-719-110-36	DIODE RD13ES-B2	
D1170	8-719-110-36	DIODE RD13ES-B2	
<JACK>			
J1001	1-537-187-11	TERMINAL, PUSH (4P)	
J1003	1-573-970-11	BLOCK, (S) TERMINAL	
J1004	1-695-049-11	BLOCK, (S) TERMINAL	
J1005	1-695-054-11	JACK BLOCK, PIN	
J1006	1-573-970-11	BLOCK, (S) TERMINAL	
J1007	1-573-969-11	JACK BLOCK, PIN	
J1008	1-573-969-11	JACK BLOCK, PIN	
<RESISTOR>			
R1153	1-249-403-11	CARBON 68	5% 1/4W
R1164	1-247-895-00	CARBON 470K	5% 1/4W
R1165	1-247-895-00	CARBON 470K	5% 1/4W
R1166	1-247-895-00	CARBON 470K	5% 1/4W
R1167	1-247-895-00	CARBON 470K	5% 1/4W
R1168	1-247-895-00	CARBON 470K	5% 1/4W
R1169	1-249-403-11	CARBON 68	5% 1/4W
R1170	1-249-403-11	CARBON 68	5% 1/4W
R1171	1-247-895-00	CARBON 470K	5% 1/4W
R1172	1-247-895-00	CARBON 470K	5% 1/4W
R1173	1-247-804-11	CARBON 75	5% 1/4W
R1174	1-247-895-00	CARBON 470K	5% 1/4W
R1175	1-247-895-00	CARBON 470K	5% 1/4W
R1176	1-247-804-11	CARBON 75	5% 1/4W
R1178	1-247-895-00	CARBON 470K	5% 1/4W
R1179	1-247-895-00	CARBON 470K	5% 1/4W
R1180	1-247-804-11	CARBON 75	5% 1/4W
R1181	1-247-804-11	CARBON 75	5% 1/4W
R1183	1-247-895-00	CARBON 470K	5% 1/4W
R1184	1-247-895-00	CARBON 470K	5% 1/4W
R1185	1-247-895-00	CARBON 470K	5% 1/4W
R1186	1-247-895-00	CARBON 470K	5% 1/4W
R1188	1-247-804-11	CARBON 75	5% 1/4W
R1191	1-249-425-11	CARBON 4.7K	5% 1/4W
R1192	1-249-425-11	CARBON 4.7K	5% 1/4W
R1193	1-249-425-11	CARBON 4.7K	5% 1/4W
R1194	1-249-425-11	CARBON 4.7K	5% 1/4W
R1196	1-249-426-11	CARBON 5.6K	5% 1/4W
<SWITCH>			
S1150	1-572-198-11	SWITCH, KEYBOARD	

REF. NO.	PART NO.	DESCRIPTION	REMARK
<CONNECTOR>			
UT11	*1-564-519-11	PLUG, CONNECTOR 4P	
UT22	*1-566-941-11	CONNECTOR, HINGE (TAB) 30P	
UT23	*1-566-641-11	CONNECTOR, HINGE (TAB) 18P	
UT35	*1-564-518-11	PLUG, CONNECTOR 3P	

MISCELLANEOUS			

Δ 1-241-744-11		RESISTOR ASSY (HIGH-VOLTAGE)	
Δ 1-451-396-21		DEFLECTION YOKE (Y936PA)	
Δ 1-452-443-13		NECK ASSY, PICTURE TUBE (NA367)	
Δ 1-453-108-11		DC BLOCK, HIGH-VOLTAGE	
1-544-768-11		SPEAKER (13CM) (COAXIAL)	
*1-555-110-00		CABLE, PIN	
1-561-306-00		JACK, PIN (F)	
1-574-590-31		LEAD ASSY, HIGH-VOLTAGE	
Δ 1-696-002-12		CORD, POWER (WITH NOISE FILTER)	
V902 Δ 8-736-631-05		PICTURE TUBE (SD-249 (G))	
V903 Δ 8-736-632-05		PICTURE TUBE (SD-249 (B))	
V901 Δ 8-736-633-05		PICTURE TUBE (SD-249 (R))	
Δ R900	Δ	METAL FILM	1/4W
Δ R901	Δ	METAL FILM	1/4W
Δ R902	Δ	METAL FILM	1/4W

ACCESSORIES AND PACKING MATERIALS			

*3-704-356-01		SHEET (STANDARD), PROTECTION	
3-756-987-21		MANUAL, INSTRUCTION	
3-756-987-31		MANUAL, INSTRUCTION (KP-41EXR96(C))	
3-756-987-41		MANUAL, INSTRUCTION (KP-41EXR96(U))	
*4-030-895-01		JOINT	
*4-036-102-01		CUSHION (UPPER) (ASSY)	
*4-036-106-01		INDIVIDUAL CARTON	
*4-036-107-01		TRAY	
*4-036-108-01		CUSHION (LOWER) (ASSY)	
*4-381-155-01		BAG, PROTECTION	
REMOTE COMMANDER			
1-693-114-21		REMOTE COMMANDER (RM-Y112A)	
9-902 719-01		COVER (FOR RM-Y112A)	
9-998-214-01		COVER, BATTERY (FOR RM-Y112A)	

