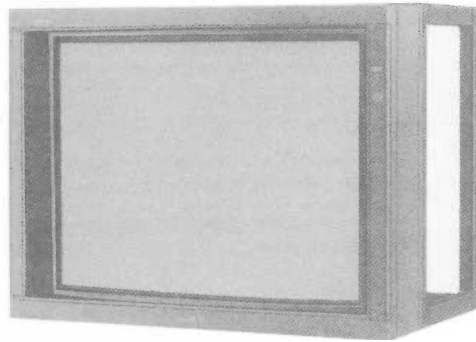


PVM-3230

RM-785

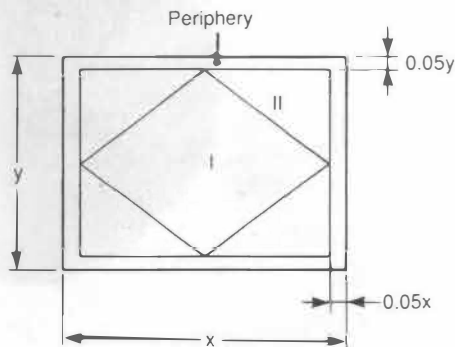
SERVICE MANUAL

US Model
Canadian Model
Chassis No. SCC-D39A-A



Note: The service manuals for RM-785 have been issued separately.

Color system	NTSC system
Picture tube	32-inch Trinitron tube Approx. 80 cm picture measured diagonally, 110-degree deflection, AG pitch 0.9 mm
Resolution	VIDEO inputs: 650 TV lines S VIDEO inputs: 650 TV lines RGB inputs: 640 x 200 dots (2000 characters)
Color temperature	9300 K
Horizontal linearity	Less than $\pm 8\%$
Vertical linearity	Less than $\pm 7\%$
Line pull range	Horizontal: ± 500 Hz Vertical: -8 Hz
Overscan of the picture	Less than $+7\%$
Input return loss	More than 35 dB up to 4 MHz
Zooming	Within 5%
Convergence	Zone I: within 1.3 mm Zone II: within 1.7 mm Periphery: within 2.2 mm



SPECIFICATIONS

Inputs

Video input:	LINE A/B: BNC connector composite video, 1 Vp-p ± 6 dB, sync negative automatic 75-ohm termination VTR: 8-pin connector 1 Vp-p ± 6 dB, sync negative, 75-ohm terminated
S video input:	LINE A/B: 4-pin MINI DIN connector Y (luminance signal): 1 Vp-p ± 6 dB, sync negative C (chrominance signal): 0.286 Vp-p $+6$ dB (burst signal) automatic 75-ohm termination
RGB input:	ANALOG RGB: BNC connector R,B 0.7 Vp-p ± 6 dB G/Sync on G 0.7 Vp-p 1 Vp-p, sync negative automatic 75-ohm termination DIGITAL RGB: TTL D-sub 9-pin
Audio input:	LINE A/B: phono jack, -5 dBs, high impedance (stereo) VTR: 8-pin connector, -5 dBs, high impedance (monaural) ANALOG RGB: phono jack, -5 dBs, high impedance (stereo) DIGITAL RGB: phono jack, -5 dBs, high impedance (monaural)
External sync input:	BNC connector 4.0 Vp-p ± 6 dB, negative automatic 75-ohm termination
CONTROL S input:	minijack, 5 Vp-p

— Continued on next page —

TRINITRON® COLOR VIDEO MONITOR
SONY®



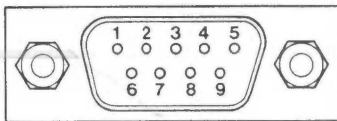
Outputs

- Video output: LINE A/B: BNC connector, loop-through
- S Video output: LINE A/B: 4-pin MINI DIN connector, loop-through
- RGB output: ANALOG RGB: BNC connector, loop-through
- Audio output: LINE A/B: phono jack, loop-through
ANALOG RGB: phono jack, loop-through
- External sync output: BNC connector, loop-through
- CONTROL S output: minijack
- Speaker output: 8 – 16 ohms (15 W + 15 W)
- Power requirements: 120 V AC, 50/60 Hz
- Power consumption: **3.0 A**
- Dimensions: Approx. 814 × 629 × 595 mm (w/h/d)
(32¹/₈ × 24⁵/₈ × 23³/₈ inches)
- Weight: Approx. 84kg (185 lb 3 oz)
- Supplied accessories: Programmable Remote Commander RM-785 (1)
Size AA batteries (4)
- Optional accessories: SS-X6A speaker system
APM-X5A speaker system

Design and specifications are subject to change without notice.

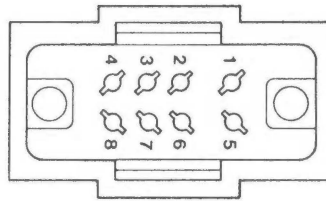
Pin assignment

DIGITAL RGB connector (9-pin)



Pin No.	Signal	Signal level
1	GND (ground)	GND
2	GND for the signal	GND
3	Red input	Positive polarity (TTL level)
4	Green input	↑
5	Blue input	↑
6	Intensity	↑
7	NC (no connection)	—
8	H-SYNC	Positive or negative polarity (TTL level)
9	V-SYNC	Same polarity as H-SYNC (TTL level)

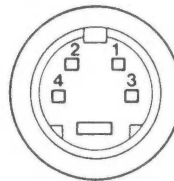
VTR connector (8-pin)



Pin No.	Signal	Description
1	Audio input	-5 dBs, high input impedance (more than 47 kilohms)
2	Video inpt	Composite 1 Vp-p, sync negative, 75 ohms
3	NC	—
4	NC	—
5	GND	GND
6	GND	GND
7	NC	—
8	NC	—

S VIDEO

(Y/C separate) IN connector (4-pin)



Pin No.	Signal	Description
1	Y-input	1 Vp-p, sync negative, 75 ohms
2	CHROMA sub-carrier-input	0.286 Vp-p, burst 75 ohms
3	GND for Y-input	GND
4	GND for CHROMA-input	GND

Timing chart

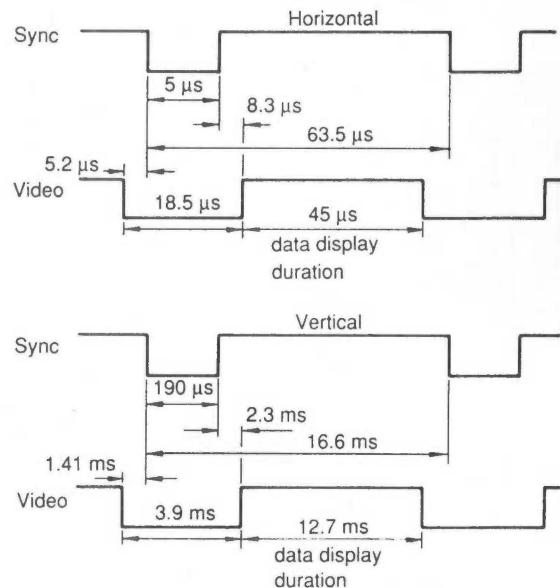


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WARNING !!

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


SAFETY-RELATED COMPONENT WARNING !!

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

ATTENTION!!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÂSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÂSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MARQUE  SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIÈCES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÈCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIÉS DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

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.

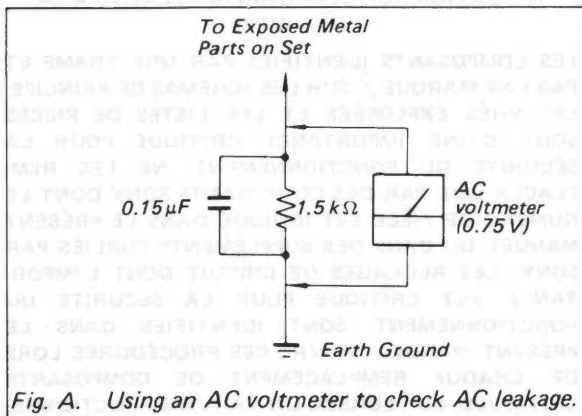


Fig. A. Using an AC voltmeter to check AC leakage.

LEAKAGE TEST

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

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 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 cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

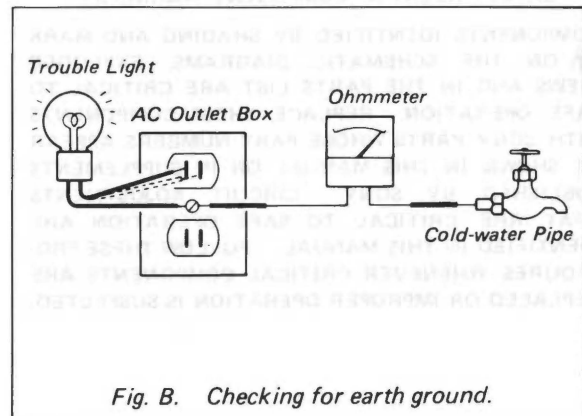
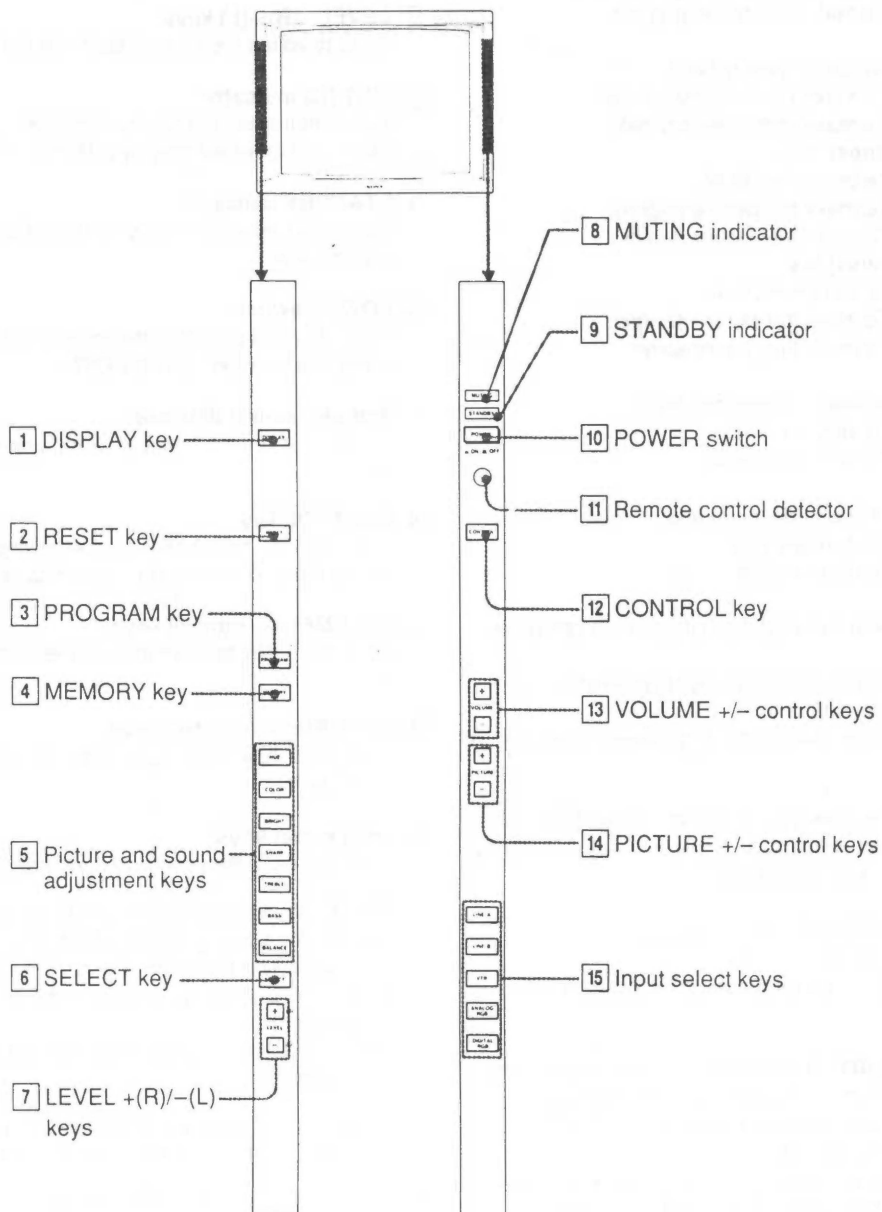


Fig. B. Checking for earth ground.

SECTION 1 GENERAL

1-1. LOCATION AND FUNCTION OF CONTROLS

Front Panel



After the power is turned on, press the **CONTROL** key to illuminate the control keys or indicators.

The following control keys are effective only when **MANUAL CONTROL** switch on the rear panel is set to **ON**.

1 DISPLAY key

Press repeatedly to display on the screen the current level of each control.

Press once to display: PICTURE/HUE/COLOR/BRIGHT/
SHARP/VOLUME/TREBLE/BASS/BALANCE

Press twice to display: SYNC/VNR/NOTCH/D.COL/
INPUT ID

Press again to make the on-screen display disappear.

2 RESET key

Press to reset the level of HUE/COLOR/BRIGHT/
SHARP/TREBLE/BASS/BALANCE to the standard
setting. "STD" is displayed on the screen. RESET does
not function on PICTURE and VOLUME levels.

3 PROGRAM key

Used for storing the adjusted picture and sound levels in
a program memory.

Press to recall the stored program.

4 MEMORY key

Press to store the data in a program.

5 Picture and sound adjustment keys

Press to adjust the picture and sound level. To adjust each item, first press the desired key, then change the level with the LEVEL +(R)/-(L) keys.

HUE* key

Press to adjust the hue level.

LEVEL +(R): To make skin tones greenish

LEVEL -(L): To make skin tones purplish

COLOR* key

Press to adjust the color intensity level.

LEVEL +(R): To make color intensity vivid

LEVEL -(L): To make color intensity pale

BRIGHT* (brightness) key

Press to adjust the brightness level.

LEVEL +(R): To make the picture brighter

LEVEL -(L): To make the picture darker

SHARP* (sharpness) key

Press to adjust the sharpness level.

LEVEL +(R): To make the picture sharper

LEVEL -(L): To make the picture softer

TREBLE* key

Press to adjust the treble (high tone) level.

LEVEL +(R): To increase treble

LEVEL -(L): To decrease treble

BASS* key

Press to adjust the bass (low tone) level.

LEVEL +(R): To increase bass

LEVEL -(L): To decrease bass

BALANCE* key

Press to adjust the balance of the right and left speakers' output.

LEVEL +(R): To emphasize the right speaker's volume

LEVEL -(L): To emphasize the left speaker's volume

6 SELECT key

Press this button repeatedly until the on-screen display of the item you want to adjust appears.

The display will change as follows:

SYNC → VNR → NOTCH → D. COL

Press LEVEL +(R)/-(L) keys to adjust the selected item.

SYNC

Normally, set to **INT**. The monitor operates on the sync signal provided with the input signal. For ANALOG RGB signals, if a sync signal is provided on the G-signal, the monitor operates on this signal.

Set to **EXT** when operating the monitor on an external sync signal fed through the EXT SYNC connector on the rear panel.

VNR (Video noise reducer)

Normally set to **OFF**. For noise reduction, set the level to **LOW** or **HIGH**.

NOTCH (Notch filter)

Normally set to **OFF**. If dots or stripes appear while watching a picture from a composite video source, set to **ON**.

This control is not effective on the S video input signals.

D.COL (New dynamic color)

Normally set to **ON**, which makes it possible to obtain natural skin tone and "blueish white". To add a touch of red to the white part of the picture, set to **OFF**.

SELECT key is also used for INPUT ID function.

7 LEVEL +(R)/-(L) keys

Used to adjust the level of each control.

8 MUTING indicator

Illuminates while the sound is muted.

Muting is controlled only by a Remote Commander.

9 STANDBY indicator

Illuminates when the power is turned off by the Remote Commander.

10 POWER switch

Press this switch to turn the monitor on (⏻ ON).

Press again to turn it off (⏻ OFF).

11 Remote control detector

The beam from the Remote Commander is received here.

12 CONTROL key

Press this key to illuminate the keys and indicators on the front panel. Press again to extinguish them.

13 VOLUME* +/- control keys

Press the + key to raise the volume or the - key to lower it.

14 PICTURE* +/- control keys

Press the + key to increase picture contrast or - to decrease it.

15 Input select keys

Press to select the program to be monitored.

LINE A : for a signal from the LINE A connectors.

LINE B : for a signal from the LINE B connectors.

VTR : for a signal from the 8-pin VTR connector.

ANALOG RGB : for a signal from the ANALOG RGB connectors.

DIGITAL RGB : for a signal from the DIGITAL RGB connectors.

* The picture and sound adjustment levels are digitally displayed on the screen. Each adjustment has a range as follows:

- HUE/COLOR/BRIGHT/SHARP/TREBLE:
MIN, -30, -29, ..., STD, ..., +30, +31. MAX

- BALANCE:
L MAX, L30, L29, ..., STD, ..., R30, R31, R MAX

- PICTURE/VOLUME:
MIN, 1, 2, ..., 61, 62, MAX

Note

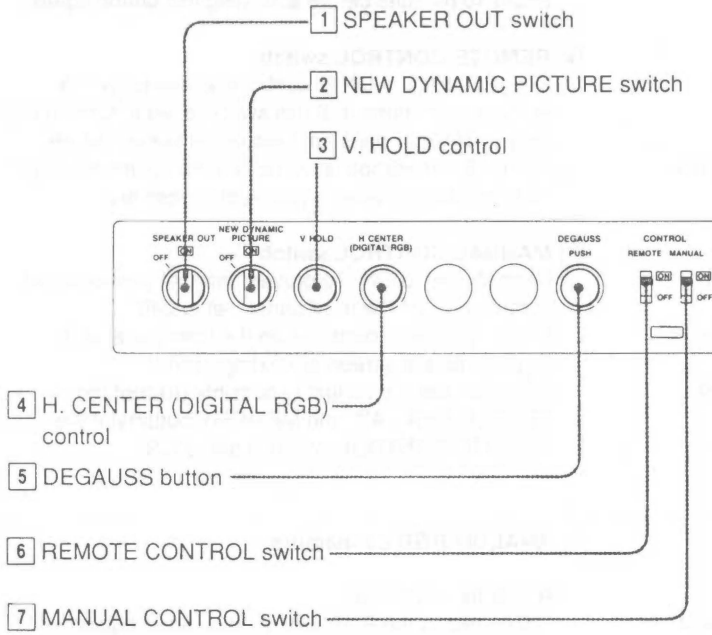
When the input signal is ANALOG RGB, DIGITAL RGB, or S video, the following controls do not function.

ANALOG RGB: HUE, COLOR, SHARP, VNR, NOTCH, and D.COL

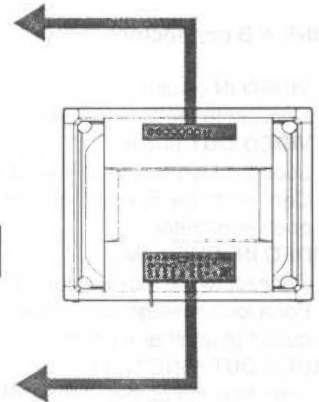
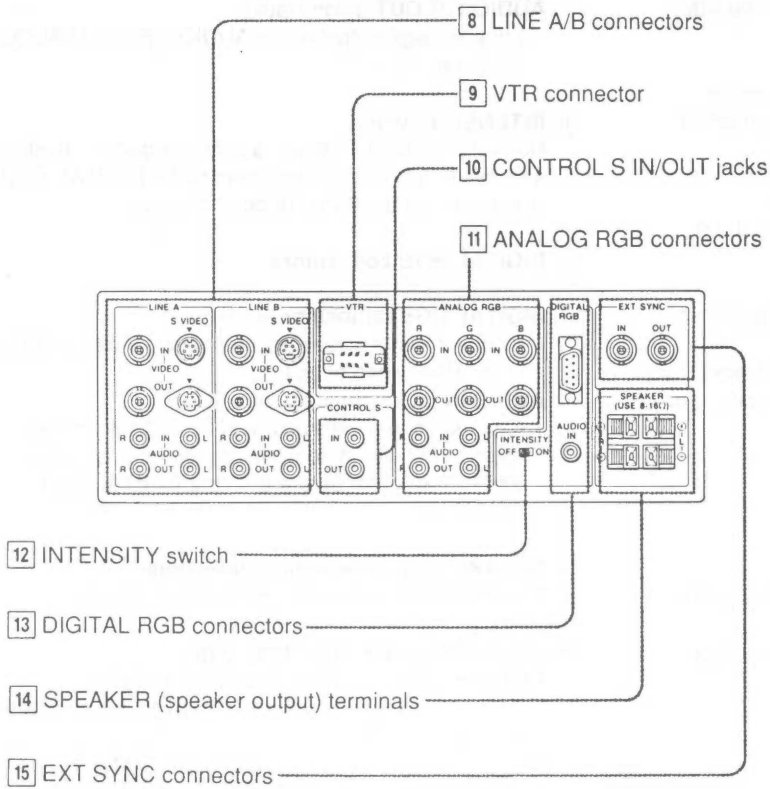
DIGITAL RGB: HUE, COLOR, SHARP, SYNC, VNR, NOTCH, and D.COL

S video: NOTCH

Rear Panel



Connectors



1 SPEAKER OUT switch

Normally set to ON. If this switch is set to OFF, the sound is not output from the speaker output.

2 NEW DYNAMIC PICTURE switch

Normally set to ON for enhanced picture contrast. Set to OFF for less picture contrast and natural reproduction of the detail in dark area. This function is not effective on the RGB input signals.

3 V. HOLD (vertical hold) control

When the picture rolls vertically, correct it with this control.

4 H. CENTER (DIGITAL RGB) (horizontal centering) control

When the picture of DIGITAL RGB input is distorted horizontally, correct it with this control.

5 DEGAUSS button

Push this button to demagnetize the screen. Wait for about 10 minutes before activating this button again.

6 REMOTE CONTROL switch

Set this switch to ON to control the monitor with a Remote Commander. If this switch is set to OFF, remote control detector does not function. However, when control S connection is made, remote control through other monitor or video equipment is possible.

7 MANUAL CONTROL switch

Normally set to ON. To prevent manual control of the control keys on the front panel, set to OFF. In this case, all indications on the front panel and displays on the screen are extinguished. However, remote control is possible (except the SELECT, DISPLAY, and MEMORY buttons) if the REMOTE CONTROL switch is set to ON.

8 LINE A/B connectors

S VIDEO IN (4-pin)

Connect to the S video output of a video equipment.

S VIDEO OUT (4-pin)*

Loop-through output of the S VIDEO OUT connector. Connect to the S video input of a video equipment or another monitor.

VIDEO IN (BNC type)

Connect to the video output of video equipment. For a loop-through connection, connect to the video output of another monitor.

VIDEO OUT (BNC type)*

Loop-through output of the VIDEO IN connector. Connect to the video input of a video equipment or another monitor.

Note

The VIDEO IN connector is disconnected automatically when a cable is connected to the S VIDEO connector.

AUDIO L/R IN (phono jack)

Connect to the audio outputs of a video equipment.

AUDIO L/R OUT (phono jack)

Loop-through outputs of the AUDIO L/R IN jacks. Connect to the audio inputs of a video equipment or another monitor.

9 VTR input connector (8-pin)

Connect to a VTR with an 8-pin connector.

10 CONTROL S IN/OUT jacks (minijack)

Connect to the CONTROL S jacks of a VTR or several monitors. It is then possible to control the system with a single Remote Commander.

11 ANALOG RGB connectors

R/G/B IN (BNC type)

Connect to the RGB outputs of a video equipment.

R/G/B OUT (BNC type)*

Loop-through outputs of the R/G/B/ IN connectors. Connect to the RGB inputs of another monitor.

AUDIO L/R IN (phono jack)

Connect the audio outputs of the equipment connected to the R/G/B IN connectors here.

AUDIO L/R OUT (phono jack)

Loop-through output of the AUDIO L/R IN (ANALOG RGB) jacks.

12 INTENSITY switch

Normally set to OFF. When a microcomputer provided with intensity output is connected to the DIGITAL RGB connector, set to ON for 16-color display.

13 DIGITAL RGB connectors

DIGITAL RGB connector (9-pin)

Connect with a microcomputer having a digital (TTL level) RGB video output.

AUDIO IN jack (monaural)(phono jack)

Connect to the audio output of an audio source to listen to the sound from the connected audio source while viewing the picture from the DIGITAL RGB connector.

14 SPEAKER (speaker output) terminals

Connect to speakers with 8 to 16 ohms impedance.

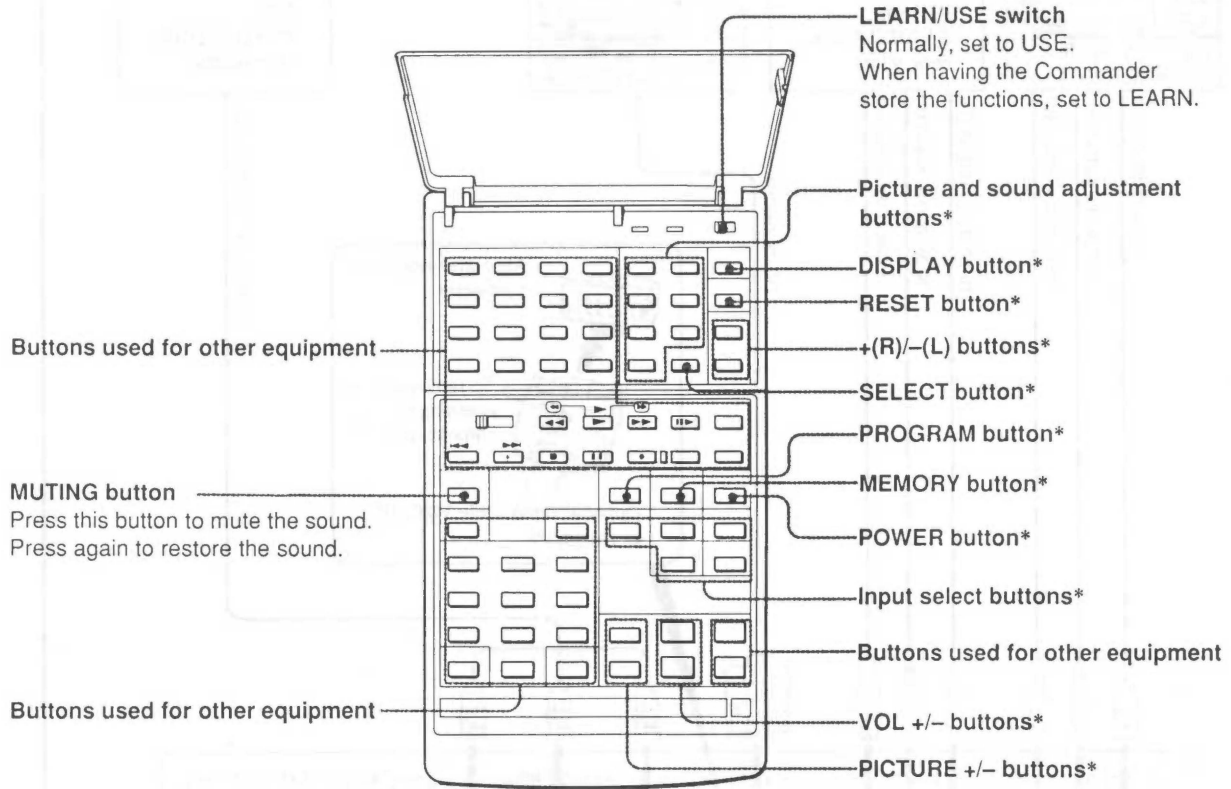
15 EXT SYNC connectors (BNC type)

IN: Connect to the output of a sync generator.

To monitor the sync signal fed through this connector, set SYNC to EXT.

OUT*: Loop-through output of the EXT SYNC IN connector. Connect to the SYNC input of a VTR or a video camera.

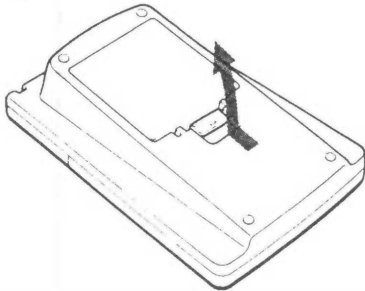
Programmable Remote Commander RM-785



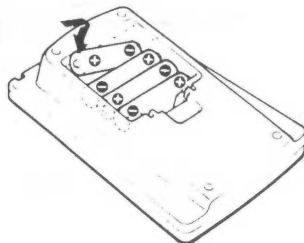
* The functions of these buttons are the same as those on the front panel

Battery Installation

1 Push to open the lid.



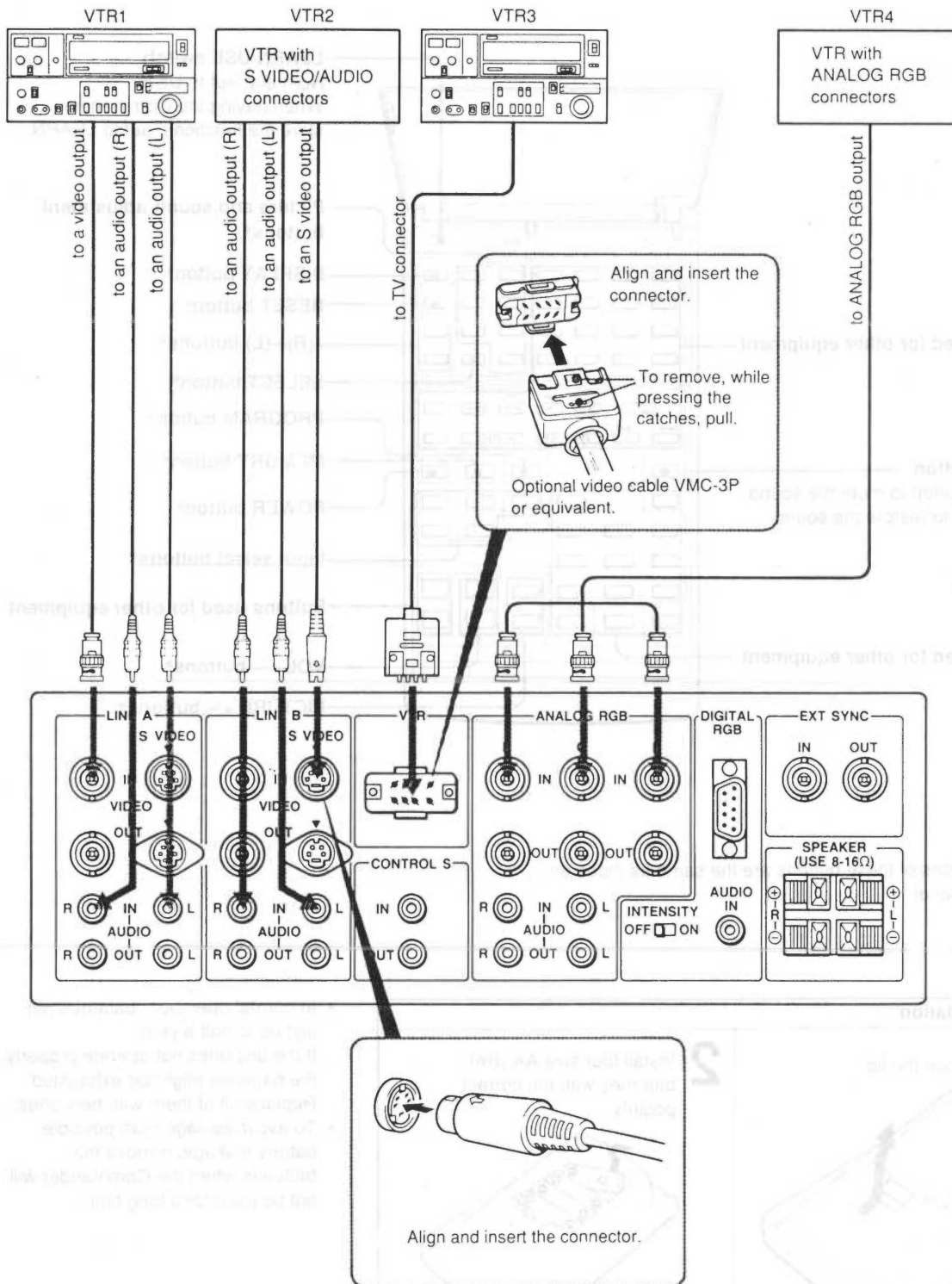
2 Install four size AA (R6) batteries with the correct polarity.



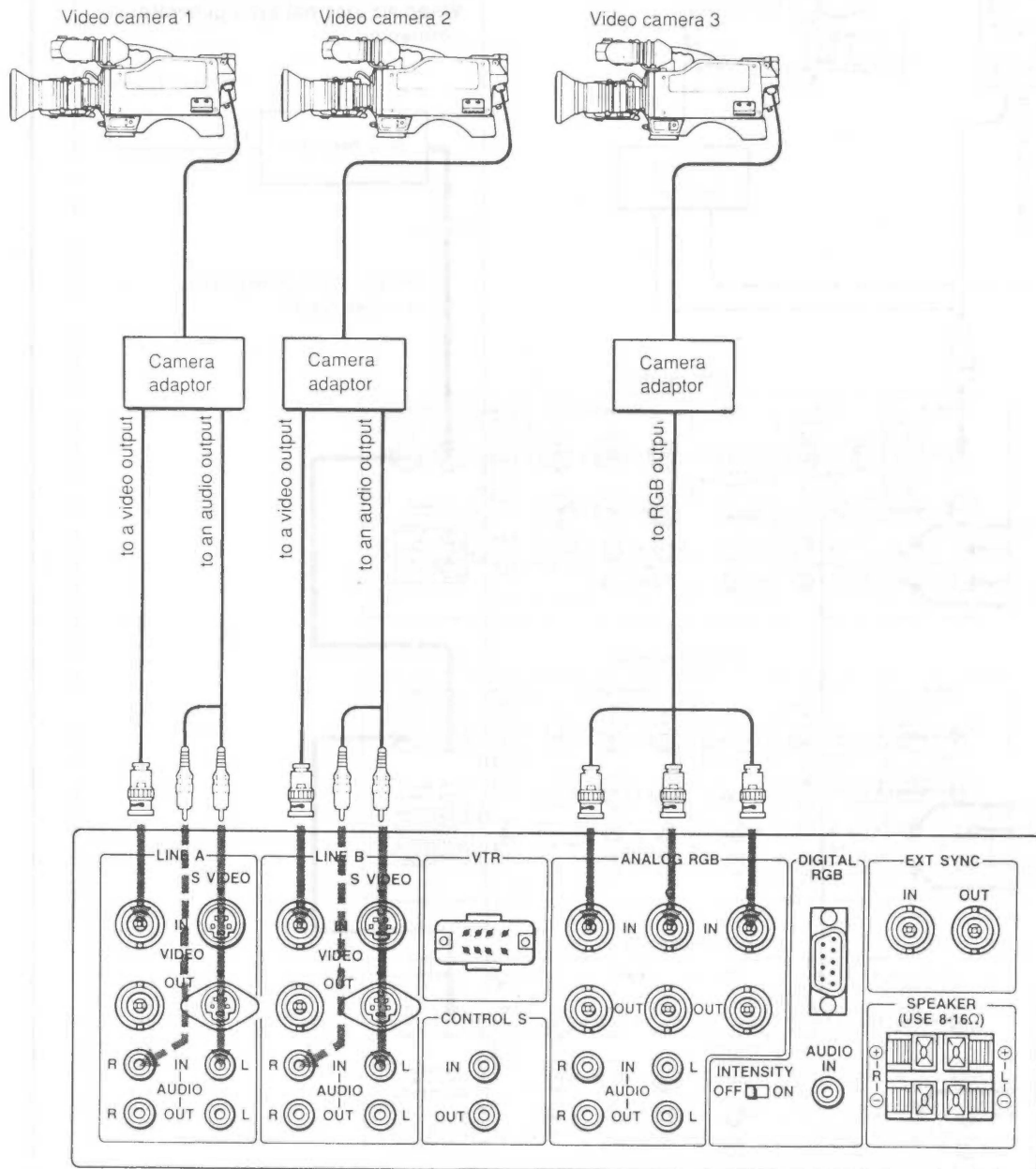
- In normal operation, batteries will last up to half a year. If the unit does not operate properly, the batteries might be exhausted. Replace all of them with new ones.
- To avoid damage from possible battery leakage, remove the batteries when the Commander will not be used for a long time.

1-2. SYSTEM CONNECTIONS

Connecting a VTR

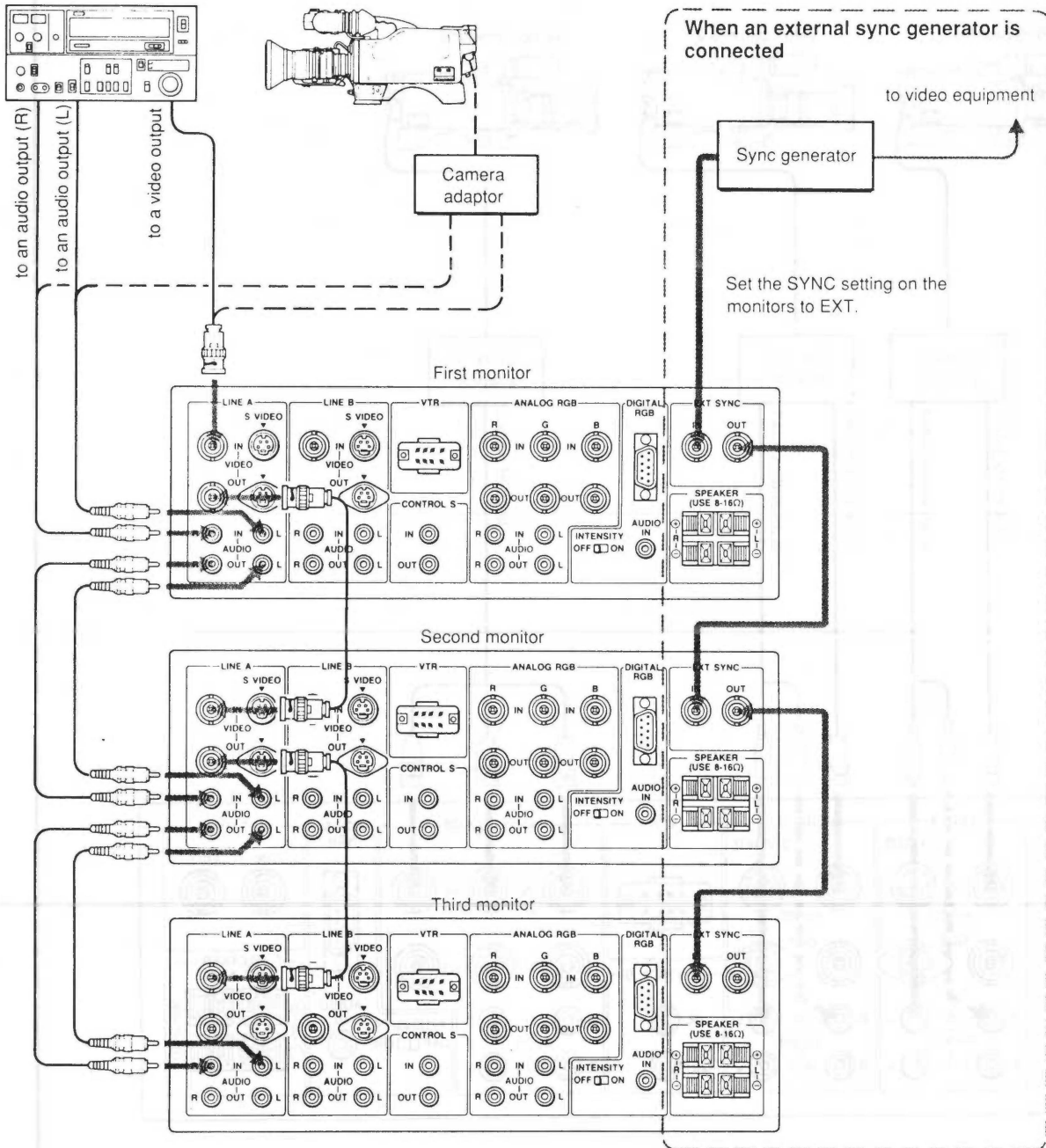


Connecting a Video Camera



Connecting Several Monitors

A loop-through connection is convenient for monitoring the same signal on other monitors. Up to 5 monitors can be connected. It is recommended to use a signal distributor when several monitors are connected.

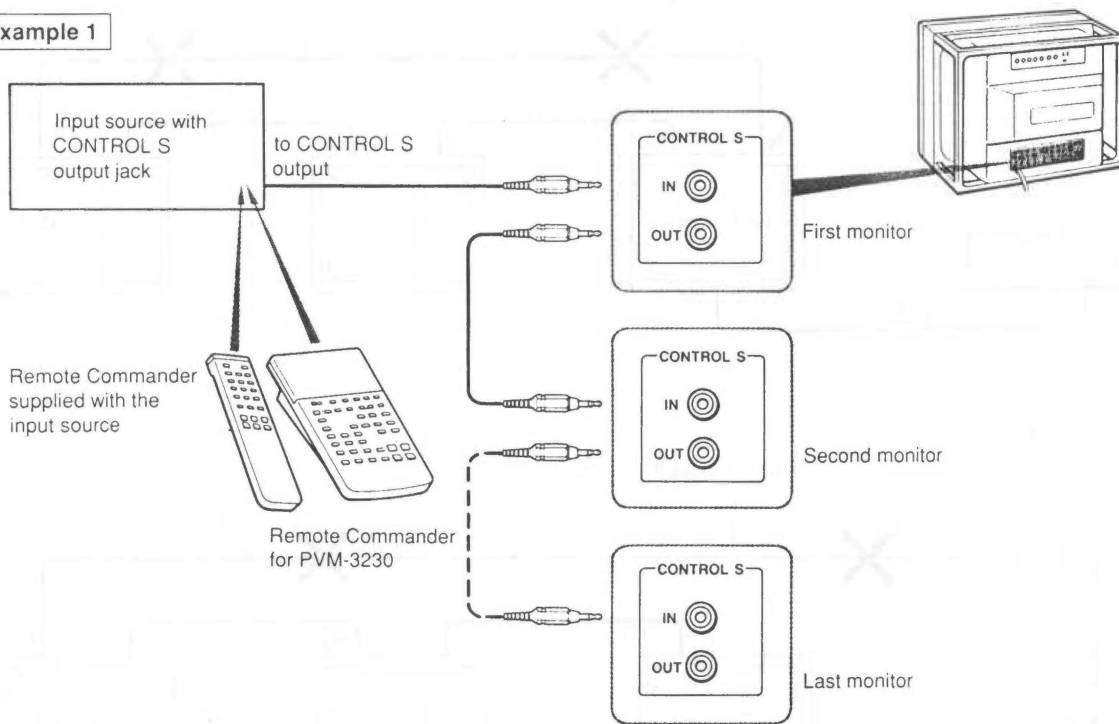


Note on the VIDEO and S VIDEO OUT connector
Be sure to plug in the connector fully into the VIDEO/S VIDEO OUT connector or the input signal may be terminated automatically.

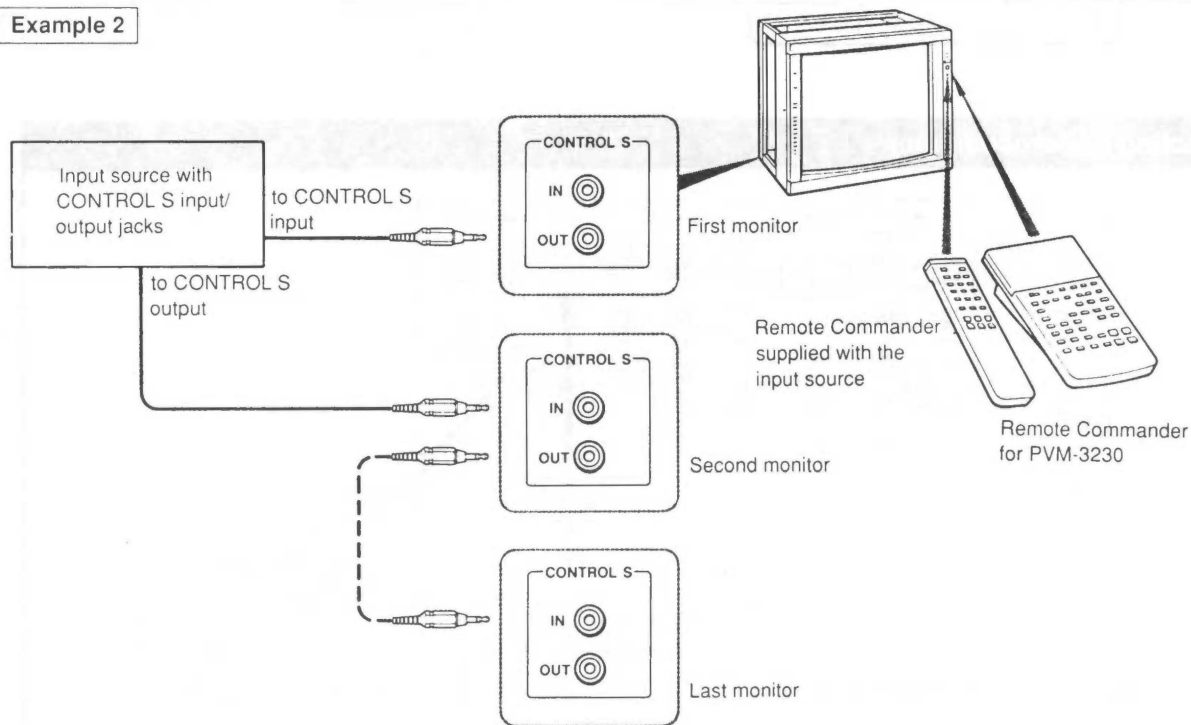
Control S Connection

The following connections allow remote control of several monitors and a VTR through a single monitor or a video equipment.

Example 1



Example 2

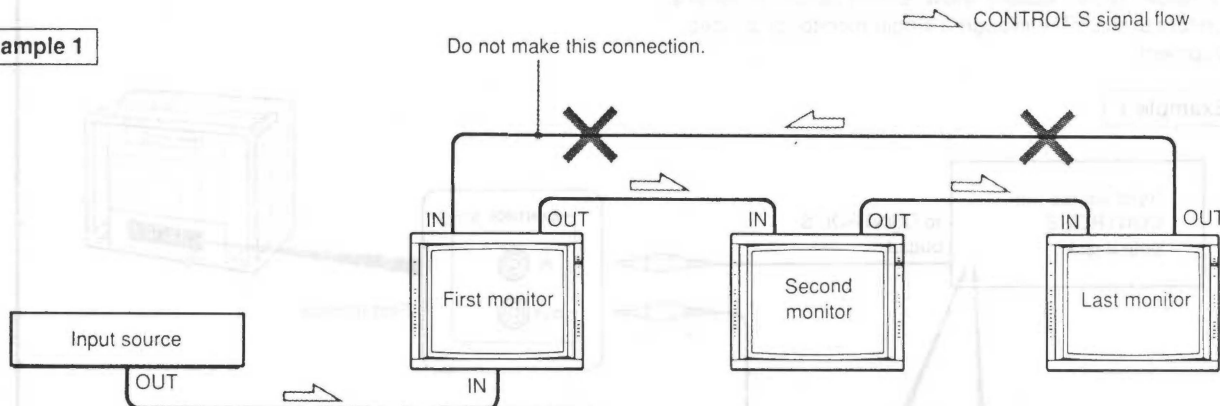


Note

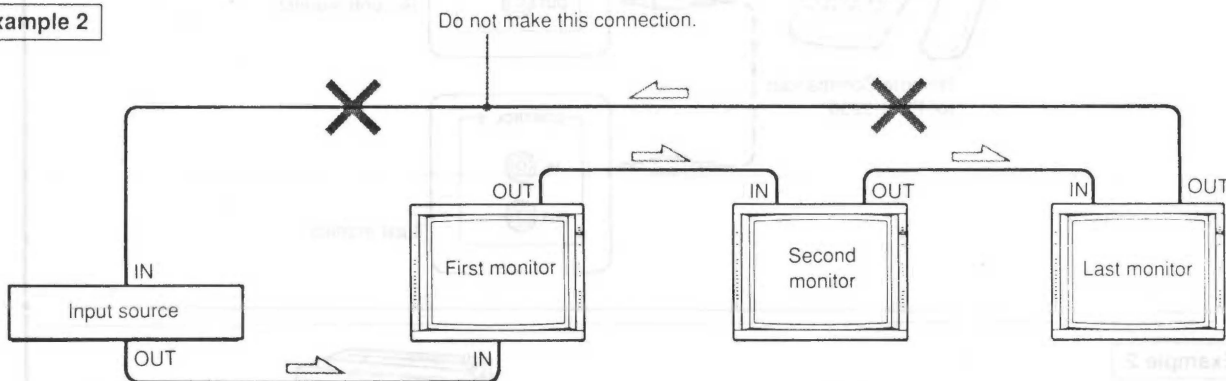
Do not make the following connections.

Control S Connection

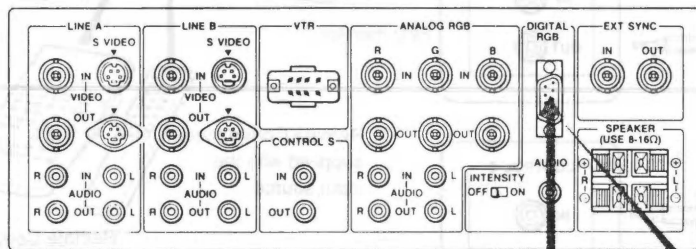
Example 1



Example 2

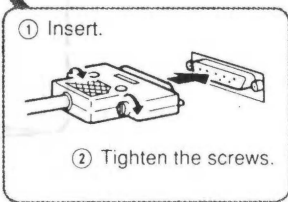
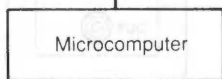


Connecting a Microcomputer



9-pin

to digital RGB output

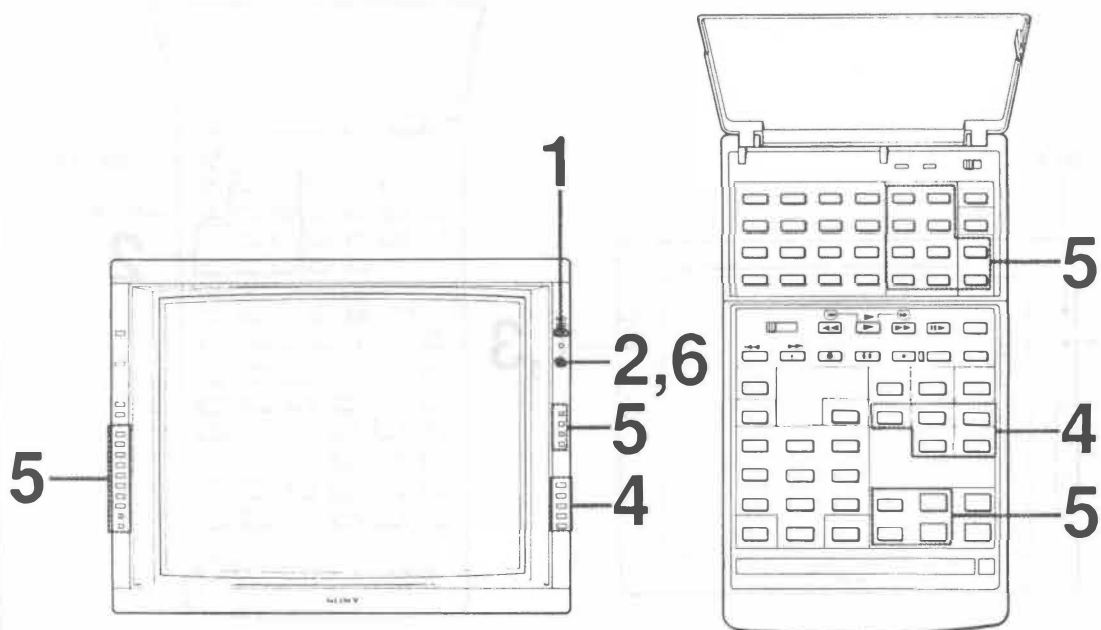


Note

When a microcomputer has only a composite video output connector, connect it to the LINE A or LINE B VIDEO IN connector.

1-3. OPERATION

Displaying the Picture



- 1** Press the POWER switch to turn the power on.
One of the input select key illuminates.
- 2** Press the CONTROL key*.
The illuminated input select key blinks and all the other control keys on the front panel illuminate.
(If the control keys do not illuminate, set the MANUAL CONTROL switch on the rear to ON.)
- 3** Turn on the video equipment.
- 4** Press the desired input select key/button.
The pressed key blinks and the picture from the selected input is displayed on the screen and the sound is heard through the speakers.
- 5** Adjust the picture and sound
- 6** Press the CONTROL key to extinguish the control keys so that only the selected input select key illuminates*.

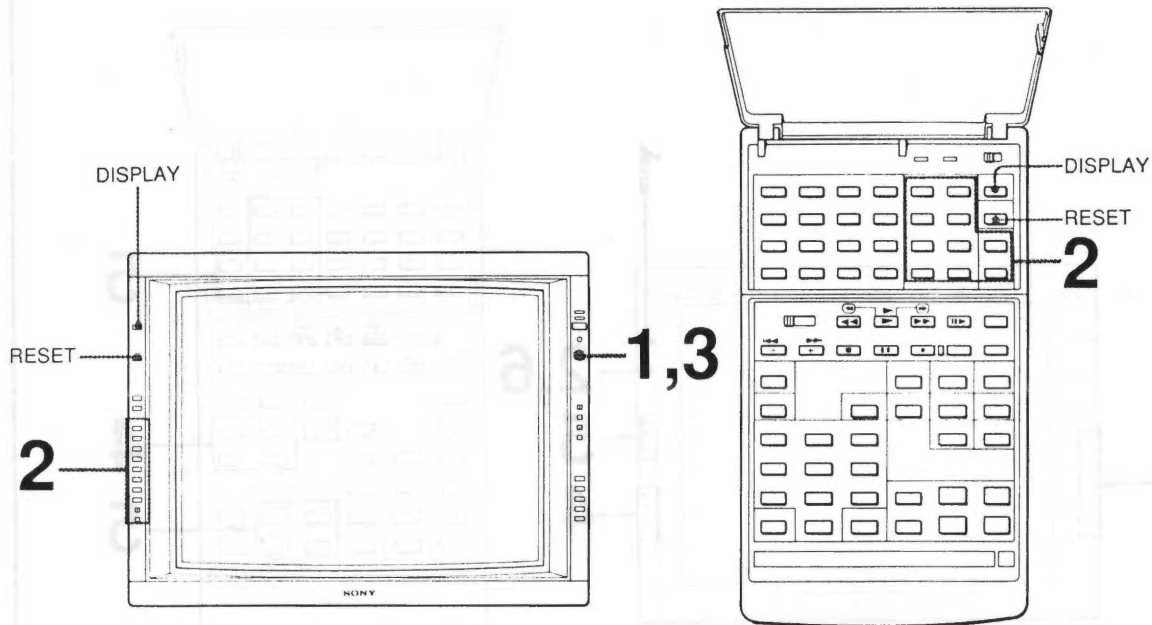
* Not necessary when operating with the Remote Commander.

To turn the power off

Press the POWER button on the Remote Commander to turn off the unit for short periods of time. The STANDBY indicator illuminates.
Turn the power off completely by pressing the POWER switch on the unit if it is not going to be used for a long time.

Note
The color may be unstable for a few seconds after the power is turned on. This is caused by the CRT beam current feedback circuit, and is not a malfunction of the monitor.

Adjusting the Picture and Sound



Operation

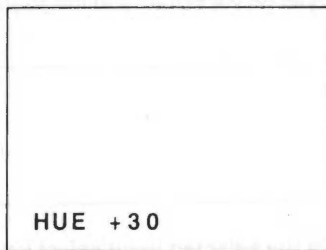
1 Press the CONTROL key.

2 Press the desired item key/button, and then adjust with +(R)/-(L) keys/buttons when adjusting the following items: HUE, COLOR, BRIGHT, SHARP, TREBLE, BASS, BALANCE

Press SELECT key/button repeatedly until the desired item appears, then adjust with LEVEL+(R)/-(L) keys/buttons when adjusting the following items:
SYNC, VNR, NOTCH, D. COL

The on-screen display appears when a key/button for adjustment is pressed.

e.g. When HUE key/button is pressed, the following on-screen display appears.



The on-screen display will disappear in a few seconds.
The item appears again when LEVEL +(R)/-(L) keys/buttons are pressed.*

3 Press the CONTROL key.

* Press the item button first, and then adjust with LEVEL +(R)/-(L) buttons on the Remote Commander when the MANUAL CONTROL switch is set to OFF.

Displaying all adjustment items on the screen

Press the DISPLAY key/button.

The adjustment items and their level appear on the screen.

Press once to display: PICTURE/HUE/COLOR/
BRIGHT/SHARP/
VOLUME/TREBLE/BASS/
BALANCE

PIC	30	VOL	14
HUE	STD	TRE	STD
COL	+28	BAS	+30
BRT	-22	BAL	STD
SHP	STD		

Press twice to display: SYNC/VNR/NOTCH/
D.COL/INPUT ID

SYNC	INT
VNR	OFF
NOTCH	ON
D. COL	OFF
INPUT	ID

Press again to make the on-screen display disappear.

Restoring the factory preset adjustment levels

Press RESET key/button.

The factory preset levels appear on the screen.
(RESET does not function on PICTURE and
VOLUME controls.)

RESET				
PIC	30	VOL	14	
HUE	STD	TRE	STD	
COL	STD	BAS	STD	
BRT	STD	BAL	STD	
SHP	STD			

Storing the Adjusted Picture and Sound Levels

Storing in each input mode

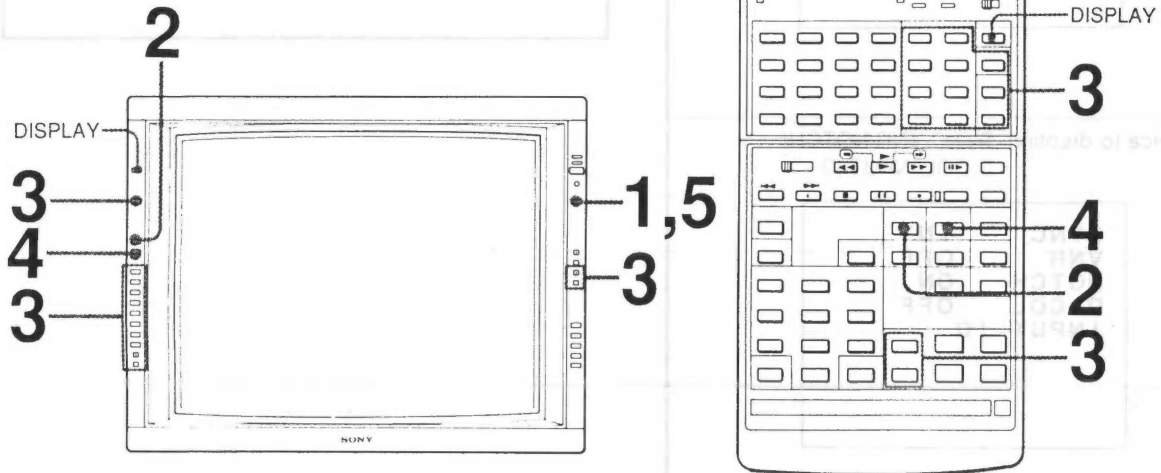
The picture and sound levels will be stored for each input mode (LINE A, LINE B, VTR, ANALOG RGB, or DIGITAL RGB) they were adjusted on.

The adjustment levels will be retained until they are adjusted again.

Storing in a program

Besides storing in each input mode, the adjusted picture and sound levels can be stored in up to 4 programs.

A program can be recalled and it is effective in any input mode.



1 Press the CONTROL key to illuminate the control keys on the front panel.

2 Press the PROGRAM key/button repeatedly until the PROGRAM number in which to store the picture and sound levels appears.

Program number will change as follows:

PROGRAM 1 → PROGRAM 2 → PROGRAM 3 → PROGRAM 4

Note

When there is no indication on the screen, "PROGRAM 1" always appears first whenever the PROGRAM key/button is pressed.



3 Adjust the picture and the sound levels.

The following are the items which can be stored in a program.

PICTURE	SYNC
HUE	VNR
COLOR	NOTCH
BRIGHT	D.COL
SHARP	
TREBLE	
BASS	
BALANCE	

To check the current level of each control, press DISPLAY key/button.

4 Press the MEMORY key/button. PROGRAM indication turns red. After a few seconds, the indication will turn back to white, which confirms that storing was successfully completed.

5 Press the CONTROL key.

To change the programmed adjustment levels

Press the PROGRAM key/button to choose the program number to be changed. Readjust the picture and sound levels. Be sure to press MEMORY after the adjustment is done.

To restore the original picture and sound levels

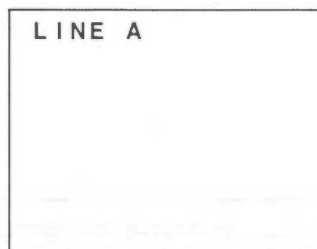
Press the selected input select key/button again. The levels are also restored when the power is turned off completely and then on with the POWER switch on the unit.

To check the programmed adjustment levels

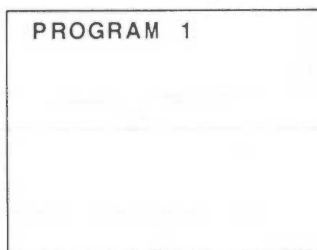
Press the PROGRAM key/button to select the desired program number, then press the DISPLAY key/button.

Using the stored program

1 Display the desired input source by pressing one of the input select keys/buttons.



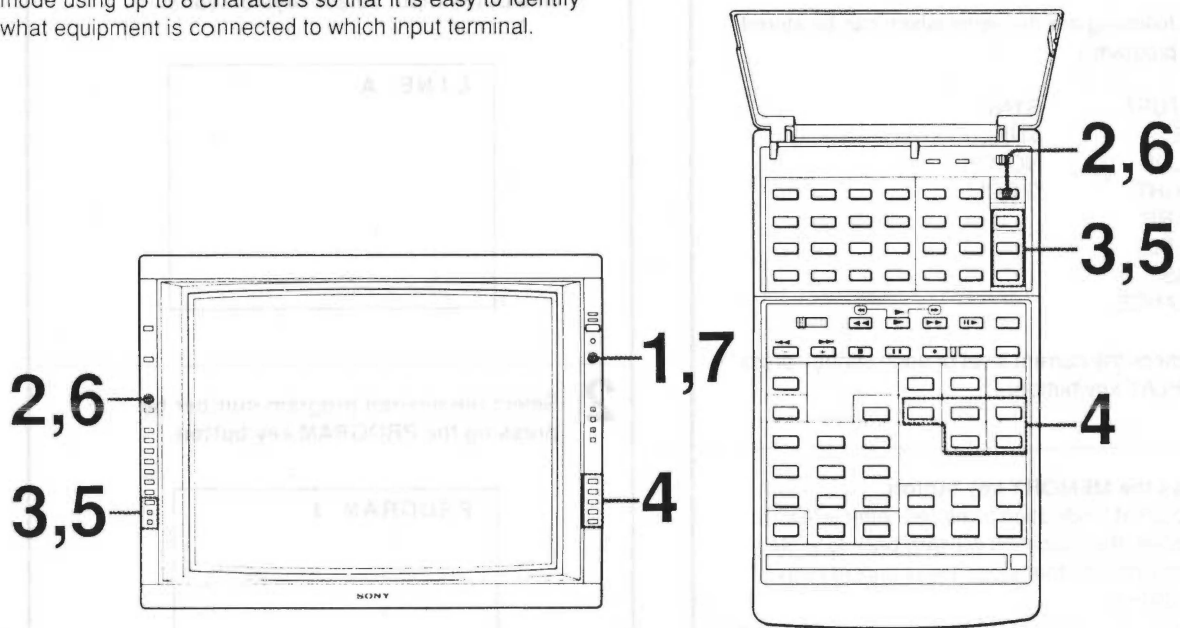
2 Select the desired program number by pressing the PROGRAM key/button.



The programmed adjustment is done.

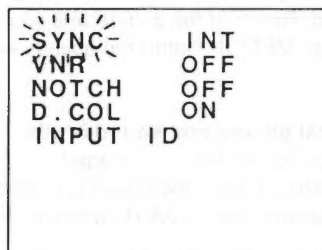
Rewriting the Indication for Each Input Mode-INPUT ID Function

You can rewrite the on-screen indication for each input mode using up to 8 characters so that it is easy to identify what equipment is connected to which input terminal.

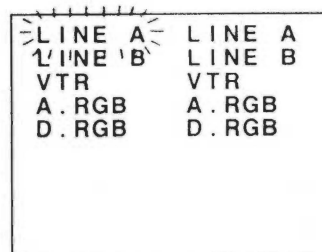


1 Press the CONTROL key to illuminate the control keys on the front panel.

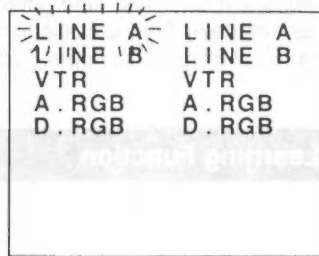
2 Press the DISPLAY button/key twice.
One of the items blinks.



3 Press the SELECT button/key repeatedly until "INPUT ID" blinks, and press the LEVEL +(R) button/key.

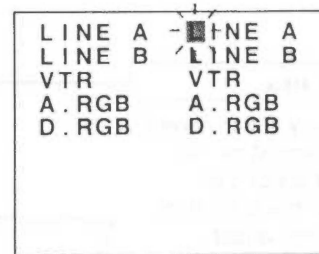


- 4** Select the input mode you want to rewrite by pressing one of the input select keys/buttons. The selected input mode blinks.



- 5** Press the SELECT key/button, then the LEVEL +(R)/-(L) keys/buttons to select the first letter or number. The letters and numbers change as follows when the LEVEL +(R) is pressed:

A - Z → 0 - 9 → blank → - (hyphen) → . (period)



Press LEVEL -(L) for reverse direction.

After the desired letter or number is selected, press SELECT key/button to go on to the next position. Up to 8 characters can be stored.

- 6** Press the DISPLAY key/button so that the on-screen display goes out.

- 7** Press the CONTROL key to extinguish the control keys.

1-4. USING THE PROGRAMMABLE REMOTE COMMANDER

The supplied RM-785 Remote Commander allows you to operate other Sony video equipment having an infrared remote control detector. Furthermore, it can "read" and "store" the functions of another remote commander having an infrared beam transmitter, not only those made by Sony but also those of other manufacturers as well. Thanks to this "learning" function, you can operate your audio and video equipment using only one Remote Commander.

Parts Used for Learning Function

Programmable area

Within this area, any button except the one which is located on the right side of the ● button can "read" and "store" the function of another remote commander. When storing a function on the ● button, press it by itself. To use it, press it together with the button on the right.

READY/LEARN lamp

READY lamp: lights up when the LEARN-USE selector is set to LEARN.
LEARN lamp: lights up when learning is finished.

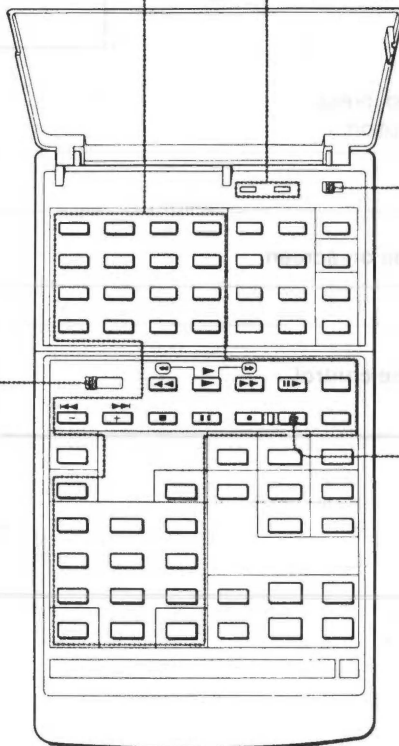
LEARN-USE selector

Normally, set to USE.
When having the Commander store the functions, set to LEARN.

VTR 1/2/3/MDP selector

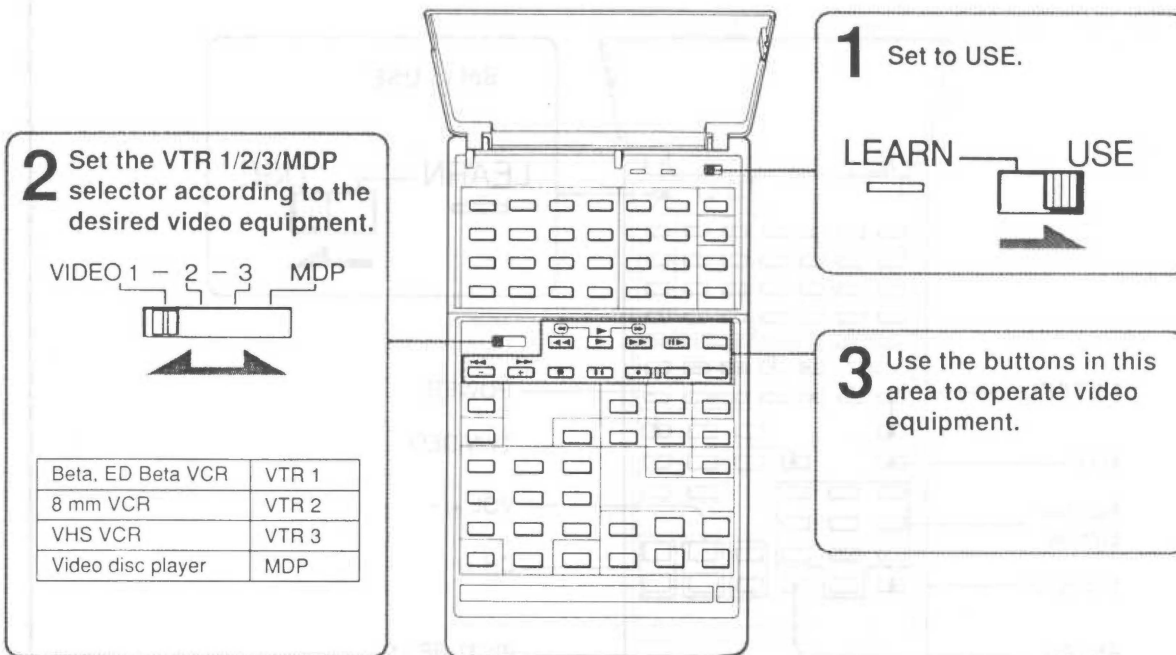
By setting this selector, you can choose to operate up to 4 different units.

This button alone cannot store the function of another remote commander. However, to use the ● button after a new function has been stored on it, you must also press this button.



Operating Sony Video Equipment

The supplied Remote Commander allows you to operate Sony video cassette recorders (including Beta, 8 mm, VHS), and video disc player (including multi disc player). For operating video equipment manufactured by Sony, "learning" is unnecessary.



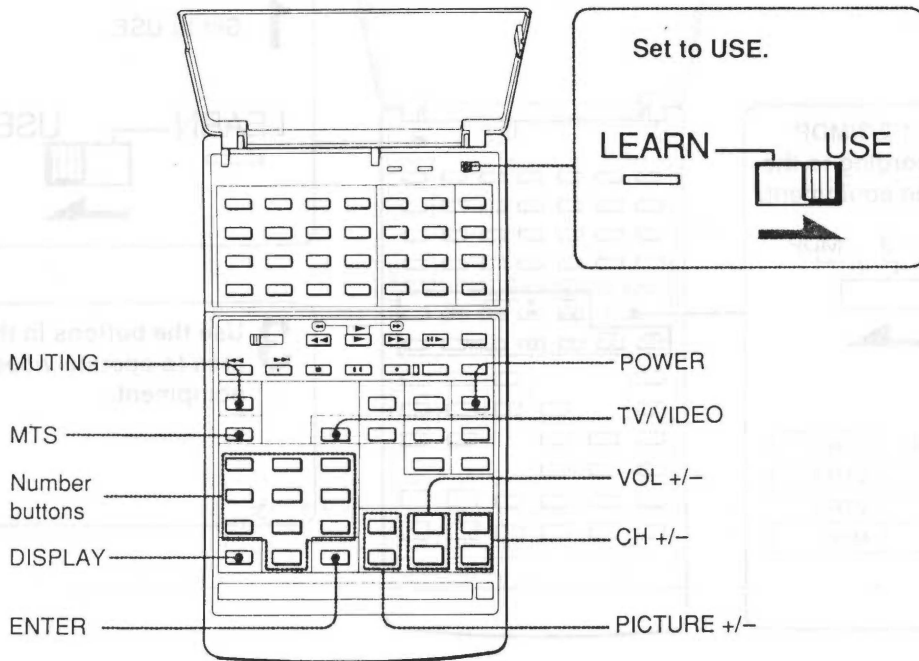
Operating a Video Cassette Recorder		Operating a Video Disc Player	
To start recording	Press ●.	To start playback	Press ►.
To start playback	Press ►.	To stop playback	Press ■.
To stop playback	Press ■.	To freeze a picture	Press II. To resume normal playback, press again. * This function is effective only for CAV (standard-play disc). With CLV (extended-play disc), the unit will go into the standby mode if II is pressed.
To advance the tape rapidly	Press ►►.		
To rewind the tape	Press ◀◀.	To view the picture at a fast speed to find a particular scene	Keep pressing ►► or ◀◀ during playback. To resume normal playback, release the button.
To freeze a picture	Press II. To resume normal playback, press again.	To view freeze pictures successively at specific intervals	Press II ► during playback.
To view the picture at a fast speed to find a particular scene	Keep pressing ►► or ◀◀ during playback. To resume normal playback, release the button.	To view freeze pictures successively at specific intervals	Press II ► during playback.

Notes

- If your video equipment is furnished with a VTR selector, set the selector to the same position with the VTR 1/2/3/MDP selector on the RM-785.
- If the equipment does not have a certain function, the corresponding button on the RM-785 is not effective.

Operating Sony TV or Color TV Tuner

The supplied Remote Commander allows you to operate a Sony TV or color TV tuner. For operating a TV or color TV tuner manufactured by Sony, "learning" is unnecessary.



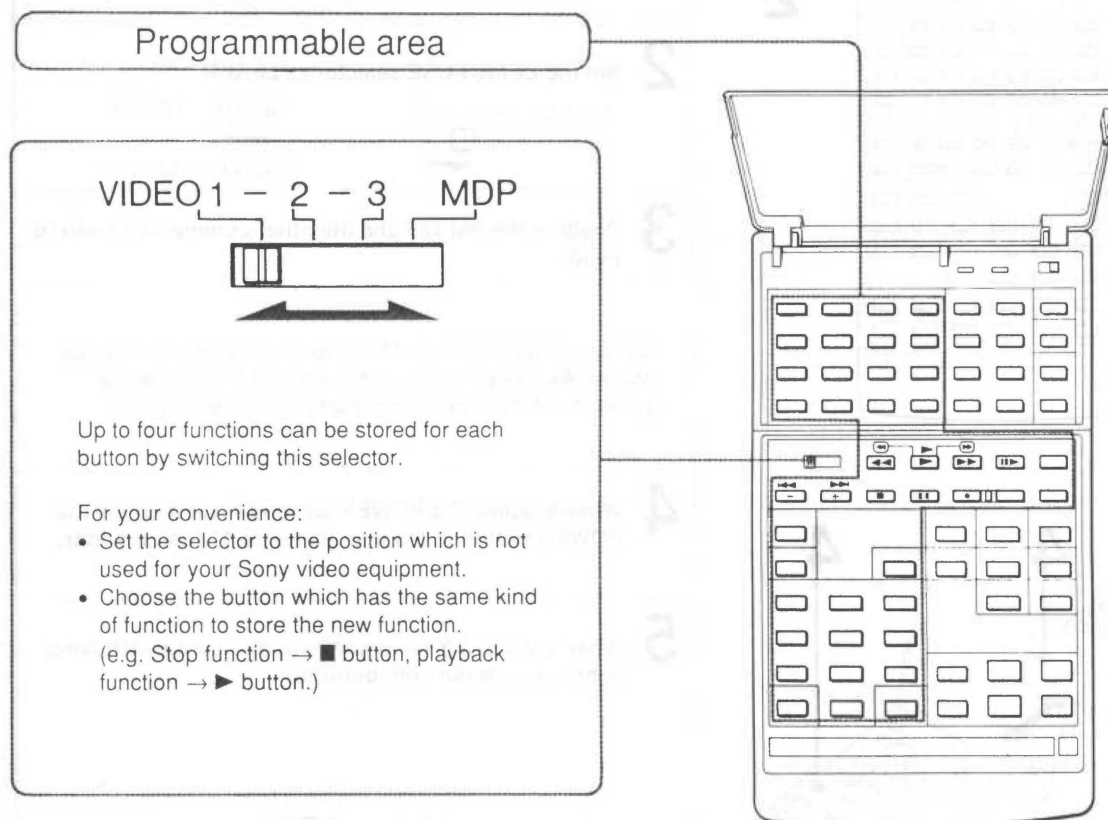
Operating a TV

To turn on the TV	Press POWER.
To select the channel	Press the number buttons and then ENTER, or press CH +/- buttons.
To adjust the volume	Press VOL +/-.
To adjust the picture contrast	Press PICTURE +/-.
To mute the sound	Press MUTING.
To change to the video picture	Press TV/VIDEO.
To receive a Multichannel TV Sound program	Press MTS to select MAIN, SAP (Second Audio Program), or both.
To display the channel number	Press DISPLAY.

Operating Audio Video Equipment of Other Manufactures, or Sony Audio Equipment

Within the programmable area, any button can store the function of the remote commander supplied with other manufacturer's equipment or Sony audio equipment.

A button can store a function having no relation to its name on the RM-785.

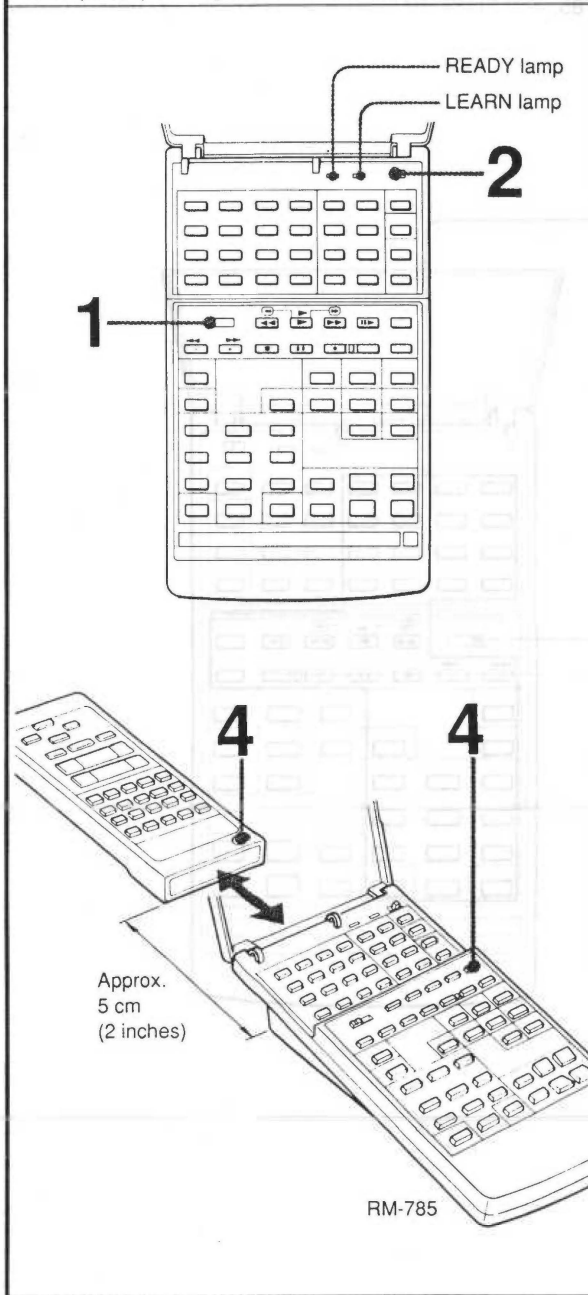


Caution

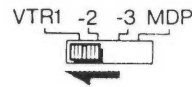
When new function is stored, the original function to operate Sony video equipment is cleared from the button. After you clear the stored function, the button functions for Sony equipment again.

How to Use the Learning Function

Example: Operating the video cassette recorder of manufacturer A, when the selector is set to VTR 1.



1 Set the VTR 1/2/3/MDP selector to VTR 1.



2 Set the LEARN-USE selector to LEARN.

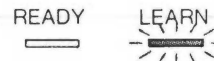


3 Position the RM-785 and the other commander head to head.

Choose a button of the RM-785 to which a function is to be stored. As an example, let's have the RM-785 store the power on/off function of manufacturer A's commander.

4 While keeping the POWER button pressed, press the POWER button of the manufacturer A's commander.

5 When the READY lamp goes out and the LEARN lamp lights up, release both buttons.



Now, A's power on/off function has been stored on the POWER button of the RM-785. Repeat steps 4 and 5 to continue learning other functions.

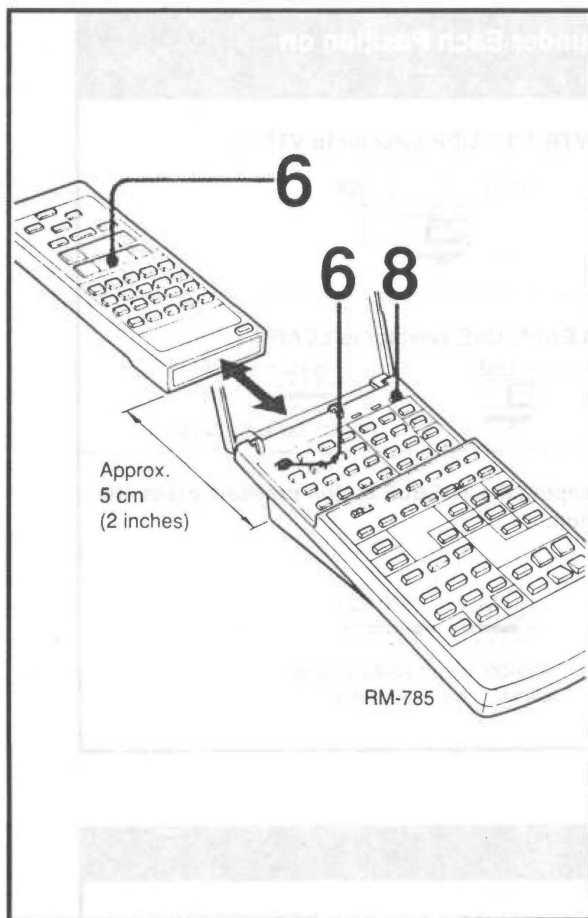
Continued on next page

For accurate learning

- Be sure that these commanders are positioned head to head exactly aligned, and approx. 5 cm (2 inches) apart.
- Do not move the commanders during the learning process.

Note

Both READY and LEARN lamps light up if the function has not been stored. Try again from step 3.



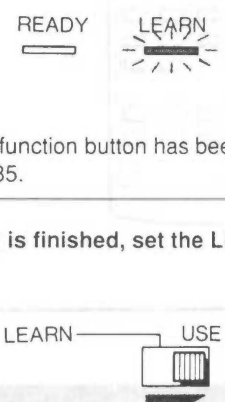
Next, let's Button 1 on this commander store the "play" function of manufacturer A's commander.

6 While keeping Button 1 on this commander pressed, press the play button of the manufacturer A's commander.

7 When the READY lamp goes out and the LEARN lamp lights up, release both buttons.

Now, A's play function button has been stored on Button 1 of the RM-785.

8 After learning is finished, set the LEARN-USE selector to USE.



Notes

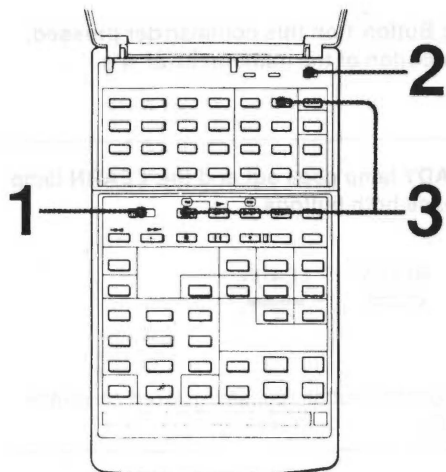
- When operating equipment with stored functions, the VTR 1/2/3/MDP selector should be set to the same position as it was when the functions were stored. The LEARN-USE selector should be set to USE.
- The functions of other equipment can be stored by repeating these steps for each of the positions of the VTR 1/2/3/MDP selector. Use the supplied index sheets by placing them on buttons and writing the names of stored functions for further reference.
- The batteries will last about half a year with normal operation. Replace the batteries before they wear out.
- Replace the batteries within approximately 30 minutes. If not, the stored functions may be erased from the buttons.
- Do not use the learning function for equipment other than audio and video ones.
- Be sure to confirm that the functions have been stored as a few of the functions of other manufacturer's commanders are not storable on RM-785.
- When you have stored a new function on a button, the previous function is cleared automatically.

The learning function will not work in the following cases:

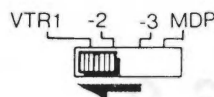
- There is a fluorescent lamp or equipment with infrared rays which emit noise.
→ Move the commanders away from them.
- The batteries are exhausted.
→ Replace all the batteries with new ones.
- There is an obstacle between the commanders, or the commanders are not positioned head to head and exactly aligned.
→ Position the commanders properly.

Clearing Stored Functions – Clearing Stored Functions under Each Position on VTR 1/2/3/MDP Selector

Example: Clearing functions stored on VTR 1 position



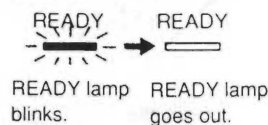
1 Set the VTR 1/2/3/MDP selector to VTR 1.



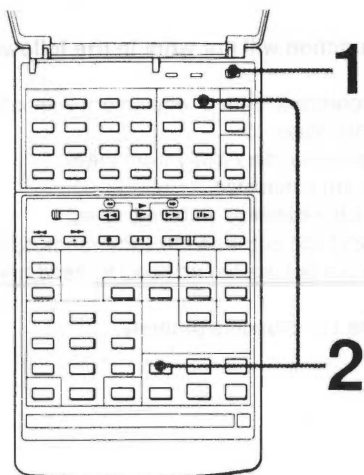
2 Set the LEARN-USE selector to LEARN.



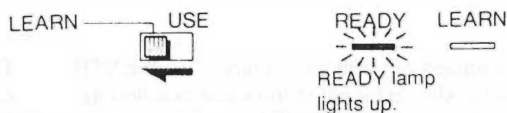
3 While keeping the TREBLE button pressed, press the **←** button.



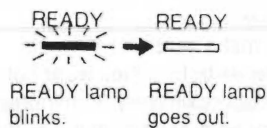
Clearing All the Stored Functions



1 Set the LEARN-USE selector to LEARN.



2 While keeping the TREBLE button pressed, press the **PICTURE +** button.

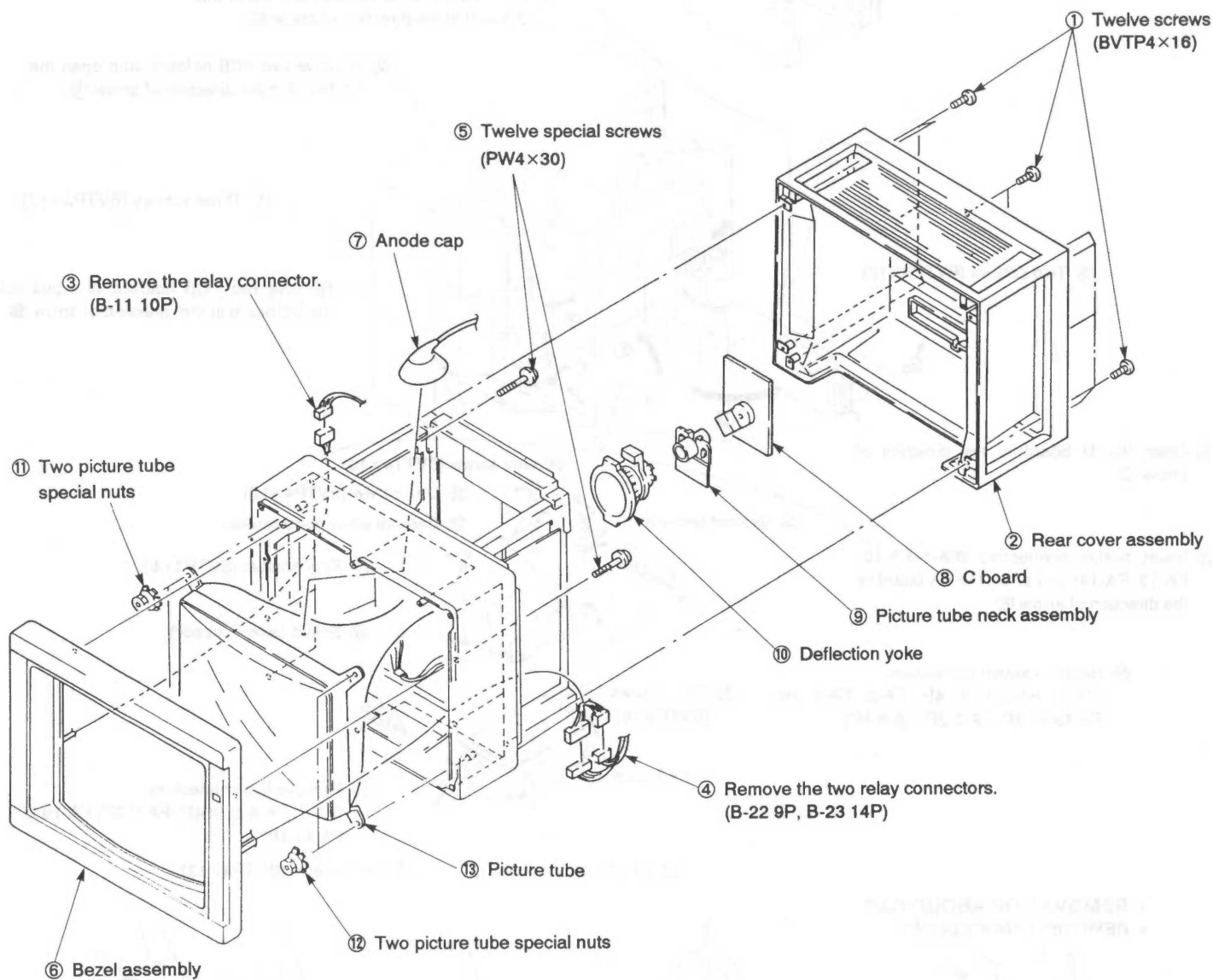


Note

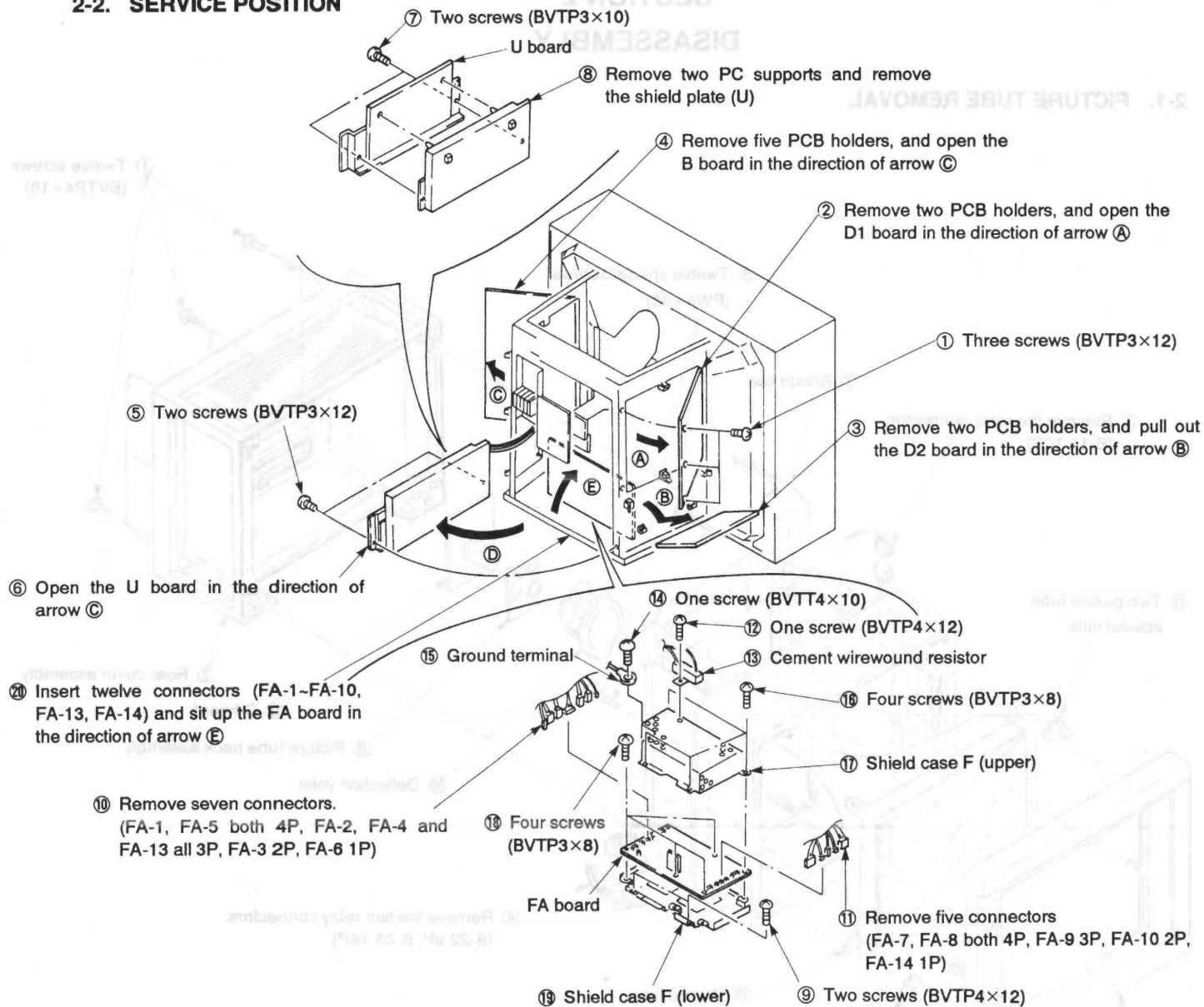
After clearing stored functions, the buttons function for Sony video equipment again.

SECTION 2 DISASSEMBLY

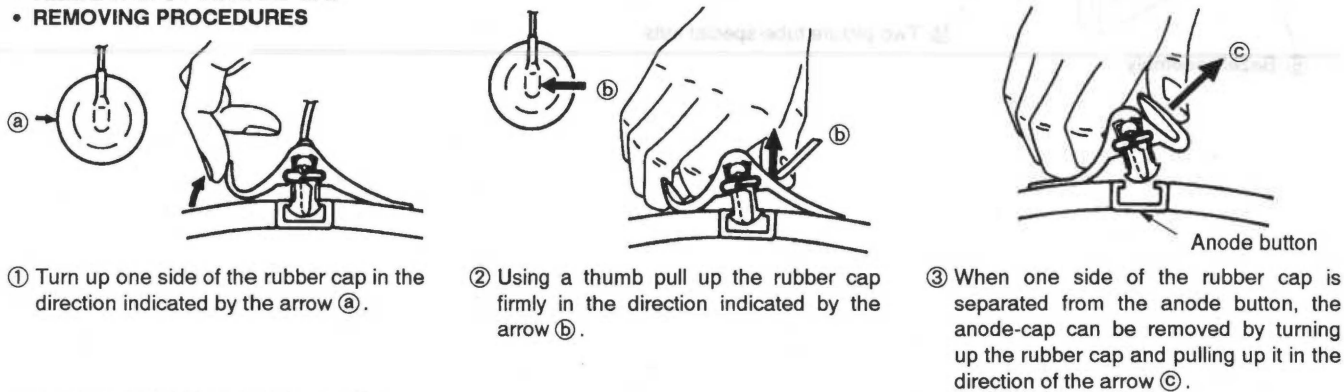
2-1. PICTURE TUBE REMOVAL



2-2. SERVICE POSITION

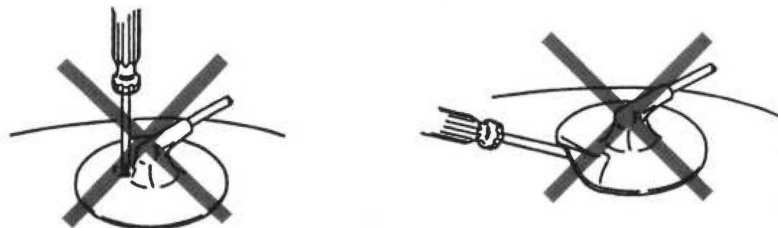


**• REMOVAL OF ANODE-CAP
• REMOVING PROCEDURES**



• HOW TO HANDLE AN ANODE-CAP

- ① Don't hurt the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardly not to hurt inside of anode-caps!
A metal fitting called as shatter-hook terminal is built in the rubber.
- ③ Don't turn the foot of rubber over hardly!
The shatter-hook terminal will stick out or hurt the rubber.



SECTION 3 SET-UP ADJUSTMENTS

The following adjustments should be made when a complete realignment is required or a new picture tube is installed. These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switches should be set as follows unless otherwise noted:

- PICTURE button..... Standard
- BRIGHTNESS control..... Standard

Perform the adjustments in order as follows:

- 3-1. Beam Landing Adjustment
- 3-2. Convergence Adjustment
- 3-3. Focus Adjustment
- 3-4. G2, White Balance Adjustment

Note: Test Equipment Required.

- 1. Color bar pattern generator
- 2. Degausser

3-1. BEAM LANDING ADJUSTMENT

Preparation:

- 1. Direct the unit to the East or West to escape the influence of earthy magnetism.
- 2. Turn on the power and demagnetize with degausser.

3-1-1. Beam Landing

- 1. Receive an all white signal and set PICTURE button to maximum.
- 2. Position the neck assembly as shown in the figure. (Fig. 3-1.)
- 3. Adjust roughly the focus and horizontal convergence.
- 4. Loosen the deflection yoke bracket, and set purity control to the center. (Fig. 3-2.)
- 5. Set the pattern generator to all red signal.
- 6. Move the deflection yoke backward. Turn the purity magnets evenly so that red is in the center. (Fig. 3-3.)
- 7. Move the deflection yoke forward so that the entire screen becomes red. (In the same way of procedures, 5 through 7, adjust blue and green.)
- 8. When corner landing is not adjusted correctly, fine-adjust with magnets. (Fig. 3-4.)
- 9. When the deflection yoke position is adjusted correctly, tighten it with a bracket.

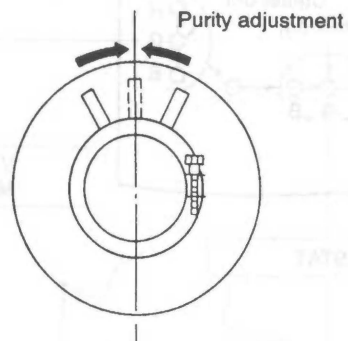


Fig. 3-1.

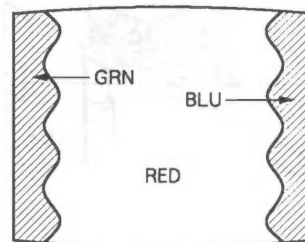


Fig. 3-2.

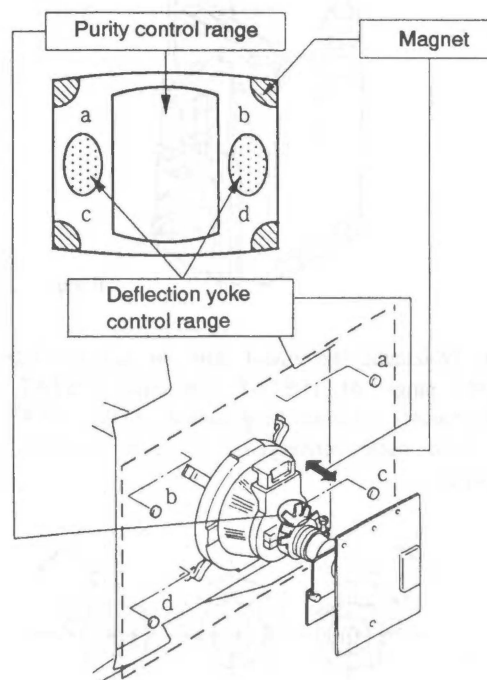
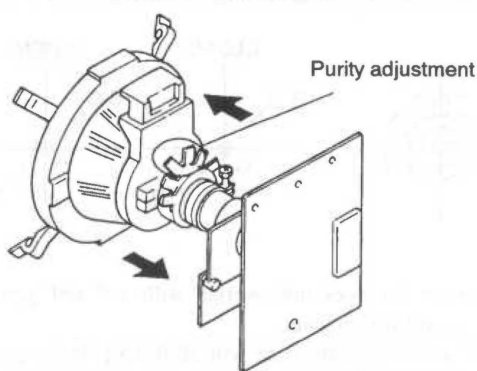
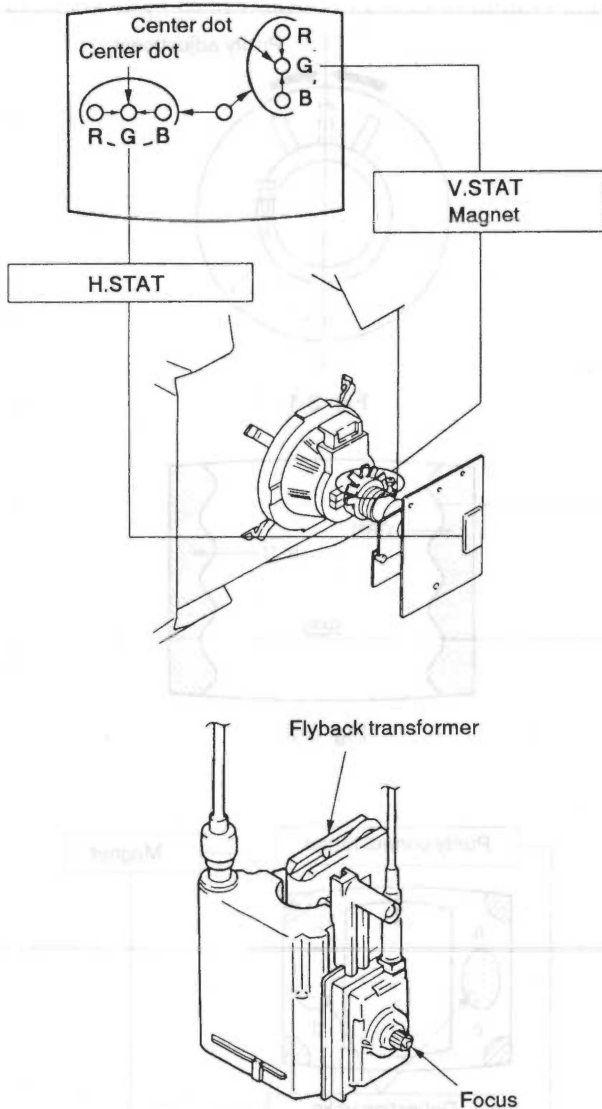


Fig. 3-3.

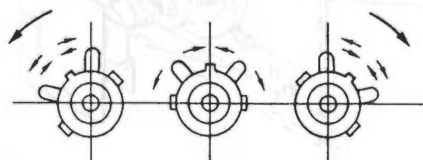
3-2. CONVERGENCE ADJUSTMENT

3-2-1. Horizontal and Vertical Static Convergence at Screen Center Adjustment (Static Convergence)

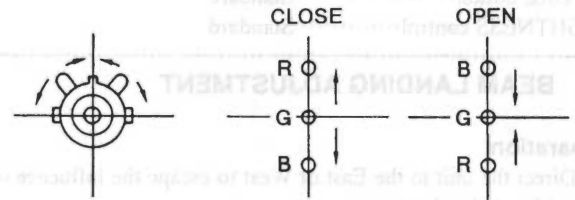
1. Receive a dot signal and set PICTURE button to standard.
2. Overlap red, green and blue dots at the center of screen (horizontally) with H.STAT VR.
3. Overlap red, green and blue dots at the center of screen (vertically) with H.STAT VR.



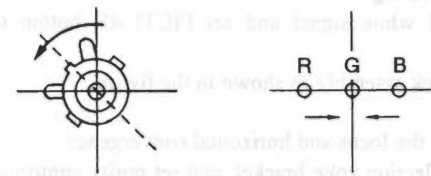
* When horizontal movement dots do not coincide within variable range of H.STAT VR, use V.STAT magnet simultaneously while tracking tracking. (Tilt V.STAT magnet and adjust static convergence to open or close V.STAT magnet.)



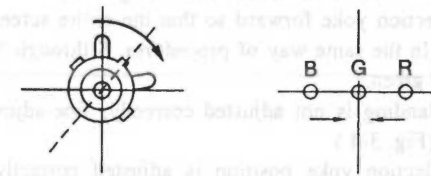
4. When the V.STAT magnet is moved in the direction of arrow, red, green and blue dots move as shown below.
 - ① Movement when opening or closing V.STAT magnet.



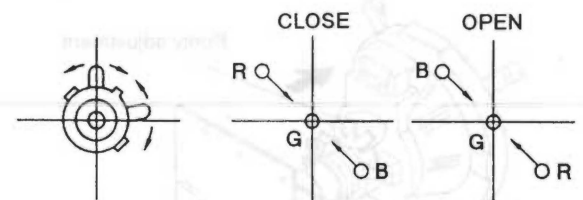
- ② Movement when tilting V.STAT magnet to counterclockwise.



- ③ Movement when tilting V.STAT magnet to clockwise.



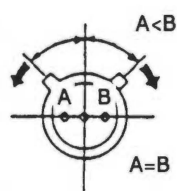
- ④ Movement when tilting, opening or closing V.STAT magnet.



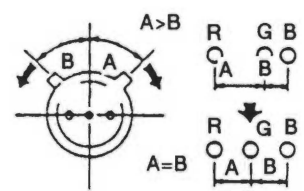
* When blue dot does not overlap with red and green dots, correct with BMC magnet.

5. HMC and VMC correction with BMC (6-pole) magnet
 - ① BMC magnet HMC (horizontal misconvergence) correction and electronic beam movement

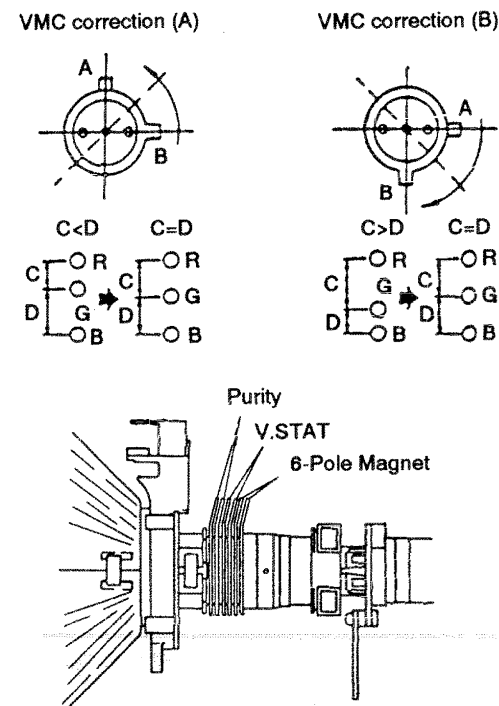
HMC correction (A)



HMC correction (B)

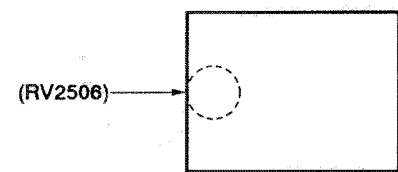


- ② BMC magnet VMC (vertical misconvergence) correction and electronic beam movement

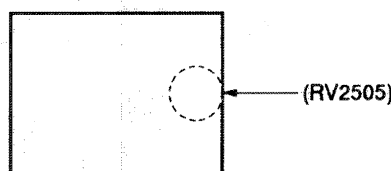


3-2-2. Screen Peripheral Convergence (Dynamic Convergence Adjustment)

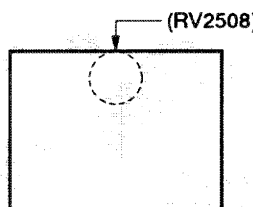
1. Confirm that horizontal convergence of screen center is adjusted. If not, adjust with H.STAT VR on the C board.
2. Adjust convergence of left screen center with L.A (RV2506) on the D2 board.



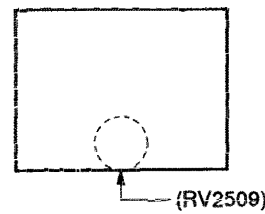
3. Adjust convergence of right screen center with R.A (RV2505) on the D2 board.



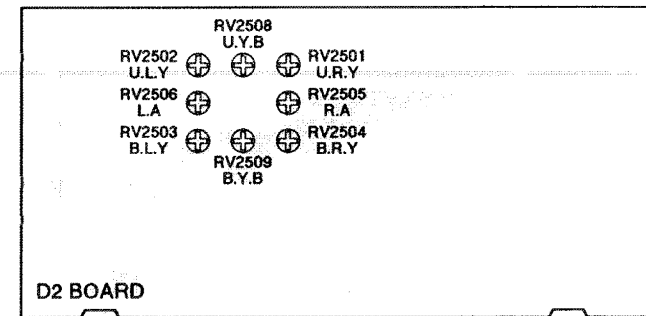
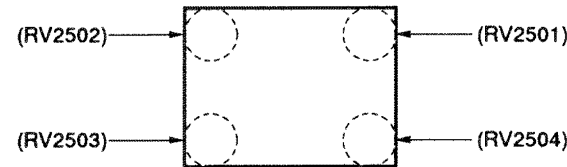
4. Adjust convergence of upper screen center with U.Y.B (RV2508) on the D2 board.



5. Adjust convergence of lower screen center with B.Y.B (RV2509) on the D2 board.



6. Adjust convergences of each screen corner with U.R.Y (RV2501), U.L.Y (RV2502), B.R.Y (RV2504) and B.L.Y (RV2503) on the D2 board.



3-3. FOCUS ADJUSTMENT

1. Receive on-air broadcast signal.
2. Set BRIGHTNESS and SHARPNESS controls to "RESET" position and PICTURE button to maximum.
3. Adjust with FBT (T699) FOCUS VR on the FB board. (At this time, if adjust focus only at screen center, the magenta ring appears in the center. Adjust magenta ring not to be outstandingly visible.)

3-4. G2, WHITE BALANCE ADJUSTMENT

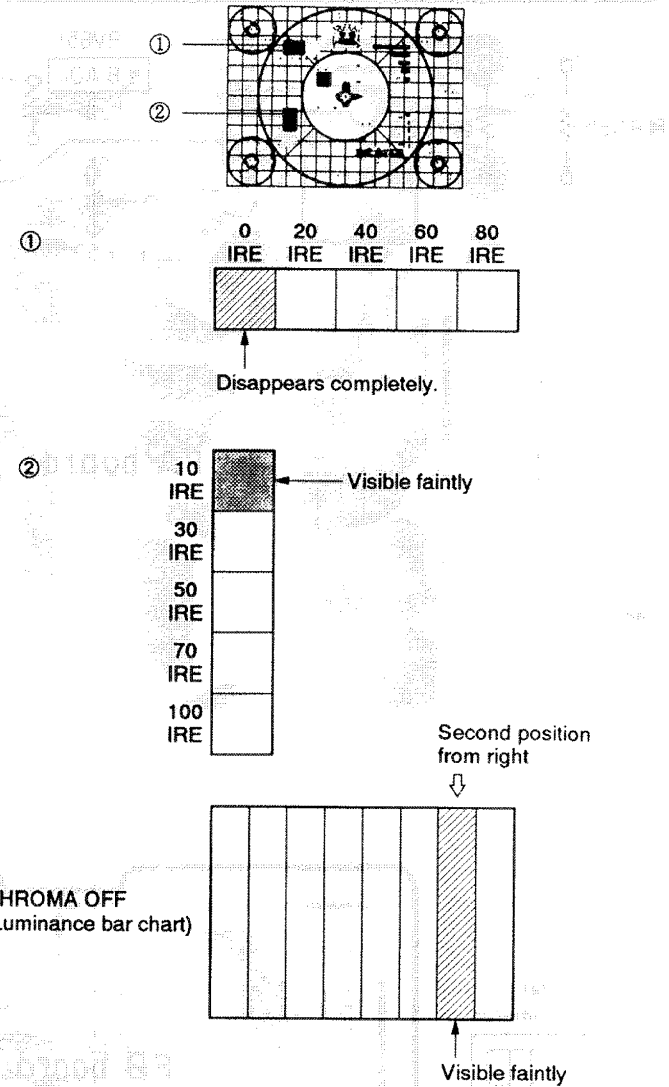
3-4-1. G2 Adjustment

1. After remove the connector (C-2) on the C board, apply 170 Vdc to each cathode of Red, Green and Blue.
2. Adjust G2 VR (RV701) on the C board so that the flyback mostly disappears on the screen.

3-4-2. White Balance Adjustment

1. Receive the analog RGB signal. Set BRIGHTNESS control to "RESET" and PICTURE button to minimum.
2. Adjust white balance with blue cut-off (RV703) and red cut-off (RV705).
3. Set PICTURE button to 70%, and adjust white balance with green and blue drive VRs (RV1401, RV1402).
4. Repeat from step 2 to step 3.
5. Receive a video signal and set to all white pattern. Then press control key and set D.COL (dynamic color) on the control key panel to "OFF".
6. Set BRIGHTNESS control to "RESET" and PICTURE button to minimum.
7. Adjust Green Black control (RV454) and Blue Black control (RV455) so that the color temperature becomes optimum (9300°K).
8. Set PICTURE button to maximum and set S-BRT VR (RV709) on the C board to mid-rotation.
9. Adjust G.GAIN ADJ VR (RV456) and B.GAIN ADJ VR (RV457) so that the color temperature becomes optimum (9300°K).
10. Repeat from step 7 to step 9.
11. Receive a monoscope signal, and set PICTURE button to minimum and BRIGHTNESS control to "RESET".
12. Adjust S-BRT VR (RV709) on the C board so that 0 IRE portion is cut-off and 10 IRE portion obtains the faintly visible raster.

Monoscope pattern



SECTION 4

SAFETY RELATED ADJUSTMENTS

**CONFIRMATION METHOD
(HOLD-DOWN CONFIRMATION) AND
READJUSTMENTS (R691)**

The following adjustments should always be performed when replacing the following components (marked with \blacksquare on the schematic diagram).

- \blacksquare on FB BOARD: R675, R676, R688, R690, R691, R692, R693, R694, R695, R696, R697, D698, Q699, IC699
- \blacksquare on D1 BOARD: R534, R536, R538, R1570, C509, D503, D508, D552, IC501, IC504

1. Input a monoscope signal.
2. Set PICTURE and BRIGHT controls to maximum.
3. Connect a digital multimeter to Pin ② of FB-4 connector.
4. Confirm that the voltage is more than 15.3V DC.
5. Apply an external DC voltage gradually to TP1 on the FB board, and when the voltage of Pin ② of FB-4 connector becomes $18.95^{+0}_{-0.1}$ V DC, confirm the HOLD DOWN circuit operates immediately and raster disappears. When the HOLD DOWN circuit starts operating, switch OFF the Power of the set immediately.
6. Turn the POWER switch ON, and apply an external DC voltage gradually to TP1, and when the voltage of Pin ② of FB-4 connector becomes $17.50^{+0.1}_{-0}$ V DC, confirm the HOLD DOWN circuit does not operate. If the HOLD DOWN circuit operate, switch OFF the Power of the set immediately.
7. Input a dot signal.
8. Set PICTURE and BRIGHT controls to minimum.
9. Apply DC voltage to TP1, and when the voltage of Pin ② of FB-4 connector becomes $19.85^{+0}_{-0.1}$ V DC, confirm the HOLD DOWN circuit operates immediately and raster disappears. When the HOLD DOWN circuit starts operating, switch OFF the Power of the set immediately.
10. Turn the POWER switch ON, and apply DC voltage to TP1, and when the voltage of Pin ② of FB-4 connector becomes $18.40^{+0.1}_{-0}$ V DC, confirm the HOLD DOWN circuit does not operate. If the HOLD DOWN circuit operate, switch OFF the Power of the set immediately.
11. Input a dot signal.
12. Set PICTURE and BRIGHT controls to minimum.
13. Confirm that the voltage of TP502 on the D1 Board is more than 133.0V DC.
14. Apply an external DC voltage to TP502, and when the voltage becomes 141.68 ± 0.5 V DC, confirm the HOLD DOWN circuit operates immediately and raster disappears. When the HOLD DOWN circuit starts operating, switch OFF the Power of the set immediately.
15. Turn the POWER switch ON, and when the voltage becomes 138.50 ± 0.5 V DC, confirm the HOLD DOWN circuit does not operate. If the HOLD DOWN circuit operate, switch OFF the Power of the set immediately.

16. When step 4 to 10 is not satisfied, readjustment should be performed by altering the resistance value of \blacksquare R691 on the FB Board.

B+ MAX VOLTAGE CONFIRMATION (R684, R685)

The following adjustments should always be performed when replacing the following components (marked with \blacksquare on the schematic diagram).

- \blacksquare on FA BOARD: RV651, RV652, R664, R665, R670, R684, R685, TH651, D663, IC602

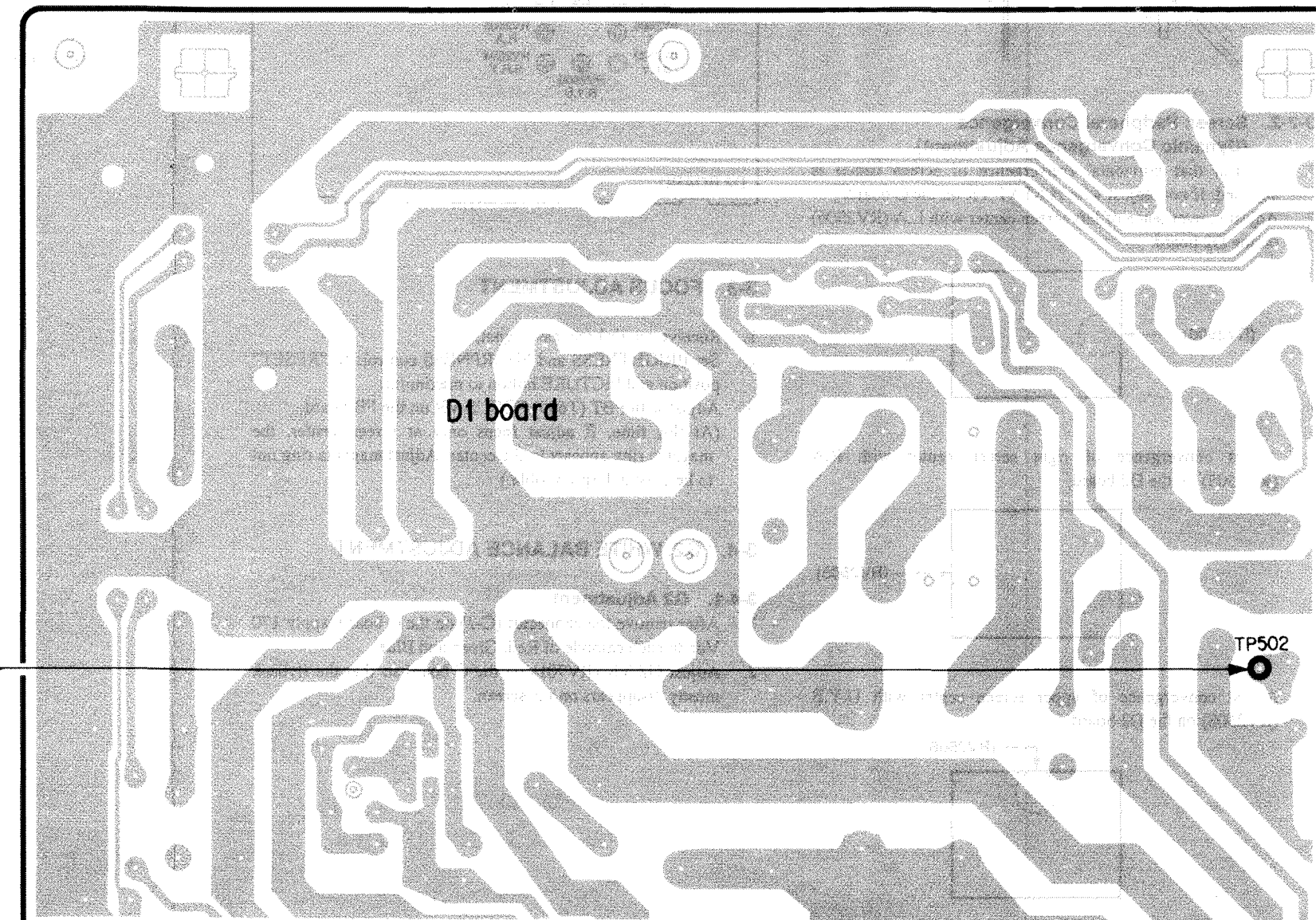
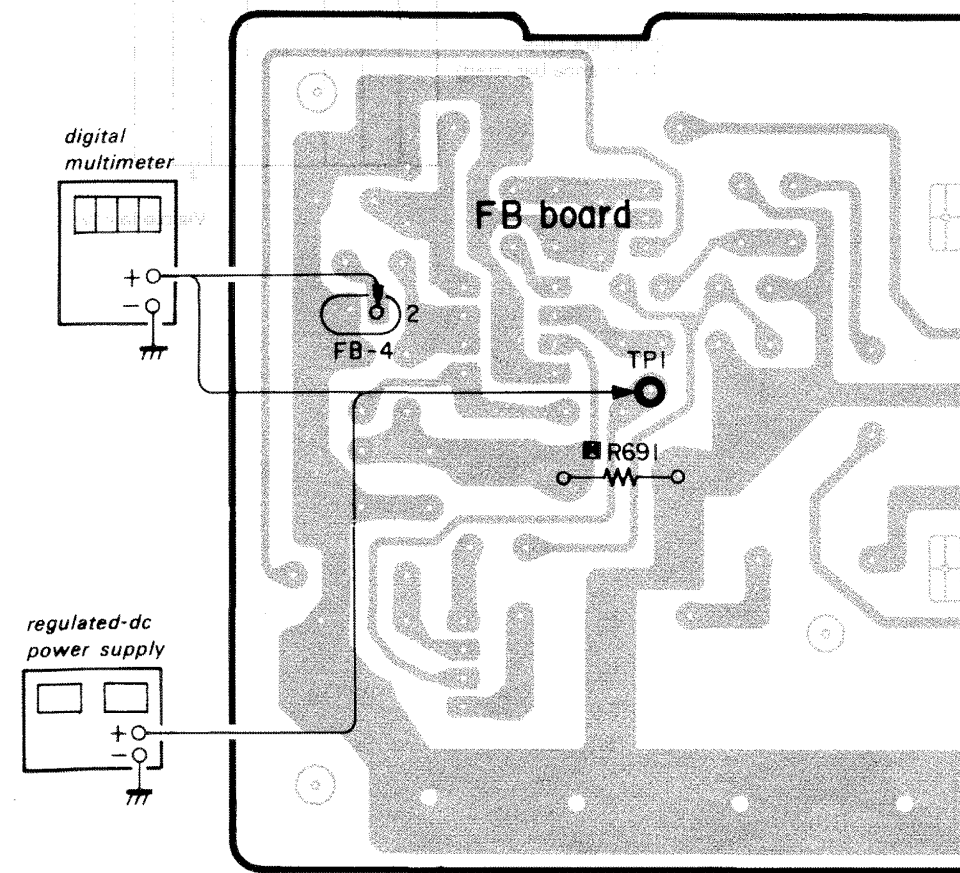
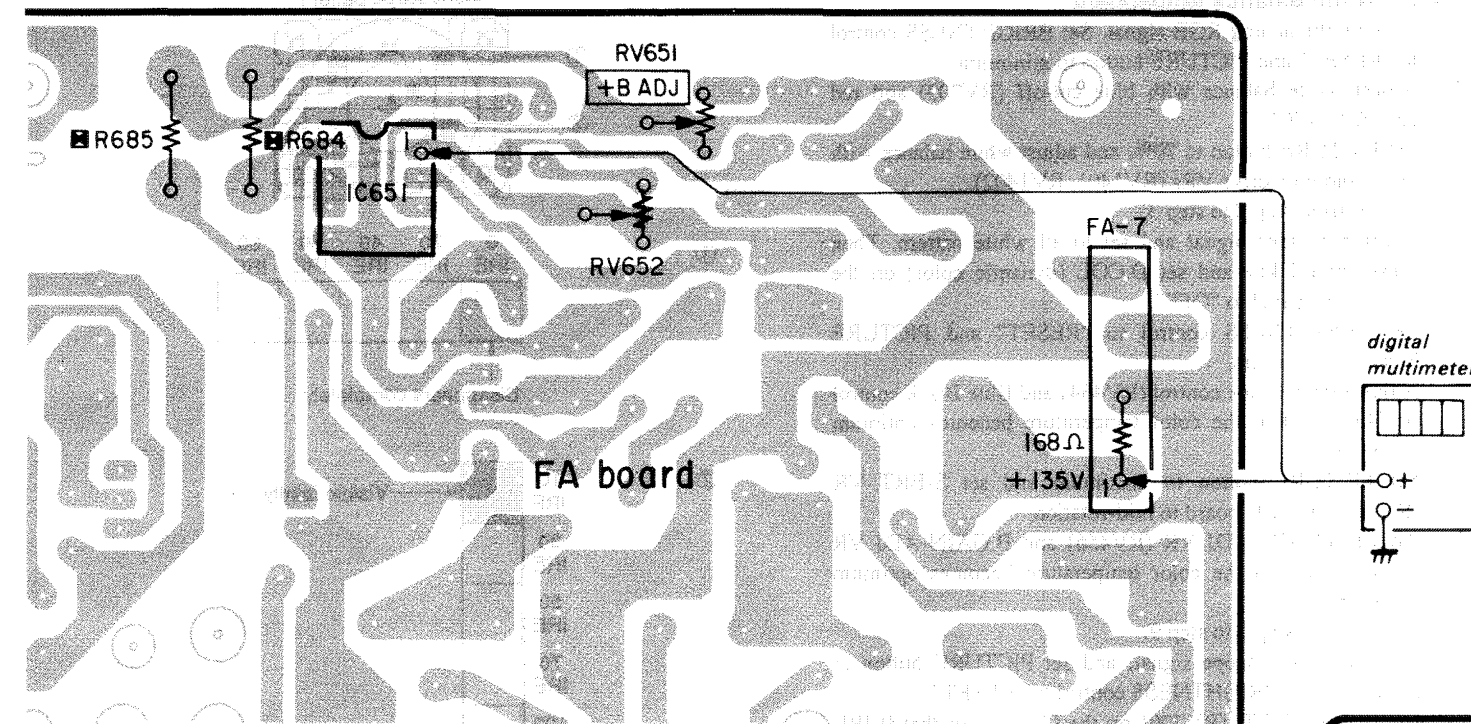
1. Supply 130^{+2}_{-0} V AC, 60 Hz with variable auto-transformer.
2. Input a monoscope signal.
3. Rotate RV651 on the FA board fully counterclockwise (B+ up), and set RV652 to mechanical center. Connect the regulated load to the following power supply line.
+B (135V) line: FA-7 Pin ①. 800 mA (168 Ω) ...highlight.
4. Select temporarily R684 so that B+ voltage becomes about 135V DC.
5. Select R685 so that the voltage on Pin ① of IC651 becomes nearly 3.2 V DC (less than 3.3V DC).
6. Rotate RV652 fully clockwise (B+ up).
7. Select R684 so that B+ voltage becomes 137 ± 1 V DC.

B+ ADJUSTMENT (FA BOARD)

1. Adjust RV651 so that B+ becomes 135 ± 1 V.
2. Adjust RV652 so that the level at Pin ① of IC651 becomes 3.2 ± 0.1 V.
3. Repeat the adjustment until both (1) and (2) meet the respective specifications.
4. After adjustment, fix RV652 with epoxy resin to lock confirmly.

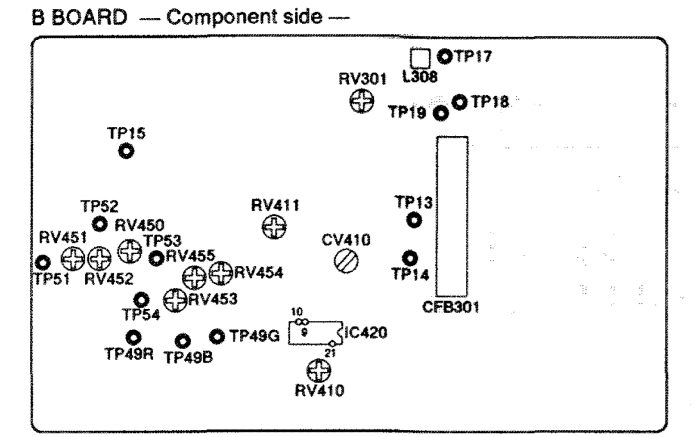
CONFIRMATION WHEN REPLACING HVR

Confirm that the voltage of Pin ② of FB-4 connector is more than 15.3V DC when replacing HVR.



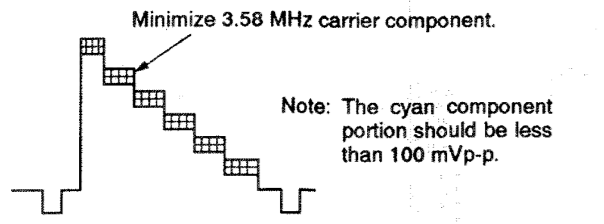
**SECTION 5
ELECTRICAL ADJUSTMENT**

5-1. B BOARD ADJUSTMENT



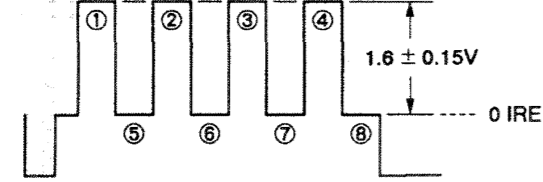
- Y.Level (RV301)**
1. Receive contained 100 IRE and set BRIGHTNESS control and PICTURE button to standard.
 2. Connect an oscilloscope to TP15 (Y.IN) and adjust Y.level VR (RV301) so that the voltage value of 100 IRE portion becomes 800 ± 15 mV.

- Notch (L308)**
1. Receive a color bar signal and set BRIGHTNESS control and PICTURE button to standard.
 2. Set the notch to "ON" with the keyboard.
 3. Connect an oscilloscope to TP17 (notch output) and adjust Notch VR (L308) so that 3.58 MHz component becomes minimum.
 4. Set Notch VR to "OFF" after adjustment.

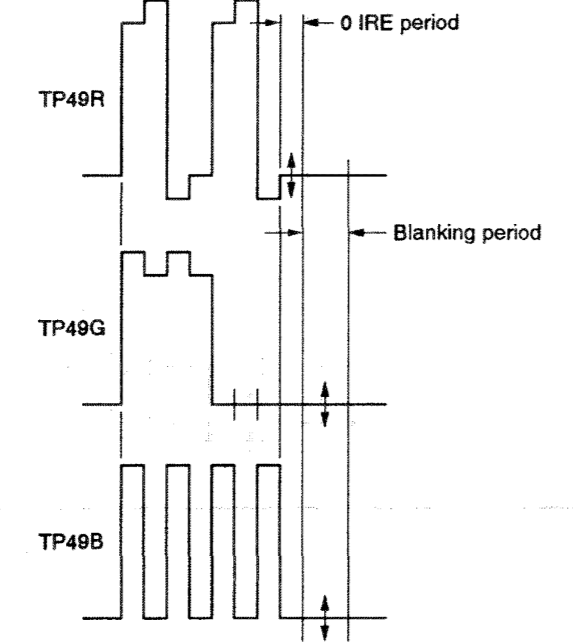


- CW (14.3 MHz) fo (CV410)**
1. Receive a color bar signal and set BRIGHTNESS control and PICTURE button to standard.
 2. Short-circuit Pins ⑨ and ⑩ of IC420 (TA7193P) and connect 22 kΩ resistance to Pin ④ and ground.
 3. Adjust the position so that the color bar disappears and the hue change stops with CW VR (CV410).
 4. Remove jumper wire and resistor connected in step 2.

- ACC. Hue (RV410, RV411)**
1. Receive a color bar signal.
 2. Set PIC to MAX.
 3. Set the color and hue to standard with control keyboard and set new dynamic color (D.COL) to "OFF".
 4. Short-circuit TP18 and TP19 and release the gamma correction.
 5. Connect an oscilloscope to TP49B (blue output) and adjust COLOR VR (RV410) and HUE VR (RV411) so that the waveform is as shown in the figure.
 6. Confirm that the TP49B voltage is 1.6 ± 0.15 Vp-p and remove jumper wire from TP18 and TP19.

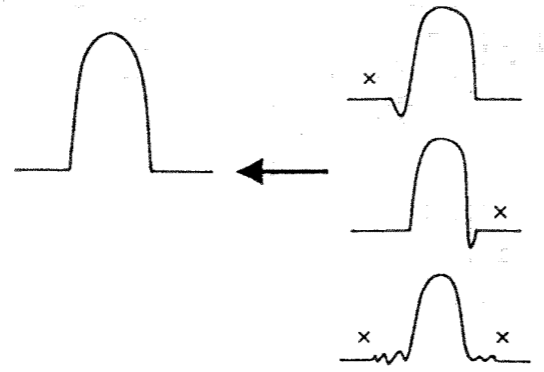


- Black Level (RV450, RV454, RV455)**
1. Receive a color bar signal, and set PICTURE button to minimum and dynamic color (D.COL) to "OFF" with the keyboard of control panel.
 2. Adjust the voltage of 0 IRE portion with red/black level VR (RV450) (R.BLACK ADJ) so that the voltage levels of TP49R red output (R.OUT) 0 IRE portion and the voltage of blanking period become the same.
 3. Adjust the voltage of blanking period with green/black level VR (RV454) (G.BLACK ADJ) so that the voltage levels of TP49G green output (G.OUT) 0 IRE portion and the voltage of blanking period become the same.
 4. Adjust the voltage of blanking period with blue/black level VR (RV455) (B.BLACK ADJ) so that the voltage levels of TP49B blue output (B.OUT) 0 IRE portion and the voltage of blanking period become the same.
 5. Return to step 2 again, and if the voltage of blanking period is not equal to that of 0 IRE portion, repeat from step 2 to step 5.

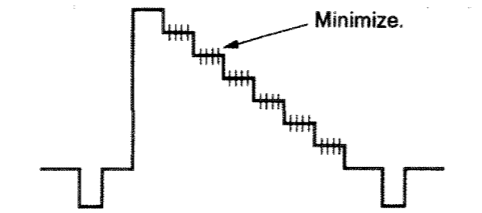


- New Dynamic Color (RV451, RV452, RV453)**
1. Receive a color bar signal.
 2. Set D.COLOR to "ON" and PICTURE button to minimum.
 3. Adjust respective G.DC ADJ (RV451) and B.DC ADJ (RV452) so that the 0 IRE portions of TP51 (G.DC), TP52 (B.DC) and TP54 (R.DC-1) become the same.
 4. Adjust R.DC ADJ (RV453) so that DC level of TP53 (R.DC-2) and TP54 (R.DC-1) 0 IRE portion become the same.

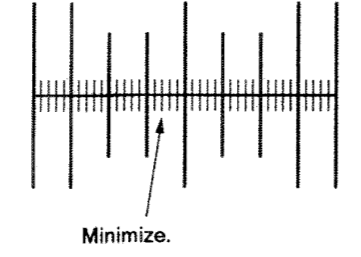
- CCD (Charge Coupled Device) Comb Filter**
1. Receive 2T pulse signal.
 2. Connect an oscilloscope to TP14 (Y.OUT1).
 3. Adjust PADJ1 and PADJ2 in the CFB301 pack so that the 2T pulse becomes the clearest waveform.



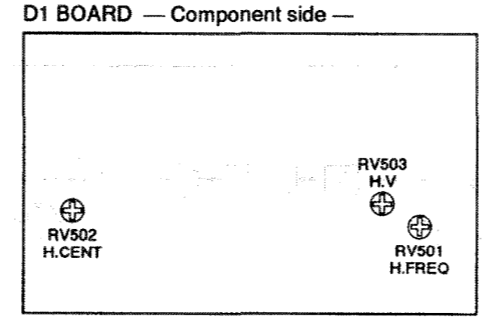
4. Receive a color bar signal and connect an oscilloscope to TP14 (Y.OUT1).
5. Adjust Y ADJ1 and Y ADJ2 in the CFB301 pack so that the chroma component on Y signal becomes minimum.



6. Receive a color bar signal and connect an oscilloscope to TP13 (Y.OUT2).
7. Adjust CADJ1 and CADJ2 in the CFB301 pack so that the chroma component becomes minimum.



5-2. D1 BOARD ADJUSTMENT

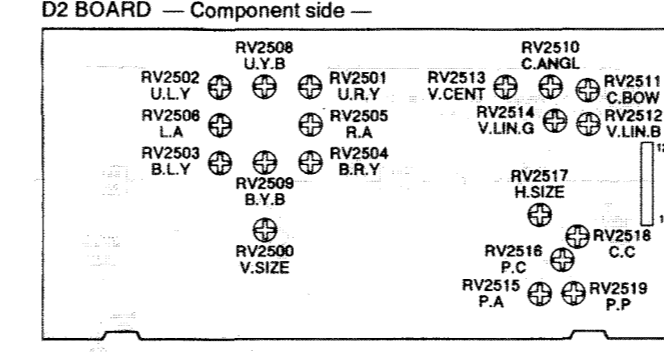


- H.Freq (RV501)**
1. Set the unit in no signal input.
 2. Connect the frequency counter to Pin ④ of D1-4 connector.
 3. Ground Pin ③ of D1-2 connector with electrolytic capacitor (22 μF/16V).
 4. Adjust the horizontal frequency (H.FREQ) VR (RV501) so that the frequency counter value become 15.75 ± 0.05 kHz.

- H.Center (RV502)**
1. Adjust horizontal centering VR (RV502) so that the screen becomes the horizontal center.

- H.V (RV503)**
1. Connect a digital voltmeter at the junction of Q515 base/R589 and ground.
 2. Turn RV503 so that the high tension load current flows at 1.7 mA, and set the indication of digital voltmeter to $1V \pm 0.1V$.
 3. Confirm that the high tension indication is $27.4 kV \pm 0.5 kV$.

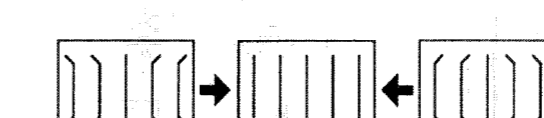
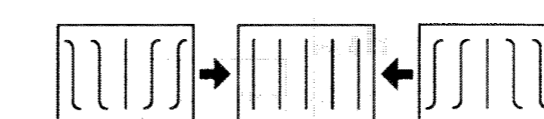
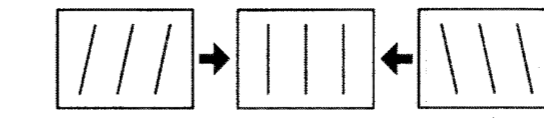
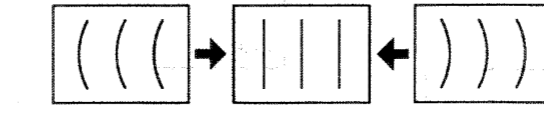
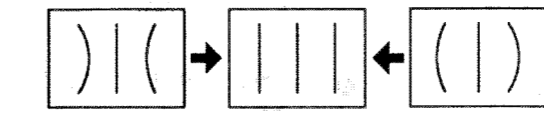
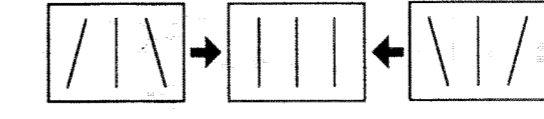
5-3. D2 BOARD ADJUSTMENT



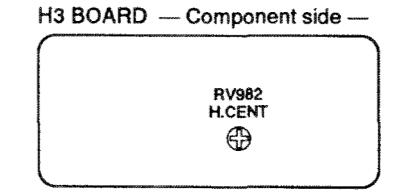
- V.Deflection Block (RV2500, RV2512, RV2513, RV2514)**
1. Receive a monoscope signal. Set PICTURE button to maximum and BRIGHTNESS button to standard.
 2. Set V.HOLD VR (vertical sync control) at the rear control panel to the mechanical center within the synchronizing range.
 3. Set vertical amplitude VR (RV2500), V.LIN.G VR (RV2514), V.LIN.B VR (RV2512) so that the vertical screen becomes optimum. Adjust vertical amplitude for 11.9 ± 0.1 division.
 4. Adjust vertical centering VR (RV2513) so that the screen becomes the vertical center.
 5. Turn V.HOLD VR control and confirm that the screen rolls up/down. After the confirmation, set it to the mechanical center.

H.Deflection Block (RV2510, RV2511, RV2515, RV2516, RV2517, RV2518, RV2519)

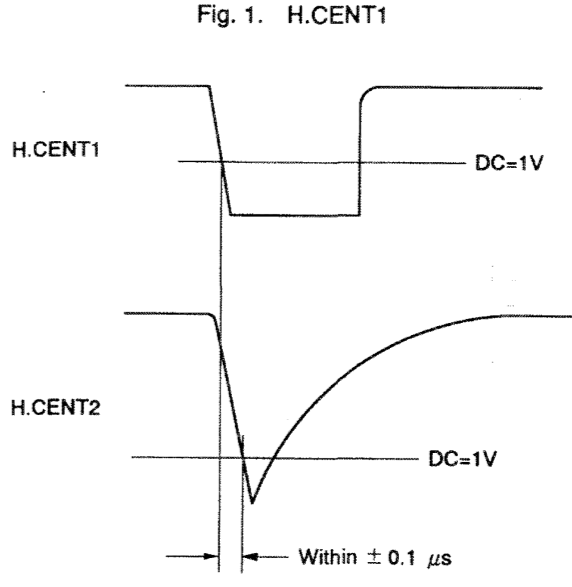
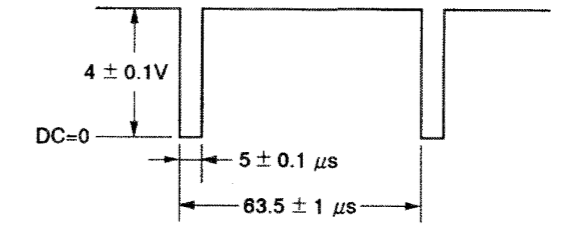
1. Receive monoscope signal and adjust with each VR.
 - (1) Adjust the pin phase with RV2519. (PIN PHASE)
 - (2) Adjust pin amplification with RV2515. (PIN AMP)
 - (3) Correct bow with RV2511. (C BOW)
 - (4) Adjust vertical angle with RV2510. (C ANGLE)
 - (5) Adjust upper and lower pincushions balance with RV2516. (PIN CORRECT)
 - (6) Adjust upper and lower pincushions amplification with RV2518. (C CORRECT)
2. Adjust horizontal amplitude VR (RV2517) for 15.8 ± 0.1 division.



5-4. H3 BOARD ADJUSTMENT

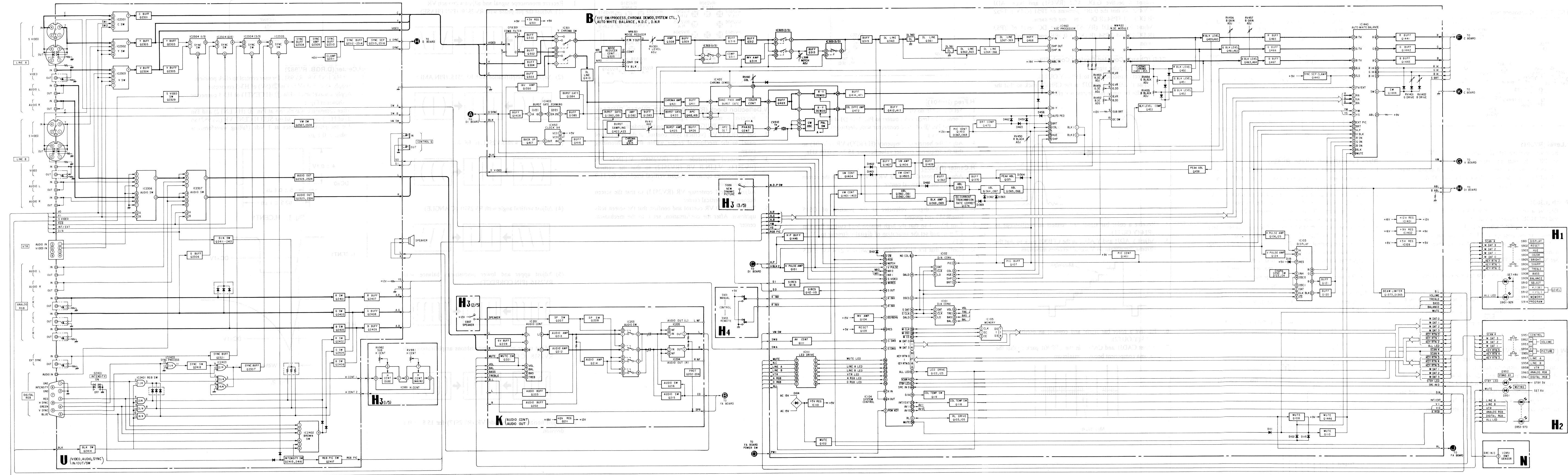


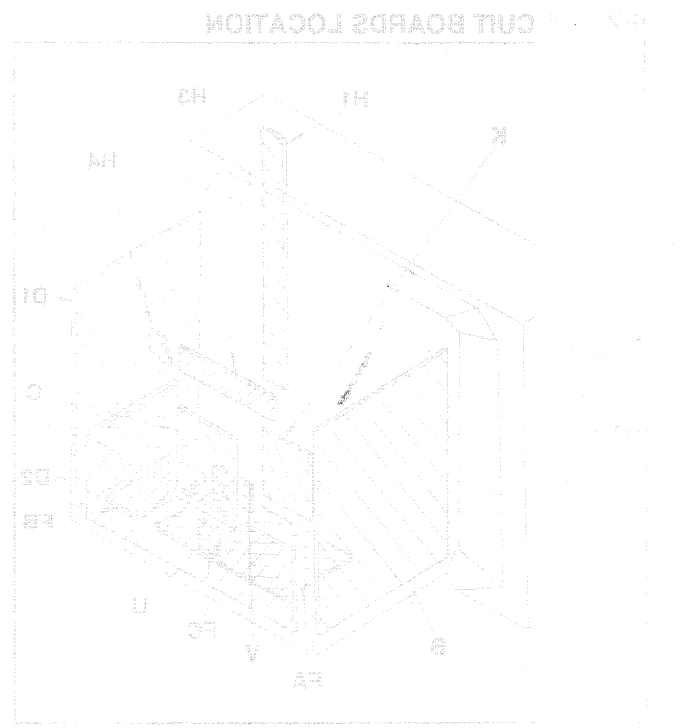
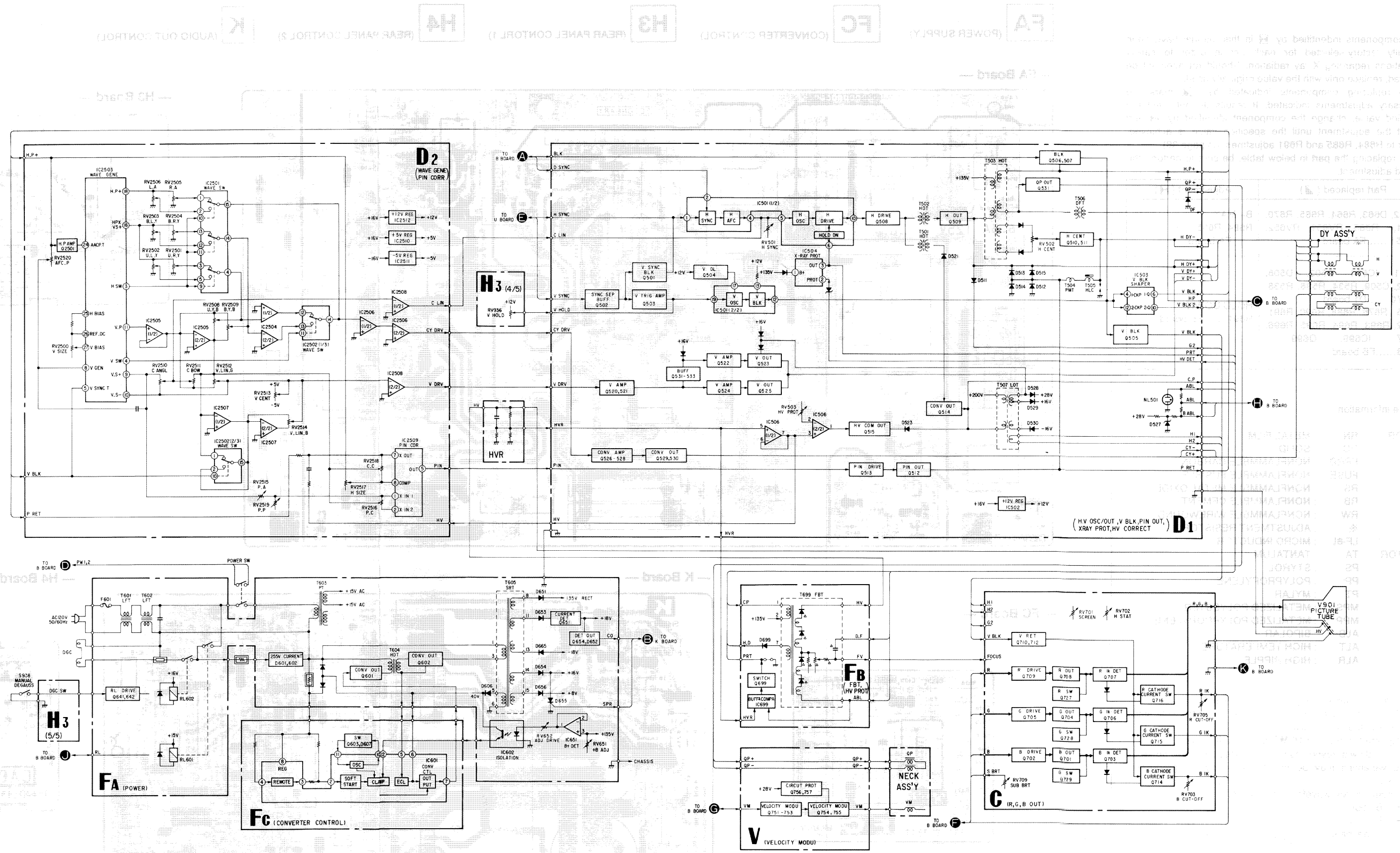
- H.Center (D.RGB, RV982)**
1. Set H.CENT VR (RV981) for user control to click position.
 2. Supply +5V ± 0.1V to Pin ② (5V) of H3-3 connector.
 3. Apply a waveform to Pin ① (H.CENT1) of H3-3 connector as shown in Fig. 1.
 4. After comparing waveforms at Pin ④ (H.CENT2) and Pin ① of H3-3 connector, adjust SUB H.CENT VR (RV982) so that the phase difference at 1 Vdc (falling waveform) is within ± 0.1 μs.



SECTION 6
DIAGRAMS

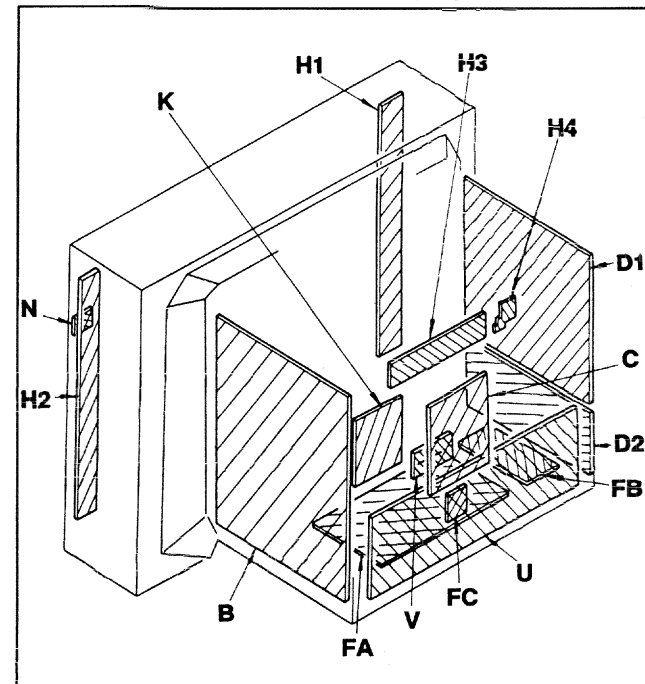
6-1. BLOCK DIAGRAMS





Reference information:
 The components identified by shading and marked with an asterisk (*) are critical for safety. Replace only with parts specified in the parts list.
 The components identified by shading and marked with an asterisk (*) are critical for safety. Replace only with parts specified in the parts list.

6-2. CIRCUIT BOARDS LOCATION



6-3. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS
— Conductor Side —

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

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

- Note:
- All capacitors are in μF unless otherwise noted. p: μF 50 WV or less are not indicated except for electrolytic and tantalums.
 - All resistors are in ohms. $k\Omega = 1000\Omega$, $M\Omega = 1000K\Omega$
 - All electrolytics are in 50V unless otherwise noted.
 - Indication of resistance, which does not have one for rating electrical power is as follows.

Pitch: 5 mm
Rating electrical power: 1/4W

- METAL FILM (:RN) resistors are in 1%, 1/6W unless otherwise noted.
- : nonflammable resistor.
- : fusible resistor.
- Δ : internal component.
- : panel designation or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

- 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.
 - When replacing components indicated by Δ mark the necessary adjustments indicated. If results do not meet the specified value, change the component identified by Δ and repeat the adjustment until the specified value is achieved. (Refer to R684, R685 and R691 adjustment on page 36)
- When replacing the part in below table, be sure to perform the related adjustment.

Part replaced (Δ)	Adjustment (Δ)
IC602, D663, R664, R665, R670, R684, R685, RV651, RV652, TH651FA board	B+ MAX R684, R685FA board
IC501, IC504, D503, D508, D552, C509, R534, R538, R538, R1570D1 board R675, R676, R688, R690, R691, R692, R693, R694, R695, R696, R697, IC699, Q699, D698.....FB board	HOLD DOWN R691FB board

Reference information

- RESISTOR
- RN : METAL FILM
 - RC : SOLID
 - FPRD : NONFLAMMABLE CARBON
 - FUSE : NONFLAMMABLE FUSIBLE
 - RS : NONFLAMMABLE METAL OXIDE
 - RB : NONFLAMMABLE CEMENT
 - RW : NONFLAMMABLE WIREWOUND
 - * : ADJUSTMENT RESISTOR
- COIL
- LF-8L : MICRO INDUCTOR
- CAPACITOR
- TA : TANTALUM
 - 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.
- As to the voltage value shown by the mark * on the Schematic Diagram, see the another list.
- Readings are taken with a 10 M Ω digital multimeter.
- Voltage are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- Circled numbers are waveform references.
- : B+ bus.
- : B- bus.
- : signal path.

FA (POWER SUPPLY)

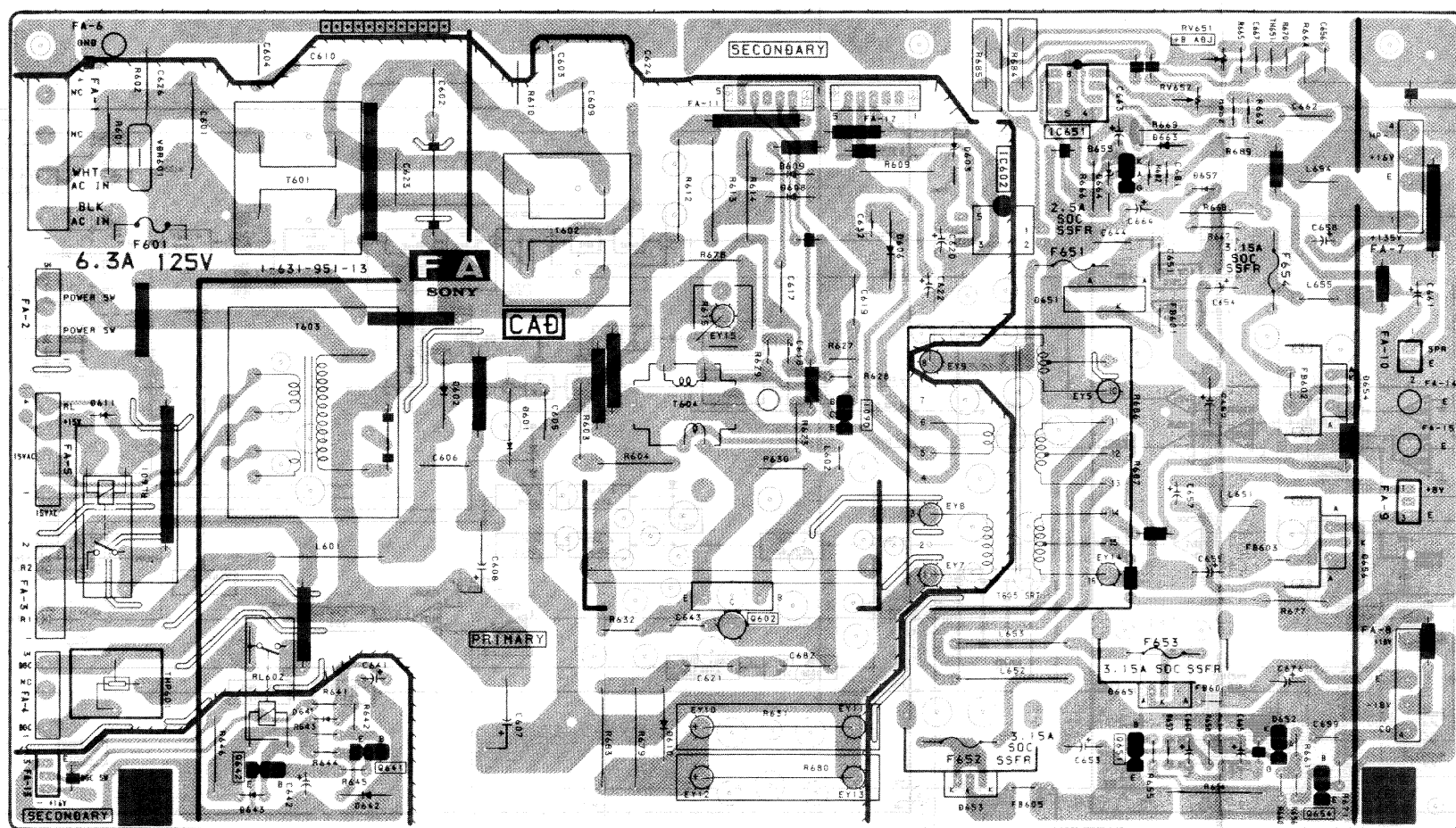
FC (CONVERTER CONTROL)

H3 (REAR PANEL CONTROL 1)

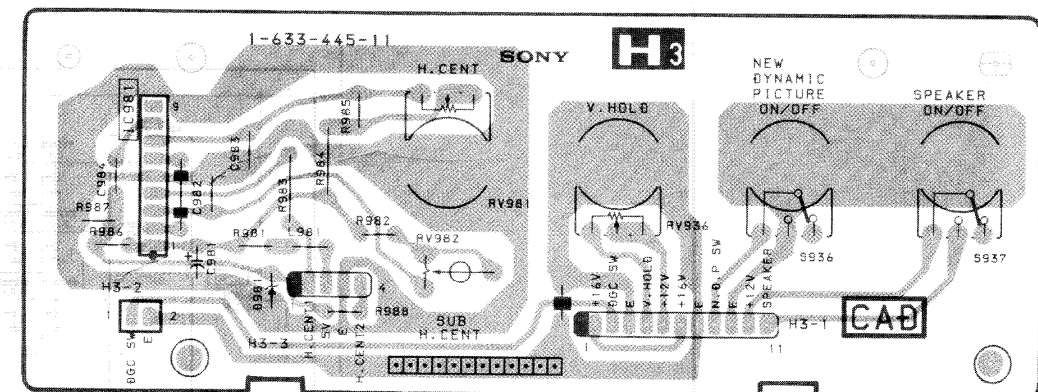
H4 (REAR PANEL CONTROL 2)

K (AUDIO OUT CONTROL)

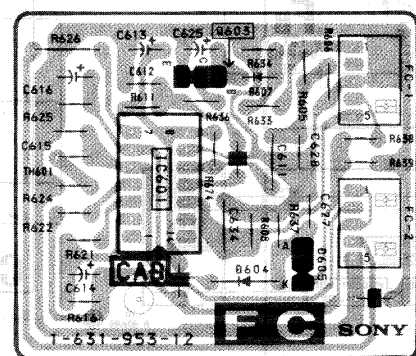
— FA Board —



— H3 Board —

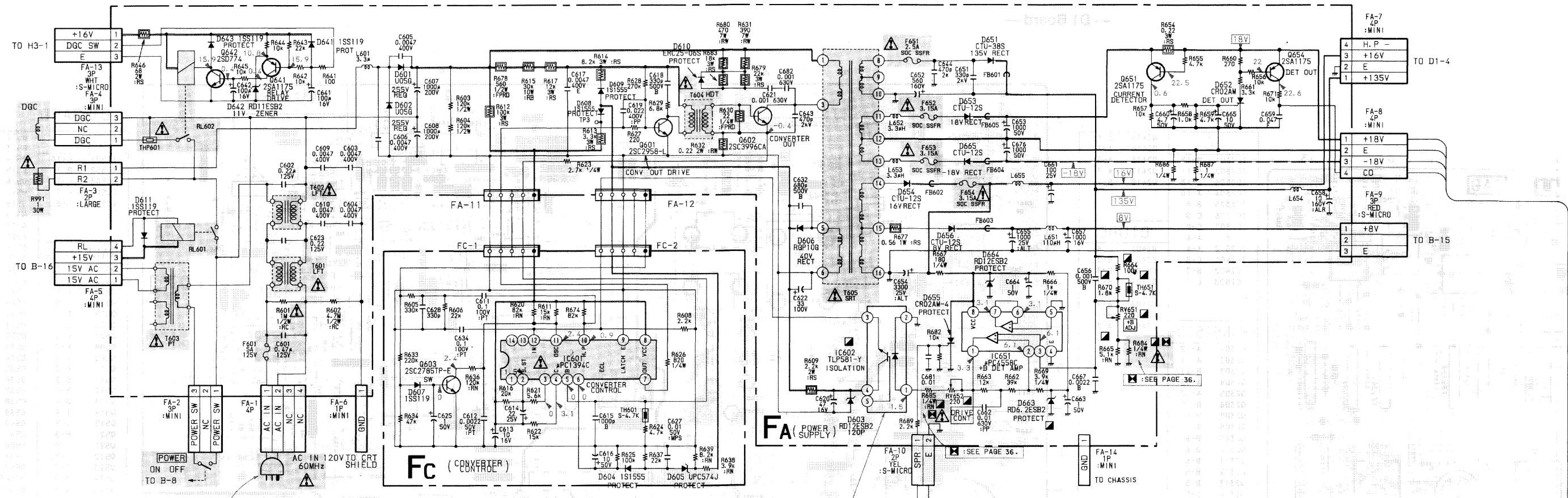


— FC Board —



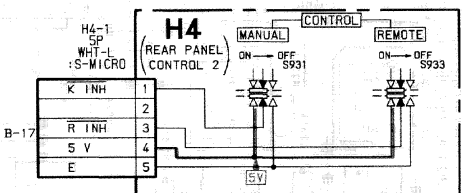
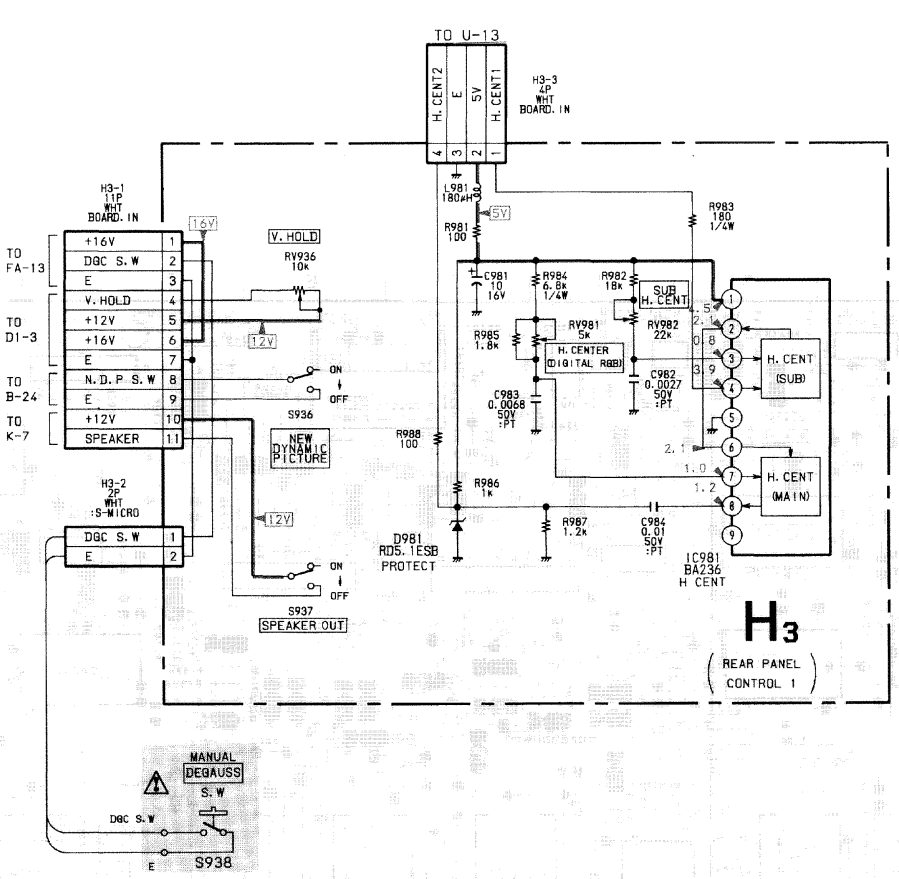
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

A
B
C
D
E
F
G
H
I
J

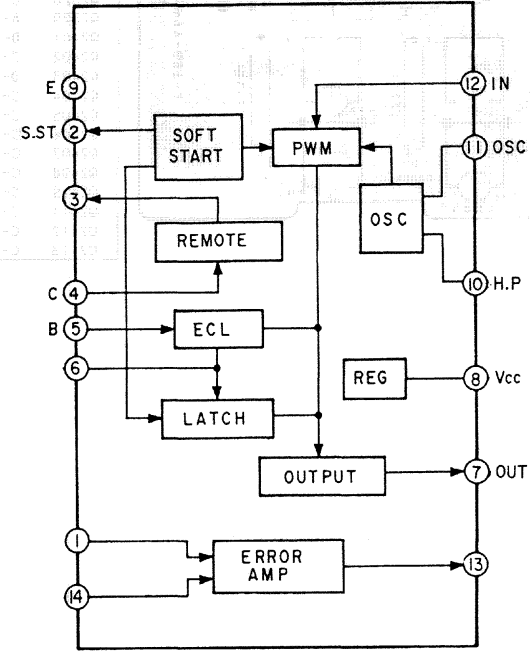


CAUTION
This set is equipped with a polarized ac power cord plug (one blade of the plug is wider than the other). When replacing the ac power cord, be sure to connect it with specified part number as shown in this diagram.

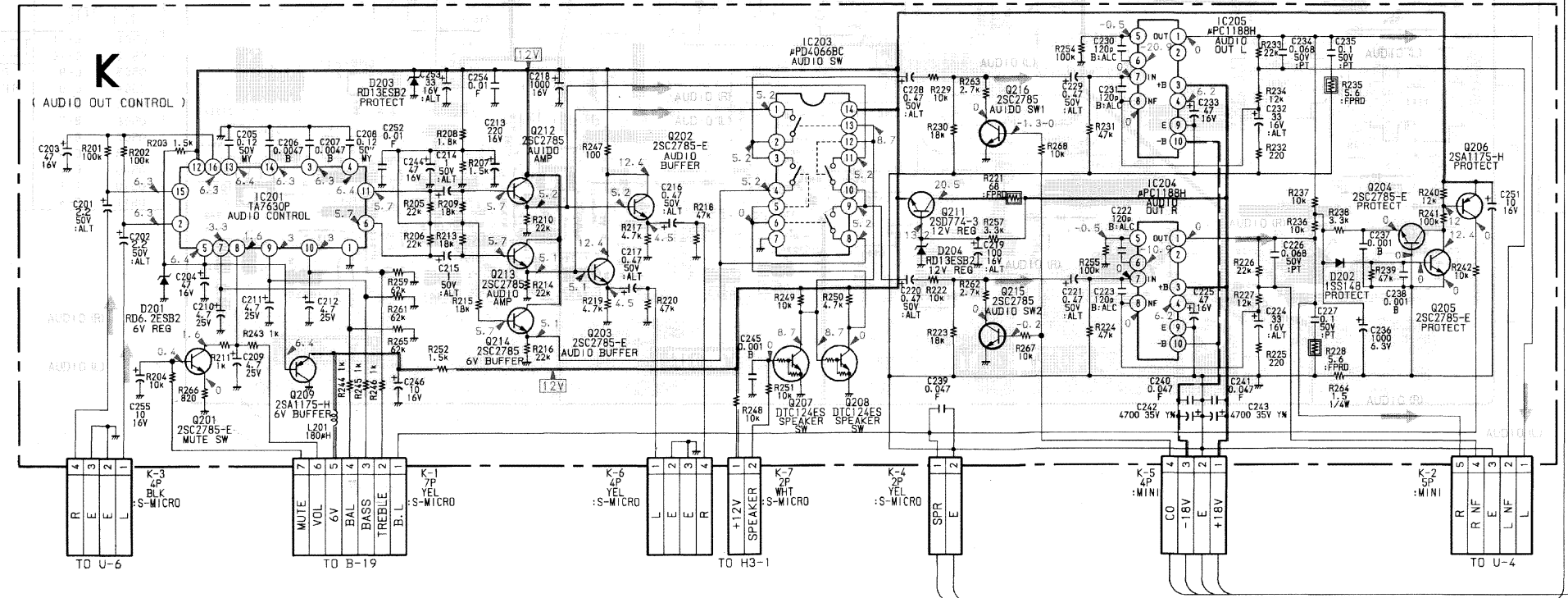
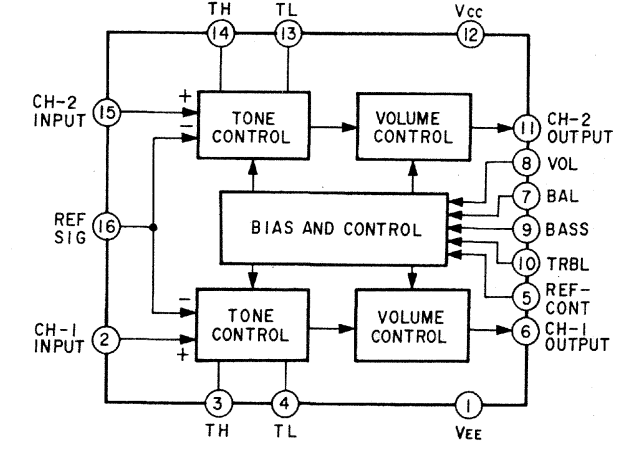
CAUTION
When replacing IC602 be sure to check the +B line voltage value. Refer to the Safety Adjustment Section.



FC BOARD IC601 uPC1394C



K BOARD IC201 TA7630P

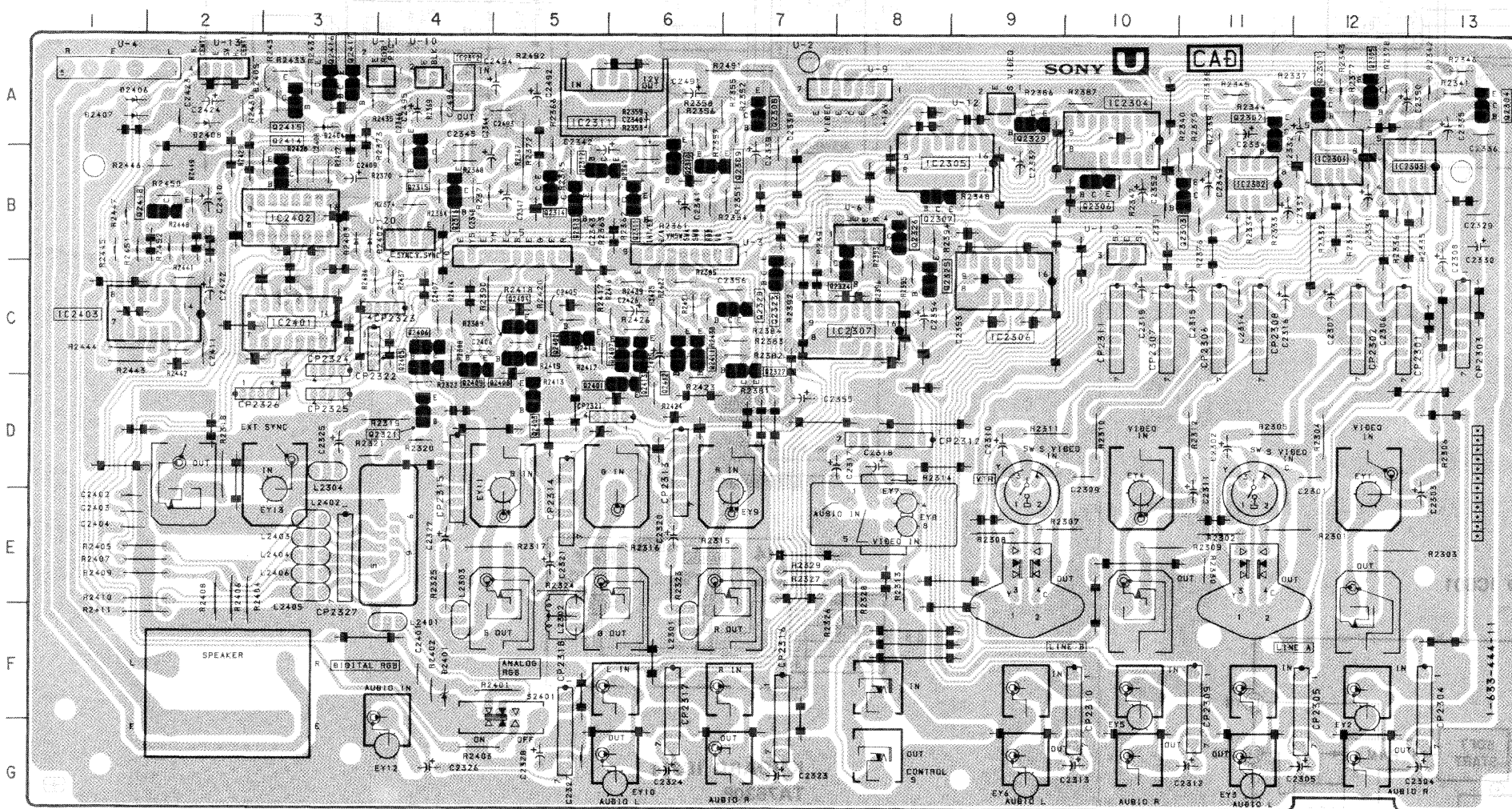


U (VIDEO/AUDIO/SYNC IN/OUT/SW)

D1 (H•V OSC, H•V OUT, V BLK SHAPE, HV CORRECT, PIN OUT, X RAY PROT)

— U Board —

— D1 Board —

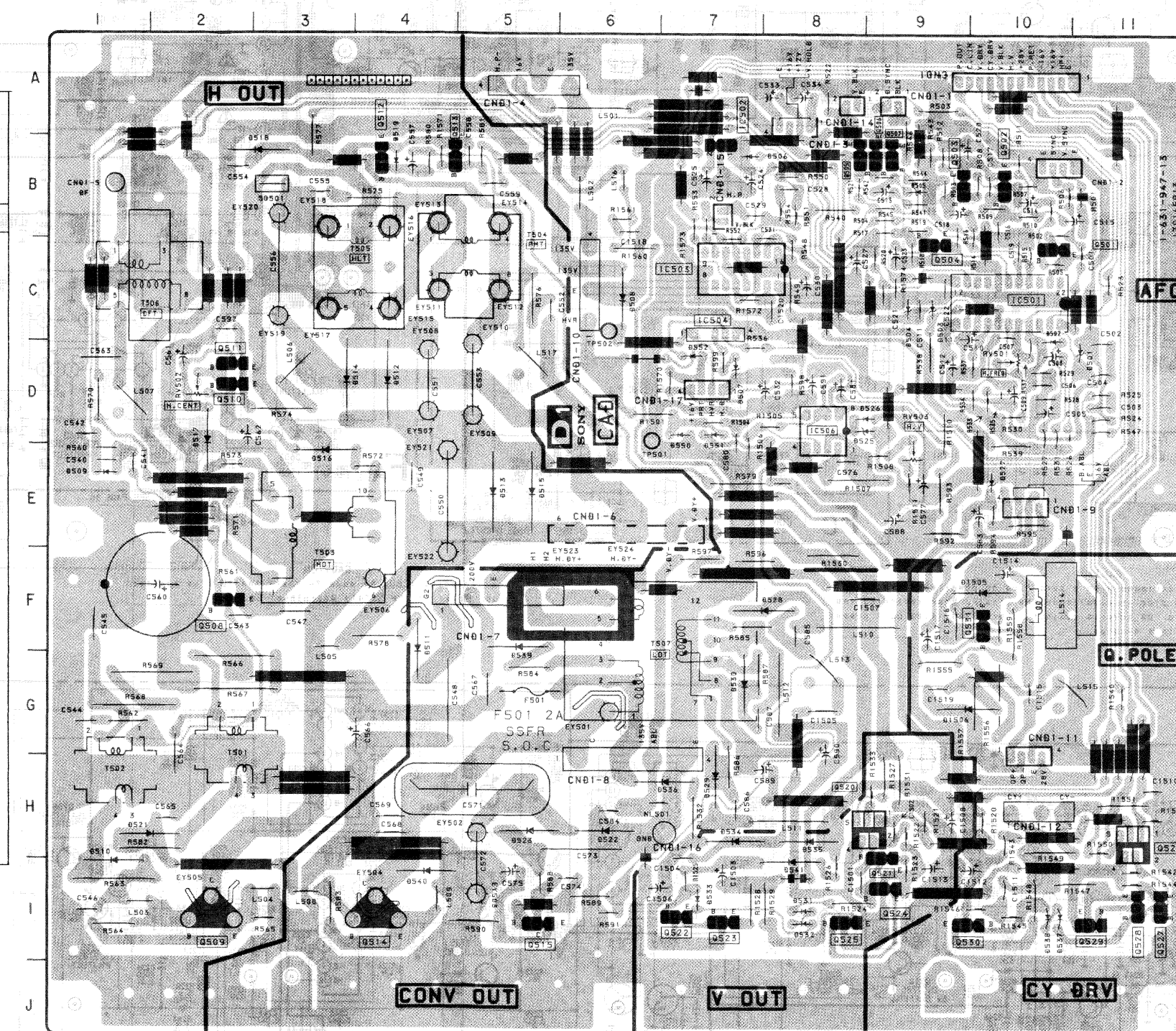


U BOARD

IC	IC	Q	R
IC2301	B-12	Q2414	B-3
IC2302	B-11	Q2415	A-3
IC2303	B-13	Q2416	A-3
IC2304	A-10	Q2417	A-3
IC2305	B-8	Q2418	B-2
IC2306	C-9		
IC2307	C-8		
IC2311	A-6		
IC2312	A-4		
IC2401	C-3		
IC2402	B-3		
IC2403	B-3		
IC2404	A-3		
IC2405	A-3		
IC2406	A-1		
IC2407	A-1		
IC2408	A-2		

DIODE	Q	R
Q2401	F-4	
Q2402	B-3	
Q2403	B-3	
Q2404	A-3	
Q2405	A-3	
Q2406	A-1	
Q2407	A-1	
Q2408	A-2	

TRANSISTOR	Q	R
Q2301	A-12	
Q2302	A-11	
Q2303	B-11	
Q2304	A-13	
Q2305	A-12	
Q2306	B-10	
Q2307	B-8	
Q2308	A-7	
Q2309	B-6	
Q2310	B-6	
Q2311	B-6	
Q2312	B-5	
Q2313	B-5	
Q2314	B-5	
Q2315	B-4	
Q2316	B-4	
Q2321	0-5	
Q2323	C-7	
Q2324	C-8	
Q2325	C-8	
Q2326	B-8	
Q2327	C-7	
Q2328	C-7	
Q2329	A-9	
Q2401	B-6	
Q2402	C-5	
Q2403	0-5	
Q2404	C-5	
Q2405	C-4	
Q2406	C-4	
Q2407	C-6	
Q2408	C-5	
Q2409	C-4	
Q2411	C-6	
Q2412	C-6	
Q2413	C-6	



D1 BOARD

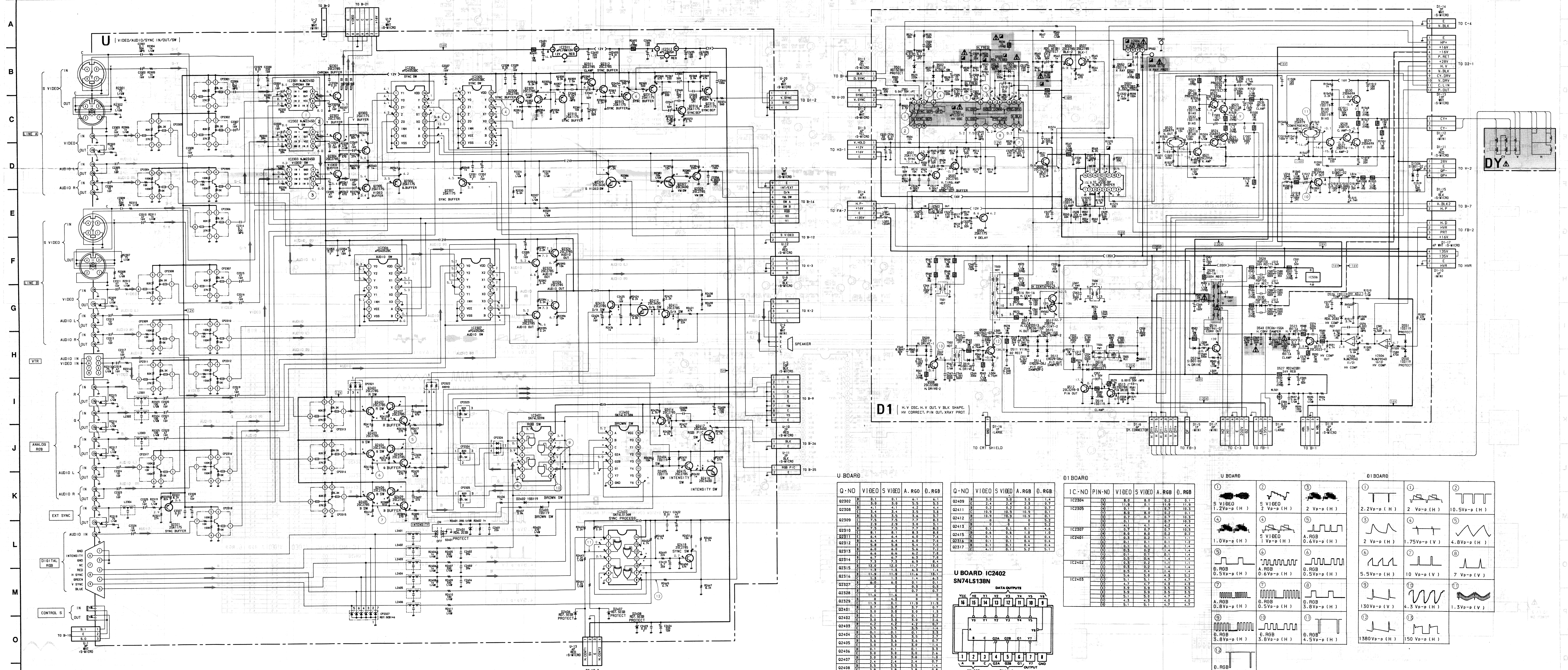
IC	Q	R
IC501	C-10	0512
IC502	B-7	0513
IC503	C-7	0514
IC504	C-7	0515
IC506	0-8	0516
		0517
		0518
		0519
		0521
		0522
		0523
		0525
		0526
		0527
		0528
		0529
		0530
		0531

TRANSISTOR	Q	R
Q501	C-10	0526
Q502	B-10	0527
Q503	B-9	0528
Q504	C-9	0529
Q505	B-8	0530
Q506	B-9	0531
Q507	B-9	0532
Q508	F-2	0533
Q509	I-2	0534
Q510	0-2	0535
Q511	0-2	0536
Q512	B-4	0537
Q513	B-4	0538
Q514	I-4	0539
Q515	I-5	0540
Q520	H-8	0541
Q521	I-9	0550
Q522	I-7	0551
Q523	I-7	0552
Q524	I-9	01505
Q525	I-8	01506
Q526	H-11	
Q527	I-11	
Q528	I-11	
Q529	I-11	
Q530	I-9	
Q531	F-10	

ADJ	Q	R
RV501	0-10	
RV502	0-2	
RV503	E-9	

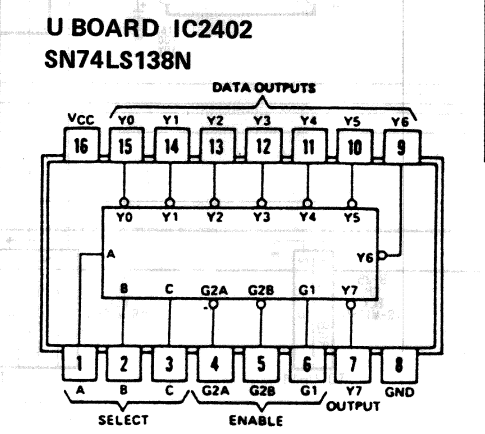
DIODE	Q	R
Q501	0-11	
Q502	C-10	
Q503	C-9	
Q504	C-9	
Q505	0-9	
Q506	B-7	
Q507	B-7	
Q508	C-6	
Q509	E-1	
Q510	I-1	
Q511	F-4	

TEST POINT	Q	R
TP501	0-6	
TP502	C-6	



U BOARD

Q. NO	VIDEO	S VIDEO	A. RGB	D. RGB
Q2302	B	0.1	0.1	1.1
Q2303	B	0.0	0.0	5.5
Q2411	B	0.1	0.1	0.2
Q2309	C	3.5	3.5	3.6
Q2310	C	2.9	2.9	3.0
Q2311	C	2.7	2.7	2.7
Q2312	B	6.4	6.4	6.0
Q2313	B	6.0	6.0	5.8
Q2314	B	6.0	6.0	6.2
Q2315	B	7.3	7.3	6.9
Q2316	C	1.3	1.3	1.4
Q2327	B	0.0	0.0	0.3
Q2328	B	0	0	0.2
Q2329	C	11.6	11.6	0
Q2401	B	0.0	0.0	0.0
Q2402	B	0.1	0.1	0.1
Q2403	B	4.2	4.2	4.2
Q2404	B	3.5	3.5	3.5
Q2405	B	3.5	3.5	3.5
Q2406	B	3.0	3.0	3.0
Q2407	B	3.0	3.0	3.0
Q2408	B	3.5	3.5	3.5



D1 BOARD

IC. NO	PIN. NO	VIDEO	S VIDEO	A. RGB	D. RGB
IC2304	(1)	8.0	8.0	0.2	0.1
IC2305	(1)	10.0	0.1	11.0	11.0
IC2307	(1)	0.7	0.7	10.9	0.1
IC2401	(1)	4.1	4.1	4.2	4.2
IC2402	(1)	0.0	0.0	0.2	1.1
IC2403	(1)	0.0	0.0	0.1	1.1
IC2404	(1)	0.0	0.0	0.1	1.1
IC2405	(1)	0.0	0.0	0.1	1.1
IC2406	(1)	0.0	0.0	0.1	1.1
IC2407	(1)	0.0	0.0	0.1	1.1
IC2408	(1)	0.0	0.0	0.1	1.1
IC2409	(1)	0.0	0.0	0.1	1.1
IC2410	(1)	0.0	0.0	0.1	1.1
IC2411	(1)	0.0	0.0	0.1	1.1
IC2412	(1)	0.0	0.0	0.1	1.1
IC2413	(1)	0.0	0.0	0.1	1.1
IC2414	(1)	0.0	0.0	0.1	1.1
IC2415	(1)	0.0	0.0	0.1	1.1
IC2416	(1)	0.0	0.0	0.1	1.1
IC2417	(1)	0.0	0.0	0.1	1.1
IC2418	(1)	0.0	0.0	0.1	1.1
IC2419	(1)	0.0	0.0	0.1	1.1
IC2420	(1)	0.0	0.0	0.1	1.1
IC2421	(1)	0.0	0.0	0.1	1.1
IC2422	(1)	0.0	0.0	0.1	1.1
IC2423	(1)	0.0	0.0	0.1	1.1
IC2424	(1)	0.0	0.0	0.1	1.1
IC2425	(1)	0.0	0.0	0.1	1.1
IC2426	(1)	0.0	0.0	0.1	1.1
IC2427	(1)	0.0	0.0	0.1	1.1
IC2428	(1)	0.0	0.0	0.1	1.1
IC2429	(1)	0.0	0.0	0.1	1.1
IC2430	(1)	0.0	0.0	0.1	1.1
IC2431	(1)	0.0	0.0	0.1	1.1
IC2432	(1)	0.0	0.0	0.1	1.1
IC2433	(1)	0.0	0.0	0.1	1.1
IC2434	(1)	0.0	0.0	0.1	1.1
IC2435	(1)	0.0	0.0	0.1	1.1
IC2436	(1)	0.0	0.0	0.1	1.1
IC2437	(1)	0.0	0.0	0.1	1.1
IC2438	(1)	0.0	0.0	0.1	1.1
IC2439	(1)	0.0	0.0	0.1	1.1
IC2440	(1)	0.0	0.0	0.1	1.1
IC2441	(1)	0.0	0.0	0.1	1.1
IC2442	(1)	0.0	0.0	0.1	1.1
IC2443	(1)	0.0	0.0	0.1	1.1
IC2444	(1)	0.0	0.0	0.1	1.1
IC2445	(1)	0.0	0.0	0.1	1.1
IC2446	(1)	0.0	0.0	0.1	1.1
IC2447	(1)	0.0	0.0	0.1	1.1
IC2448	(1)	0.0	0.0	0.1	1.1

U BOARD

1	S VIDEO	2	S VIDEO	3	2 Vp-p (H)
4	1.0Vp-p (H)	5	S VIDEO	6	A. RGB
7	0.5Vp-p (H)	8	A. RGB	9	0.6Vp-p (H)
10	0.8Vp-p (H)	11	S VIDEO	12	0.8Vp-p (H)
13	0.8Vp-p (H)	14	A. RGB	15	0.8Vp-p (H)
16	0.8Vp-p (H)	17	S VIDEO	18	0.8Vp-p (H)
19	0.8Vp-p (H)	20	A. RGB	21	0.8Vp-p (H)
22	0.8Vp-p (H)	23	S VIDEO	24	0.8Vp-p (H)
25	0.8Vp-p (H)	26	A. RGB	27	0.8Vp-p (H)
28	0.8Vp-p (H)	29	S VIDEO	30	0.8Vp-p (H)
31	0.8Vp-p (H)	32	A. RGB	33	0.8Vp-p (H)
34	0.8Vp-p (H)	35	S VIDEO	36	0.8Vp-p (H)
37	0.8Vp-p (H)	38	A. RGB	39	0.8Vp-p (H)
40	0.8Vp-p (H)	41	S VIDEO	42	0.8Vp-p (H)
43	0.8Vp-p (H)	44	A. RGB	45	0.8Vp-p (H)
46	0.8Vp-p (H)	47	S VIDEO	48	0.8Vp-p (H)
49	0.8Vp-p (H)	50	A. RGB	51	0.8Vp-p (H)
52	0.8Vp-p (H)	53	S VIDEO	54	0.8Vp-p (H)
55	0.8Vp-p (H)	56	A. RGB	57	0.8Vp-p (H)
58	0.8Vp-p (H)	59	S VIDEO	60	0.8Vp-p (H)
61	0.8Vp-p (H)	62	A. RGB	63	0.8Vp-p (H)
64	0.8Vp-p (H)	65	S VIDEO	66	0.8Vp-p (H)
67	0.8Vp-p (H)	68	A. RGB	69	0.8Vp-p (H)
70	0.8Vp-p (H)	71	S VIDEO	72	0.8Vp-p (H)
73	0.8Vp-p (H)	74	A. RGB	75	0.8Vp-p (H)
76	0.8Vp-p (H)	77	S VIDEO	78	0.8Vp-p (H)
79	0.8Vp-p (H)	80	A. RGB	81	0.8Vp-p (H)
82	0.8Vp-p (H)	83	S VIDEO	84	0.8Vp-p (H)
85	0.8Vp-p (H)	86	A. RGB	87	0.8Vp-p (H)
88	0.8Vp-p (H)	89	S VIDEO	90	0.8Vp-p (H)
91	0.8Vp-p (H)	92	A. RGB	93	0.8Vp-p (H)
94	0.8Vp-p (H)	95	S VIDEO	96	0.8Vp-p (H)
97	0.8Vp-p (H)	98	A. RGB	99	0.8Vp-p (H)
100	0.8Vp-p (H)	101	S VIDEO	102	0.8Vp-p (H)
103	0.8Vp-p (H)	104	A. RGB	105	0.8Vp-p (H)
106	0.8Vp-p (H)	107	S VIDEO	108	0.8Vp-p (H)
109	0.8Vp-p (H)	110	A. RGB	111	0.8Vp-p (H)
112	0.8Vp-p (H)	113	S VIDEO	114	0.8Vp-p (H)
115	0.8Vp-p (H)	116	A. RGB	117	0.8Vp-p (H)
118	0.8Vp-p (H)	119	S VIDEO	120	0.8Vp-p (H)
121	0.8Vp-p (H)	122	A. RGB	123	0.8Vp-p (H)
124	0.8Vp-p (H)	125	S VIDEO	126	0.8Vp-p (H)
127	0.8Vp-p (H)	128	A. RGB	129	0.8Vp-p (H)
130	0.8Vp-p (H)	131	S VIDEO	132	0.8Vp-p (H)
133	0.8Vp-p (H)	134	A. RGB	135	0.8Vp-p (H)
136	0.8Vp-p (H)	137	S VIDEO	138	0.8Vp-p (H)
139	0.8Vp-p (H)	140	A. RGB	141	0.8Vp-p (H)
142	0.8Vp-p (H)	143	S VIDEO	144	0.8Vp-p (H)
145	0.8Vp-p (H)	146	A. RGB	147	0.8Vp-p (H)
148	0.8Vp-p (H)	149	S VIDEO	150	0.8Vp-p (H)
151	0.8Vp-p (H)	152	A. RGB	153	0.8Vp-p (H)
154	0.8Vp-p (H)	155	S VIDEO	156	0.8Vp-p (H)
157	0.8Vp-p (H)	158	A. RGB	159	0.8Vp-p (H)
160	0.8Vp-p (H)	161	S VIDEO	162	0.8Vp-p (H)</

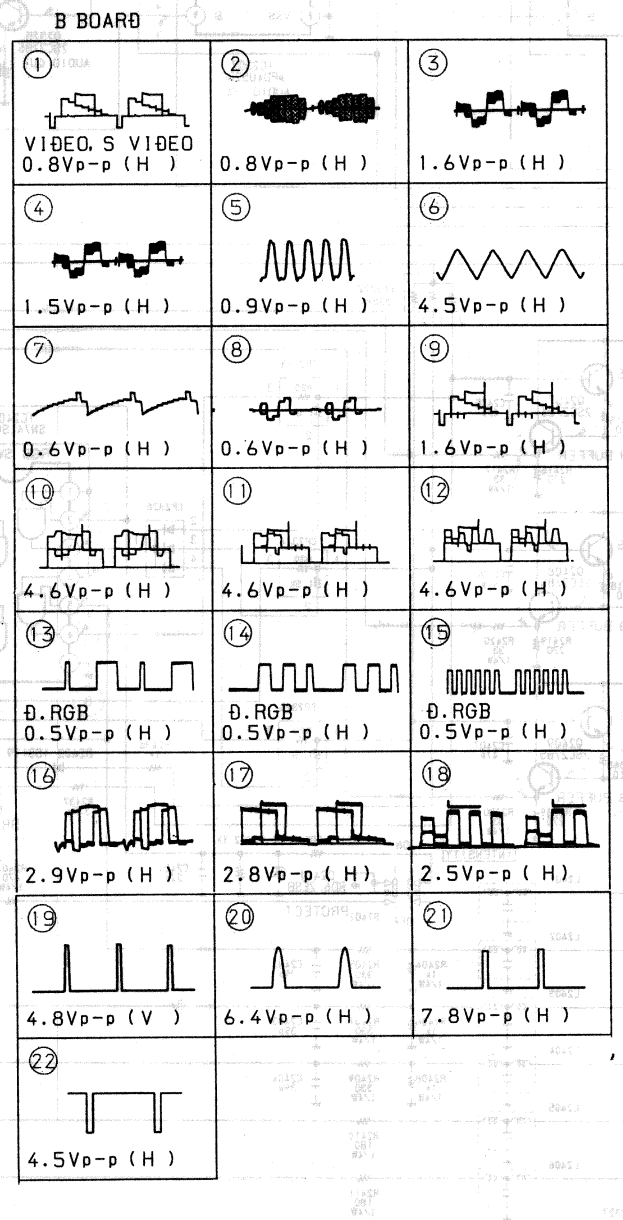
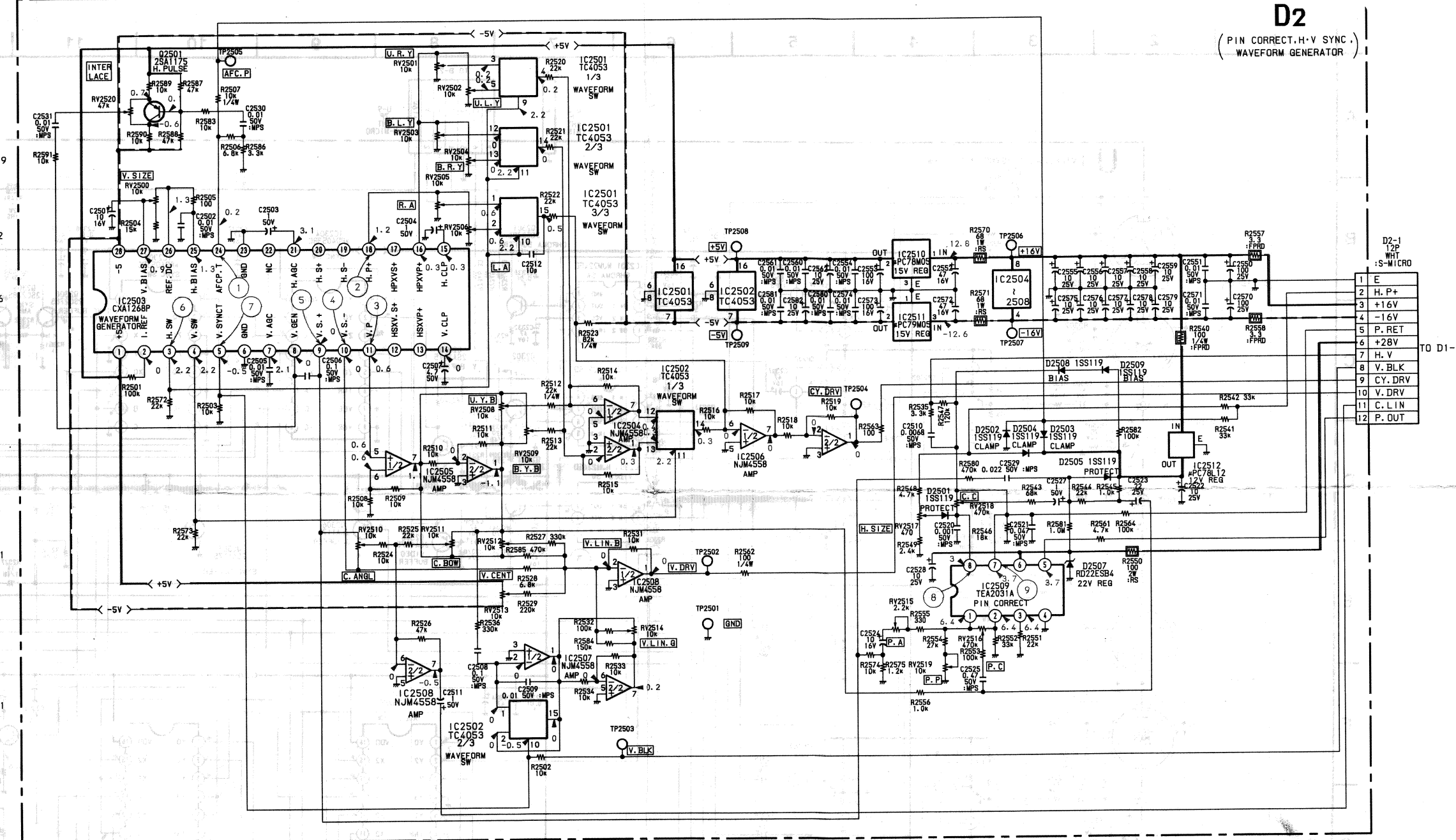
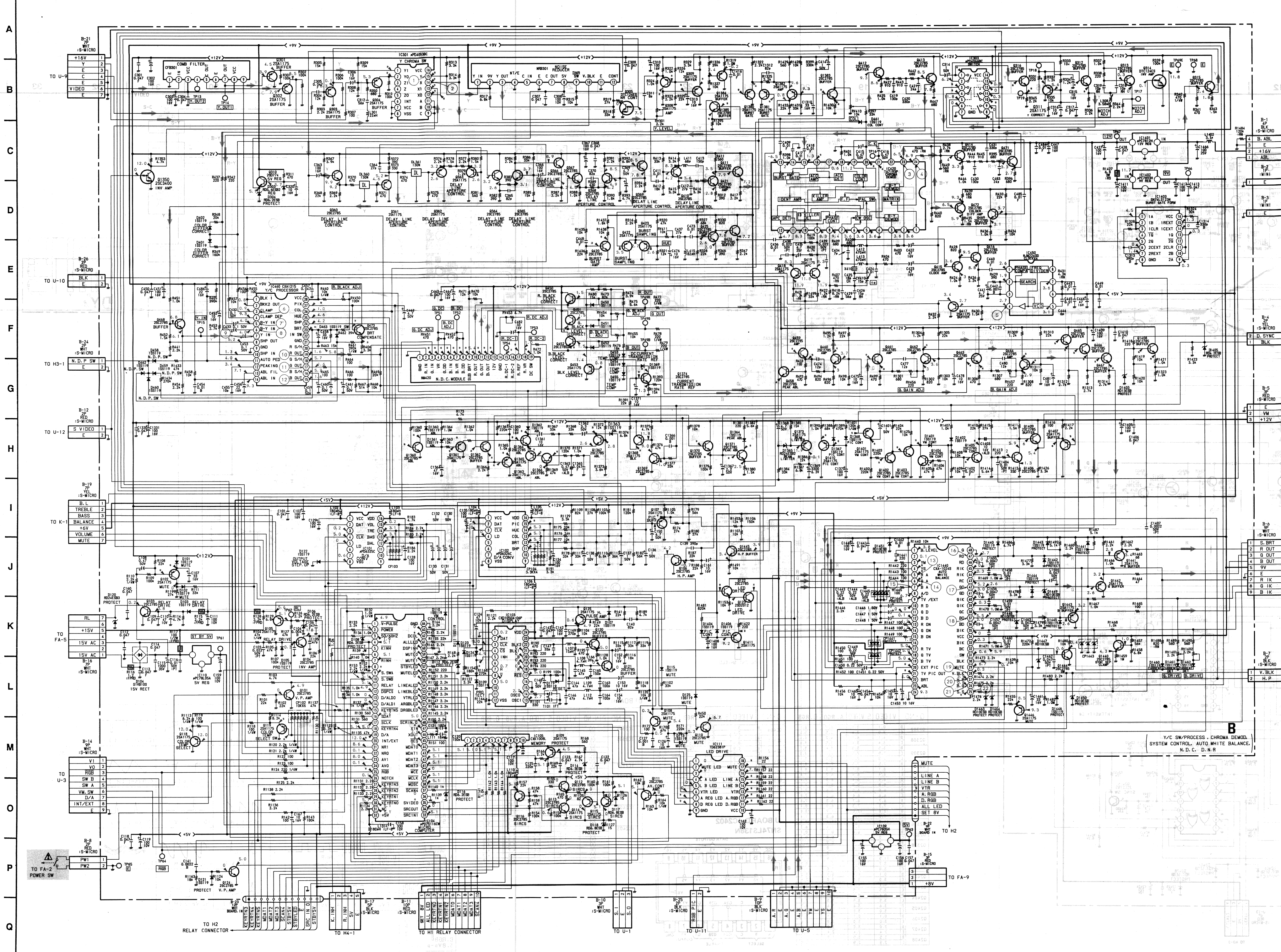


Table with 4 columns: IC-NO, PIN-NO, VIDEO, S VIDEO, A, RGB, D, RGB. Lists IC numbers and pin numbers for various components on the B BOARD.

Table with 4 columns: Q-NO, VIDEO, S VIDEO, A, RGB, D, RGB. Lists component numbers and their signal characteristics for the B BOARD.

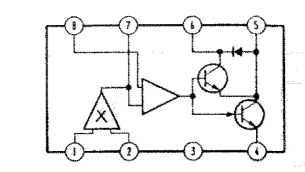
Table with 4 columns: Q-NO, VIDEO, S VIDEO, A, RGB, D, RGB. Lists component numbers and their signal characteristics for the D2 BOARD.

B (Y/C SW/PROCESS, CHROMA DEMOD, SYSTEM CONTROL, AUTO WHITE BALANCE, N.D.C. D.N.R.)

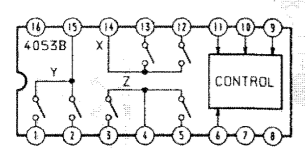
D2 (PIN CORRECT, H-V SYNC, WAVEFORM GENERATOR)

— B Board —

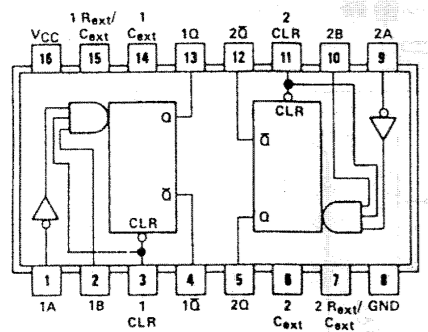
D2 BOARD IC2509
TEA2031A



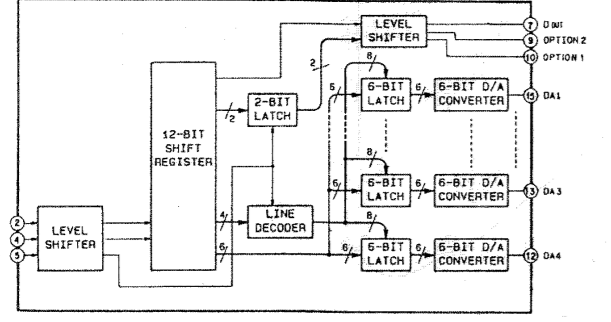
B BOARD IC301
uPD4053BC



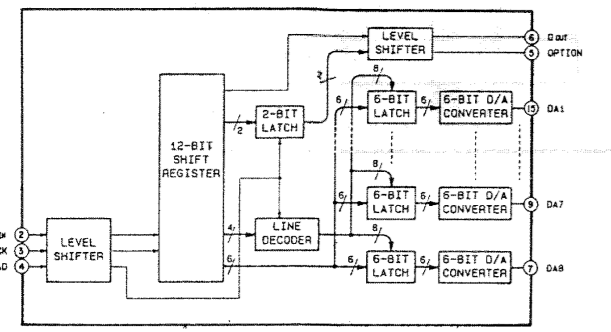
B BOARD IC1403
SN74LS123N



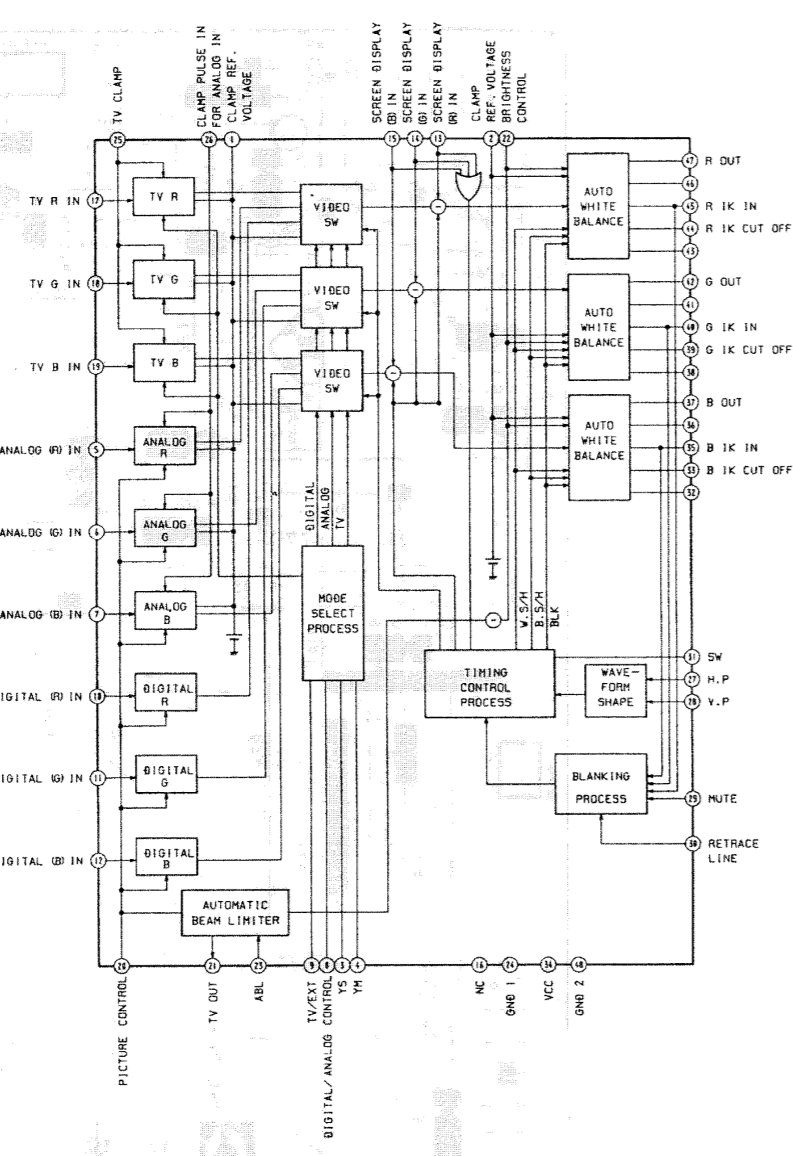
B BOARD IC101
uPD6325C



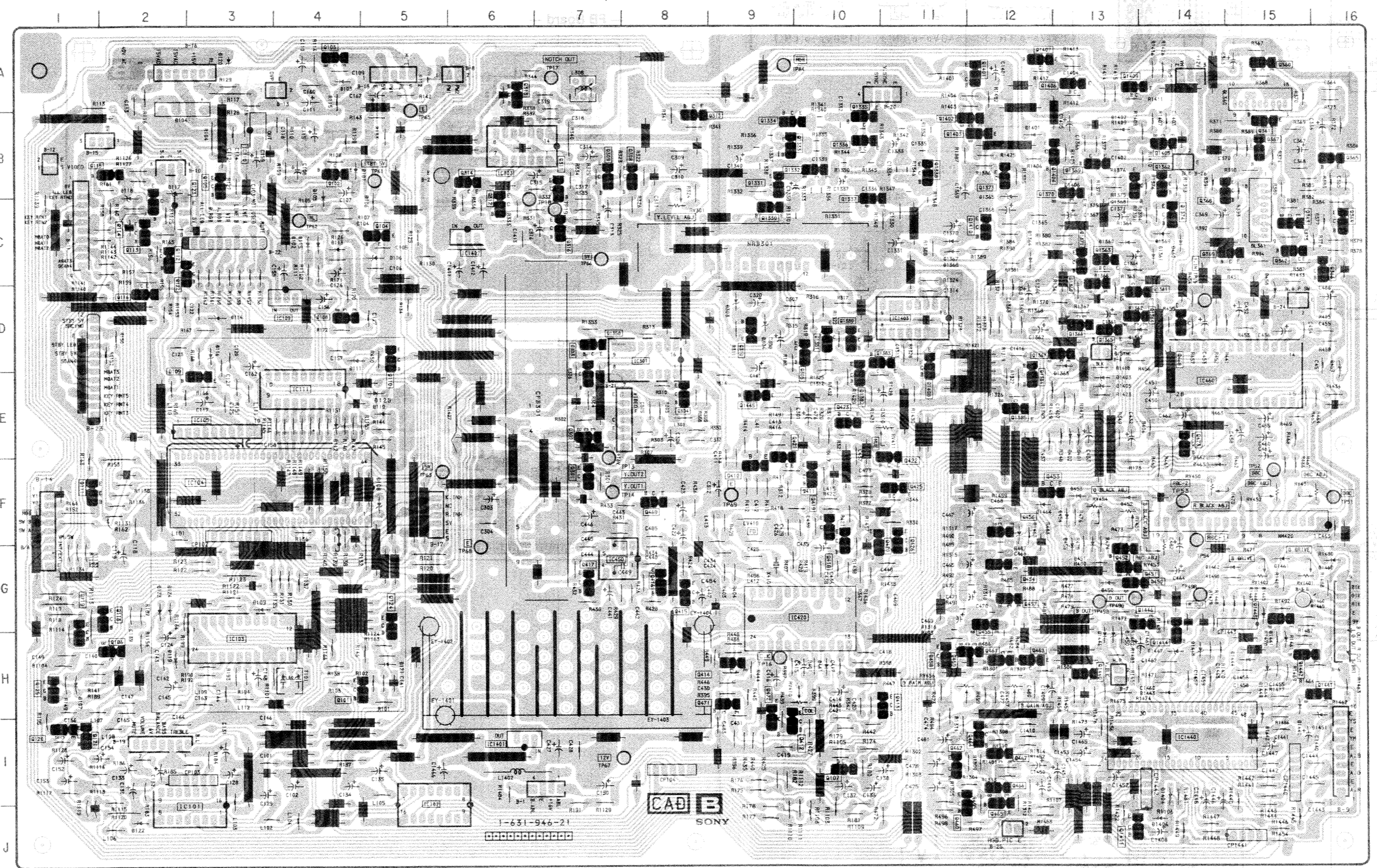
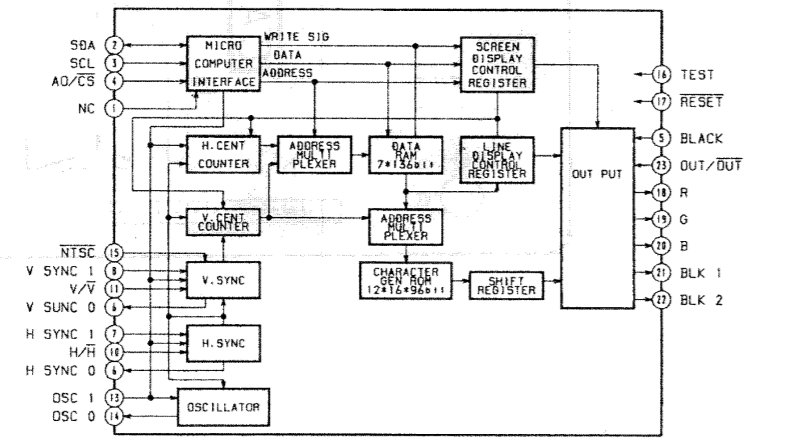
B BOARD IC102
uPD6326C



B BOARD IC1440
CXA1024S



B BOARD IC103
CXD1050A-06P



BBOARD

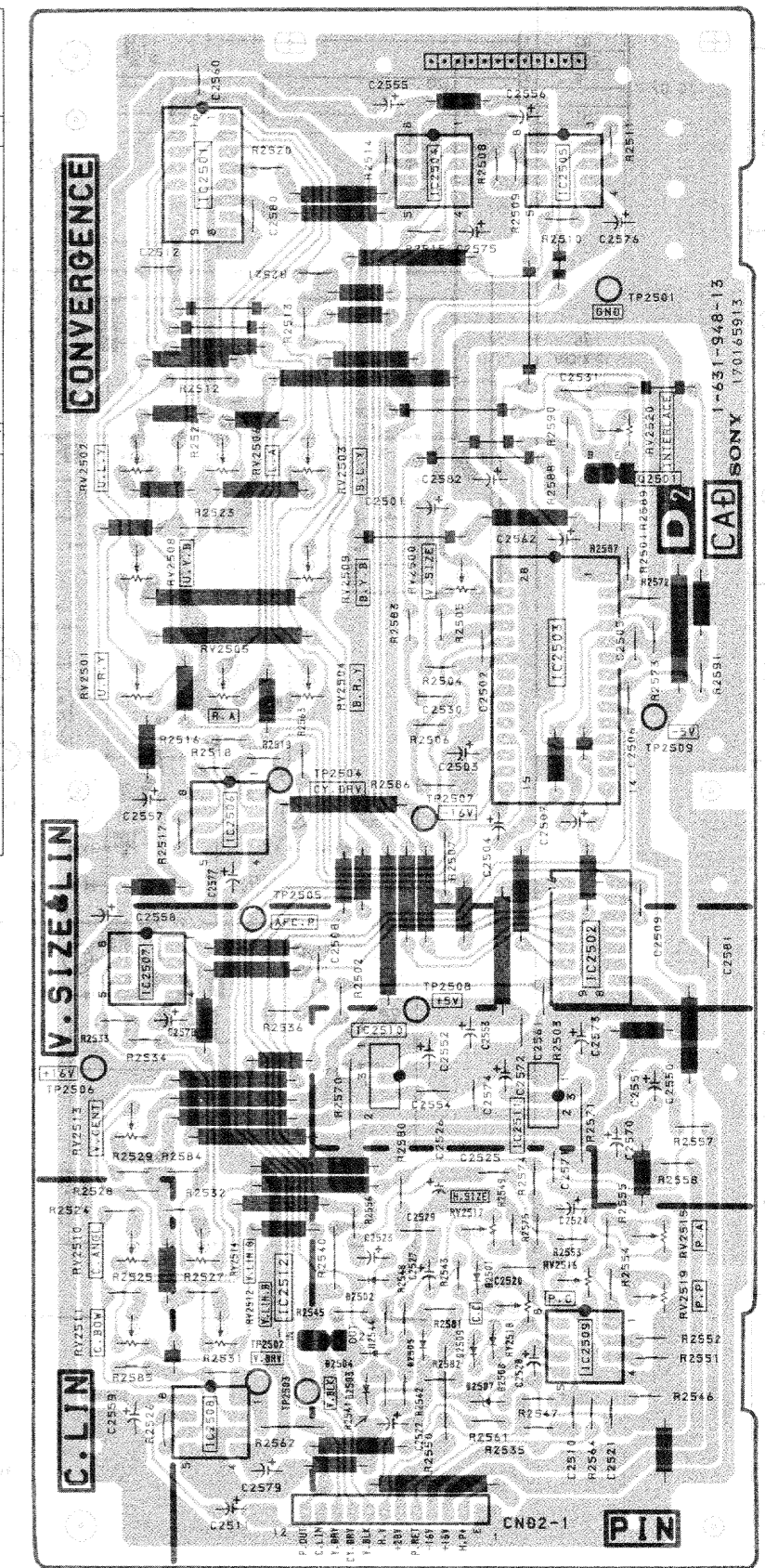
IC	IC	IC	IC	IC	IC	IC	IC
IC101 J-2	0110 D-9	01362 B-14	0115 C-4	D1461 G-15			
IC102 J-5	0311 B-7	01363 C-13	0116 G-8	D1462 G-15			
IC103 H-3	0312 C-6	01364 G-14	0117 B-2	D1463 F-12			
IC104 F-3	0315 B-8	01365 G-13	0118 C-2	D1464 F-13			
IC105 E-3	0316 C-7	01366 B-14	0121 H-5				
IC109 B-4	0540 A-15	01369 B-13	0122 J-2				
IC110 B-4	0261 B-15	01370 B-13	0123 A-2				
IC111 E-4	0362 C-15	01371 C-13	0124 G-2				
IC301 B-8	0565 C-15	01373 B-12	0125 E-5				
IC303 B-6	0264 C-16	01374 C-14	0126 G-9				
IC420 G-10	0565 B-16	01380 G-10	0304 B-10				
IC450 G-8	0566 C-16	01381 G-10	0401 E-15				
IC460 E-15	0567 B-15	01382 E-10	0402 E-13				
IC1401 I-6	0568 B-15	01385 B-11	0405 G-15				
IC1402 C-6	0569 C-15	01384 E-12	0451 G-13				
IC1403 B-11	0610 F-9	01385 E-12	0452 F-13				
IC1440 1-14	0411 F-10	01401 A-12	0453 F-13				
	0412 I-10	01402 B-12	0454 F-13				
	0415 H-11	01403 B-12	0455 G-13				
	0414 H-9	01404 B-13	0458 G-15				
	0415 G-8	01405 B-14	0459 E-16				
	0416 G-8	01406 A-13	0460 C-14				
	0417 G-7	01407 A-13	0461 H-10				
	0418 G-10	01408 E-11	0462 F-15				
	0419 F-10	01409 A-14	0465 F-15				
	0420 F-11	01410 C-12	0365 C-14				
	0421 F-9	01411 J-14	0361 C-14				
	0422 F-11	01410 H-13	0362 D-14				
	0423 E-10	01441 H-16	0363 B-13				
	0425 F-11	01442 H-16	0364 C-12				
	0426 F-11	01443 G-15	0365 B-12				
	0450 G-14	01444 H-14	0367 C-11				
	0451 G-14	01445 E-9	0368 C-11				
	0452 G-15	01401 B-12	0369 C-14				
	0458 H-11	01402 B-13	0371 F-16				
	0459 H-12	01403 B-13	0372 F-15				
	0460 J-12	01404 J-14	0375 F-14				
	0461 I-11	01406 J-14	0376 G-14				
	0462 J-12	01407 J-14	0377 G-14				
	0463 A-4	01408 H-15	0378 A-9				
	0464 I-12	01409 A-14	0379 A-9				
	0465 J-12	01410 C-12	0381 A-9				
	0466 I-12	01005 B-4	04443 H-14				
	0467 I-12	01006 C-5	04444 H-15				
	0468 D-14	01007 H-1	04445 H-15				
	0469 F-8	01008 F-5	04446 H-13				
	0470 H-9	01009 G-5	04447 H-14				
	0471 I-9	01110 E-5	04448 H-14				
	0472 E-14	01111 G-4	04449 H-15				
	0473 E-14	01112 E-4	04450 H-15				
	0474 B-8	01113 C-4	04451 I-16				
	0475 H-1	01114 G-5	04460 G-16				
	0499 F-7	01011 B-4					
	0502 E-7	01012 C-4					
	0503 B-7	01013 A-4					
	0504 E-8	01014 A-2					
	0505 D-10	01015 B-4					
	0508 B-8	01016 C-5					
	0509 B-7	01017 H-1					

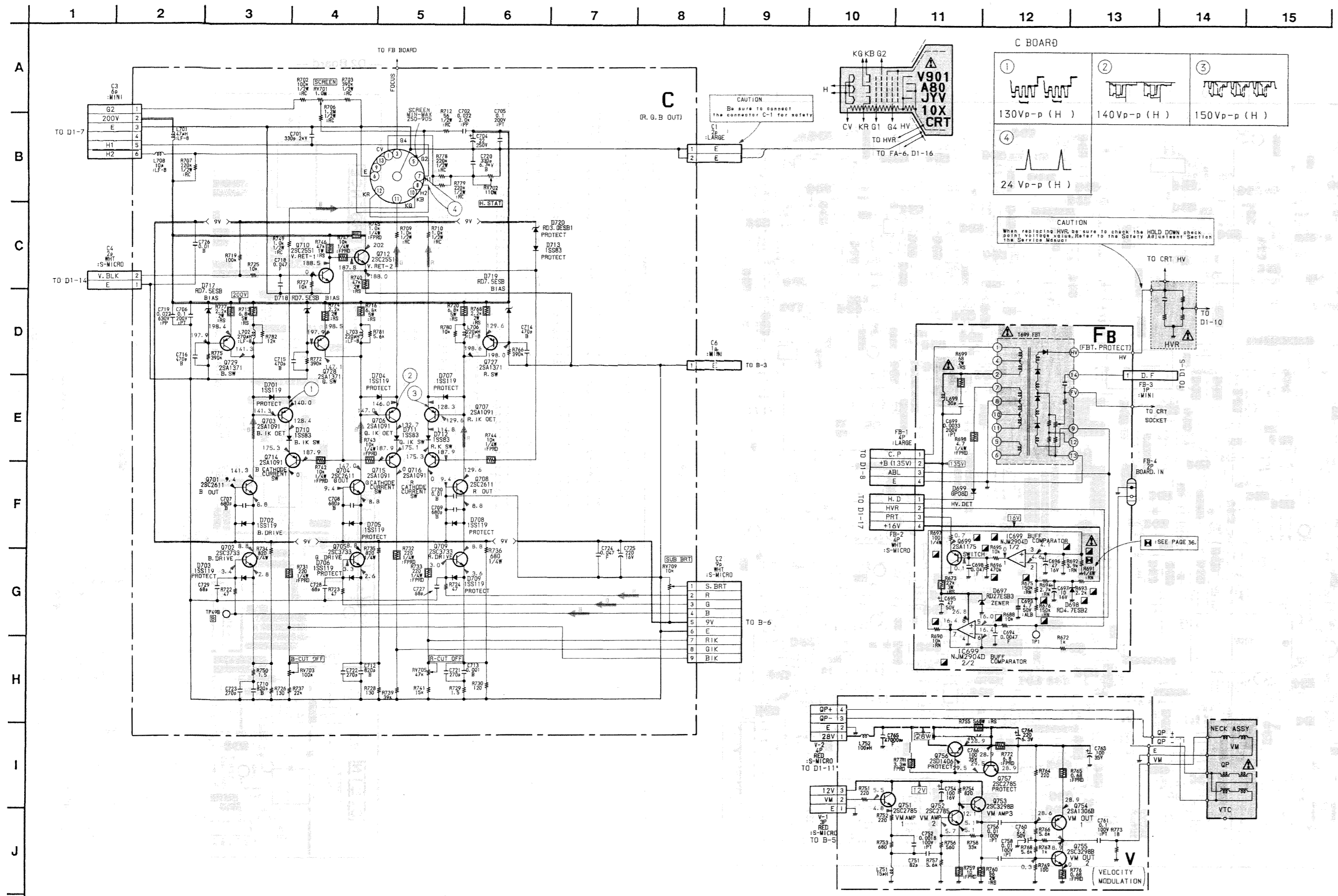
ADJ

TEST POINT

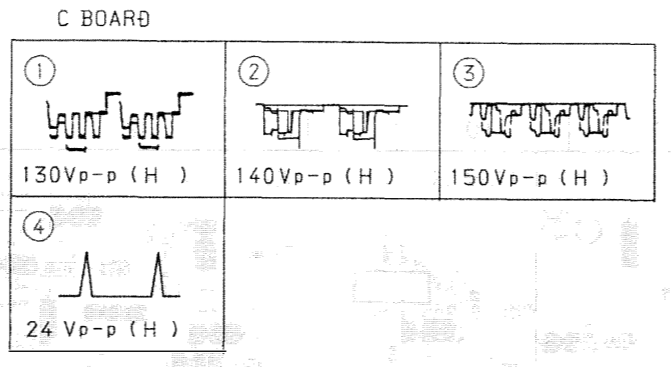
DIODE

— D2 Board —

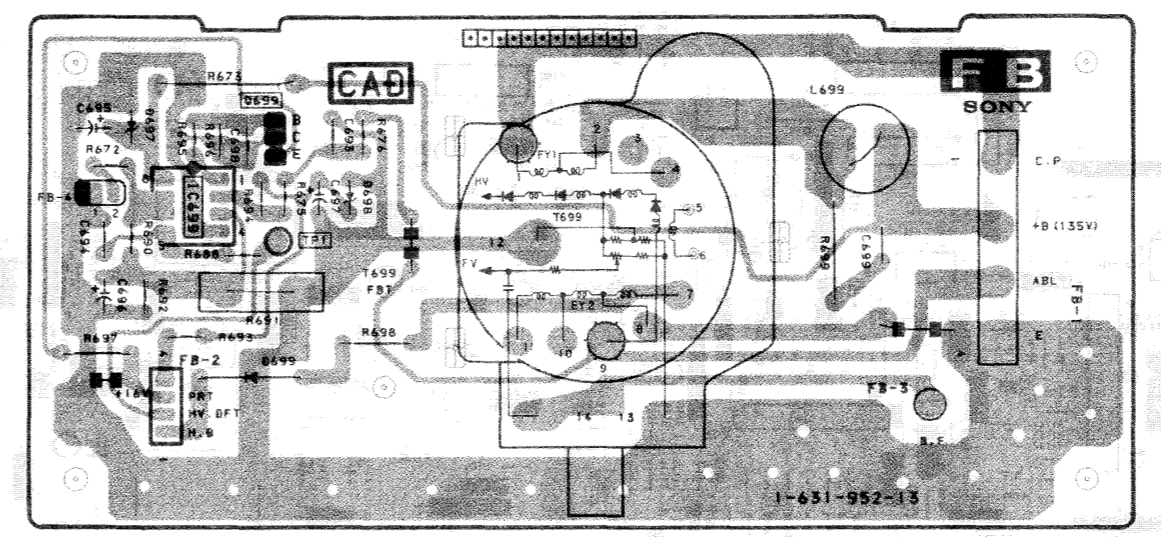




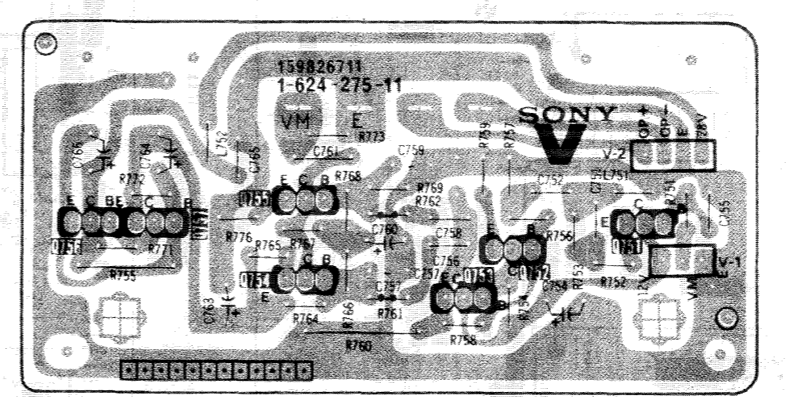
C (R.G.B OUT) **FB** (FBT, HV PROTECT) **V** (VELOCITY MODULATION)



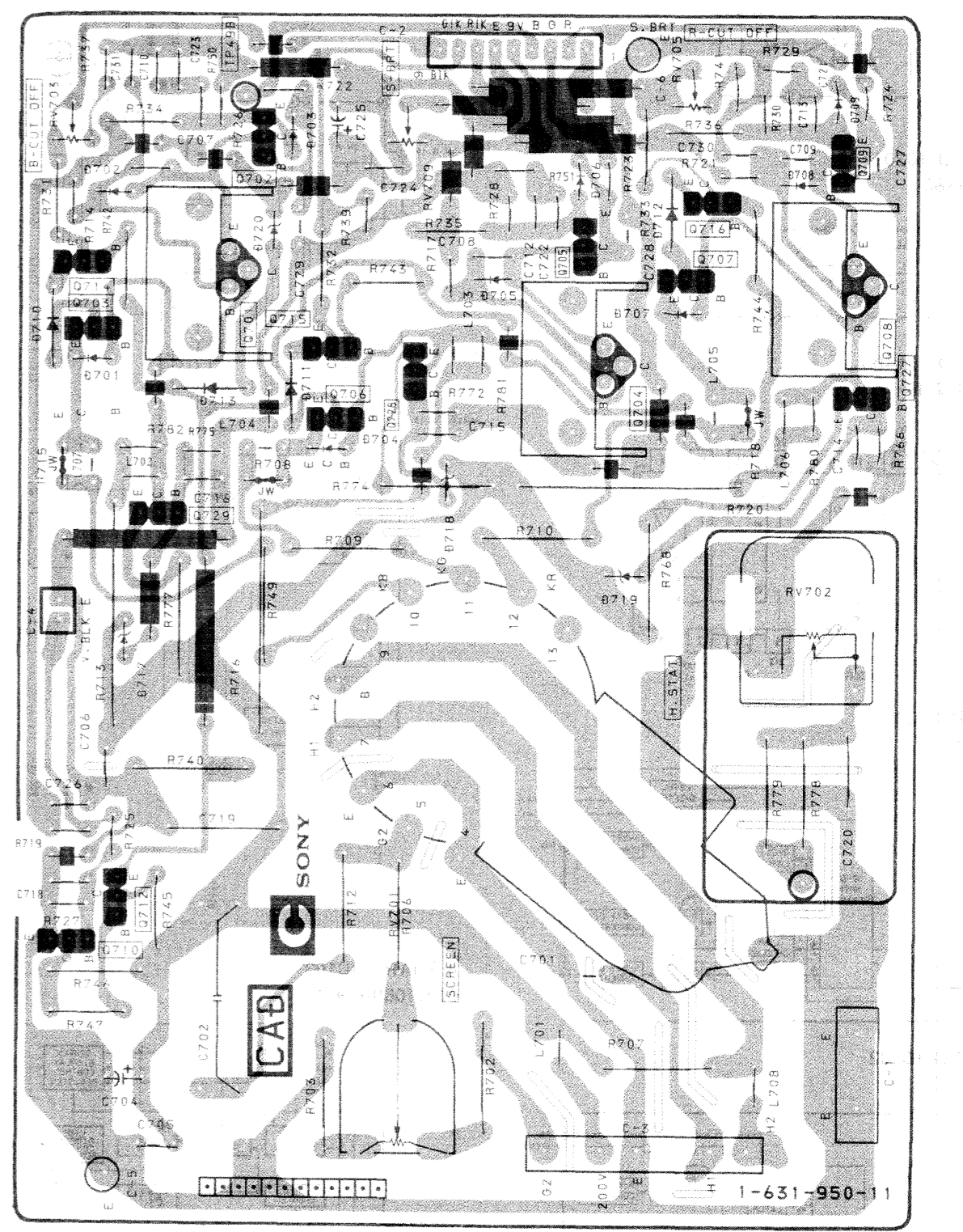
— FB Board —



— V Board —



— C Board —

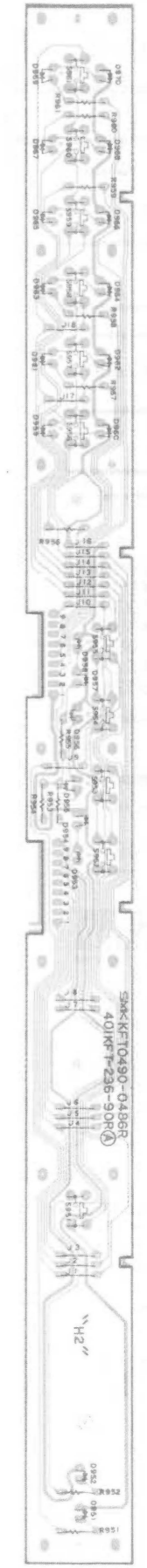
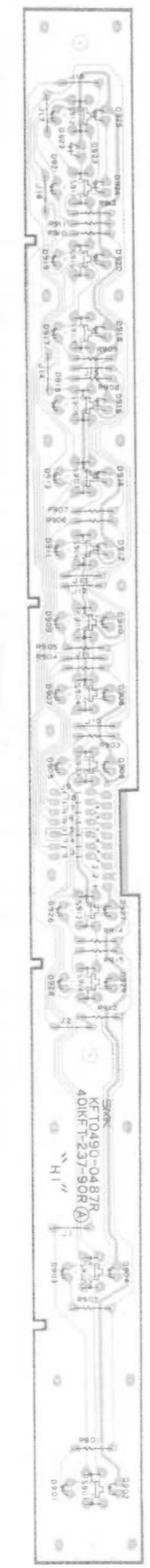
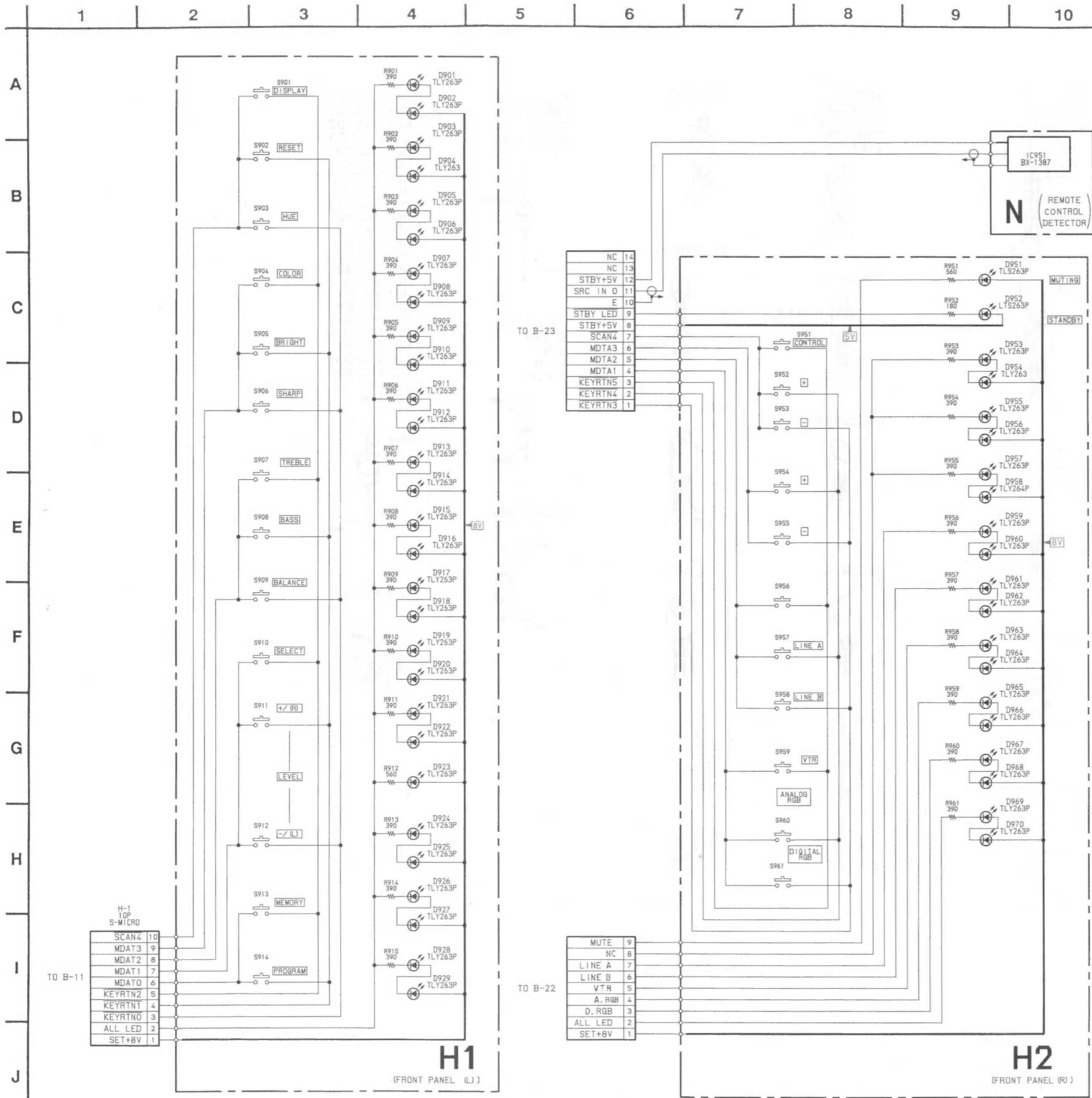


H1 (FRONT PANEL (L))

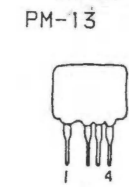
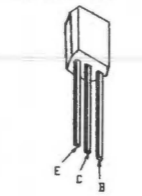
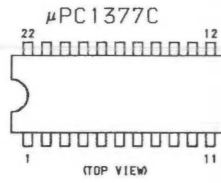
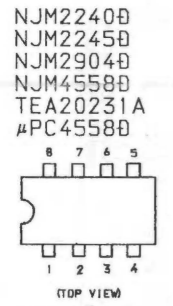
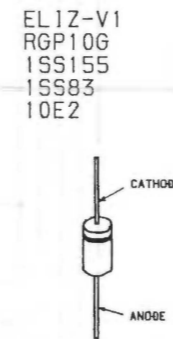
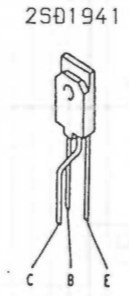
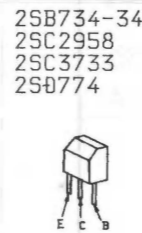
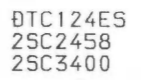
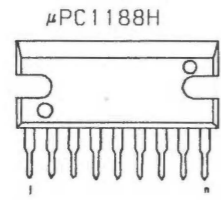
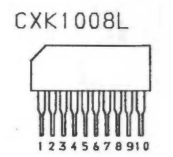
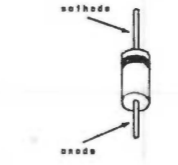
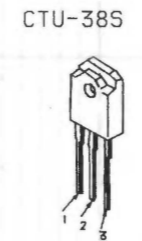
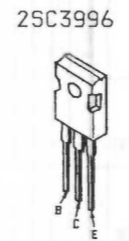
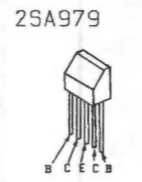
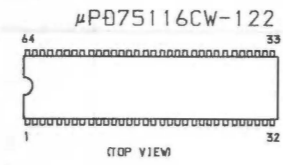
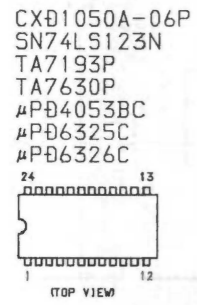
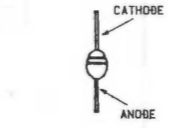
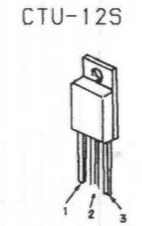
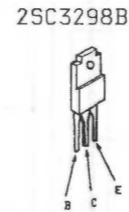
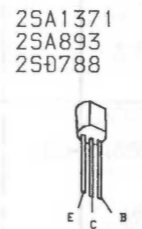
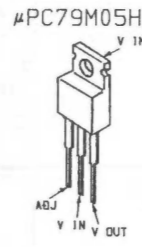
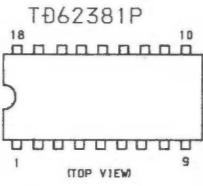
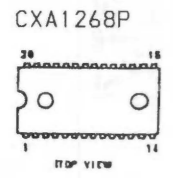
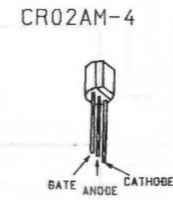
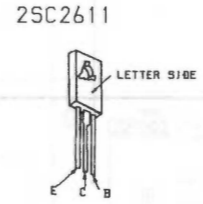
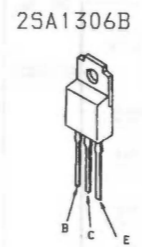
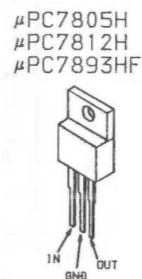
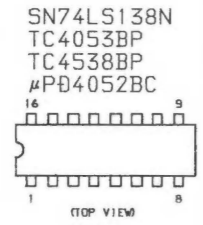
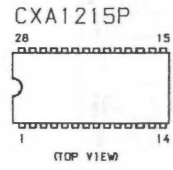
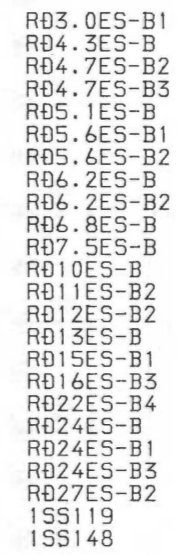
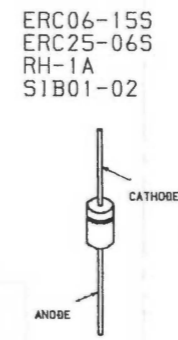
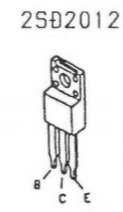
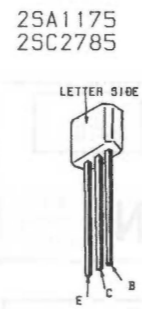
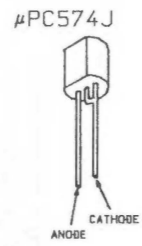
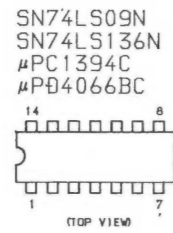
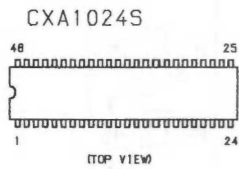
H2 (FRONT PANEL (R))

— H1 Board —

— H2 BOARD —



6-4. SEMICONDUCTORS



SECTION 7 EXPLODED VIEWS

NOTE:

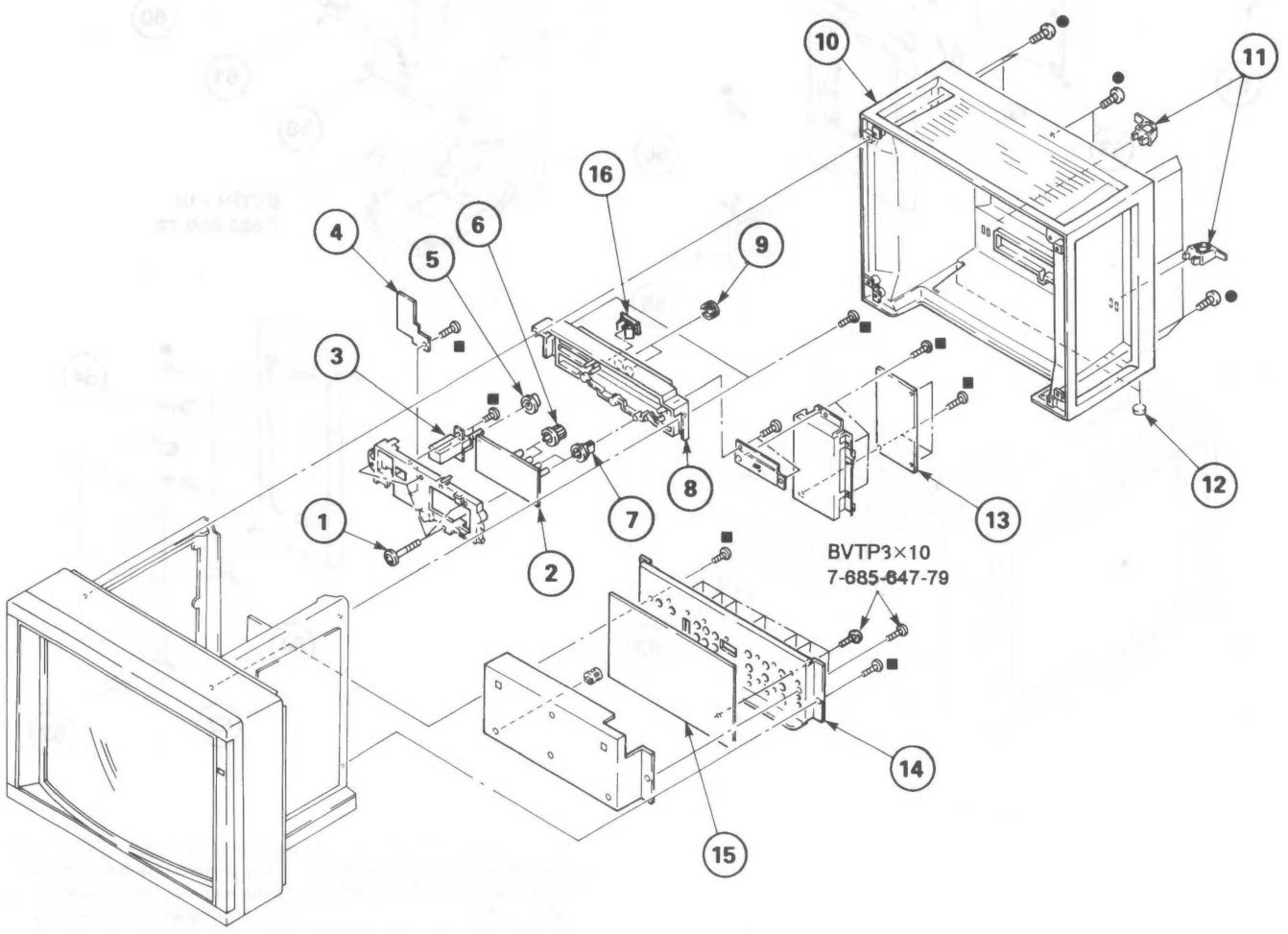
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine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

- BVTP4×16 7-685-663-79
- BVTP3×12 7-685-648-79

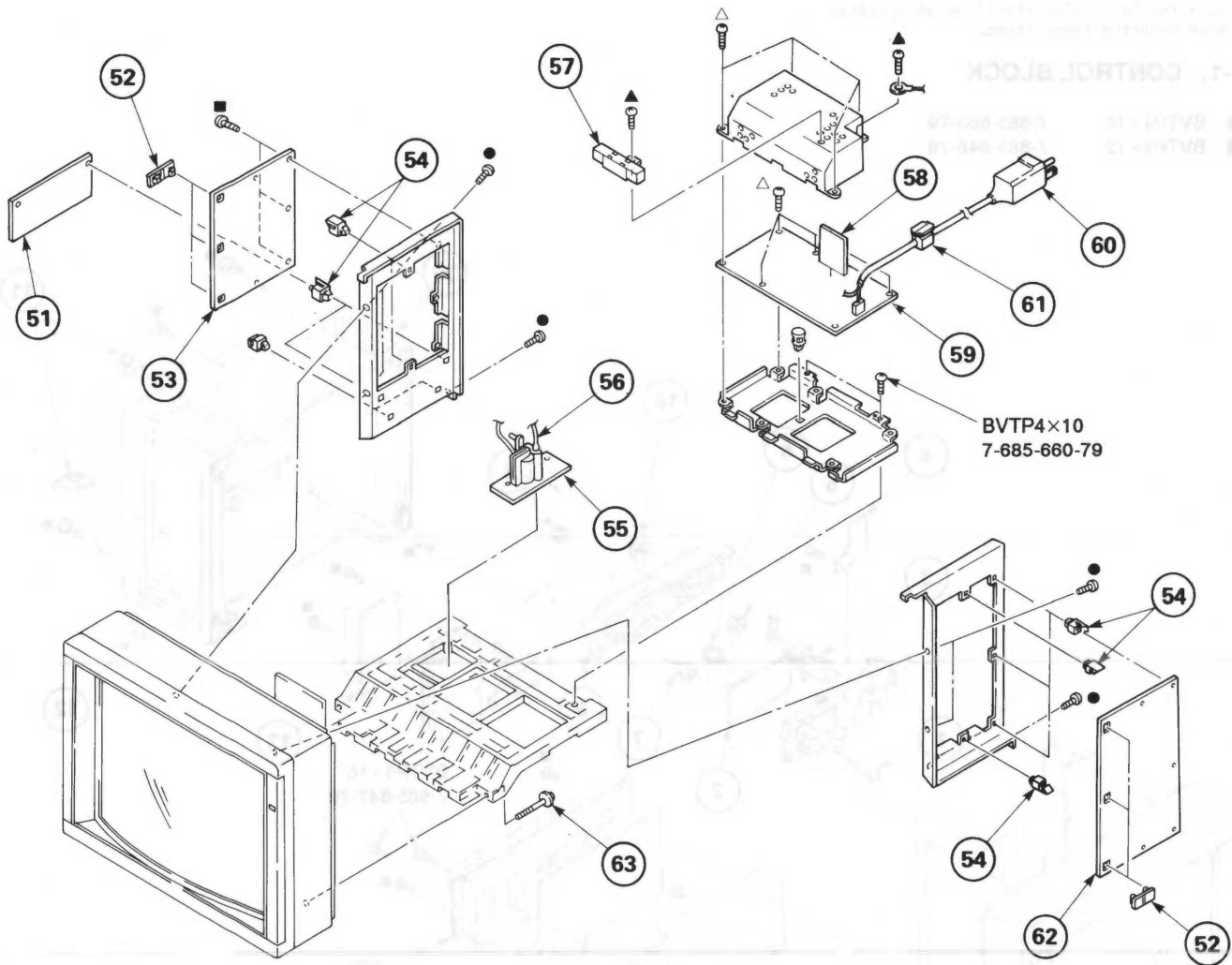


REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
1	4-319-520-11	SCREW, SPECIAL (+PW4X30)		9	4-371-181-01	CAP	
2	*1-633-445-11	H3 BOARD		10	X-4385-975-2	COVER ASSY, REAR	
3	▲ 1-570-757-11	SWITCH, PUSH (MANUAL DEGAUSS) (1 KEY)		11	4-316-003-00	HOLDER, CORD	
4	*1-633-446-11	H4 BOARD		12	4-392-860-01	CUSHION (B)	
5	4-381-168-01	BUTTON, DEGAUSSING		13	*A-1380-246-A	K BOARD, COMPLETE	
6	4-381-166-01	KNOB (A), CONTROL		14	*4-397-714-01	BRACKET, TERMINAL BOARD	
7	4-381-167-01	KNOB (B), CONTROL		15	*A-1373-224-A	U BOARD, COMPLETE	
8	4-382-005-71	PANEL, CONTROL		16	4-371-176-01	CAP, SQUARE	

SECTION 7
EXPLODED VIEWS

7-2. CHASSIS

- BVTP4×16 7-685-663-79
- BVTP3×12 7-685-648-79
- ▲ BVTP4×12 7-685-661-14
- △ BVTP3×8 7-685-646-79



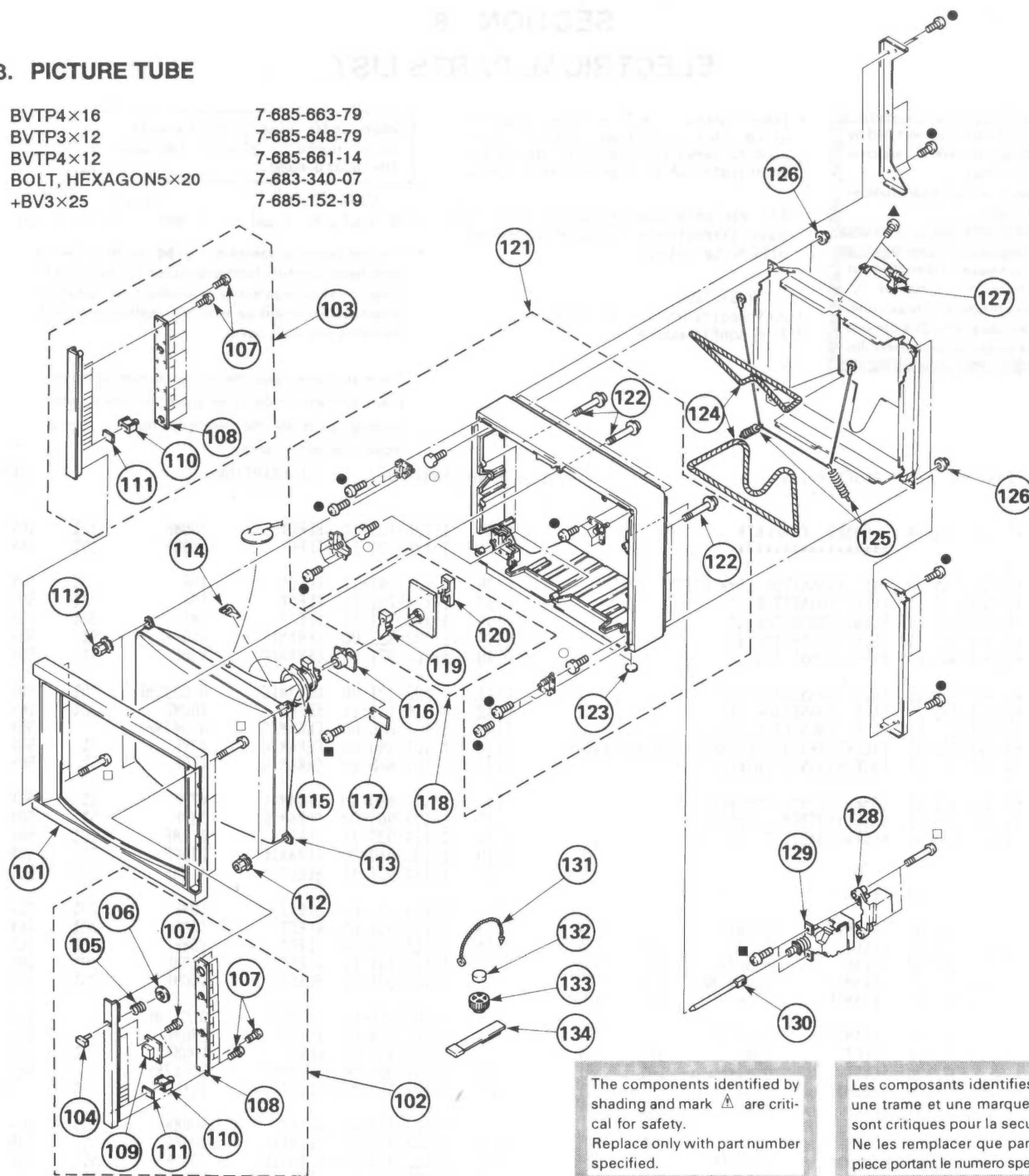
The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

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.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
51	*A-1345-864-A	D2 BOARD, COMPLETE		58	*1-631-953-11	FC BOARD	
52	*4-313-732-00	CLIP, HINGE, CIRCUIT BOARD		59	*A-1245-487-A	FA BOARD, COMPLETE	58
53	*A-1345-925-A	D1 BOARD, COMPLETE		60	▲ 1-574-443-21	CORD, POWER(WITH NOISE FILTER)	
54	*3-703-141-00	HOLDER, PCB		61	▲ *4-371-185-02	BUSHING, AC CORD	
55	*1-631-952-11	FB BOARD		62	*A-1135-631-A	B BOARD, COMPLETE	
56	▲ 1-439-478-11	TRANSFORMER ASSY, FLYBACK (NX-2302)		63	4-319-520-11	SCREW, SPECIAL (+PW4X30)	
57	▲ 1-205-772-11	RES, CEMENT WIREWOUND 1 5% 30WF					

7-3. PICTURE TUBE

- BVTP4×16 7-685-663-79
- BVTP3×12 7-685-648-79
- ▲ BVTP4×12 7-685-661-14
- BOLT, HEXAGON5×20 7-683-340-07
- +BV3×25 7-685-152-19



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.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
101	X-4385-973-2	BEZEL ASSY		118	*A-1331-078-A	C BOARD, COMPLETE	119,120
102	1-466-327-11	KEY BOARD UNIT (B)	104-111	119	*4-379-167-01	COVER (MAIN), CV	
103	1-466-225-11	KEY BOARD UNIT (A)	107,108,110,111	120	*4-379-160-01	COVER (REAR LID), CV	
104	9-990-899-01	KEY TOP		121	X-4385-974-2	CABINET ASSY	122,123
105	9-990-902-01	SPRING, COMPRESSION		122	4-319-520-11	SCREW, SPECIAL (+PW4X30)	
106	9-990-900-01	STOPPER		123	4-392-861-01	CUSHION (A)	
107	9-990-894-01	BVTP 2X6		124	▲1-426-497-11	COIL, DEMAGNETIZATION	
108	1-554-303-21	MT SWITCH (KEY BOARD SWITCH)		125	4-369-318-00	SPRING, TENSION	
109	8-741-138-70	IC BX-1387 (DETECTOR)		126	4-306-034-00	FLANGE NUT, (B) 5MM	
110	9-990-891-01	REFLECTOR A		127	▲1-237-614-12	RESISTOR ASSY, HIGH-VOLTAGE	
111	9-990-892-01	ILLUMINATOR A		128	*4-371-183-01	COVER, MAIN SWITCH	
112	4-387-204-01	NUT, SPECIAL, PICTURE TUBE		129	▲1-554-966-12	SWITCH, PUSH (AC POWER)(1 KEY)	
113	▲8-733-721-05	PICTURE TUBE (A80JYV10X)		130	*4-371-182-01	SHAFT	
114	3-703-961-01	SPACER, DY		131	4-308-870-00	CLIP, LEAD WIRE	
115	▲1-451-315-21	DEFLECTION YOKE (Y34FXA)		132	1-452-032-00	MAGNET, DISK; 10MM φ	
116	▲1-452-468-11	NECK ASSY, PICTURE TUBE (NA321)		133	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM φ	
117	*1-624-275-11	V BOARD		134	X-4306-312-0	PERMALLOY ASSY, CONVERGENCE	

B

SECTION 8 ELECTRICAL PARTS LIST

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 spécifique.

• 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.

• There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
*A-1135-631-A		B BOARD, COMPLETE *****		C134	1-126-101-11	ELECT 100MF 20%	16V
*1-508-784-00		PIN, CONNECTOR (5MM PITCH) 1P		C135	1-126-101-11	ELECT 100MF 20%	16V
*1-564-505-11		PLUG, CONNECTOR 2P		C136	1-124-791-11	ELECT 1MF 20%	50V
*1-564-506-11		PLUG, CONNECTOR 3P		C137	1-124-791-11	ELECT 1MF 20%	50V
*1-564-507-11		PLUG, CONNECTOR 4P		C138	1-124-791-11	ELECT 1MF 20%	50V
*1-564-508-11		PLUG, CONNECTOR 5P		C139	1-102-822-00	CERAMIC 390PF 5%	50V
*1-564-510-11		PLUG, CONNECTOR 7P		C140	1-102-971-00	CERAMIC 82PF 5%	50V
*1-564-512-11		PLUG, CONNECTOR 9P		C141	1-102-121-00	CERAMIC 0.0022MF 10%	50V
*1-564-513-11		PLUG, CONNECTOR 10P		C142	1-126-101-11	ELECT 100MF 20%	16V
*4-341-752-01		EYELET (EY1401, EY1402, EY1403, EY1404)		C143	1-101-006-00	CERAMIC 0.047MF	50V
*4-376-533-01		CASE (MAIN), SHIELD		C144	1-101-880-00	CERAMIC 47PF 5%	50V
*4-376-534-01		CASE (UPPER), SHIELD		C145	1-101-880-00	CERAMIC 47PF 5%	50V
*4-376-535-01		CASE (BOTTOM), SHIELD		C146	1-101-880-00	CERAMIC 47PF 5%	50V
4-382-854-01		SCREW (3X8), P, SW (+)		C147	1-102-963-00	CERAMIC 33PF 5%	50V
<CAPACITOR>				C148	1-124-927-11	ELECT 4.7MF 20%	50V
C101	1-101-006-00	CERAMIC 0.047MF	50V	C149	1-102-980-00	CERAMIC 270PF 5%	50V
C102	1-126-101-11	ELECT 100MF 20%	16V	C150	1-124-927-11	ELECT 4.7MF 20%	50V
C103	1-130-487-00	MYLAR 0.022MF 5%	50V	C152	1-123-356-00	ELECT 10MF 20%	16V
C104	1-102-125-00	CERAMIC 0.0047MF 10%	50V	C153	1-123-356-00	ELECT 10MF 20%	16V
C105	1-101-880-00	CERAMIC 47PF 5%	50V	C154	1-123-356-00	ELECT 10MF 20%	16V
C106	1-101-006-00	CERAMIC 0.047MF	50V	C155	1-126-101-11	ELECT 100MF 20%	16V
C107	1-124-963-11	ELECT 33MF 20%	16V	C156	1-126-101-11	ELECT 100MF 20%	16V
C108	1-124-902-00	ELECT 0.47MF 20%	50V	C157	1-101-006-00	CERAMIC 0.047MF	50V
C109	1-101-006-00	CERAMIC 0.047MF	50V	C158	1-119-354-00	ELECT 330MF	10V
C110	1-124-446-11	ELECT 47MF 20%	10V	C159	1-124-443-00	ELECT 100MF 20%	10V
C111	1-124-443-00	ELECT 100MF 20%	10V	C160	1-101-006-00	CERAMIC 0.047MF	50V
C112	1-101-006-00	CERAMIC 0.047MF	50V	C161	1-123-356-00	ELECT 10MF 20%	16V
C113	1-101-006-00	CERAMIC 0.047MF	50V	C162	1-124-443-00	ELECT 100MF 20%	10V
C114	1-101-006-00	CERAMIC 0.047MF	50V	C163	1-102-973-00	CERAMIC 100PF 5%	50V
C115	1-126-105-11	ELECT 1000MF 20%	35V	C164	1-102-973-00	CERAMIC 100PF 5%	50V
C116	1-136-153-00	MYLAR 0.01MF 10%	50V	C165	1-101-361-00	CERAMIC 150PF 5%	50V
C117	1-124-443-00	ELECT 100MF 20%	10V	C166	1-102-965-00	CERAMIC 39PF 5%	50V
C118	1-101-006-00	CERAMIC 0.047MF	50V	C167	1-123-356-00	ELECT 10MF 20%	16V
C119	1-124-443-00	ELECT 100MF 20%	10V	C301	1-101-006-00	CERAMIC 0.047MF	50V
C120	1-101-361-00	CERAMIC 150PF 5%	50V	C302	1-126-101-11	ELECT 100MF 20%	16V
C121	1-102-976-00	CERAMIC 180PF 5%	50V	C303	1-126-101-11	ELECT 100MF 20%	16V
C122	1-101-006-00	CERAMIC 0.047MF	50V	C304	1-101-006-00	CERAMIC 0.047MF	50V
C123	1-101-006-00	CERAMIC 0.047MF	50V	C305	1-101-006-00	CERAMIC 0.047MF	50V
C124	1-124-446-11	ELECT 47MF 20%	10V	C306	1-123-356-00	ELECT 10MF 20%	16V
C125	1-102-978-00	CERAMIC 220PF 5%	50V	C307	1-101-006-00	CERAMIC 0.047MF	50V
C126	1-123-356-00	ELECT 10MF 20%	16V	C308	1-124-443-00	ELECT 100MF 20%	10V
C127	1-102-074-00	CERAMIC 0.001MF 10%	50V	C309	1-101-006-00	CERAMIC 0.047MF	50V
C128	1-126-101-11	ELECT 100MF 20%	16V	C310	1-126-101-11	ELECT 100MF 20%	16V
C129	1-126-101-11	ELECT 100MF 20%	16V	C311	1-102-945-00	CERAMIC 8PF 0.5PF	50V
C130	1-124-791-11	ELECT 1MF 20%	50V	C312	1-101-884-00	CERAMIC 56PF 5%	50V
C131	1-124-791-11	ELECT 1MF 20%	50V	C313	1-123-356-00	ELECT 10MF 20%	16V
C132	1-124-791-11	ELECT 1MF 20%	50V	C314	1-124-791-11	ELECT 1MF 20%	50V
C133	1-124-791-11	ELECT 1MF 20%	50V	C315	1-123-356-00	ELECT 10MF 20%	16V
				C316	1-123-356-00	ELECT 10MF 20%	16V
				C317	1-101-006-00	CERAMIC 0.047MF	50V
				C318	1-102-947-00	CERAMIC 10PF 0.5PF	50V



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C319	1-102-947-00	CERAMIC	10PF	0.5PF	50V	C464	1-126-101-11 ELECT 100MF 20% 16V
C320	1-123-356-00	ELECT	10MF	20%	16V	C473	1-101-004-00 CERAMIC 0.01MF 50V
C363	1-126-101-11	ELECT	100MF	20%	16V	C474	1-102-949-00 CERAMIC 12PF 5% 50V
C364	1-102-961-00	CERAMIC	27PF	5%	50V	C475	1-123-356-00 ELECT 10MF 20% 16V
C365	1-102-971-00	CERAMIC	82PF	5%	50V	C476	1-123-356-00 ELECT 10MF 20% 16V
C366	1-126-101-11	ELECT	100MF	20%	16V	C477	1-102-949-00 CERAMIC 12PF 5% 50V
C367	1-126-101-11	ELECT	100MF	20%	16V	C478	1-123-356-00 ELECT 10MF 20% 16V
C368	1-101-006-00	CERAMIC	0.047MF		50V	C480	1-102-949-00 CERAMIC 12PF 5% 50V
C369	1-124-927-11	ELECT	4.7MF	20%	50V	C481	1-123-356-00 ELECT 10MF 20% 16V
C370	1-102-971-00	CERAMIC	82PF	5%	50V	C482	1-124-963-11 ELECT 33MF 20% 16V
C409	1-101-004-00	CERAMIC	0.01MF		50V	C483	1-102-960-00 CERAMIC 24PF 5% 50V
C411	1-101-004-00	CERAMIC	0.01MF		50V	C484	1-101-004-00 CERAMIC 0.01MF 50V
C412	1-102-961-00	CERAMIC	27PF	5%	50V	C485	1-101-004-00 CERAMIC 0.01MF 50V
C413	1-101-361-00	CERAMIC	150PF	5%	50V	C486	1-123-330-00 ELECT 22MF 20% 16V
C414	1-124-791-11	ELECT	1MF	20%	50V	C1310	1-124-963-11 ELECT 33MF 20% 16V
C415	1-124-902-00	ELECT	0.47MF	20%	50V	C1312	1-102-971-00 CERAMIC 82PF 5% 50V
C416	1-124-902-00	ELECT	0.47MF	20%	50V	C1313	1-102-113-00 CERAMIC 390PF 10% 50V
C417	1-102-129-00	CERAMIC	0.01MF	10%	50V	C1314	1-102-112-00 CERAMIC 330PF 10% 50V
C418	1-101-004-00	CERAMIC	0.01MF		50V	C1330	1-101-006-00 CERAMIC 0.047MF 50V
C419	1-101-081-00	CERAMIC	130PF	5%	50V	C1331	1-126-101-11 ELECT 100MF 20% 16V
C420	1-102-820-00	CERAMIC	330PF	5%	50V	C1360	1-126-101-11 ELECT 100MF 20% 16V
C421	1-102-960-00	CERAMIC	24PF	5%	50V	C1361	1-123-356-00 ELECT 10MF 20% 16V
C422	1-124-477-11	ELECT	47MF	20%	16V	C1362	1-123-382-00 ELECT 3.3MF 20% 50V
C423	1-124-477-11	ELECT	47MF	20%	16V	C1363	1-126-529-11 ELECT 0.47MF 20% 50V
C424	1-101-004-00	CERAMIC	0.01MF		50V	C1364	1-124-477-11 ELECT 47MF 20% 16V
C425	1-102-953-00	CERAMIC	18PF	5%	50V	C1365	1-101-006-00 CERAMIC 0.047MF 50V
C426	1-102-951-00	CERAMIC	15PF	5%	50V	C1366	1-102-074-00 CERAMIC 0.001MF 10% 50V
C427	1-126-101-11	ELECT	100MF	20%	16V	C1367	1-124-925-11 ELECT 2.2MF 20% 50V
C428	1-101-006-00	CERAMIC	0.047MF		50V	C1368	1-124-927-11 ELECT 4.7MF 20% 50V
C429	1-101-884-00	CERAMIC	56PF	5%	50V	C1369	1-124-621-11 ELECT 3300MF 20% 6.3V
C430	1-101-081-00	CERAMIC	130PF	5%	50V	C1370	1-126-101-11 ELECT 100MF 20% 16V
C431	1-102-820-00	CERAMIC	330PF	5%	50V	C1371	1-123-356-00 ELECT 10MF 20% 16V
C432	1-124-463-00	ELECT	0.1MF	20%	50V	C1401	1-124-791-11 ELECT 1MF 20% 50V
C433	1-124-463-00	ELECT	0.1MF	20%	50V	C1402	1-101-006-00 CERAMIC 0.047MF 50V
C434	1-102-944-00	CERAMIC	7PF	0.5PF	50V	C1403	1-126-320-11 ELECT 10MF 20% 16V
C435	1-123-369-00	ELECT	4.7MF	20%	25V	C1404	1-130-483-00 MYLAR 0.01MF 5% 50V
C436	1-101-004-00	CERAMIC	0.01MF		50V	C1405	1-126-101-11 ELECT 100MF 20% 16V
C437	1-102-961-00	CERAMIC	27PF	5%	50V	C1406	1-101-006-00 CERAMIC 0.047MF 50V
C438	1-136-157-00	MYLAR	0.022MF	10%	50V	C1407	1-130-475-00 MYLAR 0.0022MF 5% 50V
C439	1-136-157-00	MYLAR	0.022MF	10%	50V	C1408	1-126-101-11 ELECT 100MF 20% 16V
C440	1-101-004-00	CERAMIC	0.01MF		50V	C1409	1-126-101-11 ELECT 100MF 20% 16V
C441	1-123-369-00	ELECT	4.7MF	20%	25V	C1410	1-101-006-00 CERAMIC 0.047MF 50V
C442	1-102-074-00	CERAMIC	0.001MF	10%	50V	C1411	1-126-101-11 ELECT 100MF 20% 16V
C443	1-101-004-00	CERAMIC	0.01MF		50V	C1412	1-126-101-11 ELECT 100MF 20% 16V
C444	1-102-943-00	CERAMIC	6PF	0.5PF	50V	C1413	1-101-006-00 CERAMIC 0.047MF 50V
C445	1-101-004-00	CERAMIC	0.01MF		50V	C1416	1-101-004-00 CERAMIC 0.01MF 50V
C446	1-124-477-11	ELECT	47MF	20%	16V	C1440	1-126-101-11 ELECT 100MF 20% 16V
C447	1-126-101-11	ELECT	100MF	20%	16V	C1441	1-101-006-00 CERAMIC 0.047MF 50V
C448	1-101-004-00	CERAMIC	0.01MF		50V	C1442	1-102-129-00 CERAMIC 0.01MF 10% 50V
C449	1-101-004-00	CERAMIC	0.01MF		50V	C1443	1-124-268-00 ELECT 0.22MF 20% 50V
C450	1-101-006-00	CERAMIC	0.047MF		50V	C1444	1-124-268-00 ELECT 0.22MF 20% 50V
C451	1-126-101-11	ELECT	100MF		16V	C1445	1-124-268-00 ELECT 0.22MF 20% 50V
C452	1-123-356-00	ELECT	10MF	20%	16V	C1446	1-124-791-11 ELECT 1MF 20% 50V
C453	1-124-463-00	ELECT	0.1MF	20%	50V	C1447	1-124-791-11 ELECT 1MF 20% 50V
C454	1-102-129-00	CERAMIC	0.01MF	10%	50V	C1448	1-124-791-11 ELECT 1MF 20% 50V
C455	1-102-947-00	CERAMIC	10PF	0.5PF	50V	C1449	1-124-464-11 ELECT 0.22MF 20% 50V
C456	1-123-330-00	ELECT	22MF	20%	16V	C1450	1-124-464-11 ELECT 0.22MF 20% 50V
C457	1-101-006-00	CERAMIC	0.047MF		50V	C1451	1-124-464-11 ELECT 0.22MF 20% 50V
C458	1-124-963-11	ELECT	33MF	20%	16V	C1452	1-123-356-00 ELECT 10MF 20% 16V
C459	1-124-463-00	ELECT	0.1MF	20%	50V	C1453	1-123-356-00 ELECT 10MF 20% 16V
C460	1-124-463-00	ELECT	0.1MF	20%	50V	C1454	1-101-006-00 CERAMIC 0.047MF 50V
C461	1-124-463-00	ELECT	0.1MF	20%	50V	C1455	1-130-479-00 MYLAR 0.0047MF 10% 50V
C462	1-124-927-11	ELECT	4.7MF	20%	50V	C1456	1-130-479-00 MYLAR 0.0047MF 10% 50V
C463	1-101-006-00	CERAMIC	0.047MF		50V		

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C1457	1-130-479-00	MYLAR	0.0047MF	10%	50V		
C1458	1-136-153-00	MYLAR	0.01MF	10%	50V		
C1459	1-136-153-00	MYLAR	0.01MF	10%	50V		
C1460	1-136-153-00	MYLAR	0.01MF	10%	50V		
C1461	1-124-963-11	ELECT	33MF	20%	16V		
C1462	1-136-161-00	MYLAR	0.047MF	10%	50V		
C1463	1-136-161-00	MYLAR	0.047MF	10%	50V		
C1464	1-136-161-00	MYLAR	0.047MF	10%	50V		
C1465	1-123-356-00	ELECT	10MF	20%	16V		
C1466	1-124-478-11	ELECT	100MF	20%	25V		
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CFB301	1-808-703-11	COMB PACK, CCD (CCP-2)					
<COMPOSITION CIRCUIT BLOCK>							
CP1443	1-232-096-00	COMPOSITION CIRCUIT BLOCK					
<TRIMMER>							
CV410	1-141-147-99	CAP. TRIMMER					
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D101	8-719-911-19	DIODE	ISS119				
D102	8-719-911-19	DIODE	ISS119				
D103	8-719-911-19	DIODE	ISS119				
D104	8-719-511-40	DIODE	S1VB40				
D105	8-719-911-19	DIODE	ISS119				
D106	8-719-109-93	DIODE	RD6.2ES-B2				
D107	8-719-911-19	DIODE	ISS119				
D108	8-719-109-93	DIODE	RD6.2ES-B2				
D109	8-719-911-19	DIODE	ISS119				
D110	8-719-911-19	DIODE	ISS119				
D111	8-719-911-19	DIODE	ISS119				
D112	8-719-109-93	DIODE	RD6.2ES-B2				
D113	8-719-911-19	DIODE	ISS119				
D114	8-719-109-74	DIODE	RD4.3ES-B1				
D115	8-719-911-19	DIODE	ISS119				
D116	8-719-109-93	DIODE	RD6.2ES-B2				
D117	8-719-109-96	DIODE	RD6.8ES-B1				
D118	8-719-109-96	DIODE	RD6.8ES-B1				
D119	8-719-911-19	DIODE	ISS119				
D120	8-719-110-63	DIODE	RD24ES-B3				
D121	8-719-911-19	DIODE	ISS119				
D122	8-719-911-19	DIODE	ISS119				
D123	8-719-911-19	DIODE	ISS119				
D124	8-719-911-19	DIODE	ISS119				
D125	8-719-911-19	DIODE	ISS119				
D303	8-719-109-89	DIODE	RD5.6ES-B2				
D304	8-719-109-93	DIODE	RD6.2ES-B2				
D401	8-719-911-19	DIODE	ISS119				
D402	8-719-911-19	DIODE	ISS119				
D450	8-719-911-19	DIODE	ISS119				
D451	8-719-911-19	DIODE	ISS119				
D452	8-719-911-19	DIODE	ISS119				
D453	8-719-911-19	DIODE	ISS119				
D454	8-719-911-19	DIODE	ISS119				
D455	8-719-911-19	DIODE	ISS119				
D458	8-719-911-19	DIODE	ISS119				
D459	8-719-911-19	DIODE	ISS119				
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D462	8-719-911-19	DIODE	ISS119				
D463	8-719-911-19	DIODE	ISS119				
D1360	8-719-911-19	DIODE	ISS119				
D1361	8-719-911-19	DIODE	ISS119				
D1362	8-719-911-19	DIODE	ISS119				
D1363	8-719-911-19	DIODE	ISS119				
D1364	8-719-911-19	DIODE	ISS119				
D1365	8-719-110-63	DIODE	RD24ES-B3				
D1367	8-719-911-19	DIODE	ISS119				
D1368	8-719-911-19	DIODE	ISS119				
D1369	8-719-911-19	DIODE	ISS119				
D1401	8-719-911-19	DIODE	ISS119				
D1402	8-719-911-19	DIODE	ISS119				
D1403	8-719-110-36	DIODE	RD13ES-B2				
D1404	8-719-911-19	DIODE	ISS119				
D1405	8-719-109-93	DIODE	RD6.2ES-B2				
D1406	8-719-911-19	DIODE	ISS119				
D1440	8-719-911-19	DIODE	ISS119				
D1441	8-719-911-19	DIODE	ISS119				
D1442	8-719-911-19	DIODE	ISS119				
D1443	8-719-911-19	DIODE	ISS119				
D1444	8-719-911-19	DIODE	ISS119				
D1445	8-719-911-19	DIODE	ISS119				
D1446	8-719-911-19	DIODE	ISS119				
D1447	8-719-110-17	DIODE	RD10ES-B2				
D1448	8-719-110-17	DIODE	RD10ES-B2				
D1449	8-719-110-17	DIODE	RD10ES-B2				
D1450	8-719-110-17	DIODE	RD10ES-B2				
D1451	8-719-110-17	DIODE	RD10ES-B2				
D1460	8-719-911-19	DIODE	ISS119				
D1461	8-719-911-19	DIODE	ISS119				
D1462	8-719-911-19	DIODE	ISS119				
D1463	8-719-110-17	DIODE	RD10ES-B2				
D1464	8-719-110-17	DIODE	RD10ES-B2				
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DL360	1-415-654-12	DELAY LINE					
DL361	1-415-654-12	DELAY LINE					
<IC>							
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IC102	8-759-102-28	IC	UPD6326C				
IC103	8-752-327-36	IC	CXD1050A-06P				
IC104	8-759-148-19	IC	UPD75116-CW-122				
IC105	8-759-803-26	IC	CXK1008L				
IC109	8-759-604-29	IC	M5F7805				
IC110	8-759-982-21	IC	RC78L05A				
IC111	8-759-207-07	IC	TD62381P				
IC301	8-759-140-53	IC	UPD4053BC				
IC303	8-759-140-66	IC	UPD4066BC				
IC420	8-759-204-21	IC	TA7193P				
IC450	8-759-711-06	IC	NJM2240D				
IC460	8-752-034-56	IC	CXA1215P				
IC1401	8-759-982-13	IC	RC7812FA				
IC1402	8-759-142-04	IC	UPC7893HF				
IC1403	8-759-901-23	IC	SN74LS123N				
IC1440	8-752-030-31	IC	CXA1024S				
<COIL>							
L101	1-410-677-31	INDUCTOR			180UH		



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
L102	1-410-677-31	INDUCTOR 180UH		Q314	8-729-900-36	TRANSISTOR DTC124ES	
L103	1-410-677-31	INDUCTOR 180UH		Q315	8-729-119-78	TRANSISTOR 2SC2785-HFE	
L104	1-410-677-31	INDUCTOR 180UH		Q316	8-729-119-78	TRANSISTOR 2SC2785-HFE	
L105	1-410-677-31	INDUCTOR 180UH		Q360	8-729-119-78	TRANSISTOR 2SC2785-HFE	
L106	1-410-677-31	INDUCTOR 180UH		Q361	8-729-119-76	TRANSISTOR 2SA1175-HFE	
L107	1-410-665-31	INDUCTOR 15UH		Q362	8-729-119-76	TRANSISTOR 2SA1175-HFE	
L108	1-408-405-00	INDUCTOR 4.7UH		Q363	8-729-119-76	TRANSISTOR 2SA1175-HFE	
L109	1-408-405-00	INDUCTOR 4.7UH		Q364	8-729-119-78	TRANSISTOR 2SC2785-HFE	
L110	1-410-677-31	INDUCTOR 180UH		Q365	8-729-119-78	TRANSISTOR 2SC2785-HFE	
L111	1-410-666-31	INDUCTOR 18UH		Q366	8-729-119-78	TRANSISTOR 2SC2785-HFE	
L112	1-408-405-00	INDUCTOR 4.7UH		Q367	8-729-119-78	TRANSISTOR 2SC2785-HFE	
L301	1-410-667-31	INDUCTOR 22UH		Q368	8-729-119-78	TRANSISTOR 2SC2785-HFE	
L308	1-404-495-00	COIL		Q369	8-729-119-78	TRANSISTOR 2SC2785-HFE	
L411	1-408-419-00	INDUCTOR 68UH		Q410	8-729-119-78	TRANSISTOR 2SC2785-HFE	
L412	1-410-682-31	INDUCTOR 470UH		Q411	8-729-119-78	TRANSISTOR 2SC2785-HFE	
L413	1-410-682-31	INDUCTOR 470UH		Q412	8-729-119-78	TRANSISTOR 2SC2785-HFE	
L415	1-410-674-31	INDUCTOR 82UH		Q413	8-729-119-78	TRANSISTOR 2SC2785-HFE	
L1402	1-408-159-00	COIL, SPOOK CHOKE 3.3UH		Q414	8-729-119-78	TRANSISTOR 2SC2785-HFE	
		<MODULE>		Q415	8-729-119-78	TRANSISTOR 2SC2785-HFE	
NM420	1-236-150-11	MODULE, NEW DYNAMIC COLOR		Q416	8-729-119-78	TRANSISTOR 2SC2785-HFE	
		<NR PACK>		Q417	8-729-119-76	TRANSISTOR 2SA1175-HFE	
NRB301	1-466-179-11	NR PACK (NRP-2M)		Q418	8-729-119-76	TRANSISTOR 2SA1175-HFE	
		<TRANSISTOR>		Q419	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q101	8-729-119-78	TRANSISTOR 2SC2785-HFE		Q420	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q102	8-729-119-76	TRANSISTOR 2SA1175-HFE		Q421	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q103	8-729-119-78	TRANSISTOR 2SC2785-HFE		Q422	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q104	8-729-119-78	TRANSISTOR 2SC2785-HFE		Q423	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q105	8-729-119-76	TRANSISTOR 2SA1175-HFE		Q425	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q106	8-729-119-78	TRANSISTOR 2SC2785-HFE		Q426	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q107	8-729-119-76	TRANSISTOR 2SA1175-HFE		Q450	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q108	8-729-119-76	TRANSISTOR 2SA1175-HFE		Q451	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q109	8-729-119-76	TRANSISTOR 2SA1175-HFE		Q452	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q110	8-729-119-78	TRANSISTOR 2SC2785-HFE		Q453	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q111	8-729-119-78	TRANSISTOR 2SC2785-HFE		Q458	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q112	8-729-119-78	TRANSISTOR 2SC2785-HFE		Q459	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q113	8-729-119-78	TRANSISTOR 2SC2785-HFE		Q460	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q114	8-729-119-76	TRANSISTOR 2SA1175-HFE		Q461	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q115	8-729-119-76	TRANSISTOR 2SA1175-HFE		Q462	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q116	8-729-119-78	TRANSISTOR 2SC2785-HFE		Q463	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q118	8-729-119-76	TRANSISTOR 2SA1175-HFE		Q464	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q119	8-729-119-76	TRANSISTOR 2SA1175-HFE		Q465	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q120	8-729-119-78	TRANSISTOR 2SC2785-HFE		Q466	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q121	8-729-119-78	TRANSISTOR 2SC2785-HFE		Q467	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q122	8-729-119-78	TRANSISTOR 2SC2785-HFE		Q468	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q123	8-729-209-15	TRANSISTOR 2SD2012		Q469	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q124	8-729-119-78	TRANSISTOR 2SC2785-HFE		Q471	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q125	8-729-119-76	TRANSISTOR 2SA1175-HFE		Q472	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q301	8-729-119-76	TRANSISTOR 2SA1175-HFE		Q473	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q302	8-729-119-76	TRANSISTOR 2SA1175-HFE		Q1350	8-729-900-36	TRANSISTOR DTC124ES	
Q303	8-729-119-76	TRANSISTOR 2SA1175-HFE		Q1360	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q304	8-729-119-76	TRANSISTOR 2SA1175-HFE		Q1361	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q305	8-729-900-36	TRANSISTOR DTC124ES		Q1362	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q308	8-729-119-76	TRANSISTOR 2SA1175-HFE		Q1363	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q309	8-729-119-76	TRANSISTOR 2SA1175-HFE		Q1364	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q310	8-729-140-96	TRANSISTOR 2SD774-34		Q1365	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q311	8-729-119-76	TRANSISTOR 2SA1175-HFE		Q1366	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q312	8-729-119-78	TRANSISTOR 2SC2785-HFE		Q1367	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q313	8-729-119-78	TRANSISTOR 2SC2785-HFE		Q1368	8-729-119-76	TRANSISTOR 2SA1175-HFE	
				Q1369	8-729-119-78	TRANSISTOR 2SC2785-HFE	
				Q1370	8-729-119-78	TRANSISTOR 2SC2785-HFE	
				Q1371	8-729-119-78	TRANSISTOR 2SC2785-HFE	
				Q1373	8-729-119-76	TRANSISTOR 2SA1175-HFE	
				Q1374	8-729-119-78	TRANSISTOR 2SC2785-HFE	

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R308	1-249-430-11	CARBON	12K 5% 1/4W	R388	1-249-417-11	CARBON	1K 5% 1/4W
R309	1-249-431-11	CARBON	15K 5% 1/4W	R389	1-247-822-11	CARBON	430 5% 1/4W
R310	1-249-441-11	CARBON	100K 5% 1/4W	R390	1-249-420-11	CARBON	1.8K 5% 1/4W
R311	1-249-413-11	CARBON	470 5% 1/4W	R391	1-249-421-11	CARBON	2.2K 5% 1/4W
R312	1-249-412-11	CARBON	390 5% 1/4W	R392	1-249-427-11	CARBON	6.8K 5% 1/4W
R313	1-249-423-11	CARBON	3.3K 5% 1/4W	R393	1-249-425-11	CARBON	4.7K 5% 1/4W
R314	1-249-423-11	CARBON	3.3K 5% 1/4W	R394	1-249-421-11	CARBON	2.2K 5% 1/4W
R315	1-249-429-11	CARBON	10K 5% 1/4W	R395	1-249-415-11	CARBON	680 5% 1/4W
R316	1-249-421-11	CARBON	2.2K 5% 1/4W	R396	1-249-415-11	CARBON	680 5% 1/4W
R317	1-249-427-11	CARBON	6.8K 5% 1/4W	R397	1-249-435-11	CARBON	33K 5% 1/4W
R318	1-249-435-11	CARBON	33K 5% 1/4W	R398	1-249-417-11	CARBON	1K 5% 1/4W
R319	1-249-434-11	CARBON	27K 5% 1/4W	R399	1-247-891-00	CARBON	330K 5% 1/4W
R320	1-249-437-11	CARBON	47K 5% 1/4W	R401	1-249-417-11	CARBON	1K 5% 1/4W
R321	1-249-430-11	CARBON	12K 5% 1/4W	R403	1-249-413-11	CARBON	470 5% 1/4W
R322	1-249-417-11	CARBON	1K 5% 1/4W	R404	1-249-413-11	CARBON	470 5% 1/4W
R323	1-249-421-11	CARBON	2.2K 5% 1/4W	R405	1-247-893-11	CARBON	390K 5% 1/4W
R324	1-249-417-11	CARBON	1K 5% 1/4W	R406	1-249-423-11	CARBON	3.3K 5% 1/4W
R325	1-249-433-11	CARBON	22K 5% 1/4W	R407	1-215-413-00	METAL	470 1% 1/6W
R326	1-249-430-11	CARBON	12K 5% 1/4W	R408	1-249-415-11	CARBON	680 5% 1/4W
R327	1-249-439-11	CARBON	68K 5% 1/4W	R409	1-249-415-11	CARBON	680 5% 1/4W
R328	1-249-433-11	CARBON	22K 5% 1/4W	R411	1-249-414-11	CARBON	560 5% 1/4W
R329	1-249-423-11	CARBON	3.3K 5% 1/4W	R412	1-249-432-11	CARBON	18K 5% 1/4W
R330	1-249-416-11	CARBON	820 5% 1/4W	R413	1-249-435-11	CARBON	33K 5% 1/4W
R331	1-249-409-11	CARBON	220 5% 1/4W	R414	1-249-423-11	CARBON	3.3K 5% 1/4W
R332	1-249-418-11	CARBON	1.2K 5% 1/4W	R415	1-249-423-11	CARBON	3.3K 5% 1/4W
R333	1-249-429-11	CARBON	10K 5% 1/4W	R416	1-249-423-11	CARBON	3.3K 5% 1/4W
R334	1-249-418-11	CARBON	1.2K 5% 1/4W	R417	1-249-421-11	CARBON	2.2K 5% 1/4W
R335	1-249-429-11	CARBON	10K 5% 1/4W	R418	1-215-443-00	METAL	8.2K 1% 1/6W
R336	1-249-421-11	CARBON	2.2K 5% 1/4W	R419	1-249-441-11	CARBON	100K 5% 1/4W
R337	1-249-417-11	CARBON	1K 5% 1/4W	R420	1-249-425-11	CARBON	4.7K 5% 1/4W
R338	1-249-409-11	CARBON	220 5% 1/4W	R421	1-215-423-00	METAL	1.2K 1% 1/6W
R339	1-249-441-11	CARBON	100K 5% 1/4W	R422	1-215-423-00	METAL	1.2K 1% 1/6W
R340	1-247-708-11	CARBON	470 5% 1/4W	R423	1-249-405-11	CARBON	100 5% 1/4W
R341	1-249-413-11	CARBON	470 5% 1/4W	R424	1-249-417-11	CARBON	1K 5% 1/4W
R342	1-249-409-11	CARBON	220 5% 1/4W	R425	1-249-417-11	CARBON	1K 5% 1/4W
R343	1-249-419-11	CARBON	1.5K 5% 1/4W	R426	1-249-421-11	CARBON	2.2K 5% 1/4W
R344	1-249-421-11	CARBON	2.2K 5% 1/4W	R427	1-247-830-11	CARBON	910 5% 1/4W
R345	1-249-421-11	CARBON	2.2K 5% 1/4W	R428	1-249-416-11	CARBON	820 5% 1/4W
R346	1-249-412-11	CARBON	390 5% 1/4W	R429	1-249-412-11	CARBON	390 5% 1/4W
R347	1-249-421-11	CARBON	2.2K 5% 1/4W	R430	1-249-419-11	CARBON	1.5K 5% 1/4W
R348	1-247-862-11	CARBON	20K 5% 1/4W	R431	1-215-436-00	METAL	4.3K 1% 1/6W
R349	1-247-884-11	CARBON	160K 5% 1/4W	R432	1-249-421-11	CARBON	2.2K 5% 1/4W
R350	1-249-415-11	CARBON	680 5% 1/4W	R433	1-249-433-11	CARBON	22K 5% 1/4W
R367	1-249-424-11	CARBON	3.9K 5% 1/4W	R434	1-249-429-11	CARBON	10K 5% 1/4W
R368	1-249-433-11	CARBON	22K 5% 1/4W	R435	1-215-425-00	METAL	1.5K 1% 1/6W
R369	1-249-421-11	CARBON	2.2K 5% 1/4W	R436	1-249-417-11	CARBON	1K 5% 1/4W
R370	1-249-413-11	CARBON	470 5% 1/4W	R437	1-249-409-11	CARBON	220 5% 1/4W
R371	1-249-413-11	CARBON	470 5% 1/4W	R438	1-215-431-00	METAL	2.7K 1% 1/6W
R372	1-249-412-11	CARBON	390 5% 1/4W	R439	1-215-417-00	METAL	680 1% 1/6W
R373	1-249-411-11	CARBON	330 5% 1/4W	R440	1-249-416-11	CARBON	820 5% 1/4W
R374	1-249-413-11	CARBON	470 5% 1/4W	R441	1-249-421-11	CARBON	2.2K 5% 1/4W
R375	1-249-413-11	CARBON	470 5% 1/4W	R442	1-249-415-11	CARBON	680 5% 1/4W
R376	1-249-421-11	CARBON	2.2K 5% 1/4W	R443	1-247-830-11	CARBON	910 5% 1/4W
R377	1-249-421-11	CARBON	2.2K 5% 1/4W	R444	1-247-830-11	CARBON	910 5% 1/4W
R378	1-249-419-11	CARBON	1.5K 5% 1/4W	R445	1-247-830-11	CARBON	910 5% 1/4W
R379	1-249-418-11	CARBON	1.2K 5% 1/4W	R446	1-249-417-11	CARBON	1K 5% 1/4W
R380	1-249-419-11	CARBON	1.5K 5% 1/4W	R447	1-249-415-11	CARBON	680 5% 1/4W
R381	1-249-414-11	CARBON	560 5% 1/4W	R448	1-215-413-00	METAL	470 1% 1/6W
R382	1-249-412-11	CARBON	390 5% 1/4W	R449	1-215-415-00	METAL	560 1% 1/6W
R383	1-249-412-11	CARBON	390 5% 1/4W	R450	1-249-433-11	CARBON	22K 5% 1/4W
R384	1-249-421-11	CARBON	2.2K 5% 1/4W	R451	1-249-417-11	CARBON	1K 5% 1/4W
R385	1-249-431-11	CARBON	15K 5% 1/4W	R452	1-249-419-11	CARBON	1.5K 5% 1/4W
R386	1-249-435-11	CARBON	33K 5% 1/4W	R453	1-249-422-11	CARBON	2.7K 5% 1/4W
R387	1-249-421-11	CARBON	2.2K 5% 1/4W				

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R454	1-249-421-11	CARBON	2.2K 5% 1/4W	R1132	1-249-421-11	CARBON	2.2K 5% 1/4W
R455	1-249-405-11	CARBON	100 5% 1/4W	R1133	1-249-421-11	CARBON	2.2K 5% 1/4W
R456	1-249-405-11	CARBON	100 5% 1/4W	R1134	1-249-421-11	CARBON	2.2K 5% 1/4W
R457	1-249-429-11	CARBON	10K 5% 1/4W	R1135	1-249-437-11	CARBON	47K 5% 1/4W
R458	1-249-429-11	CARBON	10K 5% 1/4W	R1136	1-249-421-11	CARBON	2.2K 5% 1/4W
R460	1-247-725-11	CARBON	10K 5% 1/4W	R1137	1-249-437-11	CARBON	47K 5% 1/4W
R461	1-246-535-00	CARBON	390K 5% 1/4W	R1138	1-249-421-11	CARBON	2.2K 5% 1/4W
R462	1-249-436-11	CARBON	39K 5% 1/4W	R1139	1-249-417-11	CARBON	1K 5% 1/4W
R463	1-249-431-11	CARBON	15K 5% 1/4W	R1140	1-249-417-11	CARBON	1K 5% 1/4W
R464	1-249-405-11	CARBON	100 5% 1/4W	R1141	1-249-417-11	CARBON	1K 5% 1/4W
R465	1-249-405-11	CARBON	100 5% 1/4W	R1142	1-249-417-11	CARBON	1K 5% 1/4W
R466	1-249-405-11	CARBON	100 5% 1/4W	R1143	1-249-417-11	CARBON	1K 5% 1/4W
R467	1-247-872-11	CARBON	51K 5% 1/4W	R1144	1-249-417-11	CARBON	1K 5% 1/4W
R468	1-249-429-11	CARBON	10K 5% 1/4W	R1145	1-249-421-11	CARBON	2.2K 5% 1/4W
R469	1-247-862-11	CARBON	20K 5% 1/4W	R1146	1-249-421-11	CARBON	2.2K 5% 1/4W
R470	1-249-429-11	CARBON	10K 5% 1/4W	R1147	1-249-421-11	CARBON	2.2K 5% 1/4W
R471	1-249-430-11	CARBON	12K 5% 1/4W	R1148	1-249-421-11	CARBON	2.2K 5% 1/4W
R472	1-249-417-11	CARBON	1K 5% 1/4W	R1149	1-249-421-11	CARBON	2.2K 5% 1/4W
R473	1-249-440-11	CARBON	82K 5% 1/4W	R1150	1-249-421-11	CARBON	2.2K 5% 1/4W
R474	1-249-424-11	CARBON	3.9K 5% 1/4W	R1151	1-249-421-11	CARBON	2.2K 5% 1/4W
R475	1-249-426-11	CARBON	5.6K 5% 1/4W	R1152	1-249-409-11	CARBON	220 5% 1/4W
R476	1-249-432-11	CARBON	18K 5% 1/4W	R1153	1-249-429-11	CARBON	10K 5% 1/4W
R477	1-247-704-11	CARBON	220 5% 1/4W	R1154	1-247-885-00	CARBON	180K 5% 1/4W
R478	1-247-704-11	CARBON	220 5% 1/4W	R1155	1-249-433-11	CARBON	22K 5% 1/4W
R479	1-247-704-11	CARBON	220 5% 1/4W	R1156	1-249-397-11	CARBON	22 5% 1/4W
R480	1-249-431-11	CARBON	15K 5% 1/4W	R1157	1-249-397-11	CARBON	22 5% 1/4W
R493	1-249-413-11	CARBON	470 5% 1/4W	R1158	1-249-397-11	CARBON	22 5% 1/4W
R494	1-249-416-11	CARBON	820 5% 1/4W	R1159	1-249-397-11	CARBON	22 5% 1/4W
R495	1-249-418-11	CARBON	1.2K 5% 1/4W	R1160	1-249-397-11	CARBON	22 5% 1/4W
R496	1-249-416-11	CARBON	820 5% 1/4W	R1161	1-249-397-11	CARBON	22 5% 1/4W
R497	1-249-433-11	CARBON	22K 5% 1/4W	R1162	1-249-397-11	CARBON	22 5% 1/4W
R498	1-249-429-11	CARBON	10K 5% 1/4W	R1163	1-249-432-11	CARBON	18K 5% 1/4W
R499	1-249-413-11	CARBON	470 5% 1/4W	R1164	1-249-433-11	CARBON	22K 5% 1/4W
R1101	1-249-411-11	CARBON	330 5% 1/4W	R1166	1-247-889-00	CARBON	270K 5% 1/4W
R1102	1-249-435-11	CARBON	33K 5% 1/4W	R1199	1-249-434-11	CARBON	27K 5% 1/4W
R1103	1-249-441-11	CARBON	100K 5% 1/4W	R1301	1-249-415-11	CARBON	680 5% 1/4W
R1104	1-249-429-11	CARBON	10K 5% 1/4W	R1302	1-249-416-11	CARBON	820 5% 1/4W
R1105	1-249-417-11	CARBON	1K 5% 1/4W	R1303	1-249-429-11	CARBON	10K 5% 1/4W
R1106	1-247-883-00	CARBON	150K 5% 1/4W	R1304	1-249-418-11	CARBON	1.2K 5% 1/4W
R1107	1-249-429-11	CARBON	10K 5% 1/4W	R1305	1-249-433-11	CARBON	22K 5% 1/4W
R1108	1-249-434-11	CARBON	27K 5% 1/4W	R1306	1-249-413-11	CARBON	470 5% 1/4W
R1109	1-249-440-11	CARBON	82K 5% 1/4W	R1307	1-249-415-11	CARBON	680 5% 1/4W
R1110	1-249-427-11	CARBON	6.8K 5% 1/4W	R1308	1-249-416-11	CARBON	820 5% 1/4W
R1111	1-249-435-11	CARBON	33K 5% 1/4W	R1309	1-249-418-11	CARBON	1.2K 5% 1/4W
R1112	1-247-868-11	CARBON	36K 5% 1/4W	R1310	1-249-433-11	CARBON	22K 5% 1/4W
R1113	1-247-724-11	CARBON	8.2K 5% 1/4W	R1311	1-249-429-11	CARBON	10K 5% 1/4W
R1114	1-249-428-11	CARBON	8.2K 5% 1/4W	R1312	1-249-422-11	CARBON	2.7K 5% 1/4W
R1115	1-249-435-11	CARBON	33K 5% 1/4W	R1313	1-249-422-11	CARBON	2.7K 5% 1/4W
R1116	1-249-432-11	CARBON	18K 5% 1/4W	R1314	1-249-422-11	CARBON	2.7K 5% 1/4W
R1117	1-249-435-11	CARBON	33K 5% 1/4W	R1319	1-247-903-00	CARBON	1M 5% 1/4W
R1118	1-249-429-11	CARBON	10K 5% 1/4W	R1322	1-249-421-11	CARBON	2.2K 5% 1/4W
R1119	1-249-435-11	CARBON	33K 5% 1/4W	R1323	1-249-417-11	CARBON	1K 5% 1/4W
R1120	1-247-725-11	CARBON	10K 5% 1/4W	R1324	1-247-866-11	CARBON	30K 5% 1/4W
R1121	1-249-421-11	CARBON	2.2K 5% 1/4W	R1325	1-249-421-11	CARBON	2.2K 5% 1/4W
R1122	1-249-421-11	CARBON	2.2K 5% 1/4W	R1326	1-249-436-11	CARBON	39K 5% 1/4W
R1123	1-247-719-11	CARBON	3.3K 5% 1/4W	R1327	1-249-429-11	CARBON	10K 5% 1/4W
R1124	1-249-429-11	CARBON	10K 5% 1/4W	R1328	1-249-433-11	CARBON	22K 5% 1/4W
R1125	1-249-404-00	CARBON	82 5% 1/4W	R1353	1-249-425-11	CARBON	4.7K 5% 1/4W
R1126	1-249-395-11	CARBON	15 5% 1/4W	R1360	1-249-441-11	CARBON	100K 5% 1/4W
R1127	1-249-395-11	CARBON	15 5% 1/4W	R1361	1-247-887-00	CARBON	220K 5% 1/4W
R1128	1-249-417-11	CARBON	1K 5% 1/4W	R1362	1-249-417-11	CARBON	1K 5% 1/4W
R1129	1-249-423-11	CARBON	3.3K 5% 1/4W	R1363	1-249-429-11	CARBON	10K 5% 1/4W
R1130	1-249-429-11	CARBON	10K 5% 1/4W	R1364	1-247-903-00	CARBON	1M 5% 1/4W
R1131	1-249-421-11	CARBON	2.2K 5% 1/4W				

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1365	1-249-417-11	CARBON	1K 5% 1/4W	R1437	1-249-420-11	CARBON	1.8K 5% 1/4W
R1366	1-249-421-11	CARBON	2.2K 5% 1/4W	R1438	1-249-429-11	CARBON	10K 5% 1/4W
R1367	1-249-435-11	CARBON	33K 5% 1/4W	R1439	1-249-429-11	CARBON	10K 5% 1/4W
R1368	1-249-435-11	CARBON	33K 5% 1/4W	R1440	1-249-429-11	CARBON	10K 5% 1/4W
R1369	1-249-437-11	CARBON	47K 5% 1/4W	R1441	1-249-409-11	CARBON	220 5% 1/4W
R1370	1-247-881-00	CARBON	120K 5% 1/4W	R1442	1-249-409-11	CARBON	220 5% 1/4W
R1371	1-249-417-11	CARBON	1K 5% 1/4W	R1443	1-249-405-11	CARBON	100 5% 1/4W
R1372	1-249-430-11	CARBON	12K 5% 1/4W	R1444	1-249-405-11	CARBON	100 5% 1/4W
R1373	1-247-844-11	CARBON	3.6K 5% 1/4W	R1445	1-249-405-11	CARBON	100 5% 1/4W
R1374	1-249-427-11	CARBON	6.8K 5% 1/4W	R1446	1-249-421-11	CARBON	2.2K 5% 1/4W
R1375	1-249-425-11	CARBON	4.7K 5% 1/4W	R1447	1-249-405-11	CARBON	100 5% 1/4W
R1376	1-249-437-11	CARBON	47K 5% 1/4W	R1448	1-249-405-11	CARBON	100 5% 1/4W
R1377	1-249-435-11	CARBON	33K 5% 1/4W	R1449	1-249-405-11	CARBON	100 5% 1/4W
R1378	1-249-429-11	CARBON	10K 5% 1/4W	R1450	1-249-405-11	CARBON	100 5% 1/4W
R1379	1-249-441-11	CARBON	100K 5% 1/4W	R1451	1-249-405-11	CARBON	100 5% 1/4W
R1380	1-249-419-11	CARBON	1.5K 5% 1/4W	R1452	1-249-405-11	CARBON	100 5% 1/4W
R1381	1-249-409-11	CARBON	220 5% 1/4W	R1453	1-249-430-11	CARBON	12K 5% 1/4W
R1382	1-249-426-11	CARBON	5.6K 5% 1/4W	R1454	1-249-429-11	CARBON	10K 5% 1/4W
R1384	1-249-435-11	CARBON	33K 5% 1/4W	R1455	1-249-433-11	CARBON	22K 5% 1/4W
R1385	1-249-431-11	CARBON	15K 5% 1/4W	R1456	1-249-429-11	CARBON	10K 5% 1/4W
R1386	1-249-433-11	CARBON	22K 5% 1/4W	R1457	1-249-438-11	CARBON	56K 5% 1/4W
R1387	1-249-427-11	CARBON	6.8K 5% 1/4W	R1458	1-249-427-11	CARBON	6.8K 5% 1/4W
R1388	1-249-439-11	CARBON	68K 5% 1/4W	R1459	1-247-903-00	CARBON	1M 5% 1/4W
R1389	1-247-895-00	CARBON	470K 5% 1/4W	R1460	1-249-421-11	CARBON	2.2K 5% 1/4W
R1390	1-249-417-11	CARBON	1K 5% 1/4W	R1461	1-249-421-11	CARBON	2.2K 5% 1/4W
R1391	1-249-433-11	CARBON	22K 5% 1/4W	R1462	1-249-421-11	CARBON	2.2K 5% 1/4W
R1393	1-247-881-00	CARBON	120K 5% 1/4W	R1463	1-249-403-11	CARBON	68 5% 1/4W
R1394	1-249-431-11	CARBON	15K 5% 1/4W	R1464	1-249-401-11	CARBON	47 5% 1/4W
R1395	1-249-429-11	CARBON	10K 5% 1/4W	R1465	1-249-405-11	CARBON	100 5% 1/4W
R1401	1-247-881-00	CARBON	120K 5% 1/4W	R1466	1-249-417-11	CARBON	1K 5% 1/4W
R1402	1-247-887-00	CARBON	220K 5% 1/4W	R1467	1-249-417-11	CARBON	1K 5% 1/4W
R1403	1-247-887-00	CARBON	220K 5% 1/4W	R1468	1-249-417-11	CARBON	1K 5% 1/4W
R1404	1-249-433-11	CARBON	22K 5% 1/4W	R1469	1-247-903-00	CARBON	1M 5% 1/4W
R1405	1-249-437-11	CARBON	47K 5% 1/4W	R1470	1-247-903-00	CARBON	1M 5% 1/4W
R1406	1-249-437-11	CARBON	47K 5% 1/4W	R1471	1-247-903-00	CARBON	1M 5% 1/4W
R1407	1-249-417-11	CARBON	1K 5% 1/4W	R1472	1-247-887-00	CARBON	220K 5% 1/4W
R1408	1-249-429-11	CARBON	10K 5% 1/4W	R1473	1-249-421-11	CARBON	2.2K 5% 1/4W
R1409	1-249-429-11	CARBON	10K 5% 1/4W	R1474	1-249-421-11	CARBON	2.2K 5% 1/4W
R1410	1-249-433-11	CARBON	22K 5% 1/4W	R1475	1-249-421-11	CARBON	2.2K 5% 1/4W
R1411	1-249-419-11	CARBON	1.5K 5% 1/4W	R1476	1-249-421-11	CARBON	2.2K 5% 1/4W
R1412	1-249-411-11	CARBON	330 5% 1/4W	R1477	1-249-423-11	CARBON	3.3K 5% 1/4W
R1413	1-249-409-11	CARBON	220 5% 1/4W	R1478	1-249-423-11	CARBON	3.3K 5% 1/4W
R1414	1-249-426-11	CARBON	5.6K 5% 1/4W	R1479	1-249-423-11	CARBON	3.3K 5% 1/4W
R1415	1-249-434-11	CARBON	27K 5% 1/4W	R1480	1-249-429-11	CARBON	10K 5% 1/4W
R1416	1-249-405-11	CARBON	100 5% 1/4W	R1481	1-247-901-11	CARBON	820K 5% 1/4W
R1417	1-249-421-11	CARBON	2.2K 5% 1/4W	R1482	1-247-903-00	CARBON	1M 5% 1/4W
R1418	1-249-409-11	CARBON	220 5% 1/4W	R1483	1-249-421-11	CARBON	2.2K 5% 1/4W
R1419	1-249-429-11	CARBON	10K 5% 1/4W	R1484	1-215-471-00	METAL	120K 1% 1/6W
R1420	1-249-429-11	CARBON	10K 5% 1/4W	R1486	1-249-425-11	CARBON	4.7K 5% 1/4W
R1421	1-249-417-11	CARBON	1K 5% 1/4W	R1487	1-247-848-11	CARBON	5.1K 5% 1/4W
R1422	1-249-409-11	CARBON	220 5% 1/4W	R1488	1-215-419-00	METAL	820 1% 1/6W
R1423	1-249-423-11	CARBON	3.3K 5% 1/4W	R1489	1-249-414-11	CARBON	560 5% 1/4W
R1425	1-249-429-11	CARBON	10K 5% 1/4W	R1490	1-249-414-11	CARBON	560 5% 1/4W
R1426	1-249-423-11	CARBON	3.3K 5% 1/4W	R1491	1-249-429-11	CARBON	10K 5% 1/4W
R1427	1-216-399-00	METAL OXIDE	6.8 5% 3W F	R1492	1-247-848-11	CARBON	5.1K 5% 1/4W
R1428	1-249-429-11	CARBON	10K 5% 1/4W	R1499	1-249-435-11	CARBON	33K 5% 1/4W
R1429	1-249-414-11	CARBON	560 5% 1/4W	<VARIABLE RESISTOR>			
R1430	1-249-429-11	CARBON	10K 5% 1/4W	RV301	1-228-991-00	RES. ADJ. CARBON	2.2K
R1431	1-249-435-11	CARBON	33K 5% 1/4W	RV410	1-228-994-00	RES. ADJ. CARBON	10K
R1432	1-249-433-11	CARBON	22K 5% 1/4W	RV411	1-228-994-00	RES. ADJ. CARBON	10K
R1433	1-249-437-11	CARBON	47K 5% 1/4W	RV450	1-228-997-00	RES. ADJ. CARBON	100K
R1434	1-247-889-00	CARBON	270K 5% 1/4W	RV451	1-228-989-00	RES. ADJ. CARBON	470
R1435	1-249-429-11	CARBON	10K 5% 1/4W				
R1436	1-249-433-11	CARBON	22K 5% 1/4W				

FA FC

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.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
IC602	8-719-802-22	DIODE TLP581-Y		R677	1-216-346-00	METAL OXIDE 0.56 5% 1W	F
IC651	8-759-945-58	IC RC4558P		R678	1-247-749-11	CARBON 560 5% 1/2W	F
		<COIL>		R679	1-215-925-11	METAL OXIDE 22K 5% 3W	F
L601	1-408-159-00	COIL, SPOOK CHOKE		R680	1-207-971-00	WIREWOUND 470 10% 7W	F
L651	1-459-215-00	COIL (WITH CORE)		R682	1-249-429-11	CARBON 10K 5% 1/4W	
L652	1-408-159-00	COIL, SPOOK CHOKE		R683	1-216-488-11	METAL OXIDE 18K 5% 3W	F
L653	1-408-159-00	COIL, SPOOK CHOKE		Δ R684	METAL		1/4W
L654	1-459-215-00	CORE COIL		*1-506-371-00	PIN, CONNECTOR 2P; R684		
L655	1-459-215-00	CORE COIL		Δ R685	METAL		1/4W
		<TRANSISTOR>		*1-506-371-00	PIN, CONNECTOR 2P; R685		
Q601	8-729-195-82	TRANSISTOR 2SC2958-L		R686	1-249-447-11	CARBON 1 5% 1/4W	
Q602	8-729-820-96	TRANSISTOR 2SC3996CA		R687	1-249-447-11	CARBON 1 5% 1/4W	
		4-365-216-00	SPACER, MICA; Q602	R689	1-249-421-11	CARBON 2.2K 5% 1/4W	
Q641	8-729-119-76	TRANSISTOR 2SA1175-HFE				<RELAY>	
Q642	8-729-140-96	TRANSISTOR 2SD774-34		RL601	1-515-450-21	RELAY, POWER	
Q651	8-729-119-76	TRANSISTOR 2SA1175-HFE		RL602	1-515-738-11	RELAY	
Q654	8-729-119-76	TRANSISTOR 2SA1175-HFE				<VARIABLE RESISTOR>	
		<RESISTOR>		RV651	1-230-504-11	RES, ADJ, CARBON 220	
R601	1-202-719-00	SOLID 1M 10% 1/2W		*3-710-578-01	COVER, VOLUME, 6 MOLD; RV651		
R602	1-202-727-00	SOLID 4.7M 10% 1/2W		RV652	1-230-504-11	RES, ADJ, CARBON 220	
R603	1-214-915-00	CARBON 120K 5% 1/2W		*3-710-578-01	COVER, VOLUME, 6 MOLD; RV652		
R604	1-214-915-00	CARBON 120K 5% 1/2W				<TRANSFORMER>	
R609	1-215-894-11	METAL OXIDE 2.2K 5% 2W	F	T601	1-421-662-11	LFT	
R612	1-215-929-11	METAL OXIDE 100K 5% 3W	F	T602	1-421-662-11	LFT	
R613	1-215-920-11	METAL OXIDE 3.3K 5% 3W	F	T603	1-448-755-11	TRANSFORMER, POWER	
R614	1-216-486-00	METAL OXIDE 8.2K 5% 3W	F	T604	1-437-079-11	TRANSFORMER, HORIZONTAL DRIVE	
R615	1-205-793-00	WIREWOUND 30K 10% 10W		T605	1-449-810-11	TRANSFORMER	
R617	1-216-487-11	METAL OXIDE 12K 5% 3W	F			<THERMISTOR>	
R623	1-247-718-11	CARBON 2.7K 5% 1/4W		TH651	1-800-070-99	THERMISTOR TH-4700	
R627	1-249-409-11	CARBON 220 5% 1/4W		THP601	1-808-081-13	THERMISTOR, POSITIVE	
R628	1-247-889-00	CARBON 270K 5% 1/4W				*****	
R629	1-249-427-11	CARBON 6.8K 5% 1/4W		*1-631-953-11	FC BOARD		
R630	1-247-692-11	CARBON 22 5% 1/4W	F	*****			
R631	1-207-945-00	WIREWOUND 390 10% 7W	F			<CAPACITOR>	
R632	1-217-192-21	WIREWOUND 0.22 10% 2W	F	C611	1-108-638-11	MYLAR 0.1MF 10% 100V	
R641	1-249-405-11	CARBON 100 5% 1/4W		C612	1-108-796-11	MYLAR 0.0022MF 5% 50V	
R642	1-249-429-11	CARBON 10K 5% 1/4W		C613	1-123-356-00	ELECT 10MF 20% 16V	
R643	1-249-433-11	CARBON 22K 5% 1/4W		C614	1-123-330-00	ELECT 22MF 20% 25V	
R644	1-249-429-11	CARBON 10K 5% 1/4W		C615	1-102-074-00	CERAMIC 0.001MF 10% 50V	
R645	1-249-429-11	CARBON 10K 5% 1/4W		C616	1-123-875-11	ELECT 10MF 20% 50V	
R646	1-215-885-00	METAL OXIDE 68 5% 2W	F	C625	1-124-791-11	ELECT 1MF 20% 50V	
R654	1-216-381-11	METAL OXIDE 0.22 5% 3W	F	C627	1-136-153-00	FILM 0.01MF 5% 50V	
R655	1-249-425-11	CARBON 4.7K 5% 1/4W		C628	1-102-820-00	CERAMIC 330PF 5% 50V	
R656	1-249-429-11	CARBON 10K 5% 1/4W		C634	1-108-638-11	MYLAR 0.1MF 10% 100V	
R657	1-249-429-11	CARBON 10K 5% 1/4W				<DIODE>	
R658	1-249-417-11	CARBON 1K 5% 1/4W		D604	8-719-911-19	DIODE 1SS119	
R659	1-249-425-11	CARBON 4.7K 5% 1/4W		D605	8-759-157-40	IC UPC574J	
R660	1-249-410-11	CARBON 270 5% 1/4W		D607	8-719-911-19	DIODE 1SS119	
R661	1-249-423-11	CARBON 3.3K 5% 1/4W				<CONNECTOR>	
R662	1-249-436-11	CARBON 39K 5% 1/4W		FC1	*1-562-516-11	CONNECTOR, BOARD TO BOARD 5P	
R663	1-249-430-11	CARBON 12K 5% 1/4W					
R664	1-249-441-11	CARBON 100K 5% 1/4W					
R665	1-215-438-00	METAL 5.1K 1% 1/6W					
R666	1-247-713-11	CARBON 1K 5% 1/4W					
R667	1-247-703-11	CARBON 180 5% 1/4W					
R669	1-247-720-11	CARBON 3.9K 5% 1/4W					
R670	1-249-420-11	CARBON 1.8K 5% 1/4W					
R671	1-249-429-11	CARBON 10K 5% 1/4W					



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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
FC2	*1-562-516-11	CONNECTOR, BOARD TO BOARD 5P				<IC>	
		<IC>		IC699	8-759-700-42	IC NJM2904D	
IC601	⊠ 8-759-100-75	IC UPC1394C				<COIL>	
		<TRANSISTOR>		L699	⊠ 1-459-526-11	COIL, CHOKE	
Q603	8-729-178-55	TRANSISTOR 2SC2785-E				<TRANSISTOR>	
		<RESISTOR>		Q699	8-729-119-76	TRANSISTOR 2SA1175-HFE	
R605	1-247-891-00	CARBON	330K 5% 1/4W			<RESISTOR>	
R606	1-249-433-11	CARBON	22K 5% 1/4W	R672	1-249-417-11	CARBON	1K 5% 1/4W
R608	1-249-421-11	CARBON	2.2K 5% 1/4W	R673	1-215-925-11	METAL OXIDE	22K 5% 3W F
R611	1-215-449-00	METAL	15K 1% 1/6W	R675	1-215-473-00	METAL	150K 1% 1/6W
R616	1-247-862-11	CARBON	20K 5% 1/4W	R676	1-215-473-00	METAL	150K 1% 1/6W
R620	1-215-467-00	METAL	82K 1% 1/6W	R688	1-249-429-11	CARBON	10K 5% 1/4W
R621	1-249-426-11	CARBON	5.6K 5% 1/4W	R690	1-215-445-00	METAL	10K 1% 1/6W
R622	1-249-431-11	CARBON	15K 5% 1/4W	⊠ R691	⊠	METAL	1/4W
R624	1-249-425-11	CARBON	4.7K 5% 1/4W		*1-506-371-00	PIN, CONNECTOR 2P;	R691
R625	1-249-441-11	CARBON	100K 5% 1/4W	R692	1-215-435-00	METAL	3.9K 1% 1/6W
R626	1-247-712-11	CARBON	820 5% 1/4W	R693	1-249-421-11	CARBON	2.2K 5% 1/4W
R633	1-247-887-00	CARBON	220K 5% 1/4W	R694	1-215-431-00	METAL	2.7K 1% 1/6W
R634	1-249-437-11	CARBON	47K 5% 1/4W	R695	1-249-429-11	CARBON	10K 5% 1/4W
R636	1-215-471-00	METAL	120K 1% 1/6W	R696	1-247-895-00	CARBON	470K 5% 1/4W
R637	1-249-433-11	CARBON	22K 5% 1/4W	R697	1-247-700-11	CARBON	100 5% 1/4W
R638	1-215-435-00	METAL	3.9K 1% 1/6W	R698	1-249-455-11	CARBON	4.7 5% 1/4W F
R639	1-215-443-00	METAL	8.2K 1% 1/6W	R699	1-215-885-00	METAL OXIDE	68 5% 2W F
R674	1-249-440-11	CARBON	82K 5% 1/4W			<TRANSFORMER>	
		<THERMISTOR>		T699	⊠ 1-439-478-11	TRANSFORMER ASSY, FLYBACK (NX-2302)	
TH601	1-800-070-99	THERMISTOR TH-4700				*A-1331-078-A	C BOARD, COMPLETE
		*****				*****	
	*1-631-952-11	FB BOARD	*****			*1-506-371-00	PIN, CONNECTOR 2P
	*4-341-752-01	EYELET (EY1,EY2)				*1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P
		<CAPACITOR>				*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P
C693	1-124-768-11	ELECT	4.7MF 20% 50V			1-526-798-51	SOCKET, PICTURE TUBE
C694	1-101-003-00	CERAMIC	0.0047MF 50V			*1-564-505-11	PLUG, CONNECTOR 2P
C695	1-124-910-11	ELECT	47MF 20% 50V			*1-564-512-11	PLUG, CONNECTOR 9P
C696	1-123-332-00	ELECT	47MF 20% 16V				<CAPACITOR>
C697	1-123-356-00	ELECT	10MF 20% 16V	C701	1-162-115-00	CERAMIC	330PF 10% 2KV
C698	1-101-006-00	CERAMIC	0.047MF 50V	C702	1-136-101-00	FILM	0.022MF 3% 2KV
C699	1-108-686-11	MYLAR	0.0033MF 10% 200V	C704	1-123-948-00	ELECT	22MF 20% 250V
		<DIODE>		C705	1-106-391-12	MYLAR	0.1MF 10% 200V
D697	8-719-110-67	DIODE RD27ES-B2		C706	1-106-391-12	MYLAR	0.1MF 10% 200V
D698	8-719-109-81	DIODE RD4.7ES-B2		C707	1-102-116-00	CERAMIC	680PF 10% 50V
D699	8-719-911-55	DIODE U05G		C708	1-102-116-00	CERAMIC	680PF 10% 50V
		<CONNECTOR>		C709	1-102-116-00	CERAMIC	680PF 10% 50V
FB1	*1-506-348-99	PIN, CONNECTOR 4P		C710	1-102-117-00	CERAMIC	820PF 10% 50V
FB2	*1-564-507-11	PLUG, CONNECTOR 4P		C712	1-102-117-00	CERAMIC	820PF 10% 50V
FB3	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P		C713	1-102-074-00	CERAMIC	0.001MF 10% 50V
				C714	1-102-114-00	CERAMIC	470PF 10% 50V
				C715	1-102-114-00	CERAMIC	470PF 10% 50V
				C716	1-102-114-00	CERAMIC	470PF 10% 50V
				C718	1-101-006-00	CERAMIC	0.047MF 50V



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C719	1-129-718-00	FILM	0.022MF	10%	630V		
C720	1-162-622-11	CERAMIC	330PF	10%	6.3KV		
C721	1-102-980-00	CERAMIC	270PF	5%	50V		
C722	1-102-980-00	CERAMIC	270PF	5%	50V		
C723	1-102-980-00	CERAMIC	270PF	5%	50V		
C724	1-101-006-00	CERAMIC	0.047MF		50V		
C725	1-124-120-11	ELECT	220MF	20%	16V		
C726	1-102-129-00	CERAMIC	0.01MF	10%	50V		
C727	1-101-888-00	CERAMIC	68PF	5%	50V		
C728	1-101-888-00	CERAMIC	68PF	5%	50V		
C729	1-101-888-00	CERAMIC	68PF	5%	50V		
C730	1-102-129-00	CERAMIC	0.01MF	10%	50V		
<DIODE>							
D701	8-719-911-19	DIODE	1SS119				
D702	8-719-911-19	DIODE	1SS119				
D703	8-719-911-19	DIODE	1SS119				
D704	8-719-911-19	DIODE	1SS119				
D705	8-719-911-19	DIODE	1SS119				
D706	8-719-911-19	DIODE	1SS119				
D707	8-719-911-19	DIODE	1SS119				
D708	8-719-911-19	DIODE	1SS119				
D709	8-719-911-19	DIODE	1SS119				
D710	8-719-901-83	DIODE	1SS83				
D711	8-719-901-83	DIODE	1SS83				
D712	8-719-901-83	DIODE	1SS83				
D713	8-719-901-83	DIODE	1SS83				
D717	8-719-110-03	DIODE	RD7.5ES-B2				
D718	8-719-110-03	DIODE	RD7.5ES-B2				
D719	8-719-110-03	DIODE	RD7.5ES-B2				
D720	8-719-109-62	DIODE	RD3.0ES-B1				
<COIL>							
L701	1-408-417-00	INDUCTOR	47UH				
L702	1-408-426-00	INDUCTOR	270UH				
L703	1-408-425-00	INDUCTOR	220UH				
L706	1-408-425-00	INDUCTOR	220UH				
L708	1-410-663-31	INDUCTOR	10UH				
<TRANSISTOR>							
Q701	8-729-326-11	TRANSISTOR	2SC2611				
	*4-363-146-11	HEAT SINK, V. OUT;	Q701				
Q702	8-729-142-86	TRANSISTOR	2SC3733				
Q703	8-729-200-17	TRANSISTOR	2SA1091-0				
Q704	8-729-326-11	TRANSISTOR	2SC2611				
	*4-363-146-11	HEAT SINK, V. OUT;	Q704				
Q705	8-729-142-86	TRANSISTOR	2SC3733				
Q706	8-729-200-17	TRANSISTOR	2SA1091-0				
Q707	8-729-200-17	TRANSISTOR	2SA1091-0				
Q708	8-729-326-11	TRANSISTOR	2SC2611				
	*4-363-146-11	HEAT SINK, V. OUT;	Q708				
Q709	8-729-142-86	TRANSISTOR	2SC3733				
Q710	8-729-255-12	TRANSISTOR	2SC2551-0				
Q712	8-729-255-12	TRANSISTOR	2SC2551-0				
Q714	8-729-200-17	TRANSISTOR	2SA1091-0				
Q715	8-729-200-17	TRANSISTOR	2SA1091-0				
Q716	8-729-200-17	TRANSISTOR	2SA1091-0				
Q727	8-729-803-76	TRANSISTOR	2SA1371-E				
Q728	8-729-803-76	TRANSISTOR	2SA1371-E				
Q729	8-729-803-76	TRANSISTOR	2SA1371-E				
				<RESISTOR>			
R702	1-202-838-00	SOLID	100K	10%	1/2W		
R703	1-202-845-00	SOLID	390K	10%	1/2W		
R706	1-202-720-00	SOLID	1.2M	10%	1/2W		
R707	1-202-842-11	SOLID	220K	10%	1/2W		
R709	1-202-818-00	SOLID	1K	10%	1/2W		
R710	1-202-818-00	SOLID	1K	10%	1/2W		
R712	1-202-543-00	SOLID	56	10%	1/2W		
R713	1-215-947-00	METAL OXIDE	6.8K	5%	5W	F	
R716	1-215-947-00	METAL OXIDE	6.8K	5%	5W	F	
R719	1-249-441-11	CARBON	100K	5%	1/4W		
R720	1-215-947-00	METAL OXIDE	6.8K	5%	5W	F	
R722	1-249-401-11	CARBON	47	5%	1/4W		
R723	1-249-401-11	CARBON	47	5%	1/4W		
R724	1-249-401-11	CARBON	47	5%	1/4W		
R725	1-249-429-11	CARBON	10K	5%	1/4W		
R726	1-247-810-11	CARBON	130	5%	1/4W		
R727	1-249-429-11	CARBON	10K	5%	1/4W		
R728	1-247-810-11	CARBON	130	5%	1/4W		
R729	1-249-383-11	CARBON	1.5	5%	1/4W		
R730	1-249-406-11	CARBON	120	5%	1/4W		
R731	1-247-704-11	CARBON	220	5%	1/4W	F	
R732	1-247-704-11	CARBON	220	5%	1/4W	F	
R733	1-247-704-11	CARBON	220	5%	1/4W	F	
R734	1-247-712-11	CARBON	820	5%	1/4W		
R735	1-247-712-11	CARBON	820	5%	1/4W		
R736	1-247-711-11	CARBON	680	5%	1/4W		
R737	1-249-433-11	CARBON	22K	5%	1/4W		
R739	1-249-436-11	CARBON	39K	5%	1/4W		
R740	1-215-902-11	METAL OXIDE	47K	5%	2W	F	
R741	1-249-431-11	CARBON	15K	5%	1/4W		
R742	1-247-725-11	CARBON	10K	5%	1/4W	F	
R743	1-247-725-11	CARBON	10K	5%	1/4W	F	
R744	1-247-725-11	CARBON	10K	5%	1/4W	F	
R745	1-247-713-11	CARBON	1K	5%	1/4W	F	
R746	1-215-902-11	METAL OXIDE	47K	5%	1W	F	
R747	1-247-725-11	CARBON	10K	5%	1/4W	F	
R749	1-202-818-00	SOLID	1K	10%	1/2W		
R750	1-249-383-11	CARBON	1.5	5%	1/4W		
R766	1-247-893-11	CARBON	390K	5%	1/4W		
R768	1-215-894-11	METAL OXIDE	2.2K	5%	2W	F	
R772	1-247-893-11	CARBON	390K	5%	1/4W		
R774	1-215-894-11	METAL OXIDE	2.2K	5%	2W	F	
R775	1-247-893-11	CARBON	390K	5%	1/4W		
R777	1-215-894-11	METAL OXIDE	2.2K	5%	2W	F	
R778	1-202-842-11	SOLID	220K	10%	1/2W		
R779	1-202-842-11	SOLID	220K	10%	1/2W		
R780	1-249-429-11	CARBON	10K	5%	1/4W		
R781	1-249-426-11	CARBON	5.6K	5%	1/4W		
R782	1-249-430-11	CARBON	12K	5%	1/4W		
				<VARIABLE RESISTOR>			
RV701	1-226-157-00	RES. ADJ. METAL GLAZE	1M				
RV702	1-230-619-11	RES. ADJ. METAL GLAZE	110M				
	*4-379-160-01	COVER (REAR LID), CV;	RV702				
	*4-379-167-01	COVER (MAIN), CV;	RV702				
RV703	1-228-997-00	RES. ADJ. CARBON	100K				
RV705	1-228-996-00	RES. ADJ. CARBON	47K				
RV709	1-228-994-00	RES. ADJ. CARBON	10K				



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
	*1-624-275-11	V BOARD *****					
		<CAPACITOR>				<CAPACITOR>	
C751	1-102-971-00	CERAMIC 82PF	5% 50V	C2501	1-123-356-00	ELECT 10MF	20% 16V
C752	1-108-617-11	MYLAR 0.0018MF	10% 100V	C2502	1-136-153-00	FILM 0.01MF	5% 50V
C754	1-126-101-11	ELECT 100MF	20% 16V	C2503	1-124-791-11	ELECT 1MF	20% 50V
C756	1-108-626-11	MYLAR 0.01MF	10% 100V	C2504	1-124-791-11	ELECT 1MF	20% 50V
C758	1-108-626-11	MYLAR 0.01MF	10% 100V	C2505	1-130-483-00	MYLAR 0.01MF	5% 50V
C760	1-124-925-11	ELECT 2.2MF	20% 50V	C2506	1-108-816-11	MYLAR 0.1MF	5% 50V
C761	1-108-638-11	MYLAR 0.1MF	10% 100V	C2507	1-124-927-11	ELECT 4.7MF	20% 50V
C763	1-124-122-11	ELECT 100MF	20% 35V	C2508	1-136-165-00	FILM 0.1MF	5% 50V
C764	1-126-176-11	ELECT 220MF	20% 6.3V	C2509	1-130-483-00	MYLAR 0.01MF	5% 50V
C765	1-101-006-00	CERAMIC 0.047MF	50V	C2510	1-130-481-00	MYLAR 0.0068MF	5% 50V
C766	1-124-122-11	ELECT 100MF	20% 35V	C2511	1-124-791-11	ELECT 1MF	20% 50V
		<COIL>		C2512	1-102-947-00	CERAMIC 10PF	0.5PF 50V
L751	1-408-411-00	INDUCTOR 15UH		C2520	1-130-471-00	MYLAR 0.001MF	5% 50V
L752	1-410-482-31	INDUCTOR 100UH		C2521	1-136-161-00	FILM 0.047MF	5% 50V
		<TRANSISTOR>		C2522	1-123-356-00	ELECT 10MF	20% 25V
Q751	8-729-119-78	TRANSISTOR 2SC2785-HFE		C2523	1-126-233-11	ELECT 22MF	20% 25V
Q752	8-729-119-78	TRANSISTOR 2SC2785-HFE		C2524	1-123-356-00	ELECT 10MF	20% 16V
Q753	8-729-208-71	TRANSISTOR 2SC3298B-0		C2525	1-136-173-00	FILM 0.47MF	5% 50V
Q754	8-729-208-38	TRANSISTOR 2SA1306A-0		C2527	1-124-791-11	ELECT 1MF	20% 50V
Q755	8-729-208-71	TRANSISTOR 2SC3298B-0		C2528	1-123-356-00	ELECT 10MF	20% 25V
Q756	8-729-231-60	TRANSISTOR 2SD1406-YGR		C2529	1-136-157-00	FILM 0.022MF	5% 50V
Q757	8-729-119-78	TRANSISTOR 2SC2785-HFE		C2530	1-136-153-00	FILM 0.01MF	5% 50V
		<RESISTOR>		C2531	1-136-153-00	FILM 0.01MF	5% 50V
R751	1-249-409-11	CARBON 220	5% 1/4W	C2550	1-124-478-11	ELECT 100MF	20% 25V
R752	1-249-409-11	CARBON 220	5% 1/4W	C2551	1-136-153-00	FILM 0.01MF	5% 50V
R753	1-249-415-11	CARBON 680	5% 1/4W	C2552	1-124-477-11	ELECT 47MF	20% 16V
R754	1-249-416-11	CARBON 820	5% 1/4W	C2553	1-126-101-11	ELECT 100MF	20% 16V
R755	1-216-431-11	METAL OXIDE 560	5% 1W F	C2554	1-136-153-00	FILM 0.01MF	5% 50V
R756	1-249-414-11	CARBON 560	5% 1/4W	C2555	1-123-356-00	ELECT 10MF	20% 25V
R757	1-249-426-11	CARBON 5.6K	5% 1/4W	C2556	1-123-356-00	ELECT 10MF	20% 25V
R758	1-249-435-11	CARBON 33K	5% 1/4W	C2557	1-123-356-00	ELECT 10MF	20% 25V
R759	1-249-393-11	CARBON 10	5% 1/4W F	C2558	1-123-356-00	ELECT 10MF	20% 25V
R760	1-216-449-11	METAL OXIDE 56	5% 2W F	C2559	1-123-356-00	ELECT 10MF	20% 25V
R764	1-249-409-11	CARBON 220	5% 1/4W	C2560	1-136-153-00	FILM 0.01MF	5% 50V
R765	1-249-379-11	CARBON 0.68	5% 1/4W F	C2561	1-136-153-00	FILM 0.01MF	5% 50V
R766	1-249-426-11	CARBON 5.6K	5% 1/4W	C2562	1-123-356-00	ELECT 10MF	20% 25V
R767	1-249-417-11	CARBON 1K	5% 1/4W	C2570	1-124-478-11	ELECT 100MF	20% 25V
R768	1-249-426-11	CARBON 5.6K	5% 1/4W	C2571	1-136-153-00	FILM 0.01MF	5% 50V
R769	1-249-405-11	CARBON 100	5% 1/4W	C2572	1-124-477-11	ELECT 47MF	20% 16V
R771	1-249-423-11	CARBON 3.3K	5% 1/4W F	C2573	1-126-101-11	ELECT 100MF	20% 16V
R772	1-249-391-11	CARBON 6.8	5% 1/4W F	C2574	1-136-153-00	FILM 0.01MF	5% 50V
R773	1-249-396-11	CARBON 18	5% 1/4W	C2575	1-123-356-00	ELECT 10MF	20% 25V
R776	1-249-379-11	CARBON 0.68	5% 1/4W F	C2576	1-123-356-00	ELECT 10MF	20% 25V
		<CONNECTOR>		C2577	1-123-356-00	ELECT 10MF	20% 25V
V1	*1-564-506-11	PLUG, CONNECTOR 3P		C2578	1-123-356-00	ELECT 10MF	20% 25V
V2	*1-564-507-11	PLUG, CONNECTOR 4P		C2579	1-123-356-00	ELECT 10MF	20% 25V
		*****		C2580	1-136-153-00	FILM 0.01MF	5% 50V
	*A-1345-864-A	D2 BOARD, COMPLETE *****		C2581	1-136-153-00	FILM 0.01MF	5% 50V
	*1-564-515-11	PLUG, CONNECTOR 12P		C2582	1-123-356-00	ELECT 10MF	20% 25V
		<DIODE>		D2501	8-719-911-19	DIODE 1SS119	
				D2502	8-719-911-19	DIODE 1SS119	
				D2503	8-719-911-19	DIODE 1SS119	
				D2504	8-719-911-19	DIODE 1SS119	
				D2505	8-719-911-19	DIODE 1SS119	
				D2507	8-719-110-59	DIODE RD22ES-B4	
				D2508	8-719-911-19	DIODE 1SS119	
				D2509	8-719-911-19	DIODE 1SS119	

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
	<IC>			R2547	1-247-881-00	CARBON 120K 5%	1/4W
				R2548	1-249-425-11	CARBON 4.7K 5%	1/4W
				R2549	1-247-840-00	CARBON 2.4K 5%	1/4W
IC2501	8-759-240-53	IC TC4053BP		R2550	1-215-886-11	METAL OXIDE 100 5%	2W F
IC2502	8-759-240-53	IC TC4053BP		R2551	1-249-433-11	CARBON 22K 5%	1/4W
IC2503	8-752-033-68	IC CXA1268P		R2552	1-249-435-11	CARBON 33K 5%	1/4W
IC2504	8-759-945-58	IC RC4558P		R2553	1-249-441-11	CARBON 100K 5%	1/4W
IC2505	8-759-945-58	IC RC4558P		R2554	1-249-434-11	CARBON 27K 5%	1/4W
IC2506	8-759-945-58	IC RC4558P		R2555	1-249-411-11	CARBON 330 5%	1/4W
IC2507	8-759-945-58	IC RC4558P		R2556	1-249-417-11	CARBON 1K 5%	1/4W
IC2508	8-759-945-58	IC RC4558P		R2557	1-249-387-11	CARBON 3.3 5%	1/4W F
IC2509	8-759-942-16	IC TEA2031A		R2558	1-249-387-11	CARBON 3.3 5%	1/4W F
IC2510	8-759-604-35	IC M5F78M05		R2561	1-249-425-11	CARBON 4.7K 5%	1/4W
IC2511	8-759-604-41	IC M5F79M05		R2562	1-247-700-11	CARBON 100 5%	1/4W
IC2512	8-759-982-26	IC RC78L12A		R2563	1-249-405-11	CARBON 100 5%	1/4W
	<TRANSISTOR>			R2564	1-249-441-11	CARBON 100K 5%	1/4W
Q2501	8-729-119-76	TRANSISTOR 2SA1175-HFE		R2570	1-215-862-11	METAL OXIDE 68 5%	1W F
	<RESISTOR>			R2571	1-215-862-11	METAL OXIDE 68 5%	1W F
R2501	1-249-441-11	CARBON 100K 5%	1/4W	R2572	1-249-433-11	CARBON 22K 5%	1/4W
R2502	1-249-429-11	CARBON 10K 5%	1/4W	R2573	1-249-433-11	CARBON 22K 5%	1/4W
R2503	1-249-429-11	CARBON 10K 5%	1/4W	R2574	1-249-429-11	CARBON 10K 5%	1/4W
R2504	1-249-431-11	CARBON 15K 5%	1/4W	R2575	1-249-418-11	CARBON 1.2K 5%	1/4W
R2505	1-249-405-11	CARBON 100 5%	1/4W	R2580	1-247-895-00	CARBON 470K 5%	1/4W
R2506	1-249-427-11	CARBON 6.8K 5%	1/4W	R2581	1-247-903-00	CARBON 1M 5%	1/4W
R2507	1-247-725-11	CARBON 10K 5%	1/4W	R2582	1-249-441-11	CARBON 100K 5%	1/4W
R2508	1-249-429-11	CARBON 10K 5%	1/4W	R2583	1-249-429-11	CARBON 10K 5%	1/4W
R2509	1-249-429-11	CARBON 10K 5%	1/4W	R2584	1-247-883-00	CARBON 150K 5%	1/4W
R2510	1-249-429-11	CARBON 10K 5%	1/4W	R2585	1-247-895-00	CARBON 470K 5%	1/4W
R2511	1-249-429-11	CARBON 10K 5%	1/4W	R2586	1-249-423-11	CARBON 3.3K 5%	1/4W
R2512	1-249-462-11	CARBON 22K 5%	1/4W	R2587	1-249-437-11	CARBON 47K 5%	1/4W
R2513	1-249-433-11	CARBON 22K 5%	1/4W	R2588	1-249-437-11	CARBON 47K 5%	1/4W
R2514	1-249-429-11	CARBON 10K 5%	1/4W	R2589	1-249-429-11	CARBON 10K 5%	1/4W
R2515	1-249-429-11	CARBON 10K 5%	1/4W	R2590	1-249-429-11	CARBON 10K 5%	1/4W
R2516	1-249-429-11	CARBON 10K 5%	1/4W	R2591	1-249-429-11	CARBON 10K 5%	1/4W
R2517	1-249-429-11	CARBON 10K 5%	1/4W		<VARIABLE RESISTOR>		
R2518	1-249-429-11	CARBON 10K 5%	1/4W	RV2500	1-228-994-00	RES, ADJ, CARBON 10K	
R2519	1-249-429-11	CARBON 10K 5%	1/4W	RV2501	1-228-994-00	RES, ADJ, CARBON 10K	
R2520	1-249-433-11	CARBON 22K 5%	1/4W	RV2502	1-228-994-00	RES, ADJ, CARBON 10K	
R2521	1-249-433-11	CARBON 22K 5%	1/4W	RV2503	1-228-994-00	RES, ADJ, CARBON 10K	
R2522	1-249-433-11	CARBON 22K 5%	1/4W	RV2504	1-228-994-00	RES, ADJ, CARBON 10K	
R2523	1-249-468-11	CARBON 82K 5%	1/4W	RV2505	1-228-994-00	RES, ADJ, CARBON 10K	
R2524	1-249-429-11	CARBON 10K 5%	1/4W	RV2506	1-228-994-00	RES, ADJ, CARBON 10K	
R2525	1-249-433-11	CARBON 22K 5%	1/4W	RV2508	1-228-994-00	RES, ADJ, CARBON 10K	
R2526	1-249-437-11	CARBON 47K 5%	1/4W	RV2509	1-228-994-00	RES, ADJ, CARBON 10K	
R2527	1-247-891-00	CARBON 330K 5%	1/4W	RV2510	1-228-994-00	RES, ADJ, CARBON 10K	
R2528	1-249-427-11	CARBON 6.8K 5%	1/4W	RV2511	1-228-994-00	RES, ADJ, CARBON 10K	
R2529	1-247-887-00	CARBON 220K 5%	1/4W	RV2512	1-228-994-00	RES, ADJ, CARBON 10K	
R2531	1-249-429-11	CARBON 10K 5%	1/4W	RV2513	1-228-994-00	RES, ADJ, CARBON 10K	
R2532	1-249-441-11	CARBON 100K 5%	1/4W	RV2514	1-228-994-00	RES, ADJ, CARBON 10K	
R2533	1-249-429-11	CARBON 10K 5%	1/4W	RV2515	1-228-991-00	RES, ADJ, CARBON 2.2K	
R2534	1-249-429-11	CARBON 10K 5%	1/4W	RV2516	1-228-999-00	RES, ADJ, CARBON 470K	
R2535	1-249-423-11	CARBON 3.3K 5%	1/4W	RV2517	1-228-989-00	RES, ADJ, CARBON 470	
R2536	1-247-891-00	CARBON 330K 5%	1/4W	RV2518	1-228-999-00	RES, ADJ, CARBON 470K	
R2540	1-247-700-11	CARBON 100 5%	1/4W F	RV2519	1-228-994-00	RES, ADJ, CARBON 10K	
R2541	1-249-435-11	CARBON 33K 5%	1/4W	RV2520	1-228-996-00	RES, ADJ, CARBON 47K	
R2542	1-249-435-11	CARBON 33K 5%	1/4W		*****		
R2543	1-249-439-11	CARBON 68K 5%	1/4W		*A-1345-925-A	D1 BOARD, COMPLETE	
R2544	1-249-433-11	CARBON 22K 5%	1/4W			*****	
R2545	1-249-417-11	CARBON 1K 5%	1/4W		*1-506-348-99	PIN, CONNECTOR 4P	
R2546	1-249-432-11	CARBON 18K 5%	1/4W		*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	

D1

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
*1-508-766-00		PIN, CONNECTOR (5MM PITCH) 4P		C559	1-130-473-00	MYLAR	0.0015MF 5% 50V
*1-508-768-00		PIN, CONNECTOR (5MM PITCH) 6P		C560	1-125-494-11	ELECT (BLOCK)	560MF 20% 160V
*1-508-784-00		PIN, CONNECTOR (5MM PITCH) 1P		C561	1-126-101-11	ELECT	100MF 20% 16V
*1-564-505-11		PLUG, CONNECTOR 2P		C562	1-126-101-11	ELECT	100MF 20% 16V
*1-564-507-11		PLUG, CONNECTOR 4P		C563	1-106-393-00	MYLAR	0.12MF 10% 200V
*1-564-515-11		PLUG, CONNECTOR 12P		C564	1-108-704-11	MYLAR	0.1MF 10% 200V
*1-568-536-11		PLUG (MINIATURE DY) 6P		C565	1-102-820-00	CERAMIC	330PF 5% 50V
*4-341-751-01		EYELET		C566	1-123-024-21	ELECT	33MF 10% 160V
*4-341-752-01		EYELET		C567	1-108-638-11	MYLAR	0.1MF 10% 100V
<CAPACITOR>				C568 Δ	1-162-134-91	CERAMIC	470PF 10% 2KV
C501	1-130-491-00	MYLAR	0.047MF 5% 50V	C569 Δ	1-162-135-91	CERAMIC	560PF 10% 2KV
C502	1-106-371-00	MYLAR	0.015MF 10% 100V	C571 Δ	1-130-706-11	FILM	0.008MF 3% 1.6KV
C503	1-162-117-00	CERAMIC	100PF 10% 500V	C572 Δ	1-129-747-11	FILM	0.047MF 10% 400V
C504	1-106-220-00	MYLAR	0.1MF 10% 100V	C573	1-129-751-00	FILM	0.1MF 20% 400V
C505	1-123-330-00	ELECT	22MF 20% 16V	C574	1-102-030-00	CERAMIC	330PF 10% 500V
C506	1-106-367-00	MYLAR	0.01MF 10% 100V	C575	1-126-101-11	ELECT	100MF 20% 16V
C507	1-130-480-00	FILM	0.0056MF 5% 50V	C576	1-136-157-00	FILM	0.022MF 5% 50V
C508	1-124-925-11	ELECT	2.2MF 20% 50V	C577	1-124-963-11	ELECT	33MF 20% 16V
C509 Δ	1-124-477-91	ELECT	47MF 20% 25V	C580	1-102-824-00	CERAMIC	470PF 5% 50V
C510	1-124-927-11	ELECT	4.7MF 20% 50V	C581	1-124-902-00	ELECT	0.47MF 20% 50V
C511	1-102-820-00	CERAMIC	330PF 5% 50V	C583	1-126-233-11	ELECT	22MF 20% 50V
C512	1-124-120-11	ELECT	220MF 20% 16V	C584	1-108-692-11	MYLAR	0.01MF 10% 200V
C513	1-124-902-00	ELECT	0.47MF 20% 50V	C585	1-102-038-00	CERAMIC	0.001MF 500V
C514	1-124-902-00	ELECT	0.47MF 20% 50V	C586	1-102-038-00	CERAMIC	0.001MF 500V
C515	1-124-791-11	ELECT	1MF 20% 50V	C587	1-102-038-00	CERAMIC	0.001MF 500V
C516	1-130-479-00	MYLAR	0.0047MF 5% 50V	C588	1-126-105-11	ELECT	1000MF 20% 35V
C517	1-130-479-00	MYLAR	0.0047MF 5% 50V	C589	1-124-557-11	ELECT	1000MF 20% 25V
C518	1-124-902-00	ELECT	0.47MF 20% 50V	C590	1-124-557-11	ELECT	1000MF 20% 25V
C519	1-136-173-00	FILM	0.47MF 5% 50V	C591	1-124-910-11	ELECT	47MF 20% 50V
C520	1-126-103-11	ELECT	470MF 20% 16V	C592	1-124-006-11	ELECT	10MF 20% 25V
C521	1-136-161-00	FILM	0.047MF 5% 50V	C1501	1-102-973-00	CERAMIC	100PF 5% 50V
C522	1-102-121-00	CERAMIC	0.0022MF 10% 50V	C1502	1-102-978-00	CERAMIC	220PF 5% 50V
C523	1-126-233-11	ELECT	22MF 20% 50V	C1503	1-124-046-00	ELECT	10MF 20% 160V
C524	1-126-103-11	ELECT	470MF 20% 16V	C1504	1-102-030-00	CERAMIC	330PF 10% 500V
C525	1-124-480-11	ELECT	470MF 20% 25V	C1505	1-106-381-12	MYLAR	0.039MF 10% 200V
C527	1-124-963-11	ELECT	33MF 20% 16V	C1506	1-123-267-00	ELECT	2.2MF 20% 160V
C528	1-102-231-11	CERAMIC	47PF 10% 500V	C1507	1-108-698-11	MYLAR	0.033MF 10% 200V
C529	1-136-153-00	FILM	0.01MF 5% 50V	C1508	1-124-478-11	ELECT	100MF 20% 25V
C530	1-123-356-00	ELECT	10MF 20% 25V	C1510	1-102-973-00	CERAMIC	100PF 5% 50V
C531	1-136-163-00	FILM	0.068MF 5% 50V	C1511	1-136-161-00	FILM	0.047MF 5% 50V
C532	1-123-932-00	ELECT	4.7MF 20% 160V	C1512	1-124-478-11	ELECT	100MF 20% 25V
C533	1-124-242-00	ELECT	33MF 20% 16V	C1513	1-124-478-11	ELECT	100MF 20% 25V
C534	1-124-465-00	ELECT	0.47MF 20% 50V	C1514	1-123-369-00	ELECT	4.7MF 20% 25V
C540	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C1515	1-106-216-00	MYLAR	0.068MF 10% 100V
C541	1-106-375-12	MYLAR	0.022MF 10% 100V	C1516	1-106-224-00	MYLAR	0.15MF 10% 100V
C542	1-102-978-00	CERAMIC	220PF 5% 50V	C1517	1-124-902-00	ELECT	0.47MF 20% 50V
C543	1-102-157-00	CERAMIC	560PF 10% 500V	C1518	1-106-383-00	MYLAR	0.047MF 10% 100V
C544	1-102-038-00	CERAMIC	0.001MF 500V	C1519	1-136-165-00	FILM	0.1MF 5% 50V
C545	1-108-698-11	MYLAR	0.033MF 10% 200V	C1520	1-136-153-00	FILM	0.01MF 5% 50V
C546	1-102-820-00	CERAMIC	330PF 5% 50V	<DIODE>			
C547	1-162-115-00	CERAMIC	330PF 10% 2KV	D501	8-719-110-39	DIODE RD15ES-B1	
C548	1-129-953-00	FILM	0.068MF 20% 1.5KV	D502	8-719-911-19	DIODE 1SS119	
C549	1-162-115-00	CERAMIC	330PF 10% 2KV	D503 Δ	8-719-109-82	DIODE RD4.7ES-B3	
C550	1-136-086-00	FILM	0.017MF 3% 2KV	D504	8-719-110-39	DIODE RD15ES-B1	
C551	1-129-722-00	FILM	0.047MF 5% 630V	D505	8-719-109-88	DIODE RD5.6ES-B1	
C552	1-108-684-11	MYLAR	0.0022MF 10% 200V	D506	8-719-911-19	DIODE 1SS119	
C553	1-136-597-11	FILM	0.89MF 5% 200V	D507	8-719-110-67	DIODE RD27ES-B2	
C554	1-102-244-00	CERAMIC	220PF 10% 500V	D508 Δ	8-719-302-43	DIODE EL1Z	
C555	1-162-318-11	CERAMIC	0.001MF 10% 500V	D509	8-719-911-19	DIODE 1SS119	
C556	1-136-598-11	FILM	3MF 5% 200V	D510	8-719-200-02	DIODE 10E2	
C557	1-124-927-11	ELECT	4.7MF 20% 50V	D511	8-719-901-19	DIODE V11N	
C558	1-102-116-00	CERAMIC	680PF 10% 50V				

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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.

D1

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
D512	8-719-900-26	DIODE ERD29-08J		L517	1-459-958-11	COIL, CHOKE	
D513	8-719-945-80	DIODE ERC06-15S				<NEON LAMP>	
D514	8-719-900-26	DIODE ERD29-08J		NL501	1-519-108-99	LAMP, NEON	
D515	8-719-945-80	DIODE ERC06-15S				<TRANSISTOR>	
D516	8-719-300-76	DIODE RH-1A		Q501	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D517	8-719-300-76	DIODE RH-1A		Q502	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D518	8-719-979-85	DIODE EGP20G		Q503	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D519	8-719-911-19	DIODE 1SS119		Q504	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D521	8-719-200-02	DIODE 10E2		Q505	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D522	8-719-300-76	DIODE RH-1A		Q506	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D523	8-719-300-76	DIODE RH-1A		Q507	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D525	8-719-109-93	DIODE RD6.2ES-B2		Q508	8-729-203-81	TRANSISTOR 2SC2238B-0	
D526	8-719-911-19	DIODE 1SS119		Q509	8-729-305-01	TRANSISTOR 2SD1941-07	
D527	8-719-110-61	DIODE RD24ES-B1		*4-381-905-01		SPRING (D); Q509	
D528	8-719-979-85	DIODE EGP20G		Q510	8-729-140-96	TRANSISTOR 2SD774-34	
D529	8-719-979-85	DIODE EGP20G		Q511	8-729-140-97	TRANSISTOR 2SB734-34	
D530	8-719-979-85	DIODE EGP20G		Q512	8-729-208-71	TRANSISTOR 2SC3298B-0	
D531	8-719-911-19	DIODE 1SS119		Q513	8-729-378-84	TRANSISTOR 2SD788-5	
D532	8-719-911-19	DIODE 1SS119		Q514	8-729-305-01	TRANSISTOR 2SD1941-07	
D533	8-719-911-19	DIODE 1SS119		*4-381-905-01		SPRING (D); Q514	
D534	8-719-971-20	DIODE ERC38-06		Q515	8-729-302-33	TRANSISTOR 2SC2023-Y	
D535	8-719-971-20	DIODE ERC38-06		*4-381-905-01		SPRING (D); Q515	
D536	8-719-911-55	DIODE U05G		*4-381-907-01		INSULATOR (A); Q515	
D537	8-719-911-19	DIODE 1SS119		Q520	8-729-697-92	TRANSISTOR 2SA979-G	
D538	8-719-911-19	DIODE 1SS119		Q521	8-729-195-82	TRANSISTOR 2SC2958-L	
D539	8-719-300-76	DIODE RH-1A		Q522	8-729-309-08	TRANSISTOR 2SC1890A-E	
D540	8-719-945-81	DIODE ERC06-15SA		Q523	8-729-313-82	TRANSISTOR 2SD1138-C	
D541	8-719-911-55	DIODE U05G		*4-381-905-01		SPRING (D); Q523	
D550	8-719-911-19	DIODE 1SS119		*4-381-907-01		INSULATOR (A); Q523	
D551	8-719-911-19	DIODE 1SS119		Q524	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D552	8-719-911-19	DIODE 1SS119		Q525	8-729-300-80	TRANSISTOR 2SB860	
D1505	8-719-200-02	DIODE 10E2		*4-381-905-01		SPRING (D); Q525	
D1506	8-719-200-02	DIODE 10E2		*4-381-907-01		INSULATOR (A); Q525	
		<FUSE>		Q526	8-729-697-92	TRANSISTOR 2SA979-G	
F501	Δ 1-532-779-21	FUSE, MICRO (SECONDARY) 2A/125V		Q527	8-729-140-96	TRANSISTOR 2SD774-34	
		<IC>		Q528	8-729-140-97	TRANSISTOR 2SB734-34	
IC501	Δ 8-759-100-60	IC UPC1377C		Q529	8-729-306-92	TRANSISTOR 2SD669A-C	
IC502	8-759-982-26	IC RC78L12A		*4-381-905-01		SPRING (D); Q529	
IC503	8-759-345-38	IC HD14538BP		*4-381-907-01		INSULATOR (A); Q529	
IC504	Δ 1-808-839-11	IC PM-16		Q530	8-729-306-92	TRANSISTOR 2SD669A-C	
IC506	8-759-700-42	IC NJM2904D		*4-381-905-01		SPRING (D); Q530	
		<COIL>		*4-381-907-01		INSULATOR (A); Q530	
L501	1-408-159-00	COIL, SPOOK CHOKE 3.3UH		Q531	8-729-195-82	TRANSISTOR 2SC2958-L	
L502	1-459-215-00	CORE COIL				<RESISTOR>	
L503	1-407-365-00	COIL, CHOKE		R501	1-249-411-11	CARBON 330 5%	1/4W
L504	1-407-365-00	COIL, CHOKE		R502	1-249-422-11	CARBON 2.7K 5%	1/4W
L505	1-407-365-00	COIL, CHOKE		R503	1-247-700-11	CARBON 100 5%	1/4W
L506	1-459-104-00	COIL, DUST CORE		R504	1-249-430-11	CARBON 12K 5%	1/4W
L507	1-459-123-00	COIL, DUST CORE (PAC)		R505	1-249-429-11	CARBON 10K 5%	1/4W
L508	1-407-365-00	COIL, CHOKE		R506	1-249-405-11	CARBON 100 5%	1/4W
L509	1-407-365-00	COIL, CHOKE		R507	1-249-429-11	CARBON 10K 5%	1/4W
L510	1-408-159-00	COIL, SPOOK CHOKE 3.3UH		R508	1-249-421-11	CARBON 2.2K 5%	1/4W
L511	1-408-159-00	COIL, SPOOK CHOKE 3.3UH		R509	1-249-425-11	CARBON 4.7K 5%	1/4W
L512	1-408-159-00	COIL, SPOOK CHOKE 3.3UH		R510	1-249-429-11	CARBON 10K 5%	1/4W
L513	1-459-060-00	COIL, DYNAMIC CONVERSION CHOKE		R511	1-247-895-00	CARBON 470K 5%	1/4W
L514	1-443-012-00	TRANSFORMER, DYNAMIC CONVERSION		R512	1-249-435-11	CARBON 33K 5%	1/4W
L515	1-459-060-00	COIL, DYNAMIC CONVERSION CHOKE		R513	1-249-432-11	CARBON 18K 5%	1/4W
L516	1-408-247-00	INDUCTOR 33MMH		R514	1-249-431-11	CARBON 15K 5%	1/4W

D1

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The components identified by
shading and mark Δ are critical
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specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R515	1-249-430-11	CARBON 12K 5%	1/4W	R586	1-249-444-11	CARBON 0.56 5%	1/4W F
R516	1-249-438-11	CARBON 56K 5%	1/4W	R587	1-249-444-11	CARBON 0.56 5%	1/4W F
R517	1-249-424-11	CARBON 3.9K 5%	1/4W	R588	1-249-382-11	CARBON 1.2 5%	1/4W F
R518	1-249-428-11	CARBON 8.2K 5%	1/4W	R589	1-247-700-11	CARBON 100 5%	1/4W F
R519	1-249-435-11	CARBON 33K 5%	1/4W	R590	1-216-424-11	METAL OXIDE 39 5%	1W F
R520	1-249-435-11	CARBON 33K 5%	1/4W	R591	1-249-425-11	CARBON 4.7K 5%	1/4W
R521	1-249-409-11	CARBON 220 5%	1/4W	R592	1-247-717-11	CARBON 2.2K 5%	1/4W F
R522	1-249-421-11	CARBON 2.2K 5%	1/4W	R593	1-247-706-11	CARBON 330 5%	1/4W F
R523	1-247-887-00	CARBON 220K 5%	1/4W	R594	1-249-425-11	CARBON 4.7K 5%	1/4W
R524	1-249-435-11	CARBON 33K 5%	1/4W	R595	1-247-725-11	CARBON 10K 5%	1/4W
R525	1-249-441-11	CARBON 100K 5%	1/4W	R596	1-249-469-11	CARBON 100K 5%	1/4W
R527	1-249-433-11	CARBON 22K 5%	1/4W	R597	1-247-722-11	CARBON 5.6K 5%	1/4W
R528	1-249-433-11	CARBON 22K 5%	1/4W	R598	1-249-441-11	CARBON 100K 5%	1/4W
R529	1-247-881-00	CARBON 120K 5%	1/4W	R599	1-249-417-11	CARBON 1K 5%	1/4W F
R530	1-249-440-11	CARBON 82K 5%	1/4W	R1501	1-249-462-11	CARBON 22K 5%	1/4W
R531	1-247-850-11	CARBON 6.2K 5%	1/4W	R1504	1-249-429-11	CARBON 10K 5%	1/4W
R532	1-249-439-11	CARBON 68K 5%	1/4W	R1505	1-249-429-11	CARBON 10K 5%	1/4W
R533	1-215-448-00	METAL 13K 1%	1/6W	R1506	1-249-426-11	CARBON 5.6K 5%	1/4W
R534 Δ	1-247-879-91	CARBON 100K 5%	1/4W	R1507	1-202-727-00	SOLID 4.7M 10%	1/2W
R536 Δ	1-249-417-91	CARBON 1K 5%	1/4W F	R1508	1-249-439-11	CARBON 68K 5%	1/4W
R537	1-249-435-11	CARBON 33K 5%	1/4W	R1510	1-247-717-11	CARBON 2.2K 5%	1/4W
R538 Δ	1-246-493-75	CARBON 6.8K 5%	1/4W	R1511	1-249-422-11	CARBON 2.7K 5%	1/4W
R539	1-247-701-11	CARBON 120 5%	1/4W F	R1520	1-249-417-11	CARBON 1K 5%	1/4W
R540	1-247-725-11	CARBON 10K 5%	1/4W	R1521	1-249-429-11	CARBON 10K 5%	1/4W
R541	1-249-427-11	CARBON 6.8K 5%	1/4W	R1522	1-247-840-00	CARBON 2.4K 5%	1/4W
R542	1-249-417-11	CARBON 1K 5%	1/4W	R1523	1-249-408-11	CARBON 180 5%	1/4W
R543	1-249-413-11	CARBON 470 5%	1/4W	R1524	1-247-697-11	CARBON 56 5%	1/4W
R544	1-249-429-11	CARBON 10K 5%	1/4W	R1525	1-247-840-00	CARBON 2.4K 5%	1/4W
R545	1-249-429-11	CARBON 10K 5%	1/4W	R1526	1-249-405-11	CARBON 100 5%	1/4W F
R546	1-247-704-11	CARBON 220 5%	1/4W	R1527	1-247-725-11	CARBON 10K 5%	1/4W
R547	1-249-417-11	CARBON 1K 5%	1/4W	R1528	1-249-448-11	CARBON 1.2 5%	1/4W F
R548	1-249-428-11	CARBON 8.2K 5%	1/4W	R1529	1-249-448-11	CARBON 1.2 5%	1/4W F
R549	1-247-700-11	CARBON 100 5%	1/4W F	R1530	1-215-866-11	METAL OXIDE 330 5%	1W F
R550	1-249-435-11	CARBON 33K 5%	1/4W	R1531	1-216-351-00	METAL OXIDE 1.5 5%	1W F
R551	1-249-439-11	CARBON 68K 5%	1/4W	R1532	1-249-448-11	CARBON 1.2 5%	1/4W F
R552	1-249-431-11	CARBON 15K 5%	1/4W	R1533	1-249-430-11	CARBON 12K 5%	1/4W
R553	1-249-411-11	CARBON 330 5%	1/4W	R1540	1-249-417-11	CARBON 1K 5%	1/4W
R554	1-247-895-00	CARBON 470K 5%	1/4W	R1541	1-249-429-11	CARBON 10K 5%	1/4W
R560	1-249-405-11	CARBON 100 5%	1/4W	R1542	1-249-417-11	CARBON 1K 5%	1/4W
R561	1-249-417-11	CARBON 1K 5%	1/4W F	R1543	1-249-425-11	CARBON 4.7K 5%	1/4W
R562	1-247-721-11	CARBON 4.7K 5%	1/4W	R1544	1-249-409-11	CARBON 220 5%	1/4W
R563	1-216-388-11	METAL OXIDE 0.82 5%	3W F	R1545	1-249-421-11	CARBON 2.2K 5%	1/4W
R564	1-247-697-11	CARBON 56 5%	1/4W	R1546	1-249-417-11	CARBON 1K 5%	1/4W
R565	1-249-385-11	CARBON 2.2 5%	1/4W F	R1547	1-249-452-11	CARBON 2.7 5%	1/4W F
R566	1-216-482-11	METAL OXIDE 1.8K 5%	3W F	R1548	1-249-452-11	CARBON 2.7 5%	1/4W F
R567	1-215-918-00	METAL OXIDE 1.5K 5%	3W F	R1549	1-215-864-00	METAL OXIDE 150 5%	1W F
R568	1-216-482-11	METAL OXIDE 1.8K 5%	3W F	R1550	1-249-429-11	CARBON 10K 5%	1/4W
R569	1-215-918-00	METAL OXIDE 1.5K 5%	3W F	R1551	1-216-351-00	METAL OXIDE 1.5 5%	1W F
R570	1-249-448-11	CARBON 1.2 5%	1/4W F	R1555	1-249-448-11	CARBON 1.2 5%	1/4W F
R571	1-249-448-11	CARBON 1.2 5%	1/4W F	R1558	1-216-350-11	METAL OXIDE 1.2 5%	1W F
R572	1-249-385-11	CARBON 2.2 5%	1/4W F	R1559	1-249-417-11	CARBON 1K 5%	1/4W
R573	1-249-385-11	CARBON 2.2 5%	1/4W F	R1560	1-247-694-11	CARBON 33 5%	1/4W F
R574	1-215-880-00	METAL OXIDE 10 5%	2W F	R1561	1-249-411-11	CARBON 330 5%	1/4W
R575	1-215-868-00	METAL OXIDE 680 5%	1W F	R1570	1-249-430-11	CARBON 12K 5%	1/4W
R576	1-216-424-11	METAL OXIDE 39 5%	1W F	R1571	1-249-417-11	CARBON 1K 5%	1/4W
R577	1-246-545-00	CARBON 1M 5%	1/4W	R1572	1-249-423-11	CARBON 3.3K 5%	1/4W
R578	1-216-434-11	METAL OXIDE 1.8K 5%	1W F	R1573	1-249-411-11	CARBON 330 5%	1/4W
R579	1-215-919-11	METAL OXIDE 2.2K 5%	3W F	R1574	1-249-417-11	CARBON 1K 5%	1/4W
R580	1-249-411-11	CARBON 330 5%	1/4W F				
R581	1-249-429-11	CARBON 10K 5%	1/4W				
R582	1-216-374-00	METAL OXIDE 2.7 5%	2W F				
R583	1-247-697-11	CARBON 56 5%	1/4W				
R584	1-249-448-11	CARBON 1.2 5%	1/4W F				
R585	1-249-448-11	CARBON 1.2 5%	1/4W F				
						<VARIABLE RESISTOR>	
				RV501	1-228-993-00	RES. ADJ. CARBON 4.7K	
				RV502	1-228-990-00	RES. ADJ. CARBON 1K	

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.

D1 **H4** **U**

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
RV503	1-228-990-00	RES, ADJ, CARBON 1K		C2325	1-124-589-11	ELECT 47MF	20% 16V
		<SPARK GAP>		C2326	1-126-157-11	ELECT 10MF	20% 16V
SG501	1-519-063-99	DISCHARGING GAP		C2327	1-101-004-00	CERAMIC 0.01MF	50V
		<TRANSFORMER>		C2328	1-124-589-11	ELECT 47MF	20% 16V
T501	1-437-089-00	TRANSFORMER, HORIZONTAL DRIVE		C2329	1-101-004-00	CERAMIC 0.01MF	50V
T502	1-437-089-00	TRANSFORMER, HORIZONTAL DRIVE		C2330	1-124-120-11	ELECT 220MF	20% 16V
T503	1-439-356-11	HOT		C2331	1-126-157-11	ELECT 10MF	20% 16V
T504	1-421-794-11	TRANSFORMER, FERRITE (PMT)		C2332	1-124-589-11	ELECT 47MF	20% 16V
T505	1-459-817-11	TRANSFORMER		C2333	1-126-157-11	ELECT 10MF	20% 16V
T506	1-407-849-00	TRANSFORMER, D.F		C2334	1-124-589-11	ELECT 47MF	20% 16V
T507 Δ	1-439-469-11	TRANSFORMER, LINE OUTPUT		C2335	1-124-589-11	ELECT 47MF	20% 16V
*****				C2336	1-101-004-00	CERAMIC 0.01MF	50V
*1-633-446-11	H4 BOARD			C2337	1-124-589-11	ELECT 47MF	20% 16V
	*****			C2338	1-101-004-00	CERAMIC 0.01MF	50V
*1-564-520-11	PLUG, CONNECTOR 5P			C2339	1-124-589-11	ELECT 47MF	20% 16V
		<SWITCH>		C2340	1-136-161-00	FILM 0.047MF	5% 50V
S931	1-570-145-11	SWITCH, SLIDE		C2341	1-124-257-00	ELECT 2.2MF	20% 50V
S933	1-570-145-11	SWITCH, SLIDE		C2342	1-124-438-00	ELECT 1MF	20% 50V
*****				C2343	1-102-971-00	CERAMIC 82PF	5% 50V
*A-1373-224-A	U BOARD, COMPLETE			C2344	1-124-438-00	ELECT 1MF	20% 50V
	*****			C2345	1-136-157-00	MYLAR 0.022MF	10% 50V
1-537-283-11	TERMINAL BOARD, INPUT/OUTPUT			C2346	1-102-973-00	CERAMIC 100PF	5% 50V
1-537-284-11	TERMINAL BOARD, INPUT/OUTPUT			C2347	1-124-438-00	ELECT 1MF	20% 50V
1-537-285-11	TERMINAL BOARD, INPUT/OUTPUT			C2348	1-136-165-00	MYLAR 0.1MF	10% 50V
*4-341-751-01	EYELET (EY7,EY8)			C2349	1-124-589-11	ELECT 47MF	20% 16V
*4-341-752-01	EYELET (EY1,EY2,EY3,EY4,EY5,EY6,EY9, EY10,EY11,EY12,EY13)			C2350	1-124-589-11	ELECT 47MF	20% 16V
		<CAPACITOR>		C2351	1-101-004-00	CERAMIC 0.01MF	50V
C2301	1-136-165-00	FILM 0.1MF	5% 50V	C2352	1-124-589-11	ELECT 47MF	20% 16V
C2302	1-124-589-11	ELECT 47MF	20% 16V	C2353	1-101-004-00	CERAMIC 0.01MF	50V
C2303	1-124-589-11	ELECT 47MF	20% 16V	C2354	1-124-589-11	ELECT 47MF	20% 16V
C2304	1-126-157-11	ELECT 10MF	20% 16V	C2355	1-124-589-11	ELECT 47MF	20% 16V
C2305	1-126-157-11	ELECT 10MF	20% 16V	C2356	1-106-351-00	MYLAR 0.0022MF	10% 100V
C2306	1-136-165-00	FILM 0.1MF	-5% 50V	C2401	1-102-959-00	CERAMIC 22PF	5% 50V
C2307	1-124-589-11	ELECT 47MF	20% 16V	C2402	1-102-965-00	CERAMIC 39PF	5% 50V
C2308	1-124-589-11	ELECT 47MF	20% 16V	C2403	1-102-965-00	CERAMIC 39PF	5% 50V
C2309	1-136-165-00	FILM 0.1MF	5% 50V	C2404	1-102-965-00	CERAMIC 39PF	5% 50V
C2310	1-124-589-11	ELECT 47MF	20% 16V	C2405	1-101-880-00	CERAMIC 47PF	5% 50V
C2311	1-124-589-11	ELECT 47MF	20% 16V	C2406	1-101-880-00	CERAMIC 47PF	5% 50V
C2312	1-126-157-11	ELECT 10MF	20% 16V	C2407	1-101-880-00	CERAMIC 47PF	5% 50V
C2313	1-126-157-11	ELECT 10MF	20% 16V	C2408	1-102-820-00	CERAMIC 330PF	5% 50V
C2314	1-136-165-00	FILM 0.1MF	5% 50V	C2409	1-126-176-11	ELECT 220MF	20% 10V
C2315	1-124-589-11	ELECT 47MF	20% 16V	C2410	1-126-094-11	ELECT 4.7MF	20% 25V
C2316	1-124-589-11	ELECT 47MF	20% 16V	C2411	1-101-004-00	CERAMIC 0.01MF	50V
C2317	1-126-157-11	ELECT 10MF	20% 16V	C2422	1-124-589-11	ELECT 47MF	20% 16V
C2318	1-124-589-11	ELECT 47MF	20% 16V	C2423	1-101-004-00	CERAMIC 0.01MF	50V
C2319	1-124-589-11	ELECT 47MF	20% 16V	C2424	1-126-176-11	ELECT 220MF	20% 10V
C2320	1-124-589-11	ELECT 47MF	20% 16V	C2425	1-126-157-11	ELECT 10MF	20% 16V
C2321	1-124-589-11	ELECT 47MF	20% 16V	C2426	1-124-589-11	ELECT 47MF	20% 16V
C2322	1-124-589-11	ELECT 47MF	20% 16V	C2491	1-124-478-11	ELECT 100MF	20% 25V
C2323	1-126-157-11	ELECT 10MF	20% 16V	C2492	1-124-120-11	ELECT 220MF	20% 16V
C2324	1-126-157-11	ELECT 10MF	20% 16V	C2493	1-101-004-00	CERAMIC 0.01MF	50V
				C2494	1-126-101-11	ELECT 100MF	20% 16V
				C2495	1-126-101-11	ELECT 100MF	20% 16V
				C2496	1-101-006-00	CERAMIC 0.047MF	50V
				<DIODE>			
				D2401	8-719-109-93	DIODE RD6.2ES-B2	
				D2402	8-719-911-19	DIODE 1SS119	
				D2403	8-719-911-19	DIODE 1SS119	
				D2404	8-719-911-19	DIODE 1SS119	
				D2405	8-719-911-19	DIODE 1SS119	
				D2406	8-719-110-03	DIODE RD7.5ES-B2	



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
D2407	8-719-110-03	DIODE RD7.5ES-B2		Q2413	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D2408	8-719-110-03	DIODE RD7.5ES-B2		Q2414	8-729-119-78	TRANSISTOR 2SC2785-HFE	
		<IC>		Q2415	8-729-119-78	TRANSISTOR 2SC2785-HFE	
IC2301	8-759-710-41	IC NJM2245D		Q2416	8-729-900-36	TRANSISTOR DTC124ES	
IC2302	8-759-710-41	IC NJM2245D		Q2417	8-729-900-36	TRANSISTOR DTC124ES	
IC2303	8-759-710-41	IC NJM2245D					
IC2304	8-759-140-53	IC UPD4053BC		Q2418	8-729-119-78	TRANSISTOR 2SC2785-HFE	
IC2305	8-759-140-53	IC UPD4053BC				<RESISTOR>	
IC2306	8-759-102-37	IC UPD4052BC		R2301	1-247-104-00	CARBON 75 5%	1/4W
IC2307	8-759-102-37	IC UPD4052BC		R2302	1-247-104-00	CARBON 75 5%	1/4W
IC2311	8-759-604-39	IC M5F78M12		R2303	1-247-104-00	CARBON 75 5%	1/4W
	*4-363-146-00	HEAT SINK, V.OUT; IC2311		R2304	1-247-713-11	CARBON 1K 5%	1/4W
	4-382-854-01	SCREW (3X8), P, SW (+); IC2311		R2305	1-247-713-11	CARBON 1K 5%	1/4W
IC2312	8-759-604-29	IC M5F7805		R2306	1-247-713-11	CARBON 1K 5%	1/4W
IC2401	8-759-900-09	IC SN74LS09N		R2307	1-247-104-00	CARBON 75 5%	1/4W
IC2402	8-759-005-65	IC SN74LS138N		R2308	1-247-104-00	CARBON 75 5%	1/4W
IC2403	8-759-005-63	IC SN74LS136N		R2309	1-247-104-00	CARBON 75 5%	1/4W
		<COIL>		R2310	1-247-713-11	CARBON 1K 5%	1/4W
L2301	1-236-728-11	ENCAPSULATED COMPONENT		R2311	1-247-713-11	CARBON 1K 5%	1/4W
L2302	1-236-728-11	ENCAPSULATED COMPONENT		R2312	1-247-713-11	CARBON 1K 5%	1/4W
L2303	1-236-728-11	ENCAPSULATED COMPONENT		R2313	1-247-104-00	CARBON 75 5%	1/4W
L2304	1-236-728-11	ENCAPSULATED COMPONENT		R2314	1-249-417-11	CARBON 1K 5%	1/4W
		<TRANSISTOR>		R2315	1-247-104-00	CARBON 75 5%	1/4W
Q2301	8-729-119-78	TRANSISTOR 2SC2785-HFE		R2316	1-247-104-00	CARBON 75 5%	1/4W
Q2302	8-729-119-78	TRANSISTOR 2SC2785-HFE		R2317	1-247-104-00	CARBON 75 5%	1/4W
Q2303	8-729-119-76	TRANSISTOR 2SA1175-HFE		R2318	1-247-104-00	CARBON 75 5%	1/4W
Q2304	8-729-119-78	TRANSISTOR 2SC2785-HFE		R2319	1-247-713-11	CARBON 1K 5%	1/4W
Q2305	8-729-119-76	TRANSISTOR 2SA1175-HFE		R2320	1-249-440-11	CARBON 82K 5%	1/4W
Q2306	8-729-119-76	TRANSISTOR 2SA1175-HFE		R2321	1-249-434-11	CARBON 27K 5%	1/4W
Q2307	8-729-119-76	TRANSISTOR 2SA1175-HFE		R2322	1-249-428-11	CARBON 8.2K 5%	1/4W
Q2308	8-729-119-78	TRANSISTOR 2SC2785-HFE		R2323	1-247-700-11	CARBON 100 5%	1/4W
Q2309	8-729-119-78	TRANSISTOR 2SC2785-HFE		R2324	1-247-700-11	CARBON 100 5%	1/4W
Q2310	8-729-119-76	TRANSISTOR 2SA1175-HFE		R2325	1-247-700-11	CARBON 100 5%	1/4W
Q2311	8-729-119-78	TRANSISTOR 2SC2785-HFE		R2326	1-247-725-11	CARBON 10K 5%	1/4W
Q2312	8-729-119-78	TRANSISTOR 2SC2785-HFE		R2327	1-247-713-11	CARBON 1K 5%	1/4W
Q2313	8-729-119-76	TRANSISTOR 2SA1175-HFE		R2328	1-247-725-11	CARBON 10K 5%	1/4W
Q2314	8-729-119-76	TRANSISTOR 2SA1175-HFE		R2329	1-247-713-11	CARBON 1K 5%	1/4W
Q2315	8-729-119-76	TRANSISTOR 2SA1175-HFE		R2330	1-249-426-11	CARBON 5.6K 5%	1/4W
Q2316	8-729-119-76	TRANSISTOR 2SA1175-HFE		R2331	1-249-436-11	CARBON 39K 5%	1/4W
Q2321	8-729-119-76	TRANSISTOR 2SA1175-HFE		R2332	1-249-436-11	CARBON 39K 5%	1/4W
Q2323	8-729-119-78	TRANSISTOR 2SC2785-HFE		R2333	1-249-436-11	CARBON 39K 5%	1/4W
Q2324	8-729-119-78	TRANSISTOR 2SC2785-HFE		R2334	1-249-436-11	CARBON 39K 5%	1/4W
Q2325	8-729-119-78	TRANSISTOR 2SC2785-HFE		R2335	1-249-436-11	CARBON 39K 5%	1/4W
Q2326	8-729-119-78	TRANSISTOR 2SC2785-HFE		R2336	1-249-436-11	CARBON 39K 5%	1/4W
Q2327	8-729-900-36	TRANSISTOR DTC124ES		R2337	1-249-417-11	CARBON 1K 5%	1/4W
Q2328	8-729-119-78	TRANSISTOR 2SC2785-HFE		R2338	1-247-708-11	CARBON 470 5%	1/4W
Q2329	8-729-900-36	TRANSISTOR DTC124ES		R2339	1-249-413-11	CARBON 470 5%	1/4W
Q2401	8-729-119-78	TRANSISTOR 2SC2785-HFE		R2340	1-249-417-11	CARBON 1K 5%	1/4W
Q2402	8-729-119-78	TRANSISTOR 2SC2785-HFE		R2341	1-249-413-11	CARBON 470 5%	1/4W
Q2403	8-729-119-78	TRANSISTOR 2SC2785-HFE		R2342	1-249-413-11	CARBON 470 5%	1/4W
Q2404	8-729-119-78	TRANSISTOR 2SC2785-HFE		R2343	1-249-417-11	CARBON 1K 5%	1/4W
Q2405	8-729-119-78	TRANSISTOR 2SC2785-HFE		R2344	1-249-399-11	CARBON 33 5%	1/4W
Q2406	8-729-119-78	TRANSISTOR 2SC2785-HFE		R2345	1-249-399-11	CARBON 33 5%	1/4W
Q2407	8-729-119-78	TRANSISTOR 2SC2785-HFE		R2346	1-249-399-11	CARBON 33 5%	1/4W
Q2408	8-729-119-78	TRANSISTOR 2SC2785-HFE		R2347	1-249-417-11	CARBON 1K 5%	1/4W
Q2409	8-729-119-78	TRANSISTOR 2SC2785-HFE		R2348	1-249-417-11	CARBON 1K 5%	1/4W
Q2411	8-729-119-78	TRANSISTOR 2SC2785-HFE		R2351	1-249-417-11	CARBON 1K 5%	1/4W
Q2412	8-729-900-36	TRANSISTOR DTC124ES		R2352	1-249-411-11	CARBON 330 5%	1/4W
				R2353	1-249-423-11	CARBON 3.3K 5%	1/4W
				R2354	1-249-417-11	CARBON 1K 5%	1/4W
				R2355	1-249-432-11	CARBON 18K 5%	1/4W
				R2356	1-249-424-11	CARBON 3.9K 5%	1/4W
				R2357	1-249-429-11	CARBON 10K 5%	1/4W

H3 K

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
		<IC>					
1C981	8-759-933-23	IC BA236		C228	1-123-379-00	ELECT 0.47MF	20% 50V
		<COIL>		C229	1-123-379-00	ELECT 0.47MF	20% 50V
L981	1-408-424-00	INDUCTOR 180UH		C230	1-162-283-31	CERAMIC 120PF	10% 50V
		<RESISTOR>		C231	1-162-283-31	CERAMIC 120PF	10% 50V
R981	1-249-405-11	CARBON 100 5% 1/4W		C232	1-124-963-11	ELECT 33MF	20% 16V
R982	1-249-432-11	CARBON 18K 5% 1/4W		C233	1-124-477-11	ELECT 47MF	20% 16V
R983	1-249-408-11	CARBON 180 5% 1/4W		C234	1-108-814-11	MYLAR 0.068MF	5% 50V
R984	1-249-427-11	CARBON 6.8K 5% 1/4W		C235	1-108-816-11	MYLAR 0.1MF	5% 50V
R985	1-249-420-11	CARBON 1.8K 5% 1/4W		C236	1-124-471-00	ELECT 1000MF	20% 6.3V
R986	1-249-417-11	CARBON 1K 5% 1/4W		C237	1-102-074-00	CERAMIC 0.001MF	10% 50V
R987	1-249-418-11	CARBON 1.2K 5% 1/4W		C238	1-102-074-00	CERAMIC 0.001MF	10% 50V
R988	1-249-405-11	CARBON 100 5% 1/4W		C239	1-101-006-00	CERAMIC 0.047MF	50V
		<VARIABLE RESISTOR>		C240	1-101-006-00	CERAMIC 0.047MF	50V
RV936	1-237-349-11	RES. VAR. CARBON 10K		C241	1-101-006-00	CERAMIC 0.047MF	50V
RV981	1-237-348-11	RES. VAR. CARBON 5K		C242	1-125-296-00	ELECT (BLOCK) 4700MF	35V
RV982	1-228-725-00	RES. ADJ. CERAMIC CARBON 22K		C243	1-125-296-00	ELECT (BLOCK) 4700MF	35V
		<SWITCH>		C244	1-124-477-11	ELECT 47MF	20% 16V
S936	1-570-758-11	SWITCH, ROTARY		C245	1-102-074-00	CERAMIC 0.001MF	10% 50V
S937	1-570-758-11	SWITCH, ROTARY		C246	1-123-356-00	ELECT 10MF	20% 16V
*****				C251	1-123-356-00	ELECT 10MF	20% 16V
*A-1380-246-A	K BOARD, COMPLETE	*****		C252	1-101-004-00	CERAMIC 0.01MF	50V
4-309-378-00	WASHER			C253	1-124-963-11	ELECT 33MF	20% 16V
		<CAPACITOR>		C254	1-101-004-00	CERAMIC 0.01MF	50V
C201	1-124-925-11	ELECT 2.2MF 20% 50V		C255	1-123-356-00	ELECT 10MF	20% 16V
C202	1-124-925-11	ELECT 2.2MF 20% 50V				<DIODE>	
C203	1-124-477-11	ELECT 47MF 20% 16V		D201	8-719-109-93	DIODE RD6.2ES-B2	
C204	1-124-477-11	ELECT 47MF 20% 16V		D202	8-719-911-19	DIODE 1S5119	
C205	1-130-496-00	MYLAR 0.12MF 5% 50V		D203	8-719-110-36	DIODE RD13ES-B2	
C206	1-102-125-00	CERAMIC 0.0047MF 10% 50V		D204	8-719-110-36	DIODE RD13ES-B2	
C207	1-102-125-00	CERAMIC 0.0047MF 10% 50V				<IC>	
C208	1-130-496-00	MYLAR 0.12MF 5% 50V		IC201	8-759-276-30	IC TA7630P	
C209	1-123-369-00	ELECT 4.7MF 20% 25V		IC203	8-759-140-66	IC UPD4066BC	
C210	1-123-369-00	ELECT 4.7MF 20% 25V		IC204	8-759-111-88	IC UPC1188H	
C211	1-123-369-00	ELECT 4.7MF 20% 25V		IC205	8-759-111-88	IC UPC1188H	
C212	1-123-369-00	ELECT 4.7MF 20% 25V				<CONNECTOR>	
C213	1-124-120-11	ELECT 220MF 20% 16V		K1	*1-564-510-11	PLUG, CONNECTOR 7P	
C214	1-124-791-11	ELECT 1MF 20% 50V		K2	*1-508-767-00	PIN, CONNECTOR (5MM PITCH) 5P	
C215	1-124-791-11	ELECT 1MF 20% 50V		K3	*1-564-507-11	PLUG, CONNECTOR 4P	
C216	1-123-379-00	ELECT 0.47MF 20% 50V		K4	*1-564-505-11	PLUG, CONNECTOR 2P	
C217	1-123-379-00	ELECT 0.47MF 20% 50V		K5	*1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P	
C218	1-124-360-00	ELECT 1000MF 20% 16V		K6	*1-564-507-11	PLUG, CONNECTOR 4P	
C219	1-126-101-11	ELECT 100MF 20% 16V		K7	*1-564-505-11	PLUG, CONNECTOR 2P	
C220	1-123-379-00	ELECT 0.47MF 20% 50V				<COIL>	
C221	1-123-379-00	ELECT 0.47MF 20% 50V		L201	1-408-424-00	INDUCTOR 180UH	
C222	1-162-283-31	CERAMIC 120PF 10% 50V				<TRANSISTOR>	
C223	1-162-283-31	CERAMIC 120PF 10% 50V		Q201	8-729-178-55	TRANSISTOR 2SC2785-E	
C224	1-124-963-11	ELECT 33MF 20% 16V		Q202	8-729-178-55	TRANSISTOR 2SC2785-E	
C225	1-124-477-11	ELECT 47MF 20% 16V		Q203	8-729-178-55	TRANSISTOR 2SC2785-E	
C226	1-108-814-11	MYLAR 0.068MF 5% 50V		Q204	8-729-178-55	TRANSISTOR 2SC2785-E	
C227	1-108-816-11	MYLAR 0.1MF 5% 50V		Q205	8-729-178-55	TRANSISTOR 2SC2785-E	
				Q206	8-729-119-76	TRANSISTOR 2SA1175-HFE	
				Q207	8-729-900-36	TRANSISTOR DTC124ES	
				Q208	8-729-900-36	TRANSISTOR DTC124ES	
				Q209	8-729-119-76	TRANSISTOR 2SA1175-HFE	

K KEY BOARD UNIT (A)

REF. NO.	PART NO.	DESCRIPTION	REMARK
Q211	8-729-140-96	TRANSISTOR 2SD774-34	
Q212	8-729-178-55	TRANSISTOR 2SC2785-E	
Q213	8-729-178-55	TRANSISTOR 2SC2785-E	
Q214	8-729-178-55	TRANSISTOR 2SC2785-E	
Q215	8-729-178-55	TRANSISTOR 2SC2785-E	
Q216	8-729-178-55	TRANSISTOR 2SC2785-E	
<RESISTOR>			
R201	1-249-441-11	CARBON 100K 5%	1/4W
R202	1-249-441-11	CARBON 100K 5%	1/4W
R203	1-249-419-11	CARBON 1.5K 5%	1/4W
R204	1-249-429-11	CARBON 10K 5%	1/4W
R205	1-249-433-11	CARBON 22K 5%	1/4W
R206	1-249-433-11	CARBON 22K 5%	1/4W
R207	1-249-419-11	CARBON 1.5K 5%	1/4W
R208	1-249-420-11	CARBON 1.8K 5%	1/4W
R209	1-249-432-11	CARBON 18K 5%	1/4W
R210	1-249-433-11	CARBON 22K 5%	1/4W
R211	1-249-417-11	CARBON 1K 5%	1/4W
R213	1-249-432-11	CARBON 18K 5%	1/4W
R214	1-249-433-11	CARBON 22K 5%	1/4W
R215	1-249-432-11	CARBON 18K 5%	1/4W
R216	1-249-433-11	CARBON 22K 5%	1/4W
R217	1-249-425-11	CARBON 4.7K 5%	1/4W
R218	1-249-437-11	CARBON 47K 5%	1/4W
R219	1-249-425-11	CARBON 4.7K 5%	1/4W
R220	1-249-437-11	CARBON 47K 5%	1/4W
R221	1-249-403-11	CARBON 68 5%	1/4W F
R222	1-249-429-11	CARBON 10K 5%	1/4W
R223	1-249-432-11	CARBON 18K 5%	1/4W
R224	1-249-437-11	CARBON 47K 5%	1/4W
R225	1-249-409-11	CARBON 220 5%	1/4W
R226	1-249-433-11	CARBON 22K 5%	1/4W
R227	1-249-430-11	CARBON 12K 5%	1/4W
R228	1-249-390-11	CARBON 5.6 5%	1/4W F
R229	1-249-429-11	CARBON 10K 5%	1/4W
R230	1-249-432-11	CARBON 18K 5%	1/4W
R231	1-249-437-11	CARBON 47K 5%	1/4W
R232	1-249-409-11	CARBON 220 5%	1/4W
R233	1-249-433-11	CARBON 22K 5%	1/4W
R234	1-249-430-11	CARBON 12K 5%	1/4W
R235	1-249-390-11	CARBON 5.6 5%	1/4W F
R236	1-249-429-11	CARBON 10K 5%	1/4W
R237	1-249-429-11	CARBON 10K 5%	1/4W
R238	1-249-423-11	CARBON 3.3K 5%	1/4W
R239	1-249-437-11	CARBON 47K 5%	1/4W
R240	1-249-430-11	CARBON 12K 5%	1/4W
R241	1-249-441-11	CARBON 100K 5%	1/4W
R242	1-249-429-11	CARBON 10K 5%	1/4W
R243	1-249-417-11	CARBON 1K 5%	1/4W
R244	1-249-417-11	CARBON 1K 5%	1/4W
R245	1-249-417-11	CARBON 1K 5%	1/4W
R246	1-249-417-11	CARBON 1K 5%	1/4W
R247	1-249-405-11	CARBON 100 5%	1/4W
R248	1-249-429-11	CARBON 10K 5%	1/4W
R249	1-249-429-11	CARBON 10K 5%	1/4W
R250	1-249-425-11	CARBON 4.7K 5%	1/4W
R251	1-249-429-11	CARBON 10K 5%	1/4W
R252	1-249-419-11	CARBON 1.5K 5%	1/4W
R254	1-249-441-11	CARBON 100K 5%	1/4W
R255	1-249-441-11	CARBON 100K 5%	1/4W
R257	1-249-423-11	CARBON 3.3K 5%	1/4W
R259	1-247-874-11	CARBON 62K 5%	1/4W

REF. NO.	PART NO.	DESCRIPTION	REMARK
R261	1-247-874-11	CARBON 62K 5%	1/4W
R262	1-249-422-11	CARBON 2.7K 5%	1/4W
R263	1-249-422-11	CARBON 2.7K 5%	1/4W
R264	1-249-449-11	CARBON 1.5 5%	1/4W
R265	1-247-874-11	CARBON 62K 5%	1/4W
R266	1-249-416-11	CARBON 820 5%	1/4W
R267	1-249-429-11	CARBON 10K 5%	1/4W
R268	1-249-429-11	CARBON 10K 5%	1/4W

	1-466-225-11	KEY BOARD UNIT (A)	*****
<DIODE>			
D901	9-990-893-01	LED TLY263P	
D902	9-990-893-01	LED TLY263P	
D903	9-990-893-01	LED TLY263P	
D904	9-990-893-01	LED TLY263P	
D905	9-990-893-01	LED TLY263P	
D906	9-990-893-01	LED TLY263P	
D907	9-990-893-01	LED TLY263P	
D908	9-990-893-01	LED TLY263P	
D909	9-990-893-01	LED TLY263P	
D910	9-990-893-01	LED TLY263P	
D911	9-990-893-01	LED TLY263P	
D912	9-990-893-01	LED TLY263P	
D913	9-990-893-01	LED TLY263P	
D914	9-990-893-01	LED TLY263P	
D915	9-990-893-01	LED TLY263P	
D916	9-990-893-01	LED TLY263P	
D917	9-990-893-01	LED TLY263P	
D918	9-990-893-01	LED TLY263P	
D919	9-990-893-01	LED TLY263P	
D920	9-990-893-01	LED TLY263P	
D921	9-990-893-01	LED TLY263P	
D922	9-990-893-01	LED TLY263P	
D923	9-990-893-01	LED TLY263P	
D924	9-990-893-01	LED TLY263P	
D925	9-990-893-01	LED TLY263P	
D926	9-990-893-01	LED TLY263P	
D927	9-990-893-01	LED TLY263P	
D928	9-990-893-01	LED TLY263P	
D929	9-990-893-01	LED TLY263P	
<RESISTOR>			
R901	1-247-707-11	CARBON 390 5%	1/4W F
R902	1-247-707-11	CARBON 390 5%	1/4W F
R903	1-247-707-11	CARBON 390 5%	1/4W F
R904	1-247-707-11	CARBON 390 5%	1/4W F
R905	1-247-707-11	CARBON 390 5%	1/4W F
R906	1-247-707-11	CARBON 390 5%	1/4W F
R907	1-247-707-11	CARBON 390 5%	1/4W F
R908	1-247-707-11	CARBON 390 5%	1/4W F
R909	1-247-707-11	CARBON 390 5%	1/4W F
R910	1-247-707-11	CARBON 390 5%	1/4W F
R911	1-247-707-11	CARBON 390 5%	1/4W F
R912	1-247-710-11	CARBON 560 5%	1/4W F
R913	1-247-707-11	CARBON 390 5%	1/4W F
R914	1-247-707-11	CARBON 390 5%	1/4W F
R915	1-247-707-11	CARBON 390 5%	1/4W F

KEY BOARD UNIT (A)

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.

KEY BOARD UNIT (B)

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<SWITCH>							
S901	1-554-303-21	MT SWITCH (KEY BOARD SWITCH)		S951	1-554-303-21	MT SWITCH (KEY BOARD SWITCH)	
S902	1-554-303-21	MT SWITCH (KEY BOARD SWITCH)		S952	1-554-303-21	MT SWITCH (KEY BOARD SWITCH)	
S903	1-554-303-21	MT SWITCH (KEY BOARD SWITCH)		S953	1-554-303-21	MT SWITCH (KEY BOARD SWITCH)	
S904	1-554-303-21	MT SWITCH (KEY BOARD SWITCH)		S954	1-554-303-21	MT SWITCH (KEY BOARD SWITCH)	
S905	1-554-303-21	MT SWITCH (KEY BOARD SWITCH)		S955	1-554-303-21	MT SWITCH (KEY BOARD SWITCH)	
S906	1-554-303-21	MT SWITCH (KEY BOARD SWITCH)		S956	1-554-303-21	MT SWITCH (KEY BOARD SWITCH)	
S907	1-554-303-21	MT SWITCH (KEY BOARD SWITCH)		S957	1-554-303-21	MT SWITCH (KEY BOARD SWITCH)	
S908	1-554-303-21	MT SWITCH (KEY BOARD SWITCH)		S958	1-554-303-21	MT SWITCH (KEY BOARD SWITCH)	
S909	1-554-303-21	MT SWITCH (KEY BOARD SWITCH)		S959	1-554-303-21	MT SWITCH (KEY BOARD SWITCH)	
S910	1-554-303-21	MT SWITCH (KEY BOARD SWITCH)		S960	1-554-303-21	MT SWITCH (KEY BOARD SWITCH)	
S911	1-554-303-21	MT SWITCH (KEY BOARD SWITCH)		S961	1-554-303-21	MT SWITCH (KEY BOARD SWITCH)	
S912	1-554-303-21	MT SWITCH (KEY BOARD SWITCH)		*****			
S913	1-554-303-21	MT SWITCH (KEY BOARD SWITCH)		MISCELLANEOUS			
S914	1-554-303-21	MT SWITCH (KEY BOARD SWITCH)		*****			

	1-466-327-11	KEY BOARD UNIT (B)					

<DIODE>							
D951	9-990-901-01	LED TLY263P		Δ 1-237-614-12	RESISTOR ASSY, HIGH-VOLTAGE		
D952	9-990-901-01	LED TLY263P		Δ 1-426-497-11	COIL, DEMAGNETIZATION		
D953	9-990-893-01	LED TLY263P		Δ 1-451-315-21	DEFLECTION YOKE (Y34FXA)		
D954	9-990-893-01	LED TLY263P		1-452-032-00	MAGNET, DISK; 10MM ϕ		
D955	9-990-893-01	LED TLY263P		1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ		
D956	9-990-893-01	LED TLY263P		Δ 1-452-468-11	NECK ASSY, PICTURE TUBE (NA321)		
D957	9-990-893-01	LED TLY263P		Δ 1-554-966-12	SWITCH, PUSH (AC POWER) (1 KEY)		
D958	9-990-893-01	LED TLY263P		Δ 1-574-443-21	CORD, POWER (WITH NOISE FILTER)		
D959	9-990-893-01	LED TLY263P		R991 Δ 1-205-772-11	RES, CEMENT WIREWOUND 1 5% 30W		
D960	9-990-893-01	LED TLY263P		S938 Δ 1-570-757-11	SWITCH, PUSH (MANUAL DEGAUSS) (1 KEY)		
D961	9-990-893-01	LED TLY263P		V901 Δ 8-733-721-05	PICTURE TUBE (A80JYV10X)		
D962	9-990-893-01	LED TLY263P		*****			
D963	9-990-893-01	LED TLY263P		ACCESSORIES AND PACKING MATERIALS			
D964	9-990-893-01	LED TLY263P		*****			
D965	9-990-893-01	LED TLY263P		PART NO.	DESCRIPTION	REMARK	
D966	9-990-893-01	LED TLY263P		*X-4391-826-1	BOARD ASSY, BOTTOM		
D967	9-990-893-01	LED TLY263P		1-465-451-11	REMOTE COMMANDER (RM-785)		
D968	9-990-893-01	LED TLY263P		3-751-629-21	MANUAL, INSTRUCTION		
D969	9-990-893-01	LED TLY263P		*4-391-970-01	BAND		
D970	9-990-893-01	LED TLY263P		*4-395-902-01	BAG, PROTECTION		
				*4-397-511-01	CUSHION (UPPER) (ASSY)		
				*4-397-512-01	CUSHION (LOWER) (ASSY)		
				*4-397-709-01	INDIVIDUAL CARTON		
<IC>							
IC951	8-741-138-70	IC BX-1387 (DETECTOR)					
<RESISTOR>							
R951	1-247-710-11	CARBON	560 5% 1/4W F				
R952	1-247-703-11	CARBON	180 5% 1/4W F				
R953	1-247-707-11	CARBON	390 5% 1/4W F				
R954	1-247-707-11	CARBON	390 5% 1/4W F				
R955	1-247-707-11	CARBON	390 5% 1/4W F				
R956	1-247-707-11	CARBON	390 5% 1/4W F				
R957	1-247-707-11	CARBON	390 5% 1/4W F				
R958	1-247-707-11	CARBON	390 5% 1/4W F				
R959	1-247-707-11	CARBON	390 5% 1/4W F				
R960	1-247-707-11	CARBON	390 5% 1/4W F				
R961	1-247-707-11	CARBON	390 5% 1/4W F				
<SWITCH>							

PVM-3230

SONY. SERVICE MANUAL

*US Model
Canadian Model*
Chassis No. SCC-D39A-A

SUPPLEMENT-1

File this supplement with the service manual.

When replace CP2301 – CP2318, repair by following parts number.

SECTION 7 ELECTRICAL PARTS LIST U BOARD : See Page 101

<u>REF. No.</u>	<u>PART No.</u>	<u>DESCRIPTION</u>	<u>REMARK</u>
<COMPOSITION CIRCUIT BLOCK>			
CP2301	1-233-087-11	COMPOSITION CIRCUIT BLOCK	
CP2302	1-233-087-11	COMPOSITION CIRCUIT BLOCK	
CP2303	1-233-087-11	COMPOSITION CIRCUIT BLOCK	
CP2304	1-233-122-11	COMPOSITION CIRCUIT BLOCK	
CP2305	1-233-122-11	COMPOSITION CIRCUIT BLOCK	
CP2306	1-233-087-11	COMPOSITION CIRCUIT BLOCK	
CP2307	1-233-087-11	COMPOSITION CIRCUIT BLOCK	
CP2308	1-233-087-11	COMPOSITION CIRCUIT BLOCK	
CP2309	1-233-122-11	COMPOSITION CIRCUIT BLOCK	
CP2310	1-233-122-11	COMPOSITION CIRCUIT BLOCK	
CP2311	1-233-087-11	COMPOSITION CIRCUIT BLOCK	
CP2312	1-233-122-11	COMPOSITION CIRCUIT BLOCK	
CP2313	1-233-087-11	COMPOSITION CIRCUIT BLOCK	
CP2314	1-233-087-11	COMPOSITION CIRCUIT BLOCK	
CP2315	1-233-087-11	COMPOSITION CIRCUIT BLOCK	
CP2316	1-233-122-11	COMPOSITION CIRCUIT BLOCK	
CP2317	1-233-122-11	COMPOSITION CIRCUIT BLOCK	
CP2318	1-233-122-11	COMPOSITION CIRCUIT BLOCK	



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SONY

Video/RGB Monitor
Service Bulletin

Sony Service Company - Technical Services
A Division of Sony Corporation of America
Sony Drive, Park Ridge, New Jersey 07656

Model: PVM3230, PVM4300

No. 2

Subject: CCD Comb Pack Change

Date: March 12, 1993

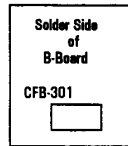
Symptom:
(133)

No vertical sync or picture distortion (light areas of the picture may be dragged to the right).

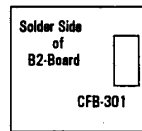
Solution:

Exchange the CCD Comb Pack "CCP-2" with the new one "CCP-2A".

MODEL	PART DESCRIPTION	BOARD	"NEW" PART NUMBER
PVM3230	CFB301: "CCP-2A"	B	1-808-703-12
PVM4300	CFB301: "CCP-2A"	B2	1-808-703-12



PVM3230



PVM4300

CSI-112 PVM Monitors

SONY

RGB/Video Monitors
Service Bulletin

CSI-112

Sony Service Company - Technical Services
A Division of Sony Electronics Inc.
Sony Drive, Park Ridge, New Jersey 07656

Model: PVM-3230

No. 9

Subject: Part Numbers for CP2301 to CP2318

Date: January 21, 1994

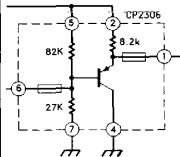
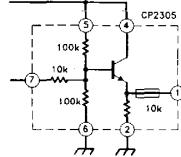
Symptom:

(***)

What are the Part Numbers to CP Modules 2301 through 2318 ?

Solution:

The Part Numbers to the CP Modules are listed Below:

PART No.	I-233-087-11	I-233-122-11
CP NO.	CP2301-CP2303 CP2306-CP2308 CP2311 CP2313-CP2315	CP2304 AND CP2305 CP2309 AND CP2310 CP2312 CP2316-CP2318
CIRCUIT DIAGRAMS	 <p>2SA1175 (8-729-119-76)</p>	 <p>2SC2785 (8-729-119-78)</p>



SONY

**Video/RGB Monitor
Service Bulletin**

Sony Service Company - Technical Services
A Division of Sony Corporation of America
Sony Drive, Park Ridge, New Jersey 07656

Model: SEE BELOW

No. 3

Subject: Cables and Adapters Chart For Monitors

Date: March 12, 1993

**GDM2038/GDM2036/GDM1936/CPD1704S/CPD1730/CPD1604S/CPD1430/
CPD1304S/CPD1304/CPD1302/CPD1320S/CPD1320/PVM3230/PVM2530/
PVM2030/GVM2000/GVM2020/GVM1300/GVM1311Q**

Symptom:

(**) What cable and/or adapter is needed for operating this monitor with my computer?

Solution:

Please refer to the Attached Chart on this document, to locate the cable and/or adapter required to connect a Sony Monitor to the corresponding Video type.

Note 1:

Symbol	Meaning
-	Not Compatible or Recommended
*	Use the Supplied or Attached Cable
@	At
ADAPTER Number	Use the Supplied or Attached Cable with the Adapter specified. Example: "Connecting the GDM1936 to the MAC Quadra (640X480, 66 Hz) requires the Supplied cable and the TMACSTD adapter."

Note 2: Any Non-Standard or Non listed IBM Video Modes will use the same cable as the VGA standard. However, compatibility with the non-standard or Non listed Video modes should be established. In Most Cases, compatibility is established by verifying that the Horizontal and Vertical operating frequencies of the Non-Standard or Non listed Video Modes fall in the operating range of the Monitor in question.

Note 3: Any Non-Standard or Non listed MAC Video Types will probably use the adapters as follows:

MAC Video Type or Resolution	Adapter Needed
640 X 400 @ 66 Hz	TMACSTD
640 X 480 @ 60 Hz	TMACLC6VGA
640 X 480 @ 66 Hz	TMACSTD
800 X 600 @ 56 Hz	TMACLC6VGA
832 X 624 @ 75 Hz	TQUA16
1152 X 870 @ 75 Hz	TMAC115VGA

Note 4: TMAC and TQUA adapters are not available through KCP. Customer should get these adapters through their dealer.

(Continued)



CSI-112
Monitors

Computer	Video Type	Monitors								
		GDM-2038 GDM-2036 GDM-1936 (1-590-226-11) Cable Supplied	CPD-1730 CPD-1704S CPD-1604S CPD-1430 CPD-1404S CPD-1304S Cable Attached	CPD-1304 (SMF-523) Cable Supplied	CPD-1302	CPD-1320 & CPD-1320S Cable Attached	PVM-2030 PVM-2530	PVM-3230	GVM-1300 GVM-1311Q GVM-2000 GVM-2020	
IBM	CGA	-	-	-	-	CTG-512 Cable	-	SMF-500 Cable	CTG-512 Cable	CTG-512 Cable
	EGA	-	-	-	-	CTG-512 Cable	-	-	CTG-512 Cable	CTG-512 Cable
	VGA	*	*	*	*	SMF-523 Cable	*	-	-	SMF-523 Cable
IBM Other	See Note 2									
MAC	640 X 480 @ 60Hz	TMACSTD	TMACSTD	TMACSTD	SMF-523 Cable & TMACSTD	-	-	-	-	SMF-523 Cable & TMACSTD
Quadra 700	640 X 480 @ 60Hz	TMACLC6VGA	TMACLC6VGA	TMACLC6VGA	SMF-523 Cable & TMACLC6VGA	TMACLC6VGA	-	-	-	SMF-523 Cable & TMACLC6VGA
800,900,950	800 X 600 @ 56Hz	TMACLC6VGA	TMACLC6VGA	TMACLC6VGA	SMF-523 Cable & TMACLC6VGA	-	-	-	-	SMF-523 Cable & TMACLC6VGA
Centris 610, 650	832 X 624 @ 75Hz	TQUA16	TQUA16	TQUA16	-	-	-	-	-	-
	1152 X 870 @ 75Hz	TMAC115VGA	-	-	-	-	-	-	-	-
MAC Isl, Iicl	640 X 480 @ 60Hz	TMACSTD	TMACSTD	TMACSTD	SMF-523 Cable & TMACSTD	-	-	-	-	SMF-523 Cable & TMACSTD
MAC LC, LC II, Itr, Itr Performa 400, 600	640 X 480 @ 60Hz	TMACLC6VGA	TMACLC6VGA	TMACLC6VGA	SMF-523 Cable & TMACLC6VGA	TMACLC6VGA	-	-	-	SMF-523 Cable & TMACLC6VGA
	640 X 480 @ 66Hz	TMACSTD	TMACSTD	TMACSTD	SMF-523 Cable & TMACSTD	-	-	-	-	SMF-523 Cable & TMACSTD
MAC LC III	640 X 480 @ 60Hz	TMACLC6VGA	TMACLC6VGA	TMACLC6VGA	SMF-523 Cable & TMACLC6VGA	TMACLC6VGA	-	-	-	SMF-523 Cable & TMACLC6VGA
	640 X 480 @ 66Hz	TMACSTD	TMACSTD	TMACSTD	SMF-523 Cable & TMACSTD	-	-	-	-	SMF-523 Cable & TMACSTD
	640 X 400 @ 66Hz	-	-	-	-	-	-	-	-	-
MAC PowerBook 160, 165e, Duo Dock, Duo Mini Dock,	640 X 480 @ 60Hz	TMACLC6VGA	TMACLC6VGA	TMACLC6VGA	SMF-523 Cable & TMACLC6VGA	TMACLC6VGA	-	-	-	SMF-523 Cable & TMACLC6VGA
	640 X 480 @ 66Hz	TMACSTD	TMACSTD	TMACSTD	SMF-523 Cable & TMACSTD	-	-	-	-	SMF-523 Cable & TMACSTD
	800 X 600 @ 56Hz	TMACLC6VGA	TMACLC6VGA	TMACLC6VGA	SMF-523 Cable & TMACLC6VGA	-	-	-	-	SMF-523 Cable & TMACLC6VGA
MAC Other	832 X 624 @ 75Hz	TQUA16	TQUA16	TQUA16	-	-	-	-	-	-
	See Note 3									