

PVM-80410/80440

SERVICE MANUAL

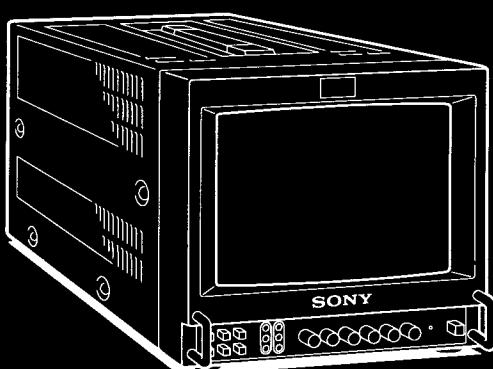
*US Model
Canadian Model*

PVM-8041Q

Chassis No. SCC-E96A-A

PVM-8044Q

Chassis No. SCC-E96C-A



SPECIFICATIONS

Video signal

Color system	PAL, SECAM, NTSC _{9.58} , NTSC _{4.43}
Resolution	PVM-8044Q : 450 TV lines PVM-8041Q : 250 TV lines
Aperture correction	-4.0 dB – +6.0 dB (at 3.0 MHz)
Frequency response	6.0 MHz (-3.0 dB) at all inputs
Synchronization	AFC time constant 1.0 msec.

Picture performance

Normal scan	6% over scan of CRT effective screen area
Underscan	3% underscan of CRT effective screen area
H. linearity	Less than 7.0% (typical)
V. linearity	Less than 7.0% (typical)
Convergence	Central area: 0.43mm (typical) Peripheral area: 0.53mm (typical)
Raster size stability	H: 1.0%, V: 1.5%
High voltage regulation	3.0%
Color temperature	D65

Inputs and Outputs

Inputs	Y/C IN: 4-pin mini DIN connector (See the pin assignment on page 2.) VIDEO IN: BNC connector 1Vp-p ± 6dB, sync negative AUDIO IN: phono jack, -5 dBs, less than 47k ohms
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R/R-Y, G/Y, B/B-Y: BNC connector
R, G, B channels: 0.7 Vp-p, ±6 dB
Sync on green : 0.3 Vp-p, negative,
75 ohms terminated
R-Y, B-Y channels: 0.7 Vp-p, ±6 dB
Y channel: 0.7 Vp-p, ± 6 dB
(Standard color bar signal of 75% chrominance)
EXT SYNC IN: BNC connector
Composite sync 4 Vp-p, ±6 dB,
negative

Loop-through outputs

Y/C OUT: 4-pin mini DIN connector
VIDEO OUT: BNC connector,
75 ohms terminated

AUDIO OUT: phono jack
EXT SYNC OUT: BNC connector,
75 ohms terminated

AUDIO OUTPUT 0.5W
TALLY/REMOTE: 8-pin mini DIN connector (See the pin assignment on page 2.)

General

Power consumption 45 W Max at AC operation
38 W at DC operation

— Continued on next page —

TRINITRON® COLOR VIDEO MONITOR
SONY®

Power requirements 120V AC, 50/60 Hz
12V DC, with the Sony NP-1A/1B
battery pack (not supplied) or
AC-500 AC power adaptor
(not supplied)

Operating temperature range
0 – 35 °C

Storage temperature range
–10 – +40 °C

Humidity 0 – 90%

Dimensions Approx. 217 x 217 x 352.5 mm (w/h/d)
(8 5/8 x 8 5/8 x 14 inches)
not incl. projecting parts and controls

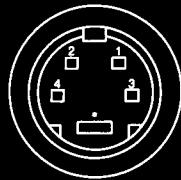
Weight Approx. 7.8 kg (17 lb 3 oz)
not incl. battery packs

Accessory supplied AC power cord (1)

Design and specifications are subject to change without notice.

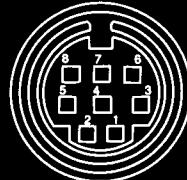
Pin Assignment

Y/C IN connector (4-pin mini DIN)



Pin No.	Signal	Description
1	Y-input	1 Vp-p, sync negative, 75 ohms
2	CHROMA sub-carrier- input	300 mVp-p, burst Delay time between Y and C: within 0±100 nsec., 75 ohms
3	GND for Y-input	GND
4	GND for CHROMA- input	GND

TALLY/REMOTE connector (8-pin mini DIN)



Pin No.	Signal
1	Blue only
2	H/V delay
3	GND
4	INT/EXT SYNC
5	Tally
6	Underscan/normal scan
7	A/B or RGB/component
8	RGB/LINE

For remote control, connect the pin of the desired function to pin 3 (GND).

SAFETY CHECK-OUT

(US Model only)

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

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

LEAKAGE

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

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

HOW TO FIND A GOOD EARTH GROUND

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

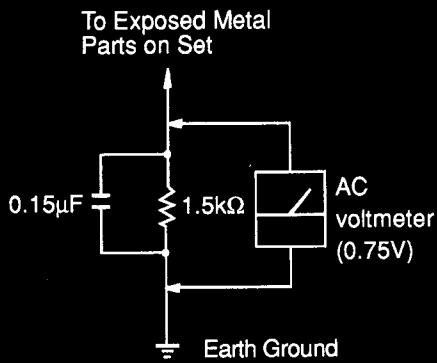


Fig. A. Using an AC voltmeter to check AC leakage.

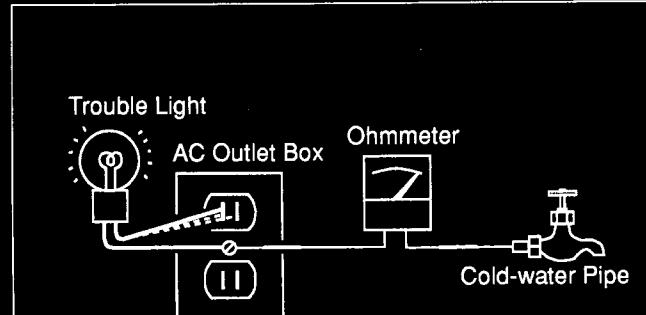


Fig. B. Checking for earth ground.

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(CAUTION)

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

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

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

(ATTENTION)

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

ATTENTION!!

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

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MAPQUE Δ SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIÈCES CONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÈCE EST INDICUÉ 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.

SECTION 1

GENERAL

1-1. FEATURES

Four color systems available

The monitor can display PAL, SECAM, NTSC_{3.58} and NTSC_{4.43*} signals. The appropriate color system is selected automatically.

* A signal of NTSC_{4.43} is used for playing back NTSC recorded video cassettes with a video tape recorder/player especially designed for use with this system.

Super Fine Pitch Trinitron picture tube

(PVM-8044Q only)

The Super Fine Pitch Trinitron picture tube provides a high resolution picture. Horizontal resolution is more than 450 TV lines at the center of the picture.

Blue only picture

The picture can be displayed in blue and black only. This facilitates hue adjustment and the observation of video noise.

Analog RGB/component Input connectors

Analog RGB or component (Y, R-Y and B-Y) signals from video equipment can be input through these connectors.

Y/C Input connector

The video signal, split into the chrominance signal (C) and the luminance signal (Y), can be input through this connector, eliminating the interference between the two signals, which tends to occur in a composite video signal, assuring video quality.

Beam current feedback circuit

The built-in beam current feedback circuit assures stable white balance.

Comb filter

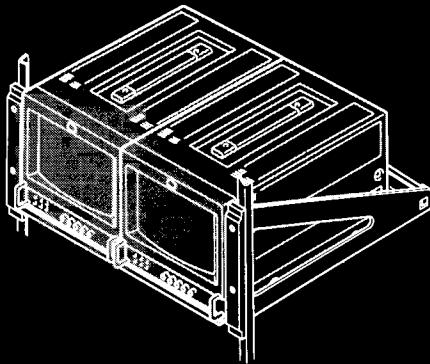
When NTSC video signals are received, a comb filter activates to increase the resolution, resulting in fine picture detail without color spill or color noise.

Automatic termination

The Y/C, VIDEO IN and EXT SYNC IN connectors are terminated at 75 ohms inside, when no cable is connected to the loop-through output connectors. When a cable is connected to an output connector, the 75-ohm termination is automatically released.

EIA standard 19-inch rack mounting

By using an MB-507 mounting bracket (not supplied), the monitor can be mounted in an EIA standard 19-inch rack. For details on mounting, see the instruction manual of the MB-507.



For the Customers in the USA

INFORMATION

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

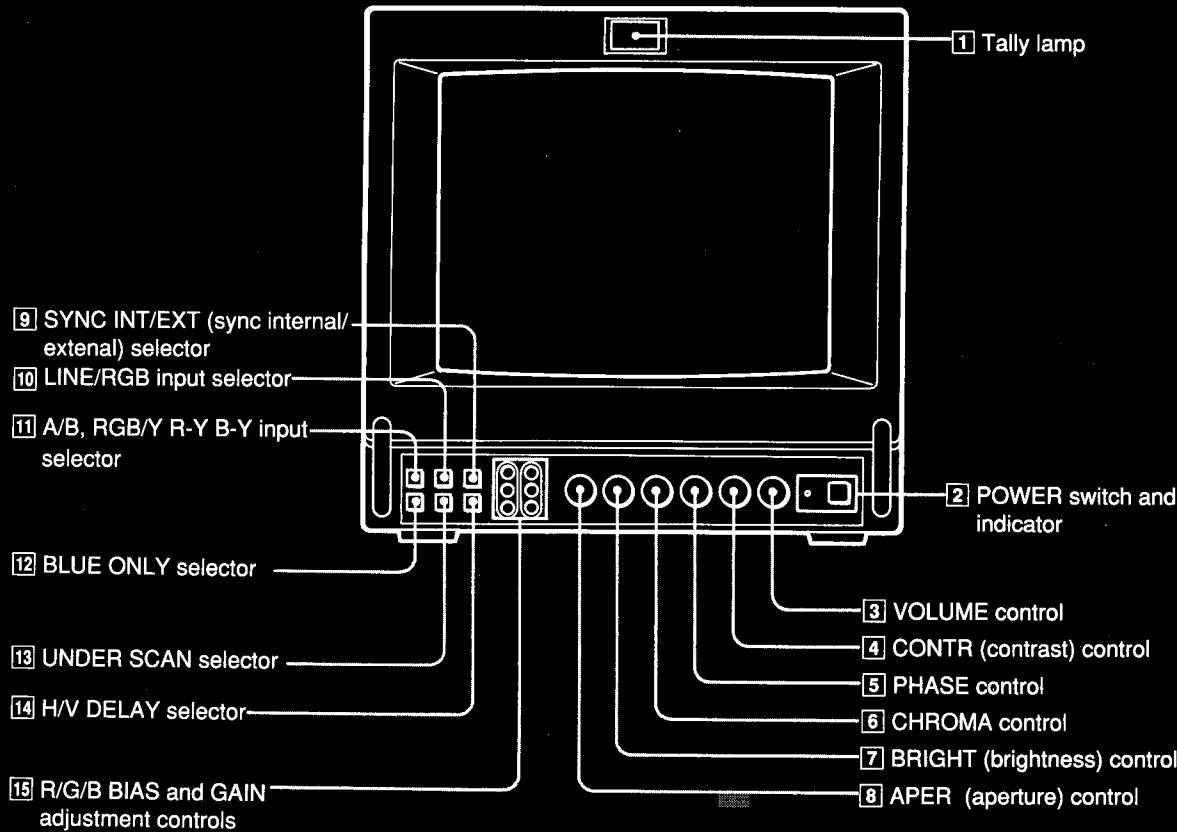
You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

For the Customers in Canada

This apparatus complies with the Class A limits for radio noise emissions set out in Radio Interference Regulations.

1-2. LOCATION AND FUNCTION OF PARTS AND CONTROLS

Front



1 Tally lamp

2 POWER switch and indicator

Depress to turn the monitor on. The indicator will light up in green.

The POWER indicator also functions as the battery indicator. When the internal battery becomes weak or the power supplied through the DC12V IN jack decreases, the indicator flashes.

3 VOLUME control

Turn this control clockwise or counterclockwise to obtain the desired volume.

4 CONTR (contrast) control

Turn clockwise to make the contrast stronger and counterclockwise to make it weaker.

5 PHASE control

This control is effective only for the NTSC3.58 and NTSC4.43 color systems. Turn clockwise to make the skin tones greenish and counterclockwise to make them purplish.

Notes

- The PHASE, CHROMA and APER control settings have no effect on an analog RGB signal.
- The PHASE control has no effect on component signals.
- The PHASE control setting is effective only for the NTSC system.

6 CHROMA control

Turn clockwise to make the color intensity stronger and counterclockwise to make it weaker.

7 BRIGHT (brightness) control

Turn clockwise for more brightness and counterclockwise for less.

8 APER (aperture) control

Turn clockwise for more sharpness and counterclockwise for less.

9 SYNC INT/EXT (sync internal/external) selector

Keep this button released (INT) to operate the monitor on the sync signal from the displayed composite video signal.

Depress this button (EXT) to operate the monitor on an external sync signal fed through the EXT SYNC connector on the rear panel.

[10] LINE/RGB input selector

Select the program to be monitored. Keep this button released (LINE) for a signal fed through the LINE A or LINE B connectors. Depress this button (RGB) for a signal fed through the RGB connectors.

[11] A/B, RGB/Y R-Y B-Y input selector

When the LINE/RGB input selector is set to LINE, keep this button released (A) for a signal fed through the LINE A connectors. Depress this button (B) for a signal fed through the LINE B connectors.

When the LINE/RGB input selector is set to RGB, select the RGB signal or the component signal which is fed through the RGB input connectors. Keep this button released (RGB) for the RGB signal. Depress this button (Y R-Y B-Y) for the component signal.

[12] BLUE ONLY selector

Depress this button to turn off the red and green signals. A blue signal is displayed as an apparent monochrome picture on the screen. This facilitates "chroma" and "phase" control adjustments and the observation of video noise.

[13] UNDER SCAN selector

Depress this button for underscanning. The display size is reduced by approximately 3% so that four corners of the raster are visible.

[14] H/V DELAY selector

Depress this button to observe the horizontal and vertical sync signals at the same time. The horizontal sync signal is displayed in the left quarter of the screen; the vertical sync signal is displayed near the center of the screen.

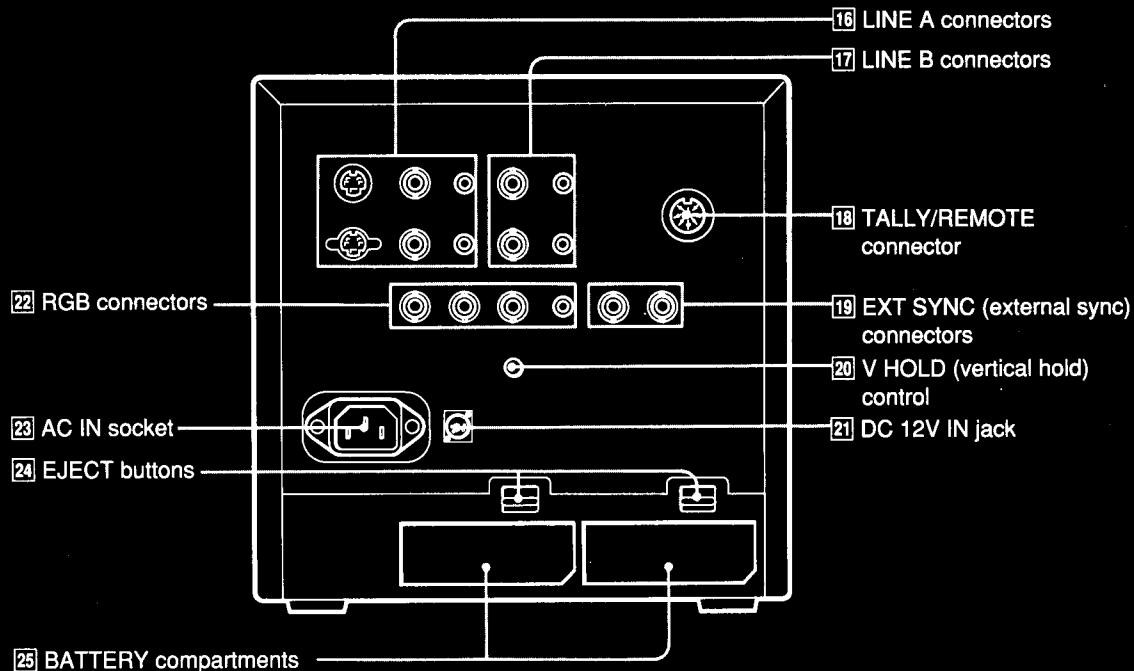
[15] R/G/B BIAS and GAIN adjustment controls

Used for white balance fine adjustment. BIAS and GAIN controls are provided for the R (red), G (green) and B (blue) screens.

BIAS: Adjust the white balance and brightness of the screen at the lowlight.

GAIN: Adjust the white balance and brightness of the screen at the highlight.

Rear

**[16] LINE A connectors**

To monitor the signal fed through these connectors, keep the LINE/RGB selector and the A/B, RGB/Y R-Y B-Y selector on the front panel released (LINE and A).

Note

The Y/C IN connector has a priority over the VIDEO IN connector.

When a plug is connected to the Y/C IN connector, the VIDEO IN connector is automatically disconnected.

[17] LINE B connectors

To monitor the signal fed through these connectors, keep the LINE/RGB selector released (LINE) and depress the A/B, RGB/Y R-Y B-Y selector (B) on the front panel.

VIDEO IN (BNC): Connect to the video output of a video camera, VCR or other video equipment.

VIDEO OUT (BNC): Loop-through output of the VIDEO IN connector. Connect to the video input of a VCR or another monitor.

AUDIO IN (phono jack): Connect to the audio output of a VCR or a microphone (through a suitable microphone amplifier).

AUDIO OUT (phono jack): Loop-through output of the AUDIO IN connector. Connect to the audio input of a VCR or another monitor.

[18] TALLY/REMOTE connector (8-pin mini DIN)

Connect to the tally output of a control console, special-effect generator, etc. The tally lamp on the front panel will be turned on and off by the connected equipment. This connector can be used for connecting a remote controller. For the pin assignment of this connector, see "Specifications" on page 2.

[19] EXT SYNC (external sync) connectors

IN (BNC): When this monitor operates on an external sync signal, connect the reference signal from a sync generator to this connector. In this case, depress the SYNC INT/EXT selector (EXT) on the front panel.

OUT (BNC): Loop-through output of the EXT SYNC IN connector. Connect to the external sync input of video equipment to be synchronized with this monitor.

[20] V HOLD (vertical hold) control

Turn to stabilize the picture if it rolls vertically.

[21] DC 12V IN jack (XLR, 4 pin)

Connect the Sony AC-500 AC power adaptor (not supplied).

[22] RGB/component input connectors**R/R-Y, G/Y, B/B-Y (BNC), AUDIO (phono):**

To monitor a signal fed through these connectors, depress the LINE/RGB selector on the front panel (RGB). When the SYNC INT/EXT selector on the front panel is released (INT), the monitor operates on the sync signal from the G/Y channel.

To monitor the analog RGB signal

Connect to the analog RGB signal outputs of a video camera having no sync signal. Keep the A/B, RGB/Y R-Y B-Y selector on the front panel released (RGB).

To monitor the component signal

Connect to the R-Y/Y/B-Y component signal outputs of a Sony BetaCam video camera. Depress the A/B, RGB/Y R-Y B-Y selector on the front panel (Y R-Y B-Y).

[23] AC IN socket

Connect the supplied AC power cord to this socket and to a wall outlet.

[24] EJECT buttons

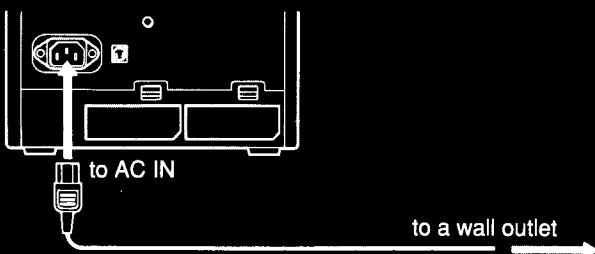
Press the EJECT button upwards to remove the battery pack.

[25] BATTERY compartments

Insert the NP-1A/1B battery pack (not supplied).

1-3. POWER SOURCES**House Current**

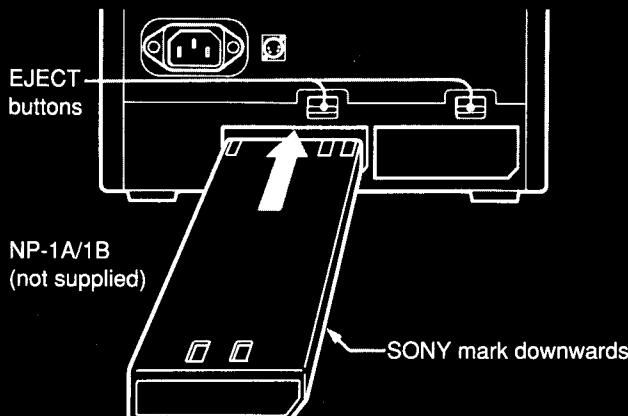
Connect the supplied AC power cord to the AC IN socket and to a wall outlet.



When the AC power cord is plugged into the AC IN socket, the battery pack (if installed) or the AC power adaptor (if connected) is automatically disconnected.

Rechargeable Battery

The monitor can operate with one or two battery packs. For extended use, two battery packs are recommended.



To remove the battery pack, press the EJECT button upwards.

For charging, use the BC-1WA battery charger (not supplied) for the NP-1A or the BC-1WB for the NP-1B.

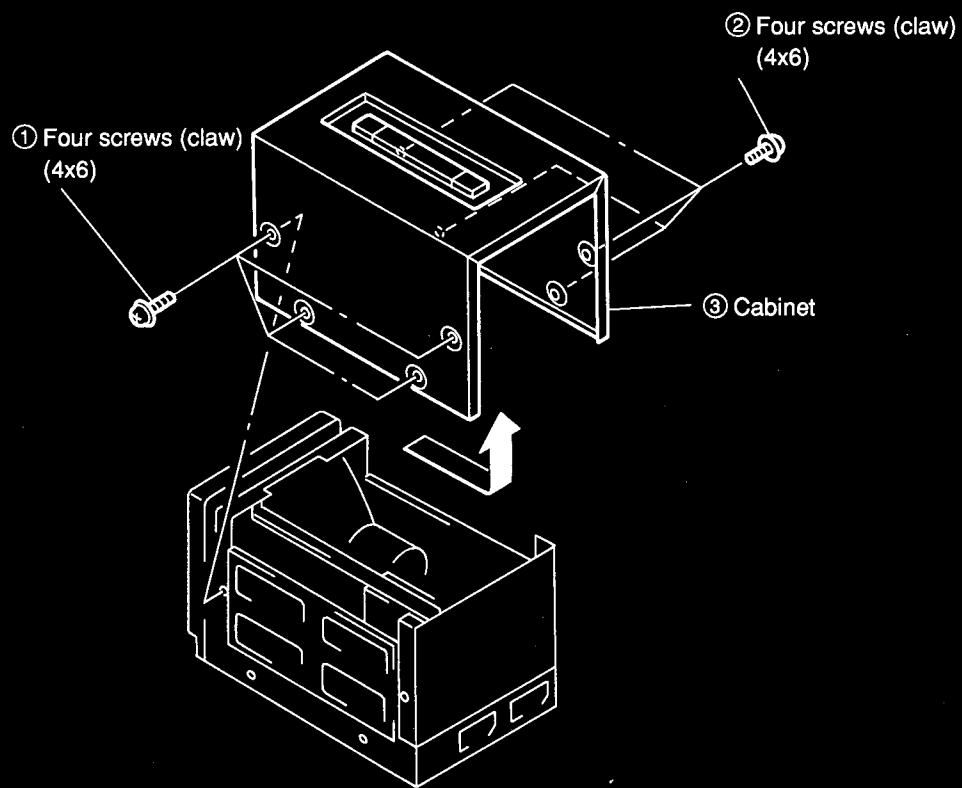
Note

Make sure that the AC power cord and the AC power adaptor are disconnected from the monitor. Otherwise, the monitor cannot operate on the battery pack(s).

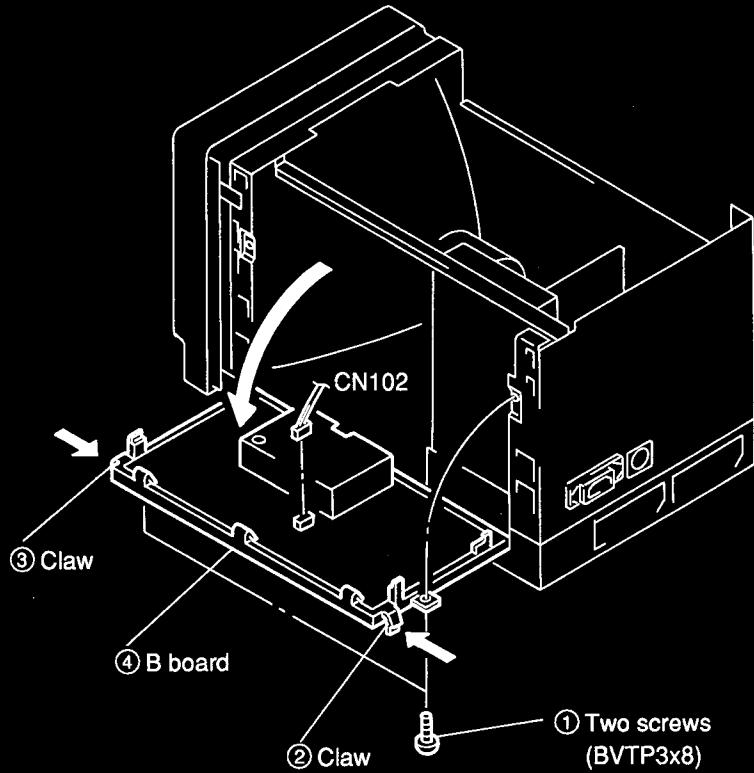
MEMO

SECTION 2 DISASSEMBLY

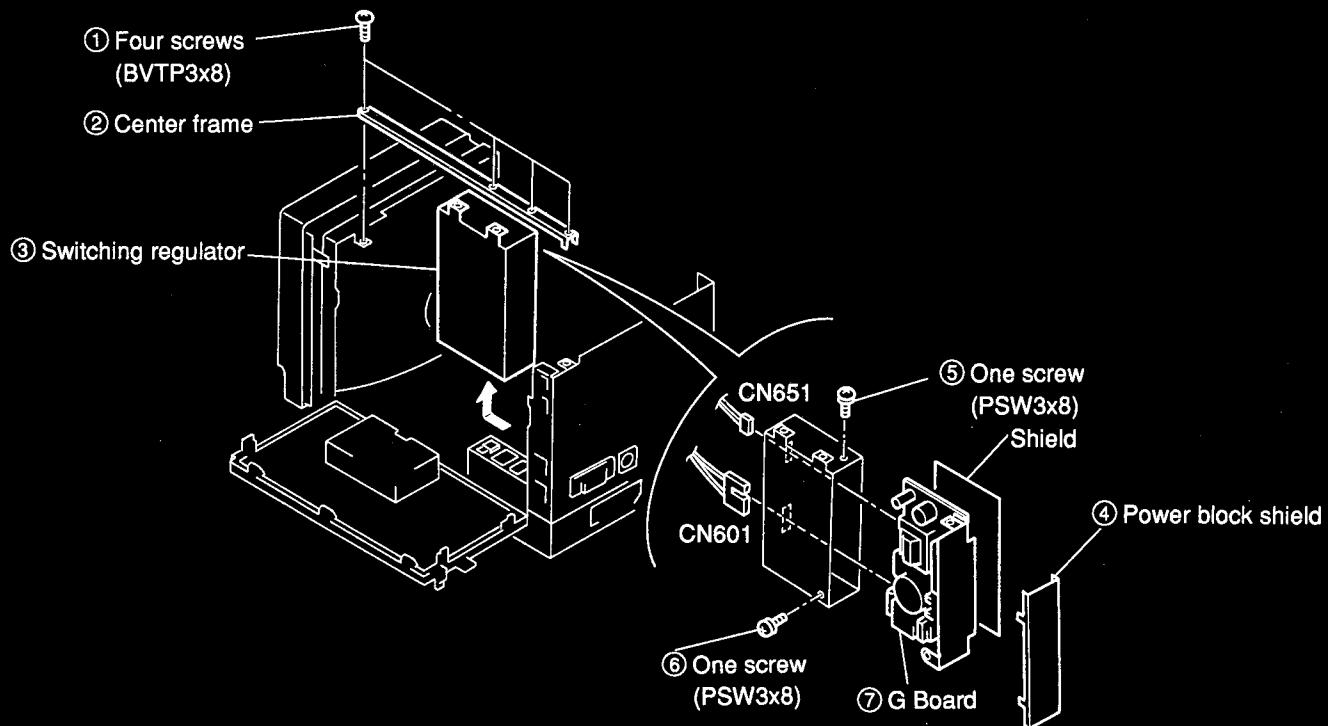
2-1. CABINET REMOVAL



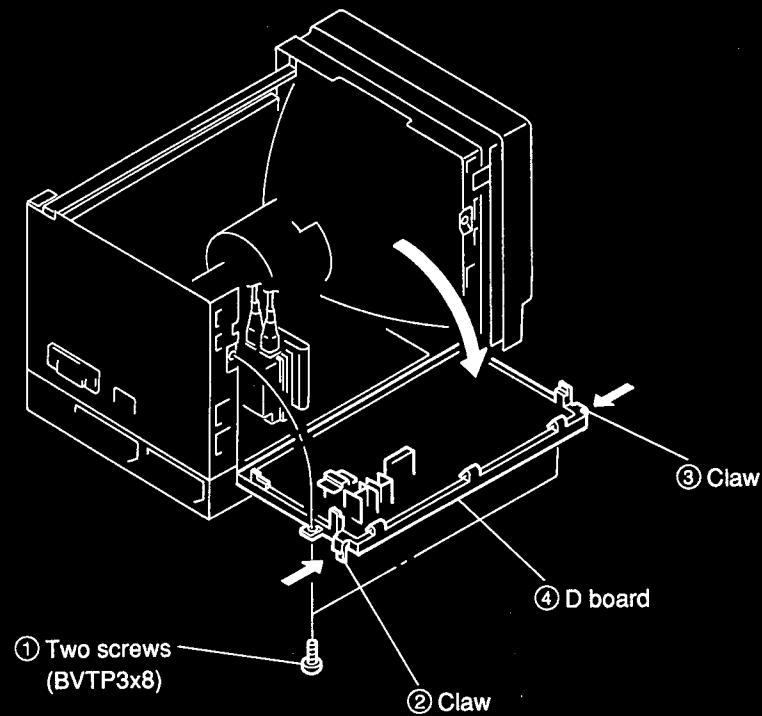
2-2. B BOARD REMOVAL



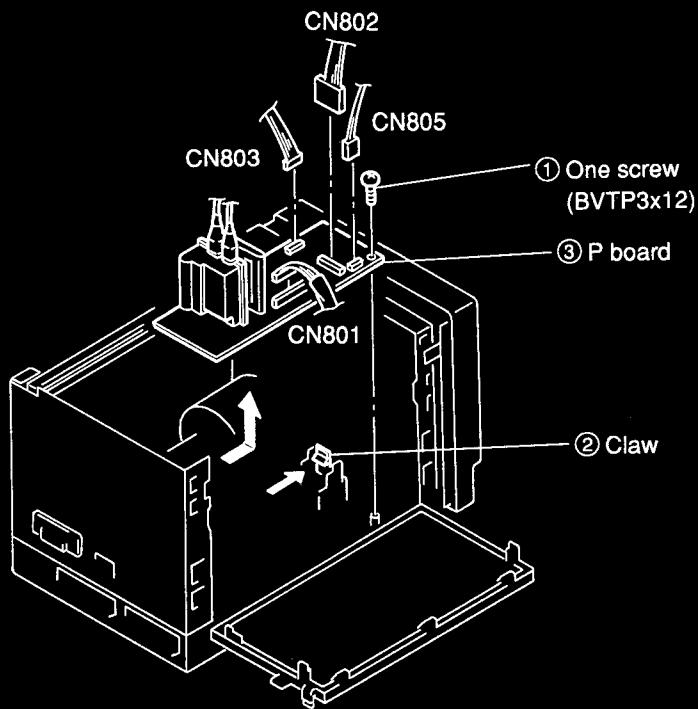
2-3. SWITCHING REGULATOR REMOVAL



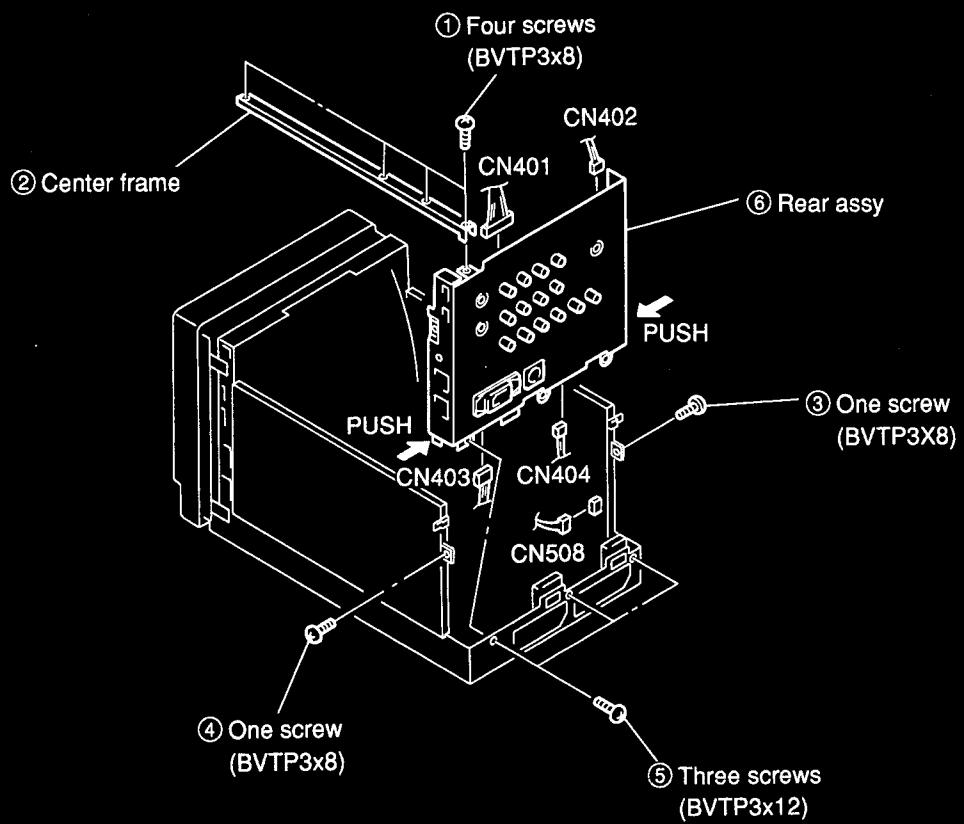
2-4. D BOARD REMOVAL



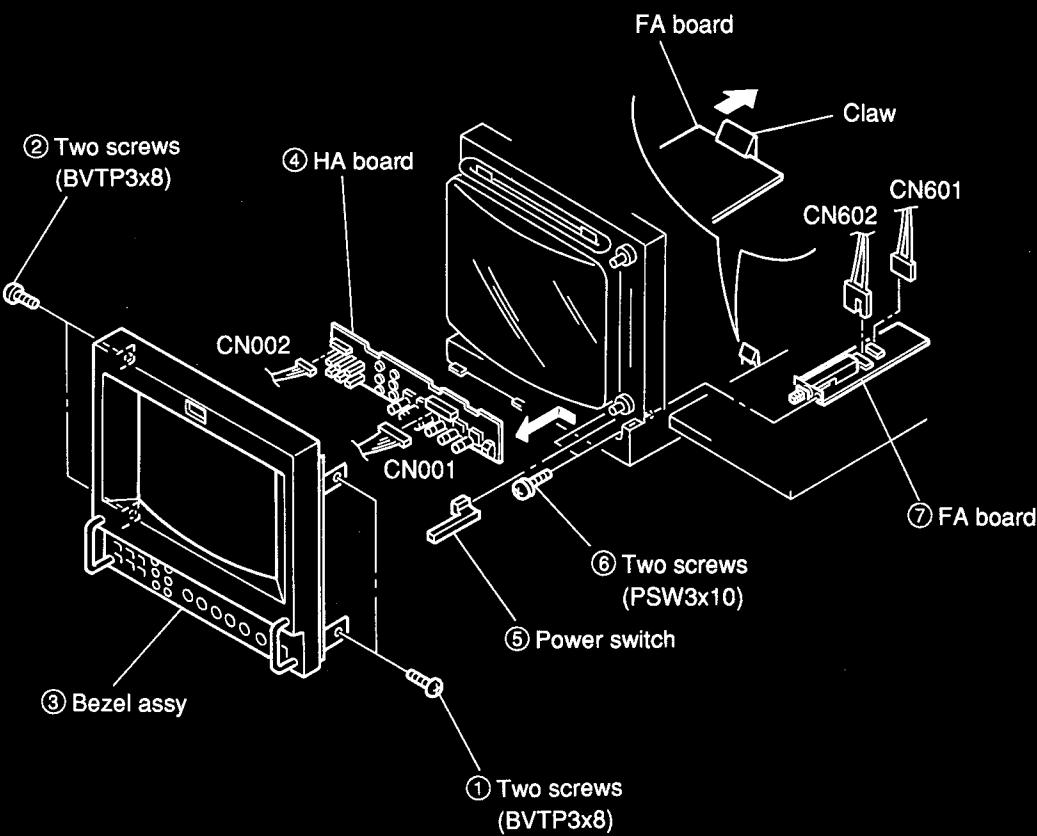
2-5. P BOARD REMOVAL



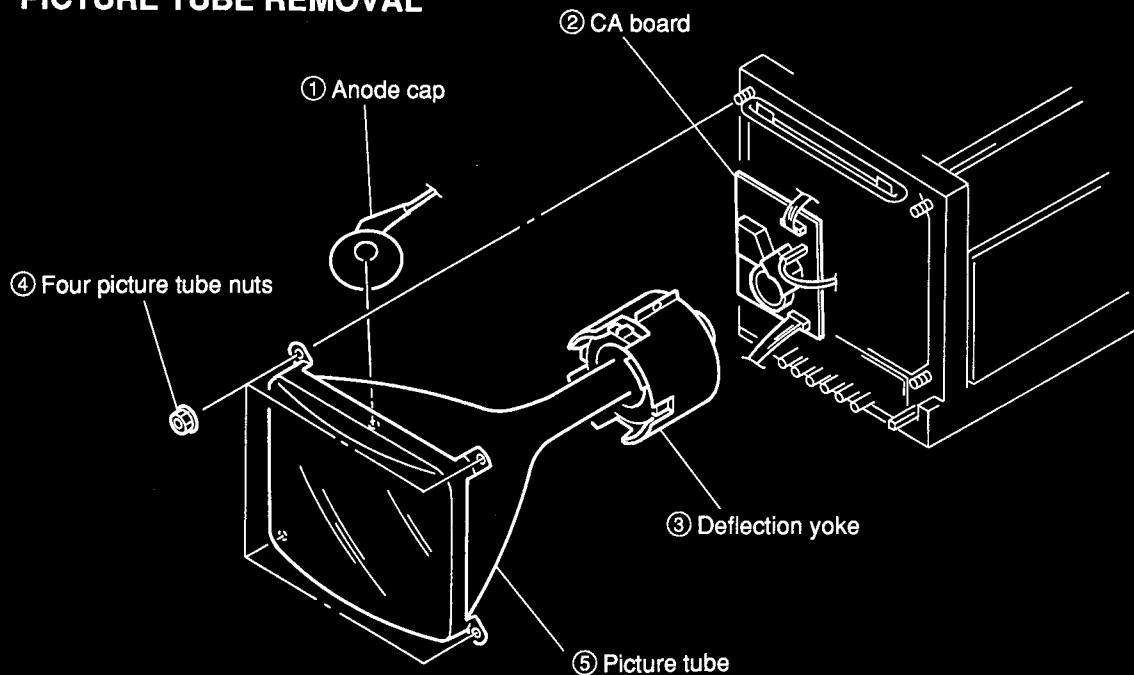
2-6. REAR ASSY REMOVAL



2-7. HA AND FA BOARDS REMOVAL



2-8. PICTURE TUBE REMOVAL



Note : Caution for ANODE CAP installation.

When you replace PICTURE TUBE or FBT, remove RTV on ANODE CAP so that PICTURE TUBE and FBT can be separated. Please adhere picture tube and anode cap in accordance with the following procedure.

ADHERING PROCEDURE OF ANODE CAP.

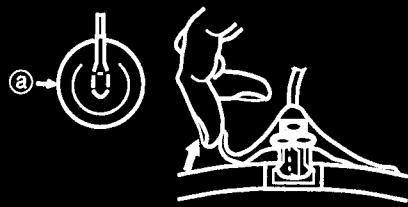
1. Clean PICTURE TUBE ANODE CAP with ethnaol to remove original RTV.
2. Dry clean face with air.

3. Use KE-490RTV (RTV silicone adhesive, SHIN-ETSU CHEMICAL).

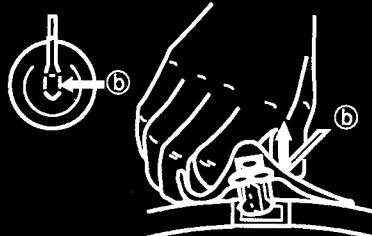
Part. No.	Description
7-322-065-19	Silicone (RTV) KE-490W

4. Install ANODE CAP.
5. Adequately apply RTV to the entire picture tube anode area, place the anode cap onto the picture tube and push it down securely so that no air pockets remain beneath the cap.
6. Dry more than 12 hours at room temperature.

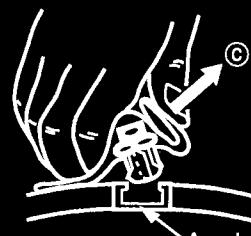
- **REMOVAL OF ANODE-CAP**
- **REMOVING PROCEDURES**



- ① Turn up one side of the rubber cap in the direction indicated by the arrow ①.



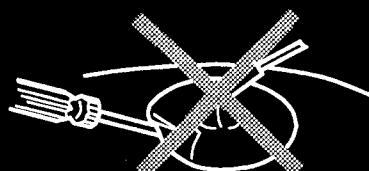
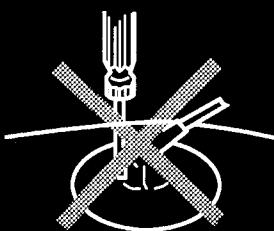
- ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ②.



- ③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ③.

• 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!



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.

The control and switch below should be set as follows unless otherwise noted:

CONTRAST control 80%
BRIGHTNESS control 50%

Perform the adjustments in order as follows:

3-1. Beam Landing

3-2. Convergence

3-3. Focus

3-4. White Balance

Note: Test equipment Required.

- Color Bar/Pattern Generator
- Degausser
- Color Analyzer (Minolta)
- Luminance Level Meter

3-1. BEAM LANDING

Precaution

- Set the side of the unit with the PICTURE TUBE so that it faces east or west in order to reduce the influence of external magnetic force.
- Turn the power switch for the unit ON and erase the magnetic force using a degausser.

(1) Beam Landing

- Receive an entirely white signal with the pattern generator.
CONTRAST MAX.
BRIGHTNESS set easy to observe
- Adjust the white balance, G2 voltage and convergence roughly.
- Loosen the deflection yoke mounting screw, and set the purity control to the center as shown in Fig.3-1.
- Switch over the pattern generator to green.
- Move the deflection yoke backward, and adjust with the purity control so that green is in the center and blue and red are at the sides, evenly. (Fig.3-2)
- Move the deflection yoke forward, and adjust so that the entire screen becomes green. Repeat 5 to 7 as to red and blue.
- When landing at the corners is not right, correct by using the magnet. (Fig.3-3)
- When the position of the deflection yoke is determined, tighten it with a deflection yoke mounting screw.

CAUTION: When correction magnet is used, be sure to degauss the unit.

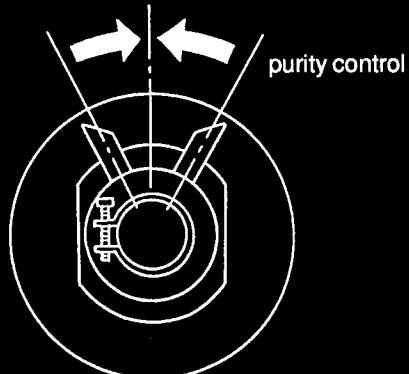


Fig.3-1



Fig.3-2

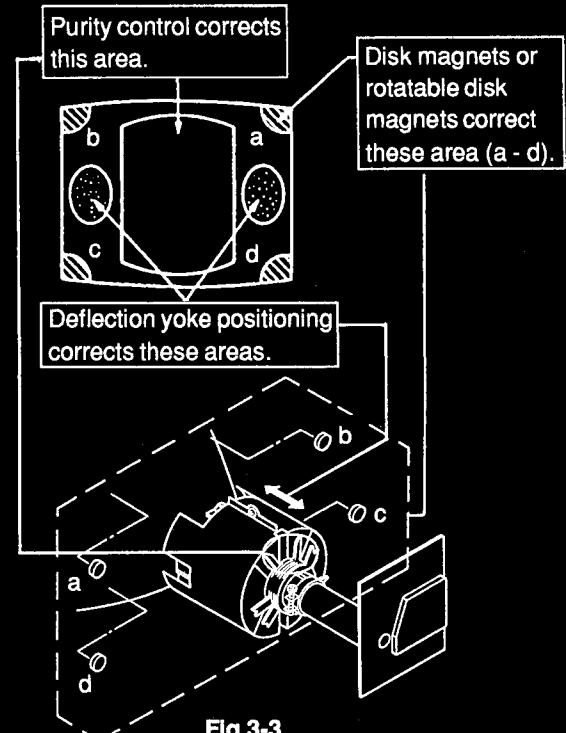
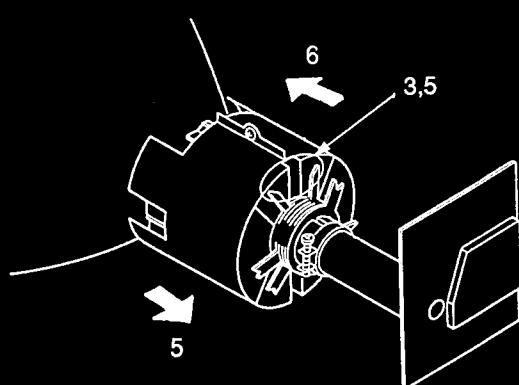


Fig.3-3



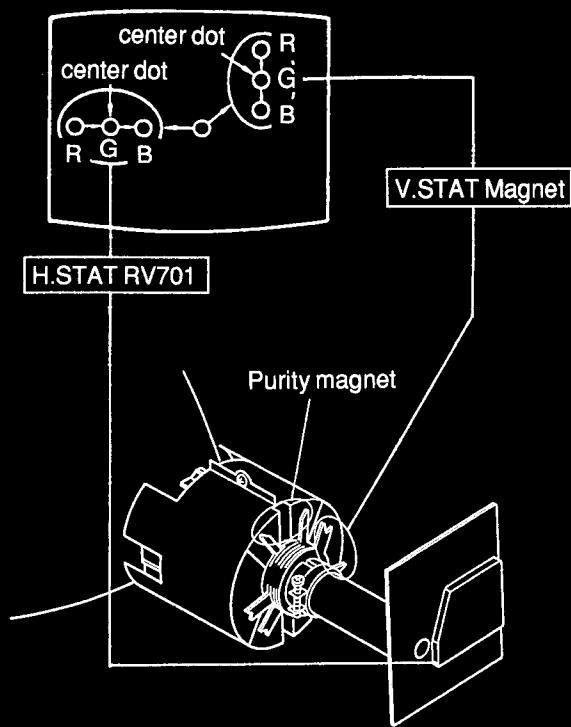
3-2. CONVERGENCE

(1) Horizontal and vertical Static Convergence Adjustment on the Center of Screen.

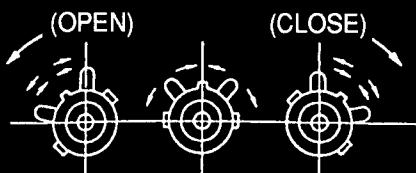
- Before starting, perform V. SIZE, V. CENT, H.SIZE, H.CENT and Screen Distortion Adjustment rightly.

(Static Convergence Adjustment)

- Receive a dot signal, setting BRIGHTNESS minimum and set CONTRAST to normal.
- Adjust H.STAT VR to coincide red, green and blue dots on the center of screen. (Horizontal movement)
- Adjust V.STAT magnet to coincide red, green and blue dots on the center of screen. (Vertical movement)

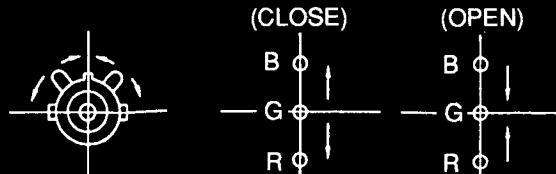


- If the red, green and blue dots do not coincide on the center of screen with H.STAT VR, perform adjustment using V.STAT at the same time while tracking.
(Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.)



- When the V.STAT magnet is moved in the direction of arrow A and b, red, green and blue dots move as shown below.

- When moving the V.STAT Magnet open or close.



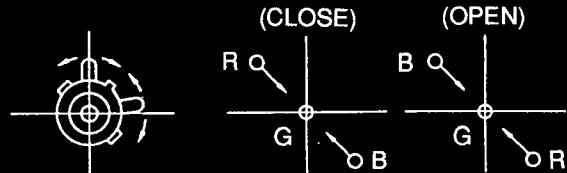
- When moving the V.STAT magnet counterclockwise.



- When moving the V.STAT magnet clockwise.



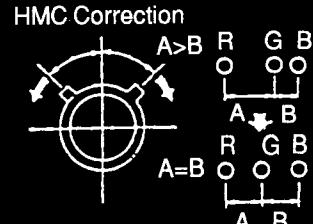
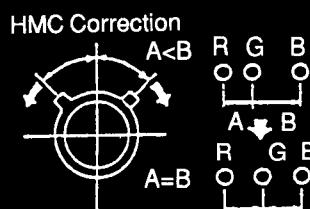
- When tilt the V.STAT magnet and open or close.



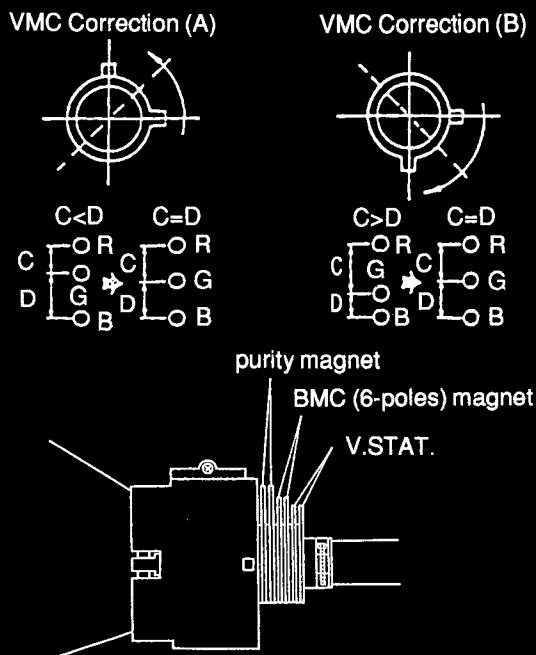
- If the red and green dots do not coincide with blue dot, adjustment with BMC (6-poles) magnet.

- HMC and VMC correction for BMC (6-Poles) magnet.

- HMC (Horizontal Misconvergence) correction and motion of the Electron Beam with the BMC (6-poles) magnet.

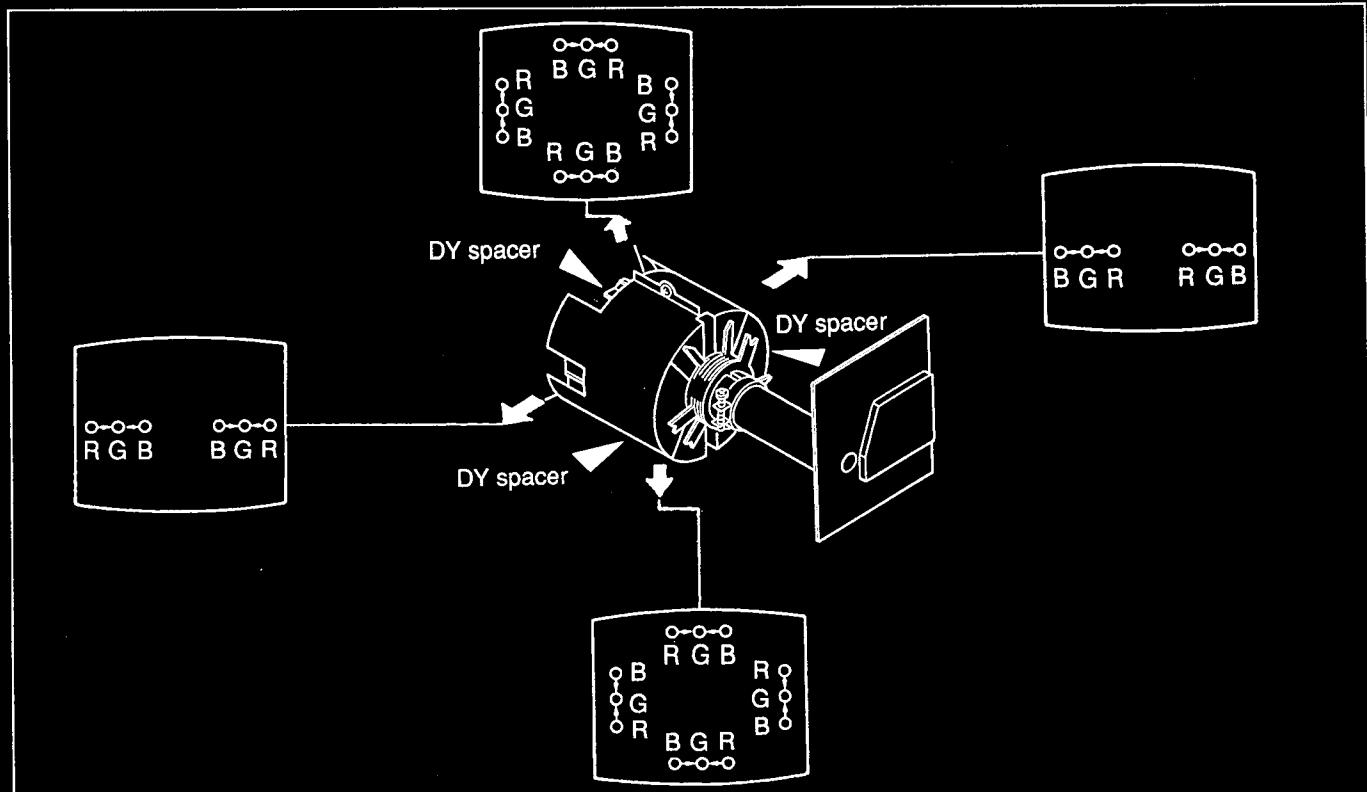


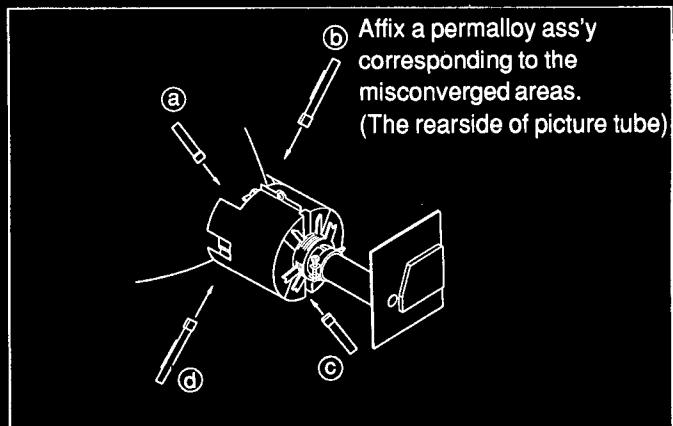
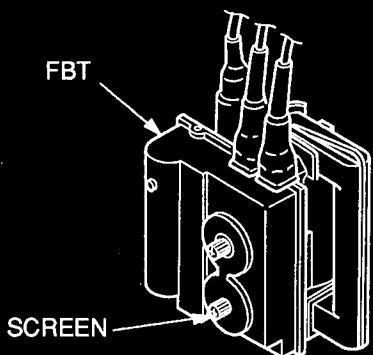
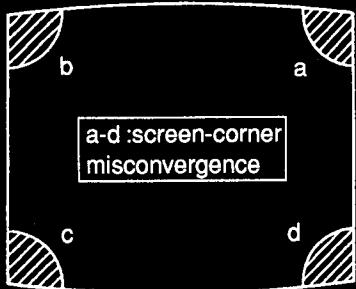
- ② VMC (Vertical Misconvergence) correction and motion of the Electron Beam with the BMC (6-poles) magnet.



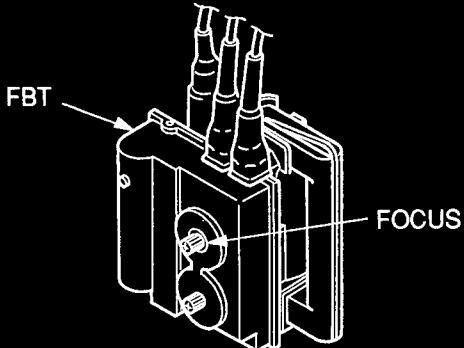
(2) Horizontal and Vertical Dynamic Convergence Adjustment at the Environs of the Screen (Dynamic Convergence Adjustment)

1. When there is misconvergence at the sides of screen, adjust for best convergence as follows by moving the deflection yoke.
2. Loosen deflection yoke screw. Remove deflection yoke spacers. Move the deflection yoke for best convergence. Tighten the deflection yoke screw. Install three deflection yoke spacers.



Screen-corner Convergence**3-3. FOCUS**

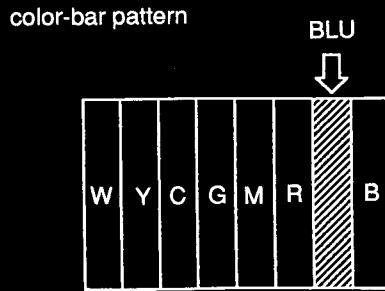
1. Receive the broadcast.
2. CONTRAST → Normal
3. Adjust FOCUS control so that the focus on the center of screen becomes to the best.

**3-4. WHITE BALANCE****[Screen (G2) Voltage Adjustment]**

1. Receive a dot signal with the pattern generator.
2. Adjust R. G. B cut-off controls so that respective cathode voltage against ground becomes 103V DC.
3. Observing the screen, adjust SCREEN control so that the background of the dot signal is bright dimly.

[White Balance]

1. Receive a color-bar pattern signal with the pattern generator. (Make black and white screen by chroma switch off.)
2.
 - BRIGHTNESS 50%
 - CONTRAST Minimum
 - CHROMA 50%
 - DRIVE control Mechanical center
 - BKG control Mechanical center
3. Adjust RV118 (SUB BRT) on B board so that the blue stripe portion on the color-bar pattern signal is bright dimly.



4. Receive an entirely white signal from the pattern generator.
5. CONTRAST 70% (90 degree clockwise from mechanical center.)
6. Using the luminance level meter, adjust the luminance level of the pattern generator becomes 3 Nits. (The condition the screen is bright dimly.)
7. Adjust white balance at cut-off using RV119 (G-C/O) and RV121 (B-C/O).
8. Change the all-white signal luminance level to 100 IREs.
9. Adjust white balance at high-light using RV120 (G-GAIN) and RV121 (B-GAIN).
10. Change the unit to blue ONLY mode.
11. Adjust white balance (at high-light) in blue ONLY mode using RV124 *R-GAIN/BL and RV125 (G-GAIN/BL).
12. Using the luminance level meter, adjust the luminance level of the pattern generator becomes 8 Nits. Confirm that white balance at cut-off is satisfactory..

SECTION 4

SAFETY RELATED ADJUSTMENT

4-1. SAFETY RELATED ADJUSTMENTS

B+ MAX CONFIRMATION (RV651)

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

on G board : (Power supply block)
IC601, IC651, PH602, C655, R653, R655, R656, R657, RV651.

1. For US model, supply $130V^{+0.5}_{-0}$ V AC with variable auto-transformer.
2. Receive a dot signal.
3. • CONTRASTMinimum
• BRIGHTNESSMinimum
4. Connect a digital multimeter to RY1601 pin-⑦ of D board.
5. Turn RV651 on the G board fully clockwise. Confirm that the voltage of RY1601 pin-⑦ is less than 41.9V DC.
6. If step 5 is not satisfied, readjust the RV651. After adjusting, fasten RV651 in place with epoxy.

B+ MAX IN DC POWER INPUT MODE, CONFIRMATION (RV1603)

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

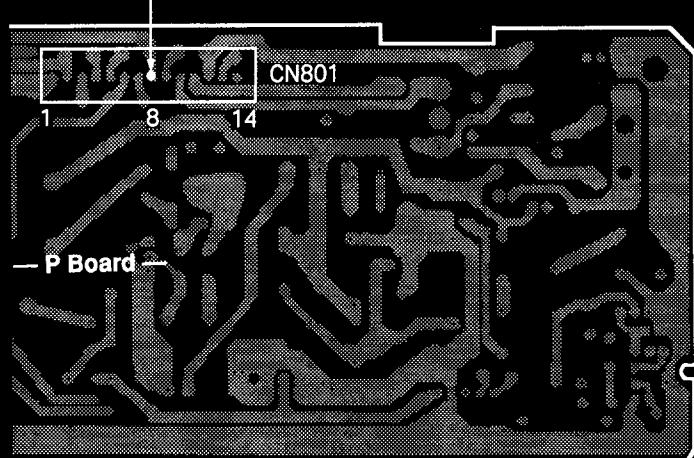
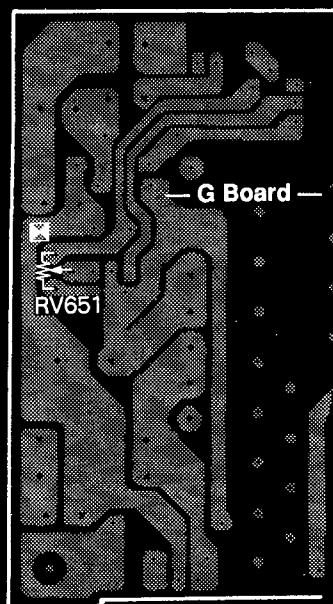
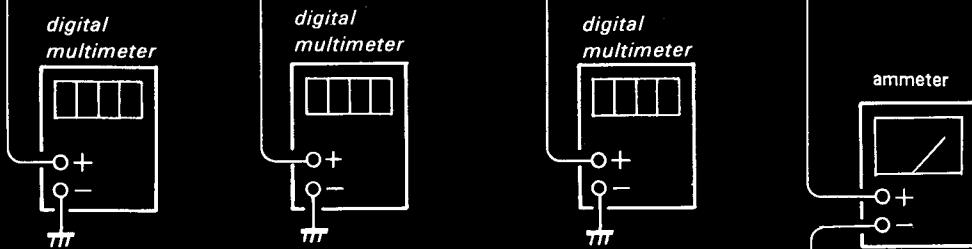
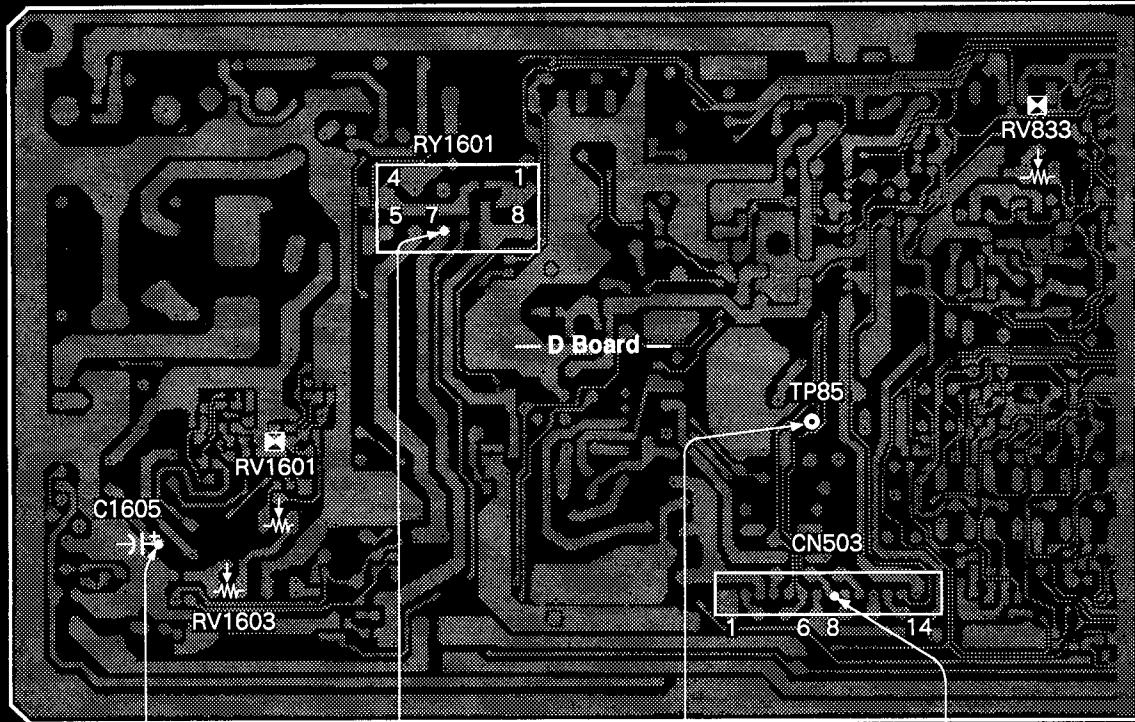
on D board :
Q1601, Q1602, Q1603, D1601, D1602, D1603, D1604, D1605, C1601, C1602, R1601, R1602, R1603, R1604, R1605, R1606, R1607, R1608, R1629, R1628, R1630, RV1601, RV1603.

1. Supply DC $12V^{+0.4}_{-0}$ V from DC 12V IN connector.
2. Receive a dot signal.
3. • CONTRASTMinimum
• BRIGHTNESSMinimum
4. Connect a digital multimeter to C1605 positive + side of D board.
5. Turn RV1601 on the D board fully clockwise. Confirm that the voltage of C1605 + pin is less than 41.9V DC.
6. If step 5 is not satisfied, readjust the RV1603. After adjusting, fasten RV1603 in place with epoxy.

HOLD-DOWN CIRCUIT CONFIRMATION (RV833) AND READJUSTMENTS

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

- on D board:
IC502, Q833, Q834, Q835, Q836, D835, D836, C519, C814, C843, C844, C845, C846, C847, C848, RV833, R523, R850, R851, R852, R853, R854, R855, R856, R857, R858, R859, R861, R862, R863, NL801.
- on P board:NL801, T802 (FBT)
 1. Receive an entire white signal.
 2. • CONTRASTMaximum
• BRIGHTNESSMaximum
 3. Connect a digital multimeter to the TP85 (CN503 pin-⑥).
 4. Confirm the voltage is 14.1 ± 3.0 V DC.
 5. Receive a dot signal.
 6. Connect an ammeter between D board CN503 pin-⑧ and P board CN801 pin-⑧.
 7. Adjust BRIGHTNESS and CONTRAST so that the current is $IABL = 160 \pm 30 \mu A$.
 8. Apply an external DC voltage gradually to TP85. When the voltage becomes $18.5V \pm 0.1$ V DC, confirm the HOLD-DOWN circuit operates immediately and raster disappears.
 9. When external DC voltage at TP85 becomes $17.5V \pm 0.1$ V DC, confirm the HOLD-DOWN circuit doesn't operate.
 10. Receive an entire white signal.
 11. Adjust with BRIGHTNESS and CONTRAST controls so that the current is $IABL = 520 \pm 30 \mu A$.
 12. Apply DC voltage of $17.8V \pm 0.1$ V to TP85. Confirm the HOLD-DOWN circuit operates immediately and raster disappears.
 13. With the same set-up as steps 10 and 11, supply $16.8V \pm 0.1$ V DC to TP85. Confirm that the HOLD-DOWN circuit doesn't operate.
 14. When above specifications are not satisfied, readjust RV833.
After adjusting, fasten RV833 in place with epoxy.

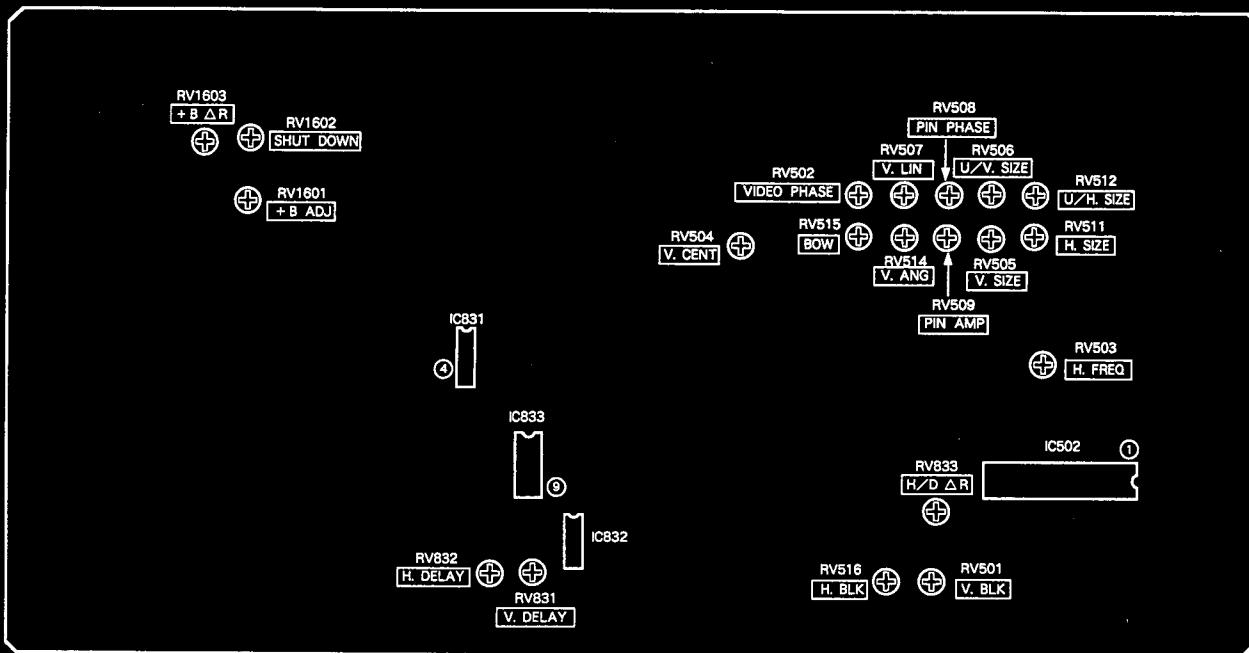


SECTION 5

CIRCUIT ADJUSTMENTS

5-1. D BOARD ADJUSTMENTS

—D BOARD (COMPONENT SIDE)—



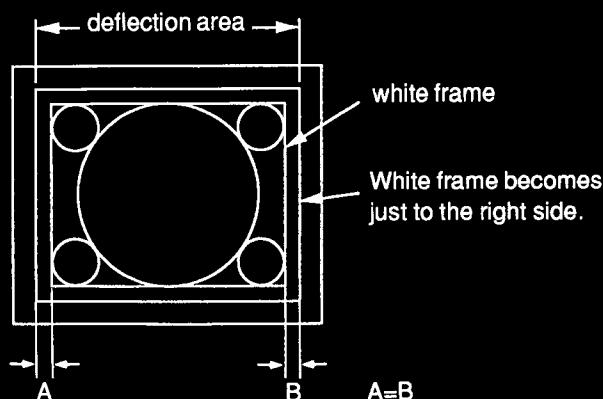
HORIZONTAL OSCILLATION FREQUENCY ADJUSTMENT (RV503)

1. Receive a monoscope signal.
2. Connect pin-① of IC502 to ground with $100\mu\text{F}/16\text{V}$ electrolytic capacitor.
3. Adjust RV503 (H.FREQ) so that the screen streaming to stops.



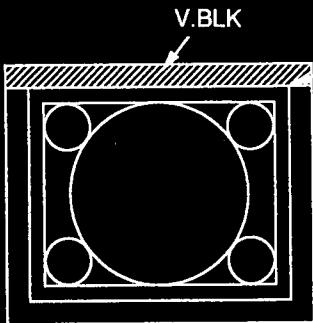
SCREEN PHASE ADJUSTMENTS (RV502, RV512, RV516)

1. Receive a monoscope signal.
2. Set U/S (Under Scan) switch to Under mode.
3. • CONTRAST Minimum
• BRIGHTNESS Maximum.
4. Adjust RV512 (U/H. SIZE) so that the white frame of monoscope signal becomes visible.
5. Adjust RV516 (H.BLK) for minimum BLKG width so that all the deflection area becomes visible.
6. Adjust RV502 (VIDEO PHASE) so that the monoscope's white frames should have equal width.



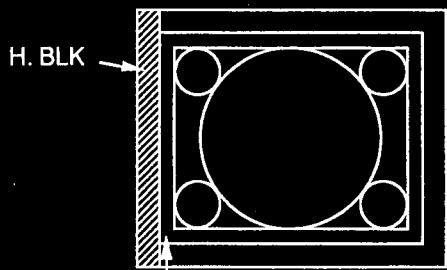
H.V BLK ADJUSTMENTS (RV501, RV516)

1. Receive a monoscope signal.
2. Set U/S (Under Scan) switch to Under mode.
3. • CONTRAST Minimum
• BRIGHTNESS Maximum.
4. V. BLK Adjustment (RV501)
 - (1) Adjust RV501(V. BLK) so that the upper side white frame of monoscope signal is not blanked.



Make not to blank the upper side white frame of monoscope signal.

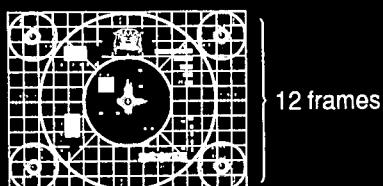
5. H. BLK Adjustment (RV516)
 - (1) Adjust with RV516(H. BLK) so that the left end white vertical line of the white frame of monoscope signal is not blanked as following figure.



Make not to blank the left end white vertical line of the white frame of monoscope signal.

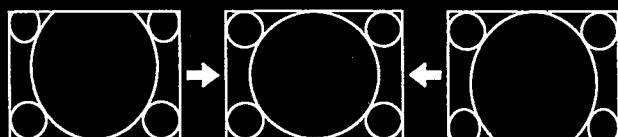
VERTICAL DEFLECTION PART ADJUSTMENTS (RV504, RV505, RV506, RV507)

1. Receive a monoscope signal.
2. • CONTRAST 70%
• BRIGHTNESS 50%
3. Adjust RV505 (V. SIZE) so that the vertical size of monoscope signal becomes 12 frames.

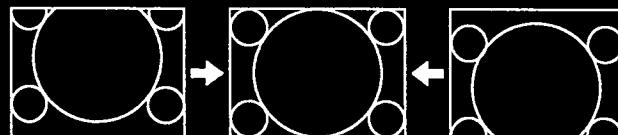


12 frames

4. Adjust RV507 (V.LIN) the vertical linearity.

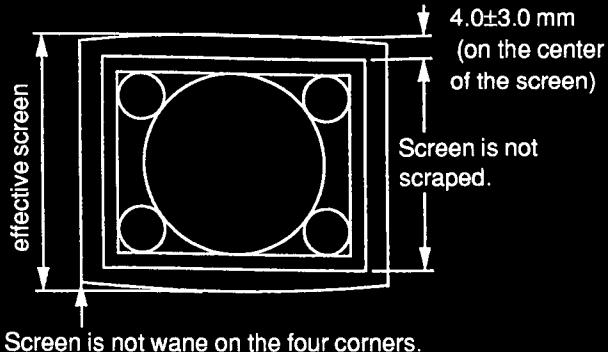


5. Adjust RV504 (V. CENT) the vertical position.



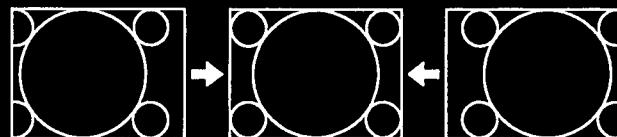
6. V. SIZE ADJUSTMENT (RV505)

- (1) Adjust RV505 (V. SIZE) so that the vertical size of monoscope signal becomes 11.75 ± 0.2 frames.
7. V.SIZE IN UNDERSCAN MODE ADJUSTMENT (RV506)
 - (1) Set U/S (Under Scan) switch to Under mode.
 - (2) Adjust the Under V.SIZE with RV506 (U/V. SIZE) as follows.



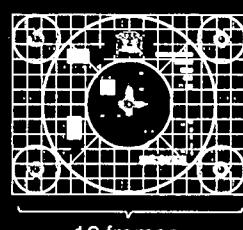
HORIZONTAL DEFLECTION PART ADJUSTMENTS (RV508, RV509, RV511, RV514, RV515, RV801/P board)

1. Receive a monoscope signal.
2. • CONTRAST 70%
• BRIGHTNESS 50%
3. H. CENT Adjustment (RV801 on P board)
 - (1) Adjust RV801 on P board (H. CENT) the horizontal position.



4. H. SIZE Adjustment (RV511)

- (1) Adjust RV511 (H. SIZE) the horizontal size of 16 frames of monoscope signal.

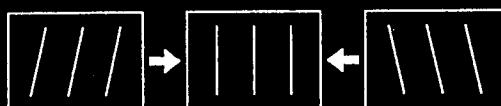


16 frames

5. PIN AMP, PIN PHASE, V. ANG, BOW ADJUSTMENTS (RV508 RV509, RV514, RV515)

Adjust RV514(V. ANG) and RV515(BOW) to correct vertical angular distortion and bow distortion. Adjust RV509(PIN AMP) and RV508(PIN PHASE) so that vertical lines become straight.

- V. ANG (RV514)



- BOW (RV515)



- PIN AMP (RV509)



- PIN PHASE (RV508)

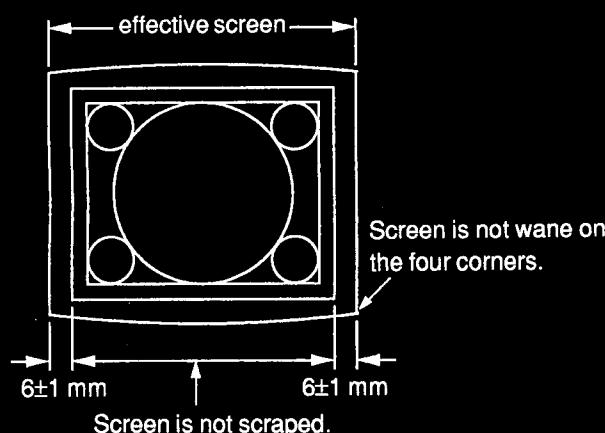


6. H. SIZE ADJUSTMENT (RV511)

- (1) Adjust RV511 (H. SIZE) so that the horizontal size becomes 16 ± 0.2 frames.

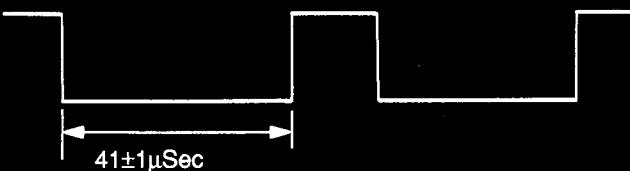
7. UNDERSCAN MODE H.SIZE ADJUSTMENT (RV512)

- (1) Set U/S (Under Scan) switch to Under mode.
- (2) Adjust RV512 (U/H. SIZE) the Under H. SIZE as shown in the figure.

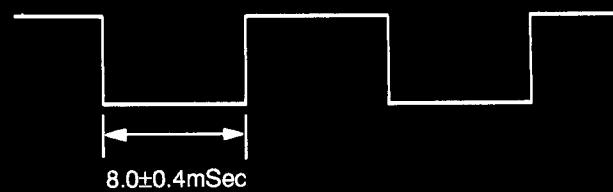


H V DELAY ADJUSTMENT (RV831, RV832)

1. Receive a monoscope signal.
2. • CONTRAST 70%
- BRIGHTNESS 50%
3. Set H V DELAY switch to DELAY mode.
4. H. DELAY Adjustment (RV832)
 - (I) Connect an oscilloscope to pin-④ of IC831.
 - (2) Adjust RV832 (H. DELAY) to becomes $41 \pm 1 \mu\text{sec}$.



5. V. DELAY Adjustment (RV831)
 - (I) Connect an oscilloscope to pin-⑨ of IC833.
 - (2) Adjust RV831 to become $8.0 \pm 0.4 \text{ msec}$ as follows.



SHUT-DOWN VOLTAGE ADJUSTMENT (RV1602)

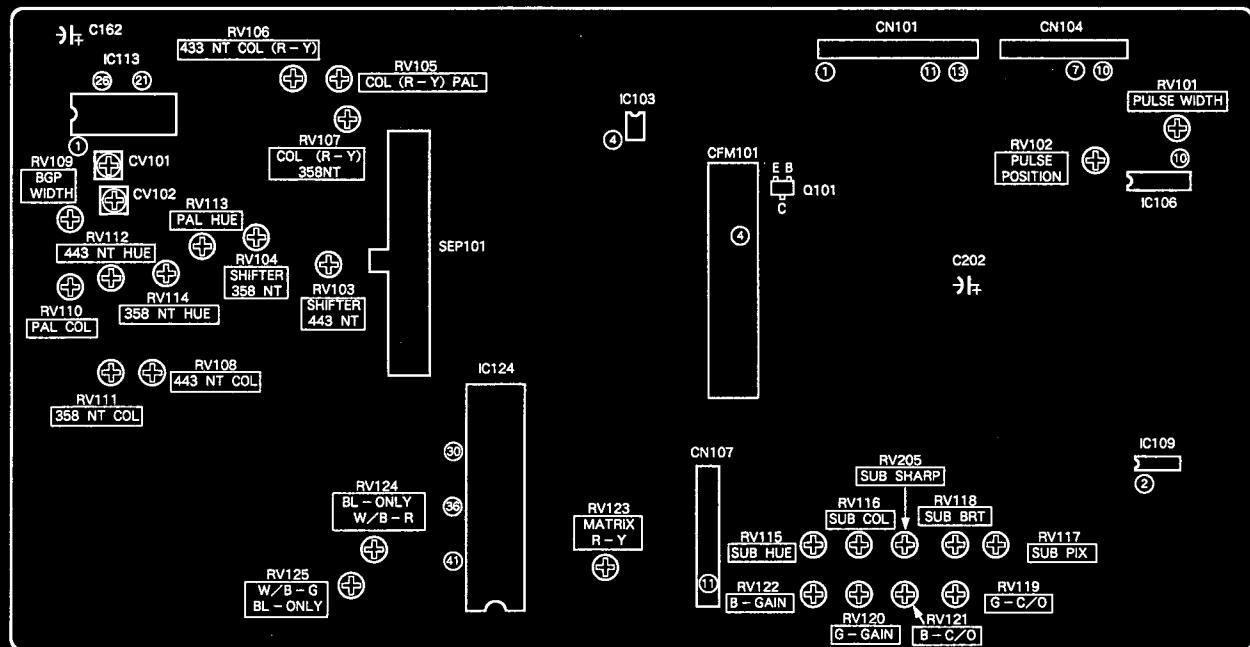
1. Fully rotate RV1602 in the direction that does not shut-down.
2. Supply a $9.4V \pm 0.1V$ voltage to the C1602 side of L1602 on the D board.
3. Turn AC power switch ON.
4. Rotate D board RV1602 (SHT DOWN) slowly to the point that shuts-down the unit.

B+ VOLTAGE DURING DC OPERATE MODE, ADJUSTMENT (RV1601)

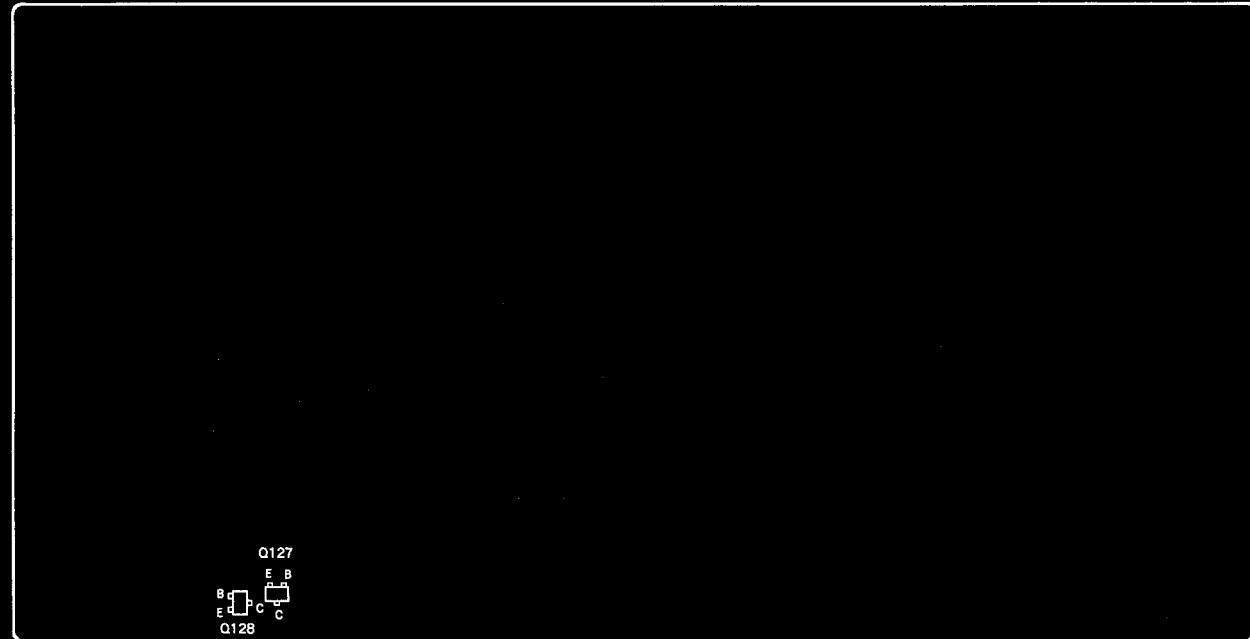
1. Supply DC12V ± 0.2 V to DC 12V IN connector.
2. Receive a monoscope signal.
3. • CONTRAST 80%
- BRIGHTNESS 50%
4. Connect a digital voltmeter to C1605 + positive side on D board.
5. Adjust RV1601 on the D board for 40.0 ± 0.1 V DC.

B BOARD ADJUSTMENT

-B BOARD (COMPONENT SIDE)-

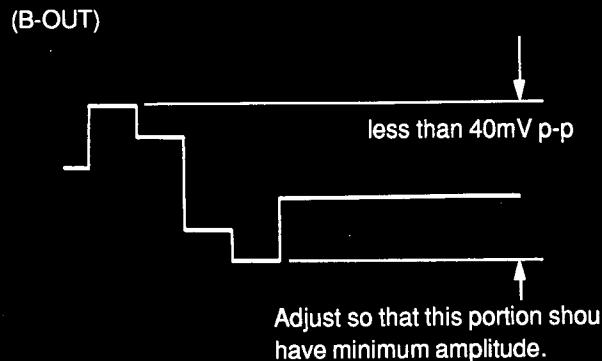


-B BOARD (CONDUCTOR SIDE)-

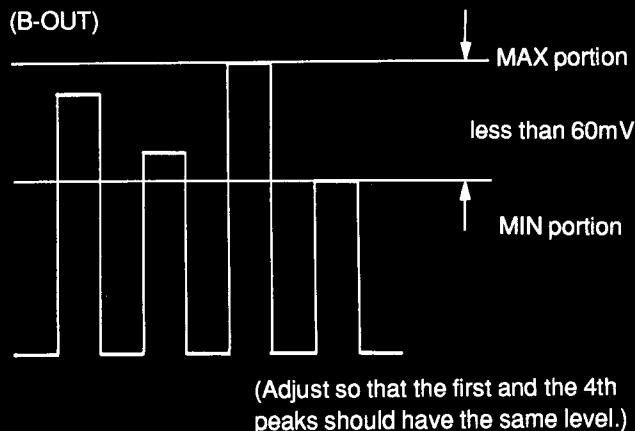


**PRIMARY COLOR MATRIX ADJUSTMENT
(RV115, RV116, RV123)**

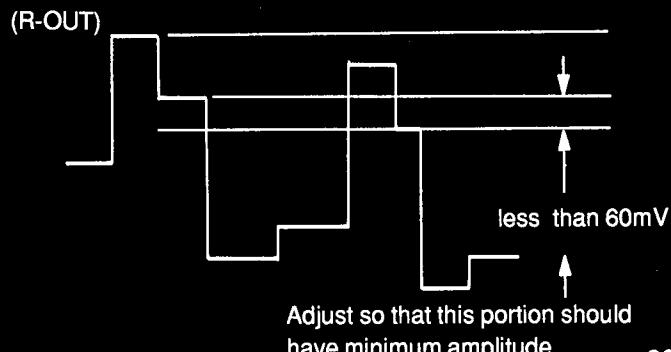
- Supply component color bar signal (75% chroma color bar) to the equipment so that Y signal is supplied to EXT SYNC and R-Y signal to R-Y connectors. Operate the equipment in external sync mode.
- Connect oscilloscope to IC124 pin-⑩ (B-OUT).
- Adjust RV115 (SUB HUE) to obtain the Blue output as shown in figure.



- Supply component color bar signal (75% color bar) to the component input connector to feed R-Y and B-Y signals. Operate the equipment in internal SYNC mode.
- Connect oscilloscope to IC124 pin-⑩ (SUB-COL). Adjust RV116 (SUB-COL) so that waveform peaks should have the same level.

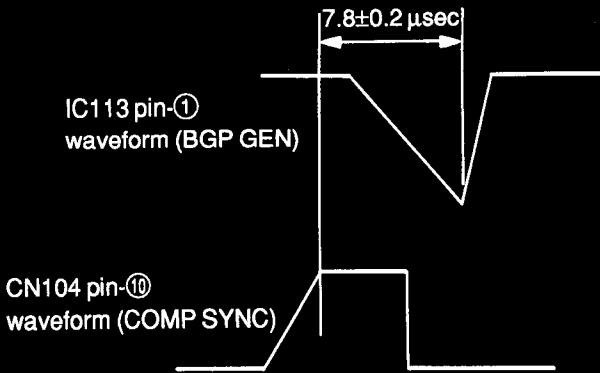


- Connect oscilloscope to IC124 pin-⑪ (R-OUT).
- Adjust RV123 ((R-Y)-IN) so that waveform peaks should have the same level.



BURST GATE PULSE WIDTH ADJUSTMENT (RV109)

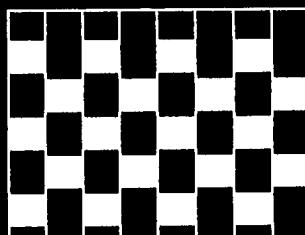
- Receive color bar signal.
- Connect dual trace oscilloscope to CN104 connector pin-⑩ (COMP-SYNC) and IC113 (M51279) pin-① (BGP-WIDTH). Adjust RV109 (BGP-WIDTH) to obtain the relationship as shown in the figure.



VFO ADJUSTMENT (CV101,CV102)

- 3.58MHz VFO adjustment (CV101)
 - Receive NTSC color bar signal.
 - Connect +5V power line to IC113 pin-⑬ (ID-FILT-REF) via a 4700Ω resistor.
 - Ground IC109 pin-② by connecting it to ground.
 - Ground C162 – negative side by connecting it to ground.
 - Connect frequency counter to IC113 pin-⑪. Adjust CV101 (358FO) for $3579545\pm20\text{Hz}$. (This adjustment can be alternatively done by observing screen as below.)

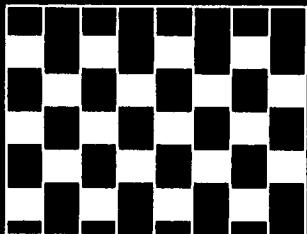
Adjust color synchronization by CV101 (358FO).



Adjust so that color stripes disappear and the hue change is stabilized extremely.

2. 4.43MHz VXO adjustment (CV102)
 - (1) Receive PAL colour bar signal.
 - (2) Connect +12V power line to IC109 pin-②.
 - (3) Connect frequency counter to IC113 pin-①. Adjust CV102 (443FO) for $4433619 \pm 20\text{Hz}$.
(This adjustment can be alternatively done by observing screen as below.)

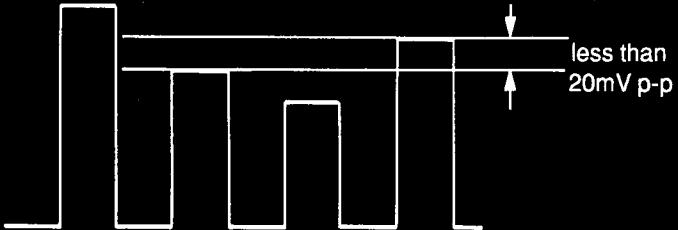
Adjust colour synchronization by CV102(443FO).



Adjust so that colour stripes disappear and the hue change is stabilized extremely.

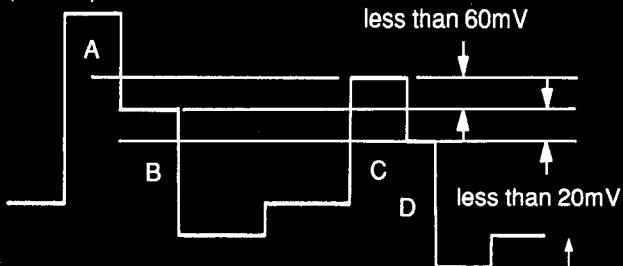
2. NTSC 3.58MHz - COLOR adjustment (RV111)
 - (1) Receive NTSC 3.58 color bar signal.
 - (2) Connect an oscilloscope to IC124 pin-⑩ (B-OUT).
 - (3) Adjust RV111(358NT-COL) so that waveform peaks should have the same level (most flat).

(Adjust so that the first and the 4th peaks should have the same level.)



3. NTSC 3.58MHz - COLOR (R-Y) adjustment (RV104, RV107)
 - (1) Receive the color bar signal.
 - (2) Connect an oscilloscope to the Q127 emitter (R-Y OUT), and adjust RV104 (358NT-SHIFT) so that the output of the burst section (B-Y axis signal output) becomes 0.
 - (3) Connect an oscilloscope to IC124 pin-④ (R-OUT). Adjust RV107 (358NT-COL (R-Y)) so that the level difference should be minimum.

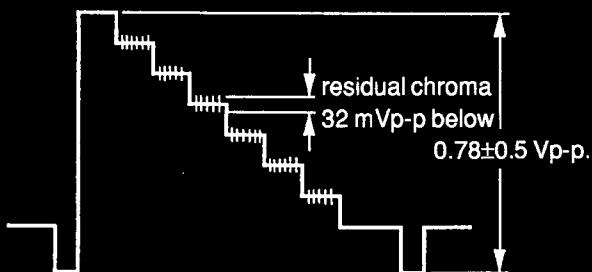
(R-OUT)



(Adjust for B=D. [less than 20mV] Also level difference between B and C should be less than 60mV.)

NTSC COMB FILTER ADJUSTMENT (RV1,T1/CFM101 BOARD)

1. Receive NTSC 3.58 color bar signal.
2. Connect an oscilloscope to C202 – negative side.
3. Confirm the Y OUT is $0.78 \pm 0.5 \text{ Vp-p}$.
4. Confirm the residual chroma is 32 mVp-p below. If it is above 35 mVpp , adjust with RV1 and T1 on CFM201 board while tracking.

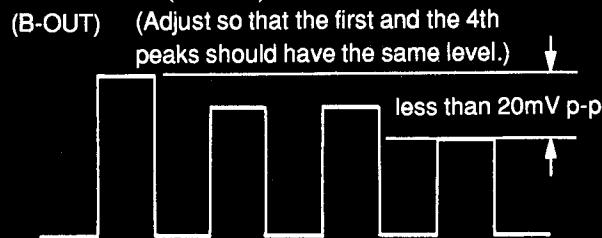


NTSC COLOR DEMODULATION ADJUSTMENT (RV114,RV111, RV104, RV107)

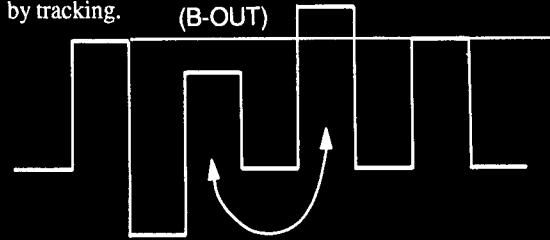
1. NTSC 3.58MHz - HUE adjustment (RV114)
 - (1) Supply NTSC color bar signal including burst and R-Y component.
(For example, Tektronix 1410SG output color bar signal with B-Y component removed.)
 - (2) Connect an oscilloscope to Q128 emitter (B-Y OUT).
 - (3) Adjust RV114 (358NT - HUE) so that all the waveform peaks should have equal amplitude (look flat) except burst. (Level difference should be less than 10mV p-p.)

**NTSC 4.43MHZ COLOR DEMODULATION
ADJUSTMENT(RV108,RV112,RV103,RV106)**

1. NTSC 4.43MHz - COLOR adjustment (RV108,RV112)
 - (1) Receive NTSC 4.43 color bar signal (75% color bar).
 - (2) Connect an oscilloscope to IC124 pin-⑩ (B-OUT).
 - (3) Adjust RV108 (443NT-COL) so that waveform peaks should have the same level (most flat).



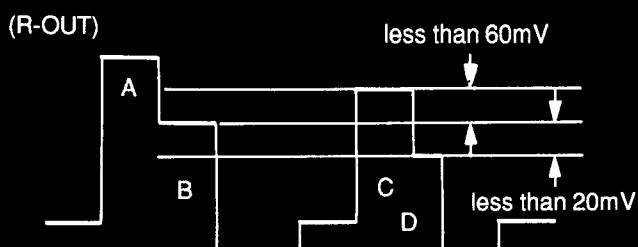
- (4) When cyan and magenta have level difference, adjust RV112 (443NT-HUE) and RV108(443NT-COL) alternatively to remove, by tracking.



When cyan and magenta have level difference, adjust RV112 and RV108 alternatively to remove.

2. NTSC 4.43MHz - COLOR (R-Y) adjustment (RV103, RV106)

- (1) Receive the NTSC 4.43 color bar signal (75%, chroma color bar).
- (2) Connect an oscilloscope to the Q127 emitter (R-Y OUT), and adjust RV103(443NT-SHIFT) so that the output of the burst section (B-Y axis signal output) becomes 0.
- (3) Connect an oscilloscope to IC124 pin-④ (R-OUT). Adjust RV106 (443NT-COL (R-Y)) so that the level difference should be minimum.

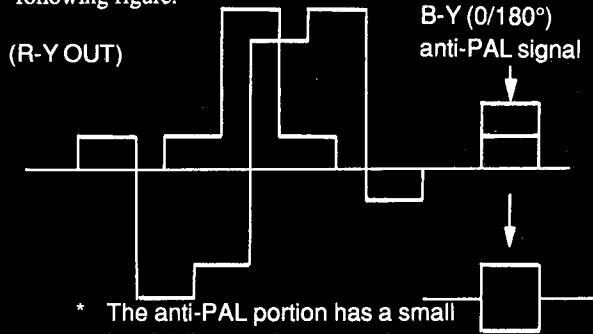


(Adjust for B=D. [less than 20mV] Also level difference between B and C should be less than 60mV.)

**PAL COLOR DEMODULATION ADJUSTMENT
(RV113,RV2/SEP101, RV110,RV105,RV205)**

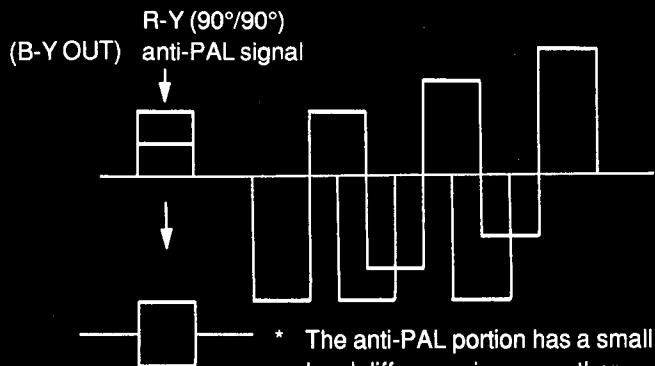
1. PAL PHASE Adjustment (RV113,RV2/SEP101)

- (1) Receive the special PAL color-bar.
- (2) Connect an oscilloscope to emitter of Q127 (R-Y OUT).
- (3) Adjust RV113 (PAL-PHASE) so that B-Y (0/180°) anti-PAL portion (in the R-Y demodulated output) becomes "0" (flat) as following figure.



* The anti-PAL portion has a small level difference in every other horizontal period. So, adjust so that average becomes "0".

- (4) Connect an oscilloscope to emitter of Q128 (B-Y OUT).
- (5) Adjust RV2 inside SEP101 so that R-Y (90°/90°) anti-PAL portion (in B-Y demodulated output) becomes "0" (flat) as following figure.



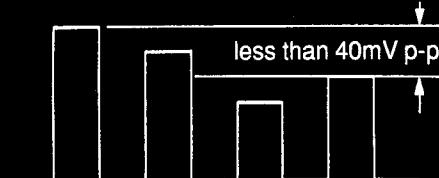
* The anti-PAL portion has a small level difference in every other horizontal period. So, adjust so that average becomes "0".

For the adjustments of (3) and (5), it is also possible to set the color level to MAX with the chroma adjusting knob of the unit and erase the color of the anti-pal signal section.

2. PAL COLOR ADJUSTMENT (RV110)

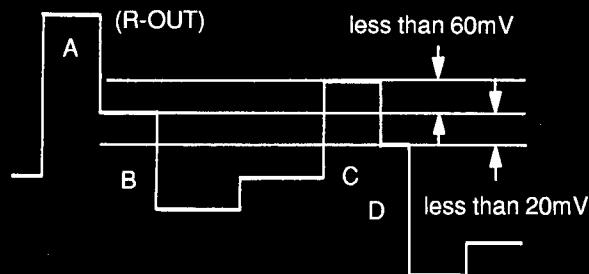
- (1) Receive PAL color bar signal (75% color bar).
- (2) Connect an oscilloscope to IC124 pin-⑩ (B-OUT).
- (3) Adjust RV110 (PAL-COL) so that waveform peaks should have the same level (most flat).

(B-OUT) (Adjust so that the first and the 4th peaks should have the same level.)



3. PAL-COLOR-(R-Y) ADJUSTMENT (RV105)

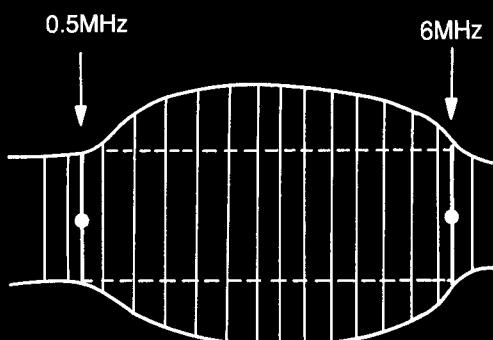
- (1) Connect an oscilloscope to IC124 pin-⑪ (R-OUT).
- (2) Adjust RV105 (PAL-COL-(R-Y)) so that waveform peaks should have the same level (most flat).



(Adjust for B=D. [less than 20mV] Also level difference between B and C should be less than 60mV.)

SUB-SHARP ADJUSTMENT (RV205)

- (1) Receive a sweep signal (or multi-burst).
- * • Bandwidth should be more than 10MHz (flat).
• Composite sync should be included.
• Turn burst off.
- (2) Connect an oscilloscope to IC124 pin-⑬ (G-OUT).
- (3) Adjust RV205 (SUB-SHARP) as shown.



Example of sweep signal output waveform

[specification]

$6\text{MHz}/0.5\text{MHz} = 0 \pm 0.5\text{dB}$

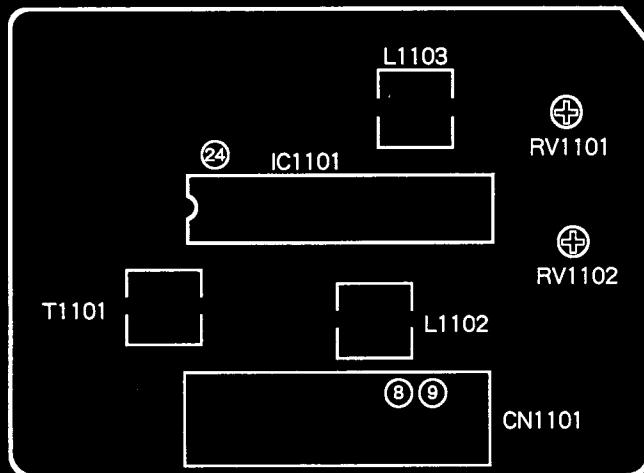
CHROMA H PULSE POSITION ADJUSTMENT (RV101, RV102)

- (1) Receive the SECAM color bar signal.
(The left edge of the screen should not be colored.)
- (2) Set to the under-scan mode.
- (3) Adjust RV101 (PLUSE-WIDTH) until the point immediately before the color on the left edge of the screen disappears.
- (4) Release the under-scan mode.
- (5) Set the HV DELAY mode.
- (6) Adjust RV102 (PULSE-POSI) until the point immediately before the rising color of the image after back porch disappears.

Note : If image phase adjustment or HV DELAY amount adjustment during HV DELAY is performed after completing the adjustment in this section, re-adjustments will be required. Therefore, performed this adjustment after the two mentioned have been performed.

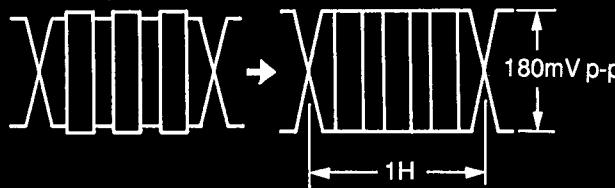
S BOARD ADJUSTMENTS

—S BOARD (COMPONENT SIDE)—

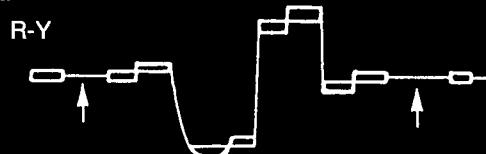


SECAM (T1101,L1102,L1103)

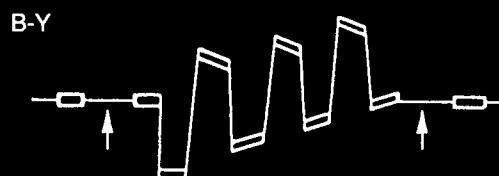
1. Receive SECAM color-bar.
2. Bell Filter Adjustment (T1101)
 - (1) Connect an oscilloscope to IC1101 pin-②.
 - (2) Adjust T1101 (Bell Filter) so that the chroma waveform becomes smooth. (Uneven level should be minimum.)



3. Color Balance Adjustment (L1102,L1103)
 - (1) Connect an oscilloscope to pin-⑨ (R-Y) of CN1101 connector.
 - (2) Adjust L1102 (R-Y) so that the non-colored portion level becomes flat.



- (3) Connect an oscilloscope to pin-⑧ (B-Y) of CN1101 connector.
- (4) Adjust L1103 (B-Y) so that the non-colored portion level becomes flat.

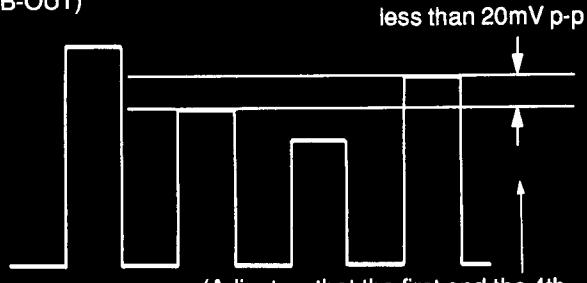


- (5) When adjusting the color level of the unit to MAX or MIN using the chroma adjusting knob, check that the white balance of the colorless section does not change.

DEMODULATION LEVEL ADJUSTMENT (RV1101,RV1102)

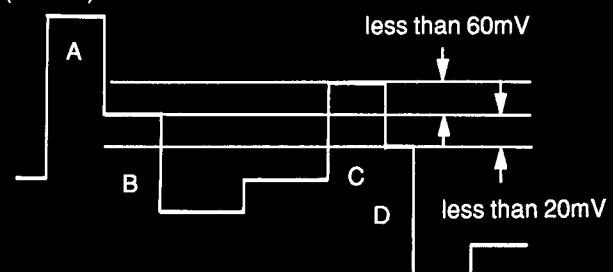
1. Receive SECAM color-bar.
2. Connect an oscilloscope to IC124 pin-⑩ (B-OUT).
3. Adjust S board RV1101 (SEC-COL) so that waveform peaks should have the same level (most flat).

(B-OUT)



4. Connect an oscilloscope to IC124 pin-④ (R-OUT).
5. Adjust S board RV1102 (SEC-COL (R-Y)) so that the level difference should be minimum.

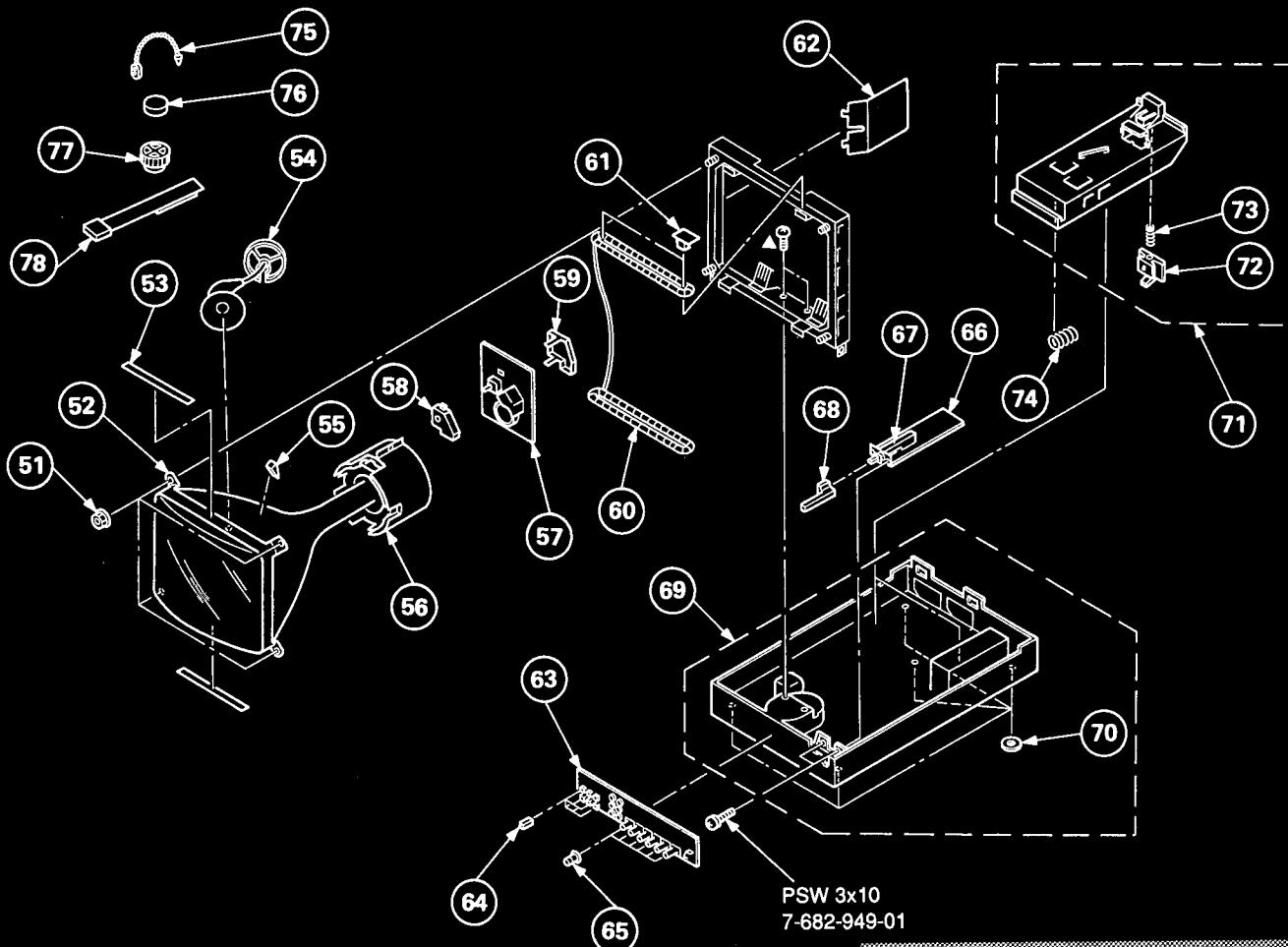
(R-OUT)



(Adjust for B=D. [less than 20mV] Also level difference between B and C should be less than 60mV.)

7-2. PICTURE TUBE

▲ : BVTP3x12 7-685-648-79



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	4-304-511-01	FLANGE NUT, 5MM		66	*1-641-723-11	FA BOARD	
52	▲ 8-737-151-05	CRT (A20JKU10X) (PVM-8041Q ONLY)		67	1-692-049-11	SWITCH, PUSH (AC POWER) (1KEY)	
53	▲ 8-737-651-05	CRT (K20JNP10X) (PVM-8044Q ONLY)		68	4-034-841-01	SWITCH, POWER	
54	*4-034-856-01	CLOTH, PROTECTION		69	*X-4030-166-1	CHASSIS ASSY, BOTTOM	70
55	4-309-369-03	HOLDER, HV CABLE		70	4-034-840-01	RUBBER, FOOT	
56	▲ 1-451-319-22	DEFLECTION YOKE (Y9FXC)		71	*X-4030-163-1	GUIDE ASSY, BATTERY	72, 73
57	*1-641-720-11	CA BOARD		72	4-034-861-01	KNOB, BATTERY	
58	*4-376-133-11	COVER (MAIN), CV VOL		73	4-876-347-01	SPRING, COMPRESSION	
59	*4-376-132-11	COVER (REAR LID), CV VOL		74	3-669-594-00	SPRING, COMPRESSION	
60	1-426-043-00	COIL, DEGAUSSING		75	4-308-870-00	CLIP, LEAD WIRE	
61	4-380-534-01	CAP, DGC		76	1-452-126-11	MAGNET	
62	*4-034-850-02	INSULATOR		77	1-452-094-00	MAGNET, ROTATABLE DISK: 15MM φ	
63	*A-1371-782-A	HA BOARD, COMPLETE		78	X-4308-815-8	PERMALLOY ASSY, CONVERGENCE	
64	4-034-849-01	SWITCH (SMALL), PUSH					
65	X-4030-162-1	KNOB ASSY, CONTROL					

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 spécifié.

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

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

RESISTORS

- All resistors are in ohms

F: nonflammable

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

CAPACITORS

MF: μF , PF: $\mu\mu\text{F}$

- MMH: mH, UH: μH
- The components identified by \blacksquare in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.

Should replacement be required, replace only with the value originally used.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
A-1135-700-A	B BOARD, COMPLETE			C142	1-163-031-11	CERAMIC CHIP 0.01MF	50V
	*****			C143	1-163-121-00	CERAMIC CHIP 150PF	5% 50V
3-710-578-01	COVER, VOLUME, 6 MOLD			C144	1-163-101-00	CERAMIC CHIP 22PF	5% 50V
				C145	1-163-131-00	CERAMIC CHIP 390PF	5% 50V
				C146	1-126-157-11	ELECT 10MF	20% 16V
		<BAND PASS FILTER>		C147	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
BPF101	1-236-363-11	FILTER, BAND PASS		C148	1-126-160-11	ELECT 1MF	20% 50V
BPF102	1-236-364-11	FILTER, BAND PASS		C149	1-163-022-00	CERAMIC CHIP 0.012MF	10% 50V
				C150	1-124-589-11	ELECT 47MF	20% 16V
				C151	1-163-131-00	CERAMIC CHIP 390PF	5% 50V
		<CAPACITOR>		C152	1-163-101-00	CERAMIC CHIP 22PF	5% 50V
C101	1-124-589-11	ELECT 47MF	20% 16V	C153	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C102	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C154	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C103	1-126-320-11	ELECT 10MF	20% 16V	C155	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C104	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C156	1-164-299-11	CERAMIC CHIP 0.22MF	10% 25V
C105	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C157	1-163-229-11	CERAMIC CHIP 12PF	5% 50V
C106	1-124-477-11	ELECT 47MF	20% 16V	C158	1-124-477-11	ELECT 47MF	20% 16V
C107	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C159	1-163-229-11	CERAMIC CHIP 12PF	5% 50V
C108	1-124-477-11	ELECT 47MF	20% 16V	C160	1-163-229-11	CERAMIC CHIP 12PF	5% 50V
C109	1-124-477-11	ELECT 47MF	20% 16V	C161	1-124-902-00	ELECT 0.47MF	20% 50V
C110	1-124-120-11	ELECT 220MF	20% 16V	C162	1-124-903-11	ELECT 1MF	20% 50V
C111	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C163	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V
C112	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C164	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V
C113	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C165	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C114	1-124-477-11	ELECT 47MF	20% 16V	C166	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C115	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C167	1-124-477-11	ELECT 47MF	20% 16V
C116	1-124-477-11	ELECT 47MF	20% 16V	C168	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C117	1-124-477-11	ELECT 47MF	20% 16V	C169	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C118	1-124-477-11	ELECT 47MF	20% 16V	C170	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C119	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C171	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C120	1-124-477-11	ELECT 47MF	20% 16V	C172	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C121	1-124-477-11	ELECT 47MF	20% 16V	C173	1-124-589-11	ELECT 47MF	20% 16V
C122	1-124-477-11	ELECT 47MF	20% 16V	C174	1-124-477-11	ELECT 47MF	20% 16V
C123	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C175	1-108-792-11	MYLAR 0.001MF	5% 50V
C124	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C176	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C125	1-124-477-11	ELECT 47MF	20% 16V	C177	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C126	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C178	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C127	1-124-477-11	ELECT 47MF	20% 16V	C179	1-126-160-11	ELECT 1MF	20% 50V
C128	1-124-477-11	ELECT 47MF	20% 16V	C180	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C129	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C181	1-126-154-11	ELECT 47MF	20% 6.3V
C130	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C182	1-126-163-11	ELECT 4.7MF	20% 16V
C131	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C183	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C132	1-124-589-11	ELECT 47MF	20% 16V	C184	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C133	1-124-589-11	ELECT 47MF	20% 16V	C185	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C134	1-163-275-11	CERAMIC CHIP 0.001MF	5%	C186	1-163-099-00	CERAMIC CHIP 18PF	5% 50V
C135	1-163-113-00	CERAMIC CHIP 68PF	5%	C187	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C136	1-163-115-00	CERAMIC CHIP 82PF	5%	C188	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C137	1-124-589-11	ELECT 47MF	20% 16V	C189	1-163-035-00	CERAMIC CHIP 0.047MF	50V
C138	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C190	1-163-121-00	CERAMIC CHIP 150PF	5% 50V
C139	1-163-688-91	CERAMIC CHIP 0.001MF	5%	C191	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C140	1-163-141-00	CERAMIC CHIP 0.001MF	5%				
C141	1-163-141-00	CERAMIC CHIP 0.001MF	5%				

B

REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
C192	1-163-031-11	CERAMIC CHIP	0.01MF		50V	C258	1-163-129-00	CERAMIC CHIP	330PF	5%	50V
C193	1-124-589-11	ELECT	47MF	20%	16V	C259	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C194	1-124-589-11	ELECT	47MF	20%	16V	C260	1-124-465-00	ELECT	0.47MF	20%	50V
C195	1-124-589-11	ELECT	47MF	20%	16V	C261	1-137-193-11	FILM	0.39MF	5%	50V
C196	1-124-589-11	ELECT	47MF	20%	16V	C262	1-124-465-00	ELECT	0.47MF	20%	50V
C197	1-124-589-11	ELECT	47MF	20%	16V	C264	1-163-123-00	CERAMIC CHIP	180PF	5%	50V
C198	1-124-589-11	ELECT	47MF	20%	16V	C265	1-163-129-00	CERAMIC CHIP	330PF	5%	50V
C199	1-124-589-11	ELECT	47MF	20%	16V	C266	1-126-320-11	ELECT	10MF	20%	16V
C202	1-124-589-11	ELECT	47MF	20%	16V	C267	1-126-320-11	ELECT	10MF	20%	16V
C203	1-124-589-11	ELECT	47MF	20%	16V	C268	1-124-477-11	ELECT	47MF	20%	16V
C204	1-124-589-11	ELECT	47MF	20%	16V	C269	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C205	1-163-101-00	CERAMIC CHIP	22PF	5%	50V	C270	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C206	1-164-298-11	CERAMIC CHIP	0.15MF	10%	25V	C271	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V
C207	1-164-298-11	CERAMIC CHIP	0.15MF	10%	25V	C272	1-163-129-00	CERAMIC CHIP	330PF	5%	50V
C208	1-163-101-00	CERAMIC CHIP	22PF	5%	50V	C273	1-163-129-00	CERAMIC CHIP	330PF	5%	50V
C209	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C274	1-124-477-11	ELECT	47MF	20%	16V
C210	1-124-589-11	ELECT	47MF	20%	16V	C275	1-163-119-00	CERAMIC CHIP	120PF	5%	50V
C211	1-124-589-11	ELECT	47MF	20%	16V	C277	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C212	1-124-589-11	ELECT	47MF	20%	16V	C278	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V
C213	1-124-589-11	ELECT	47MF	20%	16V	C279	1-126-157-11	ELECT	10MF	20%	16V
C214	1-126-157-11	ELECT	10MF	20%	16V	C280	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C215	1-126-157-11	ELECT	10MF	20%	16V	C281	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C216	1-126-157-11	ELECT	10MF	20%	16V	C282	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C217	1-163-031-11	CERAMIC CHIP	0.01MF		50V	C283	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C218	1-164-298-11	CERAMIC CHIP	0.15MF	10%	25V	C299	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C219	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	C300	1-126-157-11	ELECT	10MF	20%	16V
C220	1-163-031-11	CERAMIC CHIP	0.01MF		50V	C301	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V
C221	1-124-903-11	ELECT	1MF	20%	50V	C302	1-124-589-11	ELECT	47MF	20%	16V
C222	1-163-093-00	CERAMIC CHIP	10PF	5%	50V	C303	1-126-157-11	ELECT	10MF	20%	16V
C223	1-163-031-11	CERAMIC CHIP	0.01MF		50V	C304	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C225	1-124-477-11	ELECT	47MF	20%	16V	C305	1-124-257-00	ELECT	2.2MF	20%	50V
C226	1-163-031-11	CERAMIC CHIP	0.01MF		50V	C306	1-163-115-00	CERAMIC CHIP	82PF	5%	50V
C227	1-163-038-00	CERAMIC CHIP	0.1MF		25V	C307	1-163-145-00	CERAMIC CHIP	0.0015MF	5%	50V
C228	1-163-986-00	CERAMIC CHIP	0.027MF	10%	25V	C308	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C229	1-163-031-11	CERAMIC CHIP	0.01MF		50V	C309	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C230	1-163-038-00	CERAMIC CHIP	0.1MF		25V	C310	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C231	1-163-986-00	CERAMIC CHIP	0.027MF	10%	25V	C312	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C232	1-163-031-11	CERAMIC CHIP	0.01MF		50V	C313	1-163-115-00	CERAMIC CHIP	82PF	5%	50V
C233	1-163-031-11	CERAMIC CHIP	0.01MF		50V	C314	1-126-157-11	ELECT	10MF	20%	16V
C234	1-163-038-00	CERAMIC CHIP	0.1MF		25V	C315	1-164-299-11	CERAMIC CHIP	0.22MF	10%	25V
C235	1-163-986-00	CERAMIC CHIP	0.027MF	10%	25V	C316	1-126-157-11	ELECT	10MF	20%	16V
C236	1-163-031-11	CERAMIC CHIP	0.01MF		50V	C317	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C237	1-163-031-11	CERAMIC CHIP	0.01MF		50V	C318	1-163-095-00	CERAMIC CHIP	12PF	5%	50V
C238	1-164-299-11	CERAMIC CHIP	0.22MF	10%	25V	C319	1-163-095-00	CERAMIC CHIP	12PF	5%	50V
C239	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V	C320	1-163-095-00	CERAMIC CHIP	12PF	5%	50V
C240	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V	C321	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C241	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V	C322	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C242	1-163-113-00	CERAMIC CHIP	68PF	5%	50V	C324	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C243	1-163-031-11	CERAMIC CHIP	0.01MF		50V	C340	1-163-688-91	CERAMIC CHIP	0.001MF	5%	50V
C244	1-163-103-00	CERAMIC CHIP	27PF	5%	50V	C344	1-163-092-00	CERAMIC CHIP	9PF	0.25PF	50V
C245	1-163-105-00	CERAMIC CHIP	33PF	5%	50V	C345	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C246	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V	C346	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C247	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V	C347	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C248	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V	C1293	1-163-119-00	CERAMIC CHIP	120PF	5%	50V
C249	1-126-101-11	ELECT	100MF	20%	16V	C1294	1-163-119-00	CERAMIC CHIP	120PF	5%	50V
C250	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	C1295	1-163-119-00	CERAMIC CHIP	120PF	5%	50V
C251	1-110-364-11	MYLAR	0.1MF	10%	200V	C1296	1-163-115-00	CERAMIC CHIP	82PF	5%	50V
C252	1-123-935-00	ELECT	33MF	20%	160V	C1297	1-163-103-00	CERAMIC CHIP	27PF	5%	50V
C253	1-124-477-11	ELECT	47MF	20%	16V	C1298	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C254	1-163-031-11	CERAMIC CHIP	0.01MF		50V	C1299	1-163-093-00	CERAMIC CHIP	10PF	5%	50V
C255	1-124-477-11	ELECT	47MF	20%	16V	C1300	1-126-160-11	ELECT	1MF	20%	50V
C256	1-163-129-00	CERAMIC CHIP	330PF	5%	50V	C1301	1-126-160-11	ELECT	1MF	20%	50V
C257	1-163-129-00	CERAMIC CHIP	330PF	5%	50V	C1302	1-126-160-11	ELECT	1MF	20%	50V

B

REF.NO.	PART NO.	DESCRIPTION			REMARK		REF.NO.	PART NO.	DESCRIPTION			REMARK
C1303	1-126-160-11	ELECT	1MF	20%	50V		D135	8-719-404-46	DIODE MA110			
		<FILTER BLOCK>					D136	8-719-404-46	DIODE MA110			
CFM101	1-464-880-11	FILTER BLOCK, COM (CFB-2)					D137	8-719-404-46	DIODE MA110			
		<CONNECTOR>					D138	8-719-404-46	DIODE MA110			
CN101	1-506-480-11	PIN, CONNECTOR 15P					D139	8-719-404-46	DIODE MA110			
CN102	*1-564-506-11	PLUG, CONNECTOR 3P					D142	8-719-404-46	DIODE MA110			
CN103	*1-565-503-11	CONNECTOR, BOARD TO BOARD 12P					D143	8-719-404-46	DIODE MA110			
CN104	1-506-477-11	PIN, CONNECTOR 12P					D144	8-719-404-46	DIODE MA110			
CN105	*1-564-509-11	PLUG, CONNECTOR 6P					D145	8-719-404-46	DIODE MA110			
CN106	1-506-473-11	PIN, CONNECTOR 8P					D146	8-719-404-46	DIODE MA110			
CN107	1-506-478-11	PIN, CONNECTOR 13P					D147	8-719-404-46	DIODE MA110			
CN108	*1-564-506-11	PLUG, CONNECTOR 3P					D148	8-719-404-46	DIODE MA110			
		<TRAP MODULE>					D149	8-719-404-46	DIODE MA110			
CTR101	1-236-366-11	MODULE, TRAP					D150	8-719-404-46	DIODE MA110			
CTR102	1-236-365-11	MODULE, TRAP					D151	8-719-404-46	DIODE MA110			
		<TRIMMER>					D152	8-719-404-46	DIODE MA110			
CV101	1-141-245-00	CAP, TRIMMER					D153	8-719-977-20	DIODE DTZ8.2B			
CV102	1-141-245-00	CAP, TRIMMER					D154	8-719-404-46	DIODE MA110			
		<DIODE>					D155	8-719-404-46	DIODE MA110			
D101	8-719-404-46	DIODE MA110					D156	8-719-404-46	DIODE MA110			
D102	8-719-404-46	DIODE MA110					D157	8-719-901-83	DIODE ISS83			
D103	8-719-404-46	DIODE MA110					D158	8-719-901-83	DIODE ISS83			
D104	8-719-404-46	DIODE MA110					D159	8-719-901-83	DIODE ISS83			
D105	8-719-404-46	DIODE MA110					D160	8-719-404-46	DIODE MA110			
D106	8-719-404-46	DIODE MA110					D161	8-719-404-46	DIODE MA110			
D107	8-719-404-46	DIODE MA110					D162	8-719-404-46	DIODE MA110			
D108	8-719-404-46	DIODE MA110					D170	8-719-404-46	DIODE MA110			
D109	8-719-404-46	DIODE MA110					D171	8-719-404-46	DIODE MA110			
D110	8-719-404-46	DIODE MA110					D172	8-719-404-46	DIODE MA110			
D111	8-719-404-46	DIODE MA110					D285	8-719-404-46	DIODE MA110			
D112	8-719-404-46	DIODE MA110					D289	8-719-404-46	DIODE MA110			
D113	8-719-404-46	DIODE MA110					D341	8-719-404-46	DIODE MA110			
D114	8-719-404-46	DIODE MA110					D342	8-719-104-34	DIODE 1S2836			
D115	8-719-404-46	DIODE MA110					D343	8-719-800-76	DIODE ISS226			
D116	8-719-404-46	DIODE MA110					D344	8-719-105-99	DIODE RD6.2M-B1			
D117	8-719-404-46	DIODE MA110					D345	8-719-901-83	DIODE ISS83			
D118	8-719-404-46	DIODE MA110					D346	8-719-901-83	DIODE ISS83			
D119	8-719-404-46	DIODE MA110					D347	8-719-901-83	DIODE ISS83			
D120	8-719-404-46	DIODE MA110					D348	8-719-800-76	DIODE ISS226			
D121	8-719-404-46	DIODE MA110					D349	8-719-800-76	DIODE ISS226			
D122	8-719-404-46	DIODE MA110					D350	8-719-800-76	DIODE ISS226			
D123	8-719-404-46	DIODE MA110					D393	8-719-404-46	DIODE MA110			
D125	8-719-404-46	DIODE MA110										
D126	8-719-404-46	DIODE MA110										
D127	8-719-404-46	DIODE MA110										
D128	8-719-400-18	DIODE MA152WK										
D129	8-719-404-46	DIODE MA110										
D130	8-719-800-76	DIODE ISS226										
D131	8-719-800-76	DIODE ISS226										
D132	8-719-800-76	DIODE ISS226										
D133	8-719-404-46	DIODE MA110										
D134	8-719-404-46	DIODE MA110										
		<DELAY LINE>										
DL101	1-415-632-11	DELAY LINE, Y										
DL102	1-415-633-11	DELAY LINE, Y										
		<IC>										
IC101	8-759-048-09	IC MM1148XF										
IC102	8-759-501-21	IC MM1149XF										
IC103	8-759-501-21	IC MM1149XF										
IC104	8-759-501-21	IC MM1149XF										
IC105	8-759-048-09	IC MM1148XF										
IC106	8-759-009-51	IC MC14538BF										
IC107	8-759-509-57	IC XRU4584BF										
IC108	8-759-509-17	IC XRU4053BF										
IC109	8-759-509-37	IC XRU4070BF										
IC110	8-759-509-17	IC XRU4053BF										
IC111	8-759-509-17	IC XRU4053BF										
IC112	8-759-924-12	IC LM7805CT										

B

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
IC113	8-759-631-08	IC M51279FP		Q123	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC114	8-759-509-13	IC XRU4052BF		Q124	8-729-216-22	TRANSISTOR 2SA1162-G	
IC115	8-759-509-13	IC XRU4052BF		Q125	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC116	8-759-509-05	IC XRU4066BF		Q126	8-729-901-01	TRANSISTOR DTC144EK	
IC117	8-759-711-32	IC NJM2245M		Q127	8-729-216-22	TRANSISTOR 2SA1162-G	
IC118	8-759-711-32	IC NJM2245M		Q128	8-729-216-22	TRANSISTOR 2SA1162-G	
IC119	8-759-711-32	IC NJM2245M		Q129	8-729-901-01	TRANSISTOR DTC144EK	
IC120	8-759-509-05	IC XRU4066BF		Q130	8-729-216-22	TRANSISTOR 2SA1162-G	
IC121	8-759-509-17	IC XRU4053BF		Q131	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC122	8-759-998-98	IC LM358D		Q132	8-729-216-22	TRANSISTOR 2SA1162-G	
IC123	8-759-998-98	IC LM358D		Q133	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC124	8-752-052-62	IC CXA1478S		Q134	8-729-901-01	TRANSISTOR DTC144EK	
IC125	8-759-509-05	IC XRU4066BF		Q135	8-729-920-74	TRANSISTOR 2SC2412K-QR	
IC126	8-759-509-17	IC XRU4053BF		Q136	8-729-907-26	TRANSISTOR IMX1	
IC127	8-759-998-98	IC LM358D		Q137	8-729-907-26	TRANSISTOR IMX1	
IC128	8-759-998-98	IC LM358D		Q138	8-729-907-26	TRANSISTOR IMX1	
IC129	8-759-998-98	IC LM358D		Q139	8-729-216-22	TRANSISTOR 2SA1162-G	
<COIL>							
L101	1-410-470-11	INDUCTOR	10UH	Q143	8-729-920-74	TRANSISTOR 2SC2412K-QR	
L102	1-410-090-41	INDUCTOR	18MMH	Q144	8-729-920-74	TRANSISTOR 2SC2412K-QR	
L103	1-412-002-31	INDUCTOR CHIP	4.7UH	Q145	8-729-920-74	TRANSISTOR 2SC2412K-QR	
L104	1-412-002-31	INDUCTOR CHIP	4.7UH	Q146	8-729-255-12	TRANSISTOR 2SC2551-O	
L105	1-412-002-31	INDUCTOR CHIP	4.7UH	Q147	8-729-255-12	TRANSISTOR 2SC2551-O	
L106	1-410-470-11	INDUCTOR	10UH	Q148	8-729-216-22	TRANSISTOR 2SA1162-G	
L107	1-410-470-11	INDUCTOR	10UH	Q149	8-729-200-17	TRANSISTOR 2SA1091-O	
L108	1-408-418-00	INDUCTOR	56UH	Q150	8-729-920-74	TRANSISTOR 2SC2412K-QR	
L109	1-408-418-00	INDUCTOR	56UH	Q151	8-729-216-22	TRANSISTOR 2SA1162-G	
L110	1-408-418-00	INDUCTOR	56UH	Q152	8-729-200-17	TRANSISTOR 2SA1091-O	
L112	1-408-419-00	INDUCTOR	68UH	Q153	8-729-920-74	TRANSISTOR 2SC2412K-QR	
L113	1-410-947-31	INDUCTOR CHIP	33UH	Q154	8-729-216-22	TRANSISTOR 2SA1162-G	
L114	1-410-947-31	INDUCTOR CHIP	33UH	Q155	8-729-200-17	TRANSISTOR 2SA1091-O	
L115	1-410-947-31	INDUCTOR CHIP	33UH	Q157	8-729-326-11	TRANSISTOR 2SC2611	
L116	1-412-011-31	INDUCTOR CHIP	27UH	Q158	8-729-326-11	TRANSISTOR 2SC2611	
L117	1-412-011-31	INDUCTOR CHIP	27UH	Q159	8-729-326-11	TRANSISTOR 2SC2611	
L118	1-412-011-31	INDUCTOR CHIP	27UH	Q160	8-729-920-74	TRANSISTOR 2SC2412K-QR	
L250	1-410-997-31	INDUCTOR CHIP	2.2UH	Q161	8-729-216-22	TRANSISTOR 2SA1162-G	
L251	1-410-999-11	INDUCTOR CHIP	3.3UH	Q162	8-729-920-74	TRANSISTOR 2SC2412K-QR	
L252	1-410-478-11	INDUCTOR	47UH	Q163	8-729-920-74	TRANSISTOR 2SC2412K-QR	
L300	1-410-482-31	INDUCTOR	100UH	Q164	8-729-901-01	TRANSISTOR DTC144EK	
<TRANSISTOR>							
Q101	8-729-920-74	TRANSISTOR 2SC2412K-QR		Q165	8-729-216-22	TRANSISTOR 2SA1162-G	
Q102	8-729-920-74	TRANSISTOR 2SC2412K-QR		Q166	8-729-216-22	TRANSISTOR 2SA1162-G	
Q103	8-729-920-74	TRANSISTOR 2SC2412K-QR		Q167	8-729-216-22	TRANSISTOR 2SA1162-G	
Q104	8-729-920-74	TRANSISTOR 2SC2412K-QR		Q168	8-729-216-22	TRANSISTOR 2SA1162-G	
Q105	8-729-920-74	TRANSISTOR 2SC2412K-QR		Q170	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q106	8-729-920-74	TRANSISTOR 2SC2412K-QR		Q171	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q107	8-729-920-74	TRANSISTOR 2SC2412K-QR		Q172	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q108	8-729-216-22	TRANSISTOR 2SA1162-G		Q173	8-729-216-22	TRANSISTOR 2SA1162-G	
Q109	8-729-901-01	TRANSISTOR DTC144EK		Q174	8-729-216-22	TRANSISTOR 2SA1162-G	
Q112	8-729-920-74	TRANSISTOR 2SC2412K-QR		Q175	8-729-216-22	TRANSISTOR 2SA1162-G	
Q113	8-729-920-74	TRANSISTOR 2SC2412K-QR		Q176	8-729-216-22	TRANSISTOR 2SA1162-G	
Q114	8-729-216-22	TRANSISTOR 2SA1162-G		Q177	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q115	8-729-920-74	TRANSISTOR 2SC2412K-QR		Q178	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q116	8-729-920-74	TRANSISTOR 2SC2412K-QR		Q179	8-729-901-01	TRANSISTOR DTC144EK	
Q117	8-729-216-22	TRANSISTOR 2SA1162-G		Q190	8-729-216-22	TRANSISTOR 2SA1162-G	
Q118	8-729-920-74	TRANSISTOR 2SC2412K-QR		Q191	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q119	8-729-216-22	TRANSISTOR 2SA1162-G		Q192	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q120	8-729-216-22	TRANSISTOR 2SA1162-G		Q193	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q121	8-729-920-74	TRANSISTOR 2SC2412K-QR		Q194	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q122	8-729-216-22	TRANSISTOR 2SA1162-G		Q195	8-729-216-22	TRANSISTOR 2SA1162-G	
				Q196	8-729-920-74	TRANSISTOR 2SC2412K-QR	
				Q197	8-729-216-22	TRANSISTOR 2SA1162-G	

B

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q198	8-729-216-22	TRANSISTOR 2SA1162-G		R141	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W
Q199	8-729-216-22	TRANSISTOR 2SA1162-G		R142	1-216-073-00	METAL GLAZE	10K 5% 1/10W
Q200	8-729-901-06	TRANSISTOR DTA144EK		R143	1-216-085-00	METAL GLAZE	33K 5% 1/10W
Q201	8-729-216-22	TRANSISTOR 2SA1162-G		R145	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
Q202	8-729-216-22	TRANSISTOR 2SA1162-G		R146	1-216-037-00	METAL GLAZE	330 5% 1/10W
Q203	8-729-216-22	TRANSISTOR 2SA1162-G		R147	1-216-089-00	METAL GLAZE	47K 5% 1/10W
Q204	8-729-216-22	TRANSISTOR 2SA1162-G		R148	1-216-671-11	METAL CHIP	6.8K 0.50% 1/10W
Q205	8-729-216-22	TRANSISTOR 2SA1162-G		R155	1-216-655-11	METAL CHIP	1.5K 0.50% 1/10W
Q206	8-729-216-22	TRANSISTOR 2SA1162-G		R157	1-216-679-11	METAL CHIP	15K 0.50% 1/10W
Q207	8-729-901-01	TRANSISTOR DTC144EK		R158	1-216-677-11	METAL CHIP	12K 0.50% 1/10W
Q208	8-729-216-22	TRANSISTOR 2SA1162-G		R160	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
Q209	8-729-255-12	TRANSISTOR 2SC2551-0		R161	1-216-089-00	METAL GLAZE	47K 5% 1/10W
Q210	8-729-255-12	TRANSISTOR 2SC2551-0		R163	1-216-073-00	METAL GLAZE	10K 5% 1/10W
Q211	8-729-255-12	TRANSISTOR 2SC2551-0		R164	1-216-677-11	METAL CHIP	12K 0.50% 1/10W
Q212	8-729-109-44	TRANSISTOR 2SK94-X4		R165	1-216-107-00	METAL GLAZE	270K 5% 1/10W
Q299	8-729-920-74	TRANSISTOR 2SC2412K-QR		R166	1-216-681-11	METAL CHIP	18K 0.50% 1/10W
<RESISTOR>				R167	1-216-635-11	METAL CHIP	220 0.50% 1/10W
<RESISTOR>				R168	1-216-103-00	METAL GLAZE	180K 5% 1/10W
<RESISTOR>				R169	1-216-033-00	METAL GLAZE	220 5% 1/10W
<RESISTOR>				R170	1-216-089-00	METAL GLAZE	47K 5% 1/10W
JR105	1-216-295-00	METAL GLAZE 0 5% 1/10W		R171	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
JR110	1-216-295-00	METAL GLAZE 0 5% 1/10W		R172	1-216-043-00	METAL GLAZE	560 5% 1/10W
JR118	1-216-295-00	METAL GLAZE 0 5% 1/10W		R173	1-216-093-00	METAL GLAZE	68K 5% 1/10W
JR133	1-216-295-00	METAL GLAZE 0 5% 1/10W		R174	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
JR138	1-216-295-00	METAL GLAZE 0 5% 1/10W		R175	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
JR178	1-216-295-00	METAL GLAZE 0 5% 1/10W		R176	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R101	1-216-089-00	METAL GLAZE 47K 5% 1/10W		R177	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R102	1-216-025-00	METAL GLAZE 100 5% 1/10W		R178	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R103	1-216-091-00	METAL GLAZE 56K 5% 1/10W		R179	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R104	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W		R180	1-216-679-11	METAL CHIP	15K 0.50% 1/10W
R105	1-216-025-00	METAL GLAZE 100 5% 1/10W		R181	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R106	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W		R182	1-216-683-11	METAL CHIP	22K 0.50% 1/10W
R107	1-216-025-00	METAL GLAZE 100 5% 1/10W		R183	1-216-691-11	METAL CHIP	47K 0.50% 1/10W
R108	1-216-113-00	METAL GLAZE 470K 5% 1/10W		R184	1-216-699-11	METAL CHIP	100K 0.50% 1/10W
R109	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W		R185	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R110	1-216-049-00	METAL GLAZE 1K 5% 1/10W		R186	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R111	1-216-063-00	METAL GLAZE 3.9K 5% 1/10W		R187	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R112	1-216-049-00	METAL GLAZE 1K 5% 1/10W		R188	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R113	1-249-401-11	CARBON 47 5% 1/4W F		R189	1-216-103-00	METAL GLAZE	180K 5% 1/10W
R114	1-216-045-00	METAL GLAZE 680 5% 1/10W		R190	1-216-107-00	METAL GLAZE	270K 5% 1/10W
R115	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W		R191	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R117	1-216-073-00	METAL GLAZE 10K 5% 1/10W		R192	1-216-103-00	METAL GLAZE	180K 5% 1/10W
R118	1-216-025-00	METAL GLAZE 100 5% 1/10W		R193	1-216-105-00	METAL GLAZE	220K 5% 1/10W
R119	1-216-647-11	METAL CHIP 680 0.50% 1/10W		R194	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R120	1-216-647-11	METAL CHIP 680 0.50% 1/10W		R195	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R121	1-216-025-00	METAL GLAZE 100 5% 1/10W		R196	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R122	1-216-083-00	METAL GLAZE 27K 5% 1/10W		R197	1-216-671-11	METAL CHIP	6.8K 0.50% 1/10W
R123	1-216-073-00	METAL GLAZE 10K 5% 1/10W		R198	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R124	1-216-073-00	METAL GLAZE 10K 5% 1/10W		R199	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R125	1-216-083-00	METAL GLAZE 27K 5% 1/10W		R200	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R126	1-216-093-00	METAL GLAZE 68K 5% 1/10W		R201	1-216-043-00	METAL GLAZE	560 5% 1/10W
R127	1-216-037-00	METAL GLAZE 330 5% 1/10W		R202	1-216-033-00	METAL GLAZE	220 5% 1/10W
R128	1-216-083-00	METAL GLAZE 27K 5% 1/10W		R203	1-216-045-00	METAL GLAZE	680 5% 1/10W
R129	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W		R204	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R130	1-216-097-00	METAL GLAZE 100K 5% 1/10W		R205	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R131	1-216-089-00	METAL GLAZE 47K 5% 1/10W		R206	1-216-043-00	METAL GLAZE	560 5% 1/10W
R132	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W		R207	1-216-045-00	METAL GLAZE	680 5% 1/10W
R133	1-216-079-00	METAL GLAZE 18K 5% 1/10W		R208	1-216-671-11	METAL CHIP	6.8K 0.50% 1/10W
R134	1-216-645-11	METAL CHIP 560 0.50% 1/10W		R209	1-216-043-00	METAL GLAZE	560 5% 1/10W
R135	1-216-645-11	METAL CHIP 560 0.50% 1/10W		R210	1-216-033-00	METAL GLAZE	220 5% 1/10W
R136	1-216-091-00	METAL GLAZE 56K 5% 1/10W		R211	1-216-099-00	METAL GLAZE	120K 5% 1/10W
R137	1-216-045-00	METAL GLAZE 680 5% 1/10W		R212	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R138	1-216-657-11	METAL CHIP 1.8K 0.50% 1/10W		R213	1-216-043-00	METAL GLAZE	560 5% 1/10W
R139	1-216-079-00	METAL GLAZE 18K 5% 1/10W					
R140	1-216-653-11	METAL CHIP 1.2K 0.50% 1/10W					

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REF. NO.	PART NO.	DESCRIPTION			REMARK		REF. NO.	PART NO.	DESCRIPTION			REMARK	
R214	1-216-043-00	METAL GLAZE	560	5%	1/10W		R280	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R215	1-216-125-00	METAL GLAZE	1.5M	5%	1/10W		R281	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R216	1-216-043-00	METAL GLAZE	560	5%	1/10W		R282	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R217	1-216-033-00	METAL GLAZE	220	5%	1/10W		R283	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R218	1-216-295-00	METAL GLAZE	0	5%	1/10W		R284	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R219	1-216-043-00	METAL GLAZE	560	5%	1/10W		R285	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R220	1-216-043-00	METAL GLAZE	560	5%	1/10W		R286	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R221	1-216-035-00	METAL GLAZE	270	5%	1/10W		R287	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R222	1-216-033-00	METAL GLAZE	220	5%	1/10W		R288	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R223	1-216-073-00	METAL GLAZE	10K	5%	1/10W		R289	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R224	1-216-073-00	METAL GLAZE	10K	5%	1/10W		R290	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R225	1-216-095-00	METAL GLAZE	82K	5%	1/10W		R291	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R226	1-216-073-00	METAL GLAZE	10K	5%	1/10W		R292	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R227	1-216-035-00	METAL GLAZE	270	5%	1/10W		R293	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R228	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W		R295	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R229	1-216-113-00	METAL GLAZE	470K	5%	1/10W		R296	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	
R230	1-216-081-00	METAL GLAZE	22K	5%	1/10W		R297	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W	
R231	1-216-113-00	METAL GLAZE	470K	5%	1/10W		R298	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R232	1-216-105-00	METAL GLAZE	220K	5%	1/10W		R300	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R233	1-216-073-00	METAL GLAZE	10K	5%	1/10W		R301	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R234	1-216-041-00	METAL GLAZE	470	5%	1/10W		R302	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R235	1-216-041-00	METAL GLAZE	470	5%	1/10W		R303	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R236	1-216-077-00	METAL GLAZE	15K	5%	1/10W		R304	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R237	1-216-025-00	METAL GLAZE	100	5%	1/10W		R305	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R238	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W		R306	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R239	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W		R307	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R240	1-216-033-00	METAL GLAZE	220	5%	1/10W		R308	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R241	1-216-073-00	METAL GLAZE	10K	5%	1/10W		R309	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R242	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W		R310	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R243	1-216-113-00	METAL GLAZE	470K	5%	1/10W		R311	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R244	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W		R312	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R245	1-216-679-11	METAL CHIP	15K	0.50%	1/10W		R313	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R246	1-216-103-00	METAL GLAZE	180K	5%	1/10W		R314	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R247	1-216-093-00	METAL GLAZE	68K	5%	1/10W		R315	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R248	1-216-095-00	METAL GLAZE	82K	5%	1/10W		R316	1-216-105-00	METAL GLAZE	220K	5%	1/10W	
R249	1-216-109-00	METAL GLAZE	330K	5%	1/10W		R317	1-216-109-00	METAL GLAZE	330K	5%	1/10W	
R250	1-216-101-00	METAL GLAZE	150K	5%	1/10W		R318	1-216-105-00	METAL GLAZE	220K	5%	1/10W	
R251	1-216-105-00	METAL GLAZE	220K	5%	1/10W		R319	1-216-099-00	METAL GLAZE	120K	5%	1/10W	
R252	1-216-101-00	METAL GLAZE	150K	5%	1/10W		R320	1-216-099-00	METAL GLAZE	120K	5%	1/10W	
R253	1-216-101-00	METAL GLAZE	150K	5%	1/10W		R321	1-216-043-00	METAL GLAZE	560	5%	1/10W	
R254	1-216-033-00	METAL GLAZE	220	5%	1/10W		R322	1-216-109-00	METAL GLAZE	330K	5%	1/10W	
R255	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W		R323	1-216-109-00	METAL GLAZE	330K	5%	1/10W	
R256	1-216-107-00	METAL GLAZE	270K	5%	1/10W		R324	1-216-109-00	METAL GLAZE	330K	5%	1/10W	
R258	1-216-041-00	METAL GLAZE	470	5%	1/10W		R325	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R259	1-216-073-00	METAL GLAZE	10K	5%	1/10W		R326	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R260	1-216-025-00	METAL GLAZE	100	5%	1/10W		R328	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R261	1-216-035-00	METAL GLAZE	270	5%	1/10W		R329	1-216-107-00	METAL GLAZE	270K	5%	1/10W	
R262	1-216-097-00	METAL GLAZE	100K	5%	1/10W		R330	1-216-105-00	METAL GLAZE	220K	5%	1/10W	
R263	1-216-029-00	METAL GLAZE	150	5%	1/10W		R331	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R264	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W		R332	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R265	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W		R333	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R266	1-216-073-00	METAL GLAZE	10K	5%	1/10W		R334	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R267	1-216-073-00	METAL GLAZE	10K	5%	1/10W		R335	1-216-099-00	METAL GLAZE	120K	5%	1/10W	
R268	1-216-081-00	METAL GLAZE	22K	5%	1/10W		R336	1-216-095-00	METAL GLAZE	82K	5%	1/10W	
R269	1-216-101-00	METAL GLAZE	150K	5%	1/10W		R337	1-216-105-00	METAL GLAZE	220K	5%	1/10W	
R270	1-216-081-00	METAL GLAZE	22K	5%	1/10W		R338	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R271	1-216-025-00	METAL GLAZE	100	5%	1/10W		R339	1-216-099-00	METAL GLAZE	120K	5%	1/10W	
R272	1-216-101-00	METAL GLAZE	150K	5%	1/10W		R340	1-216-095-00	METAL GLAZE	82K	5%	1/10W	
R273	1-216-113-00	METAL GLAZE	470K	5%	1/10W		R341	1-216-105-00	METAL GLAZE	220K	5%	1/10W	
R275	1-216-081-00	METAL GLAZE	22K	5%	1/10W		R342	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R276	1-216-037-00	METAL GLAZE	330	5%	1/10W		R343	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R277	1-216-049-00	METAL GLAZE	1K	5%	1/10W								
R278	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W								
R279	1-216-037-00	METAL GLAZE	330	5%	1/10W								

B **P** **FA**

REF. NO. PART NO. DESCRIPTION

<MODULE>

SEP101 1-808-654-11 MODULE

<CRYSTAL>

X101 1-527-722-00 OSCILLATOR, CRYSTAL
X102 1-577-259-11 VIBRATOR, CRYSTAL

*A-1195-048-A P BOARD, COMPLETE

<CAPACITOR>

C801 1-126-104-11 ELECT 470MF 20% 35V
C802 1-162-318-11 CERAMIC 0.001MF 10% 500V
C803 1-102-228-00 CERAMIC 470PF 10% 500V
C804 1-123-935-00 ELECT 33MF 20% 160V
C805 1-101-004-00 CERAMIC 0.01MF 50V
C806 1-124-480-11 ELECT 470MF 20% 25V
C807 1-102-228-00 CERAMIC 470PF 10% 500V
C808 1-106-367-00 MYLAR 0.01MF 10% 100V
C809 1-106-375-12 MYLAR 0.022MF 10% 100V
C810 1-162-318-11 CERAMIC 0.001MF 10% 500V
C811 A 1-137-544-91 FILM 0.01MF 3% 600V
C812 A 1-137-545-91 FILM 0.013MF 3% 600V
C813 1-106-385-00 MYLAR 0.056MF 5% 200V
C814 1-106-383-00 MYLAR 0.047MF 10% 100V
C815 1-126-233-11 ELECT 22MF 20% 50V
C816 1-124-798-11 ELECT 1MF 20% 160V
C817 1-130-800-00 FILM 2.2MF 10% 250V
C818 1-102-228-00 CERAMIC 470PF 10% 500V
C819 1-162-116-00 CERAMIC 680PF 10% 2KV
C820 1-162-116-00 CERAMIC 680PF 10% 2KV

<CONNECTOR>

CN801 *1-564-595-11 PLUG, CONNECTOR 14P
CN802 *1-508-766-00 PIN, CONNECTOR (5MM PITCH) 4P
CN803 *1-564-508-11 PLUG, CONNECTOR 5P
CN805 *1-560-123-00 PLUG, CONNECTOR (2.5MM) 3P

<DIODE>

D801 8-719-300-33 DIODE RU-3AM
D802 8-719-300-33 DIODE RU-3AM
D803 8-719-300-33 DIODE RU-3AM
D804 8-719-979-85 DIODE EGP-20G
D805 8-719-300-33 DIODE RU-3AM
D806 8-719-300-33 DIODE RU-3AM
D807 8-719-105-99 DIODE RD6.2M-B1
D808 8-719-008-28 THYRISTOR CRO.2AM-8
D809 8-719-911-55 DIODE U05G
D810 8-719-911-55 DIODE U05G
D811 8-719-911-55 DIODE U05G
D813 8-719-300-33 DIODE RU-3AM

<COIL>

L802 1-459-442-00 COIL (WITH CORE)
L803 1-422-613-11 COIL, AIR CORE
L804 1-459-109-00 COIL, DUST CORE
L805 A 1-460-225-11 COIL, HORIZONTAL LINEARITY
L806 1-407-500-00 INDUCTOR 4.7MMH
L807 1-407-500-00 INDUCTOR 4.7MMH

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

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

REF. NO. PART NO. DESCRIPTION REMARK

<NEON LAMP>

NL801 1-519-108-XX LAMP, NEON

<TRANSISTOR>

Q801 8-729-195-82 TRANSISTOR 2SC2958-L
Q802 8-729-201-62 TRANSISTOR 2SC2555-2
*4-363-404-00 HOLDER, IC; Q802
4-382-854-01 SCREW (M3X8), P. SW (+); Q802
4-879-937-00 SHEET, MICA; Q802

Q803 8-729-906-24 TRANSISTOR 2SD835

<RESISTOR>

R801 1-249-383-11 CARBON 1.5 5% 1/4W F
R802 1-249-377-11 CARBON 0.47 5% 1/4W F
R803 1-216-049-00 METAL GLAZE 1K 5% 1/10W
R804 1-249-419-11 CARBON 1.5K 5% 1/4W F
R805 1-215-892-11 METAL OXIDE 1K 5% 2W F
R807 1-216-425-11 METAL OXIDE 56 5% 1W F
R808 1-202-881-91 SOLID 470K 20% 1/2W
R809 1-216-089-00 METAL GLAZE 47K 5% 1/10W
R810 1-249-421-11 CARBON 2.2K 5% 1/4W F
R811 1-216-049-00 METAL GLAZE 1K 5% 1/10W
R812 1-249-439-11 CARBON 68K 5% 1/4W F
R813 1-249-414-11 CARBON 560 5% 1/4W F
R814 1-249-377-11 CARBON 0.47 5% 1/4W F

<VARIABLE RESISTOR>

RV801 1-223-102-00 RES, ADJ, WIREWOUND 120

<TRANSFORMER>

T801 1-437-082-31 HDT
T802 A 1-439-526-11 TRANSFORMER ASSY, FLYBACK

*1-641-723-11 FA BOARD

*4-341-751-01 EYELET EY6,EY7
*4-341-752-01 EYELET EY1,EY3,EY8,EY9

<CONNECTOR>

CN601 *1-580-689-11 PIN, CONNECTOR (PC BOARD) 4P
CN602 *1-508-765-00 PIN, CONNECTOR (5MM PITCH) 3P
CN603 *1-564-507-11 PLUG, CONNECTOR 4P

<FUSE>

F601 A 1-532-745-11 FUSE, GLASS TUBE (3.15A/125V)
1-533-223-11 CLIP, FUSE, F601

<RESISTOR>

R602 1-202-721-00 SOLID 1.5M 10% 1/2W

<SWITCH>

FA	QA
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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
S601	1-692-049-11	SWITCH, PUSH (AC POWER) (1KEY)		C453	1-124-234-00	ELECT	22MF 20% 16V
		*****	*****	C454	1-128-499-61	ELECT	220MF 20% 16V
		*****	*****	C460	1-126-301-11	ELECT	1MF 20% 50V
A-1275-099-A	QA BOARD, COMPLETE			C461	1-126-301-11	ELECT	1MF 20% 50V
	*****			C462	1-126-301-11	ELECT	1MF 20% 50V
1-537-408-11	TERMINAL BOARD, INPUT/OUTPUT (LINE B)			C464	1-163-031-11	CERAMIC CHIP 0.01MF	50V
1-537-410-11	TERMINAL BOARD, INPUT/OUTPUT (LINE A)			C465	1-163-031-11	CERAMIC CHIP 0.01MF	50V
*4-341-752-01	EYELET EY10, EY11			C466	1-163-031-11	CERAMIC CHIP 0.01MF	50V
				C467	1-163-031-11	CERAMIC CHIP 0.01MF	50V
<CAPACITOR>							
C401	1-124-234-00	ELECT	22MF 20% 16V	CN401	1-506-494-11	PIN, CONNECTOR 15P	
C402	1-124-234-00	ELECT	22MF 20% 16V	CN402	*1-564-518-11	PLUG, CONNECTOR 3P	
C403	1-124-234-00	ELECT	22MF 20% 16V	CN403	*1-580-690-11	PIN, CONNECTOR (PC BOARD) 4P	
C404	1-124-234-00	ELECT	22MF 20% 16V	CN404	*1-564-519-11	PLUG, CONNECTOR 4P	
C405	1-124-234-00	ELECT	22MF 20% 16V				
C406	1-124-234-00	ELECT	22MF 20% 16V				
C407	1-124-234-00	ELECT	22MF 20% 16V				
C408	1-124-463-00	ELECT	0.1MF 20% 50V				
C409	1-124-234-00	ELECT	22MF 20% 16V	D401	8-719-404-46	DIODE MA110	
C410	1-124-234-00	ELECT	22MF 20% 16V	D402	8-719-404-46	DIODE MA110	
C411	1-124-234-00	ELECT	22MF 20% 16V	D403	8-719-110-09	DIODE RD8.2ES-B3	
C412	1-124-234-00	ELECT	22MF 20% 16V	D404	8-719-404-46	DIODE MA110	
C413	1-124-234-00	ELECT	22MF 20% 16V	D405	8-719-404-46	DIODE MA110	
C414	1-126-157-11	ELECT	10MF 20% 16V	D406	8-719-404-46	DIODE MA110	
C415	1-126-157-11	ELECT	10MF 20% 16V	D407	8-719-404-46	DIODE MA110	
C416	1-126-157-11	ELECT	10MF 20% 16V	D408	8-719-404-46	DIODE MA110	
C417	1-126-157-11	ELECT	10MF 20% 16V	D409	8-719-404-46	DIODE MA110	
C418	1-126-157-11	ELECT	10MF 20% 16V	D410	8-719-404-46	DIODE MA110	
C419	1-126-157-11	ELECT	10MF 20% 16V				
C420	1-126-157-11	ELECT	10MF 20% 16V	D411	8-719-404-46	DIODE MA110	
C421	1-102-125-00	CERAMIC	0.0047MF 10% 50V	D412	8-719-404-46	DIODE MA110	
C422	1-124-464-11	ELECT	0.22MF 20% 50V	D413	8-719-404-46	DIODE MA110	
C423	1-126-157-11	ELECT	10MF 20% 16V	D414	8-719-404-46	DIODE MA110	
C424	1-126-157-11	ELECT	10MF 20% 16V	D415	8-719-404-46	DIODE MA110	
C425	1-108-634-11	MYLAR	0.047MF 10% 100V	D416	8-719-404-46	DIODE MA110	
C426	1-128-499-61	ELECT	220MF 20% 16V	D417	8-719-404-46	DIODE MA110	
C427	1-128-499-61	ELECT	220MF 20% 16V	D418	8-719-404-46	DIODE MA110	
C428	1-124-589-11	ELECT	47MF 20% 16V	D419	8-719-404-46	DIODE MA110	
C429	1-124-234-00	ELECT	22MF 20% 16V	D420	8-719-404-46	DIODE MA110	
C430	1-163-033-00	CERAMIC CHIP 0.022MF	50V				
C431	1-124-234-00	ELECT	22MF 20% 16V	D421	8-719-404-46	DIODE MA110	
C432	1-163-033-00	CERAMIC CHIP 0.022MF	50V	D422	8-719-404-46	DIODE MA110	
C433	1-124-234-00	ELECT	22MF 20% 16V	D423	8-719-404-46	DIODE MA110	
C434	1-163-033-00	CERAMIC CHIP 0.022MF	50V	D424	8-719-404-46	DIODE MA110	
C435	1-124-234-00	ELECT	22MF 20% 16V	D425	8-719-404-46	DIODE MA110	
C436	1-163-033-00	CERAMIC CHIP 0.022MF	50V				
C437	1-163-033-00	CERAMIC CHIP 0.022MF	50V	D426	8-719-404-46	DIODE MA110	
C438	1-124-234-00	ELECT	22MF 20% 16V	D427	8-719-404-46	DIODE MA110	
C439	1-163-033-00	CERAMIC CHIP 0.022MF	50V	D428	8-719-404-46	DIODE MA110	
C440	1-163-033-00	CERAMIC CHIP 0.022MF	50V	D429	8-719-404-46	DIODE MA110	
C441	1-124-234-00	ELECT	22MF 20% 16V	D430	8-719-404-46	DIODE MA110	
C442	1-163-033-00	CERAMIC CHIP 0.022MF	50V				
C443	1-163-033-00	CERAMIC CHIP 0.022MF	50V	D431	8-719-404-46	DIODE MA110	
C444	1-163-033-00	CERAMIC CHIP 0.022MF	50V				
C445	1-163-031-11	CERAMIC CHIP 0.01MF	50V				
C446	1-163-031-11	CERAMIC CHIP 0.01MF	50V				
C447	1-126-301-11	ELECT	1MF 20% 50V				
C448	1-124-234-00	ELECT	22MF 20% 16V				
C449	1-163-031-11	CERAMIC CHIP 0.01MF	50V				
C450	1-124-234-00	ELECT	22MF 20% 16V	L401	1-410-682-31	INDUCTOR	470UH
C451	1-163-033-00	CERAMIC CHIP 0.022MF	50V	L402	1-410-682-31	INDUCTOR	470UH
C452	1-128-499-61	ELECT	220MF 20% 16V				

QA

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<TRANSISTOR>							
Q401	8-729-920-74	TRANSISTOR 2SC2412K-QR		R438	1-216-091-00	METAL GLAZE	56K 5% 1/10W
Q402	8-729-920-74	TRANSISTOR 2SC2412K-QR		R439	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W
Q403	8-729-216-22	TRANSISTOR 2SA1162-G		R440	1-216-027-00	METAL GLAZE	120 5% 1/10W
Q404	8-729-920-74	TRANSISTOR 2SC2412K-QR		R441	1-216-089-00	METAL GLAZE	47K 5% 1/10W
Q405	8-729-920-74	TRANSISTOR 2SC2412K-QR		R442	1-216-049-00	METAL GLAZE	1K 5% 1/10W
Q406	8-729-920-74	TRANSISTOR 2SC2412K-QR		R443	1-216-748-11	METAL GLAZE	39K 5% 1/10W
Q407	8-729-920-74	TRANSISTOR 2SC2412K-QR		R444	1-214-702-00	METAL	75 1% 1/4W
Q408	8-729-920-74	TRANSISTOR 2SC2412K-QR		R445	1-216-049-00	METAL GLAZE	1K 5% 1/10W
Q409	8-729-920-74	TRANSISTOR 2SC2412K-QR		R446	1-216-093-00	METAL GLAZE	68K 5% 1/10W
Q410	8-729-920-74	TRANSISTOR 2SC2412K-QR		R447	1-216-091-00	METAL GLAZE	56K 5% 1/10W
Q411	8-729-216-22	TRANSISTOR 2SA1162-G		R448	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W
Q412	8-729-216-22	TRANSISTOR 2SA1162-G		R449	1-216-027-00	METAL GLAZE	120 5% 1/10W
Q413	8-729-216-22	TRANSISTOR 2SA1162-G		R450	1-214-702-00	METAL	75 1% 1/4W
Q414	8-729-216-22	TRANSISTOR 2SA1162-G		R451	1-216-049-00	METAL GLAZE	1K 5% 1/10W
Q416	8-729-145-18	TRANSISTOR 2SC3736		R452	1-216-091-00	METAL GLAZE	56K 5% 1/10W
Q417	8-729-901-06	TRANSISTOR DTA144EK		R453	1-216-093-00	METAL GLAZE	68K 5% 1/10W
Q418	8-729-901-06	TRANSISTOR DTA144EK		R455	1-216-037-00	METAL GLAZE	330 5% 1/10W
Q419	8-729-901-06	TRANSISTOR DTA144EK		R456	1-216-085-00	METAL GLAZE	33K 5% 1/10W
Q420	8-729-901-01	TRANSISTOR DTC144EK		R457	1-216-085-00	METAL GLAZE	33K 5% 1/10W
Q421	8-729-901-06	TRANSISTOR DTA144EK		R458	1-247-707-11	CARBON	390 5% 1/4W
Q422	8-729-901-01	TRANSISTOR DTC144EK		R459	1-216-748-11	METAL GLAZE	39K 5% 1/10W
Q423	8-729-901-06	TRANSISTOR DTA144EK		R460	1-216-089-00	METAL GLAZE	47K 5% 1/10W
<RESISTOR>							
R401	1-214-702-00	METAL GLAZE	75 1% 1/4W	R461	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R402	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R462	1-216-115-00	METAL GLAZE	560K 5% 1/10W
R403	1-216-093-00	METAL GLAZE	68K 5% 1/10W	R463	1-216-105-00	METAL GLAZE	220K 5% 1/10W
R404	1-216-091-00	METAL GLAZE	56K 5% 1/10W	R464	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R405	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R465	1-216-025-00	METAL GLAZE	100 5% 1/10W
R406	1-216-037-00	METAL GLAZE	330 5% 1/10W	R466	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R407	1-216-748-11	METAL GLAZE	39K 5% 1/10W	R467	1-216-115-00	METAL GLAZE	560K 5% 1/10W
R408	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R468	1-216-105-00	METAL GLAZE	220K 5% 1/10W
R409	1-214-702-00	METAL	75 1% 1/4W	R469	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R410	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R470	1-216-025-00	METAL GLAZE	100 5% 1/10W
R411	1-216-093-00	METAL GLAZE	68K 5% 1/10W	R471	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R412	1-216-091-00	METAL GLAZE	56K 5% 1/10W	R472	1-216-115-00	METAL GLAZE	560K 5% 1/10W
R413	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R473	1-216-105-00	METAL GLAZE	220K 5% 1/10W
R414	1-216-037-00	METAL GLAZE	330 5% 1/10W	R474	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R415	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R475	1-216-025-00	METAL GLAZE	100 5% 1/10W
R416	1-216-023-00	METAL GLAZE	82 5% 1/10W	R477	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R417	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R479	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R418	1-216-093-00	METAL GLAZE	68K 5% 1/10W	R480	1-247-711-11	CARBON	680 5% 1/4W
R419	1-216-091-00	METAL GLAZE	56K 5% 1/10W	R481	1-247-720-11	CARBON	3.9K 5% 1/4W
R420	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R482	1-249-455-11	CARBON	4.7 5% 1/4W
R421	1-216-027-00	METAL GLAZE	120 5% 1/10W	R483	1-249-389-11	CARBON	4.7 5% 1/4W F
R422	1-214-702-00	METAL	75 1% 1/4W	R484	1-216-041-00	METAL GLAZE	470 5% 1/10W
R423	1-214-702-00	METAL	75 1% 1/4W	R485	1-247-688-11	CARBON	10 5% 1/4W F
R424	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R486	1-216-037-00	METAL GLAZE	330 5% 1/10W
R425	1-216-093-00	METAL GLAZE	68K 5% 1/10W	R487	1-249-468-11	CARBON	82K 5% 1/4W
R426	1-216-091-00	METAL GLAZE	56K 5% 1/10W	R488	1-249-468-11	CARBON	82K 5% 1/4W
R427	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R489	1-249-468-11	CARBON	82K 5% 1/4W
R428	1-216-037-00	METAL GLAZE	330 5% 1/10W	R490	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R429	1-214-702-00	METAL	75 1% 1/4W	R491	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R430	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R492	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R431	1-216-093-00	METAL GLAZE	68K 5% 1/10W	R493	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R432	1-216-091-00	METAL GLAZE	56K 5% 1/10W	R494	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R433	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R495	1-216-295-00	METAL GLAZE	0 5% 1/10W
R434	1-216-027-00	METAL GLAZE	120 5% 1/10W	R496	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R435	1-214-702-00	METAL	75 1% 1/4W	R497	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R436	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R498	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R437	1-216-093-00	METAL GLAZE	68K 5% 1/10W	R499	1-216-089-00	METAL GLAZE	47K 5% 1/10W
				R1401	1-216-097-00	METAL GLAZE	100K 5% 1/10W
				R1403	1-216-295-00	METAL GLAZE	0 5% 1/10W
				R1404	1-216-097-00	METAL GLAZE	100K 5% 1/10W

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
		<VARIABLE RESISTOR>		C512	1-106-375-12	MYLAR	0.022MF 10%
RV401	1-230-481-11	RES, VAR, CARBON 20K		C513	1-106-375-12	MYLAR	0.022MF 10% 100V
				C514	1-106-371-00	MYLAR	0.015MF 10% 100V
				C515	1-124-925-11	ELECT	2.2MF 20% 50V
		*****		C516	1-124-925-11	ELECT	2.2MF 20% 50V
*1-641-720-11	CA BOARD	*****		C517	1-130-480-00	FILM	0.0056MF 5% 50V
				C518	1-163-245-11	CERAMIC CHIP	56PF 5% 50V
				C519	1-124-927-11	ELECT	4.7MF 20% 50V
				C520	1-163-129-00	CERAMIC CHIP	330PF 5% 50V
		1-526-958-41 SOCKET, CRT		C521	1-124-907-11	ELECT	10MF 20% 50V
		<CAPACITOR>		C523	1-106-363-00	MYLAR	0.0068MF 10% 100V
C701	1-162-114-00	CERAMIC	0.0047MF 10%	C524	1-102-116-00	CERAMIC	680PF 10% 50V
C702	1-102-050-00	CERAMIC	0.01MF 99%	C525	1-102-820-00	CERAMIC	330PF 5% 50V
C710	1-161-830-00	CERAMIC	0.0047MF 99%	C526	1-102-973-00	CERAMIC	100PF 5% 50V
		<CONNECTOR>		C527	1-124-122-11	ELECT	100MF 20% 50V
CN701	*1-564-509-11	PLUG, CONNECTOR 6P		C528	1-102-125-00	CERAMIC	0.0047MF 10% 50V
CN702	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P		C529	1-124-910-11	ELECT	47MF 20% 50V
CN703	*1-564-508-11	PLUG, CONNECTOR 5P		C530	1-163-097-00	CERAMIC CHIP	15PF 5% 50V
		<COIL>		C531	1-131-370-00	TANTALUM	6.8MF 10% 16V
L701	1-410-668-11	INDUCTOR	27UH	C532	1-124-557-11	ELECT	1000MF 20% 25V
		<RESISTOR>		C533	1-124-927-11	ELECT	4.7MF 20% 50V
R701	1-202-871-91	SOLID	2.2K 20%	C534	1-124-768-11	ELECT	4.7MF 20% 50V
R702	1-202-871-91	SOLID	2.2K 20%	C535	1-136-161-00	FILM	0.047MF 5% 50V
R703	1-202-871-91	SOLID	2.2K 20%	C536	1-124-927-11	ELECT	4.7MF 20% 50V
R704	1-202-877-91	SOLID	100K 20%				
R705	1-202-885-91	SOLID	1M 20%	C537	1-124-484-11	ELECT	220MF 20% 35V
R706	1-202-878-91	SOLID	220K 20%	C538	1-124-910-11	ELECT	47MF 20% 50V
		<VARIABLE RESISTOR>		C539	1-136-113-00	FILM	2MF 5% 200V
RV701	1-230-164-00	RES, ADJ, METAL GLAZE 55M		C540	1-163-017-00	CERAMIC CHIP	0.0047MF 10% 50V
	*4-376-132-11	COVER (REAR LID), CV VOL: RV701		C541	1-163-035-00	CERAMIC CHIP	0.047MF 50V
	*4-376-133-11	COVER (MAIN), CV VOL: RV701		C542	1-126-103-11	ELECT	470MF 20% 16V
		*****		C545	1-126-101-11	ELECT	100MF 20% 16V
		A-1346-018-A D BOARD, COMPLETE	*****	C546	1-124-907-11	ELECT	10MF 20% 50V
				C547	1-124-907-11	ELECT	10MF 20% 50V
				C548	1-124-907-11	ELECT	10MF 20% 50V
		1-533-189-11	HOLDER, FUSE	C549	1-124-907-11	ELECT	10MF 20% 50V
		3-710-578-01	COVER, VOLUME, 6 MOLD	C550	1-124-907-11	ELECT	10MF 20% 50V
		*3-738-015-01	COVER, (DIA. 6) CARBON VR	C551	1-124-927-11	ELECT	4.7MF 20% 50V
		4-382-854-01	SCREW (M3X8), P, SW (+)	C552	1-101-004-00	CERAMIC	0.01MF 50V
		4-382-854-11	SCREW (M3X10), P, SW (+)	C553	1-126-103-11	ELECT	470MF 20% 16V
		<CAPACITOR>		C563	1-106-383-00	MYLAR	0.047MF 10% 100V
				C564	1-162-318-11	CERAMIC	0.001MF 10% 500V
				C567	1-124-907-11	ELECT	10MF 20% 50V
				C568	1-130-736-11	FILM	0.01MF 5% 50V
				C569	1-130-471-00	FILM	0.001MF 5% 50V
				C570	1-163-117-00	CERAMIC CHIP	100PF 5% 50V
				C571	1-124-913-11	ELECT	470MF 20% 50V
				C572	1-101-004-00	CERAMIC	0.01MF 50V
				C574	1-106-351-00	MYLAR	0.0022MF 10% 100V
				C575	1-106-351-00	MYLAR	0.0022MF 10% 100V
				C831	1-124-907-11	ELECT	10MF 20% 50V
				C832	1-124-907-11	ELECT	10MF 20% 50V
				C833	1-163-009-11	CERAMIC CHIP	0.001MF 10% 50V
				C834	1-163-121-00	CERAMIC CHIP	150PF 5% 50V
				C835	1-163-209-00	CERAMIC CHIP	0.0015MF 5% 50V
C501	1-124-477-11	ELECT	47MF 20%	C836	1-124-907-11	ELECT	10MF 20% 50V
C502	1-124-907-11	ELECT	10MF 20%	C837	1-106-347-00	MYLAR	0.0015MF 10% 100V
C503	1-126-103-11	ELECT	470MF 20%	C838	1-136-163-00	FILM	0.068MF 5% 50V
C504	1-124-902-00	ELECT	0.47MF 20%	C839	1-106-351-00	MYLAR	0.0022MF 10% 100V
C505	1-106-381-12	MYLAR	0.039MF 10%	C840	1-163-209-00	CERAMIC CHIP	0.0015MF 5% 50V
C506	1-124-903-11	ELECT	1MF 20%	C841	1-163-209-00	CERAMIC CHIP	0.0015MF 5% 50V
C507	1-106-367-00	MYLAR	0.01MF 10%	C842	1-124-902-00	ELECT	0.47MF 20% 50V
C508	1-124-903-11	ELECT	1MF 20%	C843	1-124-902-00	ELECT	0.47MF 20% 50V
C509	1-136-173-00	FILM	0.47MF 5%	C844	1-124-902-00	ELECT	0.47MF 20% 50V
C510	1-136-161-00	FILM	0.047MF 5%	C845	1-124-477-11	ELECT	47MF 20% 25V
C511	1-124-903-11	ELECT	1MF 20%	C846	1-124-907-11	ELECT	10MF 20% 50V
				C847	1-126-233-11	ELECT	22MF 20% 50V

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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 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	
C848	1-131-351-00	TANTALUM CHIP	4.7MF	10%	35V	D1612	8-719-404-46	DIODE MA110
C849	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V	D1613	8-719-404-46	DIODE MA110
C1601	1-124-907-11	ELECT	10MF	20%	50V	D1614	8-719-404-46	DIODE MA110
C1602	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V	D1615	8-719-404-46	DIODE MA110
C1603	1-124-903-11	ELECT	1MF	20%	50V	D1616	8-719-404-46	DIODE MA110
C1604	1-128-500-51	ELECT	1000MF	20%	50V	D1617	8-719-977-49	DIODE DTZ15B
C1605	1-124-922-11	ELECT	1000MF	20%	50V	D1618	8-719-977-49	DIODE DTZ15B
C1606	1-102-074-00	CERAMIC CHIP	0.001MF	10%	50V	D1621	8-719-510-12	DIODE D10SC4M
C1607	1-124-907-11	ELECT	10MF	20%	50V	D1625	8-719-404-46	DIODE MA110
C1608	1-126-233-11	ELECT	22MF	20%	50V	D1626	8-719-404-46	DIODE MA110
C1609	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	D1627	8-719-404-46	DIODE MA110
C1610	1-124-927-11	ELECT	4.7MF	20%	50V	D1628	8-719-404-46	DIODE MA110
C1611	1-126-233-11	ELECT	22MF	20%	50V	D1635	8-719-404-46	DIODE MA110
C1612	1-130-025-91	FILM	0.0039MF	5%	50V	D1699	8-719-404-46	DIODE MA110
C1613	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	<FUSE>		
C1614	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	AF1601 1-532-777-21 FUSE, MICRO (SECONDARY) (1.25A/125V)		
C1615	1-124-465-00	ELECT	0.47MF	20%	50V			
C1620	1-163-133-00	CERAMIC CHIP	470PF	5%	50V			
C1621	1-163-117-00	CERAMIC CHIP	100PF	5%	50V			

<CONNECTOR>

CN501	*1-564-506-11	PLUG, CONNECTOR 3P
CN502	1-506-477-11	PIN, CONNECTOR 12P
CN504	*1-564-507-11	PLUG, CONNECTOR 4P
CN505	*1-564-509-11	PLUG, CONNECTOR 6P
CN507	*1-564-511-11	PLUG, CONNECTOR 8P
CN508	*1-564-104-00	PIN, CONNECTOR (B3P-VH) 3P
CN509	*1-564-506-11	PLUG, CONNECTOR 3P

<DIODE>

D501	8-719-404-46	DIODE MA110
D502	8-719-404-46	DIODE MA110
D503	8-719-404-46	DIODE MA110
D504	8-719-404-46	DIODE MA110
D505	8-719-404-46	DIODE MA110
D506	8-719-911-55	DIODE U05G
D507	8-719-404-46	DIODE MA110
D508	8-719-404-46	DIODE MA110
D509	8-719-404-46	DIODE MA110
D510	8-719-404-46	DIODE MA110

D511	8-719-404-46	DIODE MA110
D512	8-719-404-46	DIODE MA110
D514	8-719-404-46	DIODE MA110
D831	8-719-404-46	DIODE MA110
D832	8-719-404-46	DIODE MA110
D833	8-719-404-46	DIODE MA110
D834	8-719-404-46	DIODE MA110
D835	8-719-109-89	DIODE RD5.6ES-B2
D836	8-719-977-69	DIODE DTZ24B
D837	8-719-404-46	DIODE MA110
D838	8-719-404-46	DIODE MA110
D1601	8-719-105-XX	DIODE RD6.2M-B1
D1602	8-719-404-46	DIODE MA110
D1603	8-719-977-61	DIODE DTZ20B
D1604	8-719-404-46	DIODE MA110
D1605	8-719-404-46	DIODE MA110
D1606	8-719-981-00	DIODE ERC81-004
D1607	8-719-981-00	DIODE ERC81-004
D1608	8-719-977-02	DIODE DTZ5.6A
D1609	8-719-977-49	DIODE DTZ15B
D1610	8-719-404-46	DIODE MA110
D1611	8-729-101-31	TRANSISTOR N13T1

<IC>

IC501	8-759-909-70	IC CX23025
IC502	8-759-100-60	IC UPC1377C
IC503	8-759-801-98	IC LA7830
IC504	8-759-929-62	IC MC7812CT
IC505	8-759-009-51	IC MC14538BF
IC831	8-759-509-29	IC XRU4011BF
IC832	8-759-509-37	IC XRU4070BF
IC833	8-759-009-51	IC MC14538BF
IC1601	8-759-509-91	IC XRA10393F

<COIL>

L501	1-410-093-11	INDUCTOR 33MMH
L502	1-410-665-31	INDUCTOR 15UH
L503	1-424-625-11	COIL, CHOKE (PMC) 381.4UH
L506	1-412-530-31	INDUCTOR 27UH
L1601	1-459-155-00	COIL (WITH CORE) 47UH
L1602	1-424-626-12	COIL, CHOKE 390UH
L1603	1-410-397-21	FERRITE BEAD INDUCTOR

<TRANSISTOR>

Q501	8-729-901-01	TRANSISTOR DTC144EK
Q502	8-729-901-01	TRANSISTOR DTC144EK
Q503	8-729-901-06	TRANSISTOR DTA144EK
Q504	8-729-901-01	TRANSISTOR DTC144EK
Q505	8-729-920-74	TRANSISTOR 2SC2412K-QR
Q506	8-729-901-01	TRANSISTOR DTC144EK
Q507	8-729-901-01	TRANSISTOR DTC144EK
Q508	8-729-920-74	TRANSISTOR 2SC2412K-QR
Q509	8-729-920-74	TRANSISTOR 2SC2412K-QR
Q510	8-729-901-06	TRANSISTOR DTA144EK
Q511	8-729-901-01	TRANSISTOR DTC144EK
Q512	8-729-920-74	TRANSISTOR 2SC2412K-QR
Q513	8-729-216-22	TRANSISTOR 2SA1162-G
Q514	8-729-216-22	TRANSISTOR 2SA1162-G
Q515	8-729-313-42	TRANSISTOR 2SD1134-C
Q516	8-729-901-01	TRANSISTOR DTC144EK
Q517	8-729-901-01	TRANSISTOR DTC144EK
Q518	8-729-920-74	TRANSISTOR 2SC2412K-QR
Q519	8-729-920-74	TRANSISTOR 2SC2412K-QR
Q525	8-729-920-74	TRANSISTOR 2SC2412K-QR

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q532	8-729-920-74	TRANSISTOR 2SC2412K-QR		R535	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
Q533	8-729-920-74	TRANSISTOR 2SC2412K-QR		R536	1-212-881-11	FUSIBLE	100 5% 1/4W F
Q833	8-729-216-22	TRANSISTOR 2SA1162-G		R537	1-215-867-00	METAL OXIDE	470 5% 1W F
Q834	8-729-920-74	TRANSISTOR 2SC2412K-QR		R538	1-216-095-00	METAL GLAZE	82K 5% 1/10W
Q835	8-729-920-74	TRANSISTOR 2SC2412K-QR		R539	1-216-095-00	METAL GLAZE	82K 5% 1/10W
Q836	8-729-309-08	TRANSISTOR 2SC1890A		R540	1-216-101-00	METAL GLAZE	150K 5% 1/10W
Q1601	8-729-920-74	TRANSISTOR 2SC2412K-QR		R541	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W
Q1602	8-729-920-74	TRANSISTOR 2SC2412K-QR		R542	1-216-075-00	METAL GLAZE	12K 5% 1/10W
Q1603	8-729-920-74	TRANSISTOR 2SC2412K-QR		R543	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
Q1604	8-729-216-22	TRANSISTOR 2SA1162-G		R544	1-216-101-00	METAL GLAZE	150K 5% 1/10W
Q1605	8-729-119-80	TRANSISTOR 2SC2688-LK		R545	1-216-041-00	METAL GLAZE	470 5% 1/10W
Q1606	8-729-133-42	TRANSISTOR 2SC2334-L		R546	1-216-091-00	METAL GLAZE	56K 5% 1/10W
Q1607	8-729-920-74	TRANSISTOR 2SC2412K-QR		R547	1-216-121-00	METAL GLAZE	1M 5% 1/10W
Q1608	8-729-920-74	TRANSISTOR 2SC2412K-QR		R548	1-216-107-00	METAL GLAZE	270K 5% 1/10W
Q1609	8-729-920-74	TRANSISTOR 2SC2412K-QR		R549	1-216-101-00	METAL GLAZE	150K 5% 1/10W
Q1610	8-729-920-74	TRANSISTOR 2SC2412K-QR		R550	1-216-356-00	METAL OXIDE	3.9 5% 1W F
Q1611	8-729-920-74	TRANSISTOR 2SC2412K-QR		R552	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
Q1612	8-729-920-74	TRANSISTOR 2SC2412K-QR		R553	1-216-748-11	METAL GLAZE	39K 5% 1/10W
Q1613	8-729-920-74	TRANSISTOR 2SC2412K-QR		R554	1-216-073-00	METAL GLAZE	10K 5% 1/10W
Q1614	8-729-920-74	TRANSISTOR 2SC2412K-QR		R555	1-216-077-00	METAL GLAZE	15K 5% 1/10W
Q1615	8-729-216-22	TRANSISTOR 2SA1162-G		R557	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
Q1616	8-729-216-22	TRANSISTOR 2SA1162-G		R558	1-216-049-00	METAL GLAZE	1K 5% 1/10W
Q1617	8-729-216-22	TRANSISTOR 2SA1162-G		R559	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
Q1618	8-729-216-22	TRANSISTOR 2SA1162-G		R560	1-216-037-00	METAL GLAZE	330 5% 1/10W
<RESISTOR>							
D1619	1-216-295-00	METAL GLAZE 0 5% 1/10W		R561	1-216-081-00	METAL GLAZE	22K 5% 1/10W
D1620	1-216-295-00	METAL GLAZE 0 5% 1/10W		R562	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
JR510	1-216-295-00	METAL GLAZE 0 5% 1/10W		R563	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R501	1-216-089-00	METAL GLAZE 47K 5% 1/10W		R564	1-249-415-11	CARBON	680 5% 1/4W F
R502	1-216-089-00	METAL GLAZE 47K 5% 1/10W		R565	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R503	1-249-437-11	CARBON 47K 5% 1/4W F		R566	1-216-025-00	METAL GLAZE	100 5% 1/10W
R504	1-216-073-00	METAL GLAZE 10K 5% 1/10W		R567	1-216-095-00	METAL GLAZE	82K 5% 1/10W
R505	1-249-393-11	CARBON 10 5% 1/4W F		R568	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W
R506	1-216-071-00	METAL GLAZE 8.2K 5% 1/10W		R569	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W
R507	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W		R570	1-216-093-00	METAL GLAZE	68K 5% 1/10W
R508	1-216-085-00	METAL GLAZE 33K 5% 1/10W		R571	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R509	1-216-687-11	METAL CHIP 33K 0.50% 1/10W		R572	1-216-095-00	METAL GLAZE	82K 5% 1/10W
R510	1-216-683-11	METAL CHIP 22K 0.50% 1/10W		R573	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W
R511	1-216-675-11	METAL CHIP 10K 0.50% 1/10W		R574	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W
R512	1-218-761-11	METAL CHIP 240K 0.50% 1/10W		R575	1-216-105-00	METAL GLAZE	220K 5% 1/10W
R513	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W		R576	1-216-109-00	METAL GLAZE	330K 5% 1/10W
R514	1-216-099-00	METAL CHIP 120K 0.50% 1/10W		R577	1-216-105-00	METAL GLAZE	220K 5% 1/10W
R515	1-216-081-00	METAL GLAZE 22K 5% 1/10W		R578	1-249-457-11	CARBON	6.8 5% 1/4W F
R516	1-216-073-00	METAL GLAZE 10K 5% 1/10W		R579	1-249-457-11	CARBON	6.8 5% 1/4W F
R517	1-216-107-00	METAL CHIP 270K 0.50% 1/10W		R591	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W
R518	1-249-422-11	CARBON 2.7K 5% 1/4W F		R592	1-216-033-00	METAL GLAZE	220 5% 1/10W
R519	1-216-085-00	METAL GLAZE 33K 5% 1/10W		R831	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R520	1-216-677-11	METAL CHIP 12K 0.50% 1/10W		R832	1-216-075-00	METAL GLAZE	12K 5% 1/10W
R521	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W		R833	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R522	1-216-107-00	METAL GLAZE 270K 5% 1/10W		R834	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R523	1-216-081-00	METAL GLAZE 22K 5% 1/10W		R835	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R524	1-216-049-00	METAL GLAZE 1K 5% 1/10W		R836	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R525	1-216-434-11	METAL OXIDE 1.8K 5% 1W F		R837	1-216-075-00	METAL GLAZE	12K 5% 1/10W
R526	1-216-079-00	METAL GLAZE 18K 5% 1/10W		R838	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R527	1-249-437-11	CARBON 47K 5% 1/4W F		R839	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R528	1-216-073-00	METAL GLAZE 10K 5% 1/10W		R840	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R529	1-216-073-00	METAL GLAZE 10K 5% 1/10W		R841	1-216-093-00	METAL GLAZE	68K 5% 1/10W
R530	1-216-089-00	METAL GLAZE 47K 5% 1/10W		R842	1-216-093-00	METAL GLAZE	68K 5% 1/10W
R531	1-216-089-00	METAL GLAZE 47K 5% 1/10W		R843	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R532	1-216-097-00	METAL GLAZE 100K 5% 1/10W		R844	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R533	1-216-089-00	METAL GLAZE 47K 5% 1/10W		R847	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R534	1-216-097-00	METAL GLAZE 100K 5% 1/10W		R850	1-216-085-00	METAL GLAZE	33K 5% 1/10W
				R851	1-216-669-11	METAL CHIP	5.6K 0.50% 1/10W
				R852	1-216-675-11	METAL CHIP	10K 0.50% 1/10W
				R853	1-216-105-00	METAL GLAZE	220K 5% 1/10W
				R854	1-216-099-00	METAL CHIP	120K 0.50% 1/10W
				R855	1-216-697-11	METAL CHIP	82K 0.50% 1/10W

The components identified by  in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the values originally used.

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.

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HA	X	S
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REF. NO.	PART NO.	DESCRIPTION					REMARK	REF. NO.	PART NO.	DESCRIPTION					REMARK												
<RESISTOR>																											
JW009	1-216-295-00	METAL GLAZE	0	5%	1/10W			C1111	1-163-018-00	CERAMIC CHIP	0.0056MF	10%	50V														
JW024	1-216-295-00	METAL GLAZE	0	5%	1/10W			C1112	1-126-160-11	ELECT	1MF	20%	50V														
R001	1-247-713-11	CARBON	1K	5%	1/4W			C1113	1-163-119-00	CERAMIC CHIP	120PF	5%	50V														
R002	1-216-295-00	METAL GLAZE	0	5%	1/10W			C1114	1-163-103-00	CERAMIC CHIP	27PF	5%	50V														
R003	1-216-295-00	METAL GLAZE	0	5%	1/10W			C1115	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V														
R004	1-216-081-00	METAL GLAZE	22K	5%	1/10W			C1116	1-163-114-00	CERAMIC CHIP	75PF	5%	50V														
<VARIABLE RESISTOR>																											
RV001	1-241-846-11	RES, VAR, CARBON	20K					C1117	1-124-589-11	ELECT	47MF	20%	16V														
RV002	1-241-846-11	RES, VAR, CARBON	20K					C1118	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V														
RV003	1-241-845-11	RES, VAR, CARBON	20K					C1119	1-163-020-00	CERAMIC CHIP	0.0082MF	10%	50V														
RV004	1-241-845-11	RES, VAR, CARBON	20K					C1120	1-163-097-00	CERAMIC CHIP	15PF	5%	50V														
RV005	1-241-845-11	RES, VAR, CARBON	20K					C1121	1-163-097-00	CERAMIC CHIP	15PF	5%	50V														
RV006	1-241-845-11	RES, VAR, CARBON	20K					C1122	1-163-222-11	CERAMIC CHIP	5PF	0.25PF	50V														
RV007	1-226-773-11	RES, ADJ, METAL GLAZE	22K					C1123	1-163-097-00	CERAMIC CHIP	15PF	5%	50V														
RV008	1-226-773-11	RES, ADJ, METAL GLAZE	22K					C1130	1-163-097-00	CERAMIC CHIP	15PF	5%	50V														
RV009	1-226-773-11	RES, ADJ, METAL GLAZE	22K					C1131	1-163-097-00	CERAMIC CHIP	15PF	5%	50V														
RV010	1-226-773-11	RES, ADJ, METAL GLAZE	22K					<CONNECTOR>																			
RV011	1-226-773-11	RES, ADJ, METAL GLAZE	22K					CN1101*1-565-488-11 CONNECTOR, BOARD TO BOARD 12P																			
RV012	1-226-773-11	RES, ADJ, METAL GLAZE	22K					<DIODE>																			
<SWITCH>																											
S001	1-554-419-00	SWITCH, PUSH (1 KEY)						<IC>																			
S002	1-554-419-00	SWITCH, PUSH (1 KEY)						IC1101 8-752-056-67 IC CXA1214P																			
S003	1-554-419-00	SWITCH, PUSH (1 KEY)						<COIL>																			
S004	1-554-419-00	SWITCH, PUSH (1 KEY)						L1101	1-408-411-00	INDUCTOR		15UH															
S005	1-554-419-00	SWITCH, PUSH (1 KEY)						L1102	1-404-496-00	COIL																	
S006	1-554-419-00	SWITCH, PUSH (1 KEY)						L1103	1-404-496-00	COIL																	
*****								L1104	1-408-411-00	INDUCTOR		15UH															
*1-641-724-11 X BOARD								L1110	1-412-008-31	INDUCTOR CHIP		15UH															
*****								L1111	1-412-008-31	INDUCTOR CHIP		15UH															
<CONNECTOR>								<TRANSISTOR>																			
CN21	*1-564-518-11	PLUG, CONNECTOR	3P					Q1101	8-729-216-22	TRANSISTOR	2SA1162-G																
<DIODE>								Q1102	8-729-920-74	TRANSISTOR	2SC2412K-QR																
D21	8-719-023-78	DIODE	SEL3810DLC05					Q1103	8-729-216-22	TRANSISTOR	2SA1162-G																
D22	8-719-023-78	DIODE	SEL3810DLC05					Q1104	8-729-216-22	TRANSISTOR	2SA1162-G																
D23	8-719-023-78	DIODE	SEL3810DLC05					Q1105	8-729-901-01	TRANSISTOR	DTC144EK																
*****								Q1106	8-729-901-01	TRANSISTOR	DTC144EK																
*****								Q1107	8-729-109-44	TRANSISTOR	2SK94-X4																
*****								Q1108	8-729-920-74	TRANSISTOR	2SC2412K-QR																
A-1394-343-A S BOARD, COMPLETE								<RESISTOR>																			
*****								R1101	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W														
C1101	1-163-119-00	CERAMIC CHIP	120PF	5%	50V			R1102	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W														
C1102	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V			R1103	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W														
C1103	1-124-589-11	ELECT	47MF	20%	16V			R1104	1-216-073-00	METAL GLAZE	10K	5%	1/10W														
C1104	1-163-031-11	CERAMIC CHIP	0.01MF		50V			R1105	1-216-031-00	METAL GLAZE	180	5%	1/10W														
C1105	1-163-114-00	CERAMIC CHIP	75PF	5%	50V			R1106	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W														
C1106	1-163-101-00	CERAMIC CHIP	22PF	5%	50V			R1107	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W														
C1107	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V			R1108	1-216-039-00	METAL GLAZE	390	5%	1/10W														
C1108	1-163-119-00	CERAMIC CHIP	120PF	5%	50V			R1109	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W														
C1109	1-163-031-11	CERAMIC CHIP	0.01MF		50V			R1110	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W														
C1110	1-163-117-00	CERAMIC CHIP	100PF	5%	50V			R1111	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W														
								R1112	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W														
								R1113	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W														

S G

The components identified by **S** in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
Should replacement be required, replace only with the value originally used.

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

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	
R1114	1-216-055-00	METAL GLAZE	1.8K 5%	1/10W	D201	Δ 8-719-971-08	DIODE ESAC39M 06C	
R1115	1-216-061-00	METAL GLAZE	3.3K 5%	1/10W	D601	Δ 8-719-510-27	DIODE D3S060	
R1116	1-216-069-00	METAL GLAZE	6.8K 5%	1/10W	D602	Δ 8-719-921-20	DIODE 1SS119TD	
R1117	1-216-061-00	METAL GLAZE	3.3K 5%	1/10W	D603	Δ 8-719-981-47	DIODE ERA38-06TP1	
R1118	1-216-073-00	METAL GLAZE	10K 5%	1/10W	D604	Δ 8-719-981-47	DIODE ERA38-06TP1	
R1119	1-216-049-00	METAL GLAZE	1K 5%	1/10W	D605	Δ 8-719-113-44	DIODE RD20ES-T1B3	
R1120	1-216-097-00	METAL GLAZE	100K 5%	1/10W	D651	Δ 8-719-971-08	DIODE ESAC39M 06C	
R1121	1-216-121-00	METAL GLAZE	1M 5%	1/10W				
R1122	1-216-039-00	METAL GLAZE	390 5%	1/10W				
R1123	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W				
R1124	1-216-029-00	METAL GLAZE	150 5%	1/10W				
R1125	1-216-029-00	METAL GLAZE	150 5%	1/10W				
R1126	1-216-053-00	METAL GLAZE	1.5K 5%	1/10W				
R1127	1-216-043-00	METAL GLAZE	560 5%	1/10W				
R1128	1-216-049-00	METAL GLAZE	1K 5%	1/10W				
R1129	1-216-091-00	METAL GLAZE	56K 5%	1/10W				
R1130	1-216-295-00	METAL GLAZE	0 5%	1/10W				
R1131	1-216-073-00	METAL GLAZE	10K 5%	1/10W				
R1132	1-216-073-00	METAL GLAZE	10K 5%	1/10W				
R1133	1-216-073-00	METAL GLAZE	10K 5%	1/10W				
R1134	1-216-091-00	METAL GLAZE	56K 5%	1/10W				
<VARIABLE RESISTOR>								
RV1101	1-238-015-11	RES, ADJ, CARBON	4.7K		Q601	Δ 8-729-322-18	TRANSISTOR 2SK1402A	
RV1102	1-238-013-11	RES, ADJ, CARBON	2.2K					
<TRANSFORMER>								
T1101	1-404-584-11	COIL						

G BOARD (SOP-1021)								

4-812-134-11 RIVET NYLON, 3.5φ								
<CAPACITOR>								
C601	Δ 1-136-889-11	METALIZED FILM 0.22MF	20%	250V	R601	Δ 1-205-940-51	CEMENT	1.5 5% 5W F
C602	Δ 1-136-889-11	METALIZED FILM 0.22MF	20%	250V	R602	Δ 1-205-940-51	CEMET	1.5 5% 5W F
C603	Δ 1-161-973-51	CERAMIC	220PF	10%	R603	Δ 1-215-904-11	METAL OXIDE	100K 5% 2W F
C604	Δ 1-161-973-51	CERAMIC	220PF	10%	R604	Δ 1-215-904-11	METAL OXIDE	100K 5% 2W F
C605	Δ 1-161-973-51	CERAMIC	220PF	10%	R605	Δ 1-212-865-61	FUSIBLE	22 5% 1/4W F
C606	Δ 1-161-973-51	CERAMIC	220PF	10%	R606	Δ 1-247-805-91	CARBON	82 5% 1/4W
C607	Δ 1-161-973-51	CERAMIC	220PF	10%	R607	Δ 1-260-128-91	CARBON	270K 5% 1/2W
C608	Δ 1-161-973-51	CERAMIC	220PF	10%	R608	Δ 1-260-128-91	CARBON	270K 5% 1/2W
C609	Δ 1-161-973-51	CERAMIC	220PF	10%	R609	Δ 1-215-904-51	METAL OXIDE	100K 5% 2W F
C610	Δ 1-161-973-51	CERAMIC	220PF	10%	R610	Δ 1-207-455-11	WIRE	0.22 10% 1/2W
C611	Δ 1-161-973-51	CERAMIC	220PF	10%	R611	Δ 1-247-789-91	CARBON	18 5% 1/4W
C612	Δ 1-161-973-51	CERAMIC	220PF	10%	R612	Δ 1-247-795-91	CARBON	33 5% 1/4W
C613	Δ 1-161-973-51	CERAMIC	220PF	10%	R613	Δ 1-215-904-51	METAL OXIDE	100K 5% 2W F
C614	Δ 1-161-973-51	CERAMIC	220PF	10%	R614	Δ 1-247-815-91	CARBON	220 5% 1/4W
C615	Δ 1-161-973-51	CERAMIC	220PF	10%	R615	Δ 1-215-886-51	METAL OXIDE	100 5% 2W F
C616	Δ 1-161-973-51	CERAMIC	220PF	10%	R616	Δ 1-215-886-51	METAL OXIDE	100 5% 2W F
C617	Δ 1-161-973-51	CERAMIC	220PF	10%	R617	Δ 1-260-107-91	CARBON	4.7K 5% 1/2W
C618	Δ 1-161-973-51	CERAMIC	220PF	10%	R618	Δ 1-260-107-91	CARBON	4.7K 5% 1/2W
C619	Δ 1-161-973-51	CERAMIC	220PF	10%	R619	Δ 1-247-867-91	CARBON	33K 5% 1/4W
C620	Δ 1-161-973-51	CERAMIC	220PF	10%	R620	Δ 1-247-867-91	CARBON	33K 5% 1/4W
C621	Δ 1-161-973-51	CERAMIC	220PF	10%	R621	Δ 1-247-837-91	CARBON	1.8 5% 1/4W
<VARIABLE RESISTOR>								
RV1103	1-237-443-11	RES, ADJ, CARBON	1K					
<CONNECTOR>								
CN610	Δ 1-560-436-11	HORIZONTAL PIN ASSY 3P			T601	Δ 1-450-760-11	TRANSFORMER, CONVERTER	
CN651	Δ 1-564-518-11	PLUG, CONNECTOR 3P						
MISCELLANEOUS								

CN610 Δ 1-413-720-11 SWITCHING REGULATOR (SOP-1021)								
CN651 Δ 1-413-720-31 SWITCHING REGULATOR (SOP-1021)								

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

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

REF. NO.	PART NO.	DESCRIPTION	REMARK
	1-426-043-00	COIL, DEGAUSSING	
Δ .	1-451-319-22	DEFLECTION YOKE (Y9FXC)	
	1-452-126-11	MAGNET	
Δ .	1-532-747-11	FUSE, GLASS TUBE (5A/125V)	
	1-544-252-11	SPEAKER	
	1-555-724-00	WIRE, GROUND	
Δ .	8-737-151-05	CRT (A20JKU10X) (PVM-8041Q ONLY)	
Δ .	8-737-651-05	CRT (M20JMP10X) (PVM-8044Q ONLY)	

ACCESSORIES & PACKING MATERIALS

PART NO.	DESCRIPTION	REMARK
Δ 1-551-812-11	CORD, POWER (10A/125V)	
1-690-871-11	CABLE (MINI DIN) SP	
2-990-341-02	HOLDER (A), PLUG	
2-990-242-01	HOLDER (B), PLUG	
*3-704-301-01	BAG (STANDARD), PROTECTION	
3-754-506-11	MANUAL, INSTRUCTION	
4-034-835-01	PLATE, TALLY	
*4-034-954-01	INDIVIDUAL CARTON (PVM-8041Q ONLY)	
*4-034-955-01	CUSHION (UPPER) (ASSY)	
*4-034-956-01	CUSHION (LOWER) (ASSY)	
*4-035-602-01	INDIVIDUAL CARTON (PVM-8044Q ONLY)	

**Sony Corporation
B & I Systems Company**

English
94HL15072-2
Printed in Japan
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