

CPD-1320

SERVICE MANUAL

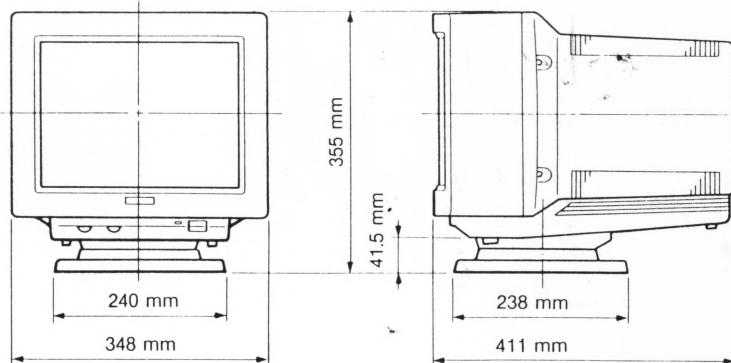
US Model
Canadian Model

Chassis No. SCC-C39A-A



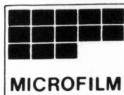
SPECIFICATIONS

Picture tube	Super Fine Pitch Trinitron color tube 13-inch (visual, measured diagonally) 90 degree deflection Useful screen: 268mm × 201mm Phosphor: P22 Aperture Grille pitch: 0.25mm Non-glare coating	Dimensions	355(H) × 348(W) × 411(D) mm (14 × 13 ³ / ₄ × 16 ¹ / ₈ inches)
Resolution format	640 × 480 VGA graphic mode 720 × 400 VGA text mode		
Scanning frequency	Horizontal : 31.5 kHz Vertical : 60/70 Hz		
Input connector	Three-row D-sub 15 pin (male)		
Video input signal	Analog RGB positive 0.714 Vp-p/75Ω terminated		
Sync input	H/V separated TTL level	Weight	12.7 kg (28 lb) Including the tilt-swivel
Power requirements	120V AC, 50/60 Hz	Supplied accessory	AC power cord (1)



Design and specification subject to change without notice.

TRINITRON® CHARACTER DISPLAY
SONY®



MICROFILM

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WARNING !!

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

SAFETY-RELATED COMPONENT WARNING !!

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

ATTENTION!!

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

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

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

SAFETY CHECK-OUT (US Model Only)

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

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

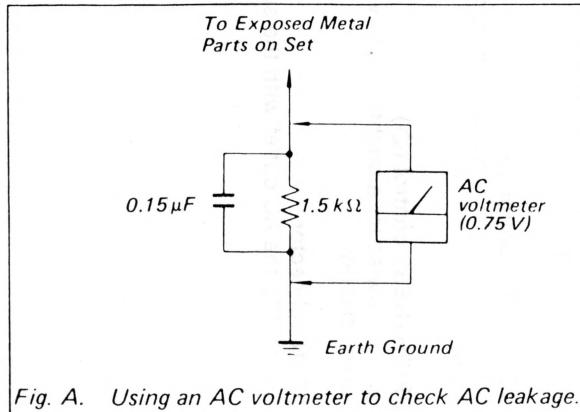


Fig. A. Using an AC voltmeter to check AC leakage.

LEAKAGE TEST

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

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

HOW TO FIND A GOOD EARTH GROUND

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

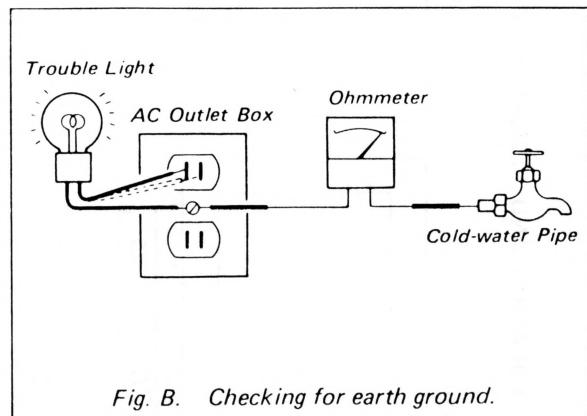
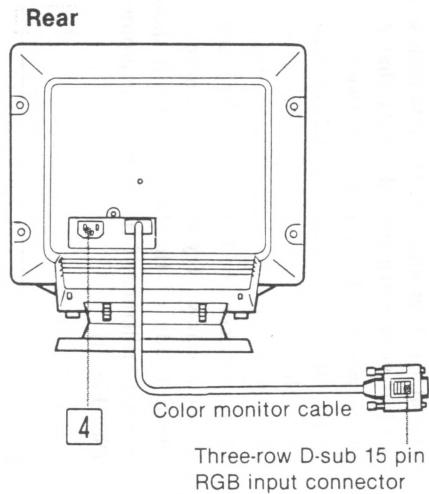
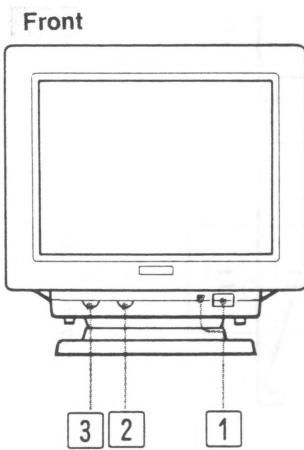


Fig. B. Checking for earth ground.

SECTION 1

GENERAL

1-1. LOCATION AND FUNCTION OF CONTROLS



1 POWER switch and indicator

To turn on the power of the unit, press this switch. The indicator will light up. To turn off the unit, press it again.

2 CONTRAST control (○)

Turn clockwise to increase contrast, or counterclockwise for less contrast.

3 BRIGHTNESS control (○)

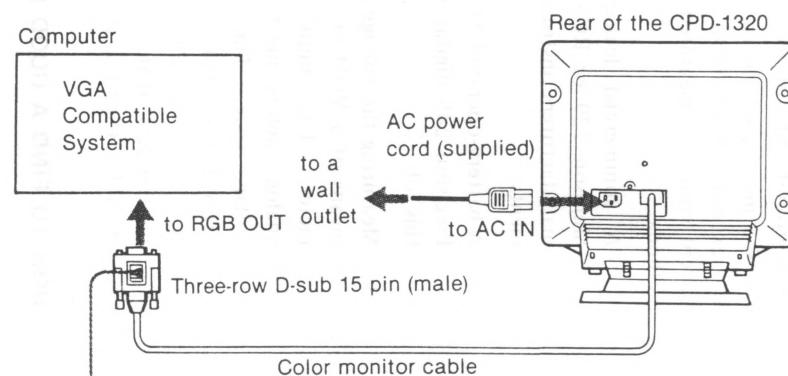
Turn clockwise for a brighter display, or turn counterclockwise for a darker display.

4 AC IN connector

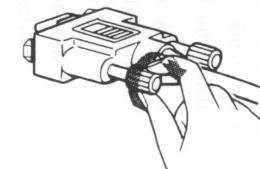
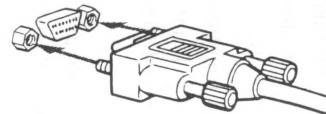
Connect to the AC outlet with the supplied AC power cord.

1-2. CONNECTIONS

Connect the power cord and the color monitor cable as shown. Be sure to turn the power of the unit off before making any connections.



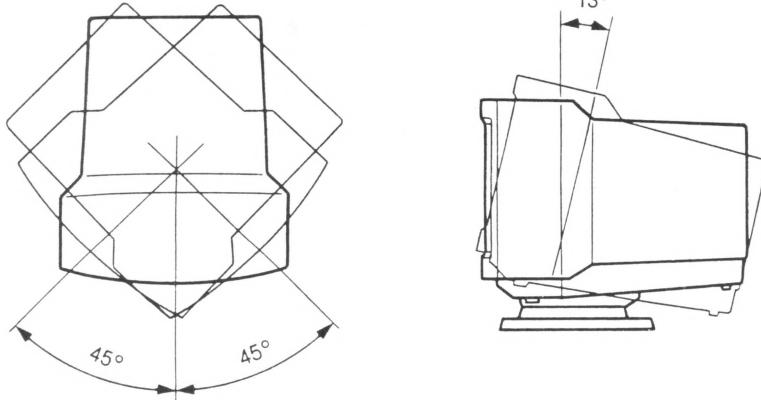
- 1 Align the plug with the receptacle. 2 Plug in and tighten the screws by a hand.



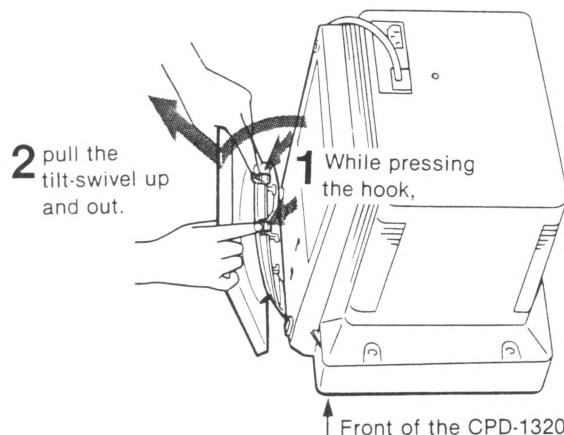
To disconnect the plug, loosen the screws.

1-3. USE OF THE TILT-SWIVEL

With the tilt-swivel, this unit can be adjusted to be viewed at your desired angle within 90° horizontally and 13° vertically.

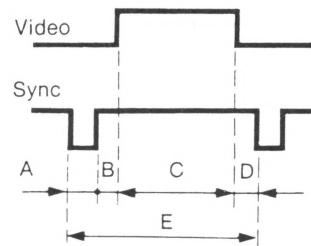


The tilt-swivel can be removed from this unit.

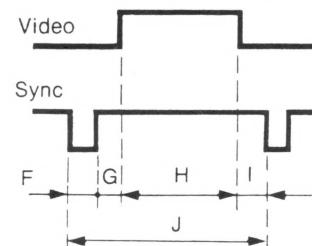


1-4. TIMING CHARTS (VGA COMPATIBLE)

HORIZONTAL



VERTICAL



Sync polarity: See below chart *

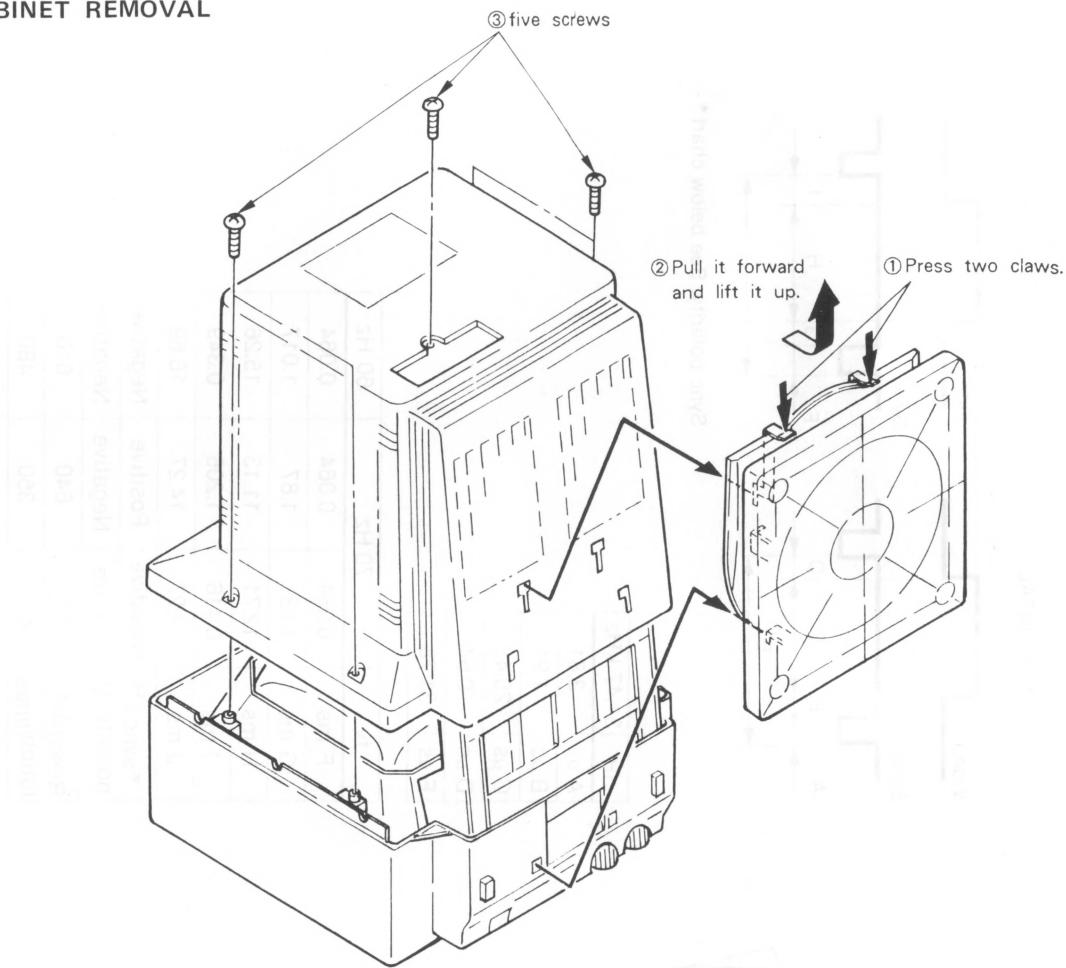
f _H	31.47 kHz
A μs	3.81
B μs	1.91
C μs	25.42
D μs	0.64
E μs	31.78

f _V	70 Hz		60 Hz	
F ms	0.064	0.064	0.064	
G ms	1.08	1.87	1.017	
H ms	12.71	11.13	15.26	
I ms	0.416	1.206	0.349	
J ms	14.27	14.27	16.69	
* sync polarity	H V	Negative Positive	Positive Negative	Negative Negative
Resolution	dots lines	720 400	640 350	640 480

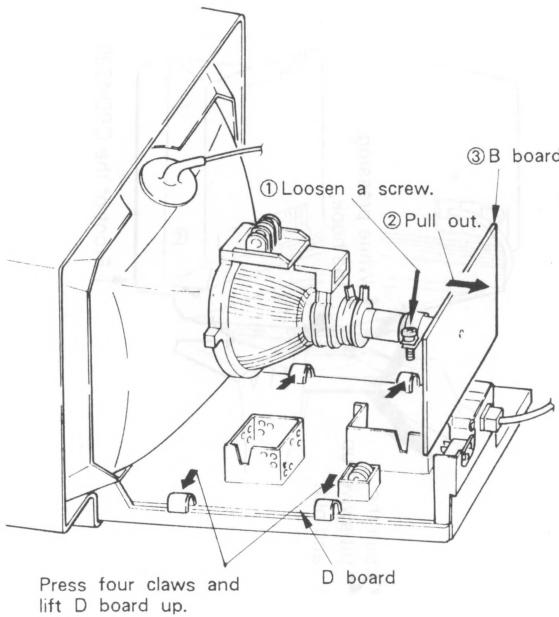
SECTION 2

DISASSEMBLY

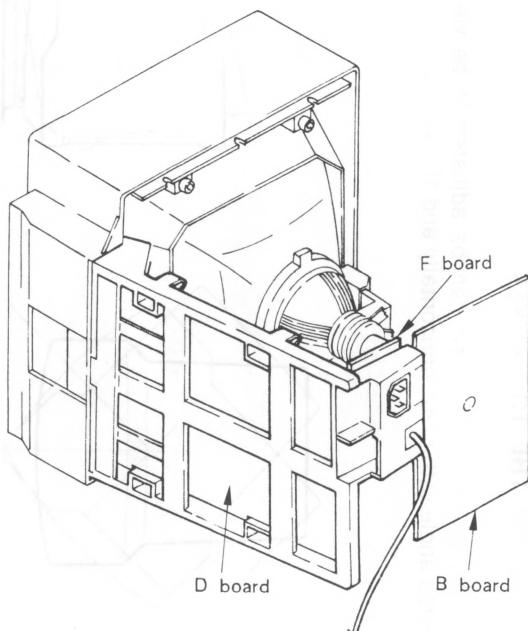
2-1. CABINET REMOVAL



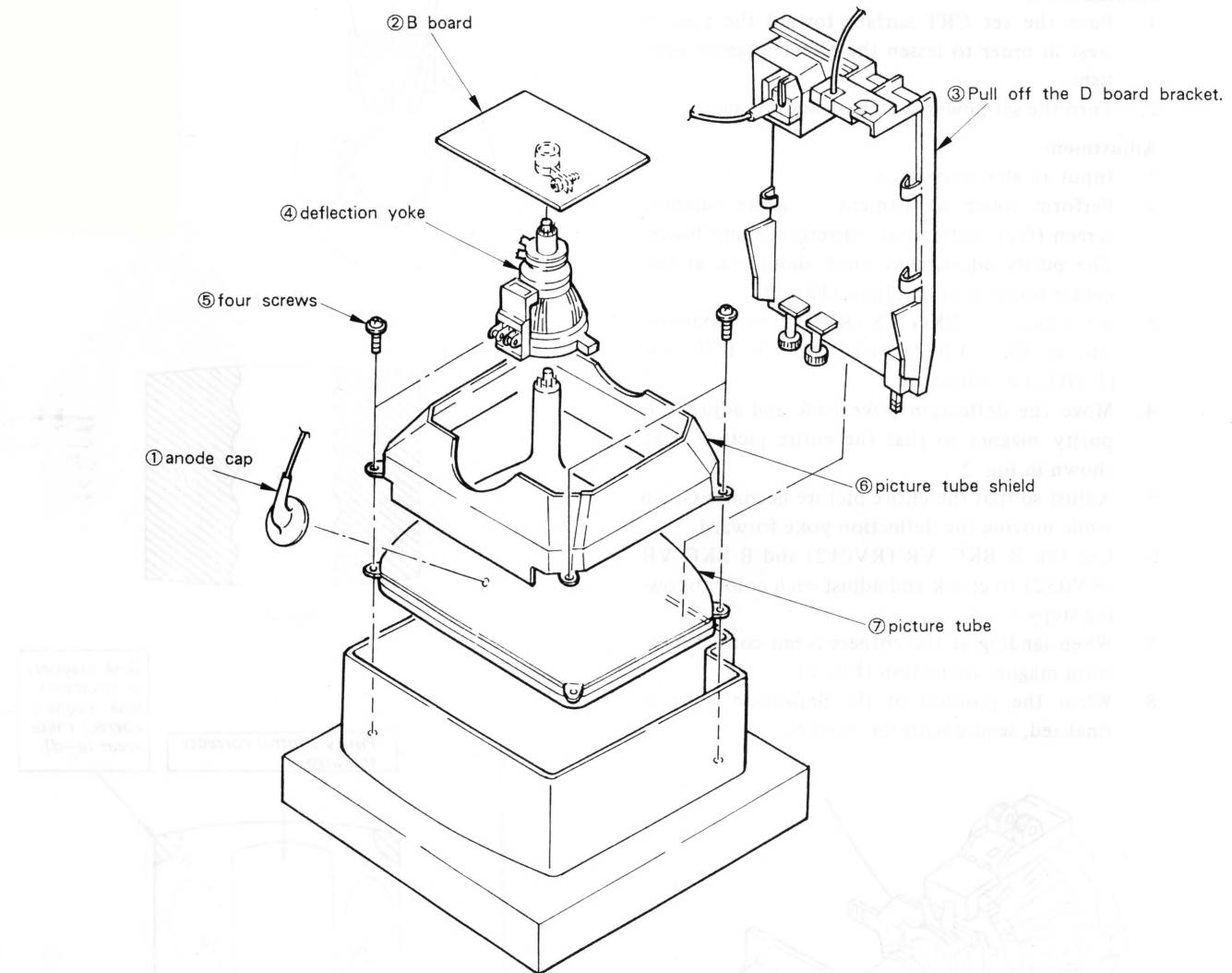
2-2. B AND D BOARDS REMOVAL



2-3. SERVICE POSITION

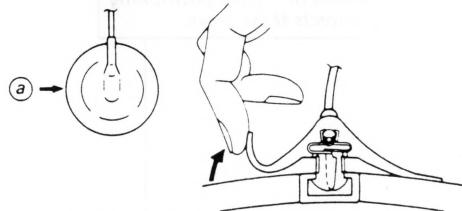


2-4. PICTURE TUBE REMOVAL

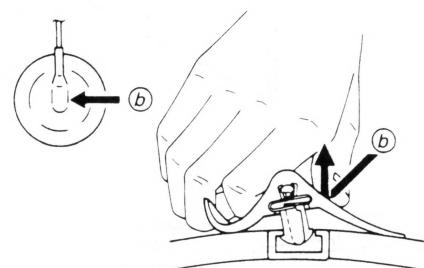
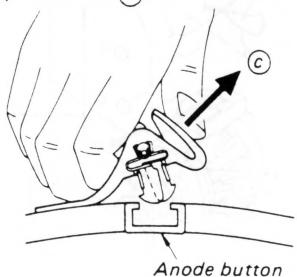


2-5. REMOVAL OF ANODE CAP

• Removing Procedures



① Turn up one side of the rubber cap in the direction indicated by the arrow ②.



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.

SECTION 3

SET-UP ADJUSTMENTS

3-1. LANDING ADJUSTMENT

Preparations:

1. Face the set CRT surface toward the east or west in order to lessen the effect of geomagnetism.
2. Turn the set power switch on and degauss.

Adjustment:

1. Input an all white signal.
2. Perform rough adjustment of white balance, screen (G2), horizontal convergence and focus. The purity adjustment knob should be at the center position at this time. (Fig. 1)
3. Set B board G BKG VR (RV022) to maximum and R BKG VR (RV012) and B BKG VR (RV032) to minimum.
4. Move the deflection yoke back and adjust the purity magnet so that the entire picture is as shown in Fig. 2.
5. Adjust so that the entire picture becomes Green while moving the deflection yoke forward.
6. Use the R BKG VR (RV012) and B BKG VR (RV032) to check and adjust each color following steps 3 – 5.
7. When landing at the corners is not correct, perform magnet correction (Fig. 3).
8. When the position of the deflection yoke is finalized, secure with the bracket.

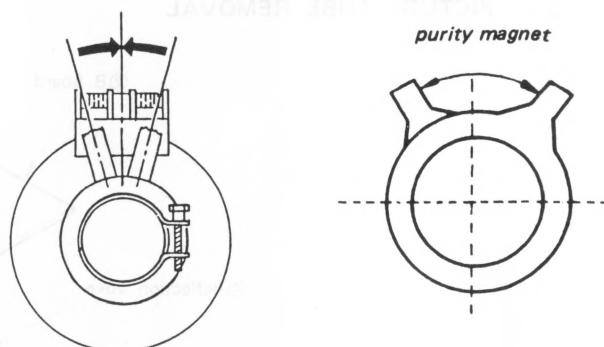
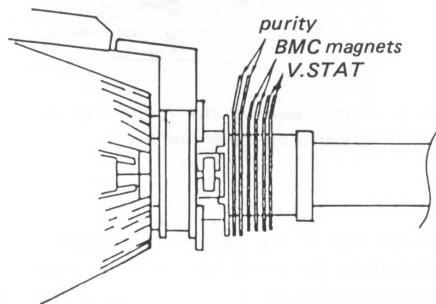
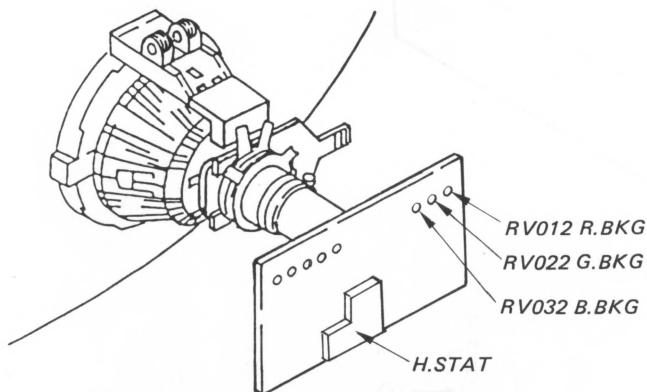


Fig. 1

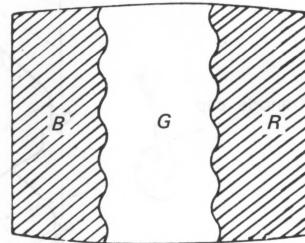


Fig. 2

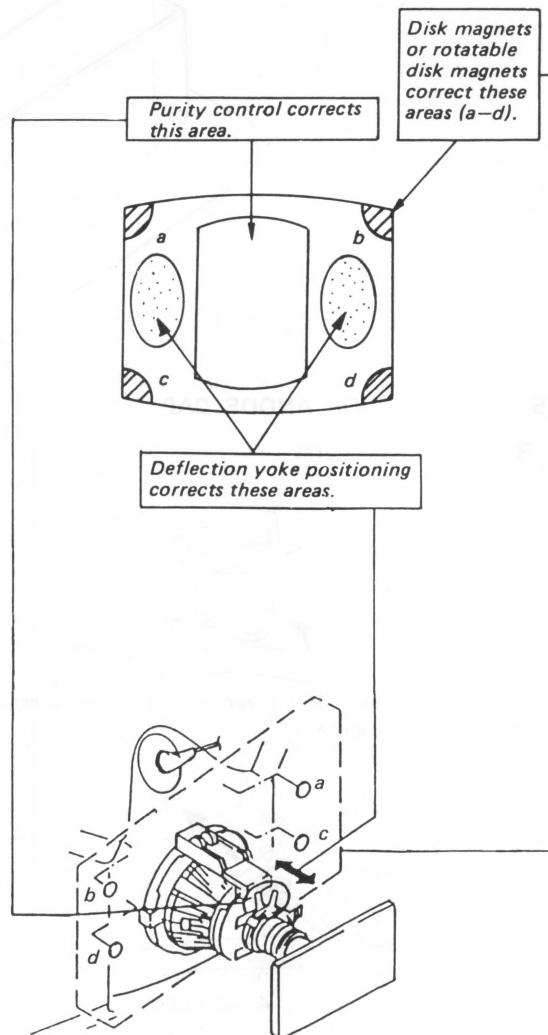


Fig. 3

3-2. DEFLECTION YOKE NECK ADJUSTMENT

Perform this adjustment when there is misconvergence and pincushion distortion at the top and bottom of the picture.

1. Tilt the deflection yoke up and down to adjust when the pincushion distortion is not the same at the top and bottom of the picture. (Fig. 4)

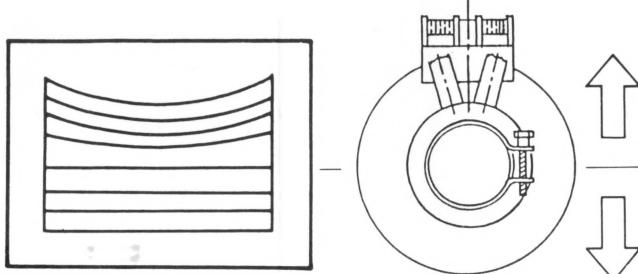


Fig. 4

2. When there is misconvergence at the top and bottom of the picture as shown in Fig. 5, tilt the deflection yoke to the left and right to adjust.

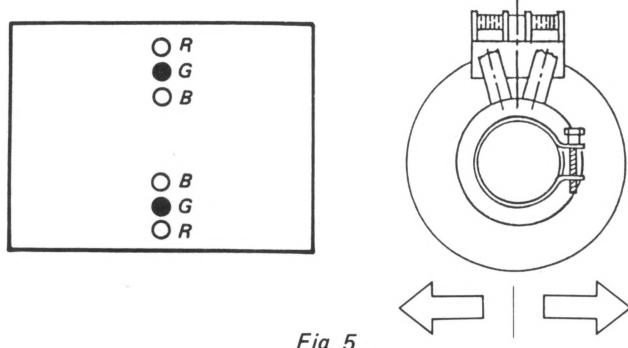
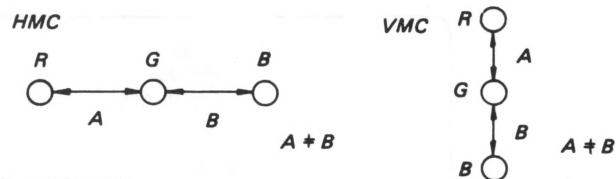


Fig. 5

- 1) Convergence Adjustment for Picture Center (H. STAT, V. STAT)
 1. Input a dot signal, and with BRT at minimum, adjust for optimum picture with PICTURE.
 2. Line up picture center and horizontal direction RGB dots with H. STAT VR (RV081).
 3. Line up picture center and vertical direction RGB dots with V. STAT magnet.
- 2) Picture center horizontal direction asymmetrical misconvergence (HMC)

Picture center vertical direction asymmetrical misconvergence (VMC)

 1. For HMC, move the BMC magnet to adjust so that the R and B dots are symmetrical to the right and left of the G dot.
 2. For VMC, move the BMC magnet to adjust so that the R and B dots are symmetrical above and below the G dot.



Dot Movement due to BMC Magnet movement

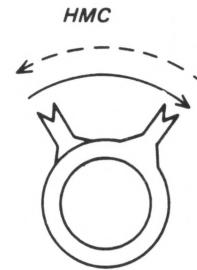


Fig. 6

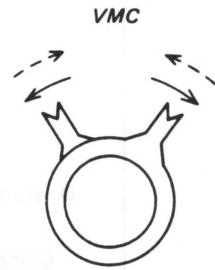
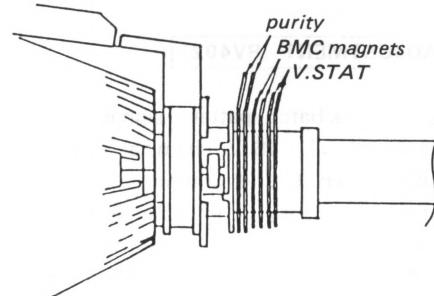
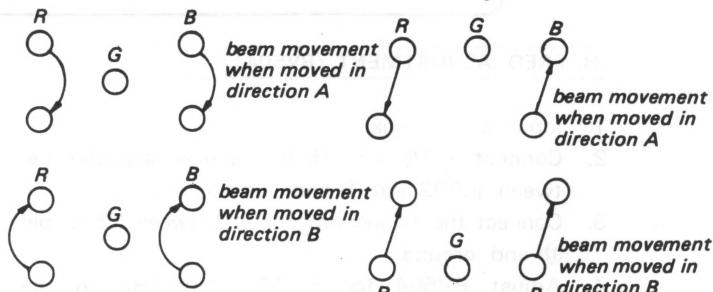


Fig. 7



3) Picture Periphery Convergence Adjustment

- For Y crosstalk, adjust with the Y crosstalk correction magnet.

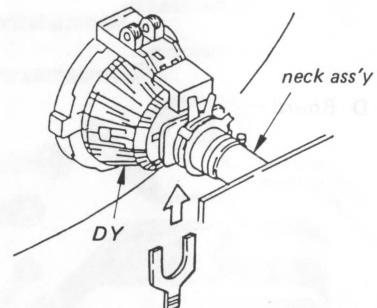
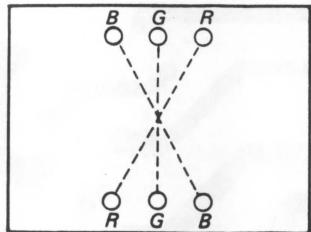
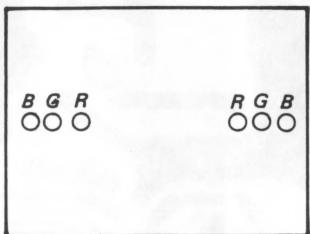


Fig. 8

- Adjust with the X crosstalk adjustment magnet when there is H TILT.



When red dots are off to the inside at the right and left.

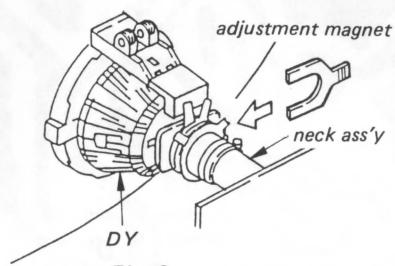


Fig. 9

- Adjust with the deflection yoke H. CV correction coil when there is X crosstalk. (Fig. 10)

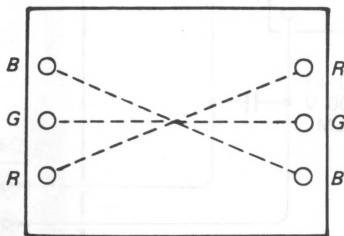
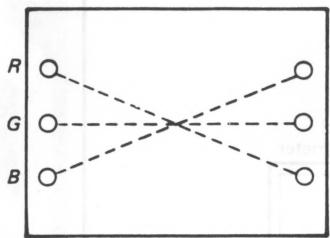


Fig. 10

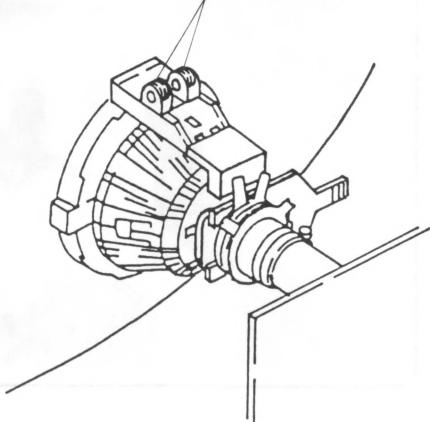
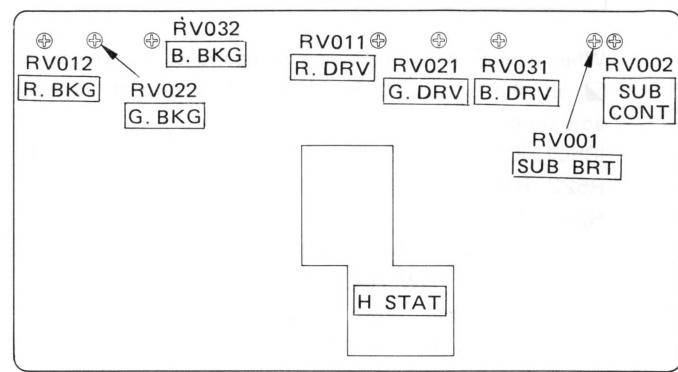
A coil (H. CV coil)

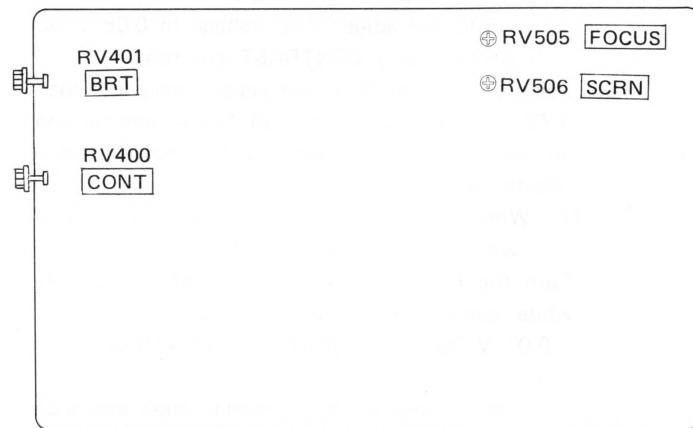
Fig. 11

3-3. G₂ ADJUSTMENT

1. Receive a dot signal.
2. R, G, B BKG VR MINIMUM
R, G, B DRIVE VR MAXIMUM
SUB BRT VR MAXIMUM
SUB CONT VR CENT
3. Gradually darken the picture with screen VR, and confirm that color remains glowing on the picture.
4. Apply 140 V DC with regulated power supply to the cathode of the color which remained glowing for cut off color check.
5. Adjust the screen VR so that the back-ground is just cut off.

B BOARD – Component Side –**3-4. WHITE BARANCE ADJUSTMENT**

1. Receive a entire-white signal.
2. Erase the magnetic force using a degausser.
3. R, G, B BKG VR MINIMUM
R, G, B DRIVE VR MAXIMUM
SUB BRIGHT VR CENTER
SUB CONTRAST VR CENTER
BRIGHT VR CENTER
CONTRAST VR MINIMUM
4. Install the senser of analyzer to the center of screen.
5. Set the CONTRAST VR (RV400) to minimum, and adjust BKG VR for optimum white balance of cut off (3 – 4 NIT).
6. Set the CONTRAST VR (RV400) to maximum, and adjust DRIVE VR for optimum white balance of highlight (100 – 105 NIT).
7. Adjust white balance of cut off and highlight several times, and these should be enter inside a standard.
8. Receive a entire-brack signal.
9. BRIGHT VR MAXIMUM
10. Adjust SUB BRIGHT VR (RV002) so that the picture luminance is 1 NIT (0.8 – 1 NIT).
11. Adjust CONTRAST VR (RV001) so that the picture luminance is 120 NIT (115 – 125 NIT).
12. Put back BRIGHT VR to center.

D BOARD – Component Side –**3-5. FOCUS ADJUSTMENT**

1. Receive a character signal.
2. Adjust FOCUS VR so that the focus of entire picture becomes optimum condition.

SECTION 4

SAFETY RELATED ADJUSTMENTS

R524, CONFIRMATION METHOD (HOLD-DOWN CONFIRMATION) AND READJUSTMENTS

When replacing the following components (marked with **█** on the schematic diagram), always perform the adjustments as follows.

IC501, IC502, D502, D505, R514, R515, R518, R519, R522, R524, R526, R527, R528, R531, R541, R543, R547, T500

(1) Preparation before confirmation

1. Turn the POWER switch ON, and receive entirely white signals, and adjust V_{ABL} voltage to 0.47 ± 0.01 V DC with BRIGHT and CONTRAST controls.
2. Confirm that the voltage of 7.9 ± 0.5 V DC appears between pin ① of D-6 connector and ground.

(2) Hold-down operation confirmation

1. Turn the POWER switch ON, and receive entirely dot signals and adjust V_{ABL} voltage to 0.08 V DC with BRIGHT and CONTRAST controls.
2. Using an external DC power supply, apply less than 9.73 V DC between pin ① of D-6 connector and ground and confirm that the hold-down works.
(Raster disappears)

NOTE : When the hold-down circuit starts operating, switch OFF the POWER of the set immediately.

3. Turn the POWER switch ON, and receive entirely white signals and adjust V_{ABL} voltage to 0.47 ± 0.01 V DC with BRIGHT and CONTRAST controls.
4. Using an external DC power supply, apply less than 9.27 V DC between pin ① of D-6 connector and ground and confirm that the hold-down works.
(Raster disappears)

NOTE : When the hold-down circuit starts operating, switch OFF the POWER of the set immediately.

- * Use a digital multimeter whose input impedance over $100 \text{ M}\Omega$ when confirming the voltage of the TP85.

CONFIRMATION WHEN REPLACING R543

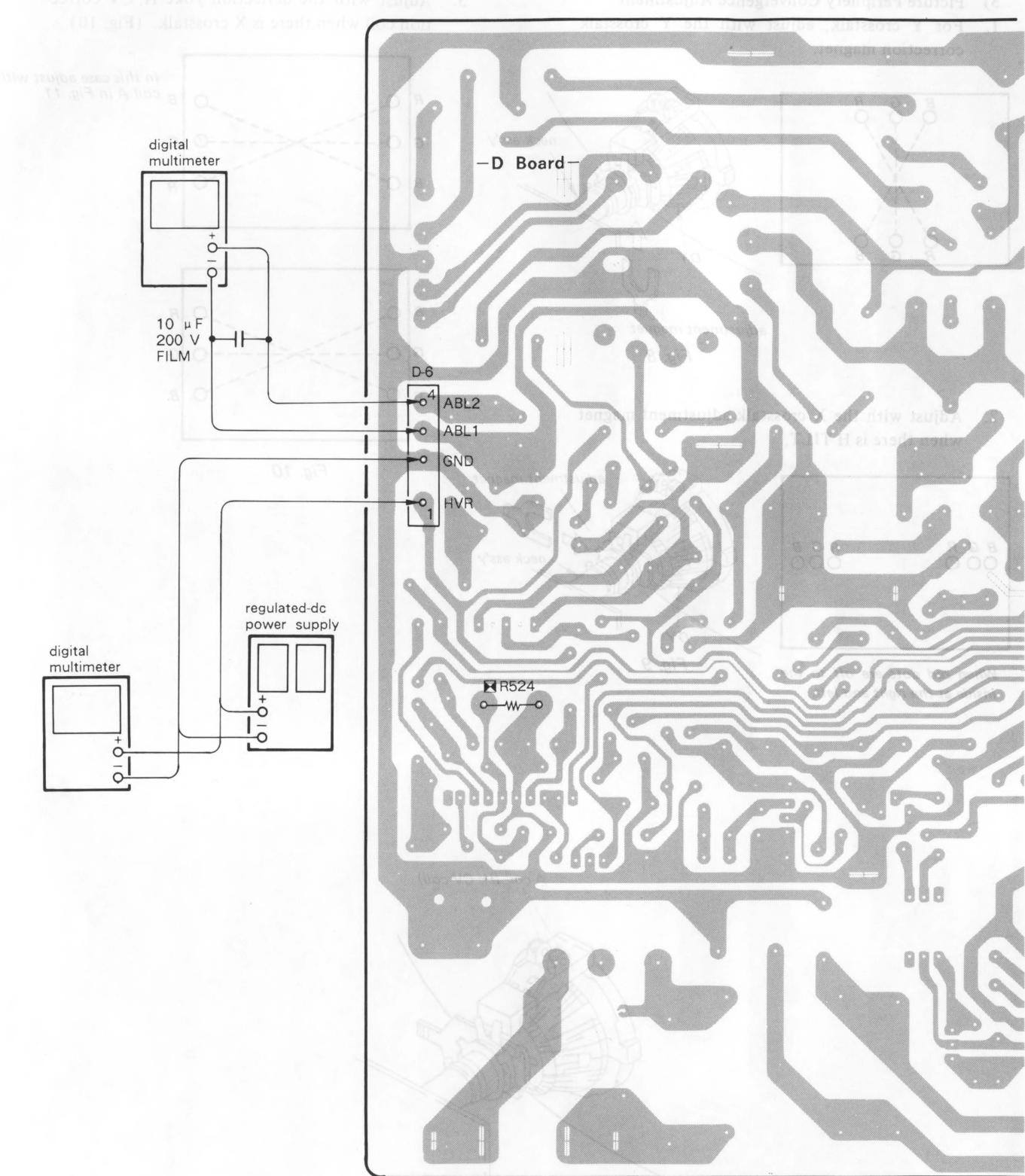
Confirm that R543 is $1.0 \text{ k}\Omega \pm 1\%$ when replacing R543.

CONFIRMATION WHEN REPLACING IC602, R608

Confirm that the voltage of B+ MAX voltage is within the standard value when replacing IC602 and R608.

B+ VOLTAGE CONFIRMATION

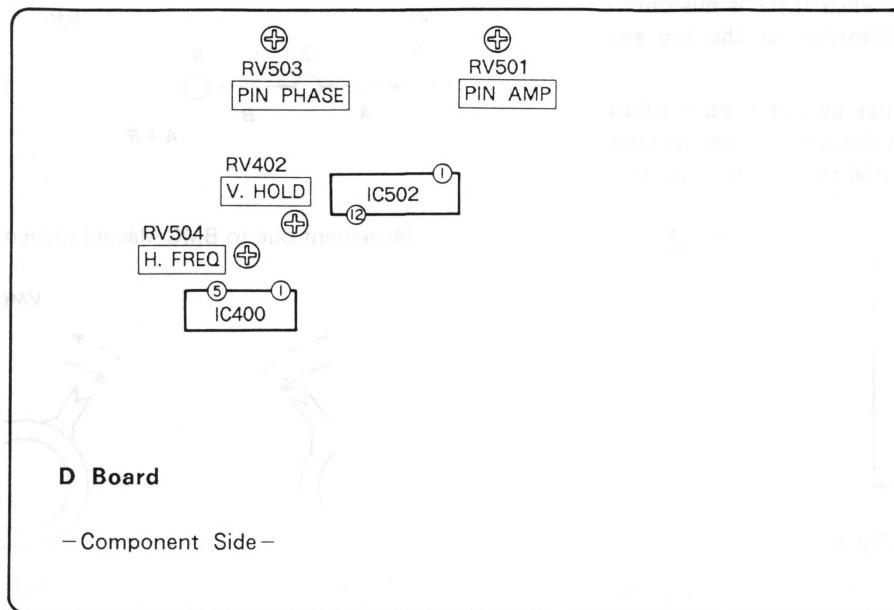
1. Supply 130 ± 2 V AC to with variable auto-transformer.
2. Receive entirely black signals.
3. Set the CONTRAST and BRIGHT control in to minimum.
4. Confirm the voltage of B+ line is less than 121.5 V DC.



SECTION 5

CIRCUIT ADJUSTMENTS

5-1. D BOARD ADJUSTMENTS



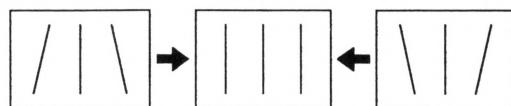
H. FREQ ADJUSTMENT (RV504)

1. Input a no signal.
2. Connect a $10 \mu\text{F}/16\text{ V}$ chemical capacitor between IC502 pin ① and ground.
3. Connect the frequency counter between IC502 pin ⑫ and ground.
4. Adjust RV504 for $31.50 \pm 0.05\text{ kHz}$ on the frequency counter.
5. Disconnect chemical capacitor from IC502.

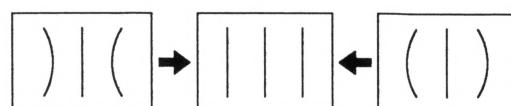
V. FREQ ADJUSTMENT (RV402)

1. Receive a cross-hatch pattern signal.
2. Connect a $10 \mu\text{F}/16\text{ V}$ chemical capacitor between IC400 pin ⑤ and ground.
3. Connect the frequency counter between IC400 pin ① and ground.
4. Adjust RV402 (V. HOLD) for $56.5 \pm 0.5\text{ Hz}$ on the frequency counter.
5. Disconnect chemical capacitor from IC400.

PIN PHASE ADJUSTMENT (RV503)

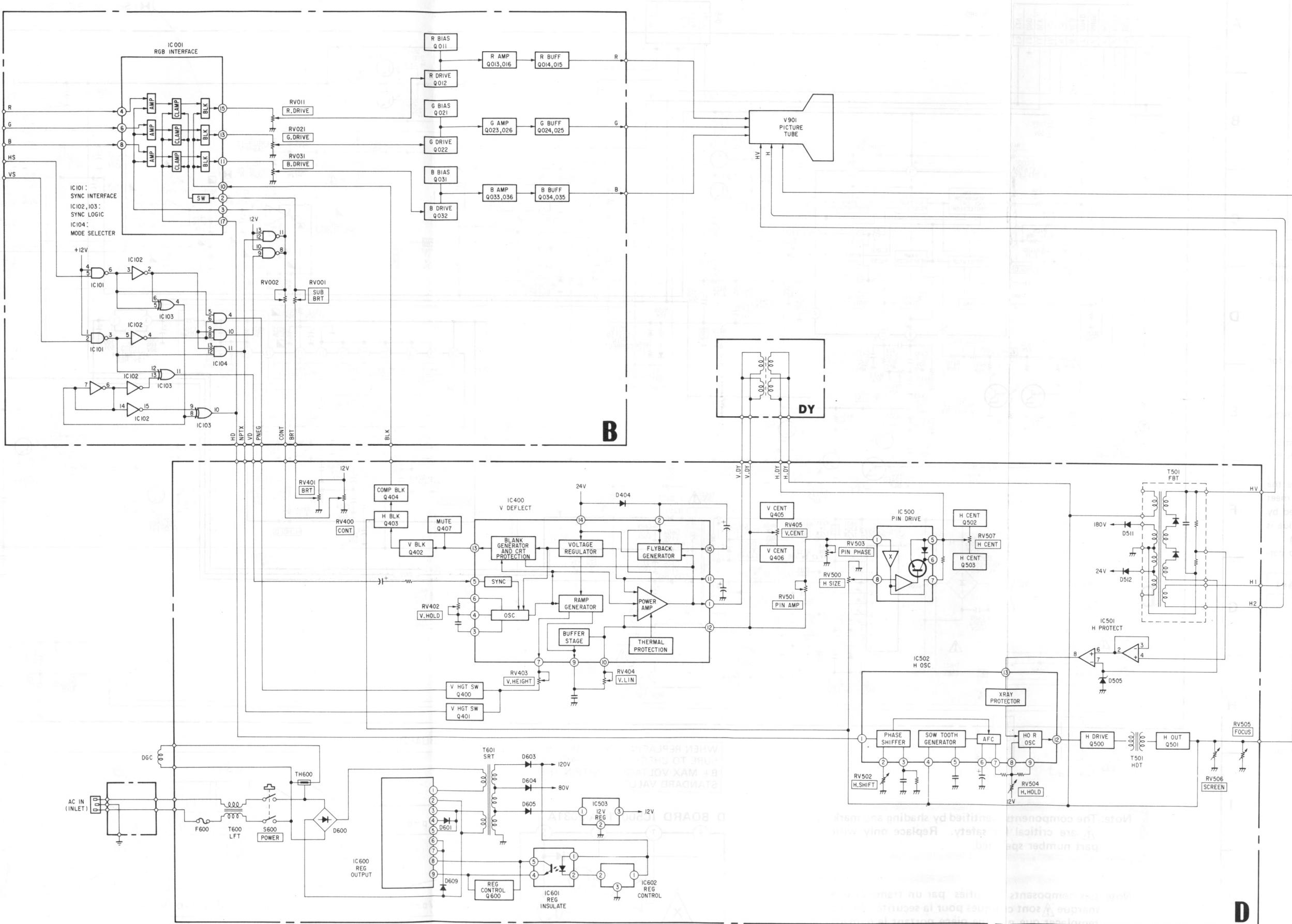


PIN AMP ADJUSTMENT (RV501)

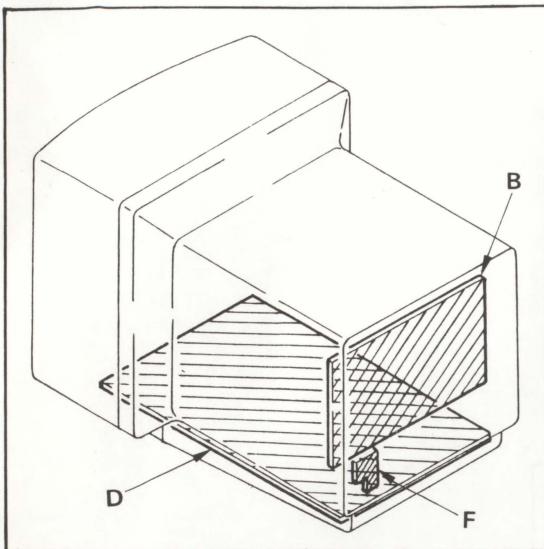


MEMO

MEMO

SECTION 6
DIAGRAMS
6-1. BLOCK DIAGRAM

6-2. CIRCUIT BOARDS LOCATION



Note:

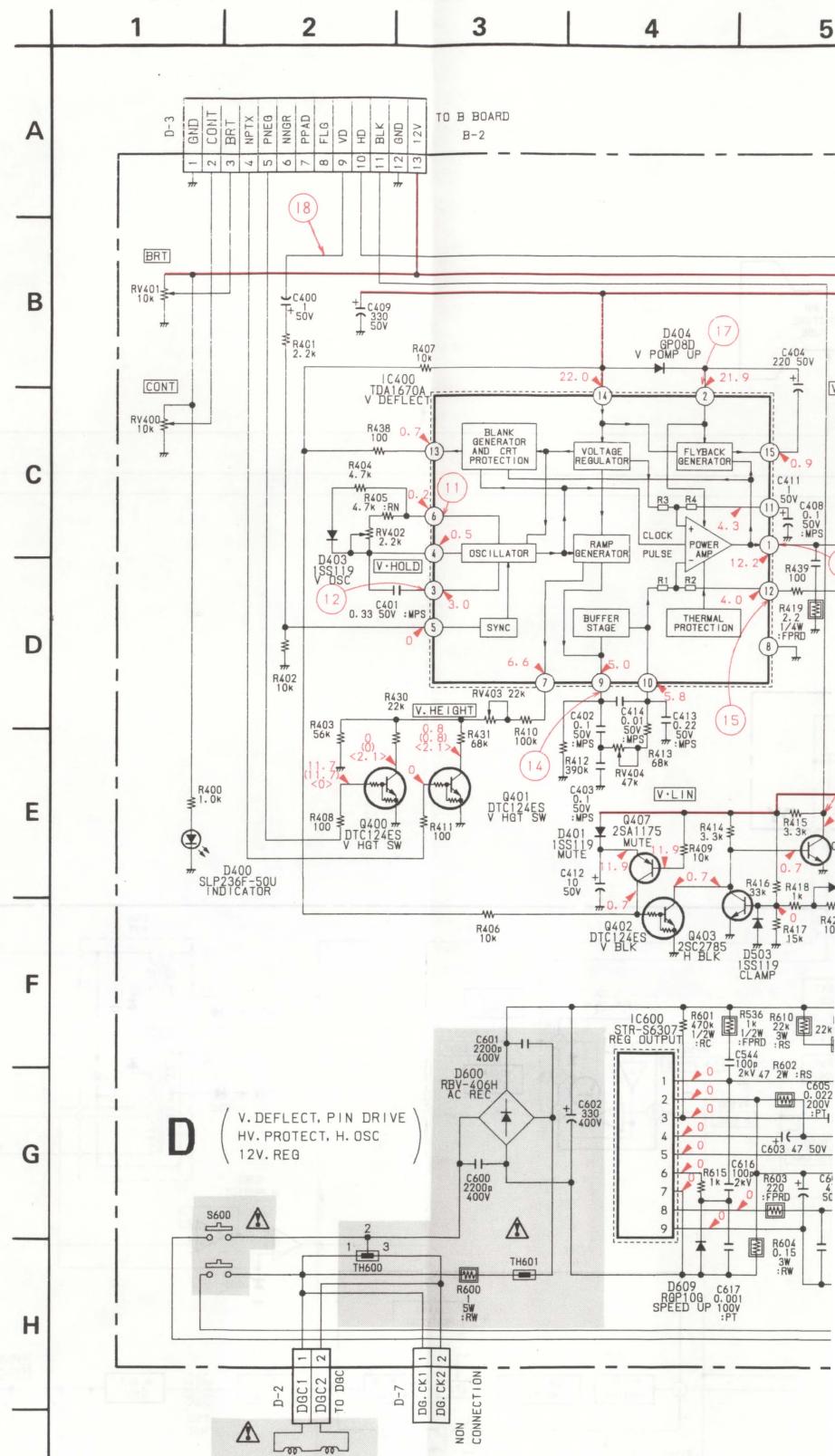
- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms.
- \triangle : internal component.
- \square : nonflammable resistor.
- $\boxed{\quad}$: adjustment for repair.
- Indication of resistance, which does not have one for rating electrical power is as follows.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- The components identified by \blacksquare in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by \blacksquare , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by \blacksquare and repeat the adjustment until the specified value is achieved. (Refer to R524 adjustment on page 12, 13.) When replacing the part in below table, be sure to perform the related adjustment.

Part replaced (\blacksquare)	Adjustment (\blacksquare)
IC501, IC502, D502, D505, R514, R515, R518, R519, R522, R524, R526, R527, R528, R531, R541, R543, R547, T500	R524

- All voltages are in V.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a $10 \text{ M}\Omega$ digital multimeter.
- Readings are taken with a color-bar signal input.
- $\overline{\quad}$: B+ bus.
- Voltage variations may be noted due to normal production tolerances.
- The hold down check point is pin ① of D-6 connector.
- \Rightarrow : signal path.
- Input Signal
VGA
 - TEXT (CGA EMULATE) 31.5 kHz, 70 kHz: no mark
 - EGA EMULATE 31.5 kHz, 70 kHz: ()
 - GRAPHICS 31.5 kHz, 60 kHz: < >
- Sync Polarity

	H	V
TEXT (CGA EMULATE)	Negative	Positive
EGA EMULATE	Positive	Negative
GRAPHICS	Negative	Negative

6-3. SCHEMATIC DIAGRAMS



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

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

STANDARDS LOCATION

6-3. SCHEMATIC DIAGRAMS

in μF unless otherwise noted. μF : $\mu\mu\text{F}$ not indicated except for electrolytics

ohms.

component.

able resistor.

t for repair.

stance, which does not have one for
wer is as follows.

adjustable resistors have characteristic
erwise noted.

Identified by **█** in this basic schematic
n carefully factory-selected for each set
y regulations regarding X-ray radiation.
nt be required, replace only with the
ed.

Components identified by **█**, make the
ents indicated. If results do not meet
e, change the component identified by
adjustment until the specified value is
R524 adjustment on page 12, 13.)
e part in below table, be sure to per-
djustment.

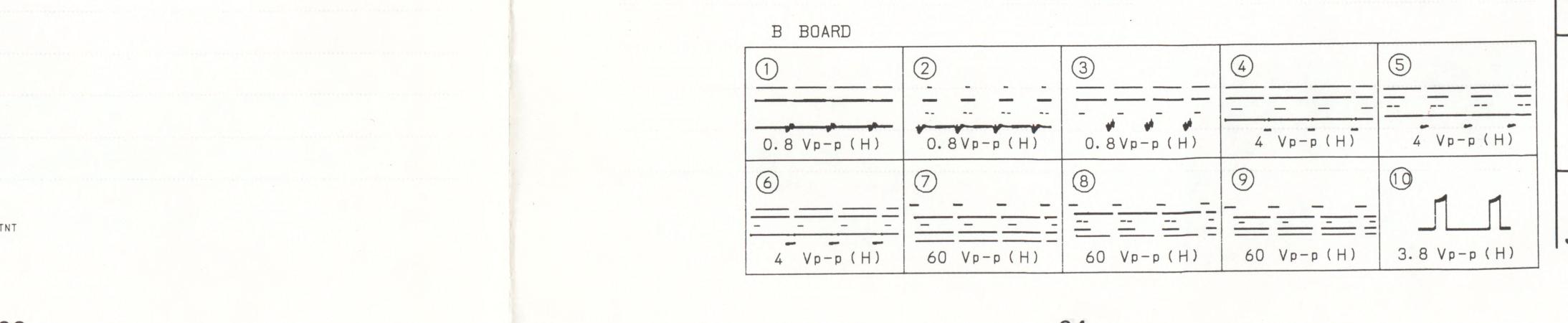
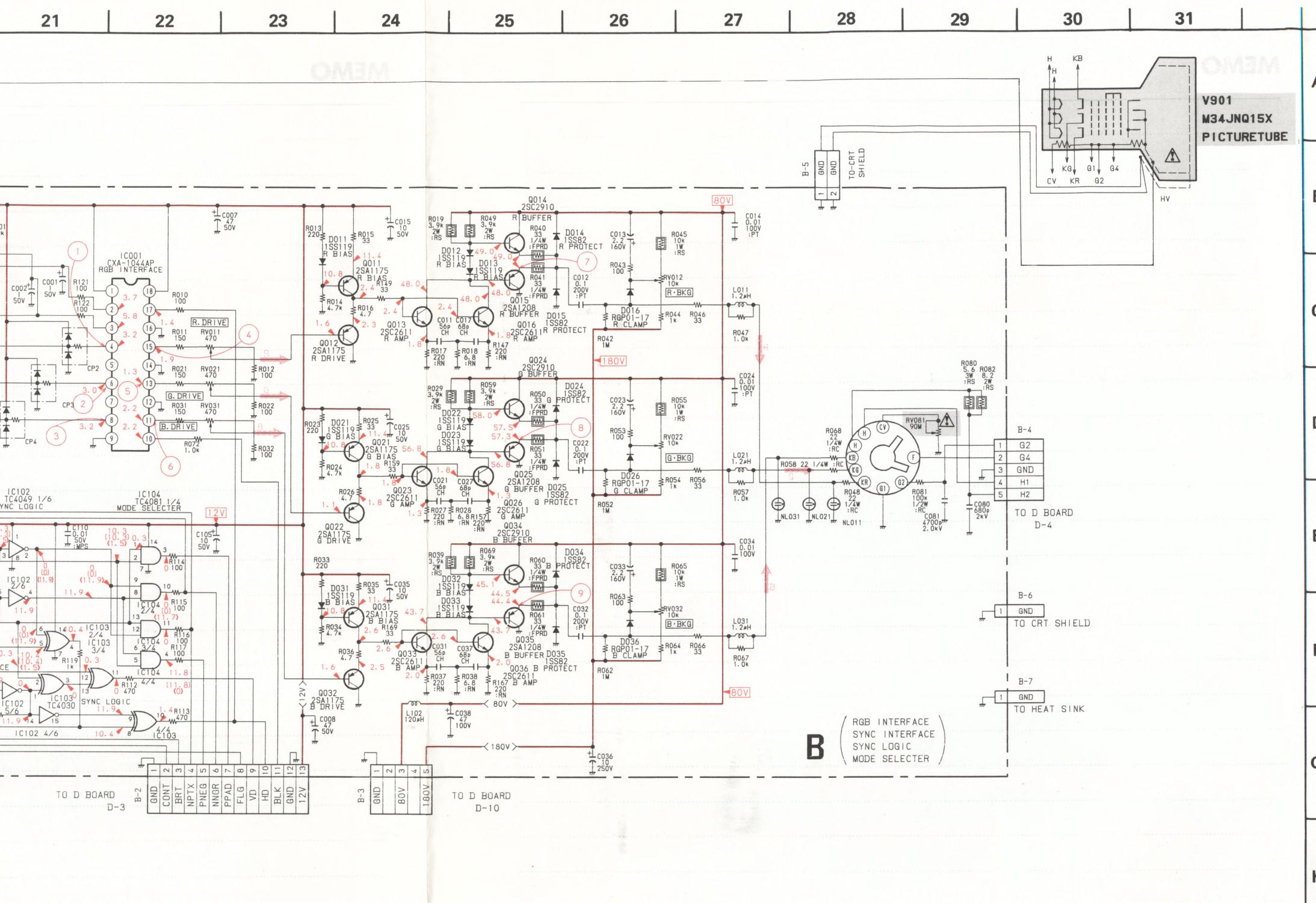
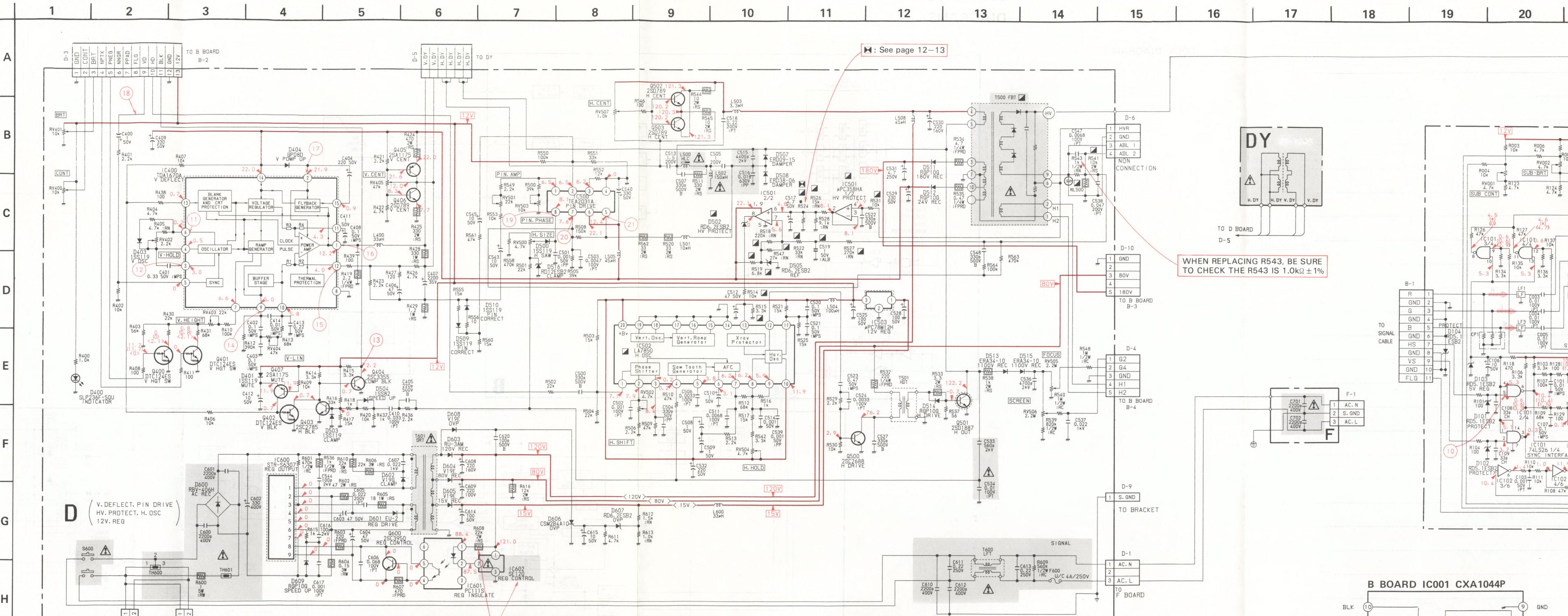
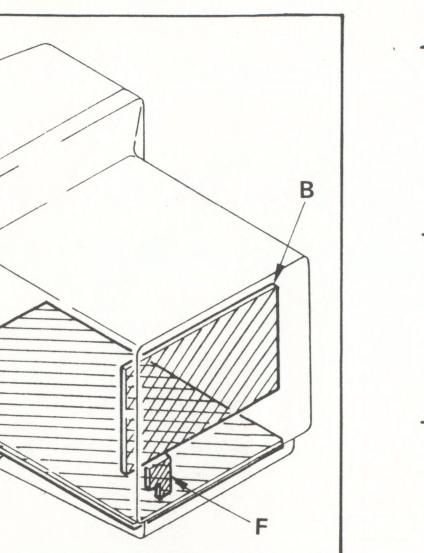
ced (<input checked="" type="checkbox"/>)	Adjustment (<input type="checkbox"/>)
502, D505, R514, 19, R522, R524, 28, R531, R541, 00	R524

V.
with respect to ground unless otherwise
with a $10\text{ M}\Omega$ digital multimeter.

may be noted due to normal produc-

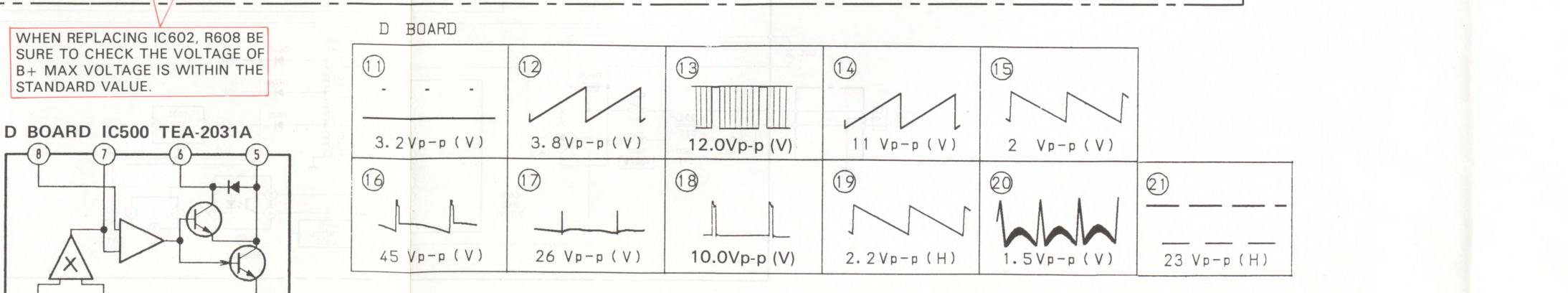
ULATE) 31.5 kHz, 70 kHz: no mark
31.5 kHz, 70 kHz: ()

	H	V	J
MULATE)	Negative	Positive	
E	Positive	Negative	
	Negative	Negative	



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

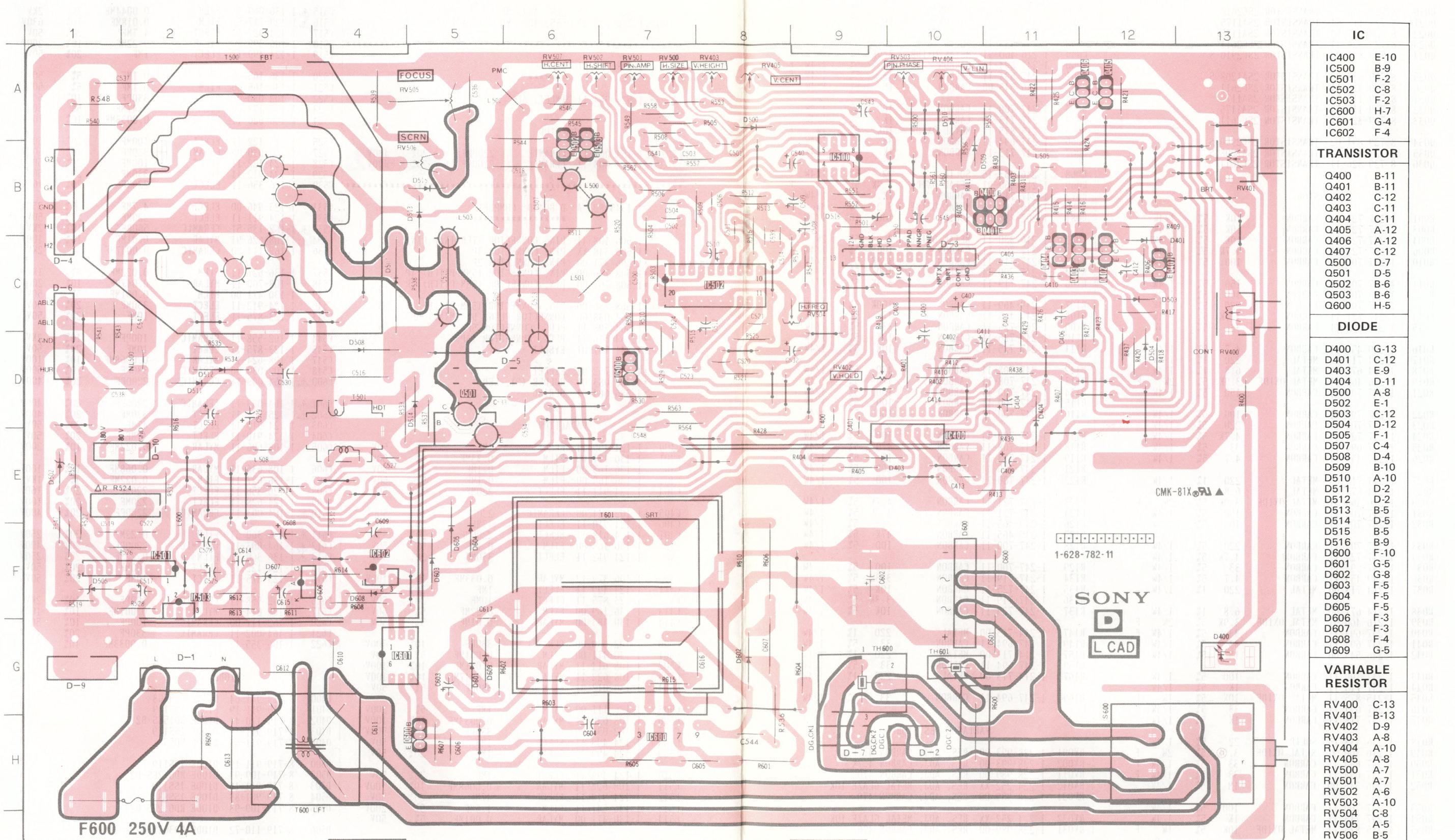
Les composants identifiés par un trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



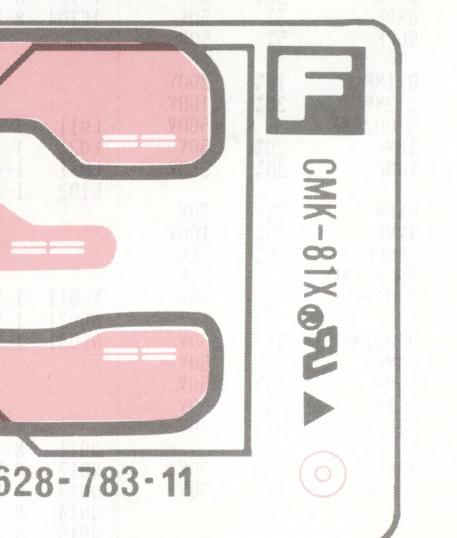
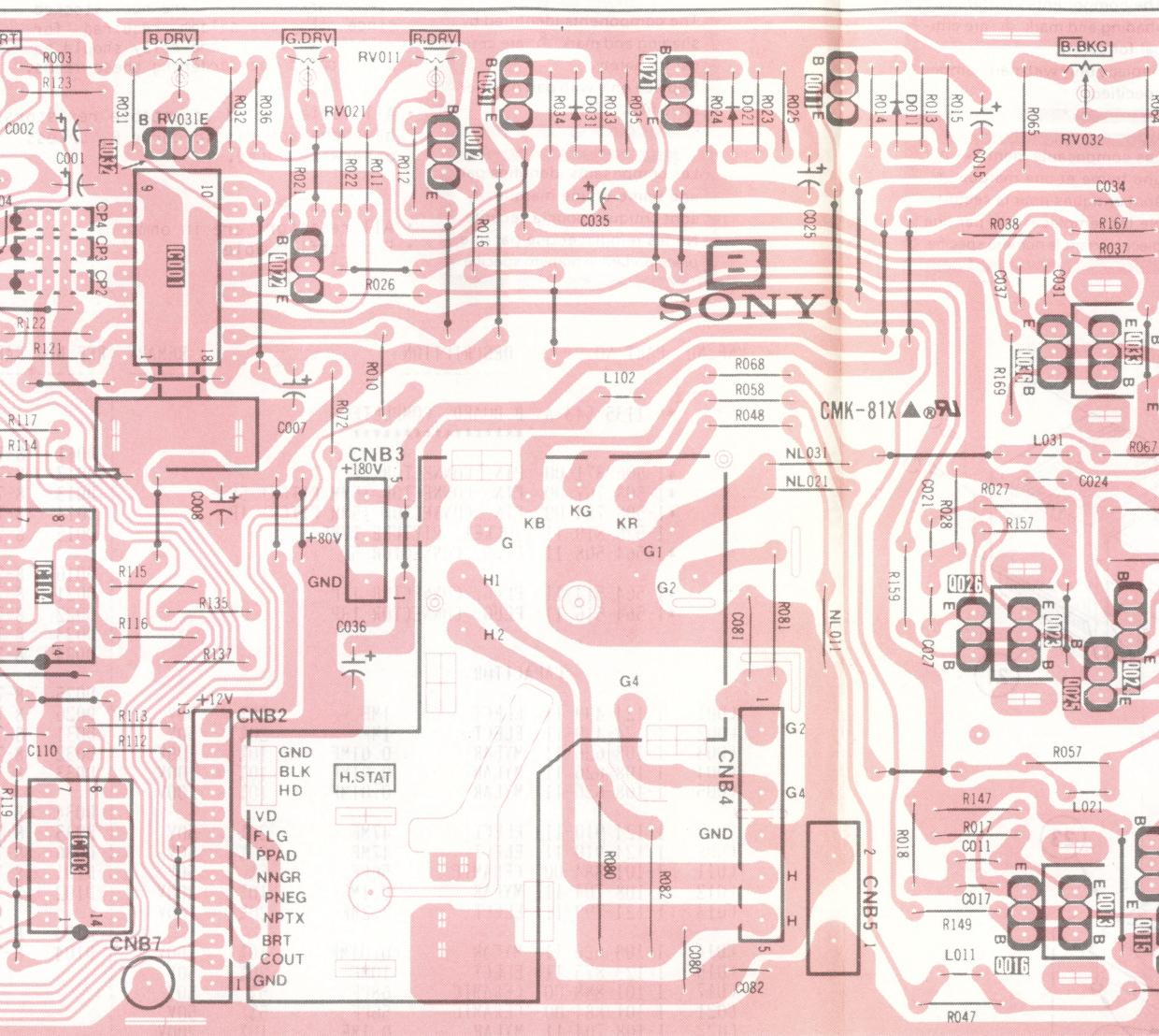
PIN DRIVE
, H. OSC

-4. PRINTED WIRING BOARDS – *Conductor Side* –

D Board –



INTERFACE, SYNC INTERFACE
LOGIC, MODE SELECTER] F



— 10 —

NOTE:
The circuit is
600 Vp-p. Ca-
inspection or

65

SECTION 7
EXPLODED VIEW

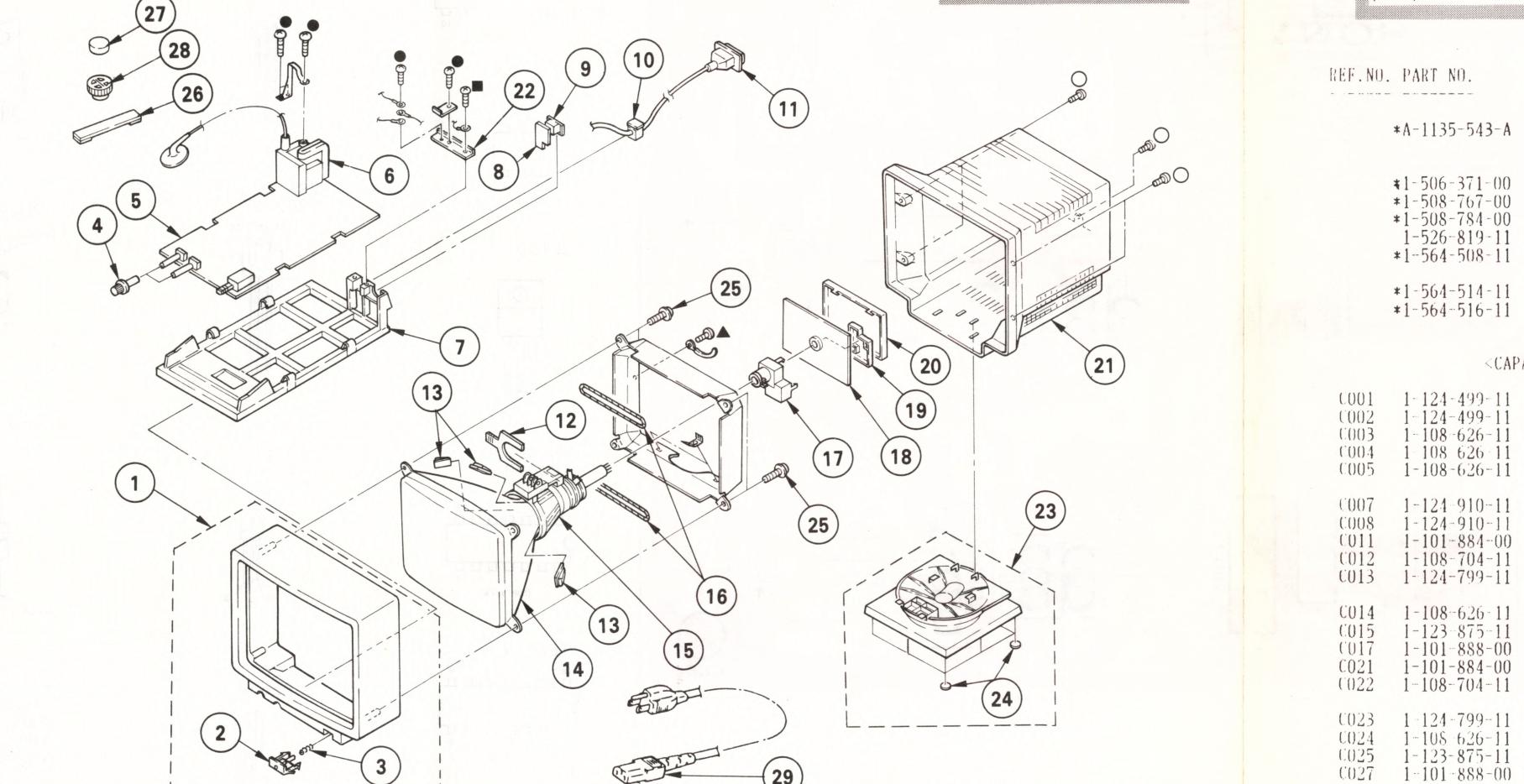
NOTE:
 • Items with no part number and no description are not stocked because they are seldom required for routine service.
 • The construction parts of an assembled part are indicated with a callout number in the remark column.

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

The components identified by shading and mark 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.

- : +BVTP3 x 12 7-685-648-71
- : +P4 x 8 7-682-161-01
- ▲ : +BVTP4 x 8 7-685-659-71
- : +BVTP4 x 16 7-685-663-79



NO.	PART NO.	DESCRIPTION	REMARK	NO.	PART NO.	DESCRIPTION	REMARK
1	X 4392 704-1	BEZEL ASSY	2, 3	15	A-1-451-336-11	DEFLECTION YOKE (SY-175E)	
2	4-392-708-01	BUTTON, POWER		16	A-1-426-146-41	COIL, DEMAGNETIZATION	
3	3-509-046-00	SPRING, COMPRESSION		17	X 4392 701-1	HOLDER ASSY, B PC BOARD	
4	4-392-705-01	KNOB, VR		18	*A-1135-543-A	B BOARD, COMPLETE	
5	*A-1345-823-A	D BOARD, COMPLETE		19	*A-392-704-01	COVER, H.STAT	
6	A-1-439-451-11	TRANSFORMER ASSY, FLYBACK		20	*A-392-718-01	SHIELD	
7	4-392-712-01	BRACKET, D		21	4-392-714-01	CABINET	
8	*1-628-783-11	F BOARD		22	*A-392-717-01	HOLDER, CABLE	
9	A-1-526-954-11	INLET, AC		23	X 4392-703-1	TILT ASSY	24
10	A-1-364-726-01	RUSHING, AC CORD		24	*1-860-711-00	SCREW (5), TAPPING	
11	1-574-130-11	CABLE		25	4-365-808-01	SCREW (5), TAPPING	
12	X 2105-403-3	REINFORCEMENT ASSY, H.TILT		26	X 4308-815-00	PERMALLOY ASSY, CONVERGENCE	
13	3-703-961-01	SPACER, DY		27	1-452-032-00	MAGNET, DISK; 10MM ϕ	
14	A-8-738-251-05	PICTURE TUBE (M34JNQ15X)		28	1-452-032-00	MAGNET, DISK; 15MM ϕ	
29	AJ-557-377-11	CORD, POWER					

SECTION 8
ELECTRICAL PARTS LIST

SECTION 8

ELECTRICAL PARTS LIST

SECTION 8

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

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.

REF. NO.	PART. NO.	DESCRIPTION	REMARK	REF. NO.	PART. NO.	DESCRIPTION	REMARK
D507	8-719-973-95	DIODE ERD09-15		Q502	8-729-378-92	TRANSISTOR 2SD789-4	
D508	8-719-939-07	DIODE ERD38-06		Q503	8-729-378-92	TRANSISTOR 2SD789-4	
D509	8-719-911-19	DIODE ISS119		Q600	8-729-809-21	TRANSISTOR 2SC3950-C	
D510	8-719-911-19	DIODE ISS119					
D511	8-719-925-06	DIODE ERC25-06S					
D512	8-719-925-06	DIODE ERC25-06S					
D513	8-719-974-48	DIODE ERA34-10					
D514	8-719-925-06	DIODE ERC25-06S		R400	1-247-713-11	CARBON	1K 5% 1/4W
D515	8-719-974-48	DIODE ERA34-10		R401	1-247-717-11	CARBON	2.2K 5% 1/4W
D516	8-719-110-31	DIODE RD12ES-T1B2		R402	1-247-725-11	CARBON	10K 5% 1/4W
D600 A. 8-719-311-72		DIODE RBV406H-01		R403	1-249-466-11	CARBON	56K 5% 1/4W
D601	1-806-326-11	DIODE EU2		R404	1-247-721-11	CARBON	4.7K 5% 1/4W
D602	8-719-971-20	DIODE ERC38-06		R405	1-247-721-11	CARBON	4.7K 5% 1/4W
D603	8-719-300-33	DIODE RU-3AM		R406	1-247-725-11	CARBON	10K 5% 1/4W
D604	8-719-971-20	DIODE ERC38-06		R407	1-247-725-11	CARBON	10K 5% 1/4W
D605	8-719-971-20	DIODE ERC38-06		R408	1-247-700-11	CARBON	100 5% 1/4W
D606	8-719-913-64	THYRISTOR CSM2B4A10		R409	1-247-725-11	CARBON	10K 5% 1/4W
D607	8-719-109-93	DIODE RD6.2ES-B2		R410	1-249-469-11	CARBON	100K 5% 1/4W
D608	8-719-971-20	DIODE ERC38-06		R411	1-247-700-11	CARBON	100 5% 1/4W
D609	8-719-925-06	DIODE ERC25-06S		R412	1-246-535-00	CARBON	390K 5% 1/4W
				R413	1-249-467-11	CARBON	68K 5% 1/4W
				R414	1-247-719-11	CARBON	3.3K 5% 1/4W
				R415	1-247-719-11	CARBON	3.3K 5% 1/4W
F600 A. 1-532-600-11		FUSE, GLASS TUBE 4A/250V		R416	1-247-726-11	CARBON	33K 5% 1/4W
1-533-190-11		CLIP, FUSE; F600		R417	1-249-460-11	CARBON	15K 5% 1/4W
				R418	1-247-713-11	CARBON	1K 5% 1/4W
				R419	1-249-451-11	CARBON	2.2 5% 1/4W F
				R420	1-247-725-11	CARBON	10K 5% 1/4W
				R421	1-247-717-11	CARBON	2.2K 5% 1/4W
				R422	1-247-721-11	CARBON	4.7K 5% 1/4W
				R423	1-247-717-11	CARBON	2.2K 5% 1/4W
				R424	1-215-890-11	METAL OXIDE	470 5% 2W F
				R425	1-215-889-00	METAL OXIDE	330 5% 2W F
				R426	1-247-721-11	CARBON	4.7K 5% 1/4W
				R427	1-247-701-11	CARBON	120 5% 1/4W F
				R428	1-215-867-00	METAL OXIDE	470 5% 1W F
				R429	1-216-350-11	METAL OXIDE	1.2 5% 1W F
				R430	1-249-462-11	CARBON	22K 5% 1/4W
				R431	1-249-467-11	CARBON	68K 5% 1/4W
				R436	1-247-717-11	CARBON	2.2K 5% 1/4W
				R437	1-247-713-11	CARBON	1K 5% 1/4W
				R438	1-247-700-11	CARBON	100 5% 1/4W
				R439	1-247-700-11	CARBON	100 5% 1/4W
				R440	1-247-717-11	CARBON	2.2K 5% 1/4W
				R500	1-249-464-11	CARBON	39K 5% 1/4W
				R501	1-249-462-11	CARBON	22K 5% 1/4W
				R502	1-249-462-11	CARBON	22K 5% 1/4W
				R503	1-249-460-11	CARBON	15K 5% 1/4W
				R504	1-249-462-11	CARBON	22K 5% 1/4W
				R505	1-249-464-11	CARBON	39K 5% 1/4W
				R506	1-247-717-11	CARBON	2.2K 5% 1/4W
				R508	1-247-883-00	CARBON	150K 5% 1/4W
				R509	1-249-465-11	CARBON	47K 5% 1/4W
				R510	1-249-465-11	CARBON	47K 5% 1/4W
				R511	1-215-889-00	METAL OXIDE	330 5% 2W F
				R512	1-249-467-11	CARBON	68K 5% 1/4W
				R513	1-247-717-11	CARBON	2.2K 5% 1/4W
				R514	1-247-725-11	CARBON	10K 5% 1/4W
				R515	1-247-719-11	CARBON	3.3K 5% 1/4W
				R516	1-247-713-11	CARBON	1K 5% 1/4W
				R517	1-249-460-11	CARBON	15K 5% 1/4W
				R518	1-214-785-00	METAL	220K 1% 1/4W
				R519	1-247-723-11	CARBON	6.8K 5% 1/4W
				R520	1-215-883-11	METAL OXIDE	33 5% 2W F

D

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

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

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

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK	
R521	1-249-460-11	CARBON	15K 5%	1/4W	RV405	1-230-497-11	RES, ADJ, CARBON 22K	
R522	1-214-765-00	METAL	33K 1%	1/4W	RV500	1-230-720-11	RES, ADJ, CARBON 4.7K	
█ R524 ▲	1-249-460-11	METAL	1/1W	RV501	1-230-497-11	RES, ADJ, CARBON 22K		
R525	1-249-460-11	CARBON	15K 5%	1/4W	RV502	1-230-720-11	RES, ADJ, CARBON 4.7K	
R526	1-214-757-00	METAL	15K 1%	1/4W	RV503	1-230-496-11	RES, ADJ, CARBON 10K	
R527	1-214-787-00	METAL	270K 1%	1/4W	RV504	1-224-251-XX	RES, ADJ, METAL GLAZE 4.7K	
R528	1-214-752-00	METAL	9.1K 1%	1/4W	RV505	1-226-114-00	RES, ADJ, METAL GLAZE 2.2M	
R529	1-247-717-11	CARBON	2.2K 5%	1/4W	RV506	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M	
R530	1-247-725-11	CARBON	10K 5%	1/4W	RV507	1-230-718-11	RES, ADJ, CARBON 1K	
R531	1-247-725-11	CARBON	10K 5%	1/4W				
R532	1-247-704-11	CARBON	220 5%	1/4W F				
R533	1-216-375-00	METAL OXIDE	3.3 5%	2W F				
R534	1-249-455-11	CARBON	4.7 5%	1/4W F				
R535	1-249-443-11	CARBON	0.47 5%	1/4W F				
R536	1-247-752-11	CARBON	1K 5%	1/2W F				
R537	1-247-697-11	CARBON	56 5%	1/4W				
R538	1-215-892-11	METAL OXIDE	1K 5%	2W F				
R539	1-202-849-00	SOLID	820K 10%	1/2W	T500 ▲ 1-439-451-11	TRANSFORMER ASSY, FLYBACK		
R540	1-202-719-00	SOLID	1M 10%	1/2W	T501 1-437-078-00	TRANSFORMER, HORIZONTAL DRIVE		
R541	1-215-898-11	METAL OXIDE	10K 5%	2W F	T600 ▲ 1-421-776-11	LFT		
R542	1-247-719-11	CARBON	3.3K 5%	1/4W	T601 ▲ 1-449-503-11	TRANSFORMER, REGULATOR		
R543	1-214-864-00	METAL	1K 1%	1/2W				
R544	1-215-880-00	METAL OXIDE	10 5%	2W F				
R545	1-215-880-00	METAL OXIDE	10 5%	2W F				
R546	1-247-700-11	CARBON	100 5%	1/4W				
R547	1-214-763-00	METAL	27K 1%	1/4W				
R548	1-202-719-00	SOLID	1M 10%	1/2W				
R549	1-247-717-11	CARBON	2.2K 5%	1/4W				
R550	1-249-469-11	CARBON	100K 5%	1/4W				
R551	1-247-726-11	CARBON	33K 5%	1/4W				
R552	1-249-459-11	CARBON	12K 5%	1/4W				
R553	1-247-725-11	CARBON	10K 5%	1/4W				
R555	1-249-460-11	CARBON	15K 5%	1/4W				
R556	1-247-688-11	CARBON	10 5%	1/4W				
R558	1-247-895-00	CARBON	470K 5%	1/4W				
R560	1-249-460-11	CARBON	15K 5%	1/4W	V901 ▲ 8-738-251-05	PICTURE TUBE (M34JNQ15X)		
R561	1-249-465-11	CARBON	47K 5%	1/4W				
R562	1-215-883-11	METAL OXIDE	33 5%	2W F				
R563	1-247-895-00	CARBON	470K 5%	1/4W				
R564	1-249-469-11	CARBON	100K 5%	1/4W				
R600 ▲	1-217-286-11	WIREWOUND	1 10%	5W F				
R601	1-202-846-00	SOLID	470K 10%	1/2W	PART NO.	DESCRIPTION	REMARK	
R602	1-215-884-11	METAL OXIDE	47 5%	2W F				
R603	1-247-704-11	CARBON	220 5%	1/4W F				
R604	1-207-642-00	WIREWOUND	0.15 10%	3W F				
R605	1-216-422-91	METAL OXIDE	18 5%	1W F				
R606	1-215-925-11	METAL OXIDE	22K 5%	3W F				
R607	1-247-708-11	CARBON	470 5%	1/4W F				
R608	1-215-900-11	METAL OXIDE	22K 5%	2W F				
R609 ▲	1-202-847-91	SOLID	560K 10%	1/2W				
R610	1-215-925-11	METAL OXIDE	22K 5%	3W F				
R611	1-247-721-11	CARBON	4.7K 5%	1/4W				
R612	1-214-733-00	METAL	1.5K 1%	1/4W				
R613	1-214-729-00	METAL	1K 1%	1/4W				
R615	1-247-713-11	CARBON	1K 5%	1/4W				
R616	1-216-463-00	METAL OXIDE	12K 5%	2W F				

> VARIABLE RESISTOR <

RV400	1-238-449-21	RES, VAR, CARBON 10K
RV401	1-238-449-21	RES, VAR, CARBON 10K
RV402	1-224-250-XX	RES, ADJ, METAL GLAZE 2.2K
RV403	1-230-498-11	RES, ADJ, CARBON 47K
RV404	1-230-498-11	RES, ADJ, CARBON 47K

Sony Corporation
TV Group

SONY® SERVICE MANUAL

SUPPLEMENT-1

*US Model
Canadian Model*

*Serial No. 5,001,001 and later
CHASSIS No. SCC-C39A-A*

SUBJECT: CIRCUIT MODIFICATION

File this supplement with the service manual.

INTRODUCTIONS

1. Circuit adjustment added.

2. Circuit modified.

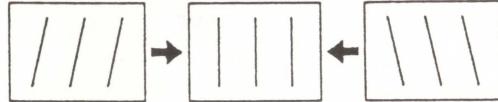
B Board.

D Board.

█ : Indicate modified portion

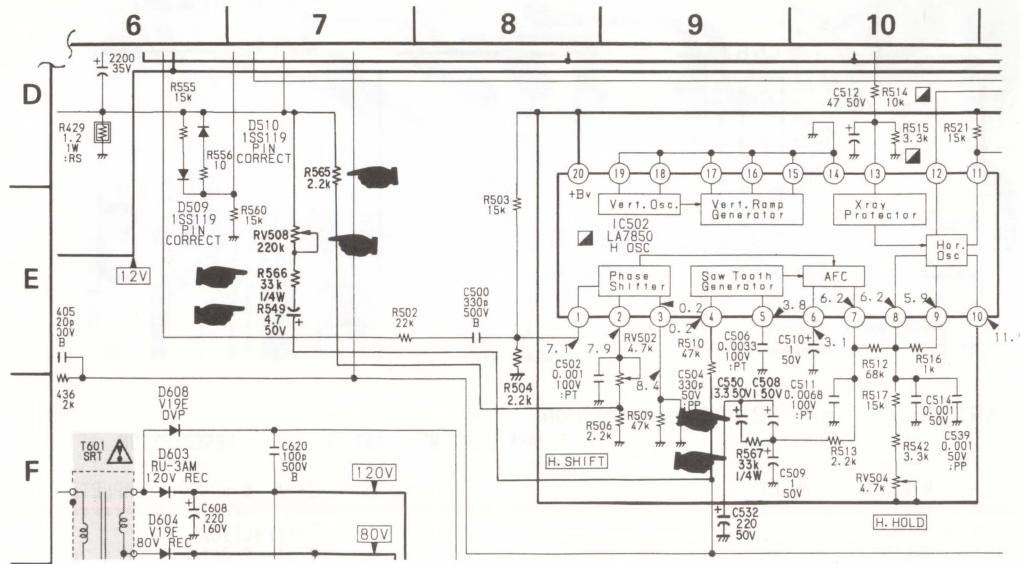
5-1. D BOARD ADJUSTMENTS: Page 14 of Service manual.

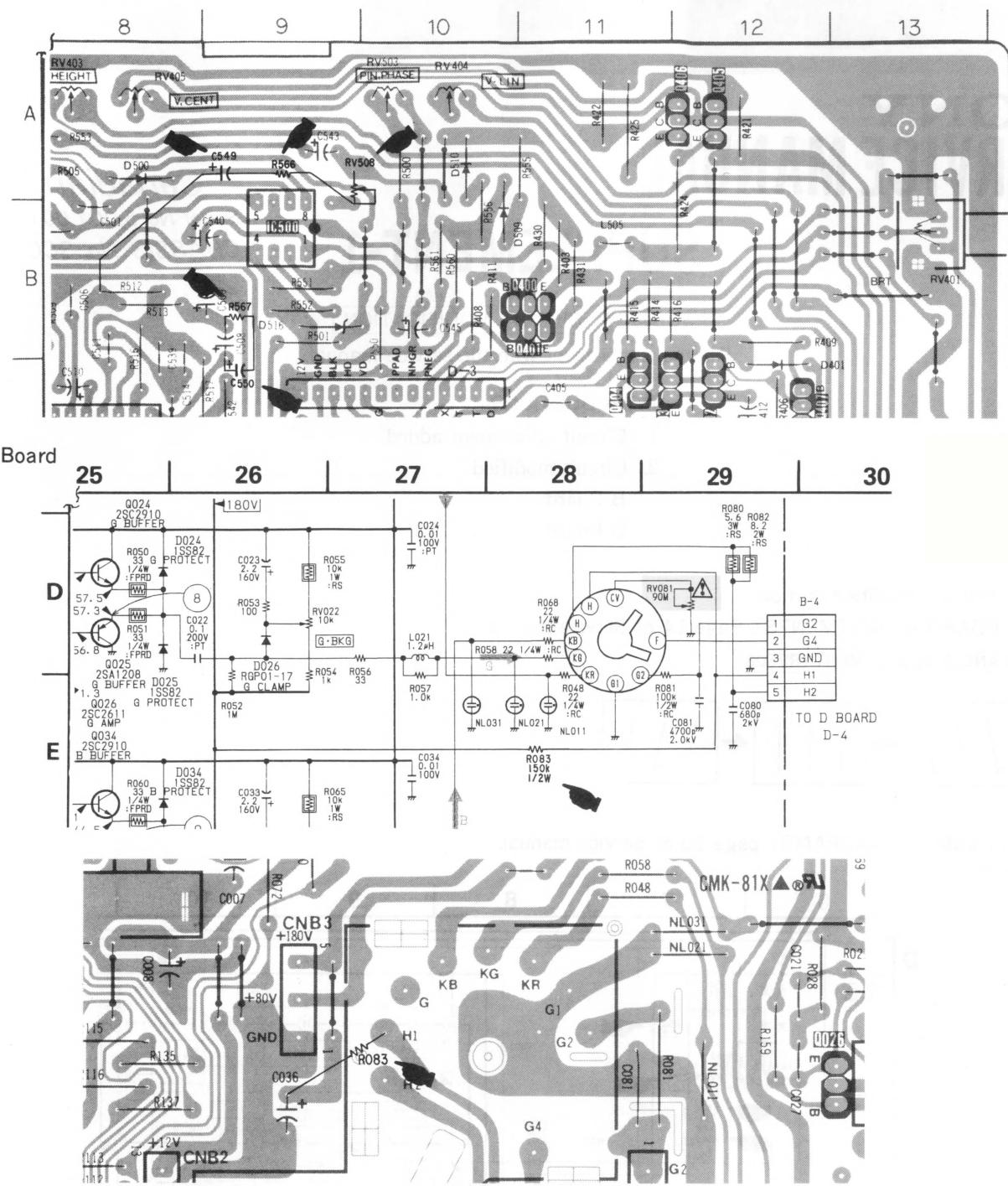
V.ANGLE ADJUSTMENT (RV508)



6-3. SCHEMATIC DIAGRAMS: page 20 of Service manual.

D Board





ELECTRICAL PARTS LIST: Page 32 of Service manual.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
*A-1135-543-A	B BOARD, COMPLETE	*****		*A-1345-823-A	D BOARD, COMPLETE	*****	
	<RESISTOR>				<CAPACITOR>		
R083	1-202-840-00	SOLID	150K 10% 1/2W	C549	1-124-927-11	ELECT	4.7MF 20%
				C550	1-123-382-00	ELECT	3.3MF 20%
	<RESISTOR>				<RESISTOR>		
				R565	1-247-717-11	CARBON	2.2K 5%
				R566	1-247-726-11	CARBON	33K 5%
				R567	1-247-726-11	CARBON	33K 5%
						<VARIABLE RESISTOR>	
				RV508	1-228-998-00	RES, ADJ CARBON 220K	

Sony Corporation
TV Group

CPD-1320

SONY® SERVICE MANUAL

US Model Canadian Model

Serial No. 505201 and Leter
Chassis No. SCC-C39A-A

SUPPLEMENT-2

SUBJECT : D BOARD CIRCUIT MODIFICATION

File this supplement with the Service Manual.



MICROFILM

SECTION 6 DIAGRAMS

TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Page</u>
6. DIAGRAMS		
6-3. Schematic Diagrams	3	
6-4. Printed Wiring Board	5	
8. ELECTRICAL PARTS LIST	7	

Note:

- All capacitors are in μF unless otherwise noted. pF: $\mu\mu\text{F}$ 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms.
- \triangle : internal component.
- : nonflammable resistor.
- : adjustment for repair.
- Indication of resistance, which does not have one for rating electrical power is as follows.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- The components identified by in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by and repeat the adjustment until the specified value is achieved. (Refer to R524 adjustment on page 12, 13.) When replacing the part in below table, be sure to perform the related adjustment.

Part replaced ()	Adjustment ()
IC501, IC502, D502, D505, R514, R515, R518, R519, R522, R524, R526, R527, R528, R531, R541, R543, R547, T500	R524

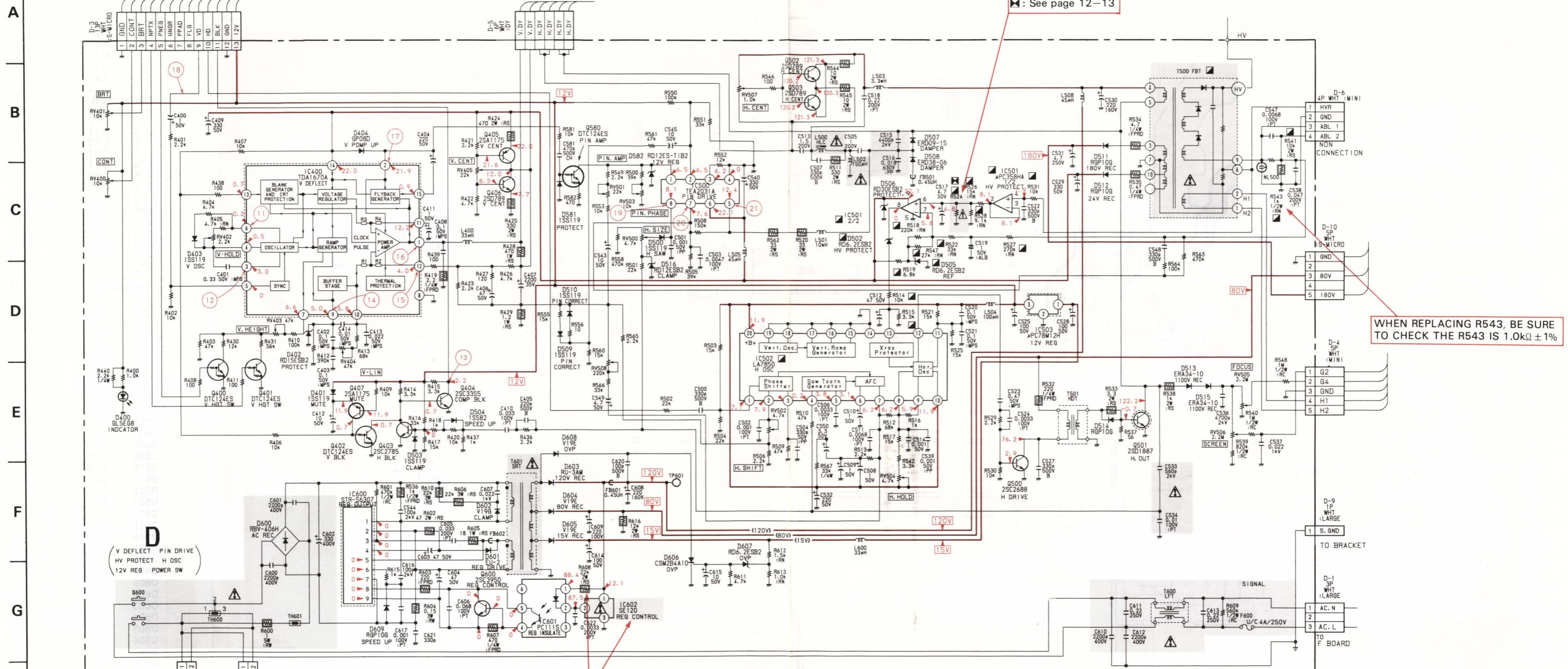
- All voltages are in V
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a $10 \text{ M}\Omega$ digital multimeter.
- Readings are taken with a color-bar signal input.
- : B+ bus.
- Voltage variations may be noted due to normal production tolerances.
- The hold down check point is pin (1) of D-6 connector.
- : signal path.
- Input Signal
 - VGA
 - TEXT (CGA EMULATE) 31.5 kHz, 70 kHz: no mark
 - EGA EMULATE 31.5 kHz, 70 kHz: ()
 - GRAPHICS 31.5 kHz, 60 kHz: < >
 - Sync Polarity

	H	V
TEXT (CGA EMULATE)	Negative	Positive
EGA EMULATE	Positive	Negative
GRAPHICS	Negative	Negative

2

6-3. SCHEMATIC DIAGRAMS

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15



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

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

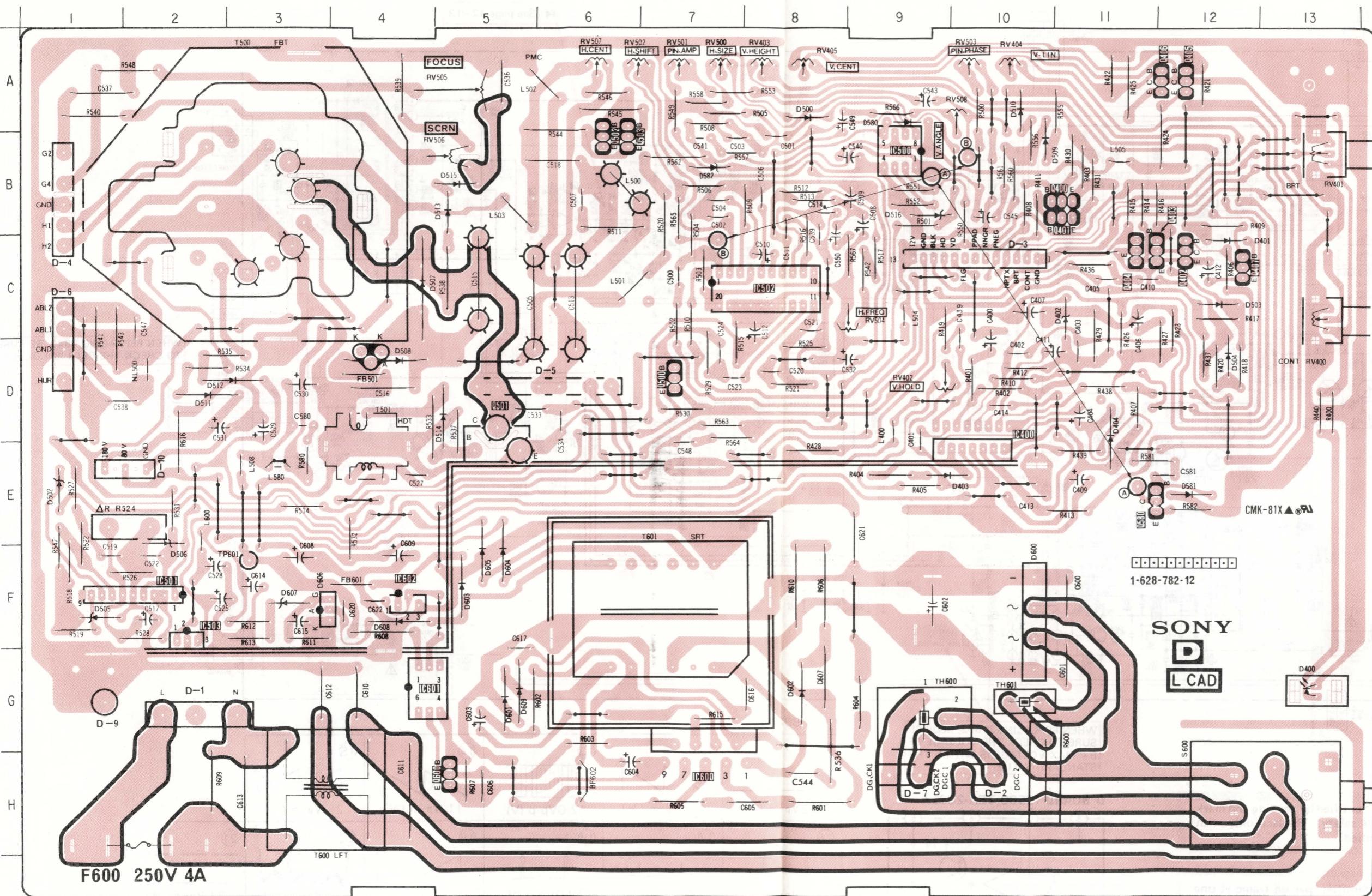
D V. DEFLECT, PIN DRIVE
HV. PROTECT, H, OSC
12V. REG

NOTE:

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

6-4. PRINTED WIRING BOARD —Conductor Side—

—D Board—



	IC
IC400	E-15
IC500	B-9
IC501	F-2
IC502	C-8
IC503	F-2
IC600	H-7
IC601	G-4
IC602	F-4
	TRANSISTOR
Q400	B-11
Q401	B-11
Q402	C-12
Q403	C-11
Q404	C-11
Q405	A-12
Q406	A-12
Q407	C-12
Q500	D-7
Q501	D-5
Q502	B-6
Q503	B-6
Q580	E-11
Q600	H-5
	DIODE
D400	G-13
D401	C-12
D402	C-11
D403	E-9
D404	D-11
D500	A-8
D502	E-1
D503	C-12
D504	D-12
D505	F-1
D506	F-2
D507	C-4
D508	D-4
D509	B-10
D510	A-10
D511	D-2
D512	D-3
D513	B-5
D514	D-5
D515	B-5
D516	B-9
D517	E-12
D518	B-7
D519	F-10
D600	G-5
D602	G-8
D603	F-5
D604	F-5
D605	F-5
D606	F-3
D607	F-3
D608	F-4
D609	F-5
	VARIABLE RESISTOR
RV400	C-13
RV401	B-13
RV402	D-9
RV403	A-8
RV404	A-10
RV405	A-8
RV500	A-7
RV501	A-7
RV502	A-6
RV503	A-10
RV504	C-9
RV505	A-5
RV506	B-5
RV507	A-6
RV508	A-10

SECTION 8

ELECTRICAL PARTS LIST

D

NOTE:

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

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

RESISTORS

- All resistors are in ohms
- F : nonflammable

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

CAPACITORS COILS

- MF : μF , PF : $\mu\mu\text{F}$ MMH : mH , UH : μH
- The components identified by **■** in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- * : Selected to yield optimum performance.

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

Les composants identifiés par une trame et par une marque **A** sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
*A-1345-823-A D BOARD, COMPLETE							
		*****		C525	1-124-122-11	ELECT	100MF 20% 50V
4-309-378-00	WASHER			C527	1-102-030-00	CERAMIC	330PF 10% 500V
*4-341-751-01	EYELET			C528	1-124-122-11	ELECT	100MF 20% 50V
*4-341-752-01	EYELET			C529	1-124-912-11	ELECT	330MF 20% 50V
*4-380-083-01	HOLDER (E), LED			C530	1-126-356-11	ELECT	220MF 20% 160V
*4-386-664-01	SPRING			C531	1-123-946-00	ELECT	4.7MF 20% 250V
*4-392-731-01	COVER, SHORT RING			C532	1-124-911-11	ELECT	220MF 20% 50V
				C533 A. 1-162-135-51	CERAMIC	560PF 10% 2KV	
				C534 A. 1-108-626-91	MYLAR	0.01MF 10% 100V	
				C536	1-162-114-00	CERAMIC	0.0047MF 2KV
<CAPACITOR>							
C400	1-124-499-11	ELECT	1MF 20% 50V	C537	1-136-627-11	FILM	0.022MF 3% 1KV
C401	1-136-171-00	FILM	0.33MF 5% 50V	C538	1-108-700-11	MYLAR	0.047MF 10% 200V
C402	1-136-165-00	FILM	0.1MF 5% 50V	C539	1-130-471-00	FILM	0.001MF 5% 50V
C403	1-136-165-00	FILM	0.1MF 5% 50V	C540	1-124-912-11	ELECT	330MF 20% 50V
C404	1-124-911-11	ELECT	220MF 20% 50V	C543	1-123-875-11	ELECT	10MF 20% 50V
C405	1-102-244-00	CERAMIC	220PF 10% 500V	C544	1-162-558-11	CERAMIC	100PF 10% 2KV
C406	1-124-910-11	ELECT	47MF 20% 50V	C545	1-123-875-11	ELECT	10MF 20% 50V
C407	1-124-618-11	ELECT	2200MF 20% 35V	C547	1-108-624-11	MYLAR	0.0068MF 10% 100V
C408	1-136-165-00	FILM	0.1MF 5% 50V	C548	1-102-030-00	CERAMIC	330PF 10% 500V
C409	1-124-912-11	ELECT	330MF 20% 50V	C549	1-124-927-11	ELECT	4.7MF 20% 50V
C410	1-106-379-12	MYLAR	0.033MF 10% 100V	C550	1-123-382-00	ELECT	3.3MF 20% 50V
C411	1-124-499-11	ELECT	1MF 20% 50V	C581	1-102-228-00	CERAMIC	470PF 10% 500V
C412	1-123-875-11	ELECT	10MF 20% 50V	C600 A. 1-164-003-11	CERAMIC	2200PF 20% 400V	
C413	1-136-157-00	FILM	0.022MF 5% 50V	C601 A. 1-164-003-11	CERAMIC	2200PF 20% 400V	
C414	1-130-483-00	MYLAR	0.01MF 5% 50V	C602 A. 1-125-555-11	ELECT	330MF 20% 400V	
C500	1-102-030-00	CERAMIC	330PF 10% 500V	C603	1-124-910-11	ELECT	47MF 20% 50V
C501	1-130-471-00	FILM	0.001MF 5% 50V	C604	1-124-910-11	ELECT	47MF 20% 50V
C502	1-108-614-11	MYLAR	0.001MF 10% 100V	C605	1-108-698-11	MYLAR	0.033MF 10% 200V
C503	1-108-622-11	MYLAR	0.0047MF 10% 100V	C606	1-108-636-11	MYLAR	0.068MF 10% 100V
C504	1-130-012-00	FILM	330PF 5% 50V	C607	1-136-627-11	FILM	0.022MF 3% 1KV
C505	1-136-111-00	FILM	1MF 5% 200V	C608	1-126-356-11	ELECT	220MF 20% 160V
C506	1-108-620-11	MYLAR	0.0033MF 10% 100V	C609	1-124-628-11	ELECT	220MF 20% 100V
C507	1-102-030-00	CERAMIC	330PF 10% 500V	C610 A. 1-164-003-11	CERAMIC	2200PF 20% 400V	
C508	1-124-499-11	ELECT	1MF 20% 50V	C611 A. 1-136-360-51	FILM	0.22MF 20% 250V	
C509	1-124-499-11	ELECT	1MF 20% 50V	C612 A. 1-164-003-11	CERAMIC	2200PF 20% 400V	
C510	1-124-499-11	ELECT	1MF 20% 50V	C613 A. 1-136-360-51	FILM	0.22MF 20% 250V	
C511	1-108-624-11	MYLAR	0.0068MF 10% 100V	C614	1-124-122-11	ELECT	100MF 20% 50V
C512	1-124-910-11	ELECT	47MF 20% 50V	C615	1-123-875-11	ELECT	10MF 20% 50V
C513	1-136-541-11	FILM	1.5MF 5% 200V	C616	1-162-558-11	CERAMIC	100PF 10% 2KV
C514	1-130-471-00	MYLAR	0.001MF 5% 50V	C617	1-108-614-11	MYLAR	0.001MF 10% 100V
C515 A. 1-136-069-11	FILM	0.0044MF 3% 2KV	C620	1-162-117-00	CERAMIC	100PF 10% 500V	
C516 A. 1-129-717-51	FILM	0.018MF 10% 630V	C621	1-164-002-11	CERAMIC	330PF 20% 400V	
C517	1-124-927-11	ELECT	4.7MF 20% 50V	C622	1-106-355-12	MYLAR	0.0033MF 10% 200V
C518	1-106-399-00	MYLAR	0.22MF 10% 200V				
C519	1-124-499-11	ELECT	1MF 20% 50V				
<CONNECTOR>							
C520	1-136-165-00	FILM	0.1MF 5% 50V	D1	*1-506-348-99	PIN, CONNECTOR 3P	
C521	1-136-165-00	FILM	0.1MF 5% 50V	D2	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P	
C522	1-102-030-00	CERAMIC	330PF 10% 500V	D3	*1-564-516-11	PLUG, CONNECTOR 13P	
C523	1-136-173-00	FILM	0.47MF 5% 50V	D4	*1-508-767-00	PIN, CONNECTOR (5MM PITCH) 5P	
C524	1-108-620-11	MYLAR	0.0033MF 10% 100V	D5	*1-564-038-00	CONNECTOR PLUG, DY (MINI) 6P	

D

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK				
D6	*1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P		IC500	8-759-942-16	IC TEA2031A					
D7	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P		IC501	8-759-144-17	IC UPC358HA					
D8	*1-506-371-00	PIN, CONNECTOR 2P		IC502	8-759-821-42	IC LA7851					
D10	*1-564-508-11	PLUG, CONNECTOR 5P		IC503	8-759-604-39	IC M5F78M12					
<DIODE>											
D400	8-719-941-64	DIODE GL5EG8		IC600	8-749-920-67	IC STR-S6307					
D401	8-719-911-19	DIODE ISS119		IC601	8-719-939-00	DIODE PC111S					
D402	8-719-110-41	DIODE RD15ES-B2		IC602 ^A	8-749-920-68	IC SE-120N					
D403	8-719-911-19	DIODE ISS119		<NEON LAMP>							
D404	8-719-911-55	DIODE U05G		NL500	1-519-108-99	LAMP, NEON					
D500	8-719-911-19	DIODE ISS119		<TRANSISTOR>							
D502	8-719-109-93	DIODE RD6.2ES-B2		Q400	8-729-900-36	TRANSISTOR DTC124ES					
D503	8-719-911-19	DIODE ISS119		Q401	8-729-900-36	TRANSISTOR DTC124ES					
D504	8-719-901-83	DIODE ISS83		Q402	8-729-900-36	TRANSISTOR DTC124ES					
D505	8-719-109-93	DIODE RD6.2ES-B2		Q403	8-729-119-78	TRANSISTOR 2SC2785-HFE					
D506	8-719-110-72	DIODE RD30ES-B2		Q404	8-729-104-80	TRANSISTOR 2SC3355					
D507	8-719-973-95	DIODE ERD09-15		Q405	8-729-119-76	TRANSISTOR 2SA1175-HFE					
D508	8-719-939-07	DIODE ERD38-06		Q406	8-729-320-62	TRANSISTOR 2SD789-34					
D509	8-719-911-19	DIODE ISS119		Q407	8-729-119-76	TRANSISTOR 2SA1175-HFE					
D510	8-719-911-19	DIODE ISS119		Q500	8-729-119-80	TRANSISTOR 2SC2688-LK					
D511	8-719-300-33	DIODE RU-3AM		Q501	8-729-805-07	TRANSISTOR 2SD1887-CA					
D512	8-719-300-33	DIODE RU-3AM		Q502	8-729-320-62	TRANSISTOR 2SD789-34					
D513	8-719-974-48	DIODE ERA34-10		Q503	8-729-320-62	TRANSISTOR 2SD789-34					
D514	8-719-300-33	DIODE RU-3AM		Q580	8-729-900-36	TRANSISTOR DTC124ES					
D515	8-719-974-48	DIODE ERA34-10		Q600	8-729-809-22	TRANSISTOR 2SC3950-D					
D516	8-719-110-31	DIODE RD12ES-B2		<RESISTOR>							
D581	8-719-911-19	DIODE ISS119		R400	1-247-713-11	CARBON	1K	5%	1/4W		
D582	8-719-110-31	DIODE RD12ES-B2		R401	1-247-717-11	CARBON	2.2K	5%	1/4W		
D600 ^A	8-719-305-07	DIODE RBV-406H		R402	1-247-725-11	CARBON	10K	5%	1/4W		
D601	1-806-326-11	DIODE EU2		R403	1-249-465-11	CARBON	47K	5%	1/4W		
D602	8-719-971-20	DIODE ERC38-06		R404	1-247-721-11	CARBON	4.7K	5%	1/4W		
D603	8-719-300-33	DIODE RU-3AM		R405	1-214-745-00	METAL	4.7K	1%	1/4W		
D604	8-719-971-20	DIODE ERC38-06		R406	1-247-725-11	CARBON	10K	5%	1/4W		
D605	8-719-971-20	DIODE ERC38-06		R407	1-247-725-11	CARBON	10K	5%	1/4W		
D606	8-719-913-64	THYRISTOR CSM2B4A10		R408	1-247-700-11	CARBON	100	5%	1/4W		
D607	8-719-109-93	DIODE RD6.2ES-B2		R409	1-247-725-11	CARBON	10K	5%	1/4W		
D608	8-719-971-20	DIODE ERC38-06		R410	1-249-469-11	CARBON	100K	5%	1/4W		
D609	8-719-300-33	DIODE RU-3AM		R411	1-247-700-11	CARBON	100	5%	1/4W		
<FUSE>											
F600 ^A	1-532-600-11	FUSE, GLASS TUBE 4A/250V		R412	1-246-535-00	CARBON	390K	5%	1/4W		
	1-533-190-11	CLIP, FUSE; F600		R413	1-249-467-11	CARBON	68K	5%	1/4W		
				R414	1-247-719-11	CARBON	3.3K	5%	1/4W		
<COIL>											
FB501	1-410-396-41	INDUCTOR	0.45UH	R415	1-247-719-11	CARBON	3.3K	5%	1/4W		
FB601	1-410-396-41	INDUCTOR	0.45UH	R416	1-247-726-11	CARBON	33K	5%	1/4W		
FB602	1-410-396-41	INDUCTOR	0.45UH	R417	1-249-460-11	CARBON	15K	5%	1/4W		
L400	1-410-669-31	INDUCTOR	33UH	R418	1-247-713-11	CARBON	1K	5%	1/4W		
L500 ^A	1-459-744-21	HLC		R419	1-249-451-11	CARBON	2.2	5%	1/4W	F	
L501	1-459-104-00	COIL, DUST CORE		R420	1-247-725-11	CARBON	10K	5%	1/4W		
L502 ^A	1-459-592-11	COIL (WITH CORE) (PMC)		R421	1-247-717-11	CARBON	2.2K	5%	1/4W		
L503	1-459-075-00	COIL, DYNAMIC CONVERSION CHOKER		R422	1-247-721-11	CARBON	4.7K	5%	1/4W		
L504	1-410-645-31	INDUCTOR	100UH	R423	1-247-717-11	CARBON	2.2K	5%	1/4W		
L505	1-459-155-00	COIL (WITH CORE)	45UH	R424	1-215-890-11	METAL OXIDE	470	5%	2W	F	
L508	1-459-155-00	COIL (WITH CORE)	45UH	R425	1-215-889-00	METAL OXIDE	330	5%	2W	F	
L600	1-410-669-31	INDUCTOR	33UH	R426	1-247-721-11	CARBON	4.7K	5%	1/4W		
				R427	1-247-701-11	CARBON	120	5%	1/4W		
				R428	1-215-867-00	METAL OXIDE	470	5%	1W	F	
				R429	1-216-350-11	METAL OXIDE	1.2	5%	1W	F	
<IC>											
IC400	8-759-945-36	IC TDA1670A		R430	1-249-459-11	CARBON	12K	5%	1/4W		
				R431	1-249-466-11	CARBON	56K	5%	1/4W		
				R436	1-247-717-11	CARBON	2.2K	5%	1/4W		

Les composants identifiés par une trame et par une marque ^A sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

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

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

Les composants identifiés par une trame et par une marque  sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

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

REF.NO.	PART NO.	DESCRIPTION	REMARK			REF.NO.	PART NO.	DESCRIPTION	REMARK			
R437	1-247-713-11	CARBON	1K	5%	1/4W	R565	1-247-717-11	CARBON	2.2K	5%	1/4W	
R438	1-247-700-11	CARBON	100	5%	1/4W	R566	1-247-726-11	CARBON	33K	5%	1/4W	
R439	1-247-700-11	CARBON	100	5%	1/4W	R567	1-247-726-11	CARBON	33K	5%	1/4W	
R440	1-247-717-11	CARBON	2.2K	5%	1/4W	R581	1-247-725-11	CARBON	10K	5%	1/4W	
R500	1-249-464-11	CARBON	39K	5%	1/4W	R582	1-247-708-11	CARBON	470	5%	1/4W	
R501	1-249-462-11	CARBON	22K	5%	1/4W	R600	▲ 1-217-286-11	WIREWOUND	1	10%	5W F	
R502	1-249-462-11	CARBON	22K	5%	1/4W	R601	1-202-846-00	SOLID	470K	10%	1/2W	
R503	1-249-460-11	CARBON	15K	5%	1/4W	R602	1-215-884-11	METAL OXIDE	47	5%	2W F	
R504	1-249-462-11	CARBON	22K	5%	1/4W	R603	1-247-704-11	CARBON	220	5%	1/4W F	
R505	1-249-464-11	CARBON	39K	5%	1/4W	R604	1-207-642-00	WIREWOUND	0.15	10%	3W F	
R506	1-247-717-11	CARBON	2.2K	5%	1/4W	R605	1-216-422-11	METAL OXIDE	18	5%	1W F	
R508	1-247-883-00	CARBON	150K	5%	1/4W	R606	1-215-925-11	METAL OXIDE	22K	5%	3W F	
R509	1-249-465-11	CARBON	47K	5%	1/4W	R607	1-247-708-11	CARBON	470	5%	1/4W F	
R510	1-249-465-11	CARBON	47K	5%	1/4W	R608	1-215-900-11	METAL OXIDE	22K	5%	2W F	
R511	1-215-889-00	METAL OXIDE	330	5%	2W F	R609	▲ 1-202-847-91	SOLID	560K	10%	1/2W	
R512	1-249-467-11	CARBON	68K	5%	1/4W	R610	1-215-925-11	METAL OXIDE	22K	5%	3W F	
R513	1-247-717-11	CARBON	2.2K	5%	1/4W	R611	1-247-721-11	CARBON	4.7K	5%	1/4W	
R514	1-247-725-11	CARBON	10K	5%	1/4W	R612	1-214-733-00	METAL	1.5K	1%	1/4W	
R515	1-247-719-11	CARBON	3.3K	5%	1/4W	R613	1-214-729-00	METAL	1K	1%	1/4W	
R516	1-247-713-11	CARBON	1K	5%	1/4W	R615	1-247-713-11	CARBON	1K	5%	1/4W	
R517	1-249-460-11	CARBON	15K	5%	1/4W	R616	1-216-463-00	METAL OXIDE	12K	5%	2W F	
R518	1-214-785-00	METAL	220K	1%	1/4W	<VARIABLE RESISTOR>						
R519	1-247-723-11	CARBON	6.8K	5%	1/4W	RV400	1-238-449-21	RES, VAR, CARBON	10K			
R520	1-215-883-11	METAL OXIDE	33	5%	2W F	RV401	1-238-449-21	RES, VAR, CARBON	10K			
R521	1-249-460-11	CARBON	15K	5%	1/4W	RV402	1-224-250-99	RES, ADJ, METAL GLAZE	2.2K			
R522	1-214-765-00	METAL	33K	1%	1/4W	RV403	1-230-498-11	RES, ADJ, CARBON	47K			
R524	▲. METAL					RV404	1-230-498-11	RES, ADJ, CARBON	47K			
R525	1-249-460-11	CARBON	15K	5%	1/4W	RV405	1-230-497-11	RES, ADJ, CARBON	22K			
R526	1-214-757-00	METAL	15K	1%	1/4W	RV500	1-230-720-11	RES, ADJ, CARBON	4.7K			
R527	1-214-787-00	METAL	270K	1%	1/4W	RV501	1-230-497-11	RES, ADJ, CARBON	22K			
R528	1-214-752-00	METAL	9.1K	1%	1/4W	RV502	1-230-720-11	RES, ADJ, CARBON	4.7K			
R529	1-247-717-11	CARBON	2.2K	5%	1/4W	RV503	1-230-496-11	RES, ADJ, CARBON	10K			
R530	1-247-725-11	CARBON	10K	5%	1/4W	RV504	1-224-251-99	RES, ADJ, METAL GLAZE	4.7K			
R531	1-247-725-11	CARBON	10K	5%	1/4W	RV505	1-226-114-00	RES, ADJ, METAL GLAZE	2.2M			
R532	1-247-704-11	CARBON	220	5%	1/4W F	RV506	1-230-641-11	RES, ADJ, METAL GLAZE	2.2M			
R533	1-216-375-00	METAL OXIDE	3.3	5%	2W F	RV507	1-230-718-11	RES, ADJ, CARBON	1K			
R534	1-249-455-11	CARBON	4.7	5%	1/4W F	RV508	1-228-998-00	RES, ADJ, CARBON	220K			
R535	1-249-443-11	CARBON	0.47	5%	1/4W F	<SWITCH>						
R536	1-247-752-11	CARBON	1K	5%	1/2W F	S600	▲ 1-571-433-11	SWITCH, PUSH (AC POWER)				
R537	1-247-697-11	CARBON	56	5%	1/4W	<TRANSFORMER>						
R538	1-215-892-11	METAL OXIDE	1K	5%	2W F	T500	▲ 1-439-451-11	TRANSFORMER ASSY, FLYBACK (NX-2400)				
R539	1-202-849-00	SOLID	820K	10%	1/2W	T501	1-437-078-00	TRANSFORMER, HORIZONTAL DRIVE				
R540	1-202-719-00	SOLID	1M	10%	1/2W	T600	▲ 1-421-776-11	LFT				
R541	1-215-898-11	METAL OXIDE	10K	5%	2W F	T601	▲ 1-449-503-11	TRANSFORMER, REGULATOR				
R542	1-247-719-11	CARBON	3.3K	5%	1/4W	<THERMISTOR>						
R543	1-214-864-00	METAL	1K	1%	1/2W	TH600	▲ 1-806-710-13	THERMISTOR (POSITIVE)				
R544	1-215-880-00	METAL OXIDE	10	5%	2W F	TH601	▲ 1-808-625-11	THERMISTOR, POWER				
R545	1-215-880-00	METAL OXIDE	10	5%	2W F							
R546	1-247-700-11	CARBON	100	5%	1/4W							
R547	1-214-763-00	METAL	27K	1%	1/4W							
R548	1-202-719-00	SOLID	1M	10%	1/2W							
R549	1-247-717-11	CARBON	2.2K	5%	1/4W							
R550	1-249-469-11	CARBON	100K	5%	1/4W							
R551	1-247-726-11	CARBON	33K	5%	1/4W							
R552	1-249-459-11	CARBON	12K	5%	1/4W							
R553	1-247-725-11	CARBON	10K	5%	1/4W							
R555	1-249-460-11	CARBON	15K	5%	1/4W							
R556	1-247-688-11	CARBON	10	5%	1/4W							
R558	1-247-895-00	CARBON	470K	5%	1/4W							
R560	1-249-460-11	CARBON	15K	5%	1/4W							
R561	1-249-465-11	CARBON	47K	5%	1/4W							
R562	1-215-883-11	METAL OXIDE	33	5%	2W F							
R563	1-247-895-00	CARBON	470K	5%	1/4W							
R564	1-249-469-11	CARBON	100K	5%	1/4W							

9-964-207-82

Sony Corporation
TV Group

—10—

English
89GG0417-1
Printed in Japan
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CPD-1320

SONY® SERVICE MANUAL

US Model

Canadian Model

*Chassis No. SCC-C39A-A
Serial No. 7,000,001 and later*

ST-840-871 100-1000-000
PC-1055B 100-1000-000
ST-858-881 100-1000-000
PC-858-881 100-1000-000

SUPPLEMENT-3

File this supplement with the service manual.

INTRODUCTION

1. EXPLODED VIEW Modification
2. ELECTRICAL PARTS LIST Modification

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000-0000

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MICROFILM

EXPLODED VIEW

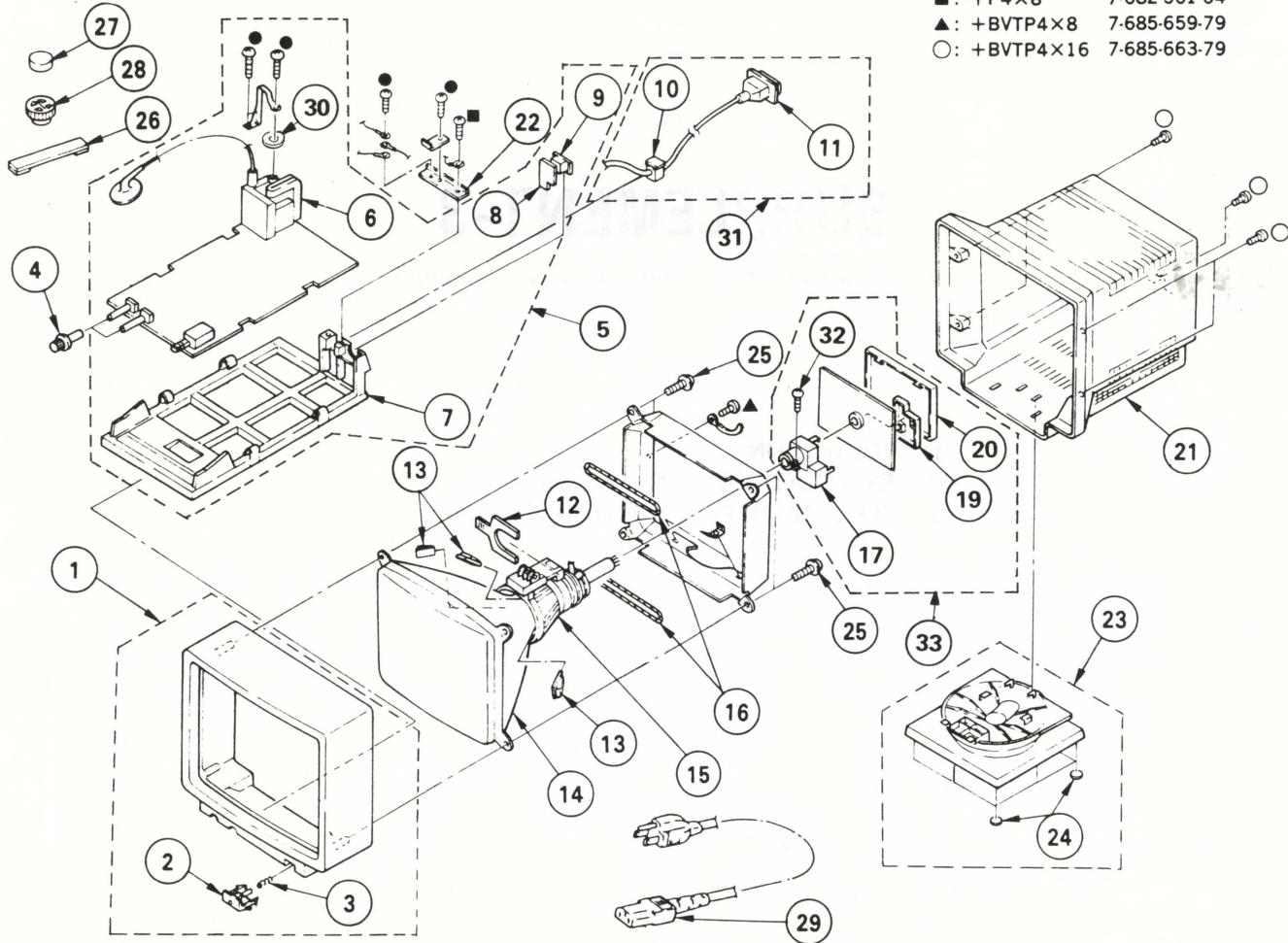
NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

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

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

- : +BVTP3×12 7-685-648-79
- : +P4×8 7-682-561-04
- ▲: +BVTP4×8 7-685-659-79
- : +BVTP4×16 7-685-663-79



NO.	PART NO.	DESCRIPTION	REMARK	NO.	PART NO.	DESCRIPTION	REMARK
1	X-4392-704-1	BEZEL ASSY	2,3	17	X-4392-701-1	HOLDER ASSY, B PC BOARD	32
2	4-392-708-01	BUTTON, POWER		19	*4-392-704-01	COVER, H. STAT	
3	3-509-046-01	SPRING, COMPRESSION		20	*4-392-718-01	SHIELD	
4	4-392-705-01	KNOB, VR		21	4-392-714-01	CABINET	
5	*A-1478-336-A	D BLOCK ASSY	6,7,8,9,30	22	*4-392-717-01	HOLDER, CABLE	
6	▲.1-439-451-21	TRANSFORMER ASSY, FLYBACK (NX-2402)		23	X-4392-703-2	TIILT ASSY	24
7	4-392-712-01	BRACKET, D		24	*4-860-711-00	FELT	
8	*1-628-783-11	F BOARD		25	4-307-249-00	SCREW(5), TAPPING	
9	▲.1-526-954-11	INLET, AC		26	X-4308-815-0	PERMALLOY ASSY, CONVERGENCE	
10	*4-364-726-01	BUSHING, AC CORD		27	1-452-032-00	MAGNET, DISK; 10MM φ	
11	1-574-430-11	CABLE		28	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM φ	
12	X-2105-403-3	REINFORCEMENT ASSY, H. TILT		29	▲.1-557-377-11	CORD, POWER	
13	3-703-003-00	SPACER, DY		30	*4-392-732-01	SPACER, INSULATING	
14	▲.8-738-251-05	PICTURE TUBE (M34JNQ15X)		31	*A-1499-823-A	CABLE ASSY, SIGNAL	10,11
15	▲.1-451-336-11	DEFLECTION YOKE (Y14FBC4)		32	*2-101-802-01	SCREW, FASTENING, SEPARATOR	
16	▲.1-426-442-11	COIL, DEMAGNETIZATION		33	*A-1478-029-A	B BLOCK ASSY	17,19,20,32

B

ELECTRICAL PARTS LIST

NOTE:

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

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.

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

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

RESISTORS

- All resistors are in ohms
- F : nonflammable

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

CAPACITORS

COILS

• MF : μF , PF : $\mu\mu\text{F}$ • MMH : mH , UH : μH

- The components identified by **B** 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-1478-029-A	B BLOCK ASSY			C109	1-102-963-00	CERAMIC	33PF
	*****			C110	1-136-153-00	FILM	0.01MF
X-4392-701-1	HOLDER ASSY, B PC BOARD						5%
*2-101-802-01	SCREW, FASTENING, SEPARATOR						5%
*4-392-704-01	COVER, H-STAT			D011	8-719-911-19	DIODE	ISS119
*4-392-718-01	SHIELD			D012	8-719-911-19	DIODE	ISS119

B BOARD (B BLOCK ASSY)							
*****				D013	8-719-911-19	DIODE	ISS119
*1-506-371-00	PIN, CONNECTOR 2P			D014	8-719-901-83	DIODE	ISS83
*1-508-767-00	PIN, CONNECTOR (5MM PITCH) 5P			D015	8-719-901-83	DIODE	ISS83
*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P			D016	8-719-901-83	DIODE	ISS83
I-526-819-11	SOCKET, PICTURE TUBE			D021	8-719-911-19	DIODE	ISS119
*1-564-508-11	PLUG, CONNECTOR 5P			D022	8-719-911-19	DIODE	ISS119
*1-564-514-11	PLUG, CONNECTOR 11P			D023	8-719-911-19	DIODE	ISS119
*1-564-516-11	PLUG, CONNECTOR 13P			D024	8-719-901-83	DIODE	ISS83
<CAPACITOR>							
C001	1-124-791-11	ELECT	1MF	20%	50V	D025	8-719-901-83
C002	1-124-791-11	ELECT	1MF	20%	50V	D026	8-719-901-83
C003	1-108-626-11	MYLAR	0.01MF	10%	100V	D031	8-719-911-19
C004	1-108-626-11	MYLAR	0.01MF	10%	100V	D032	8-719-911-19
C005	1-108-626-11	MYLAR	0.01MF	10%	100V	D033	8-719-911-19
C007	1-124-910-11	ELECT	47MF	20%	50V	D034	8-719-901-83
C008	1-124-910-11	ELECT	47MF	20%	50V	D035	8-719-901-83
C011	1-101-884-00	CERAMIC	56PF	5%	50V	D036	8-719-901-83
C012	1-108-704-11	MYLAR	0.1MF	10%	200V	D101	8-719-109-85
C013	1-124-799-11	ELECT	2.2MF	20%	160V	D102	8-719-109-85
C014	1-108-626-11	MYLAR	0.01MF	10%	100V	D103	8-719-109-85
C015	1-123-875-11	ELECT	10MF	20%	50V	D104	8-719-109-85
C017	1-101-888-00	CERAMIC	68PF	5%	50V	IC001	8-752-033-27
C021	1-101-884-00	CERAMIC	56PF	5%	50V	IC102	8-759-240-49
C022	1-108-704-11	MYLAR	0.1MF	10%	200V	IC103	8-759-207-73
C023	1-124-799-11	ELBCT	2.2MF	20%	160V	IC104	8-759-240-81
C024	1-108-626-11	MYLAR	0.01MF	10%	100V		
C025	1-123-875-11	ELECT	10MF	20%	50V		
C027	1-101-888-00	CERAMIC	68PF	5%	50V	L011	1-408-398-00
C031	1-101-884-00	CERAMIC	56PF	5%	50V	L021	1-408-398-00
C032	1-108-704-11	MYLAR	0.1MF	10%	200V	L031	1-408-398-00
C033	1-124-799-11	ELECT	2.2MF	20%	160V	L102	1-410-675-31
C034	1-108-626-11	MYLAR	0.01MF	10%	100V		
C035	1-123-875-11	ELECT	10MF	20%	50V		
C036	1-123-947-00	ELECT	10MF	20%	250V		
C037	1-101-888-00	CERAMIC	68PF	5%	50V	LF1	1-236-449-11
C038	1-124-931-11	ELECT	47MF	20%	100V	LF3	1-236-449-11
C080	1-162-116-00	CERAMIC	680PF	10%	2KV		
C081	1-162-114-00	CERAMIC	0.0047MF		2KV		
C101	1-136-153-00	FILM	0.01MF	5%	50V		
<COIL>							
C103	1-130-471-00	MYLAR	0.001MF	5%	50V	NL011	1-519-421-11
C105	1-123-875-11	ELECT	10MF	20%	50V	NL021	1-519-421-11
C106	1-123-875-11	ELECT	10MF	20%	50V	NL031	1-519-421-11
C107	1-136-165-00	FILM	0.1MF	5%	50V		
C108	1-102-963-00	CERAMIC	33PF	5%	50V		
<NEON LAMP>							
C109	1-130-471-00	MYLAR	0.001MF	5%	50V		
C110	1-123-875-11	ELECT	10MF	20%	50V		
C111	1-123-875-11	ELECT	10MF	20%	50V		
C112	1-136-165-00	FILM	0.1MF	5%	50V		
C113	1-102-963-00	CERAMIC	33PF	5%	50V		

B

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<TRANSISTOR>							
Q011	8-729-119-76	TRANSISTOR 2SA1175-HFE		R049	1-216-484-00	METAL OXIDE	3.9K 5% 3W F
Q012	8-729-119-76	TRANSISTOR 2SA1175-HFE		R050	1-247-694-11	CARBON	33 5% 1/4W F
Q013	8-729-326-11	TRANSISTOR 2SC2611		R051	1-247-694-11	CARBON	33 5% 1/4W F
Q014	8-729-891-02	TRANSISTOR 2SC2910-S		R052	1-246-545-00	CARBON	1M 5% 1/4W
Q015	8-729-820-82	TRANSISTOR 2SA1208-S		R053	1-247-700-11	CARBON	100 5% 1/4W
Q016	8-729-326-11	TRANSISTOR 2SC2611		R054	1-247-717-11	CARBON	2.2K 5% 1/4W
Q021	8-729-119-76	TRANSISTOR 2SA1175-HFE		R055	1-216-438-11	METAL OXIDE	8.2K 5% 1W F
Q022	8-729-119-76	TRANSISTOR 2SA1175-HFE		R056	1-247-694-11	CARBON	33 5% 1/4W
Q023	8-729-326-11	TRANSISTOR 2SC2611		R057	1-247-713-11	CARBON	1K 5% 1/4W
Q024	8-729-891-02	TRANSISTOR 2SC2910-S		R058	1-247-692-11	SOLID	22 5% 1/4W
Q025	8-729-820-82	TRANSISTOR 2SA1208-S		R059	1-216-484-00	METAL OXIDE	3.9K 5% 3W F
Q026	8-729-326-11	TRANSISTOR 2SC2611		R060	1-247-694-11	CARBON	33 5% 1/4W F
Q031	8-729-119-76	TRANSISTOR 2SA1175-HFE		R061	1-247-694-11	CARBON	33 5% 1/4W F
Q032	8-729-119-76	TRANSISTOR 2SA1175-HFE		R062	1-246-545-00	CARBON	1M 5% 1/4W
Q033	8-729-326-11	TRANSISTOR 2SC2611		R063	1-247-700-11	CARBON	100 5% 1/4W
Q034	8-729-891-02	TRANSISTOR 2SC2910-S		R064	1-247-717-11	CARBON	2.2K 5% 1/4W
Q035	8-729-820-82	TRANSISTOR 2SA1208-S		R065	1-216-438-11	METAL OXIDE	8.2K 5% 1W F
Q036	8-729-326-11	TRANSISTOR 2SC2611		R066	1-247-694-11	CARBON	33 5% 1/4W
<RESISTOR>							
R001	1-247-725-11	CARBON	10K 5% 1/4W	R067	1-247-713-11	CARBON	1K 5% 1/4W
R003	1-247-725-11	CARBON	10K 5% 1/4W	R068	1-247-692-11	SOLID	22 5% 1/4W
R004	1-247-725-11	CARBON	10K 5% 1/4W	R069	1-216-484-00	METAL OXIDE	3.9K 5% 3W F
R006	1-247-721-11	CARBON	4.7K 5% 1/4W	R070	1-247-713-11	CARBON	1K 5% 1/4W
R010	1-247-700-11	CARBON	100 5% 1/4W	R080	1-216-400-11	METAL OXIDE	8.2 5% 3W F
R011	1-247-702-11	CARBON	150 5% 1/4W	R081	1-202-838-00	SOLID	100K 10% 1/2W
R012	1-247-700-11	CARBON	100 5% 1/4W	R082	1-216-400-11	METAL OXIDE	8.2 5% 3W F
R013	1-247-704-11	CARBON	220 5% 1/4W	R083	1-202-840-00	SOLID	150K 10% 1/2W
R014	1-247-721-11	CARBON	4.7K 5% 1/4W	R101	1-247-700-11	CARBON	100 5% 1/4W
R015	1-247-694-11	CARBON	33 5% 1/4W	R103	1-247-719-11	CARBON	3.3K 5% 1/4W
R016	1-249-455-11	CARBON	4.7 5% 1/4W	R104	1-247-700-11	CARBON	100 5% 1/4W
R017	1-214-713-00	METAL	220 1% 1/4W	R106	1-247-719-11	CARBON	3.3K 5% 1/4W
R018	1-214-677-00	METAL	6.8 1% 1/4W	R107	1-249-469-11	CARBON	100K 5% 1/4W
R019	1-216-484-00	METAL OXIDE	3.9K 5% 3W F	R108	1-249-465-11	CARBON	47K 5% 1/4W
R021	1-247-702-11	CARBON	150 5% 1/4W	R109	1-247-726-11	CARBON	33K 5% 1/4W
R022	1-247-700-11	CARBON	100 5% 1/4W	R110	1-247-725-11	CARBON	10K 5% 1/4W
R023	1-247-704-11	CARBON	220 5% 1/4W	R111	1-247-725-11	CARBON	10K 5% 1/4W
R024	1-247-721-11	CARBON	4.7K 5% 1/4W	R112	1-247-708-11	CARBON	470 5% 1/4W
R025	1-247-694-11	CARBON	33 5% 1/4W	R113	1-247-708-11	CARBON	470 5% 1/4W
R026	1-249-455-11	CARBON	4.7 5% 1/4W	R114	1-247-700-11	CARBON	100 5% 1/4W
R027	1-214-713-00	METAL	220 1% 1/4W	R115	1-247-700-11	CARBON	100 5% 1/4W
R028	1-214-677-00	METAL	6.8 1% 1/4W	R116	1-247-700-11	CARBON	100 5% 1/4W
R029	1-216-484-00	METAL OXIDE	3.9K 5% 3W F	R117	1-247-700-11	CARBON	100 5% 1/4W
R031	1-247-702-11	CARBON	150 5% 1/4W	R118	1-247-708-11	CARBON	470 5% 1/4W
R032	1-247-700-11	CARBON	100 5% 1/4W	R119	1-247-713-11	CARBON	1K 5% 1/4W
R033	1-247-704-11	CARBON	220 5% 1/4W	R121	1-247-700-11	CARBON	100 5% 1/4W
R034	1-247-721-11	CARBON	4.7K 5% 1/4W	R122	1-247-700-11	CARBON	100 5% 1/4W
R035	1-247-694-11	CARBON	33 5% 1/4W	R123	1-247-721-11	CARBON	4.7K 5% 1/4W
R036	1-249-455-11	CARBON	4.7 5% 1/4W	R124	1-247-721-11	CARBON	4.7K 5% 1/4W
R037	1-214-713-00	METAL	220 1% 1/4W	R126	1-249-465-11	CARBON	47K 5% 1/4W
R038	1-214-677-00	METAL	6.8 1% 1/4W	R127	1-249-465-11	CARBON	47K 5% 1/4W
R039	1-216-484-00	METAL OXIDE	3.9K 5% 3W F	R128	1-247-700-11	CARBON	100 5% 1/4W
R040	1-247-694-11	CARBON	33 5% 1/4W F	R129	1-247-700-11	CARBON	100 5% 1/4W
R041	1-247-694-11	CARBON	33 5% 1/4W F	R134	1-247-719-11	CARBON	3.3K 5% 1/4W
R042	1-246-545-00	CARBON	1M 5% 1/4W	R135	1-247-725-11	CARBON	10K 5% 1/4W
R043	1-247-700-11	CARBON	100 5% 1/4W	R136	1-247-719-11	CARBON	3.3K 5% 1/4W
R044	1-247-717-11	CARBON	2.2K 5% 1/4W	R137	1-247-725-11	CARBON	10K 5% 1/4W
R045	1-216-438-11	METAL OXIDE	8.2K 5% 1W F	R147	1-214-713-00	METAL	220 1% 1/4W
R046	1-247-694-11	CARBON	33 5% 1/4W	R149	1-247-694-11	CARBON	33 5% 1/4W
R047	1-247-713-11	CARBON	1K 5% 1/4W	R157	1-214-713-00	METAL	220 1% 1/4W
R048	1-247-692-11	SOLID	22 5% 1/4W	R159	1-247-694-11	CARBON	33 5% 1/4W
				R167	1-214-713-00	METAL	220 1% 1/4W
				R169	1-247-694-11	CARBON	33 5% 1/4W

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.

B **F** **D**

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK	
<VARIABLE RESISTOR>								
RV001	1-228-993-00	RES, ADJ, CARBON 4.7K		C414	1-130-483-00	MYLAR	0.01MF 5% 50V	
RV002	1-228-993-00	RES, ADJ, CARBON 4.7K		C500	1-102-030-00	CERAMIC	330PF 10% 500V	
RV011	1-228-989-00	RES, ADJ, CARBON 470		C501	1-130-471-00	FILM	0.001MF 5% 50V	
RV012	1-224-252-99	RES, ADJ, METAL GLAZE 10K		C502	1-108-614-11	MYLAR	0.001MF 10% 100V	
RV021	1-228-989-00	RES, ADJ, CARBON 470		C503	1-108-622-11	MYLAR	0.0047MF 10% 100V	
RV022	1-224-252-99	RES, ADJ, METAL GLAZE 10K		C504	1-130-012-00	FILM	330PF 5% 50V	
RV031	1-228-989-00	RES, ADJ, CARBON 470		C505	1-136-111-00	FILM	1MF 5% 200V	
RV032	1-224-252-99	RES, ADJ, METAL GLAZE 10K		C506	1-108-620-11	MYLAR	0.0033MF 10% 100V	
RV081▲	1-230-798-21	RES, ADJ, METAL GLAZE 90M		C507	1-102-030-00	CERAMIC	330PF 10% 500V	

*1-628-783-11	F BOARD			C508	1-124-791-11	ELECT	1MF 20% 50V	

▲.1-526-954-11	INLET, AC			C509	1-124-791-11	ELECT	1MF 20% 50V	
	1-543-421-11	CORE, BEAD		C510	1-124-791-11	ELECT	1MF 20% 50V	

<CAPACITOR>								
C701 ▲.1-164-003-11	CERAMIC	2200PF	20%	400V	C511	1-108-624-11	MYLAR	0.0068MF 10% 100V
C702 ▲.1-164-003-11	CERAMIC	2200PF	20%	400V	C512	1-124-910-11	ELECT	47MF 20% 50V

▲.1-136-069-11				C513	1-136-541-11	FILM	1.5MF 5% 200V	
				C514	1-130-471-00	MYLAR	0.001MF 5% 50V	

C515 ▲.1-136-069-11				C515	▲.1-136-069-11	FILM	0.0044MF 3% 2KV	
C516 ▲.1-129-717-51				C516	▲.1-129-717-51	FILM	0.018MF 10% 630V	

C517	1-124-927-11	ELECT	4.7MF	20% 50V	C517	1-124-927-11	ELECT	4.7MF 20% 50V
C518	1-106-399-00	MYLAR	0.22MF	10% 200V	C518	1-106-399-00	MYLAR	0.22MF 10% 200V
C519	1-124-499-11	ELECT	1MF	20% 50V	C519	1-124-499-11	ELECT	1MF 20% 50V

C520	1-136-165-00	FILM	0.1MF	5% 50V	C520	1-136-165-00	FILM	0.1MF 5% 50V
C521	1-136-165-00	FILM	0.1MF	5% 50V	C521	1-102-030-00	CERAMIC	330PF 10% 500V
C522	1-102-030-00	CERAMIC	330PF	10% 500V	C522	1-136-173-00	FILM	0.47MF 5% 50V
C523	1-136-173-00	FILM	0.47MF	5% 50V	C523	1-108-620-11	MYLAR	0.0033MF 10% 100V
C524	1-108-620-11	MYLAR	0.0033MF	10% 100V	C524	1-124-122-11	ELECT	100MF 20% 50V

C525	1-124-122-11	ELECT	100MF	20% 50V	C525	1-102-030-00	CERAMIC	330PF 10% 500V
C527	1-102-030-00	CERAMIC	330PF	10% 50V	C527	1-124-122-11	ELECT	100MF 20% 50V
C528	1-124-122-11	ELECT	100MF	20% 50V	C528	1-124-912-11	ELECT	330MF 20% 50V
C529	1-124-912-11	ELECT	330MF	20% 50V	C529	1-126-356-11	ELECT	220MF 20% 160V
C530	1-126-356-11	ELECT	220MF	20% 160V	C530	1-126-356-11	ELECT	220MF 20% 160V

D BOARD (D BLOCK ASSY)								

*1-506-348-99	PIN, CONNECTOR 3P			C531	1-123-946-00	ELECT	4.7MF 20% 250V	
*1-506-371-00	PIN, CONNECTOR 2P			C532	1-124-360-00	ELECT	1000MF 20% 16V	
*1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P			C533 ▲.1-162-135-51	CERAMIC	560PF 10% 2KV		
*1-508-767-00	PIN, CONNECTOR (5MM PITCH) 5P			C534 ▲.1-108-626-91	MYLAR	0.01MF 10% 100V		
*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P			C536	1-162-114-00	CERAMIC	0.0047MF 2KV	

*1-564-508-11	PLUG, CONNECTOR 5P			C537	1-136-627-11	FILM	0.022MF 3% 1KV	
*1-564-516-11	PLUG, CONNECTOR 13P			C538	1-108-700-11	MYLAR	0.047MF 10% 200V	
*1-568-536-11	PLUG (MINIATURE DY) 6P			C539	1-130-471-00	FILM	0.001MF 5% 50V	
4-309-378-00	WASHER			C540	1-124-912-11	ELECT	330MF 20% 50V	
*4-341-751-01	EYELET			C543	1-123-875-11	ELECT	10MF 20% 50V	

*4-341-752-01	EYELET			C544	1-162-558-11	CERAMIC	100PF 10% 2KV	
*4-380-083-01	HOLDER (E), LED			C545	1-123-875-11	ELECT	10MF 20% 50V	
*4-386-664-01	SPRING			C547	1-108-624-11	MYLAR	0.0068MF 10% 100V	
*4-392-731-01	COVER, SHORT RING			C548	1-102-030-00	CERAMIC	330PF 10% 500V	

<CAPACITOR>								
C400	1-124-791-11	ELECT	1MF	20% 50V	C549	1-124-927-11	ELECT	4.7MF 20% 50V
C401	1-136-171-00	FILM	0.33MF	5% 50V	C550	1-123-382-00	ELECT	3.3MF 20% 50V
C402	1-136-165-00	FILM	0.1MF	5% 50V	C581	1-102-228-00	CERAMIC	470PF 10% 500V
C403	1-136-165-00	FILM	0.1MF	5% 50V	C600 ▲.1-164-003-11	CERAMIC	2200PF 20% 400V	
C404	1-124-911-11	ELECT	220MF	20% 50V	C601 ▲.1-164-003-11	CERAMIC	2200PF 20% 400V	
C405	1-102-244-00	CERAMIC	220PF	10% 500V	C602 ▲.1-125-555-11	ELECT	330MF 20% 400V	
C406	1-124-910-11	ELECT	47MF	20% 50V	C603	1-124-910-11	ELECT	47MF 20% 50V
C407	1-124-618-11	ELECT	2200MF	20% 35V	C604	1-124-910-11	ELECT	47MF 20% 50V
C408	1-136-165-00	FILM	0.1MF	5% 50V	C605	1-108-698-11	MYLAR	0.033MF 10% 200V
C409	1-124-912-11	ELECT	330MF	20% 50V	C606	1-108-636-11	MYLAR	0.068MF 10% 100V
C410	1-106-379-12	MYLAR	0.033MF	10% 100V	C607	1-136-627-11	FILM	0.022MF 3% 1KV
C411	1-124-791-11	ELECT	1MF	20% 50V	C608	1-126-356-11	ELECT	220MF 20% 160V
C412	1-123-875-11	ELECT	10MF	20% 50V	C609	1-124-628-11	ELECT	220MF 20% 100V
C413	1-136-157-00	FILM	0.022MF	5% 50V	C610 ▲.1-164-003-11	CERAMIC	2200PF 20% 400V	

C611 ▲.1-136-891-11	FILM	0.47MF	20% 250V	C612 ▲.1-164-003-11	CERAMIC	2200PF 20% 400V		
C613 ▲.1-136-891-11	FILM	0.47MF	20% 250V	C614	1-124-122-11	ELECT	100MF 20% 50V	

D

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	REF. NO.	PART NO.	DESCRIPTION	REMARK
C615	1-123-875-11	ELECT CERAMIC	10MF 100PF	20% 10%	50V 2KV	<IC>	
C616	1-162-558-11	CERAMIC	0.001MF	10%	100V	IC400 8-759-945-36	IC TDA1670A
C617	1-108-614-11	MYLAR	100PF	10%	500V	IC500 8-759-942-16	IC TEA2031A
C620	1-162-117-00	CERAMIC	2200PF	20%	400V	IC501 8-759-144-17	IC UPC358HA
C621	1-161-742-00	CERAMIC				IC502 8-759-821-42	IC LA7851
C622	1-108-686-11	MYLAR	0.0033MF	10%	200V	IC503 8-759-604-39	IC M5F78M12
<DIODE>							
D400	8-719-941-64	DIODE GL5EG8				IC600 8-749-920-67	IC STR-S6307
D401	8-719-911-19	DIODE ISS119				IC601 8-719-939-00	DIODE PC111S
D402	8-719-110-41	DIODE RD15ES-B2				IC602A 8-749-920-68	IC SE-120N
D403	8-719-911-19	DIODE ISS119				<NEON LAMP>	
D404	8-719-911-55	DIODE U05G				NL500 1-519-108-99	LAMP, NEON
D500	8-719-911-19	DIODE ISS119				<TRANSISTOR>	
D502	8-719-109-93	DIODE RD6.2ES-B2				Q400 8-729-900-36	TRANSISTOR DTC124ES
D503	8-719-911-19	DIODE ISS119				Q401 8-729-900-36	TRANSISTOR DTC124ES
D504	8-719-901-83	DIODE ISS83				Q402 8-729-900-36	TRANSISTOR DTC124ES
D505	8-719-109-93	DIODE RD6.2ES-B2				Q403 8-729-119-78	TRANSISTOR 2SC2785-HFE
D506	8-719-110-72	DIODE RD30ES-B2				Q404 8-729-104-80	TRANSISTOR 2SC3355
D507	8-719-973-95	DIODE ERD09-15					
D508	8-719-939-07	DIODE ERD38-06				Q405 8-729-119-76	TRANSISTOR 2SA1175-HFE
D509	8-719-911-19	DIODE ISS119				Q406 8-729-320-62	TRANSISTOR 2SD789-34
D510	8-719-911-19	DIODE ISS119				Q407 8-729-119-76	TRANSISTOR 2SA1175-HFE
D511	8-719-300-33	DIODE RU-3AM				Q500 8-729-119-80	TRANSISTOR 2SC2688-LK
D512	8-719-300-33	DIODE RU-3AM				Q501 8-729-805-07	TRANSISTOR 2SD1887-CA
D513	8-719-974-48	DIODE ERA34-10				Q502 8-729-320-62	TRANSISTOR 2SD789-34
D514	8-719-300-33	DIODE RU-3AM				Q503 8-729-320-62	TRANSISTOR 2SD789-34
D515	8-719-974-48	DIODE ERA34-10				Q580 8-729-900-36	TRANSISTOR DTC124ES
D516	8-719-110-31	DIODE RD12ES-B2				Q600 8-729-809-22	TRANSISTOR 2SC3950-D
D581	8-719-911-19	DIODE ISS119				<RESISTOR>	
D582	8-719-110-31	DIODE RD12ES-B2				R400 1-247-713-11	CARBON 1K 5% 1/4W
D583	8-719-913-44	DIODE ERA82-004				R401 1-247-717-11	CARBON 2.2K 5% 1/4W
D600 A 8-719-305-07	DIODE RBV-400H					R402 1-247-725-11	CARBON 10K 5% 1/4W
D601	8-719-302-06	DIODE EU2A				R403 1-249-465-11	CARBON 47K 5% 1/4W
D602	8-719-971-20	DIODE ERC38-06				R404 1-247-721-11	CARBON 4.7K 5% 1/4W
D603	8-719-300-33	DIODE RU-3AM				R405 1-214-745-00	METAL 4.7K 1% 1/4W
D604	8-719-971-20	DIODE ERC38-06				R406 1-247-725-11	CARBON 10K 5% 1/4W
D605	8-719-971-20	DIODE ERC38-06				R407 1-247-725-11	CARBON 10K 5% 1/4W
D606	8-719-913-64	THYRISTOR CSM2B4A10				R408 1-247-700-11	CARBON 100 5% 1/4W
D607	8-719-109-93	DIODE RD6.2ES-B2				R409 1-247-725-11	CARBON 10K 5% 1/4W
D608	8-719-971-20	DIODE ERC38-06				R410 1-249-469-11	CARBON 100K 5% 1/4W
D609	8-719-300-33	DIODE RU-3AM				R411 1-247-700-11	CARBON 100 5% 1/4W
<FUSE>							
F600 A 1-532-600-11	FUSE, GLASS TUBE 4A/250V					R412 1-246-535-00	CARBON 390K 5% 1/4W
1-533-190-11	CLIP, FUSE; F600					R413 1-249-467-11	CARBON 68K 5% 1/4W
<COIL>							
FB501	1-410-396-41	INDUCTOR	0.45UH			R414 1-247-719-11	CARBON 3.3K 5% 1/4W
FB601	1-410-396-41	INDUCTOR	0.45UH			R415 1-247-719-11	CARBON 3.3K 5% 1/4W
FB602	1-410-396-41	INDUCTOR	0.45UH			R416 1-247-726-11	CARBON 33K 5% 1/4W
L400	1-410-669-31	INDUCTOR	33UH			R417 1-249-460-11	CARBON 15K 5% 1/4W
L500 A 1-459-744-21	HLC					R418 1-247-713-11	CARBON 1K 5% 1/4W
L501	1-459-104-00	COIL, DUST CORE				R419 1-249-451-11	CARBON 2.2 5% 1/4W F
L502 A 1-459-592-11	COIL (WITH CORE) (PMC)					R420 1-247-725-11	CARBON 10K 5% 1/4W
L503	1-459-075-00	COIL, DYNAMIC CONVERSION CHOK				R421 1-247-717-11	CARBON 2.2K 5% 1/4W
L504	1-410-645-31	INDUCTOR	100UH			R422 1-247-721-11	CARBON 4.7K 5% 1/4W
L505	1-459-155-00	COIL (WITH CORE)	45UH			R423 1-247-717-11	CARBON 2.2K 5% 1/4W F
L508	1-459-155-00	COIL (WITH CORE)	45UH			R424 1-215-890-11	METAL OXIDE 470 5% 2W F
L600	1-410-669-31	INDUCTOR	33UH			R425 1-215-888-00	METAL OXIDE 220 5% 2W F
						R426 1-247-721-11	CARBON 4.7K 5% 1/4W
						R427 1-247-701-11	CARBON 120 5% 1/4W
						R428 1-215-867-00	METAL OXIDE 470 5% 1W F
						R429 1-216-350-11	METAL OXIDE 1.2 5% 1W F

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

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

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

D

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK				
R430	1-249-459-11	CARBON	12K 5% 1/4W	R562	1-215-883-11	METAL OXIDE	33 5% 2W F				
R431	1-249-466-11	CARBON	50K 5% 1/4W	R563	1-247-895-00	CARBON	470K 5% 1/4W				
R436	1-247-717-11	CARBON	2.2K 5% 1/4W	R564	1-249-469-11	CARBON	100K 5% 1/4W				
R437	1-247-713-11	CARBON	1K 5% 1/4W	R565	1-247-717-11	CARBON	2.2K 5% 1/4W				
R438	1-247-700-11	CARBON	100 5% 1/4W	R566	1-247-726-11	CARBON	33K 5% 1/4W				
R439	1-247-700-11	CARBON	100 5% 1/4W	R567	1-247-726-11	CARBON	33K 5% 1/4W				
R440	1-247-717-11	CARBON	2.2K 5% 1/4W	R581	1-247-725-11	CARBON	10K 5% 1/4W				
R500	1-249-464-11	CARBON	39K 5% 1/4W	R582	1-247-708-11	CARBON	470 5% 1/4W				
R501	1-249-462-11	CARBON	22K 5% 1/4W	R600 Ⓐ	1-217-286-11	WIREWOUND	1 10% 5W F				
R502	1-249-462-11	CARBON	22K 5% 1/4W	R601	1-202-846-00	SOLID	470K 10% 1/2W				
R503	1-249-460-11	CARBON	15K 5% 1/4W	R602	1-215-884-11	METAL OXIDE	47 5% 2W F				
R504	1-249-462-11	CARBON	22K 5% 1/4W	R603	1-247-704-11	CARBON	220 5% 1/4W F				
R505	1-249-464-11	CARBON	39K 5% 1/4W	R604	1-207-642-00	WIREWOUND	0.15 10% 3W F				
R506	1-247-717-11	CARBON	2.2K 5% 1/4W	R605	1-216-422-11	METAL OXIDE	18 5% 1W F				
R508	1-247-883-00	CARBON	150K 5% 1/4W	R606	1-215-925-11	METAL OXIDE	22K 5% 3W F				
R509	1-249-465-11	CARBON	47K 5% 1/4W	R607	1-247-708-11	CARBON	470 5% 1/4W F				
R510	1-249-465-11	CARBON	47K 5% 1/4W	R608	1-215-900-11	METAL OXIDE	22K 5% 2W F				
R511	1-215-889-00	METAL OXIDE	330 5% 2W F	R609 Ⓐ	1-202-847-91	SOLID	560K 10% 1/2W				
R512	1-249-467-11	CARBON	68K 5% 1/4W	R610	1-215-925-11	METAL OXIDE	22K 5% 3W F				
R513	1-247-717-11	CARBON	2.2K 5% 1/4W	R611	1-247-721-11	CARBON	4.7K 5% 1/4W				
R514	1-247-725-11	CARBON	10K 5% 1/4W	R612	1-214-733-00	METAL	1.5K 1% 1/4W				
R515	1-247-719-11	CARBON	3.3K 5% 1/4W	R613	1-214-729-00	METAL	1K 1% 1/4W				
R516	1-247-713-11	CARBON	1K 5% 1/4W	R615	1-247-713-11	CARBON	1K 5% 1/4W				
R517	1-249-460-11	CARBON	15K 5% 1/4W	R616	1-216-463-00	METAL OXIDE	12K 5% 2W F				
R518	1-214-785-00	METAL	220K 1% 1/4W	<VARIABLE RESISTOR>							
R519	1-247-723-11	CARBON	6.8K 5% 1/4W	RV400	1-238-449-21	RES, VAR, CARBON	10K				
R520	1-215-883-11	METAL OXIDE	33 5% 2W F	RV401	1-238-449-21	RES, VAR, CARBON	10K				
R521	1-249-460-11	CARBON	15K 5% 1/4W	RV402	1-224-250-99	RES, ADJ, METAL GLAZE	2.2K				
R522	1-214-765-00	METAL	33K 1% 1/4W	RV403	1-230-498-11	RES, ADJ, CARBON	47K				
☒ R524 Ⓐ.		METAL	1/4W	RV404	1-230-498-11	RES, ADJ, CARBON	47K				
R525	1-249-460-11	CARBON	15K 5% 1/4W	RV405	1-230-497-11	RES, ADJ, CARBON	22K				
R526	1-214-757-00	METAL	15K 1% 1/4W	RV500	1-230-720-11	RES, ADJ, CARBON	4.7K				
R527	1-214-787-00	METAL	270K 1% 1/4W	RV501	1-230-497-11	RES, ADJ, CARBON	22K				
R528	1-214-752-00	METAL	9.1K 1% 1/4W	RV502	1-230-720-11	RES, ADJ, CARBON	4.7K				
R529	1-247-717-11	CARBON	2.2K 5% 1/4W	RV503	1-230-496-11	RES, ADJ, CARBON	10K				
R530	1-247-725-11	CARBON	10K 5% 1/4W	RV504	1-224-251-99	RES, ADJ, METAL GLAZE	4.7K				
R531	1-247-725-11	CARBON	10K 5% 1/4W	RV505	1-220-114-00	RES, ADJ, METAL GLAZE	2.2M				
R532	1-247-704-11	CARBON	220 5% 1/4W F	RV506	1-230-641-11	RES, ADJ, METAL GLAZE	2.2M				
R533	1-216-375-00	METAL OXIDE	3.3 5% 2W F	RV507	1-230-494-11	RES, ADJ, CARBON	1K				
R534	1-249-455-11	CARBON	4.7 5% 1/4W F	RV508	1-228-998-00	RES, ADJ, CARBON	220K				
R535	1-249-443-11	CARBON	0.47 5% 1/4W F	<SWITCH>							
R536	1-247-752-11	CARBON	1K 5% 1/2W F	S600 Ⓐ	1-571-433-11	SWITCH, PUSH (AC POWER)					
R537	1-247-697-11	CARBON	56 5% 1/4W	<TRANSFORMER>							
R538	1-215-892-11	METAL OXIDE	1K 5% 2W F	T500 Ⓐ	1-439-451-21	TRANSFORMER ASSY, FLYBACK (NX-2402)					
R539	1-202-849-00	SOLID	820K 10% 1/2W	T501	1-437-078-00	TRANSFORMER, HORIZONTAL DRIVE					
R540	1-202-719-00	SOLID	1M 10% 1/2W	T600 Ⓐ	1-421-776-11	LFT					
R541	1-215-898-11	METAL OXIDE	10K 5% 2W F	T601 Ⓐ	1-449-503-11	TRANSFORMER, REGULATOR					
R542	1-247-719-11	CARBON	3.3K 5% 1/4W	<THERMISTOR>							
R543	1-214-864-00	METAL	1K 1% 1/2W	TH600 Ⓐ	1-808-059-31	THERMISTOR, POSITIVE					
R544	1-215-880-00	METAL OXIDE	10 5% 2W F	TH601 Ⓐ	1-808-625-11	THERMISTOR, POWER					
R545	1-215-880-00	METAL OXIDE	10 5% 2W F	*****							
R546	1-247-700-11	CARBON	100 5% 1/4W	MISCELLANEOUS							
R547	1-214-763-00	METAL	27K 1% 1/4W	*****							
R548	1-202-719-00	SOLID	1M 10% 1/2W	△.1-426-442-11 COIL, DEMAGNETIZATION							
R549	1-247-717-11	CARBON	2.2K 5% 1/4W	*****							
R550	1-249-469-11	CARBON	100K 5% 1/4W	*****							
R551	1-247-726-11	CARBON	33K 5% 1/4W	*****							
R552	1-249-459-11	CARBON	12K 5% 1/4W	*****							
R553	1-247-725-11	CARBON	10K 5% 1/4W	*****							
R555	1-249-460-11	CARBON	15K 5% 1/4W	*****							
R556	1-247-688-11	CARBON	10 5% 1/4W	*****							
R558	1-247-895-00	CARBON	470K 5% 1/4W	*****							
R560	1-249-460-11	CARBON	15K 5% 1/4W	*****							
R561	1-249-465-11	CARBON	47K 5% 1/4W	*****							

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
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Δ .1-451-336-11 DEFLECTION YOKE (Y14FBC4)
 1-452 032 00 MAGNET, DISK; 10MM ϕ
 1-452 094 00 MAGNET, ROTATABLE DISK; 15MM ϕ
 1-574-430 11 CABLE

V901 Δ .8-738-251-05 PICTURE TUBE (M34JNQ15X)

ACCESSORIES AND PACKING MATERIALS

PART NO.	DESCRIPTION	REMARK
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Δ .1-557-377-11 CORD, POWER (3 CORE)
 3-786-812 41 MANUAL, INSTRUCTION
 *4-312-246 00 BAG, PROTECTION
 *4-392-724 01 SPACER
 *4-392-742 01 CUSHION (UPPER) (ASSY)
 *4-392-743 01 CUSHION (LOWER) (ASSY)
 *4-392 745 01 INDIVIDUAL CARTON