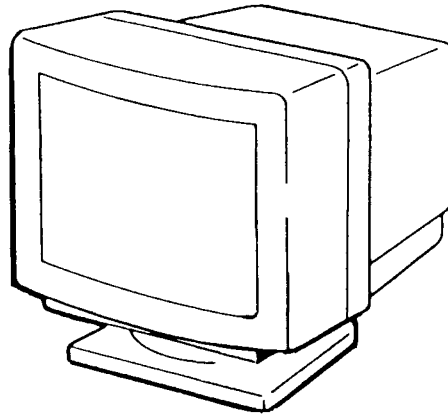


CPD-1604S/1604SA

SERVICE MANUAL

REVISED

US Model
Canadian Model
Chassis No. SCC-E72A-A

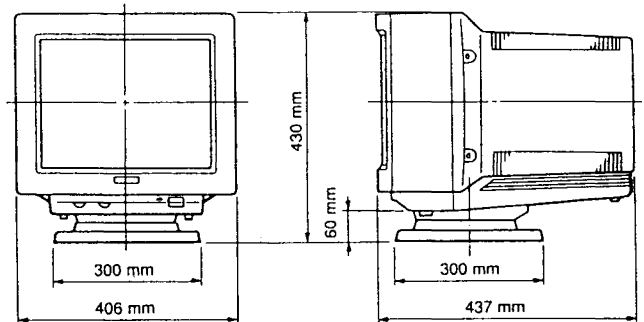


Multiscan

SPECIFICATIONS

Picture tube	Super Fine Pitch Trinitron color tube 17-inch (16 V) picture tube measured diagonally 90 degree deflection Anti-glare dark screen Phosphor P22 0.25 mm Aperture Grille Pitch
Viewable pixels	1024 x 768
Scanning frequency	Vertical sync signal frequency: 50 - 87 Hz Horizontal sync signal frequency: 28 - 57 kHz
Video input signal	Analog RGB positive 0.714 Vp-p/75Ω terminated
Sync input	TTL level. Polarity free. Composite sync is acceptable at Pin # 8. Sync on green is acceptable.
Power requirements	100-120 V AC, Max. 2.0 A, 50-60 Hz 220-240 V AC, 1.0 A, 50-60 Hz

Dimensions 430(H) x 406(W) x 437(D) mm
(17 x 16 x 17 1/4 inches)



Weight	Approx. 20 kg Including the tilt-swivel
Supplied accessory	AC power cord (1)

Design and specification subject to change without notice.



MULTISCAN®
COLOR COMPUTER DISPLAY
SONY®

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

Dangerously high voltage is present inside the unit. Do not open the cabinet. Refer servicing to qualified personnel only.


NOTE: 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."


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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 AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MARQUE  SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIÈCES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÈCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPOR-TANCE 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 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.

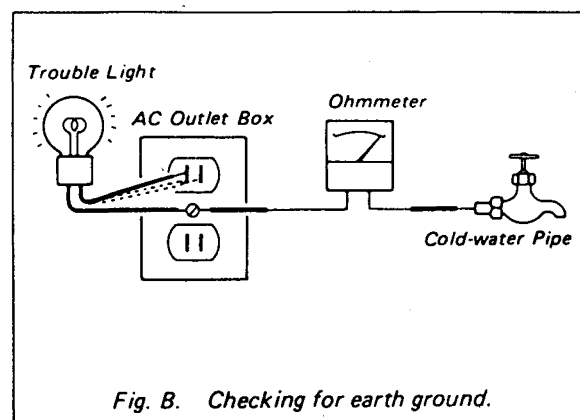
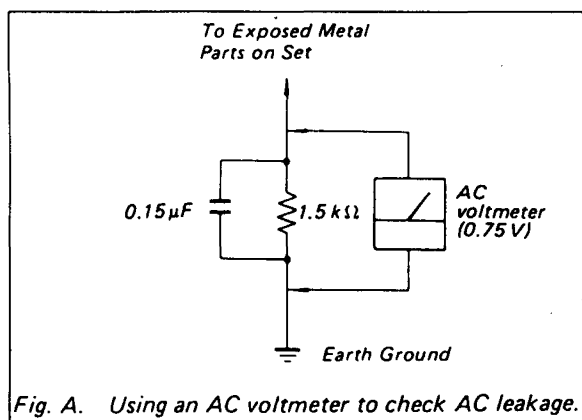
LEAKAGE TEST

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)

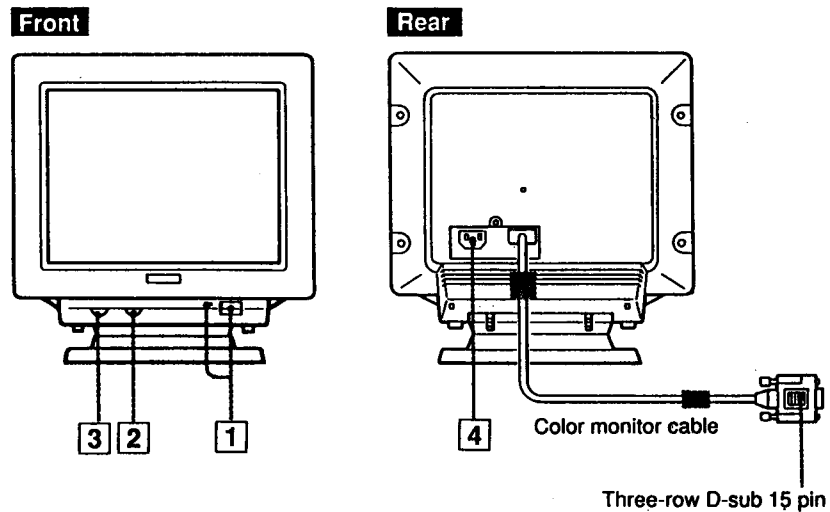
HOW TO FIND A GOOD EARTH GROUND

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)

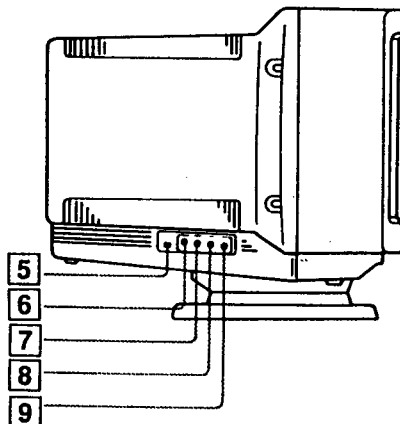


SECTION 1 GENERAL

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 to decrease contrast.
- 3 BRIGHTNESS control (⊙)**
Turn clockwise for a brighter display, or turn counterclockwise for a darker display.
- 4 AC IN connector**
Connect to an AC outlet with the supplied AC power cord.



5 AUTO SIZE switch

Depending on the microcomputer connected to the display, set this switch to the appropriate position.

LOCK: For the IBM PS/2 microcomputer using the VGA mode.

When this switch is set to LOCK, the timing is automatically adjusted to the VGA mode, and the H SIZE, H SHIFT, V SIZE and V CENT controls will have no effect.

ADJ: For other microcomputers having analog RGB output.

When this switch is set to ADJ, adjust the display with the H SIZE, H SHIFT, V SIZE and V CENT controls.

6 H SIZE (horizontal size) control

Turn this control to adjust the horizontal size of the display.

7 H SHIFT (horizontal shift) control

Turn this control to adjust the center of the display horizontally.

8 V SIZE (vertical size) control

Turn this control to adjust the vertical size of the display.

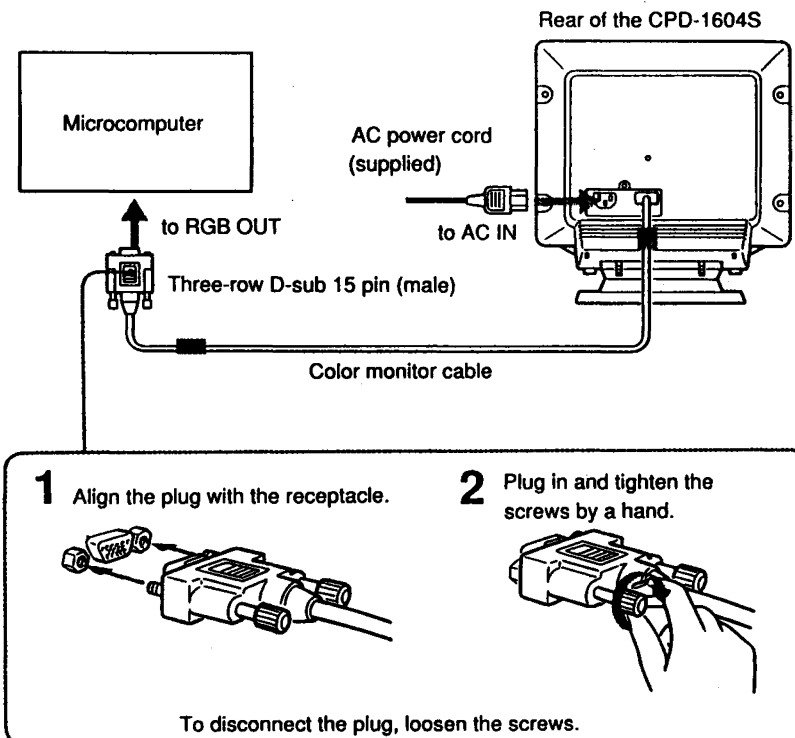
9 V CENT (vertical center) control

Turn this control to adjust the center of the display vertically.

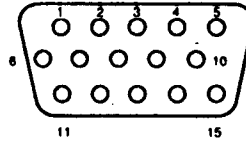
1-2. CONNECTIONS

Connect the power cord and the color monitor cable.

Be sure to turn the power of the unit off before making the connection.



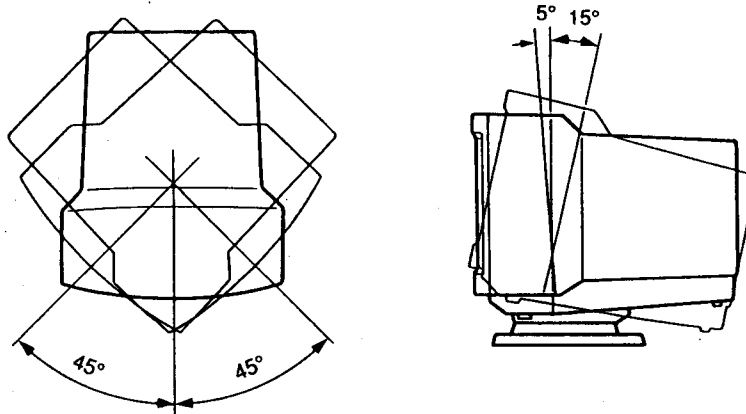
RGB Input Pin Assignment



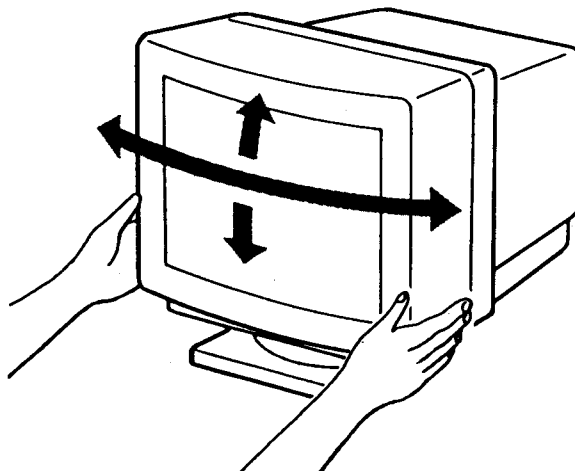
1	2	3	4	5	6	7	8	9
R	G	B	GND	FLG	GND	GND	GND	—
10	11	12	13	14	15			
GND	GND	—	H SYNC	V SYNC	—			

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 20° vertically.



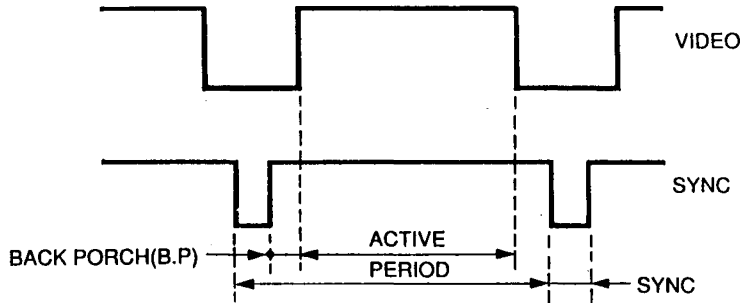
To turn the unit horizontally, hold it at its bottom with both hands as illustrated below.



1-4. TIMING CHART

The following timing chart shows approximate values.

MONITOR ACCEPTABLE TIMING EXAMPLE



1 VGA

		1	2	3
FREQ.	H (kHz)	31.47	31.47	31.47
	V (Hz)	70.1	70.1	59.9
H	PERIOD (μS)	31.78		
	SYNC	3.81	→	→
	B.P	1.91		
	ACTIVE	25.42		
V	PERIOD (H)	449	449	525
	SYNC	2	2	2
	B.P	34	59	32
	ACTIVE	400	350	480
SYNC POLARITY	H	NEGA	POSI	NEGA
	V	POSI	NEGA	NEGA
CLOCK FREQ.	(MHz)	25.175	25.175	25.175

2 1024 x 768 interace (fh = 35.52 kHz/fv = 87 Hz)

FREQ.	H (kHz)	35.52
	V (Hz)	87.0
H	PERIOD (μS)	28.15
	SYNC	3.92
	B.P	1.25
	ACTIVE	22.81
V	PERIOD (H)	408.5
	SYNC	4
	B.P	20/20.5
	ACTIVE	384
SYNC POLARITY	H	POSI
	V	POSI
CLOCK FREQ.	(MHz)	44.900

1, 2: When the AUTO SIZE SW is in the LOCKED position, picture size is automatically adjusted for the above listed video modes (1, 2).

All sizing controls on the left side of the monitor are therefore ineffective.

To adjust sizing for other video modes, change the SW to ADJ and adjust the controls.

Polarity free with the timing 1, 2 if the AUTO SIZE SW is not used.

3 35 kHz non-interace (example)
800 x 600

FREQ.	H (kHz)	35.16
	V (Hz)	56.0
H	PERIOD (μS)	28.44
	SYNC	3.11
	B.P	2.67
	DISPLAY	22.22
V	PERIOD (H)	628
	SYNC	14
	B.P	7
	ACTIVE	600
CLOCK FREQ.	(MHz)	36.000

4 48 kHz non-interace (example)
1024 x 768

FREQ.	H (kHz)	48.780
	V (Hz)	60.00
H	PERIOD (μS)	20.500
	SYNC	1.500
	B.P	2.000
	DISPLAY	16.000
V	PERIOD (H)	813
	SYNC	3
	B.P	39
	ACTIVE	768
CLOCK FREQ.	(MHz)	64.000

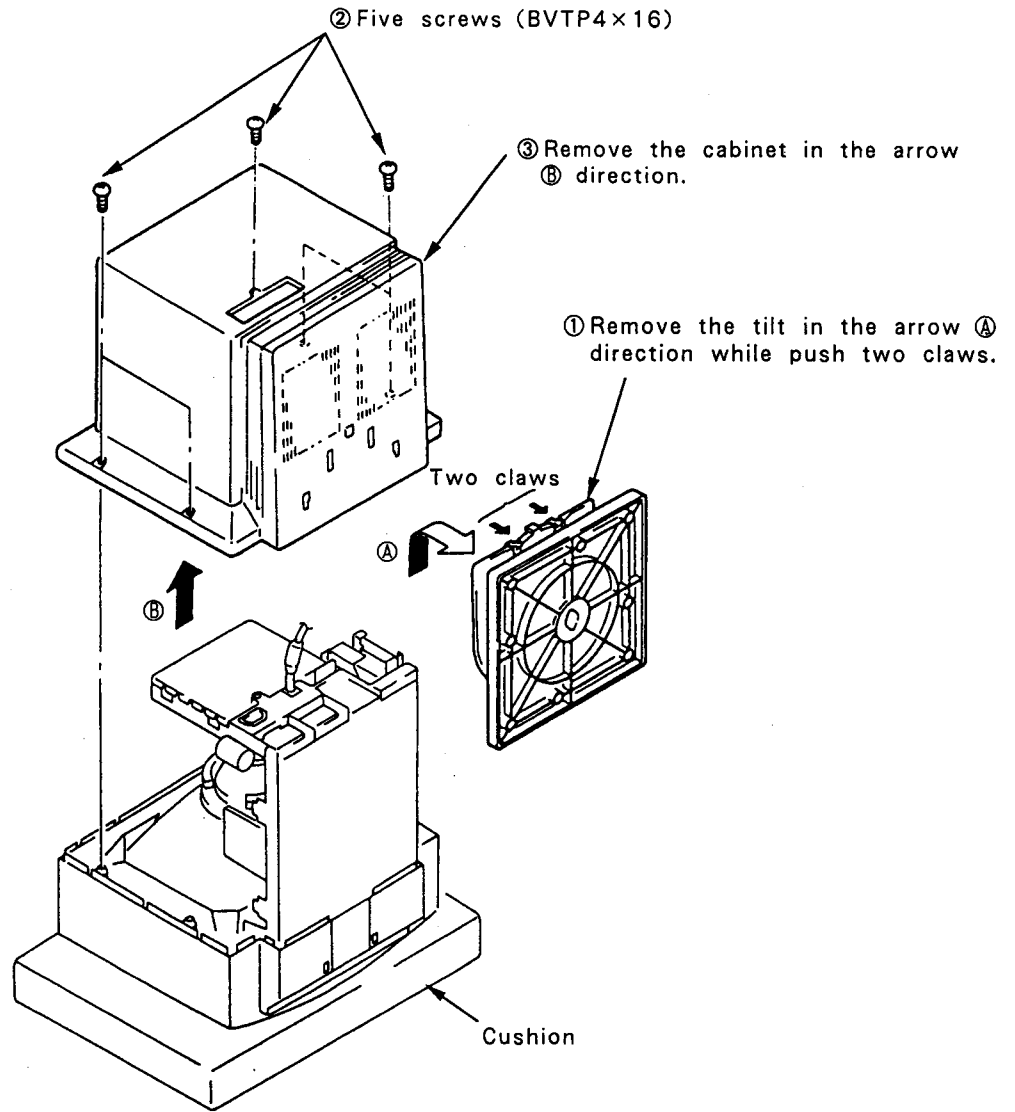
3, 4: SYNC POLARITY FREE

5 57 kHz non-interace
1024 x 768

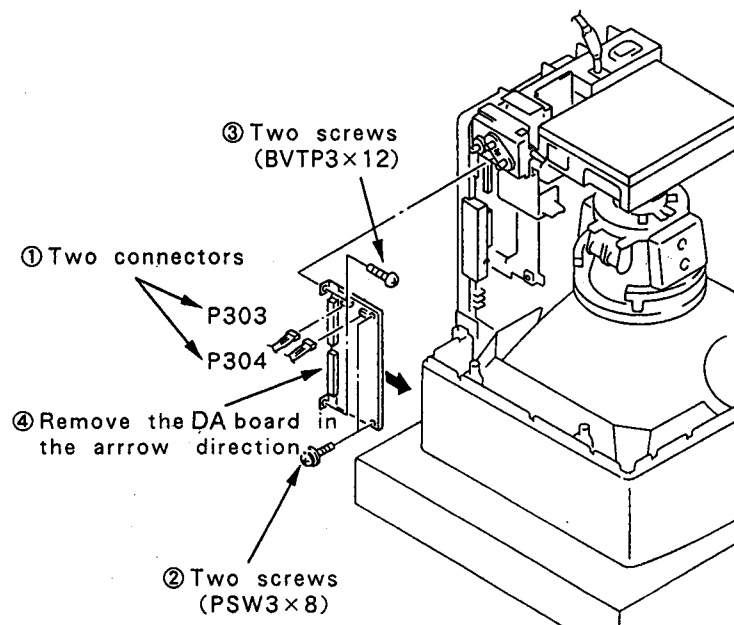
FREQ.	H (kHz)	56.476
	V (Hz)	70.069
H	PERIOD (μS)	17.707
	SYNC	1.813
	B.P	1.920
	ACTIVE	13.653
V	PERIOD (H)	806
	SYNC	6
	B.P	29
	ACTIVE	768
CLOCK FREQ.	(MHz)	75.000

SECTION 2 DISASSEMBLY

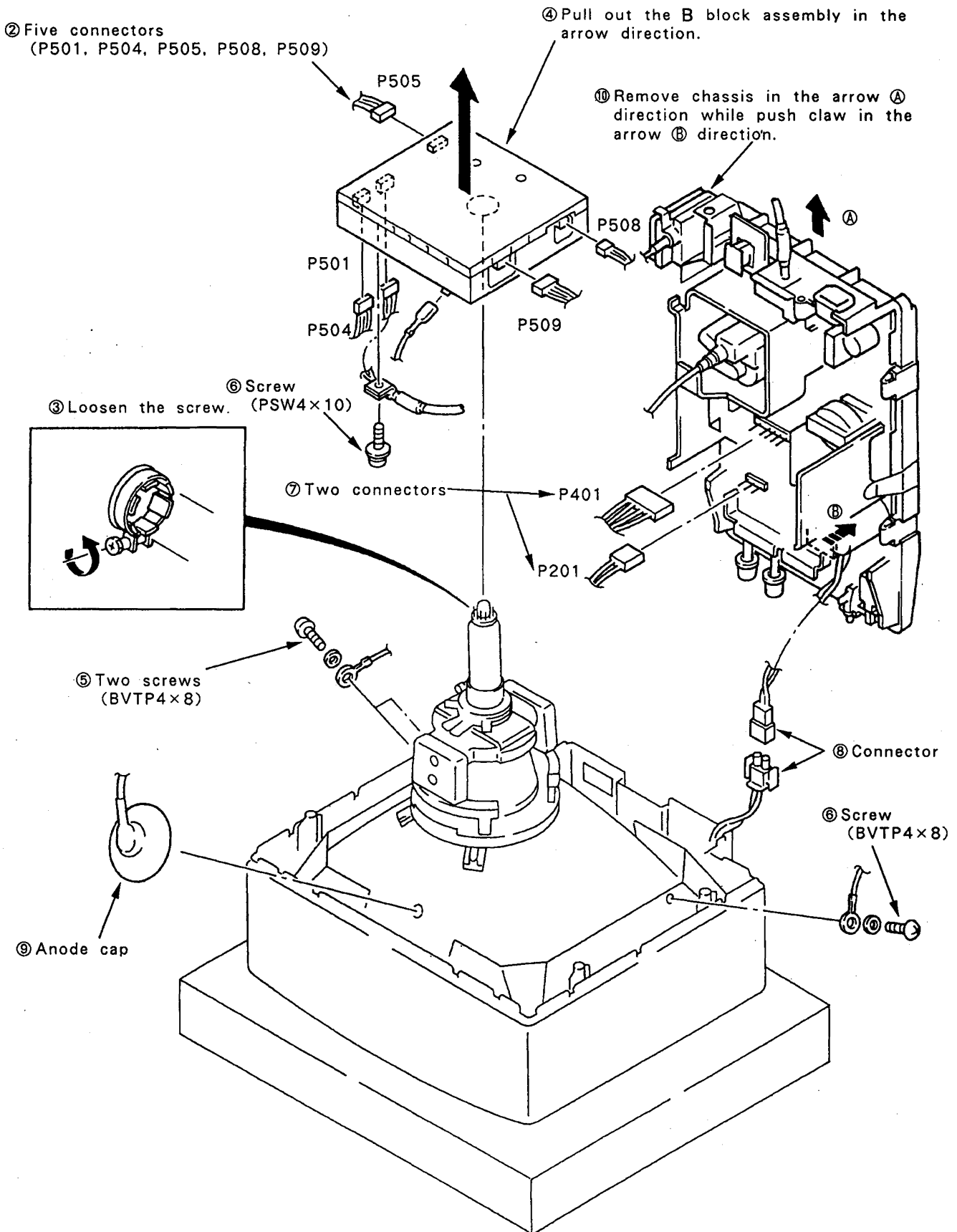
2-1. TILT AND CABINET REMOVAL



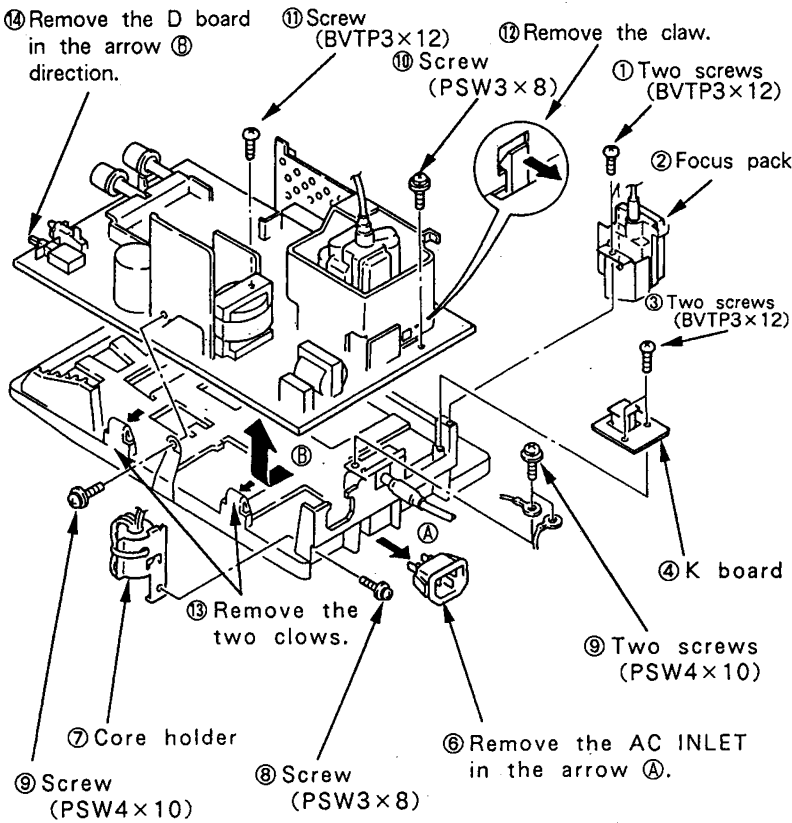
2-2. DA BOARD REMOVAL



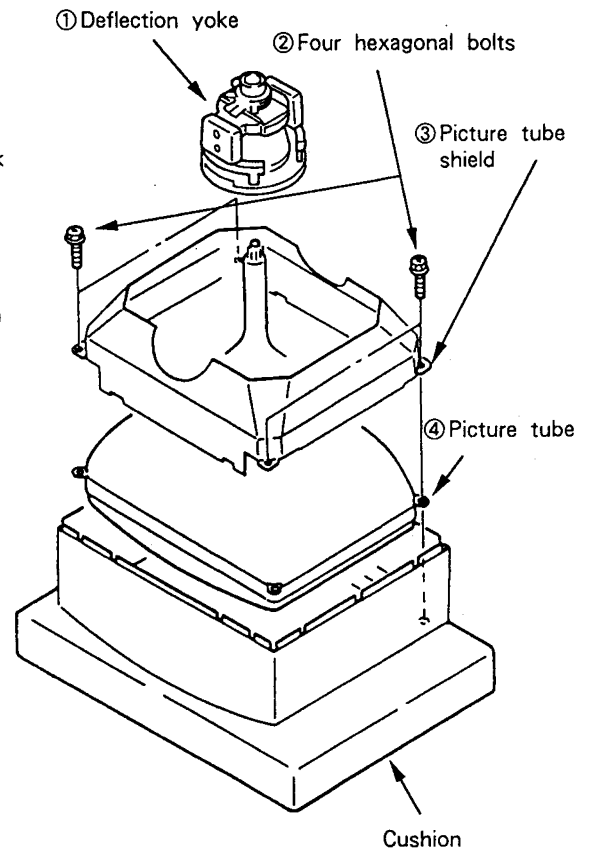
2.3. CHASSIS AND B BLOCK ASSEMBLY REMOVAL



2.4. D BOARD REMOVAL



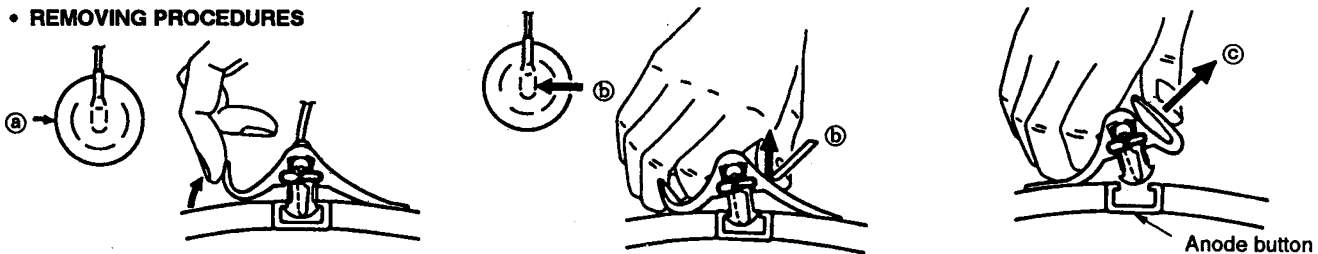
2.5. PICTURE TUBE REMOVAL



• REMOVAL OF ANODE-CAP

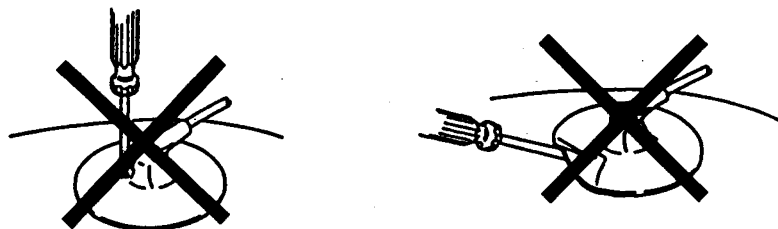
Note: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield, or carbon painted on the CRT, after removing the anode.

• REMOVING PROCEDURES



• HOW TO HANDLE AN ANODE-CAP

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



SECTION 3 SET-UP ADJUSTMENT

- 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.

- Signal generator : VG807, VG809 ... etc
(Astro Design)
- Color Annalyzer
- Degausser

Preparation

- Face the PICTURE TUBE to east or west so as not to be influenced by magnetic force.
- Turn ON the POWER switch, and degauss the entire screen with degausser.

3-1. BEAM LANDING

1. Receive a signal of 480 LINE ($f_H=31$ kHz) with signal generator.
2. Adjust the white balance, convergence and focus coarsely, and then set purity controls to center position as shown in Fig. 3-1.
3. Switch over the signal generator to green.
4. Move the deflection yoke backward, and adjust purity magnet so that the green on the screen to become in the center of screen as shown in Fig. 3-2.
5. Move the deflection yoke forward, and adjust with so that the entire screen to become green entirely.
6. Switch over the signal to blue and green, and confirm the condition.
7. When landing at the corners is not right, correct by using the magnet (Fig. 3-3).

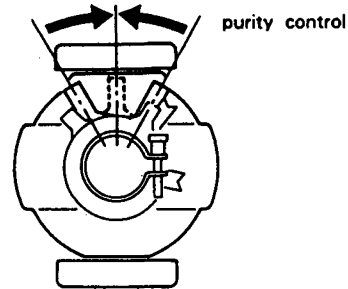


Fig. 3-1

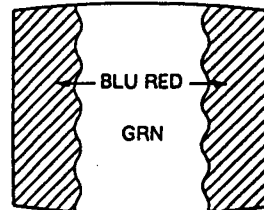


Fig. 3-2

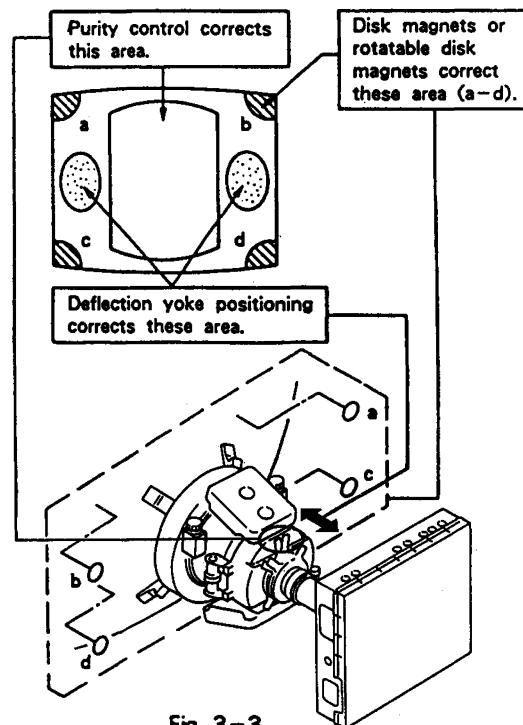
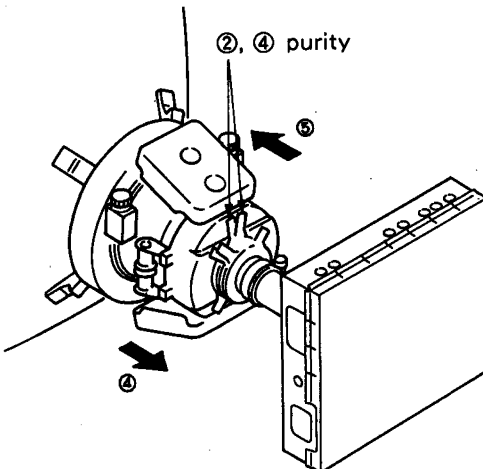


Fig. 3-3

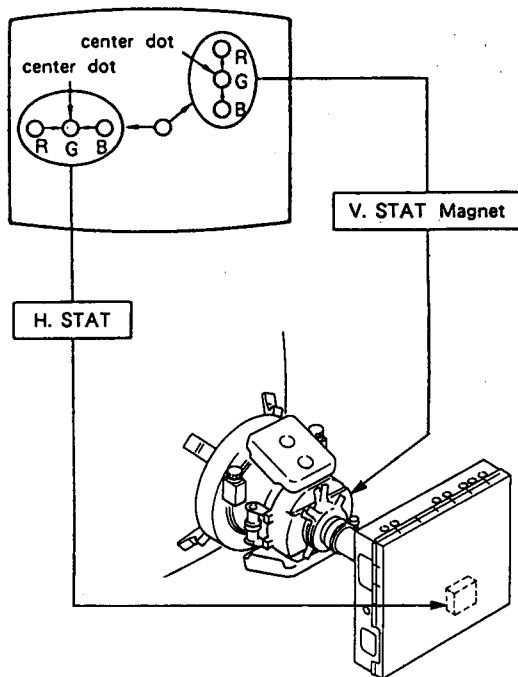
3-2. CONVERGENCE

(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)

1. Receive a dot signal and Set CONTRAST to normal. (48kHz)
2. Adjust H. STAT VR to coincide red, green and blue dots on the center of screen. (Horizontal movement)
3. Adjust V. STAT magnet to coincide red, green and blue dots on the center of screen. (Vertical movement)



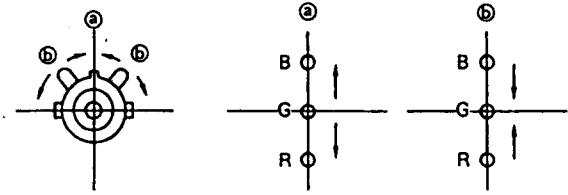
- ※ If the red, green and blue dots do not coincide on the center of screen with H. STAT VR, perform adjustment using V. STAT at the same time while tracking.

(Tilt the V. STAT magnet and adjust static convergence to open or close the V. STAT magnet.)

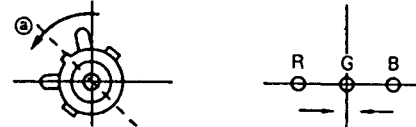


- When the V. STAT magnet is moved in the direction of arrow ㉓ and ㉔, red, green and blue dots move as shown below.

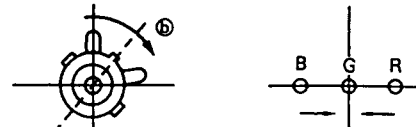
- ① When moving the V. STAT Magnet open or close.



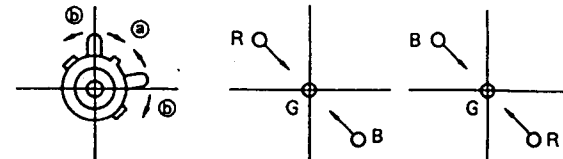
- ② When moving the V. STAT magnet counterclockwise.



- ③ When moving the V. STAT magnet clockwise.



- ④ When tilt the V. STAT magnet and open or close.

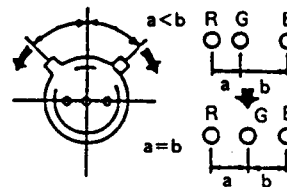


- ※ If the red and green dots do not coincide with blue dot, adjustment with BMC (6-poles) magnet.

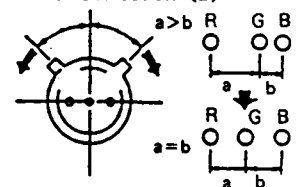
- HMC and VMC correction for BMC (6-Poles) magnet.

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

HMC Correction (A)

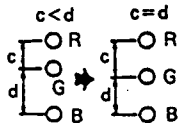
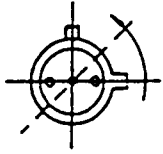


HMC Correction (B)

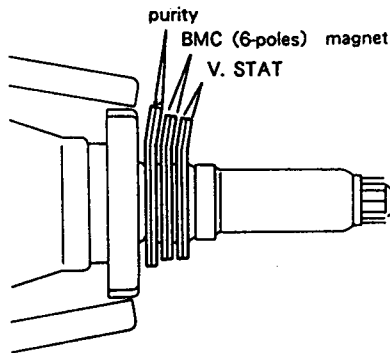
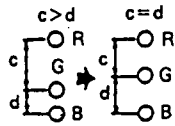
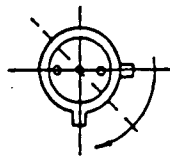


2. VMC (Vertical Misconvergence) correction and motion of the Electron Beam with the BMC (6-poles) magnet.

VMC Correction (A)



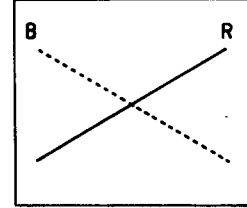
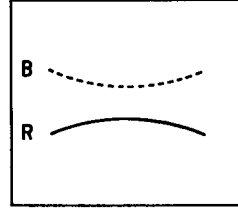
VMC Correction (B)



- Adjust XBV misconvergence with XBV reactor (the one on the right and front as seen from the CRT funnel).
- Adjust XCV misconvergence with XCV reactor (the one on the right and rear as seen from the CRT funnel).
- Note :
 - * When XCV is too large to correct, adjust with the deflection yoke vertical neck swing.
 - * For XBV correction, re-adjust H. SIZE.
- Adjust H. AMP with APH reactor (the one on the left and front as seen from the CRT funnel).
- Adjust H. TILT with TLH reactor (the one on the left and rear as seen from the CRT funnel).
- Note :
 - Re-adjust H. STAT tool. If there is still horizontal tilt, adjust it by swinging the neck right and left.
 - For H. AMP correction, re-adjust H. SIZE.
- Adjust YCH misconversion with VR YH on the deflection yoke (the one on the top and rear as seen from the CRT funnel).
- Adjust the upper and lower TLV with VR YV on the deflection yoke (the one on the top and front as seen from the CRT funnel).

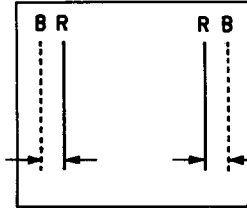
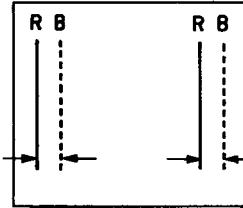
XCV misconvergence
When turning it clockwise, lines move as shown in the figure.
When turning it counter-clockwise, the contrary misconvergence appears.

XBV misconvergence

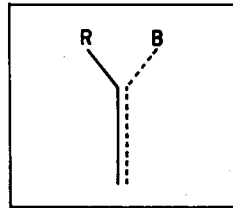


H. TILT misconvergence
When turning it clockwise, lines move as shown in the figure.
When turning it counter-clockwise, the contrary misconvergence appears.

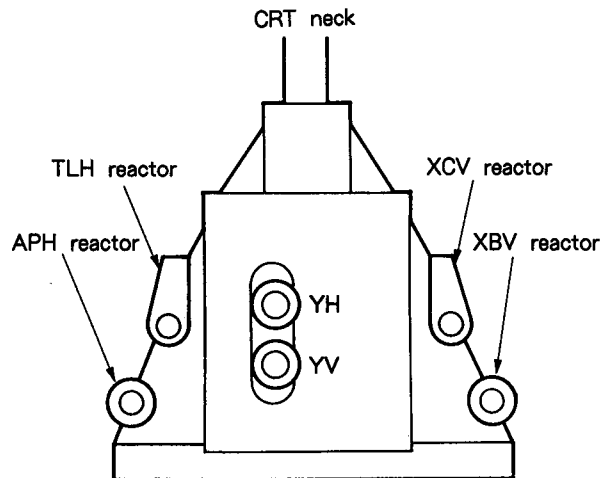
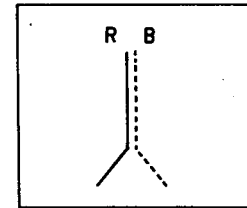
H. AMP misconvergence



YBH (TOP) misconvergence



YBH (BOTTOM) misconvergence

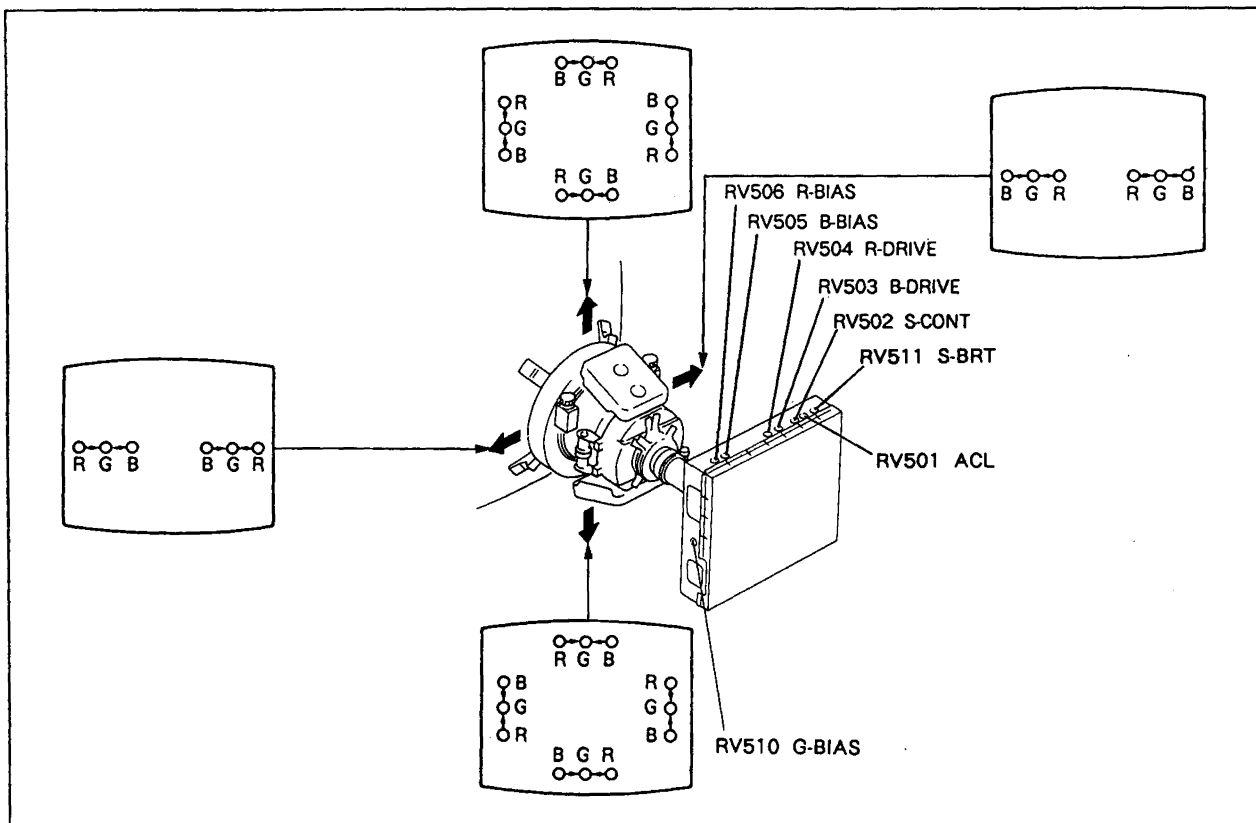


(2) Horizontal and Vertical Dynamic Convergence

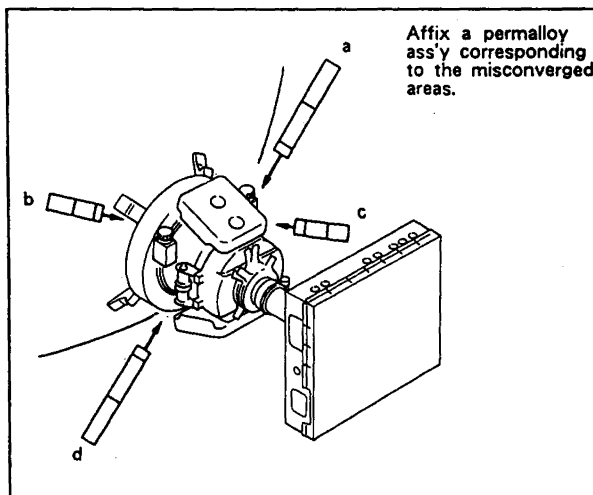
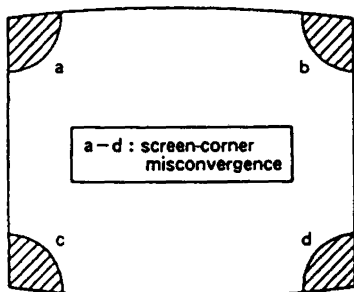
Adjustment the environs of the Screen

(Dynamic Convergence Adjustment)

1. Loosen deflection yoke screw.
2. Remove deflection yoke spacers.
3. Move the deflection yoke for best convergence.
4. Tighten the deflection yoke screw.
5. Install the deflection yoke spacers.

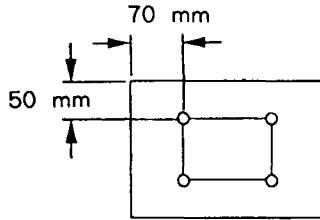


(3) Screen-corner Convergence



3-3. FOCUS ADJUSTMENT

1. Turn the signal to 48kHz MODE.
2. Receive a dot signal.
3. Adjust FOCUS VR so that the following figure point for best focus. (H. V tracking)



3-4. WHITE BALANCE

Check that the size, position, distortion, and convergence have been adjusted, and that aging has been carried out for more than thirty minutes.

1. Receive the VGA GRAPHICS MODE ($f_H = 31.5$ kHz, 480 LINE).
2. Set the VRs as follows.

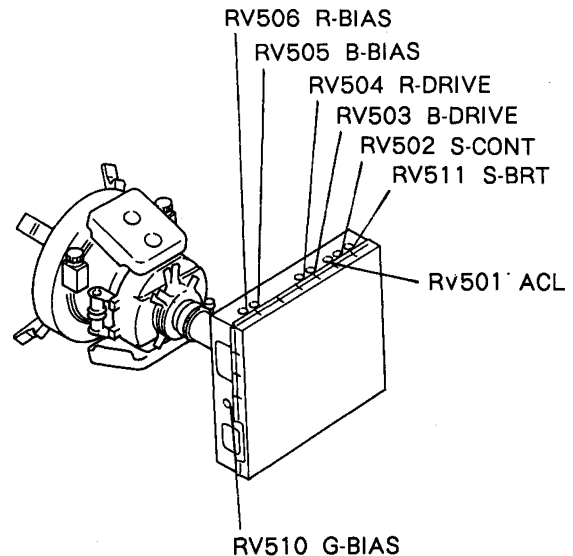
BRT	RV205	CENT
CONT	RV204	MAX
SUB-CONT	RV502	CENT
SUB-BRT	RV511	CENT
R-DRIVE	RV504	CENT
B-DRIBE	RV503	CENT
R-BIAS	RV506	MIN
G-BIAS	RV510	MIN
B-BIAS	RV505	MIN
ACL	RV501	MAX

3. Check that the size is as specified. After checking, change the VIDEO to a non signal.
Horizontal 300 mm
Vertical 225 mm
4. Use the SCREEN VR (attached to the FOCUS PACK) to display raster.
Use R,G,B-BIAS VR to adjust any 1 ch VR to MIN, and adjust so that it becomes almost white ($X = 0.283, Y = 0.298$ approx. ± 0.05).
5. Use the SCREEN VR to adjust the raster to 3 unit at CONT MAX and BRT MAX.
6. Receive the VGA 31.5 kHz, 480 LINE, VIDEO 0.714 Vp-p ± 0.002 .
7. Receive the white 6% output image rate, adjust the R, B-DRIVE VR so that the white balance becomes $X = 0.283, Y = 0.298$ and adjust the SUB-CONT VR so that the luminance becomes 135 nit.

8. Adjust the CONTRAST VR to MIN, and obtain the white balance at luminance 5 nit using R, G, B-BIAS VR.
 $X = 0.283, Y = 0.298$
(Decrease it using the BRIGHT VR if luminance 10 nit cannot be obtained.)
9. Repeat steps 7 to 8, and obtain the white balances at 135 nit and 5 nit.
10. Receive the VIDEO non-signal, check that the raster is CUT-OFF with BRT CENTER, CONT MAX.
11. Receive the all white signal (VGA 31.5 Hz, 480 LINE), and adjust ACL VR (RV501) so that the luminance becomes 95 ± 10 nit at both BRT MAX and CONT MAX.

3-5. BRIGHT CONTROLLABLE CONFIRMATION

1. Input a signal of 480 LINE ($f_H = 31$ kHz, entire-white, 0.714 Vp-p).
2. CONTRAST control maximum
3. Confirm the variation of luminance signal when controlling BRIGHT volume as follows.
 - 1) Confirm the difference of luminance signal on maximum position as compared with the center click position is more than +10 NIT.
 - 2) Confirm the difference of luminance signal on minimum position as compared with the center click position is less than -10 NIT.



SECTION 4
SAFETY RELATED ADJUSTMENT

CPD-1604S/1604SA

CPD-1604S/1604SA

RV402, HV REGULATOR, HV HOLD-DOWN AND BEAM LIMIT CIRCUIT CONFIRMATION

When replacing the following components (marked with \square on the schematic diagram), make this confirmation.

D BOARD IC901, IC902, IC401, D930, C408, C409, C410, C411, C412, C414, C415, C422, R414, R434, R435, R441, T402 (FBT), T901, RV402, DY (Deflection Yoke)

DA (DC-1)
BOARD IC101, IC301, D303, R327, R388

1. HV REGULATOR CIRCUIT CONFIRMATION

- 1) Receive a signal of $f_n=48\text{kHz}$.
- 2) Set the CONT and BRIGHT controls to minimum. (Cut-Off condition).
- 3) Connect a digital multimeter to pin ② of P402 on D board.
- 4) Confirm the voltage is less than 6.48V DC.
- 5) If step 4) is not satisfied, adjust them with RV402.

2. HV HOLD-DOWN CIRCUIT CONFIRMATION

- 1) Receive a signal of $f_n=48\text{kHz}$.
- 2) Set the CONT and BRIGHT controls to minimum. (Cut-Off Condition).
- 3) Apply an external DC voltage gradually to pin ② of P402 on D board, confirm that the minimum voltage is less than 7.40 V DC whereby the HOLD-DOWN circuit operates immediately and raster disappears.

3. BEAM LIMITER CIRCUIT CONFIRMATION

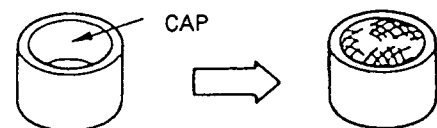
- 1) Receive a signal of $f_n=48\text{kHz}$.
- 2) Adjust CONT and BRIGHT controls so that the screen luminance to become 100 NIT.

(CONT control maximum)
(BRIGHT control center)

- 3) Connect a digital multimeter to pin ① of P402 on D board.
- 4) Confirm that the voltage is -2.80 ± 1.00 VDC
- 5) Apply an external DC voltage gradually to pin ① of P402 on D board, and when the voltage becomes more than -11.30V , confirm the BEAM-LIMITER circuit operates and raster disappears.

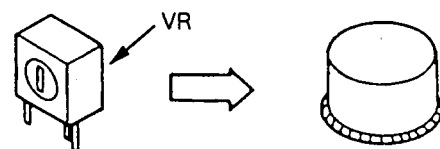
NOTE : After adjustment, cover on \square RV402 with seal cap as follows.

① Insert in seal cap with RTV (silicone) as follows.



- seal cap (3-710-578-01)
- RTV (KE-490, 7-322-065-19)

② Cover the seal cap on RV402, and make paste together silicone and printed board.



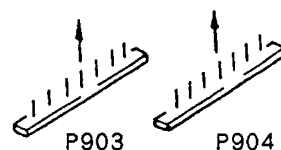
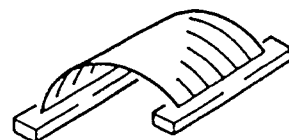
WARNING :
IF RV402 (sealed variable resistor) replacement is required, federal regulations require that after adjustment the control is to be sealed so no further adjustment can be made to this resistor.

OVP CIRCUIT CONFIRMATION

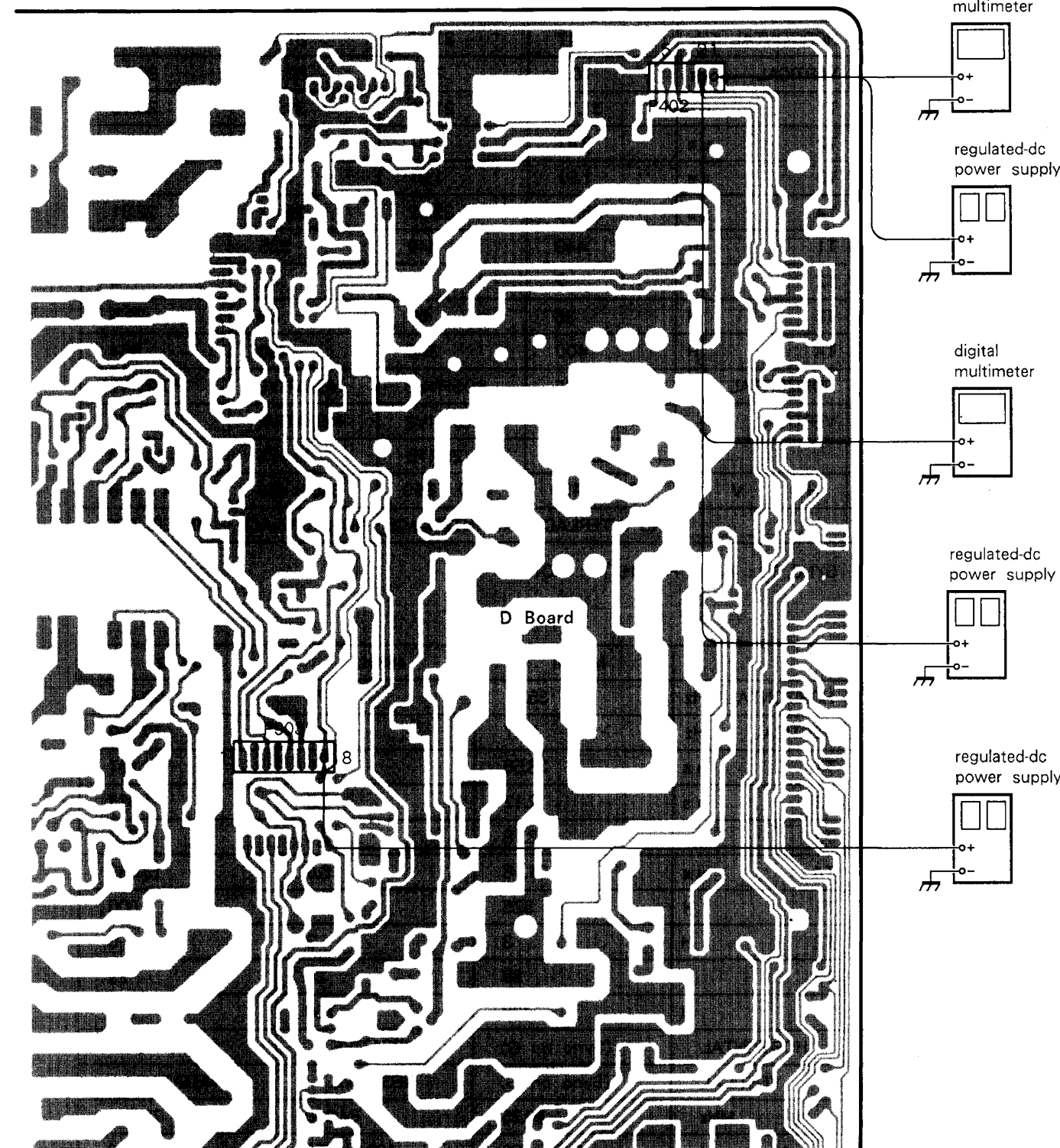
When replacing following components, perform this confirmation.

D BOARD Q901, R922, R923, D927 D928, D929

1. Turn OFF the POWER switch.
2. Remove P903 and P904 connectors from D board.



3. Apply an external DC voltage of less than 216.00V DC (SET UP THE CURRENT LIMITER TO 0.2 A) to pin ③ of P903 on D board for two second.
4. At the moment (item 3), confirm the OVP circuit operates immediately and an external DC voltage is drop by limiter operation.
5. If OVP circuit is not operate, check up Q901, R913, R914 and L906.



**SECTION 5
CIRCUIT ADJUSTMENTS**

		VGA 1	VGA 2	VGA 3	8514
FREQUENCY	HORIZONTAL KHz	31.47	31.47	31.47	35.5
	VERTICAL Hz	70.1	70.1	59.94	86.96
HORIZONTAL	T1 μ s	31.78	31.78	31.78	28.15
	T2 μ s	3.81	3.81	3.81	3.92
	T3 μ s	1.91	1.91	1.91	1.25
	T4 μ s	25.42	25.42	25.42	22.81
VERTICAL	T1 H	449	449	525	408.5
	T2 H	2	2	2	4
	T3 H	35	60	33	20.5
	T4 H	400	350	480	384
SYNC POLARITY	HORIZONTAL	NEGATIVE	POSITIVE	NEGATIVE	POSITIVE
	VERTICAL	POSITIVE	NEGATIVE	NEGATIVE	POSITIVE
CLOCK	MHz	25.175	25.175	25.175	44.900
RESOLUTION	H x V	640 x 400	640 x 350	640 x 480	1024 x 768
MODE		NO INTERLACE	NO INTERLACE	NO INTERLACE	INTERLACE

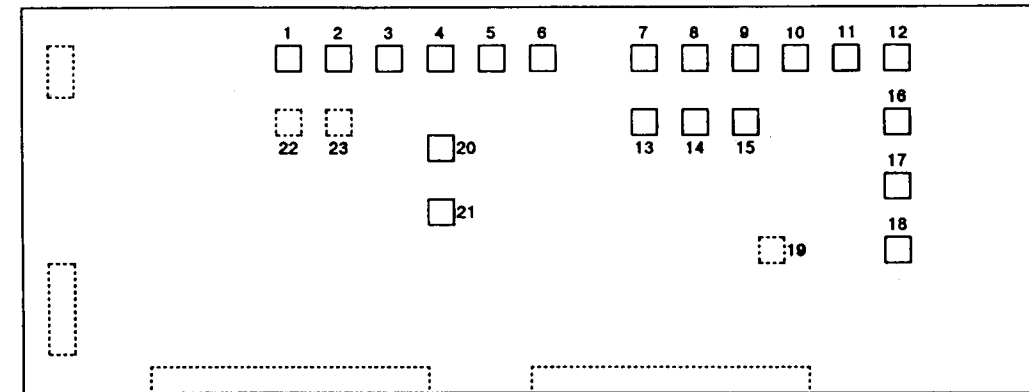
T1 : PERIODE, T2 : SYNC, T3 : BACK PORCH, T4 : ACTIVE

		Mac II	48KHz	57KHz
FREQUENCY	HORIZONTAL KHz	35.01	48.78	56.476
	VERTICAL Hz	66.7	60	70.069
HORIZONTAL	T1 μ s	28.56	20.5	17.707
	T2 μ s	2.12	1.5	1.813
	T3 μ s	3.16	2.0	1.920
	T4 μ s	21.16	16.0	13.653
VERTICAL	T1 H	525	813	806
	T2 H	3	3	6
	T3 H	39	39	29
	T4 H	480	768	768
SYNC POLARITY	HORIZONTAL	(Sync on G)	NEGATIVE	NEGATIVE
	VERTICAL	(Sync on G)	NEGATIVE	NEGATIVE
CLOCK	MHz	30.25	64.000	75.000
RESOLUTION	H x V	640 x 480	1024 x 768	1024 x 768
MODE		NO INTERLACE	NO INTERLACE	NO INTERLACE

T1 : PERIODE, T2 : SYNC, T3 : BACK PORCH, T4 : ACTIVE

5-1. DA (DC-1) VR POSITION

DA (DC-1) VR POSITION



No.	Adjustment	Reference	Settings during VGA switch locked
1	SIDE PIN (L)	RV307	
2	SIDE PIN (H)	RV310	
3	PARA CORE	RV308	
4	PIN PHASE	RV309	
5	PIN UP	RV313	
6	PIN BAL	RV311	
7	HORIZONTAL POSITION (L)	RV304	(LOCK)
8	HORIZONTAL SIZE (L)	RV306	(LOCK)
9	VERTICAL SIZE (L ₁)	RV252	480 LINE (LOCK)
10	VERTICAL SIZE (L ₂)	RV253	400 LINE (LOCK)
11	VERTICAL SIZE (L ₃)	RV254	350 LINE (LOCK)
12	VERTICAL POSITION	RV255	
13	HORIZONTAL POSITION (M)	RV303	during receiving 8514 (LOCK)
14	HORIZONTAL SIZE (M)	RV305	during receiving 8514 (LOCK)
15	VERTICAL SIZE (M)	RV251	during receiving 8514 (LOCK)
16	User VR setting (1)	RV257	
17	User VR setting (2)	RV256	
18	User VR H size maximum value setting	RV312	
19	20V setting	RV314 (*)	
20	F ₀ setting (FH = Max)	RV301	
21	F ₀ setting (FH = Min deviation correction)	RV302	
22	F-V conversion voltage setting (6V during FH = Max)	RV601 (*)	
23	Frequency setting of relay switchover signal (40 kHz)	RV602 (*)	

(*) indicate DA (DC-1) board manufacturer adjustment

H fo ADJUSTMENT (RV301, RV302)

(57 kHz)

1. Receive a signal of 57 kHz.
2. Short circuit between pin ① and pin ③ of TP301 with a jumper wire.
3. Connect a frequency counter across collector of Q402 and ground.
4. Adjust RV301 (FX MAX) 56.47 Hz \pm 500 Hz on the frequency counter.

(31 kHz)

1. Receive a signal of 31 kHz.
2. Short circuit between pin ① and pin ③ of TP301 with a jumper wire.
3. Connect a frequency counter across collector of Q402 and ground.
4. Adjust RV302 (FH MIN) for 31.47 kHz \pm 500 Hz on the frequency counter.

NOTE :

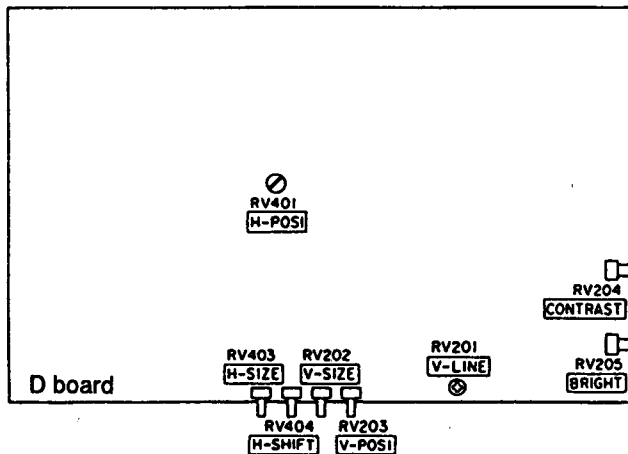
H F_o ADJUSTMENT

If there is not frequency counter :

It has to short No. 1. 3 of TP301, and adjust RV301 with 31.47kHz mode. It doesn't have to stream monitor. also RV302 adjust with 57kHz mode.

The all white signal correspond easier.

5-2. D AND DA (DC-1) BOARD ADJUSTMENT



H. POSITION (RV401, SW401)

1. Input a cross-hatch signal of 57 kHz.
2. Display a back-raster on the screen with G2 VR.
3. Adjust RV401 (H. POSI) so that the back-raster position to come center.
4. In case of the back-raster is not move till center, using SW401 (H. POSI TAP SW).

V. LINE, V. SIZE, V. POSI (RV201, RV202, RV203)

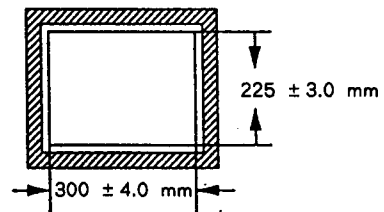
1. Input a cross-hatch signal of 48 kHz.
2. Adjust RV203 (V. POSI) so that the vertical position to come center.
3. Adjust vertical linearity with RV201 (V. LINE).
4. Adjust vertical size with RV202 (V. SIZE).

H. SIZE, LIMITER (RV403, RV312)

1. Input a cross-hatch signal of 57 kHz MODE.
2. Switch over AUTO SIZE SW (SW402) to LOCK position.
3. Set RV403 (H. SIZE) of user volume to minimum.
4. Adjust RV312 (HS LIMIT) so that the horizontal size to become 298 \pm 1 mm.

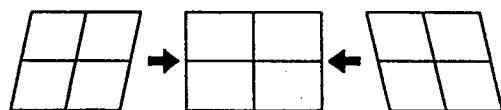
48 kHz, DEFLECTION SYSTEM ADJUSTMENT

- * Input a cross-hatch signal of 48 kHz as following adjustment.
- H. SIZE (RV403)
Adjust RV403 (H. SIZE) on D board so that the horizontal size to become 300 \pm 4.00 mm.



• **PARA CORE (RV308)**

Adjust direct association and parallelogram strain with RV308 (PARA CORE) on DA (DC-1) board.



- PIN PHASE (RV309)
Adjust trapezoidal strain with RV309 (PIN PHASE) on DA (DC-1) board.

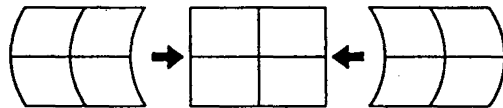


- SIDE PIN (RV310)
Adjust pin cushion strain about right and left with RV310 (SIDE PIN) on DA (DC-1) board.

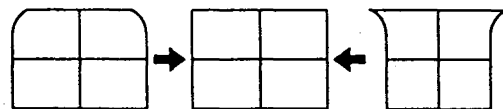


NOTE: In case of pin cushion strain of right and left rate is differ, correct them with RV311 (PIN BAL) too.

- PIN BAL (RV311)
Adjust PIN balance strain with RV311 (PIN BAL) on DA (DC-1) board.



- PIN UP (RV313)
Adjust upper PIN strain with RV313 (PIN UP) on DA (DC-1) board.



<GRAPHIC MODE>

31 kHz, H. PHASE, H. SIZE (RV304, RV305)

Switch over AUTO SIZE SW to LOCK position.

1. Input a cross-hatch signal of GRAPHIC mode (31 kHz, 480 LINE).
2. Adjust RV304 (H. PHASE (L)) so that the horizontal direction of screen to come center.
3. Adjust RV306 (H. SIZE (L)) so that the horizontal size to become 300 ± 4.00 mm.

<GRAPHIC MODE>

31 kHz, V POSI, V SIZE (RV255, RV252)

Switch over AUTO SIZE SW to LOCK position.

1. Input a cross-hatch signal of GRAPHIC mode (31 kHz, 480 LINE).

2. Adjust RV255 (V. POSI (L)) so that the vertical direction of screen to come center.
3. Adjust RV252 (V. SIZE (L1)) so that the vertical size to become 225 ± 3.00 mm.

<GRAPHIC MODE>

31 kHz, PIN AMP (RV307)

1. Input a cross-hatch signal of GRAPHIC mode (31 kHz, 480 LINE).
2. Adjust RV307 (SIDE PIN (LOW)) so that the right and left becomes straight line.
3. Correct the H. SIZE with RV305 (H. SIZE (L)), confirm they have not strain.

31 kHz AND 48 kHz, STRAIN CORRECTION (RV308, RV309, RV311, RV313)

1. Adjust RV308 (PARA CORE), RV309 (PIN PHASE), RV311 (PIN BAL) and RV313 (PIN UP) to become best condition about both 31 kHz (480 LINE) mode and 48 kHz mode.

TEXT MODE (31 kHz, 400 LINE) V. SIZE (RV253)

Switch over AUTO SIZE SW to LOCK position.

1. Input a cross-hatch signal of 31 kHz (400 LINE).
 2. Adjust RV253 (V. SIZE (L2)) so that the vertical size to become 225 ± 3.00 mm.
- ※ Regarding V. POSI adjustment, GRAPHIC mode (31 kHz, 480 LINE) adjustment take priority of another adjustment, and perform adjustment only V. SIZE.

EGA EMULATE MODE (31 kHz, 350 LINE) V. SIZE (RV254)

Switch over AUTO SIZE SW to LOCK position.

1. Input a cross-hatch signal of 31 kHz (350 LINE).
 2. Adjust RV254 (V. SIZE (L3)) so that the vertical size to become 225 ± 3.00 mm.
- ※ Regarding V. POSI adjustment, GRAPHIC mode (31 kHz, 480 LINE) adjustment take priority of another adjustment, and perform adjustment only V. SIZE.

8514 MODE (35 kHz) H. PHASE, H. SIZE (RV303, RV306)

Switch over AUTO SIZE 'SW to LOCK position.

1. Input a cross-hatch signal of 35 kHz (8514).
2. Adjust H. PHASE and H SIZE with RV303 (H PHASE (M)) and RV305 (H SIZE (M)):

8514 MODE (35 kHz) V. SIZE (RV251)

Switch over AUTO SIZE SW to LOCK position.

1. Input a cross-hatch signal of 35 kHz (8514).
 2. Adjust RV251 (V. SIZE (M)) so that the vertical size to become 225 ± 3.00 mm.
- ※ Regarding V. POSI adjustment, GRAPHIC mode (31 kHz, 480 LINE) adjustment take priority of another adjustment, and perform adjustment only V. SIZE.

EACH FREQUENCY (MODE) CONFIRMATION

Confirm screen size and position strain are not sliding, and confirm each mode about TEXT (31 kHz, 400 LINE), EGA emulate (31 kHz, 350 LINE), GRAPHIC (31 kHz, 480 LINE), 8514 (35 kHz) and 48 kHz, 57 kHz.

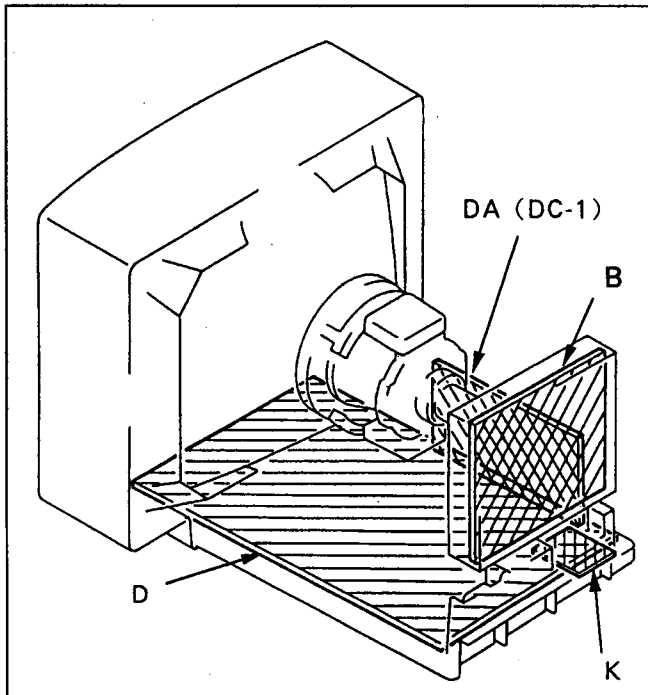
48kHz mode Adjustment

1. It receives 48kHz mode.
2. H. SIZE (RV403) adjust to keep 300 mm.
3. H. SHIFT (RV404) adjust to be center the horizontal position.
4. V. SIZE (RV202) adjust to become 225 mm the vertical size.
5. V. CENT (RV203) move to center click.
6. SUB-POSI 1 (RV256) and SUB-POSI 2 (RV257) adjust for the vertical screen position become center.







In this time, the variable extence have to be ± 5 mm.



(If you move RV256 and RV257, then the V. CENT's [RV203's] variable extence changes.)


6-1. CIRCUIT BOARDS LOCATION






6-2. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

- All resistors are in ohms. 1/4W unless otherwise noted.
k Ω : 1000 Ω , M Ω : 1000k Ω .
- All capacitors are in μ F unless otherwise noted. pF : μ μ F
50WV or less are not indicated except for electrolytics and tantalums.
- All electrolytics are in 50V unless otherwise specified.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
-  : nonflammable resistor.
-  : fusible resistor.
-  : panel designation and adjustment for repair.
- Δ : internal component.
- The components identified by  in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy 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 RV402 adjustments on page 17.)
When replacing the part in below table, be sure to perform the related adjustment.

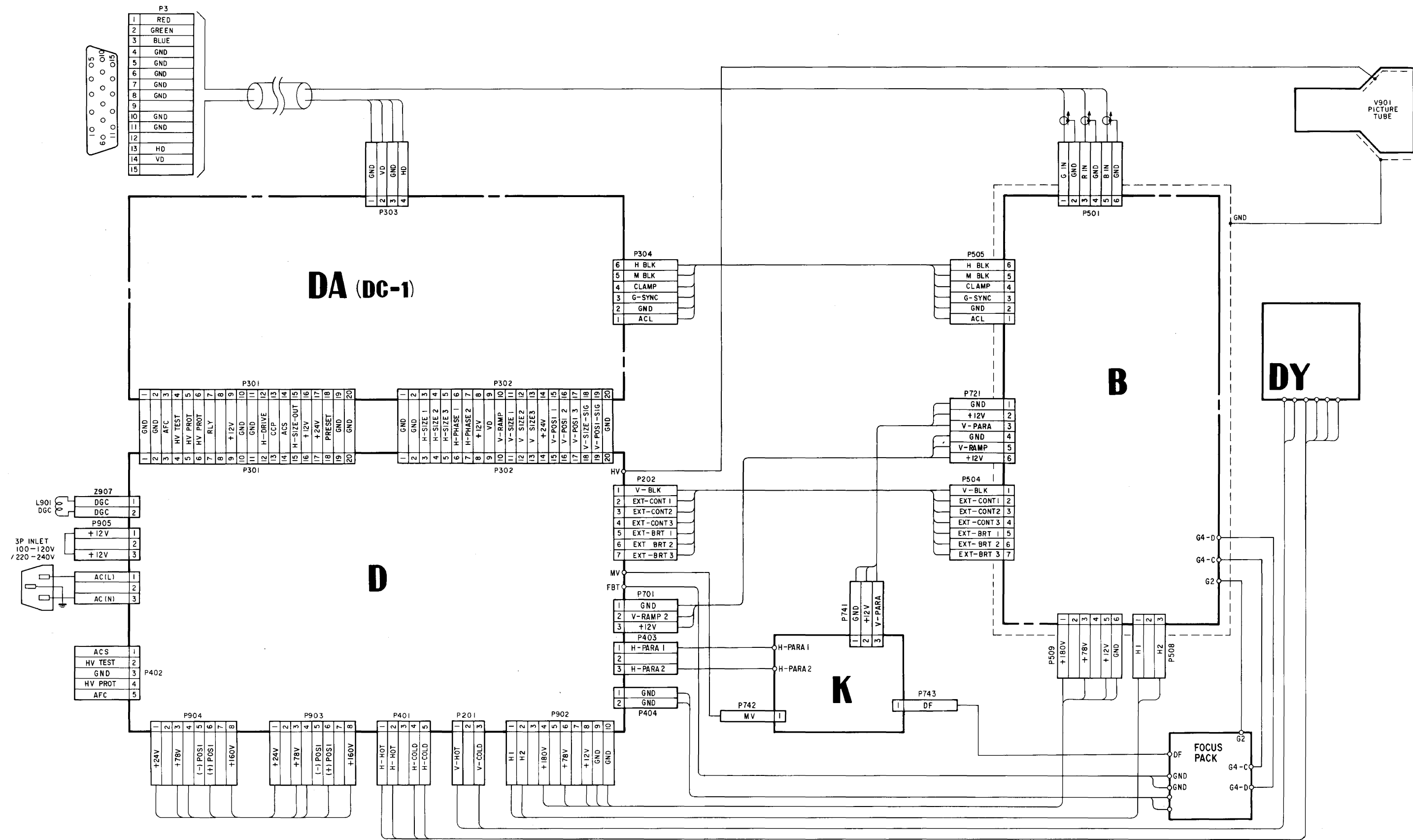
- Circled numbers refer to waveforms.
- All voltages are in V.
- Voltages are dc with respect to ground unless otherwise noted.
- Reading are taken with a color-bar signal input.
(DIGITAL VIDEO GENERATOR H : 31.47kHz, V : 70.1Hz)
- Readings are taken with a 10M Ω digital multimeter.
- Voltage variations may be noted due to normal production tolerances.
- Can not be measured.
-  : B+line.
-  : B-line.

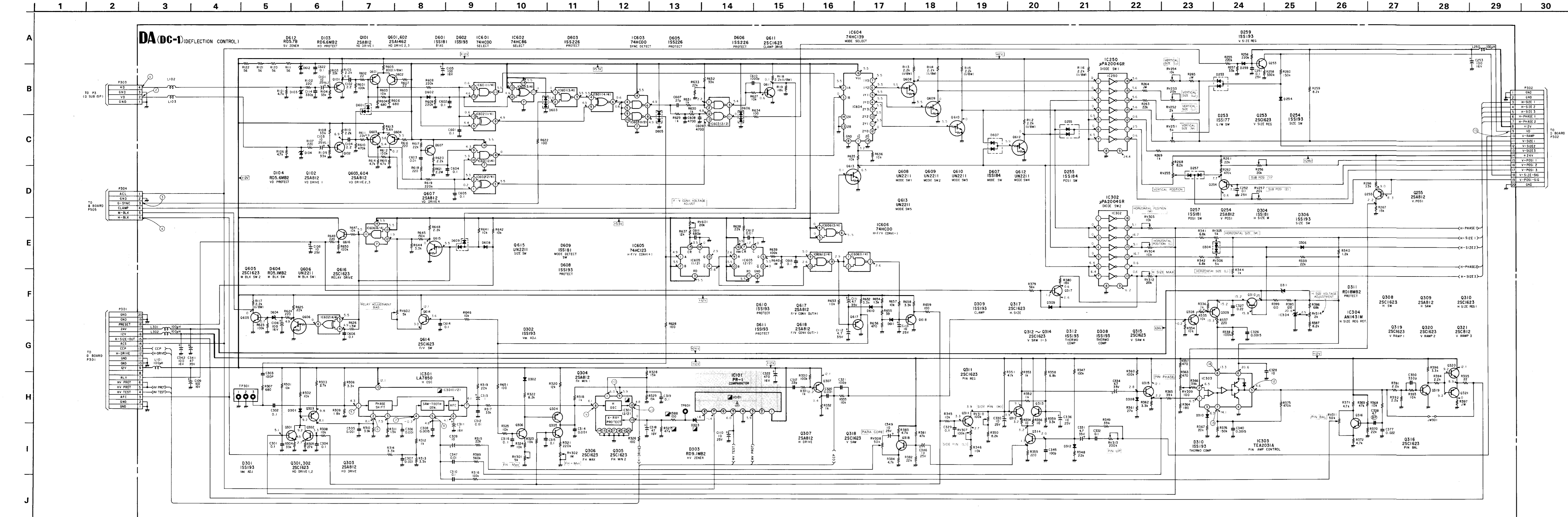
Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

Note: 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.

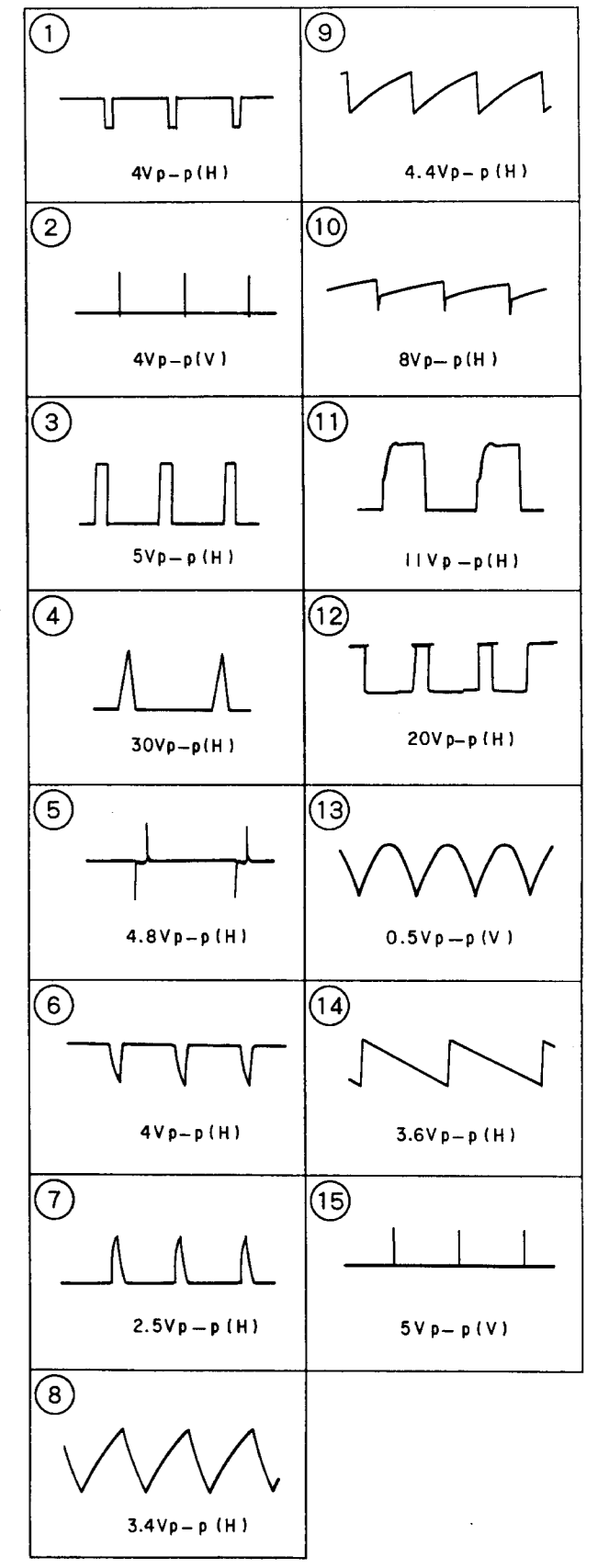
Part replaced ()	Adjustment ()
IC901, IC902, IC401, D930, C408, C409, C410, C411, C412, C414, C415, C422, R414, R434, R435, R441, T402 (FBT), T901, RV402, DY (Deflection Yoke).....D board	RV402
IC101, IC301, D303, R327, R388.....DA (DC-1) board	

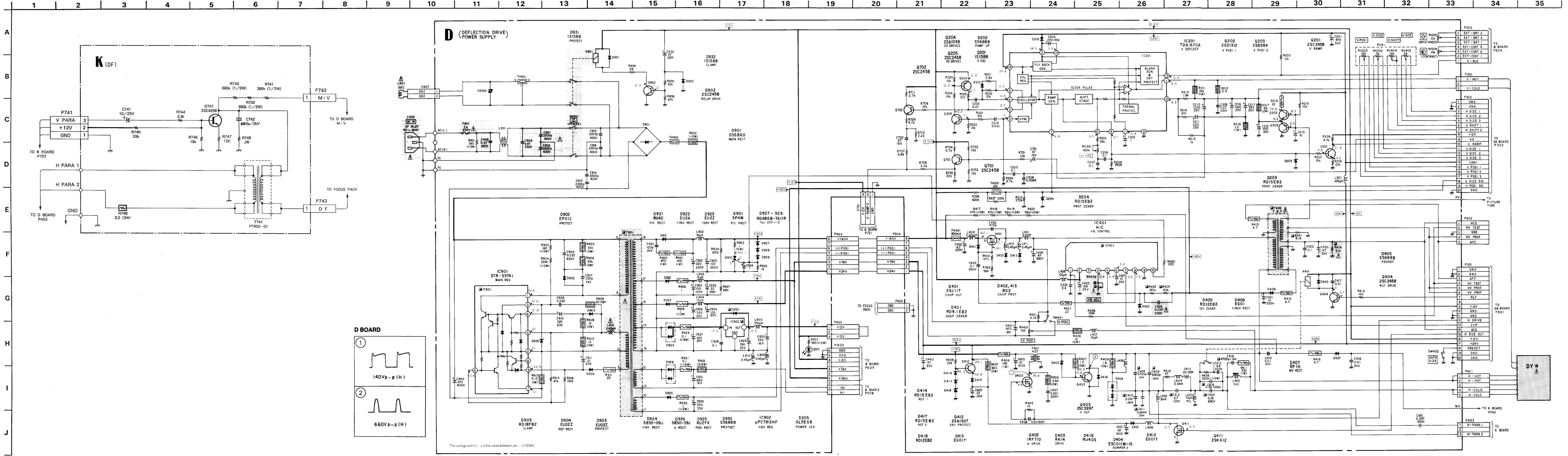
Frame Schematic Diagram

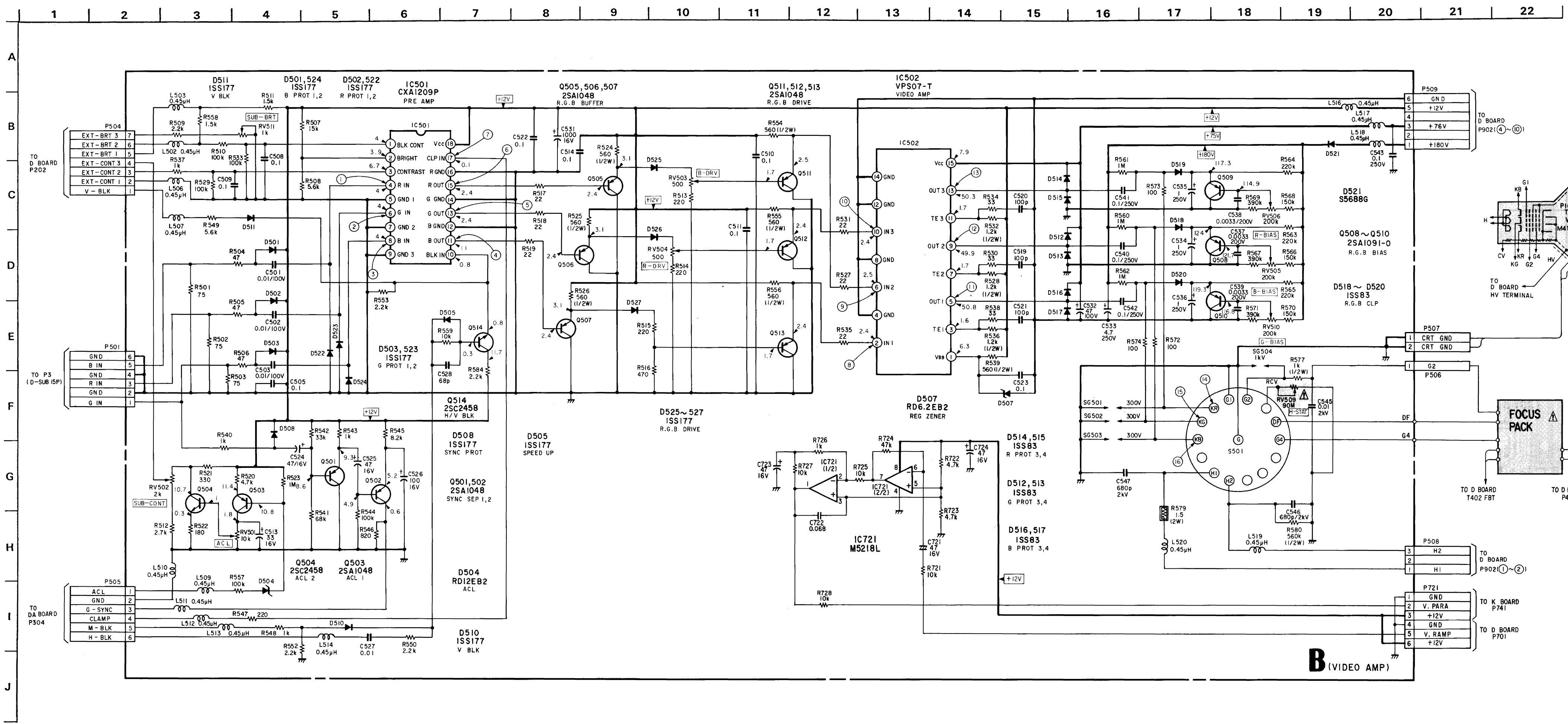




DA(DC-1) BOARD

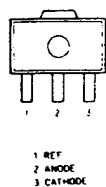




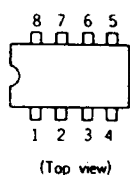


6-3. SEMICONDUCTORS

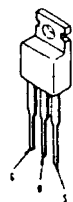
AN1431M



TEA2031A
M5218L



IRF710



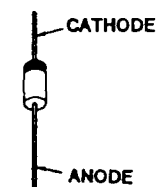
2SA1507



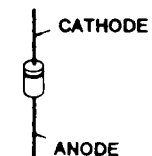
2SJ117



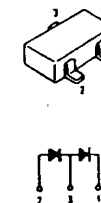
EG01Y
EP01C
RP1H



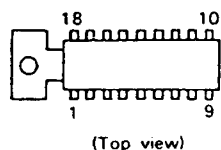
RG2
RK14



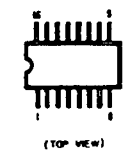
1SS226



CXA1209P



μ PA2004GR



UN2211
2SA812
2SC1462
2SC1623



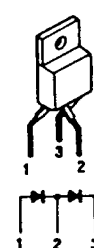
2SB984-K
2SD1312-K
2SD1312-L



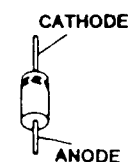
2SK612



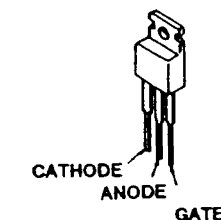
ESC011M-15



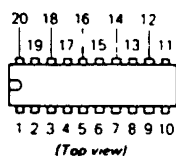
RU-4DS



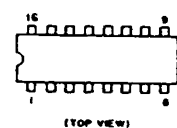
5P-4M



LA7850
LA7856



μ PA81C
74HC123
74HC139



2SA1091-O



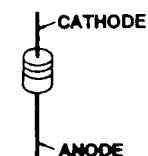
2SC2458



D5SB60



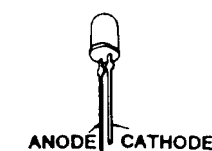
RD11ESB1
RD12ESB2
RD15ESB2
RD27ESB2
RD5.6ESB2
RD6.2ESB2
RD9.1ESB2
1SS177



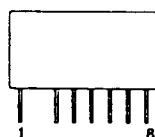
SB50-09J



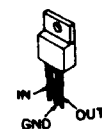
GL5EG8



PR-1



μ PC7812HF



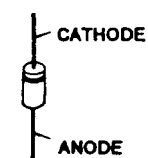
2SA1175-HFE
2SC2785-HFE



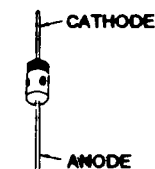
2SC3897



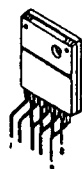
EG01
EU2A
EU2YX
EU2Z
RD11EB1
RD12EB2
RD15EB2
RD18FB2
RD27EB2
RD27FB2
RD5.6EB2
RD6.2EB2
RD6.8EB-TA11R
RD9.1EB2
1SS83
1S1588



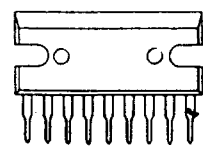
S5688B
S5688G



STR-S5741



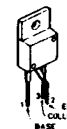
VPS07-T



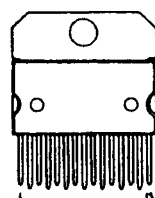
2SA1206-14



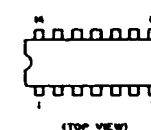
2SC4256



TDA1670A



74HC00



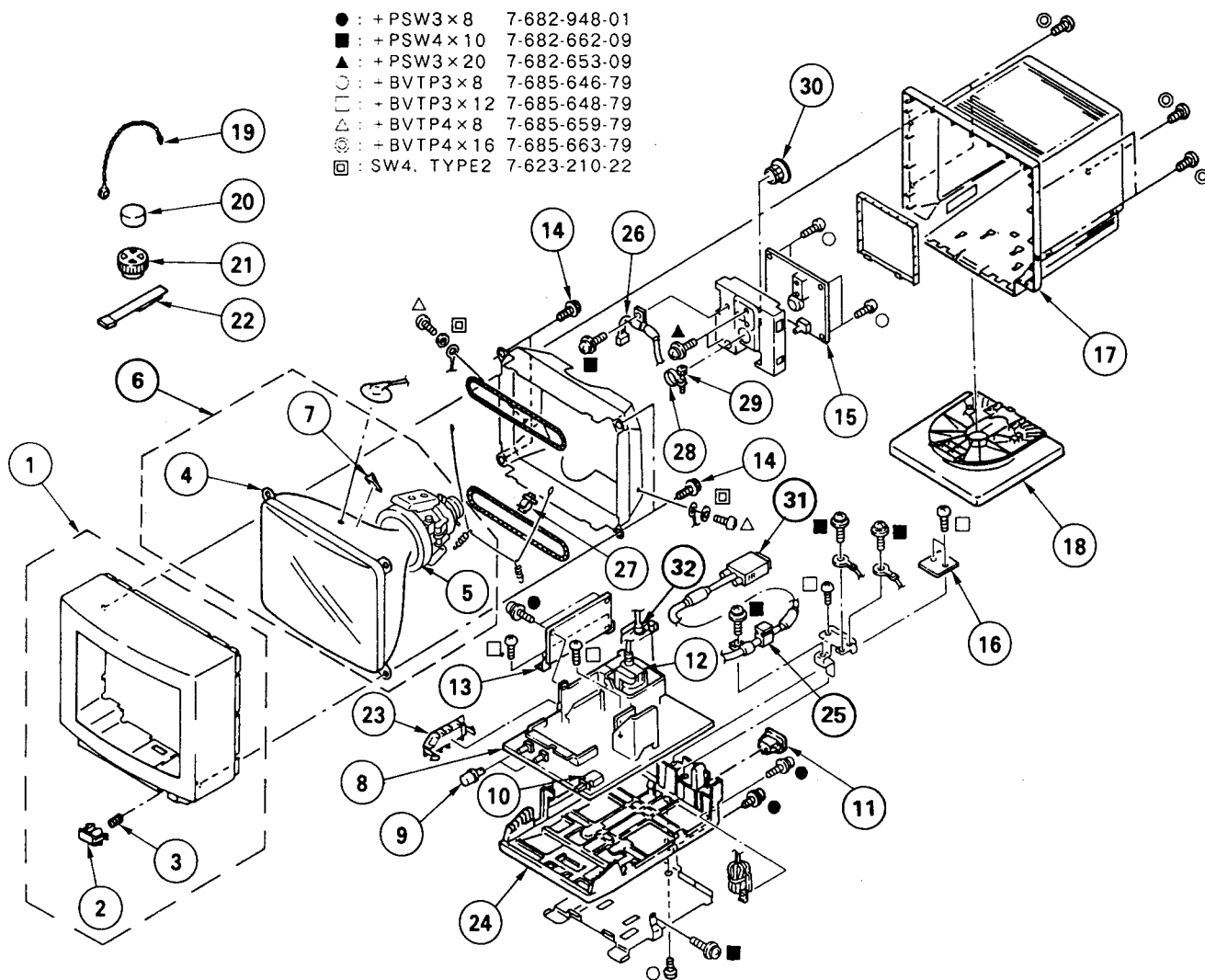
SECTION 7 EXPLODED VIEWS

NOTE:

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

The components identified by shading and mark 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.



- : +PSW3×8 7-682-948-01
- : +PSW4×10 7-682-662-09
- ▲ : +PSW3×20 7-682-653-09
- : +BVTP3×8 7-685-646-79
- : +BVTP3×12 7-685-648-79
- △ : +BVTP4×8 7-685-659-79
- ⊗ : +BVTP4×16 7-685-663-79
- ⊠ : SW4. TYPE2 7-623-210-22

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
1	X-4029-957-1	BRZEL ASSY	2, 3	16	*A-1380-375-A	K BOARD, COMPLETE	
2	4-392-708-01	BUTTON, POWER		17	4-033-290-01	CABINET	
3	3-509-046-01	SPRING, COMPRESSION		18	X-4029-956-1	STAND ASSY	
4	Δ 8-738-577-05	PICTURE TUBE 17PQ6		19	4-308-870-00	CLIP, LEAD WIRE	
5	Δ 1-451-408-11	DEFLECTION YOKE (TCD-12501)		20	1-452-032-00	MAGNET, DISK ;10MM ϕ	
6	Δ 738-577-81	ITC	4, 5, 7	21	1-452-094-00	MAGNET, ROTATABLE DISK ;15MM ϕ	
7	3-703-003-00	SPACER, DY		22	X-4309-608-0	PERMALLOY ASSY, CONVERGENCE	
8	*A-1346-006-A	D BOARD, COMPLETE		23	4-033-288-01	SPACER	
9	4-392-705-01	KNOB, VR		24	4-033-292-01	BRACKET	
10	Δ 1-571-433-11	SWITCH, PUSH (AC POWER)		25	4-033-624-01	CONTACT, CABLE	
11	Δ 1-526-954-11	INLET AC		26	4-033-624-11	CONTACT, CABLE	
12	Δ 1-453-129-11	TRANSFORMER ASSY. FLYBACK		27	*4-395-824-01	HOLDER, DEGAUSSING COIL	
13	*A-1346-069-A	DA BOARD, COMPLETE		28	X-4029-951-1	BAND ASSY, FASTENING	
14	4-307-249-00	SCREW (5), TAPPING		29	*2-101-802-01	SCREW, FASTENING, SEPARATOR	
15	*A-1335-029-A	B BOARD, COMPLETE		30	4-033-634-01	HOLDER, PWB	
				31	1-941-843-17	CABLE	
				32	Δ 1-223-208-11	FOCUS PACK	

SECTION 8
ELECTRICAL PARTS LIST

B

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

COILS

• MF : μF, PF : μμF • 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.

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

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
*A-1335-029-A	B BOARD, COMPLETE	*****		D505	8-719-820-58	DIODE ISS177	
<CAPACITOR>				D507	8-719-109-93	DIODE RD6.2ES-B2	
C501	1-102-129-91	MYLAR 0.01MF	10% 50V	D508	8-719-820-58	DIODE ISS177	
C502	1-102-129-91	MYLAR 0.01MF	10% 50V	D510	8-719-820-58	DIODE ISS177	
C503	1-102-129-91	MYLAR 0.01MF	10% 50V	D511	8-719-820-58	DIODE ISS177	
C505	1-162-901-91	CERAMIC 0.1MF	10% 50V	D512	8-719-901-83	DIODE ISS83	
C508	1-162-901-91	CERAMIC 0.1MF	10% 50V	D513	8-719-901-83	DIODE ISS83	
C509	1-162-901-91	CERAMIC 0.1MF	10% 50V	D514	8-719-901-83	DIODE ISS83	
C510	1-162-901-91	CERAMIC 0.1MF	10% 50V	D515	8-719-901-83	DIODE ISS83	
C511	1-162-901-91	CERAMIC 0.1MF	10% 50V	D516	8-719-901-83	DIODE ISS83	
C513	1-124-034-51	ELECT 33MF	20% 16V	D517	8-719-901-83	DIODE ISS83	
C514	1-162-901-91	CERAMIC 0.1MF	10% 50V	D518	8-719-901-83	DIODE ISS83	
C519	1-102-973-00	CERAMIC 100PF	5% 50V	D519	8-719-901-83	DIODE ISS83	
C520	1-102-973-00	CERAMIC 100PF	5% 50V	D520	8-719-901-83	DIODE ISS83	
C521	1-102-973-00	CERAMIC 100PF	5% 50V	D521	8-719-820-57	DIODE S5688G	
C522	1-161-772-11	CERAMIC 0.1MF	10% 25V	D522	8-719-820-58	DIODE ISS177	
C523	1-161-772-11	CERAMIC 0.1MF	10% 25V	D523	8-719-820-58	DIODE ISS177	
C524	1-124-477-11	ELECT 47MF	20% 16V	D524	8-719-820-58	DIODE ISS177	
C525	1-124-477-11	ELECT 47MF	20% 16V	D525	8-719-820-58	DIODE ISS177	
C526	1-126-101-11	ELECT 100MF	20% 16V	D526	8-719-820-58	DIODE ISS177	
C527	1-130-483-00	MYLAR 0.01MF	5% 50V	D527	8-719-820-58	DIODE ISS177	
C528	1-102-525-11	CERAMIC 68PF	5% 50V	<IC>			
C531	1-124-119-00	ELECT 330MF	20% 16V	IC501	8-752-052-83	IC CXA1209P	
C532	1-124-931-11	ELECT 47MF	20% 100V	IC502	8-749-922-81	IC VPS07T	
C533	1-124-666-11	ELECT 4.7MF	20% 250V	IC721	8-759-634-50	IC M5218AL	
C534	1-126-772-11	ELECT 1MF	20% 250V	<COIL>			
C535	1-126-772-11	ELECT 1MF	20% 250V	L503	1-410-396-41	INDUCTOR 0.45UH	
C536	1-126-772-11	ELECT 1MF	20% 250V	L506	1-410-396-41	INDUCTOR 0.45UH	
C537	1-108-686-11	MYLAR 0.0033MF	10% 200V	L516	1-410-396-41	INDUCTOR 0.45UH	
C538	1-108-686-11	MYLAR 0.0033MF	10% 200V	L517	1-410-396-41	INDUCTOR 0.45UH	
C539	1-108-686-11	MYLAR 0.0033MF	10% 200V	L519	1-410-396-41	INDUCTOR 0.45UH	
C540	1-136-209-11	FILM 0.1MF	10% 250V	L520	1-410-396-41	INDUCTOR 0.45UH	
C541	1-136-209-11	FILM 0.1MF	10% 250V	<CONNECTOR>			
C542	1-136-209-11	FILM 0.1MF	10% 250V	P501	*1-560-894-00	PIN, CONNECTOR 6P	
C543	1-136-209-11	FILM 0.1MF	10% 250V	P504	*1-560-895-00	PIN, CONNECTOR 7P	
C545	1-162-978-11	CERAMIC 0.01MF	2KV	P505	*1-564-031-00	PIN, CONNECTOR 6P	
C546	1-162-116-00	CERAMIC 680PF	10% 2KV	P508	*1-564-028-00	PIN, CONNECTOR 4P	
C547	1-162-116-00	CERAMIC 680PF	10% 2KV	P509	*1-564-031-00	PIN, CONNECTOR 6P	
C721	1-104-498-11	ELECT 47MF	20% 16V	P721	*1-564-031-00	PIN, CONNECTOR 6P	
C722	1-161-772-11	CERAMIC 0.1MF	20% 25V	<TRANSISTOR>			
C723	1-124-477-11	ELECT 47MF	20% 16V	Q501	8-729-119-76	TRANSISTOR 2SA1175-HFE	
C724	1-124-477-11	ELECT 47MF	20% 16V	Q502	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D501	8-719-820-58	DIODE ISS177		Q503	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D502	8-719-820-58	DIODE ISS177					
D503	8-719-820-58	DIODE ISS177					
D504	8-719-110-31	DIODE RD12ES-B2					

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

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

B **D**

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q504	8-729-119-78	TRANSISTOR 2SC2785-HFE		R552	1-249-421-11	CARBON 2.2K 5%	1/4W
Q505	8-729-119-76	TRANSISTOR 2SA1175-HFE		R553	1-249-421-11	CARBON 2.2K 5%	1/4W
Q506	8-729-119-76	TRANSISTOR 2SA1175-HFE		R554	1-247-749-11	CARBON 560 5%	1/2W
Q507	8-729-119-76	TRANSISTOR 2SA1175-HFE		R555	1-247-749-11	CARBON 560 5%	1/2W
Q508	8-729-200-17	TRANSISTOR 2SA1091-0		R556	1-247-749-11	CARBON 560 5%	1/2W
Q509	8-729-200-17	TRANSISTOR 2SA1091-0		R557	1-249-441-11	CARBON 100K 5%	1/4W
Q510	8-729-200-17	TRANSISTOR 2SA1091-0		R558	1-249-419-11	CARBON 1.5K 5%	1/4W
Q511	8-729-119-76	TRANSISTOR 2SA1175-HFE		R559	1-249-429-11	CARBON 10K 5%	1/4W
Q512	8-729-119-76	TRANSISTOR 2SA1175-HFE		R560	1-214-964-00	RES, HIGH MEG OHM 1M	
Q513	8-729-119-76	TRANSISTOR 2SA1175-HFE		R561	1-214-964-00	RES, HIGH MEG OHM 1M	
Q514	8-729-119-78	TRANSISTOR 2SC2785-HFE		R562	1-214-964-00	RES, HIGH MEG OHM 1M	
<RESISTOR>				R563	1-247-887-00	CARBON 220K 5%	1/4W
R501	1-214-702-00	METAL 75 1%	1/4W	R564	1-247-887-00	CARBON 220K 5%	1/4W
R502	1-214-702-00	METAL 75 1%	1/4W	R565	1-247-887-00	CARBON 220K 5%	1/4W
R503	1-214-702-00	METAL 75 1%	1/4W	R566	1-247-883-00	CARBON 150K 5%	1/4W
R504	1-249-401-11	CARBON 47 5%	1/4W	R567	1-247-893-00	CARBON 390K 5%	1/4W
R505	1-249-401-11	CARBON 47 5%	1/4W	R568	1-247-883-00	CARBON 150K 5%	1/4W
R506	1-249-401-11	CARBON 47 5%	1/4W	R569	1-247-893-00	CARBON 390K 5%	1/4W
R507	1-249-431-11	CARBON 15K 5%	1/4W	R570	1-247-883-00	CARBON 150K 5%	1/4W
R508	1-249-246-11	CARBON 5.6K 5%	1/4W	R571	1-247-893-00	CARBON 390K 5%	1/4W
R509	1-249-421-11	CARBON 2.2K 5%	1/4W	R572	1-247-700-11	SOLID 100 5%	1/4W
R510	1-249-441-11	CARBON 100K 5%	1/4W	R573	1-247-700-11	SOLID 100 5%	1/4W
R511	1-249-419-11	CARBON 1.5K 5%	1/4W	R574	1-247-700-11	SOLID 100 5%	1/4W
R512	1-249-422-11	CARBON 2.7K 5%	1/4W	R575	1-247-713-11	SOLID 1K 10%	1/4W
R513	1-249-409-11	CARBON 220 5%	1/4W	R579	1-216-370-00	METAL OXIDE 1.5 5%	2W
R514	1-249-409-11	CARBON 220 5%	1/4W	R580	1-202-847-00	SOLID 560K 10%	1/2W
R515	1-249-409-11	CARBON 220 5%	1/4W	R584	1-249-421-11	CARBON 2.2K 5%	1/4W
R516	1-249-413-11	CARBON 470 5%	1/4W	R721	1-249-429-11	CARBON (SMALL) 10K 5%	1/4W
R517	1-249-397-11	CARBON 22 5%	1/4W	R722	1-249-425-11	CARBON (SMALL) 4.7K 5%	1/4W
R518	1-249-397-11	CARBON 22 5%	1/4W	R723	1-249-425-11	CARBON (SMALL) 4.7K 5%	1/4W
R519	1-249-397-11	CARBON 22 5%	1/4W	R724	1-249-437-11	CARBON 47K 5%	1/4W
R520	1-249-452-11	CARBON 4.7K 5%	1/4W	R725	1-249-429-11	CARBON (SMALL) 10K 5%	1/4W
R521	1-247-706-11	CARBON 330 5%	1/4W	R726	1-249-417-11	CARBON (SMALL) 1K 5%	1/4W
R522	1-249-408-11	CARBON 180 5%	1/4W	R727	1-249-429-11	CARBON (SMALL) 10K 5%	1/4W
R523	1-247-903-00	CARBON 1M 5%	1/4W	<VARIABLE RESISTOR>			
R524	1-247-749-11	CARBON 560 5%	1/2W	RV501	1-228-994-00	RES, ADJ, METAL GLAZE 10K	
R525	1-247-749-11	CARBON 560 5%	1/2W	RV502	1-228-991-00	RES, ADJ, METAL GLAZE 2.2K	
R526	1-247-749-11	CARBON 560 5%	1/2W	RV503	1-237-499-21	RES, ADJ, CERMET 500	
R527	1-249-397-11	CARBON 22 5%	1/4W	RV504	1-237-499-21	RES, ADJ, CERMET 500	
R528	1-260-100-11	CARBON 1.2K 5%	1/2W	RV505	1-237-507-21	RES, ADJ, CERMET 200K	
R529	1-249-441-11	CARBON 100K 5%	1/4W	RV506	1-238-707-11	RES, ADJ, CERMET 200K	
R530	1-249-399-11	CARBON 33 5%	1/4W	RV509 Δ 1-230-798-21	RES, ADJ, METAL GLAZE 90M		
R531	1-249-397-11	CARBON 22 5%	1/4W	RV510	1-237-507-21	RES, ADJ, CERMET 200K	
R532	1-260-100-11	CARBON 1.2K 5%	1/2W	<SOCKET>			
R533	1-249-441-11	CARBON 100K 5%	1/4W	S501	1-526-866-11	SOCKET, PICTURE TUBE	
R534	1-249-399-11	CARBON 33 5%	1/4W	<SPARK GAP>			
R535	1-249-397-11	CARBON 22 5%	1/4W	SG501	1-519-421-11	GAP, DISCHARGE	
R536	1-260-100-11	CARBON 1.2K 5%	1/2W	SG502	1-519-421-11	GAP, DISCHARGE	
R537	1-249-417-11	CARBON 1K 5%	1/4W	SG503	1-519-421-11	GAP, DISCHARGE	
R538	1-249-399-11	CARBON 33 5%	1/4W	SG504	1-519-030-00	DISCHARGE ELEMENT	
R539	1-247-749-11	CARBON 560 5%	1/2W	*****			
R540	1-249-417-11	CARBON 1K 5%	1/4W	*A-1346-006-A	D BOARD, COMPLETE ***** (DA BOARD INCLUDING)		
R541	1-249-439-11	CARBON 68K 5%	1/4W	Δ 1-526-954-11	INLET, AC ; Z902		
R542	1-249-435-11	CARBON 33K 5%	1/4W	*4-030-202-01	HOLDER (TR)		
R543	1-249-417-11	CARBON 1K 5%	1/4W				
R544	1-249-441-11	CARBON 100K 5%	1/4W				
R545	1-249-428-11	CARBON 8.2K 5%	1/4W				
R546	1-249-416-11	CARBON 820 5%	1/4W				
R547	1-249-409-11	CARBON 220 5%	1/4W				
R548	1-249-417-11	CARBON 1K 5%	1/4W				
R549	1-249-421-11	CARBON 5.6K 5%	1/4W				
R550	1-249-421-11	CARBON 2.2K 5%	1/4W				

D

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

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK	
*4-030-211-01		HOLDER (TR)		C910	1-124-919-11	ELECT 220MF	20% 63V	
*4-030-212-01		HOLDER (TR)		C911	1-124-915-11	ELECT 10MF	20% 63V	
4-314-225-00		HEAT SINK, (A) (FN401)		C913	1-161-742-00	CERAMIC 0.0022MF	20% 400V	
*4-380-083-01		HOLDER (E), LED ; Z021		C914	1-161-742-00	CERAMIC 0.0022MF	20% 400V	
4-392-771-01		CAP, SEAL		C915	1-161-742-00	CERAMIC 0.0022MF	20% 400V	
<CAPACITOR>				C916	1-161-742-00	CERAMIC 0.0022MF	20% 400V	
C201	1-126-104-11	ELECT	470MF 20%	35V	C921	1-162-558-11	CERAMIC 100PF 10%	
C202	1-136-169-00	FILM	0.22MF 5%	50V	C922	1-104-500-11	ELECT 220MF	
C203	1-108-816-11	MYLAR	0.1MF 5%	50V	C923	1-104-499-11	ELECT 100MF	
C204	1-124-484-11	ELECT	220MF 20%	35V	C924	1-124-903-11	MYLAR 1MF 5%	
C205	1-124-903-11	ELECT	1MF 20%	50V	C925	1-123-605-00	ELECT 100MF 20%	
C206	1-136-165-00	FILM	0.1MF 5%	50V	C926	1-124-485-11	ELECT 330MF 20%	
C207	1-136-165-00	FILM	0.1MF 5%	50V	C927	1-126-376-11	ELECT 470MF 20%	
C208	1-108-802-11	MYLAR	0.0068MF 5%	50V	C928	1-161-772-11	CERAMIC 0.1MF	
C209	1-130-781-00	FILM	0.22MF 10%	100V	C929	1-124-479-11	ELECT 330MF 20%	
C210	1-124-557-11	ELECT	1000MF 20%	25V	C930	1-124-485-11	ELECT 330MF 20%	
C211	1-124-120-11	ELECT	220MF 20%	25V	C931	1-126-220-51	ELECT 680MF 20%	
C212	1-126-104-11	ELECT	470MF 20%	35V	C932	1-124-477-11	ELECT 47MF 20%	
C213	1-124-907-11	ELECT	10MF 20%	50V	C933	1-124-929-11	ELECT 22MF 20%	
C214	1-108-792-11	MYLAR	0.001MF 5%	50V	C934	1-124-122-11	ELECT 100MF 20%	
C216	1-124-557-11	ELECT	1000MF 20%	25V	C935	1-124-119-00	ELECT 330MF 20%	
C217	1-124-479-11	ELECT	330MF 20%	25V	<DIODE>			
C401	1-126-103-11	ELECT	470MF 20%	16V	D201	8-719-820-59	DIODE 1S1588	
C402	1-124-666-11	ELECT	4.7MF 20%	200V	D202	8-719-820-56	DIODE S5688B	
C403	1-136-209-11	FILM	0.1MF 10%	250V	D203	8-719-110-41	DIODE RD15ES-B2	
C404	1-126-527-11	ELECT	47MF 20%	200V	D204	8-719-110-41	DIODE RD15ES-B2	
C405	1-124-667-11	ELECT	10MF 20%	100V	D205	8-719-941-64	DIODE GL56G8	
C406	1-108-626-11	MYLAR	0.01MF 10%	100V	D401	8-719-110-13	DIODE RD9.1ES-B2	
C407	1-106-345-00	MYLAR	0.001MF 10%	200V	D402	8-719-301-86	DIODE RG2	
C408	1-136-071-00	FILM	0.0057MF 3%	2KV	D403	8-719-981-00	DIODE ERC81-004	
C409	1-136-220-00	FILM	0.0039MF 3%	2KV	D404	8-719-991-68	DIODE ESC011M-15	
C410	1-136-079-00	FILM	0.01MF 3%	2KV	D405	8-719-820-56	DIODE S5688B	
C411	1-136-069-00	FILM	0.0044MF 3%	2KV	D406	8-719-312-26	DIODE EG01	
C413	1-124-667-11	ELECT	10MF 20%	100V	D407	8-719-312-11	DIODE RP1H	
C414	1-136-540-11	FILM	0.82MF 5%	200V	D412	8-719-311-16	DIODE EG01Y	
C416	1-162-114-11	CERAMIC	0.0047MF 10%	2KV	D413	8-719-301-86	DIODE RG2	
C417	1-130-483-00	MYLAR	0.01MF 5%	50V	D414	8-719-110-41	DIODE RD15EB2TN	
C418	1-162-978-11	CERAMIC	0.01MF	2KV	D415	8-719-311-16	DIODE EG01Y	
C419	1-162-978-11	CERAMIC	0.01MF	2KV	D416	8-719-301-64	DIODE RU4DS	
C420	1-108-816-11	MYLAR	0.1MF 5%	50V	D417	8-719-110-41	DIODE RD15ES-B2	
C421	1-126-326-51	ELECT	10MF 20%	250V	D418	8-719-110-31	DIODE RD12EB2TN	
C422	1-129-955-00	ELECT	0.15MF	630V	D420	8-719-110-31	DIODE RD12EB2TN	
C424	1-129-925-11	ELECT	2.2MF	50V	D901	8-719-500-16	DIODE D5SB60	
C425	1-124-478-11	ELECT	100MF 20%	25V	D902	8-719-312-24	DIODE EPO1C	
C427	1-124-907-11	ELECT	10MF 20%	50V	D903	8-719-302-21	DIODE EU2Z	
C429	1-124-929-11	ELECT	22MF 20%	100V	D904	8-719-302-21	DIODE EU2Z	
C430	1-124-927-11	ELECT	4.7MF 20%	50V	D905	8-719-160-68	DIODE RD18FB2	
C431	1-124-929-11	ELECT	22MF 20%	100V	D921	8-719-301-64	DIODE RU4DS	
C440	1-124-910-11	ELECT	47MF 20%	35V	D922	8-719-302-06	DIODE EU2A	
C451	1-136-060-00	ELECT	0.047MF	400V	D923	8-719-302-21	DIODE EU2Z	
C701	1-124-477-11	ELECT	47MF	16V	D924	8-719-023-68	DIODE 5DL2CZ41A	
C702	1-104-498-11	ELECT	47MF	16V	D925	8-719-312-27	DIODE EU2YX	
C901	Δ 1-161-742-51	CERAMIC	0.0022MF 20%	400V	D926	8-719-023-68	DIODE 5DL2CZ41A	
C902	Δ 1-161-742-51	CERAMIC	0.0022MF 20%	400V	D927	8-719-023-66	DIODE RD68EB	
C903	Δ 1-136-527-12	FILM	0.47MF 20%	250V	D928	8-719-023-66	DIODE RD68EB	
C904	Δ 1-136-527-12	FILM	0.47MF 20%	250V	D929	8-719-023-66	DIODE RD68EB	
C905	1-125-541-11	ELECT (BLOCK)	470MF 20%	400V	D930	8-719-820-56	DIODE S5688B	
C906	1-136-206-11	FILM	0.033MF 10%	600V	D931	8-719-820-59	DIODE 1S1588	
C907	1-162-131-11	CERAMIC	220PF 10%	2KV	D932	8-719-820-59	DIODE 1S1588	
C909	1-108-808-11	MYLAR	0.022MF 10%	50V				

<FUSE>

• 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.

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.

D DA(DC-1)

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R441	1-214-752-00	CARBON	9.1K 5% 1/4W				
R701	1-247-725-11	CARBON	10K 5% 1/4W				F
R702	1-249-460-11	CARBON	15K 5% 1/4W				F
R703	1-249-460-11	CARBON	15K 5% 1/4W				F
R704	1-247-721-11	CARBON	4.7K 5% 1/4W				F
R705	1-249-462-11	CARBON	22K 5% 1/4W				F
R706	1-247-719-11	CARBON	3.3K 5% 1/4W				F
R707	1-247-723-11	CARBON	6.8K 5% 1/4W				F
R708	1-247-725-11	CARBON	10K 5% 1/4W				F
R709	1-247-721-11	CARBON	4.7K 5% 1/4W				F
R710	1-247-718-11	CARBON	2.7K 5% 1/4W				F
R711	1-247-718-11	CARBON	2.7K 5% 1/4W				F
R901	1-214-931-00	METAL GLAZE	560K 5% 1/2W				
R902	1-205-779-11	WIREWOUND	1 5% 10W				F
R903	1-214-919-00	METAL GLAZE	180K 5% 1/2W				
R904	1-214-921-55	METAL	220K 5% 1/2W				
R905	1-215-926-00	METAL OXIDE	33K 5% 3W				F
R906	1-215-926-00	METAL OXIDE	33K 5% 3W				F
R908	1-215-907-11	METAL OXIDE	22 5% 3W				F
R909	1-216-469-11	METAL OXIDE	12 5% 3W				F
R910	1-215-906-11	METAL OXIDE	15 5% 3W				F
R911	1-212-865-00	FUSIBLE	22 5% 1/4W				F
R913	1-205-956-11	WIREWOUND	0.15 10% 3W				
R915	1-214-769-00	METAL	47K 1% 1/4W				
R916	1-214-777-00	METAL	100K 1% 1/4W				
R920	1-217-501-00	FUSIBLE	470 5% 1W				F
R921	1-217-501-00	FUSIBLE	470 5% 1W				F
R922	1-205-616-00	WIREWOUND	1 5% 5W				F
R923	1-247-713-11	CARBON	1K 5% 1/4W				
R924	1-214-785-55	METAL	220K 5% 1/4W				
R926	1-216-349-00	METAL OXIDE	1 5% 1W				F
R927	1-249-467-11	CARBON	68K 5% 1/4W				
R928	1-212-934-00	FUSIBLE	1 5% 1/2W				F
R929	1-207-451-00	WIRE	0.1 5% 1/6W				
R930	1-212-934-00	FUSIBLE	1.2 5% 2W				
R931	1-207-451-00	WIRE	0.1 5% 1/6W				
R932	1-216-370-11	METAL OXIDE	1 5% 1W				F
R934	1-247-698-11	CARBON	68 5% 1/4W				
R935	1-247-726-11	CARBON	33K 5% 1/4W				
R936	1-249-465-11	CARBON	47K 5% 1/4W				
<VARIABLE RESISTOR>							
RV201	1-228-997-00	RES. ADJ. CERMET	100K				
RV204	1-238-723-11	RES. VAR. CARBON	10K				
RV205	1-238-722-11	RES. VAR. CARBON	10K				
RV401	1-238-688-11	RES. VAR. WIREWOUND	100				
RV402	1-238-688-11	RES. ADJ. CERMET					
<VOLUME>							
RVB1	1-238-721-11	VOLUME (4 GANG)	5K/10K/5K/10K				
<SWITCH>							
SW401	1-571-427-11	SWITCH, SLIDE					
SW402	1-572-022-11	SWITCH, SLIDE					
SW901	1-571-433-11	SWITCH, PUSH (AC POWER)					
<TRANSFORMER>							
T401	1-423-344-11	TRANSFORMER, HORIZONTAL DRIVE (HDT)					
T402	1-453-129-11	TRANSFORMER ASS'Y, FLYBACK					
T901	1-423-346-11	TRANSFORMER, CONVERTER					
<THERMISTOR>							
TH201	1-807-796-11	THERMISTOR					
TH901	1-808-059-31	THERMISTOR, POSITIVE					
TH903	1-808-760-11	THERMISTOR					
<VARISTOR>							
VA901	1-809-201-21	VARISTOR AVR-G20D680KAAP					

	*A-1346-069-A	DA BOARD, COMPLETE					

<CAPACITOR>							
C101	1-126-399-11	ELECT CHIP	10MF 20% 35V				
C102	1-124-767-00	ELECT	2.2MF 20% 50V				
C103	1-126-399-11	ELECT CHIP	10MF 20% 35V				
C104	1-124-767-00	ELECT	2.2MF 20% 50V				
C105	1-126-101-11	ELECT	100MF 20% 16V				
C106	1-126-101-11	ELECT	100MF 20% 16V				
C108	1-126-399-11	ELECT CHIP	10MF 20% 35V				
C109	1-126-101-11	ELECT	100MF 20% 16V				
C110	1-126-399-11	ELECT CHIP	10MF 20% 35V				
C111	1-126-398-11	ELECT CHIP	4.7MF 20% 35V				
C112	1-126-398-11	ELECT CHIP	4.7MF 20% 35V				
C113	1-126-399-11	ELECT CHIP	10MF 20% 35V				
C114	1-163-193-00	CERAMIC CHIP	330PF 5% 50V				
C251	1-163-038-00	CERAMIC CHIP	0.1MF 25V				
C252	1-163-038-00	CERAMIC CHIP	0.1MF 25V				
C253	1-126-101-11	ELECT	100MF 20% 16V				
C301	1-163-038-00	CERAMIC CHIP	0.1MF 25V				
C302	1-163-077-00	CERAMIC CHIP	0.1MF 50V				
C303	1-163-251-11	CERAMIC CHIP	100PF 5% 50V				
C304	1-163-038-00	CERAMIC CHIP	0.1MF 25V				
C305	1-163-205-00	CERAMIC CHIP	0.001MF 5% 50V				
C306	1-163-205-00	CERAMIC CHIP	0.001MF 5% 50V				
C307	1-163-205-00	CERAMIC CHIP	0.001MF 5% 50V				
C308	1-163-209-00	CERAMIC CHIP	0.0015MF 5% 50V				
C309	1-126-399-11	ELECT CHIP	10MF 20% 35V				
C310	1-163-038-00	CERAMIC CHIP	0.1MF 25V				
C311	1-126-301-11	CERAMIC CHIP	1MF 20% 50V				
C312	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V				
C313	1-126-401-11	ELECT CHIP	1MF 20% 50V				
C314	1-163-205-00	CERAMIC CHIP	0.001MF 5% 50V				
C315	1-163-038-00	CERAMIC CHIP	0.1MF 25V				
C316	1-163-038-00	CERAMIC CHIP	0.1MF 25V				
C317	1-163-235-11	CERAMIC CHIP	22PF 5% 50V				
C318	1-126-396-11	ELECT CHIP	47MF 20% 16V				
C319	1-163-038-00	CERAMIC CHIP	0.1MF 25V				
C320	1-163-205-00	CERAMIC CHIP	0.001MF 5% 50V				
C321	1-163-251-11	CERAMIC CHIP	100PF 5% 50V				
C322	1-126-103-11	ELECT	470MF 20% 16V				
C326	1-163-209-00	CERAMIC CHIP	0.0015MF 5% 50V				
C327	1-164-222-11	CERAMIC CHIP	0.22MF 50V				
C328	1-123-875-11	ELECT CHIP	10MF 20% 35V				
C329	1-163-038-00	CERAMIC CHIP	0.1MF 25V				
C330	1-126-399-11	ELECT CHIP	10MF 20% 35V				
C331	1-126-398-11	ELECT CHIP	4.7MF 20% 35V				
C332	1-163-077-00	CERAMIC CHIP	0.1MF 50V				

DA(DC-1)

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C334	1-126-398-11	ELECT CHIP 4.7MF	20% 35V	IC250	8-759-064-06	IC UPA2004GR	
C336	1-126-399-11	ELECT CHIP 10MF	20% 35V	IC301	8-759-822-53	IC LA7850	
C337	1-163-033-00	CERAMIC CHIP 0.022MF	50V	IC302	8-759-064-06	IC UPA2004GR	
C338	1-124-277-11	ELECT CHIP 4.7MF	20% 50V	IC303	8-759-942-16	IC TBA2031A	
C340	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V	IC304	8-759-710-88	IC NJM431U	
C341	1-124-910-11	ELECT 47MF	20% 35V	IC601	8-759-032-01	IC MC74HC00AF	
C342	1-126-101-11	ELECT 100MF	20% 16V	IC602	8-759-239-23	IC TC74HC86AF	
C343	1-453-105-11	CR PACK, HIGH-VOLTAGE		IC603	8-759-032-01	IC MC74HC00AF	
C345	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	IC604	8-759-926-12	IC SN74HC139ANS	
C346	1-126-399-11	ELECT CHIP 10MF	20% 35V	IC605	8-759-239-55	IC TC74HC123F	
C347	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	IC606	8-759-032-01	IC MC74HC00AF	
C349	1-126-399-11	ELECT CHIP 10MF	20% 35V	<COIL>			
C350	1-163-193-00	CERAMIC CHIP 330PF	5% 50V	L101	1-408-080-00	INDUCTOR 100UH	
C601	1-163-077-00	CERAMIC CHIP 0.1MF	50V	L102	1-412-390-21	INDUCTOR	
C602	1-163-077-00	CERAMIC CHIP 0.1MF	50V	L103	1-412-390-21	INDUCTOR	
C603	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	L250	1-408-080-00	INDUCTOR 100UH	
C604	1-163-077-00	CERAMIC CHIP 0.1MF	50V	L301	1-408-080-00	INDUCTOR 100UH	
C605	1-163-077-00	CERAMIC CHIP 0.1MF	50V	L302	1-408-080-00	INDUCTOR 100UH	
C606	1-163-077-00	CERAMIC CHIP 0.1MF	50V	<CONNECTOR>			
C607	1-163-237-11	CERAMIC CHIP 27PF	5% 50V	P301	*1-563-226-11	CONNECTOR, INTERNATIONAL	
C608	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	P302	*1-563-226-11	CONNECTOR, INTERNATIONAL	
C609	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	P303	*1-560-892-00	PIN, CONNECTOR 4P	
C610	1-163-205-00	CERAMIC CHIP 0.001MF	5% 50V	P304	*1-560-894-00	PIN, CONNECTOR 6P	
C611	1-163-137-00	CERAMIC CHIP 680PF	5% 50V	TP301	*1-560-891-00	PIN, CONNECTOR 3P	
C612	1-126-301-11	CERAMIC CHIP 1MF	5% 50V	<TRANSISTOR>			
C613	1-163-077-00	CERAMIC CHIP 0.1MF	50V	Q101	8-729-216-22	TRANSISTOR 2SA1162-G	
C614	1-163-038-00	CERAMIC CHIP 0.1MF	25V	Q102	8-729-216-22	TRANSISTOR 2SA1162-G	
C622	1-163-038-00	CERAMIC CHIP 0.1MF	25V	Q253	8-729-120-28	TRANSISTOR 2SC1623-T2L6	
<DIODE>				Q254	8-729-216-22	TRANSISTOR 2SA1162-G	
D103	8-719-105-91	DIODE RD5.6M-B2		Q255	8-729-216-22	TRANSISTOR 2SA1162-G	
D104	8-719-105-91	DIODE RD5.6M-B2		Q301	8-729-120-28	TRANSISTOR 2SC1623-T2L6	
D253	8-719-820-05	DIODE 1SS181		Q302	8-729-120-28	TRANSISTOR 2SC1623-T2L6	
D254	8-719-801-48	DIODE 1SS193		Q303	8-729-216-22	TRANSISTOR 2SA1162-G	
D255	8-719-801-78	DIODE 1SS184		Q304	8-729-216-22	TRANSISTOR 2SA1162-G	
D257	8-719-820-05	DIODE 1SS181		Q305	8-729-120-28	TRANSISTOR 2SC1623-T2L6	
D259	8-719-801-48	DIODE 1SS193		Q306	8-729-120-28	TRANSISTOR 2SC1623-T2L6	
D301	8-719-801-48	DIODE 1SS193		Q307	8-729-216-22	TRANSISTOR 2SA1162-G	
D302	8-719-801-48	DIODE 1SS193		Q308	8-729-120-28	TRANSISTOR 2SC1623-T2L6	
D303	8-719-106-44	DIODE RD9.1M-B2		Q309	8-729-216-22	TRANSISTOR 2SA1162-G	
D304	8-719-820-05	DIODE 1SS181		Q310	8-729-120-28	TRANSISTOR 2SC1623-T2L6	
D306	8-719-801-48	DIODE 1SS193		Q311	8-729-120-28	TRANSISTOR 2SC1623-T2L6	
D308	8-719-801-48	DIODE 1SS193		Q312	8-729-120-28	TRANSISTOR 2SC1623-T2L6	
D309	8-719-801-48	DIODE 1SS193		Q313	8-729-120-28	TRANSISTOR 2SC1623-T2L6	
D310	8-719-801-48	DIODE 1SS193		Q314	8-729-120-28	TRANSISTOR 2SC1623-T2L6	
D311	8-719-107-15	DIODE RD18M-B2		Q315	8-729-120-28	TRANSISTOR 2SC1623-T2L6	
D312	8-719-801-48	DIODE 1SS193		Q316	8-729-120-28	TRANSISTOR 2SC1623-T2L6	
D601	8-719-820-05	DIODE 1SS181		Q317	8-729-120-28	TRANSISTOR 2SC1623-T2L6	
D602	8-719-801-48	DIODE 1SS193		Q318	8-729-120-28	TRANSISTOR 2SC1623-T2L6	
D603	8-719-800-76	DIODE 1SS226		Q319	8-729-120-28	TRANSISTOR 2SC1623-T2L6	
D604	8-719-105-82	DIODE RD5.1ES-B2		Q320	8-729-120-28	TRANSISTOR 2SC1623-T2L6	
D605	8-719-800-76	DIODE 1SS226		Q321	8-729-216-22	TRANSISTOR 2SA1162-G	
D606	8-719-800-76	DIODE 1SS226		Q601	8-729-112-65	TRANSISTOR 2SA1462-Y33	
D607	8-719-801-78	DIODE 1SS184		Q602	8-729-112-65	TRANSISTOR 2SA1462-Y33	
D608	8-719-801-48	DIODE 1SS193		Q603	8-729-216-22	TRANSISTOR 2SA1162-G	
D609	8-719-820-05	DIODE 1SS181		Q604	8-729-216-22	TRANSISTOR 2SA1162-G	
D610	8-719-801-48	DIODE 1SS193		Q605	8-729-120-28	TRANSISTOR 2SC1623-T2L6	
D611	8-719-801-48	DIODE 1SS193		Q606	8-729-421-22	TRANSISTOR UN2211-TX	
D612	8-719-026-17	DIODE RD5.1PB		Q607	8-729-216-22	TRANSISTOR 2SA1162-G	
<IC>							
IC101	8-749-923-30	IC PR-1					

DA(DC-1)

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q608	8-729-421-22	TRANSISTOR UN2211-TX		R319	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
Q609	8-729-421-22	TRANSISTOR UN2211-TX		R320	1-216-075-00	METAL GLAZE 12K 5%	1/10W
Q610	8-729-421-22	TRANSISTOR UN2211-TX		R321	1-216-105-00	METAL GLAZE 220K 5%	1/10W
Q611	8-729-120-28	TRANSISTOR 2SC1623-T2L6		R322	1-216-071-00	METAL GLAZE 8.2K 5%	1/10W
Q612	8-729-421-22	TRANSISTOR UN2211-TX		R323	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q613	8-729-421-22	TRANSISTOR UN2211-TX		R324	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q614	8-729-120-28	TRANSISTOR 2SC1623-T2L6		R325	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q615	8-729-421-22	TRANSISTOR UN2211-TX		R326	1-216-025-00	METAL GLAZE 100 5%	1/10W
Q616	8-729-120-28	TRANSISTOR 2SC1623-T2L6		R327	1-216-089-00	METAL GLAZE 47K 5%	1/10W
Q617	8-729-216-22	TRANSISTOR 2SA1162-G		R328	1-216-077-00	METAL GLAZE 15K 5%	1/10W
Q618	8-729-216-22	TRANSISTOR 2SA1162-G		R329	1-216-077-00	METAL GLAZE 15K 5%	1/10W
<RESISTOR>				R330	1-216-097-00	METAL GLAZE 100K 5%	1/10W
R101	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R331	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R102	1-216-033-00	METAL GLAZE 220 5%	1/10W	R332	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R103	1-216-085-00	METAL GLAZE 33K 5%	1/10W	R333	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R104	1-216-085-00	METAL GLAZE 33K 5%	1/10W	R334	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R105	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R335	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R106	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R336	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R107	1-216-033-00	METAL GLAZE 220 5%	1/10W	R337	1-216-033-00	METAL GLAZE 220 5%	1/10W
R108	1-216-085-00	METAL GLAZE 33K 5%	1/10W	R338	1-216-097-00	METAL GLAZE 100K 5%	1/10W
R109	1-216-085-00	METAL GLAZE 33K 5%	1/10W	R339	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R110	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R340	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W
R111	1-216-019-00	METAL GLAZE 56 5%	1/10W	R341	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W
R112	1-216-206-00	METAL GLAZE 2.2K 5%	1/8W	R342	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W
R113	1-216-206-00	METAL GLAZE 2.2K 5%	1/8W	R344	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R114	1-216-206-00	METAL GLAZE 2.2K 5%	1/8W	R345	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R115	1-216-206-00	METAL GLAZE 2.2K 5%	1/8W	R346	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R116	1-216-206-00	METAL GLAZE 2.2K 5%	1/8W	R347	1-216-097-00	METAL GLAZE 100K 5%	1/10W
R117	1-216-206-00	METAL GLAZE 2.2K 5%	1/8W	R348	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R118	1-216-206-00	METAL GLAZE 2.2K 5%	1/8W	R349	1-216-689-11	METAL GLAZE 39K 5%	1/10W
R119	1-216-055-00	METAL GLAZE 1.8K 5%	1/10W	R350	1-216-071-00	METAL GLAZE 8.2K 5%	1/10W
R255	1-216-105-00	METAL GLAZE 220K 5%	1/10W	R351	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R256	1-216-105-00	METAL GLAZE 220K 5%	1/10W	R352	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R257	1-216-085-00	METAL GLAZE 33K 5%	1/10W	R353	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R258	1-216-109-00	METAL GLAZE 330K 5%	1/10W	R354	1-216-001-00	METAL GLAZE 10 5%	1/10W
R259	1-216-071-00	METAL GLAZE 8.2K 5%	1/10W	R355	1-216-033-00	METAL GLAZE 220 5%	1/10W
R260	1-216-101-00	METAL GLAZE 150K 5%	1/10W	R356	1-216-001-00	METAL GLAZE 10 5%	1/10W
R261	1-216-081-00	METAL GLAZE 22K 5%	1/10W	R357	1-216-041-00	METAL GLAZE 470 5%	1/10W
R262	1-216-113-00	METAL GLAZE 470K 5%	1/10W	R358	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W
R263	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R359	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
R266	1-216-085-00	METAL GLAZE 33K 5%	1/10W	R360	1-216-097-00	METAL GLAZE 100K 5%	1/10W
R267	1-216-077-00	METAL GLAZE 15K 5%	1/10W	R361	1-216-083-00	METAL GLAZE 27K 5%	1/10W
R268	1-216-071-00	METAL GLAZE 8.2K 5%	1/10W	R362	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
R269	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R363	1-216-041-00	METAL GLAZE 470 5%	1/10W
R301	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R364	1-216-031-00	METAL GLAZE 180 5%	1/10W
R302	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R365	1-216-689-11	METAL GLAZE 39K 5%	1/10W
R303	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W	R366	1-216-689-11	METAL GLAZE 39K 5%	1/10W
R304	1-216-085-00	METAL GLAZE 33K 5%	1/10W	R367	1-216-080-00	METAL GLAZE 20K 5%	1/10W
R305	1-216-083-00	METAL GLAZE 27K 5%	1/10W	R368	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R306	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W	R369	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R307	1-216-045-00	METAL GLAZE 680 5%	1/10W	R370	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R308	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R371	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R309	1-216-055-00	METAL GLAZE 1.8K 5%	1/10W	R372	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R310	1-216-063-00	METAL GLAZE 3.9K 5%	1/10W	R375	1-216-113-00	METAL GLAZE 470K 5%	1/10W
R311	1-216-053-00	METAL GLAZE 1.5K 5%	1/10W	R376	1-216-101-00	METAL GLAZE 150K 5%	1/10W
R312	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R379	1-216-091-00	METAL GLAZE 56K 5%	1/10W
R313	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W	R380	1-216-079-00	METAL GLAZE 18K 5%	1/10W
R314	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W	R381	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R315	1-216-081-00	METAL GLAZE 22K 5%	1/10W	R382	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R316	1-216-097-00	METAL GLAZE 100K 5%	1/10W	R383	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R317	1-216-085-00	METAL GLAZE 33K 5%	1/10W	R384	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R318	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R385	1-216-027-00	METAL GLAZE 120 5%	1/10W
				R386	1-216-093-00	METAL GLAZE 68K 5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	REMARK
R387	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R388	1-216-025-00	METAL GLAZE	100 5% 1/10W
R389	1-216-115-00	METAL GLAZE	560K 5% 1/10W
R391	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R392	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R393	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R394	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R395	1-216-009-00	METAL GLAZE	22 5% 1/10W
R396	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R399	1-216-025-00	METAL GLAZE	100 5% 1/10W
R601	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R602	1-216-009-00	METAL GLAZE	22 5% 1/10W
R603	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R604	1-216-045-00	METAL GLAZE	680 5% 1/10W
R605	1-216-196-00	METAL GLAZE	820 5% 1/8W
R606	1-216-045-00	METAL GLAZE	680 5% 1/10W
R607	1-216-009-00	METAL GLAZE	22 5% 1/10W
R608	1-216-105-00	METAL GLAZE	220K 5% 1/10W
R609	1-216-105-00	METAL GLAZE	220K 5% 1/10W
R610	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R611	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R612	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R613	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R614	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R615	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R616	1-216-033-00	METAL GLAZE	220 5% 1/10W
R617	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R618	1-216-033-00	METAL GLAZE	220 5% 1/10W
R619	1-216-105-00	METAL GLAZE	220K 5% 1/10W
R620	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R621	1-216-129-00	METAL GLAZE	2.2M 5% 1/10W
R622	1-216-025-00	METAL GLAZE	100 5% 1/10W
R623	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R624	1-216-033-00	METAL GLAZE	220 5% 1/10W
R625	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R626	1-216-124-11	METAL GLAZE	1.3M 5% 1/10W
R627	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R628	1-216-025-00	METAL GLAZE	100 5% 1/10W
R629	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R630	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R631	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R632	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R633	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R634	1-216-025-00	METAL GLAZE	100 5% 1/10W
R635	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R636	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R637	1-216-075-00	METAL GLAZE	12K 5% 1/10W
R638	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R639	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R640	1-216-121-00	METAL GLAZE	1M 5% 1/10W
R641	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R642	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R644	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R645	1-216-101-00	METAL GLAZE	150K 5% 1/10W
R646	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R647	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R648	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R649	1-216-033-00	METAL GLAZE	220 5% 1/10W
R650	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R651	1-216-025-00	METAL GLAZE	100 5% 1/10W
R652	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R653	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R654	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R655	1-216-015-00	METAL GLAZE	39 5% 1/10W

REF. NO.	PART NO.	DESCRIPTION	REMARK
R656	1-216-041-00	METAL GLAZE	470 5% 1/10W
R657	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R658	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R659	1-216-025-00	METAL GLAZE	100 5% 1/10W
<VARIABLE RESISTOR>			
RV251	1-228-993-00	RES, ADJ, CERMET	5K
RV252	1-228-991-00	RES, ADJ, METAL GLAZE	2.2K
RV253	1-228-995-00	RES, ADJ, CARBON	22K
RV254	1-228-994-00	RES, ADJ, CERMET	10K
RV255	1-228-993-00	RES, ADJ, CERMET	5K
RV256	1-228-995-00	RES, ADJ, CARBON	22K
RV257	1-228-995-00	RES, ADJ, CARBON	22K
RV301	1-238-693-11	RES, ADJ, VR.EVM4LG	5K
RV302	1-237-524-21	RES, ADJ, CARBON	1M
RV303	1-228-994-00	RES, ADJ, CERMET	10K
RV304	1-228-994-00	RES, ADJ, CERMET	10K
RV305	1-228-993-00	RES, ADJ, CERMET	5K
RV306	1-228-993-00	RES, ADJ, CERMET	5K
RV307	1-228-997-00	RES, ADJ, METAL GLAZE	100K
RV308	1-228-996-00	RES, ADJ, CERMET	50K
RV309	1-238-688-11	RES, ADJ, VR.EVM4LG	100
RV310	1-228-997-00	RES, ADJ, CERMET	100K
RV311	1-228-996-00	RES, ADJ, CERMET	50K
RV312	1-228-996-00	RES, ADJ, CERMET	50K
RV313	1-228-998-00	RES, ADJ, METAL GLAZE	220K
RV314	1-230-868-11	RES, ADJ, METAL GLAZE	2.2K
RV601	1-230-871-11	RES, ADJ, METAL GLAZE	22K
RV602	1-237-964-11	RES, ADJ, METAL GLAZE	4.7K

*A-1380-375-A K BOARD, COMPLETE			

<CAPACITOR>			
C741	1-124-907-11	ELECT	10MF 20% 50V
C742	1-162-116-00	CERAMIC	680PF 10% 2KV
<CONNECTOR>			
P741	*1-560-891-00	PIN, CONNECTOR	3P
P742	1-564-348-11	PIN, CONNECTOR	
P743	1-564-348-11	PIN, CONNECTOR	
<TRANSISTOR>			
Q741	8-729-820-98	TRANSISTOR	2SC4256CB
<RESISTOR>			
R741	1-214-927-00	METAL FILM	390K 1% 1/2W
R742	1-214-927-00	METAL FILM	390K 1% 1/2W
R743	1-214-927-00	METAL FILM	390K 1% 1/2W
R744	1-247-719-11	CARBON	3.3K 5% 1/4W
R745	1-247-726-11	CARBON	33K 5% 1/4W
R746	1-249-461-11	CARBON	18K 5% 1/4W
R747	1-260-108-11	CARBON	5.6K 5% 1/2W
R749	1-216-393-00	METAL OXIDE	2.2 5% 3W F
<TRANSFORMER>			

K

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
T741	1-423-347-11	TRANSFORMER, FOCUS DYNAMIC	

MISCELLANEOUS			

	Δ 1-451-408-11	DEFLECTION YOKE (TCD-12501)	
V901	Δ 8-738-577-05	PICTURE TUBE 17FQ6	
	Δ 738-577-81	PICTURE TUBE, ITC (17FQ6)	

ACCESSORIES & PACKING MATERIALS			

PART NO.	DESCRIPTION	REMARK	
Δ 1-534-827-14	CORD, POWER		
3-754-167-22	MANUAL, INSTRUCTION		
*4-033-922-01	INDIVIDUAL CARTON		
*4-033-923-01	CUSHION (UPPER) (ASS'Y)		
*4-033-924-01	CUSHION (LOWER) (ASS'Y)		
*4-033-925-01	SPACER		
*4-377-015-01	BAG, PROTECTION		