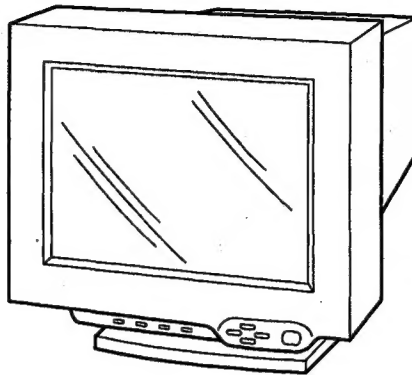


CPD-200SF/200SFT

SERVICE MANUAL

Multiscan **200sf**



CPD-200SF

US Model

Canadian Model

ES Model

Chassis No. SCC-K17B-A

Australian Model

Chassis No. SCC-K17D-A

CPD-200SFT

AEP Model

UK Model

Chassis No. SCC-K17C-A

X2R CHASSIS

SPECIFICATIONS

Picture tube 0.25 mm aperture grille pitch
17 inches measured diagonally
90-degree deflection

Viewable image size Approx. 327 × 241 mm (w/h)
(12 7/8 × 9 1/2 inches)
15.9" viewing image

Logical resolution Horizontal: Max. 1280 dots
Vertical: Max. 1024 lines

Physical resolution Horizontal: Max. 1280 dots
Vertical: Max. 1024 lines

Standard image area Approx. 312 × 234 mm (w/h)
(12 3/8 × 9 1/4 inches)

Deflection frequency Horizontal: 30 to 80 kHz
Vertical: 50 to 120 Hz

AC input voltage/current

100 to 240 V, 50 – 60 Hz, 2 – 1 A

Dimensions

Approx. 406 × 426.5 × 451 mm (w/h/d)
(16 × 16 7/8 × 17 7/8 inches)

Mass

Approx. 19 kg (41 lb 14 oz)

Design and specifications are subject to change without notice.



TRINITRON® COLOR COMPUTER DISPLAY
SONY®

DIAGNOSIS

	Power Saving LED	Power LED
Failure	Blink	Blink

Aging Mode : Raster aging

During Power Save, press "POWER switch" button for longer than 2 seconds.

Self Test : OSD color-bar indication

During Power Save, press "POWER switch" button for longer than 8 seconds.

TIMING SPECIFICATION

PRIMARY MODE MODE AT PRODUCTION	MODE 1	MODE 2	PRIMARY MODE 3	MODE 4	MODE 5	MODE 6	MODE 7	MODE 8	MODE 9	MODE 10	MODE 11
RESOLUTION	800 X 600	832 X 624	1024 X 768	1024 X 768	1152 X 870	1280 X 1024	640 X 480	640 X 350	720 X 400	800 X 600	1024 X 768
CLOCK	49.500 MHz	57.300 MHz	78.750 MHz	80.000 MHz	100.000 MHz	135.000 MHz	25.175 MHz	25.175 MHz	28.322 MHz	56.250 MHz	94.500 MHz
— HORIZONTAL —											
H-FREQ	46.875 kHz	49.740 kHz	60.023 kHz	60.241 kHz	68.681 kHz	79.976 kHz	31.469 kHz	31.469 kHz	31.469 kHz	53.674 kHz	68.677 kHz
	usec	usec	usec	usec	usec	usec	usec	usec	usec	usec	usec
H. TOTAL	21.333	20.105	16.660	16.600	14.560	12.504	31.778	31.778	31.777	18.631	14.561
H. BLK	5.172	5.585	3.657	3.800	3.040	3.022	6.356	6.356	6.355	4.409	3.725
H. FP	0.323	0.558	0.203	0.400	0.320	0.119	0.636	0.636	0.636	0.569	0.508
H. SYNC	1.616	1.117	1.219	1.200	1.280	1.067	3.813	3.813	3.813	1.138	1.016
H. BP	3.232	3.909	2.235	2.200	1.440	1.837	1.907	1.907	1.907	2.702	2.201
H. ACTIV	16.162	14.520	13.003	12.800	11.520	9.481	25.422	25.422	25.422	14.222	10.836
— VERTICAL —											
V. FREQ(HZ)	75.000 Hz	74.572 Hz	75.029 Hz	74.927 Hz	75.062 Hz	75.025 Hz	59.940 Hz	70.086 Hz	70.087 Hz	85.061 Hz	84.997 Hz
	lines	lines	lines	lines	lines	lines	lines	lines	lines	lines	lines
V. TOTAL	625	667	800	804	915	1066	525	449	449	631	808
V. BLK	25	43	32	36	45	42	45	99	49	31	40
V. FP	1	1	1	3	3	1	10	37	12	1	1
V. SYNC	3	3	3	3	3	3	2	2	2	3	3
V. BP	21	39	28	30	39	38	33	60	35	27	36
V. ACTIV	600	624	768	768	870	1024	480	350	400	600	768
— SYNC —											
INT(G)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
EXT(HV)/POLARITY	YES P/P	YES N/N	YES P/P	YES N/N	YES N/N	YES P/P	YES N/N	YES P/N	YES N/P	YES P/P	YES P/P
EXT(CS)/POLARITY	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
INT/NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT

96.8.30 VER.

Power Saving Function

This monitor meets the power saving guidelines set by the International ENERGY STAR Program as well as the more stringent TCO92 803299 (NUTEK) guidelines. It is capable of reduced power consumption when used with a computer equipped with Display Power Management Signaling (DPMS). By sensing the absence of the sync signal coming from the computer, it will reduce the power consumption as follows:

CAUTION: The Power Saving function will automatically put the monitor into Active-off state if the power switch is turned on without any video signal input. Once the horizontal and vertical syncs are sensed, the monitor will automatically return to its Normal operation state.

	State	Power consumption	Required resumption time	POWER indicator	POWER SAVING indicator
1	Normal operation	100%	—	green on	off
2	Suspend (1st step of power saving)	approx. 10%	approx. 3 sec.	green on	orange on
3	Active-off (2nd step of power saving)	approx. 7%	approx. 10 sec.	off	orange on
4	Power-off	approx. 7%	—	off	off

If you want the power consumption to be 0W, unplug the power cord.

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 cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the B+ and HV to see if they are specified values. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
8. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC Leakage. Check leakage as described below.

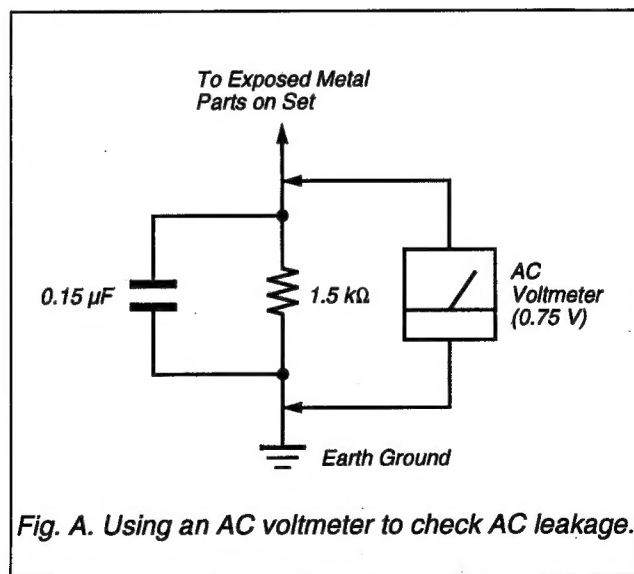


Fig. A. Using an AC voltmeter to check AC leakage.

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 VOMs that are suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

WARNING!!

NEVER TURN ON THE POWER IN A CONDITION IN WHICH THE DEGAUSS COIL HAS BEEN REMOVED.

SAFETY-RELATED COMPONENT WARNING!!
COMPONENTS IDENTIFIED BY SHADING AND MARK Δ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR 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 FOR SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

AVERTISSEMENT!!

NE JAMAIS METTRE SOUS TENSION QUAND LA BOBINE DE DEMAGNETISATION EST ENLEVÉE.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

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 SPECIFIÉ. 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.

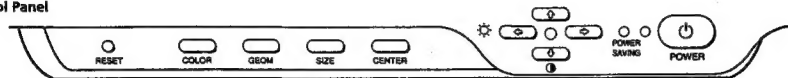
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Adjustments

When one of the preset-type signals is input, no picture adjustment is necessary. You can, however, adjust the picture to your preferences by following the procedure described below. You can adjust the all items on the OSD (On Screen Display).

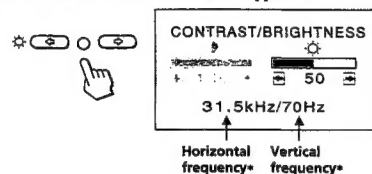
Control Panel



Adjusting the Picture Brightness

The adjustment data becomes the common setting for all input signals.

- 1 Press the button. The "CONTRAST/BRIGHTNESS" OSD appears.



- 2 Press the buttons to adjust picture brightness.
 - ← ... for less brightness
 - ... for more brightness

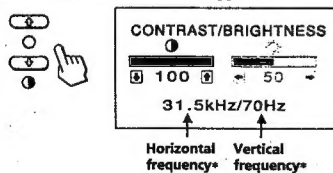
The "CONTRAST/BRIGHTNESS" OSD disappears 3 seconds after you release the buttons.

To reset, press the RESET button while the OSD is on.

Adjusting the Picture Contrast

The adjustment data becomes the common setting for all input signals.

- 1 Press the button. The "CONTRAST/BRIGHTNESS" OSD appears.



- 2 Press the buttons to adjust picture contrast.
 - ↑ ... for more contrast
 - ↓ ... for less contrast

The "CONTRAST/BRIGHTNESS" OSD disappears 3 seconds after you release the buttons.

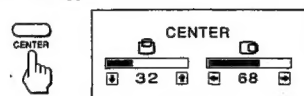
To reset, press the RESET button while the OSD is on.

- Before adjusting the items, turn on the unit and feed the video signal from the connected computer/work station.
- Adjustments will be stored automatically.

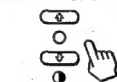
Adjusting the Picture Centering

The adjustment data becomes the individual setting for each input signal received.

- 1 Press the CENTER button. The "CENTER" OSD appears.

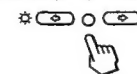


- 2 For vertical adjustment Press the buttons.



↑ ... to move up
↓ ... to move down

For horizontal adjustment Press the buttons.



← ... to move left
→ ... to move right

To erase the "CENTER" OSD, press the CENTER button again. The "CENTER" OSD automatically disappears 10 seconds after you release the buttons.

To reset, press the RESET button while the OSD is on.

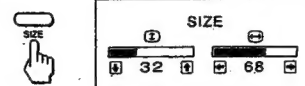
*The horizontal and vertical frequencies for each input signal received appear on the "CONTRAST/BRIGHTNESS" OSD.

Adjustments

Adjusting the Picture Size

The adjustment data becomes the individual setting for each input signal received.

- 1 Press the SIZE button. The "SIZE" OSD appears.

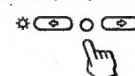


- 2 For vertical adjustment Press the buttons.



↑ ... to enlarge
↓ ... to diminish

For horizontal adjustment Press the buttons.



← ... to diminish
→ ... to enlarge

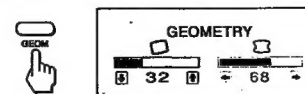
To erase the "SIZE" OSD, press the SIZE button again. The "SIZE" OSD automatically disappears 10 seconds after you release the buttons.

To reset, press the RESET button while the OSD is on.

Adjusting the Picture Rotation

The adjustment data becomes the common setting for all input signals.

- 1 Press the GEOM button. The "GEOMETRY" OSD appears.



- 2 Press the buttons.
 - ↑ ... to rotate clockwise
 - ↓ ... to rotate counterclockwise



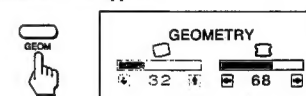
To erase the "GEOMETRY" OSD, press the GEOM button again. The "GEOMETRY" OSD automatically disappears 10 seconds after you release the buttons.

To reset, press the RESET button while the OSD is on.

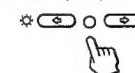
Adjusting the Pincushion

The adjustment data becomes the individual setting for each input signal received.

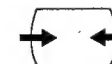
- 1 Press the GEOM button. The "GEOMETRY" OSD appears.



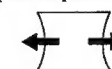
- 2 Press the buttons.



← ... to diminish the picture sides



→ ... to expand the picture sides



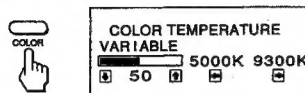
To erase the "GEOMETRY" OSD, press the GEOM button again. The "GEOMETRY" OSD automatically disappears 10 seconds after you release the buttons.

To reset, press the RESET button while the OSD is on.

Setting the Color Temperature

The selected color temperature becomes the common setting for all input signals.

- 1 Press **COLOR** button.
The "COLOR TEMPERATURE" OSD appears.



- 2 Adjust with the $\leftarrow/\rightarrow$ and $\uparrow/\downarrow$ buttons.

To select 5000K or 9300K

Press $\leftarrow/\rightarrow$ buttons.

The selected color temperature is indicated in yellow.



$\leftarrow$... to select 5000K

$\rightarrow$... to select 9300K

To obtain the desired color temperature between 5000K and 9300K

Press $\uparrow/\downarrow$ buttons.



$\uparrow$... for higher temperature

$\downarrow$... for lower temperature

Your most recent adjusted color temperature will be recalled by pressing $\uparrow/\downarrow$ button.

To erase the "COLOR TEMPERATURE" OSD, press the **COLOR** button again.

The "COLOR TEMPERATURE" OSD automatically disappears 10 seconds after you release the buttons.

To reset, press the **RESET** button while the OSD is on.

Resetting the Adjustment Data to Factory-preset Levels

To reset an adjustment item

Press the button of the adjustment item you want to reset, and then press the **RESET** button before the OSD (On Screen Display) disappears.

To reset all adjustment data at once (for the received signal)

Press the **RESET** button with something like a pen for 1 second when no OSD is shown.



To reset all adjustment data to factory-preset levels

Press and hold the **RESET** button for more than 2 seconds. All adjustment data are reset to factory-preset levels.



Troubleshooting

This section may help you isolate a problem and as a result, eliminate the need to contact technical support, allowing continued productivity.

No picture

- If neither the $\odot$ **POWER** indicator nor the **POWER SAVING** indicator is lit
 - Check that the power cord is properly connected.
 - Check that the $\odot$ **POWER** switch is in the "ON" position.
- If the **POWER SAVING** indicator is lit
 - Check that your computer power switch is in the "ON" position.
 - The monitor will recover when you press any key on the keyboard of the computer.
 - Check that the video cable is properly connected.
 - Ensure that no pins are bent or pushed in the HD15 connector of the cable.
 - Check that the video card is seated completely in a proper bus slot.
 - Check that the video sync signal is within that specified for the monitor.
 - If using a Mac system, check that a proper HD15 - D15 adapter is provided to work correctly with your Mac.
 - The monitor has a self-diagnose function. After turning the $\odot$ **POWER** switch off, press and hold the $\odot$ **POWER** switch for 8 seconds. If the $\odot$ **POWER** indicator blinks, the screen turns white, and the color bars appear, then these conditions show that the monitor is operating normally. Contact the maker of the computer to which the monitor is connected.
- If the $\odot$ **POWER** and the **POWER SAVING** indicators are both flashing
 - There is a potential monitor failure. Contact your dealer.

If the message of "OUT OF SCAN RANGE" appears on the screen

- Check that the video sync signal is specified for the monitor.

Picture is scrambled

- Check your graphics board manual for the proper monitor setting on your Multiscan 100sf/200sf.
- Check this manual and confirm that the graphic mode and the frequency at which you are trying to operate is supported. Even within the proper range some video boards may have a sync pulse that is too narrow for the monitor to sync correctly.

Color is not uniform

- If the monitor is close to any potential sources of magnetic fields such as a speaker, or you turn the monitor while the $\odot$ **POWER** switch is in the "ON" position, color may not be uniform. Trip the $\odot$ **POWER** switch once to activate the Auto-degauss cycle*.

Picture is flickering

- If the refresh rate is not appropriate, the picture may flicker. Set the refresh rate of the non-interlace mode as high as possible on the computer. For details on how to set the refresh rate, consult the dealer of your computer or video board.

Screen image is not centered or sized properly

- Adjust the "CENTER," "SIZE," or "GEOMETRY" on the OSD (pages 5, 6).
- Some video modes do not fill the screen to the edge of the monitor. There is no single answer to solve the problem. There is a tendency to have this problem on higher refresh timings and Macintosh video timings.

Picture is fuzzy

- Adjust the "CONTRAST" and "BRIGHTNESS" on the OSD (page 5). We have come across several brands of SVGA boards that have an excessive video output level which creates a fuzzy picture at max contrast.
- Trip the $\odot$ **POWER** switch once to activate the Auto-degauss cycle*.

Picture bounces or has wavy oscillations

- Isolate and eliminate any potential sources of electric or magnetic fields. Common causes for this symptom are electric fans, fluorescent lighting, laser printers, and so on.
- If you have another monitor close to this monitor, increase the distance between them to reduce the interference.
- Try plugging the monitor into a different AC outlet, preferably on a different circuit.
- Try the monitor on a completely different computer in a different room.

Picture appears to be ghosting

- Eliminate the use of video cable extension cables and/or video switch boxes if this symptom occurs. Excessive cable length or weak connections can produce this symptom.

A fine horizontal line (wire) is visible

- This wire stabilizes the vertically striped Aperture Grille (page 8). This Aperture Grille allows more light to pass through to the screen giving the Trinitron CRT more color and brightness.

Wavy or elliptical (moire) pattern is visible

- Due to the relationship between resolution, monitor AG pitch and the pitch of some image patterns, certain screen backgrounds, especially gray, sometimes show moire. This can only be eliminated by changing your desktop pattern.

Just after turning the monitor on, a "boon" noise is heard

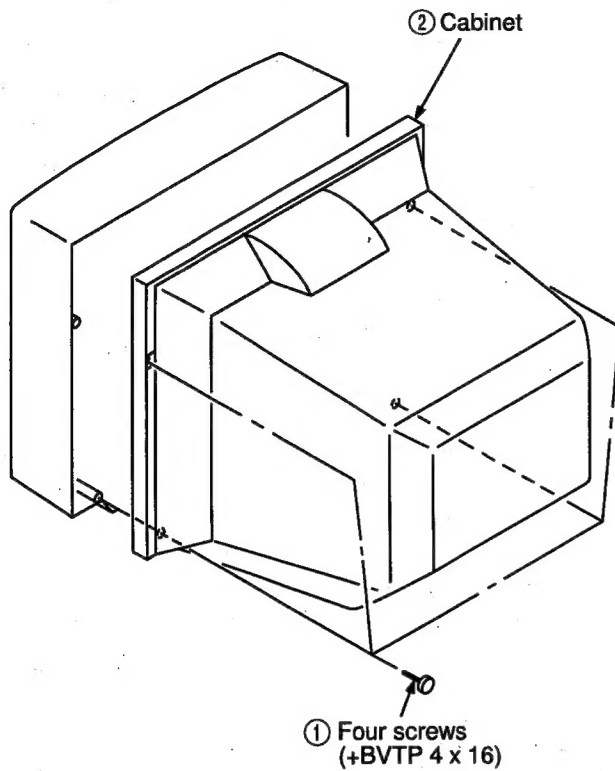
- Just after turning the monitor on, a noise may be heard for about 3 seconds. This noise is not failure, it is caused by the auto-degauss cycle*.

* The Auto-degauss function demagnetizes the metal frame of the CRT to obtain a neutral field for uniform color reproduction. If a second degauss cycle is needed, allow a minimum interval of 20 minutes for the best result.

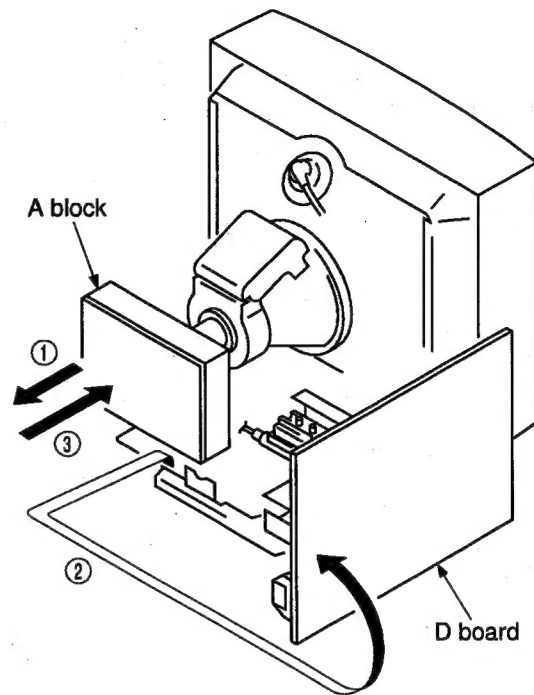
- If the problem persists, call your authorized Sony dealer from a location near your monitor.
- Note the model name and the serial number of your monitor. Also note the make and name of your computer and video board.

SECTION 2 DISASSEMBLY

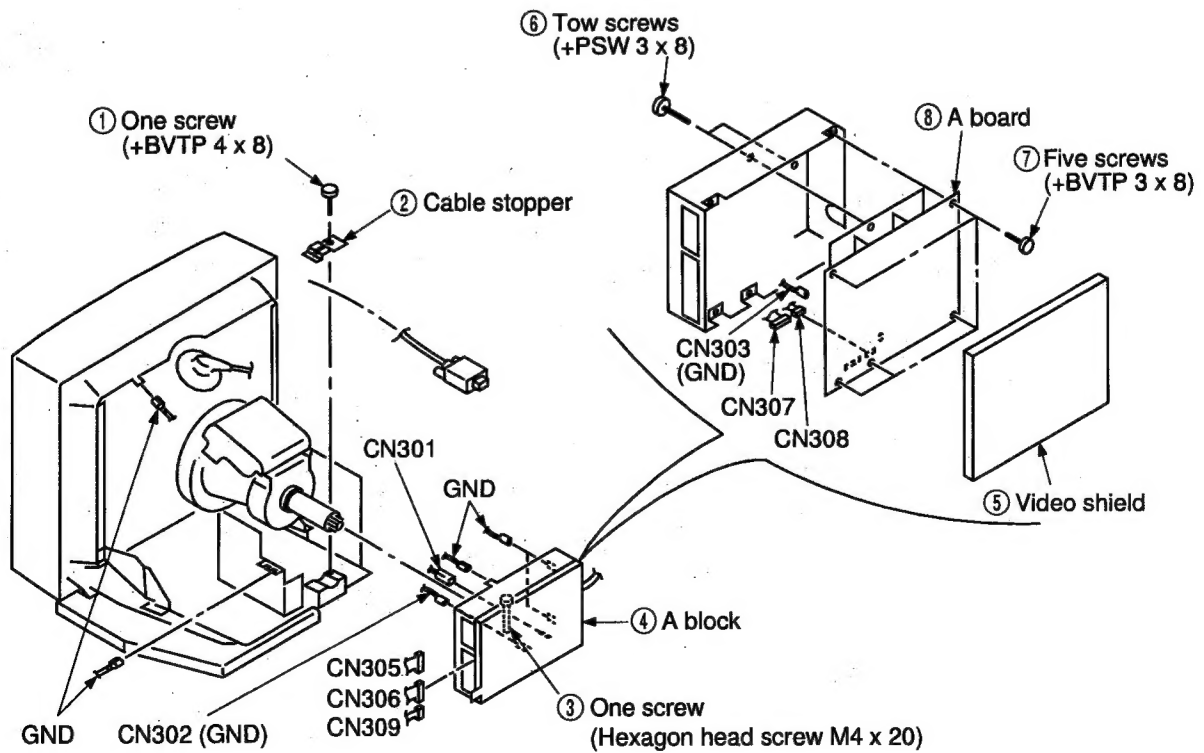
2-1. CABINET REMOVAL



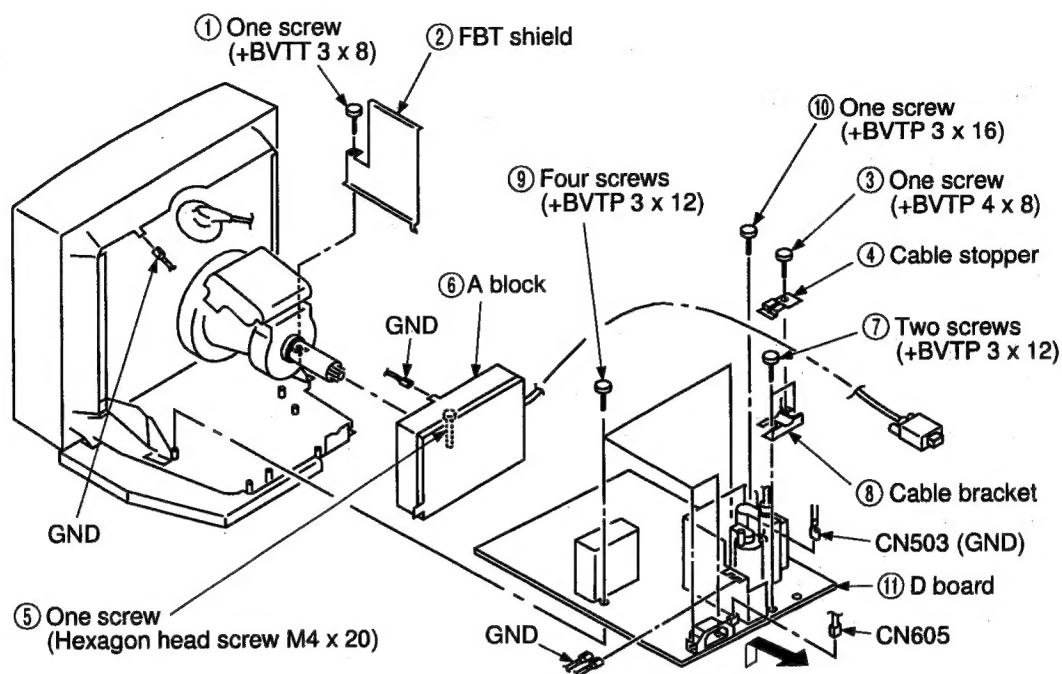
2-2. SERVICE POSITION



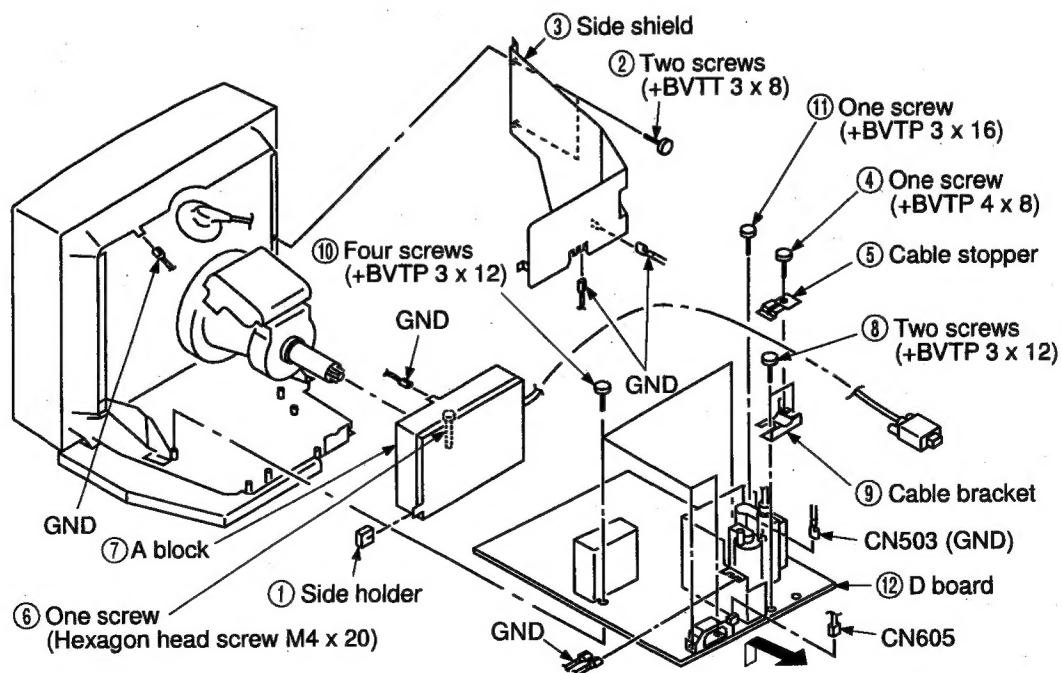
2-3. A BOARD REMOVAL



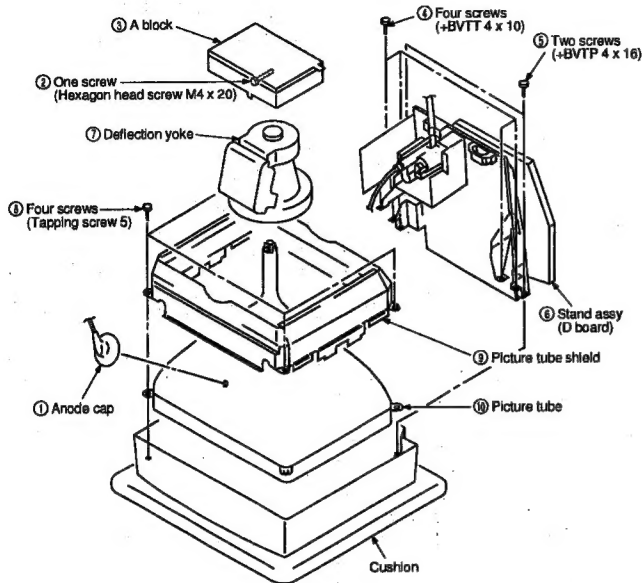
2-4-1. D BOARD REMOVAL (CPD-200SF)



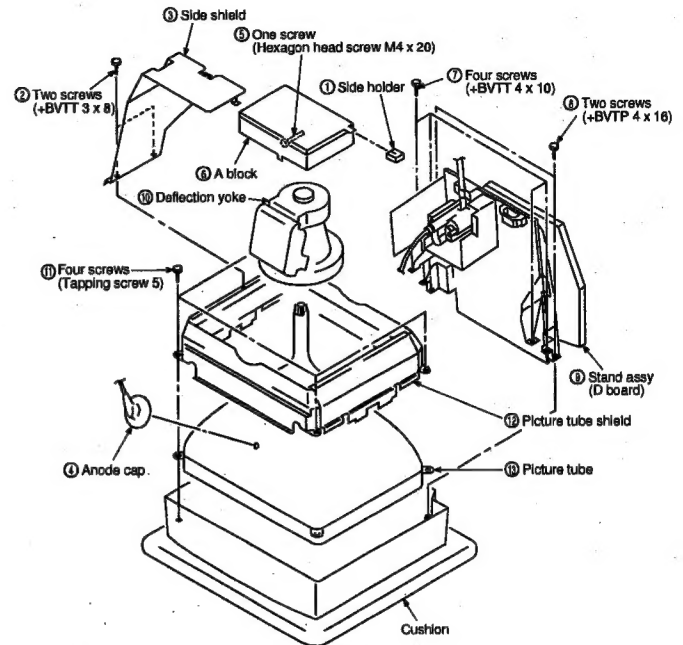
2-4-2. D BOARD REMOVAL (CPD-200SFT)



2-5-1. PICTURE TUBE REMOVAL (CPD-200SF)



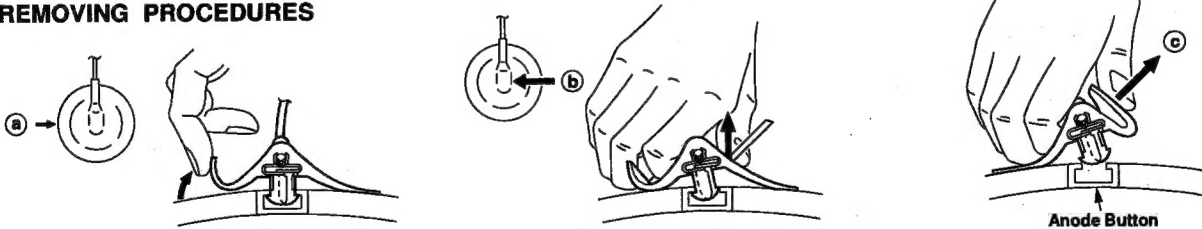
2-5-1. PICTURE TUBE REMOVAL (CPD-200SFT)



• REMOVAL OF ANODE-CAP

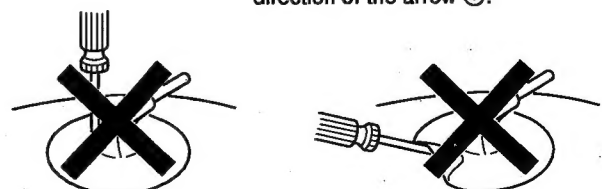
NOTE: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon painted on the CRT, after removing the anode.

• 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 material 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

SAFETY RELATED ADJUSTMENT

When replacing or repairing the shown below table, the following operational checks must be performed as a safety precaution against X-rays emissions from the unit.

	Part Replaced (▣)
HV ADJ	RV501

	Part Replaced (▣)
HV Regulator Circuit	D board IC501, Q505, Q510, D505, D512, D516, C506, C526, C531, C532, C535, C558, R512, R532, R535, R536, R537, R538, RV501, T501
HV Protector Circuit	D board IC701, D800, D801 C709, C803, C804, R706, R800, R804, R808, T501 • Mounted D board
Beam Current Protector Circuit	D board IC701, IC901, Q801, D517, D802, C537, C806, C807, C912, R539, R540, R541, R542, R809, R810, R811, R812, R816, R933, T501 • Mounted D board

※ Confirm one minute later turning on the power.

● HV Protector Check

Confirm that the HV protector circuit works and CRT screen disappearing when apply the voltage as shown below between Anode of D800 on D board and GND using an external DC Power Supply.

- Standard voltage : Anode of D800 less than 28.90 V DC

Check Condition

- Input voltage : 120 V AC
- Input signal : Dot at 60.0 kHz
(VESA 1024 x 768)
- Beam control : BRT and CONT → Minimum

● Beam Protector Check

(1) Software logic circuit

- 1) Confirm that the Beam current protector by software logic works and CRT screen disappearing when connect 150 k Ω resistor in parallel with R542 on D board.

(2) Hardware logic circuit

- 1) Using an external DC Power Supply, applying voltage of 5.00 V to between ⑪ pin of IC901 D board and GND.
- 2) Confirm that the Beam current protector circuit by hardware logic works and CRT screen disappearing when shorted to between ⑪ pin of T501 and GND.

Check Condition

- Input voltage : 120 V AC
- Input signal : All white at 60.0 kHz
(VESA 1024 x 768)
- Beam control : CONT and BRT → Maximum

● B+ Voltage Check

Standard voltage : 169.0 $\pm$ 1.0 V DC

Check Condition

- Input voltage : 120 V AC
- Note : Use NF power supply or make sure that distortion factor is 3% or less.
- Input signal : Cross hatch at 80.0 kHz
- Beam control : CONT, BRT → Maximum

SECTION 4

ADJUSTMENTS

● Landing Rough Adjustment

1. Enter the full white signal.
2. Set the contrast to "CONT"=255.
3. Make the screen monogreen.

Note: Off the outputs from R ch and B ch of SG.

4. Reverse the DY, and adjust coarsely the purity magnet so that a green raster positions in the center of screen.
5. Moving the DY forward, adjust so that an entire screen becomes monogreen.
6. Adjust the tilt of DY, and fix lightly with a clamp.

Note: "TILT" shall be set at 0.

● Landing Fine Adjustment

1. Put the set inside the Helmholtz coil.
2. Input the single green signal and set the CONT control to MAX.

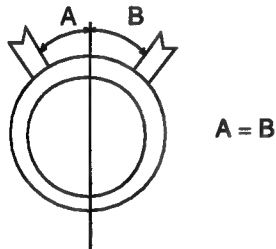
Note: Set to $\Sigma 1k=300 \mu A$ with the signal green signal, and after aging for about 30 minutes, adjust so that it is exactly this value.

3. Demagnetize the CRT surface with the hand degausser, and perform auto degaussing.

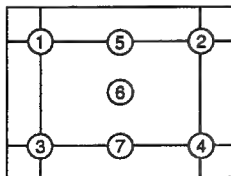
Note: Adjust in a non-magnetic field.

4. Attach the wobbling coil to the designated part of the CRT neck.
5. Attach the sensor of the landing adjustment unit on the CRT surface.
6. Adjust the DY position and purity, and the DY tilt, and landing of the center and 4 corners with the landing checker.

Purity



<Specification>



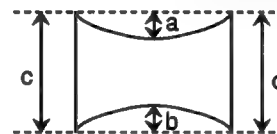
Adjust the green of corners ① to ④, and center ⑥ to $\pm 5 \mu m$, and red and blue to within $\pm 7 \mu m$ of green, and the difference between red and blue to within $\pm 10 \mu m$.

Adjust the green of ⑤ and ⑦ to within $\pm 10 \mu m$, and red and blue to within $\pm 7 \mu m$ of green, and the difference between red and blue to within $\pm 10 \mu m$.

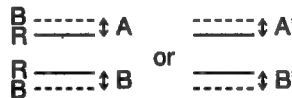
(Set each corner to 1st frame of the crosshatch.)

7. For the up/down and left/right swing, swing the DY and insert a wedge so that the up and down pins are equal at the top and bottom and the horizontal trapezoid is equal at the left and right. Insert the wedge firmly so that the DY does not shake.

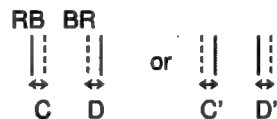
Signals: Inverted crosshatch signal (monochrome G) and crosshatch signals (B and R)



"a" and "b" must be equal, and "c" and "d" must be almost equal.

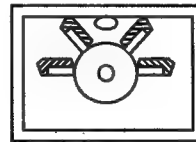


A and B, or A' and B' must be almost equal.



C and D, or C' and D' must be almost equal.

<How to drive in wedges>



Drive in wedges as shown in the left figure, and apply RTV as shown with hatched lines.

← As viewed from a neck side

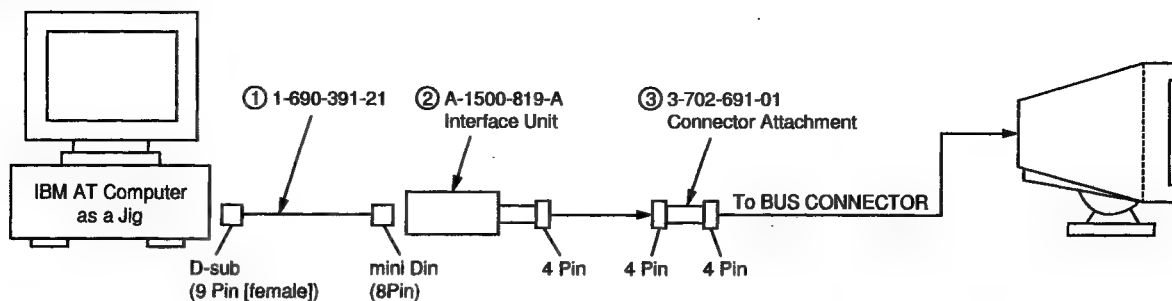
8. Check the landing of each corner, and if they do not satisfy the specification, paste a Disk-Mg onto the funnel and adjust.

Note:

- (1) Do not paste more than 2 magnets to one corner.
- (2) Paste within 80 to 100 mm from the DY on the diagonal line of the magnet.
- (3) If using the magnet, be sure to demagnetize with the hand degausser and check.
9. Remove the sensor and wobbling coil.
10. Switch the signal to R.G.B., and check that each color is pure.
11. Check that the DY is not tilting, and fix the purity Mg with a white pen.
12. Fasten DY with screw.

Note: Torque $20 \pm 2 kg \cdot cm$

Connect the communication cable of the computer to the connector located on the D board on the monitor. Run the service software and then follow the instruction.



*The parts above (① ~ ③) are necessary for DAS adjustment.

● Convergence Rough Adjustment

1. Enter the white crosshatch signal (white lines on black).
2. Adjust roughly the horizontal and vertical convergence at four-pole magnet.
3. Adjust roughly HMC and VMC at six-pole magnet. Standard: $\pm 0.1\text{mm}$ (In the center of screen)
4. Make rough adjustment of the H direction convergence by using H. STAT VR (RV001 of A board).

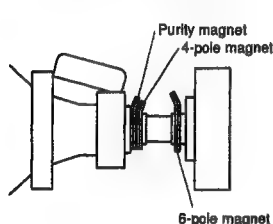


Fig. 1

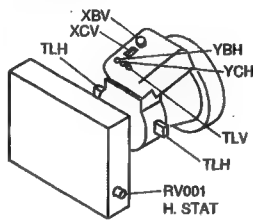
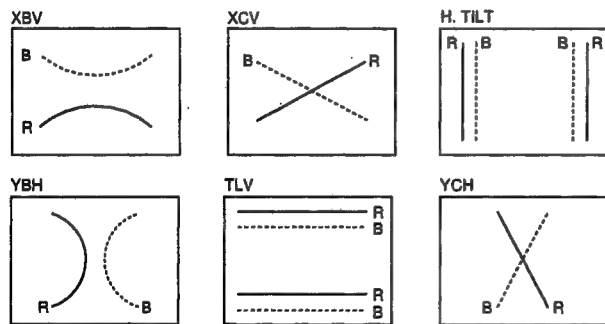


Fig. 2



<6 Pole Magnet>

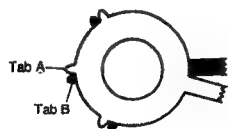
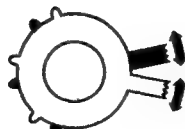
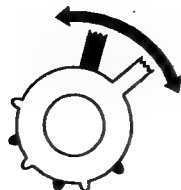


Fig. 3

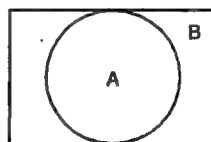


Adjust HMC
Fig. 4



Adjust VMC
Fig. 5

● Convergence Specification

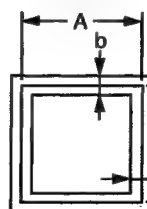


MODE	All mode
A	0.24 mm
B	0.32 mm

● White Balance Adjustment Specification

- (1) 9300K
 $x = 0.283 \pm 0.005$
 $y = 0.298 \pm 0.005$
- (2) 5000K
 $x = 0.345 \pm 0.005$
 $y = 0.358 \pm 0.005$

● Vertical and Horizontal Position and Size Specification



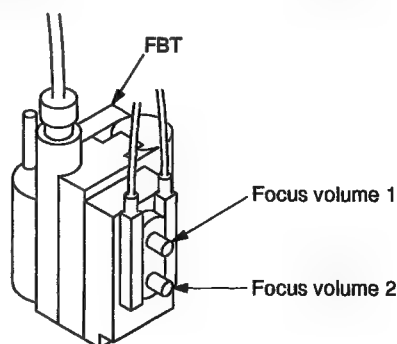
$$a \leq 2.2 \text{ mm}$$

$$b \leq 2.2 \text{ mm}$$

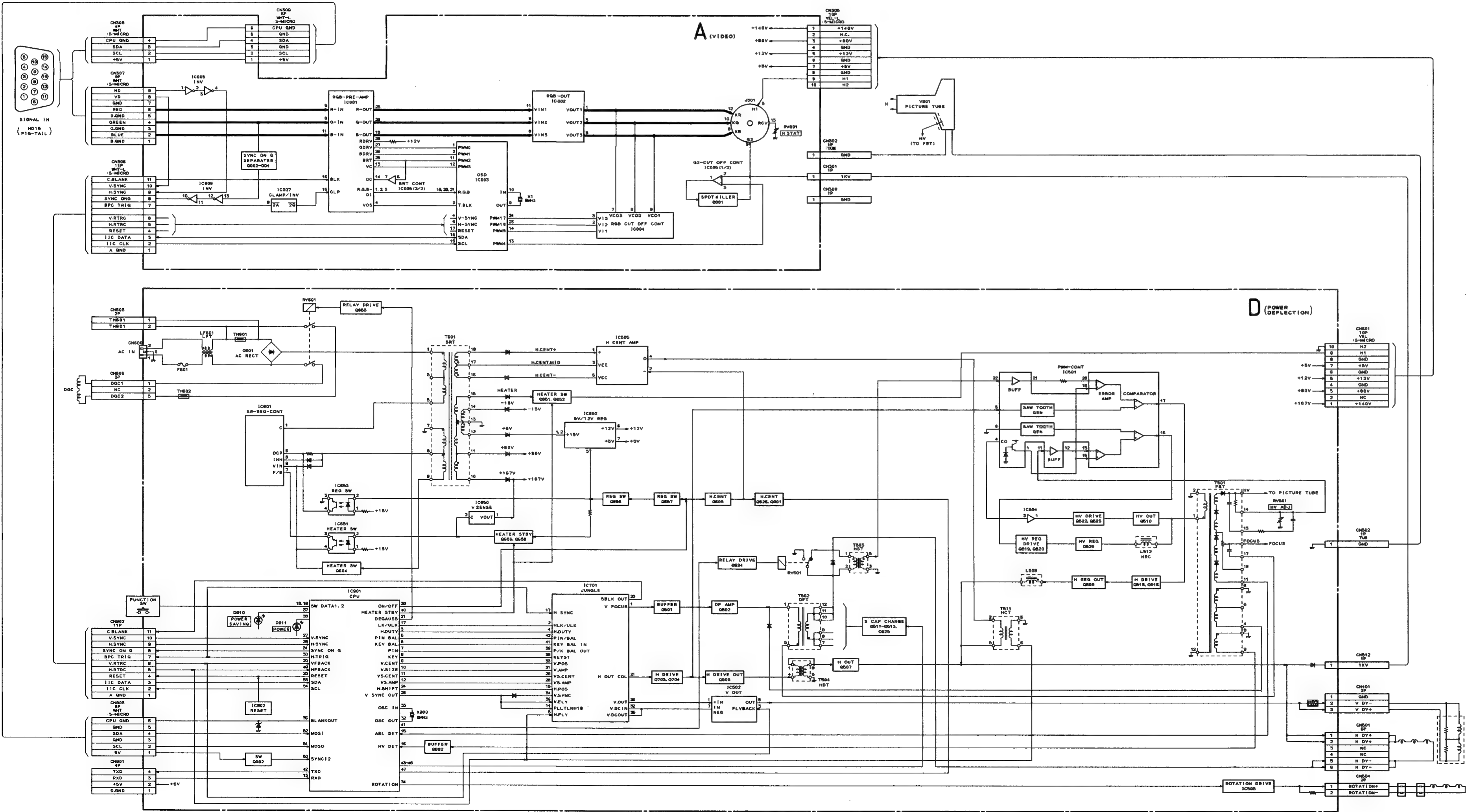
MODE	All mode
A	312 mm
B	234 mm

● Focus adjustment

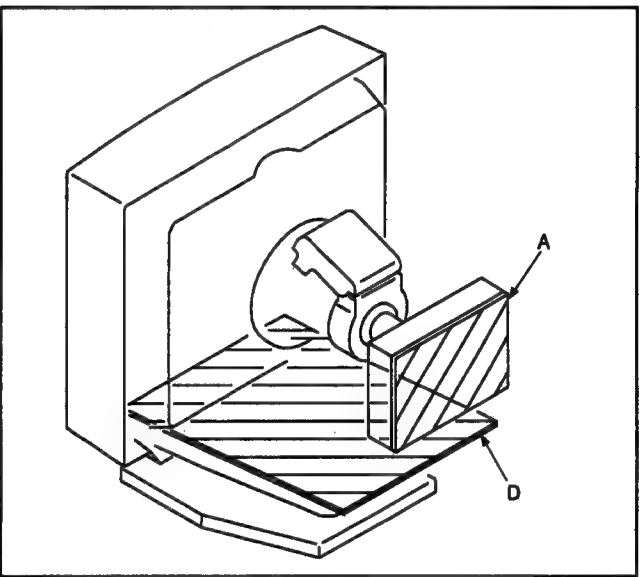
Adjust the focus volume 1 and 2 for the optimum focus.



5-1. BLOCK DIAGRAM (with FRAME SCHEMATIC DIAGRAM)



5-2. CIRCUIT BOARDS LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

- Note:**
- All capacitors are in μF unless otherwise noted. pF : μpF
 - 50 V or less are not indicated except for electrolytic.
 - Indication of resistance, which does not have one for rating electrical power, is as follows.
- Pitch: 5 mm
Rating electrical power 1/4 W (CHIP: 1/10 W)
- All resistors are in ohms.
 - $\square$: nonflammable resistor.
 - $\square$: fusible resistor.
 - Δ : internal component.
 - $\square$: panel designation, and adjustment for repair.
 - All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
 - $\perp$: earth-ground.
 - --- : earth-chassis.
 - The components identified by $\square$ 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 $\square$, make the necessary adjustments indicated. (See page 10)
 - When replacing the part in below table, be sure to perform the related adjustment.

	Part replaced ($\square$)
HV ADJ	RV501

	Part replaced ($\square$)
HV Regulator Circuit	D board IC501, Q505, Q510, D512, D516, C506, C526, C531, C532, C535, C558, R512, R532, R535, R536, R537, R538, RV501, T501
HV Protector Circuit	D board IC701, D800, D801, C709, C803, C804, R706, R800, R808, T501 • Mounted D board
Beam Current Protector Circuit	D board IC701, IC901, Q801, D517, D802, C537, C806, C807, C912, R539, R540, R541, R542, R809, R810, R811, R812, R816, R933, T501 • Mounted D board

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

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

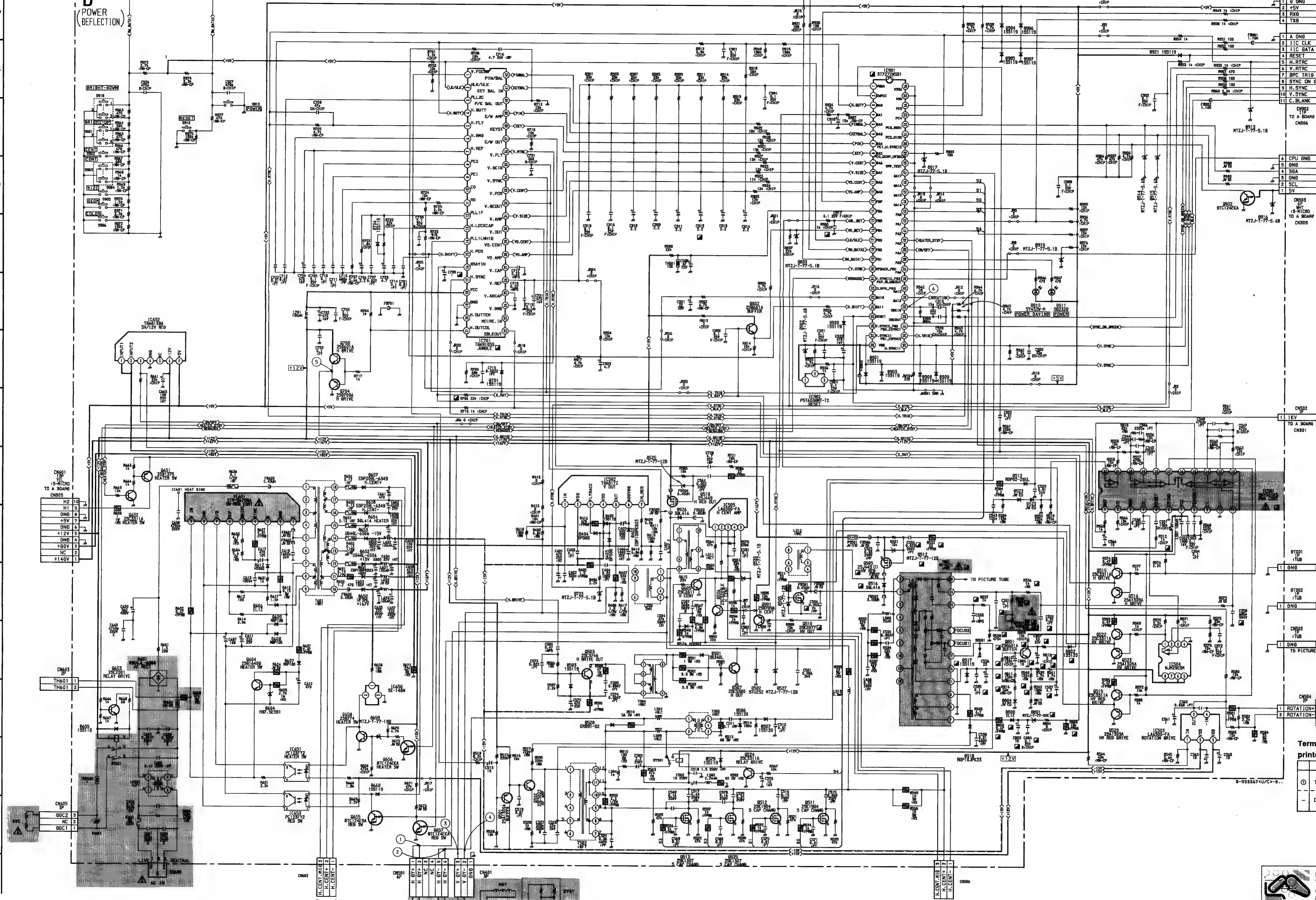
- All voltages are in V.
- Readings are taken with a 10 M Ω digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- * : Can not be measured.
- Circled numbers are waveform references.
- --- : B + bus.
- --- : B - bus.

(1) Schematic Diagram of D Board

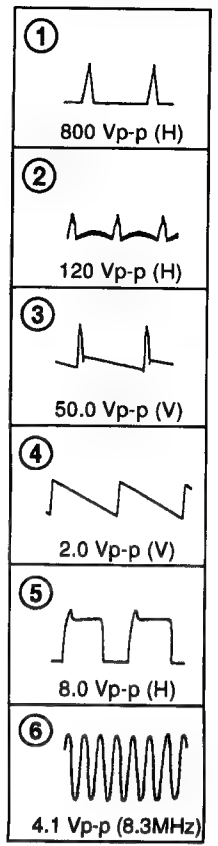
● D BOARD
VOLTAGE LIST

Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]
IC501	1	5.9	IC901	31	0.7
	2	8.9		32	1.9
	3	0		33	2.3
	4	6.9		34	2.3
	5	0.6		35	0
	6	6.9		36	3.9
	11	6.0		37	3.7
	12	38		38	0.5
	13	5.9		39	4.3
	14	4.6		40	3.3
	15	5.9		41	2.9
	16	9.2		42	5.1
	17	6.7		43	5.1
	18	5.9		44	5.1
	19	5.7		45	0
	20	5.9		46	5.1
	21	7.8		47	2.4
	22	7.8		49	0.1
				50	5.1
				51	4.4
				52	*
				53	4.8
				54	4.7
IC502	1	1.4	Q502	B	1.2
	2	-14.9		C	182.6
	3	0.3		E	0.6
	4	14.7			
	5	1.4			
IC503	1	1.4	Q503	B	-15.2
	2	1.4		C	-0.1
IC504	1	10.4	Q504	B	1.2
	2	2.8		C	182.6
	3	6.9		E	0.6
IC505	1	47.4	Q505	B	167.3
	2	47.2		C	40.3
	3	40.6			
	4	47.4			
	5	57.0			
IC601	1	125.5	Q507	B	-0.9
	2	0.1		C	48.1
	3	0			
	4	1.5			
	5	2.6			
	6	0			
	7	0.3			
	8	1.2			
	9	7.6			
IC650	1	141.0	Q512	G	0
	2	13.3		D	14.2
IC651	1	14.3	Q513	G	5.1
	2	13.3		D	0
	3	0.3			
	4	7.1			
IC652	3	4.3	Q515	B	8.6
	1	15.3		C	12.2
	2	14.6		E	8.4
	3	0.1			
IC653	1	4.2	Q516	B	8.7
	2	1.2		E	8.4
IC701	1	5.5	Q518	G	166.9
	2	5.1		D	48.7
	3	3.2			
	4	5.0		B	9.2
	5	-0.4		C	12.2
	6	0		E	9.0
	7	8.0			
	8	1.6		B	9.2
	9	6.4		E	9.0
	10	4.0			
	11	3.5		B	10.4
	12	3.5		E	9.9
	13	8.0			
	14	0.1		B	10.4
	15	4.2		E	9.9
	16	6.7			
	17	0.7		B	0.7
	21	6.5		D	0
	22	4.6			
	25	5.1			
	26	8.1			
	27	3.5		B	3.0
	28	3.6		C	2.5
	29	3.8			
	30	3.5		B	7.1
	31	4.4		C	20.6
	32	3.6		E	7.6
	33	4.5			
	34	0.1		B	0
	35	3.6		C	50.0
	36	0.1			
	37	3.0		B	7.0
	38	4.1		C	6.5
	39	4.3		E	7.3
	40	4.1			
	41	4.1		B	0.7
	42	4.0		C	0
IC901	1	8.1	Q653	B	0
	2	4.0		C	12.2
	3	1.7			
	4	2.7		B	0
	5	1.7		C	14.5
	6	2.5			
	7	2.8		B	3.3
	8	2.4		C	0.1
	9	3.2		B	4.3
	10	3.1		C	0
	11	2.3			
	12	1.9		B	0
	13	5.1		C	13.3
	14	2.8			
	15	4.0		B	6.5
	16	4.2		E	6.5
	17	5.1			
	18	5.0		B	6.5
	19	4.8		E	6.5
	20	-0.6			
	21	0	Q801	B	0.6
	23	5.0		C	0.1
	24	2.4			
	25	5.1	Q802	B	6.9
	26	0.1		E	6.3
	27	4.2			
	28	4.1	Q901	B	2.4
	29	0.7		E	3.0
			Q902	B	0
				C	5.1

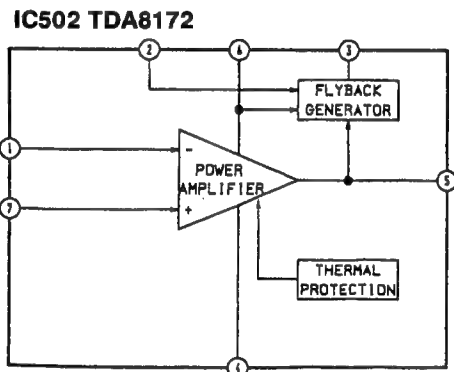
D
POWER
(REFLECTION)



● D BOARD
WAVEFORMS



● D BOARD
IC502 TDA8172



Terminal name of semiconductors in silk screen
printed circuit (*)

Device	Printed symbol	Terminal name	Circuit
① Transistor	T	Collector Base Emitter	
- Discrete semiconductor			



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.

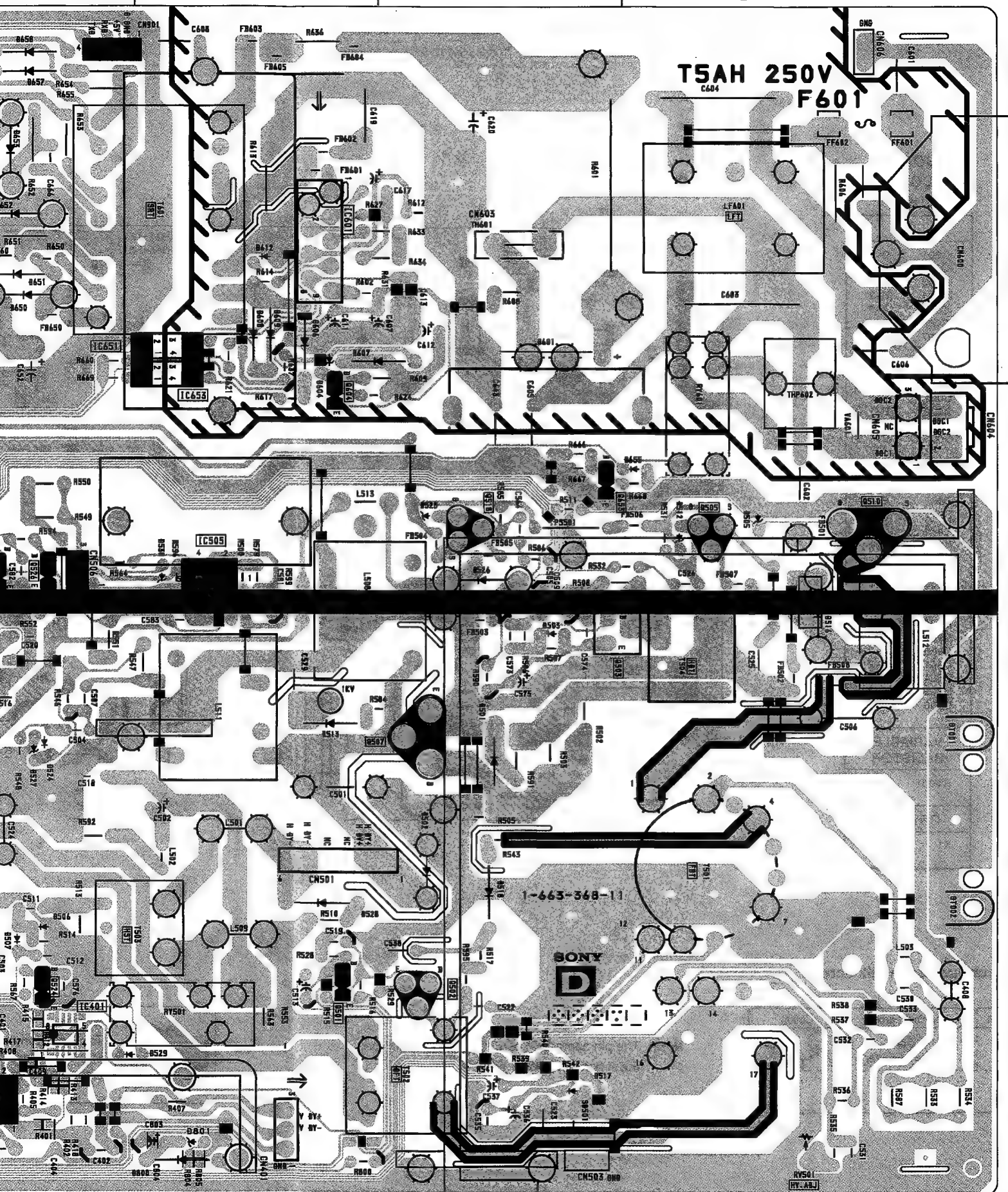
● D BOARD
SEMICONDUCTOR
LOCATION

IC	IC	IC
IC501	E-1	IC501
IC502	E-3	IC502
IC503	A-1	IC503
IC504	E-1	IC504
IC505	C-4	IC505
IC601	A-4	IC601
IC650	B-2	IC650
IC651	B-4	IC651
IC652	C-2	IC652
IC653	B-4	IC653
IC701	D-1	IC701
IC901	C-1	IC901
IC902	C-1	IC902
TRANSISTOR	TRANSISTOR	TRANSISTOR
Q501	E-4	Q501
Q502	E-5	Q502
Q503	C-5	Q503
Q505	C-6	Q505
Q507	C-5	Q507
Q510	C-6	Q510
Q511	D-2	Q511
Q512	C-3	Q512
Q513	D-2	Q513
Q515	E-2	Q515
Q516	E-1	Q516
Q518	C-5	Q518
Q519	E-2	Q519
Q520	E-2	Q520
Q523	E-1	Q523
Q524	E-3	Q524
Q525	D-4	Q525
Q526	C-3	Q526
Q604	B-4	Q604
Q605	C-3	Q605
Q651	A-2	Q651
Q652	A-2	Q652
Q653	C-5	Q653
Q655	B-3	Q655
Q656	B-2	Q656
Q657	B-2	Q657
Q658	B-2	Q658
Q703	E-2	Q703
Q704	E-1	Q704
Q801	D-2	Q801
Q802	D-2	Q802
Q803	B-1	Q803
Q804	B-1	Q804
DIODE	DIODE	DIODE
D402	E-3	D402
D403	E-3	D403
D404	E-3	D404
D405	E-2	D405
D501	C-5	D501
D502	D-5	D502
D503	C-5	D503
D505	C-6	D505
D506	D-3	D506
D507	D-3	D507
D512	C-6	D512
D513	C-4	D513
D516	C-6	D516
D517	E-5	D517
D518	D-5	D518
D524	D-3	D524
D525	C-5	D525
D526	C-5	D526
D527	D-3	D527
D528	D-4	D528
D529	E-4	D529
D530	C-4	D530
D601	B-5	D601
D604	B-4	D604
D606	B-4	D606
D607	B-4	D607
D608	B-4	D608
D609	B-4	D609
D612	B-4	D612
D650	B-3	D650
D651	B-3	D651
D652	A-3	D652
D653	A-3	D653
D654	A-3	D654
D655	B-4	D655
D657	A-3	D657
D658	A-3	D658
D659	B-2	D659
D660	B-2	D660
D701	D-1	D701
D703	E-3	D703
D704	D-1	D704
D800	E-4	D800
D801	E-1	D801
D802	E-1	D802
D803	C-2	D803
D901	B-1	D901
D902	C-1	D902
D903	B-1	D903
D904	A-1	D904
D905	A-1	D905
D906	B-2	D906
D907	B-2	D907
D908	B-1	D908
D909	B-1	D909
D910	A-1	D910
D911	A-1	D911
D913	A-1	D913
D914	B-2	D914
D915	B-2	D915
D916	B-2	D916
D917	B-1	D917
D919	B-2	D919
D920	C-1	D920
D921	A-1	D921
VARIABLE RESISTOR	VARIABLE RESISTOR	VARIABLE RESISTOR
RV501	E-6	RV501
CRYSTAL	CRYSTAL	CRYSTAL
X900	B-1	X900



[POWER
DEFLECTION]

6

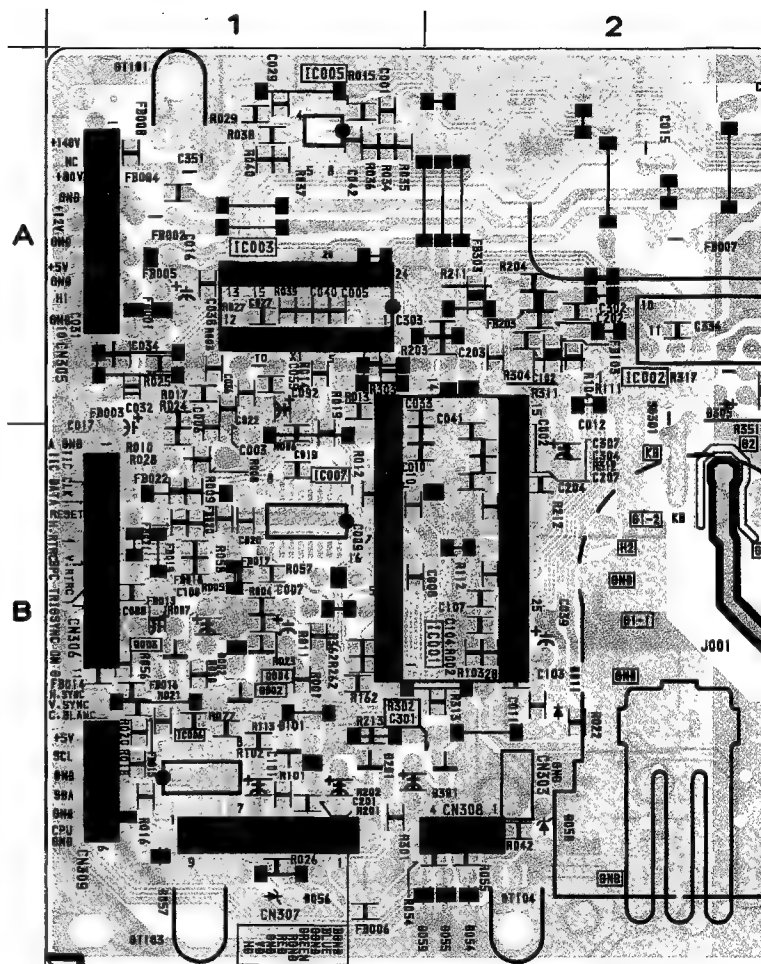




● A BOARD
SEMICONDUCTOR
LOCATION

IC	
IC001	B-2
IC002	A-2
IC003	A-1
IC004	B-3
IC005	A-1
IC006	B-1
IC007	B-1
TRANSISTOR	
Q001	B-3 *
Q002	B-1 ①
Q003	B-1 ①
Q004	B-1 ①
DIODE	
D002	B-1 *
D011	B-2 -
D014	B-3 -
D058	B-2 -
D101	B-1 -
D104	A-3 -
D105	A-3 -
D106	B-3 -
D201	B-1 -
D204	A-3 -
D205	A-3 -
D206	A-3 -
D301	B-2 -
D304	A-3 -
D305	A-2 -
D306	A-3 -
VARIABLE RESISTOR	
RV001	B-3
CRYSTAL	
X1	A-1

— A Board —



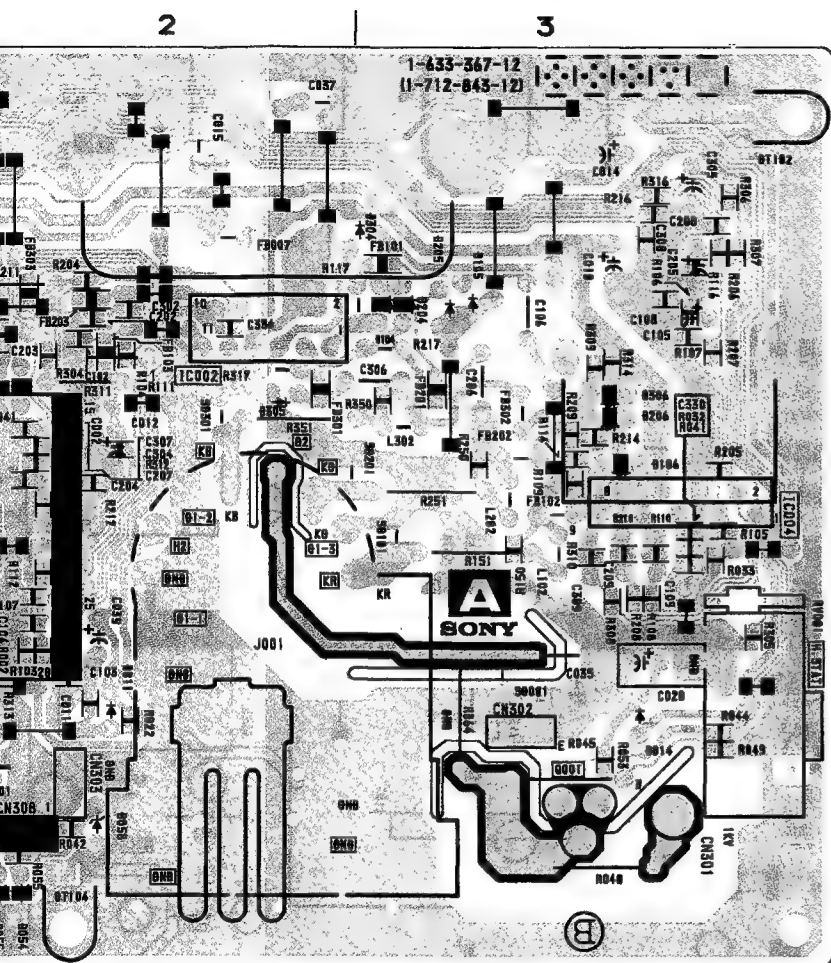
Terminal name of semiconductors in silk screen
printed circuit (*)

Device	Printed symbol	Terminal name	Circuit
① Transistor		Collector Base Emitter	
- Discrete semiconductor			

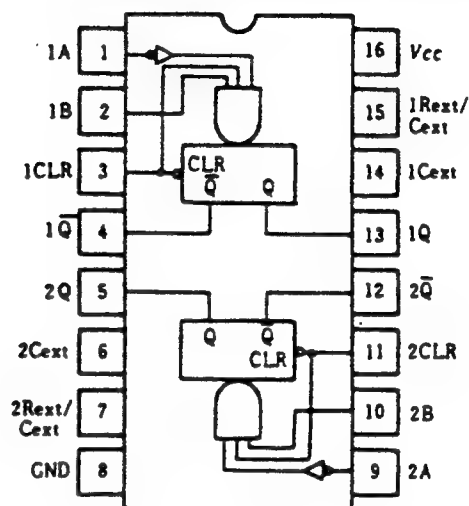
Note: The pin name "H2" of "J001" (CRT socket) on the A board is wrong, and it is "H1" in truth.

A

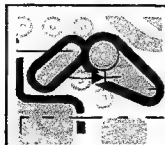
[VIDEO]



● A BOARD IC007 HD74HC123AFP

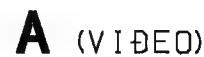


(CRT socket) on
s "H1" in truth.

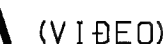
**NOTE:**

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





← **A**



← **A** board

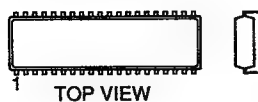
A
B
C
D
E
F
G
H
I

1

① 0.7 Vp-p (H)	⑥ 3.8 Vp-p (H)
② 4.0 Vp-p (H)	⑦ 5.8 Vp-p (8.3MHz)
③ 1.2 Vp-p (H)	⑧ 50.0 Vp-p (H)
④ 4.0 Vp-p (H)	⑨ 50.0 Vp-p (H)
⑤ 0.7 Vp-p (H)	⑩ 45.0 Vp-p (H)

5-4. SEMICONDUCTORS

HD74HC123AFP



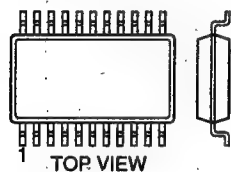
LA6500-FA



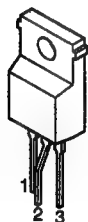
LM2283N



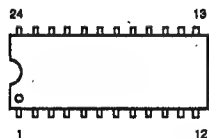
LM2903M
NJM2903M-T2
NJM4558M
μPC4558G2



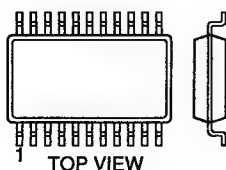
SE-140N



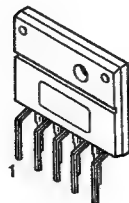
SNY425



SN74HCT04ANS



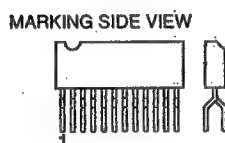
STR-S6708A



ST7272N5B1/CKO



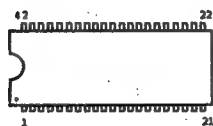
TDA6103Q/N3



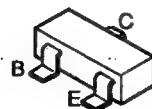
TDA8138A
TDA8172



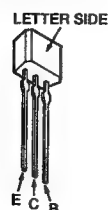
TDA9105S



DTC124EKA-T146
2SA1037K-T-146-QR
2SA1162-G
2SB709A-QRS-TX
2SD601A-Q
2SD601A-QRS-TX



DTS124ESA
2SA1175-HFE
2SA1309A-QRSTA
2SC2785-HFE
2SC3311A-QRSTA



IRF19630
IRF19630GS
2SB1094-LK
2SB1375
2SC3746
2SC5022-02
2SJ449(1)
2SJ449(2)



IRFPG50LF21
2SK2077

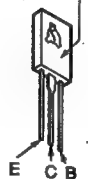


2SC2001-K2
2SC2001-LK



2SC2611

LETTER SIDE



2SC3209LK
2SD774-3
2SD774-34



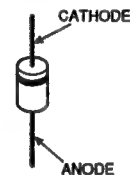
2SD1640Q,R



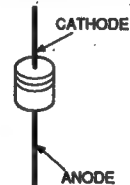
2SK1307
2SK1904



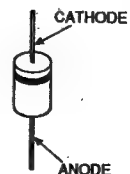
EGP10D
RGP10DG23
RGP10JPKG23
RH-1A



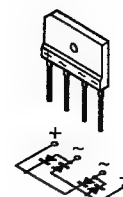
EGP10GPKG23
MTZJ-T-77-10B
MTZJ-T-77-12B
MTZJ-T-77-20C
MTZJ-T-77-5.1B
MTZJ-T-77-5.6B
RD10ES-B2
RD12ES-B2
RD20ES-B2
RD5.1ES-B2
RD5.6ES-B2
RD7.5ES-B2
1SS119-25
1SS120



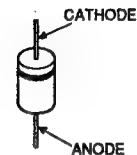
EGP20DL-6349
EL1Z
EL1Z-V1
ERB91-02
GP08D
GP08DPKG23
HSS82
RGP02-20EL-6394
RGP10GPKG23
UF3ML-6505
UG4DL-6506
3DL41A



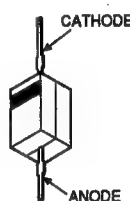
GBU4JL-6088



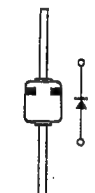
SB340



SB340L-6489



1SS120TD



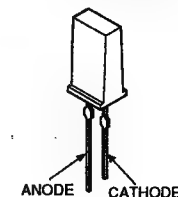
1SS226



5TUZ52



SEL1422G-C,D
SEL1922D-C
SG232D-658
SY432W-M-658



SECTION 6

EXPLODED VIEWS

- 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.

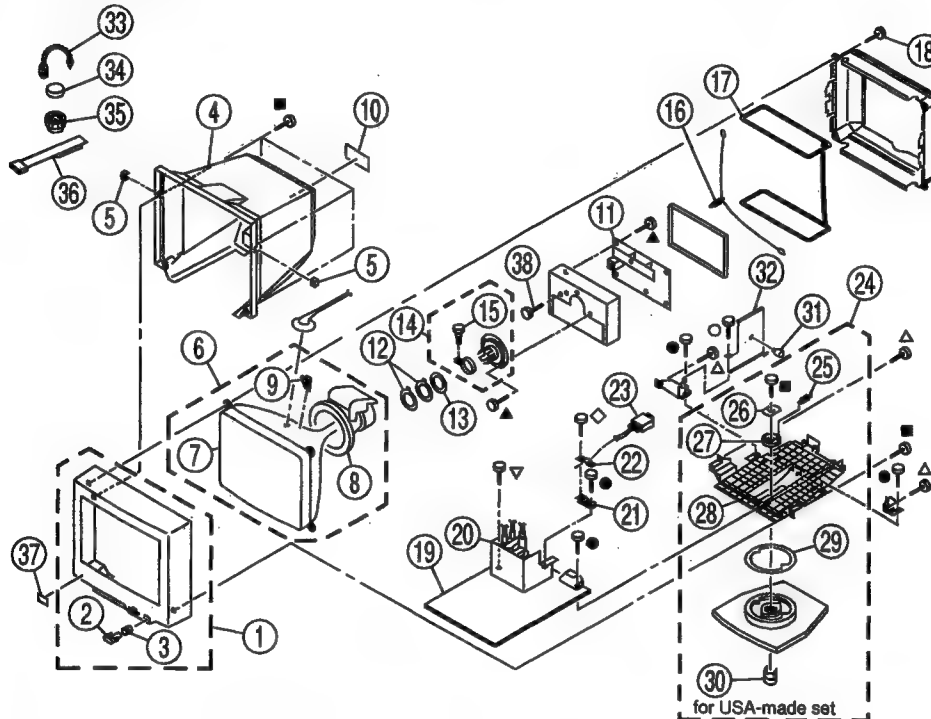
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

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

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

6-1-1. CHASSIS (CPD-200SF)

● 7-685-648-79	+BVTP 3X12	Δ 7-682-562-04	+BVTT 4X10
▲ 7-685-646-79	+BVTP 3X8	∇ 7-685-650-79	+BVTP 3X16
■ 7-685-663-71	+BVTP 4X16	$\diamond$ 7-685-659-71	+BVTP 4X8
○ 7-682-548-04	+BVTT 3X8		



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
1	X-4033-961-1	BEZEL ASSY [for Japan-made set]	2,3	16	*4-047-316-01	SPRING, TENSION	
	X-4034-061-1	BEZEL ASSY [for USA-made set]	2,3	17	Δ 1-409-975-12	COIL, DEMAGNETIZATION	
2	4-046-410-21	BUTTON, POWER		18	4-365-808-01	SCREW (5), TAPPING	
3	3-571-801-01	SPRING, COMPRESSION		19	*8-933-208-00	D BOARD, COMPLETE	
4	4-046-427-01	CABINET		20	Δ X-4034-327-1	TRANSFORMER ASSY, FLYBACK	
						(NX-4111/J1E4)	
5	4-046-903-01	COVER, SCREW		21	*4-045-130-01	BRACKET, CABLE	
6	Δ 8-738-709-92	ITC ASSY (17SASK R2) (US/CN)	7-9	22	*4-045-131-01	STOPPER, CABLE	
	Δ 8-738-709-91	ITC ASSY (17SASK R3) (ES)	7-9	23	1-776-975-31	CABEL ASSY (15P DSUB CONNECTOR)	
	Δ 8-738-713-91	ITC ASSY (17SASK RS1) (AUS)	7-9	24	X-4032-232-1	STAND ASSY, SWIVEL	25-30
7	Δ 8-738-709-05	PICTURE TUBE 17SASK (US/CN, ES)		25	4-046-901-01	SPRING, TENSION	
	Δ 8-738-713-05	PICTURE TUBE 17SASK (AUS)					
8	Δ 8-451-478-71	DEFLECTION YOKE Y17SAH5-M7		26	*4-043-646-01	HOLDER, STAND	
9	4-040-897-01	SPACER, DY [for USA-made set]		27	4-041-623-01	STOPPER (A)	
	4-050-492-01	SPACER, DY [for Japan-made set]		28	4-046-426-01	COVER, BOTTOM	
10	*4-056-261-01	LABEL, INFORMATION		29	*4-041-625-01	RING, TILT SWIVEL [for Japan-made set]	
		[ES for Japan-made set, U/C for Japan-made set]			*4-041-625-21	RING, TILT SWIVEL [for USA-made set]	
	*4-056-261-11	LABEL, INFORMATION		30	*4-041-621-21	STOPPER (B) [for USA-made set]	
		[AUS for Japan-made set]		31	*3-691-950-01	SPACER, P.C.B	
	*4-056-265-01	LABEL, INFORMATION		32	*4-046-894-02	SHIELD, FBT	
		[ES for USA-made set, U/C for USA-made set]		33	4-308-870-00	CLIP, LEAD WIRE	
	*4-056-265-11	LABEL, INFORMATION		34	1-452-032-00	MAGNET, DISC ; 10mm ϕ	
		[AUS for USA-made set]					
11	*8-933-199-00	A BOARD, COMPLETE		35	1-452-094-00	MAGNET, ROTATABLE DISK ; 15mm ϕ	
12	1-452-369-41	MAGNET, RING (6P)		36	X-4030-584-1	PERMALLOY ASSY, CORRECTION	
13	4-046-898-01	SPACER, MG		37	*4-045-471-01	LABEL, ENERGY STAR	
14	X-4033-948-1	HOLDER ASSY, PWB	15	38	4-382-854-01	SCREW (M3X8), P, SW(+)	
15	4-041-627-01	SCREW (M4X20), HEXAGON HEAD					

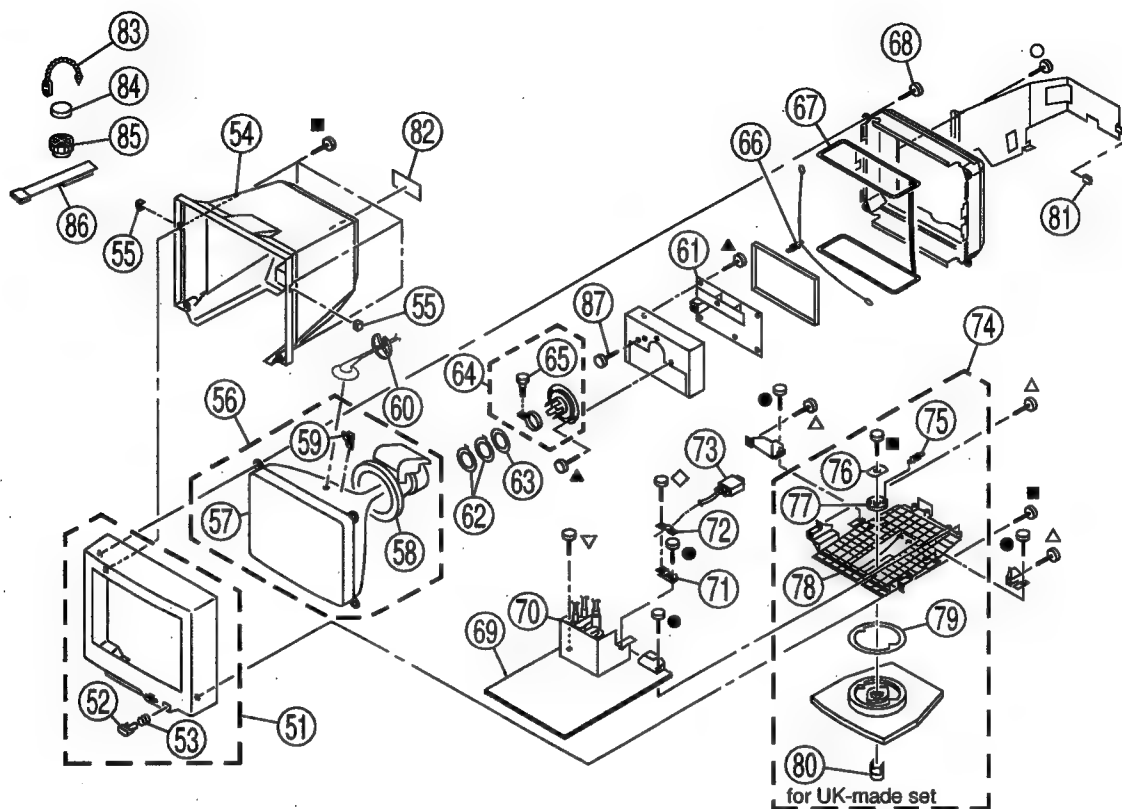
Les composants identifiés par un triangle et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

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

6-1-2. CHASSIS (CPD-200SFT)

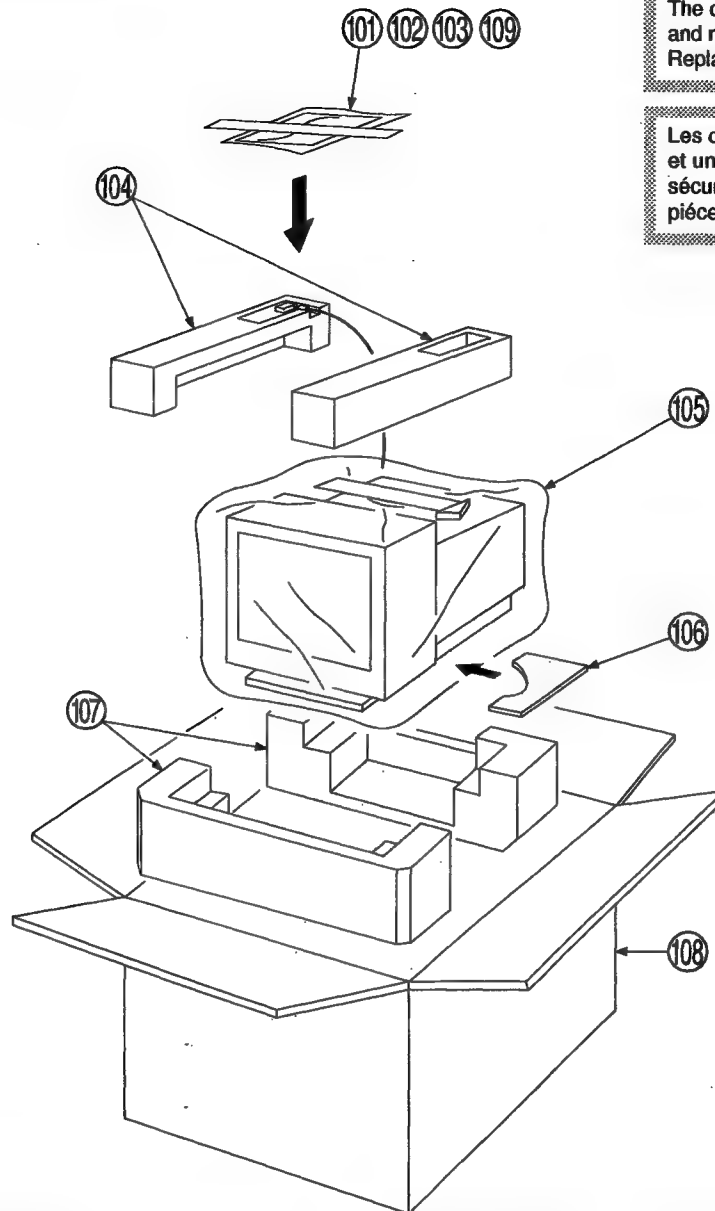
- 7-685-648-79 +BVTP 3X12
- ▲ 7-685-646-79 +BVTP 3X8
- 7-685-663-71 +BVTP 4X16
- 7-682-548-04 +BVTT 3X8

- Δ 7-682-562-04 +BVTT 4X10
- ∇ 7-685-650-79 +BVTP 3X16
- $\diamond$ 7-685-659-71 +BVTP 4X8



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
51	X-4033-961-1	BEZEL ASSY [for Japan-made set]	52,53	71	*4-045-130-01	BRACKET, CABLE [for Japan-made set]	
	X-4034-057-1	BEZEL ASSY [for UK-made set]	52,53		*4-045-130-21	BRACKET, CABLE [for UK-made set]	
52	4-046-410-21	BUTTON, POWER [for Japan-made set]		72	*4-045-131-01	STOPPER, CABLE [for Japan-made set]	
	4-046-410-31	BUTTON, POWER [for UK-made set]			*4-045-131-11	STOPPER, CABLE [for UK-made set]	
53	3-571-801-01	SPRING, COMPRESSION		73	1-776-975-31	CABEL ASSY (15P DSUB CONNECTOR)	
54	4-046-427-01	CABINET		74	X-4032-232-1	STAND ASSY, SWIVEL	75-80
55	4-046-903-01	COVER, SCREW [for Japan-made set]		75	4-046-901-01	SPRING, TENSION [for Japan-made set]	
	4-046-903-11	COVER, SCREW [for UK-made set]			4-052-618-01	SPRING, EXTENSION [for UK-made set]	
56	Δ 8-738-605-95	ITC ASSY (17SAFK R6) (AEP, UK)	57,59	76	*4-043-646-01	HOLDER, STAND	
57	Δ 8-738-605-05	PICTURE TUBE (17SAFK) (AEP, UK)		77	4-041-623-01	STOPPER (A)	
58	Δ 8-451-478-71	DEFLECTION YOKE Y (17SAH5 M7)		78	4-046-426-01	COVER, BOTTOM	
59	4-050-492-01	SPACER, DY		79	*4-041-625-01	RING, TILT SWIVEL	
60	*3-704-372-01	HOLDER, HV CABEL		80	4-041-621-01	STOPPER (B) [for UK-made set]	
61	*8-933-199-00	A BOARD, COMPLETE		81	4-056-713-01	HOLDER, SIDE	
62	1-452-369-41	MAGNET, RING (6P)		82	*4-056-180-01	LABEL, INFORMATION	
63	4-046-898-01	SPACER, MG				[for Japan-made set]	
64	X-4033-948-1	HOLDER ASSY, PWB	65		*4-056-245-01	LABEL, INFORMATION [for UK-made set]	
65	4-041-627-01	SCREW (M4X20), HEXAGON HEAD		83	4-308-870-00	CLIP, LEAD WIRE	
66	*4-047-316-01	SPRING, TENSION		84	1-452-032-00	MAGNET, DISC ; 10mm ϕ	
67	Δ 1-409-975-12	COIL, DEMAGNETIZATION		85	1-452-094-00	MAGNET, ROTATABLE DISK; 15mm ϕ	
68	4-365-808-01	SCREW (5), TAPPING		86	X-4030-584-1	PERMALLOY ASSY, CORRECTION	
69	*8-933-208-00	D BOARD, COMPLETE		87	7-382-854-01	SCREW (M3X8), P, SW(+)	
70	Δ X-4034-327-1	TRANSFORMER ASSY, FLYBACK	(NX-4111/J1E4)				

6-2. PACKING MATERIALS



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

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

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
101	Δ 1-558-481-12	CORD, POWER (10A/125V) [CPD-200SF AUS]		104	* 4-046-461-01	CUSHION (UPPER) (ASSY)	
	Δ 1-765-717-11	CORD SET, POWER (10A/250V) [CPD-200SF ES/CPD-200SFT AEP]		105	* 4-041-927-01	BAG, POLYETHYLENE [CPD-200SFT for UK-made set]	
	Δ 1-765-718-11	CORD SET, POWER (10A/125V) [CPD-200SF U/C]			* 4-041-927-11	BAG, POLYETHYLENE [except CPD-200SFT for UK-made set]	
	Δ 1-775-706-11	CORD SET, POWER (10A/250V) [CPD-200SFT UK]		106	* 4-046-460-01	PAT, TILT FIXED	
				107	* 4-046-462-01	CUSHION (LOWER) (ASSY)	
102	1-774-648-21	ADAPTOR (for VGA) [CPD-200SF ES, AUS/CPD-200SFT]		108	* 4-055-191-01	INDIVIDUAL CARTON [CPD-200SF for Japan-made set]	
	1-573-983-31	ADAPTOR (for MAC) (CPD-200SF)			* 4-055-899-01	INDIVIDUAL CARTON [CPD-200SFT for Japan-made set]	
103	3-858-024-11	MANUAL, INSTRUCTION [CPD-200SF for USA-made set]			* 4-056-175-01	INDIVIDUAL CARTON [CPD-200SF for USA-made set]	
	3-858-024-21	MANUAL, INSTRUCTION [CPD-200SFT for UK-made set]			* 4-056-176-01	INDIVIDUAL CARTON [CPD-200SFT for UK-made set]	
	3-858-024-41	MANUAL, INSTRUCTION [CPD-200SFT for Japan-made set]		109	4-056-722-01	Windows 95 Monitor Information Disk	
	3-858-024-31	MANUAL, INSTRUCTION [CPD-200SF for Japan-made set]					



SECTION 7

ELECTRICAL PARTS LIST

NOTE:

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

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

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

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

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

RESISTORS

- All resistors are in ohms
- F : nonflammable

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

CAPACITORSMF: μ F**COILS**UH: μ H

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
* 8-933-199-00 A BOARD, COMPLETE *****				C055	1-163-231-11	CERAMIC CHIP 15pF	5% 50V
4-382-854-01 SCREW (M3X8), P, SW (+)				C088	1-126-933-11	ELECT 100MF	20% 16V
<CAPACITOR>				C092	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C001	1-163-125-00	CERAMIC CHIP 220pF	5% 50V	C100	1-126-967-11	ELECT 47MF	20% 16V
C002	1-104-653-11	ELECT 220MF	20% 16V	C101	1-126-157-11	ELECT 10MF	20% 16V
C003	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C102	1-163-087-00	CERAMIC CHIP 4pF	0.25pF 50V
C004	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C103	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C005	1-163-243-11	CERAMIC CHIP 47pF	5% 50V	C104	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C006	1-163-243-11	CERAMIC CHIP 47pF	5% 50V	C105	1-124-903-11	ELECT 1MF	20% 50V
C007	1-124-589-11	ELECT 47MF	20% 16V	C106	1-117-450-11	CAPACITOR 0.047MF	10% 250V
C008	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C107	1-163-125-00	CERAMIC CHIP 220pF	5% 50V
C009	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C108	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C010	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C201	1-126-157-11	ELECT 10MF	20% 16V
C011	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C202	1-163-087-00	CERAMIC CHIP 4pF	0.25pF 50V
C012	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C203	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C013	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V	C204	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C014	1-128-562-11	ELECT 47MF	20% 100V	C205	1-124-903-11	ELECT 1MF	20% 50V
C015	1-106-220-00	MYLAR 0.1MF	10% 100V	C206	1-117-450-11	CAPACITOR 0.047MF	10% 250V
C016	1-126-933-11	ELECT 100MF	20% 16V	C207	1-163-125-00	CERAMIC CHIP 220pF	5% 50V
C017	1-126-967-11	ELECT 47MF	20% 16V	C208	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C018	1-107-961-91	ELECT 10MF	20% 250V	C209	1-162-117-00	CERAMIC 100pF	10% 500V
C019	1-163-243-11	CERAMIC CHIP 47pF	5% 50V	C301	1-126-157-11	ELECT 10MF	20% 16V
C020	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C302	1-163-087-00	CERAMIC CHIP 4pF	0.25pF 50V
C022	1-126-933-11	ELECT 100MF	20% 16V	C303	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C027	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C304	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C028	1-126-933-11	ELECT 100MF	20% 16V	C305	1-124-903-11	ELECT 1MF	20% 50V
C029	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C306	1-117-450-11	CAPACITOR 0.047MF	10% 250V
C031	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C307	1-163-125-00	CERAMIC CHIP 220pF	5% 50V
C032	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C308	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C033	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C309	1-162-117-00	CERAMIC 100pF	10% 500V
C034	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C330	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C035	1-162-134-11	CERAMIC 470pF	10% 2KV	C334	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C036	1-163-231-11	CERAMIC CHIP 15pF	5% 50V	C351	1-137-528-11	FILM 0.1MF	10% 250V
C037	1-106-367-00	MYLAR 0.01MF	10% 100V	<CONNECTOR>			
C038	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CN301*	1-506-108-41	PIN, CONNECTOR (TERMINAL PIN)	
C039	1-126-933-11	ELECT 100MF	20% 16V	CN302	1-695-915-11	TAB (CONTACT)	
C040	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CN303	1-695-915-11	TAB (CONTACT)	
C041	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CN305*	1-564-525-11	PLUG, CONNECTOR	10P
C042	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CN306*	1-564-526-11	PLUG, CONNECTOR	11P
				CN307*	1-564-512-11	PLUG, CONNECTOR	9P
				CN308*	1-564-507-11	PLUG, CONNECTOR	4P

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
	CN309*	1-564-521-11 PLUG, CONNECTOR	6P			<TERMINAL>	
		<DIODE>				GT101* 1-537-738-21 TERMINAL, EARTH	
						GT102* 1-537-738-21 TERMINAL, EARTH	
						GT103* 1-537-738-21 TERMINAL, EARTH	
						GT104* 1-537-738-21 TERMINAL, EARTH	
						<IC>	
						IC001 8-759-358-83 IC LM2283N	
						IC002 8-759-435-33 IC LM2405T	
						IC003 8-759-399-76 IC SNY425	
						IC004 8-759-434-40 IC TDA6103Q/N3,112	
						IC005 8-759-100-96 IC UPC4558G2	
						IC006 8-759-269-09 IC SN74HCT04ANS	
						IC007 8-759-098-07 IC HD74HC123AFP-T1	
						<JACK>	
						J001 Δ 1-251-116-12 SOCKET, PICTURE TUBE	
						<TRANSISTOR>	
						Q001 8-729-032-61 TRANSISTOR 2SC5022-02	
						Q002 8-729-216-22 TRANSISTOR 2SA1162-G	
						Q003 8-729-216-22 TRANSISTOR 2SA1162-G	
						Q004 8-729-216-22 TRANSISTOR 2SA1162-G	
						<RESISTOR>	
						R001 1-216-049-91 METAL GLAZE 1K 5% 1/10W	
						R002 1-216-659-11 METAL CHIP 2.2K 0.50% 1/10W	
						R003 1-216-097-91 METAL GLAZE 100K 5% 1/10W	
						R004 1-216-085-00 METAL GLAZE 33K 5% 1/10W	
						R005 1-216-049-91 METAL GLAZE 1K 5% 1/10W	
						R006 1-216-025-91 METAL GLAZE 100 5% 1/10W	
						R007 1-216-295-91 CONDUCTOR, CHIP	
						R008 1-216-057-00 METAL GLAZE 2.2K 5% 1/10W	
						R009 1-216-025-91 METAL GLAZE 100 5% 1/10W	
						R010 1-216-025-91 METAL GLAZE 100 5% 1/10W	
						R011 1-216-085-00 METAL GLAZE 33K 5% 1/10W	
						R012 1-216-025-91 METAL GLAZE 100 5% 1/10W	
						R013 1-216-025-91 METAL GLAZE 100 5% 1/10W	
						R014 1-216-025-91 METAL GLAZE 100 5% 1/10W	
						R015 1-216-121-91 METAL GLAZE 1M 5% 1/10W	
						R016 1-216-073-00 METAL GLAZE 10K 5% 1/10W	
						R017 1-216-099-00 METAL GLAZE 120K 5% 1/10W	
						R018 1-216-025-91 METAL GLAZE 100 5% 1/10W	
						R019 1-216-025-91 METAL GLAZE 100 5% 1/10W	
						R020 1-216-025-91 METAL GLAZE 100 5% 1/10W	
						R021 1-216-025-91 METAL GLAZE 100 5% 1/10W	
						R022 1-216-097-91 METAL GLAZE 100K 5% 1/10W	
						R023 1-216-049-91 METAL GLAZE 1K 5% 1/10W	
						R024 1-216-065-00 METAL GLAZE 4.7K 5% 1/10W	
						R025 1-216-065-00 METAL GLAZE 4.7K 5% 1/10W	
						R026 1-216-073-00 METAL GLAZE 10K 5% 1/10W	
						R027 1-216-097-91 METAL GLAZE 100K 5% 1/10W	
						<FERRITE BEAD>	
						FB001 1-412-911-11 INDUCTOR, FERRITE BEAD	
						FB002 1-412-911-11 INDUCTOR, FERRITE BEAD	
						FB003 1-412-911-11 INDUCTOR, FERRITE BEAD	
						FB004 1-216-295-91 CONDUCTOR, CHIP	
						FB005 1-412-911-11 INDUCTOR, FERRITE BEAD	
						FB006 1-216-295-91 CONDUCTOR, CHIP	
						FB007 1-412-911-11 INDUCTOR, FERRITE BEAD	
						FB008 1-414-231-21 INDUCTOR, FERRITE BEAD	
						FB013 1-414-231-21 INDUCTOR, FERRITE BEAD	
						FB014 1-414-231-21 INDUCTOR, FERRITE BEAD	
						FB015 1-414-231-21 INDUCTOR, FERRITE BEAD	
						FB016 1-414-231-21 INDUCTOR, FERRITE BEAD	
						FB017 1-414-231-21 INDUCTOR, FERRITE BEAD	
						FB018 1-414-231-21 INDUCTOR, FERRITE BEAD	
						FB019 1-414-231-21 INDUCTOR, FERRITE BEAD	
						FB020 1-414-231-21 INDUCTOR, FERRITE BEAD	
						FB021 1-414-231-21 INDUCTOR, FERRITE BEAD	
						FB022 1-414-231-21 INDUCTOR, FERRITE BEAD	
						FB101 1-500-104-21 BEAD, FERRITE (SMD)	
						FB102 1-412-911-11 INDUCTOR, FERRITE BEAD	
						FB103 1-500-104-21 BEAD, FERRITE (SMD)	
						FB201 1-500-104-21 BEAD, FERRITE (SMD)	
						FB202 1-412-911-11 INDUCTOR, FERRITE BEAD	
						FB203 1-500-104-21 BEAD, FERRITE (SMD)	
						FB301 1-500-104-21 BEAD, FERRITE (SMD)	
						FB302 1-412-911-11 INDUCTOR, FERRITE BEAD	
						FB303 1-500-104-21 BEAD, FERRITE (SMD)	

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
	4-051-627-01	SHEET, INSULATING (IC505)		C553	1-163-038-91	CERAMIC CHIP 0.1MF	25V
	4-056-129-01	HOLDER, IC (IC601)		C554	1-137-399-11	FILM 0.1MF	5% 50V
	4-389-025-01	SCREW (M4) (EXT TOOTH WASHER)		C558	1-102-002-00	CERAMIC 680pF	10% 500V
	7-685-647-79	SCREW +BVTP 3X10 TYPE2		C560	1-137-375-11	FILM 0.068MF	5% 50V
				C561	1-124-903-11	ELECT 1MF	20% 50V
	<CAPACITOR>			C562	1-126-964-11	ELECT 10MF	20% 50V
C401	1-128-528-11	ELECT 470MF	20% 25V	C563	1-126-964-11	ELECT 10MF	20% 50V
C402	1-102-112-00	CERAMIC 330pF	10% 50V	C564	1-106-375-12	MYLAR 0.022MF	200V
C403	1-137-399-11	FILM 0.1MF	5% 50V	C566	1-126-964-11	ELECT 10MF	20% 50V
C404	1-106-228-00	MYLAR 0.22MF	10% 100V	C569	1-137-370-11	FILM 0.01MF	5% 50V
C405	1-107-894-11	ELECT 220MF	20% 35V	C570	1-137-370-11	FILM 0.01MF	5% 50V
C406	1-126-105-11	ELECT 1000MF	20% 25V	C571	1-137-370-11	FILM 0.01MF	5% 50V
C407	1-101-006-00	CERAMIC 0.047MF	50V	C572	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C408	1-136-105-00	FILM 0.33MF	5% 200V	C573	1-137-372-11	FILM 0.022MF	5% 50V
C410	1-108-377-91	FILM 0.01MF	10% 100V	C574	1-137-368-11	FILM 0.0047MF	5% 50V
C501	1-117-413-11	CAPACITOR 0.006MF	3% 1.8KV	C575	1-128-528-11	ELECT 470MF	20% 25V
C502	1-107-961-91	ELECT 10MF	20% 250V	C576	1-107-714-11	ELECT 10MF	20% 16V
C503	1-107-649-11	ELECT 2.2MF	20% 250V	C578	1-117-411-11	CAPACITOR 0.16MF	5% 250V
C504	1-162-815-11	CERAMIC 47pF	5% 500V	C579	1-117-412-11	CAPACITOR 0.24MF	5% 250V
C505	1-136-173-00	FILM 0.47MF	5% 50V	C580	1-137-370-11	FILM 0.01MF	5% 50V
C506	1-113-714-11	FILM 2000pF	3% 2KV	C581	1-136-173-00	FILM 0.47MF	5% 50V
C507	1-102-157-00	CERAMIC 560pF	10% 500V	C582	1-137-399-11	FILM 0.1MF	5% 50V
C508	1-104-664-11	ELECT 47MF	20% 25V	C584	1-137-370-11	FILM 0.01MF	5% 50V
C509	1-137-368-11	FILM 0.0047MF	5% 50V	C601 Δ	1-113-900-51	CERAMIC 470pF	10% 250V
C511	1-136-244-11	FILM 0.1MF	5% 50V	C602 Δ	1-113-912-51	CERAMIC 0.0047MF	20% 250V
C512	1-137-370-11	FILM 0.01MF	5% 50V	C603 Δ	1-104-708-51	FILM 0.47MF	20% 250V
C513	1-126-964-11	ELECT 10MF	20% 50V	C604 Δ	1-104-708-51	FILM 0.47MF	20% 250V
C515	1-115-509-11	FILM 0.068MF	5% 250V	C605 Δ	1-113-912-51	CERAMIC 0.0047MF	20% 250V
C516	1-115-512-11	FILM 0.15MF	5% 250	C606 Δ	1-113-900-51	CERAMIC 470pF	10% 250V
C517	1-117-451-81	CAPACITOR 0.43MF	5% 250V	C607	1-126-968-11	ELECT 100MF	20% 50V
C518	1-115-524-11	FILM 1.5MF	5% 250V	C608	1-113-912-11	CERAMIC 0.0047MF	20% 250V
C519	1-137-370-11	FILM 0.01MF	5% 50V	C611	1-104-666-11	ELECT 220MF	20% 25V
C522	1-102-030-00	CERAMIC 330pF	10% 500V	C612	1-126-971-11	ELECT 470MF	20% 50V
C523	1-109-879-11	CERAMIC 22pF	5% 2KV	C613	1-102-074-00	CERAMIC 0.001MF	10% 50V
C524	1-136-749-11	FILM 0.36MF	5% 400V	C617	1-126-925-11	ELECT 470MF	20% 10V
C525	1-136-105-00	FILM 0.33MF	5% 200V	C619	1-136-619-11	FILM 0.0016MF	3% 2KV
C526	1-106-375-12	MYLAR 0.022MF	200V	C643	1-113-912-11	CERAMIC 0.0047MF	20% 250V
C529	1-115-349-51	CERAMIC 0.01MF	2KV	C652	1-125-700-11	ELECT 220MF	20% 200V
C530	1-137-368-11	FILM 0.0047MF	5% 50V	C653	1-107-936-11	ELECT 470MF	20% 100V
C531	1-137-399-11	FILM 0.1MF	5% 50V	C654	1-107-899-11	ELECT 3300MF	20% 35V
C532	1-137-370-11	FILM 0.01MF	5% 50V	C655	1-107-899-11	ELECT 3300MF	20% 35V
C533	1-136-177-00	FILM 1MF	5% 50V	C656	1-126-105-11	ELECT 1000MF	20% 25V
C535	1-137-399-11	FILM 0.1MF	5% 50V	C657	1-107-956-11	ELECT 220MF	20% 200V
C536	1-126-965-11	ELECT 22MF	20% 50V	C658	1-107-896-11	ELECT 470MF	20% 35V
C537	1-124-903-11	ELECT 1.0MF	20% 50V	C659	1-128-526-11	ELECT 100MF	20% 25V
C538	1-136-203-11	FILM 0.01MF	5% 630V	C661	1-126-971-11	ELECT 470MF	20% 50V
C543	1-102-106-00	CERAMIC 100pF	10% 50V	C662	1-126-943-11	ELECT 2200MF	20% 25V
C544	1-137-366-11	FILM 0.0022MF	5% 50V	C663	1-128-526-11	ELECT 100MF	20% 25V
C545	1-137-366-11	FILM 0.0022MF	5% 50V	C701	1-137-370-11	FILM 0.01MF	5% 50V
C546	1-137-366-11	FILM 0.0022MF	5% 50V	C702	1-126-935-11	ELECT 470MF	20% 16V
C547	1-163-005-11	CERAMIC CHIP 470pF	10% 50V	C703	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C548	1-137-368-11	FILM 0.0047MF	5% 50V	C704	1-126-935-11	ELECT 470MF	20% 16V
C549	1-117-411-11	CAPACITOR 0.16MF	5% 250V	C705	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C550	1-137-364-11	FILM 0.001MF	5% 50V	C706	1-124-925-11	ELECT 2.2MF	20% 50V
C551	1-163-251-11	CERAMIC CHIP 100pF	5% 50V	C707	1-137-372-11	FILM 0.022MF	5% 50V
C552	1-126-952-11	ELECT 1000MF	20% 16V	C708	1-163-243-11	CERAMIC CHIP 47pF	5% 50V



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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C709	1-124-903-11	ELECT	1MF 20% 50V	<CONNECTOR>			
C710	1-137-399-11	FILM	0.1MF 5% 50V	CN401*	1-580-837-11	PIN, CONNECTOR (PC BOARD) 3P	
C711	1-137-399-11	FILM	0.1MF 5% 50V	CN501*	1-778-903-11	PIN, CONNECTOR (PC BOARD) 6P	
C712	1-136-495-11	FILM	0.068MF 5% 50V	CN503	1-695-915-11	TAB (CONTACT)	
C714	1-137-399-11	FILM	0.1MF 5% 50V	CN600/	1-251-444-11	INLET, AC	
C715	1-137-366-11	FILM	0.0022MF 5% 50V	CN601*	1-564-513-11	PLUG, CONNECTOR 10P	
C716	1-124-768-11	ELECT	4.7MF 20% 35V	CN603*	1-506-371-00	PIN, CONNECTOR 2P	
C717	1-136-169-00	FILM	0.22MF 5% 50V	CN605	1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P	
C718	1-136-169-00	FILM	0.22MF 5% 50V	CN901*	1-508-879-11	BASE POST	
C719	1-163-038-91	CERAMIC CHIP	0.1MF 25V	CN902*	1-564-514-11	PLUG, CONNECTOR 11P	
C720	1-137-399-11	FILM	0.1MF 5% 50V	CN903*	1-564-509-11	PLUG, CONNECTOR 6P	
C721	1-126-935-11	ELECT	470MF 20% 16V	<DIODE>			
C722	1-137-370-11	FILM	0.01MF 5% 50V	D402	8-719-979-58	DIODE EGP10D	
C723	1-102-112-00	CERAMIC	330pF 10% 50V	D403	8-719-911-19	DIODE 1SS119-25	
C724	1-136-173-00	FILM	0.47MF 5% 50V	D404	8-719-908-03	DIODE GP08D	
C725	1-136-173-00	FILM	0.47MF 5% 50V	D405	8-719-908-03	DIODE GP08D	
C728	1-124-768-11	ELECT	4.7MF 20% 35V	D501	8-719-975-77	DIODE SB340	
C729	1-126-963-11	ELECT	4.7MF 20% 50V	D502	8-719-049-12	DIODE 5TUZ52	
C730	1-164-004-11	CERAMIC CHIP	0.1MF 25V		4-382-854-01	SCREW (M3X8), P, SW (+) ; D502	
C731	1-163-006-11	CERAMIC CHIP	560pF 10% 50V	D503	8-719-911-19	DIODE 1SS119-25	
C732	1-126-935-11	ELECT	470MF 20% 16V	D505	8-719-110-31	ZENER DIODE RD12ESB2	
C803	1-126-965-11	ELECT	22MF 20% 50V	D506	8-719-939-79	DIODE GMA01-BT	
C804	1-164-004-11	CERAMIC CHIP	0.1MF 25V	D507	8-719-939-79	DIODE GMA01-BT	
C806	1-126-964-11	ELECT	10MF 20% 50V	D512	8-719-110-31	ZENER DIODE RD12ESB2	
C807	1-104-663-11	ELECT	33MF 20% 25V	D513	8-719-018-82	DIODE RGP02-20EL-6394	
C808	1-104-663-11	ELECT	33MF 20% 25V	D516	8-719-051-97	DIODE 3DL41A(LC6-15)	
C809	1-163-038-91	CERAMIC CHIP	0.1MF 25V	D517	8-719-911-19	DIODE 1SS119-25	
C901	1-163-038-91	CERAMIC CHIP	0.1MF 25V	D518	8-719-947-06	DIODE RGP10JPKG23	
C902	1-163-038-91	CERAMIC CHIP	0.1MF 25V	D524	8-719-970-83	DIODE HSS82	
C903	1-102-112-00	CERAMIC	330pF 10% 50V	D525	8-719-110-31	ZENER DIODE RD12ESB2	
C904	1-163-038-91	CERAMIC CHIP	0.1MF 25V	D526	8-719-051-97	DIODE 3DL41A(LC6-15)	
C908	1-163-038-91	CERAMIC CHIP	0.1MF 25V	D527	8-719-110-31	ZENER DIODE RD12ESB2	
C909	1-124-925-11	ELECT	2.2MF 20% 50V	D528	8-719-941-74	DIODE ERB91-02	
C910	1-124-925-11	ELECT	2.2MF 20% 50V	D529	8-719-911-19	DIODE 1SS119-25	
C911	1-124-925-11	ELECT	2.2MF 20% 50V	D530	8-719-109-85	ZENER DIODE RD5.1ESB2	
C912	1-124-925-11	ELECT	2.2MF 20% 50V	D601	8-719-025-88	DIODE GBU4JL-6088	
C913	1-124-925-11	ELECT	2.2MF 20% 50V		4-382-854-01	SCREW (M3X8), P, SW (+) ; D601	
C914	1-124-925-11	ELECT	2.2MF 20% 50V	D604	8-719-110-02	ZENER DIODE RD7.5ESB1	
C915	1-163-038-91	CERAMIC CHIP	0.1MF 25V	D606	8-719-302-43	DIODE EL1Z	
C916	1-163-038-91	CERAMIC CHIP	0.1MF 25V	D607	8-719-302-43	DIODE EL1Z	
C917	1-163-038-91	CERAMIC CHIP	0.1MF 25V	D608	8-719-300-76	DIODE RH-1A	
C918	1-124-903-11	ELECT	1MF 20% 50V	D609	8-719-300-76	DIODE RH-1A	
C919	1-163-231-11	CERAMIC CHIP	15pF 5% 50V	D612	8-719-970-83	DIODE HSS82	
C920	1-163-231-11	CERAMIC CHIP	15pF 5% 50V	D650	8-719-048-62	DIODE UF3ML-6505	
C921	1-163-038-91	CERAMIC CHIP	0.1MF 25V	D651	8-719-979-58	DIODE EGP10D	
C922	1-126-952-11	ELECT	1000MF 20% 16V	D652	8-719-048-63	DIODE UG4DL-6506	
C923	1-126-963-11	ELECT	4.7MF 20% 50V	D653	8-719-048-63	DIODE UG4DL-6506	
C924	1-163-038-91	CERAMIC CHIP	0.1MF 25V	D654	8-719-051-97	DIODE 3DL41A(LC6-15)	
C925	1-137-370-11	FILM	0.01MF 5% 50V	D655	8-719-911-19	DIODE 1SS119-25	
C926	1-163-005-11	CERAMIC CHIP	470pF 10% 50V	D657	8-719-048-61	DIODE EGP20DL-6349	
C927	1-163-005-11	CERAMIC CHIP	470pF 10% 50V	D658	8-719-048-61	DIODE EGP20DL-6349	
C928	1-124-903-11	ELECT	1MF 20% 50V	D659	8-719-110-17	ZENER DIODE RD10ESB2	
C930	1-163-239-11	CERAMIC CHIP	33pF 5% 50V	D660	8-719-911-19	DIODE 1SS119-25	
C931	1-126-965-11	ELECT	22MF 20% 50V	D701	8-719-911-19	DIODE 1SS119-25	



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

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
L507	1-412-537-31	INDUCTOR 100UH		<RESISTOR>			
L508	1-411-594-11	COIL, CHOKE 5mH		R401	1-208-806-11	METAL CHIP 10K	0.50% 1/10W
L509	1-411-585-11	COIL, HORIZONTAL LINEARITY		R402	1-215-441-00	METAL 6.8K	1% 1/4W
L511	1-429-301-11	TRANSFORMER, FERRITE (HCT)		R405	1-249-383-11	CARBON 1.5	5% 1/4W F
L512	1-411-567-11	COIL, CHOKE 500UH		R406	1-249-421-11	CARBON 2.2K	5% 1/4W
L513	1-459-075-11	COIL, DYNAMIC CONVERSION CHOKE		R407	1-215-866-11	METAL OXIDE 330	5% 1W F
L651	1-406-665-11	COIL, CHOKE 100UH		R408	1-214-798-21	METAL 1.8	1% 1/2W
L652	1-406-665-11	COIL, CHOKE 100UH		R409	1-249-421-11	CARBON 2.2K	5% 1/4W
L653	1-412-537-31	INDUCTOR 100UH		R410	1-215-441-00	METAL 6.8K	1% 1/4W
L701	1-412-537-31	INDUCTOR 100UH		R411	1-215-445-00	METAL 10K	1% 1/4W
<FILTER>				R412	1-216-295-91	CONDUCTOR, CHIP	
LF601	1-426-789-11	TRANSFORMER, LINE FILTER (LFT)		R413	1-216-295-91	CONDUCTOR, CHIP	
<TRANSISTOR>				R416	1-249-413-11	CARBON 470	5% 1/4W F
Q501	8-729-119-76	TRANSISTOR 2SA1175-HFE		R417	1-214-798-21	METAL 1.8	1% 1/2W
Q502	8-729-032-61	TRANSISTOR 2SC5022-02		R418	1-215-473-00	METAL 150K	1% 1/4W
Q503	8-729-820-73	TRANSISTOR 2SC3746		R419	1-215-473-00	METAL 150K	1% 1/4W
Q505	8-729-015-28	TRANSISTOR IRFI9630GS		R500	1-247-891-00	CARBON 330K	5% 1/4W
Q507	8-729-039-92	TRANSISTOR 2SC5380		R502	1-216-395-00	METAL OXIDE 3.3	5% 3W F
	4-382-854-01	SCREW (M3X8), P, SW (+) ; Q505		R503	1-216-395-00	METAL OXIDE 3.3	5% 3W F
	4-382-854-01	SCREW (M3X8), P, W (+) ; Q507		R504	1-249-385-11	CARBON 2.2	5% 1/4W F
Q510	8-729-032-88	TRANSISTOR IRFPG50LF21		R505	1-249-401-11	CARBON 47	5% 1/4W
	4-382-854-01	SCREW (M3X8), P, SW (+) ; Q510		R506	1-247-807-31	CARBON 100	5% 1/4W
Q511	8-729-027-14	TRANSISTOR 2SK1904		R507	1-249-421-11	CARBON 2.2K	5% 1/4W
Q512	8-729-027-14	TRANSISTOR 2SK1904		R508	1-215-861-00	METAL OXIDE 47	5% 1W F
Q513	8-729-021-79	TRANSISTOR 2SK1307		R509	1-247-863-91	CARBON 22K	5% 1/4W
Q515	8-729-119-78	TRANSISTOR 2SC2785-HFE		R510	1-216-449-11	METAL OXIDE 56	5% 2W F
Q516	8-729-119-76	TRANSISTOR 2SA1175-HFE		R511	1-249-397-11	CARBON 22	5% 1/4W F
Q518	8-729-927-09	TRANSISTOR IRFI9630		R512	1-216-049-91	METAL GLAZE 1K	5% 1/10W
Q519	8-729-119-78	TRANSISTOR 2SC2785-HFE		R513	1-215-910-00	METAL OXIDE 68	5% 3W F
Q520	8-729-119-76	TRANSISTOR 2SA1175-HFE		R514	1-249-441-11	CARBON 100K	5% 1/4W
Q522	8-729-119-78	TRANSISTOR 2SC2785-HFE		R515	1-247-887-00	CARBON 220K	5% 1/4W
Q523	8-729-119-76	TRANSISTOR 2SA1175-HFE		R516	1-249-429-11	CARBON 10K	5% 1/4W
Q524	8-729-119-78	TRANSISTOR 2SC2785-HFE		R517	1-215-477-00	METAL 220K	1% 1/4W
Q525	8-729-021-79	TRANSISTOR 2SK1307		R518	1-216-071-00	METAL GLAZE 8.2K	5% 1/10W
Q526	8-729-140-50	TRANSISTOR 2SC3209LK		R519	1-218-762-11	METAL CHIP 270K	0.50% 1/10W
Q604	8-729-028-34	TRANSISTOR 2SD1640Q,R		R520	1-249-437-11	CARBON 47K	5% 1/4W
Q605	8-729-326-11	TRANSISTOR 2SC2611		R521	1-249-437-11	CARBON 47K	5% 1/4W
Q651	8-729-141-83	TRANSISTOR 2SB1094-LK		R522	1-249-437-11	CARBON 47K	5% 1/4W
Q652	8-729-119-78	TRANSISTOR 2SC2785-HFE		R523	1-249-437-11	CARBON 47K	5% 1/4W
Q653	8-729-142-46	TRANSISTOR 2SC2001-LK		R524	1-249-417-11	CARBON 1K	5% 1/4W F
Q655	8-729-029-86	TRANSISTOR DTC124ESA		R525	1-249-417-11	CARBON 1K	5% 1/4W F
Q656	8-729-027-52	TRANSISTOR DTC124EKA-T146		R526	1-249-417-11	CARBON 1K	5% 1/4W F
Q657	8-729-027-52	TRANSISTOR DTC124EKA-T146		R528	1-249-429-11	CARBON 10K	5% 1/4W
Q658	8-729-140-96	TRANSISTOR 2SD774-34		R529	1-215-421-00	METAL 1K	1% 1/4W
Q703	8-729-422-27	TRANSISTOR 2SD601A-Q		R531	1-249-429-11	CARBON 10K	5% 1/4W
Q704	8-729-216-22	TRANSISTOR 2SA1162-G		R532	1-249-397-11	CARBON 22	5% 1/4W F
Q801	8-729-422-27	TRANSISTOR 2SD601A-Q		R533	1-215-913-11	METAL OXIDE 220	5% 3W F
Q802	8-729-422-27	TRANSISTOR 2SD601A-Q		R534	1-215-913-11	METAL OXIDE 220	5% 3W F
Q901	8-729-216-22	TRANSISTOR 2SA1162-G		R535	1-215-476-91	METAL 180K	1% 1/4W
Q902	8-729-027-52	TRANSISTOR DTC124EKA-T146		R536	1-215-421-00	METAL 1K	1% 1/4W
				R537	1-249-417-11	CARBON 1K	5% 1/4W
				R538	1-247-895-91	CARBON 470K	5% 1/4W
				R539	1-215-431-00	METAL 2.7K	1% 1/4W
				R540	1-215-471-00	METAL 120K	1% 1/4W
				R541	1-215-431-00	METAL 2.7K	1% 1/4W
				R542	1-215-469-00	METAL 100K	1% 1/4W

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R543	1-249-389-11	CARBON	4.7	5%	1/4W	F	
R544	1-216-690-11	METAL CHIP	43K	0.50%	1/10W		
R545	1-208-800-11	METAL CHIP	5.6K	0.50%	1/10W		
R546	1-249-427-11	CARBON	6.8K	5%	1/4W	F	
R547	1-215-923-00	METAL OXIDE	10K	5%	3W	F	
R548	1-249-417-11	CARBON	1K	5%	1/4W	F	
R549	1-215-905-11	METAL OXIDE	10	5%	3W	F	
R550	1-215-905-11	METAL OXIDE	10	5%	3W	F	
R551	1-215-926-00	METAL OXIDE	33K	5%	3W	F	
R552	1-247-863-91	CARBON	22K	5%	1/4W		
R553	1-260-296-11	CARBON	2.2	5%	1/2W		
R554	1-215-473-00	METAL	150K	1%	1/4W		
R555	1-215-477-00	METAL	220K	1%	1/4W		
R556	1-208-810-11	METAL CHIP	15K	0.50%	1/10W		
R557	1-218-768-11	METAL CHIP	470K	0.50%	1/10W		
R558	1-208-806-11	METAL CHIP	10K	0.50%	1/10W		
R559	1-216-678-11	METAL CHIP	13K	0.50%	1/10W		
R560	1-218-772-11	METAL CHIP	680K	0.50%	1/10W		
R561	1-216-105-91	METAL GLAZE	220K	5%	1/10W		
R562	1-216-073-00	METAL GLAZE	10K	5%	1/10W		
R563	1-215-879-11	METAL OXIDE	47K	5%	1W	F	
R565	1-249-417-11	CARBON	1K	5%	1/4W		
R566	1-216-077-00	METAL GLAZE	15K	5%	1/10W		
R567	1-249-429-11	CARBON	10K	5%	1/4W		
R568	1-216-105-91	METAL GLAZE	220K	5%	1/10W		
R569	1-216-049-91	METAL GLAZE	1K	5%	1/10W		
R570	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W		
R571	1-216-049-91	METAL GLAZE	1K	5%	1/10W		
R572	1-249-429-11	CARBON	10K	5%	1/4W		
R574	1-249-377-11	CARBON	0.47	5%	1/4W	F	
R575	1-216-687-11	METAL CHIP	33K	0.50%	1/10W		
R576	1-249-421-11	CARBON	2.2K	5%	1/4W		
R577	1-249-417-11	CARBON	1K	5%	1/4W		
R578	1-208-806-11	METAL CHIP	10K	0.50%	1/10W		
R579	1-247-891-00	CARBON	330K	5%	1/4W		
R580	1-216-677-11	METAL CHIP	12K	0.50%	1/10W		
R581	1-249-383-11	CARBON	1.5	5%	1/4W	F	
R582	1-215-429-00	METAL	2.2K	1%	1/4W		
R583	1-208-810-11	METAL CHIP	15K	0.50%	1/10W		
R584	1-215-883-11	METAL OXIDE	33	5%	2W	F	
R585	1-249-429-11	CARBON	10K	5%	1/4W		
R586	1-249-397-11	CARBON	22	5%	1/4W	F	
R587	1-215-913-11	METAL OXIDE	220	5%	3W	F	
R588	1-249-417-11	CARBON	1K	5%	1/4W		
R589	1-249-377-11	CARBON	0.47	5%	1/4W	F	
R590	1-249-381-11	CARBON	1	5%	1/4W	F	
R591	1-216-389-11	METAL OXIDE	1	5%	3W	F	
R592	1-216-450-00	METAL OXIDE	82	5%	2W	F	
R593	1-249-377-11	CARBON	0.47	5%	1/4W	F	
R594	1-249-417-11	CARBON	1K	5%	1/4W	F	
R595	1-215-477-00	METAL	220K	1%	1/4W		
R596	1-249-417-11	CARBON	1K	5%	1/4W		
R597	1-249-417-11	CARBON	1K	5%	1/4W	F	
R598	1-249-437-11	CARBON	47K	5%	1/4W		
R599	1-215-882-00	METAL OXIDE	22	5%	2W	F	
R601	1-205-985-21	WIREWOUND	1.5	5%	20W		
R602	1-249-377-11	CARBON	0.47	5%	1/4W	F	
R606 Δ	1-202-882-91	SOLID	560K	20%	1/2W		
R608 Δ	1-215-927-71	METAL OXIDE	47K	5%	3W	F	
R609	1-216-435-11	METAL OXIDE	2.7K	5%	1W	F	
R612	1-247-807-31	CARBON	100	5%	1/4W		
R613	1-207-642-00	WIREWOUND	0.15	10%	3W	F	
R614	1-249-424-11	CARBON	3.9K	5%	1/4W		
R615	1-247-863-91	CARBON	22K	5%	1/4W		
R617	1-249-419-11	CARBON	1.5K	5%	1/4W		
R621	1-249-421-11	CARBON	2.2K	5%	1/4W		
R627	1-249-377-11	CARBON	0.47	5%	1/4W	F	
R631	1-249-417-11	CARBON	1K	5%	1/4W		
R633	1-216-377-11	METAL OXIDE	4.7	5%	2W	F	
R634	1-216-378-11	METAL OXIDE	5.6	5%	2W	F	
R636	1-202-933-61	FUSIBLE	0.1	10%	1/2W	F	
R637	1-249-377-11	CARBON	0.47	5%	1/4W	F	
R651	1-211-874-11	FUSIBLE	0.12	10%	1/2W		
R652	1-211-874-11	FUSIBLE	0.12	10%	1/2W		
R653	1-219-154-11	FUSIBLE	0.12	10%	1/4W		
R654	1-219-154-11	FUSIBLE	0.12	10%	1/4W		
R655	1-219-154-11	FUSIBLE	0.12	10%	1/4W		
R656	1-216-113-00	METAL GLAZE	470K	5%	1/10W		
R658	1-215-445-00	METAL	10K	1%	1/4W		
R659	1-216-349-71	METAL OXIDE	1.0	5%	1W	F	
R660	1-249-420-11	CARBON	1.8K	5%	1/4W		
R661	1-216-081-00	METAL GLAZE	22K	5%	1/10W		
R663	1-249-417-11	CARBON	1K	5%	1/4W		
R664	1-249-417-11	CARBON	1K	5%	1/4W		
R665	1-249-429-11	CARBON	10K	5%	1/4W		
R666	1-249-417-11	CARBON	1K	5%	1/4W		
R667	1-249-417-11	CARBON	1K	5%	1/4W		
R668	1-249-403-11	CARBON	68	5%	1/4W		
R669	1-249-421-11	CARBON	2.2K	5%	1/4W		
R670	1-249-425-11	CARBON	4.7K	5%	1/4W		
R671	1-216-089-91	METAL GLAZE	47K	5%	1/10W		
R672	1-215-925-11	METAL OXIDE	22K	5%	3W	F	
R701	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W		
R702	1-216-073-00	METAL GLAZE	10K	5%	1/10W		
R703	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W		
R704	1-249-417-11	CARBON	1K	5%	1/4W		
R705	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W		
R706	1-216-081-00	METAL GLAZE	22K	5%	1/10W		
R707	1-208-800-11	METAL CHIP	5.6K	0.50%	1/10W		
R708	1-216-073-00	METAL GLAZE	10K	5%	1/10W		
R709	1-216-093-00	METAL GLAZE	68K	5%	1/10W		
R710	1-216-049-91	METAL GLAZE	1K	5%	1/10W		
R711	1-249-429-11	CARBON	10K	5%	1/4W		
R712	1-216-073-00	METAL GLAZE	10K	5%	1/10W		
R713	1-216-073-00	METAL GLAZE	10K	5%	1/10W		
R717	1-249-417-11	CARBON	1K	5%	1/4W		
R721	1-208-812-11	METAL CHIP	18K	0.50%	1/10W		
R722	1-216-081-00	METAL GLAZE	22K	5%	1/10W		
R723	1-216-650-11	METAL CHIP	910	0.50%	1/10W		
R724	1-208-806-11	METAL CHIP	10K	0.50%	1/10W		
R725	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W		
R800	1-249-377-11	CARBON	0.47	5%	1/4W	F	



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

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

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R804	1-216-295-91	CONDUCTOR, CHIP		R954	1-249-417-11	CARBON 1K	5% 1/4W
R806	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R955	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R807	1-216-081-00	METAL GLAZE 22K	5% 1/10W				
R808	1-249-432-11	CARBON 18K	5% 1/4W F	R957	1-249-413-11	CARBON 470	5% 1/4W
R809	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R958	1-247-807-31	CARBON 100	5% 1/4W
R810	1-216-097-91	METAL GLAZE 100K	5% 1/10W	R959	1-247-807-31	CARBON 100	5% 1/4W
R811	1-218-756-11	METAL CHIP 150K	0.50%1/10W	R960	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R812	1-216-295-91	CONDUCTOR, CHIP		R961	1-218-760-11	METAL CHIP 220K	0.50%1/10W
R813	1-216-295-91	CONDUCTOR, CHIP		R962	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R814	1-216-073-00	METAL GLAZE 10K	5% 1/10W	R963	1-208-774-11	METAL CHIP 470	0.50%1/10W
R815	1-215-886-11	METAL OXIDE 100	5% 2W F	R964	1-216-639-11	METAL CHIP 330	0.50%1/10W
R816	1-208-824-11	METAL CHIP 56K	0.50%1/10W	R965	1-208-774-11	METAL CHIP 470	0.50%1/10W
R818	1-215-467-00	METAL 82K	1% 1/4W	R966	1-208-774-11	METAL CHIP 470	0.50%1/10W
R901	1-216-085-00	METAL GLAZE 33K	5% 1/10W	R967	1-216-647-11	METAL CHIP 680	0.50%1/10W
R903	1-216-085-00	METAL GLAZE 33K	5% 1/10W	R968	1-216-651-11	METAL CHIP 1K	0.50%1/10W
R905	1-216-085-00	METAL GLAZE 33K	5% 1/10W	R969	1-216-655-11	METAL CHIP 1.5K	0.50%1/10W
R907	1-216-085-00	METAL GLAZE 33K	5% 1/10W	R970	1-216-655-11	METAL CHIP 1.5K	0.50%1/10W
R909	1-216-085-00	METAL GLAZE 33K	5% 1/10W	R971	1-216-663-11	METAL CHIP 3.3K	0.50%1/10W
R911	1-216-085-00	METAL GLAZE 33K	5% 1/10W	R972	1-216-699-11	METAL CHIP 100K	0.50%1/10W
R912	1-216-063-91	METAL GLAZE 3.9K	5% 1/10W	R973	1-216-661-11	METAL CHIP 2.7K	0.50%1/10W
R914	1-216-085-00	METAL GLAZE 33K	5% 1/10W	R974	1-216-663-11	METAL CHIP 3.3K	0.50%1/10W
R915	1-216-097-91	METAL GLAZE 100K	5% 1/10W	R975	1-216-699-11	METAL CHIP 100K	0.50%1/10W
R917	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R976	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R918	1-216-091-00	METAL GLAZE 56K	5% 1/10W	R977	1-208-774-11	METAL CHIP 470	0.50%1/10W
R919	1-216-085-00	METAL GLAZE 33K	5% 1/10W	R986	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R921	1-216-076-00	METAL GLAZE 13K	5% 1/10W	R987	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R922	1-216-075-00	METAL GLAZE 12K	5% 1/10W	R990	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R923	1-216-074-00	METAL GLAZE 11K	5% 1/10W	R993	1-249-429-11	CARBON 10K	5% 1/4W
R924	1-216-075-00	METAL GLAZE 12K	5% 1/10W	R994	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R925	1-216-075-00	METAL GLAZE 12K	5% 1/10W	R995	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R926	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W	R996	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R927	1-216-076-00	METAL GLAZE 13K	5% 1/10W	R997	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R928	1-216-076-00	METAL GLAZE 13K	5% 1/10W	R998	1-249-429-11	CARBON 10K	5% 1/4W F
R929	1-216-079-00	METAL GLAZE 18K	5% 1/10W	R999	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R930	1-216-025-91	METAL GLAZE 100	5% 1/10W				
R931	1-216-025-91	METAL GLAZE 100	5% 1/10W				
R932	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W				
R933	1-216-049-91	METAL GLAZE 1K	5% 1/10W				
R934	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W				
R935	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W				
R936	1-249-417-11	CARBON 1K	5% 1/4W				
R937	1-208-810-11	METAL CHIP 15K	0.50%1/10W				
R938	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W				
R939	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W				
R940	1-216-103-00	METAL GLAZE 180K	5% 1/10W				
R942	1-216-121-91	METAL GLAZE 1M	5% 1/10W				
R943	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W				
R944	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W				
R945	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W				
R946	1-249-413-11	CARBON 470	5% 1/4W				
R947	1-249-413-11	CARBON 470	5% 1/4W				
R949	1-216-049-91	METAL GLAZE 1K	5% 1/10W				
R950	1-216-049-91	METAL GLAZE 1K	5% 1/10W				
R951	1-247-807-31	CARBON 100	5% 1/4W				
R952	1-247-807-31	CARBON 100	5% 1/4W				
R953	1-216-049-91	METAL GLAZE 1K	5% 1/10W				

<VARIABLE RESISTOR>

RV501 **Δ** 1-241-767-21 RES. ADJ. CERMET 100K (HV ADJ)

<RELAY>

RY501 1-755-137-11 RELAY

RY601 **Δ** 1-755-031-11 RELAY

<SWITCH>

S901 1-762-816-11 SWITCH, TACTIL (BRIGHT-UP)

S902 1-692-431-21 SWITCH, TACTILE (CENT)

S903 1-762-816-11 SWITCH, TACTIL (CONT)

S904 1-692-431-21 SWITCH, TACTILE (SIZE)

S905 1-692-431-21 SWITCH, TACTILE (GEON)

S906 1-692-431-21 SWITCH, TACTILE (COLOR)

S912 1-692-431-21 SWITCH, TACTILE (RESET)

S913 1-692-431-21 SWITCH, TACTILE (POWER)

S918 1-762-816-11 SWITCH, TACTIL (BRIGHT-DOWN)

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

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



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
		<SPARK GAP>				MISCELLANEOUS	

	SG501	1-519-422-11 GAP, SPARK					
		<TRANSFORMER>					
	T501	Δ X-4034-327-1 TRANSFORMER ASSY, FLYBACK (NX-4111/J1E4)				Δ 1-409-975-12 COIL, DEMAGNETIZATION	
	T502	1-429-828-11 TRANSFORMER, FERRITE (DFT)				1-452-369-41 MAGNET, RING (6P)	
	T503	1-426-998-11 TRANSFORMER, FERRITE (HST)				1-573-983-31 CONNECTOR (D SUB) (CONNECTOR)	
	T504	1-431-056-11 TRANSFORMER, FERRITE (HDT)				15P (CPD-200SF)	
	T601	1-431-054-11 TRANSFORMER, CONVERTER (SRT)				Δ 1-558-481-12 CORD, POWER (10A/125V)	
		<THERMISTOR>				(CPD-200SF AUS)	
	TH501	1-807-796-11 THERMISTOR				Δ 1-765-717-11 CORD SET, POWER (10A/250V)	
	TH601	Δ 1-810-509-11 THERMISTOR				(CPD-200SF ES/CPD-200SFT AEP)	
	THP602	Δ 1-809-827-11 THERMISTOR, POSITIVE				Δ 1-765-718-11 CORD SET, POWER (10A/125V)	
		<VARISTOR>				(CPD-200SF U/C)	
	VA601	Δ 1-810-622-11 VARISTOR				Δ 1-775-706-11 CORD SET, POWER (10A/250V)	
		<CRYSTAL>				(CPD-200SFT UK)	
	X900	1-567-890-11 VIBRATOR, CRYSTAL				1-774-648-21 ADAPTOR, CONVERSION (CPD-200SFT)	
						1-778-967-21 ADAPTOR, CONVERSION (CPD-200SF)	
						1-776-975-31 CABLE ASSY (15P DSUB CONNECTOR)	
						Δ 8-451-478-71 DEFLECTION YOKE (Y17SAH5-M7)	
						Δ 8-738-709-92 ITC ASSY (17SASK-R2)	
						(CPD-200SF US/CN)	
						Δ 8-738-709-91 ITC ASSY (17SASK-R3) (CPD-200SF ES)	
						Δ 8-738-713-91 ITC ASSY (17SASK-RS1)	
						(CPD-200SF AUS)	
						Δ 8-738-605-95 ITC ASSY (17SAFK-R6)	
						(CPD-200SFT AEP, UK)	
	V901	Δ 8-738-709-05 PICTURE TUBE (17SASK)				V901 Δ 8-738-709-05 PICTURE TUBE (17SASK)	
						(CPD-200SF US/CN, ES)	
	V901	Δ 8-738-713-05 PICTURE TUBE (17SASK)				V901 Δ 8-738-713-05 PICTURE TUBE (17SASK)	
						(CPD-200SF AUS)	
	V901	Δ 8-738-605-05 PICTURE TUBE (17SAFK)				V901 Δ 8-738-605-05 PICTURE TUBE (17SAFK)	
						(CPD-200SFT AEP, UK)	