

6558-03N/03S/43N/43S

SERVICE MANUAL

6558-03N/43N

US Model

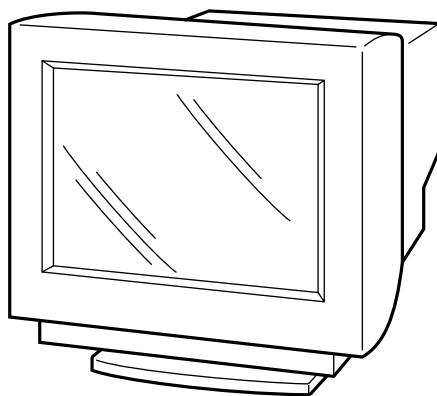
Canadian Model

AEP Model

Japan Model

6558-03S/43S

S. Hemisphere Model



N3 CHASSIS

SPECIFICATIONS

Picture tube	0.25 – 0.27 mm aperture grille pitch 21 inches measured diagonally 90-degree deflection	Deflection frequency Horizontal: 30 to 107 kHz Vertical: 50 to 160 Hz $256 < \text{Total Line} < 2048$
Viewable image size	Approx. 403.8×302.2 mm (w/h) (16 \times 12 inches) 19.8" viewing image	AC input voltage / current 100 to 240 V, 50 – 60 Hz, 2.0 – 1.0 A
Resolution	Horizontal: Max. 1600 dots Vertical: Max. 1200 lines	Power consumption Max. 160 W
Standard image area	Approx. 388×291 mm (w/h) ($15\frac{3}{8} \times 11\frac{1}{2}$ inches) or Approx. 364×291 mm (w/h) ($14\frac{3}{8} \times 11\frac{1}{2}$ inches)	Dimensions $498 \times 513 \times 500$ mm (w/h/d) ($19\frac{5}{8} \times 20\frac{1}{4} \times 19\frac{3}{4}$ inches) Mass Approx. 31 kg (68 lb 5 oz)
		Design and specifications are subject to change without notice.

MODEL	SPEC.	
	BODY COLOR	DEST.
6558-03N	WHITE TYPE	U/C, AEP, J
6558-03S		SH
6558-43N	BLACK TYPE	U/C, AEP, J
6558-43S		SH

COLOR MONITOR

IBM®

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.

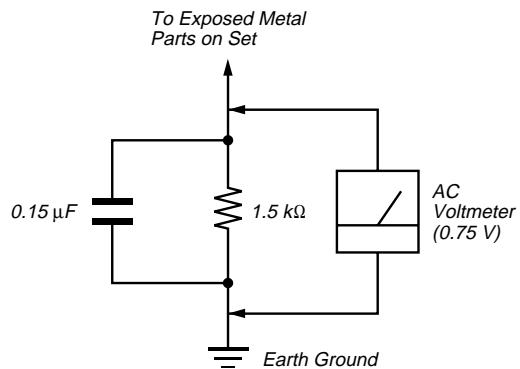


Fig. A. Using an AC voltmeter to check AC leakage.

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 microampers).

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

△ **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 **△ 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.**

POWER SAVING FUNCTION

This monitor meets the power-saving guidelines set by VESA and Energy Star, as well as the more stringent NUTEK.

If the monitor is connected to a computer or video graphics board that is VESA DPMS (Display Power Management Signaling) compliant, the monitor will automatically reduce power consumption in three stages as shown below.

You can set the delay time before the monitor enters the power saving mode using the OSD. Set the time according to "Setting the power saving delay time" on page 13.

Note

If no video signal is input to the monitor, the "NO INPUT SIGNAL" message (page 16) appears. After the delay time has passed, the power saving function automatically puts the monitor into the active-off mode and the  indicator lights up orange. Once the horizontal and vertical sync signals are detected, the monitor automatically resumes its normal operation mode.

	Power consumption mode	Screen	Horizontal sync signal	Vertical sync signal	Power consumption	Recovery time	 Indicator
1	Normal operation	active	present	present	≤ 160 W	—	Green
2	Standby (1st mode)	blank	absent	present	≤ 100 W	Approx. 3 sec.	Green and orange alternate
3	Suspend (2nd mode)	blank	present	absent	≤ 15 W	Approx. 3 sec.	Green and orange alternate
4	Active-off (3rd mode)	blank	absent	absent	< 5 W	Approx. 10 sec.	Orange
5	Power-off	—	—	—	0 W	—	Off

DIAGNOSIS

Failure	Power LED
+B failure	Orange → Off (0.5 sec) (0.5 sec)
Horizontal / Vertical Deflection failure, Thermal protector	Orange → Off (1.5 sec) (0.5 sec)
ABL protector	Orange → Off (0.5 sec) (1.5 sec)
HV failure	Orange → Off → Orange → Off (0.25 sec) (0.5 sec) (0.25 sec) (1.25 sec)
Aging / Self Test	Orange → Off → Green → Off (0.5 sec) (0.5 sec) (0.5 sec) (0.5 sec)

Aging Mode (Video Aging) : During Power Save, press "MENU" key for longer than 2 second.

Self Test (OSD Color Bar) : During Power Save, press "CONTRAST" + (\rightarrow) key for longer than 2 second.

Reliability Check Mode : During Power Save, press "CONTRAST" - (\leftarrow) key for longer than 2 second.

TIMING SPECIFICATION

Mode								Test Mode
Mode At Production	Mode 1	Mode 2	Mode 3	Mode 4	Mode 5	Mode 6	Mode 7	Mode 8
RESOLUTION	656 X 496	640 X 480	800 X 600	1024 X 768	1280 X 1024	1280 X 1024	1600 X 1200	1600 X 1200
CLOCK	25.175 MHZ	36.000 MHZ	56.250 MHZ	94.500 MHZ	135.000 MHZ	157.500 MHZ	202.500 MHZ	229.500 MHZ
<u>— HORIZONTAL —</u>								
H-FREQ	31.469 kHz usec	43.269 kHz usec	53.674 kHz usec	68.677 kHz usec	79.976 kHz usec	91.146 kHz usec	93.750 kHz usec	106.250 kHz usec
H. TOTAL	31.778	23.111	18.631	14.561	12.504	10.971	10.667	9.412
H. BLK	5.720	5.333	4.409	3.725	3.022	2.844	2.765	2.440
H. FP	0.318	1.556	0.569	0.508	0.119	0.406	0.316	0.279
H. SYNC	3.813	1.556	1.138	1.016	1.067	1.016	0.948	0.837
H. BP	1.589	2.222	2.702	2.201	1.837	1.422	1.501	1.325
H. ACTIV	26.058	17.778	14.222	10.836	9.481	8.127	7.901	6.972
<u>— VERTICAL —</u>								
V. FREQ(HZ)	59.940 Hz lines	85.008 Hz lines	85.061 Hz lines	84.997 Hz lines	75.025 Hz lines	85.024 Hz lines	75.000 Hz lines	85.000 Hz lines
V. TOTAL	525	509	631	808	1066	1072	1250	1250
V. BLK	29	29	31	40	42	48	50	50
V. FP	2	1	1	1	1	1	1	1
V. SYNC	2	3	3	3	3	3	3	3
V. BP	25	25	27	36	38	44	46	46
V. ACTIV	496	480	600	768	1024	1024	1200	1200
<u>— SYNC —</u>								
INT(G)	NO							
EXT(H/V)/POLARITY	YES N/N	YES N/N	YES P/P					
EXT(CS)/POLARITY	NO							
INT/NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT

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Precautions

Installation

- Prevent internal heat build-up by allowing adequate air circulation. Do not place the monitor on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation holes.
- Do not install the monitor near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.
- Do not place the monitor near equipment which generates magnetism, such as a transformer or high voltage power lines.

Maintenance

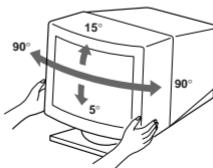
- Clean the cabinet, panel and controls with a soft cloth lightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent, such as alcohol or benzene.
- Do not rub, touch, or tap the surface of the screen with sharp or abrasive items such as a ballpoint pen or screwdriver. This type of contact may result in a scratched picture tube.

Transportation

When you transport this monitor for repair or shipment, use the original carton and packing materials.

Use of the Tilt-Swivel

With the tilt-swivel, this monitor can be adjusted to the desired angle within 180° horizontally and 20° vertically. To turn the monitor vertically and horizontally, hold it at the bottom with both hands as illustrated below.



Warning on power connection

- Use an appropriate power cord for your local power supply.

Examples of plug types



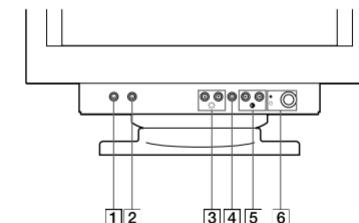
- Before disconnecting the power cord, wait at least 30 seconds after turning off the power to allow the static electricity on the CRT display surface to discharge.
- After the power has been turned on, the CRT is demagnetized (degaussed) for about 3 seconds. This generates a strong magnetic field around the metal frame, which may affect the data stored on magnetic tapes and disks near the bezel. Place magnetic recording equipment, tapes and disks away from this monitor.

The outlet should be installed near the equipment and be easily accessible.

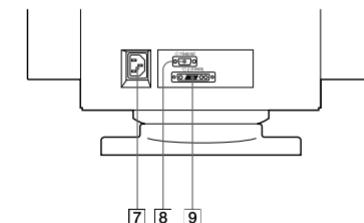
Identifying Parts and Controls

See the pages in parentheses for further details.

Front



Rear



1 ... (reset) button (page 14)

Resets the adjustments to the factory settings.

2 ☰ (auto sizing and centering) button (page 5)

Automatically adjusts the size and centering of the images.

3 ⚡ (brightness) (↔/↑) buttons (pages 5 – 14)

Adjust the picture brightness.

Function as the (↔/↑) buttons when adjusting other items.

4 ☱ (menu) button (pages 5 – 14)

Displays the MENU OSD.

5 ⓘ (contrast) (↔/→) buttons (pages 5 – 14, 18)

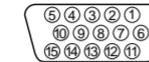
Adjust the contrast.

Function as the (↔/→) buttons when adjusting other items.

6 Ⓛ (power) switch and indicator (pages 15, 18)

Turns the monitor on or off.

The indicator lights up in green when the monitor is turned on, and lights up in orange when the monitor is in power saving mode.



Pin No.	Signal	Pin No.	Signal
1	Red	8	Blue Ground
2	Green (Composite Sync on Green)	9	DDC + 5V*
		10	Ground
3	Blue	11	ID (Ground)
4	ID (Ground)	12	Bi-Directional Data (SDA)*
5	DDC Ground*	13	H. Sync
6	Red Ground	14	V. Sync
7	Green Ground	15	Data Clock(SCL)*

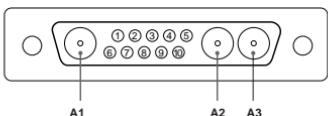
* Display Data Channel (DDC) Standard of VESA

(continued)

EN

9 Video input 2 connector (13W3 cable)

Inputs RGB video signal (0.700 Vp-p, positive).



Pin No.	Signal	Pin No.	Signal
A1	Red Video & Ground	4	Ground
A2	Green Video & Ground	5	C.Sync*
A3	Blue Video & Ground	6	—
1	—	7	Bi-Directional Data (SDA)**
2	Data Clock (SCL)**	8	DDC + 5V**
3	—	9	V.Sync
		10	Ground

* Pins serve a dual purpose as combined sync input and as H.sync input if V.Sync is present on pin no. 9.

** Display Data Channel (DDC) Standard by VESA

Note

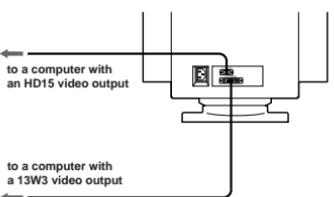
If you use a computer or video board of high output level (about 1.0 Vp-p), you may not be able to obtain the optimum display. In such case, try decreasing the picture contrast, or use a computer or video board with a lower output level.

Setup

This monitor works with platforms running at horizontal frequencies between 30 and 107 kHz.

Step 1: Connect the monitor to the computer

With the computer switched off, connect the video signal cable to the video output of the computer.

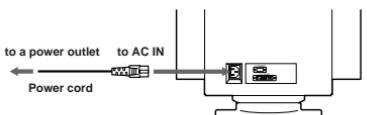


Note

Do not short the pins of the video signal cable.

Step 2: Connect the power cord

With the monitor switched off, connect one end of the proper power cord for your local supply to the monitor and the other end to a power outlet.



Step 3: Turn on the monitor and computer

The installation of your monitor is complete.

Note

If "OUT OF SCAN RANGE" or "NO INPUT SIGNAL" appears on the screen, see "Warning Messages" on page 16.

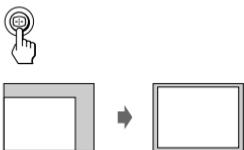
Automatically Adjusting the Size and Centering of the Picture

By pressing the button, the size and centering of the picture are automatically adjusted to fit the screen.

1 Turn on the monitor and computer.

2 Press the button.

The picture is adjusted to fit the center of the screen.



Notes

- This function is intended for use with a computer running graphic user interface software that provides a full-screen picture. It may not work properly if the background color is dark or if the input picture does not fill the screen to the edges.
- The screen may go blank for a few seconds while performing the auto-sizing function. This is not a malfunction.
- Although the signals for picture aspect ratio 5:4 (resolution: 1280 x 1024) do not fill the screen to the edges, the picture is accurately displayed.

Selecting the On-screen Display Language

If you need to change the OSD language, see "Using the LANG (Language) On-screen Display" on page 14. The default setting is English.

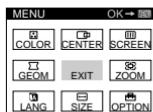
Selecting the Input Signal

This monitor has two signal input connectors (HD15 and 13W3) and can be connected to two computers simultaneously. Select the input signal you want to view as follows.

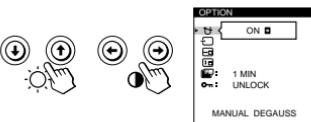
1 Turn on the monitor and both computers.

2 Press the button.

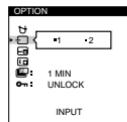
The MENU OSD appears.



3 Press the and buttons to select " OPTION," and press the button again. The OPTION OSD appears.



4 Press the and buttons to select " (INPUT)."



(continued)

5 Press the buttons to select "1" or "2."



When "1" is selected

The signal from the computer connected to the HD15 connector is input to the monitor.

When "2" is selected

The signal from the computer connected to the 13W3 connector is input to the monitor.

The OPTION OSD automatically disappears after about 30 seconds.

To close the OSD, press the button again.

For more information on using the OSD, see "Introducing the On-screen Display System" on page 7.

When you connect computers to both connectors

If you restart the computer you want to view, or that computer is in power saving mode, the monitor may automatically select the other connector's signal. This is because the monitor switches from the interrupted signal to the constant signal. If this happens, manually select the desired signal.

Before adjusting

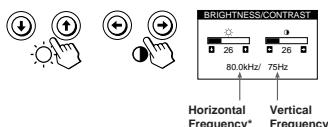
- Connect the monitor and the computer, and turn them on.
- Select " LANG" in the MENU OSD, then select "ENGLISH" (see page 14).

Adjusting the Picture Brightness and Contrast

Once the setting is adjusted, it will be stored in memory for all input signals received.

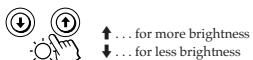
- 1 Press the (brightness) / or (contrast) / buttons.

The BRIGHTNESS/CONTRAST OSD appears.

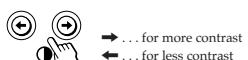


- 2 For brightness adjustment

Press the / buttons.



- For contrast adjustment
Press the / buttons.



The OSD automatically disappears after about 3 seconds.

To reset, press the (reset) button while the OSD is on. The brightness and contrast are both reset to the factory settings.

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

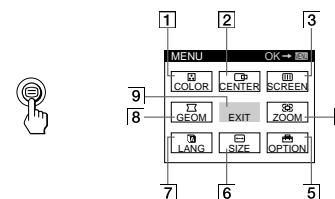
Introducing the On-screen Display System

Most adjustments are made using the MENU OSD.

MENU OSD

Press the button to display the MENU OSD.

This MENU OSD contains links to the other OSDs described below.



1 COLOR

Displays the COLOR OSD for adjusting the color temperature.

2 CENTER

Displays the CENTER OSD for adjusting the centering of the picture.

3 SCREEN

Displays the SCREEN OSD for adjusting the vertical and horizontal convergence, etc.

4 ZOOM

Displays the ZOOM OSD for enlarging and reducing the picture.

5 OPTION

Displays the OPTION OSD for adjusting the OSD position and degaussing the screen, etc.

6 SIZE

Displays the SIZE OSD for adjusting the picture size.

7 LANG

Displays the LANGUAGE OSD for selecting the language.

8 GEOM

Displays the GEOMETRY OSD for adjusting the picture rotation and pincushion, etc.

9 EXIT

Closes the MENU OSD.

Using the CENTER On-screen Display

The CENTER settings allow you to adjust the centering of the picture.

Once the setting is adjusted, it will be stored in memory for the current input signal.

- 1 Press the button.

The MENU OSD appears.



- 2 Press the / and buttons to select " CENTER," and press the button again.

The CENTER OSD appears.

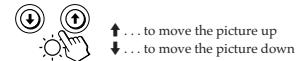


EN

- 3 For horizontal adjustment
Press the / buttons.



- For vertical adjustment
Press the / buttons.



The OSD automatically disappears after about 30 seconds.
To close the OSD, press the button again.

To reset, press the (reset) button while the OSD is on. The horizontal and vertical centerings are both reset to the factory settings.

Using the SIZE On-screen Display

The SIZE settings allow you to adjust the size of the picture. Once the setting is adjusted, it will be stored in memory for the current input signal.

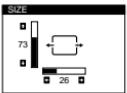
1 Press the button.

The MENU OSD appears.



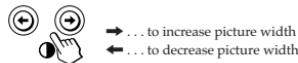
2 Press the and and and buttons to select "SIZE," and press the button again.

The SIZE OSD appears.



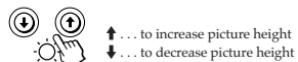
3 For horizontal adjustment

Press the  and  buttons.



For vertical adjustment

Press the  and  buttons.



The OSD automatically disappears after about 30 seconds. To close the OSD, press the  button again.

To reset, press the  (reset) button while the OSD is on. The horizontal and vertical sizes are both reset to the factory settings.

Using the GEOM (Geometry) On-screen Display

The GEOM (geometry) settings allow you to adjust the shape and orientation of the picture.

Once the rotation is adjusted, it will be stored in memory for all input signals received. All other adjustments will be stored in memory for the current input signal.

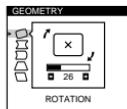
1 Press the button.

The MENU OSD appears.



2 Press the and and and buttons to select "GEOM," and press the button again.

The GEOMETRY OSD appears.



3 Press the and buttons to select the item you want to adjust.



Select	To
<input type="checkbox"/> ROTATION	adjust the picture rotation
<input type="checkbox"/> PINCUSHION	adjust the picture sides
<input type="checkbox"/> PIN BALANCE	adjust the picture side balance
<input type="checkbox"/> KEYSTONE	adjust the picture width
<input type="checkbox"/> KEY BALANCE	adjust the picture shape balance

4 Press the and buttons to adjust the settings.



For	Press
<input type="checkbox"/> ROTATION	→ ... to rotate the picture clockwise ← ... to rotate the picture counterclockwise
<input type="checkbox"/> PINCUSHION	→ ... to expand the picture sides ← ... to contract the picture sides
<input type="checkbox"/> PIN BALANCE	→ ... to move the picture sides to the right ← ... to move the picture sides to the left
<input type="checkbox"/> KEYSTONE	→ ... to increase the picture width at the top ← ... to decrease the picture width at the top
<input type="checkbox"/> KEY BALANCE	→ ... to move the top of the picture to the right ← ... to move the top of the picture to the left

The OSD automatically disappears after about 30 seconds. To close the OSD, press the  button again.

To reset, press the  (reset) button while the OSD is on. The selected item is reset to the factory setting.

Using the ZOOM On-screen Display

The ZOOM settings allow you to enlarge or reduce the picture.

Once the setting is adjusted, it will be stored in memory for the current input signal.

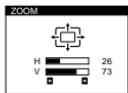
1 Press the button.

The MENU OSD appears.



2 Press the and and and buttons to select "ZOOM," and press the button again.

The ZOOM OSD appears.



EN

3 Press the and buttons to adjust the picture zoom.



The OSD automatically disappears after about 30 seconds. To close the OSD, press the  button again.

To reset, press the  (reset) button while the OSD is on.

Note

The picture zoom adjustment will stop as soon as either the horizontal or vertical size reaches its maximum or minimum value.

Using the COLOR On-screen Display

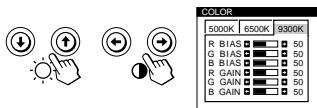
You can change the monitor's color temperature. For example, you can adjust or change the colors of a picture on the screen to match the actual colors of the printed picture. Once the setting is adjusted, it will be stored in memory for all input signals received.

- 1 Press the button. The MENU OSD appears.

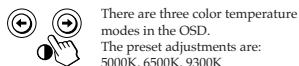


- 2 Press the and buttons to select "COLOR," and press the button again.

The COLOR OSD appears.



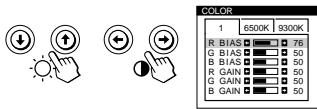
- 3 Press the buttons to select the color temperature.



There are three color temperature modes in the OSD. The preset adjustments are: 5000K, 6500K, 9300K

- 4 Fine tuning the color temperature

Press the buttons to select an item and adjust by pressing the buttons.



Select **R (red)**, **G (green)**, or **B (blue)** **BIAS** to adjust the black level of each color's signal.

Select **R (red)**, **G (green)**, or **B (blue)** **GAIN** to adjust the white level of each color's signal.

The "5000K," "6500K" or "9300K" disappears and the new color settings are memorized for each of the three color modes.

The color temperature modes change as follows:
5000K → 1, 6500K → 2, 9300K → 3

The OSD automatically disappears after about 30 seconds. To close the OSD, press the button again.

To reset, press the (reset) button while the OSD is on. The selected item is reset to the factory settings.

Using the SCREEN On-screen Display

You can adjust convergence settings to eliminate red or blue shadows that may appear around objects on the screen. Adjust the CANCEL MOIRE function to eliminate wavy or elliptical patterns that may appear on the screen.

Adjust the LANDING function to correct color imbalances at the four corners of the screen due to influence from the earth's magnetism.

Once CANCEL MOIRE is adjusted, it will be stored in memory for the current input signal. All other adjustments will be stored in memory for all input signals received.

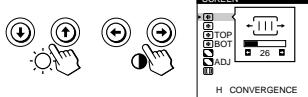
- 1 Press the button.

The MENU OSD appears.



- 2 Press the and buttons to select "SCREEN," and press the button again.

The SCREEN OSD appears.



- 3 Press the buttons to select the item you want to adjust.

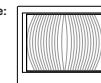


Select	To
H CONVERGENCE	adjust the horizontal convergence
V CONVERGENCE	adjust the vertical convergence
TOP V CONVER TOP	adjust the screen's upper vertical convergence
BOT V CONVER BOTTOM	adjust the screen's lower vertical convergence

Select	To
LANDING	select one of the four corners that needs color correction due to influence from the earth's magnetism
ADJ LANDING ADJUST	correct the color at one of the four corners of the screen
CANCEL MOIRE *	turn the moire cancellation function "ON" or "OFF." CANCEL MOIRE must be "ON" for " ADJ (MOIRE ADJUST)" to appear on the screen.
ADJ MOIRE ADJUST	adjust the degree of moire cancellation

* Moire is a type of natural interference which produces soft wavy lines on your screen. It may appear due to interference between the regulated pattern of the picture from the input signal and the phosphor pitch pattern of the CRT.

Example of moire:



- 4 Press the buttons to adjust the settings.



For	Press
H CONVERGENCE	<ul style="list-style-type: none"> → ... to shift red shadows to the right and blue shadows to the left ← ... to shift red shadows to the left and blue shadows to the right
V CONVERGENCE	<ul style="list-style-type: none"> → ... to shift red shadows up and blue shadows down ← ... to shift red shadows down and blue shadows up
TOP V CONVER TOP	<ul style="list-style-type: none"> → ... to shift red shadows up and blue shadows down ← ... to shift red shadows down and blue shadows up
BOT V CONVER BOTTOM	<ul style="list-style-type: none"> → ... to shift red shadows up and blue shadows down ← ... to shift red shadows down and blue shadows up

Note

The picture may become fuzzy when CANCEL MOIRE is set to "ON."

The OSD automatically disappears after about 30 seconds. To close the OSD, press the button again.

To reset, press the (reset) button while the OSD is on. The selected item is reset to the factory setting.

Using the OPTION On-screen Display

The OPTION OSD allows you to manually degauss the screen and adjust settings such as the OSD position and power saving delay time. It also allows you to lock the controls.

Degaussing the screen

The monitor screen is automatically degaussed (demagnetized) when the power is turned on. You can also manually degauss the monitor.

1 Press the  button.

The MENU OSD appears.



2 Press the  and  buttons to select "OPTION," and press the  button again.

The OPTION OSD appears.

Changing the on-screen display position

You can change the OSD position (for example, when you want to adjust the picture behind the OSD).

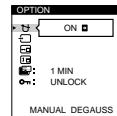
1 Press the  button.

The MENU OSD appears.



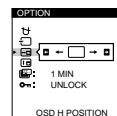
2 Press the  and  buttons to select "OPTION," and press the  button again.

The OPTION OSD appears.



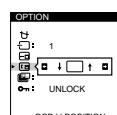
3 Press the  and  buttons to select "OSD H POSITION" or "OSD V POSITION."

Select "OSD H POSITION" to adjust the horizontal position.



3 Press the  and  buttons to select "MANUAL DEGAUSS."

Select "OSD V POSITION" to adjust the vertical position.



4 Press the  button.

The screen is degaussed for about 3 seconds.



If you need to degauss the screen a second time, wait for at least 20 minutes before repeating the steps above.

The OPTION OSD automatically disappears after about 30 seconds.

To close the OSD, press the  button again.

4 Press the  and  buttons to move the OSD to the desired position.



The OPTION OSD automatically disappears after about 30 seconds.

To close the OSD, press the  button again.

To reset, press the  (reset) button while the OSD is on.

Setting the power saving delay time

You can set the delay time before the monitor enters the power saving mode. See page 15 for more information on this monitor's power saving capabilities.

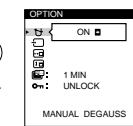
1 Press the  button.

The MENU OSD appears.

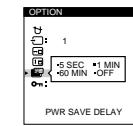


2 Press the  and  buttons to select "OPTION," and press the  button again.

The OPTION OSD appears.



3 Press the  and  buttons to select "PWR SAVE DELAY."



4 Press the  and  buttons to select the desired time.



When PWR SAVE DELAY is set to "OFF," the monitor does not go into power saving mode.

The OPTION OSD automatically disappears after about 30 seconds.

To close the OSD, press the  button again.

To reset, press the  (reset) button while the OSD is on.

Locking the controls

The control lock function disables all of the buttons on the front panel except the  (power) switch and .

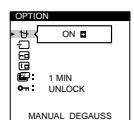
1 Press the  button.

The MENU OSD appears.

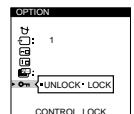


2 Press the  and  buttons to select "OPTION," and press the  button again.

The OPTION OSD appears.



3 Press the  and  buttons to select "ON (CONTROL LOCK)."



4 Press the  and  buttons to select "LOCK."



The OPTION OSD automatically disappears after about 30 seconds.

To close the OSD, press the  button again.

Once you select "LOCK," you cannot select any items except "EXIT" and "OPTION" in the MENU OSD.

If you press any button other than the  (power) switch and , the  mark appears on the screen.

To cancel the control lock

Repeat steps 1 through 3 above and press the  and  buttons to select "UNLOCK."

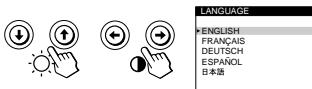
Using the LANG (Language) On-screen Display

English, French, German, Spanish and Japanese versions of the OSDs are available.

- 1 Press the button.
The MENU OSD appears.



- 2 Press the and buttons to select "LANG," and press the button again.
The LANGUAGE OSD appears.



- 3 Press the and buttons to select the desired language.



ENGLISH: English, FRANÇAIS: French,
DEUTSCH: German, ESPAÑOL: Spanish,
or 日本語: Japanese.

The OSD automatically disappears after about 30 seconds.
To close the OSD, press the button again.

To reset to English, press the (reset) button while the OSD is on.

Resetting the Adjustments

Resetting an adjustment item

- 1 Press the , , , and / buttons to select the OSD containing the item you want to reset.



- 2 Press the and buttons to select the item you want to reset.



- 3 Press the (reset) button.



Resetting all of the adjustment data for the current input signal

When there is no OSD displayed, press the (reset) button.

All of the adjustments data for the current input signal is reset to the factory settings.

Note that adjustment data not affected by changes in input signal (OSD language, OSD position, input signal selection, power saving delay time and the control lock function) is not reset to the factory settings.



Resetting all of the adjustment data for all inputsignals

Press and hold the (reset) button for more than two seconds.

All of the adjustment data, including the brightness and contrast, is reset to the factory settings.



PowerSavingFunction

This monitor meets the power-saving guidelines set by VESA and Energy Star, as well as the more stringent NUTEK.

If the monitor is connected to a computer or video graphics board that is VESA DPMS (Display Power Management Signaling) compliant, the monitor will automatically reduce power consumption in three stages as shown below.

Power consumption mode	Screen	Horizontal sync signal	Vertical sync signal	Power consumption	Recovery time	
1 Normal operation	active	present	present	≤ 160 W	—	Green
2 Standby (1st mode)	blank	absent	present	≤ 100 W	Approx. 3 sec.	Green and orange alternate
3 Suspend (2nd mode)	blank	present	absent	≤ 15 W	Approx. 3 sec.	Green and orange alternate
4 Active-off (3rd mode)	blank	absent	absent	< 5 W	Approx. 10 sec.	Orange
5 Power-off	—	—	—	0 W	—	Off

Preset Modes

No.	Resolution (dots × lines)	Horizontal Frequency	Vertical Frequency	Graphics Mode
1	640 × 480	31.5 kHz	60 Hz	VGA
2	640 × 480	43.3 kHz	85 Hz	VESA
3	800 × 600	53.7 kHz	85 Hz	VESA
4	1024 × 768	68.7 kHz	85 Hz	VESA
5	1280 × 1024	80.0 kHz	75 Hz	VESA
6	1280 × 1024	91.1 kHz	85 Hz	VESA
7	1600 × 1200	93.8 kHz	75 Hz	VESA
8	1600 × 1200	106.3 kHz	85 Hz	VESA

Plug & Play

This monitor complies with the DDC™1, DDC2B, DDC2AB and DDC2B+ Display Data Channel (DDC) standards of VESA.

When a DDC1 host system is connected, the monitor synchronizes with the V. CLK in accordance with the VESA standards and outputs the EDID (Extended Display Identification Data) to the data line.

When a DDC2B, DDC2AB or DDC2B+ host system is connected, the monitor automatically switches to the appropriate standard.

DDC™ is a trademark of the Video Electronics Standard Association.

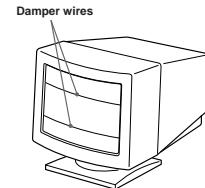
You can set the delay time before the monitor enters the power saving mode using the OSD. Set the time according to "Setting the power saving delay time" on page 13.

Note

If no video signal is input to the monitor, the "NO INPUT SIGNAL" message (page 16) appears. After the delay time has passed, the power saving function automatically puts the monitor into the active-off mode and the indicator lights up orange. Once the horizontal and vertical sync signals are detected, the monitor automatically resumes its normal operation mode.

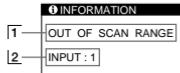
DamperWires

When viewing a white background, very thin horizontal lines may be visible on the screen as shown below. These lines are the shadows of the damper wires and are characteristic of CRTs that use aperture grilles. The wires are attached to the aperture grille on the inside of the Trinitron tube and prevent the vibration of the aperture grille.



Warning Messages

If there is something wrong with the input signal, one of the following messages appears.



① The input signal condition

"OUT OF SCAN RANGE" indicates that the input signal is not supported by the monitor's specifications.

"NO INPUT SIGNAL" indicates that no signal is input, or the input signal from the selected input connector is not received.

② The selected input connector

Indicates which input connector is receiving the wrong signal. If there is something wrong with the signal from both input connectors, "1" (HD15) and "2" (13W3) are displayed alternately.

To solve these problems, see "Troubleshooting" below.

Troubleshooting

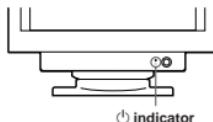
This section may help you isolate the cause of a problem and as a result, eliminate the need to contact technical support.

Symptom	Check these items
No picture	<ul style="list-style-type: none"> If the \odot indicator is not lit <ul style="list-style-type: none"> Check that the power cord is properly connected. Check that the \odot (power) switch is in the "on" position.
If the "NO INPUT SIGNAL" message appears on the screen, or if the \odot indicator is either orange or alternating between green and orange	<ul style="list-style-type: none"> The screen is blank when the monitor is in power saving mode. Try pressing any key on the computer keyboard. Check that your computer power switch is in the "on" position. Check that the input select setting is correct. Check that the video signal cable is properly connected and all plugs are firmly seated in their sockets. Ensure that no pins are bent or pushed in the HD15 or 13W3 video input connector. Check that the video board is completely seated in the proper bus slot.
If the "OUT OF SCAN RANGE" message appears on the screen	<ul style="list-style-type: none"> Check that the video frequency range is within that specified for the monitor. (Horizontal: 30 - 107 kHz, Vertical: 50 - 160 Hz) Refer to your computer's instruction manual to adjust the video frequency range. If you are using a video signal cable adapter, check that it is correct.
If no message is displayed and the \odot indicator is green or flashing orange	<ul style="list-style-type: none"> See "Self-diagnosis Function" (page 18).
Picture is scrambled	<ul style="list-style-type: none"> Check your graphics board manual for the proper monitor setting. Check this manual and confirm that the graphics mode and the frequency you are trying to operate at is supported. Even if the frequency is 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	<ul style="list-style-type: none"> Degauss the monitor (page 12). If you place equipment which generates a magnetic field, such as a loudspeaker, near the monitor, or you change the direction of the monitor, color may lose uniformity. The 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. Adjust the landing (pages 10 - 11).

Symptom	Check these items
You cannot adjust the monitor with the buttons on the front panel	<ul style="list-style-type: none"> If the control lock function is set to on, set it to off using the OPTION OSD (page 13).
White does not look white	<ul style="list-style-type: none"> Adjust the color temperature (page 10).
Screen image is not centered or sized properly	<ul style="list-style-type: none"> Press the \ominus button (page 5). Adjust the size or centering (pages 7 - 8). Some video modes do not fill the screen to the edges. This problem tends to occur with certain video boards.
Edges of the image are curved	<ul style="list-style-type: none"> Adjust the geometry (pages 8 - 9).
White lines show red or blue shadows at edges	<ul style="list-style-type: none"> Adjust the convergence (pages 10 - 11).
Picture is fuzzy	<ul style="list-style-type: none"> Adjust the contrast and brightness (page 6). Degauss the monitor (page 12). If you place equipment which generates a magnetic field, such as a loudspeaker, near the monitor, or you change the direction of the monitor, color may lose uniformity. The 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 red or blue shadows appear along the edges of images, adjust the convergence (pages 10 - 11). If the moire is cancelled, the picture may become fuzzy. Decrease the moire cancellation effect (pages 10 - 11).
Picture bounces or has wavy oscillations	<ul style="list-style-type: none"> Isolate and eliminate any potential sources of electric or magnetic fields. Common causes for this symptom are electric fans, fluorescent lighting or laser printers. 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 different computer in a different room.
Picture is flickering	<ul style="list-style-type: none"> Set the refresh rate on the computer to obtain the best possible picture by referring to the computer's manual.
Picture appears to be ghosting	<ul style="list-style-type: none"> Eliminate the use of video cable extensions and/or video switch boxes if this symptom occurs. Excessive cable length or a weak connection can produce this symptom.
Wavy or elliptical (moire) pattern is visible	<ul style="list-style-type: none"> Cancel the moire (pages 10 - 11). The moire may be modified depending on the connected computer. Due to the relationship between resolution, monitor dot pitch and the pitch of some image patterns, certain screen backgrounds sometimes show moire. Change your desktop pattern.
Two fine horizontal lines (wires) are visible	<ul style="list-style-type: none"> These wires stabilize the vertically striped aperture grille (page 15). This aperture grille allows more light to pass through to the screen giving the Trinitron CRT more color and brightness.
Hum is heard right after the power is turned on	<ul style="list-style-type: none"> When the power is turned on, the auto-degauss cycle is activated. While the auto-degauss cycle is activated (3 seconds), a hum may be heard. The same hum is heard when the monitor is manually degaussed. This is not a malfunction.

Self-diagnosis Function

This monitor is equipped with a self-diagnosis function. If there is a problem with your monitor or computer(s), the screen will go blank and the \oplus indicator will either light up green or flash orange.



If the \oplus indicator is green

- 1 Remove any plugs from the video input 1 and 2 connectors, or turn off the connected computer(s).
- 2 Press and hold the $\oplus \rightarrow$ button for 2 seconds.



If all four color bars appear (white, red, green, blue), the monitor is working properly. Reconnect the video input cables and check the condition of your computer(s).

If the color bars do not appear, there is a potential monitor failure. Inform your service representative of the monitor's condition.

If the \oplus indicator is flashing orange

Press the \oplus button to turn the monitor off and on.

If the \oplus indicator lights up green, the monitor is working properly.

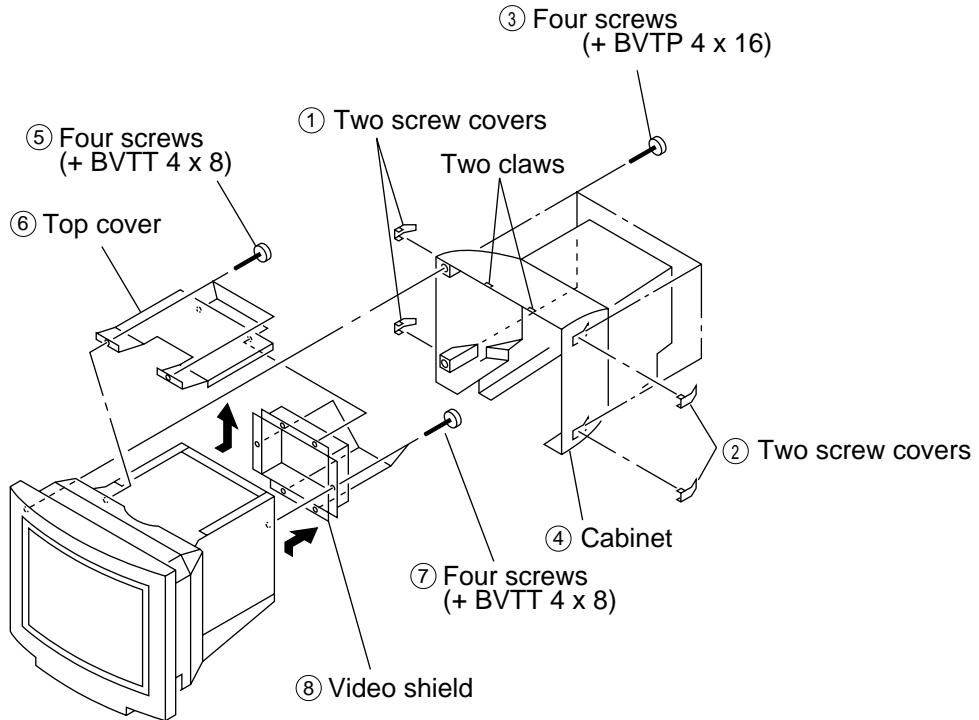
If the \oplus indicator is still flashing, there is a potential monitor failure. Count the number of seconds between orange flashes of the \oplus indicator and inform your service representative of the monitor's condition. Be sure to note the model name and serial number of your monitor. Also note the make and model of your computer and video board.

Specifications

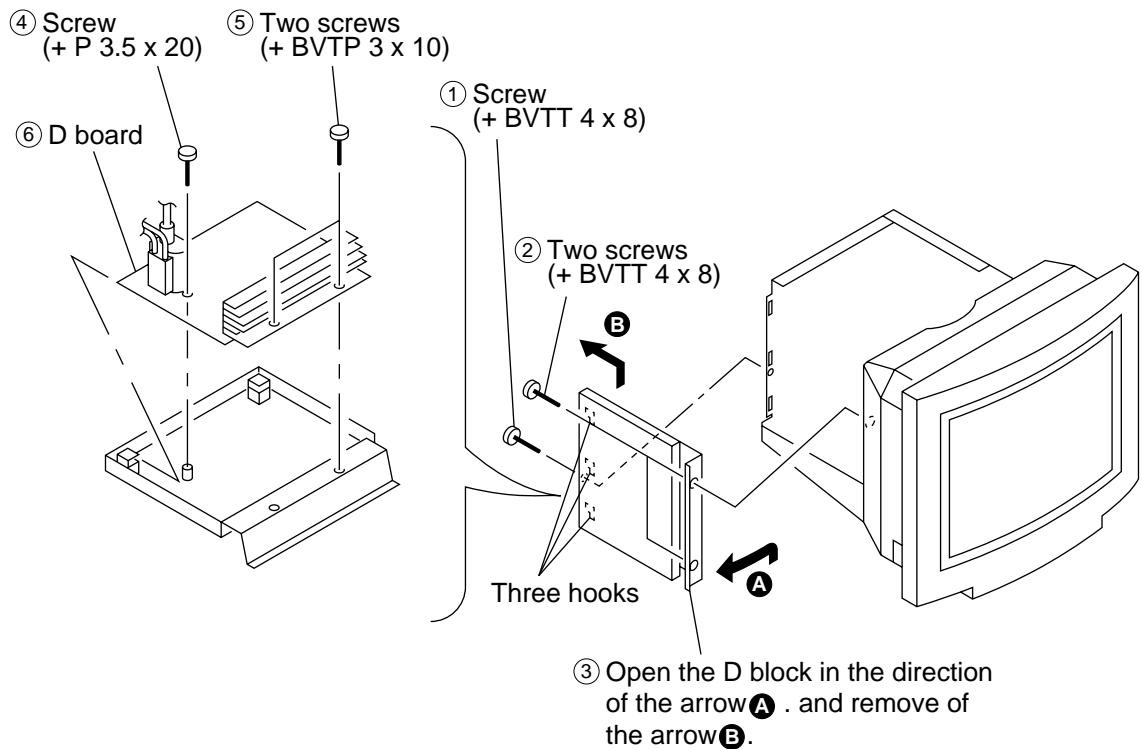
Picture tube	0.25 – 0.27 mm aperture grille pitch 21 inches measured diagonally 90-degree deflection
Viewable image size	Approx. 403.8 × 302.2 mm (w/h) (16 × 12 inches) 19.8" viewing image
Resolution	Horizontal: Max. 1600 dots Vertical: Max. 1200 lines
Standard image area	Approx. 388 × 291 mm (w/h) (15 $\frac{3}{8}$ × 11 $\frac{1}{2}$ inches) or Approx. 364 × 291 mm (w/h) (14 $\frac{3}{8}$ × 11 $\frac{1}{2}$ inches)
Deflection frequency	Horizontal: 30 to 107 kHz Vertical: 50 to 160 Hz 256 < Total Line < 2048
AC input voltage/current	100 to 240 V, 50 – 60 Hz, 2.0 – 1.0 A
Power consumption	Max. 160 W
Dimensions	498 × 513 × 500 mm (w/h/d) (19 $\frac{5}{8}$ × 20 $\frac{1}{4}$ × 19 $\frac{3}{4}$ inches)
Mass	Approx. 31 kg (68 lb 5 oz)

Design and specifications are subject to change without notice.

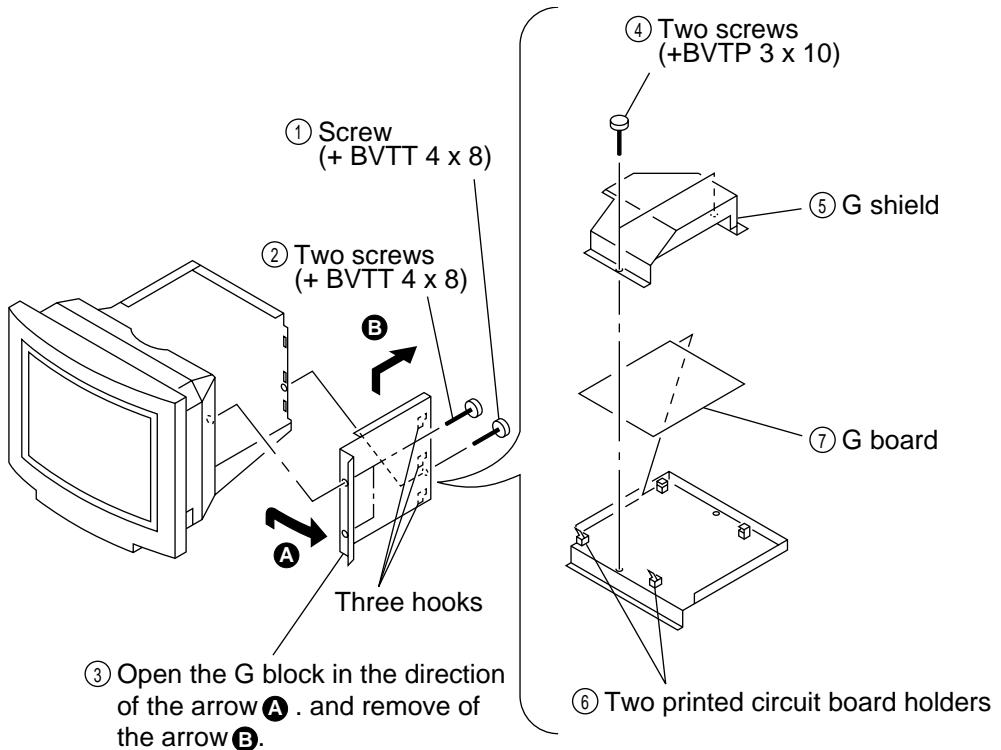
2-1. CABINET REMOVAL



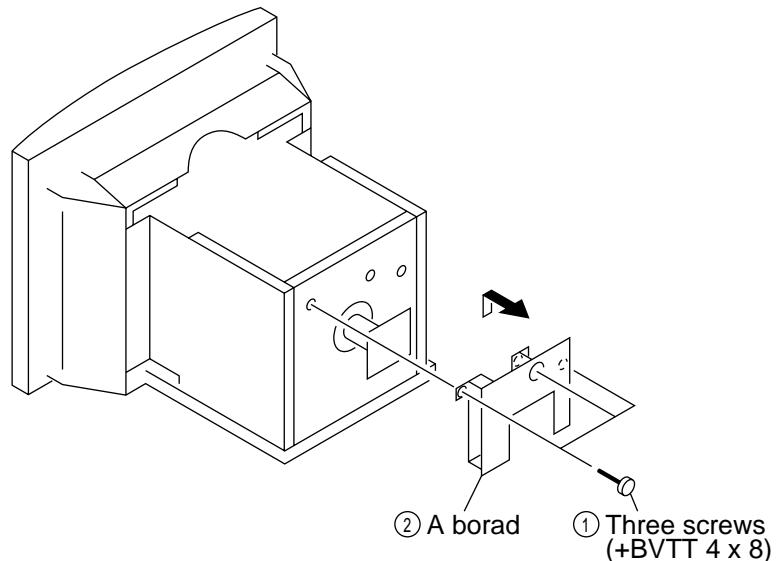
2-2. D BOARD REMOVAL



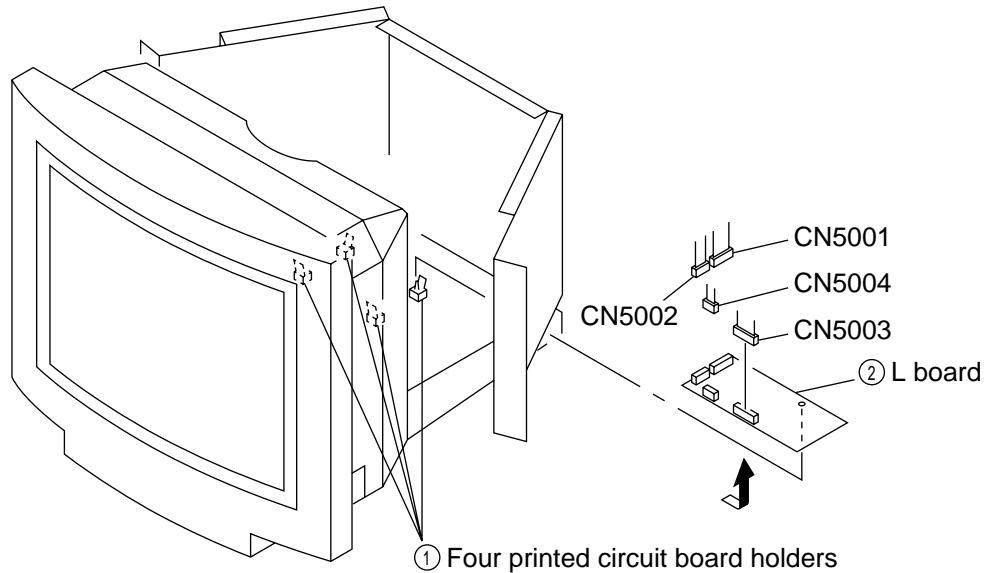
2-3. G BOARD REMOVAL



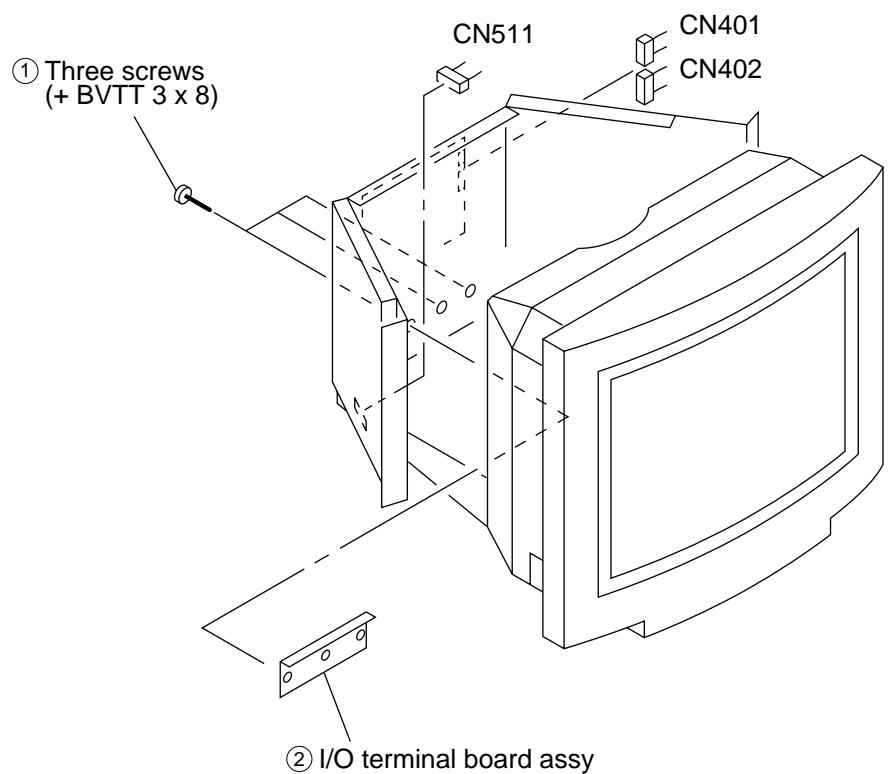
2-4. A BOARD REMOVAL



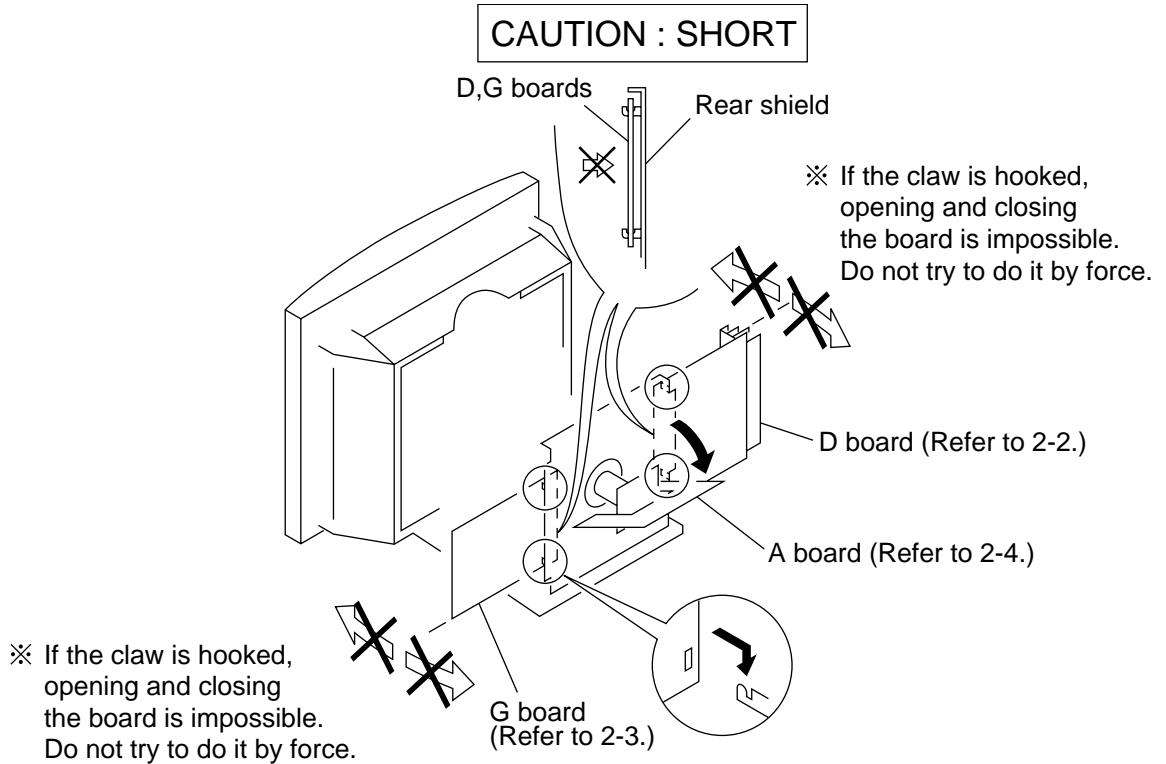
2-5. L BOARD REMOVAL



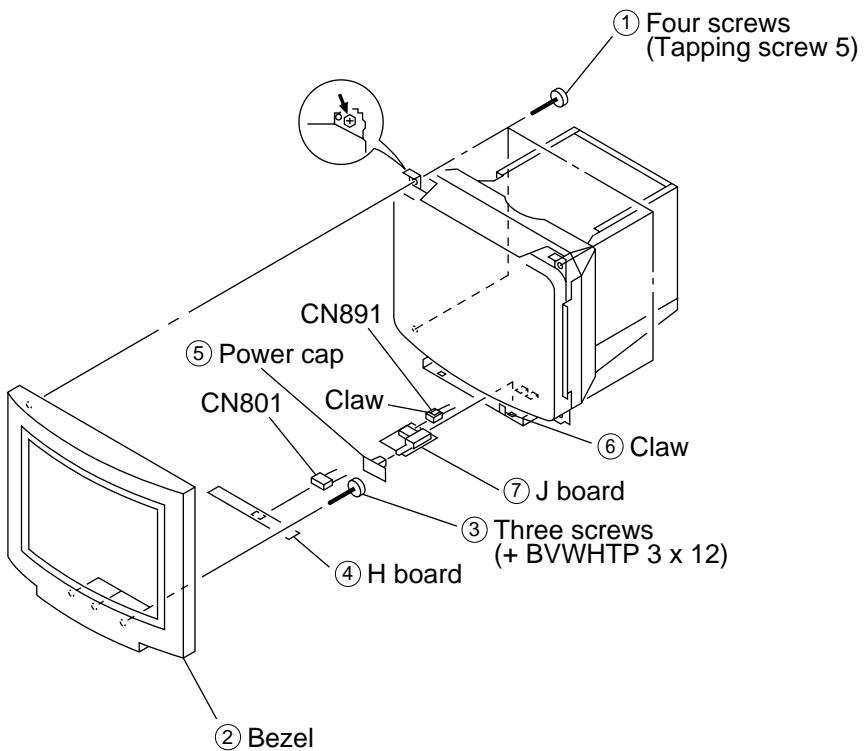
2-6. I/O TERMINAL BOARD ASSY REMOVAL



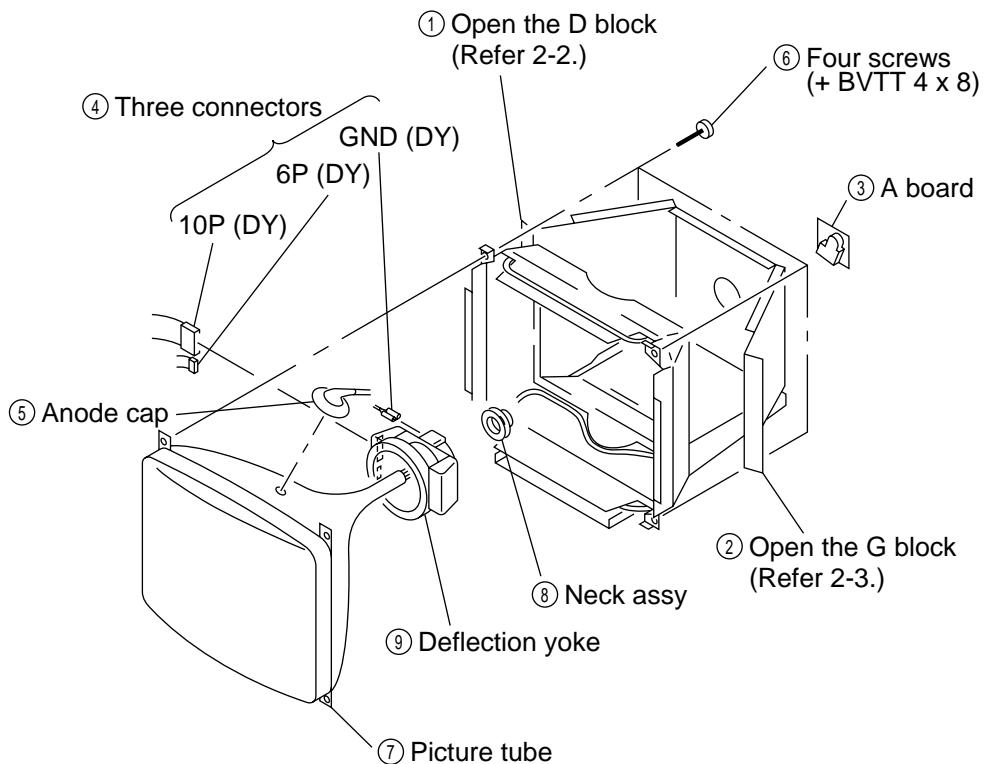
2-7. SERVICE POSITION



2-8. H AND J BOARDS REMOVAL



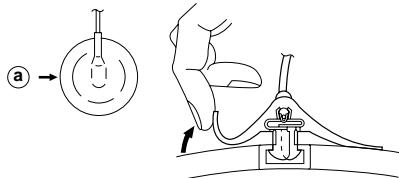
2-9. PICTURE TUBE REMOVAL



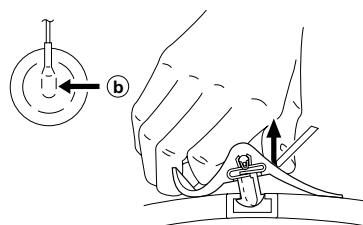
• REMOVAL OF ANODE-CAP

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.

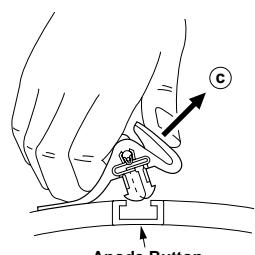
• REMOVING PROCEDURES



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



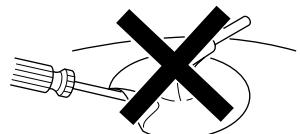
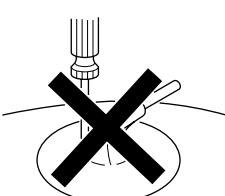
- ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ②.



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

• HOW TO HANDLE AN ANODE-CAP

- ① Don't hurt the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardly not to hurt inside of anode-caps! A 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 Regulator Circuit Check	D Board IC901, T902 • Mounted D board
HV Protector Circuit Check	D Board Q660, Q661, D916, D935, C924, R665, R667, R940, R980, T902 • Mounted D board
	G Board PH680, Q680, Q683, D680, R680, R685, R686, R687, R688, R689 • Mounted G board
Beam Current Protector Circuit Check	D Board IC901, D904, D907, D908, R011, R908, R909, R921, R925, R926, R929, R930, T902 • Mounted D board

Check Condition

Input voltage : 100 ~ 240 VAC

Input signal : White Cross Hatch at 107 kHz

Beam control : BRT and CONT → Minimum

B+ voltage : 195 ~ 205 VDC

a) HV Regulator Circuit Check

- 1) Confirm that the voltage of the pin ② of CN901 on D board is within the voltage range shown below.
Standard: 9.00 ± 0.065 VDC

b) HV Protector Circuit Check

- 1) Confirm that the HV protector circuit works and TV Raster disappears when apply the voltage as shown below between pin ③ of CN901 on D board and GND using an external DC power supply.
Check Condition: Less than 34.10 VDC

c) Beam Current Protector Circuit Check-1

- 1) Measure HV voltage and record that value.
- 2) Shorted between pin ① and pin ④ of CN901 on D board.
- 3) Connect to the Constant Current Jig (A) between pin ① of CN901 on D board and GND, confirm that the Beam Current Protector Circuit works and HV go down more than 1.25 kV from the value of (1).
Check Condition: 1.50 mA

d) Beam Current Protector Circuit Check-2

- 1) Connect to the Constant Current Jig (B) between pin ① of CN901 on D board and GND, confirm that the Beam Current Protector Circuit works and TV Raster disappears.
Check Condition: 1.59 mA

e) Voltage of 3rd winding of FBT

- 1) Confirm that the voltage of pin ③ of CN901 on D board is within the voltage range shown below.
Standard: more than 28.0 VDC

ADJUSTMENTS

Note: Hand degauss must be used on stand-by or power-off condition.

This model has an automatic earth magnetism correction function by using an earth magnetism sensor and a LCC coil. When using a hand degauss while monitor (LCC coil) is being operated, it sometimes gets magnetized, and the system may not work properly as a result.

• Landing Rough Adjustment

1. Enter the full white signal. (or the full black dots signal).
2. Adjust the contrast to the maximum.
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. 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. ("LCC SW" = "12")
2. Input the single green signal and set the CONT control to MAX.

Note: After the W/B adjustment with 9300K, measure an average of ΣI_k when a full white signal is entered in the CONT MAX/BRT CENT status. Then make adjustment so that the specified screen can be attained after aging for 2 hours with I_k equivalent to 30% of the average value.

3. Demagnetize the metal part of the chassis with the hand degausser and coil degausser, and the CRT surface with the hand degausser.

Input AC 230V to AC IN, turn on and off the power to perform auto degaussing. (Perform auto degaussing by setting "MON CON REG2"=152. Return to the original value after use.)

Demagnetize the CRT surface with the hand degausser again.

Note:

- (1) Hand degauss must be used on stand-by or power-off condition.

This model has an automatic earth magnetism correction function by using an earth magnetism sensor and a LCC coil. When using a hand degauss while monitor (LCC coil) is being operated, it sometimes gets magnetized, and the system may not work properly as a result.

- (2) Adjust in a non-magnetic field. BV=45uT.
- (3) If adjusting in a magnetic fields, add the shift from the non-magnetic field in your estimation.
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.

After adjustment, set "LCC SW" to "13".

- Write terrestrial magnetism sensor reading VX and VY to "LCC VX" and LCC VY" respectively. Adjust the landing by moving "LCC NS", "LCC LT", "LCC LB", "LCC RT" and "LCC RB". However, the register adjustment must be limited within the following range.

"LCC NS" 128 ± 15

"LCC LT", "LCC LB", "LCC RT", "LCC RB" 128 ± 40

Save the service data.

<Specifications>

Adjust so that the green is within the specification given right.

4 corner adjust target : within ± 1

0 ± 3	0 ± 7.5	0 ± 3
0 ± 5	0 ± 5	0 ± 5
0 ± 3	0 ± 7.5	0 ± 3

The red and blue must be within the specification given right with respect to the green.

± 6	± 6	± 6
± 6	± 4	± 6
± 6	± 6	± 6

A difference between red and blue must be within the specification given right.

10	10	10
10	7	10
10	10	10

* Adjustment and measurement should be made at the points one inch inside the fluorescent screen.

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

8. Check the landing of each corner, and if it does not satisfy the specification, adjust the landing of four corners using "LCC LT", "LCC LB", "LCC RT" and "LCC RB". However, the register adjustment must be limited within the following range.

"LCC NS" 128 ± 15

"LCC LT", "LCC LB", "LCC RT", "LCC RB" 128 ± 40

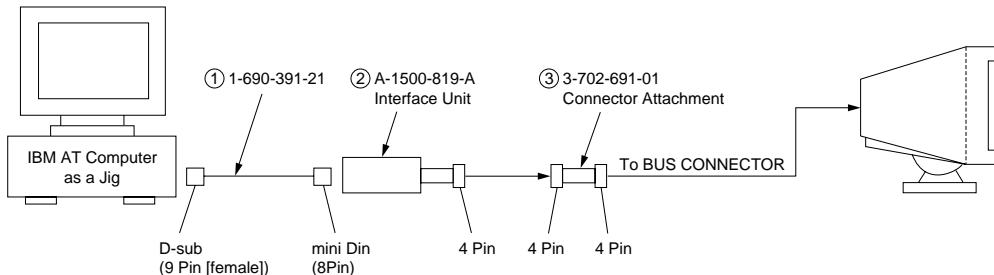
After adjustment, save the service data.

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.

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) Receive an image of the white crosshatch signals (white lines on black).
- (2) Place the protrusions of the 6-fold poles magnet attached to the CRT neck upon each other. (Fig. 1)
- (3) Make rough adjustment of the H and V direction convergence by using 4-fold poles magnet.
- (4) Make a rough adjustment of the V direction convergence by using "V. STAT".

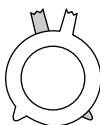


Fig. 1

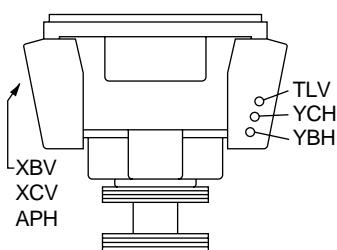
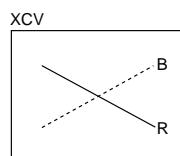
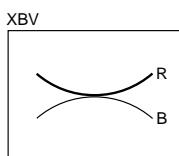
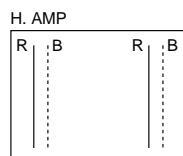


Fig. 2

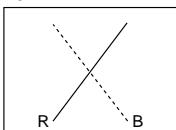


Fig. 3

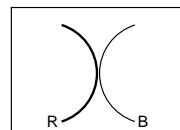
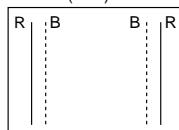
* Set so that the protruding parts of the 2 magnet rings agree with each other.



YCH



H. TILT (TLH)



• Convergence Specification

Mode A

A Zone 0.24 mm

B Zone 0.24 mm

C Zone 0.32 mm

fH> 60 kHz 0.24 mm

IH< 60 kHz 0.32 mm

60 kHz 0.36 mm

S. Hemisphere 0.24 mm

0.28 mm

0.32 mm

0.36 mm

0.40 mm

MODE	Zone	N. Hemisphere	S. Hemisphere
fH>	A Zone	0.24 mm	0.24 mm
60 kHz	B Zone	0.24 mm	0.28 mm
	C Zone	0.32 mm	0.32 mm
IH<	A Zone	0.24 mm	0.28 mm
60 kHz	B Zone	0.32 mm	0.36 mm
	C Zone	0.36 mm	0.40 mm

• White Balance Adjustment Specification

Mode A

x = 0.281 ± 0.005

y = 0.311 ± 0.005

(All White)

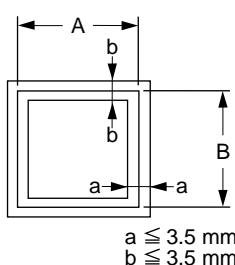
Mode B

x = 0.313 ± 0.005

y = 0.329 ± 0.005

(All White)

• Vertical and Horizontal Position and Size Specification

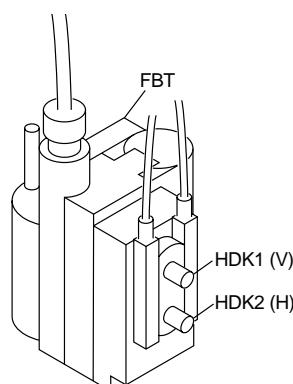


MODE	1-4, 7, 8	5, 6
A	388 mm	364 mm
B	291 mm	291 mm

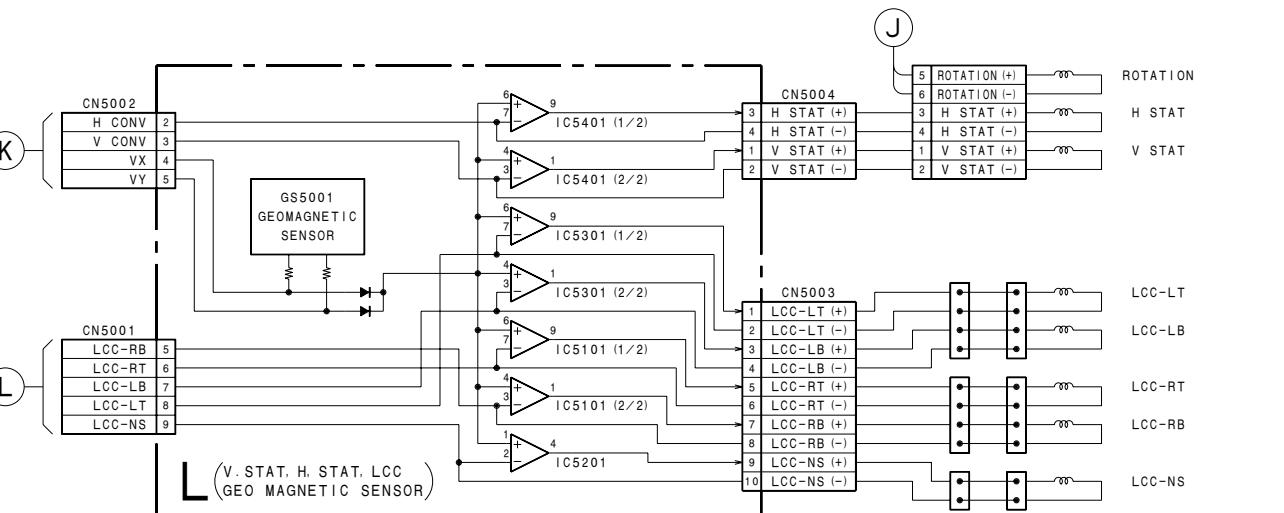
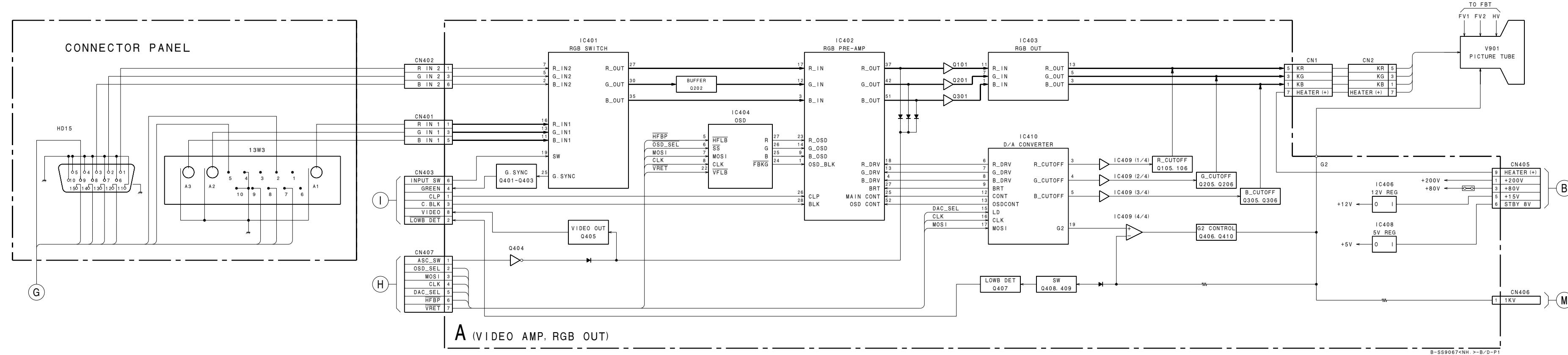
a ≤ 3.5 mm
b ≤ 3.5 mm

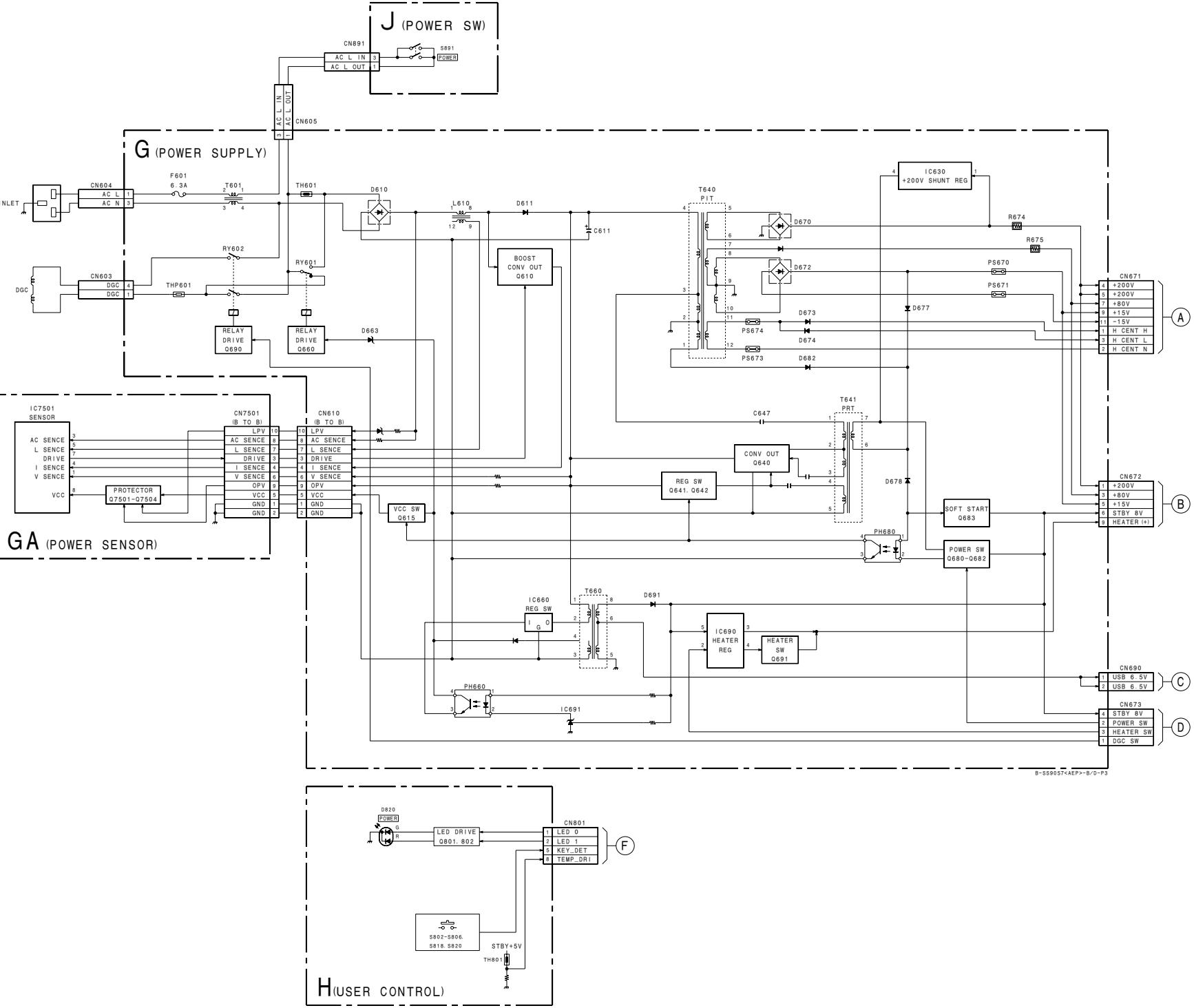
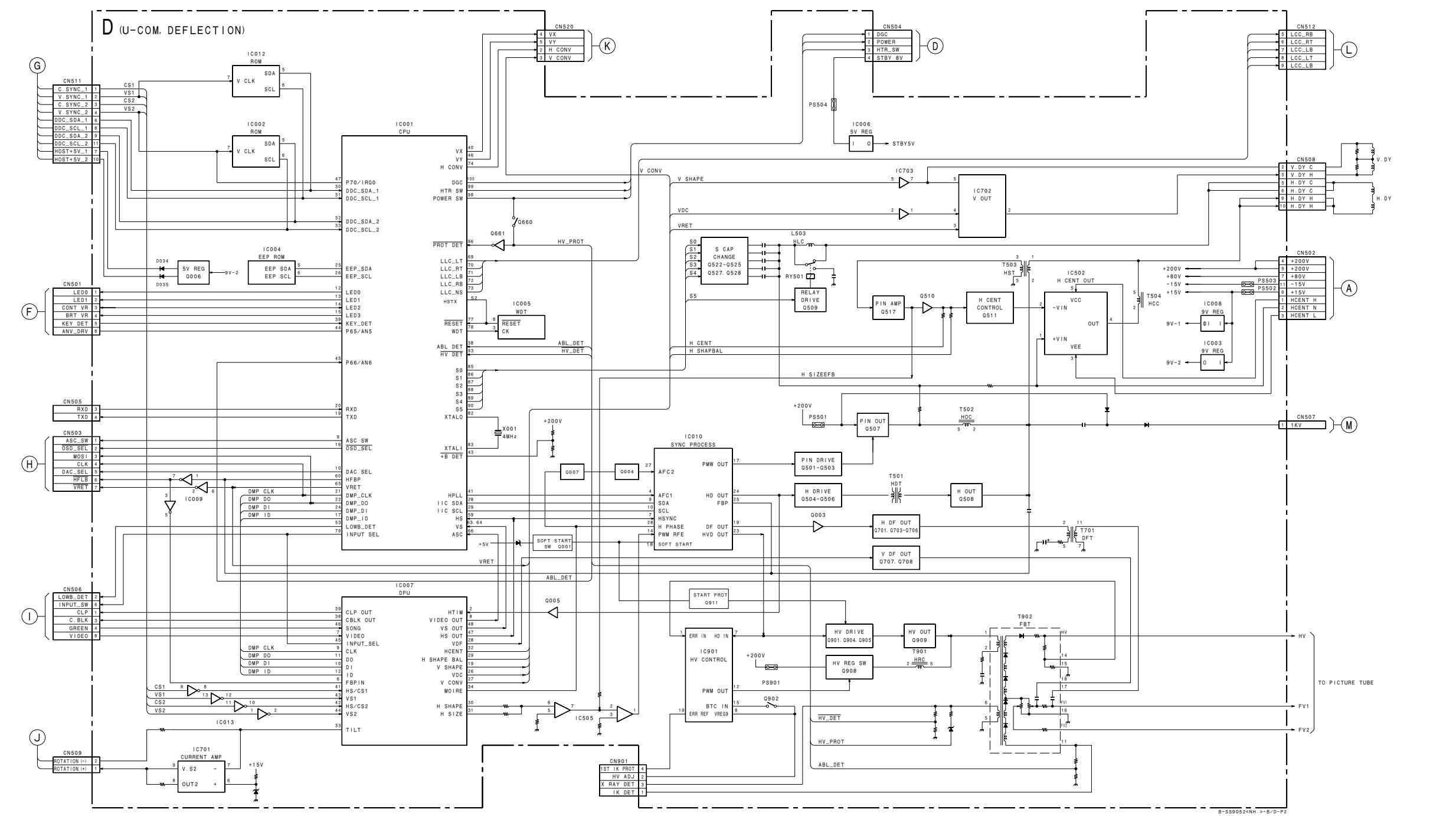
• Focus adjustment

Adjust the focus volume 1 and 2 (HDK 1 and 2) for the optimum focus.

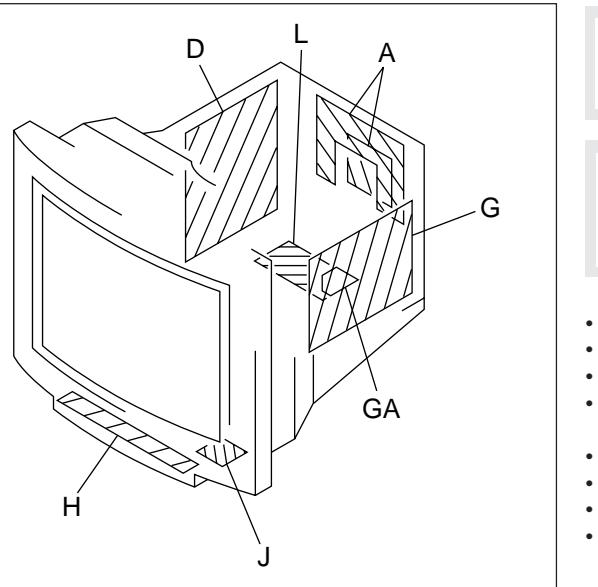


BLOCK DIAGRAMS





5-3. CIRCUIT BOARDS LOCATION



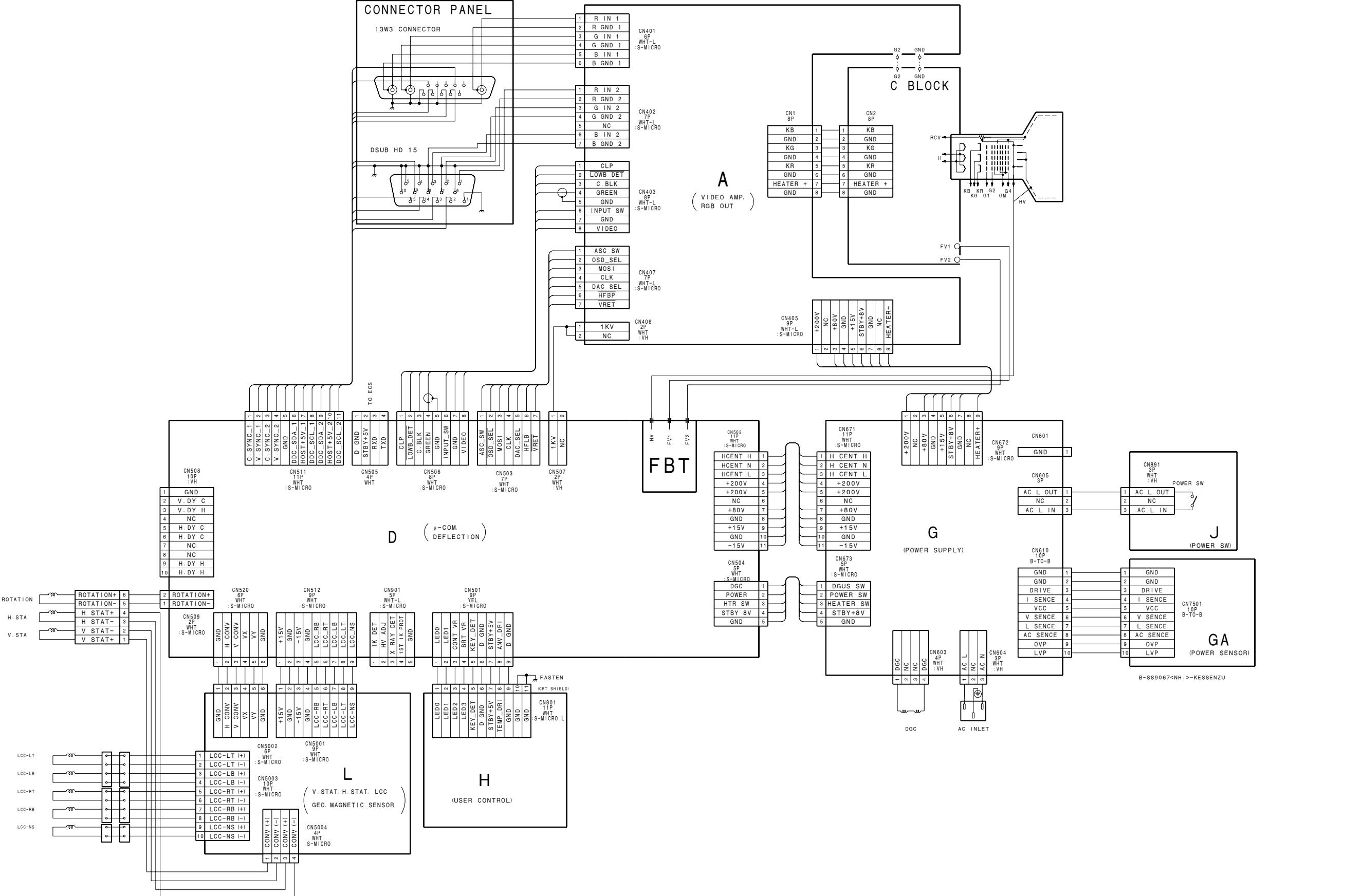
Note: The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

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

- All voltages are in V.
- Readings are taken with a 10 M 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.

5-4. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

5-2. FRAME SCHEMATIC DIAGRAM



5-4. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- All capacitors are in μF unless otherwise noted. (pF: $\mu\mu\text{F}$) Capacitors without voltage indication are all 50 V.
- 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.
- \triangle : internal component.
- \square : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- \perp : earth-ground.
- \perp : earth-chassis.
- The components identified by \blacksquare in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by \blacksquare , make the necessary adjustments indicated. (See page 3-1)
- When replacing the part in below table, be sure to perform the related adjustment.

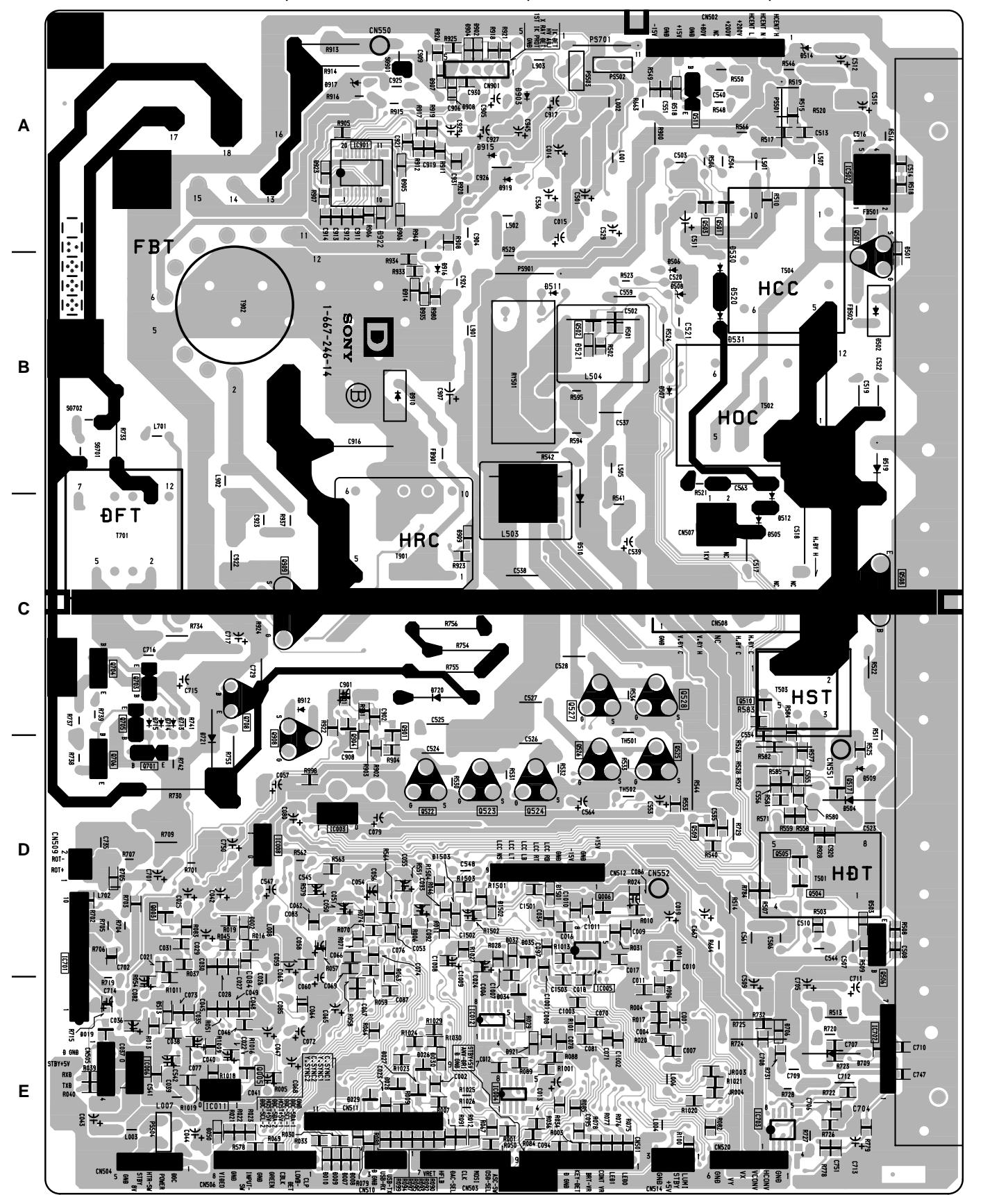
	Part replaced (\blacksquare)
HV Regulator Circuit Check	D Board IC901, T902 • Mounted D board
HV Protector Circuit Check	D Board Q660, Q661, D916, D935, C924, R665, R667, R940, R980, T902 • Mounted D board
	G Board PH680, Q680, Q683, D680, R680, R685, R686, R687, R688, R689 • Mounted G board
Beam Current Protector Circuit Check	D Board IC901, D904, D907, D908, R011, R908, R909, R921, R925, R926, R929, R930, T902 • Mounted D board

	Device	Printed symbol	Terminal name	Circuit
①	Transistor		Collector	
			Base	
②	Transistor		Collector	
			Base	
③	Diode		Cathode	
			Anode	
④	Diode		Anode	
			(NC)	
⑤	Diode		Cathode	
			Anode	
⑥	Diode		Anode	
			Cathode	
⑦	Diode		Common	
			Anode	
⑧	Diode		Common	
			Anode	
⑨	Diode		Common	
			Anode	
⑩	Diode		Common	
			Cathode	
⑪	Diode		Common	
			Cathode	
⑫	Diode		Anode	
			Cathode	
⑬	Transistor (FET)		Source	
			Gate	
⑭	Transistor (FET)		Drain	
			Source	
⑮	Transistor (FET)		Source	
			Drain	
⑯	Transistor		Emitter	
			Collector	
			Base	
			—	Discrete semiconductor

(Chip semiconductors that are not actually used are included.)

Ver.1.5

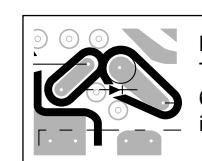
— D BOARD (Conductor Side) —



BOARD SEMICONDUCTOR LOCATION

IC		Q660	D-2	②	D511	B-3	B-2	
(Conductor Side) (Component Side)		Q661	D-2	②	D512	C-4	C-1	
001	E-2	Q701	D-1	-	D513	E-1	(③)	
002	E-3	Q703	C-1	C-4	-	D514	A-4	A-1
003	D-2	Q704	C-1	C-4	-	D516	D-2	(③)
004	E-2	Q705	C-1	C-4	-	D517	D-2	(③)
005	D-3	Q706	D-1	D-4	-	D518	A-3	(③)
006	E-1	Q707	D-1	D-3	②	D519	B-4	B-1
007	D-3	Q708	C-1	C-3	-	D521	B-3	(③)
008	D-1	Q901	C-2	A-3	②	D530	B-3	B-2
009	D-2	Q902	C-2	①	D531	B-3	B-2	
010	E-4	Q904	C-3	②	D660	D-2	(③)	
011	E-1	Q905	D-2	D-3	-	D701	D-4	(③)
012	E-2	Q908	C-2	C-3	-	D704	D-5	(③)
013	E-3	Q909	D-3	②	D705	D-1	(③)	
502	A-4	Q911	D-3	②	D706	E-4	(③)	
505	A-1				D709	E-4	E-1	
701	D-3				D713	C-1	C-4	
702	D-1				D714	C-1	C-4	
703	E-4				D715	C-1	C-4	
901	E-3				D718	D-4	(③)	
	A-1				D720	C-2	C-3	
	A-2				D721	D-1	D-4	
TRANSISTOR								
(Conductor Side) (Component Side)		(Conductor Side) (Component Side)		*	DIODE			
(Conductor Side) (Component Side)		(Conductor Side) (Component Side)		*	DIODE			
01	D-4	②	D004	E-2	⑦	D902	A-2	
03	D-1	①	D007	E-2	③	D903	A-2	
04	D-4	②	D008	E-2	③	D904	A-2	
05	E-1	①	D009	E-2	③	D905	A-2	
06	D-3	①	D010	E-2	③	D906	A-2	
07	D-4	②	D012	E-2	⑦	D907	A-2	
01	A-3	①	D013	E-2	⑦	D908	A-2	
02	B-3	①	D014	E-2	⑦	D909	C-2	
03	A-3	①	D015	E-2	⑦	D910	B-2	
04	D-4	①	D016	E-2	⑦	D911	B-3	
05	D-4	①	D019	E-1	⑥	D912	C-3	
06	D-4	D-1	D020	E-4	⑦	D913	A-3	
07	A-3	①	D025	D-4	③	D915	A-2	
02	B-3	①	D026	E-2	⑥	D916	A-2	
03	A-3	①	D027	E-2	⑥	D917	B-2	
04	D-4	①	D028	E-2	⑥	D918	B-3	
05	D-4	①	D029	E-2	⑥	D919	A-3	
06	D-4	D-1	D032	D-2	③	D921	A-2	
07	A-4	A-1	D033	E-2	③	D922	A-2	
08	C-4	C-1	D034	E-2	⑧	D923	A-2	
09	D-3	①	D035	D-3	⑧	D924	E-2	
10	C-3	①	D050	E-1	③	D935	B-2	
11	A-3	A-2	D501	B-4	③	D1501	D-3	
12	D-2	②	D502	B-4	B-1	D1502	D-2	
17	D-4	①	D503	D-4	③	D1503	D-2	
22	D-2	D-3	D504	D-4	D-1			
23	D-2	D-2	D505	C-3	C-1			
24	D-3	D-2	D506	B-3	B-2			
25	D-3	D-2	D507	B-3	B-2			
26	D-3	D-2	D508	B-3	B-2			
27	C-3	C-2	D509	D-4	D-1	X001	D-3	
28	C-3	C-2	D510	C-3	C-2		D-2	

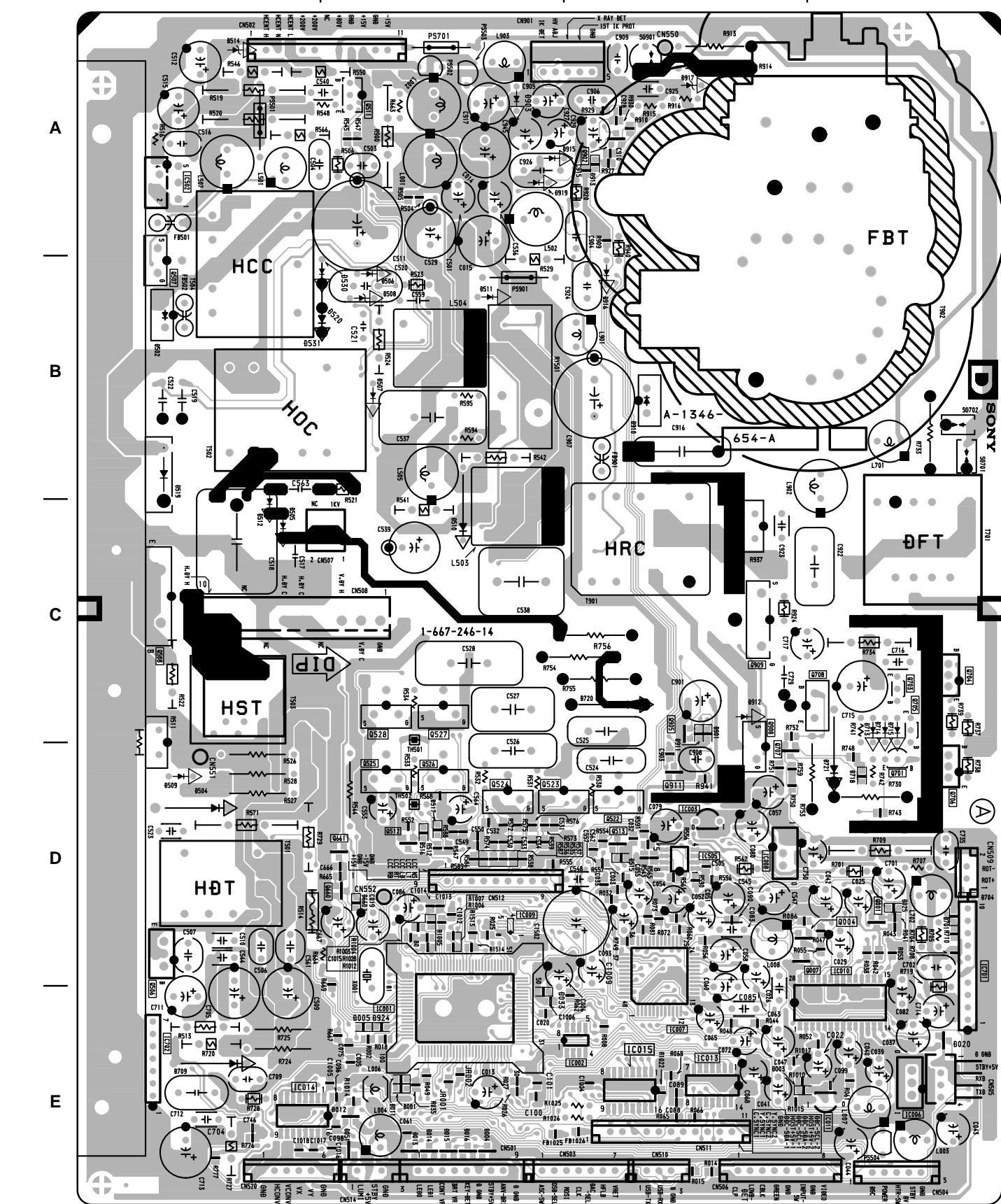
Refer to Terminal name of semiconductors in silk screen printed circuit (see page 5-9).

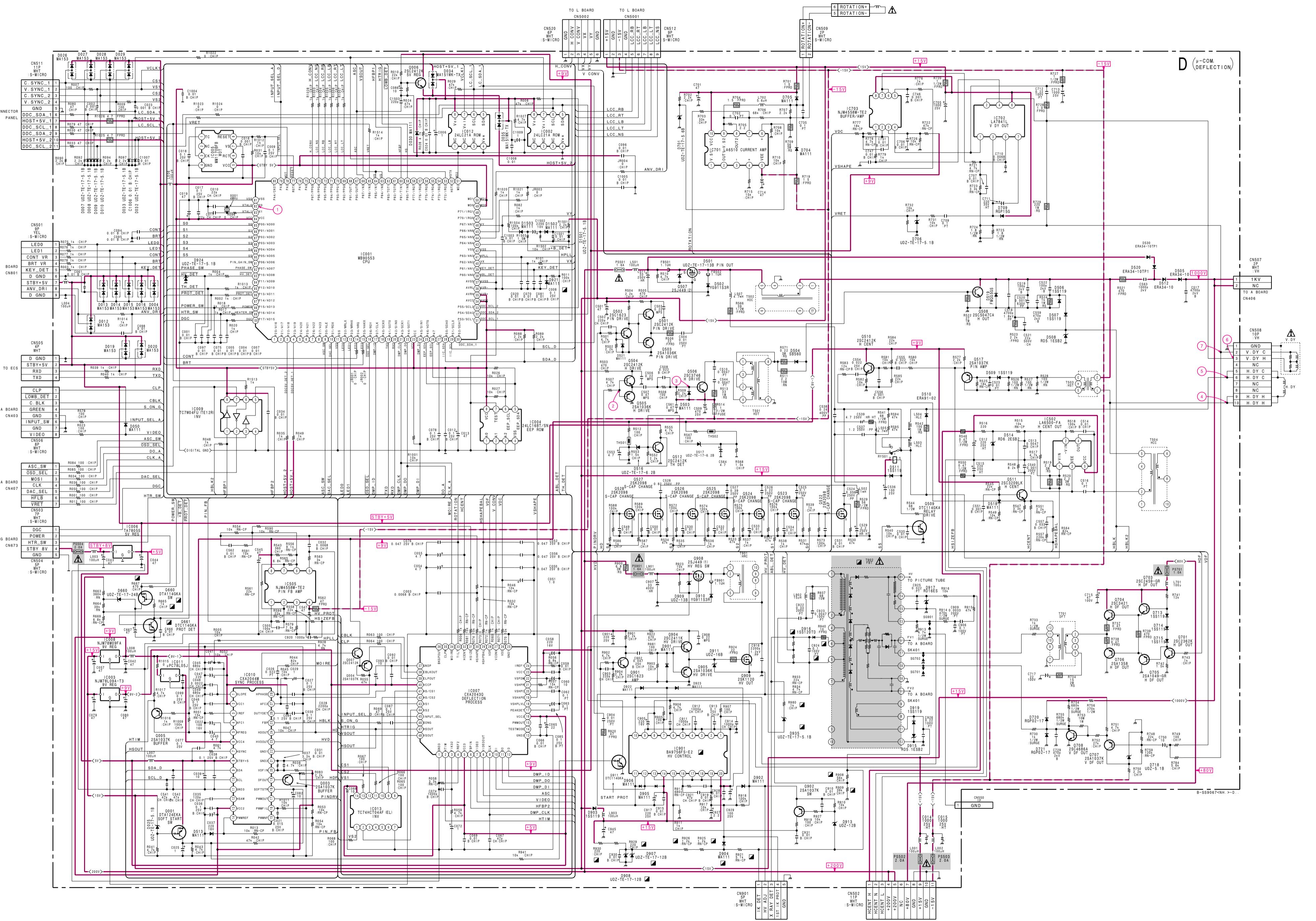


18

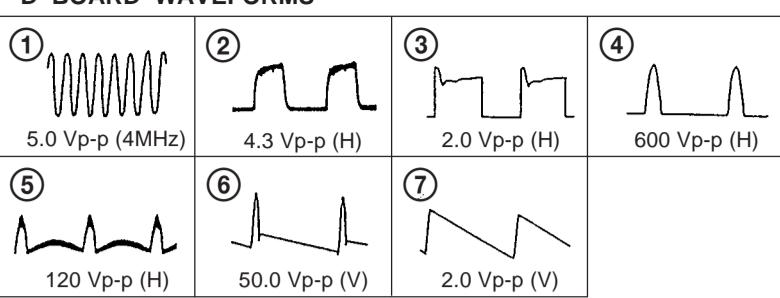
 The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

— D BOARD (Component Side) —

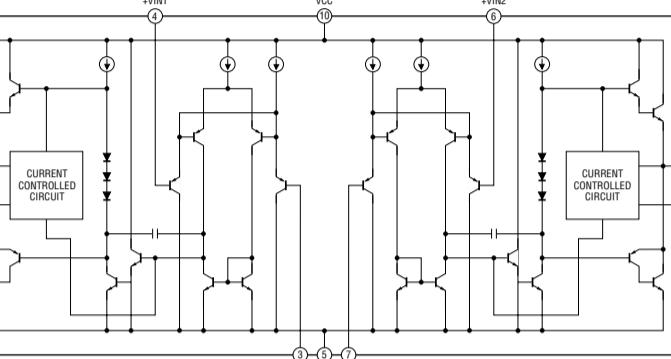




• D BOARD WAVEFORMS

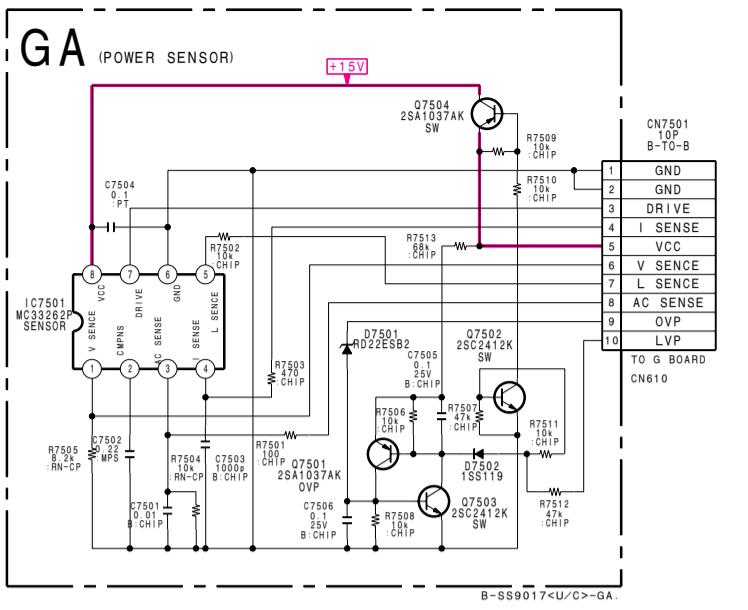


D BOARD IC701 LA6510



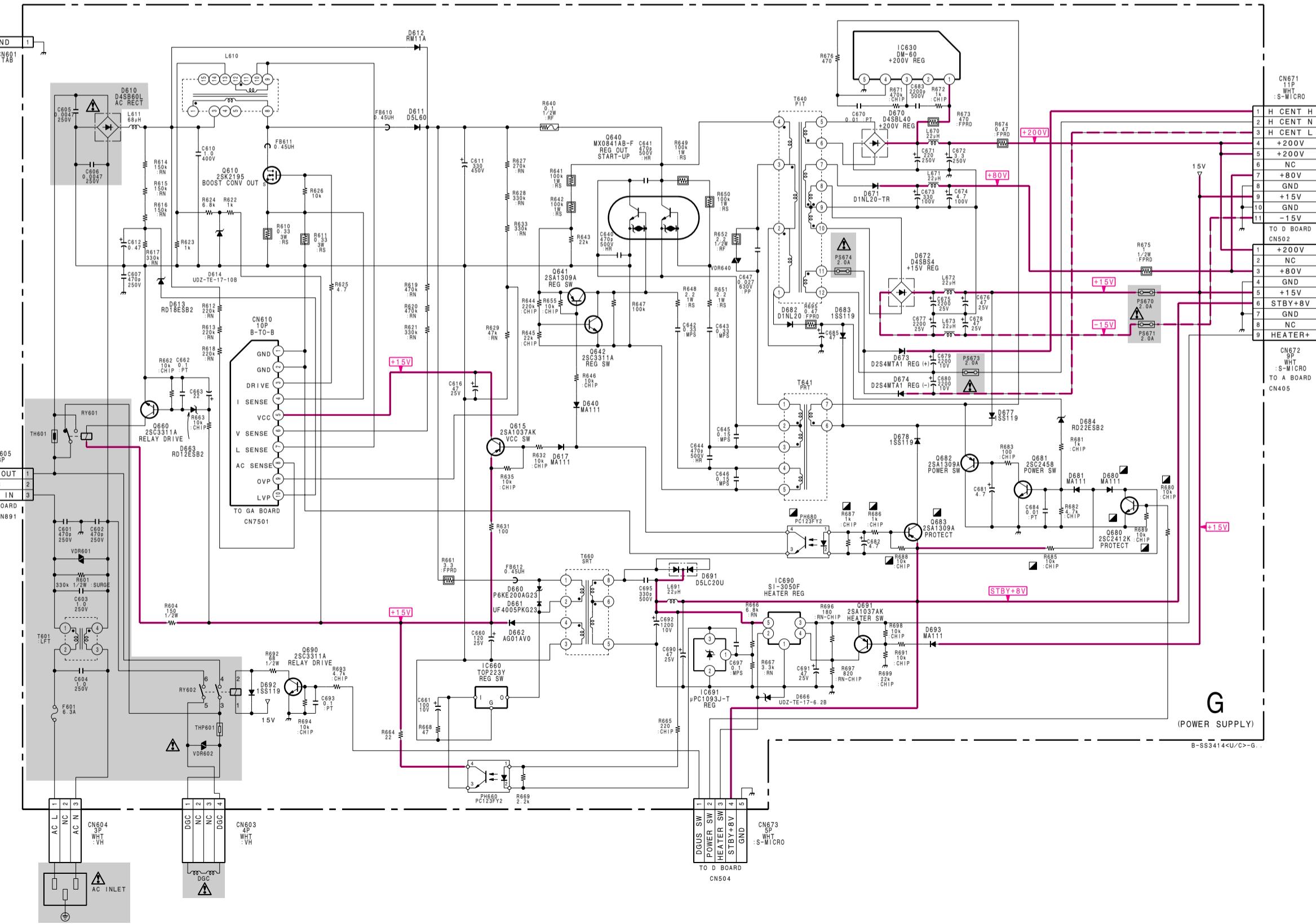
BOARD VOLTAGE LIST

Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]
5	1.1		11	0
6	4.2		12	11.2
7	0		15	0
			16	8.4
5	4.8		19	9.2
6	4.8			
		Q003	B	5.1
1	0.4		C	0
3	0		E	5.7
7	1.5			
8	4.8		Q005	
			B	2.5
1	-0.1		C	0
2	4.7		E	3.1
3	4.5			
5	0.3	Q501	B	11.2
6	0.3		C	13.8
7	4.5		E	10.8
		Q502	B	0.2
1	4.0		C	11.2
3	3.0	Q503	B	11.2
4	2.8		E	10.9
5	2.3	Q504	B	2.5
6	2.6		C	12.0
7	0.6		E	2.5
9	4.8	Q505	B	2.5
10	4.8		E	2.4
12	5.4	Q506	B	-14.0
14	4.5		C	-0.2
15	4.5		E	-14.0
16	5.4	Q507	G	197.4
17	1.0		D	41.8
18	0	Q508	B	-1.4
19	5.1		C	41.0
20	3.7	Q509	B	0
23	0.8		C	14.1
24	2.5			
25	-0.1	Q510	B	4.5
26	4.0		E	3.9
27	4.0	Q511	B	3.2
28	4.4		C	33.5
			E	2.6
1	0	Q517	B	4.6
2	4.9		E	5.1
8	0.6	Q522	G	0
9	3.6		D	15.2
10	4.9	Q523	G	4.7
11	0		D	0
13	5.7	Q524	G	4.7
			D	0
1	3.5	Q525	G	4.7
3	3.5		D	0
5	2.7	Q527	G	4.7
9	0		D	0
10	0.1	Q528	G	4.7
12	4.9		D	0
13	4.9	Q660	B	4.2
14	3.2		C	0
15	3.9		E	4.2
		Q661	B	0
1	0.5		C	4.2
2	4.2	Q701	B	5.7
3	0.5		C	36.0
4	0.5		E	5.1
5	0	Q703	B	37.9
6	0		E	37.4
8	0	Q704	B	37.4
9	0		E	37.0
13	0	Q705	B	36.0
			E	36.6
1	41.4	Q706	B	36.6
2	41.4		E	37.0
3	33.7	Q707	B	-0.6
4	42.3		C	-5.0
5	48.3		E	0
		Q708	B	0.6
1	4.5		C	477.0
2	0	Q901	B	0.1
3	0		C	9.9
5	0	Q902	B	9.0
6	0		C	0
7	-10.0		E	9.0
		Q904	B	8.6
1	14.2		C	13.0
2	14.2		E	8.4
3	0	Q905	B	8.6
4	3.6		E	8.4
6	3.0	Q908	G	196.6
7	3.0		D	40.1
8	-0.7	Q909	G	8.4
9	-0.7		D	40.4
1	1.2			
2	1.6			
3	1.6			
5	2.8			
6	2.8			
7	2.8			
1	9.3			
2	5.6			
4	5.0			
6	1.1			
7	0.9			
8	9.3			



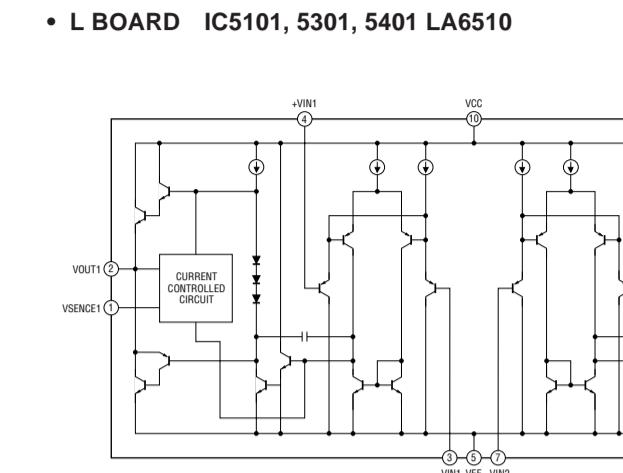
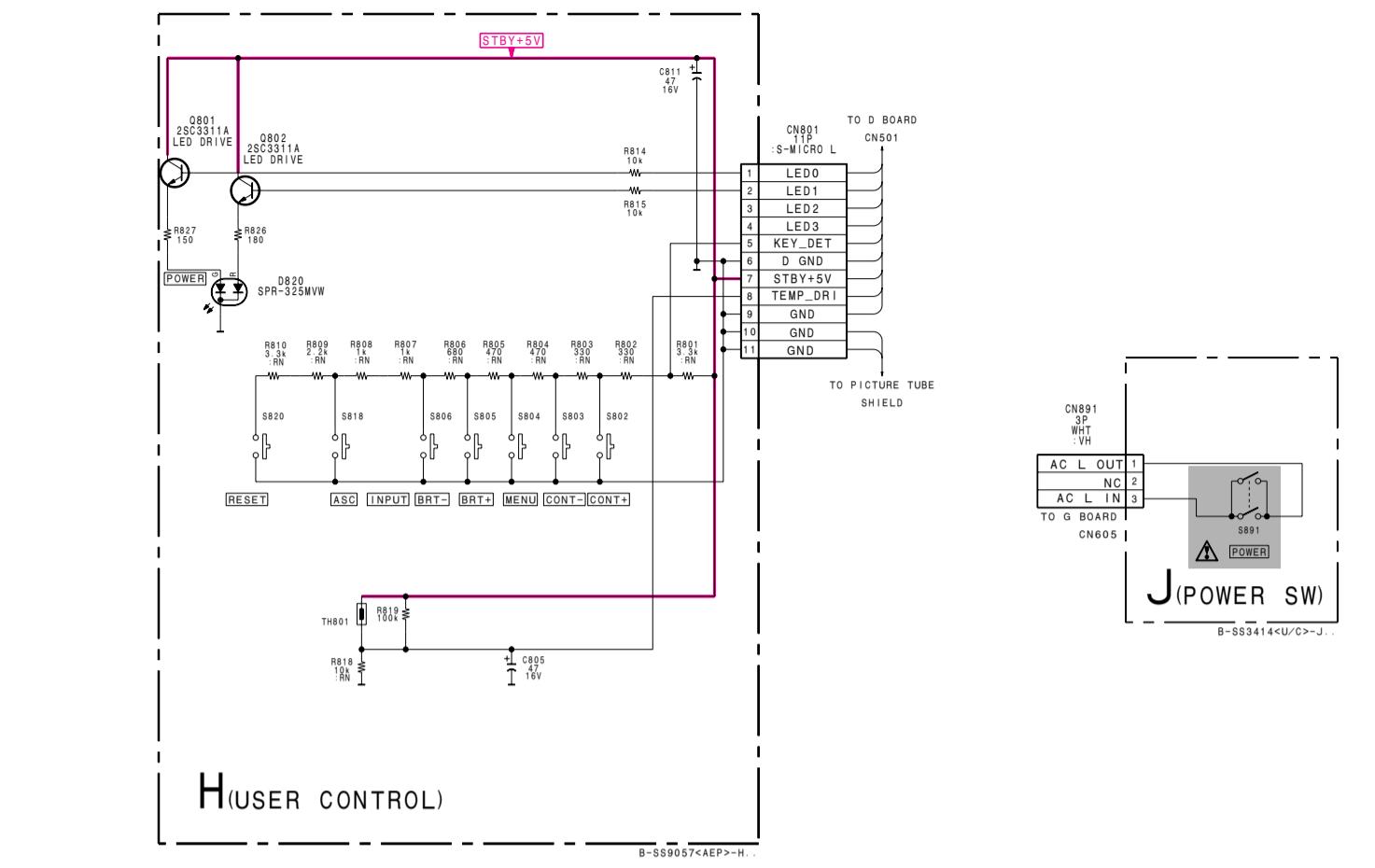
• GA BOARD VOLTAGE LIST

Ref.	Pin No.	Voltage [V]
IC7501	1	2.6
	2	2.5
	3	1.7
	4	0.2
	5	0
	7	8.6



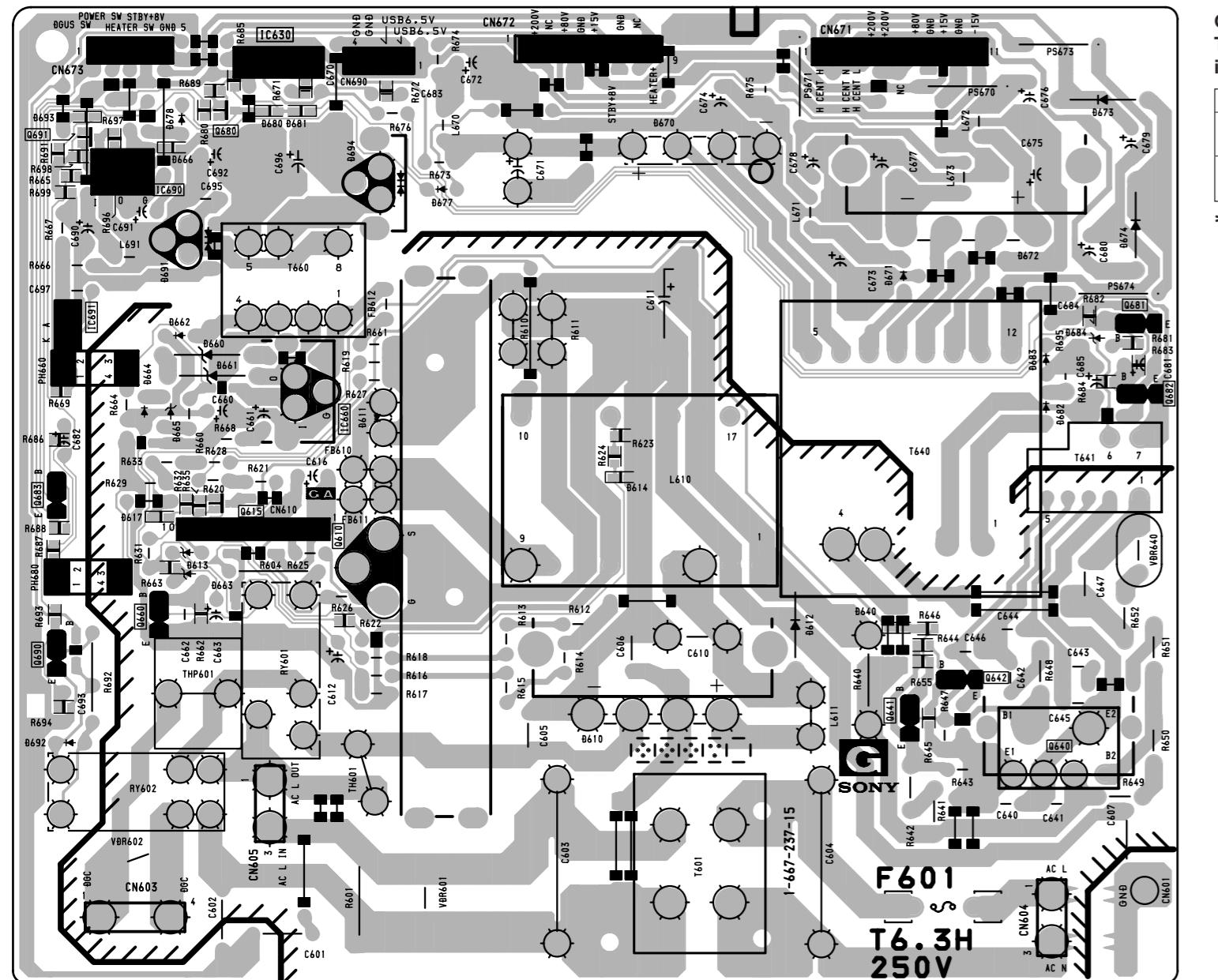
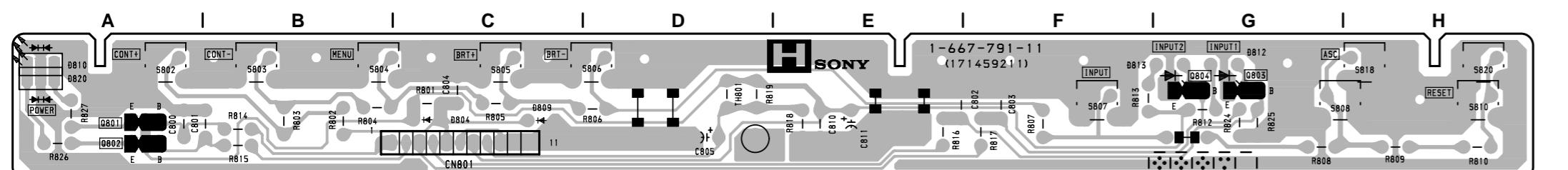
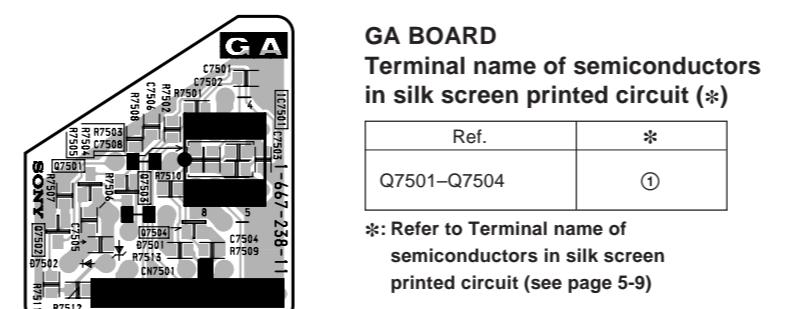
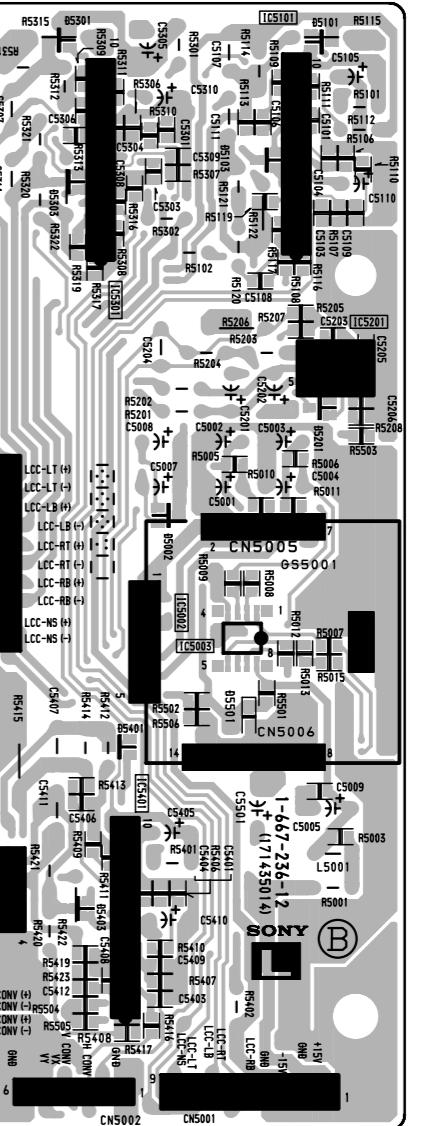
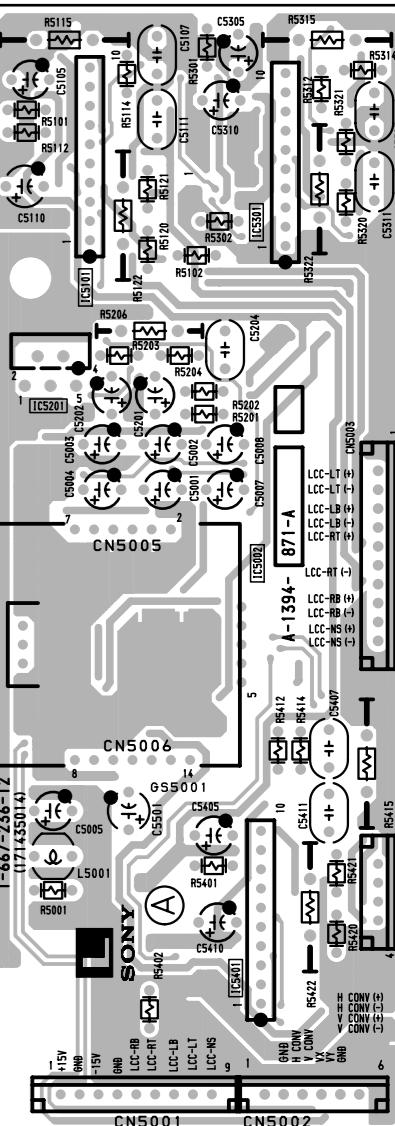
• G BOARD VOLTAGE LIST

Ref.	Pin No.	Voltage [V]
IC630	3	2.5
	4	11.6
IC660	IN OUT	6.1 410.0
IC690	2	5.0
	3	6.7
	4	5.3
PH660	1	4.5
	2	3.3
	3	6.1
	4	16.7
PH680	1	1.3
	2	0.1
	3	0
	4	0.1
Q610	G D S	8.7 102.4 0.2
Q615	B C E	13.6 14.2 14.3
Q640	B1 C1 B2 C2 E2	-2.0 199.2 196.8 408.0 199.2
Q641	B C	1.1 -2.0
Q642	B C	-1.8 -2.0
Q660	B C	0.9 0.3
Q680	B C	0.8 0
Q681	B C	0.3 11.7
Q682	B C	11.7 11.7
Q683	B C	7.5 8.3
Q690	B C	0 15.0
Q691	B C E	8.6 5.3 6.7

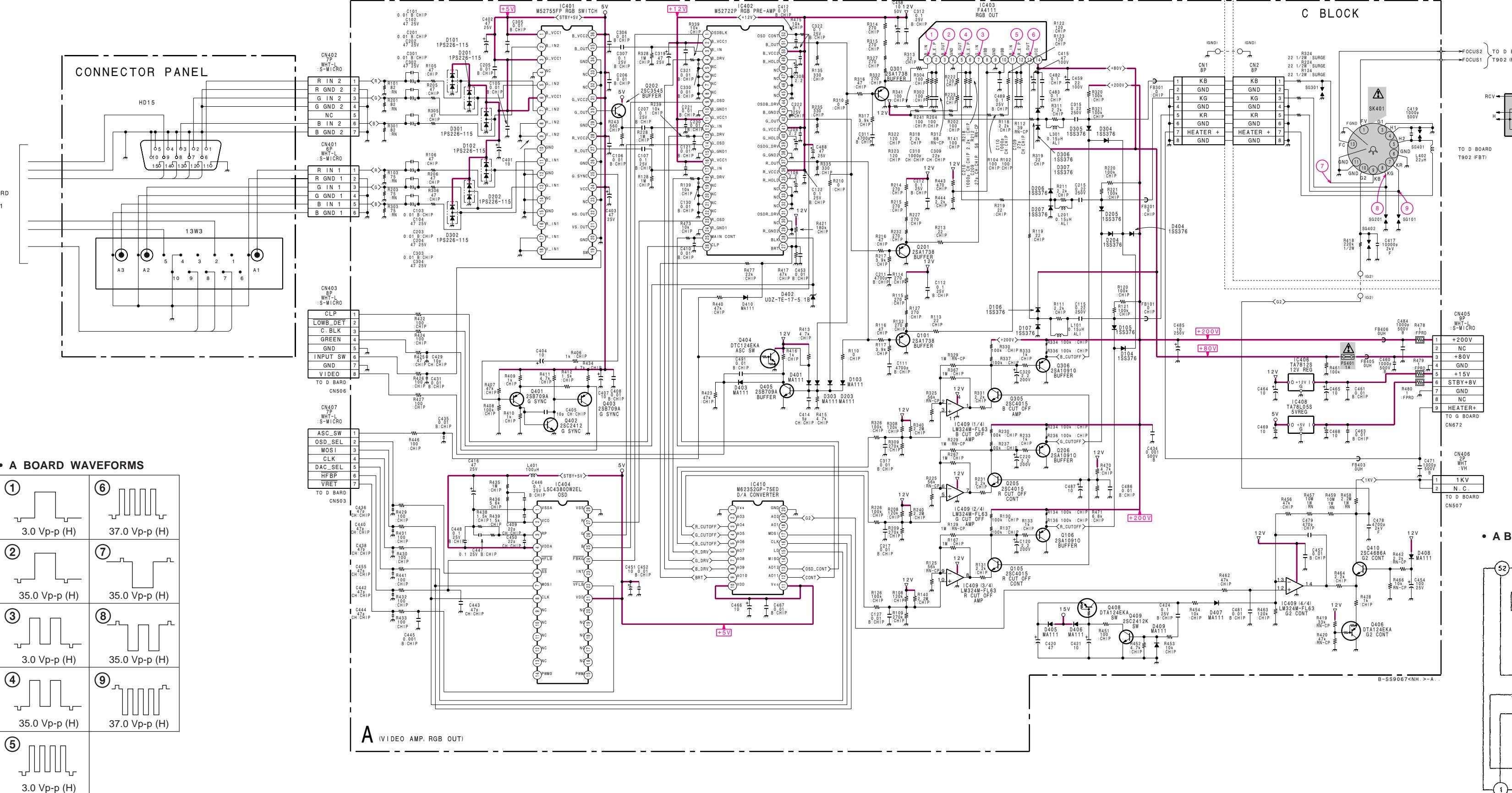


• L BOARD VOLTAGE LIST

Ref.	Pin No.	Voltage [V]
GS5001	5	2.8
	6	2.8
IC5101	1	1.0
	2	1.2
	3	1.2
	4	1.2
	6	1.2
	7	1.2
	8	-0.2
	9	-0.2
IC5201	1	1.2
	2	1.2
	4	1.1
IC5301	1	-0.2
	2	-0.2
	3	1.2
	4	1.2
	6	1.2
	7	1.2
	8	0.4
	9	0.4
IC5401	1	0.6
	2	0.6
	3	3.4
	4	3.4
	6	1.8
	7	1.8
	8	0.4
	9	0.4

G BOARD**H BOARD****GA BOARD****L BOARD (Conductor Side)****L BOARD (Component Side)**

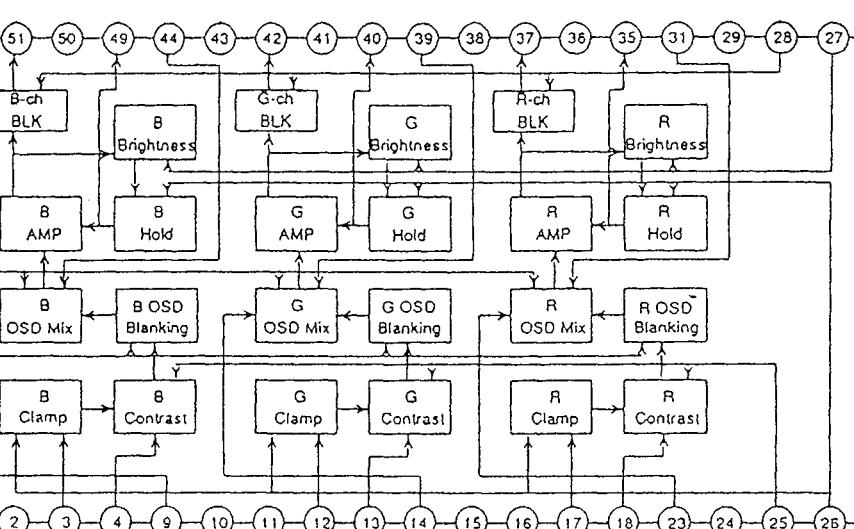
(3) Schematic Diagram of A Board



• A BOARD VOLTAGE LIST

Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]
IC402	1	1.1	Q106	B	112.6
	3	2.8	E	E	113.3
	4	3.7		9	1.1
Q201	B	2.7		12	1.1
	E	3.5		13	1.1
Q205	B	2.7		17	2.8
	C	7.4		18	3.9
E	E	109.9		23	1.1
		6.8		25	3.3
Q206	B	109.9		26	0.7
	E	110.4		27	2.4
Q301	B	2.7		35	4.4
	E	3.4		37	2.7
Q305	B	2.7		40	4.4
C	C	7.4		42	2.7
E	E	113.1		49	4.4
		6.8		51	2.7
Q306	B	113.1		52	2.1
	E	113.7			
IC403	1	3.4			
	2	2.8			
	3	53.6			
Q401	B	3.6			
	C	52.7			
	E	4.3			
Q406	B	7.9			
	E	9.0			
Q410	B	9.7			
	C	484.0			
	E	9.1			
SK401	KR	87.0			
	KG	87.0			
	KB	87.0			
Q105	B	474.0			
	C	7.3			
	H2	112.6			
		6.5			

• A BOARD IC402 M52722P



AVIDEO AMP
RGB OUT

— A BOARD (Conductor Side) —

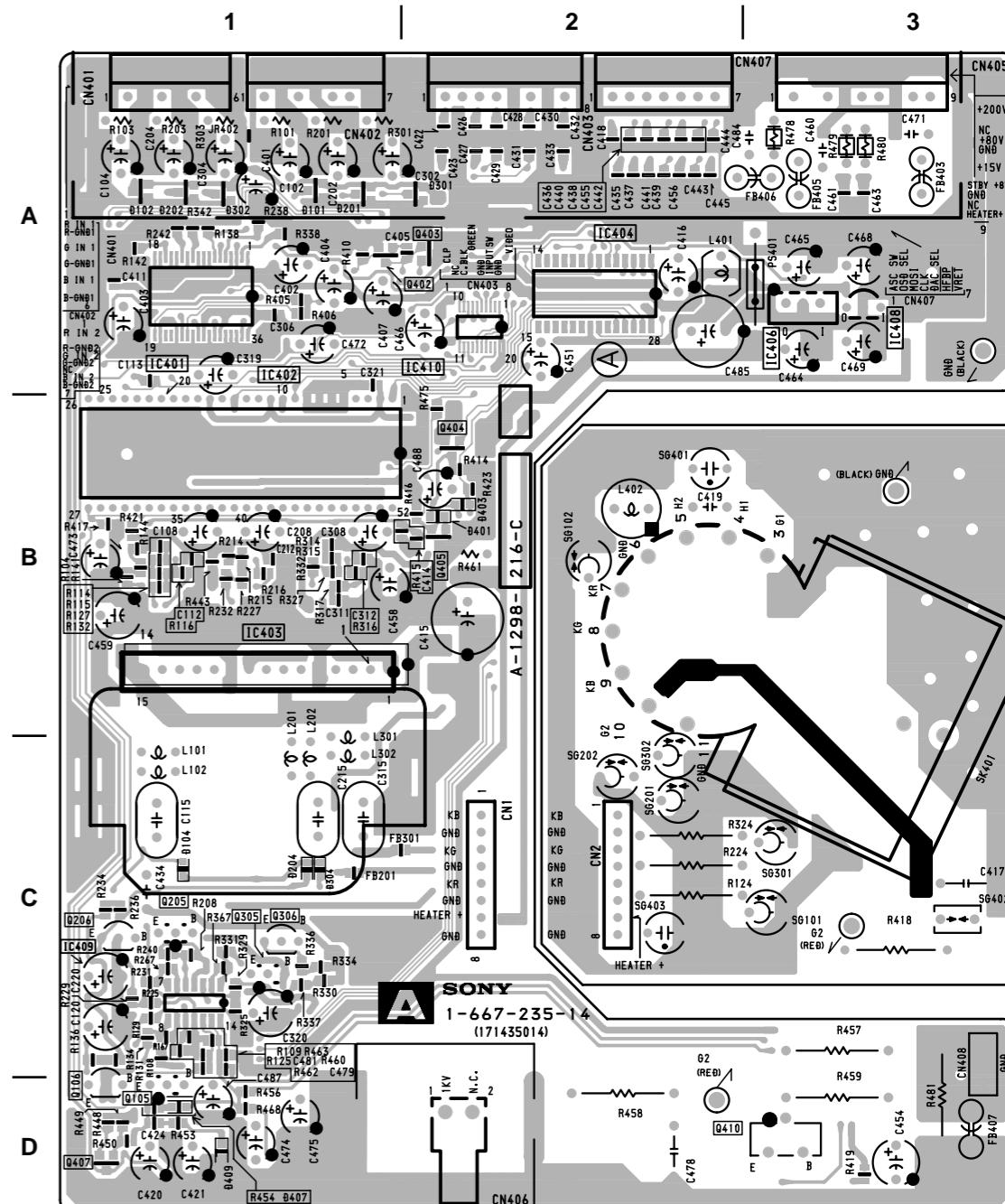
• A BOARD
SEMICONDUCTOR
LOCATION

IC	
(Conductor Side)	(Component Side)
IC401	A-1
IC402	B-3
IC403	B-3
IC404	A-2
IC406	A-1
IC408	A-3
IC409	C-1
IC410	A-2

TRANSISTOR	
(Conductor Side)	(Component Side)*
Q101	B-3 ①
Q105	D-3 -
Q106	D-3 -
Q201	B-3 ①
Q202	A-3 -
Q205	C-3 -
Q206	C-3 -
Q301	B-3 ①
Q305	C-3 -
Q306	C-3 -
Q401	A-2 ①
Q402	A-1 ②
Q403	A-2 ②
Q404	B-2 ②
Q405	B-2 ②
Q406	D-1 ①
Q407	D-1 ②
Q408	D-3 ①
Q409	D-3 ①
Q410	D-1 -

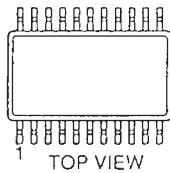
DIODE	
(Conductor Side)	(Component Side)*
D101	A-1 ⑦
D102	A-1 ⑦
D103	B-3 ③
D104	C-3 ③
D105	B-3 ③
D106	B-3 ③
D107	B-3 ③
D201	A-1 ⑦
D202	A-1 ⑦
D203	B-3 ③
D205	C-3 ③
D206	B-3 ③
D207	B-3 ③
D301	A-2 ⑦
D302	B-3 ③
D303	B-3 ③
D304	C-1 ③
D305	C-2 ③
D306	B-2 ③
D307	B-3 ③
D401	B-3 ③
D402	C-3 ③
D404	D-3 ③
D405	D-3 ③
D406	D-3 ③
D407	D-1 ③
D408	D-1 ③
D409	D-1 ③
D410	B-2 ③

— A BOARD (Component Side) —

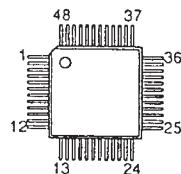


5-4. SEMICONDUCTORS

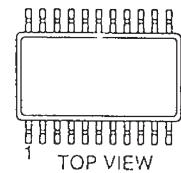
BA9756FS-E2
M62352GP-75E
M62352GP-75ED



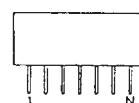
CXA2043Q



CXA2044M
LSC4380DW2EL

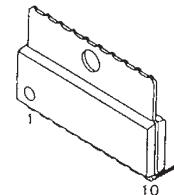


DM-60



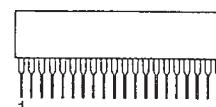
MARKING SIDE VIEW

LA6510

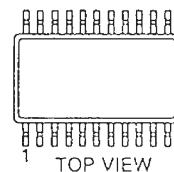


LA7841L

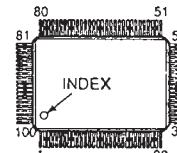
MARKING SIDE VIEW



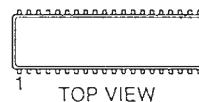
LM324M
TC74HCT04AF



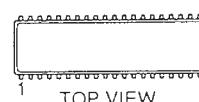
MB90553PF-G-112-BND



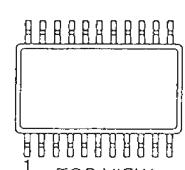
MC33262P
MM1170BFB



M52722P



M52755FP

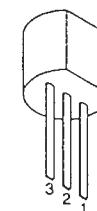


NJM4558M
TC7W04FU
μPC4558G2
24LC16BT/SN
24LC21A/SN

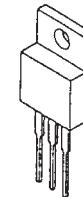
DTA114GKAT146

DTA124EKA-T146
DTC114GKA
DTC114GKAT146
DTC124EK
DTC124EKA-T146
2SA1036K-Q
2SA1036K-T-146-Q
2SA1037AK-T146-QR
2SA1037AK-T146-R
2SA1037K-T-146-QR
2SA1162G
2SA1462-Y33
2SA1738-TX
2SB709A-QRS-TX
2SC1623-L5L6
2SC2411K-CQ
2SC2411K-T-146-CQ
2SC2412K-T-146-QR
2SC3545-T43

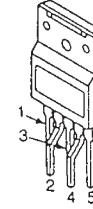
NJM78L05A
NJM78L09A
TA78L05S
TA78L09S



NJM78M09FA
TA7805S
TA7812S



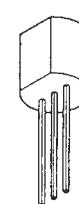
SI-3050F



μPC1093J



μPC78L05J



2SA1175-HFE

2SA1309A-QRSTA
2SC2784
2SC2785-HFE
2SC3311A-QRSTA

LETTER SIDE



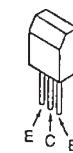
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2SC3421-Y



2SC2362KG-AA



2SC3209LK

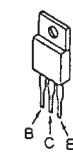


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2SC4686A (LBSONY)
2SJ449
2SJ449 (1)
2SJ449 (2)

2SA1049-GR
2SC2458-YGR
2SC2459-GR



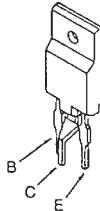
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2SC4015TV2

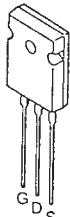


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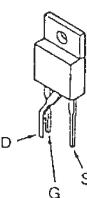


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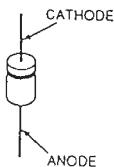
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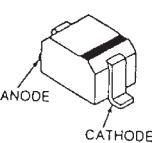


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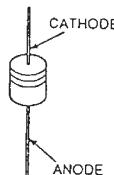
DTZ-TT11-16B

**DTZ10B
DTZ13B
DTZ24B
DTZ33B
DTZ4.7C
DTZ5.1B
MA111
RD12SB2
RD5.6SB
UDZ-TE-17-10B
UDZ-TE-17-12B
UDZ-TE-17-13B
UDZ-TE-17-16B
UDZ-TE-17-24B
UDZ-TE-17-33B
UDZ-TE-17-4.7B
UDZ-TE-17-5.1B
UDZ-TE-17-5.6B
UDZ-TE-17-6.2B
UDZ-TE-17-7.5B**



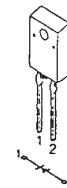
D1NL20-TR

**GMA01
RD12ES-B2
RD16ES-B2
RD16ES-B3
RD18ES-B2
RD22ES-B2
RD5.1ES-B2
RD6.2ESB2
1SS119-25TD
1SS119-25
1SS120TD**



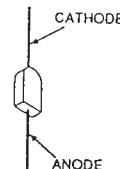
FMQ-G5GS

D5L60

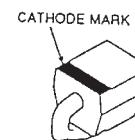


RM11A

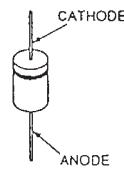
RM11C



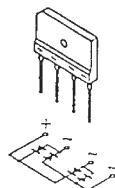
SB560



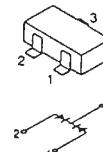
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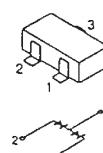
**D4SBS4
D4SBS4-F
D4SBL40
D4SB60L**



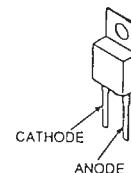
**MA151WK
1SS184**



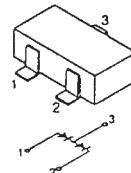
**MA153
1SS226**



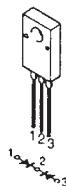
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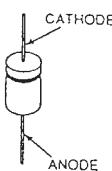
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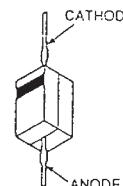
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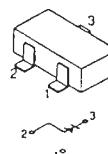
**EGP20G
ERA34-10
RGP02-17EL-6433
RGP02-17PKG23
RGP02-20EG23
RGP02-20EL-6394
RGP15GPKG23
UF4005PKG23**



P6KE200AG23



RD6.2M-B1



EXPLODED VIEWS

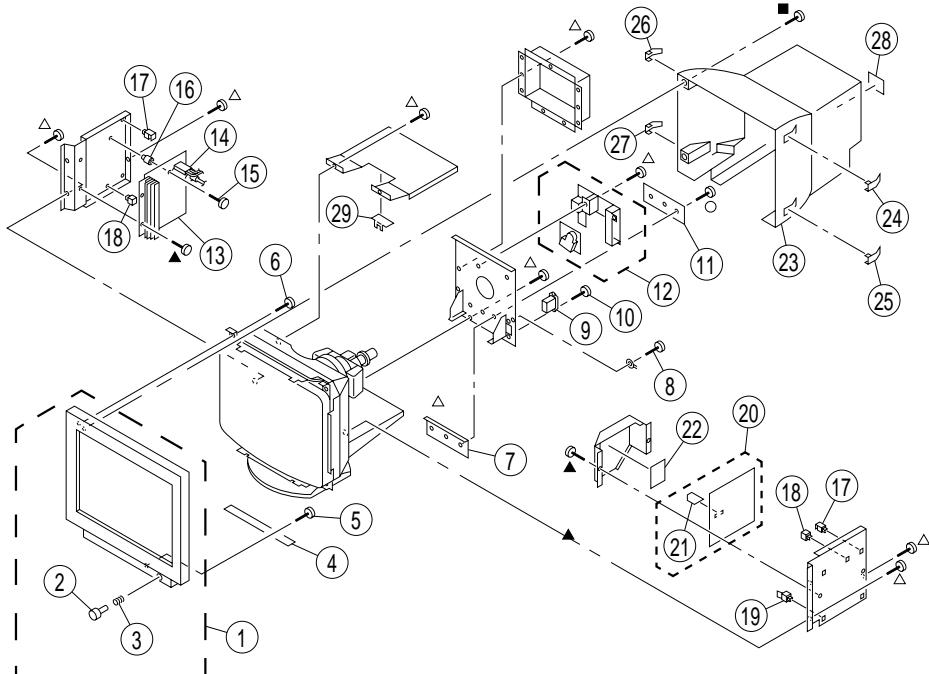
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine 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 trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

6-1. CHASSIS

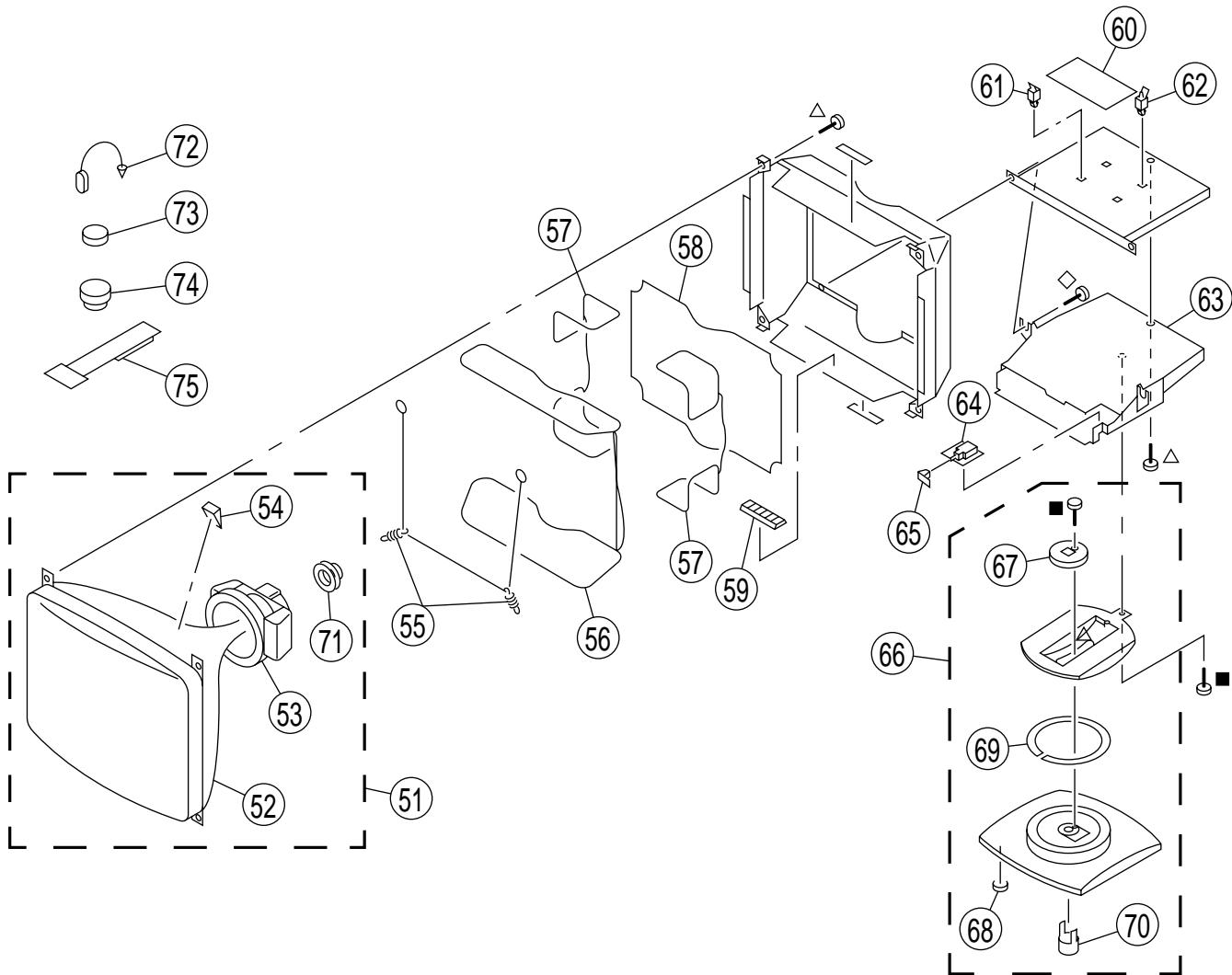
▲ 7-685-647-79	+BVTP 3X10
■ 7-685-663-71	+BVTP 4X16
○ 7-685-872-09	+BVTT 3X8
△ 7-685-881-09	+BVTT 4X8



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
1	X-4035-342-1	BEZEL ASSY [03N/03S]	2.3	22	* 4-061-494-01	SHEET, INSULATE	
1	X-4035-486-1	BEZEL ASSY [43N/43S]	2.3	23	X-4035-382-1	CABINET ASSY [03N/03S]	
2	4-063-129-01	BUTTON, POWER		23	X-4035-488-1	CABINET ASSY [43N/43S]	
3	3-653-339-01	SPRING, COMPRESSION		24	4-063-133-01	COVER (RIGHT UPPER), SCREW	[03N/03S]
4	* 8-933-283-00	H BOARD, COMPLETE		24	4-063-133-11	COVER (RIGHT UPPER), SCREW	[43N/43S]
5	4-029-432-01	SCREW (3x12), (+) BVWHTP		25	4-063-135-01	COVER (RIGHT LOWER), SCREW	[03N/03S]
6	4-365-808-01	SCREW (5), TAPPING		25	4-063-135-11	COVER (RIGHT LOWER), SCREW	[43N/43S]
7	1-694-381-11	TREMINAL BOARD ASSY, I/O		26	4-063-134-01	COVER (LEFT UPPER), SCREW	[03N/03S]
8	4-389-025-01	SCREW (M4) (EXT TOOTH WASHER)		26	4-063-134-11	COVER (LEFT UPPER), SCREW	[43N/43S]
9	Δ 1-251-382-12	INLET, AC 3P (WITH NOISE FILTE)		26	4-063-136-01	COVER (LEFT LOWER), SCREW	[03N/03S]
10	4-052-345-01	SCREW, (3x8) (+K), TAPPING		27	4-063-136-11	COVER (LEFT LOWER), SCREW	[43N/43S]
11	* 4-063-091-01	SHEET, CONNECTOR		27	4-063-137-01	LABEL, INFORMATION [03N]	
12	* 8-933-306-00	A BOARD, COMPLETE		28	* 4-064-137-11	LABEL, INFORMATION [03S]	
13	* 8-933-307-00	D BOARD, COMPLETE		28	* 4-064-137-21	LABEL, INFORMATION [43N]	
14	Δ X-4035-170-1	TRANSFOMER ASSY, FLYBACK (NX-4142/J1D4)		28	* 4-064-137-31	LABEL, INFORMATION [43S]	
15	4-062-115-01	SCREW +P 3.5x20 TYPE2		29	4-063-711-01	SUPPORT, HV CABLE	
16	* 4-060-359-01	HOLDER, PRINTED CIRCUIT BOARD					
17	* 3-701-903-11	HOLDER, PRINTED CIRCUIT BOARD					
18	* 4-382-848-01	HOLDER, PRINTED CIRCUIT BOARD					
19	* 3-703-141-00	HOLDER, PRINTED CIRCUIT BOARD					
20	* 8-933-277-00	G BOARD, COMPLETE	21				
21	* 8-933-269-00	GA BOARD, COMPLETE					

6-2. PICTURE TUBE

- 7-685-663-71 +BVTP 4X16
- △ 7-685-881-09 +BVTT 4X8
- ◇ 7-685-883-01 +BVTT 4X12



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
51	△ 8-738-796-81	ITC ASSY (21SRG-R2) [03N/43N]	52-54, 71	63	* 4-061-603-31	COVER, BOTTOM [03N/03S]	
51	△ 8-738-799-81	ITC ASSY (21SRG-RS2) [03S/43S]	52-54, 71	63	* 4-061-603-51	COVER, BOTTOM [43N/43S]	
52	△ 8-738-796-00	PICTURE TUBE (21SRG)	[03N/43N Japan model]	64	* 8-933-279-00	J BOARD, COMPLETE	
52	△ 8-738-796-05	PICTURE TUBE (21SRG)	[03N/43N U/C, AEP model]	65	* 4-394-972-21	CAP, POWER	
52	△ 8-738-799-05	PICTURE TUBE (21SRG)	[03S/43S]	66	X-4035-384-1	STAND ASSY [03N/03S]	67-70
53	△ 8-451-493-31	DEFLECTION YOKE (Y21SRL-M3)		66	X-4035-590-2	STAND ASSY [43N/43S]	67-70
54	4-050-492-01	SPACER, DY		67	4-061-396-01	STOPPER (A)	
55	* 4-047-316-01	SPRING, TENSION		68	4-047-474-01	FOOT, RUBBER	
56	△ 1-416-437-11	COIL, DEMAGNETIC		69	4-060-339-01	RING, TILT SWIVEL	
57	△ 1-416-140-21	COIL, LANDING CORRECTION		70	4-062-381-01	STOPPER (B)	
58	△ 1-416-438-21	COIL, LANDING CORRECTION		71	△ 1-452-932-11	NECK ASSEMBLY, PICTURE TUBE	
59	4-062-670-03	SPACER, PICTURE TUBE		72	4-308-870-00	CLIP, LEAD WIRE	
60	* 8-933-263-00	L BOARD, COMPLETE		73	1-452-032-00	MAGNET, DISK:10mmφ	
61	* 4-321-929-00	HOLDER, PRINTED CIRCUIT BOARD		74	1-452-094-00	MAGNET, ROTATABLE DISK:15mmφ	
62	* 3-703-141-00	HOLDER, PRINTED CIRCUIT BOARD		75	4-059-493-01	PERMALLOY (90), CONV.CORRECT	

SECTION 7

A

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.

- 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.

- CAPACITORS
MF : μ F
- COILS
UH : μ H

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
	* 8-933-306-00	A BOARD, COMPLETE		C230	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
		*****		C301	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
	4-382-854-11	SCREW (M3X10), P, SW (+) (IC403)		C302	1-104-664-11	ELECT 47MF	20% 25V
		<CAPACITOR>		C303	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C101	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C304	1-104-664-11	ELECT 47MF	20% 25V
C102	1-104-664-11	ELECT 47MF	20% 25V	C305	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C103	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C306	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C104	1-104-664-11	ELECT 47MF	20% 25V	C307	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C105	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C308	1-107-903-11	ELECT 2.2MF	20% 50V
C106	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C309	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
C107	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C310	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V
C108	1-107-903-11	ELECT 2.2MF	20% 50V	C311	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C109	1-163-237-11	CERAMIC CHIP 27PF	5% 50V	C312	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C110	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V	C315	1-104-514-11	FILM 0.22MF	10% 250V
C111	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	C317	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C112	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C319	1-107-888-11	ELECT 47MF	20% 25V
C115	1-104-514-11	FILM 0.22MF	10% 250V	C320	1-107-949-11	ELECT 2.2MF	20% 200V
C120	1-107-949-11	ELECT 2.2MF	20% 200V	C321	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C121	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C322	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C122	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C330	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C127	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C401	1-126-964-11	ELECT 10MF	20% 50V
C130	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C402	1-104-664-11	ELECT 47MF	20% 25V
C201	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C403	1-104-664-11	ELECT 47MF	20% 25V
C202	1-104-664-11	ELECT 47MF	20% 25V	C404	1-126-964-11	ELECT 10MF	20% 50V
C203	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C405	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C204	1-104-664-11	ELECT 47MF	20% 25V	C407	1-126-964-11	ELECT 10MF	20% 50V
C205	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C408	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C206	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C409	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
C207	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C410	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C208	1-107-903-11	ELECT 2.2MF	20% 50V	C412	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C209	1-163-237-11	CERAMIC CHIP 27PF	5% 50V	C414	1-163-239-11	CERAMIC CHIP 33PF	5% 50V
C210	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V	C415	1-128-562-11	ELECT 47MF	20% 100V
C211	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	C416	1-104-664-11	ELECT 47MF	20% 25V
C212	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C417	1-115-349-51	CERAMIC 0.01MF	2KV
C215	1-104-514-11	FILM 0.22MF	10% 250V	C419	1-162-318-11	CERAMIC 0.001MF	10% 500V
C217	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C420	1-126-967-11	ELECT 47MF	20% 50V
C220	1-107-949-11	ELECT 2.2MF	20% 200V	C421	1-126-964-11	ELECT 10MF	20% 50V
C221	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C424	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C222	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C429	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
				C431	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
				C434	1-162-318-11	CERAMIC 0.001MF	10% 500V



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C435	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	D102	8-719-062-51	DIODE 1PS226-115	
C436	1-163-243-11	CERAMIC CHIP 47PF	5% 50V	D103	8-719-404-49	DIODE MA111	
C438	1-163-243-11	CERAMIC CHIP 47PF	5% 50V	D104	8-719-052-12	DIODE 1SS376TE-17	
C440	1-163-243-11	CERAMIC CHIP 47PF	5% 50V	D105	8-719-052-12	DIODE 1SS376TE-17	
C442	1-163-243-11	CERAMIC CHIP 47PF	5% 50V	D106	8-719-052-12	DIODE 1SS376TE-17	
C443	1-163-243-11	CERAMIC CHIP 47PF	5% 50V	D107	8-719-052-12	DIODE 1SS376TE-17	
C444	1-163-243-11	CERAMIC CHIP 47PF	5% 50V	D201	8-719-062-51	DIODE 1PS226-115	
C445	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	D202	8-719-062-51	DIODE 1PS226-115	
C446	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	D203	8-719-404-49	DIODE MA111	
C447	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	D204	8-719-052-12	DIODE 1SS376TE-17	
C448	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	D205	8-719-052-12	DIODE 1SS376TE-17	
C450	1-163-235-11	CERAMIC CHIP 22PF	5% 50V	D206	8-719-052-12	DIODE 1SS376TE-17	
C451	1-126-964-11	ELECT 10MF	20% 50V	D207	8-719-052-12	DIODE 1SS376TE-17	
C452	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	D301	8-719-062-51	DIODE 1PS226-115	
C453	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	D302	8-719-062-51	DIODE 1PS226-115	
C454	1-104-665-11	ELECT 100MF	20% 25V	D303	8-719-404-49	DIODE MA111	
C455	1-163-243-11	CERAMIC CHIP 47PF	5% 50V	D304	8-719-052-12	DIODE 1SS376TE-17	
C457	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	D305	8-719-052-12	DIODE 1SS376TE-17	
C458	1-126-964-11	ELECT 10MF	20% 50V	D306	8-719-052-12	DIODE 1SS376TE-17	
C459	1-107-930-91	ELECT 22MF	20% 100V	D307	8-719-052-12	DIODE 1SS376TE-17	
C460	1-162-318-11	CERAMIC 0.001MF	10% 500V	D401	8-719-404-49	DIODE MA111	
C461	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	D402	8-719-976-99	ZENER DIODE DTZ5.1B	
C463	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	D403	8-719-404-49	DIODE MA111	
C464	1-107-906-11	ELECT 10MF	20% 50V	D404	8-719-052-12	DIODE 1SS376TE-17	
C465	1-107-906-11	ELECT 10MF	20% 50V	D405	8-719-404-49	DIODE MA111	
C466	1-126-964-11	ELECT 10MF	20% 50V	D406	8-719-404-49	DIODE MA111	
C467	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	D407	8-719-404-49	DIODE MA111	
C468	1-126-964-11	ELECT 10MF	20% 50V	D408	8-719-404-49	DIODE MA111	
C469	1-126-964-11	ELECT 10MF	20% 50V	D409	8-719-404-49	DIODE MA111	
C471	1-162-318-11	CERAMIC 0.001MF	10% 500V	D410	8-719-404-49	DIODE MA111	
C478	1-115-350-51	CERAMIC 0.0047MF	2KV	<FERRITE BEAD>			
C479	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	FB101	1-216-295-91	SHORT	0
C481	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	FB201	1-216-295-91	SHORT	0
C482	1-115-339-11	CERAMIC CHIP 0.1MF	10% 50V	FB301	1-216-295-91	SHORT	0
C483	1-115-339-11	CERAMIC CHIP 0.1MF	10% 50V	FB403	1-412-911-31	FERRITE	0UH
C484	1-162-318-11	CERAMIC 0.001MF	10% 500V	FB405	1-412-911-31	FERRITE	0UH
C485	1-107-652-11	ELECT 10MF	20% 250V	FB406	1-412-911-31	FERRITE	0UH
C486	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	<IC>			
C487	1-126-964-11	ELECT 10MF	20% 50V	IC401	8-759-522-86	IC M52755FP-TP	
C488	1-104-664-11	ELECT 47MF	20% 25V	IC402	8-759-468-63	IC M52722P	
C489	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	IC403	8-749-013-74	IC FA4111	
C491	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	IC404	8-759-492-78	IC LSC4380DW2EL	
<CONNECTOR>				IC406	8-759-231-58	IC TA7812S	
CN401*1-564-521-11 PLUG, CONNECTOR 6P CN402*1-564-522-11 PLUG, CONNECTOR 7P CN403 1-564-523-11 PLUG, CONNECTOR 8P CN405 1-564-524-11 PLUG, CONNECTOR 9P CN406*1-766-179-11 PIN, CONNECTOR (PC BOARD) 2P				IC408	8-759-239-14	IC TA78L05S	
CN407*1-564-522-11 PLUG, CONNECTOR 7P				IC409	8-759-502-82	IC LM324M	
<DIODE>				IC410	8-759-635-27	IC M62352GP-75E	
D101 8-719-062-51 DIODE 1PS226-115				<COIL>			
				L101	1-412-478-11	INDUCTOR	0.15UH
				L201	1-412-478-11	INDUCTOR	0.15UH

6558-03N/03S/43N/43S

A

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

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

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
L301	1-412-478-11	INDUCTOR	0.15UH	R126	1-216-097-91	RES,CHIP	100K 5% 1/10W
L401	1-408-421-00	INDUCTOR	100UH	R127	1-216-035-00	RES,CHIP	270 5% 1/10W
L402	1-412-529-11	INDUCTOR	22UH	R128	1-216-121-91	RES,CHIP	1M 5% 1/10W
			<IC LINK>	R129	1-218-776-11	METAL CHIP	1M 0.50%1/10W
			PS401▲1-533-590-31 LINK, IC (1A/90V AC, 60V DC)	R130	1-216-097-91	RES,CHIP	100K 5% 1/10W
				R131	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
			<TRANSISTOR>	R132	1-216-035-00	RES,CHIP	270 5% 1/10W
Q101	8-729-112-65	TRANSISTOR 2SA1462-Y33		R133	1-216-049-91	RES,CHIP	1K 5% 1/10W
Q105	8-729-041-66	TRANSISTOR 2SC4015TV2		R134	1-216-097-91	RES,CHIP	100K 5% 1/10W
Q106	8-729-200-17	TRANSISTOR 2SA1091-O		R135	1-216-037-00	RES,CHIP	330 5% 1/10W
Q201	8-729-112-65	TRANSISTOR 2SA1462-Y33		R136	1-216-097-91	RES,CHIP	100K 5% 1/10W
Q202	8-729-107-31	TRANSISTOR 2SC3545-T43		R137	1-216-097-91	RES,CHIP	100K 5% 1/10W
Q205	8-729-041-66	TRANSISTOR 2SC4015TV2		R139	1-216-073-00	RES,CHIP	10K 5% 1/10W
Q206	8-729-200-17	TRANSISTOR 2SA1091-O		R140	1-216-129-00	RES,CHIP	2.2M 5% 1/10W
Q301	8-729-112-65	TRANSISTOR 2SA1462-Y33		R141	1-216-025-91	RES,CHIP	100 5% 1/10W
Q305	8-729-041-66	TRANSISTOR 2SC4015TV2		R144	1-216-295-91	SHORT	0
Q306	8-729-200-17	TRANSISTOR 2SA1091-O		R167	1-216-121-91	RES,CHIP	1M 5% 1/10W
Q401	8-729-216-22	TRANSISTOR 2SA1162-G		R201	1-215-395-00	METAL	82 1% 1/4W
Q402	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R202	1-216-025-91	RES,CHIP	100 5% 1/10W
Q403	8-729-216-22	TRANSISTOR 2SA1162-G		R203	1-215-395-00	METAL	82 1% 1/4W
Q404	8-729-901-00	TRANSISTOR DTC124EK		R204	1-216-025-91	RES,CHIP	100 5% 1/10W
Q405	8-729-216-22	TRANSISTOR 2SA1162-G		R205	1-216-017-91	RES,CHIP	47 5% 1/10W
Q406	8-729-027-31	TRANSISTOR DTA124EKA-T146		R206	1-216-017-91	RES,CHIP	47 5% 1/10W
Q408	8-729-027-31	TRANSISTOR DTA124EKA-T146		R208	1-216-099-00	RES,CHIP	120K 5% 1/10W
Q409	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R209	1-216-107-00	RES,CHIP	270K 5% 1/10W
Q410	8-729-020-07	TRANSISTOR 2SC4686A(LBSONY)		R210	1-216-295-91	SHORT	0
			<RESISTOR>	R211	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R101	1-215-395-00	METAL	82 1% 1/4W	R212	1-216-621-11	METAL CHIP	56 0.50%1/10W
R102	1-216-025-91	RES,CHIP	100 5% 1/10W	R213	1-216-009-00	RES,CHIP	22 5% 1/10W
R103	1-215-395-00	METAL	82 1% 1/4W	R214	1-216-035-00	RES,CHIP	270 5% 1/10W
R104	1-216-025-91	RES,CHIP	100 5% 1/10W	R215	1-216-035-00	RES,CHIP	270 5% 1/10W
R105	1-216-017-91	RES,CHIP	47 5% 1/10W	R216	1-216-017-91	RES,CHIP	47 5% 1/10W
R106	1-216-017-91	RES,CHIP	47 5% 1/10W	R217	1-216-063-91	RES,CHIP	3.9K 5% 1/10W
R108	1-216-099-00	RES,CHIP	120K 5% 1/10W	R218	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R109	1-216-107-00	RES,CHIP	270K 5% 1/10W	R219	1-216-009-00	RES,CHIP	22 5% 1/10W
R110	1-216-295-91	SHORT	0	R220	1-216-097-91	RES,CHIP	100K 5% 1/10W
R111	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R221	1-216-097-91	RES,CHIP	100K 5% 1/10W
R112	1-216-617-11	METAL CHIP	39 0.50%1/10W	R222	1-216-027-00	RES,CHIP	120 5% 1/10W
R113	1-216-009-00	RES,CHIP	22 5% 1/10W	R223	1-216-027-00	RES,CHIP	120 5% 1/10W
R114	1-216-035-00	RES,CHIP	270 5% 1/10W	R224	1-219-497-11	CARBON	22 5% 1/2W
R115	1-216-035-00	RES,CHIP	270 5% 1/10W	R225	1-216-693-11	METAL CHIP	56K 0.50%1/10W
R116	1-216-017-91	RES,CHIP	47 5% 1/10W	R226	1-216-097-91	RES,CHIP	100K 5% 1/10W
R117	1-216-063-91	RES,CHIP	3.9K 5% 1/10W	R227	1-216-035-00	RES,CHIP	270 5% 1/10W
R118	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R228	1-216-121-91	RES,CHIP	1M 5% 1/10W
R119	1-216-009-00	RES,CHIP	22 5% 1/10W	R229	1-218-776-11	METAL CHIP	1M 0.50%1/10W
R120	1-216-097-91	RES,CHIP	100K 5% 1/10W	R230	1-216-097-91	RES,CHIP	100K 5% 1/10W
R121	1-216-097-91	RES,CHIP	100K 5% 1/10W	R231	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R122	1-216-027-00	RES,CHIP	120 5% 1/10W	R232	1-216-035-00	RES,CHIP	270 5% 1/10W
R123	1-216-027-00	RES,CHIP	120 5% 1/10W	R233	1-216-049-91	RES,CHIP	1K 5% 1/10W
R124	1-219-497-11	CARBON	22 5% 1/2W	R234	1-216-097-91	RES,CHIP	100K 5% 1/10W
R125	1-216-693-11	METAL CHIP	56K 0.50%1/10W	R235	1-216-037-00	RES,CHIP	330 5% 1/10W
				R236	1-216-097-91	RES,CHIP	100K 5% 1/10W
				R237	1-216-097-91	RES,CHIP	100K 5% 1/10W
				R239	1-216-073-00	RES,CHIP	10K 5% 1/10W
				R240	1-216-129-00	RES,CHIP	2.2M 5% 1/10W

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R241	1-216-025-91	RES,CHIP	100 5% 1/10W	R417	1-216-089-91	RES,CHIP	47K 5% 1/10W
R243	1-216-043-91	RES,CHIP	560 5% 1/10W	R418	1-260-127-11	CARBON	220K 5% 1/2W
R244	1-216-295-91	SHORT	0	R419	1-216-687-11	METAL CHIP	33K 0.50% 1/10W
R267	1-216-121-91	RES,CHIP	1M 5% 1/10W	R420	1-216-691-11	METAL CHIP	47K 0.50% 1/10W
R301	1-215-395-00	METAL	82 1% 1/4W	R421	1-216-103-00	RES,CHIP	180K 5% 1/10W
R302	1-216-025-91	RES,CHIP	100 5% 1/10W	R422	1-216-025-91	RES,CHIP	100 5% 1/10W
R303	1-215-395-00	METAL	82 1% 1/4W	R423	1-216-089-91	RES,CHIP	47K 5% 1/10W
R304	1-216-025-91	RES,CHIP	100 5% 1/10W	R424	1-216-025-91	RES,CHIP	100 5% 1/10W
R305	1-216-017-91	RES,CHIP	47 5% 1/10W	R425	1-216-017-91	RES,CHIP	47 5% 1/10W
R306	1-216-017-91	RES,CHIP	47 5% 1/10W	R426	1-216-025-91	RES,CHIP	100 5% 1/10W
R308	1-216-099-00	RES,CHIP	120K 5% 1/10W	R427	1-216-025-91	RES,CHIP	100 5% 1/10W
R309	1-216-107-00	RES,CHIP	270K 5% 1/10W	R428	1-216-049-91	RES,CHIP	1K 5% 1/10W
R310	1-216-295-91	SHORT	0	R429	1-216-025-91	RES,CHIP	100 5% 1/10W
R311	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R430	1-216-025-91	RES,CHIP	100 5% 1/10W
R312	1-216-623-11	METAL CHIP	68 0.50% 1/10W	R431	1-216-025-91	RES,CHIP	100 5% 1/10W
R313	1-216-009-00	RES,CHIP	22 5% 1/10W	R432	1-216-025-91	RES,CHIP	100 5% 1/10W
R314	1-216-035-00	RES,CHIP	270 5% 1/10W	R433	1-216-025-91	RES,CHIP	100 5% 1/10W
R315	1-216-035-00	RES,CHIP	270 5% 1/10W	R434	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R316	1-216-017-91	RES,CHIP	47 5% 1/10W	R435	1-216-121-91	RES,CHIP	1M 5% 1/10W
R317	1-216-063-91	RES,CHIP	3.9K 5% 1/10W	R436	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
R318	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R438	1-216-053-00	RES,CHIP	1.5K 5% 1/10W
R319	1-216-009-00	RES,CHIP	22 5% 1/10W	R439	1-216-053-00	RES,CHIP	1.5K 5% 1/10W
R320	1-216-097-91	RES,CHIP	100K 5% 1/10W	R440	1-216-079-00	RES,CHIP	18K 5% 1/10W
R321	1-216-097-91	RES,CHIP	100K 5% 1/10W	R441	1-216-025-91	RES,CHIP	100 5% 1/10W
R322	1-216-027-00	RES,CHIP	120 5% 1/10W	R442	1-216-659-11	METAL CHIP	2.2K 0.50% 1/10W
R323	1-216-027-00	RES,CHIP	120 5% 1/10W	R443	1-216-041-00	RES,CHIP	470 5% 1/10W
R324	1-219-497-11	CARBON	22 5% 1/2W	R444	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R325	1-216-693-11	METAL CHIP	56K 0.50% 1/10W	R446	1-216-025-91	RES,CHIP	100 5% 1/10W
R326	1-216-097-91	RES,CHIP	100K 5% 1/10W	R451	1-216-025-91	RES,CHIP	100 5% 1/10W
R327	1-216-035-00	RES,CHIP	270 5% 1/10W	R452	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R328	1-216-121-91	RES,CHIP	1M 5% 1/10W	R453	1-216-073-00	RES,CHIP	10K 5% 1/10W
R329	1-218-776-11	METAL CHIP	1M 0.50% 1/10W	R454	1-216-073-00	RES,CHIP	10K 5% 1/10W
R330	1-216-097-91	RES,CHIP	100K 5% 1/10W	R456	1-216-089-91	RES,CHIP	47K 5% 1/10W
R331	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R457	1-219-720-11	METAL	10M 5% 1W
R332	1-216-035-00	RES,CHIP	270 5% 1/10W	R458	1-211-885-21	METAL	2.2M 5% 1W
R333	1-216-049-91	RES,CHIP	1K 5% 1/10W	R459	1-219-720-11	METAL	10M 5% 1W
R334	1-216-097-91	RES,CHIP	100K 5% 1/10W	R461	1-249-441-11	CARBON	100K 5% 1/4W
R335	1-216-037-00	RES,CHIP	330 5% 1/10W	R462	1-216-089-91	RES,CHIP	47K 5% 1/10W
R336	1-216-097-91	RES,CHIP	100K 5% 1/10W	R463	1-216-099-00	RES,CHIP	120K 5% 1/10W
R337	1-216-097-91	RES,CHIP	100K 5% 1/10W	R464	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R339	1-216-073-00	RES,CHIP	10K 5% 1/10W	R466	1-216-675-11	METAL CHIP	10K 0.50% 1/10W
R340	1-216-129-00	RES,CHIP	2.2M 5% 1/10W	R470	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
R341	1-216-025-91	RES,CHIP	100 5% 1/10W	R471	1-216-069-00	RES,CHIP	6.8K 5% 1/10W
R344	1-216-295-91	SHORT	0	R473	1-216-073-00	RES,CHIP	10K 5% 1/10W
R367	1-216-121-91	RES,CHIP	1M 5% 1/10W	R475	1-216-073-00	RES,CHIP	10K 5% 1/10W
R406	1-216-049-91	RES,CHIP	1K 5% 1/10W	R477	1-216-081-00	RES,CHIP	22K 5% 1/10W
R407	1-216-089-91	RES,CHIP	47K 5% 1/10W	R478	1-249-381-11	CARBON	1 5% 1/4W F
R408	1-216-097-91	RES,CHIP	100K 5% 1/10W	R479	1-249-381-11	CARBON	1 5% 1/4W F
R409	1-216-049-91	RES,CHIP	1K 5% 1/10W	R480	1-249-381-11	CARBON	1 5% 1/4W F
R410	1-216-049-91	RES,CHIP	1K 5% 1/10W				
R411	1-216-065-00	RES,CHIP	4.7K 5% 1/10W				
R412	1-216-053-00	RES,CHIP	1.5K 5% 1/10W				
R413	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	SG101	1-517-499-21	GAP, SPARK	
R415	1-216-065-00	RES,CHIP	4.7K 5% 1/10W	SG201	1-517-499-21	GAP, SPARK	
R416	1-216-049-91	RES,CHIP	1K 5% 1/10W	SG301	1-517-499-21	GAP, SPARK	

<SPARK GAP>

6558-03N/03S/43N/43S

A G A G

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.

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
SG401	1-519-526-11	LAMP, NEON		R7512	1-216-089-91	RES,CHIP	47K 5% 1/10W
SG402	1-519-422-11	GAP, SPARK		R7513	1-216-093-00	RES,CHIP	68K 5% 1/10W
<SOCKET>							
SK401 Δ 1-251-640-11 SOCKET, PICTURE TUBE							

* 8-933-269-00 GA BOARD, COMPLETE							

<CAPACITOR>							
C7501	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C601 Δ	1-113-900-51	CERAMIC	470PF 10% 250V
C7502	1-136-169-00	FILM 0.22MF	5% 50V	C602 Δ	1-113-900-51	CERAMIC	470PF 10% 250V
C7503	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C603 Δ	1-107-533-51	FILM	1MF 20% 250V
C7504	1-136-165-00	FILM 0.1MF	5% 50V	C604 Δ	1-107-533-51	FILM	1MF 20% 250V
C7505	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C605 Δ	1-113-926-91	CERAMIC	0.0047MF 250V
C7506	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C606 Δ	1-113-926-91	CERAMIC	0.0047MF 250V
<CONNECTOR>							
CN7501*	1-774-512-11	CONNECTOR, BPARD TO BOARD 10P		C607	1-113-900-11	CERAMIC	470PF 10% 250V
<DIODE>							
D7501	8-719-110-57	DIODE RD22ESB2		C610	1-137-479-11	FILM	1MF 10% 400V
D7502	8-719-911-19	DIODE 1SS119-25		C611	1-117-849-11	ELECT	330MF 20% 450V
<IC>							
IC7501	8-759-482-62	IC MC33262P		C612	1-126-959-11	ELECT	0.47MF 20% 50V
<TRANSISTOR>							
Q7501	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		C616	1-107-888-11	ELECT	47MF 20% 25V
Q7502	8-729-120-28	TRANSISTOR 2SC1623-L5L6		C640	1-165-127-11	CERAMIC	470PF 10% 500V
Q7503	8-729-120-28	TRANSISTOR 2SC1623-L5L6		C641	1-165-127-11	CERAMIC	470PF 10% 500V
Q7504	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		C642	1-136-171-00	FILM	0.33MF 5% 50V
<RESISTOR>							
R7501	1-216-025-91	RES,CHIP	100 5% 1/10W	C643	1-136-171-00	FILM	0.33MF 5% 50V
R7502	1-216-073-00	RES,CHIP	10K 5% 1/10W	C644	1-165-127-11	CERAMIC	470PF 10% 500V
R7503	1-216-041-00	RES,CHIP	470 5% 1/10W	C645	1-136-167-00	FILM	0.15MF 5% 50V
R7504	1-216-675-11	METAL CHIP	10K 0.50% 1/10W	C646	1-136-167-00	FILM	0.15MF 5% 50V
R7505	1-216-673-11	METAL CHIP	8.2K 0.50% 1/10W	C647	1-129-719-00	FILM	0.027MF 5% 630V
R7506	1-216-073-00	RES,CHIP	10K 5% 1/10W	C660	1-111-057-11	ELECT	120MF 20% 25V
R7507	1-216-089-91	RES,CHIP	47K 5% 1/10W	C661	1-128-526-11	ELECT	100MF 20% 16V
R7508	1-216-073-00	RES,CHIP	10K 5% 1/10W	C662	1-137-399-11	FILM	0.1MF 5% 50V
R7509	1-216-073-00	RES,CHIP	10K 5% 1/10W	C663	1-126-965-11	ELECT	22MF 20% 50V
R7510	1-216-073-00	RES,CHIP	10K 5% 1/10W	C670	1-137-370-11	FILM	0.01MF 5% 50V
R7511	1-216-073-00	RES,CHIP	10K 5% 1/10W	C671	1-107-966-51	ELECT	220MF 20% 250V
<Capacitor>							
C672	1-107-959-11	ELECT	3.3MF 20% 250V				
C673	1-107-935-11	ELECT	330MF 20% 100V				
C674	1-107-928-11	ELECT	4.7MF 20% 100V				
C675	1-107-890-11	ELECT	2200MF 20% 25V				
C676	1-107-888-11	ELECT	47MF 20% 25V				
C677	1-107-890-11	ELECT	2200MF 20% 25V				
C678	1-107-888-11	ELECT	47MF 20% 25V				
C679	1-126-927-11	ELECT	2200MF 20% 10V				
C680	1-126-927-11	ELECT	2200MF 20% 10V				
C681	1-107-905-11	ELECT	4.7MF 20% 50V				
C682	1-126-963-11	ELECT	4.7MF 20% 50V				
C683	1-164-646-11	CERAMIC	2200PF 10% 500V				
C684	1-137-370-11	FILM	0.01MF 5% 50V				
C685	1-107-909-11	ELECT	47MF 20% 50V				
C690	1-107-888-11	ELECT	47MF 20% 25V				



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REF.NO.	PART NO.	DESCRIPTION	REMARK			REF.NO.	PART NO.	DESCRIPTION	REMARK									
C691	1-107-888-11	ELECT	47MF	20%	25V			<IC>										
C692	1-111-016-11	ELECT	0.0012F	20%	10V	IC630	8-749-013-03	IC DM-60										
C693	1-137-399-11	FILM	0.1MF	5%	50V	IC660	8-759-470-64	IC TOP223Y-BB										
C695	1-164-644-11	CERAMIC	330PF	10%	500V	IC690	8-749-011-42	IC SI-3050F										
C697	1-136-165-00	FILM	0.1MF	5%	50V	IC691	8-759-140-85	IC UPC1093J										
<CONNECTOR>																		
CN603*	1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P				<COIL>												
CN604	1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P				L610	1-416-409-11	INDUCTOR	0UH									
CN605	1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P				L611	1-411-674-11	INDUCTOR	0UH									
CN610*	1-774-511-11	CONNECTOR, BOARD TO BOARD 10P				L670	1-412-529-11	INDUCTOR	22UH									
CN671*	1-564-514-11	PLUG, CONNECTOR 11P				L671	1-412-529-11	INDUCTOR	22UH									
CN672*	1-564-512-11	PLUG, CONNECTOR 9P				L672	1-412-529-11	INDUCTOR	22UH									
CN673*	1-564-508-11	PLUG, CONNECTOR 5P				L673	1-412-529-11	INDUCTOR	22UH									
						L691	1-412-529-11	INDUCTOR	22UH									
<DIODE>																		
D610	\triangle 8-719-510-53	DIODE D4SB60L				<PHOTO COUPLER>												
D611	8-719-029-04	DIODE D5L60				PH660	8-749-010-64	PHOTO COUPLER PC123F2										
D612	8-719-304-63	DIODE RM11C				PH680	8-749-010-64	PHOTO COUPLER PC123F2										
D613	8-719-110-49	DIODE RD18ESB2				<IC LINK>												
D614	8-719-977-28	DIODE DTZ10B				PS670	\triangle 1-533-593-31	LINK, IC (2A/90V AV, 60V DC)										
D617	8-719-404-49	DIODE MA111				PS671	\triangle 1-533-593-31	LINK, IC (2A/90V AV, 60V DC)										
D640	8-719-404-49	DIODE MA111				PS673	\triangle 1-533-593-31	LINK, IC (2A/90V AV, 60V DC)										
D660	8-719-059-23	DIODE P6KE200AG23				PS674	\triangle 1-533-593-31	LINK, IC (2A/90V AV, 60V DC)										
D661	8-719-979-64	DIODE UF4005PKG23				<TRANSISTOR>												
D662	8-719-058-91	DIODE AG01A-V0				Q610	8-729-041-65	TRANSISTOR 2SK2195F04										
D663	8-719-110-31	DIODE RD12ESB2				Q615	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R										
D666	8-719-105-99	DIODE RD6.2M-B1				Q640	8-729-041-12	TRANSISTOR MX0841AB-F										
D670	8-719-064-49	DIODE D4SBL40				Q641	8-729-119-76	TRANSISTOR 2SA1175-HFE										
D671	8-719-510-64	DIODE S2LA20F				Q642	8-729-119-78	TRANSISTOR 2SC2785-HFE										
D672	8-719-052-91	DIODE D4SBS4-F				Q660	8-729-119-78	TRANSISTOR 2SC2785-HFE										
D673	8-719-022-97	DIODE D2S4MF				Q680	8-729-120-28	TRANSISTOR 2SC1623-L5L6										
D674	8-719-022-97	DIODE D2S4MF				Q681	8-729-230-45	TRANSISTOR 2SC2458-YGR										
D677	8-719-911-19	DIODE 1SS119-25				Q682	8-729-119-76	TRANSISTOR 2SA1175-HFE										
D678	8-719-911-19	DIODE 1SS119-25				Q683	8-729-119-76	TRANSISTOR 2SA1175-HFE										
D680	8-719-404-49	DIODE MA111				Q690	8-729-119-78	TRANSISTOR 2SC2785-HFE										
D681	8-719-404-49	DIODE MA111				Q691	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R										
D682	8-719-510-64	DIODE S2LA20F				<RESISTOR>												
D683	8-719-911-19	DIODE 1SS119-25				R601	\triangle 1-220-825-91	CARBON	330K	5%	1/2W							
D684	8-719-110-57	DIODE RD22ESB2				R604	1-260-089-11	CARBON	150	5%	1/2W							
D691	8-719-510-37	DIODE D5LC20U				R610	1-216-383-11	METAL OXIDE	0.33	5%	3W	F						
D692	8-719-911-19	DIODE 1SS119-25				R611	1-216-383-11	METAL OXIDE	0.33	5%	3W	F						
D693	8-719-404-49	DIODE MA111				R612	1-215-477-00	METAL	220K	1%	1/4W							
<FUSE>																		
F601	\triangle 1-576-233-11	FUSE (H.B.C.) (6.3A/250V)				R613	1-215-477-00	METAL	220K	1%	1/4W							
	1-533-223-11	HOLDER, FUSE ;F601				R614	1-215-473-00	METAL	150K	1%	1/4W							
<FERRITE BEAD>																		
FB610	1-410-396-41	FERRITE	0.45UH			R615	1-215-473-00	METAL	150K	1%	1/4W							
FB611	1-410-396-41	FERRITE	0.45UH			R616	1-215-473-00	METAL	150K	1%	1/4W							
FB612	1-410-396-41	FERRITE	0.45UH			R617	1-215-481-00	METAL	330K	1%	1/4W							
						R618	1-215-477-00	METAL	220K	1%	1/4W							

6558-03N/03S/43N/43S

GD

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

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



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C006	1-126-960-11	ELECT 1MF	20% 50V	C066	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C007	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C067	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C008	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C068	1-126-964-11	ELECT 10MF	20% 50V
C009	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C069	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C010	1-163-237-11	CERAMIC CHIP 27PF	5% 50V	C070	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C011	1-163-237-11	CERAMIC CHIP 27PF	5% 50V	C072	1-126-960-11	ELECT 1MF	20% 50V
C012	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C073	1-163-222-11	CERAMIC CHIP 5PF	0.25PF 50V
C013	1-126-967-11	ELECT 47MF	20% 50V	C074	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C014	1-107-914-11	ELECT 1000MF	20% 25V	C075	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C015	1-107-914-11	ELECT 1000MF	20% 25V	C076	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V
C016	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C077	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C017	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C078	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C018	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C079	1-126-967-11	ELECT 47MF	20% 50V
C019	1-126-967-11	ELECT 47MF	20% 50V	C080	1-126-967-11	ELECT 47MF	20% 50V
C020	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C081	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C021	1-163-023-00	CERAMIC CHIP 0.015MF	10% 50V	C082	1-126-964-11	ELECT 10MF	20% 50V
C022	1-126-933-11	ELECT 100MF	20% 16V	C083	1-137-399-11	FILM 0.1MF	5% 50V
C023	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C084	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C024	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C085	1-137-399-11	FILM 0.1MF	5% 50V
C025	1-126-960-11	ELECT 1MF	20% 50V	C086	1-126-964-11	ELECT 10MF	20% 50V
C026	1-137-372-11	FILM 0.022MF	5% 50V	C087	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C027	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C090	1-109-982-11	CERAMIC CHIP 1MF	10% 10V
C028	1-164-695-11	CERAMIC CHIP 0.0022MF	5% 50V	C092	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C029	1-126-960-11	ELECT 1MF	20% 50V	C093	1-126-964-11	ELECT 10MF	20% 50V
C030	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C094	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C031	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C095	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C032	1-163-019-00	CERAMIC CHIP 0.0068MF	10% 50V	C096	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C034	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C097	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C035	1-163-253-11	CERAMIC CHIP 120PF	5% 50V	C098	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C036	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C099	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C037	1-126-934-11	ELECT 220MF	20% 16V	C501	1-107-909-11	ELECT 47MF	20% 50V
C038	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C502	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
C039	1-126-964-11	ELECT 10MF	20% 50V	C503	1-136-169-00	FILM 0.22MF	5% 50V
C040	1-126-963-11	ELECT 4.7MF	20% 50V	C504	1-137-605-11	FILM 0.01MF	10% 250V
C041	1-126-960-11	ELECT 1MF	20% 50V	C505	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C042	1-126-967-11	ELECT 47MF	20% 50V	C506	1-136-169-00	FILM 0.22MF	5% 50V
C043	1-126-967-11	ELECT 47MF	20% 50V	C507	1-136-173-00	FILM 0.47MF	5% 50V
C044	1-126-967-11	ELECT 47MF	20% 50V	C508	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V
C045	1-163-137-00	CERAMIC CHIP 680PF	5% 50V	C509	1-126-941-11	ELECT 470MF	20% 25V
C046	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C510	1-137-368-11	FILM 0.0047MF	5% 50V
C047	1-126-934-11	ELECT 220MF	20% 16V	C511	1-117-398-11	ELECT 33MF	20% 250V
C048	1-164-695-11	CERAMIC CHIP 0.0022MF	5% 50V	C512	1-107-889-11	ELECT 220MF	20% 25V
C049	1-163-137-00	CERAMIC CHIP 680PF	5% 50V	C513	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C050	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	C514	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C051	1-126-960-11	ELECT 1MF	20% 50V	C515	1-107-889-11	ELECT 220MF	20% 25V
C052	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	C516	1-137-399-11	FILM 0.1MF	5% 50V
C054	1-126-963-11	ELECT 4.7MF	20% 50V	C517	1-104-574-11	CERAMIC 0.0047MF	10% 2KV
C055	1-126-963-11	ELECT 4.7MF	20% 50V	C518	1-117-959-11	FILM 4700PF	3% 1.8KV
C056	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	C519	1-107-444-11	CERAMIC 100PF	5% 2KV
C057	1-107-909-11	ELECT 47MF	20% 50V	C520	1-136-553-11	FILM 0.0015MF	5% 630V
C058	1-126-934-11	ELECT 220MF	20% 16V	C521	1-107-597-11	CERAMIC 22PF	5% 500V
C059	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C522	1-107-444-11	CERAMIC 100PF	5% 2KV
C060	1-126-964-11	ELECT 10MF	20% 50V	C523	1-137-370-11	FILM 0.01MF	5% 50V
C061	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C524	1-113-694-11	FILM 0.056MF	5% 250V
C063	1-137-399-11	FILM 0.1MF	5% 50V	C525	1-107-846-11	FILM 0.1MF	5% 250V
C065	1-126-965-11	ELECT 22MF	20% 50V	C526	1-115-514-11	FILM 0.22MF	5% 250V



REF.NO.	PART NO.	DESCRIPTION	REMARK		REF.NO.	PART NO.	DESCRIPTION	REMARK			
C527	1-115-517-11	FILM	0.39MF	5%	250V	C903	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C528	1-115-521-11	FILM	0.82MF	5%	250V	C904	1-137-605-11	FILM	0.01MF	10%	250V
C529	1-107-683-11	ELECT	2.2MF	0	250V	C905	1-104-653-11	ELECT	220MF	20%	16V
C530	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	C906	1-106-220-00	MYLAR	0.1MF	10%	100V
C531	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	C907	1-119-748-11	ELECT	33MF	20%	400V
C532	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	C908	1-136-169-00	FILM	0.22MF	5%	50V
C533	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	C909	1-106-355-12	MYLAR	0.0033MF	10%	200V
C534	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	C910	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C535	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	C911	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V
C536	1-128-526-11	ELECT	100MF	20%	25V	C912	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V
C537	1-115-523-21	FILM	1.2MF	5%	250V	C913	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C538	1-117-958-11	FILM	0.24MF	5%	400V	C914	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V
C539	1-107-960-11	ELECT	4.7MF	20%	250V	C915	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C540	1-106-343-00	MYLAR	0.001MF	10%	200V	C916	1-136-064-00	FILM	2200PF	3%	1.2KV
C541	1-163-243-11	CERAMIC CHIP	47PF	5%	50V	C917	1-107-889-11	ELECT	220MF	20%	25V
C542	1-163-243-11	CERAMIC CHIP	47PF	5%	50V	C919	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C544	1-137-368-11	FILM	0.0047MF	5%	50V	C920	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C545	1-126-967-11	ELECT	47MF	20%	50V	C921	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C547	1-126-967-11	ELECT	47MF	20%	50V	C922	1-117-665-11	FILM	0.33MF	5%	200V
C549	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	C923	1-106-359-00	MYLAR	0.0047MF	10%	100V
C550	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	C924	1-106-220-00	MYLAR	0.1MF	10%	100V
C551	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	C925	1-137-372-11	FILM	0.022MF	5%	50V
C553	1-126-963-11	ELECT	4.7MF	20%	50V	C926	1-106-228-00	MYLAR	0.22MF	10%	100V
C554	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V	C927	1-107-903-11	ELECT	2.2MF	20%	50V
C555	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V	C928	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C556	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	C929	1-128-526-11	ELECT	100MF	20%	25V
C557	1-115-185-11	CERAMIC CHIP	0.033MF	10%	50V	C930	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C559	1-162-134-11	CERAMIC	470PF	10%	2KV	C931	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C561	1-136-173-00	FILM	0.47MF	5%	50V	C945	1-107-909-11	ELECT	47MF	20%	50V
C562	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	C1003	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C563	1-117-214-11	CERAMIC	0.001MF	10%	2KV	C1004	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C564	1-126-963-11	ELECT	4.7MF	20%	50V	C1005	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C666	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	C1006	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C667	1-126-967-11	ELECT	47MF	20%	50V	C1007	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C701	1-126-967-11	ELECT	47MF	20%	50V	C1008	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C702	1-137-399-11	FILM	0.1MF	5%	50V	C1009	1-126-960-11	ELECT	1MF	20%	50V
C705	1-126-942-61	ELECT	1000MF	20%	25V	C1501	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C706	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	C1502	1-117-722-11	ELECT	2200MF	20%	10V
C707	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	C1503	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C709	1-137-399-11	FILM	0.1MF	5%	50V	<CONNECTOR>					
C710	1-163-019-00	CERAMIC CHIP	0.0068MF	10%	50V	CN501*	1-564-512-11	PLUG, CONNECTOR	9P		
C711	1-107-894-11	ELECT	220MF	20%	35V	CN502*	1-564-514-11	PLUG, CONNECTOR	11P		
C712	1-106-228-00	MYLAR	0.22MF	10%	100V	CN503*	1-564-510-11	PLUG, CONNECTOR	7P		
C713	1-126-942-61	ELECT	1000MF	20%	25V	CN504*	1-564-508-11	PLUG, CONNECTOR	5P		
C714	1-126-967-11	ELECT	47MF	20%	50V	CN505*	1-508-879-11	BASE POST			
C715	1-107-932-11	ELECT	47MF	20%	100V	CN506*	1-564-511-11	PLUG, CONNECTOR	8P		
C717	1-107-930-91	ELECT	22MF	20%	100V	CN507	1-764-101-11	PIN, CONNECTOR (PC BOARD)	2P		
C729	1-162-134-11	CERAMIC	470PF	10%	2KV	CN508*	1-778-955-11	PIN, CONNECTOR (PC BOARD)	10P		
C735	1-137-399-11	FILM	0.1MF	5%	50V	CN509	1-564-505-11	PLUG, CONNECTOR	2P		
C746	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	CN511*	1-564-514-11	PLUG, CONNECTOR	11P		
C747	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	CN512*	1-564-512-11	PLUG, CONNECTOR	9P		
C750	1-126-964-11	ELECT	10MF	20%	50V	CN520*	1-564-509-11	PLUG, CONNECTOR	6P		
C751	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	CN901*	1-564-520-11	PLUG, CONNECTOR	5P		
C901	1-107-889-11	ELECT	220MF	20%	25V						
C902	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V						



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK		
<DIODE>									
D004	8-719-800-76	DIODE 1SS226		D721	8-719-028-72	DIODE RGP02-17EL-6433			
D007	8-719-976-99	ZENER DIODE DTZ5.1B		D901	8-719-404-49	DIODE MA111			
D008	8-719-976-99	ZENER DIODE DTZ5.1B		D902	8-719-404-49	DIODE MA111			
D009	8-719-976-99	ZENER DIODE DTZ5.1B		D903	8-719-911-19	DIODE 1SS119-25			
D010	8-719-976-99	ZENER DIODE DTZ5.1B		D904	8-719-404-49	DIODE MA111			
D012	8-719-800-76	DIODE 1SS226		D905	8-719-404-49	DIODE MA111			
D013	8-719-800-76	DIODE 1SS226		D906	8-719-404-49	DIODE MA111			
D014	8-719-800-76	DIODE 1SS226		D907	8-719-158-49	ZENER DIODE RD12SB2			
D015	8-719-800-76	DIODE 1SS226		D908	8-719-158-49	ZENER DIODE RD12SB2			
D016	8-719-800-76	DIODE 1SS226		D909	8-719-977-40	ZENER DIODE DTZ13B			
D019	8-719-800-76	DIODE 1SS226		D910	8-719-063-89	DIODE YG911S3R			
D020	8-719-800-76	DIODE 1SS226		D911	8-719-978-69	ZENER DIODE DTZ-TT11-16B			
D025	8-719-976-99	ZENER DIODE DTZ5.1B		D913	8-719-158-49	ZENER DIODE RD12SB2			
D026	8-719-800-76	DIODE 1SS226		D915	8-719-109-85	ZENER DIODE RD5.1ESB2			
D027	8-719-800-76	DIODE 1SS226		D916	8-719-939-79	DIODE GMA01-BT			
D028	8-719-800-76	DIODE 1SS226		D917	8-719-110-46	ZENER DIODE RD16ESB3			
D029	8-719-800-76	DIODE 1SS226		D919	8-719-911-19	DIODE 1SS119-25			
D032	8-719-976-99	ZENER DIODE DTZ5.1B		D921	8-719-404-49	DIODE MA111			
D033	8-719-976-99	ZENER DIODE DTZ5.1B		D922	8-719-404-49	DIODE MA111			
D034	8-719-801-78	DIODE 1SS184		D923	8-719-404-49	DIODE MA111			
D035	8-719-801-78	DIODE 1SS184		D924	8-719-976-99	ZENER DIODE DTZ5.1B			
D050	8-719-404-49	DIODE MA111		D935	8-719-977-81	ZENER DIODE DTZ33B			
D501	8-719-977-40	ZENER DIODE DTZ13B		D1501	8-719-976-99	ZENER DIODE DTZ5.1B			
D502	8-719-063-89	DIODE YG911S3R		D1502	8-719-404-49	DIODE MA111			
D503	8-719-404-49	DIODE MA111		D1503	8-719-404-49	DIODE MA111			
D504	8-719-984-73	DIODE SB560		<FERRITE BEAD>					
D505	8-719-018-82	DIODE RGP02-20EL-6394		FB501	1-410-397-21	FERRITE	1.1UH		
D506	8-719-911-19	DIODE 1SS119-25		FB502	1-410-397-21	FERRITE	1.1UH		
D507	8-719-911-19	DIODE 1SS119-25		FB901	1-410-397-21	FERRITE	1.1UH		
D508	8-719-109-85	ZENER DIODE RD5.1ESB2		FB10251	1-414-232-11	INDUCTOR CHIP	0UH		
D509	8-719-911-19	DIODE 1SS119-25		FB10261	1-414-232-11	INDUCTOR CHIP	0UH		
D510	8-719-951-30	DIODE ERA91-02		<IC>					
D511	8-719-911-19	DIODE 1SS119-25		IC001	8-759-531-24	IC MB90553PF-G-120-BND			
D512	8-719-018-82	DIODE RGP02-20EL-6394		IC002	8-759-442-20	IC 24LC21A/SN			
D513	8-719-404-49	DIODE MA111		IC003	8-759-168-20	IC TA78L09S			
D514	8-719-109-93	ZENER DIODE RD6.2ESB2		IC004	8-759-454-79	IC 24LC16BT/SN			
D516	8-719-105-99	ZENER DIODE RD6.2M-B1		IC005	8-759-162-80	IC MM1170BFB			
D517	8-719-105-99	ZENER DIODE RD6.2M-B1		IC006	8-759-231-53	IC TA7805S			
D518	8-719-404-49	DIODE MA111		IC007	8-752-078-46	IC CXA2043Q			
D519	8-719-066-36	DIODE FMQ-G5GS		IC008	8-759-701-59	IC NJM78M09FA			
D521	8-719-404-49	DIODE MA111		IC009	8-759-082-57	IC TC7W04FU			
D530	8-719-018-82	DIODE RGP02-20EL-6394		IC010	8-752-083-83	IC CXA2044M-T6			
D531	8-719-018-82	DIODE RGP02-20EL-6394		IC011	8-759-708-05	IC NJM78L05A			
D660	8-719-977-69	ZENER DIODE DTZ24B		IC012	8-759-442-20	IC 24LC21A/SN			
D701	8-719-158-15	ZENER DIODE RD5.6SB		IC013	8-759-233-66	IC TC74HCT04AF			
D704	8-719-404-49	DIODE MA111		IC502	8-759-803-42	IC LA6500-FA			
D705	8-719-404-49	DIODE MA111		IC505	8-759-100-96	IC UPC4558G2			
D706	8-719-976-99	ZENER DIODE DTZ5.1B		IC701	8-759-822-38	IC LA6510			
D709	8-719-979-85	DIODE EGP20G		IC702	8-759-444-82	IC LA7841L			
D713	8-719-911-19	DIODE 1SS119-25		IC703	8-759-100-96	IC UPC4558G2			
D714	8-719-911-19	DIODE 1SS119-25		IC901	8-759-467-70	IC BA9756FS-E2			
D715	8-719-911-19	DIODE 1SS119-25							
D718	8-719-976-99	ZENER DIODE DTZ5.1B							
D720	8-719-028-72	DIODE RGP02-17EL-6433							

D

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.

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
<CHIP CONDUCTOR>				Q512	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
JR001	1-216-295-91	SHORT	0	Q517	8-729-216-22	TRANSISTOR 2SA1162-G	
JR002	1-216-295-91	SHORT	0	Q522	8-729-043-41	TRANSISTOR 2SK2098-01MR-F119	
JR003	1-216-295-91	SHORT	0	Q523	8-729-043-41	TRANSISTOR 2SK2098-01MR-F119	
JR004	1-216-295-91	SHORT	0	Q524	8-729-043-41	TRANSISTOR 2SK2098-01MR-F119	
<COIL>				Q525	8-729-043-41	TRANSISTOR 2SK2098-01MR-F119	
L001	1-406-665-11	INDUCTOR	0UH	Q526	8-729-043-41	TRANSISTOR 2SK2098-01MR-F119	
L002	1-406-665-11	INDUCTOR	0UH	Q527	8-729-043-41	TRANSISTOR 2SK2098-01MR-F119	
L003	1-412-537-31	INDUCTOR	100UH	Q528	8-729-043-41	TRANSISTOR 2SK2098-01MR-F119	
L004	1-412-537-31	INDUCTOR	100UH	Q660	8-729-033-26	TRANSISTOR DTA114GKAT146	
L006	1-410-482-31	INDUCTOR	100UH	Q661	8-729-033-25	TRANSISTOR DTC114GKA	
L007	1-412-537-31	INDUCTOR	100UH	Q701	8-729-800-32	TRANSISTOR 2SC2362K-G	
L008	1-412-537-31	INDUCTOR	100UH	Q703	8-729-178-43	TRANSISTOR 2SC2784-E	
L501	1-412-537-31	INDUCTOR	100UH	Q704	8-729-207-82	TRANSISTOR 2SC3421-Y	
L502	1-406-671-11	INDUCTOR	0UH	Q705	8-729-204-91	TRANSISTOR 2SA1049-GR	
L503	1-416-455-11	COIL, HORIZONTAL LINEARITY		Q706	8-729-207-89	TRANSISTOR 2SA1358-Y	
L504	1-416-456-11	COIL, HORIZONTAL LINEARITY		Q707	8-729-216-22	TRANSISTOR 2SA1162-G	
L505	1-406-675-11	INDUCTOR	0UH	Q708	8-729-020-07	TRANSISTOR 2SC4686A(LBSONY)	
L507	1-406-675-11	INDUCTOR	0UH	Q901	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L701	1-412-537-31	INDUCTOR	100UH	Q902	8-729-216-22	TRANSISTOR 2SA1162-G	
L702	1-412-522-31	INDUCTOR	5.6UH	Q904	8-729-901-87	TRANSISTOR 2SC2411K-CQ	
L901	1-412-537-31	INDUCTOR	100UH	Q905	8-729-901-97	TRANSISTOR 2SA1036K-Q	
L902	1-406-660-41	INDUCTOR	0UH	Q908	8-729-035-54	TRANSISTOR 2SJ449	
L903	1-412-537-31	INDUCTOR	100UH	Q909	8-729-033-91	TRANSISTOR 2SK1120LBSONY2	
<IC LINK>				Q911	8-729-033-25	TRANSISTOR DTC114GKA	
<RESISTOR>							
PS501 Δ 1-533-592-31	LINK, IC (1.6A/90V AC, 60V DC)			R001	1-216-025-91	RES,CHIP	100 5% 1/10W
PS502 Δ 1-532-984-91	LINK, IC (2A/90V)			R002	1-216-049-91	RES,CHIP	1K 5% 1/10W
PS503 Δ 1-532-984-91	LINK, IC (2A/90V)			R003	1-216-049-91	RES,CHIP	1K 5% 1/10W
PS504 Δ 1-532-984-91	LINK, IC (2A/90V)			R004	1-216-049-91	RES,CHIP	1K 5% 1/10W
PS701 Δ 1-533-590-31	LINK, IC (1A/90V AC, 60V DC)			R005	1-216-073-00	RES,CHIP	10K 5% 1/10W
PS901 Δ 1-533-592-31	LINK, IC (1.6A/90V AC, 60V DC)			R006	1-216-049-91	RES,CHIP	1K 5% 1/10W
<TRANSISTOR>				R007	1-216-025-91	RES,CHIP	100 5% 1/10W
Q001	8-729-027-31	TRANSISTOR DTA124EKA-T146		R008	1-216-089-91	RES,CHIP	47K 5% 1/10W
Q003	8-729-216-22	TRANSISTOR 2SA1162-G		R009	1-216-025-91	RES,CHIP	100 5% 1/10W
Q004	8-729-216-22	TRANSISTOR 2SA1162-G		R010	1-216-081-00	RES,CHIP	22K 5% 1/10W
Q005	8-729-216-22	TRANSISTOR 2SA1162-G		R011	1-216-097-91	RES,CHIP	100K 5% 1/10W
Q006	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R012	1-216-025-91	RES,CHIP	100 5% 1/10W
Q007	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R013	1-216-675-11	METAL CHIP	10K 0.50% 1/10W
Q501	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R017	1-216-049-91	RES,CHIP	1K 5% 1/10W
Q502	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R018	1-216-049-91	RES,CHIP	1K 5% 1/10W
Q503	8-729-901-97	TRANSISTOR 2SA1036K-Q		R020	1-216-049-91	RES,CHIP	1K 5% 1/10W
Q504	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R023	1-216-025-91	RES,CHIP	100 5% 1/10W
Q505	8-729-901-97	TRANSISTOR 2SA1036K-Q		R024	1-216-089-91	RES,CHIP	47K 5% 1/10W
Q506	8-729-820-73	TRANSISTOR 2SC3746		R025	1-216-295-91	SHORT	0
Q507	8-729-035-54	TRANSISTOR 2SJ449		R026	1-216-073-00	RES,CHIP	10K 5% 1/10W
Q508	8-729-031-87	TRANSISTOR 2SC5047-CA		R027	1-216-073-00	RES,CHIP	10K 5% 1/10W
Q509	8-729-033-25	TRANSISTOR DTC114GKA		R028	1-216-065-00	RES,CHIP	4.7K 5% 1/10W
Q510	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R029	1-216-089-91	RES,CHIP	47K 5% 1/10W
Q511	8-729-140-50	TRANSISTOR 2SC3209LK		R030	1-216-017-91	RES,CHIP	47 5% 1/10W
				R031	1-216-073-00	RES,CHIP	10K 5% 1/10W
				R032	1-216-675-11	METAL CHIP	10K 0.50% 1/10W
				R033	1-216-017-91	RES,CHIP	47 5% 1/10W



REF.NO.	PART NO.	DESCRIPTION	REMARK			REF.NO.	PART NO.	DESCRIPTION	REMARK		
R034	1-216-025-91	RES,CHIP	100	5%	1/10W	R094	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R035	1-216-049-91	RES,CHIP	1K	5%	1/10W	R096	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W
R036	1-216-025-91	RES,CHIP	100	5%	1/10W	R097	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R037	1-216-686-11	METAL CHIP	30K	0.50%	1/10W	R101	1-216-049-91	RES,CHIP	1K	5%	1/10W
R038	1-216-685-11	METAL CHIP	27K	0.50%	1/10W	R501	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R039	1-216-049-91	RES,CHIP	1K	5%	1/10W	R502	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R040	1-216-049-91	RES,CHIP	1K	5%	1/10W	R503	1-216-041-00	RES,CHIP	470	5%	1/10W
R041	1-216-065-00	RES,CHIP	4.7K	5%	1/10W	R504	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R042	1-216-089-91	RES,CHIP	47K	5%	1/10W	R505	1-216-041-00	RES,CHIP	470	5%	1/10W
R043	1-216-065-00	RES,CHIP	4.7K	5%	1/10W	R506	1-249-397-11	CARBON	22	5%	1/4W F
R044	1-216-095-00	RES,CHIP	82K	5%	1/10W	R507	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R045	1-216-073-00	RES,CHIP	10K	5%	1/10W	R508	1-216-025-91	RES,CHIP	100	5%	1/10W
R046	1-216-675-11	METAL CHIP	10K	0.50%	1/10W	R509	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R047	1-216-073-00	RES,CHIP	10K	5%	1/10W	R510	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R048	1-216-049-91	RES,CHIP	1K	5%	1/10W	R511	1-219-726-11	METAL	2.2	5%	10W
R049	1-216-049-91	RES,CHIP	1K	5%	1/10W	R512	1-216-627-11	METAL CHIP	100	0.50%	1/10W
R050	1-216-025-91	RES,CHIP	100	5%	1/10W	R513	1-215-860-11	METAL OXIDE	33	5%	1W F
R051	1-216-679-11	METAL CHIP	15K	0.50%	1/10W	R514	1-211-796-11	FUSIBLE	1	5%	1/2W F
R052	1-216-073-00	RES,CHIP	10K	5%	1/10W	R515	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R053	1-216-675-11	METAL CHIP	10K	0.50%	1/10W	R516	1-247-815-91	CARBON	220	5%	1/4W
R054	1-216-675-11	METAL CHIP	10K	0.50%	1/10W	R517	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R055	1-216-089-91	RES,CHIP	47K	5%	1/10W	R518	1-216-097-91	RES,CHIP	100K	5%	1/10W
R056	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W	R519	1-216-393-00	METAL OXIDE	2.2	5%	3W F
R057	1-216-679-11	METAL CHIP	15K	0.50%	1/10W	R520	1-216-393-00	METAL OXIDE	2.2	5%	3W F
R058	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W	R521	1-249-413-11	CARBON	470	5%	1/4W F
R059	1-216-065-00	RES,CHIP	4.7K	5%	1/10W	R522	1-216-423-11	METAL OXIDE	27	5%	1W F
R060	1-216-025-91	RES,CHIP	100	5%	1/10W	R523	1-249-421-11	CARBON	2.2K	5%	1/4W F
R061	1-216-065-00	RES,CHIP	4.7K	5%	1/10W	R524	1-215-869-11	METAL OXIDE	1K	5%	1W F
R063	1-216-025-91	RES,CHIP	100	5%	1/10W	R525	1-216-681-11	METAL CHIP	18K	0.50%	1/10W
R064	1-216-025-91	RES,CHIP	100	5%	1/10W	R526	1-214-840-00	METAL	100	1%	1/2W
R065	1-216-025-91	RES,CHIP	100	5%	1/10W	R527	1-214-840-00	METAL	100	1%	1/2W
R066	1-216-025-91	RES,CHIP	100	5%	1/10W	R528	1-214-840-00	METAL	100	1%	1/2W
R067	1-216-025-91	RES,CHIP	100	5%	1/10W	R529	1-260-313-51	CARBON	56	5%	1/2W
R068	1-216-025-91	RES,CHIP	100	5%	1/10W	R530	1-249-437-11	CARBON	47K	5%	1/4W
R069	1-216-017-91	RES,CHIP	47	5%	1/10W	R531	1-249-437-11	CARBON	47K	5%	1/4W
R070	1-216-675-11	METAL CHIP	10K	0.50%	1/10W	R532	1-249-437-11	CARBON	47K	5%	1/4W
R071	1-216-049-91	RES,CHIP	1K	5%	1/10W	R533	1-249-437-11	CARBON	47K	5%	1/4W
R072	1-216-651-11	METAL CHIP	1K	0.50%	1/10W	R534	1-249-437-11	CARBON	47K	5%	1/4W
R073	1-216-295-91	SHORT	0			R535	1-216-049-91	RES,CHIP	1K	5%	1/10W
R074	1-216-675-11	METAL CHIP	10K	0.50%	1/10W	R536	1-216-049-91	RES,CHIP	1K	5%	1/10W
R075	1-216-049-91	RES,CHIP	1K	5%	1/10W	R537	1-216-049-91	RES,CHIP	1K	5%	1/10W
R076	1-216-049-91	RES,CHIP	1K	5%	1/10W	R538	1-216-049-91	RES,CHIP	1K	5%	1/10W
R077	1-216-049-91	RES,CHIP	1K	5%	1/10W	R539	1-216-049-91	RES,CHIP	1K	5%	1/10W
R078	1-216-049-91	RES,CHIP	1K	5%	1/10W	R540	1-216-073-00	RES,CHIP	10K	5%	1/10W
R079	1-216-017-91	RES,CHIP	47	5%	1/10W	R541	1-260-314-11	CARBON	68	5%	1/2W
R080	1-216-017-91	RES,CHIP	47	5%	1/10W	R542	1-215-863-11	METAL OXIDE	100	5%	1W F
R081	1-216-675-11	METAL CHIP	10K	0.50%	1/10W	R543	1-216-640-11	METAL CHIP	360	0.50%	1/10W
R082	1-216-049-91	RES,CHIP	1K	5%	1/10W	R544	1-260-085-11	CARBON	68	5%	1/2W
R083	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R545	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R084	1-216-025-91	RES,CHIP	100	5%	1/10W	R546	1-260-288-11	CARBON	0.47	5%	1/2W
R085	1-216-025-91	RES,CHIP	100	5%	1/10W	R547	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W
R086	1-216-049-91	RES,CHIP	1K	5%	1/10W	R548	1-215-443-00	METAL	8.2K	1%	1/4W
R088	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R549	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R089	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R550	1-260-288-11	CARBON	0.47	5%	1/2W
R090	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R551	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R092	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R552	1-216-057-00	RES,CHIP	2.2K	5%	1/10W

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R553	1-216-655-11 METAL CHIP	1.5K	0.50% 1/10W	R721	1-216-667-11 METAL CHIP	4.7K	0.50% 1/10W
R554	1-216-675-11 METAL CHIP	10K	0.50% 1/10W	R722	1-216-691-11 METAL CHIP	47K	0.50% 1/10W
R555	1-216-065-00 RES,CHIP	4.7K	5% 1/10W	R723	1-216-663-11 METAL CHIP	3.3K	0.50% 1/10W
R556	1-216-674-11 METAL CHIP	9.1K	0.50% 1/10W	R724	1-214-798-21 METAL	1.8	1% 1/2W
R557	1-218-760-11 METAL CHIP	220K	0.50% 1/10W	R725	1-214-798-21 METAL	1.8	1% 1/2W
R558	1-216-683-11 METAL CHIP	22K	0.50% 1/10W	R726	1-216-675-11 METAL CHIP	10K	0.50% 1/10W
R561	1-216-683-11 METAL CHIP	22K	0.50% 1/10W	R727	1-260-292-11 CARBON	1	5% 1/2W
R562	1-249-401-11 CARBON	47	5% 1/4W F	R728	1-249-381-11 CARBON	1	5% 1/4W F
R563	1-216-662-11 METAL CHIP	3K	0.50% 1/10W	R729	1-215-865-11 METAL OXIDE	220	5% 1W F
R564	1-216-697-91 METAL CHIP	82K	0.50% 1/10W	R730	1-219-746-11 CARBON	1K	5% 1/2W
R565	1-216-671-11 METAL CHIP	6.8K	0.50% 1/10W	R731	1-216-073-00 RES,CHIP	10K	5% 1/10W
R566	1-260-311-11 CARBON	39	5% 1/2W	R732	1-216-073-00 RES,CHIP	10K	5% 1/10W
R567	1-216-627-11 METAL CHIP	100	0.50% 1/10W	R733	1-219-746-11 CARBON	1K	5% 1/2W
R568	1-216-655-11 METAL CHIP	1.5K	0.50% 1/10W	R734	1-215-881-11 METAL OXIDE	15	5% 2W F
R571	1-216-381-11 METAL OXIDE	0.22	5% 3W F	R737	1-249-377-11 CARBON	0.47	5% 1/4W F
R572	1-216-097-91 RES,CHIP	100K	5% 1/10W	R738	1-249-377-11 CARBON	0.47	5% 1/4W F
R573	1-216-097-91 RES,CHIP	100K	5% 1/10W	R739	1-249-413-11 CARBON	470	5% 1/4W F
R574	1-216-097-91 RES,CHIP	100K	5% 1/10W	R741	1-249-430-11 CARBON	12K	5% 1/4W
R575	1-216-097-91 RES,CHIP	100K	5% 1/10W	R742	1-249-419-11 CARBON	1.5K	5% 1/4W
R576	1-216-097-91 RES,CHIP	100K	5% 1/10W	R743	1-216-049-91 RES,CHIP	1K	5% 1/10W
R577	1-216-057-00 RES,CHIP	2.2K	5% 1/10W	R748	1-216-683-11 METAL CHIP	22K	0.50% 1/10W
R578	1-216-025-91 RES,CHIP	100	5% 1/10W	R749	1-216-049-91 RES,CHIP	1K	5% 1/10W
R579	1-216-672-11 METAL CHIP	7.5K	0.50% 1/10W	R750	1-216-057-00 RES,CHIP	2.2K	5% 1/10W
R580	1-216-073-00 RES,CHIP	10K	5% 1/10W	R751	1-216-065-00 RES,CHIP	4.7K	5% 1/10W
R581	1-216-073-00 RES,CHIP	10K	5% 1/10W	R752	1-216-083-00 RES,CHIP	27K	5% 1/10W
R582	1-216-073-00 RES,CHIP	10K	5% 1/10W	R753	1-219-720-11 METAL	10M	5% 1W
R583	1-216-677-11 METAL CHIP	12K	0.50% 1/10W	R754	1-219-754-11 CARBON	680K	5% 1/2W
R584	1-216-081-00 RES,CHIP	22K	5% 1/10W	R755	1-219-754-11 CARBON	680K	5% 1/2W
R585	1-216-081-00 RES,CHIP	22K	5% 1/10W	R756	1-220-824-11 CARBON	270K	5% 1/2W
R586	1-216-049-91 RES,CHIP	1K	5% 1/10W	R759	1-218-754-11 METAL CHIP	120K	0.50% 1/10W
R587	1-216-049-91 RES,CHIP	1K	5% 1/10W	R776	1-216-049-91 RES,CHIP	1K	5% 1/10W
R588	1-216-097-91 RES,CHIP	100K	5% 1/10W	R777	1-216-681-11 METAL CHIP	18K	0.50% 1/10W
R589	1-216-097-91 RES,CHIP	100K	5% 1/10W	R778	1-216-667-11 METAL CHIP	4.7K	0.50% 1/10W
R590	1-216-675-11 METAL CHIP	10K	0.50% 1/10W	R779	1-216-049-91 RES,CHIP	1K	5% 1/10W
R591	1-216-675-11 METAL CHIP	10K	0.50% 1/10W	R784	1-216-081-00 RES,CHIP	22K	5% 1/10W
R594	1-249-437-11 CARBON	47K	5% 1/4W	R900	1-216-399-00 METAL OXIDE	6.8	5% 3W F
R595	1-249-437-11 CARBON	47K	5% 1/4W	R901	1-216-057-00 RES,CHIP	2.2K	5% 1/10W
R596	1-216-683-11 METAL CHIP	22K	0.50% 1/10W	R902	1-216-065-00 RES,CHIP	4.7K	5% 1/10W
R663	1-215-482-00 METAL	360K	1% 1/4W	R903	1-216-073-00 RES,CHIP	10K	5% 1/10W
R664	1-215-459-00 METAL	39K	1% 1/4W	R904	1-216-057-00 RES,CHIP	2.2K	5% 1/10W
R665	1-216-049-91 RES,CHIP	1K	5% 1/10W	R905	1-216-025-91 RES,CHIP	100	5% 1/10W
R667	1-216-041-00 RES,CHIP	470	5% 1/10W	R906	1-216-065-00 RES,CHIP	4.7K	5% 1/10W
R669	1-216-671-11 METAL CHIP	6.8K	0.50% 1/10W	R907	1-216-025-91 RES,CHIP	100	5% 1/10W
R701	1-249-383-11 CARBON	1.5	5% 1/4W F	R908	1-216-091-00 RES,CHIP	56K	5% 1/10W
R702	1-216-057-00 RES,CHIP	2.2K	5% 1/10W	R909	1-216-689-11 RES,CHIP	39K	5% 1/10W
R703	1-216-085-00 RES,CHIP	33K	5% 1/10W	R910	1-216-073-00 RES,CHIP	10K	5% 1/10W
R704	1-249-383-11 CARBON	1.5	5% 1/4W F	R911	1-216-049-91 RES,CHIP	1K	5% 1/10W
R705	1-249-385-11 CARBON	2.2	5% 1/4W	R912	1-218-772-11 METAL CHIP	680K	0.50% 1/10W
R706	1-216-093-00 RES,CHIP	68K	5% 1/10W	R913	1-219-748-11 CARBON	4.7K	5% 1/2W
R707	1-249-421-11 CARBON	2.2K	5% 1/4W	R914	1-219-510-11 CARBON	470K	5% 1/2W
R708	1-216-073-00 RES,CHIP	10K	5% 1/10W	R915	1-249-437-11 CARBON	47K	5% 1/4W
R709	1-216-473-11 METAL OXIDE	56	5% 3W F	R916	1-249-429-11 CARBON	10K	5% 1/4W
R710	1-216-073-00 RES,CHIP	10K	5% 1/10W	R917	1-216-073-00 RES,CHIP	10K	5% 1/10W
R715	1-216-077-00 RES,CHIP	15K	5% 1/10W	R918	1-216-097-91 RES,CHIP	100K	5% 1/10W
R719	1-249-383-11 CARBON	1.5	5% 1/4W F	R919	1-216-025-91 RES,CHIP	100	5% 1/10W
R720	1-260-292-11 CARBON	1	5% 1/2W	R920	1-249-401-11 CARBON	47	5% 1/4W F



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

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

REF.NO.	PART NO.	DESCRIPTION	REMARK		REF.NO.	PART NO.	DESCRIPTION	REMARK	
R921	1-216-668-11	METAL CHIP	5.1K	0.50% 1/10W	SG901	1-517-499-21	GAP, SPARK		
R922	1-216-041-00	RES,CHIP	470	5% 1/10W					
R923	1-216-675-11	METAL CHIP	10K	0.50% 1/10W					
R924	1-249-397-11	CARBON	22	5% 1/4W F					
R925	1-216-653-11	METAL CHIP	1.2K	0.50% 1/10W	T501	1-429-303-21	TRANSFORMER, FERRITE (HDT)		
R926	1-216-653-11	METAL CHIP	1.2K	0.50% 1/10W	T502	1-416-401-11	INDUCTOR 0UH		
R927	1-216-073-00	RES,CHIP	10K	5% 1/10W	T503	1-431-413-11	TRANSFORMER, FERRITE (HST)		
R928	1-216-667-11	METAL CHIP	4.7K	0.50% 1/10W	T504	1-416-257-11	INDUCTOR 0UH		
R929	1-216-033-00	RES,CHIP	220	5% 1/10W	T701	1-431-414-11	TRANSFORMER, FERRITE (DFT)		
R930	1-216-033-00	RES,CHIP	220	5% 1/10W	T901	1-416-402-11	INDUCTOR 0UH		
R933	1-216-683-11	METAL CHIP	22K	0.50% 1/10W	T902	\triangle X-4035-170-1	TRANSFORMER ASSY, FLYBACK		
R934	1-216-667-11	METAL CHIP	4.7K	0.50% 1/10W			(NX-4142/J1D4)		
R937	1-219-727-11	METAL	68	5% 10W					
R940	1-249-393-11	CARBON	10	5% 1/4W F					
R941	1-216-073-00	RES,CHIP	10K	5% 1/10W					
R980	1-216-049-91	RES,CHIP	1K	5% 1/10W	TH501	1-807-796-11	THERMISTOR		
R981	1-216-025-91	RES,CHIP	100	5% 1/10W	TH502	1-807-796-11	THERMISTOR		
R1001	1-216-073-00	RES,CHIP	10K	5% 1/10W					
R1003	1-216-049-91	RES,CHIP	1K	5% 1/10W					
R1004	1-216-049-91	RES,CHIP	1K	5% 1/10W					
R1005	1-216-049-91	RES,CHIP	1K	5% 1/10W	X001	1-567-781-61	VIBRATOR, CRYSTAL		
R1006	1-216-049-91	RES,CHIP	1K	5% 1/10W					
R1007	1-216-049-91	RES,CHIP	1K	5% 1/10W					
R1009	1-216-097-91	RES,CHIP	100K	5% 1/10W					
R1011	1-216-073-00	RES,CHIP	10K	5% 1/10W					
R1012	1-216-049-91	RES,CHIP	1K	5% 1/10W					
R1013	1-216-049-91	RES,CHIP	1K	5% 1/10W					
R1014	1-216-049-91	RES,CHIP	1K	5% 1/10W					
R1015	1-216-295-91	SHORT	0						
R1016	1-216-049-91	RES,CHIP	1K	5% 1/10W					
R1017	1-216-065-00	RES,CHIP	4.7K	5% 1/10W					
R1020	1-216-049-91	RES,CHIP	1K	5% 1/10W	C805	1-124-589-11	ELECT	47MF	20% 16V
R1021	1-216-049-91	RES,CHIP	1K	5% 1/10W	C811	1-124-589-11	ELECT	47MF	20% 16V
R1022	1-216-295-91	SHORT	0						
R1023	1-216-295-91	SHORT	0						
R1024	1-216-295-91	SHORT	0						
R1025	1-249-389-11	CARBON	4.7	5% 1/4W F	CN801*1-564-526-11	PLUG, CONNECTOR 11P			
R1026	1-249-389-11	CARBON	4.7	5% 1/4W F					
R1027	1-216-065-00	RES,CHIP	4.7K	5% 1/10W					
R1028	1-216-049-91	RES,CHIP	1K	5% 1/10W					
R1501	1-216-057-00	RES,CHIP	2.2K	5% 1/10W	D820	8-719-064-11	DIODE SPR-325MVW		
R1502	1-216-073-00	RES,CHIP	10K	5% 1/10W					
R1503	1-216-125-00	RES,CHIP	1.5M	5% 1/10W					
R1504	1-216-097-91	RES,CHIP	100K	5% 1/10W					
R1513	1-216-049-91	RES,CHIP	1K	5% 1/10W	Q801	8-729-119-78	TRANSISTOR 2SC2785-HFE		
R1514	1-216-049-91	RES,CHIP	1K	5% 1/10W	Q802	8-729-119-78	TRANSISTOR 2SC2785-HFE		
<RELAY>									
RY501	1-755-137-11	RELAY							
<SPARK GAP>									
SG701	1-519-422-11	GAP, SPARK							
SG702	1-519-422-11	GAP, SPARK							
<RESISTOR>									
R801	1-215-433-00	METAL							
R802	1-215-409-00	METAL							
R803	1-215-409-00	METAL							
R804	1-215-413-00	METAL							
R805	1-215-413-00	METAL							
R806	1-215-417-00	METAL							
R807	1-215-421-00	METAL							



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.

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	
R808	1-215-421-00 METAL	1K	1%	1/4W	C5105	1-104-664-11 ELECT	47MF	20%	25V
R809	1-215-429-00 METAL	2.2K	1%	1/4W	C5106	1-164-004-11 CERAMIC CHIP	0.1MF	10%	25V
R810	1-215-433-00 METAL	3.3K	1%	1/4W	C5107	1-137-399-11 FILM	0.1MF	5%	50V
R814	1-249-429-11 CARBON	10K	5%	1/4W	C5108	1-164-004-11 CERAMIC CHIP	0.1MF	10%	25V
R815	1-249-429-11 CARBON	10K	5%	1/4W	C5109	1-164-004-11 CERAMIC CHIP	0.1MF	10%	25V
R818	1-215-445-00 METAL	10K	1%	1/4W	C5110	1-104-664-11 ELECT	47MF	20%	25V
R819	1-249-441-11 CARBON	100K	5%	1/4W	C5111	1-137-399-11 FILM	0.1MF	5%	50V
R826	1-249-408-11 CARBON	180	5%	1/4W	C5201	1-104-664-11 ELECT	47MF	20%	25V
R827	1-249-407-11 CARBON	150	5%	1/4W	C5202	1-104-664-11 ELECT	47MF	20%	25V
<SWITCH>									
S802	1-692-431-21 SWITCH, TACTILE (CONT+)				C5203	1-164-004-11 CERAMIC CHIP	0.1MF	10%	25V
S803	1-692-431-21 SWITCH, TACTILE (CONT-)				C5204	1-137-399-11 FILM	0.1MF	5%	50V
S804	1-692-431-21 SWITCH, TACTILE (MENU)				C5205	1-164-489-11 CERAMIC CHIP	0.22MF	10%	16V
S805	1-692-431-21 SWITCH, TACTILE (BRT+)				C5206	1-164-004-11 CERAMIC CHIP	0.1MF	10%	25V
S806	1-692-431-21 SWITCH, TACTILE (BRT-)				C5301	1-164-004-11 CERAMIC CHIP	0.1MF	10%	25V
S818	1-692-431-21 SWITCH, TACTILE (ASC)				C5303	1-164-004-11 CERAMIC CHIP	0.1MF	10%	25V
S820	1-692-431-21 SWITCH, TACTILE (RESET)				C5304	1-164-004-11 CERAMIC CHIP	0.1MF	10%	25V
<THERMISTOR>									
TH801	1-807-796-11 THERMISTOR				C5305	1-104-664-11 ELECT	47MF	20%	25V

* 8-933-279-00 J BOARD, COMPLETE									

<CONNECTOR>									
CN891*1-691-961-11 PIN, CONNECTOR (PC BOARD) 2P									

<SWITCH>									
S891 Δ 1-571-433-31 SWITCH, PUSH (AC POWER)									

* 8-933-263-00 L BOARD, COMPLETE									

<CAPACITOR>									
C5002	1-126-964-11 ELECT	10MF	20%	50V	D5002	8-719-801-78 DIODE	1SS184		
C5003	1-126-933-11 ELECT	100MF	20%	16V	D5101	8-719-800-76 DIODE	1SS226		
C5004	1-104-664-11 ELECT	47MF	20%	25V	D5103	8-719-800-76 DIODE	1SS226		
C5005	1-104-664-11 ELECT	47MF	20%	25V	D5201	8-719-800-76 DIODE	1SS226		
C5008	1-104-664-11 ELECT	47MF	20%	25V	D5301	8-719-800-76 DIODE	1SS226		
C5009	1-164-004-11 CERAMIC CHIP	0.1MF	10%	25V	D5303	8-719-800-76 DIODE	1SS226		
C5101	1-164-004-11 CERAMIC CHIP	0.1MF	10%	25V	D5401	8-719-800-76 DIODE	1SS226		
C5103	1-164-004-11 CERAMIC CHIP	0.1MF	10%	25V	D5403	8-719-800-76 DIODE	1SS226		
C5104	1-164-004-11 CERAMIC CHIP	0.1MF	10%	25V	D5501	8-719-976-96 ZENER DIODE	DTZ4.7C		

<CONNECTOR>									
CN5001*1-564-512-11PLUG, CONNECTOR 9P									
CN5002*1-564-509-11PLUG, CONNECTOR 6P									
CN5003 1-564-513-11PLUG, CONNECTOR 10P									
CN5004*1-564-507-11PLUG, CONNECTOR 4P									

<DIODE>									
D5002 8-719-801-78 DIODE 1SS184									
D5101 8-719-800-76 DIODE 1SS226									
D5103 8-719-800-76 DIODE 1SS226									
D5201 8-719-800-76 DIODE 1SS226									
D5301 8-719-800-76 DIODE 1SS226									
D5303 8-719-800-76 DIODE 1SS226									
D5401 8-719-800-76 DIODE 1SS226									
D5403 8-719-800-76 DIODE 1SS226									
D5501 8-719-976-96 ZENER DIODE DTZ4.7C									



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
		<SENSOR>		R5206	1-215-859-00	METAL OXIDE	22 5% 1W F
GS5001	*1-475-351-11	SENSOR UNIT, MAGNETIC		R5207	1-216-073-00	RES,CHIP	10K 5% 1/10W
		<IC>		R5208	1-216-670-11	METAL CHIP	6.2K 0.50% 1/10W
IC5101	8-759-822-38	IC LA6510		R5301	1-249-383-11	CARBON	1.5 5% 1/4W F
IC5201	8-759-803-42	IC LA6500-FA		R5302	1-249-383-11	CARBON	1.5 5% 1/4W F
IC5301	8-759-822-38	IC LA6510		R5308	1-216-308-00	RES,CHIP	4.7 5% 1/10W
IC5401	8-759-822-38	IC LA6510		R5309	1-216-308-00	RES,CHIP	4.7 5% 1/10W
		<RESISTOR>		R5310	1-216-073-00	RES,CHIP	10K 5% 1/10W
R5001	1-249-383-11	CARBON	1.5 5% 1/4W F	R5311	1-216-308-00	RES,CHIP	4.7 5% 1/10W
R5003	1-216-295-91	SHORT	0	R5312	1-249-383-11	CARBON	1.5 5% 1/4W F
R5005	1-216-689-11	RES,CHIP	39K 5% 1/10W	R5313	1-216-073-00	RES,CHIP	10K 5% 1/10W
R5006	1-216-073-00	RES,CHIP	10K 5% 1/10W	R5314	1-249-441-11	CARBON	100K 5% 1/4W F
R5007	1-216-049-91	RES,CHIP	1K 5% 1/10W	R5315	1-215-882-00	METAL OXIDE	22 5% 2W F
R5008	1-216-295-91	SHORT	0	R5316	1-216-073-00	RES,CHIP	10K 5% 1/10W
R5009	1-216-295-91	SHORT	0	R5317	1-216-308-00	RES,CHIP	4.7 5% 1/10W
R5010	1-216-295-91	SHORT	0	R5319	1-216-073-00	RES,CHIP	10K 5% 1/10W
R5011	1-216-073-00	RES,CHIP	10K 5% 1/10W	R5320	1-249-383-11	CARBON	1.5 5% 1/4W F
R5012	1-216-295-91	SHORT	0	R5321	1-249-441-11	CARBON	100K 5% 1/4W F
R5013	1-216-295-91	SHORT	0	R5322	1-215-882-00	METAL OXIDE	22 5% 2W F
R5015	1-216-049-91	RES,CHIP	1K 5% 1/10W	R5401	1-249-383-11	CARBON	1.5 5% 1/4W F
R5101	1-249-383-11	CARBON	1.5 5% 1/4W F	R5402	1-249-383-11	CARBON	1.5 5% 1/4W F
R5102	1-249-383-11	CARBON	1.5 5% 1/4W F	R5406	1-216-689-11	RES,CHIP	39K 5% 1/10W
R5108	1-216-308-00	RES,CHIP	4.7 5% 1/10W	R5407	1-216-079-00	RES,CHIP	18K 5% 1/10W
R5109	1-216-308-00	RES,CHIP	4.7 5% 1/10W	R5408	1-216-308-00	RES,CHIP	4.7 5% 1/10W
R5110	1-216-073-00	RES,CHIP	10K 5% 1/10W	R5409	1-216-308-00	RES,CHIP	4.7 5% 1/10W
R5111	1-216-308-00	RES,CHIP	4.7 5% 1/10W	R5410	1-216-089-91	RES,CHIP	47K 5% 1/10W
R5112	1-249-383-11	CARBON	1.5 5% 1/4W F	R5411	1-216-308-00	RES,CHIP	4.7 5% 1/10W
R5113	1-216-073-00	RES,CHIP	10K 5% 1/10W	R5412	1-249-383-11	CARBON	1.5 5% 1/4W F
R5114	1-249-441-11	CARBON	100K 5% 1/4W F	R5413	1-216-097-91	RES,CHIP	100K 5% 1/10W
R5115	1-215-882-00	METAL OXIDE	22 5% 2W F	R5414	1-249-441-11	CARBON	100K 5% 1/4W F
R5116	1-216-073-00	RES,CHIP	10K 5% 1/10W	R5415	1-215-886-11	METAL OXIDE	100 5% 2W F
R5117	1-216-308-00	RES,CHIP	4.7 5% 1/10W	R5416	1-216-077-00	RES,CHIP	15K 5% 1/10W
R5119	1-216-073-00	RES,CHIP	10K 5% 1/10W	R5417	1-216-308-00	RES,CHIP	4.7 5% 1/10W
R5120	1-249-383-11	CARBON	1.5 5% 1/4W F	R5419	1-216-089-91	RES,CHIP	47K 5% 1/10W
R5121	1-249-441-11	CARBON	100K 5% 1/4W F	R5420	1-249-383-11	CARBON	1.5 5% 1/4W F
R5122	1-215-882-00	METAL OXIDE	22 5% 2W F	R5421	1-249-441-11	CARBON	100K 5% 1/4W F
R5201	1-249-383-11	CARBON	1.5 5% 1/4W F	R5422	1-215-885-00	METAL OXIDE	68 5% 2W F
R5202	1-249-383-11	CARBON	1.5 5% 1/4W F	R5423	1-216-105-91	RES,CHIP	220K 5% 1/10W
R5203	1-249-383-11	CARBON	1.5 5% 1/4W F	R5501	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R5204	1-249-441-11	CARBON	100K 5% 1/4W F	R5502	1-216-681-11	METAL CHIP	18K 0.50% 1/10W
R5205	1-216-073-00	RES,CHIP	10K 5% 1/10W	R5503	1-216-681-11	METAL CHIP	18K 0.50% 1/10W
				R5504	1-216-093-00	RES,CHIP	68K 5% 1/10W
				R5505	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
				R5506	1-216-670-11	METAL CHIP	6.2K 0.50% 1/10W

6558-03N/03S/43N/43S

SERVICE MANUAL COLOR MONITOR



6558-03N/43N
US Model
Canadian Model
AEP Model
Japan Model

6558-03S/43S
S. Hemisphere Model

CORRECTION-1

File this correction with the service manual.

**SUBJECT : CORRECTION OF DIFFERENT COLOR PARTS
MISSING FROM PARTS LIST.**



: Indicates corrected portion

SECTION 6 EXPLODED VIEWS (See page 6-2 and 6-3)

Incorrect			Correct		
REF.NO.	PART NO.	DESCRIPTION	REF.NO.	PART NO.	DESCRIPTION
63	* 4-061-603-31	COVER, BOTTOM	63	* 4-061-603-31	COVER, BOTTOM (03N/03S)
63	* 4-061-603-51	COVER, BOTTOM (43N/43S)	66	X-4035-384-1	STAND ASSY (03N/03S)
66	X-4035-384-1	STAND ASSY	66	X-4035-590-2	STAND ASSY (43N/43S)
107	1-783-247-11	CABLE ASSY	107	1-783-247-11	CABLE ASSY (03N/03S)
107	1-783-250-11	CABLE ASSY	107	1-783-250-11	CABLE ASSY (43N/43S)