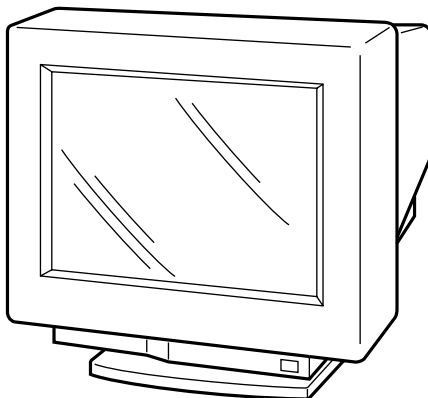


CPD-520GS/520GST/520GST9

SERVICE MANUAL

REVISED



CPD-520GS
US Model
Canadian Model
Chassis No. SCC-L04N-A

CPD-520GST
AEP Model
UK Model
Chassis No. SCC-L04N-A

CPD-520GST9
AEP Model
Chassis No. SCC-L04N-A

N3 CHASSIS

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 ³ / ₈ × 11 ¹ / ₂ inches) or Approx. 364 × 291 mm (w/h) (14 ³ / ₈ × 11 ¹ / ₂ inches)
Deflection frequency	Horizontal: 30 to 96 kHz Vertical: 48 to 160 Hz
AC input voltage/current	100 to 240 V, 50 – 60 Hz, 2.0 – 1.0 A
Power consumption	Max. 160 W
Dimensions	498 × 505 × 474 mm (w/h/d) (19 ⁵ / ₈ × 20 × 18 ³ / ₄ inches)
Mass	Approx. 31 kg (68 lb 5 oz)
Supplied accessories	See page 6

Design and specifications are subject to change without notice.

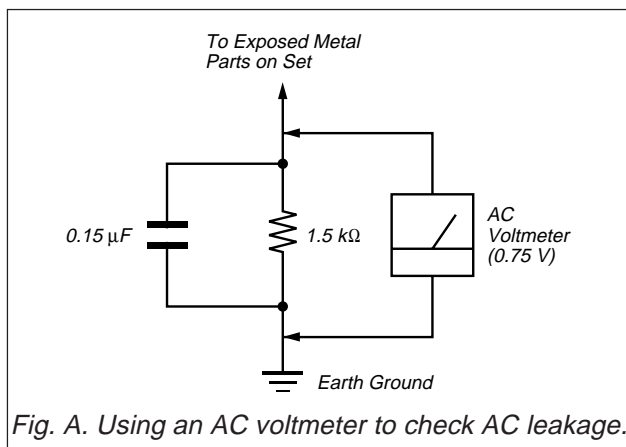
TRINITRON® COLOR COMPUTER DISPLAY

SONY®



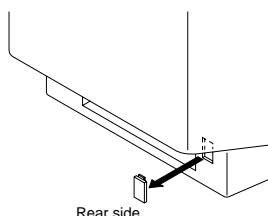
After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

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.



CAUTION ON DAS (ECS) CONNECTOR

- The connector for DAS (ECS) adjustment is provided inside the cover shown below. Be careful with an electrical shock when connecting the connector with the power supplied. Also, return the removed cover to the home position.



LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes).

Leakage current can be measured by any one of three methods.

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

WARNING!!

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

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK \triangle 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 \triangle 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 1-7.

Note

If no video signal is input to the monitor, the “NO INPUT SIGNAL” message (page 1-9) 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

Failre	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) (0.25 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” + (➡) key for longer than 2 second.

Reliability Check Mode : During Power Save, press “CONTRAST” – (⬅) key for longer than 2 second.

CPD-520GS/520GST/520GST9

TIMING SPECIFICATION

MODE	TEST MODE	
MODE AT PRODUCTION	MODE 1	MODE 2
RESOLUTION	738 X 414	1600 X 1200
CLOCK	28.322 MHZ	202.500 MHZ
— HORIZONTAL —		
H-FREQ	31.469 kHz	93.750 kHz
	usec	usec
H. TOTAL	31.777	10.667
H. BLK	5.720	2.765
H. FP	0.318	0.316
H. SYNC	3.813	0.948
H. BP	1.589	1.501
H. ACTIV	26.057	7.901
— VERTICAL —		
V. FREQ(HZ)	70.087Hz	75.000 Hz
	lines	lines
V. TOTAL	449	1250
V. BLK	35	50
V. FP	5	1
V. SYNC	2	3
V. BP	28	46
V. ACTIV	414	1200
— SYNC —		
INT(G)	NO	NO
EXT(H/V)/POLARITY	YES N/P	YES P/P
EXT(CS) /POLARITY	NO	NO
INT/NON INT	NON INT	NON INT

98.05.12 VER.

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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.

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

SECTION 1 GENERAL

Getting Started

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

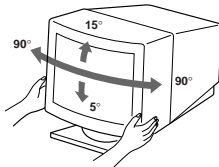
- Clean the cabinet, panel and controls with a soft cloth lightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent, such as alcohol or benzine.
- Do not rub, touch, or tap the surface of the screen with sharp or abrasive items such as a ballpoint pen or screwdriver. This type of contact may result in a scratched picture tube.
- Clean the screen with a soft cloth. If you use a glass cleaning liquid, do not use any type of cleaner containing an anti-static solution or similar additive as this may scratch the screen's coating.

Transportation

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

Use of the Tilt-Swivel

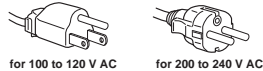
With the tilt-swivel, this monitor can be adjusted to the desired angle within 180° horizontally and 20° vertically. To turn the monitor vertically and horizontally, hold it at the bottom with both hands as illustrated below.



Warning on power connection

- Use an appropriate power cord for your local power supply.
For the customers in the U.S.A.
If you do not use the appropriate cord, this monitor will not conform to mandatory FCC standards.

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.

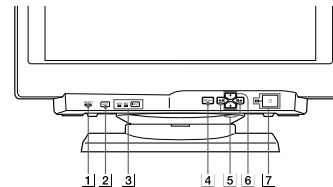
The outlet should be installed near the equipment and be easily accessible.

Getting Started

Identifying Parts and Controls

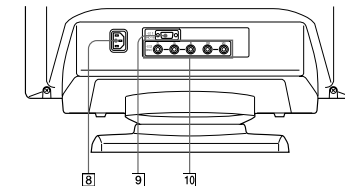
See the pages in parentheses for further details.

Front



- RESET (reset) button (page 17)**
Resets the adjustments to the factory settings.
- ASC (auto sizing and centering) button (page 7)**
Automatically adjusts the size and centering of the images.
- INPUT (input) button and HD15/BNC indicators (page 8)**
Selects the HD15 or 5BNC video input signal. Each time you press this button, the input signal and corresponding indicator alternate.
- MENU (menu) button (pages 8 - 17, 19)**
Displays the MENU OSD.
- Contrast (contrast) (←/→) buttons (pages 8 - 17, 22)**
Adjust the contrast.
Function as the (←/→) buttons when adjusting other items.
- Brightness (brightness) (↓/↑) buttons (pages 8 - 17)**
Adjust the picture brightness.
Function as the (↓/↑) buttons when adjusting other items.
- Power switch and indicator (pages 19, 22)**
Turns the monitor on or off.
The indicator lights up in green when the monitor is turned on, and either flashes in green and orange or lights up in orange when the monitor is in power saving mode.

Rear



- AC IN connector**
Provides AC power to the monitor.
- Video input 1 connector (HD15)**
Inputs RGB video signals (0.700 Vp-p, positive) and SYNC signals.



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

* Display Data Channel (DDC) Standard of VESA

- Video input 2 connector (5 BNC)**
Inputs RGB video signals (0.700 Vp-p, positive) and SYNC signals.

EN

Setup

Before using this monitor, check that the following items are included in your carton:

- Monitor (1)
- Power cord (1)
- HD15 video signal cable (1)
- Macintosh adapter (1)
- Windows® 95 Monitor Information Disk/File (1)
- Warranty card (1)
- Notes on cleaning the screen's surface (1)
- These operating instructions (1)

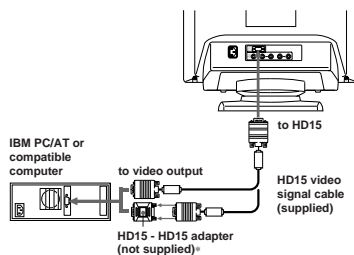
This monitor works with any IBM or compatible system equipped with VGA or greater graphics capability. Although this monitor works with other platforms running at horizontal frequencies between 30 and 96 kHz, including Macintosh and Power Macintosh systems, a cable adapter is required. Please consult your dealer for advice on which adapter is suitable for your needs.

Step 1: Connect the monitor to the computer

With the computer switched off, connect the video signal cable to the monitor using the supplied HD15 video signal cable.

- If you are using an IBM PC/AT or compatible computer, refer to the section below.
- If you are using a Macintosh or compatible computer, refer to the following section, "Connecting to a Macintosh or compatible computer."
- If you want to use the 5 BNC connectors, refer to the section, "Connecting to the 5 BNC connectors."

Connecting to an IBM PC/AT or compatible computer

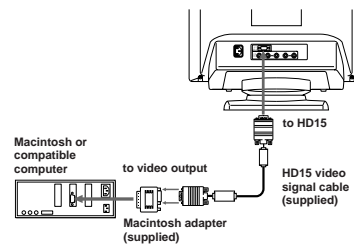


* The HD15 - HD15 adapter may be needed for some models.

If your PC system is not compatible with DDC2AB and DDC2B+

This monitor uses the No. 9 pin in the video signal connector for DDC2AB and DDC2B+ compatibility. Some PC systems which are not compatible with either DDC2AB or DDC2B+ may not accept the No. 9 pin. If you are not sure whether your PC system accepts the No. 9 pin or not, use the HD15 (Female) - HD15 (Male without the No. 9 pin) adapter (not supplied). Make sure the male side (without the No. 9 pin) is connected to the computer.

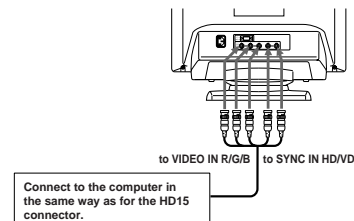
Connecting to a Macintosh or compatible computer



About the supplied Macintosh adapter

The supplied Macintosh adapter is compatible with Macintosh LC, Performa, Quadra and Power Macintosh series computers. Macintosh II series and some older versions of Power Book models may need an adapter with micro switches (not supplied).

Connecting to the 5 BNC connectors



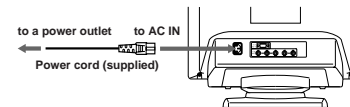
To connect the 5 BNC connectors, use the SMF-400 video signal cable (sold separately). Connect the cables from left to right in the following order: Red-Green-Blue-HD-VD.

Notes

- Do not short the pins of the video signal cable.
- The DDC standard does not apply to the 5 BNC connectors. If you use the DDC standard, connect the HD15 connector to the computer with the supplied video signal cable.

Step 2: Connect the power cord

With the monitor switched off, connect one end of the power cord 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 20.

For customers using Windows® 95

Install the new model information from the "Windows 95 Monitor Information Disk" into your PC. (To install the file, refer to the attached "About the Windows 95 Monitor Information Disk/File.")

This monitor complies with the "VESA DDC" Plug&Play standard. If your PC/graphics board complies with DDC, select "Plug and Play Monitor (VESA DDC)" as "Monitor type" from "Control Panel" in Windows 95. Some PCs/graphics boards do not comply with DDC. Even if your computer complies with DDC, it may have some problems connecting with this monitor. In this case, select this monitor's model name (CPD-520CS) as "Monitor type" in Windows 95.

For customers using Windows NT4.0

Monitor setup in Windows NT4.0 is different from Windows 95 and does not involve the selection of monitor type. Refer to the Windows NT4.0 instruction manual for further details on adjusting the resolution, refresh rate, and number of colors.

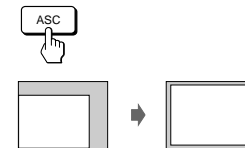
Automatically Adjusting the Size and Centering of the Picture

By pressing the auto sizing and centering (ASC) 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 ASC button.

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



Notes

- This function is intended for use with a computer running Windows or similar 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 (such as an MS-DOS prompt).
- 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 × 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 17. The default setting is English.

Getting Started

Selecting the Input Signal

This monitor has two signal input connectors (HD15 and 5BNC) and can be connected to two computers. When the power of both computers is on, select the input signal you want to view as follows.

- 1 Turn on the monitor and both computers.
- 2 Press the **INPUT** button to select the HD15 or 5BNC input signal.
Each time you press the INPUT button, the input signal and corresponding indicator alternate.



Selecting the INPUT signal mode

This monitor has two modes of input signal selection, "AUTO" and "MANUAL."

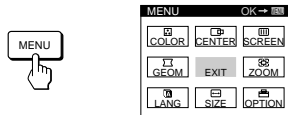
When "AUTO" is selected

If no signal is input from the selected connector, the monitor automatically selects the other connector's signal. When 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 using the INPUT button.

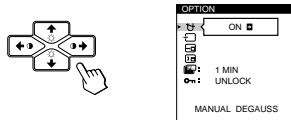
When "MANUAL" is selected

Even if no signal is input from the selected connector, the monitor does not select the other connector's signal.

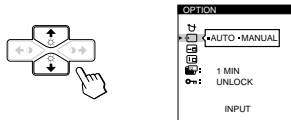
- 1 Press the **MENU** button.
The MENU OSD appears.



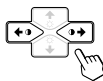
- 2 Press the **OPTION** button and press the **MENU** button again.
The OPTION OSD appears.



- 3 Press the **OPTION** button to select " (INPUT)."



- 4 Press the **OPTION** button to select "AUTO" or "MANUAL."



The OPTION OSD automatically disappears after about 30 seconds.

To close the OSD, press the MENU button again.

For more information on using the OSD, see "Introducing the On-screen Display System" on page 9.

Customizing Your Monitor

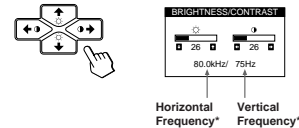
Before adjusting

- Connect the monitor and the computer, and turn them on.
- Select "LANG" in the MENU OSD, then select "ENGLISH" (see page 17).

Adjusting the Picture Brightness and Contrast

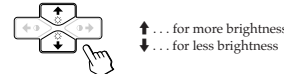
Once the setting is adjusted, it will be stored in memory for all input signals received.

- 1 Press the **BRIGHTNESS** or **CONTRAST** buttons.
The BRIGHTNESS/CONTRAST OSD appears.



- 2 For brightness adjustment

Press the **BRIGHTNESS** buttons.



For contrast adjustment

Press the **CONTRAST** 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.

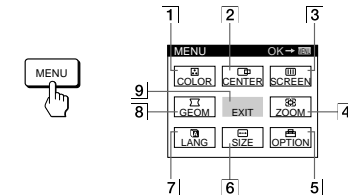
Introducing the On-screen Display System

Most adjustments are made using the MENU OSD.

MENU OSD

Press the **MENU** 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.

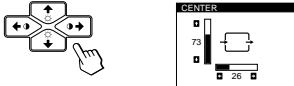
Using the CENTER On-screen Display

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.

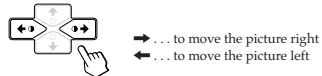
- 1 Press the MENU button. The MENU OSD appears.



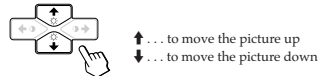
- 2 Press the and buttons to select "CENTER," and press the MENU button again. The CENTER OSD appears.



- 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 MENU 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.

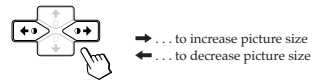
- 1 Press the MENU button. The MENU OSD appears.



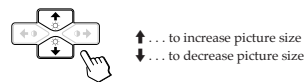
- 2 Press the and buttons to select "SIZE," and press the MENU button again. The SIZE OSD appears.



- 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 MENU 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.

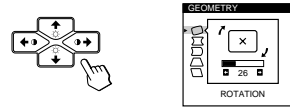
Using the GEOM (Geometry) On-screen Display

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.

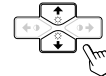
- 1 Press the MENU button. The MENU OSD appears.



- 2 Press the and buttons to select "GEOM," and press the MENU button again. The GEOMETRY OSD appears.

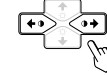


- 3 Press the and buttons to select the item you want to adjust.



Select	To
ROTATION	adjust the picture rotation
PINCUSHION	adjust the picture sides
PIN BALANCE	adjust the picture side balance
KEYSTONE	adjust the picture width
KEY BALANCE	adjust the picture shape balance

- 4 Press the 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 MENU 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.

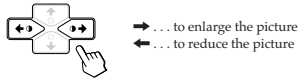
- 1 Press the MENU button. The MENU OSD appears.



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



- 3 Press the buttons to adjust the picture zoom.



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

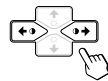
- 1 Press the MENU button. The MENU OSD appears.



- 2 Press the and buttons to select "COLOR," and press the MENU 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

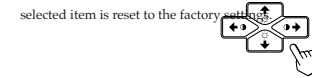
Using the SCREEN On-screen Display

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.

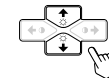
- 1 Press the MENU button. The MENU OSD appears.



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



- 3 Press the and 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

(continued)

- 4 Fine tuning the color temperature
Press the and buttons to select R (red), G (green), or B (blue) and adjust by pressing the buttons.



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 MENU button again.

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

Customizing Your Monitor

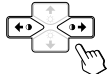
Select	To
LANDING	select one of the four corners that needs color correction due to influence from the earth's magnetism
LANDING ADJUST	correct the color at one of the four corners of the screen
CANCEL MOIRE *	turn the moire cancellation function "ON" or "OFF." CANCEL MOIRE must be "ON" for " ADJ (MOIRE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

* Moire is a type of natural interference which produces soft or 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	<p> ... to shift red shadows to the right and blue shadows to the left</p> <p> ... to shift red shadows to the left and blue shadows to the right</p>
V CONVERGENCE	<p> ... to shift red shadows up and blue shadows down</p> <p> ... to shift red shadows down and blue shadows up</p>
TOP V CONVER TOP	<p> ... to shift red shadows up and blue shadows down</p> <p> ... to shift red shadows down and blue shadows up</p>

For	Press
BOT V CONVER BOTTOM	<p> ... to shift red shadows up and blue shadows down</p> <p> ... to shift red shadows down and blue shadows up</p>
LANDING	<p> or ... to select the corner of the screen you want to adjust</p> <p> : top left : top right</p> <p> : bottom left : bottom right</p>
ADJ LANDING ADJUST	<p> or ... to reduce any irregularities in the color to a minimum</p>
CANCEL MOIRE	<p> ... to turn CANCEL MOIRE "ON"</p> <p> ... to turn CANCEL MOIRE "OFF"</p>
ADJ MOIRE ADJUST	<p> or ... to adjust the screen until the moire is at a minimum</p>

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 MENU button again.

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

Customizing Your Monitor

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.

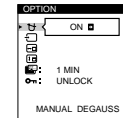
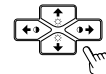
Degaussing the screen

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

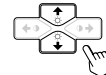
1 Press the MENU button. The MENU OSD appears.



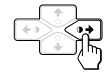
2 Press the and buttons to select " OPTION," and press the MENU button again. The OPTION OSD appears.



3 Press the buttons to select " (MANUAL DEGAUSS)."



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 MENU button again.

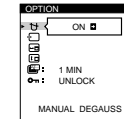
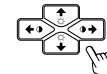
Changing the on-screen display position

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

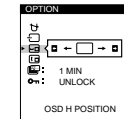
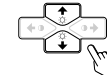
1 Press the MENU button. The MENU OSD appears.



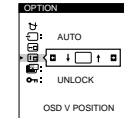
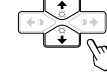
2 Press the and buttons to select " OPTION," and press the MENU button again. The OPTION OSD appears.



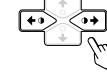
3 Press the buttons to select " (OSD H POSITION)" or " (OSD V POSITION)." Select " (OSD H POSITION)" to adjust the horizontal position.



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



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



The OPTION OSD automatically disappears after about 30 seconds.

To close the OSD, press the MENU button again.

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

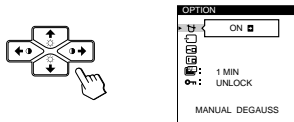
Setting the power saving delay time

You can set the delay time before the monitor enters the power saving mode. See page 19 for more information on this monitor's power saving capabilities.

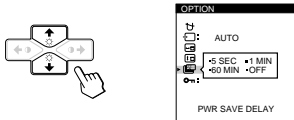
- 1 Press the MENU button.
The MENU OSD appears.



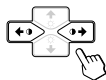
- 2 Press the and buttons to select "OPTION," and press the MENU button again.
The OPTION OSD appears.



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



- 4 Press the 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 MENU button again.

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

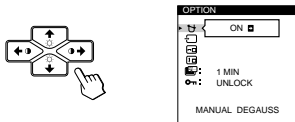
Locking the controls

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

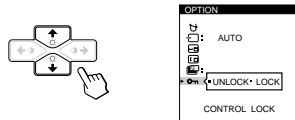
- 1 Press the MENU button.
The MENU OSD appears.



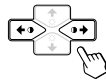
- 2 Press the and buttons to select "OPTION," and press the MENU button again.
The OPTION OSD appears.



- 3 Press the and buttons to select "CONTROL LOCK."



- 4 Press the buttons to select "LOCK."



The OPTION OSD automatically disappears after about 30 seconds.

To close the OSD, press the MENU 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, MENU and INPUT buttons, the mark appears on the screen.

To cancel the control lock

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

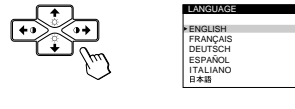
Using the LANG (Language) On-screen Display

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

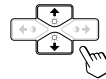
- 1 Press the MENU button.
The MENU OSD appears.



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



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



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

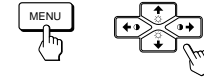
The OSD automatically disappears after about 30 seconds. To close the OSD, press the MENU button again.

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

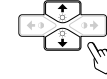
Resetting the Adjustments

Resetting an adjustment item

- 1 Press the MENU, 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 input signals

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.



Preset and User Modes

This monitor has factory preset modes for the most popular industry standards for true "plug and play" compatibility.

When a new input signal is entered, the monitor selects the appropriate factory preset mode and momentarily adjusts the phase calibration to provide a high quality picture to the center of the screen. The calibration is stored in memory and is immediately recalled whenever the same input signal is received.

No.	Resolution (dots × lines)	Horizontal Frequency	Vertical Frequency	Graphics Mode
1	640 × 350	31.5 kHz	70 Hz	MCGA
2	640 × 480	31.5 kHz	60 Hz	VGA-G
3	640 × 480	37.5 kHz	75 Hz	EVGA
4	640 × 480	43.3 kHz	85 Hz	VESA
5	720 × 400	31.5 kHz	70 Hz	VGA-Text
6	720 × 400	37.9 kHz	85 Hz	VESA
7	800 × 600	37.9 kHz	60 Hz	SVGA
8	800 × 600	46.9 kHz	75 Hz	ESVGA
9	800 × 600	53.7 kHz	85 Hz	VESA
10	832 × 624	49.7 kHz	75 Hz	Macintosh 16" Color
11	1024 × 768	48.4 kHz	60 Hz	VESA
12	1024 × 768	56.5 kHz	70 Hz	VESA
13	1024 × 768	60.0 kHz	75 Hz	EUVGA
14	1024 × 768	60.2 kHz	75 Hz	Macintosh 19" Color
15	1024 × 768	68.7 kHz	85 Hz	VESA
16	1152 × 864	67.5 kHz	75 Hz	VESA
17	1152 × 870	68.7 kHz	75 Hz	Macintosh 21" Color
18	1280 × 960	60.0 kHz	60 Hz	VESA
19	1280 × 960	85.9 kHz	85 Hz	VESA
20	1280 × 1024	64.0 kHz	60 Hz	VESA
21	1280 × 1024	80.0 kHz	75 Hz	VESA
22	1280 × 1024	91.1 kHz	85 Hz	VESA
23	1600 × 1200	75.0 kHz	60 Hz	VESA
24	1600 × 1200	81.3 kHz	65 Hz	VESA
25	1600 × 1200	87.5 kHz	70 Hz	VESA
26	1600 × 1200	93.8 kHz	75 Hz	VESA

For input signals that do not match one of the factory preset modes, the digital Multiscan technology of this monitor performs all of the adjustments necessary to ensure that a clear picture appears on the screen for any timing in the monitor's frequency range. However, it may be necessary to fine tune the vertical/horizontal size and centering. Simply press the ASC button or adjust the monitor according to the adjustment instructions. The adjustments are stored automatically as a user mode and recalled whenever the corresponding input signal is received. A total of 15 user adjusted modes can be stored in memory.

Recommended horizontal and vertical timing conditions

Horizontal sync width duty should be: >4.8% of total horizontal time.

Horizontal blanking width should be: >2.8 μsec.

Vertical blanking width should be: >45.0 μsec.

Note for Windows® users

For Windows users, check your video board manual or the utility program which comes with your graphic board and select the highest available refresh rate to maximize monitor performance.

Adjusting the monitor's resolution and color number

If you are using Windows 95, adjust the monitor's resolution and color number according to the steps below. Refer also to the Windows 95 HELP files.

If you are using a Macintosh or compatible computer, Refer to your computer's instruction manual.

- 1 Click the Start button and point to Settings. Then double-click the Control Panel.
- 2 Double-click the Display icon.
- 3 Click Settings.
- 4 Click the Color palette. Point to the desired color number and click. Point to the Desktop area and drag the slider to the desired resolution.
- 5 Click OK.

Note

Some settings may require that the computer be turned off then back on to take effect. In this case, follow the on-screen instructions.

About the color number

- The Color palette setting and the actual number of colors is as follows:
High Color (16 bit) → 65,536 colors
True Color (24 bit) → about 16.77 million colors
- In True color mode (24 bit), speed may be slower.
- The color number may vary according to your computer or video board.

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.

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

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 16.

Note

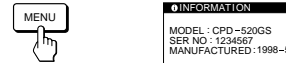
If no video signal is input to the monitor, the "NO INPUT SIGNAL" message (page 20) appears. After the delay time has passed, the power saving function automatically puts the monitor into the active-off mode and the indicator lights up orange. Once the horizontal and vertical sync signals are detected, the monitor automatically resumes its normal operation mode.

Displaying the Monitor's Information Box

You can display the model name, serial number and year of manufacture using the monitor's INFORMATION OSD.

Press and hold the MENU button for 5 seconds. The INFORMATION OSD appears.

Example:

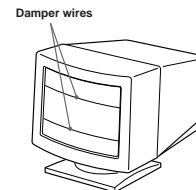


The INFORMATION OSD includes the model name, serial number, manufactured year, and manufactured week.

The OSD automatically disappears after about 30 seconds.

Damper Wires

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.



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.

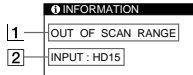
DDC™ is a trademark of the Video Electronics Standard Association.

Note

When using Windows® 95, the DDC standard does not apply to the 5 BNC connectors. If you use the DDC standard, connect the HD15 connector to the computer with the supplied video signal cable.

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, “HD15” and “BNC” 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.

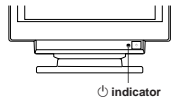
Symptom	Check these items
No picture	
If the indicator is not lit	<ul style="list-style-type: none"> Check that the power cord is properly connected. Check that the (power) switch is in the “on” position.
If the “NO INPUT SIGNAL” message appears on the screen, or if the indicator is either orange or 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. Check that the 5 BNCs are connected in the correct order (from left to right: Red-Green-Blue-HD-VD) (page 6). Ensure that no pins are bent or pushed in the HD15 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 – 96 kHz, Vertical: 48 – 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 indicator is green or flashing orange	<ul style="list-style-type: none"> See “Self-diagnosis Function” (page 22).
If using a Macintosh system	<ul style="list-style-type: none"> Check that the Macintosh adapter and the video signal cable are properly connected (page 6).
If using Windows® 95	<ul style="list-style-type: none"> If you cannot find your model’s name (CPD-520GS) among the Sony monitors in the Windows 95 monitor selection screen, select the DDC standard monitor or install the Windows 95 Monitor Information Disk (page 7). The DDC standard does not apply to the 5 BNC connectors. If you use the DDC standard, connect the computer to the HD15 connector with the supplied video signal cable.
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.

Symptom	Check these items
Color is not uniform	<ul style="list-style-type: none"> Degauss the monitor (page 15). 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 13 – 14).
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 16).
White does not look white	<ul style="list-style-type: none"> Adjust the color temperature (pages 12 – 13). Check that the 5 BNCs are connected in the correct order (from left to right: Red-Green-Blue-HD-VD) (page 6).
Screen image is not centered or sized properly	<ul style="list-style-type: none"> Press the ASC button (page 7). Adjust the size or centering (page 10). 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 (page 11).
White lines show red or blue shadows at edges	<ul style="list-style-type: none"> Adjust the convergence (pages 13 – 14).
Picture is fuzzy	<ul style="list-style-type: none"> Adjust the contrast and brightness (page 9). Degauss the monitor (page 15). 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 13 – 14). If the moire is cancelled, the picture may become fuzzy. Decrease the moire cancellation effect (pages 13 – 14).
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 13 – 14). 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 19). 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.


Additional Information

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  indicator will either light up green or flash orange.



If the 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  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 authorized Sony dealer of the monitor's condition.

If the indicator is flashing orange

Press the  button to turn the monitor off and on.

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

If the  indicator is still flashing, there is a potential monitor failure. Count the number of seconds between orange flashes of the  indicator and inform your authorized Sony dealer 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.

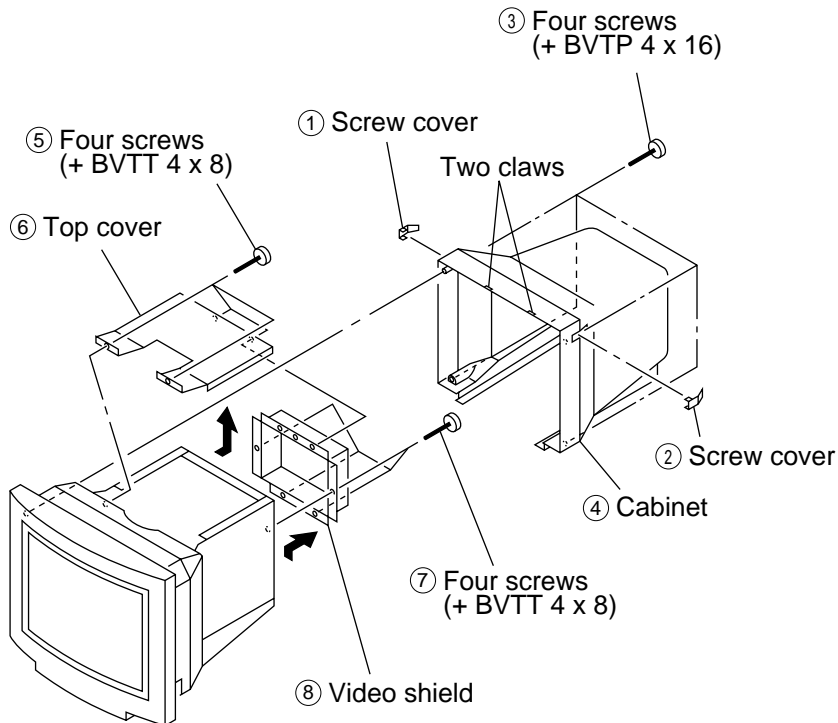
Specifications

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 ³ / ₈ × 11 ¹ / ₂ inches) or Approx. 364 × 291 mm (w/h) (14 ³ / ₈ × 11 ¹ / ₂ inches)
Deflection frequency	Horizontal: 30 to 96 kHz Vertical: 48 to 160 Hz
AC input voltage / current	100 to 240 V, 50 – 60 Hz, 2.0 – 1.0 A
Power consumption	Max. 160 W
Dimensions	498 × 505 × 474 mm (w/h/d) (19 ⁵ / ₈ × 20 × 18 ³ / ₄ inches)
Mass	Approx. 31 kg (68 lb 5 oz)
Supplied accessories	See page 6

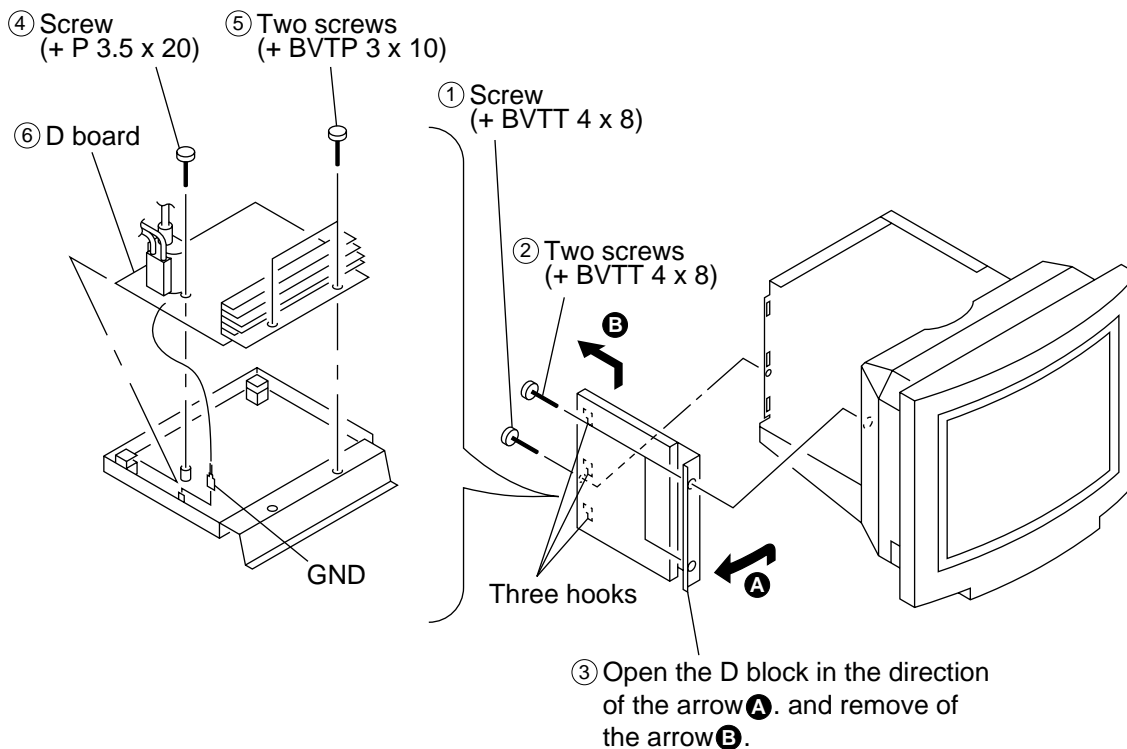
Design and specifications are subject to change without notice.

SECTION 2 DISASSEMBLY

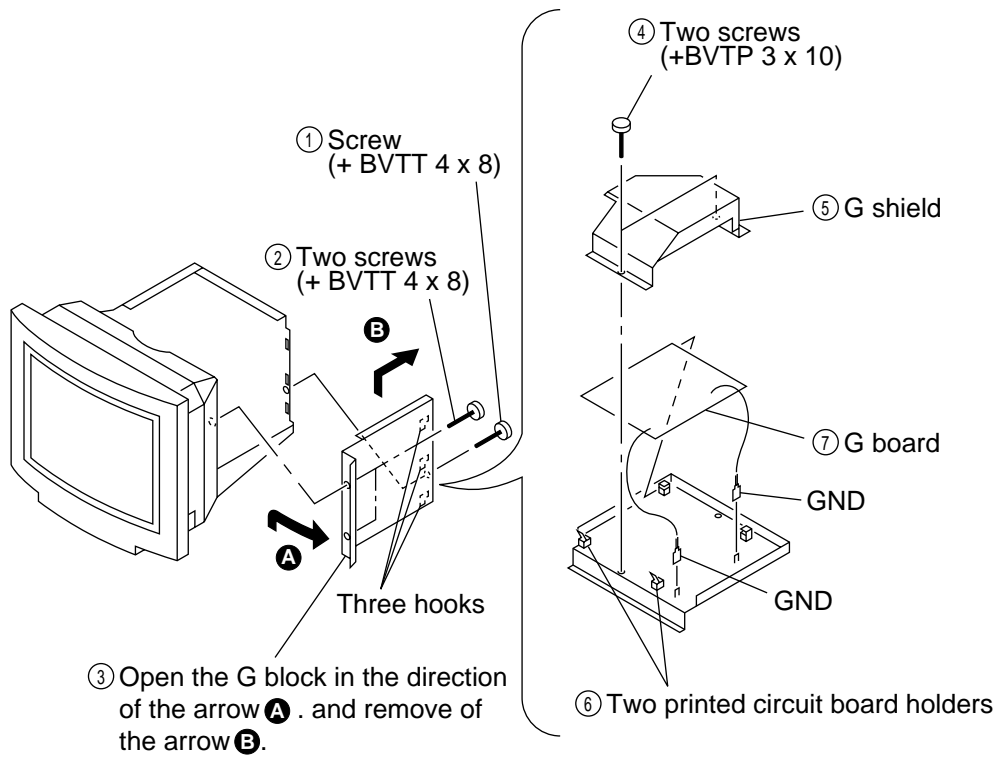
2-1. CABINET REMOVAL



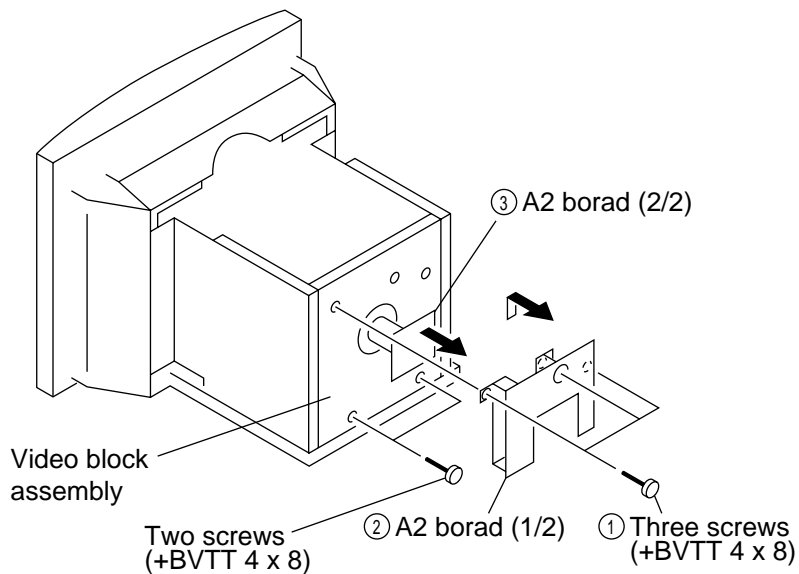
2-2. D BOARD REMOVAL



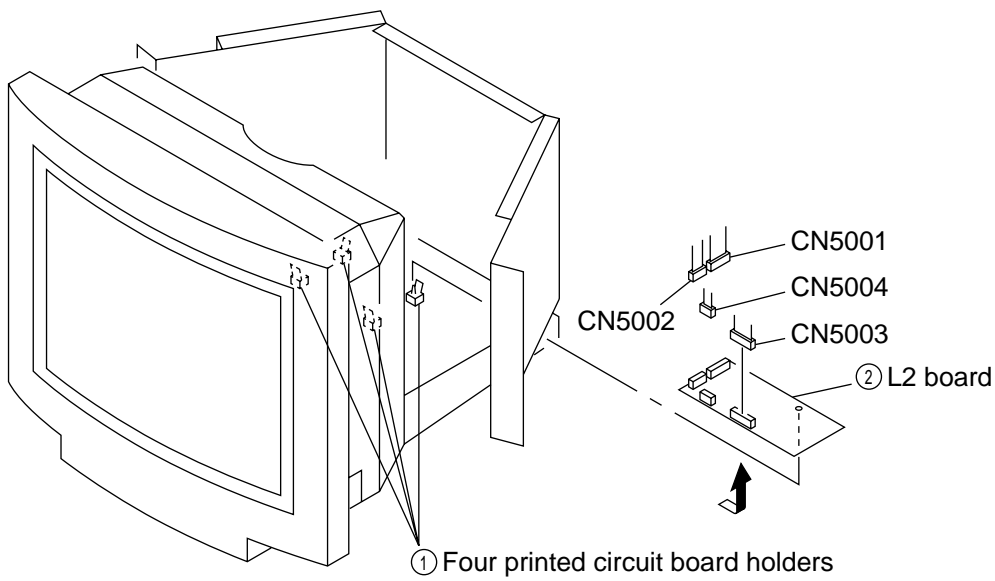
2-3. G BOARD REMOVAL



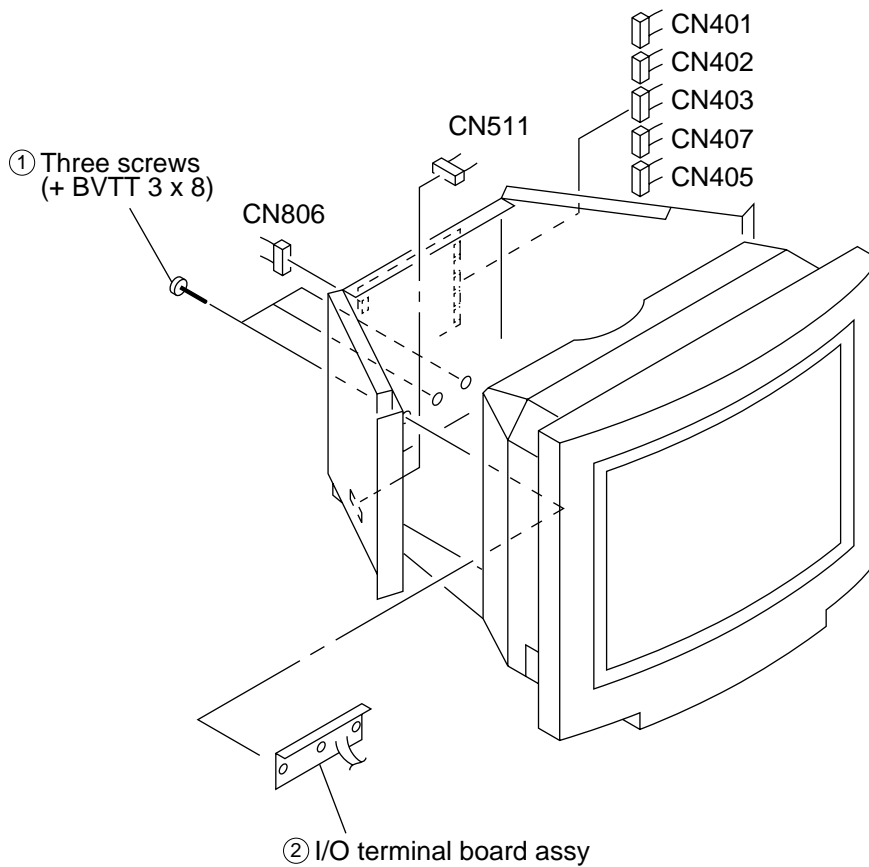
2-4. A2 BOARD REMOVAL



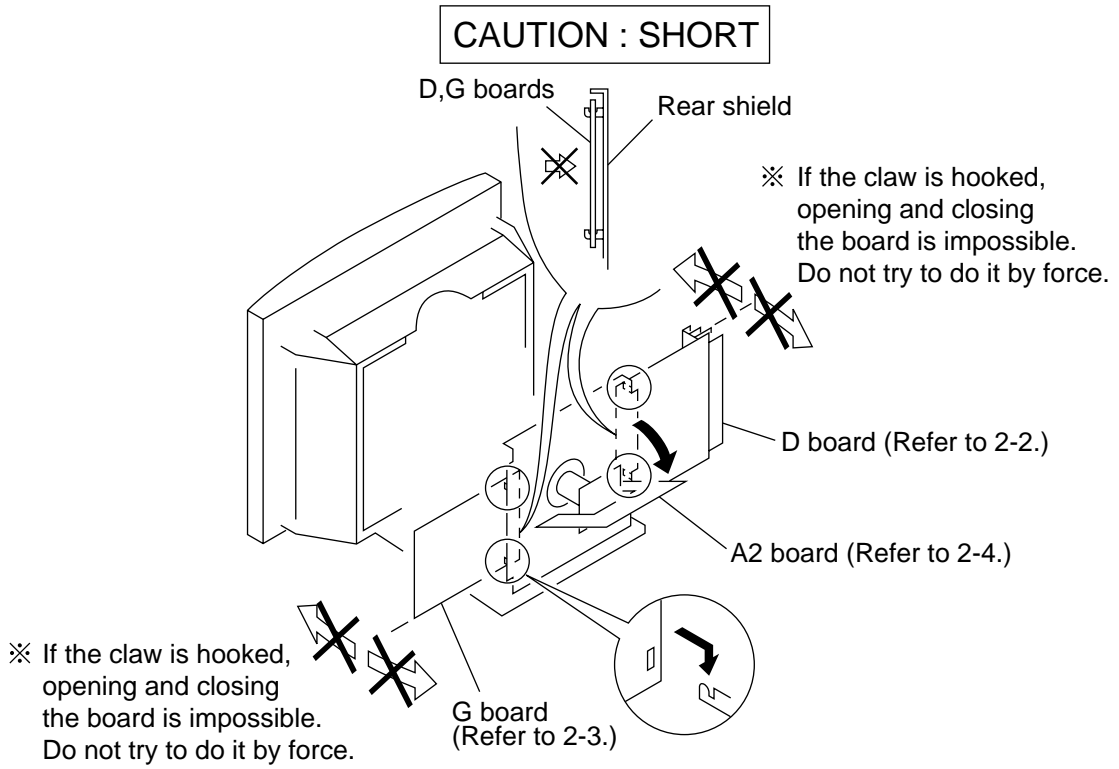
2-5. L2 BOARD REMOVAL



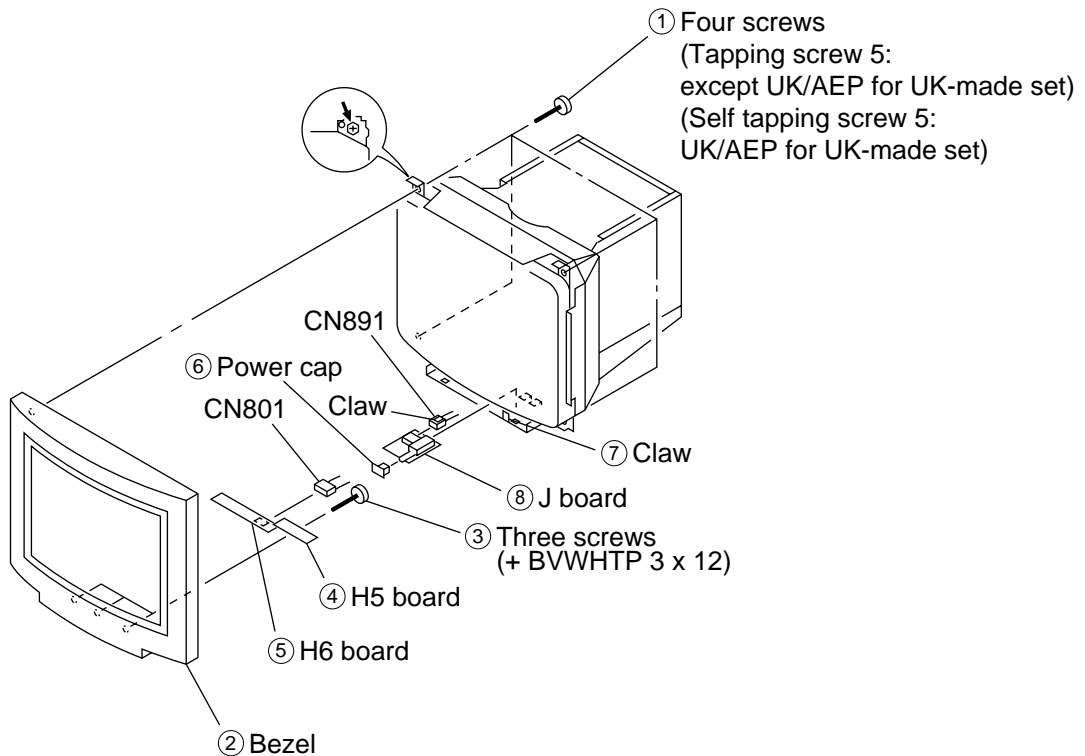
2-6. I/O TERMINAL BOARD ASSY REMOVAL



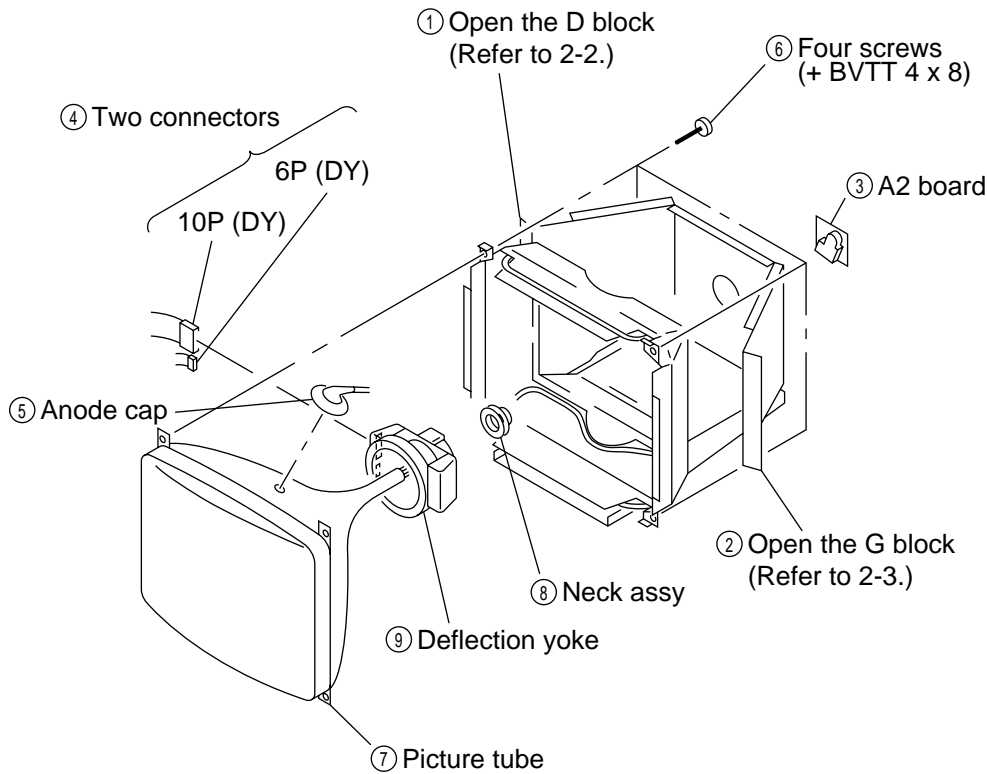
2-7. SERVICE POSITION



2-8. H5, H6 AND J BOARDS REMOVAL



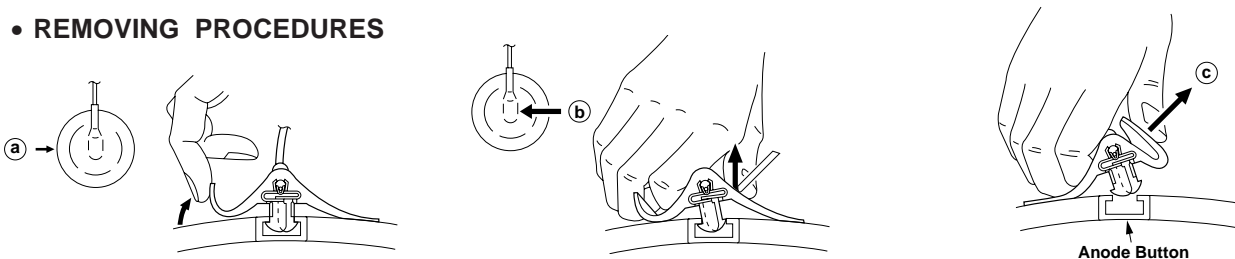
2-9. PICTURE TUBE REMOVAL



• 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.

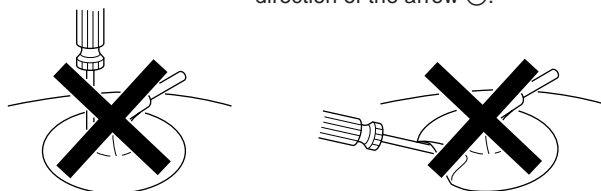
• REMOVING PROCEDURES



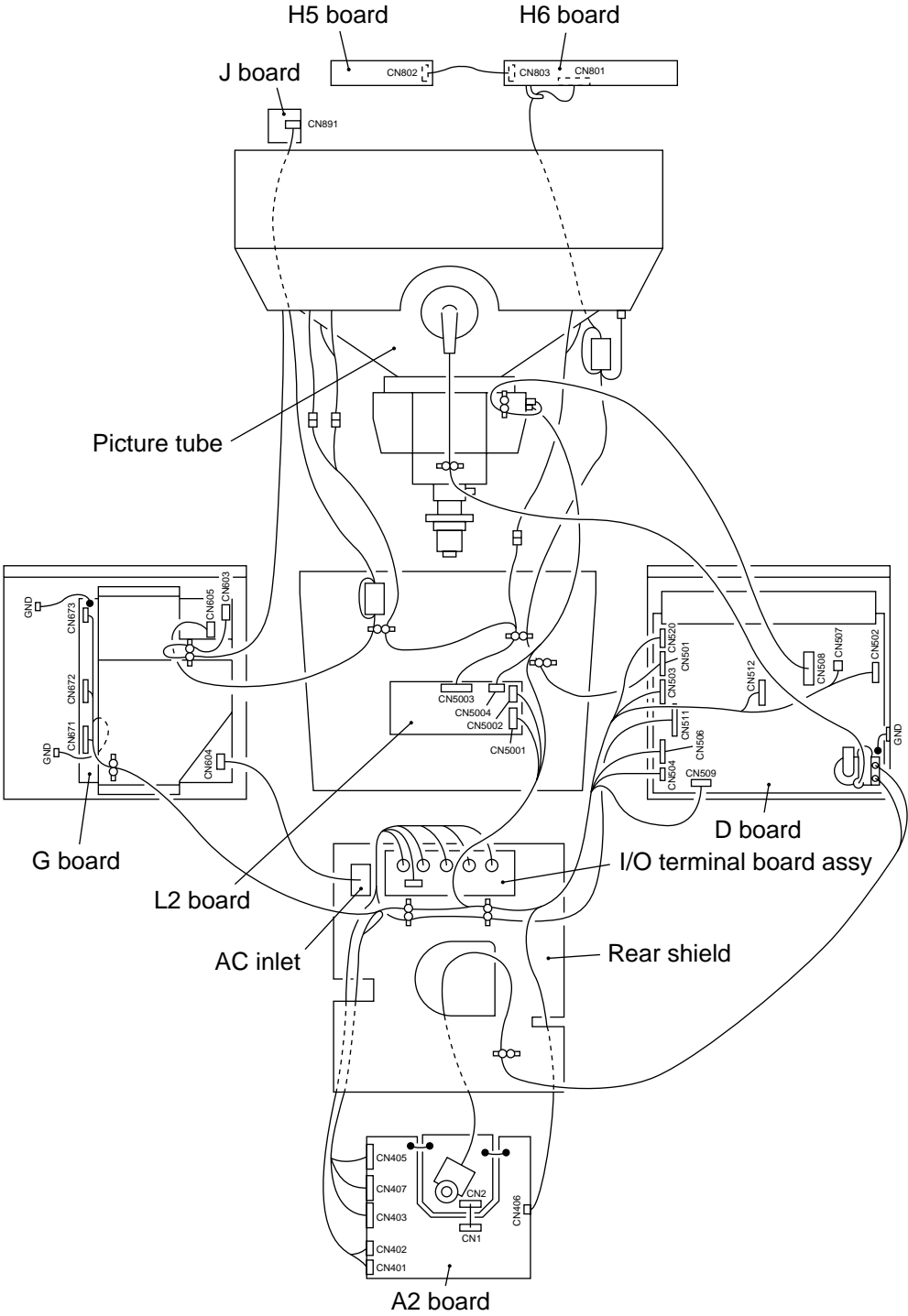
- ① Turn up one side of the rubber cap in the direction indicated by the arrow ①.
- ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ②.
- ③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap 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 hardy 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.



2-10. HARNESS LOCATION



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 (FBT) • Mounted D board
HV Protector Circuit Check	D Board Q660, Q661, D916, D935, C924, R665, R667, R940, R980, T902 (FBT) • 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 (FBT) • 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 : 180 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

SECTION 4 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

(μm)		
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.

(μm)		
± 6	± 6	± 6
± 6	± 4	± 6
± 6	± 6	± 6

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

(μm)		
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

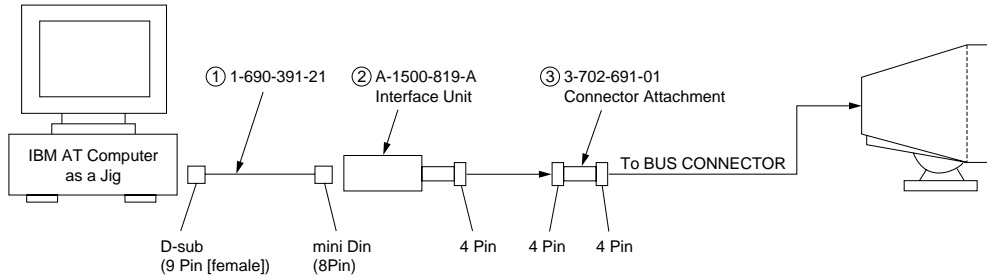
"LCC LT", "LCC LB", "LCC RT", "LCC RB" 128 ± 40

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.

CPD-520GS/520GST/520GST9

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".

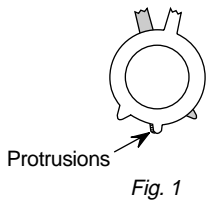


Fig. 1

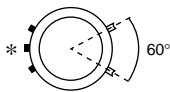


Fig. 3

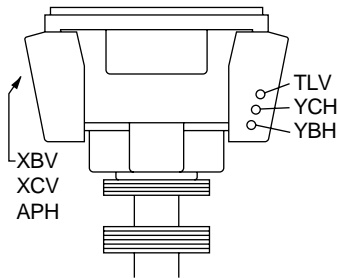
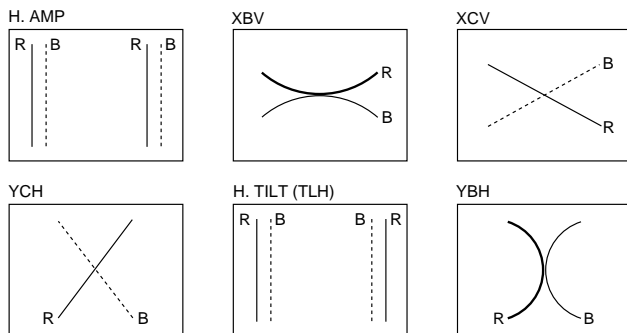
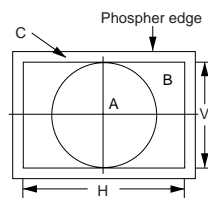


Fig. 2

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



• Convergence Specification

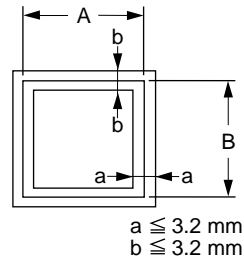


MODE	Zone	N. Hemisphere	S. Hemisphere
fH> 60 kHz	A Zone	0.24 mm	0.24 mm
	B Zone	0.24 mm	0.28 mm
	C Zone	0.32 mm	0.32 mm
fH< 60 kHz	A Zone	0.24 mm	0.28 mm
	B Zone	0.32 mm	0.36 mm
	C Zone	0.36 mm	0.40 mm

• White Balance Adjustment Specification

- (1) 9300K
 $x = 0.283 \pm 0.005$
 $y = 0.298 \pm 0.005$
 (All White)
- (2) 6500K
 $x = 0.313 \pm 0.005$
 $y = 0.329 \pm 0.005$
 (All White)

• Vertical and Horizontal Position and Size Specification



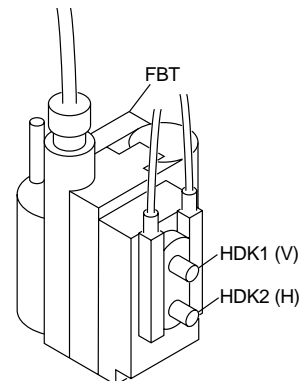
MODE	1, 2
A	388 mm
B	291 mm

$$a \leq 3.2 \text{ mm}$$

$$b \leq 3.2 \text{ mm}$$

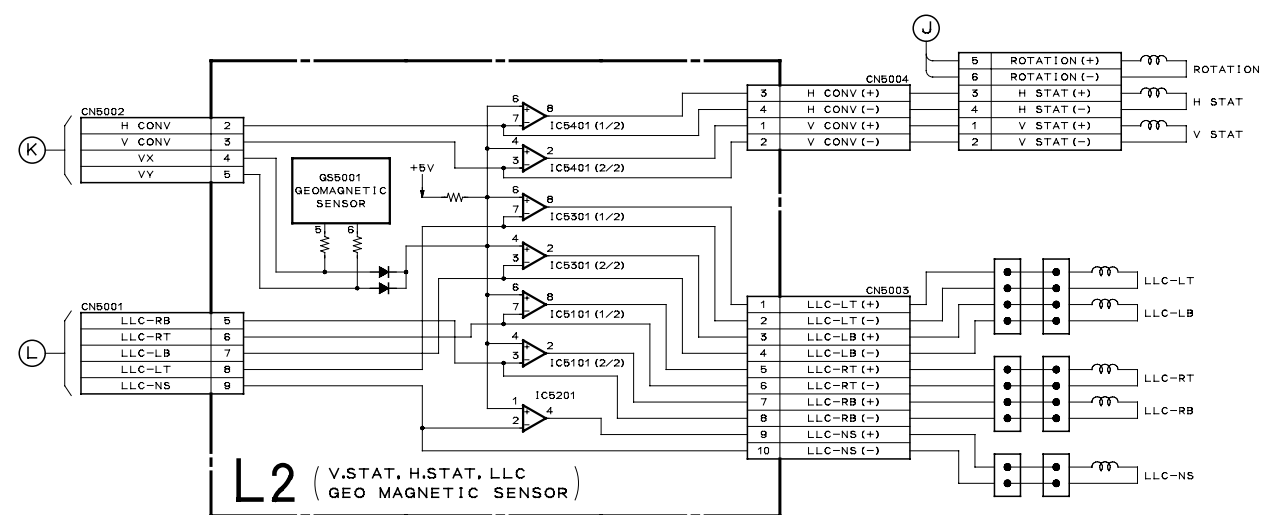
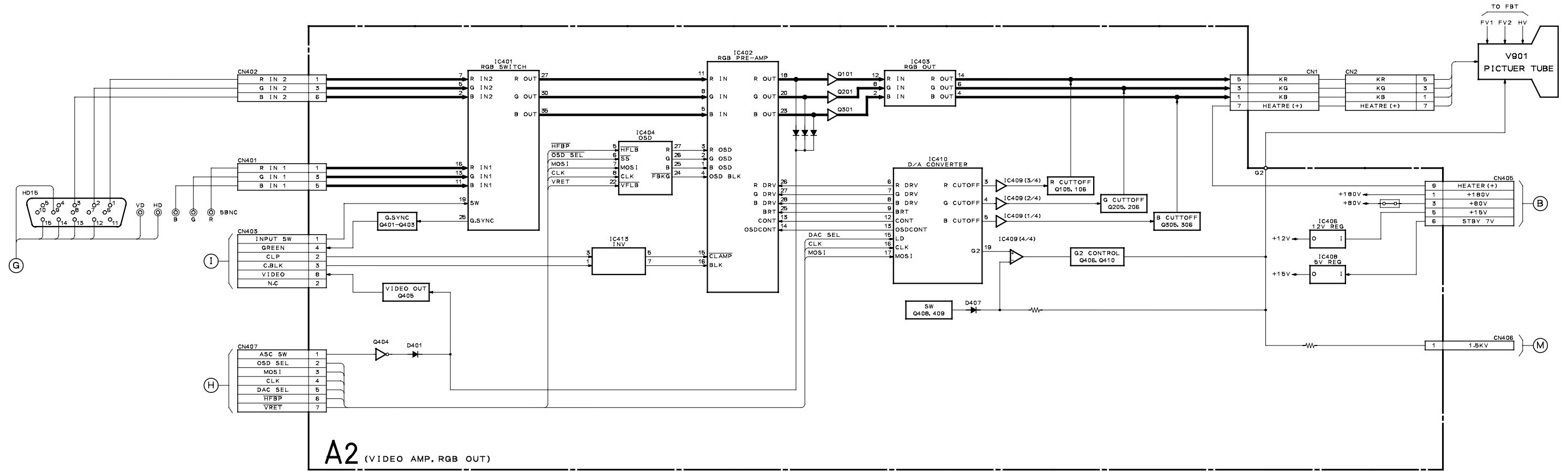
• Focus adjustment

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

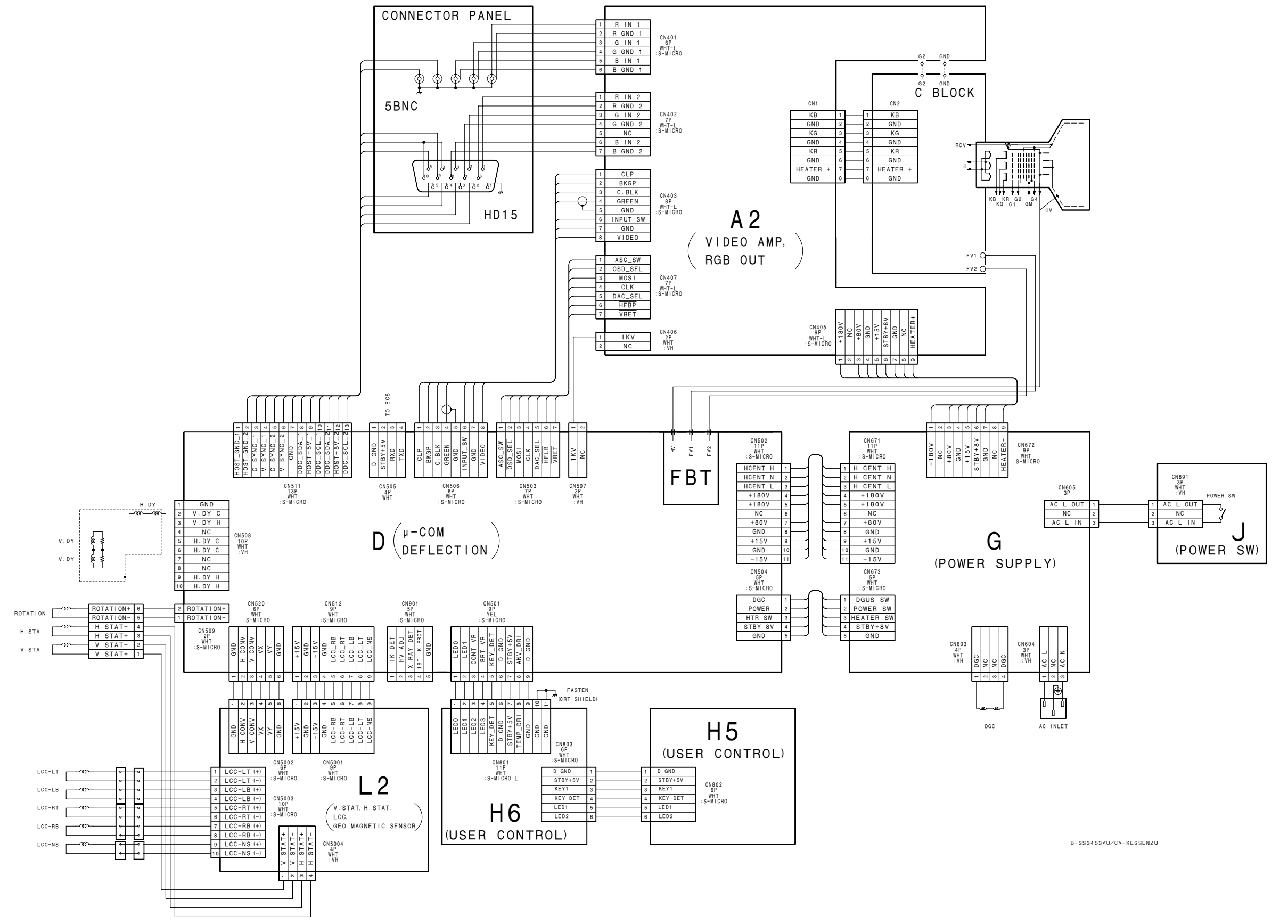
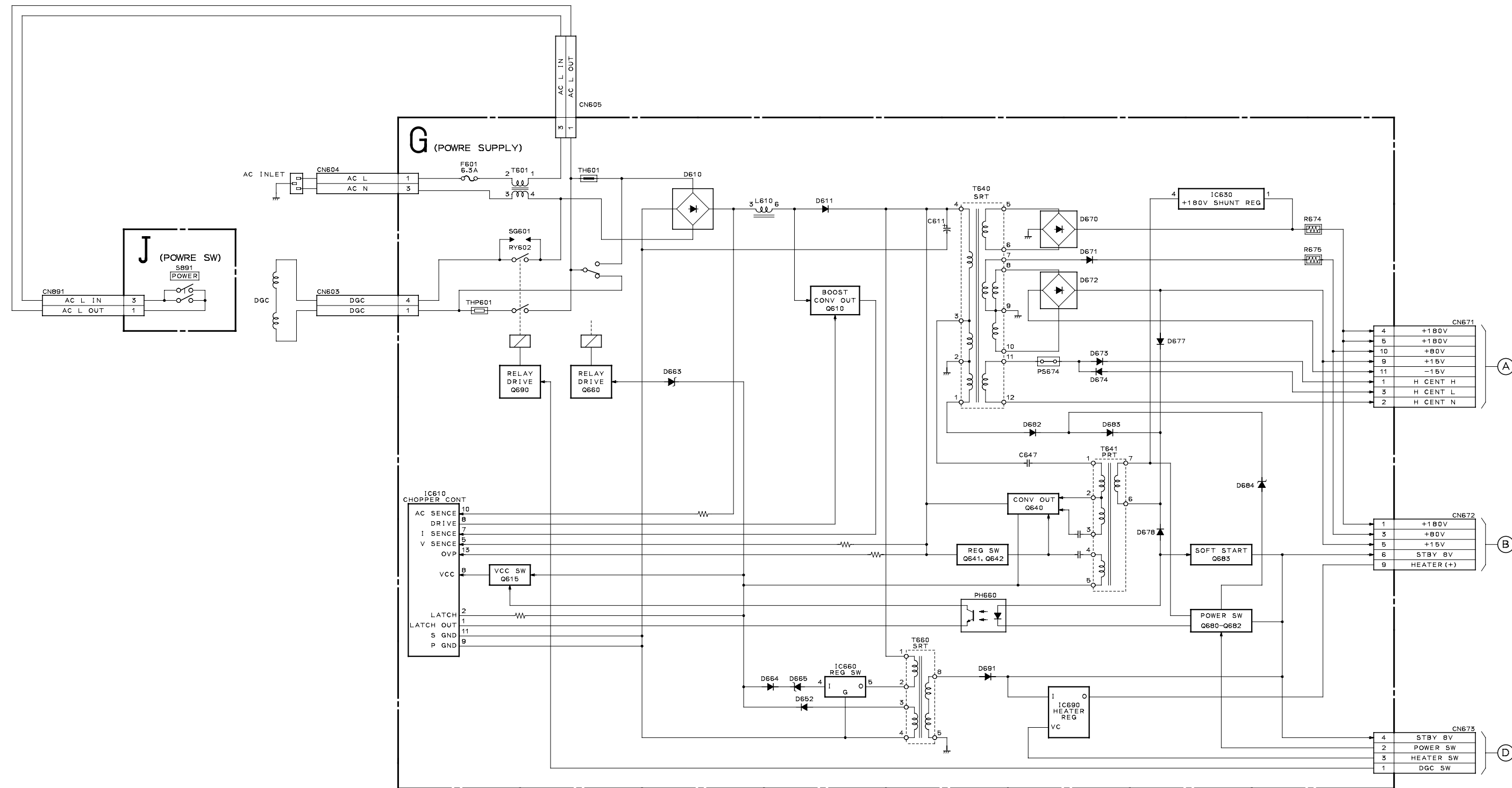


SECTION 5 DIAGRAMS

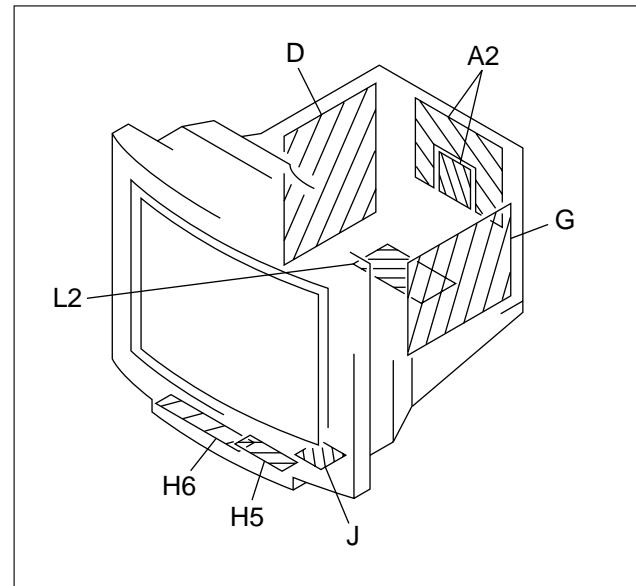
5-1. BLOCK DIAGRAMS



5-2. FRAME SCHEMATIC DIAGRAM



5-3. CIRCUIT BOARDS LOCATION



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

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

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

- Note:
- All capacitors are in μF unless otherwise noted. (pF: μF)
 - 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.
- Δ : internal component.
- \square : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- \perp : earth-ground.
- --- : earth-chassis.
- The components identified by \square in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
- Should replacement be required, replace only with the value originally used.
- When replacing components identified by \square , make the necessary adjustments indicated. (See page 3-1)
- When replacing the part in below table, be sure to perform the related adjustment.

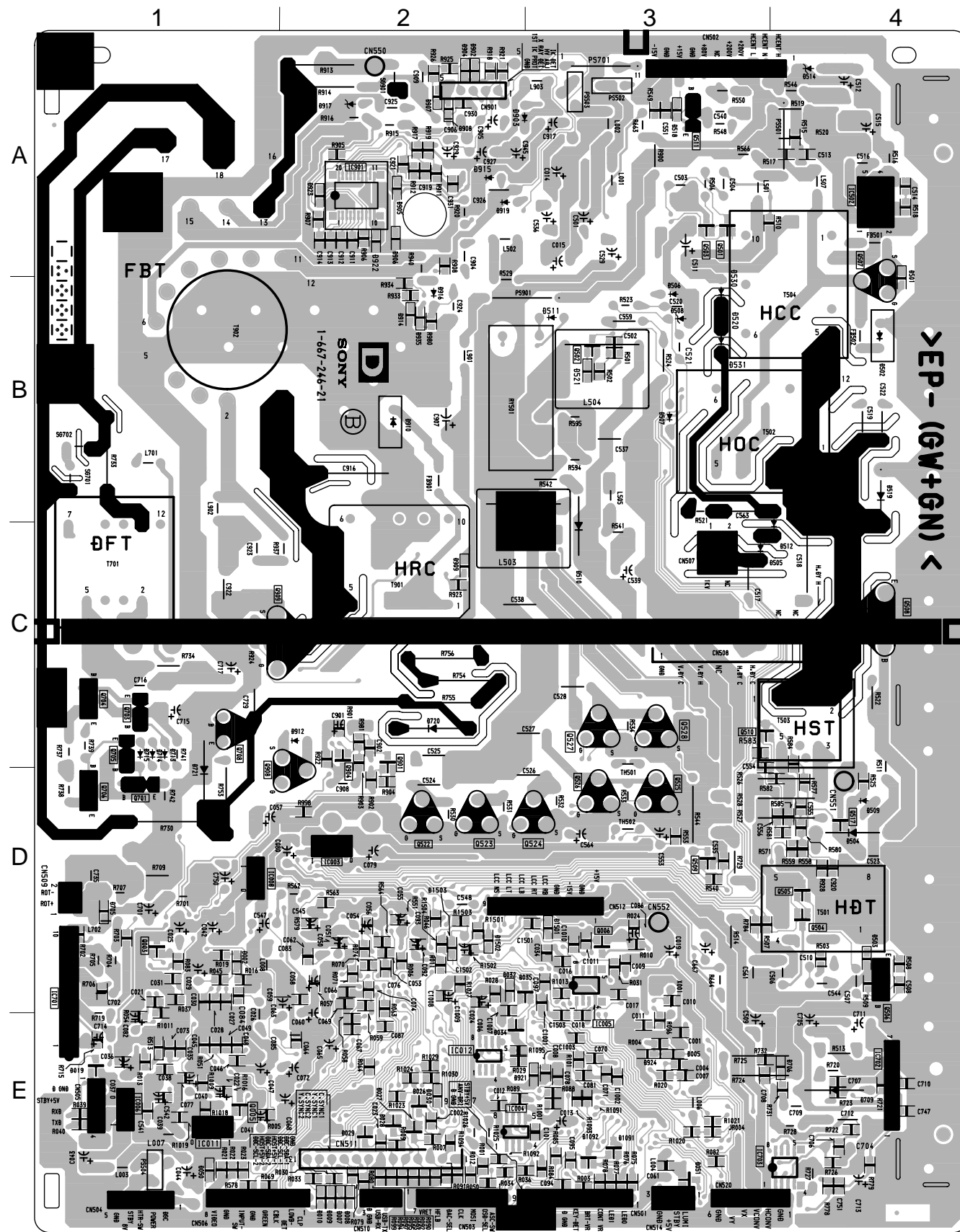
Terminal name of semiconductors in silk screen printed circuit (*):

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

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

D μ -COM. DEFLECTION

— D BOARD (Conductor Side) —



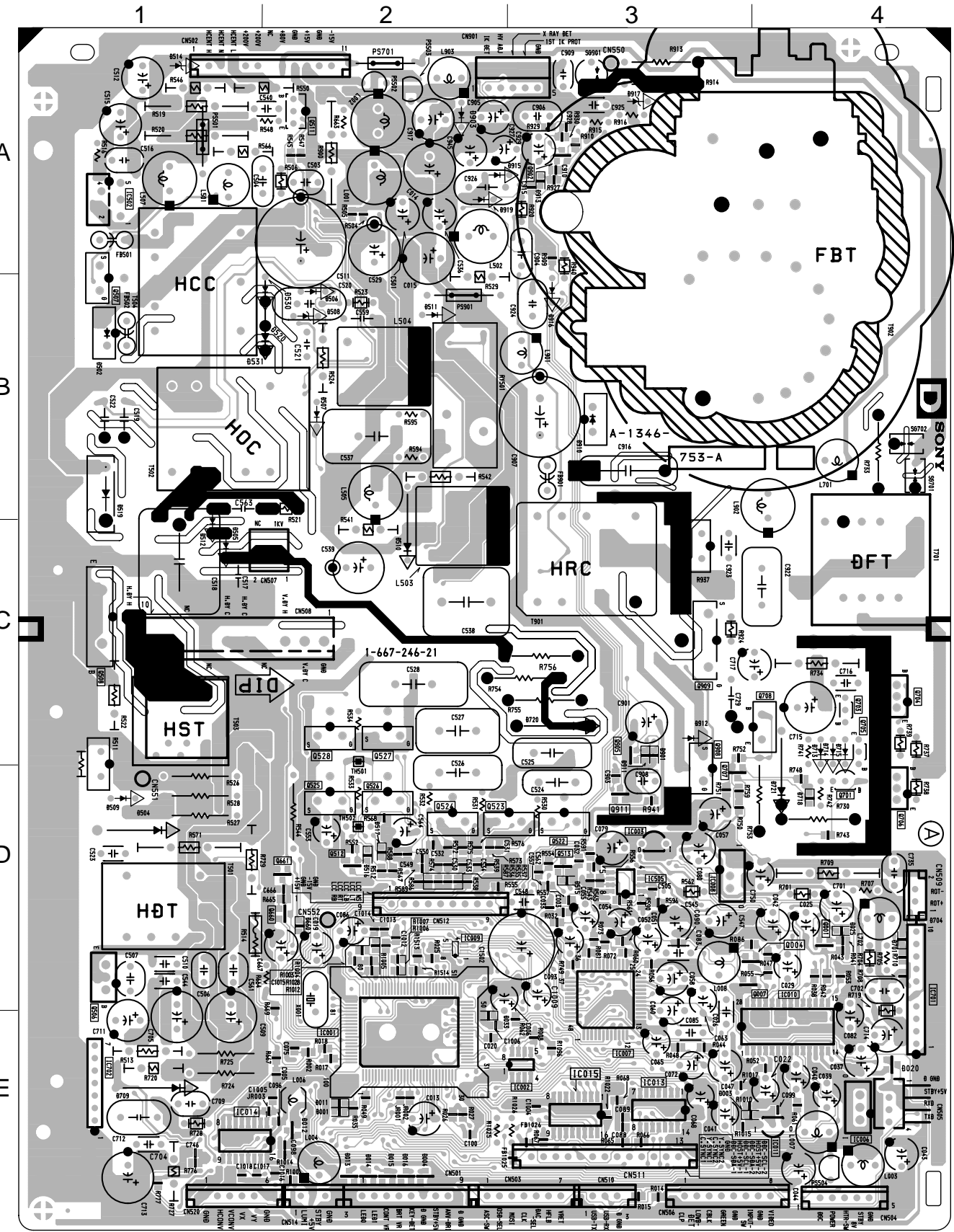
• D BOARD SEMICONDUCTOR LOCATION

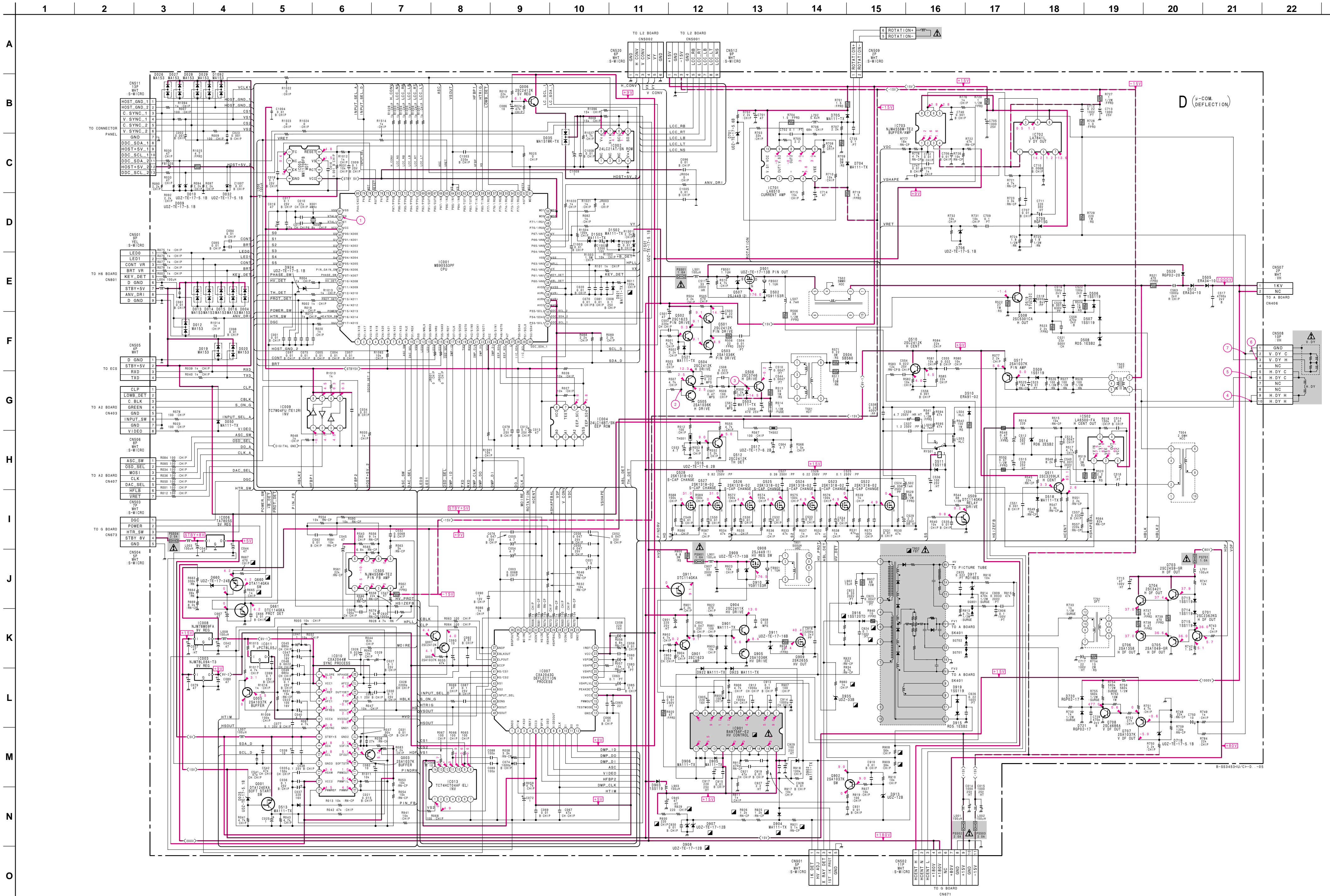
IC	(Conductor Side)	(Component Side)	IC	(Conductor Side)	(Component Side)
IC001	E-2	-	Q660	D-2	⊗
IC002	E-3	-	Q661	D-2	⊗
IC003	D-2	D-3	Q701	D-1	-
IC004	E-2	-	Q703	C-1	C-4
IC005	D-3	-	Q704	C-1	C-4
IC006	E-1	E-4	Q705	C-1	C-4
IC007	D-3	-	Q706	D-1	D-4
IC008	D-1	D-3	Q707	D-3	⊗
IC009	D-2	D-2	Q708	C-1	C-4
IC010	E-4	E-4	Q801	C-2	⊗
IC011	E-1	E-4	Q802	C-2	A-3
IC013	E-4	E-3	Q804	C-2	⊗
IS502	A-4	A-1	Q805	C-3	⊗
IS505	E-1	E-3	Q808	D-2	D-3
IC701	D-1	D-4	Q809	C-2	⊗
IC702	E-4	E-1	Q811	D-3	⊗
IC703	E-4	-			
IC901	A-2	-			
DIODE					
TRANSISTOR					
Q001	D-1	D-4	D004	E-2	⊗
Q003	-	-	D009	F-2	⊗
Q004	E-1	D-4	D010	F-2	⊗
Q005	D-3	D-3	D012	E-2	⊗
Q006	D-3	D-3	D013	E-2	⊗
Q007	D-3	D-3	D014	E-2	⊗
Q501	A-3	-	D015	E-2	⊗
Q502	B-3	-	D016	E-2	⊗
Q503	A-3	-	D019	E-1	⊗
Q504	D-4	-	D020	E-4	⊗
Q505	D-4	-	D025	D-4	⊗
Q506	D-4	D-1	D026	E-2	⊗
Q507	B-4	-	D027	F-2	⊗
Q508	C-4	C-1	D028	F-2	⊗
Q509	D-3	-	D029	F-2	⊗
Q510	C-3	-	D032	D-2	⊗
Q511	A-3	A-2	D035	D-3	⊗
Q512	D-4	D-2	D050	E-1	⊗
Q517	D-4	D-2	D501	B-4	-
Q521	D-2	D-3	D502	B-4	B-1
Q522	D-2	D-2	D503	D-4	-
Q523	D-2	D-2	D504	D-4	D-1
Q524	D-3	D-2	D505	C-3	C-1
Q525	D-3	D-2	D506	B-3	B-2
Q526	D-3	D-2	D507	B-3	B-2
Q527	C-3	C-2	D508	B-3	B-2
Q528	C-3	C-2	D509	D-4	D-1
			D510	C-3	C-2
			D511	B-3	B-2
			D512	C-4	C-1
			D513	F-1	⊗
CRYSTAL					
			X001	D-3	D-2

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

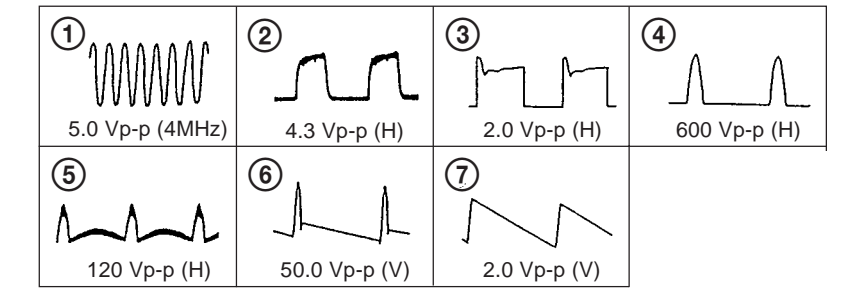
NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

— D BOARD (Component Side) —

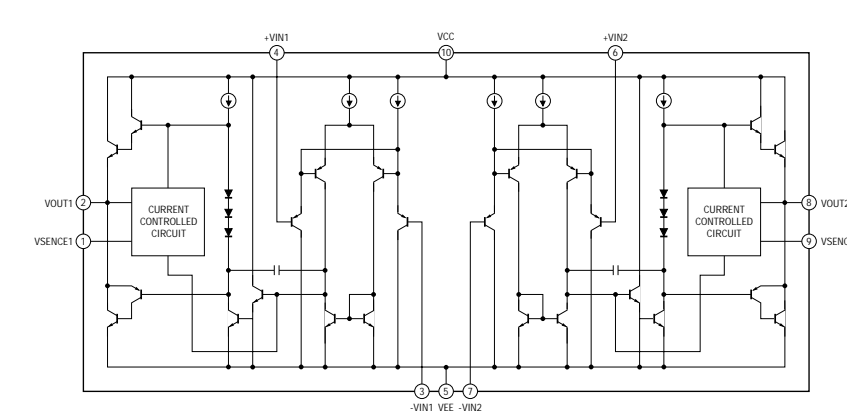




• D BOARD WAVEFORMS



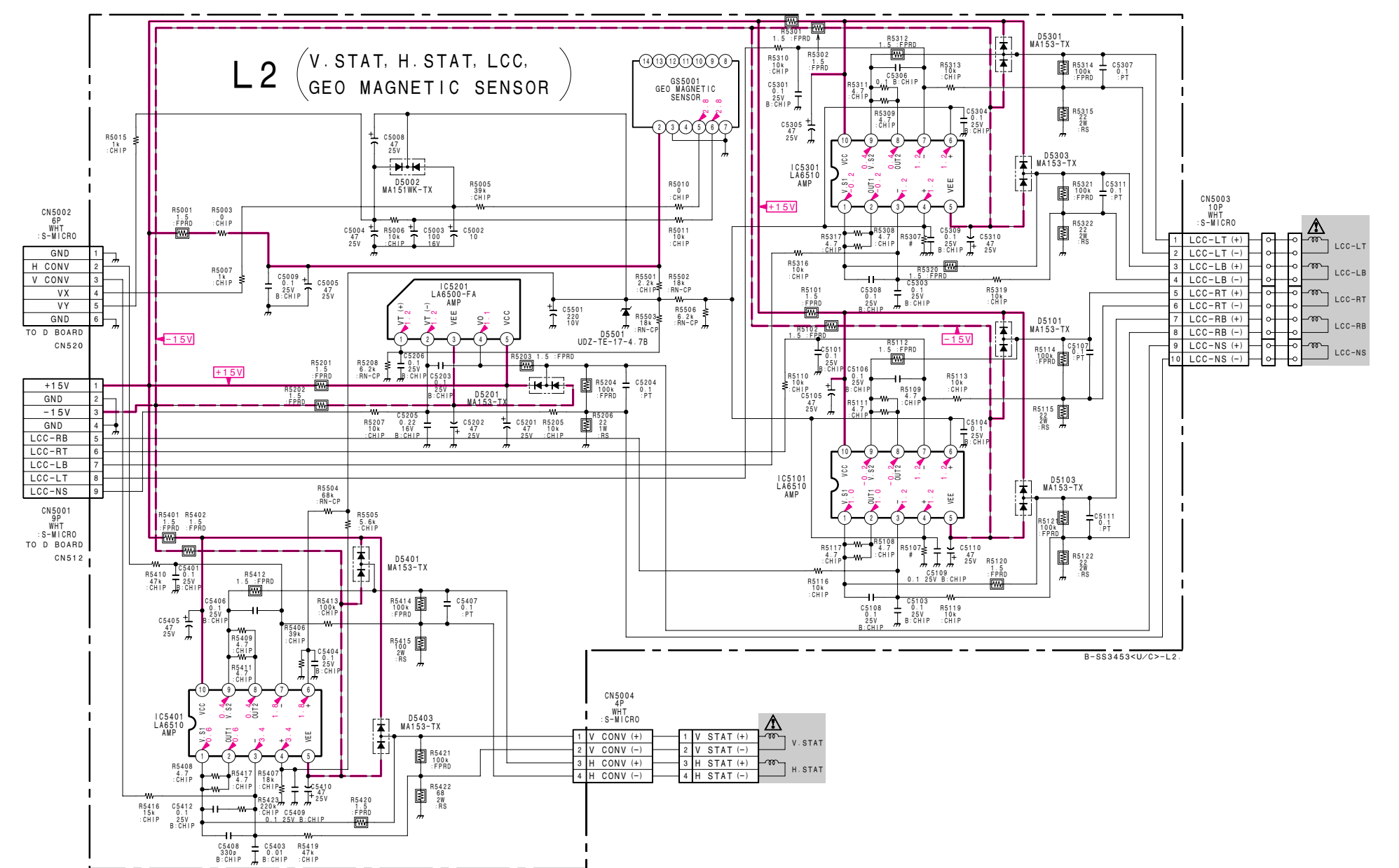
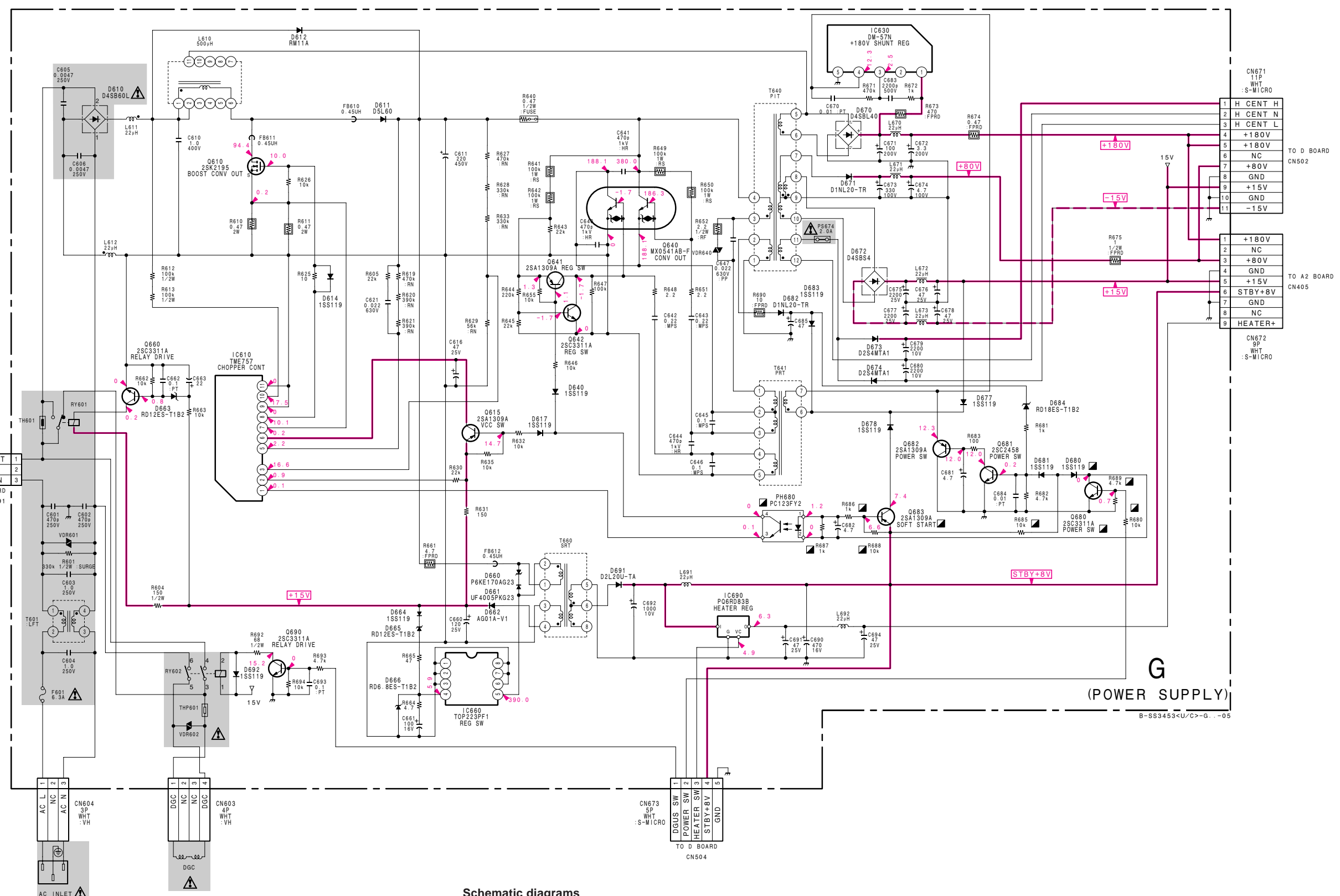
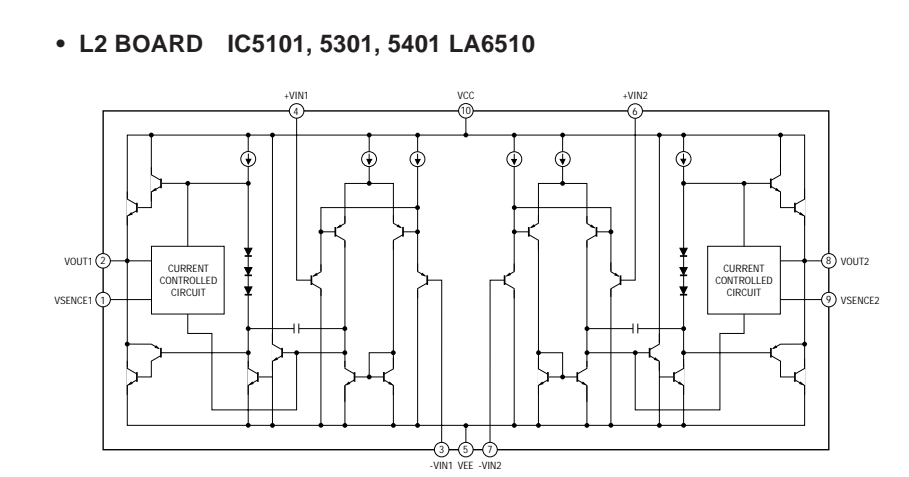
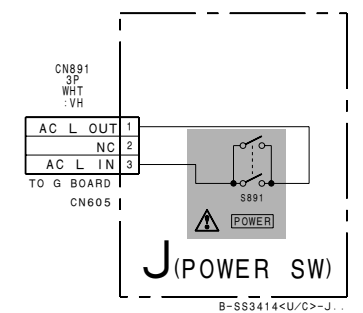
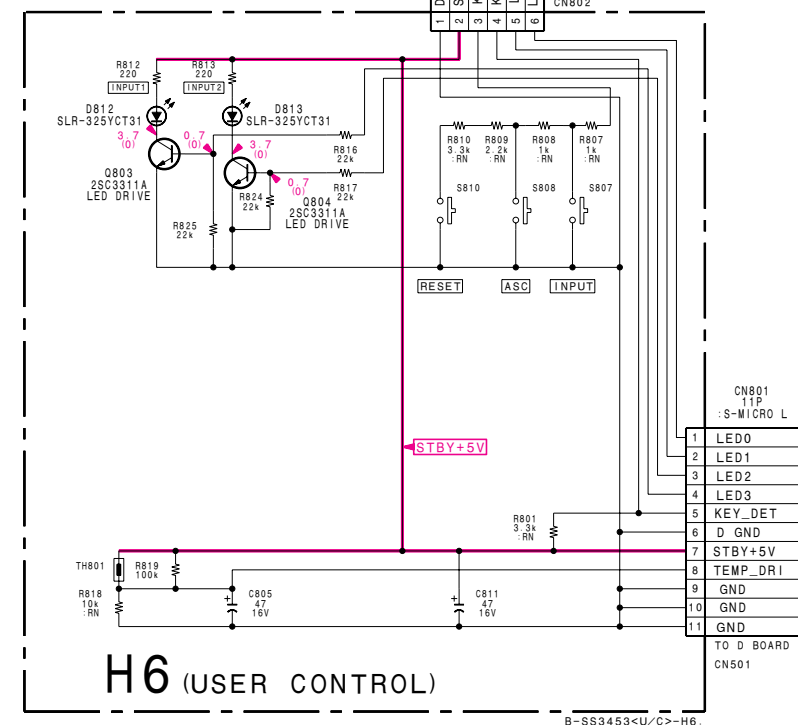
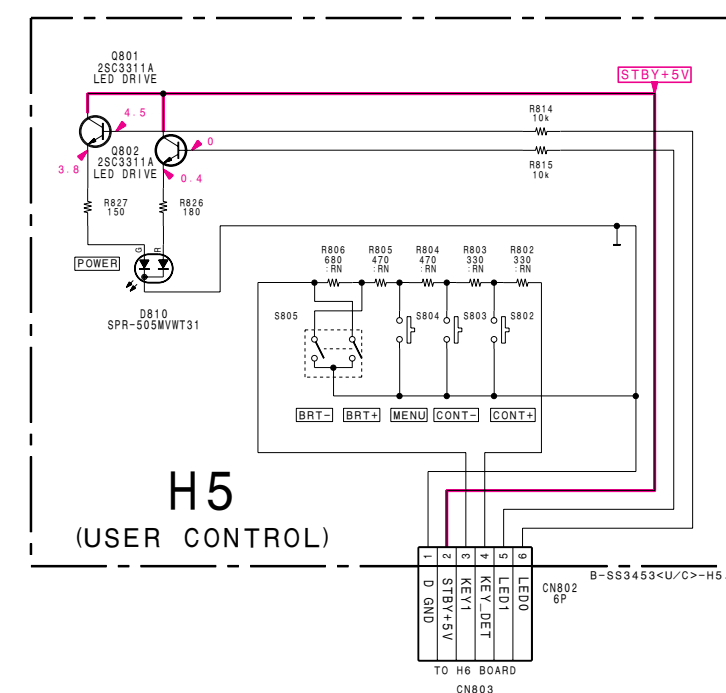
• D BOARD IC701 LA6510



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

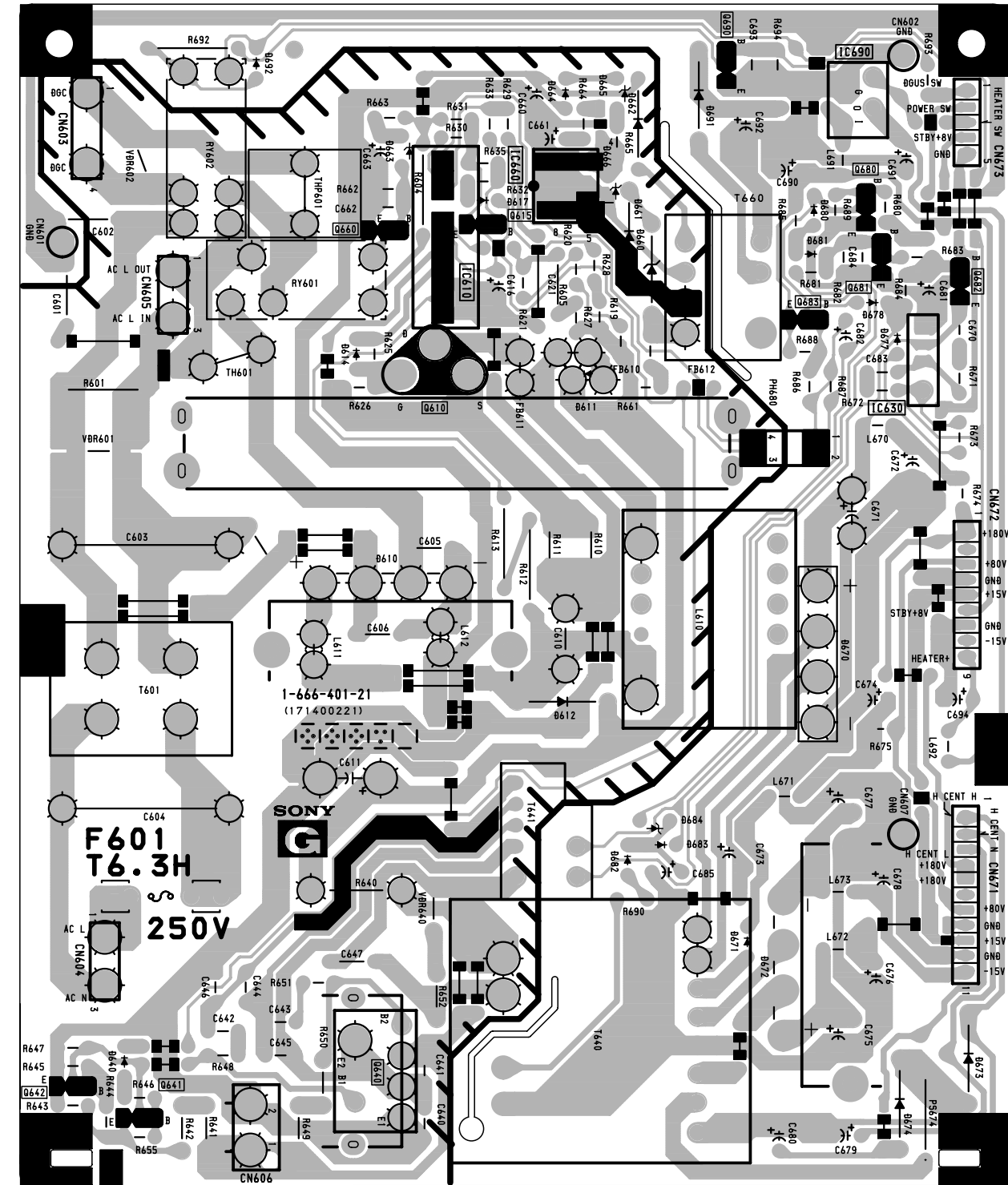
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O

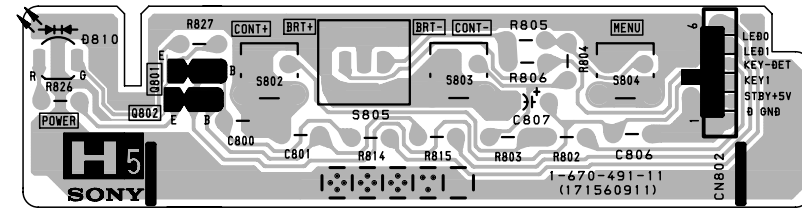


Schematic diagram
 ← board
 Schematic diagrams
 [G][H5][H6][H]
 [J][L2] boards →

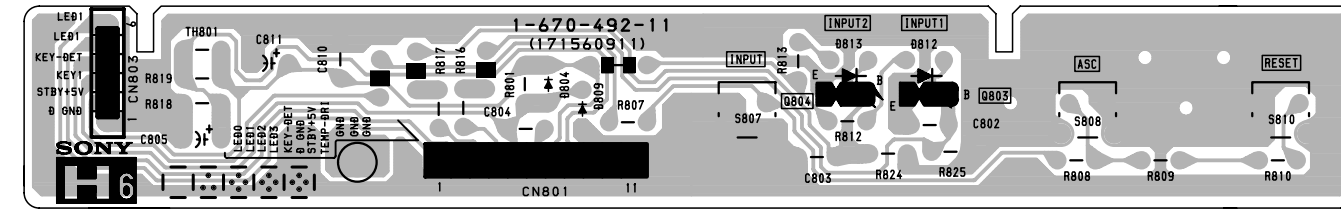
— G BOARD —



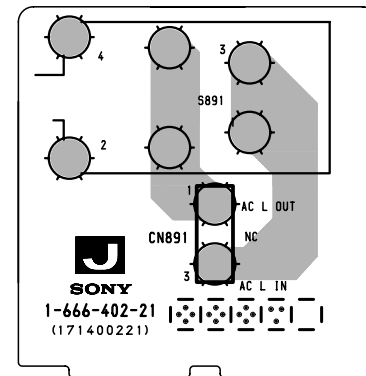
— H5 BOARD —



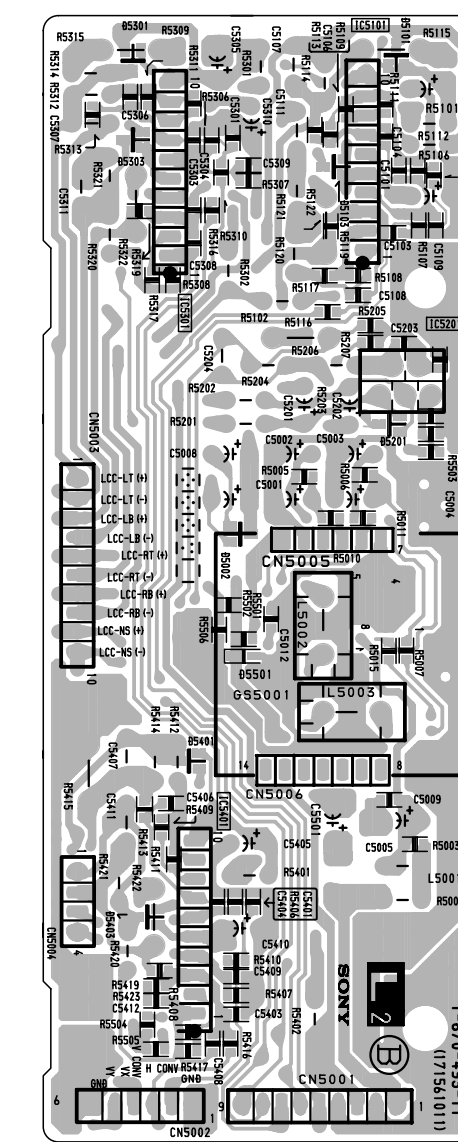
— H6 BOARD —



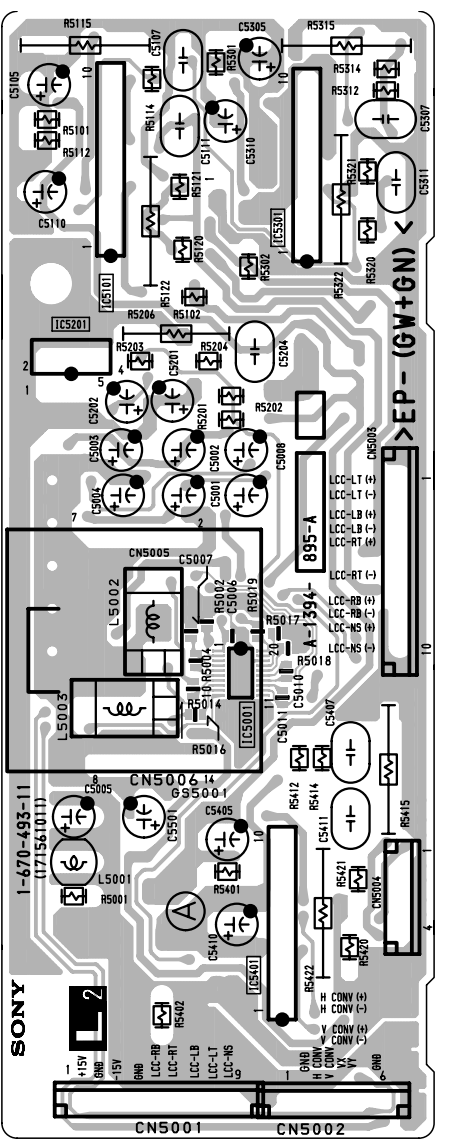
— J BOARD —



— L2 BOARD (Conductor Side) —



— L2 BOARD (Component Side) —

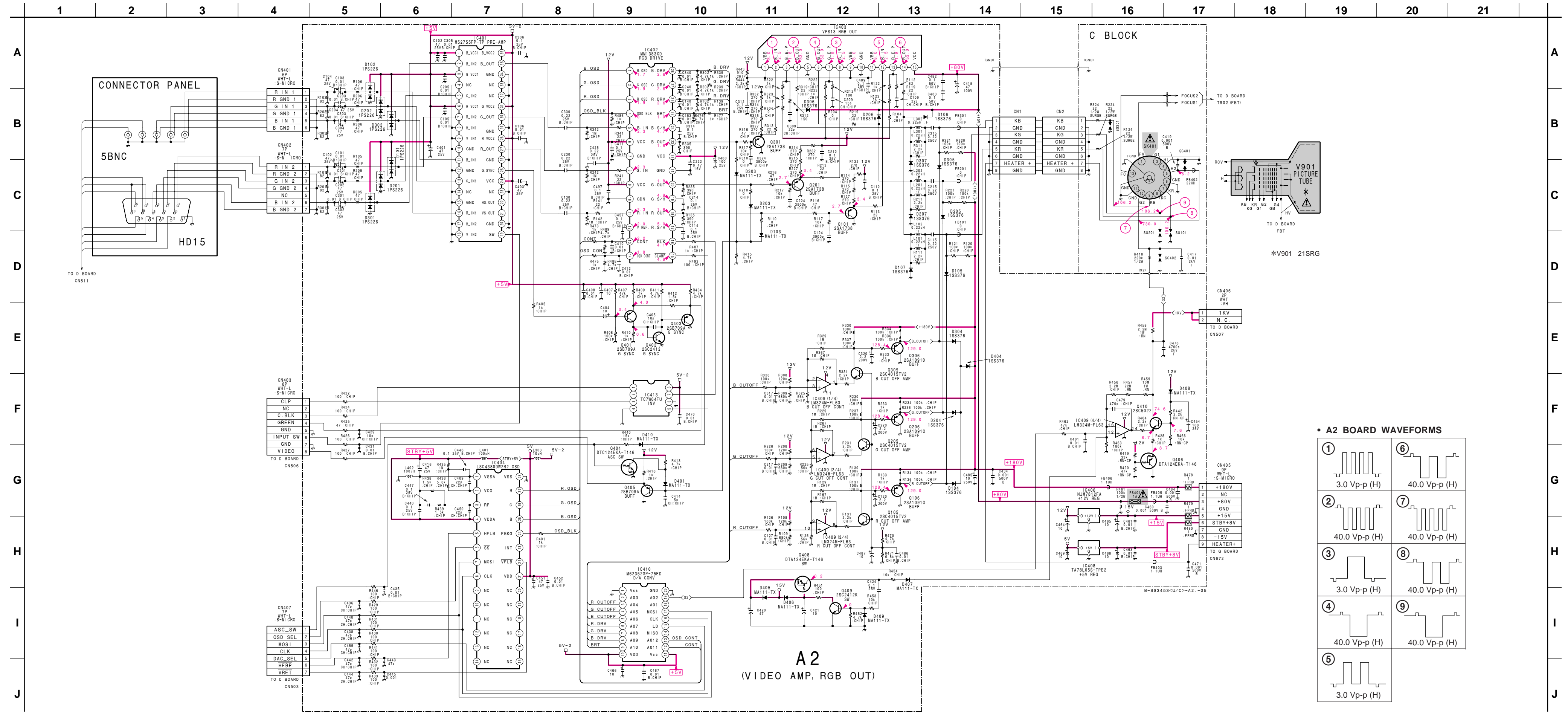


L2 BOARD
Terminal name of semiconductors
in silk screen printed circuit (*)

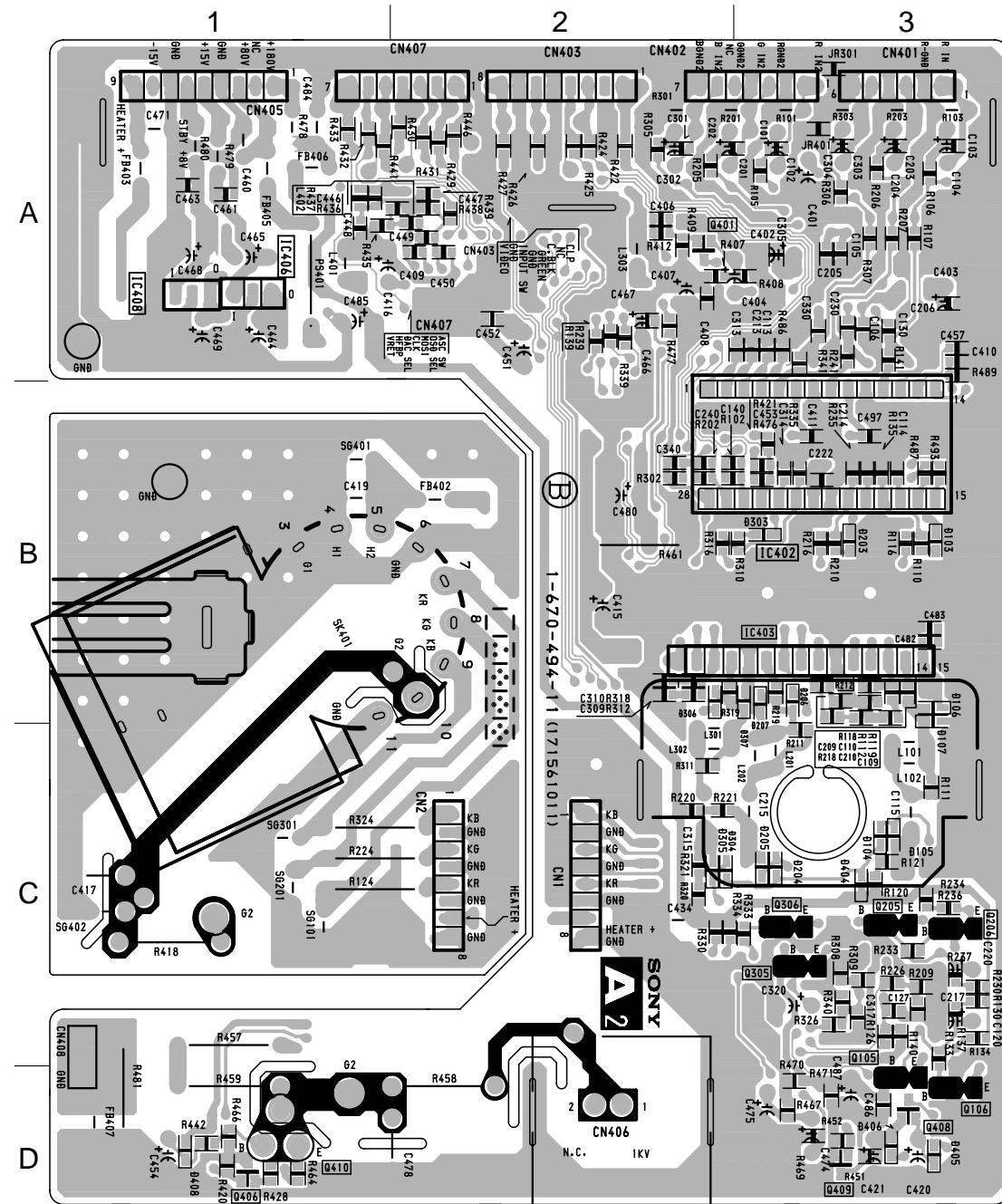
Ref.	*
D5501	③
D5101, D5103, D5201, D5301, D5303, D5401, D5403	⑥
D5002	⑧

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

(3) Schematic Diagram of A2 Board



— A2 BOARD (Conductor Side) —



• A2 BOARD
SEMICONDUCTOR
LOCATION

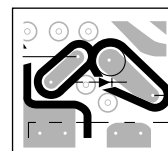
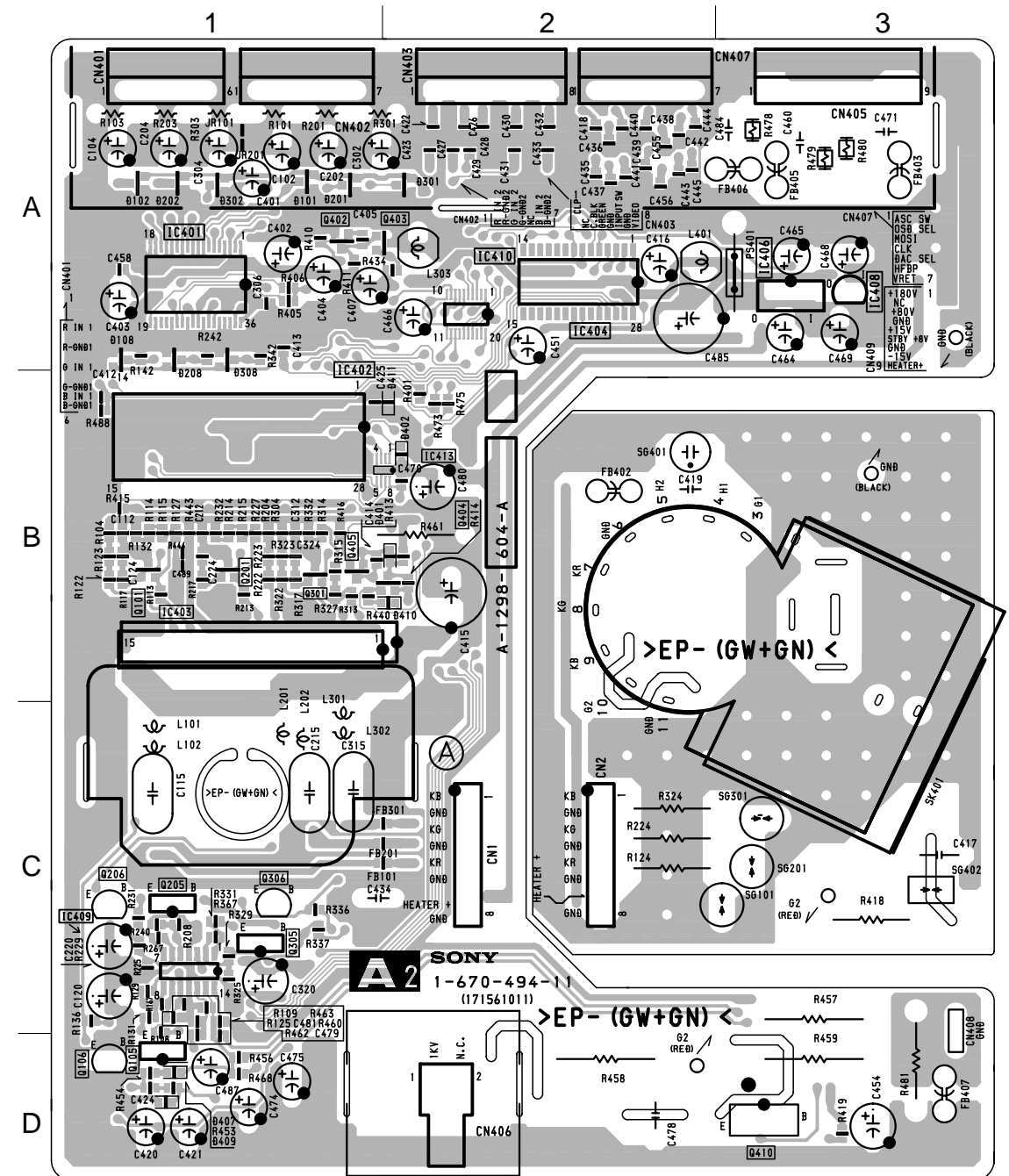
IC		(Conductor Side)	(Component Side)
IC401	A-1		
IC402	B-3		
IC403	B-3		
IC404	A-2		
IC406	A-1		
IC408	A-1		
IC409	C-1		
IC410	A-2		
IC413	B-1		

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

DIODE		(Conductor Side)	(Component Side)*
D101	A-1		⑦
D102	A-1		⑦
D103	B-3		③
D104	C-3		③
D106	B-3		③
D107	B-3		③
D201	A-1		⑦
D202	A-1		⑦
D203	B-3		③
D204	C-3		③
D205	C-3		③
D206	B-3		③
D207	B-3		③
D301	A-2		⑦
D302	A-1		⑦
D303	B-3		③
D304	C-2		③
D305	C-2		③
D306	B-2		③
D307	B-3		③
D401	B-1		③
D404	C-3		③
D405	D-3		③
D406	D-3		③
D407	D-1		③
D408	D-1		③
D409	D-1		③
D410	B-1		③

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

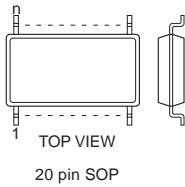
— A2 BOARD (Component Side) —



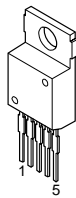
NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

5-5. SEMICONDUCTORS

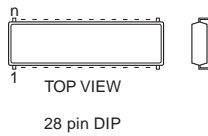
BA9756FS-E2
M62352GP-75E
M62352GP-75ED



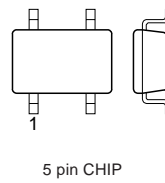
LA6500-FA



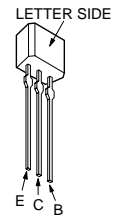
MM1383XD



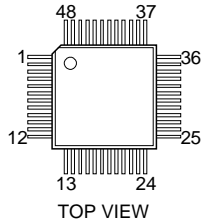
TC7W04FU
TC7W04FU (TE12R)



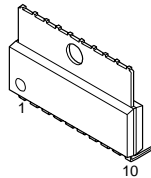
2SA1175-HFE
2SA1309A-QRSTA
2SC2784
2SC2785-HFE
2SC3311A-QRSTA



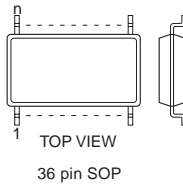
CXA2043Q



LA6510

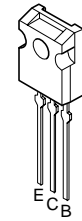


M52755FP-TP

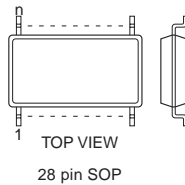


DTA114GKAT146
DTA124EKA-T146
DTC114GKA
DTC114GKAT146
DTC124EK
DTC124EKA-T146
2SA1036K-Q
2SA1036K-T-146-Q
2SA1037K-T-146-QR
2SA1462-Y33
2SA1738-TX
2SB709A-QRS-TX
2SC1623-L5L6
2SC2411K-CQ
2SC2411K-T-146-CQ
2SC2412K-T-146-QR

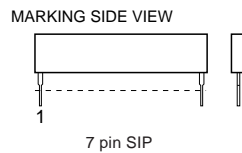
2SA1358-Y
2SC3421-Y



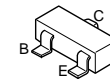
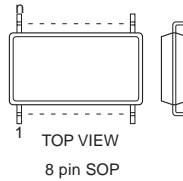
CXA2044M-T6
LSC4380DW2R2
LSC4380DW2AR2



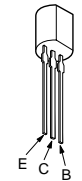
LA7841L



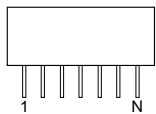
NJM4558M
 μ PC4558G2
24LC16BT/SN
24LC21AT/SN



2SC2362KG-AA

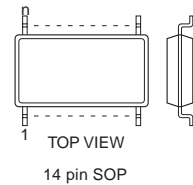


DM57N



MARKING SIDE VIEW
• pin N = 5
• Mt (one side, both side)

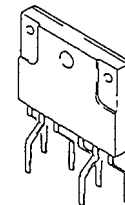
LM324M
LM324M-FL63
TC74HCT04AF



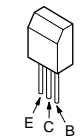
NJM78L05A
NJM78L09A-T3
TA78L05S
TA78L09S
 μ PC78L05J-TP



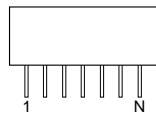
MX0541AB-F



2SC3209LK
2SC3209LK-TP

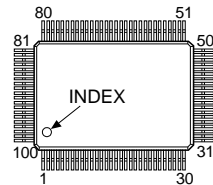


TME757

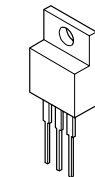


• pin N = 11
• Mt (one side, both side)

MB90553PF-G-124-BND



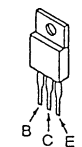
NJM78M09FA
NJM7812FA
TA7805S



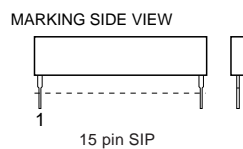
2SA1049-GR
2SC2458-YGR
2SC2459-GR



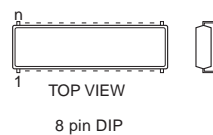
2SC3746
2SC4686A (LBSONY)
2SJ449
2SJ449 (1)
2SJ449 (2)



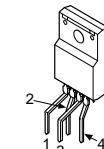
VPS13



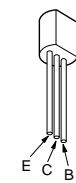
MM1170BFB
TOP223PFI



PQ6RD83B



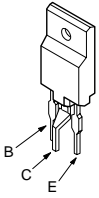
2SA1091-O
2SC2362K-G



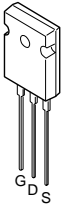
2SC4015TV2



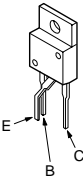
2SC5301-CA



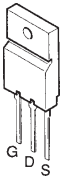
2SK1318-02
2SK2098-01MR-F119



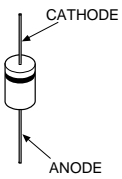
2SK2195F04



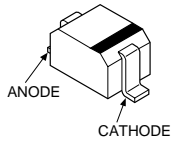
2SK2655-01R-F183R
2SK2675



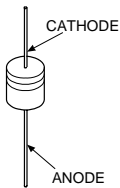
ERA91-02
S2LA20F



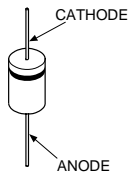
DTZ-TT11-16B
DTZ13B
DTZ24B
DTZ33B
DTZ4.7C
DTZ5.1B
MA111-TX
RD12SB2
RD5.6SB
UDZ-TE-17-12B
UDZ-TE-17-13B
UDZ-TE-17-16B
UDZ-TE-17-24B
UDZ-TE-17-33B
UDZ-TE-17-4.7B
UDZ-TE-17-5.1B
UDZ-TE-17-5.6B
UDZ-TE-17-6.2B



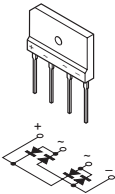
AG01A-V1
D1NL20-TR
GMA01-BT
RD12ES-B2
RD16ES-B2
RD16ES-B3
RD18ES-B2
RD5.1ES-B2
RD6.2ESB2
RD6.8ESB2
1SS119-25TD
1SS119-25
1SS120TD



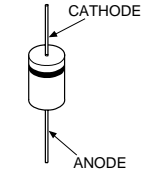
D2S4MF
D2S4MTA1



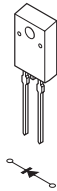
D4SBS4
D4SBS4-F
D4SBL40
D4SB60L



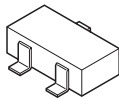
D2L20U
D2L20U-TA
EGP20G
ERA34-10TP1
P6KE170AG23
RGP02-17EL-6433
RGP02-17PKG23
RGP02-20EG23
RGP02-20EL-6394
RGP15GPKG23
UF4005PKG23



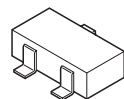
D5L60



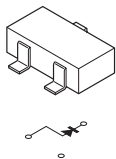
MA151WK-TX
1SS184



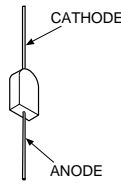
MA153-TX
1SS226



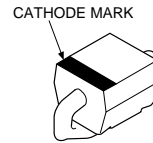
RD6.2M-B1



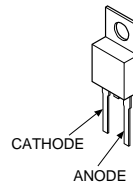
RM11A
RM11C



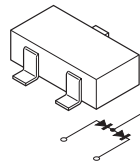
SB560



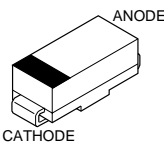
FMQ-G5FMS
YG911S3R
5TUZ52C



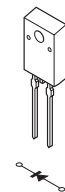
1PS226-115



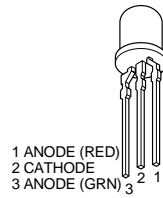
1SS376TE-17



SLR-325YCT31



SPR-505MVWT31



SECTION 6 EXPLODED VIEWS

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

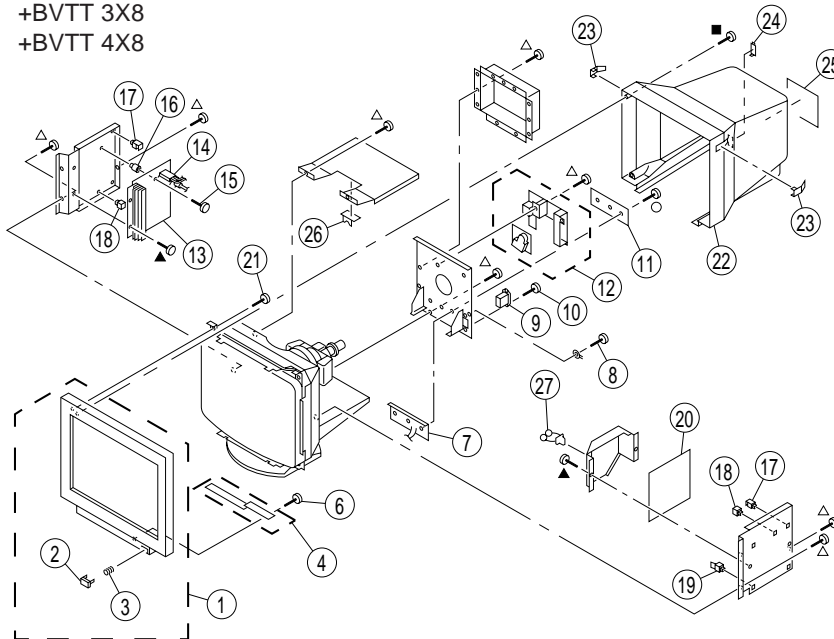
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

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

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

6-1. CHASSIS

- \blacktriangle 7-685-647-79 +BVTP 3X10
- \blacksquare 7-685-663-71 +BVTP 4X16
- \circ 7-685-872-09 +BVTT 3X8
- \triangle 7-685-881-09 +BVTT 4X8



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
1	X-4035-847-3	BEZEL ASSY [U/C/AEP for Japan-made set]	2,3	20	* 8-933-333-00	G BOARD, COMPLETE	
1	X-4036-008-2	BEZEL ASSY [U/C for USA-made set]	2,3	21	4-365-808-01	SCREW (5), TAPPING [except UK/AEP for UK-made set]	
1	X-4200-450-1	BEZEL ASSY [UK/AEP for UK-made set]	2,3	21	4-203-648-01	SCREW (5), SELF TAPPING [UK/AEP for UK-made set]	
2	4-065-356-02	BUTTON, POWER [U/C/AEP for Japan-made set]		22	4-061-604-01	CABINET [U/C/AEP for Japan-made set]	
2	4-066-697-01	BUTTON, POWER [U/C for USA-made set]		22	4-064-123-01	CABINET [U/C for USA-made set]	
2	4-066-700-11	BUTTON, POWER [UK/AEP for UK-made set]		22	4-204-317-31	CABINET [UK/AEP for UK-made set]	
3	4-061-932-01	SPRING, COMPRESSION [except U/C for USA-made set]		23	4-061-605-01	COVER, SCREW [U/C/AEP for Japan-made set]	
3	4-061-932-11	SPRING, COMPRESSION [U/C for USA-made set]		23	4-064-132-01	COVER, SCREW [U/C for USA-made set]	
4	* 8-933-332-00	H5 AND H6 BOARDS, COMPLETE		23	4-204-327-31	COVER, SCREW [UK/AEP for UK-made set]	
6	4-029-432-01	SCREW (3X12), (+) BVVWHTP		24	4-060-358-21	COVER, ECS [U/C/AEP for Japan-made set]	
7	1-694-461-11	TERMINAL BOARD ASSY, I/O		24	4-061-155-11	COVER, ECS [U/C for USA-made set]	
8	4-389-025-01	SCREW (M4) (EXT TOOTH WASHER)		24	4-204-328-31	COVER, ECS [UK/AEP for UK-made set]	
9	\triangle 1-251-382-12	INLET, AC 3P (WITH NOISE FILTER)		25	* 4-065-365-02	LABEL, INFORMATION [U/C for Japan-made set]	
10	4-052-345-01	SCREW, (3X8) (+K), TAPPING		25	* 4-065-365-11	LABEL, INFORMATION [AEP for Japan-made set]	
11	4-060-368-12	SHEET, CONNECTOR		25	* 4-066-762-01	LABEL, INFORMATION [U/C for USA-made set]	
12	* 8-933-334-00	A2 BOARD, COMPLETE		25	* 4-066-763-01	LABEL, INFORMATION [UK/AEP for UK-made set]	
13	* 8-933-330-00	D BOARD, COMPLETE	14	25	4-070-100-01	LABEL, INFORMATION [520GST9 AEP for Japan-made set]	
14	\triangle X-4035-170-1	TRANSFORMER ASSY, FLYBACK (NX-4142/J1D4)		25	* 4-204-843-01	LABEL, INFORMATION [520GST9 AEP for UK-made set]	
15	4-062-115-01	SCREW +P 3.5X20 TYPE2		26	* 4-063-711-01	SUPPORT, HV CABLE	
16	* 4-060-359-01	HOLDER, PRINTED CIRCUIT BOARD		27	2-132-434-01	CLIP, WIRE	
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					

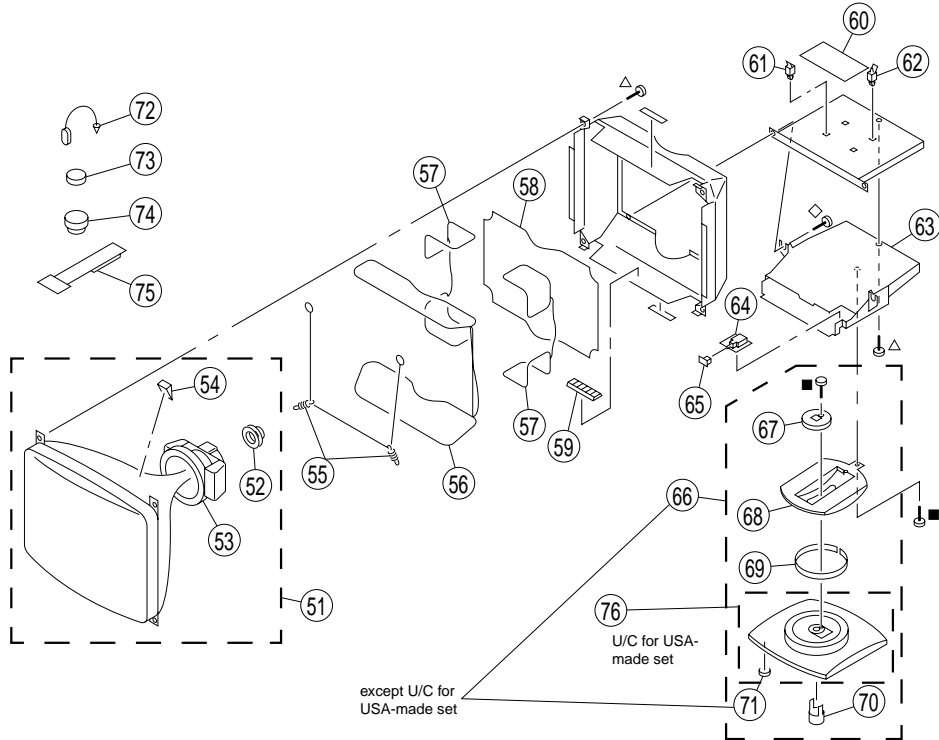
CPD-520GS/520GST/520GST9

6-2. PICTURE TUBE

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

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

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

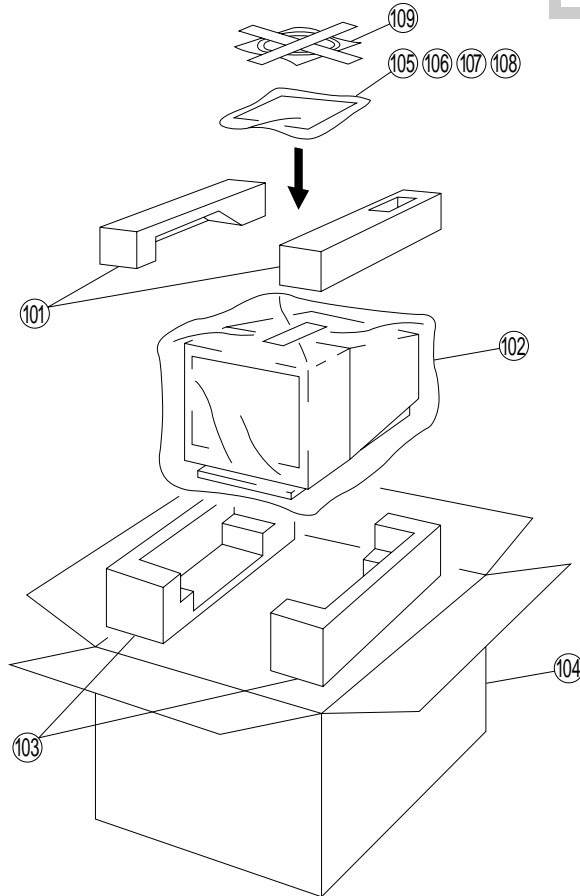


REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
51	△ 8-738-806-61	ITC ASSY (21SRG-R5)	52-54	66	X-4035-224-1	STAND ASSY	
52	△ 1-452-932-21	NECK ASSEMBLY (NA-2916)		66	X-4036-734-1	STAND ASSY	[U/C/AEP for Japan-made set] 67-71
53	△ 1-451-479-11	DEFRECTION YOKE (Y21SRL2-T)		66	X-4200-492-1	STAND ASSY	[520GST9 AEP for Japan-made set] 67-71
53	△ 8-451-493-41	DEFRECTION YOKE (Y21SRL-M4)		66	X-4200-492-1	STAND ASSY	[UK/AEP for UK-made set] 67-71
53	△ 8-451-493-71	DEFRECTION YOKE (Y21SRL-X)		67	4-061-396-01	STOPPER (A)	[U/C/AEP for Japan-made set]
				67	4-064-133-01	STOPPER (A)	[U/C for USA-made set]
54	4-050-492-01	SPACER, DY		67	4-204-326-01	STOPPER (A)	[UK/AEP for UK-made set]
54	4-040-897-01	SPACER, DY	[except U/C for USA-made set]	68	4-061-938-01	SLIDER	[U/C/AEP for Japan-made set]
55	* 4-047-316-01	SPRING, EXTENSION		68	4-064-125-01	SLIDER	[U/C for USA-made set]
55	* 4-061-573-01	SPRING, TENSION	[except U/C for USA-made set]	68	4-070-626-01	SLIDER	[520GST9 AEP for Japan-made set]
55			[U/C for USA-made set]	68	* 4-204-319-31	SLIDER	[UK/AEP for UK-made set]
56	△ 1-416-437-31	COIL, DEMAGNETIC		69	4-063-397-01	RING, TILT SWIVEL	
57	△ 1-416-140-12	COIL, LANDING CORRECTION		69	4-065-407-01	RING, TILT SWIVEL	[U/C/AEP for Japan-made set]
58	△ 1-416-438-31	COIL, LANDING CORRECTION		69			[U/C for USA-made set]
59	4-062-670-01	SPACER, PICTURE TUBE		69	* 4-204-376-01	RING, TILT SWIVEL	[UK/AEP for UK-made set]
60	* 8-933-336-00	L2 BOARD, COMPLETE		70	4-041-621-01	STOPPER (B)	[except U/C for USA-made set]
61	* 4-321-929-00	HOLDER, PRINTED CIRCUIT BOARD		70	4-041-621-21	STOPPER (B)	[U/C for USA-made set]
62	* 3-703-141-00	HOLDER, PRINTED CIRCUIT BOARD		71	4-047-474-01	FOOT, RUBBER	[except U/C for USA-made set]
63	4-061-603-01	COVER, BOTTOM		72	4-308-870-00	CLIP, LEAD WIRE	
63	4-064-124-01	COVER, BOTTOM	[U/C/AEP for Japan-made set]	73	1-452-032-00	MAGNET, DISK; 10mmφ	
63	4-204-318-31	COVER, BOTTOM	[U/C for USA-made set]	74	1-452-094-00	MAGNET, ROTATABLE DISK; 15mmφ	
64	* 8-933-335-00	J BOARD, COMPLETE		75	4-051-736-21	PIECE A (90), CONV. CORRECT	
65	* 4-394-972-21	CAP, POWER		76	X-4035-515-1	STAND ASSY	[U/C for USA-made set]

6-3. PACKING MATERIALS

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

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



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
101	* 4-061-809-11	CUSHION (UPPER) (ASSY) [U/C/AEP for Japan-made set]		104	* 4-066-564-01	INDIVIDUAL CARTON [AEP for Japan-made set]	
101	* 4-064-179-01	CUSHION (UPPER) (ASSY) [U/C for USA-made set]		105	1-759-641-14	DISK, INFORMATION (WINDOWS) [except U/C for USA-made set]	
101	* 4-065-348-01	CUSHION (UPPER) (ASSY) [UK/AEP for UK-made set]		105	1-759-641-21	DISK, INFORMATION (WINDOWS) [U/C for USA-made set]	
102	* 4-041-927-31	BAG, POLYETHYLENE [U/C/AEP for Japan-made set]		106	Δ 1-765-718-11	CORD SET, POWER [U/C]	
102	* 4-047-293-01	BAG, POLYETHYLENE [U/C for USA-made set]		106	Δ 1-765-719-11	CORD SET, POWER [AEP]	
102	* 4-060-490-11	BAG, POLYETHYLENE [UK/AEP for UK-made set]		106	Δ 1-775-706-11	CORD SET, POWER [UK]	
103	* 4-061-810-11	CUSHION (LOWER) (ASSY) [U/C/AEP for Japan-made set]		107	1-785-429-11	ADAPTOR, CONVERSION (for Mac)	
103	* 4-064-180-01	CUSHION (LOWER) (ASSY) [U/C for USA-made set]		108	3-864-132-12	MANUAL, INSTRUCTION (E, F, S, C2) [U/C for Japan-made set]	
103	* 4-065-349-01	CUSHION (LOWER) (ASSY) [UK/AEP for UK-made set]		108	3-864-132-21	MANUAL, INSTRUCTION (E, F, D, ES, I) [AEP for Japan-made set]	
104	* 4-067-048-01	INDIVIDUAL CARTON [U/C for USA-made set]		108	3-864-132-31	MANUAL, INSTRUCTION (E, F, S, C2) [U/C for USA-made set]	
104	* 4-067-049-01	INDIVIDUAL CARTON [UK/AEP for UK-made set]		108	3-864-132-41	MANUAL, INSTRUCTION (E, F, D, ES, I) [UK/AEP for UK-made set]	
104	* 4-070-187-01	INDIVIDUAL CARTON [520GST9 AEP for Japan-made set]		108	3-864-132-51	MANUAL, INSTRUCTION (R, PO, SL, HU, C2) [520GST AEP for UK-made set]	
104	* 4-204-845-01	INDIVIDUAL CARTON [520GST9 AEP for UK-made set]		108	3-864-132-61	MANUAL, INSTRUCTION (E, F, G, S, I) [520GST9 AEP for Japan-made set]	
104	* 4-066-065-01	INDIVIDUAL CARTON [U/C for Japan-made set]		108	3-864-132-71	MANUAL, INSTRUCTION (E, F, G, S, I) [520GST9 AEP for UK-made set]	
				108	3-864-132-81	MANUAL, INSTRUCTION (R, PO, SL, HU, C2) [520GST9 AEP for UK-made set]	
				109	1-790-901-11	CABLE ASSY (15P DSUBX2 CONNECTET)	

MEMO

A series of horizontal dotted lines for writing.

SECTION 7 ELECTRICAL PARTS LIST

A₂

NOTE:

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

Les composants identifiés par un tramé et une marque \triangle 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.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

RESISTORS

- All resistors are in ohms
- F : nonflammable

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
	* 8-933-334-00A2	BOARD, COMPLETE					

	7-682-950-01	SCREW +PSW 3X12 (IC403)					
		<CAPACITOR>					
C101	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V	C306	1-164-004-11	CERAMIC CHIP 0.1 μ F	10% 25V
C102	1-104-664-11	ELECT 47 μ F	20% 25V	C309	1-163-235-11	CERAMIC CHIP 22pF	5% 50V
C103	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V	C312	1-164-004-11	CERAMIC CHIP 0.1 μ F	10% 25V
C104	1-104-664-11	ELECT 47 μ F	20% 25V	C314	1-164-004-11	CERAMIC CHIP 0.1 μ F	10% 25V
C105	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V	C315	1-104-514-11	FILM 0.22 μ F	10% 250V
C106	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V	C317	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V
C109	1-163-235-11	CERAMIC CHIP 22pF	5% 50V	C320	1-107-949-11	ELECT 2.2 μ F	20% 200V
C112	1-164-004-11	CERAMIC CHIP 0.1 μ F	10% 25V	C324	1-163-016-00	CERAMIC CHIP 0.0039 μ F	10% 50V
C114	1-164-004-11	CERAMIC CHIP 0.1 μ F	10% 25V	C330	1-115-340-11	CERAMIC CHIP 0.22 μ F	10% 25V
C115	1-104-514-11	FILM 0.22 μ F	10% 250V	C340	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V
C120	1-107-949-11	ELECT 2.2 μ F	20% 200V	C401	1-104-664-11	ELECT 47 μ F	20% 25V
C124	1-163-016-00	CERAMIC CHIP 0.0039 μ F	10% 50V	C402	1-104-664-11	ELECT 47 μ F	20% 25V
C127	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V	C403	1-104-664-11	ELECT 47 μ F	20% 25V
C130	1-115-340-11	CERAMIC CHIP 0.22 μ F	10% 25V	C404	1-126-964-11	ELECT 10 μ F	20% 50V
C140	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V	C405	1-163-227-11	CERAMIC CHIP 10pF	0.5pF 50V
C201	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V	C407	1-126-964-11	ELECT 10 μ F	20% 50V
C202	1-104-664-11	ELECT 47 μ F	20% 25V	C408	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V
C203	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V	C409	1-163-235-11	CERAMIC CHIP 22pF	5% 50V
C204	1-104-664-11	ELECT 47 μ F	20% 25V	C410	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V
C205	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V	C411	1-164-004-11	CERAMIC CHIP 0.1 μ F	10% 25V
C209	1-163-231-11	CERAMIC CHIP 15pF	5% 50V	C412	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V
C212	1-164-004-11	CERAMIC CHIP 0.1 μ F	10% 25V	C414	1-163-222-11	CERAMIC CHIP 5pF	0.25pF 50V
C214	1-164-004-11	CERAMIC CHIP 0.1 μ F	10% 25V	C415	1-128-562-11	ELECT 47 μ F	20% 100V
C215	1-104-514-11	FILM 0.22 μ F	10% 250V	C416	1-104-664-11	ELECT 47 μ F	20% 25V
C217	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V	C417	1-115-349-51	CERAMIC 0.01 μ F	2KV
C220	1-107-949-11	ELECT 2.2 μ F	20% 200V	C419	1-162-318-11	CERAMIC 0.001 μ F	10% 500V
C222	1-107-823-11	CERAMIC CHIP 0.47 μ F	10% 16V	C420	1-126-967-11	ELECT 47 μ F	20% 50V
C224	1-163-016-00	CERAMIC CHIP 0.0039 μ F	10% 50V	C421	1-126-964-11	ELECT 10 μ F	20% 50V
C230	1-115-340-11	CERAMIC CHIP 0.22 μ F	10% 25V	C424	1-164-004-11	CERAMIC CHIP 0.1 μ F	10% 25V
C240	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V	C425	1-115-340-11	CERAMIC CHIP 0.22 μ F	10% 25V
C301	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V	C429	1-163-227-11	CERAMIC CHIP 10pF	0.5pF 50V
C302	1-104-664-11	ELECT 47 μ F	20% 25V	C431	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V
C303	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V	C434	1-162-318-11	CERAMIC 0.001 μ F	10% 500V
C304	1-104-664-11	ELECT 47 μ F	20% 25V	C435	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V
C305	1-163-021-91	CERAMIC CHIP 0.01 μ F	10% 50V	C436	1-163-243-11	CERAMIC CHIP 47pF	5% 50V
				C438	1-163-243-11	CERAMIC CHIP 47pF	5% 50V
				C440	1-163-243-11	CERAMIC CHIP 47pF	5% 50V
				C442	1-163-243-11	CERAMIC CHIP 47pF	5% 50V
				C443	1-163-243-11	CERAMIC CHIP 47pF	5% 50V
				C444	1-163-243-11	CERAMIC CHIP 47pF	5% 50V
				C445	1-163-009-11	CERAMIC CHIP 0.001 μ F	10% 50V
				C446	1-164-004-11	CERAMIC CHIP 0.1 μ F	10% 25V
				C447	1-164-004-11	CERAMIC CHIP 0.1 μ F	10% 25V



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
		<TRANSISTOR>		R137	1-216-097-91	RES,CHIP	100K 5% 1/10W
				R139	1-216-049-91	RES,CHIP	1K 5% 1/10W
Q101	8-729-112-65	TRANSISTOR 2SA1462-Y33		R141	1-216-009-91	RES,CHIP	22 5% 1/10W
Q105	8-729-041-66	TRANSISTOR 2SC4015TV2		R142	1-216-121-91	RES,CHIP	1M 5% 1/10W
Q106	8-729-200-17	TRANSISTOR 2SA1091-O		R167	1-216-121-91	RES,CHIP	1M 5% 1/10W
Q201	8-729-112-65	TRANSISTOR 2SA1462-Y33		R201	1-215-395-00	METAL	82 1% 1/4W
Q205	8-729-041-66	TRANSISTOR 2SC4015TV2		R202	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
Q206	8-729-200-17	TRANSISTOR 2SA1091-O		R203	1-215-395-00	METAL	82 1% 1/4W
Q301	8-729-112-65	TRANSISTOR 2SA1462-Y33		R204	1-216-295-91	SHORT	0
Q305	8-729-041-66	TRANSISTOR 2SC4015TV2		R205	1-216-017-91	RES,CHIP	47 5% 1/10W
Q306	8-729-200-17	TRANSISTOR 2SA1091-O		R206	1-216-017-91	RES,CHIP	47 5% 1/10W
Q401	8-729-216-22	TRANSISTOR 2SA1162-G		R208	1-216-099-00	RES,CHIP	120K 5% 1/10W
Q402	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R209	1-216-117-00	RES,CHIP	680K 5% 1/10W
Q403	8-729-216-22	TRANSISTOR 2SA1162-G		R210	1-216-295-91	SHORT	0
Q404	8-729-901-00	TRANSISTOR DTC124EK		R211	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
Q405	8-729-216-22	TRANSISTOR 2SA1162-G		R212	1-216-627-11	METAL CHIP	100 0.50% 1/10W
Q406	8-729-027-31	TRANSISTOR DTA124EKA-T146		R213	1-216-009-91	RES,CHIP	22 5% 1/10W
Q408	8-729-027-31	TRANSISTOR DTA124EKA-T146		R214	1-216-035-00	RES,CHIP	270 5% 1/10W
Q409	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R215	1-216-035-00	RES,CHIP	270 5% 1/10W
Q410	8-729-032-61	TRANSISTOR 2SC5022-02		R216	1-216-017-91	RES,CHIP	47 5% 1/10W
		<RESISTOR>		R217	1-216-073-00	RES,CHIP	10K 5% 1/10W
R101	1-215-395-00	METAL	82 1% 1/4W	R219	1-216-009-91	RES,CHIP	22 5% 1/10W
R102	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R220	1-216-097-91	RES,CHIP	100K 5% 1/10W
R103	1-215-395-00	METAL	82 1% 1/4W	R221	1-216-097-91	RES,CHIP	100K 5% 1/10W
R104	1-216-295-91	SHORT	0	R222	1-216-049-91	RES,CHIP	1K 5% 1/10W
R105	1-216-017-91	RES,CHIP	47 5% 1/10W	R223	1-216-049-91	RES,CHIP	1K 5% 1/10W
R106	1-216-017-91	RES,CHIP	47 5% 1/10W	R224	1-219-497-11	CARBON	22 5% 1/2W
R108	1-216-099-00	RES,CHIP	120K 5% 1/10W	R225	1-216-091-00	RES,CHIP	56K 5% 1/10W
R109	1-216-117-00	RES,CHIP	680K 5% 1/10W	R226	1-216-097-91	RES,CHIP	100K 5% 1/10W
R110	1-216-295-91	SHORT	0	R227	1-216-035-00	RES,CHIP	270 5% 1/10W
R111	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R229	1-216-121-91	RES,CHIP	1M 5% 1/10W
R112	1-216-625-11	METAL CHIP	82 0.50% 1/10W	R230	1-216-097-91	RES,CHIP	100K 5% 1/10W
R113	1-216-009-91	RES,CHIP	22 5% 1/10W	R231	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R114	1-216-035-00	RES,CHIP	270 5% 1/10W	R232	1-216-035-00	RES,CHIP	270 5% 1/10W
R115	1-216-035-00	RES,CHIP	270 5% 1/10W	R233	1-216-049-91	RES,CHIP	1K 5% 1/10W
R116	1-216-017-91	RES,CHIP	47 5% 1/10W	R234	1-216-097-91	RES,CHIP	100K 5% 1/10W
R117	1-216-073-00	RES,CHIP	10K 5% 1/10W	R235	1-216-039-00	RES,CHIP	390 5% 1/10W
R119	1-216-009-91	RES,CHIP	22 5% 1/10W	R236	1-216-097-91	RES,CHIP	100K 5% 1/10W
R120	1-216-097-91	RES,CHIP	100K 5% 1/10W	R237	1-216-097-91	RES,CHIP	100K 5% 1/10W
R121	1-216-097-91	RES,CHIP	100K 5% 1/10W	R239	1-216-049-91	RES,CHIP	1K 5% 1/10W
R122	1-216-049-91	RES,CHIP	1K 5% 1/10W	R241	1-216-009-91	RES,CHIP	22 5% 1/10W
R123	1-216-049-91	RES,CHIP	1K 5% 1/10W	R242	1-216-121-91	RES,CHIP	1M 5% 1/10W
R124	1-219-497-11	CARBON	22 5% 1/2W	R267	1-216-121-91	RES,CHIP	1M 5% 1/10W
R125	1-216-091-00	RES,CHIP	56K 5% 1/10W	R301	1-215-395-00	METAL	82 1% 1/4W
R126	1-216-097-91	RES,CHIP	100K 5% 1/10W	R302	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R127	1-216-035-00	RES,CHIP	270 5% 1/10W	R303	1-215-395-00	METAL	82 1% 1/4W
R129	1-216-121-91	RES,CHIP	1M 5% 1/10W	R304	1-216-295-91	SHORT	0
R130	1-216-097-91	RES,CHIP	100K 5% 1/10W	R305	1-216-017-91	RES,CHIP	47 5% 1/10W
R131	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R306	1-216-017-91	RES,CHIP	47 5% 1/10W
R132	1-216-035-00	RES,CHIP	270 5% 1/10W	R308	1-216-099-00	RES,CHIP	120K 5% 1/10W
R133	1-216-049-91	RES,CHIP	1K 5% 1/10W	R309	1-216-117-00	RES,CHIP	680K 5% 1/10W
R134	1-216-097-91	RES,CHIP	100K 5% 1/10W	R310	1-216-295-91	SHORT	0
R135	1-216-039-00	RES,CHIP	390 5% 1/10W	R311	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R136	1-216-097-91	RES,CHIP	100K 5% 1/10W	R312	1-216-631-11	METAL CHIP	150 0.50% 1/10W
				R313	1-216-009-91	RES,CHIP	22 5% 1/10W
				R314	1-216-035-00	RES,CHIP	270 5% 1/10W

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



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<CAPACITOR>				<DIODE>			
C601	Δ 1-113-900-51	CERAMIC	470pF 10% 250V	D610	Δ 8-719-510-53	DIODE D4SB60L	
C602	Δ 1-113-900-51	CERAMIC	470pF 10% 250V	D611	8-719-029-04	DIODE D5L60	
C603	Δ 1-107-533-51	FILM	1 μ F 20% 250V	D612	8-719-304-63	DIODE RM11C	
C604	Δ 1-107-533-51	FILM	1 μ F 20% 250V	D614	8-719-911-19	DIODE 1SS119-25	
C605	Δ 1-113-926-91	CERAMIC	0.0047 μ F 250V	D617	8-719-911-19	DIODE 1SS119-25	
C606	Δ 1-113-926-91	CERAMIC	0.0047 μ F 250V	D640	8-719-911-19	DIODE 1SS119-25	
C610	1-137-479-11	FILM	1 μ F 10% 400V	D660	8-719-066-51	DIODE P6KE170AG23	
C611	1-113-707-11	ELECT(BLOCK)	220 μ F 20% 450V	D661	8-719-979-64	DIODE UF4005PKG23	
C616	1-104-664-11	ELECT	47 μ F 20% 25V	D662	8-719-058-92	DIODE AG01A-V1	
C621	1-136-205-11	FILM	0.022 μ F 10% 630V	D663	8-719-110-31	ZENER DIODE RD12ESB2	
C640	1-104-330-91	CERAMIC	470pF 10% 1KV	D664	8-719-911-19	DIODE 1SS119-25	
C641	1-104-330-91	CERAMIC	470pF 10% 1KV	D665	8-719-110-31	ZENER DIODE RD12ESB2	
C642	1-136-169-00	FILM	0.22 μ F 5% 50V	D666	8-719-109-97	ZENER DIODE RD6.8ESB2	
C643	1-136-169-00	FILM	0.22 μ F 5% 50V	D670	8-719-064-49	DIODE D4SBL40	
C644	1-104-330-91	CERAMIC	470pF 10% 1KV	D671	8-719-510-64	DIODE S2LA20F	
C645	1-136-165-00	FILM	0.1 μ F 5% 50V	D672	8-719-052-91	DIODE D4SBS4-F	
C646	1-136-165-00	FILM	0.1 μ F 5% 50V	D673	8-719-022-97	DIODE D2S4MF	
C647	1-129-718-00	FILM	0.022 μ F 5% 630V	D674	8-719-022-97	DIODE D2S4MF	
C660	1-115-779-11	ELECT	120 μ F 20% 25V	D677	8-719-911-19	DIODE 1SS119-25	
C661	1-126-933-11	ELECT	100 μ F 20% 16V	D678	8-719-911-19	DIODE 1SS119-25	
C662	1-130-495-00	FILM	0.1 μ F 5% 50V	D680	8-719-911-19	DIODE 1SS119-25	
C663	1-126-965-11	ELECT	22 μ F 20% 50V	D681	8-719-911-19	DIODE 1SS119-25	
C670	1-137-370-11	FILM	0.01 μ F 5% 50V	D682	8-719-510-64	DIODE S2LA20F	
C671	1-107-955-11	ELECT	100 μ F 20% 200V	D683	8-719-911-19	DIODE 1SS119-25	
C672	1-107-950-11	ELECT	3.3 μ F 20% 200V	D684	8-719-110-49	ZENER DIODE RD18ESB2	
C673	1-107-935-11	ELECT	330 μ F 20% 100V	D691	8-719-028-45	DIODE D2L20U	
C674	1-107-928-11	ELECT	4.7 μ F 20% 100V	D692	8-719-911-19	DIODE 1SS119-25	
C675	1-107-890-11	ELECT	2200 μ F 20% 25V	<FUSE>			
C676	1-107-888-11	ELECT	47 μ F 20% 25V	F601	Δ 1-576-233-11	FUSE (H.B.C.) (6.3A/250V)	
C677	1-107-890-11	ELECT	2200 μ F 20% 25V	<FERRITE BEAD>			
C678	1-107-888-11	ELECT	47 μ F 20% 25V	FB610	1-410-396-71	FERRITE 0.45 μ H	
C679	1-126-927-11	ELECT	2200 μ F 20% 10V	FB611	1-410-396-71	FERRITE 0.45 μ H	
C680	1-126-927-11	ELECT	2200 μ F 20% 10V	FB612	1-410-396-71	FERRITE 0.45 μ H	
C681	1-126-963-11	ELECT	4.7 μ F 20% 50V	<IC>			
C682	1-126-963-11	ELECT	4.7 μ F 20% 50V	IC610	8-749-013-77	IC TME757	
C683	1-164-646-11	CERAMIC	2200pF 10% 500V	IC630	8-749-012-49	IC DM-57N	
C684	1-137-370-11	FILM	0.01 μ F 5% 50V	IC660	8-759-469-10	IC TOP223PF1	
C685	1-126-967-11	ELECT	47 μ F 20% 50V	IC690	8-749-013-76	IC PQ6RD83B	
C690	1-128-528-11	ELECT	470 μ F 20% 16V	<COIL>			
C691	1-107-888-11	ELECT	47 μ F 20% 25V	L610	1-416-297-11	COIL, CHOKE 500 μ H	
C692	1-115-737-11	ELECT	0.001F 20% 10V	L611	1-412-529-11	INDUCTOR 22 μ H	
C693	1-130-495-00	FILM	0.1 μ F 5% 50V	L612	1-412-529-11	INDUCTOR 22 μ H	
C694	1-107-888-11	ELECT	47 μ F 20% 25V	L670	1-412-529-11	INDUCTOR 22 μ H	
<CONNECTOR>				L671	1-412-529-11	INDUCTOR 22 μ H	
CN603*	1-580-689-11	PIN, CONNECTOR (PC BOARD)	4P	L672	1-412-529-11	INDUCTOR 22 μ H	
CN604*	1-691-960-11	PIN, CONNECTOR (PC BOARD)	3P	L673	1-412-529-11	INDUCTOR 22 μ H	
CN605*	1-691-960-11	PIN, CONNECTOR (PC BOARD)	3P	L691	1-412-529-11	INDUCTOR 22 μ H	
CN671*	1-764-334-11	PLUG, CONNECTOR	11P				
CN672*	1-564-512-11	PLUG, CONNECTOR	9P				
CN673*	1-564-508-11	PLUG, CONNECTOR	5P				

CPD-520GS/520GST/520GST9



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

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
L692	1-412-529-11	INDUCTOR 22 μ H		R649	1-218-642-11	METAL OXIDE 100K	5% 1W F
	<PHOTO COUPLER>			R650	1-218-642-11	METAL OXIDE 100K	5% 1W F
PH680	8-749-010-64	PHOTO COUPLER PC123F2		R651	1-249-385-11	CARBON 2.2	5% 1/4W
	<IC LINK>			R652	1-212-942-00	FUSIBLE 2.2	5% 1/2W F
	PS674 Δ 1-533-593-31	LINK, IC (2A/90V AC, 60V DC)		R655	1-249-429-11	CARBON 10K	5% 1/4W
	<TRANSISTOR>			R661	1-249-389-11	CARBON 4.7	5% 1/4W F
Q610	8-729-041-65	TRANSISTOR 2SK2195F04		R662	1-249-429-11	CARBON 10K	5% 1/4W
Q615	8-729-119-76	TRANSISTOR 2SA1175-HFE		R663	1-249-429-11	CARBON 10K	5% 1/4W
Q640	8-729-039-65	TRANSISTOR MX0541B-F		R664	1-249-389-11	CARBON 4.7	5% 1/4W
Q641	8-729-119-76	TRANSISTOR 2SA1175-HFE		R665	1-249-401-11	CARBON 47	5% 1/4W
Q642	8-729-119-78	TRANSISTOR 2SC2785-HFE		R671	1-247-895-91	CARBON 470K	5% 1/4W
Q660	8-729-119-78	TRANSISTOR 2SC2785-HFE		R672	1-249-417-11	CARBON 1K	5% 1/4W
Q680	8-729-119-78	TRANSISTOR 2SC2785-HFE		R673	1-249-413-11	CARBON 470	5% 1/4W F
Q681	8-729-230-45	TRANSISTOR 2SC2458-YGR		R674	1-249-377-11	CARBON 0.47	5% 1/4W F
Q682	8-729-119-76	TRANSISTOR 2SA1175-HFE		R675	1-260-292-11	CARBON 1	5% 1/2W
Q683	8-729-119-76	TRANSISTOR 2SA1175-HFE		R680	1-249-429-11	CARBON 10K	5% 1/4W
Q690	8-729-119-78	TRANSISTOR 2SC2785-HFE		R681	1-249-417-11	CARBON 1K	5% 1/4W
	<RESISTOR>			R682	1-249-425-11	CARBON 4.7K	5% 1/4W
R601 Δ	1-220-825-91	CARBON 330K	5% 1/2W	R683	1-247-807-31	CARBON 100	5% 1/4W
R604	1-260-089-11	CARBON 150	5% 1/2W	R685	1-249-429-11	CARBON 10K	5% 1/4W
R605	1-247-863-91	CARBON 22K	5% 1/4W	R686	1-249-417-11	CARBON 1K	5% 1/4W
R610	1-207-616-00	WIREWOUND 0.47	10% 2W F	R687	1-249-417-11	CARBON 1K	5% 1/4W
R611	1-207-616-00	WIREWOUND 0.47	10% 2W F	R688	1-249-429-11	CARBON 10K	5% 1/4W
R612	1-260-123-11	CARBON 100K	5% 1/2W	R689	1-249-425-11	CARBON 4.7K	5% 1/4W
R613	1-260-123-11	CARBON 100K	5% 1/2W	R690	1-249-393-11	CARBON 10	5% 1/4W F
R619	1-215-485-00	METAL 470K	1% 1/4W	R692	1-260-085-11	CARBON 68	5% 1/2W
R620	1-215-483-00	METAL 390K	1% 1/4W	R693	1-249-425-11	CARBON 4.7K	5% 1/4W
R621	1-215-483-00	METAL 390K	1% 1/4W	R694	1-249-429-11	CARBON 10K	5% 1/4W
R625	1-249-393-11	CARBON 10	5% 1/4W		<RELAY>		
R626	1-249-429-11	CARBON 10K	5% 1/4W	RY601 Δ 1-755-232-11	RELAY, AC POWER		
R627	1-215-485-00	METAL 470K	1% 1/4W	RY602 Δ 1-755-268-11	RELAY, AC POWER		
R628	1-215-481-00	METAL 330K	1% 1/4W		<TRANSFORMER>		
R629	1-215-463-00	METAL 56K	1% 1/4W	T601 Δ 1-429-180-11	TRANSFORMER, LINE FILTER		
R630	1-247-863-91	CARBON 22K	5% 1/4W	T640	1-431-415-11	TRANSFORMER, CONVERTER (PIT)	
R631	1-249-407-11	CARBON 150	5% 1/4W	T641	1-429-992-11	TRANSFORMER, CONVERTER (PRT)	
R632	1-249-429-11	CARBON 10K	5% 1/4W	T660	1-431-565-11	TRANSFORMER, CONVERTER (SRT)	
R633	1-215-481-00	METAL 330K	1% 1/4W		<THERMISTOR>		
R635	1-249-429-11	CARBON 10K	5% 1/4W	TH601 Δ 1-809-260-11	THERMISTOR, POWER		
R640	1-220-926-11	FUSIBLE 0.47	10% 1/2W F	THP601 Δ 1-809-827-11	THERMISTOR, POSITIVE		
R641	1-218-642-11	METAL OXIDE 100K	5% 1W F		<VARISTOR>		
R642	1-218-642-11	METAL OXIDE 100K	5% 1W F	VDR601 Δ 1-801-268-31	VARISTOR TNR14V471K660		
R643	1-247-863-91	CARBON 22K	5% 1/4W	VDR602 Δ 1-810-622-21	VARISTOR		
R644	1-247-887-00	CARBON 220K	5% 1/4W	VDR640	1-810-974-21	VARISTOR TNR10V431K660	
R645	1-247-863-91	CARBON 22K	5% 1/4W				
R646	1-249-429-11	CARBON 10K	5% 1/4W				
R647	1-249-441-11	CARBON 100K	5% 1/4W				
R648	1-249-385-11	CARBON 2.2	5% 1/4W				



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
*8-933-330-00		D BOARD COMPLETE *****		C046	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
				C047	1-126-934-11	ELECT 220μF	20% 16V
				C048	1-164-690-91	CERAMIC CHIP 0.0022μF	5% 50V
		4-040-989-01 SPRING (A), TR RETAINER (R511)		C049	1-163-137-00	CERAMIC CHIP 680pF	5% 50V
		4-040-992-01 SPRING (AA), TR RETAINER (IC502, Q507)		C050	1-163-809-11	CERAMIC CHIP 0.047μF	10% 25V
		4-040-994-01 SPRING (BB), TR RETAINER (Q508, D519)		C051	1-126-960-11	ELECT 1μF	20% 50V
		4-060-719-02 SHEET, INSULATE (IC502)		C052	1-163-809-11	CERAMIC CHIP 0.047μF	10% 25V
		4-060-844-01 SHEET, INSULATING (IC702)		C054	1-126-963-11	ELECT 4.7μF	20% 50V
		4-382-854-01 SCREW (M3X8), P, SW (+) (R937)		C055	1-126-963-11	ELECT 4.7μF	20% 50V
		4-382-854-11 SCREW (M3X10), P, SW (+) (IC702, Q704, Q706, Q908, Q909)		C056	1-163-809-11	CERAMIC CHIP 0.047μF	10% 25V
		7-685-646-79 SCREW +BVTP 3X8 TYPE2 IT-3 (IC502, Q507, Q508, D519, R511)		C057	1-107-909-11	ELECT 47μF	20% 50V
				C058	1-126-934-11	ELECT 220μF	20% 16V
				C059	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
		<CAPACITOR>		C060	1-126-964-11	ELECT 10μF	20% 50V
C001	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	C061	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C002	1-163-009-11	CERAMIC CHIP 0.001μF	10% 50V	C063	1-130-495-00	FILM 0.1μF	5% 50V
C003	1-163-019-00	CERAMIC CHIP 0.0068μF	10% 50V	C065	1-126-965-11	ELECT 22μF	20% 50V
C004	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	C066	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C005	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	C067	1-163-243-11	CERAMIC CHIP 47pF	5% 50V
C007	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	C068	1-126-964-11	ELECT 10μF	20% 50V
C008	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	C069	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C009	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	C070	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C010	1-163-237-11	CERAMIC CHIP 27pF	5% 50V	C072	1-126-960-11	ELECT 1μF	20% 50V
C011	1-163-237-11	CERAMIC CHIP 27pF	5% 50V	C074	1-163-009-11	CERAMIC CHIP 0.001μF	10% 50V
C012	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	C075	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C013	1-126-967-11	ELECT 47μF	20% 50V	C076	1-163-809-11	CERAMIC CHIP 0.047μF	10% 25V
C014	1-107-914-11	ELECT 1000μF	20% 25V	C077	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
C015	1-107-914-11	ELECT 1000μF	20% 25V	C078	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
C016	1-163-009-11	CERAMIC CHIP 0.001μF	10% 50V	C079	1-126-967-11	ELECT 47μF	20% 50V
C017	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	C080	1-126-967-11	ELECT 47μF	20% 50V
C018	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	C081	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C019	1-126-967-11	ELECT 47μF	20% 50V	C082	1-126-964-11	ELECT 10μF	20% 50V
C020	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	C083	1-130-495-00	FILM 0.1μF	5% 50V
C021	1-163-023-00	CERAMIC CHIP 0.015μF	10% 50V	C084	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
C022	1-126-933-11	ELECT 100μF	20% 16V	C085	1-130-495-00	FILM 0.1μF	5% 50V
C023	1-163-009-11	CERAMIC CHIP 0.001μF	10% 50V	C086	1-126-964-11	ELECT 10μF	20% 50V
C025	1-126-960-11	ELECT 1μF	20% 50V	C087	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
C026	1-137-372-11	FILM 0.022μF	5% 50V	C088	1-163-251-11	CERAMIC CHIP 100pF	5% 50V
C027	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	C089	1-163-251-11	CERAMIC CHIP 100pF	5% 50V
C028	1-164-690-91	CERAMIC CHIP 0.0022μF	5% 50V	C090	1-109-982-11	CERAMIC CHIP 1μF	10% 10V
C029	1-126-960-11	ELECT 1μF	20% 50V	C092	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C030	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	C093	1-126-964-11	ELECT 10μF	20% 50V
C031	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	C094	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C032	1-163-019-00	CERAMIC CHIP 0.0068μF	10% 50V	C095	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C034	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	C096	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C035	1-163-121-00	CERAMIC CHIP 150pF	5% 50V	C097	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C036	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	C098	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C037	1-126-934-11	ELECT 220μF	20% 16V	C099	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
C038	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	C501	1-107-909-11	ELECT 47μF	20% 50V
C039	1-126-964-11	ELECT 10μF	20% 50V	C502	1-163-259-91	CERAMIC CHIP 220pF	5% 50V
C040	1-126-963-11	ELECT 4.7μF	20% 50V	C503	1-136-169-00	FILM 0.22μF	5% 50V
C041	1-126-960-11	ELECT 1μF	20% 50V	C504	1-137-605-11	FILM 0.01μF	10% 250V
C042	1-126-967-11	ELECT 47μF	20% 50V	C505	1-163-251-11	CERAMIC CHIP 100pF	5% 50V
C043	1-126-967-11	ELECT 47μF	20% 50V	C506	1-136-169-00	FILM 0.22μF	5% 50V
C044	1-126-967-11	ELECT 47μF	20% 50V	C507	1-137-194-81	FILM 0.47μF	5% 50V
C045	1-163-137-00	CERAMIC CHIP 680pF	5% 50V	C508	1-163-037-11	CERAMIC CHIP 0.022μF	10% 50V

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C509	1-126-941-11	ELECT	470μF 20% 25V	C707	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C510	1-137-368-11	FILM	0.0047μF 5% 50V	C709	1-130-495-00	FILM 0.1μF	5% 50V
C511	1-110-641-51	ELECT	33μF 20% 200V	C710	1-163-019-00	CERAMIC CHIP 0.0068μF	10% 50V
C512	1-107-889-11	ELECT	220μF 20% 25V	C711	1-107-894-11	ELECT 220μF	20% 35V
C513	1-163-017-00	CERAMIC CHIP	0.0047μF 10% 50V	C712	1-106-228-00	MYLAR 0.22μF	10% 100V
C514	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C713	1-126-942-61	ELECT 1000μF	20% 25V
C515	1-107-889-11	ELECT	220μF 20% 25V	C714	1-126-967-11	ELECT 47μF	20% 50V
C516	1-130-495-00	FILM	0.1μF 5% 50V	C715	1-107-932-11	ELECT 47μF	20% 100V
C517	1-104-574-11	CERAMIC	0.0047μF 10% 2KV	C717	1-107-930-91	ELECT 22μF	20% 100V
C518	1-117-413-11	FILM	6000pF 3% 1.8KV	C729	1-162-134-11	CERAMIC 470pF	10% 2KV
C519	1-107-444-11	CERAMIC	100pF 5% 2KV	C735	1-130-495-00	FILM 0.1μF	5% 50V
C520	1-136-553-11	FILM	0.0015μF 5% 630V	C746	1-163-009-11	CERAMIC CHIP 0.001μF	10% 50V
C521	1-107-597-11	CERAMIC	22pF 5% 500V	C747	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C522	1-107-444-11	CERAMIC	100pF 5% 2KV	C750	1-126-964-11	ELECT 10μF	20% 50V
C523	1-137-370-11	FILM	0.01μF 5% 50V	C751	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C524	1-113-694-11	FILM	0.056μF 5% 250V	C901	1-107-889-11	ELECT 220μF	20% 25V
C525	1-107-846-11	FILM	0.1μF 5% 250V	C902	1-163-809-11	CERAMIC CHIP 0.047μF	10% 25V
C526	1-115-514-11	FILM	0.22μF 5% 250V	C903	1-163-259-91	CERAMIC CHIP 220pF	5% 50V
C527	1-115-517-11	FILM	0.39μF 5% 250V	C904	1-137-605-11	FILM 0.01μF	10% 250V
C528	1-115-521-11	FILM	0.82μF 5% 250V	C905	1-104-653-11	ELECT 220μF	20% 16V
C529	1-107-683-11	ELECT	2.2μF 0 250V	C906	1-106-220-00	MYLAR 0.1μF	10% 100V
C530	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C907	1-110-641-51	ELECT 33μF	20% 200V
C531	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C908	1-136-169-00	FILM 0.22μF	5% 50V
C532	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C909	1-106-355-12	MYLAR 0.0033μF	10% 200V
C533	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C910	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C534	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C911	1-163-275-11	CERAMIC CHIP 0.001μF	5% 50V
C535	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C912	1-163-275-11	CERAMIC CHIP 0.001μF	5% 50V
C536	1-128-526-11	ELECT	100μF 20% 25V	C913	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
C537	1-115-523-21	FILM	1.2μF 5% 250V	C914	1-163-275-11	CERAMIC CHIP 0.001μF	5% 50V
C538	1-117-958-11	FILM	0.24μF 5% 400V	C915	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C539	1-107-960-11	ELECT	4.7μF 20% 250V	C916	1-136-064-00	FILM 2200pF	3% 1.2KV
C540	1-106-343-00	MYLAR	0.001μF 10% 200V	C917	1-107-889-11	ELECT 220μF	20% 25V
C541	1-163-243-11	CERAMIC CHIP	47pF 5% 50V	C919	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C542	1-163-243-11	CERAMIC CHIP	47pF 5% 50V	C920	1-163-009-11	CERAMIC CHIP 0.001μF	10% 50V
C544	1-137-368-11	FILM	0.0047μF 5% 50V	C921	1-163-243-11	CERAMIC CHIP 47pF	5% 50V
C545	1-126-967-11	ELECT	47μF 20% 50V	C922	1-117-665-11	FILM 0.33μF	5% 200V
C547	1-126-967-11	ELECT	47μF 20% 50V	C923	1-106-359-00	MYLAR 0.0047μF	10% 100V
C549	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C924	1-106-220-00	MYLAR 0.1μF	10% 100V
C550	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C925	1-137-372-11	FILM 0.022μF	5% 50V
C551	1-163-009-11	CERAMIC CHIP	0.001μF 10% 50V	C926	1-106-228-00	MYLAR 0.22μF	10% 100V
C553	1-126-963-11	ELECT	4.7μF 20% 50V	C927	1-107-903-11	ELECT 2.2μF	20% 50V
C554	1-163-037-11	CERAMIC CHIP	0.022μF 10% 50V	C928	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C555	1-163-037-11	CERAMIC CHIP	0.022μF 10% 50V	C929	1-128-526-11	ELECT 100μF	20% 25V
C556	1-163-009-11	CERAMIC CHIP	0.001μF 10% 50V	C930	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C557	1-115-185-11	CERAMIC CHIP	0.033μF 10% 50V	C931	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C559	1-162-134-11	CERAMIC	470pF 10% 2KV	C945	1-107-909-11	ELECT 47μF	20% 50V
C561	1-137-194-81	FILM	0.47μF 5% 50V	C1003	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C562	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C1004	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C563	1-117-214-11	CERAMIC	0.001μF 10% 2KV	C1005	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C564	1-126-963-11	ELECT	4.7μF 20% 50V	C1007	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C666	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C1008	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C667	1-126-967-11	ELECT	47μF 20% 50V	C1009	1-126-960-11	ELECT 1μF	20% 50V
C701	1-126-967-11	ELECT	47μF 20% 50V	C1501	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C702	1-130-495-00	FILM	0.1μF 5% 50V	C1502	1-117-722-11	ELECT 2200μF	20% 10V
C705	1-126-942-61	ELECT	1000μF 20% 25V	C1503	1-163-001-11	CERAMIC CHIP 220pF	10% 50V
C706	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V				



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<CONNECTOR>				D701	8-719-158-15	ZENER DIODE RD5.6SB	
CN501*	1-564-512-11	PLUG, CONNECTOR 9P		D704	8-719-404-50	DIODE MA111-TX	
CN502*	1-764-334-11	PLUG, CONNECTOR 11P		D705	8-719-404-50	DIODE MA111-TX	
CN503*	1-564-510-11	PLUG, CONNECTOR 7P		D706	8-719-976-99	ZENER DIODE DTZ5.1B	
CN504*	1-564-508-11	PLUG, CONNECTOR 5P		D709	8-719-979-85	DIODE EGP20G	
CN505*	1-508-879-11	BASE POST		D713	8-719-911-19	DIODE 1SS119-25	
CN506*	1-564-511-11	PLUG, CONNECTOR 8P		D714	8-719-911-19	DIODE 1SS119-25	
CN507	1-764-101-11	PIN, CONNECTOR (PC BOARD) 2P		D715	8-719-911-19	DIODE 1SS119-25	
CN508*	1-778-955-11	PIN, CONNECTOR (PC BOARD) 10P		D718	8-719-976-99	ZENER DIODE DTZ5.1B	
CN509*	1-564-505-11	PLUG, CONNECTOR 2P		D720	8-719-028-72	DIODE RGP02-17EL-6433	
CN511*	1-564-516-11	PLUG, CONNECTOR 13P		D721	8-719-028-72	DIODE RGP02-17EL-6433	
CN512*	1-564-512-11	PLUG, CONNECTOR 9P		D901	8-719-404-50	DIODE MA111-TX	
CN520*	1-564-509-11	PLUG, CONNECTOR 6P		D902	8-719-404-50	DIODE MA111-TX	
CN901*	1-564-520-11	PLUG, CONNECTOR 5P		D903	8-719-911-19	DIODE 1SS119-25	
<DIODE>				D904	8-719-404-50	DIODE MA111-TX	
D004	8-719-800-76	DIODE 1SS226		D905	8-719-404-50	DIODE MA111-TX	
D009	8-719-976-99	ZENER DIODE DTZ5.1B		D906	8-719-404-50	DIODE MA111-TX	
D010	8-719-976-99	ZENER DIODE DTZ5.1B		D907	8-719-158-49	ZENER DIODE RD12SB2	
D012	8-719-800-76	DIODE 1SS226		D908	8-719-158-49	ZENER DIODE RD12SB2	
D013	8-719-800-76	DIODE 1SS226		D909	8-719-977-40	ZENER DIODE DTZ13B	
D014	8-719-800-76	DIODE 1SS226		D910	8-719-063-89	DIODE YG911S3R	
D015	8-719-800-76	DIODE 1SS226		D911	8-719-978-69	ZENER DIODE DTZ-TT11-16B	
D016	8-719-800-76	DIODE 1SS226		D913	8-719-158-49	ZENER DIODE RD12SB2	
D019	8-719-800-76	DIODE 1SS226		D915	8-719-109-85	ZENER DIODE RD5.1ESB2	
D020	8-719-800-76	DIODE 1SS226		D916	8-719-939-79	DIODE GMA01-BT	
D025	8-719-976-99	ZENER DIODE DTZ5.1B		D917	8-719-110-46	ZENER DIODE RD16ESB3	
D026	8-719-800-76	DIODE 1SS226		D919	8-719-911-19	DIODE 1SS119-25	
D027	8-719-800-76	DIODE 1SS226		D921	8-719-404-50	DIODE MA111-TX	
D028	8-719-800-76	DIODE 1SS226		D922	8-719-404-50	DIODE MA111-TX	
D029	8-719-800-76	DIODE 1SS226		D923	8-719-404-50	DIODE MA111-TX	
D032	8-719-976-99	ZENER DIODE DTZ5.1B		D924	8-719-976-99	ZENER DIODE DTZ5.1B	
D035	8-719-801-78	DIODE 1SS184		D935	8-719-977-81	ZENER DIODE DTZ33B	
D050	8-719-404-50	DIODE MA111-TX		D1092	8-719-800-76	DIODE 1SS226	
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	8-719-404-50	DIODE MA111-TX	
D503	8-719-404-50	DIODE MA111-TX		D1503	8-719-404-50	DIODE MA111-TX	
D504	8-719-984-73	DIODE SB560		<FERRITE BEAD>			
D505	8-719-018-82	DIODE RGP02-20EL-6394		FB501	1-410-397-21	FERRITE 1.1μH	
D506	8-719-911-19	DIODE 1SS119-25		FB502	1-410-397-21	FERRITE 1.1μH	
D507	8-719-911-19	DIODE 1SS119-25		FB901	1-410-397-21	FERRITE 1.1μH	
D508	8-719-109-85	ZENER DIODE RD5.1ESB2		FB1025	1-414-232-11	INDUCTOR CHIP	
D509	8-719-911-19	DIODE 1SS119-25		<IC>			
D510	8-719-951-30	DIODE ERA91-02		IC001	8-759-547-39	IC MB90553PF-G-124-BND	
D511	8-719-911-19	DIODE 1SS119-25		IC002	8-759-442-20	IC 24LC21AT/SN	
D512	8-719-018-82	DIODE RGP02-20EL-6394		IC003	8-759-168-20	IC TA78L09S	
D513	8-719-404-50	DIODE MA111-TX		IC004	8-759-454-79	IC 24LC16BT/SN	
D514	8-719-109-93	ZENER DIODE RD6.2ESB2		IC005	8-759-162-80	IC MM1170BFB	
D516	8-719-056-82	ZENER DIODE UDZ-TE-17-6.2B		IC006	8-759-231-53	IC TA7805S	
D517	8-719-056-82	ZENER DIODE UDZ-TE-17-6.2B		IC007	8-752-078-46	IC CXA2043Q	
D518	8-719-404-50	DIODE MA111-TX		IC008	8-759-701-59	IC NJM78M09FA	
D519	8-719-061-21	DIODE FMQ-G5FMS		IC009	8-759-082-57	IC TC7W04FU	
D520	8-719-031-34	DIODE RGP02-20EG23		IC010	8-752-083-83	IC CXA2044M-T6	
D521	8-719-404-50	DIODE MA111-TX					
D660	8-719-977-69	ZENER DIODE DTZ24B					

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Les composants identifiés par un trémé 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
IC011	8-759-708-05	IC NJM78L05A		Q504	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC013	8-759-233-66	IC TC74HCT04AF		Q505	8-729-901-97	TRANSISTOR 2SA1036K-Q	
IC502	8-759-803-42	IC LA6500-FA		Q506	8-729-820-73	TRANSISTOR 2SC3746	
IC505	8-759-100-96	IC μ PC4558G2		Q507	8-729-035-54	TRANSISTOR 2SJ449	
IC701	8-759-822-38	IC LA6510		Q508	8-729-036-33	TRANSISTOR 2SC5301-CA	
IC702	8-759-444-82	IC LA7841L		Q509	8-729-033-25	TRANSISTOR DTC114GKA	
IC703	8-759-100-96	IC μ PC4558G2		Q510	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC901 Δ	8-759-467-70	IC BA9756FS-E2		Q511	8-729-140-50	TRANSISTOR 2SC3209LK	
<CHIP CONDUCTOR>				Q512	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
JR001	1-216-295-91	SHORT	0	Q517	8-729-920-72	TRANSISTOR 2SA1037K-T-146-QR	
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	COIL, CHOKE	100 μ H	Q526	8-729-043-41	TRANSISTOR 2SK2098-01MR-F119	
L002	1-406-665-11	COIL, CHOKE	100 μ H	Q527	8-729-043-41	TRANSISTOR 2SK2098-01MR-F119	
L003	1-412-537-31	INDUCTOR	100 μ H	Q528	8-729-043-41	TRANSISTOR 2SK2098-01MR-F119	
L004	1-412-537-31	INDUCTOR	100 μ H	Q660	8-729-033-26	TRANSISTOR DTA114GKAT146	
L006	1-410-482-31	INDUCTOR	100 μ H	Q661	8-729-033-25	TRANSISTOR DTC114GKA	
L007	1-412-537-31	INDUCTOR	100 μ H	Q701	8-729-800-32	TRANSISTOR 2SC2362K-G	
L008	1-412-537-31	INDUCTOR	100 μ H	Q703	8-729-178-43	TRANSISTOR 2SC2784-E	
L501	1-412-537-31	INDUCTOR	100 μ H	Q704	8-729-207-82	TRANSISTOR 2SC3421-Y	
L502	1-406-671-11	COIL, CHOKE	1.0mH	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	8-729-920-72	TRANSISTOR 2SA1037K-T-146-QR	
L505	1-406-675-11	COIL, CHOKE	4.7mH	Q708	8-729-020-07	TRANSISTOR 2SC4686A (LBSONY)	
L507	1-406-675-11	COIL, CHOKE	4.7mH	Q901	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L701	1-412-537-31	INDUCTOR	100 μ H	Q902	8-729-920-72	TRANSISTOR 2SA1037K-T-146-QR	
L702	1-412-522-41	INDUCTOR	5.6 μ H	Q904	8-729-901-87	TRANSISTOR 2SC2411K-CQ	
L901	1-412-537-31	INDUCTOR	100 μ H	Q905	8-729-901-97	TRANSISTOR 2SA1036K-Q	
L902	1-406-660-41	COIL, CHOKE	15 μ H	Q908	8-729-035-54	TRANSISTOR 2SJ449	
L903	1-412-537-31	INDUCTOR	100 μ H	Q909	8-729-041-58	TRANSISTOR 2SK2675	
<IC LINK>				Q911	8-729-033-25	TRANSISTOR DTC114GKA	
PS501 Δ	1-533-592-31	LINK, IC (1.6A/90V AC, 60V DC)		<RESISTOR>			
PS502 Δ	1-532-984-91	LINK, IC (2A/90V)		R001	1-216-025-91	RES,CHIP	100 5% 1/10W
PS503 Δ	1-532-984-91	LINK, IC (2A/90V)		R002	1-216-049-91	RES,CHIP	1K 5% 1/10W
PS504 Δ	1-532-984-91	LINK, IC (2A/90V)		R003	1-216-049-91	RES,CHIP	1K 5% 1/10W
PS701 Δ	1-533-590-31	LINK, IC (1A/90V AC, 60V DC)		R004	1-216-049-91	RES,CHIP	1K 5% 1/10W
PS901 Δ	1-533-592-31	LINK, IC (1.6A/90V AC, 60V DC)		R005	1-216-073-00	RES,CHIP	10K 5% 1/10W
<TRANSISTOR>				R006	1-216-049-91	RES,CHIP	1K 5% 1/10W
Q001	8-729-027-31	TRANSISTOR DTA124EKA-T146		R007	1-216-025-91	RES,CHIP	100 5% 1/10W
Q003	8-729-920-72	TRANSISTOR 2SA1037K-T-146-QR		R008	1-216-077-00	RES,CHIP	15K 5% 1/10W
Q004	8-729-920-72	TRANSISTOR 2SA1037K-T-146-QR		R009	1-216-025-91	RES,CHIP	100 5% 1/10W
Q005	8-729-920-72	TRANSISTOR 2SA1037K-T-146-QR		R010	1-216-081-00	RES,CHIP	22K 5% 1/10W
Q006	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R011	1-216-097-91	RES,CHIP	100K 5% 1/10W
Q007	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R012	1-216-025-91	RES,CHIP	100 5% 1/10W
Q501	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R013	1-216-675-11	METAL CHIP	10K 0.50% 1/10W
Q502	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R017	1-216-049-91	RES,CHIP	1K 5% 1/10W
Q503	8-729-901-97	TRANSISTOR 2SA1036K-Q		R018	1-216-049-91	RES,CHIP	1K 5% 1/10W
				R020	1-216-049-91	RES,CHIP	1K 5% 1/10W
				R023	1-216-025-91	RES,CHIP	100 5% 1/10W
				R024	1-216-089-91	RES,CHIP	47K 5% 1/10W
				R025	1-216-295-91	SHORT	0
				R026	1-216-073-00	RES,CHIP	10K 5% 1/10W



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R027	1-216-073-00	RES,CHIP	10K 5% 1/10W	R090	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R030	1-216-017-91	RES,CHIP	47 5% 1/10W	R092	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R031	1-216-073-00	RES,CHIP	10K 5% 1/10W	R094	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R032	1-216-675-11	METAL CHIP	10K 0.50%1/10W	R096	1-216-671-11	METAL CHIP	6.8K 0.50%1/10W
R033	1-216-017-91	RES,CHIP	47 5% 1/10W	R097	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R034	1-216-025-91	RES,CHIP	100 5% 1/10W	R101	1-216-049-91	RES,CHIP	1K 5% 1/10W
R035	1-216-049-91	RES,CHIP	1K 5% 1/10W	R501	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R036	1-216-025-91	RES,CHIP	100 5% 1/10W	R502	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R037	1-216-686-11	METAL CHIP	30K 0.50% 1/10W	R503	1-216-041-00	RES,CHIP	470 5% 1/10W
R038	1-216-685-11	METAL CHIP	27K 0.50% 1/10W	R504	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R039	1-216-049-91	RES,CHIP	1K 5% 1/10W	R505	1-216-041-00	RES,CHIP	470 5% 1/10W
R040	1-216-049-91	RES,CHIP	1K 5% 1/10W	R506	1-249-397-11	CARBON	22 5% 1/4W F
R041	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R507	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R042	1-216-089-91	RES,CHIP	47K 5% 1/10W	R508	1-216-025-91	RES,CHIP	100 5% 1/10W
R043	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R509	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R044	1-216-095-00	RES,CHIP	82K 5% 1/10W	R510	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R045	1-216-073-00	RES,CHIP	10K 5% 1/10W	R511	1-219-726-11	METAL	2.2 5% 10W
R046	1-216-675-11	METAL CHIP	10K 0.50%1/10W	R512	1-216-627-11	METAL CHIP	100 0.50%1/10W
R047	1-216-073-00	RES,CHIP	10K 5% 1/10W	R513	1-215-860-11	METAL OXIDE	33 5% 1W F
R048	1-216-049-91	RES,CHIP	1K 5% 1/10W	R514	1-211-796-11	FUSIBLE	1 5% 1/2W F
R050	1-216-025-91	RES,CHIP	100 5% 1/10W	R515	1-216-675-11	METAL CHIP	10K 0.50%1/10W
R051	1-216-679-11	METAL CHIP	15K 0.50%1/10W	R516	1-247-815-91	CARBON	220 5% 1/4W
R052	1-216-073-00	RES,CHIP	10K 5% 1/10W	R517	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R053	1-216-675-11	METAL CHIP	10K 0.50%1/10W	R518	1-216-097-91	RES,CHIP	100K 5% 1/10W
R054	1-216-675-11	METAL CHIP	10K 0.50%1/10W	R519	1-216-393-00	METAL OXIDE	2.2 5% 3W F
R055	1-216-089-91	RES,CHIP	47K 5% 1/10W	R520	1-216-393-00	METAL OXIDE	2.2 5% 3W F
R056	1-216-671-11	METAL CHIP	6.8K 0.50%1/10W	R521	1-249-413-11	CARBON	470 5% 1/4W F
R057	1-216-679-11	METAL CHIP	15K 0.50%1/10W	R522	1-216-423-11	METAL OXIDE	27 5% 1W F
R058	1-216-663-11	METAL CHIP	3.3K 0.50%1/10W	R523	1-249-421-11	CARBON	2.2K 5% 1/4W F
R059	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R524	1-215-869-11	METAL OXIDE	1K 5% 1W F
R060	1-216-025-91	RES,CHIP	100 5% 1/10W	R525	1-216-681-11	METAL CHIP	18K 0.50%1/10W
R061	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R526	1-214-840-00	METAL	100 1% 1/2W
R063	1-216-025-91	RES,CHIP	100 5% 1/10W	R527	1-214-840-00	METAL	100 1% 1/2W
R064	1-216-025-91	RES,CHIP	100 5% 1/10W	R528	1-214-840-00	METAL	100 1% 1/2W
R065	1-216-025-91	RES,CHIP	100 5% 1/10W	R529	1-260-313-51	CARBON	56 5% 1/2W
R066	1-216-025-91	RES,CHIP	100 5% 1/10W	R530	1-249-437-11	CARBON	47K 5% 1/4W
R067	1-216-025-91	RES,CHIP	100 5% 1/10W	R531	1-249-437-11	CARBON	47K 5% 1/4W
R068	1-216-025-91	RES,CHIP	100 5% 1/10W	R532	1-249-437-11	CARBON	47K 5% 1/4W
R069	1-216-017-91	RES,CHIP	47 5% 1/10W	R533	1-249-437-11	CARBON	47K 5% 1/4W
R070	1-216-675-11	METAL CHIP	10K 0.50%1/10W	R534	1-249-437-11	CARBON	47K 5% 1/4W
R071	1-216-049-91	RES,CHIP	1K 5% 1/10W	R535	1-216-049-91	RES,CHIP	1K 5% 1/10W
R072	1-216-651-11	METAL CHIP	1K 0.50%1/10W	R536	1-216-049-91	RES,CHIP	1K 5% 1/10W
R073	1-216-295-91	SHORT	0	R537	1-216-049-91	RES,CHIP	1K 5% 1/10W
R074	1-216-675-11	METAL CHIP	10K 0.50%1/10W	R538	1-216-049-91	RES,CHIP	1K 5% 1/10W
R075	1-216-049-91	RES,CHIP	1K 5% 1/10W	R539	1-216-049-91	RES,CHIP	1K 5% 1/10W
R076	1-216-049-91	RES,CHIP	1K 5% 1/10W	R540	1-216-073-00	RES,CHIP	10K 5% 1/10W
R077	1-216-049-91	RES,CHIP	1K 5% 1/10W	R541	1-260-314-11	CARBON	68 5% 1/2W
R078	1-216-049-91	RES,CHIP	1K 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

CPD-520GS/520GST/520GST9



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R551	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W		
R552	1-216-057-00	RES,CHIP	2.2K	5%	1/10W		
R553	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W		
R554	1-216-675-11	METAL CHIP	10K	0.50%	1/10W		
R555	1-216-065-91	RES,CHIP	4.7K	5%	1/10W		
R556	1-216-674-11	METAL CHIP	9.1K	0.50%	1/10W		
R557	1-218-760-11	METAL CHIP	220K	0.50%	1/10W		
R558	1-216-683-11	METAL CHIP	22K	0.50%	1/10W		
R561	1-216-683-11	METAL CHIP	22K	0.50%	1/10W		
R562	1-249-401-11	CARBON	47	5%	1/4W	F	
R563	1-216-662-11	METAL CHIP	3K	0.50%	1/10W		
R564	1-216-697-91	METAL CHIP	82K	0.50%	1/10W		
R565	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W		
R566	1-260-311-11	CARBON	39	5%	1/2W		
R567	1-216-627-11	METAL CHIP	100	0.50%	1/10W		
R568	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W		
R571	1-216-381-11	METAL OXIDE	0.22	5%	3W	F	
R572	1-216-097-91	RES,CHIP	100K	5%	1/10W		
R573	1-216-097-91	RES,CHIP	100K	5%	1/10W		
R574	1-216-097-91	RES,CHIP	100K	5%	1/10W		
R575	1-216-097-91	RES,CHIP	100K	5%	1/10W		
R576	1-216-097-91	RES,CHIP	100K	5%	1/10W		
R577	1-216-057-00	RES,CHIP	2.2K	5%	1/10W		
R578	1-216-025-91	RES,CHIP	100	5%	1/10W		
R579	1-216-672-11	METAL CHIP	7.5K	0.50%	1/10W		
R580	1-216-073-00	RES,CHIP	10K	5%	1/10W		
R581	1-216-073-00	RES,CHIP	10K	5%	1/10W		
R582	1-216-073-00	RES,CHIP	10K	5%	1/10W		
R583	1-216-677-11	METAL CHIP	12K	0.50%	1/10W		
R584	1-216-081-00	RES,CHIP	22K	5%	1/10W		
R585	1-216-081-00	RES,CHIP	22K	5%	1/10W		
R586	1-216-049-91	RES,CHIP	1K	5%	1/10W		
R587	1-216-049-91	RES,CHIP	1K	5%	1/10W		
R588	1-216-097-91	RES,CHIP	100K	5%	1/10W		
R589	1-216-097-91	RES,CHIP	100K	5%	1/10W		
R590	1-216-675-11	METAL CHIP	10K	0.50%	1/10W		
R591	1-216-675-11	METAL CHIP	10K	0.50%	1/10W		
R594	1-249-437-11	CARBON	47K	5%	1/4W		
R595	1-249-437-11	CARBON	47K	5%	1/4W		
R596	1-216-683-11	METAL CHIP	22K	0.50%	1/10W		
R663	1-215-481-00	METAL	330K	1%	1/4W		
R664	1-215-459-00	METAL	39K	1%	1/4W		
R665	1-216-049-91	RES,CHIP	1K	5%	1/10W		
R667	1-216-041-00	RES,CHIP	470	5%	1/10W		
R669	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W		
R701	1-249-383-11	CARBON	1.5	5%	1/4W	F	
R702	1-216-057-00	RES,CHIP	2.2K	5%	1/10W		
R703	1-216-085-00	RES,CHIP	33K	5%	1/10W		
R704	1-249-383-11	CARBON	1.5	5%	1/4W	F	
R705	1-249-385-11	CARBON	2.2	5%	1/4W		
R706	1-216-093-91	RES,CHIP	68K	5%	1/10W		
R707	1-249-421-11	CARBON	2.2K	5%	1/4W		
R708	1-216-073-00	RES,CHIP	10K	5%	1/10W		
R709	1-216-473-11	METAL OXIDE	56	5%	3W	F	
R710	1-216-073-00	RES,CHIP	10K	5%	1/10W		
R715	1-216-077-00	RES,CHIP	15K	5%	1/10W		
R719	1-249-383-11	CARBON	1.5	5%	1/4W	F	
R720	1-260-292-11	CARBON	1	5%	1/2W		
R721	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W		
R722	1-216-691-11	METAL CHIP	47K	0.50%	1/10W		
R723	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W		
R724	1-214-798-21	METAL	1.8	1%	1/2W		
R725	1-214-798-21	METAL	1.8	1%	1/2W		
R726	1-216-675-11	METAL CHIP	10K	0.50%	1/10W		
R727	1-260-292-11	CARBON	1	5%	1/2W		
R728	1-249-381-11	CARBON	1	5%	1/4W	F	
R729	1-215-865-11	METAL OXIDE	220	5%	1W	F	
R730	1-219-746-11	CARBON	1K	5%	1/2W		
R731	1-216-073-00	RES,CHIP	10K	5%	1/10W		
R732	1-216-073-00	RES,CHIP	10K	5%	1/10W		
R733	1-219-746-11	CARBON	1K	5%	1/2W		
R734	1-215-881-11	METAL OXIDE	15	5%	2W	F	
R737	1-249-377-11	CARBON	0.47	5%	1/4W	F	
R738	1-249-377-11	CARBON	0.47	5%	1/4W	F	
R739	1-249-413-11	CARBON	470	5%	1/4W	F	
R741	1-249-430-11	CARBON	12K	5%	1/4W		
R742	1-249-419-11	CARBON	1.5K	5%	1/4W		
R743	1-216-049-91	RES,CHIP	1K	5%	1/10W		
R748	1-216-683-11	METAL CHIP	22K	0.50%	1/10W		
R749	1-216-049-91	RES,CHIP	1K	5%	1/10W		
R750	1-216-057-00	RES,CHIP	2.2K	5%	1/10W		
R751	1-216-065-91	RES,CHIP	4.7K	5%	1/10W		
R752	1-216-083-00	RES,CHIP	27K	5%	1/10W		
R753	1-219-720-11	METAL	10M	5%	1W		
R754	1-220-827-91	REGISTER	560K	5%	1/2W		
R755	1-220-827-91	REGISTER	560K	5%	1/2W		
R756	1-220-827-91	REGISTER	560K	5%	1/2W		
R759	1-218-754-11	METAL CHIP	120K	0.50%	1/10W		
R776	1-216-049-91	RES,CHIP	1K	5%	1/10W		
R777	1-216-681-11	METAL CHIP	18K	0.50%	1/10W		
R778	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W		
R779	1-216-049-91	RES,CHIP	1K	5%	1/10W		
R784	1-216-081-00	RES,CHIP	22K	5%	1/10W		
R900	1-216-399-00	METAL OXIDE	6.8	5%	3W	F	
R901	1-216-057-00	RES,CHIP	2.2K	5%	1/10W		
R902	1-216-065-91	RES,CHIP	4.7K	5%	1/10W		
R903	1-216-073-00	RES,CHIP	10K	5%	1/10W		
R904	1-216-057-00	RES,CHIP	2.2K	5%	1/10W		
R905	1-216-025-91	RES,CHIP	100	5%	1/10W		
R906	1-216-065-91	RES,CHIP	4.7K	5%	1/10W		
R907	1-216-025-91	RES,CHIP	100	5%	1/10W		
R908	1-216-091-00	RES,CHIP	56K	5%	1/10W		
R909	1-216-689-11	RES,CHIP	39K	5%	1/10W		
R910	1-216-073-00	RES,CHIP	10K	5%	1/10W		
R911	1-216-049-91	RES,CHIP	1K	5%	1/10W		
R912	1-218-768-11	METAL CHIP	470K	0.50%	1/10W		
R913	1-219-748-11	CARBON	4.7K	5%	1/2W		
R914	1-219-510-11	CARBON	470K	5%	1/2W		
R915	1-249-437-11	CARBON	47K	5%	1/4W		
R916	1-249-429-11	CARBON	10K	5%	1/4W		
R917	1-216-073-00	RES,CHIP	10K	5%	1/10W		
R918	1-216-097-91	RES,CHIP	100K	5%	1/10W		

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

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



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R919	1-216-025-91	RES,CHIP	100 5% 1/10W	<SPARK GAP>			
R920	1-249-401-11	CARBON	47 5% 1/4W F	SG701	1-519-422-11	GAP, SPARK	
R921	1-216-668-11	METAL CHIP	5.1K 0.50%1/10W	SG702	1-519-422-11	GAP, SPARK	
R922	1-216-041-00	RES,CHIP	470 5% 1/10W	SG901	1-517-499-21	GAP, SPARK	
R923	1-216-675-11	METAL CHIP	10K 0.50%1/10W	<TRANSFORMER>			
R924	1-249-397-11	CARBON	22 5% 1/4W F	<TRANSFORMER>			
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	COIL, CHOKE 5.0mH	
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	COIL, CHOKE 2.0mH	
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	<TRANSFORMER>			
R933	1-216-683-11	METAL CHIP	22K 0.50%1/10W	T901	1-416-402-11	COIL, CHOKE 500 μ H	
R934	1-216-667-11	METAL CHIP	4.7K 0.50%1/10W	T902	Δ X-4035-170-1	TRANSFORMER ASSY, FLYBACK (NX-4142//J1D4)	
R937	1-219-727-11	METAL	68 5% 10W	<THERMISTOR>			
R940	1-249-393-11	CARBON	10 5% 1/4W F	<THERMISTOR>			
R941	1-216-073-00	RES,CHIP	10K 5% 1/10W	TH501	1-807-796-11	THERMISTOR	
R980	1-216-049-91	RES,CHIP	1K 5% 1/10W	TH502	1-807-796-11	THERMISTOR	
R981	1-216-025-91	RES,CHIP	100 5% 1/10W	<CRYSTAL>			
R1001	1-216-073-00	RES,CHIP	10K 5% 1/10W	<CRYSTAL>			
R1003	1-216-049-91	RES,CHIP	1K 5% 1/10W	X001	1-567-781-61	VIBRATOR, CRYSTAL (4 MHz)	
R1004	1-216-049-91	RES,CHIP	1K 5% 1/10W	*****			
R1005	1-216-049-91	RES,CHIP	1K 5% 1/10W	* 8-933-332-00H5 BOARD, COMPLETE (included H6)			
R1006	1-216-049-91	RES,CHIP	1K 5% 1/10W	*****			
R1007	1-216-049-91	RES,CHIP	1K 5% 1/10W	<DIODE>			
R1009	1-216-097-91	RES,CHIP	100K 5% 1/10W	D810	8-719-059-93	DIODE SPR-505MVWT31	
R1011	1-216-073-00	RES,CHIP	10K 5% 1/10W	<TRANSISTOR>			
R1012	1-216-049-91	RES,CHIP	1K 5% 1/10W	<TRANSISTOR>			
R1013	1-216-049-91	RES,CHIP	1K 5% 1/10W	Q801	8-729-119-78	TRANSISTOR 2SC2785-HFE	
R1014	1-216-049-91	RES,CHIP	1K 5% 1/10W	Q802	8-729-119-78	TRANSISTOR 2SC2785-HFE	
R1015	1-216-295-91	SHORT	0	<RESISTOR>			
R1016	1-216-049-91	RES,CHIP	1K 5% 1/10W	<RESISTOR>			
R1017	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R802	1-215-409-00	METAL	330 1% 1/4W
R1020	1-216-049-91	RES,CHIP	1K 5% 1/10W	R803	1-215-409-00	METAL	330 1% 1/4W
R1021	1-216-049-91	RES,CHIP	1K 5% 1/10W	R804	1-215-413-00	METAL	470 1% 1/4W
R1022	1-216-295-91	SHORT	0	R805	1-215-413-00	METAL	470 1% 1/4W
R1023	1-216-295-91	SHORT	0	R806	1-215-417-00	METAL	680 1% 1/4W
R1024	1-216-295-91	SHORT	0	<RESISTOR>			
R1025	1-249-389-11	CARBON	4.7 5% 1/4W F	R814	1-249-429-11	CARBON	10K 5% 1/4W
R1027	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R815	1-249-429-11	CARBON	10K 5% 1/4W
R1028	1-216-049-91	RES,CHIP	1K 5% 1/10W	R826	1-249-408-11	CARBON	180 5% 1/4W
R1093	1-216-073-00	RES,CHIP	10K 5% 1/10W	R827	1-249-407-11	CARBON	150 5% 1/4W
R1094	1-216-049-91	RES,CHIP	1K 5% 1/10W	<SWITCH>			
R1096	1-216-077-00	RES,CHIP	15K 5% 1/10W	<SWITCH>			
R1501	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	S802	1-692-431-21	SWITCH, TACTILE (CONT +)	
R1502	1-216-073-00	RES,CHIP	10K 5% 1/10W	<SWITCH>			
R1503	1-216-125-00	RES,CHIP	1.5M 5% 1/10W	<SWITCH>			
R1504	1-216-097-91	RES,CHIP	100K 5% 1/10W	<SWITCH>			
R1513	1-216-049-91	RES,CHIP	1K 5% 1/10W	<SWITCH>			
R1514	1-216-049-91	RES,CHIP	1K 5% 1/10W	<SWITCH>			
<RELAY>				<SWITCH>			
RY501	1-755-137-11	RELAY		<SWITCH>			

CPD-520GS/520GST/520GST9



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
S803	1-692-431-21	SWITCH, TACTILE (CONT -)				<THERMISTOR>	
S804	1-692-431-21	SWITCH, TACTILE (MENU)					
S805	1-762-816-11	SWITCH, TACTIL (BRT +/-)		TH801	1-807-796-11	THERMISTOR	
*****				*****			
	* 8-933-332-00H6 BOARD, COMPLETE (included H5)				* 8-933-335-00J BOARD, COMPLETE		
	*****				*****		
	<CAPACITOR>				<CONNECTOR>		
C805	1-124-589-11	ELECT	47 μ F 20% 16V	CN891*	1-691-961-11	PIN, CONNECTOR (PC BOARD) 2P	
C811	1-124-589-11	ELECT	47 μ F 20% 16V				
	<CONNECTOR>				<SWITCH>		
CN801*	1-564-526-11	PLUG, CONNECTOR 11P		S891 Δ	1-571-433-31	SWITCH, PUSH (AC POWER)	
	<DIODE>			*****			
D812	8-719-060-26	DIODE SLR-325YCT31			* 8-933-336-00 L2 BOARD COMPLETE		
D813	8-719-060-26	DIODE SLR-325YCT31			*****		
	<TRANSISTOR>				<CAPACITOR>		
Q803	8-729-119-78	TRANSISTOR 2SC2785-HFE		C5002	1-126-964-11	ELECT	10 μ F 20% 50V
Q804	8-729-119-78	TRANSISTOR 2SC2785-HFE		C5003	1-126-933-11	ELECT	100 μ F 20% 16V
	<RESISTOR>			C5004	1-104-664-11	ELECT	47 μ F 20% 25V
R801	1-215-433-00	METAL	3.3K 1% 1/4W	C5005	1-104-664-11	ELECT	47 μ F 20% 25V
R807	1-215-421-00	METAL	1K 1% 1/4W	C5008	1-104-664-11	ELECT	47 μ F 20% 25V
R808	1-215-421-00	METAL	1K 1% 1/4W	C5009	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
R809	1-215-429-00	METAL	2.2K 1% 1/4W	C5101	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
R810	1-215-433-00	METAL	3.3K 1% 1/4W	C5103	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
R812	1-247-815-91	CARBON	220 5% 1/4W	C5104	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
R813	1-247-815-91	CARBON	220 5% 1/4W	C5105	1-104-664-11	ELECT	47 μ F 20% 25V
R816	1-247-863-91	CARBON	22K 5% 1/4W	C5106	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
R817	1-247-863-91	CARBON	22K 5% 1/4W	C5107	1-130-495-00	FILM	0.1 μ F 5% 50V
R818	1-215-445-00	METAL	10K 1% 1/4W	C5108	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
R819	1-249-441-11	CARBON	100K 5% 1/4W	C5109	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
R824	1-247-863-91	CARBON	22K 5% 1/4W	C5110	1-104-664-11	ELECT	47 μ F 20% 25V
R825	1-247-863-91	CARBON	22K 5% 1/4W	C5111	1-130-495-00	FILM	0.1 μ F 5% 50V
	<SWITCH>			C5201	1-104-664-11	ELECT	47 μ F 20% 25V
S807	1-692-431-21	SWITCH, TACTILE (INPUT)		C5202	1-104-664-11	ELECT	47 μ F 20% 25V
S808	1-692-431-21	SWITCH, TACTILE (ASC)		C5203	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
S810	1-692-431-21	SWITCH, TACTILE (RESET)		C5204	1-130-495-00	FILM	0.1 μ F 5% 50V
				C5205	1-164-489-11	CERAMIC CHIP	0.22 μ F 10% 16V
				C5206	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
				C5301	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
				C5303	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
				C5304	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
				C5305	1-104-664-11	ELECT	47 μ F 20% 25V
				C5306	1-164-004-11	CERAMIC CHIP	0.1 μ F 10% 25V
				C5307	1-130-495-00	FILM	0.1 μ F 5% 50V



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C5308	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	R5102	1-249-383-11	CARBON 1.5	5% 1/4W F
C5309	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	R5108	1-216-308-00	RES,CHIP 4.7	5% 1/10W
C5310	1-104-664-11	ELECT 47μF	20% 25V	R5109	1-216-308-00	RES,CHIP 4.7	5% 1/10W
C5311	1-130-495-00	FILM 0.1μF	5% 50V	R5110	1-216-073-00	RES,CHIP 10K	5% 1/10W
C5401	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	R5111	1-216-308-00	RES,CHIP 4.7	5% 1/10W
C5403	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	R5112	1-249-383-11	CARBON 1.5	5% 1/4W F
C5404	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	R5113	1-216-073-00	RES,CHIP 10K	5% 1/10W
C5405	1-104-664-11	ELECT 47μF	20% 25V	R5114	1-249-441-11	CARBON 100K	5% 1/4W F
C5406	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	R5115	1-215-882-00	METAL OXIDE 22	5% 2W F
C5407	1-130-495-00	FILM 0.1μF	5% 50V	R5116	1-216-073-00	RES,CHIP 10K	5% 1/10W
C5408	1-163-003-11	CERAMIC CHIP 330pF	10% 50V	R5117	1-216-308-00	RES,CHIP 4.7	5% 1/10W
C5409	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	R5119	1-216-073-00	RES,CHIP 10K	5% 1/10W
C5410	1-104-664-11	ELECT 47μF	20% 25V	R5120	1-249-383-11	CARBON 1.5	5% 1/4W F
C5412	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	R5121	1-249-441-11	CARBON 100K	5% 1/4W F
C5501	1-126-934-11	ELECT 220μF	20% 10V	R5122	1-215-882-00	METAL OXIDE 22	5% 2W F
				R5201	1-249-383-11	CARBON 1.5	5% 1/4W F
		<CONNECTOR>		R5202	1-249-383-11	CARBON 1.5	5% 1/4W F
		CN5001*1-564-512-11	PLUG, CONNECTOR 9P	R5203	1-249-383-11	CARBON 1.5	5% 1/4W F
		CN5002*1-564-509-11	PLUG, CONNECTOR 6P	R5204	1-249-441-11	CARBON 100K	5% 1/4W F
		CN5003*1-564-513-11	PLUG, CONNECTOR 10P	R5205	1-216-073-00	RES,CHIP 10K	5% 1/10W
		CN5004*1-564-507-11	PLUG, CONNECTOR 4P	R5206	1-215-859-00	METAL OXIDE 22	5% 1W F
				R5207	1-216-073-00	RES,CHIP 10K	5% 1/10W
		<DIODE>		R5208	1-216-670-11	METAL CHIP 6.2K	0.50% 1/10W
D5002	8-719-801-78	DIODE 1SS184		R5301	1-249-383-11	CARBON 1.5	5% 1/4W F
D5101	8-719-800-76	DIODE 1SS226		R5302	1-249-383-11	CARBON 1.5	5% 1/4W F
D5103	8-719-800-76	DIODE 1SS226		R5308	1-216-308-00	RES,CHIP 4.7	5% 1/10W
D5201	8-719-800-76	DIODE 1SS226		R5309	1-216-308-00	RES,CHIP 4.7	5% 1/10W
D5301	8-719-800-76	DIODE 1SS226		R5310	1-216-073-00	RES,CHIP 10K	5% 1/10W
D5303	8-719-800-76	DIODE 1SS226		R5311	1-216-308-00	RES,CHIP 4.7	5% 1/10W
D5401	8-719-800-76	DIODE 1SS226		R5312	1-249-383-11	CARBON 1.5	5% 1/4W F
D5403	8-719-800-76	DIODE 1SS226		R5313	1-216-073-00	RES,CHIP 10K	5% 1/10W
D5501	8-719-976-96	ZENER DIODE DTZ4.7C		R5314	1-249-441-11	CARBON 100K	5% 1/4W F
				R5315	1-215-882-00	METAL OXIDE 22	5% 2W F
		<SENSOR>		R5316	1-216-073-00	RES,CHIP 10K	5% 1/10W
GS50018-610-154-91		SENSOR, MAGNETIC MIU-212		R5317	1-216-308-00	RES,CHIP 4.7	5% 1/10W
				R5319	1-216-073-00	RES,CHIP 10K	5% 1/10W
		<IC>		R5320	1-249-383-11	CARBON 1.5	5% 1/4W F
IC5101	8-759-822-38	IC LA6510		R5321	1-249-441-11	CARBON 100K	5% 1/4W F
IC5201	8-759-803-42	IC LA6500-FA		R5322	1-215-882-00	METAL OXIDE 22	5% 2W F
IC5301	8-759-822-38	IC LA6510		R5401	1-249-383-11	CARBON 1.5	5% 1/4W F
IC5401	8-759-822-38	IC LA6510		R5402	1-249-383-11	CARBON 1.5	5% 1/4W F
		<RESISTOR>		R5406	1-216-689-11	RES,CHIP 39K	5% 1/10W
R5001	1-249-383-11	CARBON 1.5	5% 1/4W F	R5407	1-216-079-00	RES,CHIP 18K	5% 1/10W
R5003	1-216-295-91	SHORT 0		R5408	1-216-308-00	RES,CHIP 4.7	5% 1/10W
R5005	1-216-689-11	RES,CHIP 39K	5% 1/10W	R5409	1-216-308-00	RES,CHIP 4.7	5% 1/10W
R5006	1-216-073-00	RES,CHIP 10K	5% 1/10W	R5410	1-216-089-91	RES,CHIP 47K	5% 1/10W
R5007	1-216-049-91	RES,CHIP 1K	5% 1/10W	R5411	1-216-308-00	RES,CHIP 4.7	5% 1/10W
R5010	1-216-295-91	SHORT 0		R5412	1-249-383-11	CARBON 1.5	5% 1/4W F
R5011	1-216-073-00	RES,CHIP 10K	5% 1/10W	R5413	1-216-097-91	RES,CHIP 100K	5% 1/10W
R5015	1-216-049-91	RES,CHIP 1K	5% 1/10W	R5414	1-249-441-11	CARBON 100K	5% 1/4W F
R5101	1-249-383-11	CARBON 1.5	5% 1/4W F	R5415	1-215-886-11	METAL OXIDE 100	5% 2W F
				R5416	1-216-077-00	RES,CHIP 15K	5% 1/10W
				R5417	1-216-308-00	RES,CHIP 4.7	5% 1/10W
				R5419	1-216-089-91	RES,CHIP 47K	5% 1/10W
				R5420	1-249-383-11	CARBON 1.5	5% 1/4W F
				R5421	1-249-441-11	CARBON 100K	5% 1/4W F

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REF.NO.	PART NO.	DESCRIPTION	REMARK
R5422	1-215-885-00	METAL OXIDE 68	5% 2W F
R5423	1-216-105-91	RES, CHIP 220K	5% 1/10W
R5501	1-216-057-91	RES, CHIP 2.2K	5% 1/10W
R5502	1-216-681-11	METAL CHIP 18K	0.50%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

CPD-520GS/520GST/520GST9

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