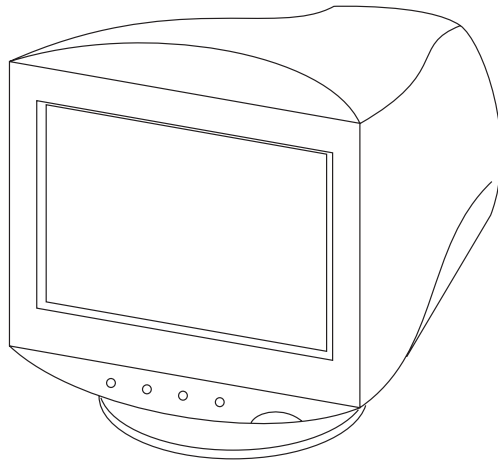


CPD-G520

SERVICE MANUAL



US Model
Canadian Model
N. Hemisphere Model
S. Hemisphere Model
Equator Model
Chassis No. SCC-L33E-A

CR1 CHASSIS

SPECIFICATIONS

| | | | |
|---------------------|--|---|--|
| CRT | 0.24 mm aperture grille pitch 21 inches measured diagonally 90-degree deflection FD Trinitron | Deflection frequency* | Horizontal: 30 to 130 kHz Vertical: 48 to 170 Hz |
| Viewable image size | Approx. 403.8 × 302.2 mm (w/h) (16 × 12 inches) 19.8" viewing image | AC input voltage/current Power consumption | 100 to 240 V, 50 – 60 Hz, 2.0 – 1.0 A Approx. 135 W (with no USB devices connected) |
| Resolution | | Dimensions | Approx. 497 × 502 × 485 mm (w/h/d) (19 ⁵ / ₈ × 19 × 18 ⁷ / ₈ inches) |
| Maximum | Horizontal: 2048 dots Vertical: 1536 lines | Mass | Approx. 30 kg (66 lb 2 oz) |
| Recommended | Horizontal: 1600 dots Vertical: 1200 lines | Plug and Play | DDC2B/DDC2Bi, GTF** |
| Input signal levels | Video signal Analog RGB: 0.700 Vp-p (positive), 75 Ω SYNC signal H/V separate or composite sync: TTL 2 kΩ, Polarity free Sync on Green: 0.3 Vp-p (negative) | | * Recommended horizontal and vertical timing condition • Horizontal sync width duty should be more than 4.8% of total horizontal time or 0.8 μs, whichever is larger. • Horizontal blanking width should be more than 2.3 μsec. • Vertical blanking width should be more than 450 μsec. ** If the input signal is Generalized Timing Formula (GTF) compliant, the GTF feature of the monitor will automatically provide an optimal image for the screen. |
| 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) | | Design and specifications are subject to change without notice. |

TRINITRON® COLOR COMPUTER DISPLAY
SONY®

SAFETY CHECK-OUT

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

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are “pinched” or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the B+ and HV to see if they are specified values. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
8. Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC Leakage. Check leakage as described below.

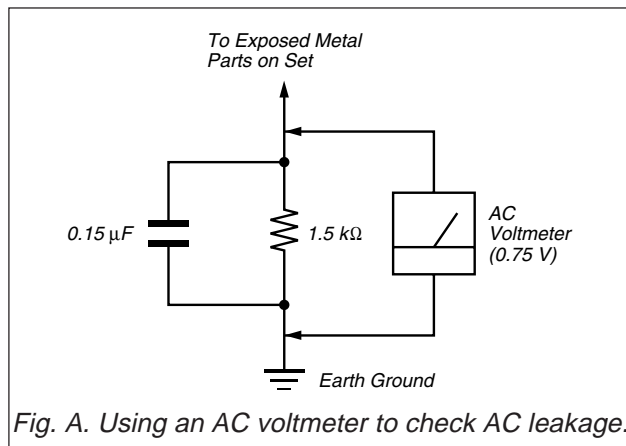


Fig. A. Using an AC voltmeter to check AC leakage.

LEAKAGE TEST

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

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

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

WARNING!!

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

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK \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, ENERGY STAR, and NUTEK. If no signal is input to the monitor from your computer, the monitor will automatically reduce power consumption as shown below.

| Power mode | Power consumption* | ① (power) indicator |
|---------------------------------|--|---------------------|
| normal operation | ≤ 135 W (CPD-G520) ≤ 130 W (CPD-G420) | green |
| active off** (deep sleep)*** | ≤ 3 W | orange |
| power off | Approx. 0 W | off |

* Figures reflect power consumption when no USB compatible peripherals are connected to the monitor.

** When your computer enters power saving mode, the input signal is cut and NO SIGNAL appears on the screen before the monitor enters active off mode. After a few seconds, the monitor enters power saving mode.

*** "Deep sleep" is power saving mode defined by the Environmental Protection Agency.

DIAGNOSIS

| Failre | Power LED |
|---|--|
| +B failure | Amber → Off (0.5 sec) (0.5 sec) |
| Horizontal / Vertical Deflection failure, Thermal protector | Amber → Off (1.5 sec) (0.5 sec) |
| ABL protector | Amber → Off (0.5 sec) (1.5 sec) |
| HV failure | Amber → Off → Amber → Off (0.25 sec) (0.25 sec) (0.25 sec) (1.25 sec) |
| Aging / Self Test | Amber → Off → Green → Off (0.5 sec) (0.5 sec) (0.5 sec) (0.5 sec) |
| Out of scan range | Green (OSD indication) |

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

Self Test (OSD Color Bar) : During Power Save, push up Control button for longer than 2 second.

Reliability Check Mode : During Power Save, push down Control button for longer than 2 second.

TIMING SPECIFICATION

| MODE AT PRODUCTION | MODE 1 | MODE 2 | MODE 3 | MODE 4 |
|---------------------|------------|-------------|-------------|-------------|
| RESOLUTION | 640 X 480 | 1600 X 1200 | 1920 X 1440 | 1920 X 1440 |
| CLOCK | 25.175 MHz | 229.500 MHz | 341.000 MHz | 297.000 MHz |
| — HORIZONTAL — | | | | |
| H-FREQ | 31.469 kHz | 106.250 kHz | 128.485 kHz | 112.500 kHz |
| | usec | usec | usec | usec |
| H. TOTAL | 31.778 | 9.412 | 7.783 | 8.889 |
| H. BLK | 6.356 | 2.440 | 2.152 | 2.424 |
| H. FP | 0.636 | 0.279 | 0.457 | 0.485 |
| H. SYNC | 3.813 | 0.837 | 0.622 | 0.754 |
| H. BP | 1.907 | 1.325 | 1.073 | 1.185 |
| H. ACTIV | 25.422 | 6.972 | 5.630 | 6.465 |
| — VERTICAL — | | | | |
| V. FREQ (HZ) | 59.940 Hz | 85.000 Hz | 84.977 Hz | 75.000 Hz |
| | lines | lines | lines | lines |
| V. TOTAL | 525 | 1250 | 1512 | 1500 |
| V. BLK | 45 | 50 | 72 | 60 |
| V. FP | 10 | 1 | 1 | 1 |
| V. SYNC | 2 | 3 | 3 | 3 |
| V. BP | 33 | 46 | 68 | 56 |
| V. ACTIV | 480 | 1200 | 1440 | 1440 |
| — SYNC — | | | | |
| INT(G) | NO | NO | NO | NO |
| EXT (H/V) /POLARITY | YES N/N | YES P/P | YES P/P | YES N/P |
| EXT (CS) /POLARITY | NO | NO | NO | NO |
| INT/NON INT | NON INT | NON INT | NON INT | NON INT |

2000.8.9 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.

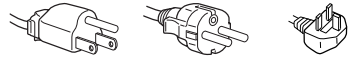
SECTION 1 GENERAL

Precautions

Warning on power connections

- Use the supplied power cord. If you use a different power cord, be sure that it is compatible with your local power supply.

Example of plug types



for 100 to 120 V AC for 200 to 240 V AC for 240 V AC only

- Before disconnecting the power cord, wait at least 30 seconds after turning off the power to allow the static electricity on the screen's surface to discharge.
- After the power is turned on, the screen is demagnetized (degaussed) for about a few seconds. This generates a strong magnetic field around the screen which may affect data stored on magnetic tapes and disks placed near the monitor. Be sure to keep magnetic recording equipment, tapes, and disks away from the monitor.

The equipment should be installed near an easily accessible outlet.

Installation

Do not install the monitor in the following places:

- on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies, etc.) that may block the ventilation holes
- near heat sources such as radiators or air ducts, or in a place subject to direct sunlight
- in a place subject to severe temperature changes
- in a place subject to mechanical vibration or shock
- on an unstable surface
- near equipment which generates magnetism, such as a transformer or high voltage power lines
- near or on an electrically charged metal surface

Maintenance

- 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.
- 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 cabinet, panel and controls with a soft cloth lightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent, such as alcohol or benzene.

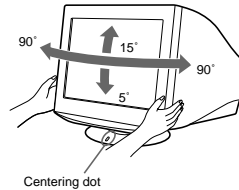
Transportation

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

Use of the tilt-swivel

This monitor can be adjusted within the angles shown below. To find the center of the monitor's turning radius, align the center of the monitor's screen with the centering dot on the stand.

Hold the monitor at the bottom with both hands when you turn it horizontally or vertically. Be careful not to pinch your fingers at the back of the monitor when you tilt the monitor up vertically.

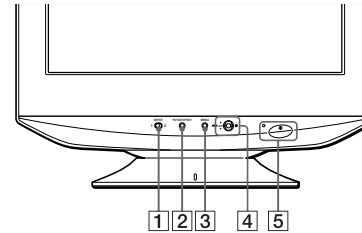


Centering dot

Identifying parts and controls

See the pages in parentheses for further details.

Front



1 INPUT (input) switch (page 9)

This switch selects the INPUT 1 (video input 1 connector: ①) or INPUT 2 (video input 2 connector: ②).

2 PICTURE EFFECT button (page 11)

This button is used to change the preset picture effects' modes.

3 MENU button (page 10)

This button is used to display or close the menu.

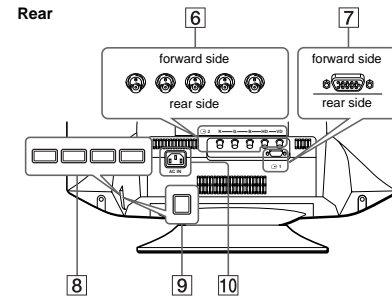
4 Control button (OK, ↑/↓) (page 11)

This button is used to make adjustments to the monitor and call up the CONTRAST menu directly.

5 ① (power) switch and indicator (pages 7, 18, 22)

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

Rear

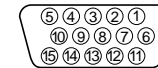


6 Video input 2 connector (BNC) (page 6)

This connector inputs RGB video signals (0.700 Vp-p, positive) and sync signals.

7 Video input 1 connector (HD15) (page 6)

This connector inputs RGB video signals (0.700 Vp-p, positive) and sync signals.



| Pin No. | Signal | Pin No. | Signal |
|---------|-----------------|---------|----------------------------|
| 1 | Red | 9 | DDC + 5V* |
| 2 | Green | 10 | Ground |
| | (Sync on Green) | 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 | | |
| 8 | Blue Ground | | |

* DDC (Display Data Channel) is a standard of VESA.

8 USB (universal serial bus) downstream connectors (page 8)

Use these connectors to link USB peripheral devices to the monitor.

9 USB (universal serial bus) upstream connector (page 8)

Use this connector to link the monitor to a USB compliant computer.

10 AC IN connector (page 7)

This connector provides AC power to the monitor.

US

Setup

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

- Power cord (1)
- HD15 video signal cable (1)
- USB cable (1)
- Exclusive Power Mac G3/G4 adapter (1)
- Warranty card (1)
- Notes on cleaning the screen's surface (1)
- This instruction manual (1)

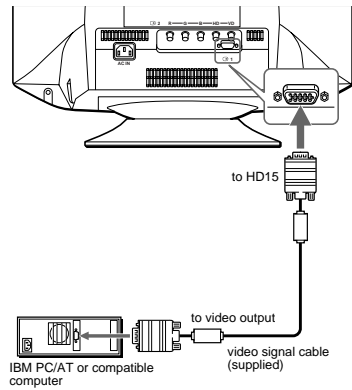
Step 1: Connect your monitor to your computer

Turn off the monitor and computer before connecting.

Notes

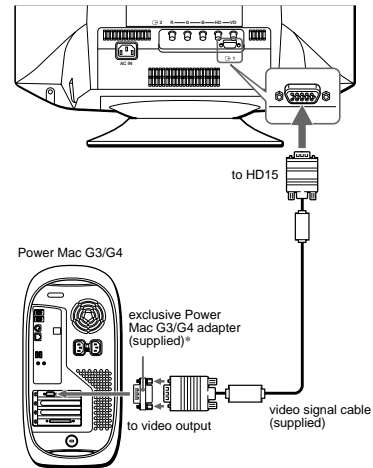
- Do not touch the pins of the video signal cable connector as this might bend the pins.
- When connecting the video signal cable, check the alignment of the HD15 connector. Do not force the connector in the wrong way or the pins might bend.

■ Connecting to an IBM PC/AT or compatible computer



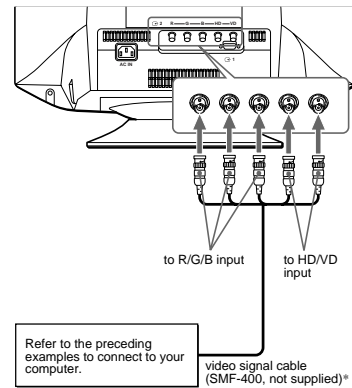
■ Connecting to a Macintosh or compatible computer

Use the supplied exclusive Power Mac G3/G4 adapter.



* Connect the supplied adapter to the computer before connecting the cable. This adapter is compatible only with Power Mac G3/G4 computers that have 3 rows of pins. If you connect to the other version of Macintosh series computer that has 2 rows of pins, you will need a different adapter (not supplied).

■ Connecting to the 5 BNC connectors



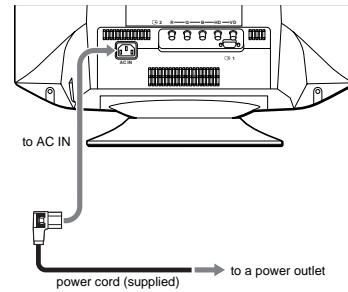
* Connect the cables from left to right in the following order: Red-Green-Blue-HD-VD.

Note

Plug & Play (DDC) does not apply to the 5 BNC connectors. If you want to use Plug & Play, connect your computer to the connector using the supplied video signal cable.

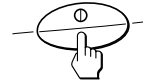
Step 2: Connect the power cord

With the monitor and computer switched off, first connect the power cord to the monitor, then connect it to a power outlet.



Step 3: Turn on the monitor and computer

First turn on the monitor, then turn on the computer.



The installation of your monitor is complete. If necessary, use the monitor's controls to adjust the picture.

If no picture appears on your screen

- Check that the monitor is correctly connected to the computer.
- If NO SIGNAL appears on the screen, try changing the input signal (page 9), and confirm that your computer's graphics board is completely seated in the correct bus slot.
- If you are replacing an old monitor with this model and OUT OF SCAN RANGE appears on the screen, reconnect the old monitor. Then adjust the computer's graphics board so that the horizontal frequency is between 30 – 130 kHz (CPD-G520), 30 – 110 kHz (CPD-G420) and the vertical frequency is between 48 – 170 Hz.

For more information about the on-screen messages, see "Trouble symptoms and remedies" on page 20.

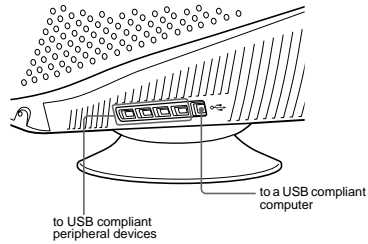
Setup on various OS (Operating System)

This monitor complies with the "DDC" Plug & Play standard and automatically detects all the monitor's information. No specific driver needs to be installed to the computer.

If you connect the monitor to your PC, and then boot your PC for the first time, the setup Wizard may be displayed on the screen. Click on "Next" several times according to the instructions from the Wizard until the Plug & Play Monitor is automatically selected so that you can use this monitor.

Connecting Universal Serial Bus (USB) compliant peripherals

Your monitor has one upstream and four downstream USB connectors. They provide a fast and easy way to connect USB compliant peripheral devices (such as keyboards, mice, printers and scanners) to your computer using a standardized USB cable. To use your monitor as a hub for your peripheral devices, connect the USBs as illustrated below.



- 1 Turn on the monitor and computer.
- 2 Connect your computer to the square upstream connector using the supplied USB cable.

For customers using Windows

If a message appears on your screen, follow the on-screen instructions and select Generic USB Hub as the default setting.

- 3 Connect your USB compliant peripheral devices to the rectangular downstream USB connectors.

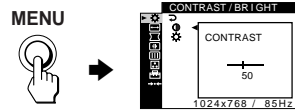
Notes

- Not all computers and/or operating systems support USB configurations. Check your computer's instruction manual to see if you can connect USB devices.
- In most cases, USB driver software needs to be installed on the host computer. Refer to the peripheral device's instruction manual for further details.
- The monitor functions as a USB hub as long as the monitor is either "on" or in power saving mode.
- If you connect a keyboard or mouse to the USB connectors and then boot your computer for the first time, the peripheral devices may not function. First connect the keyboard and mouse directly to the computer and set up the USB compliant devices. Then connect them to this monitor.

Selecting the on-screen menu language (LANGUAGE)

English, French, German, Spanish, Italian, Dutch, Swedish, Russian and Japanese versions of the on-screen menus are available. The default setting is English.

- 1 Press the MENU button.
The menu appears on the screen.



- 2 Move the control button up or down to highlight **OPTION** and press the control button.



- 3 Move the control button up or down to highlight **LANGUAGE** and press the control button.



- 4 Move the control button up or down until the desired language appears on the screen. Then press the control button to select the language.

Each time you move the control button up or down, the language can be selected appears cyclically.

- ENGLISH
- FRANÇAIS: French
- DEUTSCH: German
- ESPAÑOL: Spanish
- ITALIANO: Italian
- NEDERLANDS: Dutch
- SVENSKA: Swedish
- РУССКИЙ: Russian
- 日本語: Japanese

To close the menu

Press the MENU button. If no buttons are pressed, the menu closes automatically after about 45 seconds.

To reset to English

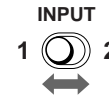
Select ENGLISH in step 4 above.

Selecting the input signal

You can connect two computers to this monitor using the video input 1 (HD15) and video input 2 (BNC) connectors. To select one of the two computers, use the INPUT switch.

Move the INPUT switch.

The selected connector appears on the screen for 3 seconds.



"INPUT 1": HD15 or "INPUT 2": BNC appears on the screen.

Note

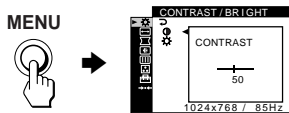
If no signal is input to the selected connector, NO SIGNAL appears on the screen. After a few seconds, the monitor enters the power saving mode. If this happens, switch to the other connector.

Customizing Your Monitor

You can make numerous adjustments to your monitor using the on-screen menu.

Navigating the menu

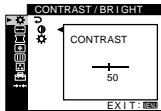
Press the MENU button to display the menu on the screen. See page 11 for more information on using the MENU and control buttons.



Use the control button to select one of the following menus.

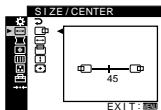
1 CONTRAST/BRIGHT (page 12)

Adjusts the contrast and brightness. You can also call up this menu directly by moving the control button up or down while there is no menu on the screen.



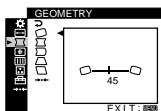
2 SIZE/CENTER (page 12)

Adjusts the size or centering.



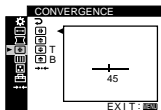
3 GEOMETRY (page 13)

Adjusts the rotation and shape of the picture.



4 CONVERGENCE (page 14)

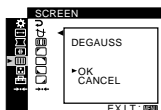
Adjusts the picture's horizontal and vertical convergence.



5 SCREEN (page 14)

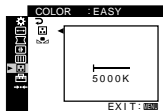
Adjusts the picture's quality. The options include:

- degaussing the screen (DEGAUSS)
- adjusting the moire cancellation (CANCEL MOIRE)
- adjusting the landing (LANDING)(CPD-G520 only)



6 COLOR (page 15)

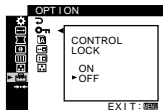
Adjusts the picture's color temperature to match the monitor's colors to a printed picture's colors.



7 OPTION (page 17)

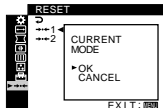
Adjusts the monitor's options. The options include:

- locking the controls
- changing the on-screen menu's language
- changing the on-screen menu position
- changing the picture's color temperature setting mode



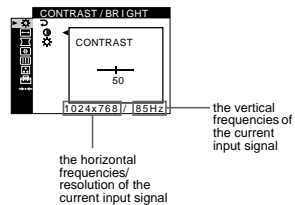
8 RESET (page 18)

Resets the adjustments.



■ Displaying the current input signal

When you press the MENU button to display the menu, the horizontal/vertical frequencies of the current input signal are displayed in the menu. If the signal matches one of this monitor's factory preset modes, the resolution is also displayed.



■ Using the MENU and control buttons

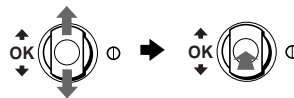
1 Display the menu.

Press the MENU button to display the menu on the screen.



2 Select the menu you want to adjust.

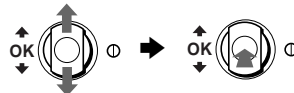
Highlight the desired menu by moving the control button up or down. Then press the control button.



3 Adjust the menu.

Move the control button up or down to make the adjustment and press the control button.

If you want to select another menu; move the control button up or down to select and press the control button to exit the menu.



4 Close the menu.

Press the MENU button. If no buttons are pressed, the menu closes automatically after about 45 seconds.



Adjusting the picture quality (PICTURE EFFECT)

Press the PICTURE EFFECT button.

Each time you press the button, the three picture modes cyclically change as follows.








| Select | For |
|--------------|---|
| PROFESSIONAL | accurate and consistent display color. Choose this for professional desktop publishing and graphic applications. |
| STANDARD | images with high contrast and brightness. Choose this mode for commonly used applications, such as spreadsheets, word processing, E-mail, or WEB surfing. |
| DYNAMIC | extremely vivid and photo-realistic images. Brighter than "STANDARD" mode, choose this for intense graphic applications such as games, DVD playback, or entertainment software. |



US

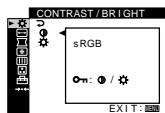
Adjusting the brightness and contrast (CONTRAST/BRIGHT)





These settings are stored in memory for the signals from the currently selected input connector.

- 1 **Press the MENU button.**
The menu appears on the screen.
- 2 **Move the control button up or down to highlight . Then press the control button.**
The CONTRAST/BRIGHT menu appears on the screen.
- 3 **Move the control button up or down to highlight  or . Then press the control button.**
- 4 **Move the control button up or down to adjust the contrast () or brightness (). Then press the control button.**

If you are using the sRGB mode

If you selected the sRGB mode in the COLOR MODE () of the OPTION () menu, the following CONTRAST/BRIGHT menu appears on the screen.






You cannot adjust the contrast () or brightness () on this screen. If you want to adjust them, select a mode other than sRGB in the COLOR MODE () of the OPTION () menu.

For more information about using the sRGB mode, see "Adjusting the color of the picture (COLOR)" on page 15.




Adjusting the centering of the picture (SIZE/CENTER)

This setting is stored in memory for the current input signal.

- 1 **Press the MENU button.**
The menu appears on the screen.
- 2 **Move the control button up or down to highlight  and press the control button.**
The SIZE/CENTER menu appears on the screen.
- 3 **Move the control button up or down to select  for horizontal adjustment, or  for vertical adjustment. Then press the control button.**
- 4 **Move the control button up or down to adjust the centering.**



Adjusting the size of the picture (SIZE/CENTER)

This setting is stored in memory for the current input signal.

- 1 **Press the MENU button.**
The menu appears on the screen.
- 2 **Move the control button up or down to highlight  and press the control button.**
The SIZE/CENTER menu appears on the screen.
- 3 **Move the control button up or down to select  for horizontal adjustment, or  for vertical adjustment. Then press the control button.**
- 4 **Move the control button up or down to adjust the size.**

Automatically sizing and centering the picture (AUTO)

You can easily adjust the picture to fill the screen by using the SIZE/CENTER menu.

- 1 **Press the MENU button.**
The menu appears on the screen.
- 2 **Move the control button up or down to highlight  and press the control button.**
The SIZE/CENTER menu appears on the screen.
- 3 **Move the control button up or down to select  (AUTO). Then press the control button.**
The adjustment window appears on the screen.
- 4 **Move the control button up or down to select OK. Then press the control button.**
The picture automatically fills the screen.





Notes






- If you do not want to use the AUTO function, select CANCEL in step 4.
- 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 displayed image moves for a few seconds while this function is performed. This is not a malfunction.

Adjusting the shape of the picture (GEOMETRY)

The GEOMETRY settings allow you to adjust the rotation and shape of the picture.

The  (rotation) setting is stored in memory for all input signals. All other settings are stored in memory for the current input signal.

- 1 **Press the MENU button.**
The menu appears on the screen.
- 2 **Move the control button up or down to highlight  GEOMETRY and press the control button.**
The GEOMETRY menu appears on the screen.
- 3 **Move the control button up or down to select the desired adjustment item. Then press the control button.**
The adjustment bar appears on the screen.
- 4 **Move the control button up or down to make the adjustment. Then press the control button.**


| Select | To |
|---|--|
|  | rotate the picture |
|  | expand or contract the picture sides |
|  | shift the picture sides to the left or right |
|  | adjust the picture width at the top of the screen |
|  | shift the picture to the left or right at the top of the screen |
| *** | reset all the GEOMETRY adjustments to the factory setting levels. Select OK. |





For more information about using the RESET mode, see "Resetting the adjustments (RESET)" on page 18.

Adjusting the convergence (CONVERGENCE)

The CONVERGENCE settings allow you to adjust the quality of the picture by controlling the convergence. The convergence refers to the alignment of the red, green, and blue color signals. If you see red or blue shadows around letters or lines, adjust the convergence.

These settings are stored in memory for all input signals.

- 1 **Press the MENU button.**
The menu appears on the screen.
- 2 **Move the control button up or down to highlight  CONVERGENCE and press the control button.**
The CONVERGENCE menu appears on the screen.
- 3 **Move the control button up or down to select the desired adjustment item. Then press the control button.**
The adjustment bar appears on the screen.
- 4 **Move the control button up or down to make the adjustment. Then press the control button.**

| Select | To |
|---|---|
|  | horizontally shift red or blue shadows |
|  | vertically shift red or blue shadows |
|  T TOP | vertically shift red or blue shadows at the top of the screen |
|  B BOTTOM | vertically shift red or blue shadows at the bottom of the screen |
| RESET | reset all the CONVERGENCE adjustments to the factory setting levels. Select OK. |


For more information about using the RESET mode, see "Resetting the adjustments (RESET)" on page 18.







Adjusting the picture quality (SCREEN)

The SCREEN settings allow you to degauss (demagnetize) the monitor manually and adjust the picture quality by controlling the moire and landing.

- If the color is not uniform or picture is fuzzy, degauss the monitor (DEGAUSS).
 - If elliptical or wavy patterns appear on the screen, cancel the moire (CANCEL MOIRE).
 - If the color is irregular at the corners of the screen, adjust the landing (LANDING) (CPD-G520 only).
- The monitor is automatically demagnetized (degaussed) when the power is turned on.
The screen is degaussed for about 2 seconds. If a second degauss cycle is needed, allow a minimum interval of 20 minutes for the best result.

The CANCEL MOIRE setting is stored in memory for the current input signal. All other settings are stored in memory for all input signals.

- 1 **Press the MENU button.**
The menu appears on the screen.
- 2 **Move the control button up or down to highlight  SCREEN and press the control button.**
The SCREEN menu appears on the screen.
- 3 **Move the control button up or down to select the desired adjustment item. Then press the control button.**
The adjustment bar appears on the screen.
- 4 **Move the control button up or down to make the adjustment. Then press the control button.**

| Select | To |
|---|--|
|  DEGAUSS | degauss the monitor. To degauss the monitor manually, select OK. |
|  CANCEL MOIRE | adjust the degree of moire cancellation until the moire* is at a minimum |
|  LANDING** | reduce any color irregularities in the screen's top left corner to a minimum |
|  LANDING** | reduce any color irregularities in the screen's top right corner to a minimum |
|  LANDING** | reduce any color irregularities in the screen's bottom left corner to a minimum |
|  LANDING** | reduce any color irregularities in the screen's bottom right corner to a minimum |
| RESET** | reset all the SCREEN adjustments to the factory setting levels. Select OK. |

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

** The LANDING and RESET functions are for CPD-G520 only.

Example of moire



Note



The picture may become fuzzy when the CANCEL MOIRE function is activated.



Adjusting the color of the picture (COLOR)

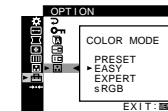
The COLOR settings allow you to adjust the picture's color temperature by changing the color level of the white color field. Colors appear reddish if the temperature is low, and bluish if the temperature is high. This adjustment is useful for matching the monitor's color to a printed picture's colors. You can set the color temperature for each of the video input connectors.

■ Select the COLOR mode

There are 4 types of adjustment modes, EASY, PRESET, EXPERT, and sRGB. The default setting is EASY which can be adjustable from 5000K to 11000K.



If you want to set another mode (other than EASY), select the desired mode in the OPTION () menu. Then adjust the selected mode in each COLOR () menu.

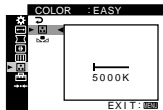
- 1 **Press the MENU button.**
The menu appears on the screen.
- 2 **Move the control button up or down to highlight  OPTION and press the control button.**
The OPTION menu appears on the screen.
- 3 **Move the control button up or down to highlight  COLOR MODE. Then press the control button.**
- 4 **Move the control button up or down to select the COLOR mode.**



US



■ EASY mode

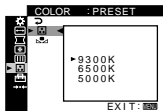
- 1 Press the MENU button.
The menu appears on the screen.
- 2 Move the control button up or down to highlight  COLOR and press the control button.
The COLOR menu appears on the screen.
- 3 Move the control button up or down to highlight  . Then press the control button.
The adjustment bar appears.



- 4 Move the control button up or down to fine tune the color temperature.
The new color temperature setting you fine tuned between 5000K to 11000K is stored in memory.

■ PRESET mode


- 1 Press the MENU button.
The menu appears on the screen.
- 2 Move the control button up or down to highlight  COLOR and press the control button.
The COLOR menu appears on the screen.
- 3 Move the control button up or down to highlight  . Then press the control button.
The adjustment bar appears.

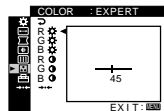



- 4 Move the control button up or down to select the desired temperature.
The preset color temperatures are 5000K, 6500K, and 9300K. Since the default setting is 9300K, the whites will change from a bluish hue to a reddish hue as the temperature is lowered to 6500K and 5000K.

■ EXPERT mode



You can make additional adjustments to the color in greater detail by selecting the EXPERT mode.

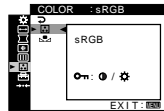
- 1 Press the MENU button.
The menu appears on the screen.
- 2 Move the control button up or down to highlight  COLOR and press the control button.
The COLOR menu appears on the screen.



- 3 Move the control button up or down to adjust the R (red), G (green), and B (blue) component of input signal for each of GAIN (●) and BIAS (○). Then press the control button.
If you want to reset the EXPERT adjustments, select  (RESET) in COLOR menu. Then select OK in the RESET window.

■ sRGB mode

The sRGB color setting is an industry standard color space protocol designed to correlate the displayed and printed colors of sRGB compliant computer products. To adjust the colors to the sRGB profile, simply select the sRGB mode in the COLOR MODE () menu of the OPTION () menu. However, in order to display the sRGB colors correctly ($\gamma = 2.2$, 6500K), you must set the PICTURE EFFECT mode to PROFESSIONAL (page 11) and your computer to the sRGB profile. If you select this mode, you cannot operate the CONTRAST/BRIGHT menu adjustments.





Note

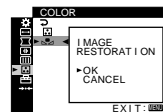
Your computer and other connected products (such as a printer), must be sRGB compliant.

Restoring the color from the EASY, PRESET, or sRGB modes (IMAGE RESTORATION)

The colors of most display monitors tend to gradually change brilliance over several years of service. The IMAGE RESTORATION feature found in the EASY, PRESET, and sRGB modes allows you to restore the color to the original factory quality levels. The explanation below explains how to restore the monitor's color from the EASY mode for example.

First, select the EASY, PRESET, or sRGB mode in the OPTION menu (page 15).

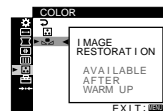
- 1 Press the MENU button.
The menu appears on the screen.
- 2 Move the control button up or down to highlight  COLOR and press the control button.
The COLOR menu appears on the screen.
- 3 Move the control button up or down to highlight  IMAGE RESTORATION. Then press the control button.
- 4 Move the control button up or down to select OK. Then press the control button.



The picture disappears while the color is being restored (about 2 seconds). After the color is restored, the picture reappears on the screen again.

Notes


- Before using this feature, the monitor must be in normal operation mode (green power indicator on) for at least 30 minutes. If the monitor goes into power saving mode, you must return the monitor to normal operation mode and wait for 30 minutes for the monitor to be ready. You may need to adjust your computer's power saving settings to keep the monitor in normal operation mode for the full 30 minutes. If the monitor is not ready, the following message will appear.








- The monitor may gradually lose its ability to perform this function due to the natural aging of the picture tube.

Additional settings (OPTION)


You can lock the controls, change the on-screen language, change the menu position, and set the COLOR mode.

- 1 Press the MENU button.
The menu appears on the screen.
- 2 Move the control button up or down to highlight  OPTION and press the control button.
The OPTION menu appears on the screen.
- 3 Move the control button up or down to select the desired adjustment item.
Adjust the selected item according to the following instructions.

■ Locking the controls (CONTROL LOCK)

You can protect the adjustment data by locking the controls. Move the control button up or down to highlight  (CONTROL LOCK) and press the control button. Then move the control button up or down to select ON and press the control button. Only the  (power) switch, MENU button, INPUT switch, and  (CONTROL LOCK) of the  OPTION menu will operate. If any other items are selected, the  mark appears on the screen.

To cancel the control lock



Repeat the procedure above and set  (CONTROL LOCK) to OFF.

■ Changing the on-screen language (LANGUAGE)

See page 8.

■ Changing the menu's position (OSD POSITION)

Change the menu's position if it is blocking an image on the screen.

Move the control button up or down to select  (OSD POSITION) for horizontal adjustment, or  (OSD POSITION) for vertical adjustment and press the control button. Then move the control button up or down to shift the on-screen menu.

■ Setting the COLOR mode

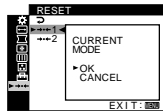
See page 15.

Resetting the adjustments (RESET)

This monitor has the following 2 reset methods.

■ Resetting all the adjustment data for the current input signal

- 1 Press the **MENU** button.
The menu appears on the screen.
- 2 Move the control button up or down to highlight **→→→ RESET** and press the control button.
- 3 Move the control button up or down to select **→→→1** and press the control button.
- 4 Move the control button up or down to select **OK** and press the control button.



Note that the following items are not reset by this method:

- on-screen menu language (page 8)
- color mode setting in the OPTION menu (EASY, PRESET, EXPERT, sRGB) (page 15)
- color temperature setting in the PRESET mode (5000K, 6500K, 9300K) (page 16)
- on-screen menu position (page 17)

■ Resetting all of the adjustment data for all input signals

Select **→→→2** in step 3 above.

Note

The RESET function does not function when **CL** (CONTROL LOCK) is set to ON.

Technical Features

Preset and user modes

When the monitor receives an input signal, it automatically matches the signal to one of the factory preset modes stored in the monitor's memory to provide a high quality picture at the center of the screen. (See Appendix for a list of the factory preset modes.) For input signals that do not match one of this monitor ensures that a clear picture appears on the screen for any timing in the monitor's frequency range (horizontal: 30 – 130 kHz (CPD-G520), 30 – 110 kHz (CPD-G420), vertical: 48 – 170 Hz). If the picture is adjusted, the adjustment data is stored as a user mode and automatically recalled whenever the same input signal is received.

Note for Windows users

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

Power saving function

This monitor meets the power-saving guidelines set by VESA, ENERGY STAR, and NUTEK. If no signal is input to the monitor from your computer, the monitor will automatically reduce power consumption as shown below.

| Power mode | Power consumption* | (power) indicator |
|------------------|--|-------------------|
| normal operation | ≤ 135 W (CPD-G520) ≤ 130 W (CPD-G420) | green |
| active off** | ≤ 3 W | orange |
| (deep sleep)*** | | |
| power off | Approx. 0 W | off |

* Figures reflect power consumption when no USB compatible peripherals are connected to the monitor.

** When your computer enters power saving mode, the input signal is cut and NO SIGNAL appears on the screen before the monitor enters active off mode. After a few seconds, the monitor enters power saving mode.

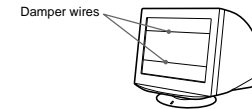
*** "Deep sleep" is power saving mode defined by the Environmental Protection Agency.

Troubleshooting

Before contacting technical support, refer to this section.

If thin lines appear on your screen (damper wires)

The visible lines on your screen especially when the background screen color is light (usually white), are normal for the Trinitron monitor. This is not a malfunction. These are shadows from the damper wires used to stabilize the aperture grille. The aperture grille is the essential element that makes a Trinitron picture tube unique by allowing more light to reach the screen, resulting in a brighter, more detailed picture.

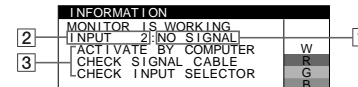


On-screen messages

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

If NO SIGNAL appears on section 1

This indicates that no signal is input from the selected connector.



2 The selected connector

This message shows the currently selected connector (INPUT 1 or INPUT 2).

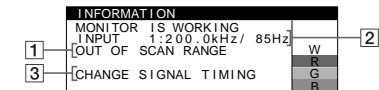
3 The remedies

The following messages appear on the screen.

- If **ACTIVATE BY COMPUTER** appears on the screen, try pressing any key on the computer or moving the mouse, and confirm that your computer's graphics board is completely seated in the correct bus slot.
- If **CHECK SIGNAL CABLE** appears on the screen, check that the monitor is correctly connected to the computer (page 6).
- If **CHECK INPUT SELECTOR** appears on the screen, try changing the input signal (page 9).

If OUT OF SCAN RANGE appears on line 1

This indicates that the input signal is not supported by the monitor's specifications.



2 The selected connector and the frequencies of the current input signal

This message shows the currently selected connector (INPUT 1 or INPUT 2). If the monitor recognizes the frequencies of the current input signal, the horizontal and vertical frequencies are also displayed.

3 The remedies

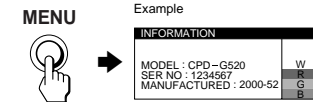
CHANGE SIGNAL TIMING appears on the screen. If you are replacing an old monitor with this monitor, reconnect the old monitor. Then adjust the computer's graphics board so that the horizontal frequency is between 30 – 130 kHz (CPD-G520), 30 – 110 kHz (CPD-G420), and the vertical frequency is between 48 – 170 Hz.

For more information, see "Trouble symptoms and remedies" on page 20.

US

Displaying this monitor's name, serial number, and date of manufacture.

While the monitor is receiving a video signal, press and hold the **MENU** button for more than 5 seconds to display this monitor's information box.









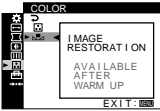

If the problem persists, call your authorized Sony dealer and give the following information.

- Model name: CPD-G520 or CPD-G420
- Serial number
- Name and specifications of your computer and graphics board.

Trouble symptoms and remedies

If the problem is caused by the connected computer or other equipment, please refer to the connected equipment's instruction manual. Use the self-diagnosis function (page 22) if the following recommendations do not resolve the problem.



| Symptom | Check these items |
|---|---|
| No picture | |
| If the  (power) 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 SIGNAL message appears on the screen, or if the  (power) indicator is orange | <ul style="list-style-type: none"> Check that the video signal cable is properly connected and all plugs are firmly seated in their sockets (page 6). Check that the INPUT switch setting is correct (page 9). Check that the video input connector's pins are not bent or pushed in. <p>■ Problems caused by the connected computer or other equipment</p> <ul style="list-style-type: none"> The computer is in power saving mode. Try pressing any key on the keyboard or moving the mouse. Check that the computer's power is "on." Check that the graphic board is completely seated in the proper bus slot. |
| If the OUT OF SCAN RANGE message appears on the screen | <p>■ Problems caused by the connected computer or other equipment</p> <ul style="list-style-type: none"> Check that the video frequency range is within that specified for the monitor. If you replaced an old monitor with this monitor, reconnect the old monitor and adjust the frequency range to the following. Horizontal: 30 – 130 kHz (CPD-G520), 30 – 110 kHz (CPD-G420) Vertical: 48 – 170 Hz |
| If no message is displayed and the  (power) indicator is green or flashing orange | <ul style="list-style-type: none"> Use the Self-diagnosis function (page 22). |
| If using a Macintosh system | <ul style="list-style-type: none"> When connecting to a Power Mac G3/G4 that has 3 rows of pins, check that the supplied exclusive Power Mac G3/G4 adapter and the video signal cable are properly connected (page 6). If you connect to the other version of Macintosh series computer that has 2 rows of pins, you will need a different adapter (not supplied). |
| Picture flickers, bounces, oscillates, or is scrambled | <ul style="list-style-type: none"> Isolate and eliminate any potential sources of electric or magnetic fields such as other monitors, laser printers, fluorescent lighting, televisions, or electric fans. Move the monitor away from power lines or place a magnetic shield near the monitor. Try plugging the monitor into a different AC outlet, preferably on a different circuit. Try turning the monitor 90° to the left or right. <p>■ Problems caused by the connected computer or other equipment</p> <ul style="list-style-type: none"> Check your graphics board manual for the proper monitor setting. Confirm that the graphics mode (VESA, Macintosh 21" Color, etc.) and the frequency of the input signal are supported by this monitor (Appendix). Even if the frequency is within the proper range, some graphics boards may have a sync pulse that is too narrow for the monitor to sync correctly. Adjust the computer's refresh rate (vertical frequency) to obtain the best possible picture. |
| Picture is fuzzy | <ul style="list-style-type: none"> Adjust the contrast and brightness (page 12). Degauss the monitor* (page 14). Adjust the degree of moire cancellation until the moire is minimal, or set CANCEL MOIRE to OFF (page 14). |

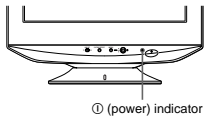
| Symptom | Check these items |
|---|---|
| Picture is ghosting | <ul style="list-style-type: none"> Eliminate the use of video cable extensions and/or video switch boxes. Check that all plugs are firmly seated in their sockets. |
| Picture is not centered or sized properly | <ul style="list-style-type: none"> Set the AUTO () function to OK (on) in the SIZE/CENTER menu (page 13). Adjust the size or centering (page 12). Note that with some input signals and/or graphics boards the periphery of the screen is not fully utilized. |
| Edges of the image are curved | <ul style="list-style-type: none"> Adjust the geometry (page 13). |
| Wavy or elliptical pattern (moire) is visible | <ul style="list-style-type: none"> Adjust the degree of moire cancellation until the moire is minimal (page 14). <p>■ Problems caused by the connected computer or other equipment</p> <ul style="list-style-type: none"> Change your desktop pattern. |
| Color is not uniform | <ul style="list-style-type: none"> Degauss the monitor* (page 14). If you place equipment that generates a magnetic field, such as a speaker, near the monitor, or if you change the direction the monitor faces, color may lose uniformity. Adjust the landing (page 14) (CPD-G520 only). |
| White does not look white | <ul style="list-style-type: none"> Adjust the color temperature (page 15). Check that the 5 BNC connectors are connected in the correct order (page 6). |
| Letters and lines show red or blue shadows at the edges | <ul style="list-style-type: none"> Adjust the convergence (page 14). |
| Monitor buttons do not operate ( appears on the screen) | <ul style="list-style-type: none"> If the control lock is set to ON, set it to OFF (page 17). |
| IMAGE RESTORATION function does not operate | <ul style="list-style-type: none"> Before using this function, the monitor must be in normal operation mode (green power indicator on) for at least 30 minutes. For more information on using the IMAGE RESTORATION function, see page 17. Adjust the computer's power saving settings to keep the monitor in normal operation mode for more than 30 minutes. The monitor may gradually lose its ability to perform this function due to the natural aging of the picture tube. |
|  | |
| USB peripherals do not function | <ul style="list-style-type: none"> Check that the appropriate USB connectors are securely connected (page 8). Check that the  (power) switch is in the "on" position. Then reconnect the USB cable to the monitor. <p>■ Problems caused by the connected computer or other equipment</p> <ul style="list-style-type: none"> Check that the power of any self-powered USB compliant peripheral devices is "on." Install the latest version of the device driver on your computer. Contact your device's manufacturer for information about the appropriate device driver. If your USB compliant keyboard or mouse does not function, connect them directly to your computer, reboot your computer, and make any necessary adjustments to the USB settings. Then reconnect the keyboard or mouse to the monitor. If you connect a keyboard or mouse to the USB connectors and then boot your computer for the first time, the peripheral devices may not function. |
| A hum is heard right after the power is turned on | <ul style="list-style-type: none"> This is the sound of the auto-degauss cycle. When the power is turned on, the monitor is automatically degaussed for a few seconds. |

* If a second degauss cycle is needed, allow a minimum interval of 20 minutes for the best result. A humming noise may be heard, but this is not a malfunction.


US

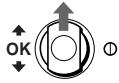
Self-diagnosis function

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  (power) indicator will either light up green or flash orange. If the  (power) indicator is lit in orange, the computer is in power saving mode. Try pressing any key on the keyboard or moving the mouse.



■ If the (power) indicator is green

- 1 **Disconnect any plugs from the video input 1 and 2 connectors, or turn off the connected computer(s).**
- 2 **Press the  (power) button twice to turn the monitor off and then on.**
- 3 **Hold the control button upward for 2 seconds before the monitor enters power saving mode.**






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 (power) indicator is flashing orange

Press the  (power) button twice to turn the monitor off and then on.

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

If the  (power) indicator is still flashing, there is a potential monitor failure. Count the number of seconds between orange flashes of the  (power) 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 graphic board.

Specifications

CPD-G520

| | |
|--------------------------|--|
| CRT | 0.24 mm aperture grille pitch 21 inches measured diagonally 90-degree deflection FD Trinitron |
| Viewable image size | Approx. 403.8 × 302.2 mm (w/h) (16 × 12 inches) 19.8" viewing image |
| Resolution | |
| Maximum | Horizontal: 2048 dots Vertical: 1536 lines |
| Recommended | Horizontal: 1600 dots Vertical: 1200 lines |
| Input signal levels | Video signal Analog RGB: 0.700 Vp-p (positive), 75 Ω SYNC signal H/V separate or composite sync: TTL 2 kΩ, Polarity free Sync on Green: 0.3 Vp-p (negative) |
| 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 130 kHz Vertical: 48 to 170 Hz |
| AC input voltage/current | 100 to 240 V, 50 – 60 Hz, 2.0 – 1.0 A |
| Power consumption | Approx. 135 W (with no USB devices connected) |
| Dimensions | Approx. 497 × 502 × 485 mm (w/h/d) (19 ⁷ / ₈ × 19 × 18 ⁷ / ₈ inches) |
| Mass | Approx. 30 kg (66 lb 2 oz) |
| Plug and Play | DDC2B/DDC2Bi, GTF** |
| Supplied accessories | See page 6 |

CPD-G420

| | |
|--------------------------|--|
| CRT | 0.24 mm aperture grille pitch 19 inches measured diagonally 90-degree deflection FD Trinitron |
| Viewable image size | Approx. 365 × 274 mm (w/h) (14 ³ / ₈ × 10 ⁷ / ₈ inches) 18.0" viewing image |
| Resolution | |
| Maximum | Horizontal: 1920 dots Vertical: 1440 lines |
| Recommended | Horizontal: 1280 dots Vertical: 1024 lines |
| Input signal levels | Video signal Analog RGB: 0.700 Vp-p (positive), 75 Ω SYNC signal H/V separate or composite sync: TTL 2 kΩ, Polarity free Sync on Green: 0.3 Vp-p (negative) |
| Standard image area | Approx. 352 × 264 mm (w/h) (13 ⁷ / ₈ × 10 ¹ / ₂ inches) or Approx. 330 × 264 mm (w/h) (13 × 10 ¹ / ₂ inches) |
| Deflection frequency* | Horizontal: 30 to 110 kHz Vertical: 48 to 170 Hz |
| AC input voltage/current | 100 to 240 V, 50 – 60 Hz, 2.0 – 1.0 A |
| Power consumption | Approx. 130 W (with no USB devices connected) |
| Dimensions | Approx. 451 × 471 × 461 mm (w/h/d) (17 ⁷ / ₈ × 18 ⁵ / ₈ × 18 ¹ / ₄ inches) |
| Mass | Approx. 25.5 kg (56 lb 3 oz) |
| Plug and Play | DDC2B/DDC2Bi, GTF** |
| Supplied accessories | See page 6 |

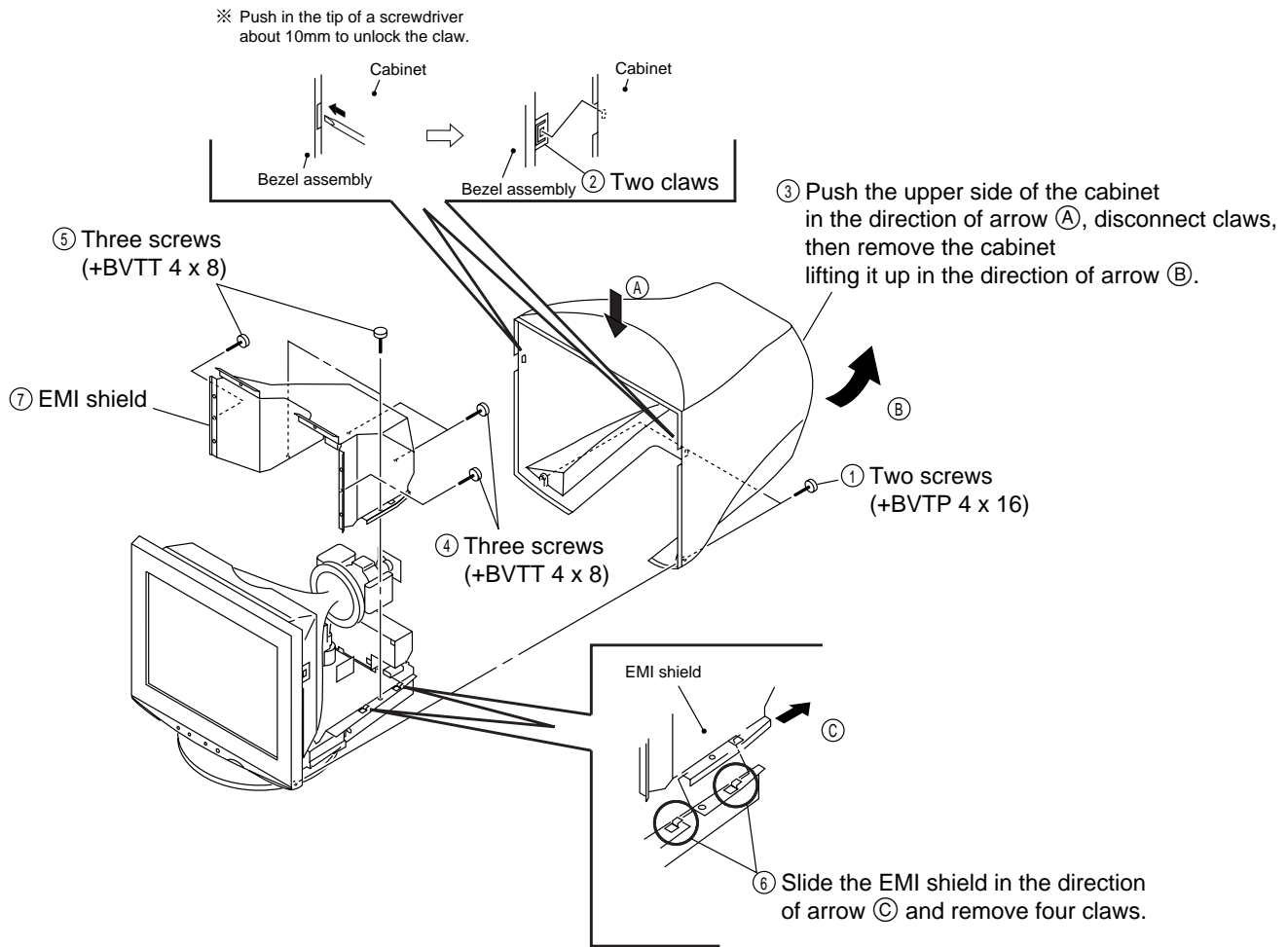
- * Recommended horizontal and vertical timing condition
- Horizontal sync width duty should be more than 4.8% of total horizontal time or 0.8 μs, whichever is larger.
 - Horizontal blanking width should be more than 2.3 μsec.
 - Vertical blanking width should be more than 450 μsec.
- ** If the input signal is Generalized Timing Formula (GTF) compliant, the GTF feature of the monitor will automatically provide an optimal image for the screen.

Design and specifications are subject to change without notice.

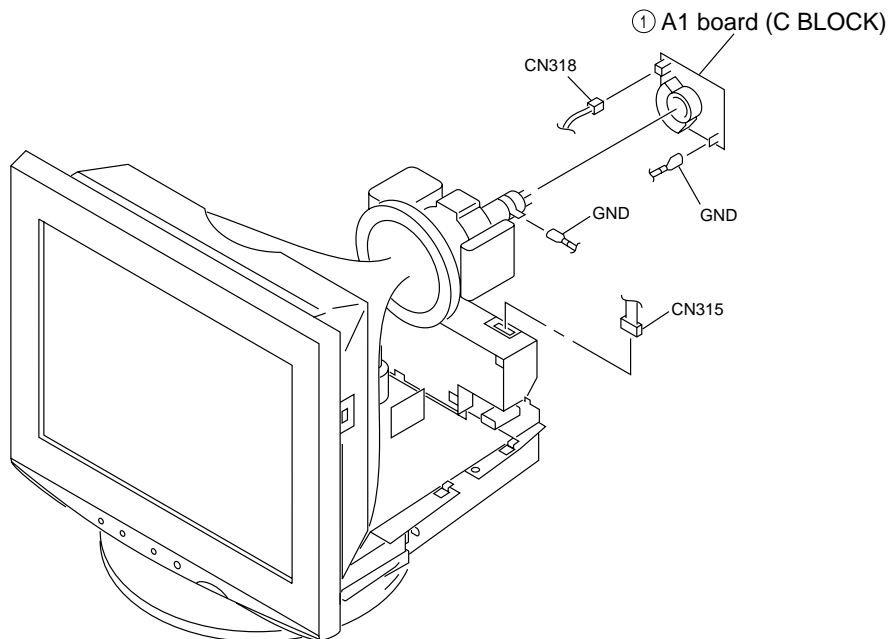
US

SECTION 2 DISASSEMBLY

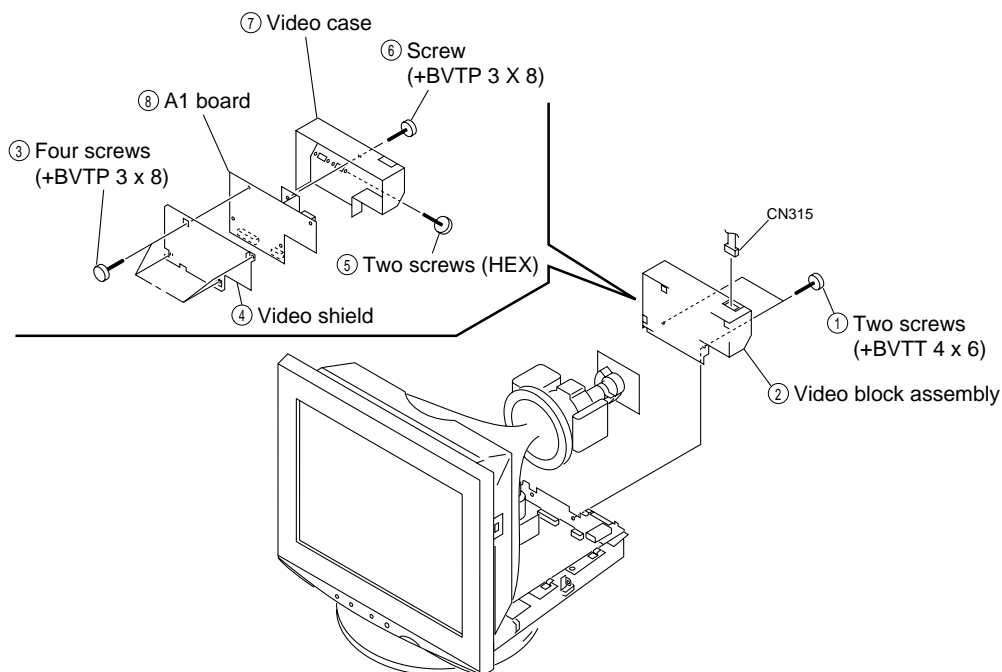
2-1. CABINET REMOVAL



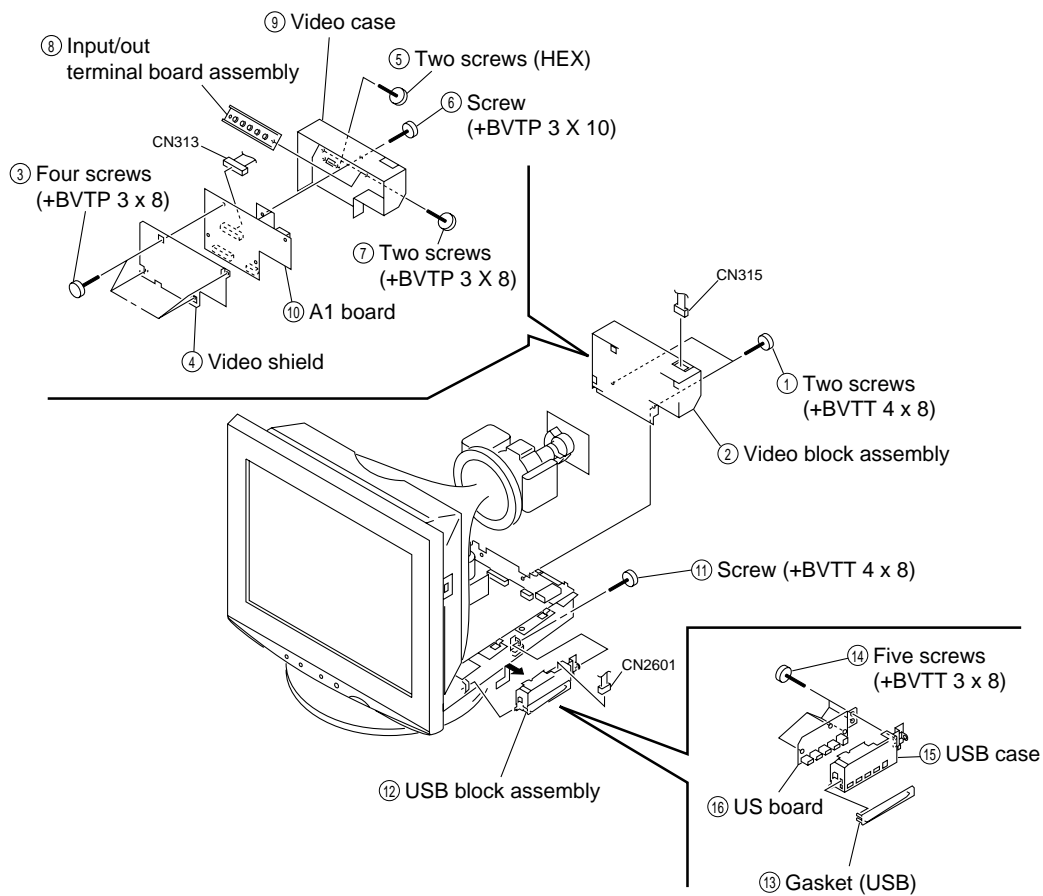
2-2. A1 BOARD (C BLOCK) REMOVAL



**2-3. A1 BOARD, US BOARD REMOVAL
[US MODEL]**

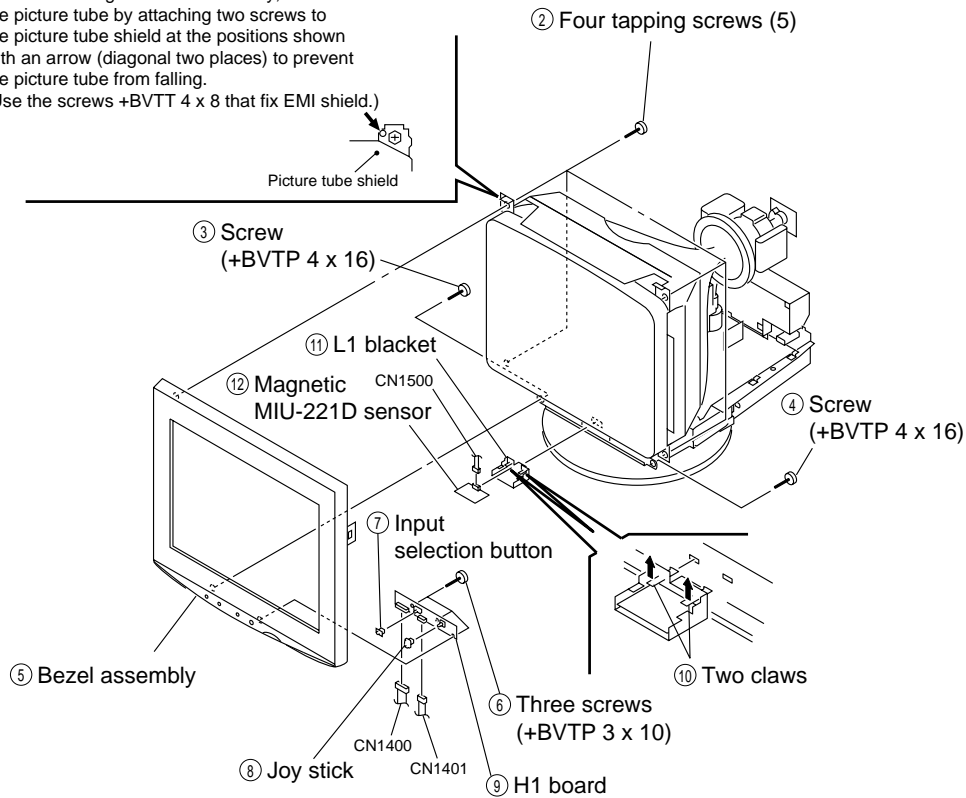


[NH, SH, EQ MODEL]

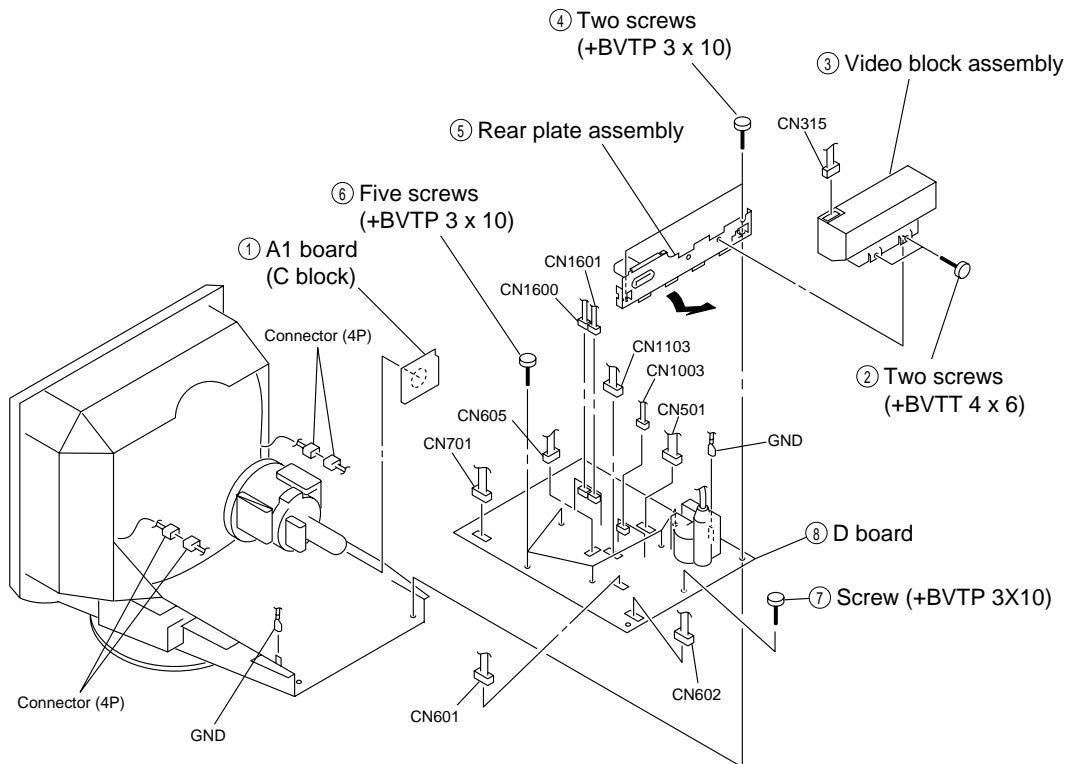


2-4. BEZEL ASSEMBLY, H1 BOARD, MAGNETIC SENSOR REMOVAL

- ① Before removing the bezel assembly, secure the picture tube by attaching two screws to the picture tube shield at the positions shown with an arrow (diagonal two places) to prevent the picture tube from falling.
(Use the screws +BVTT 4 x 8 that fix EMI shield.)

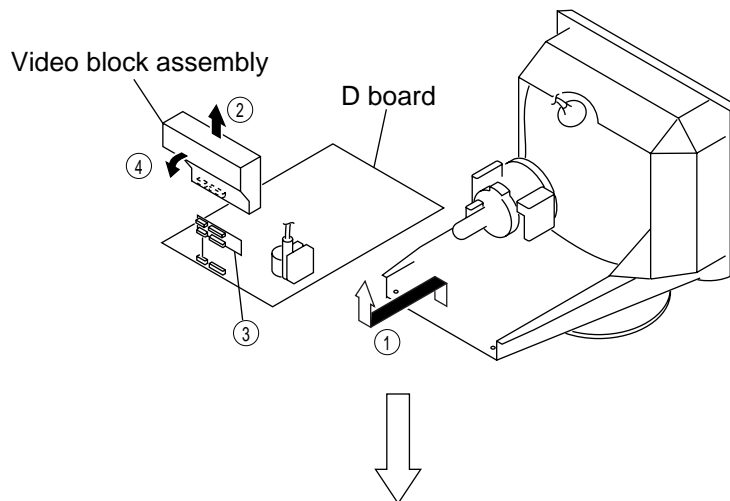


2-5. D BOARD REMOVAL

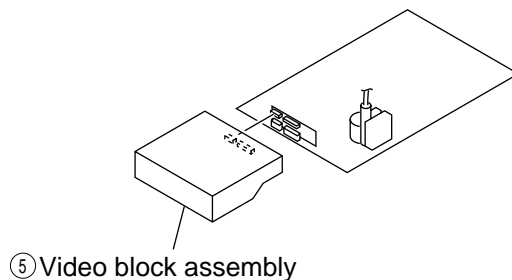


2-6. SERVICE POSITION

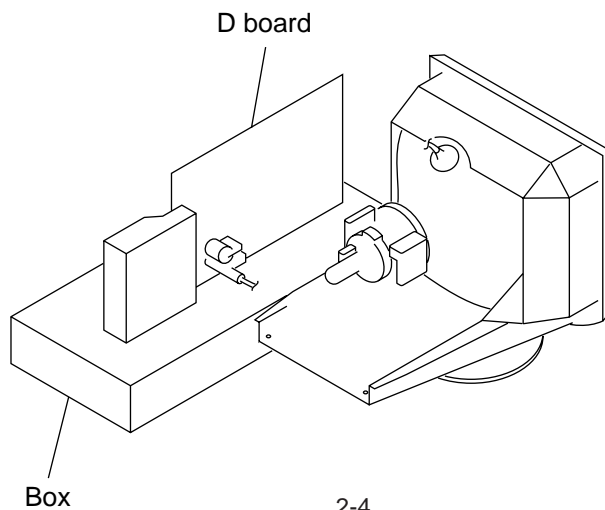
- ① Remove the D board.
- ② Remove the Video block assembly.
- ③ Install the Adaptor board (XT MOUNT) (A-1391-123-A).
- ④ Lay the Video block assembly.



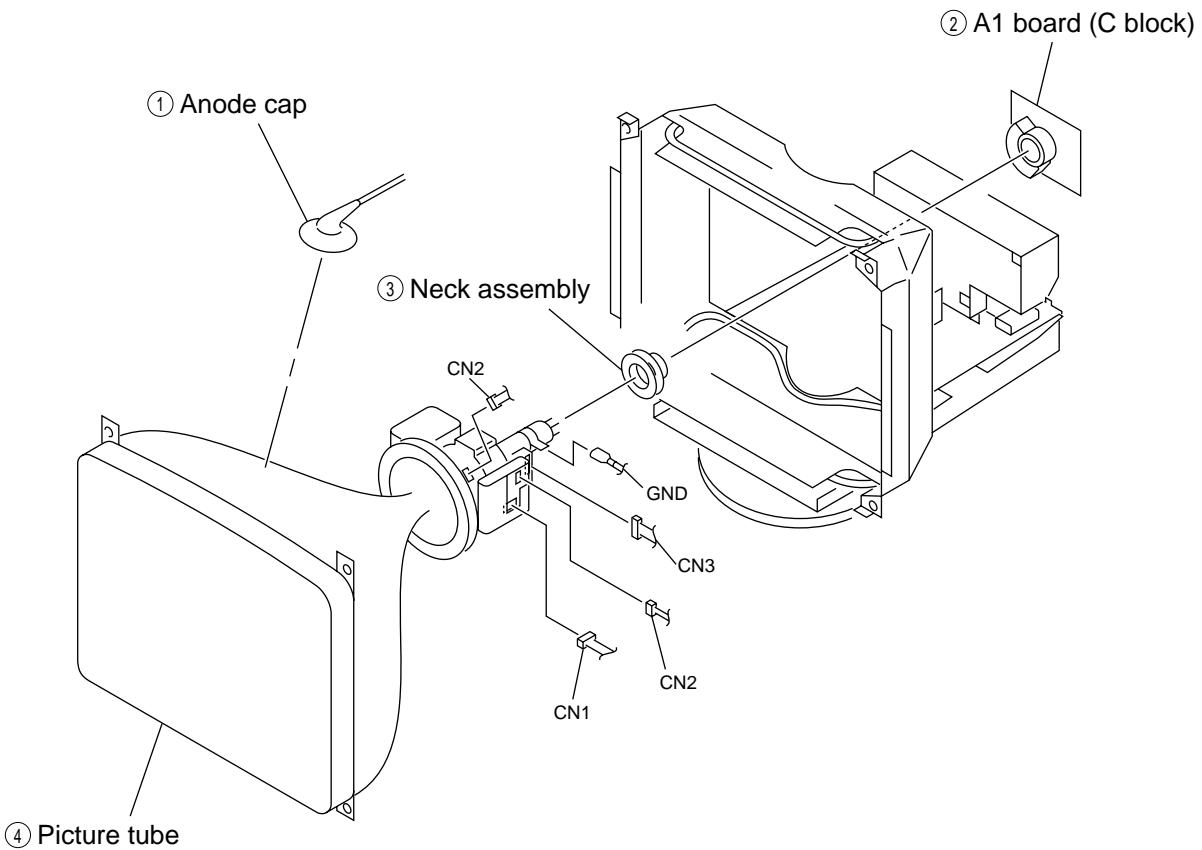
- ⑤ Install the video block assembly.



- ⑥ Put a box which is about 15cm in height under the D board to fix it.



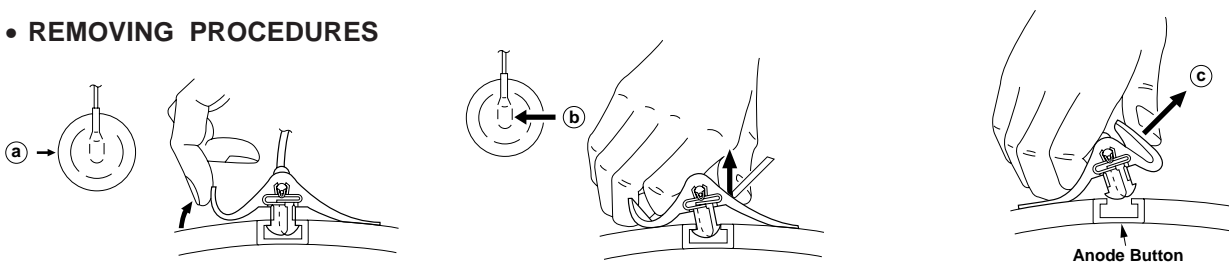
2-7. PICTURE TUBE REMOVAL



• 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.

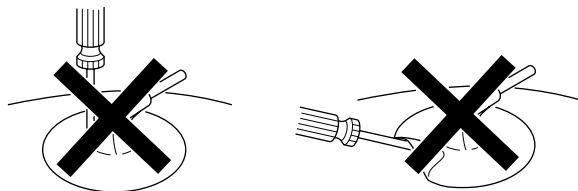
• REMOVING PROCEDURES



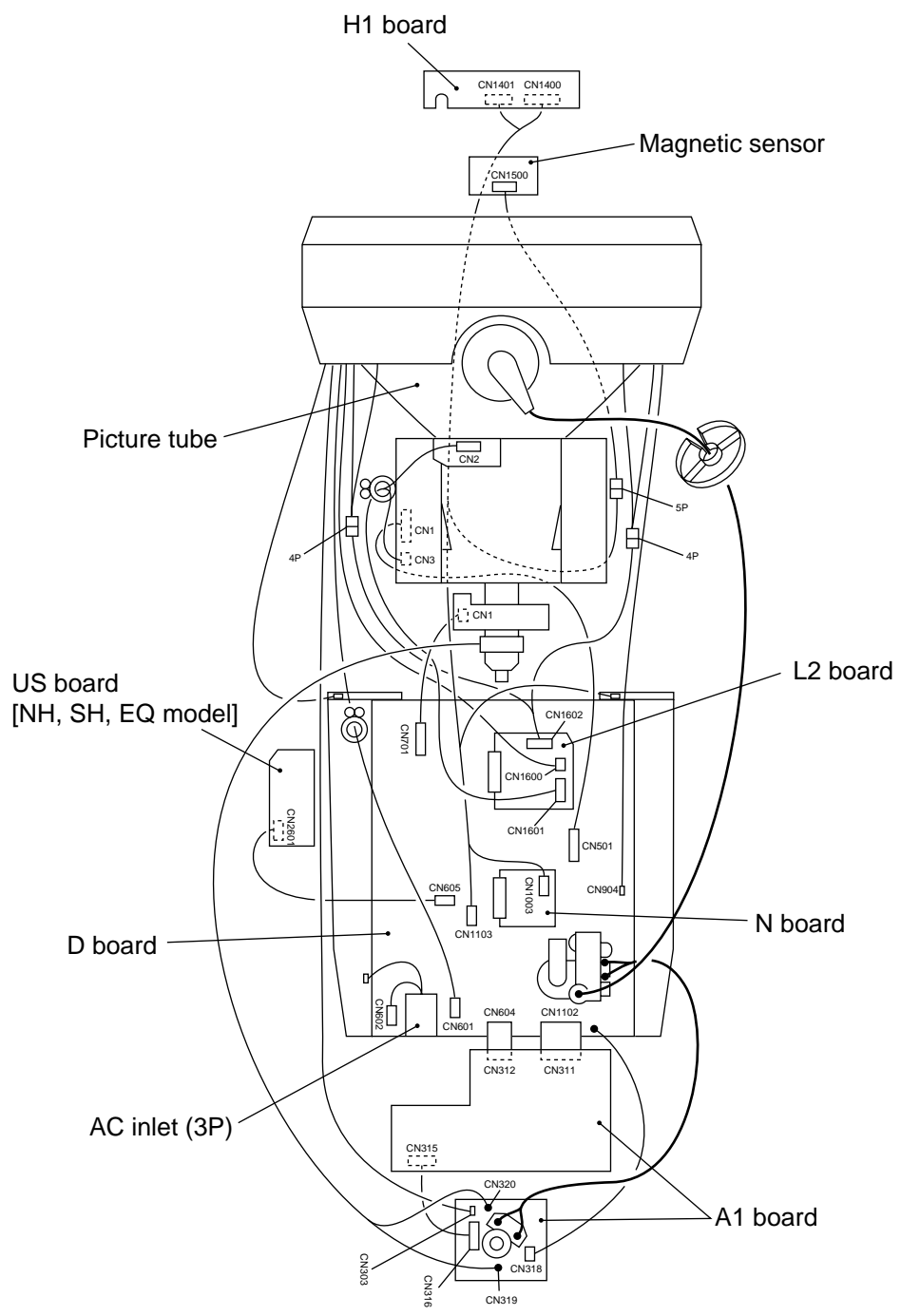
- ① Turn up one side of the rubber cap in the direction indicated by the arrow (a).
- ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow (b).
- ③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber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

• HOW TO HANDLE AN ANODE-CAP

- ① Don't scratch the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardy not to damage 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 damage the rubber.



2-8. HARNESS LOCATION



SECTION 3 SAFETY RELATED ADJUSTMENT

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

| | Part Replaced (☒) |
|--------|-------------------|
| HV ADJ | RV901 |

| | Part Replaced (☒) |
|--------------------------------------|--|
| HV Regulator Circuit Check | D Board C925, IC901, R901, R902, R905, R924, R925, R926, RV901, T901 (FBT) • Mounted D Board |
| HV Protector Circuit Check | D Board C920, C923, D911, D912, R903, R917, R918, R919, R920, R923, T901 (FBT) • Mounted D Board N Board IC1001, RB1001 • Mounted N Board |
| Beam Current Protector Circuit Check | D Board C930, D917, R921, R932, R933, R935, T901 (FBT) • Mounted D Board N Board IC1001, RB1001 • Mounted N Board |

* Confirm one minute after turning on the power.

a) HV Regulator Circuit Check

- 1) Turn the RV901 slowly, and adjustment so that high voltage is in the specified range.
[Specification]: 27.00 ± 0.05 kV
- 2) Check that the voltage of D912 cathode on the D board is 17.0 V or more.

b) HV Protector Circuit Check

- 1) Using external DC Power Supply, apply the voltage shown below between cathode of D912 and GND, and check that the RASTER disappears.
[Specification]: $19.95 + 0.00/- 0.05$ V

c) Beam Current Protector Circuit Check

- 1) Connect constant current source to a section between T901 (FBT) ⑩ pin and GND, and check that the RASTER disappears when the specified current flows to the ⑩ pin.
[Specification]: $2.12 + 0.00/- 0.01$ mA

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. Display all white pattern (or black dot pattern).
2. Set contrast to 255.
3. Display green plain pattern.
4. Side back DY and roughly adjust green plain pattern to be centered on the useful screen with Purity Magnet.

5. Adjust DY tilt.

Note: Set ROTATION to 128 and LCC_NS to 128 when adjusting DY tilt.

6. Lightly tighten the DY screw.

• Landing Fine Adjustment

Note: (1) After adjust W/B (9300k), measure the average of IK with all white video input, while CONTRAST is maximum and BRIGHTNESS is center. And adjustment shall be made so that the miss-landing become least after aging 2H with the IK 30% of measured value shown above.

(2) The magnetic field shall be BH = 0.

(3) When adjusting at other than BH = 0, calculate the shifted value from BH = 0.

1. Put the monitor in helmholz coil.
2. Set as follows;
LCC_SW = 0 (LCC Correction Current = 0)
FUNCTION_SW bit1 = (Auto Degauss = On)
CONTRAST = 255
3. Display green plain pattern.
4. Degauss the iron part of chassis with a hand degausser and degauss coil.
5. Degauss CRT face with a hand degausser again.
6. Input AC 230V to AC IN and turn the monitor off and on. Then auto-degauss works.
7. Reset FUNCTION_SW bit1 to 0 (auto-degauss = off)
8. Degauss CRT face with a hand degausser again.
9. Attach wobbling coil to the specified place on CRT neck.
10. Put on landing sensor to CRT face.
11. Set LCC_SW to 12.
12. With landing checker, adjust DY position, purity, DY center and landing of the 4 corners.
13. Read VX and VY value which are the read out of magnetic sensor, and write to "LCC_VX_REF" and "LCC_VY_REF".
14. Adjust landing by LCC_NS, LCC_LT, LCC_LB, LCC_RT, and LCC_RB. Adjustment of registers shall be limited within the following range.
LCC_NS: 128 ± 15
LCC_LT, LCC_LB, LCC_RT, and LCC_RB: 128 ± 40
Set LCC_SW to 13, and Perform Service Save.

<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 ± 3 | 0 ± 7.5 | 0 ± 3 |
| 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 | ± 6 | ± 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 |

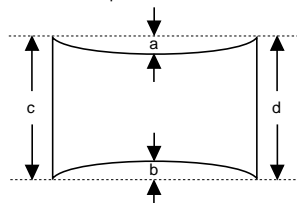
15. Tighten DY screw within specified torque, and auto-degauss.

Note: Torque 22 ± 2 kgcm (2.2 ± 0.2Nm)

16. Adjust the vertical angle of DY to make top and bottom pins equal (a = b). The horizontal angle shall not be changed (straight). Settle DY upright without leaning, and insert wedges firmly so that DY shall not move.

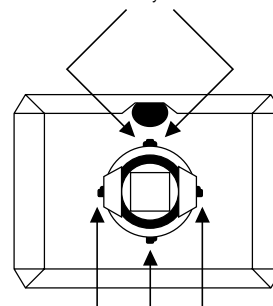
<How to place wedge>

Green plain crosshatch pattern



a and b should be equal.
c and d should be equal.

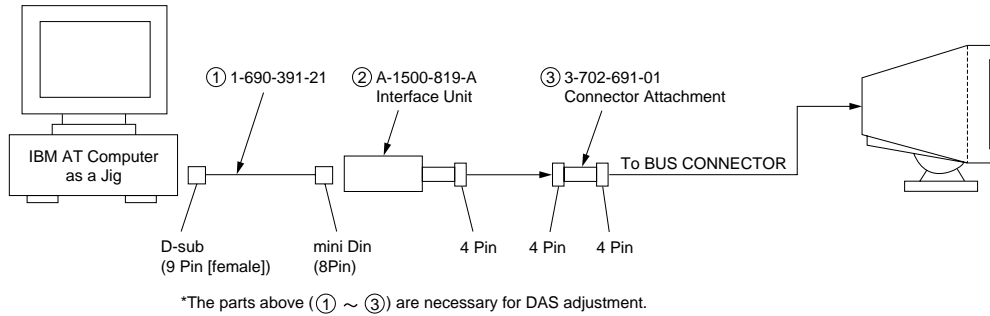
Plaster RTV to both sides for the upper wedge.
Make sure that they settle inside DY.



Plaster RTV to one side for other wedges.

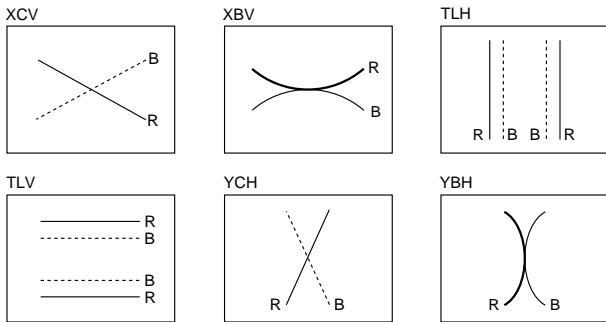
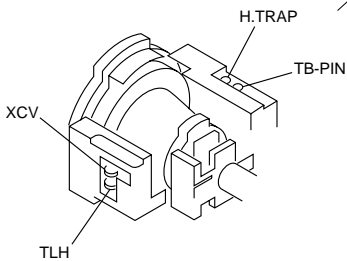
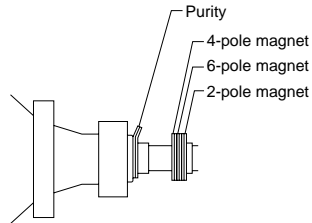
17. Adjust top and bottom pins correction VR.
18. Adjust the horizontal trapezoid distortion by DY horizontal trapezoid correction VR.
19. Check landing at each corner and in case not in specification, adjust landing of 4 corners with "LCC_NS", "LCC_LT", "LCC_LB", "LCC_RT", and "LCC_RB". The limitations of registers are shown below.
LCC_NS: 128 ± 15
LCC_LT, LCC_LB, LCC_RT, and LCC_RB: 128 ± 40
20. Remove the sensor and wobbling coil.
21. Switch signals to R, G, and B, and then check that the pure colors have good color purity.
22. Fix purity magnets with white paint.

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

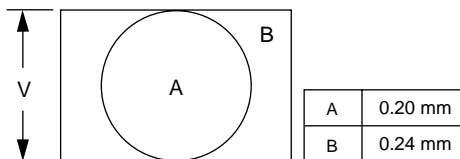


• Convergence Rough Adjustment

- (1) Display white crosshatch pattern.
- (2) Pile the convex parts of 6-pole magnet for convergence together.
- (3) Roughly adjust H.CONV and V.CONV with 4-pole magnet.



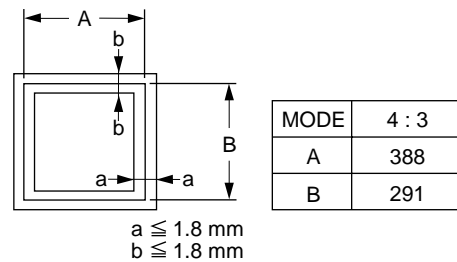
• Convergence Specification



• White Balance Adjustment Specification

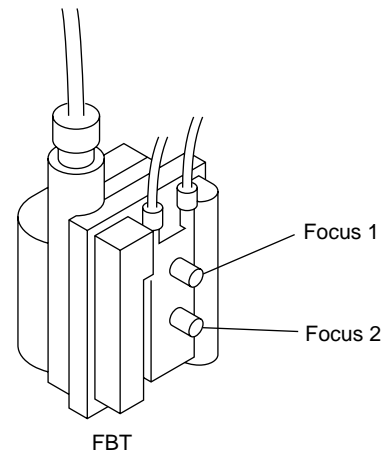
1. 9300 K
 $x = 0.283 \pm 0.005$
 $y = 0.298 \pm 0.005$
 (All White)
2. 6500 K
 $x = 0.313 \pm 0.005$
 $y = 0.329 \pm 0.005$
 (All White)
3. 5000 K
 $x = 0.346 \pm 0.005$
 $y = 0.359 \pm 0.005$
 (All White)

• Vertical and Horizontal Position and Size Specification



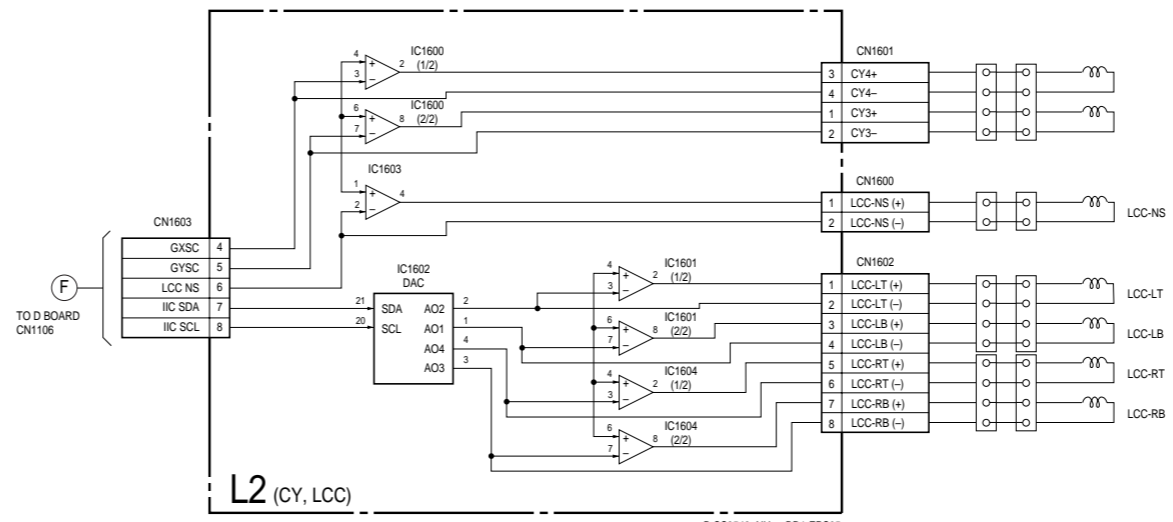
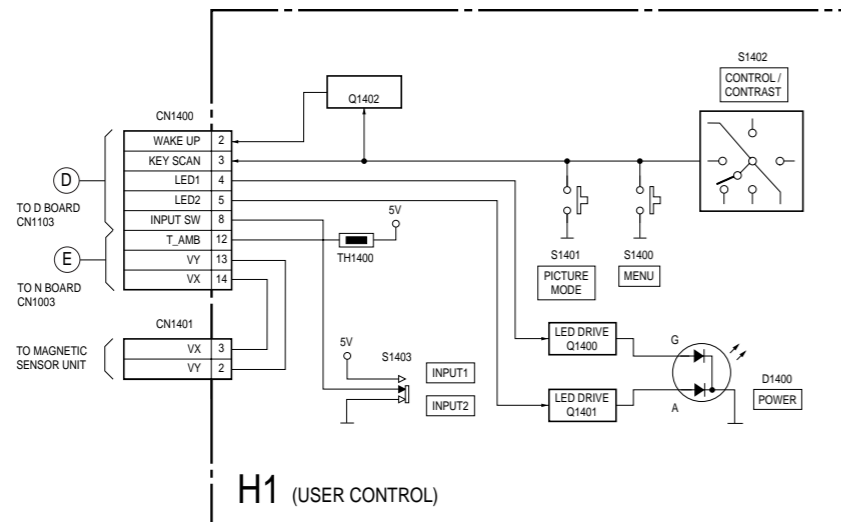
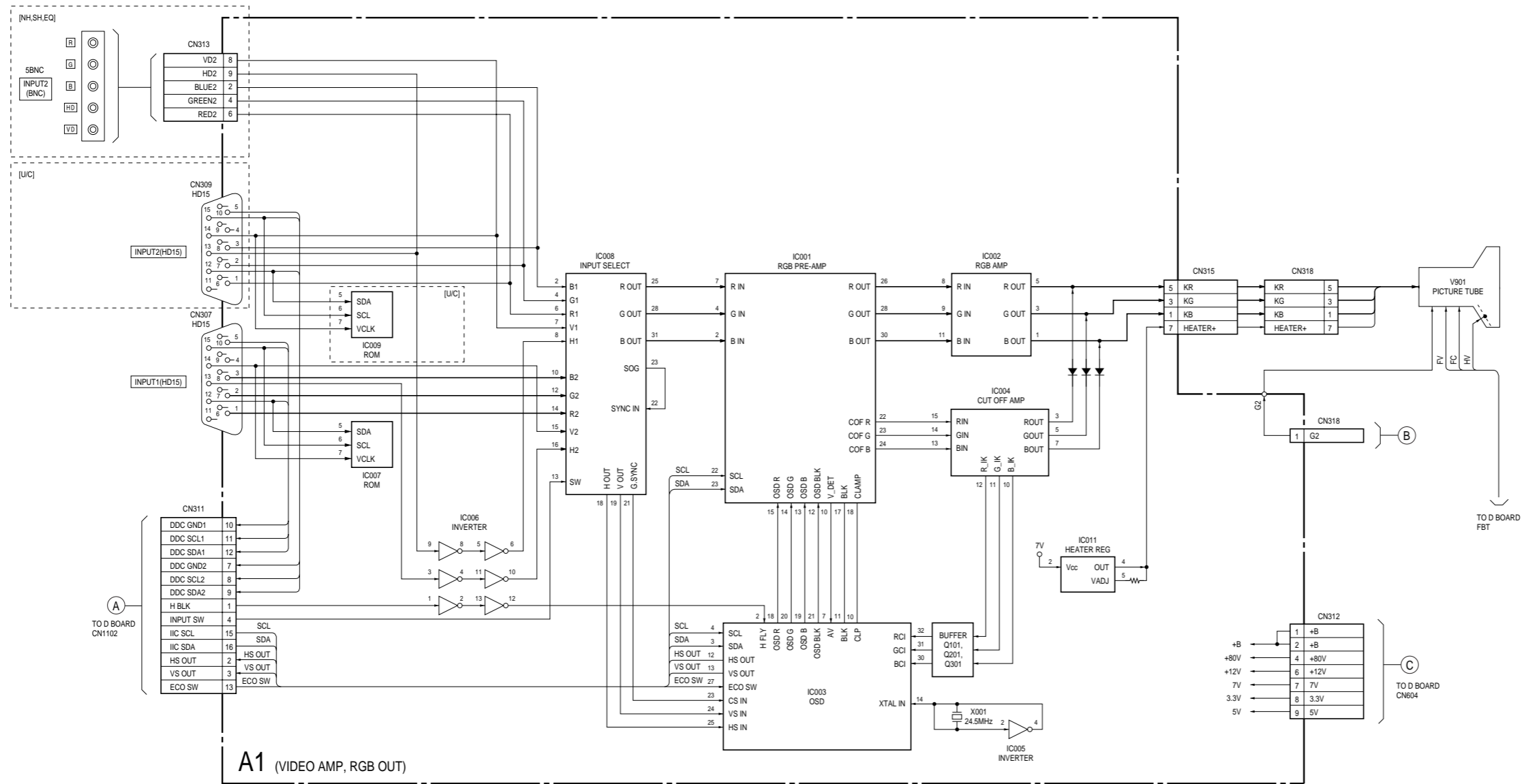
• Focus adjustment

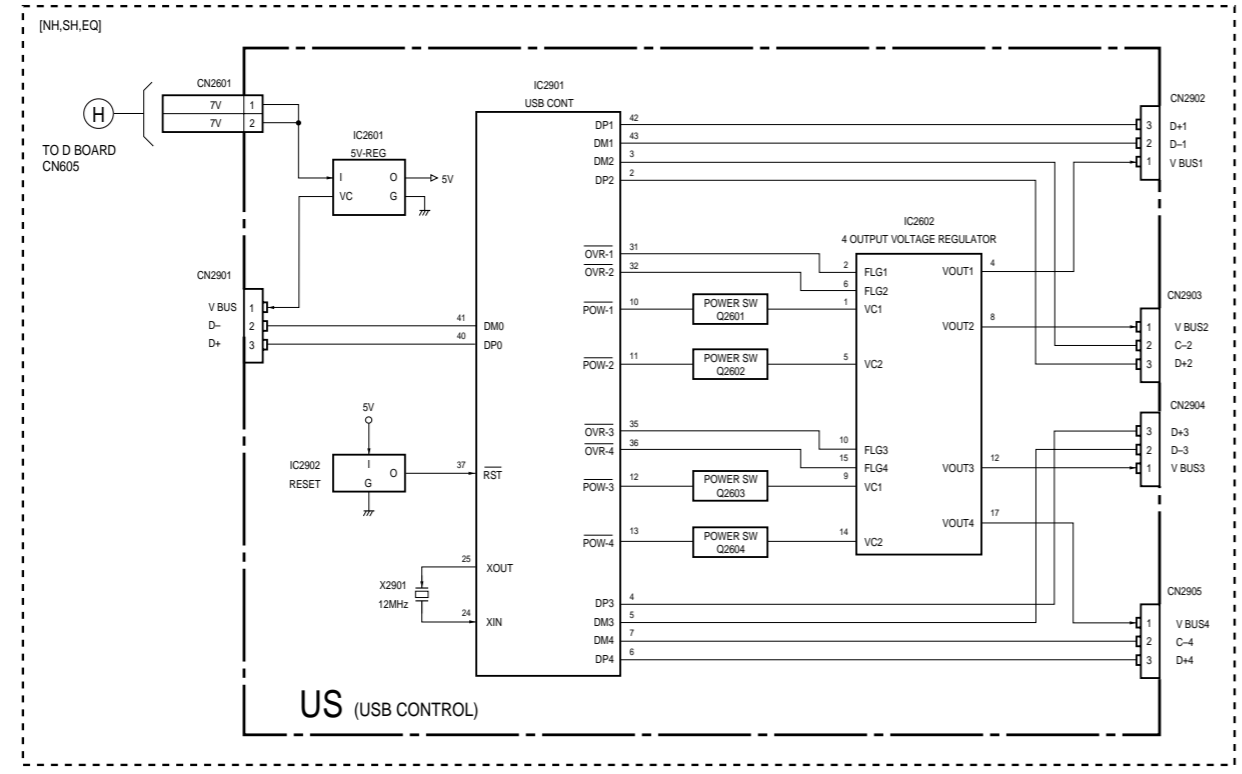
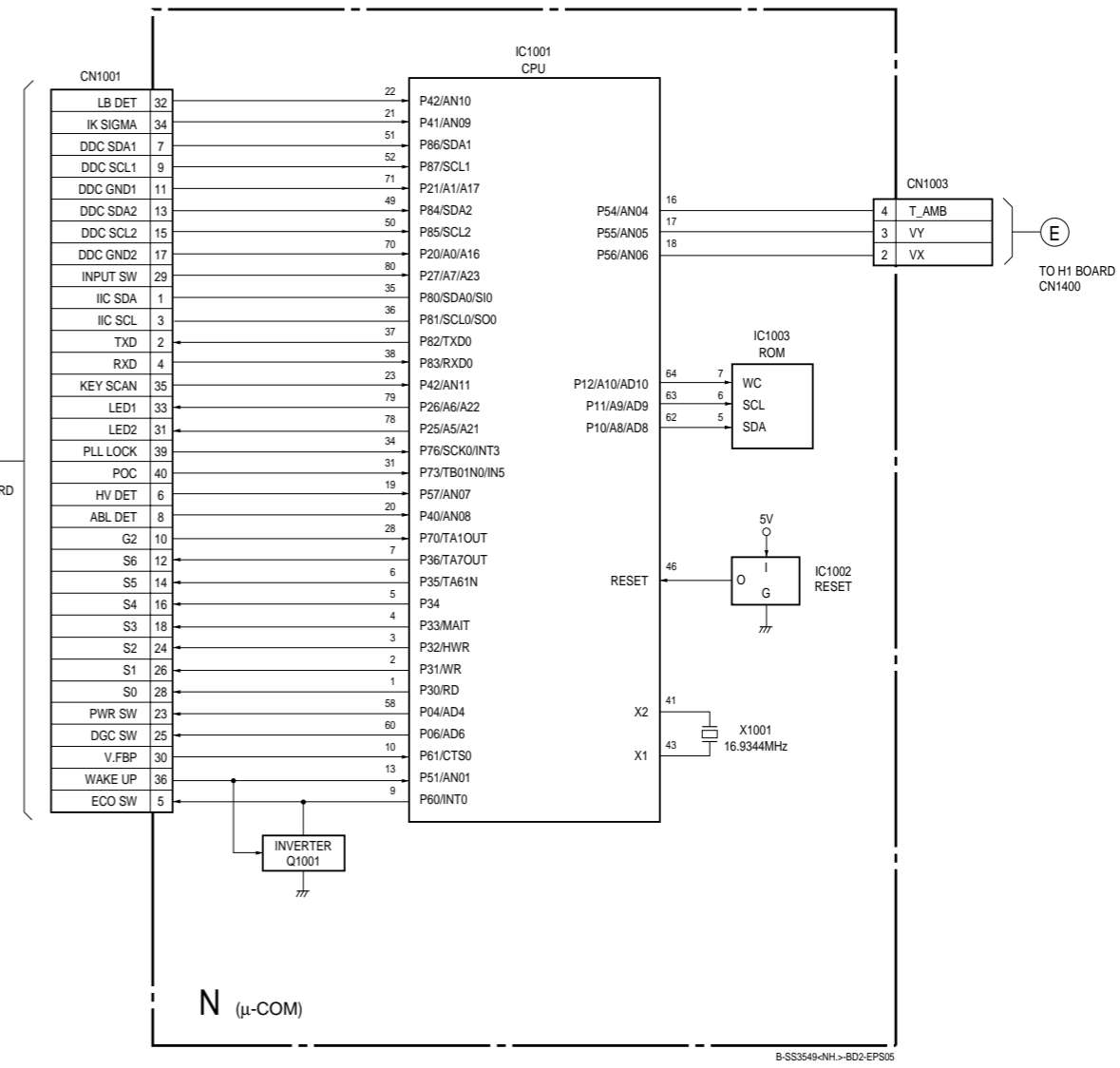
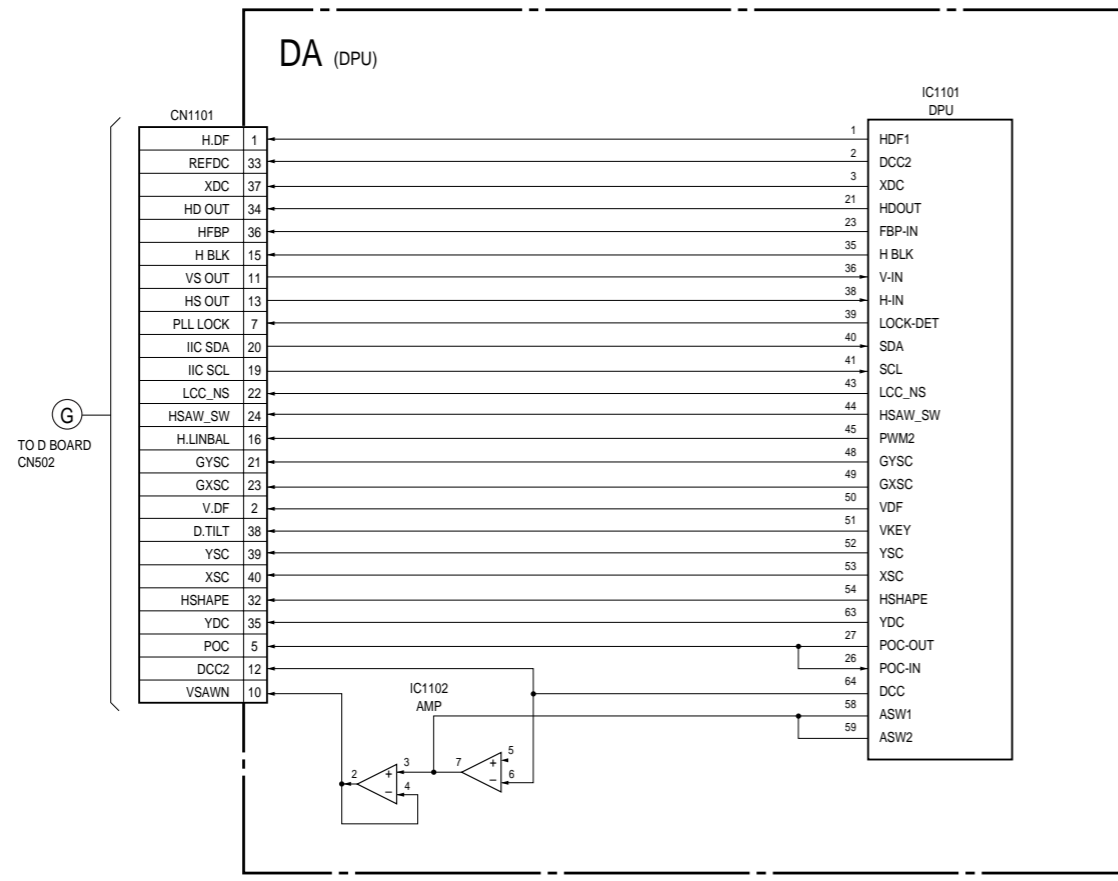
Adjust the focus volume 1 and 2 for the optimum focus.

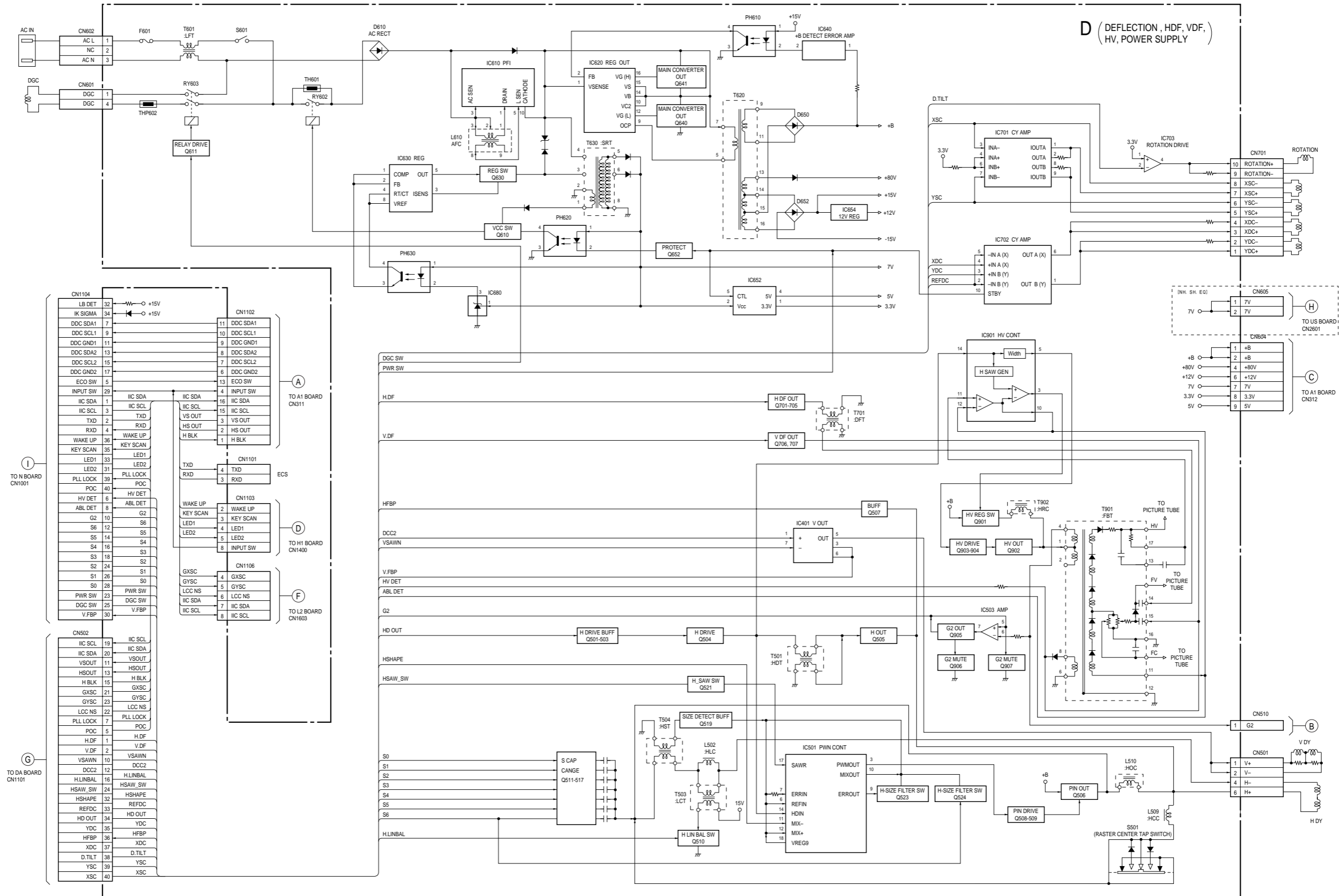


SECTION 5 DIAGRAMS

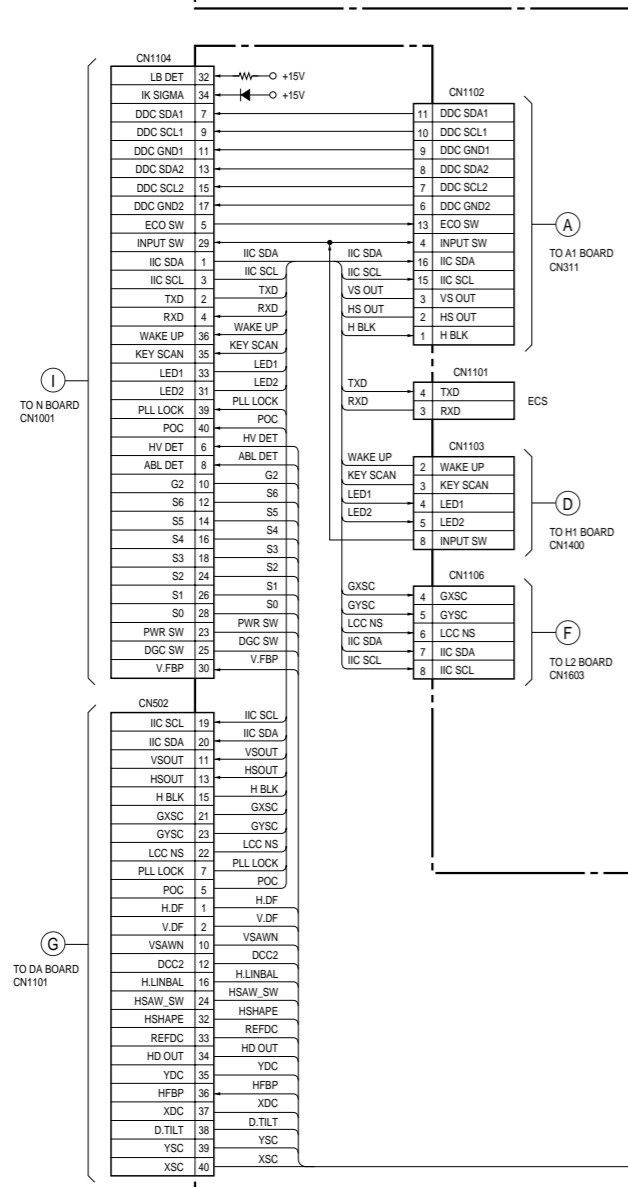
5-1. BLOCK DIAGRAMS



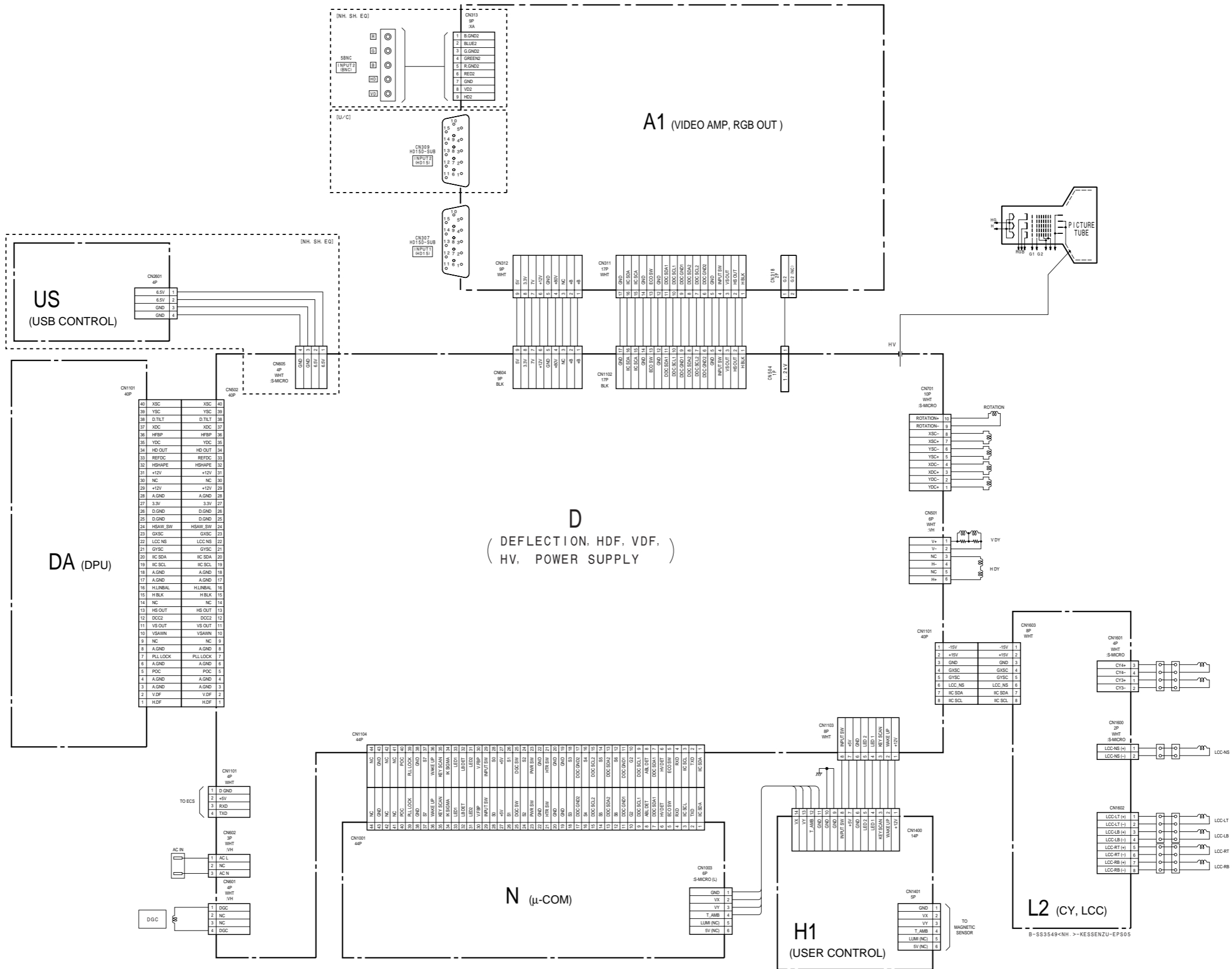




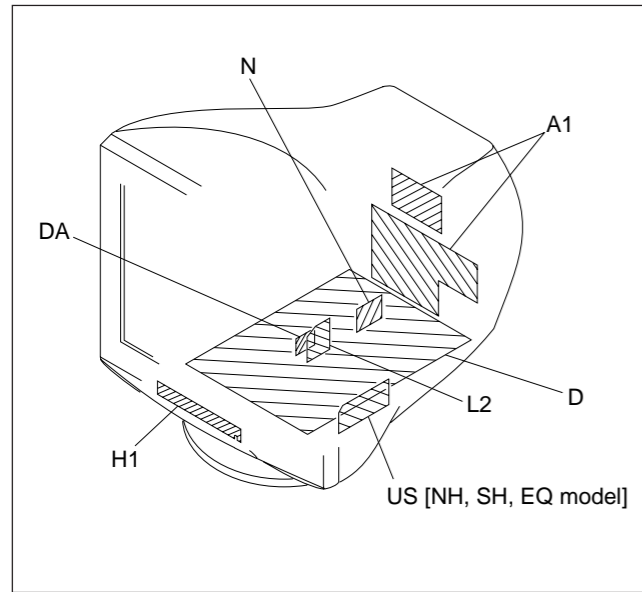
D (DEFLECTION, HDF, VDF, HV, POWER SUPPLY)



5-2. FRAME SCHEMATIC DIAGRAM



5-3. CIRCUIT BOARDS LOCATION



5-4. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- All capacitors are in μF unless otherwise noted. (pF: μpF) 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.
- : nonflammable resistor.
- : fusible resistor.
- Δ : internal component.
- : 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 in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by , make the necessary adjustments indicated. (See page 3-1)
- When replacing the part in below table, be sure to perform the related adjustment.

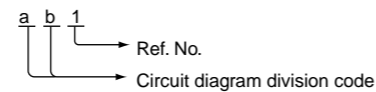
Note: The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé 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.

• Divided circuit diagram

One sheet of D board circuit diagram is divided into three sheets, each having the code D- $\text{\textcircled{a}}$ to D- $\text{\textcircled{c}}$. For example, the destination $\text{\textcircled{ab1}}$ on the code D- $\text{\textcircled{a}}$ sheet is connected to $\text{\textcircled{ab1}}$ on the D- $\text{\textcircled{b}}$ sheet.



| | |
|--------|------------------|
| | Part Replaced () |
| HV ADJ | RV901 |

| | |
|--------------------------------------|--|
| | Part Replaced () |
| HV Regulator Circuit Check | D Board C925, IC901, R901, R902, R905, R924, R925, R926, RV901, T901 (FBT) • Mounted D Board |
| HV Protector Circuit Check | D Board C920, C923, D911, D912, R903, R917, R918, R919, R920, R923, T901 (FBT) • Mounted D Board N Board IC1001, RB1001 • Mounted N Board |
| Beam Current Protector Circuit Check | D Board C930, D917, R921, R932, R933, R935, T901 (FBT) • Mounted D Board N Board IC1001, RB1001 • Mounted N Board |

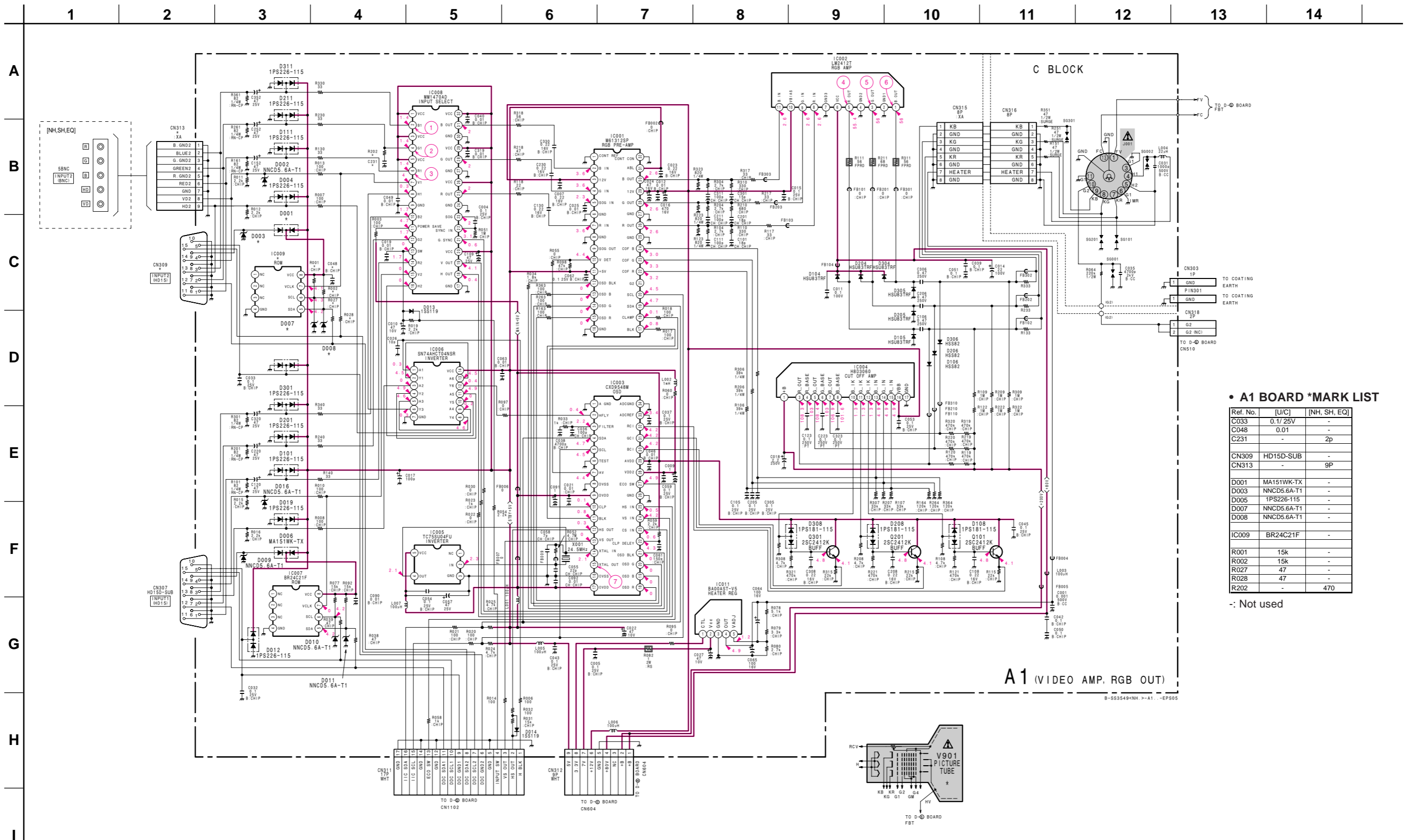
Terminal name of semiconductors in silk screen printed circuit (*)

| | 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 Anode | |
| 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.)

Ver.1.6

(1) Schematic Diagram of A1 Board

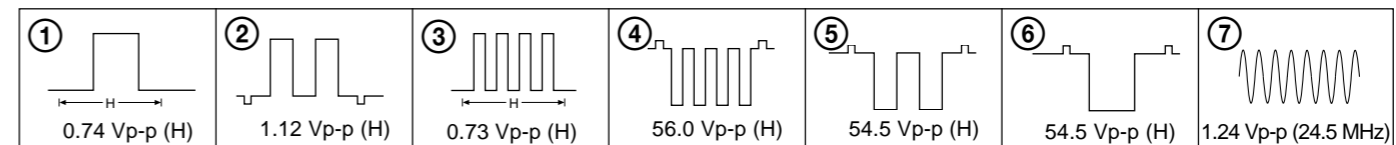


• A1 BOARD *MARK LIST

| Ref. No. | [U/C] | [NH, SH, EQ] |
|----------|-------------|--------------|
| C033 | 0.1/25V | - |
| C048 | 0.01 | - |
| C231 | - | 2p |
| CN309 | HD15D-SUB | - |
| CN313 | - | 9P |
| D001 | MA151WK-TX | - |
| D003 | NNCD5.6A-T1 | - |
| D005 | 1PS226-115 | - |
| D007 | NNCD5.6A-T1 | - |
| D008 | NNCD5.6A-T1 | - |
| IC009 | BR24C21F | - |
| R001 | 15k | - |
| R002 | 15k | - |
| R027 | 47 | - |
| R028 | 47 | - |
| R202 | - | 470 |

:- Not used

• A BOARD WAVEFORMS

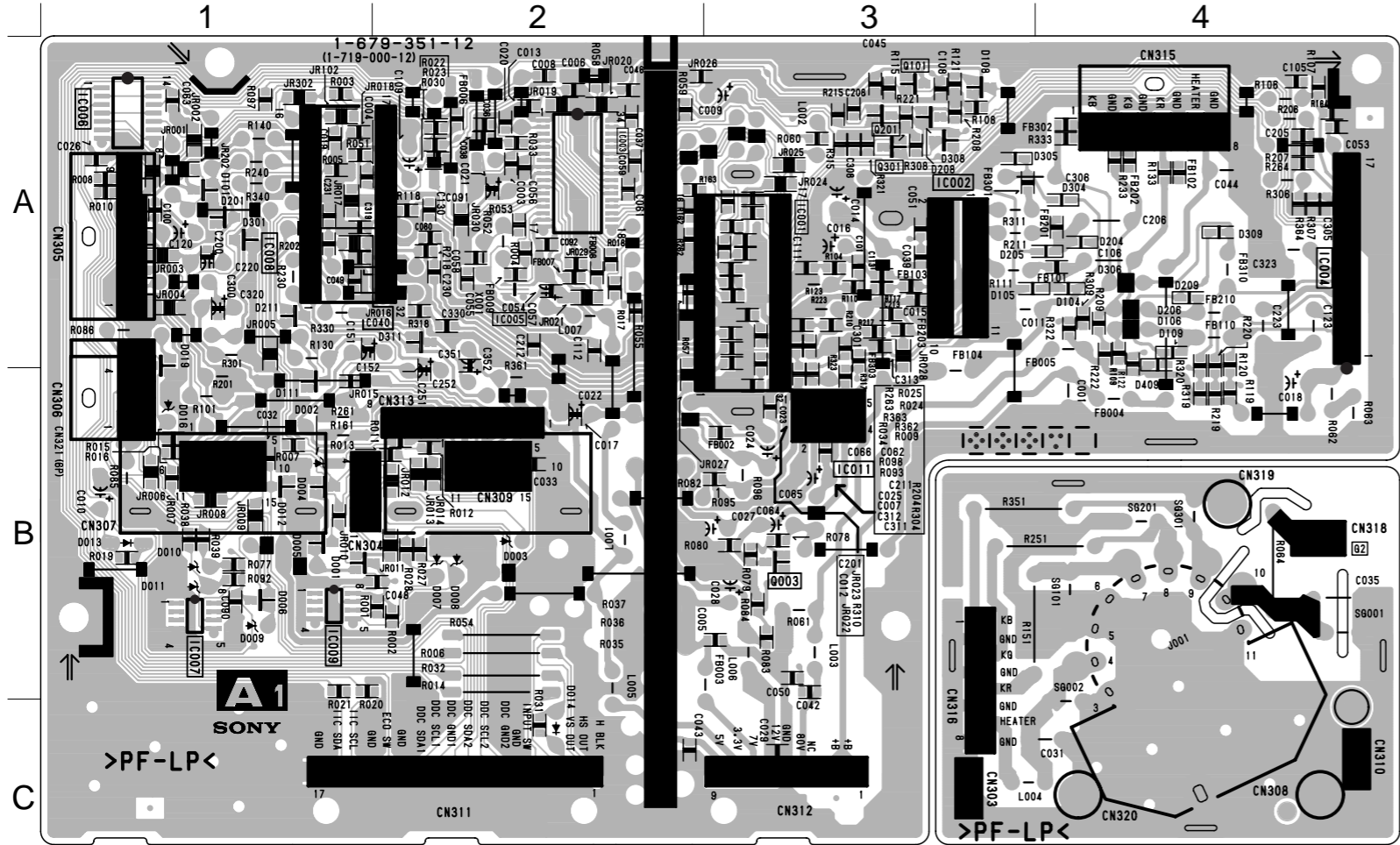


Schematic diagram

A1 board →

A1 VIDEO AMP RGB OUT

A1 BOARD



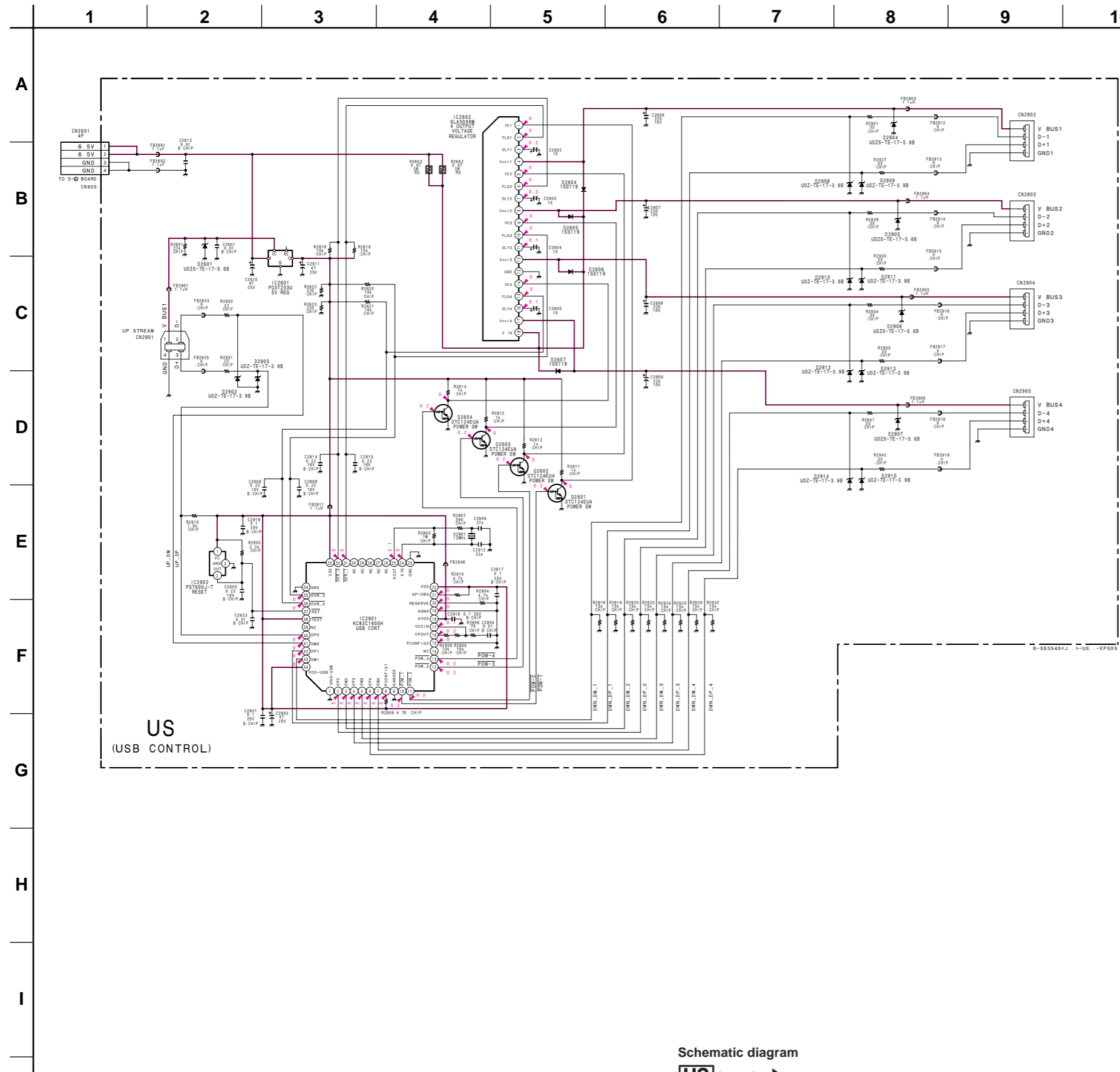
A1 BOARD SEMICONDUCTOR LOCATION

| IC | | |
|------------|-----|----|
| IC001 | A-3 | |
| IC002 | A-3 | |
| IC003 | A-2 | |
| IC004 | A-4 | |
| IC005 | A-2 | |
| IC006 | A-1 | |
| IC007 | B-1 | |
| IC008 | A-1 | |
| IC009 | B-1 | |
| IC011 | B-3 | |
| TRANSISTOR | | |
| Q101 | A-3 | 1 |
| Q201 | A-3 | 1 |
| Q301 | A-3 | 1 |
| DIODE | | |
| D001 | B-1 | 8 |
| D002 | B-1 | - |
| D003 | B-2 | - |
| D004 | B-1 | 6 |
| D005 | B-1 | 6 |
| D006 | B-1 | 8 |
| D007 | B-2 | - |
| D008 | B-2 | - |
| D009 | B-1 | - |
| D010 | B-1 | - |
| D011 | B-1 | - |
| D012 | B-1 | 6 |
| D013 | B-1 | - |
| D014 | C-2 | - |
| D016 | B-1 | - |
| D019 | A-1 | 6 |
| D101 | A-1 | 6 |
| D104 | A-4 | 3 |
| D105 | A-3 | 3 |
| D106 | A-4 | - |
| D108 | A-3 | 10 |
| D111 | B-1 | 6 |
| D201 | A-1 | 6 |
| D204 | A-4 | 2 |
| D205 | A-3 | 3 |
| D206 | A-4 | - |
| D208 | A-3 | 10 |
| D211 | A-1 | 6 |
| D301 | A-1 | 6 |
| D304 | A-4 | 3 |
| D305 | A-3 | 3 |
| D306 | A-4 | - |
| D308 | A-3 | 10 |
| D311 | A-2 | 6 |
| CRYSTAL | | |
| X001 | A-2 | |

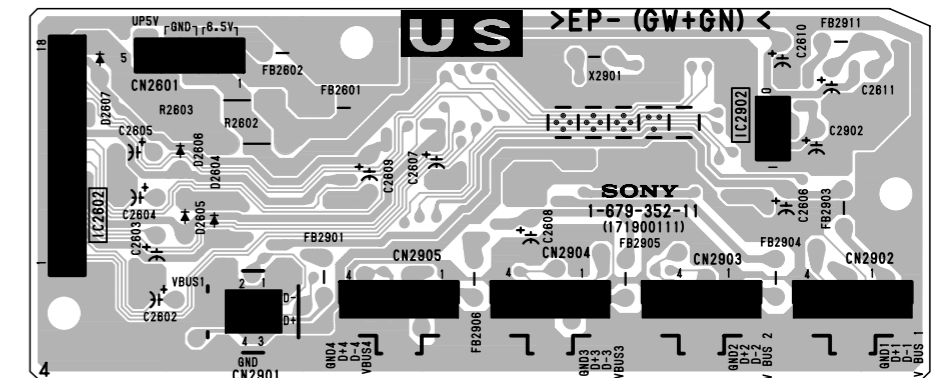
*: Refer to Terminal name of semiconductor in silk screen printed circuit (see page 5-10)

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.

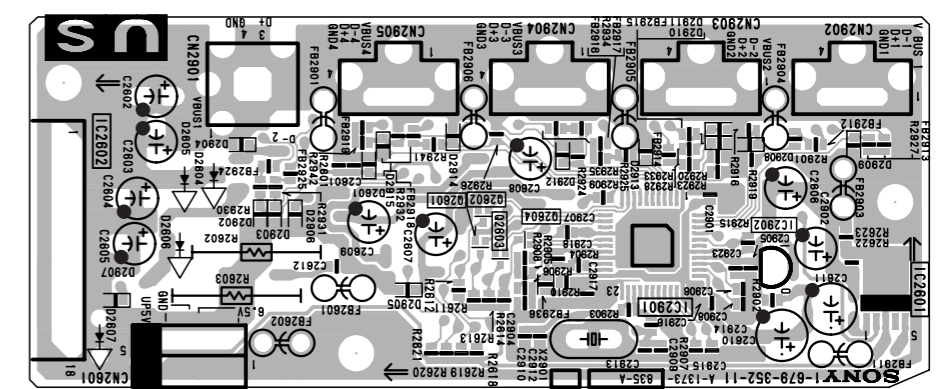
(2) Schematic Diagram of US Board (Only NH, SH, EQ models)



— US BOARD (Conductor Side) —



— US BOARD (Component Side) —



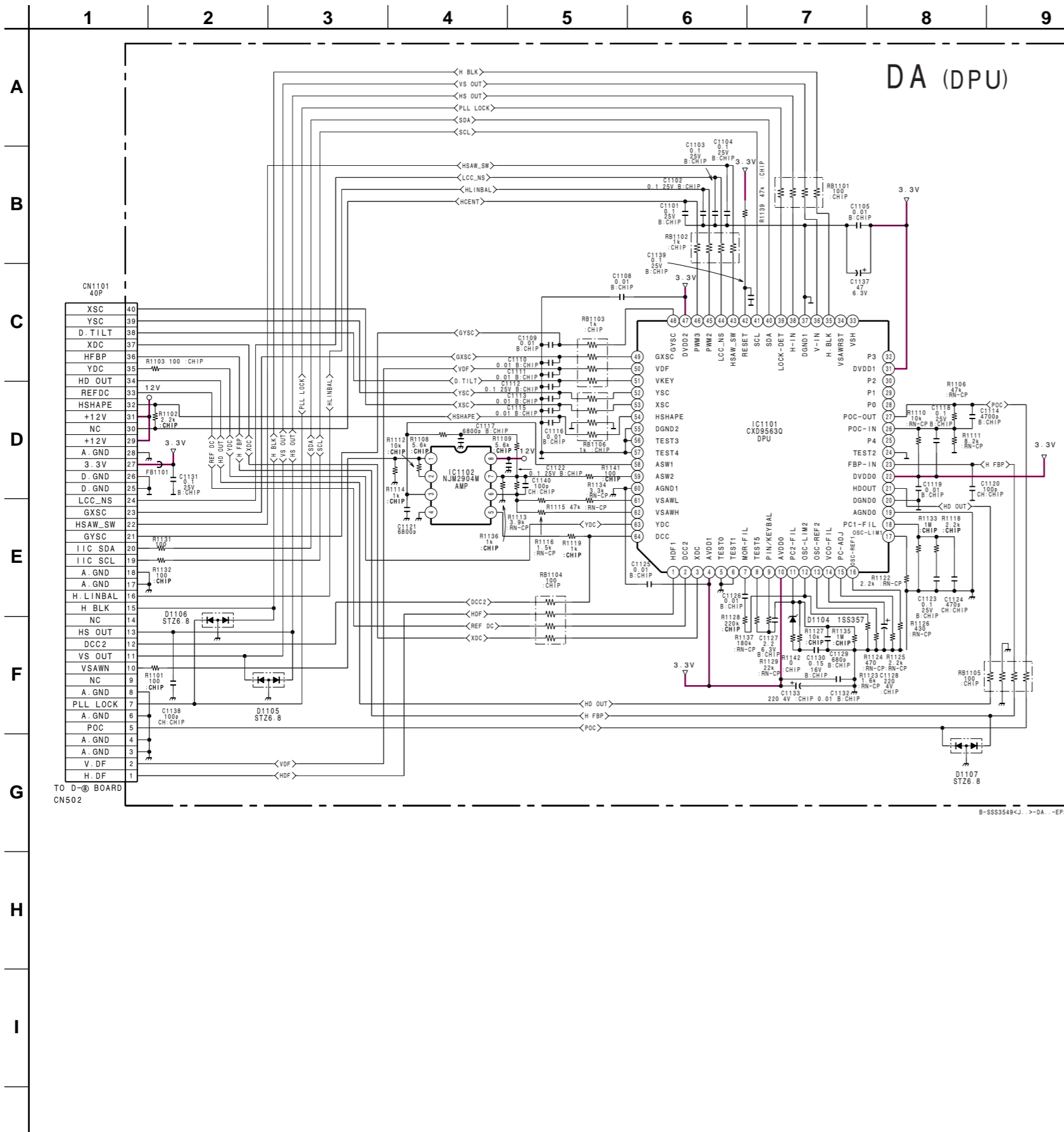
US BOARD
Terminal name of semiconductors
in silk screen printed circuit (*)

| Ref. | * |
|----------------------|---|
| D2601, D2902 - D2915 | ③ |
| Q2601 - Q2604 | ② |

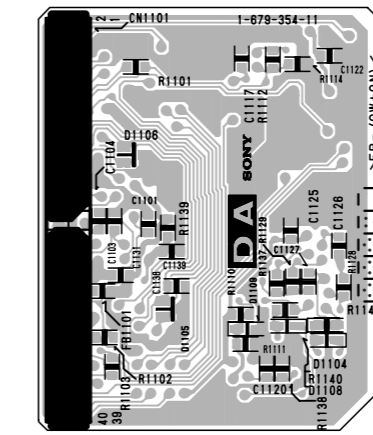
*: Refer to Terminal name of semiconductors
in silk screen printed circuit (see page 5-10)

Schematic diagram
US board →

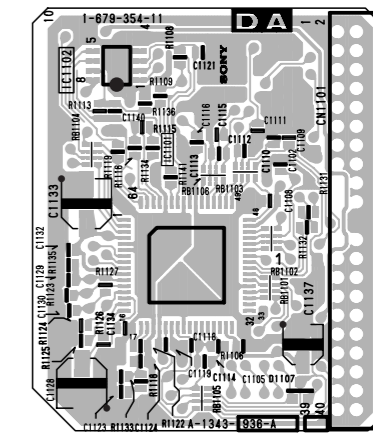
(3) Schematic Diagram of DA Board



— DA BOARD (Conductor Side) —



— DA BOARD (Component Side) —

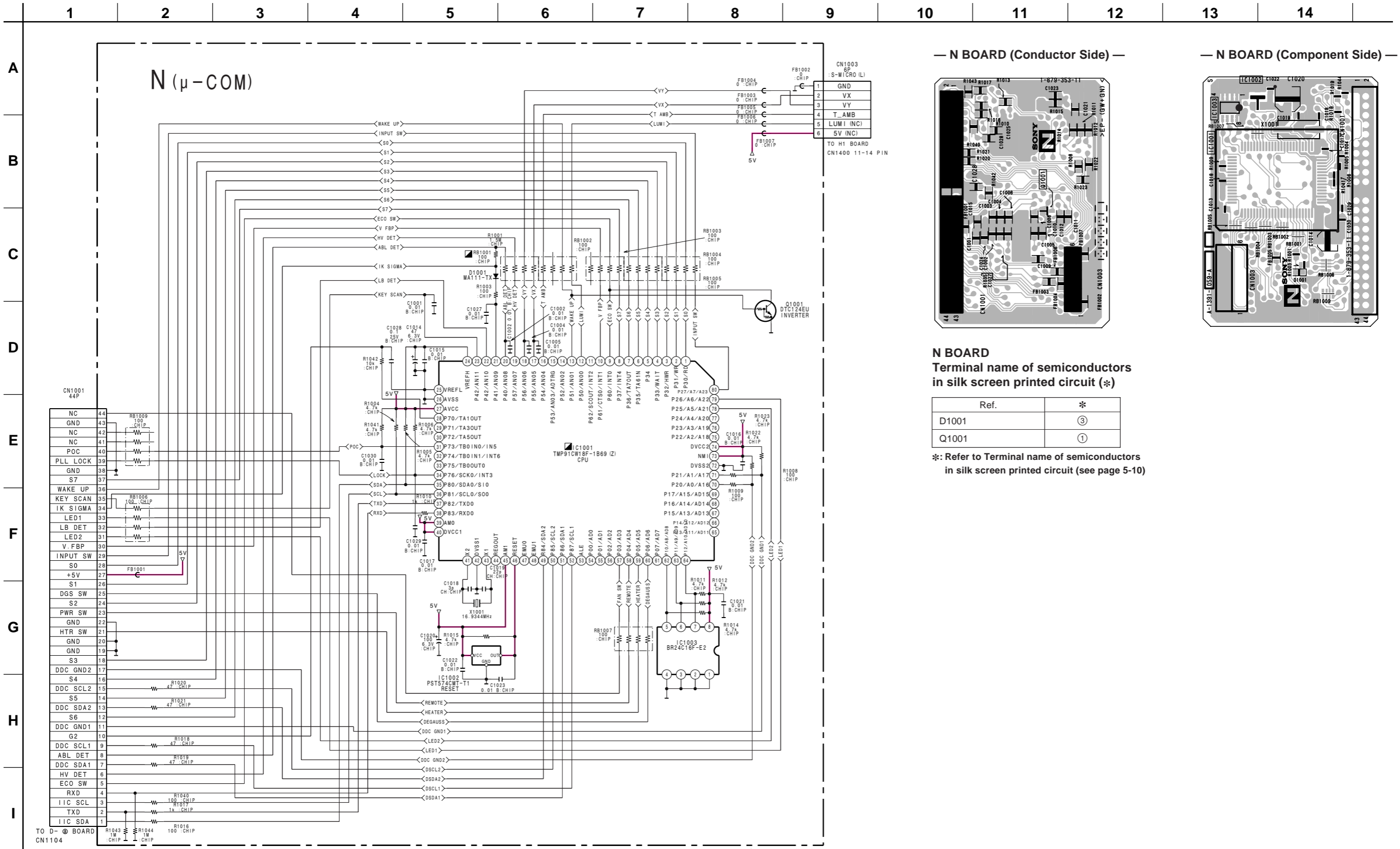


DA BOARD
Terminal name of semiconductors
in silk screen printed circuit (*)

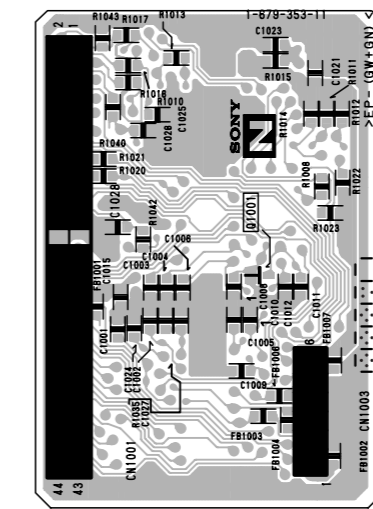
| Ref. | * |
|---------------|---|
| D1104 | ③ |
| D1105 - D1107 | ⑩ |

※: Refer to Terminal name of semiconductors
in silk screen printed circuit (see page 5-10)

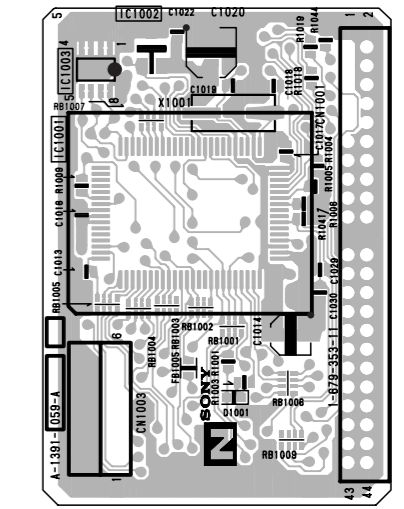
(4) Schematic Diagram of N Board



— N BOARD (Conductor Side) —



— N BOARD (Component Side) —



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

| Ref. | * |
|-------|---|
| D1001 | ③ |
| Q1001 | ① |

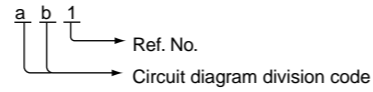
※: Refer to Terminal name of semiconductors
in silk screen printed circuit (see page 5-10)

Schematic diagram
← DA board

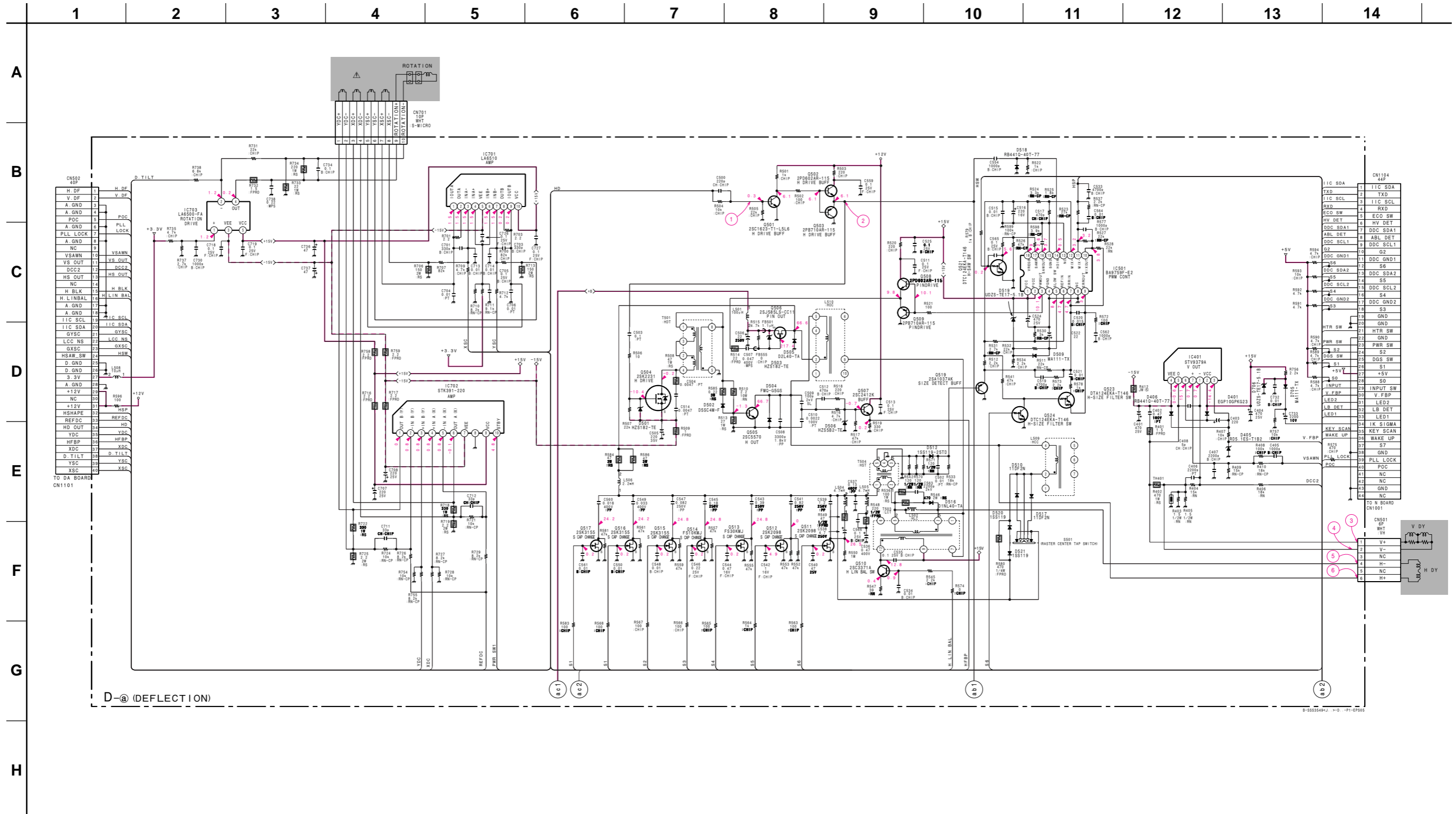
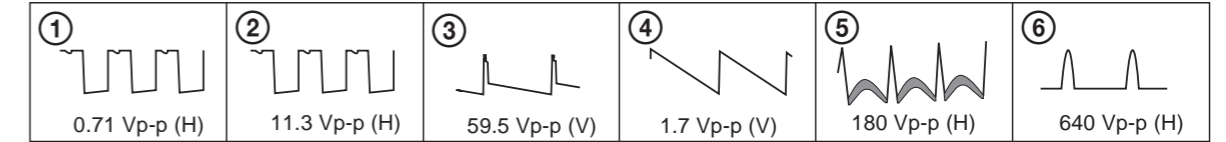
Schematic diagram
N board →

(5) Schematic Diagrams of D (a, b, c) Board

- Divided circuit diagram
- One sheet of D board circuit diagram is divided into three sheets, each having the code D-Ⓐ to D-Ⓒ. For example, the destination ab1 on the code D-Ⓐ sheet is connected to ab1 on the D-Ⓑ sheet.

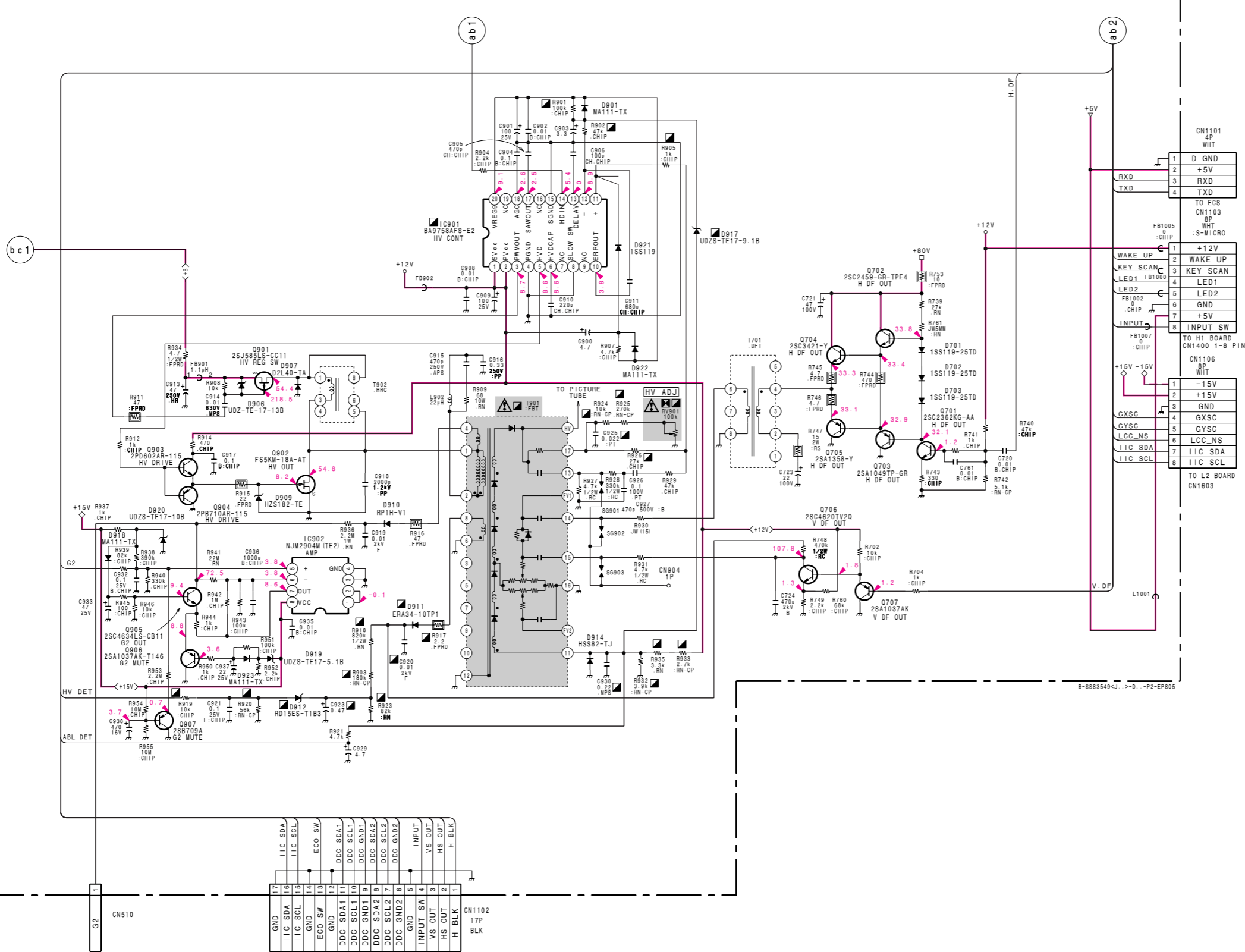


• D-Ⓐ BOARD WAVEFORMS



A
B
C
D
E
F
G
H
I

D-Ⓟ (HV, HDF, VDF)



| | |
|-------------------------------|-------------|
| CN1101 4P WHT | |
| 1 | D GND |
| 2 | +5V |
| 3 | RXD |
| 4 | TXD |
| TO ECS CN1103 8P WHT :S-MICRO | |
| 1 | +12V |
| 2 | WAKE UP |
| 3 | KEY SCAN |
| 4 | LED1 FB1000 |
| 5 | LED2 |
| 6 | GND |
| 7 | +5V |
| 8 | INPUT SW |
| TO H1 BOARD CN1400 1-8 PIN | |
| CN1106 8P WHT | |
| 1 | -15V |
| 2 | +15V |
| 3 | GND |
| 4 | GXSC |
| 5 | GXSC |
| 6 | LCC_NS |
| 7 | IIC_SDA |
| 8 | IIC_SCL |
| TO L2 BOARD CN1603 | |

Schematic diagram
← D-Ⓛ board

TO A1 BOARD CN318

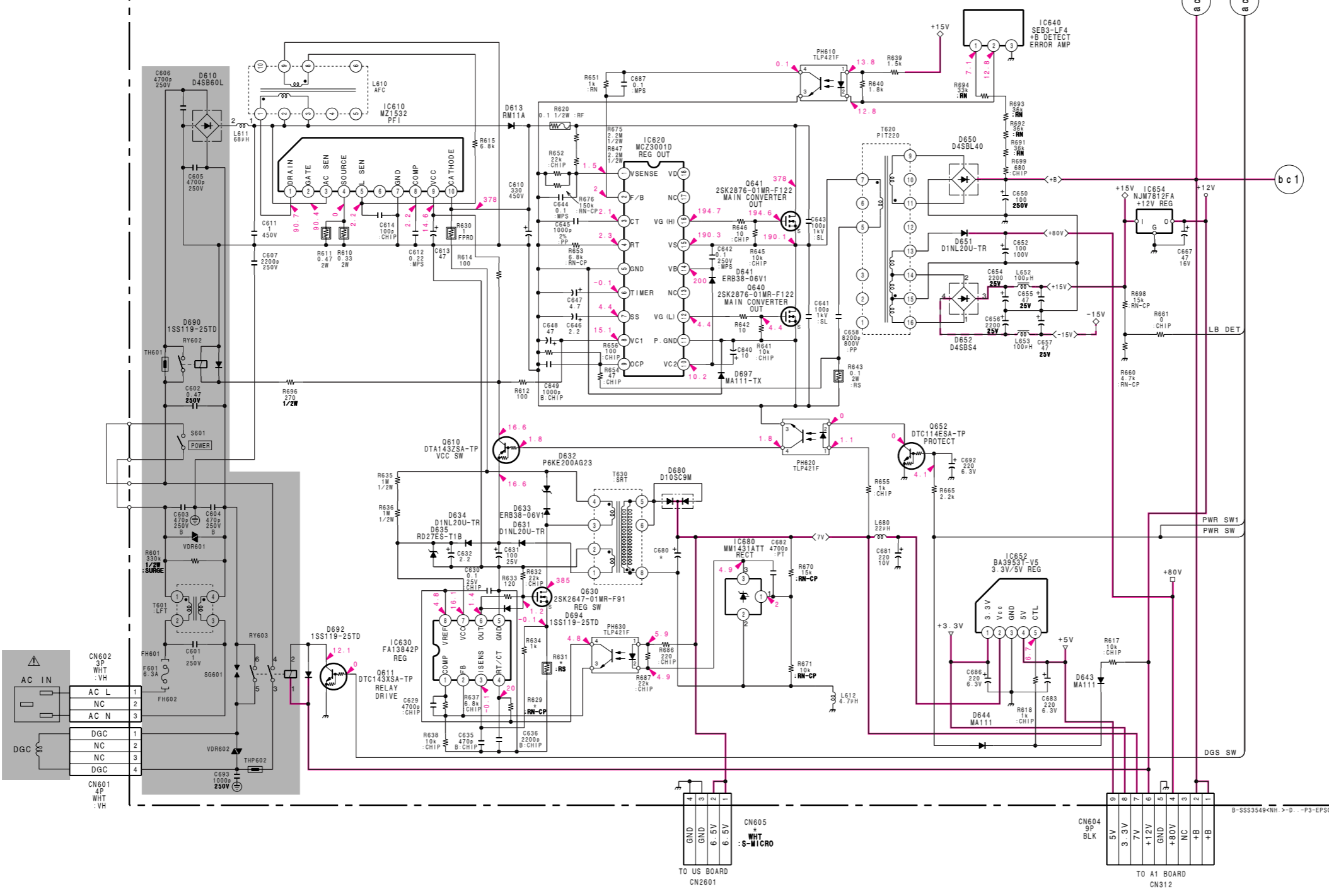
| | |
|----|----------|
| 17 | GND |
| 16 | IIC_SDA |
| 15 | IIC_SCL |
| 14 | GND |
| 13 | ECO_SW |
| 12 | GND |
| 11 | DDC_SDA1 |
| 10 | DDC_SCL1 |
| 9 | DDC_GND1 |
| 8 | DDC_SDA2 |
| 7 | DDC_SCL2 |
| 6 | DDC_GND2 |
| 5 | GND |
| 4 | INPUT_SW |
| 3 | VS_OUT |
| 2 | HS_OUT |
| 1 | H_BLK |

TO A1 BOARD CN311

Schematic diagram
D-Ⓟ board →

A
B
C
D
E
F
G
H
I

D-C (POWER SUPPLY)



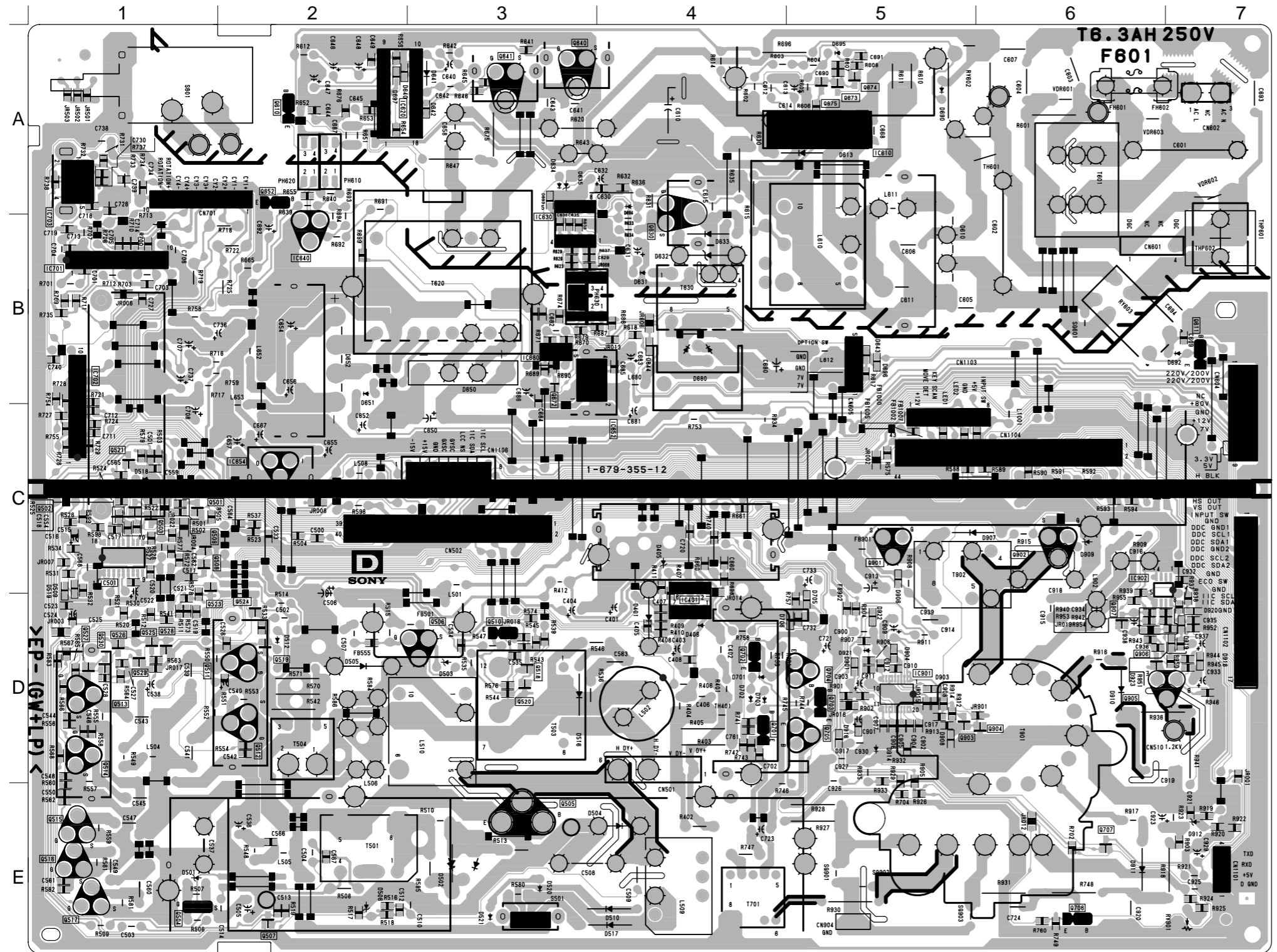
• D-C BOARD *MARK LIST

| Ref. No. | INH. SH. EO] | [U/C] |
|----------|--------------|-----------|
| C680 | 6800/ 10V | 4700/ 16V |
| CN605 | 4P | - |
| R629 | 6.8k | 15k |
| R631 | 1/2W | 1/1W |

∴ Not used

D DEFLECTION, H DF, V DF
HV, POWER SUPPLY

— D BOARD —



• D BOARD
SEMICONDUCTOR
LOCATION

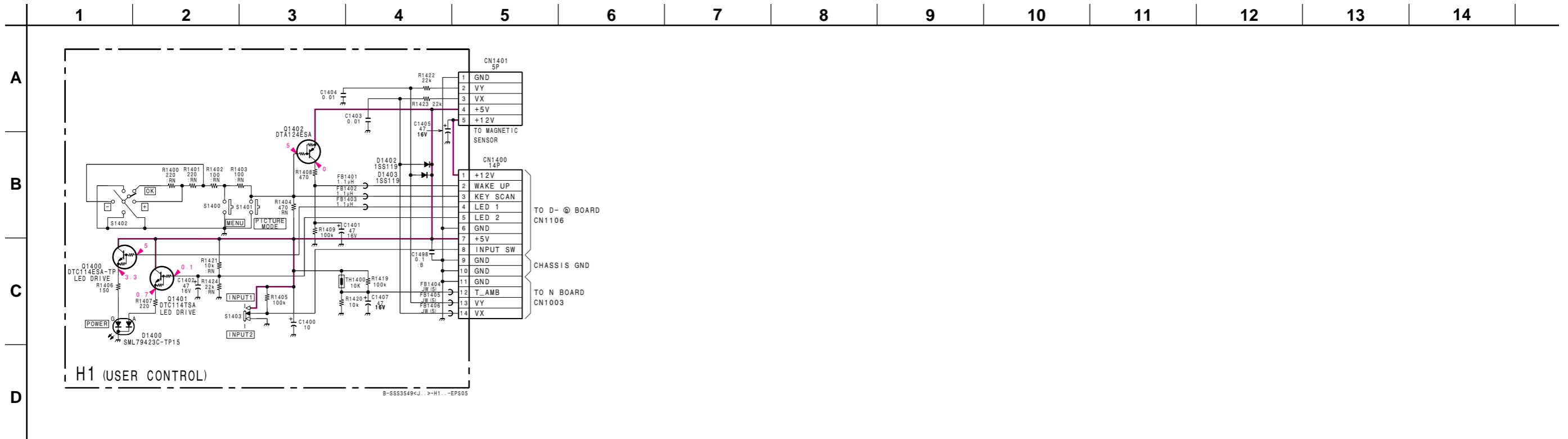
| IC | | DIODE | |
|-------|-----|-------|-------------------|
| IC401 | D-4 | D401 | D-4 * |
| IC501 | C-1 | D405 | C-4 |
| IC610 | A-5 | D406 | D-4 |
| IC630 | B-3 | D501 | E-1 |
| IC640 | B-2 | D502 | E-3 |
| IC652 | B-3 | D503 | D-3 |
| IC654 | C-2 | D504 | E-4 |
| IC680 | B-3 | D505 | D-2 |
| IC701 | B-1 | D506 | E-2 |
| IC702 | B-1 | D509 | C-1 |
| IC703 | A-1 | D510 | E-4 |
| IC901 | D-5 | D512 | D-2 |
| IC902 | C-6 | D516 | D-3 |
| | | D517 | E-4 |
| | | D518 | C-1 |
| | | D519 | C-1 |
| | | D520 | E-3 |
| | | D521 | E-3 |
| | | D610 | B-5 |
| | | D613 | A-5 |
| | | D631 | B-4 |
| | | D632 | B-4 |
| | | D633 | B-4 |
| | | D634 | A-3 |
| | | D635 | A-3 |
| | | D641 | A-3 |
| | | D643 | B-5 |
| | | D644 | B-4 |
| | | D650 | B-3 |
| | | D651 | B-2 |
| | | D652 | B-2 |
| | | D680 | B-4 |
| | | D690 | A-5 |
| | | D692 | B-7 |
| | | D694 | A-4 |
| | | D697 | A-2 |
| | | D701 | D-4 |
| | | D702 | D-4 |
| | | D703 | D-4 |
| | | D705 | C-5 |
| | | D706 | D-4 |
| | | D901 | D-5 |
| | | D906 | C-5 |
| | | D907 | C-5 |
| | | D909 | C-6 |
| | | D910 | D-6 |
| | | D911 | E-6 |
| | | D912 | E-7 |
| | | D914 | D-5 |
| | | D917 | D-5 |
| | | D918 | D-7 |
| | | D919 | D-7 |
| | | D920 | D-7 |
| | | D921 | D-5 |
| | | D922 | D-5 |
| | | D923 | D-7 |
| | | | VARIABLE RESISTOR |
| | | RV901 | E-7 |

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.

※: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 5-10)

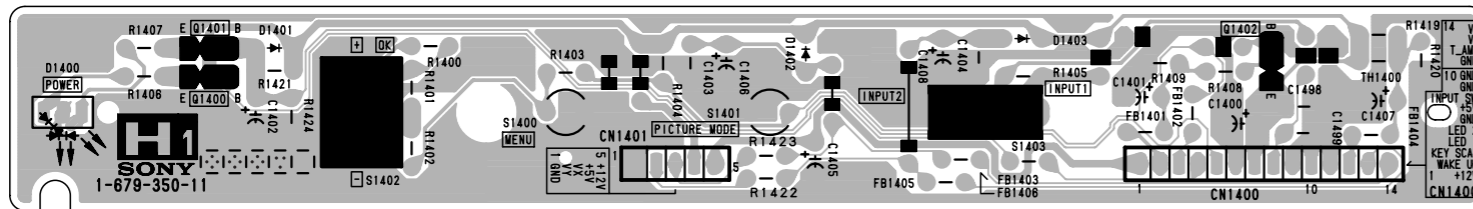
Schematic diagram
← **D** - © board

(6) Schematic Diagram of H1 Board

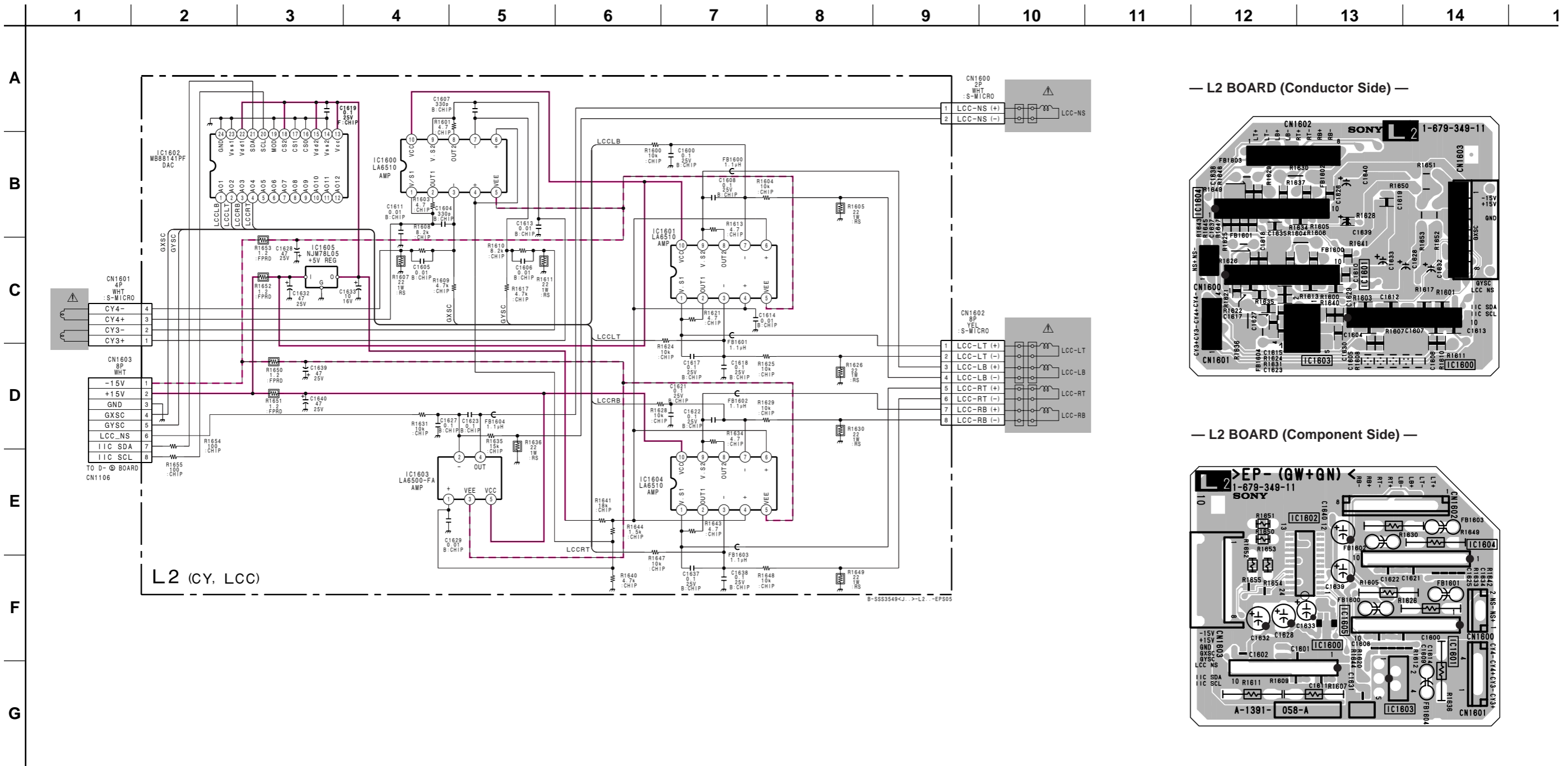


H1 [USER CONTROL]

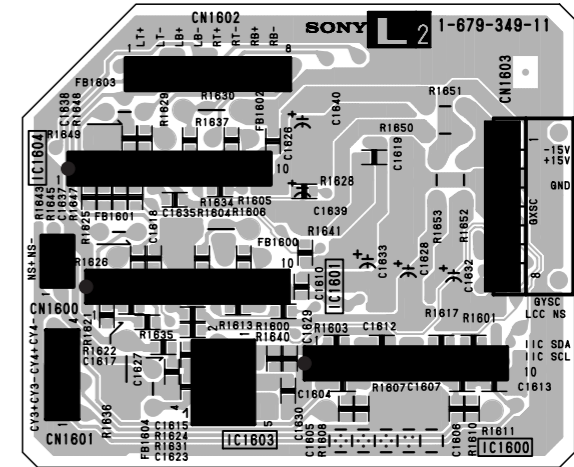
- H1 BOARD -



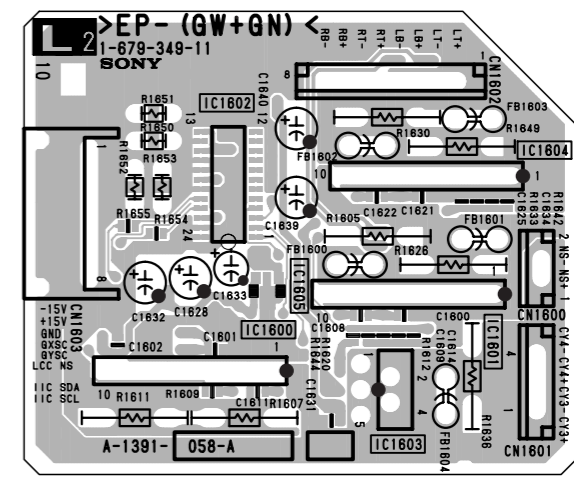
(7) Schematic Diagram of L2 Board



— L2 BOARD (Conductor Side) —

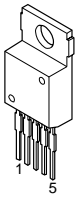


— L2 BOARD (Component Side) —

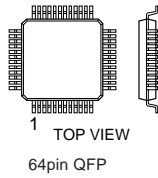


5-5. SEMICONDUCTORS

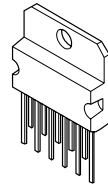
**BA00AST-V5
LA6500-FA**



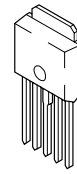
CXD9563Q



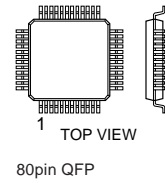
**LM2412AT
LM2412T**



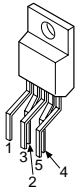
PQ3T253U



TMP91PW18F-1A22 (Z)



BA3953T-V5



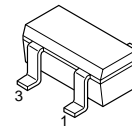
FA13842P



MCZ3001D

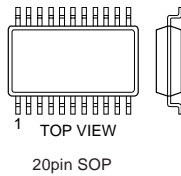


PST574CMT-T1

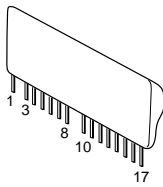


**DTA124EKA-T146
DTC124EK
DTC124EKA-T146
2PB710AR-115
2PD602AR-115
2SA1037AK-T146-QR
2SA1037AK-T146-R
2SA1162-G
2SB709A-QRS-TX
2SC1623-L5L6
2SC2412K-T-146-QR**

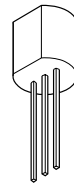
**BA9758AFS-E2
BA9758FS-E2**



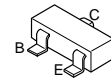
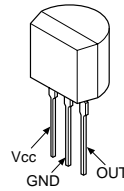
H8D3060



MM1431ATT

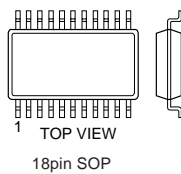


PST600J-T

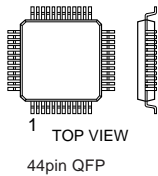


**DTA124ESA-TP
DTC114ESA
DTC114ESA-TP
DTC143XSA
DTC143XSA-TP
2SC2459-GR-TPE4
2SC2784**

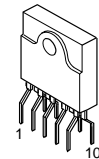
BA9759F-E2



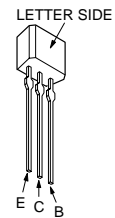
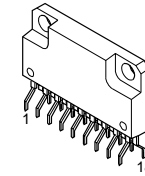
KC82C160SH



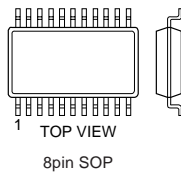
MZ1532



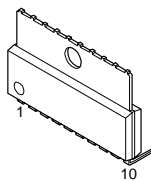
SLA3006M (LF874)



**BR24C16F-E2
BR24C21F-E2
NJM2904M
NJM2904M(TE2)**



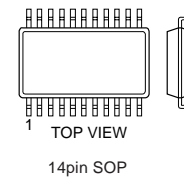
LA6510



**M61312SP
MM1470AD**

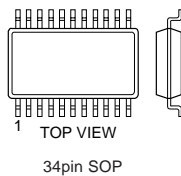


SN74AHCT04NSR

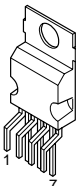


**DTA143ZSA-TP
DTC114TSA
DTC114TSA-TP
2SA1049-GR
2SA1049TP-GR**

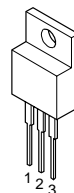
CXD9548M



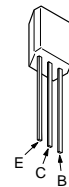
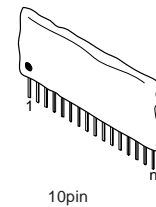
LA78040



**NJM7812FA
SEB3-LF4**

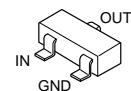
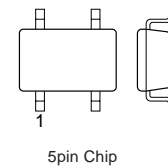


STK391-120

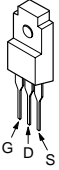


**DTC124EUA-T106
DTC124EUT106**

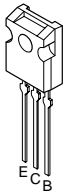
TC7SU04FU (TE85R)



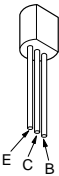
FS10KMJ-3-AZ
 FS30KMJ-3-AZ
 FS5KM-18A-AT
 2SJ585LS-CB11
 2SK2098-01MR-F119
 2SK2876-01MR-F122
 2SK3155-01
 2SK3332



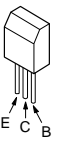
2SA1358-Y
 2SC3421-Y



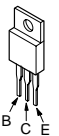
2SC2362K-G
 2SC2362KG-AA



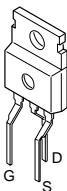
2SC4620TV2Q
 2SD774-34
 2SD774-T-34



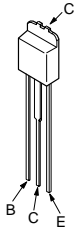
2SC4634LS-CB11



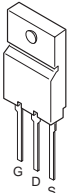
2SC5682-CC
 2SJ585LS-CC11



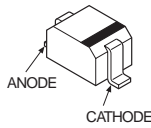
2SK2231



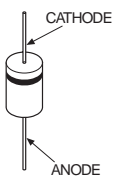
2SK2647-01MR-F91



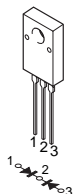
DTZ10B
 DTZ13B
 MA111-(K8).S0
 MA111-TX
 UDZ-TE-17-13B
 UDZ-TE-17-3.9B
 UDZS-TE17-10B
 UDZS-TE17-5.1B
 UDZS-TE17-5.6B
 UDZS-TE17-9.1B
 1SS357-TPH3



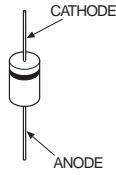
D1NL20U-TR
 D1NL20U-TR2
 ERA34-10TP1
 ERB38-06V1
 HSS82-TJ
 HZS5B2-TE
 NNCD5.6A-T1
 P6KE200AG23
 RGP02-20EL-6394
 RP1H-V1
 11DF2N-TA2B2



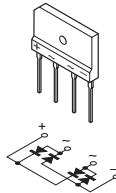
D10SC9M



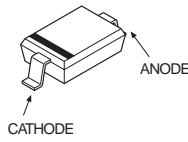
D3S4M
 EGP10D
 EGP10GPKG23
 ERC81-004



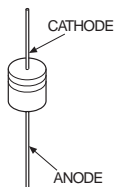
D4SB60L
 D4SBL40
 D4SBS4
 D4SBS4-F



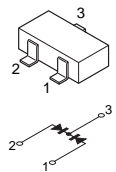
HSU83TRF



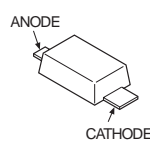
HZS182-TE
 RB441Q-40T-77
 RD15ES-B3
 RD15ES-T1B3
 RD18ESB
 RD27ES-B2
 RD27ES-T1B
 RD5.1ES-T1B2
 RD5.1ESB2
 RD5.6ESB2
 1PS119-25



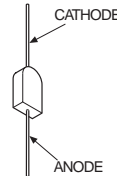
MA151WK-TX
 1SS184



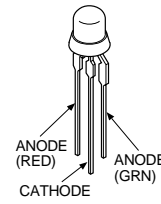
MA8039



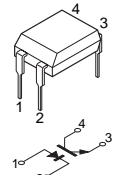
RM11A
 RM11C



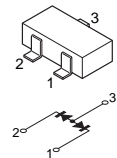
SML79423C-TP15



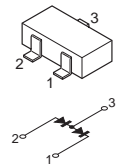
TLP421F (D4-SONY)



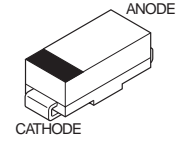
1PS181-115



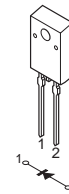
1PS226-115



1SS376TE-17



5TUZ52C (SONY1)



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.

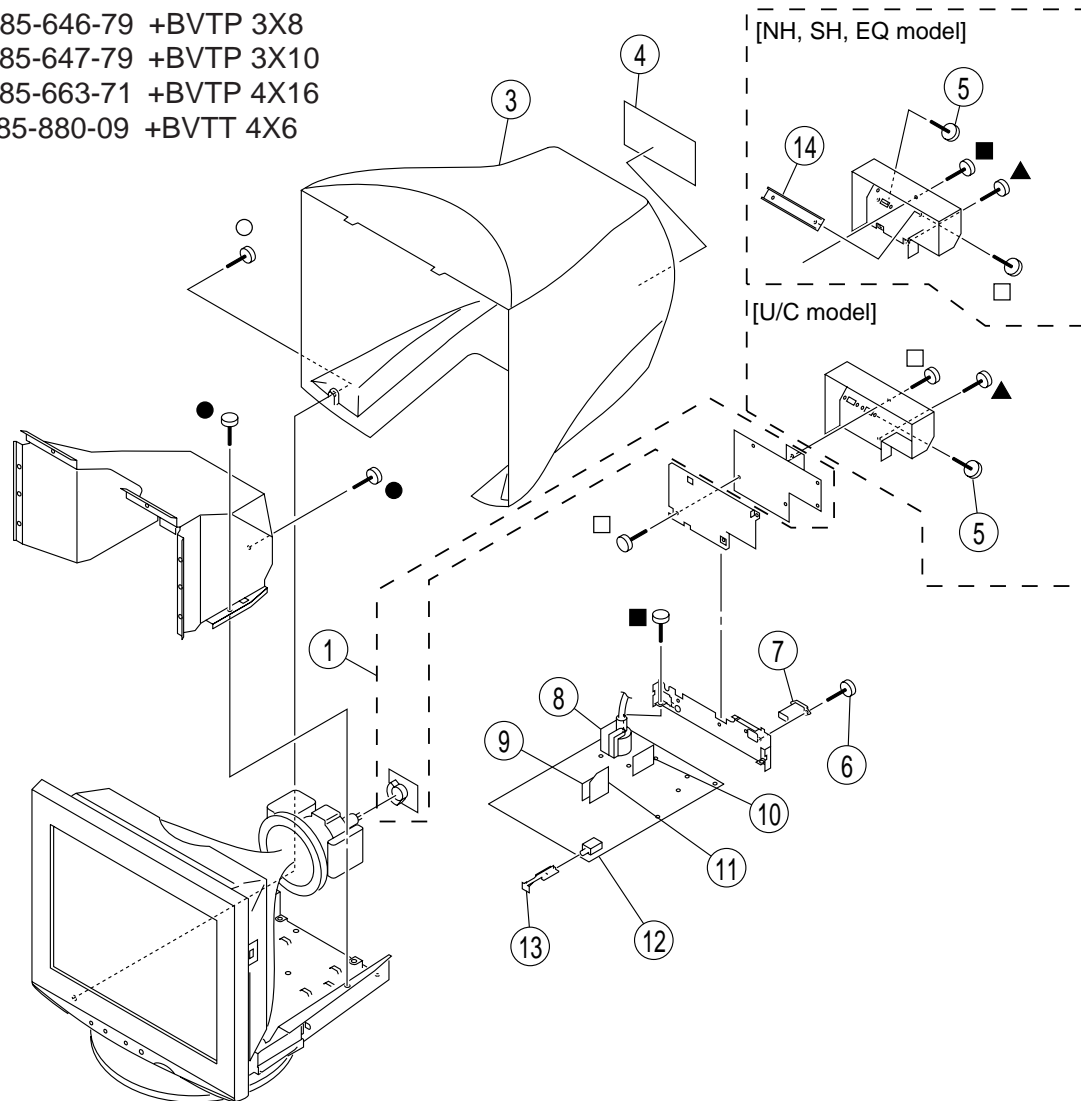
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified \triangle marked are critical for safety.
Replace only with the part number specified.

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

6-1. CHASSIS

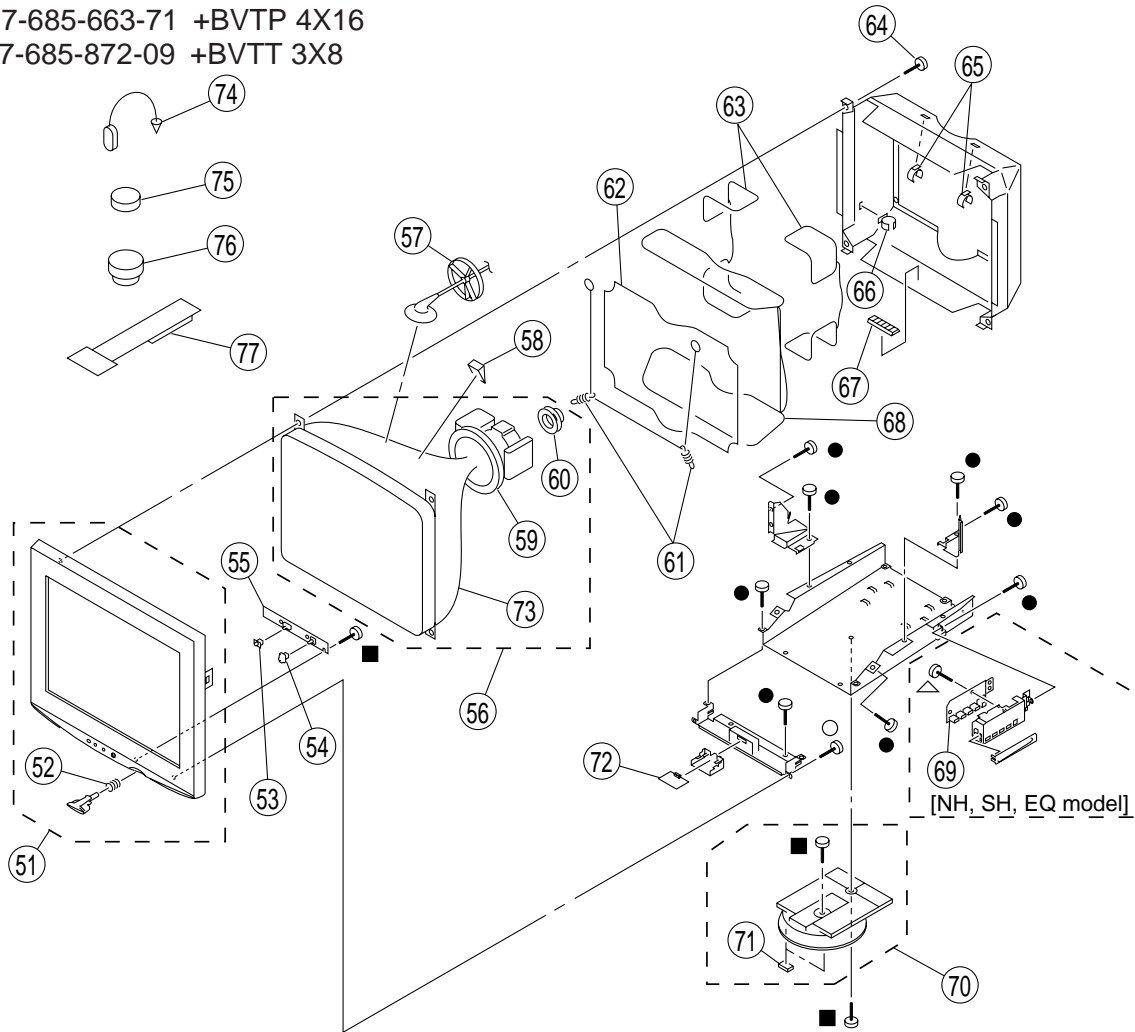
- 7-685-881-09 +BVTT 4X8
- 7-685-646-79 +BVTP 3X8
- 7-685-647-79 +BVTP 3X10
- 7-685-663-71 +BVTP 4X16
- ▲ 7-685-880-09 +BVTT 4X6



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|----------------|---------------------------------|--------|---------|--------------------------|--|--------|
| 1 | * 8-933-472-00 | A1 BOARD, COMPLETE [U/C] | | 7 | \triangle 1-251-382-31 | INLET, AC (WITH NOISE FILTER) | |
| 1 | * 8-933-488-00 | A1 BOARD, COMPLETE [NH, SH, EQ] | | 8 | \triangle 1-453-359-11 | TRANSFORMER ASSY, FLYBACK (NX-4702/KM7E) | |
| | 4-080-941-01 | CABINET [U/C] | | 9 | * 8-933-476-00 | DA BOARD, COMPLETE | |
| 3 | 4-079-817-21 | CABINET [NH, SH, EQ] | | 10 | * 8-933-479-00 | N BOARD, COMPLETE | |
| 4 | * 4-081-653-01 | LABEL, INFORMATION [U/C] | | 11 | * 8-933-481-00 | L2 BOARD, COMPLETE | |
| 4 | * 4-081-624-01 | LABEL, INFORMATION [NH] | | 12 | * 8-933-487-00 | D BOARD, COMPLETE [U/C] | |
| 4 | * 4-081-625-01 | LABEL, INFORMATION [SH] | | 12 | * 8-933-474-00 | D BOARD, COMPLETE [NH, SH, EQ] | |
| 4 | * 4-081-625-11 | LABEL, INFORMATION [EQ] | | 13 | 4-079-799-01 | BAR, EXTENSION | |
| 5 | * 4-635-966-01 | SCREW (HEX) | | 14 | 1-694-763-11 | TERMINAL BOARD ASSY, INPUT/OUT [NH, SH, EQ] | |
| 6 | 4-052-345-01 | SCREW, (3X8) (+K), TAPPING | | | | | |

6-2. PICTURE TUBE

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

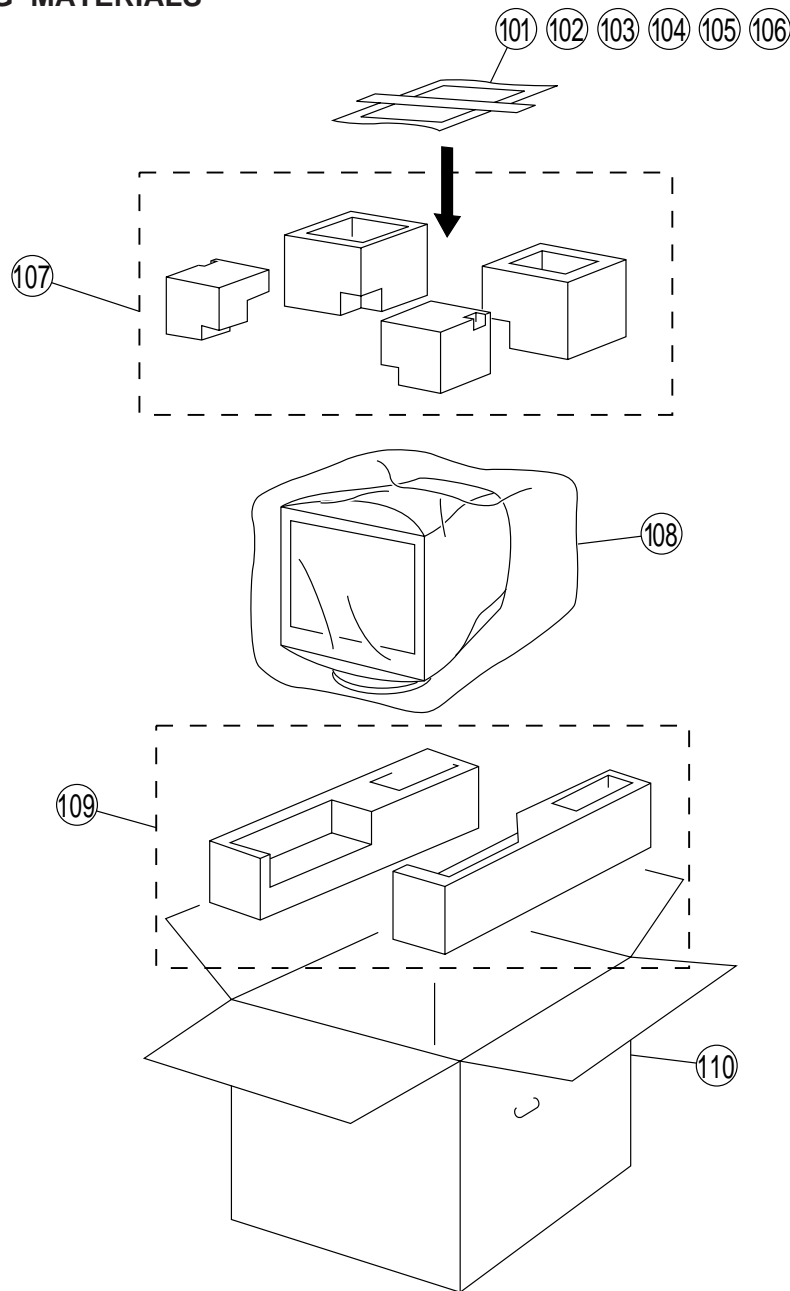


The components identified △ marked are critical for safety. Replace only with the part number specified.

Les composants identifiés par la 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 | X-4038-405-1 | BEZEL ASSY | 52 | 65 | 4-041-021-02 | HOLDER, DEGAUSE COIL | |
| 52 | 4-036-405-01 | SPRING COMPRESSION | | 66 | 4-071-175-01 | HOLDER, DGC | |
| 53 | 4-079-773-01 | BUTTON, INPUT SELECTOR | | 67 | 4-062-670-01 | SPACER, PICTURE TUBE | |
| 54 | 4-079-788-01 | STICK, JOY | | 68 | △ 1-419-838-11 | COIL, DEGAUSSING | |
| 55 | * 8-933-477-00 | H1 BOARD, COMPLETE | | 69 | * 8-933-480-00 | US BOARD, COMPLETE [NH, SH, EQ] | |
| 56 | 8-734-018-06 | ITC ASSY (21TKD-R1) [U/C, NH] | 59, 60, 73 | 70 | X-4038-402-1 | STAND ASSY | 71 |
| 56 | pending | ITC ASSY [SH, EQ] | 59, 60, 73 | 71 | * 4-061-996-01 | CUSHION | |
| 57 | 3-704-372-01 | HOLDER, HV CABLE | | 72 | △ 8-610-158-71 | SENSOR, MAGNETIC MIU-221D | |
| 58 | 2-162-100-21 | SPACER, DY | | 73 | △ 8-738-839-05 | PICTURE TUBE 21TKD [U/C, NH] | |
| 59 | △ 8-451-519-11 | DEFLECTION YOKE Y21TKN | | 73 | △ 8-738-847-05 | PICTURE TUBE 21TKD (SOUTH) | [SH, EQ] |
| 60 | △ 1-452-923-51 | NECK ASSEMBLY | | | | | |
| 61 | * 4-047-316-01 | SPRING, EXTENSION | | 74 | 4-308-870-00 | CLIP, LEAD WIRE | |
| 62 | △ 1-419-130-21 | COIL, LANDING CORRECTION | | 75 | 1-452-032-00 | MAGNET, DISK; 10mmφ | |
| 63 | △ 1-419-129-21 | COIL, LANDING CORRECTION | | 76 | 1-452-094-00 | MAGNET, ROTATABLE DISK; 15mmφ | |
| 64 | 4-365-808-01 | SCREW (5), TAPPING | | 77 | 4-051-736-21 | PIECE A (90), CORRECT | |

6-3. PACKING MATERIALS



The components identified Δ marked are critical for safety. Replace only with the part number specified.

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

| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|-----------------------|--------------------------------------|--------|---------|----------------|----------------------------------|--------|
| 101 | Δ 1-782-783-31 | CORD SET, POWER [U/C] | | 107 | * 4-078-355-01 | CUSHION (UPPER) (ASSY) [U/C, NH] | |
| 101 | Δ 1-782-784-21 | CORD SET, POWER [NH, EQ] | | 107 | * 4-081-714-01 | CUSHION (UPPER) (ASSY) [SH, EQ] | |
| 101 | Δ 1-782-785-11 | CORD SET, POWER [SH] | | 108 | * 4-041-927-31 | BAG, POLYETHYLENE | |
| 102 | Δ 1-785-512-31 | CONNECTOR, D SUB [NH, SH, EQ] | | 109 | * 4-078-356-01 | CUSHION (LOWER) (ASSY) [U/C, NH] | |
| 103 | Δ 1-790-081-21 | CABLE, USB [NH, SH, EQ] | | 109 | * 4-081-715-01 | CUSHION (LOWER) (ASSY) [SH, EQ] | |
| 104 | 4-079-771-21 | MANUAL, INSTRUCTION [U/C] | | 110 | * 4-078-363-01 | INDIVIDUAL CARTON [U/C] | |
| 104 | 4-079-771-51 | MANUAL, INSTRUCTION [NH] | | 110 | * 4-081-974-01 | INDIVIDUAL CARTON [NH] | |
| 104 | 4-079-771-61 | MANUAL, INSTRUCTION [SH, EQ] | | 110 | * 4-081-713-01 | INDIVIDUAL CARTON [SH, EQ] | |
| 106 | Δ 1-757-496-11 | CABLE ASSY (15P SUB X2 CONNECTOR) | | | | | |

SECTION 7 ELECTRICAL PARTS LIST

A1

NOTE:

The components identified Δ marked are critical for safety.
Replace only with the part number specified.

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

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

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

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

• 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 |
|-----------------------------|--------------|---------------------------------|------------------------|---------|--------------|---------------------------|--------------|
| A1 BOARD, COMPLETE ***** | | | | C048 | 1-163-021-91 | CERAMIC CHIP 0.01 μ F | 10% 50V |
| | | | | | | | [U/C] |
| | 4-382-854-11 | SCREW (3X10), P, SW (+) (IC002) | | C049 | 1-163-021-91 | CERAMIC CHIP 0.01 μ F | 10% 50V |
| <CAPACITOR> | | | | C050 | 1-115-339-11 | CERAMIC CHIP 0.1 μ F | 10% 50V |
| | C001 | 1-162-318-11 CERAMIC | 0.001 μ F 10% 500V | C051 | 1-115-339-11 | CERAMIC CHIP 0.1 μ F | 10% 50V |
| | C004 | 1-164-004-11 CERAMIC CHIP | 0.1 μ F 10% 25V | C053 | 1-164-004-11 | CERAMIC CHIP 0.1 μ F | 10% 25V |
| | C005 | 1-164-004-11 CERAMIC CHIP | 0.1 μ F 10% 25V | C054 | 1-164-004-11 | CERAMIC CHIP 0.1 μ F | 10% 25V |
| | C007 | 1-164-489-11 CERAMIC CHIP | 0.22 μ F 10% 16V | C055 | 1-163-235-11 | CERAMIC CHIP 22pF | 5% 50V |
| | C009 | 1-126-960-11 ELECT | 1 μ F 20% 50V | C057 | 1-104-664-11 | ELECT 47 μ F | 20% 25V |
| | C010 | 1-104-664-11 ELECT | 47 μ F 20% 10V | C058 | 1-163-224-11 | CERAMIC CHIP 7pF | 0.25pF 50V |
| | C011 | 1-106-220-00 MYLAR | 0.1 μ F 10% 100V | C059 | 1-164-004-11 | CERAMIC CHIP 0.1 μ F | 10% 25V |
| | C012 | 1-164-489-11 CERAMIC CHIP | 0.22 μ F 10% 16V | C061 | 1-163-255-11 | CERAMIC CHIP 150pF | 5% 50V |
| | C014 | 1-107-930-91 ELECT | 22 μ F 20% 100V | C062 | 1-164-004-11 | CERAMIC CHIP 0.1 μ F | 10% 25V |
| | C015 | 1-164-004-11 CERAMIC CHIP | 0.1 μ F 10% 25V | C063 | 1-163-021-91 | CERAMIC CHIP 0.01 μ F | 10% 50V |
| | C016 | 1-128-528-11 ELECT | 470 μ F 20% 16V | C064 | 1-126-382-11 | ELECT 100 μ F | 20% 16V |
| | C017 | 1-163-251-11 CERAMIC CHIP | 100pF 5% 50V | C065 | 1-107-882-91 | ELECT 100 μ F | 20% 16V |
| | C018 | 1-107-649-11 ELECT | 2.2 μ F 20% 250V | C090 | 1-163-021-91 | CERAMIC CHIP 0.01 μ F | 10% 50V |
| | C019 | 1-163-021-91 CERAMIC CHIP | 0.01 μ F 10% 50V | C091 | 1-126-960-11 | ELECT 1 μ F | 20% 50V |
| | C021 | 1-163-021-91 CERAMIC CHIP | 0.01 μ F 10% 50V | C092 | 1-163-021-91 | CERAMIC CHIP 0.01 μ F | 10% 50V |
| | C022 | 1-104-664-11 ELECT | 47 μ F 20% 10V | C101 | 1-163-233-11 | CERAMIC CHIP 18pF | 5% 50V |
| | C023 | 1-164-489-11 CERAMIC CHIP | 0.22 μ F 10% 16V | C105 | 1-164-004-11 | CERAMIC CHIP 0.1 μ F | 10% 25V |
| | C024 | 1-107-909-11 ELECT | 47 μ F 20% 16V | C106 | 1-117-450-11 | MYLAR 0.47 μ F | 10% 250V |
| | C025 | 1-163-021-91 CERAMIC CHIP | 0.01 μ F 10% 50V | C108 | 1-164-489-11 | CERAMIC CHIP 0.22 μ F | 10% 16V |
| | C026 | 1-163-227-11 CERAMIC CHIP | 10pF 0.5pF 50V | C109 | 1-104-664-11 | ELECT 47 μ F | 20% 25V |
| | C027 | 1-126-785-11 ELECT | 47 μ F 20% 10V | C111 | 1-163-251-11 | CERAMIC CHIP 100pF | 5% 50V |
| | C029 | 1-164-489-11 CERAMIC CHIP | 0.22 μ F 10% 16V | C120 | 1-104-664-11 | ELECT 47 μ F | 20% 25V |
| | C031 | 1-162-318-11 CERAMIC | 0.001 μ F 10% 500V | C123 | 1-136-189-00 | MYLAR 0.1 μ F | 10% 250V |
| | C032 | 1-164-004-11 CERAMIC CHIP | 0.1 μ F 10% 25V | C130 | 1-164-489-11 | CERAMIC CHIP 0.22 μ F | 10% 16V |
| | C033 | 1-164-004-11 CERAMIC CHIP | 0.1 μ F 10% 25V | C152 | 1-104-664-11 | ELECT 47 μ F | 20% 25V |
| | | | [U/C] | C201 | 1-163-233-11 | CERAMIC CHIP 18pF | 5% 50V |
| | C035 | 1-104-574-11 CERAMIC | 0.0047 μ F 10% 2KV | C205 | 1-164-004-11 | CERAMIC CHIP 0.1 μ F | 10% 25V |
| | C036 | 1-163-251-11 CERAMIC CHIP | 100pF 5% 50V | C206 | 1-117-450-11 | MYLAR 0.47 μ F | 10% 250V |
| | C037 | 1-164-004-11 CERAMIC CHIP | 0.1 μ F 10% 25V | C208 | 1-164-489-11 | CERAMIC CHIP 0.22 μ F | 10% 16V |
| | C038 | 1-163-017-00 CERAMIC CHIP | 0.0047 μ F 10% 50V | C211 | 1-163-251-11 | CERAMIC CHIP 100pF | 5% 50V |
| | C039 | 1-115-339-11 CERAMIC CHIP | 0.1 μ F 10% 50V | C220 | 1-104-664-11 | ELECT 47 μ F | 20% 25V |
| | C040 | 1-163-021-91 CERAMIC CHIP | 0.01 μ F 10% 50V | C223 | 1-136-189-00 | MYLAR 0.1 μ F | 10% 250V |
| | C042 | 1-115-339-11 CERAMIC CHIP | 0.1 μ F 10% 50V | C230 | 1-164-489-11 | CERAMIC CHIP 0.22 μ F | 10% 16V |
| | C043 | 1-164-004-11 CERAMIC CHIP | 0.1 μ F 10% 25V | C231 | 1-163-085-00 | CERAMIC CHIP 2pF | 0.25pF 50V |
| | C045 | 1-164-004-11 CERAMIC CHIP | 0.1 μ F 10% 25V | | | | [NH, SH, EQ] |
| | C046 | 1-163-021-91 CERAMIC CHIP | 0.01 μ F 10% 50V | C252 | 1-104-664-11 | ELECT 47 μ F | 20% 25V |
| | | | | C301 | 1-163-231-11 | CERAMIC CHIP 15pF | 5% 50V |
| | | | | C305 | 1-164-004-11 | CERAMIC CHIP 0.1 μ F | 10% 25V |



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

The components identified Δ marked are critical for safety. Replace only with the part number specified.

| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|------------------------------|----------|---------|--------------|---------------------|--------|
| C306 | 1-117-450-11 | MYLAR 0.47 μ F | 10% 250V | FB004 | 1-412-911-11 | FERRITE 1.1 μ H | |
| C308 | 1-164-489-11 | CERAMIC CHIP 0.22 μ F | 10% 16V | FB005 | 1-412-911-11 | FERRITE 1.1 μ H | |
| C311 | 1-163-251-11 | CERAMIC CHIP 100pF | 5% 50V | FB006 | 1-216-295-11 | SHORT 0 | |
| C319 | 1-163-021-91 | CERAMIC CHIP 0.01 μ F | 10% 50V | | | | |
| C320 | 1-104-664-11 | ELECT 47 μ F | 20% 25V | FB007 | 1-216-295-11 | SHORT 0 | |
| | | | | FB008 | 1-216-295-11 | SHORT 0 | |
| C323 | 1-136-189-00 | MYLAR 0.1 μ F | 10% 250V | FB009 | 1-414-231-22 | INDUCTOR | |
| C330 | 1-164-489-11 | CERAMIC CHIP 0.22 μ F | 10% 16V | FB101 | 1-216-295-11 | SHORT 0 | |
| C352 | 1-104-664-11 | ELECT 47 μ F | 20% 25V | FB102 | 1-469-965-21 | INDUCTOR | |
| | | | | | | | |
| | | <CONNECTOR> | | FB103 | 1-469-965-21 | INDUCTOR | |
| | | | | FB104 | 1-412-911-11 | FERRITE 1.1 μ H | |
| CN303 | 1-695-915-11 | TAB (CONTACT) | | FB110 | 1-412-911-11 | FERRITE 1.1 μ H | |
| CN315* | 1-778-682-11 | PIN, CONNECTOR (PC BOARD) 8P | | FB201 | 1-216-295-11 | SHORT 0 | |
| CN318 | 1-764-101-11 | PIN, CONNECTOR (PC BOARD) 2P | | FB202 | 1-469-965-21 | INDUCTOR | |
| | | | | | | | |
| | | <DIODE> | | FB203 | 1-469-965-21 | INDUCTOR | |
| D001 | 8-719-801-78 | DIODE 1SS184 [U/C] | | FB210 | 1-412-911-11 | FERRITE 1.1 μ H | |
| D002 | 8-719-109-89 | ZENER DIODE RD5.6ESB2 | | FB301 | 1-216-295-11 | SHORT 0 | |
| D003 | 8-719-109-89 | ZENER DIODE RD5.6ESB2 [U/C] | | FB302 | 1-469-965-21 | INDUCTOR | |
| D004 | 8-719-062-51 | DIODE 1PS226-115 | | FB303 | 1-469-965-21 | INDUCTOR | |
| D005 | 8-719-062-51 | DIODE 1PS226-115 [U/C] | | | | | |
| | | | | | | | |
| D006 | 8-719-801-78 | DIODE 1SS184 | | | | | |
| D007 | 8-719-109-89 | ZENER DIODE RD5.6ESB2 [U/C] | | | | | |
| D008 | 8-719-109-89 | ZENER DIODE RD5.6ESB2 [U/C] | | FB310 | 1-412-911-11 | FERRITE 1.1 μ H | |
| D009 | 8-719-109-89 | ZENER DIODE RD5.6ESB2 | | | | | |
| D010 | 8-719-109-89 | ZENER DIODE RD5.6ESB2 | | | | | |
| | | | | | | | |
| D011 | 8-719-109-89 | ZENER DIODE RD5.6ESB2 | | | | | |
| D012 | 8-719-062-51 | DIODE 1PS226-115 | | | | | |
| D013 | 8-719-911-19 | DIODE 1SS119-25 | | | | | |
| D014 | 8-719-911-19 | DIODE 1SS119-25 | | | | | |
| D016 | 8-719-109-89 | ZENER DIODE RD5.6ESB2 | | | | | |
| | | | | | | | |
| D019 | 8-719-062-51 | DIODE 1PS226-115 | | | | | |
| D101 | 8-719-062-51 | DIODE 1PS226-115 | | | | | |
| D104 | 8-719-052-12 | DIODE 1SS376TE-17 | | | | | |
| D105 | 8-719-052-12 | DIODE 1SS376TE-17 | | | | | |
| D106 | 8-719-970-83 | DIODE HSS82-TJ | | | | | |
| | | | | | | | |
| D108 | 8-719-066-10 | DIODE 1PS181-115 | | | | | |
| D111 | 8-719-062-51 | DIODE 1PS226-115 | | | | | |
| D201 | 8-719-062-51 | DIODE 1PS226-115 | | | | | |
| D204 | 8-719-052-12 | DIODE 1SS376TE-17 | | | | | |
| D205 | 8-719-052-12 | DIODE 1SS376TE-17 | | | | | |
| | | | | | | | |
| D206 | 8-719-970-83 | DIODE HSS82-TJ | | | | | |
| D208 | 8-719-066-10 | DIODE 1PS181-115 | | | | | |
| D211 | 8-719-062-51 | DIODE 1PS226-115 | | | | | |
| D301 | 8-719-062-51 | DIODE 1PS226-115 | | | | | |
| D304 | 8-719-052-12 | DIODE 1SS376TE-17 | | | | | |
| | | | | | | | |
| D305 | 8-719-052-12 | DIODE 1SS376TE-17 | | | | | |
| D306 | 8-719-970-83 | DIODE HSS82-TJ | | | | | |
| D308 | 8-719-066-10 | DIODE 1PS181-115 | | | | | |
| D311 | 8-719-062-51 | DIODE 1PS226-115 | | | | | |
| | | | | | | | |
| | | <FERRITE BEAD> | | | | | |
| FB002 | 1-216-295-11 | SHORT 0 | | JR001 | 1-216-296-91 | SHORT 0 | |
| FB003 | 1-412-911-11 | FERRITE 1.1 μ H | | JR002 | 1-216-296-91 | SHORT 0 | |
| | | | | JR005 | 1-216-296-91 | SHORT 0 | |
| | | | | JR007 | 1-216-295-11 | SHORT 0 | |
| | | | | JR008 | 1-216-296-91 | SHORT 0 | |
| | | | | | | | |
| | | | | JR009 | 1-216-296-91 | SHORT 0 | |
| | | | | JR010 | 1-216-295-11 | SHORT 0 | |
| | | | | JR011 | 1-216-296-91 | SHORT 0 [U/C] | |
| | | | | JR012 | 1-216-296-91 | SHORT 0 [U/C] | |
| | | | | JR013 | 1-216-296-91 | SHORT 0 [U/C] | |
| | | | | | | | |
| | | | | JR014 | 1-216-296-91 | SHORT 0 [U/C] | |
| | | | | JR015 | 1-216-295-11 | SHORT 0 | |
| | | | | JR016 | 1-216-296-91 | SHORT 0 | |
| | | | | JR017 | 1-216-296-91 | SHORT 0 | |
| | | | | JR019 | 1-216-296-91 | SHORT 0 | |
| | | | | | | | |
| | | | | JR020 | 1-216-296-91 | SHORT 0 | |
| | | | | JR021 | 1-216-296-91 | SHORT 0 | |



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|-------------------------|---------|---------|--------------|-------------|-----------------|
| JR022 | 1-216-295-11 | SHORT | 0 | R030 | 1-216-295-11 | SHORT | 0 [U/C] |
| JR023 | 1-216-295-11 | SHORT | 0 | R031 | 1-216-077-91 | RES-CHIP | 15K 5% 1/10W |
| JR024 | 1-216-296-91 | SHORT | 0 | R032 | 1-260-316-51 | CARBON | 100 5% 1/2W |
| JR025 | 1-216-296-91 | SHORT | 0 | R033 | 1-216-651-11 | METAL CHIP | 1K 0.5% 1/10W |
| JR026 | 1-216-295-11 | SHORT | 0 | R034 | 1-216-055-00 | RES-CHIP | 1.8K 5% 1/10W |
| JR027 | 1-216-296-91 | SHORT | 0 | R038 | 1-216-017-91 | RES-CHIP | 47 5% 1/10W |
| JR028 | 1-216-296-91 | SHORT | 0 | R039 | 1-216-017-91 | RES-CHIP | 47 5% 1/10W |
| JR029 | 1-216-295-11 | SHORT | 0 | R051 | 1-216-121-11 | RES-CHIP | 1M 5% 1/10W |
| JR030 | 1-216-296-91 | SHORT | 0 | R052 | 1-259-884-11 | CARBON | 4.7M 5% 1/4W |
| | | <COIL> | | R053 | 1-216-627-11 | METAL CHIP | 100 0.5% 1/10W |
| L001 | 1-412-537-31 | INDUCTOR | 100μH | R054 | 1-260-103-11 | CARBON | 2.2K 5% 1/2W |
| L002 | 1-412-549-11 | INDUCTOR | 1mH | R055 | 1-216-295-11 | SHORT | 0 |
| L003 | 1-412-537-31 | INDUCTOR | 100μH | R058 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| L004 | 1-412-529-11 | INDUCTOR | 22μH | R059 | 1-216-057-00 | RES-CHIP | 2.2K 5% 1/10W |
| L005 | 1-412-537-31 | INDUCTOR | 100μH | R060 | 1-216-295-11 | SHORT | 0 |
| L006 | 1-412-537-31 | INDUCTOR | 100μH | R064 | 1-260-127-11 | CARBON | 220K 5% 1/2W |
| L007 | 1-412-537-31 | INDUCTOR | 100μH | R077 | 1-216-077-91 | RES-CHIP | 15K 5% 1/10W |
| | | <TRANSISTOR> | | R078 | 1-216-668-11 | METAL CHIP | 5.1K 0.5% 1/10W |
| Q101 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | R079 | 1-216-663-11 | METAL CHIP | 3.3K 0.5% 1/10W |
| Q201 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | R080 | 1-216-661-11 | METAL CHIP | 2.7K 0.5% 1/10W |
| Q301 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | R082 | 1-216-369-00 | METAL OXIDE | 1 5% 2W |
| | | <RESISTOR> | | R092 | 1-216-077-91 | RES-CHIP | 15K 5% 1/10W |
| R001 | 1-216-077-91 | RES-CHIP | 15K 5% | R095 | 1-216-295-11 | SHORT | 0 |
| | | | | R097 | 1-216-295-11 | SHORT | 0 |
| R002 | 1-216-077-91 | RES-CHIP | 15K 5% | R098 | 1-216-089-11 | RES-CHIP | 47K 5% 1/10W |
| | | | | R101 | 1-215-395-00 | METAL | 82 1% 1/4W |
| R003 | 1-216-025-11 | RES-CHIP | 100 5% | R104 | 1-216-059-00 | RES-CHIP | 2.7K 5% 1/10W |
| R006 | 1-260-316-51 | CARBON | 100 5% | R106 | 1-249-436-11 | CARBON | 39K 5% 1/4W |
| R007 | 1-216-025-11 | RES-CHIP | 100 5% | R107 | 1-216-085-00 | RES-CHIP | 33K 5% 1/10W |
| | | | | R108 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W |
| R008 | 1-216-025-11 | RES-CHIP | 100 5% | R109 | 1-216-121-11 | RES-CHIP | 1M 5% 1/10W |
| R010 | 1-216-025-11 | RES-CHIP | 100 5% | R110 | 1-216-037-00 | RES-CHIP | 330 5% 1/10W |
| R011 | 1-216-057-00 | RES-CHIP | 2.2K 5% | R111 | 1-249-402-11 | CARBON | 56 5% 1/4W |
| R012 | 1-216-057-00 | RES-CHIP | 2.2K 5% | R115 | 1-216-081-00 | RES-CHIP | 22K 5% 1/10W |
| R013 | 1-216-025-11 | RES-CHIP | 100 5% | R117 | 1-216-013-00 | RES-CHIP | 33 5% 1/10W |
| | | | | R118 | 1-216-009-91 | RES-CHIP | 22 5% 1/10W |
| R014 | 1-260-316-51 | CARBON | 100 5% | R119 | 1-216-113-00 | RES-CHIP | 470K 5% 1/10W |
| R015 | 1-216-057-00 | RES-CHIP | 2.2K 5% | R120 | 1-216-113-00 | RES-CHIP | 470K 5% 1/10W |
| R016 | 1-216-057-00 | RES-CHIP | 2.2K 5% | R121 | 1-216-113-00 | RES-CHIP | 470K 5% 1/10W |
| R017 | 1-216-025-11 | RES-CHIP | 100 5% | R122 | 1-216-121-11 | RES-CHIP | 1M 5% 1/10W |
| R018 | 1-216-025-11 | RES-CHIP | 100 5% | R123 | 1-249-416-11 | CARBON | 820 5% 1/4W |
| | | | | R130 | 1-249-399-11 | CARBON | 33 5% 1/4W |
| R019 | 1-216-071-00 | RES-CHIP | 8.2K 5% | R133 | 1-469-965-21 | INDUCTOR | |
| R020 | 1-216-025-11 | RES-CHIP | 100 5% | R140 | 1-249-399-11 | CARBON | 33 5% 1/4W |
| R021 | 1-216-025-11 | RES-CHIP | 100 5% | R151 | 1-219-742-11 | CARBON | 47 5% 1/2W |
| R022 | 1-216-295-11 | SHORT | 0 | R161 | 1-215-395-00 | METAL | 82 1% 1/4W |
| R023 | 1-216-049-11 | RES-CHIP | 1K 5% | R163 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| | | | | R164 | 1-216-099-00 | RES-CHIP | 120K 5% 1/10W |
| R024 | 1-216-065-91 | RES-CHIP | 4.7K 5% | R201 | 1-215-395-00 | METAL | 82 1% 1/4W |
| R025 | 1-216-065-91 | RES-CHIP | 4.7K 5% | R202 | 1-216-041-00 | METAL CHIP | 470 5% 1/10W |
| R027 | 1-216-017-91 | RES-CHIP | 47 5% | | | | [NH, SH, EQ] |
| | | | | R204 | 1-216-059-00 | RES-CHIP | 2.7K 5% 1/10W |
| R028 | 1-216-017-91 | RES-CHIP | 47 5% | R206 | 1-249-436-11 | CARBON | 39K 5% 1/4W |
| | | | | R207 | 1-216-085-00 | RES-CHIP | 33K 5% 1/10W |
| | | | | R208 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W |
| | | | | R209 | 1-216-121-11 | RES-CHIP | 1M 5% 1/10W |



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|------------------------------|---------------|---------|--------------|-----------------------------|----------|
| R210 | 1-216-045-00 | RES-CHIP | 680 5% 1/10W | | | DA BOARD, COMPLETE ***** | |
| R211 | 1-249-403-11 | CARBON | 68 5% 1/4W | | | | |
| R215 | 1-216-081-00 | RES-CHIP | 22K 5% 1/10W | | | | |
| R217 | 1-216-013-00 | RES-CHIP | 33 5% 1/10W | | | | |
| R218 | 1-216-017-91 | RES-CHIP | 47 5% 1/10W | | | | |
| R219 | 1-216-113-00 | RES-CHIP | 470K 5% 1/10W | | | <CAPACITOR> | |
| R220 | 1-216-113-00 | RES-CHIP | 470K 5% 1/10W | C1101 | 1-164-004-11 | CERAMIC CHIP 0.1µF | 10% 25V |
| R221 | 1-216-113-00 | RES-CHIP | 470K 5% 1/10W | C1102 | 1-164-004-11 | CERAMIC CHIP 0.1µF | 10% 25V |
| R222 | 1-216-121-11 | RES-CHIP | 1M 5% 1/10W | C1103 | 1-164-004-11 | CERAMIC CHIP 0.1µF | 10% 25V |
| R223 | 1-249-416-11 | CARBON | 820 5% 1/4W | C1104 | 1-164-004-11 | CERAMIC CHIP 0.1µF | 10% 25V |
| R230 | 1-249-399-11 | CARBON | 33 5% 1/4W | C1105 | 1-163-021-91 | CERAMIC CHIP 0.01µF | 10% 50V |
| R233 | 1-469-965-21 | INDUCTOR | | C1108 | 1-163-021-91 | CERAMIC CHIP 0.01µF | 10% 50V |
| R240 | 1-249-399-11 | CARBON | 33 5% 1/4W | C1109 | 1-163-021-91 | CERAMIC CHIP 0.01µF | 10% 50V |
| R251 | 1-219-742-11 | CARBON | 47 5% 1/2W | C1110 | 1-163-021-91 | CERAMIC CHIP 0.01µF | 10% 50V |
| R261 | 1-215-395-00 | METAL | 82 1% 1/4W | C1111 | 1-163-021-91 | CERAMIC CHIP 0.01µF | 10% 50V |
| R263 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | C1112 | 1-164-004-11 | CERAMIC CHIP 0.1µF | 10% 25V |
| R264 | 1-216-099-00 | RES-CHIP | 120K 5% 1/10W | C1113 | 1-163-021-91 | CERAMIC CHIP 0.01µF | 10% 50V |
| R301 | 1-215-395-00 | METAL | 82 1% 1/4W | C1114 | 1-163-017-00 | CERAMIC CHIP 0.0047µF | 10% 50V |
| R304 | 1-216-059-00 | RES-CHIP | 2.7K 5% 1/10W | C1115 | 1-163-021-91 | CERAMIC CHIP 0.01µF | 10% 50V |
| R306 | 1-249-436-11 | CARBON | 39K 5% 1/4W | C1116 | 1-163-021-91 | CERAMIC CHIP 0.01µF | 10% 50V |
| R307 | 1-216-085-00 | RES-CHIP | 33K 5% 1/10W | C1117 | 1-163-019-00 | CERAMIC CHIP 0.0068µF | 10% 50V |
| R308 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W | C1118 | 1-164-004-11 | CERAMIC CHIP 0.1µF | 10% 25V |
| R309 | 1-216-121-11 | RES-CHIP | 1M 5% 1/10W | C1119 | 1-163-021-91 | CERAMIC CHIP 0.01µF | 10% 50V |
| R310 | 1-216-037-00 | RES-CHIP | 330 5% 1/10W | C1120 | 1-163-251-11 | CERAMIC CHIP 100pF | 5% 50V |
| R311 | 1-249-402-11 | CARBON | 56 5% 1/4W | C1121 | 1-163-019-00 | CERAMIC CHIP 0.0068µF | 10% 50V |
| R315 | 1-216-081-00 | RES-CHIP | 22K 5% 1/10W | C1122 | 1-164-004-11 | CERAMIC CHIP 0.1µF | 10% 25V |
| R317 | 1-216-013-00 | RES-CHIP | 33 5% 1/10W | C1123 | 1-164-004-11 | CERAMIC CHIP 0.1µF | 10% 25V |
| R318 | 1-216-019-00 | RES-CHIP | 56 5% 1/10W | C1124 | 1-163-005-11 | CERAMIC CHIP 47pF | 10% 50V |
| R319 | 1-216-113-00 | RES-CHIP | 470K 5% 1/10W | C1125 | 1-163-021-91 | CERAMIC CHIP 0.01µF | 10% 50V |
| R320 | 1-216-113-00 | RES-CHIP | 470K 5% 1/10W | C1126 | 1-163-021-91 | CERAMIC CHIP 0.01µF | 10% 50V |
| R321 | 1-216-113-00 | RES-CHIP | 470K 5% 1/10W | C1127 | 1-125-838-11 | CERAMIC CHIP 2.2µF | 10% 6.3V |
| R322 | 1-216-121-11 | RES-CHIP | 1M 5% 1/10W | C1128 | 1-126-246-11 | ELECT 220µF | 20% 4V |
| R323 | 1-249-416-11 | CARBON | 820 5% 1/4W | C1129 | 1-163-007-11 | CERAMIC CHIP 680pF | 10% 50V |
| R330 | 1-249-399-11 | CARBON | 33 5% 1/4W | C1130 | 1-164-492-11 | CERAMIC CHIP 0.15µF | 10% 16V |
| R333 | 1-469-965-21 | INDUCTOR | | C1131 | 1-164-004-11 | CERAMIC CHIP 0.1µF | 10% 25V |
| R340 | 1-249-399-11 | CARBON | 33 5% 1/4W | C1132 | 1-163-021-91 | CERAMIC CHIP 0.01µF | 10% 50V |
| R351 | 1-219-742-11 | CARBON | 47 5% 1/2W | C1133 | 1-126-246-11 | ELECT 220µF | 20% 4V |
| R361 | 1-215-395-00 | METAL | 82 1% 1/4W | C1137 | 1-126-205-11 | ELECT 47µF | 20% 6.3V |
| R363 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | C1138 | 1-163-251-11 | CERAMIC CHIP 100pF | 5% 50V |
| R364 | 1-216-099-00 | RES-CHIP | 120K 5% 1/10W | C1139 | 1-164-004-11 | CERAMIC CHIP 0.1µF | 10% 25V |
| | | | | C1140 | 1-163-251-11 | CERAMIC CHIP 100pF | 5% 50V |
| | | <SPARK GAP> | | | | <DIODE> | |
| SG001 | 1-519-422-11 | SPARK GAP | | D1104 | 8-719-027-76 | DIODE 1SS357-TPH3 | |
| SG002 | 1-576-354-21 | SPARK GAP | | D1105 | 8-719-067-40 | ZENER DIODE STZ6.8N-T146 | |
| SG101 | 1-576-354-21 | SPARK GAP | | D1106 | 8-719-067-40 | ZENER DIODE STZ6.8N-T146 | |
| SG201 | 1-576-354-21 | SPARK GAP | | D1107 | 8-719-067-40 | ZENER DIODE STZ6.8N-T146 | |
| SG301 | 1-576-354-21 | SPARK GAP | | | | <FERRITE BEAD> | |
| | | <CRYSTAL> | | FB1101 | 1-543-963-22 | FERRITE | |
| X001 | 1-760-682-21 | VIBRATOR, CRYSTAL (24.5 MHz) | | | | <IC> | |
| | | | | IC1101 | 8-759-697-78 | IC CXD9563Q | |
| | | | | IC1102 | 8-759-701-01 | IC NJM2904M | |



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|-----------------------------|--------------|--------------------------|-----------------|----------------------------|--|-------------------|--------|
| <RESISTOR> | | | | D BOARD, COMPLETE ***** | | | |
| R1101 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | 3-710-578-01 | COVER, VOLUME, 6 MOLD (RV901) | | |
| R1102 | 1-216-057-00 | RES-CHIP | 2.2K 5% 1/10W | 4-382-854-01 | SCREW (3X8), P, SW (+) (D610, IC654, Q640, Q641, R510) | | |
| R1103 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | 4-382-854-11 | SCREW (3X10), P, SW (+) (D504, D652, D680, IC401, IC703, Q505, Q506, Q511, Q512, Q513, Q514, Q630, Q704, Q705, Q901, Q902, R909) | | |
| R1106 | 1-216-691-11 | METAL CHIP | 47K 0.5% 1/10W | * 7-322-065-48 | RUBBER, SILICONE RTV (KE-3490) (RV901) [AEP, NH, SH, EQ, U/C for Japan-made set] | | |
| R1108 | 1-216-067-00 | RES-CHIP | 5.6K 5% 1/10W | 7-682-950-01 | +PSW 3X12 (IC610) | | |
| R1109 | 1-216-067-00 | RES-CHIP | 5.6K 5% 1/10W | <CAPACITOR> | | | |
| R1110 | 1-216-675-91 | METAL CHIP | 10K 0.5% 1/10W | C401 | 1-128-528-11 ELECT | 470µF 20% 25V | |
| R1111 | 1-216-673-11 | METAL CHIP | 8.2K 0.5% 1/10W | C402 | 1-130-785-11 MYLAR | 0.47µF 10% 100V | |
| R1112 | 1-216-073-00 | RES-CHIP | 10K 5% 1/10W | C403 | 1-107-911-11 ELECT | 220µF 20% 50V | |
| R1113 | 1-216-665-11 | METAL CHIP | 3.9K 0.5% 1/10W | C404 | 1-128-528-11 ELECT | 470µF 20% 25V | |
| R1114 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | C405 | 1-163-009-11 CERAMIC CHIP | 0.001µF 10% 50V | |
| R1115 | 1-216-691-11 | METAL CHIP | 47K 0.5% 1/10W | C406 | 1-137-366-11 MYLAR | 0.0022µF 5% 50V | |
| R1116 | 1-216-655-11 | METAL CHIP | 1.5K 0.5% 1/10W | C407 | 1-164-161-11 CERAMIC CHIP | 0.0022µF 10% 50V | |
| R1118 | 1-216-057-00 | RES-CHIP | 2.2K 5% 1/10W | C408 | 1-163-222-11 CERAMIC CHIP | 5pF 0.25pF 50V | |
| R1119 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | C500 | 1-163-259-91 CERAMIC CHIP | 220pF 5% 50V | |
| R1122 | 1-216-659-11 | METAL CHIP | 2.2K 0.5% 1/10W | C502 | 1-137-150-11 MYLAR | 0.01µF 5% 50V | |
| R1123 | 1-216-656-11 | METAL CHIP | 1.6K 0.5% 1/10W | C503 | 1-130-495-00 MYLAR | 0.1µF 5% 50V | |
| R1124 | 1-216-643-11 | METAL CHIP | 470 0.5% 1/10W | C504 | 1-137-368-11 MYLAR | 0.0047µF 5% 50V | |
| R1125 | 1-216-659-11 | METAL CHIP | 2.2K 0.5% 1/10W | C505 | 1-126-949-11 ELECT | 220µF 20% 35V | |
| R1126 | 1-216-642-11 | METAL CHIP | 430 0.5% 1/10W | C506 | 1-127-810-51 ELECT | 22µF 20% 250V | |
| R1127 | 1-216-073-00 | RES-CHIP | 10K 5% 1/10W | C507 | 1-136-207-11 MYLAR | 0.047µF 5% 400V | |
| R1128 | 1-216-105-91 | RES-CHIP | 220K 5% 1/10W | C508 | 1-137-715-11 FILM | 3300pF 3% 1.8KV | |
| R1129 | 1-216-683-11 | METAL CHIP | 22K 0.5% 1/10W | C509 | 1-107-444-11 CERAMIC | 100pF 5% 2KV | |
| R1131 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | C510 | 1-136-684-51 MYLAR | 0.0022µF 10% 100V | |
| R1132 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | C511 | 1-163-038-11 CERAMIC CHIP | 0.1µF 25V | |
| R1133 | 1-216-121-11 | RES-CHIP | 1M 5% 1/10W | C512 | 1-163-005-11 CERAMIC CHIP | 470pF 10% 50V | |
| R1134 | 1-216-663-11 | METAL CHIP | 3.3K 0.5% 1/10W | C513 | 1-163-038-11 CERAMIC CHIP | 0.1µF 25V | |
| R1135 | 1-216-121-11 | RES-CHIP | 1M 5% 1/10W | C514 | 1-137-368-11 MYLAR | 0.0047µF 5% 50V | |
| R1136 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | C515 | 1-163-021-91 CERAMIC CHIP | 0.01µF 10% 50V | |
| R1137 | 1-218-758-11 | METAL CHIP | 180K 0.5% 1/10W | C516 | 1-126-934-11 ELECT | 220µF 20% 16V | |
| R1139 | 1-216-691-11 | METAL CHIP | 47K 0.5% 1/10W | C517 | 1-163-133-00 CERAMIC CHIP | 470pF 5% 50V | |
| R1141 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | C519 | 1-163-017-00 CERAMIC CHIP | 0.0047µF 10% 50V | |
| R1142 | 1-216-295-11 | SHORT | 0 | C520 | 1-163-023-00 CERAMIC CHIP | 0.015µF 10% 50V | |
| <COMPOSITION CIRCUIT BLOCK> | | | | C521 | 1-163-021-91 CERAMIC CHIP | 0.01µF 10% 50V | |
| RB1101 | 1-233-576-11 | NETWORK, RESISTOR (CHIP) | 100 | C522 | 1-126-965-11 ELECT | 22µF 20% 50V | |
| RB1102 | 1-233-412-11 | NETWORK, RESISTOR (CHIP) | 1.0K (3216) | C524 | 1-126-941-11 ELECT | 470µF 20% 25V | |
| RB1103 | 1-233-412-11 | NETWORK, RESISTOR (CHIP) | 1.0K (3216) | C525 | 1-164-004-11 CERAMIC CHIP | 0.1µF 10% 25V | |
| RB1104 | 1-233-576-11 | NETWORK, RESISTOR (CHIP) | 100 | C533 | 1-163-017-00 CERAMIC CHIP | 0.0047µF 10% 50V | |
| RB1105 | 1-233-576-11 | NETWORK, RESISTOR (CHIP) | 100 | C534 | 1-163-021-91 CERAMIC CHIP | 0.01µF 10% 50V | |
| RB1106 | 1-233-412-11 | NETWORK, RESISTOR (CHIP) | 1.0K (3216) | C535 | 1-164-004-11 CERAMIC CHIP | 0.1µF 10% 25V | |
| ***** | | | | C536 | 1-107-665-11 ELECT | 0.47µF 20% 400V | |
| | | | | C537 | 1-137-868-11 FILM | 0.13µF 5% 400V | |
| | | | | C538 | 1-107-651-11 ELECT | 4.7µF 20% 250V | |
| | | | | C539 | 1-115-356-11 FILM | 1.2µF 5% 250V | |
| | | | | C540 | 1-107-888-11 ELECT | 47µF 20% 25V | |
| | | | | C541 | 1-115-521-11 FILM | 0.82µF 5% 250V | |
| | | | | C542 | 1-164-346-11 CERAMIC CHIP | 1µF 16V | |
| | | | | C543 | 1-117-666-11 FILM | 0.39µF 5% 250V | |



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

The components identified Δ marked are critical for safety.
Replace only with the part number specified.

| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------------|--------------|---------------------------------|--------------|---------|--------------|--------------------------------|--------|
| C544 | 1-164-005-11 | CERAMIC CHIP 0.47 μ F | 16V | C681 | 1-107-889-11 | ELECT 220 μ F 20% | 10V |
| C545 | 1-117-662-11 | FILM 0.18 μ F 5% | 250V | C682 | 1-137-368-11 | MYLAR 0.0047 μ F 5% | 50V |
| C546 | 1-164-222-11 | CERAMIC CHIP 0.22 μ F | 25V | C683 | 1-115-706-11 | ELECT 220 μ F 20% | 6.3V |
| C547 | 1-119-860-11 | FILM 0.082 μ F 5% | 250V | C686 | 1-115-706-11 | ELECT 220 μ F 20% | 6.3V |
| C548 | 1-163-021-91 | CERAMIC CHIP 0.01 μ F 10% | 50V | C687 | 1-130-495-00 | MYLAR 0.1 μ F 5% | 50V |
| C549 | 1-136-060-00 | FILM 0.047 μ F 5% | 400V | C692 | 1-115-706-11 | ELECT 220 μ F 20% | 6.3V |
| C550 | 1-163-021-91 | CERAMIC CHIP 0.01 μ F 10% | 50V | C693 | 1-113-903-11 | CERAMIC 0.001 μ F 20% | 250V |
| C554 | 1-163-009-11 | CERAMIC CHIP 0.001 μ F 10% | 50V | C701 | 1-163-003-11 | CERAMIC CHIP 330pF 10% | 50V |
| C559 | 1-163-038-11 | CERAMIC CHIP 0.1 μ F | 25V | C703 | 1-163-003-11 | CERAMIC CHIP 330pF 10% | 50V |
| C560 | 1-137-856-11 | FILM 0.018 μ F 5% | 400V | C704 | 1-137-150-11 | MYLAR 0.01 μ F 5% | 50V |
| C561 | 1-163-021-91 | CERAMIC CHIP 0.01 μ F 10% | 50V | C705 | 1-164-004-11 | CERAMIC CHIP 0.1 μ F 10% | 25V |
| C562 | 1-163-009-11 | CERAMIC CHIP 0.001 μ F 10% | 50V | C706 | 1-137-150-11 | MYLAR 0.01 μ F 5% | 50V |
| C563 | 1-104-572-11 | CERAMIC 0.0022 μ F 10% | 2KV | C707 | 1-104-666-11 | ELECT 220 μ F 20% | 25V |
| C564 | 1-163-021-91 | CERAMIC CHIP 0.01 μ F 10% | 50V | C708 | 1-104-666-11 | ELECT 220 μ F 20% | 25V |
| C565 | 1-164-004-11 | CERAMIC CHIP 0.1 μ F 10% | 25V | C711 | 1-163-239-11 | CERAMIC CHIP 33pF 5% | 50V |
| C566 | 1-164-004-11 | CERAMIC CHIP 0.1 μ F 10% | 25V | C712 | 1-163-239-11 | CERAMIC CHIP 33pF 5% | 50V |
| C601 Δ | 1-107-533-51 | MYLAR 1 μ F 20% | 250V | C713 | 1-163-021-91 | CERAMIC CHIP 0.01 μ F 10% | 50V |
| C602 Δ | 1-104-708-51 | MYLAR 0.47 μ F 20% | 250V | C714 | 1-163-021-91 | CERAMIC CHIP 0.01 μ F 10% | 50V |
| C603 Δ | 1-113-900-51 | CERAMIC 470pF 10% | 250V | C718 | 1-163-038-11 | CERAMIC CHIP 0.1 μ F | 25V |
| C604 Δ | 1-113-900-51 | CERAMIC 470pF 10% | 250V | C719 | 1-163-038-11 | CERAMIC CHIP 0.1 μ F | 25V |
| C605 Δ | 1-113-926-91 | CERAMIC 0.0047 μ F 250V | | C720 | 1-163-021-91 | CERAMIC CHIP 0.01 μ F 10% | 50V |
| C606 Δ | 1-113-926-91 | CERAMIC 0.0047 μ F 250V | | C721 | 1-128-562-11 | ELECT 47 μ F 20% | 100V |
| C607 | 1-119-913-51 | CERAMIC 2200pF 20% | 250V | C722 | 1-128-560-11 | ELECT 22 μ F 20% | 100V |
| C610 | 1-137-673-11 | ELECT 330 μ F 20% | 450V | C724 | 1-162-134-11 | CERAMIC 470pF 10% | 2KV |
| C611 | 1-117-227-11 | MYLAR 1 μ F 10% | 450V | C726 | 1-163-038-11 | CERAMIC CHIP 0.1 μ F | 25V |
| C612 | 1-136-169-00 | FILM 0.22 μ F 5% | 50V | C727 | 1-163-038-11 | CERAMIC CHIP 0.1 μ F | 25V |
| C613 | 1-126-967-11 | ELECT 47 μ F 20% | 50V | C730 | 1-163-009-11 | CERAMIC CHIP 0.001 μ F 10% | 50V |
| C614 | 1-163-251-11 | CERAMIC CHIP 100pF 5% | 50V | C732 | 1-163-021-91 | CERAMIC CHIP 0.01 μ F 10% | 50V |
| C629 | 1-163-017-00 | CERAMIC CHIP 0.0047 μ F 10% | 50V | C733 | 1-117-722-11 | ELECT 2200 μ F 20% | 10V |
| C630 | 1-163-038-11 | CERAMIC CHIP 0.1 μ F | 25V | C734 | 1-164-004-11 | CERAMIC CHIP 0.1 μ F 10% | 25V |
| C631 | 1-104-665-11 | ELECT 100 μ F 20% | 25V | C736 | 1-126-967-11 | ELECT 47 μ F 20% | 50V |
| C632 | 1-126-961-11 | ELECT 2.2 μ F 20% | 50V | C737 | 1-126-967-11 | ELECT 47 μ F 20% | 50V |
| C635 | 1-163-005-11 | CERAMIC CHIP 470pF 10% | 50V | C738 | 1-136-169-00 | FILM 0.22 μ F 5% | 50V |
| C636 | 1-164-161-11 | CERAMIC CHIP 0.0022 μ F 10% | 50V | C761 | 1-163-021-91 | CERAMIC CHIP 0.01 μ F 10% | 50V |
| C640 | 1-126-964-11 | ELECT 10 μ F 20% | 50V | C900 | 1-107-713-11 | ELECT 4.7 μ F 20% | 50V |
| C641 | 1-107-792-11 | CERAMIC 100pF 5% | 1KV | C901 | 1-104-665-11 | ELECT 100 μ F 20% | 25V |
| C642 | 1-136-189-00 | MYLAR 0.1 μ F 10% | 250V | C902 | 1-163-021-91 | CERAMIC CHIP 0.01 μ F 10% | 50V |
| C643 | 1-107-792-11 | CERAMIC 100pF 5% | 1KV | C903 | 1-126-962-11 | ELECT 3.3 μ F 20% | 50V |
| C644 | 1-136-165-00 | FILM 0.1 μ F 5% | 50V | C904 | 1-115-339-11 | CERAMIC CHIP 0.1 μ F 10% | 50V |
| C645 | 1-136-479-11 | FILM 0.001 μ F 2% | 50V | C905 | 1-163-133-00 | CERAMIC CHIP 470pF 5% | 50V |
| C646 | 1-126-961-11 | ELECT 2.2 μ F 20% | 50V | C906 | 1-163-251-11 | CERAMIC CHIP 100pF 5% | 50V |
| C647 | 1-126-963-11 | ELECT 4.7 μ F 20% | 50V | C908 | 1-163-021-91 | CERAMIC CHIP 0.01 μ F 10% | 50V |
| C648 | 1-126-967-11 | ELECT 47 μ F 20% | 50V | C909 | 1-104-665-11 | ELECT 100 μ F 20% | 25V |
| C649 | 1-163-009-11 | CERAMIC CHIP 0.001 μ F 10% | 50V | C910 | 1-163-259-91 | CERAMIC CHIP 220pF 5% | 50V |
| C650 | 1-107-656-11 | ELECT 100 μ F 20% | 250V | C911 | 1-163-137-00 | CERAMIC CHIP 680pF 5% | 50V |
| C652 | 1-128-563-11 | ELECT 100 μ F 20% | 100V | C913 | 1-135-842-51 | ELECT 47 μ F 20% | 250V |
| C654 | 1-126-943-11 | ELECT 2200 μ F 20% | 25V | C914 | 1-136-203-91 | METALIZED FILM 0.01 μ F | |
| C655 | 1-104-664-11 | ELECT 47 μ F 20% | 25V | C915 | 1-137-867-11 | PP FILM | |
| C656 | 1-126-943-11 | ELECT 2200 μ F 20% | 25V | C916 | 1-117-665-11 | FILM 0.33 μ F 5% | 250V |
| C657 | 1-104-664-11 | ELECT 47 μ F 20% | 25V | C917 | 1-115-339-11 | CERAMIC CHIP 0.1 μ F 10% | 50V |
| C658 | 1-137-725-21 | FILM 8200pF 3% | 800V | C918 | 1-117-626-11 | FILM 2000pF 3% | 1.2KV |
| C667 | 1-107-909-11 | ELECT 47 μ F 20% | 16V | C919 | 1-115-349-51 | CERAMIC 0.01 μ F | 2KV |
| C680 | 1-107-886-11 | ELECT 4700 μ F 20% | 16V | C920 | 1-115-349-51 | CERAMIC 0.01 μ F | 2KV |
| C680 | 1-115-747-51 | ELECT 0.0068F 20% | 10V | C921 | 1-163-038-11 | CERAMIC CHIP 0.1 μ F | 25V |
| | | | [U/C] | C923 | 1-126-959-11 | ELECT 0.47 μ F 20% | 50V |
| | | | [NH, SH, EQ] | C925 | 1-137-372-11 | MYLAR 0.022 μ F 5% | 50V |



The components identified Δ marked are critical for safety.
Replace only with the part number specified.

Les composants identifiés par la 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 |
|----------------|-----------------------|----------------------------|-----------------------|---------|----------|-------------|--------|
| C926 | 1-106-220-00 | MYLAR | 0.1 μ F 10% 100V | | | | |
| C927 | 1-102-228-00 | CERAMIC | 470pF 10% 500V | | | | |
| C929 | 1-126-963-11 | ELECT | 4.7 μ F 20% 50V | | | | |
| C930 | 1-136-169-00 | FILM | 0.22 μ F 5% 50V | | | | |
| C932 | 1-164-004-11 | CERAMIC CHIP | 0.1 μ F 10% 25V | | | | |
| C933 | 1-104-664-11 | ELECT | 47 μ F 20% 25V | | | | |
| C935 | 1-163-021-91 | CERAMIC CHIP | 0.01 μ F 10% 50V | | | | |
| C936 | 1-163-009-11 | CERAMIC CHIP | 0.001 μ F 10% 50V | | | | |
| C937 | 1-128-551-11 | ELECT | 22 μ F 20% 25V | | | | |
| C938 | 1-126-935-11 | ELECT | 470 μ F 20% 16V | | | | |
| <CONNECTOR> | | | | | | | |
| CN501* | 1-793-239-11 | PIN, CONNECTOR (PC BOARD) | 6P | | | | |
| CN601* | 1-580-689-11 | PIN, CONNECTOR (PC BOARD) | 4P | | | | |
| CN602* | 1-691-960-11 | PIN, CONNECTOR (PC BOARD) | 3P | | | | |
| CN604 | 1-770-724-11 | 9P | | | | | |
| CN605* | 1-564-507-11 | PLUG, CONNECTOR | 4P [NH, SH, EQ] | | | | |
| CN701* | 1-764-333-11 | PLUG, CONNECTOR | 10P | | | | |
| CN904 | 1-695-915-11 | TAB (CONTACT) | | | | | |
| CN1101* | 1-508-879-11 | BASE POST | | | | | |
| CN1102 | 1-774-628-11 | 17P | | | | | |
| CN1103* | 1-564-511-11 | PLUG, CONNECTOR | 8P | | | | |
| <DIODE> | | | | | | | |
| D401 | 8-719-979-58 | DIODE EGP10D | | | | | |
| D405 | 8-719-109-85 | ZENER DIODE RD5.1ESB2 | | | | | |
| D406 | 8-719-050-84 | DIODE RB441Q-40T-77 | | | | | |
| D501 | 8-719-110-47 | ZENER DIODE RD18ESB | | | | | |
| D502 | 8-719-054-71 | DIODE D5SC4M-F | | | | | |
| D503 | 8-719-110-47 | ZENER DIODE RD18ESB | | | | | |
| D504 | 8-719-066-36 | DIODE FMQ-G5GS | | | | | |
| D505 | 8-719-052-86 | DIODE D2L40-TA | | | | | |
| D506 | 8-719-062-89 | ZENER DIODE HZS5B2-TE | | | | | |
| D509 | 8-719-073-01 | DIODE MA111-(K8).S0 | | | | | |
| D510 | 8-719-082-50 | DIODE 11DF2N-TA2B2 | | | | | |
| D512 | 8-719-911-19 | DIODE 1SS119-25 | | | | | |
| D516 | 8-719-052-90 | DIODE D1NL40-TA | | | | | |
| D517 | 8-719-082-50 | DIODE 11DF2N-TA2B2 | | | | | |
| D518 | 8-719-050-84 | DIODE RB441Q-40T-77 | | | | | |
| D519 | 8-719-069-54 | ZENER DIODE UDZS-TE17-5.1B | | | | | |
| D520 | 8-719-911-19 | DIODE 1SS119-25 | | | | | |
| D521 | 8-719-911-19 | DIODE 1SS119-25 | | | | | |
| D610 | Δ 8-719-510-53 | DIODE D4SB60L | | | | | |
| D613 | 8-719-304-63 | DIODE RM11C | | | | | |
| D631 | 8-719-063-73 | DIODE D1NL20U-TR | | | | | |
| D632 | 8-719-059-23 | DIODE P6KE200AG23 | | | | | |
| D633 | 8-719-069-63 | DIODE ERB38-06V1 | | | | | |
| D634 | 8-719-063-73 | DIODE D1NL20U-TR | | | | | |
| D635 | 8-719-110-67 | ZENER DIODE RD27ES-B2 | | | | | |
| D641 | 8-719-069-63 | DIODE ERB38-06V1 | | | | | |
| D643 | 8-719-073-01 | DIODE MA111-(K8).S0 | | | | | |
| D644 | 8-719-073-01 | DIODE MA111-(K8).S0 | | | | | |
| D650 | 8-719-064-49 | DIODE D4SBL40 | | | | | |
| D651 | 8-719-063-74 | DIODE D1NL20U-TR2 | | | | | |
| D652 | 8-719-052-91 | DIODE D4SBS4-F | | | | | |
| D680 | 8-719-510-41 | DIODE D10SC9M | | | | | |
| D690 | 8-719-911-19 | DIODE 1SS119-25 | | | | | |
| D692 | 8-719-911-19 | DIODE 1SS119-25 | | | | | |
| D694 | 8-719-911-19 | DIODE 1SS119-25 | | | | | |
| D697 | 8-719-073-01 | DIODE MA111-(K8).S0 | | | | | |
| D701 | 8-719-911-19 | DIODE 1SS119-25 | | | | | |
| D702 | 8-719-911-19 | DIODE 1SS119-25 | | | | | |
| D703 | 8-719-911-19 | DIODE 1SS119-25 | | | | | |
| D705 | 8-719-073-01 | DIODE MA111-(K8).S0 | | | | | |
| D706 | 8-719-069-54 | ZENER DIODE UDZS-TE17-5.1B | | | | | |
| D901 | 8-719-073-01 | DIODE MA111-(K8).S0 | | | | | |
| D906 | 8-719-977-40 | ZENER DIODE DTZ13B | | | | | |
| D907 | 8-719-052-86 | DIODE D2L40-TA | | | | | |
| D909 | 8-719-110-47 | ZENER DIODE RD18ESB | | | | | |
| D910 | 8-719-028-72 | DIODE RGP02-17EL-6433 | | | | | |
| D911 | 8-719-018-82 | DIODE RGP02-20EL-6394 | | | | | |
| D912 | 8-719-110-42 | ZENER DIODE RD15ES-B3 | | | | | |
| D914 | 8-719-970-83 | DIODE HSS82-TJ | | | | | |
| D917 | 8-719-069-60 | ZENER DIODE UDZS-TE17-9.1B | | | | | |
| D918 | 8-719-073-01 | DIODE MA111-(K8).S0 | | | | | |
| D919 | 8-719-069-54 | ZENER DIODE UDZS-TE17-5.1B | | | | | |
| D920 | 8-719-977-28 | ZENER DIODE DTZ10B | | | | | |
| D921 | 8-719-911-19 | DIODE 1SS119-25 | | | | | |
| D922 | 8-719-073-01 | DIODE MA111-(K8).S0 | | | | | |
| D923 | 8-719-073-01 | DIODE MA111-(K8).S0 | | | | | |
| <FUSE> | | | | | | | |
| F601 | Δ 1-576-233-11 | FUSE (H.B.C) (6.3A/250V) | | | | | |
| <FERRITE BEAD> | | | | | | | |
| FB501 | 1-410-397-21 | FERRITE | 1.1 μ H | | | | |
| FB555 | 1-216-295-11 | SHORT | 0 | | | | |
| FB901 | 1-412-911-11 | FERRITE | 1.1 μ H | | | | |
| FB902 | 1-414-231-22 | INDUCTOR | | | | | |
| FB1000 | 1-414-231-22 | INDUCTOR | | | | | |
| FB1002 | 1-216-295-11 | SHORT | 0 | | | | |
| FB1005 | 1-216-295-11 | SHORT | 0 | | | | |
| FB1007 | 1-216-295-11 | SHORT | 0 | | | | |
| <FUSE HOLDER> | | | | | | | |
| FH601 | 1-533-223-11 | HOLDER, FUSE (F601) | | | | | |
| FH602 | 1-533-223-11 | HOLDER, FUSE (F601) | | | | | |
| <IC> | | | | | | | |
| IC401 | 8-759-192-71 | IC STV9379 | | | | | |
| IC501 | 8-759-585-82 | IC BA9759F-E2 | | | | | |
| IC610 | 8-749-018-08 | IC MZ1532 | | | | | |
| IC620 | 8-759-670-30 | IC MCZ3001D | | | | | |
| IC630 | 8-759-535-32 | IC FA13842P | | | | | |
| IC640 | 8-749-018-07 | IC SEB3-LF4 | | | | | |

CPD-G520



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|----------------------------|--------|---------|--------------|------------------------------|----------------|
| IC652 | 8-759-669-10 | IC BA3953T-V5 | | | | <TRANSISTOR> | |
| IC654 | 8-759-701-79 | IC NJM7812FA | | | | | |
| IC680 | 8-759-682-42 | IC MM1431ATT | | Q501 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| IC701 | 8-759-822-38 | IC LA6510 | | Q502 | 8-729-049-86 | TRANSISTOR 2PD602AR-115 | |
| IC702 | 8-749-017-48 | IC STK391-220 | | Q503 | 8-729-049-85 | TRANSISTOR 2PB710AR-115 | |
| IC703 | 8-759-803-42 | IC LA6500-FA | | Q504 | 8-729-043-53 | TRANSISTOR IRFU110 | |
| IC901 | 8-759-585-81 | IC BA9758FS-E2 | | Q505 | 8-729-053-30 | TRANSISTOR 2SC5570 (LBSONY1) | |
| IC902 | 8-759-701-01 | IC NJM2904M | | Q506 | 8-729-053-13 | TRANSISTOR 2SJ585LS-CC11 | |
| | | <CHIP CONDUCTOR> | | Q507 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| JR001 | 1-216-295-11 | SHORT | 0 | Q508 | 8-729-049-86 | TRANSISTOR 2PD602AR-115 | |
| JR002 | 1-216-296-91 | SHORT | 0 | Q509 | 8-729-049-85 | TRANSISTOR 2PB710AR-115 | |
| JR003 | 1-216-296-91 | SHORT | 0 | Q510 | 8-729-423-33 | TRANSISTOR 2SC3311A-QRSTA | |
| JR004 | 1-216-296-91 | SHORT | 0 | Q511 | 8-729-043-41 | TRANSISTOR 2SK2098-01MR-F119 | |
| JR006 | 1-216-296-91 | SHORT | 0 | Q512 | 8-729-043-41 | TRANSISTOR 2SK2098-01MR-F119 | |
| JR007 | 1-216-295-11 | SHORT | 0 | Q513 | 8-729-046-62 | TRANSISTOR FS30KMJ-3-AZ | |
| JR008 | 1-216-296-91 | SHORT | 0 | Q514 | 8-729-053-82 | TRANSISTOR FS10KMJ-3-AZ | |
| JR009 | 1-216-295-11 | SHORT | 0 | Q515 | 8-729-047-72 | TRANSISTOR 2SK3155-01 | |
| JR012 | 1-216-296-91 | SHORT | 0 | Q516 | 8-729-047-72 | TRANSISTOR 2SK3155-01 | |
| JR013 | 1-216-295-11 | SHORT | 0 | Q517 | 8-729-047-72 | TRANSISTOR 2SK3155-01 | |
| JR014 | 1-216-296-91 | SHORT | 0 | Q519 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | |
| JR015 | 1-216-295-11 | SHORT | 0 | Q521 | 8-729-901-00 | TRANSISTOR DTC124EK | |
| JR016 | 1-216-296-91 | SHORT | 0 | Q523 | 8-729-027-31 | TRANSISTOR DTA124EKA-T146 | |
| JR017 | 1-216-295-11 | SHORT | 0 | Q524 | 8-729-901-00 | TRANSISTOR DTC124EK | |
| JR018 | 1-216-295-11 | SHORT | 0 | Q610 | 8-729-029-55 | TRANSISTOR DTA143ZSA-TP | |
| JR019 | 1-216-296-91 | SHORT | 0 | Q611 | 8-729-029-96 | TRANSISTOR DTC143XSA | |
| JR022 | 1-216-296-91 | SHORT | 0 | Q630 | 8-729-045-03 | TRANSISTOR 2SK2647-01MR-F91 | |
| | | <COIL> | | Q640 | 8-729-052-29 | TRANSISTOR 2SK2876-01MR-F122 | |
| L501 | 1-412-537-31 | INDUCTOR | 100µH | Q641 | 8-729-052-29 | TRANSISTOR 2SK2876-01MR-F122 | |
| L502 | 1-419-871-11 | COIL, HORIZONTAL LINEARITY | | Q652 | 8-729-029-66 | TRANSISTOR DTC114ESA | |
| L504 | 1-406-673-11 | INDUCTOR | 2.2mH | Q701 | 8-729-800-32 | TRANSISTOR 2SC2362K-G | |
| L505 | 1-406-675-11 | INDUCTOR | 4.7mH | Q702 | 8-729-178-43 | TRANSISTOR 2SC2784 | |
| L506 | 1-406-673-11 | INDUCTOR | 2.2mH | Q703 | 8-729-204-91 | TRANSISTOR 2SA1049-GR | |
| L508 | 1-412-525-31 | INDUCTOR | 10µH | Q704 | 8-729-207-82 | TRANSISTOR 2SC3421-Y | |
| L509 | 1-419-869-11 | COIL, HORIZONTAL CENTER | | Q705 | 8-729-207-89 | TRANSISTOR 2SA1358-Y | |
| L510 | 1-411-594-41 | INDUCTOR | 5mH | Q706 | 8-729-045-47 | TRANSISTOR 2SC4620TV2Q | |
| L610 | 1-419-837-11 | INDUCTOR | 340µH | Q707 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | |
| L611 | 1-419-397-11 | INDUCTOR | 68µH | Q901 | 8-729-035-54 | TRANSISTOR 2SJ449 | |
| L612 | 1-412-521-31 | INDUCTOR | 4.7µH | Q902 | 8-729-053-42 | TRANSISTOR FS5KM-18A-AT | |
| L652 | 1-406-665-11 | INDUCTOR | 100µH | Q903 | 8-729-049-86 | TRANSISTOR 2PD602AR-115 | |
| L653 | 1-406-665-11 | INDUCTOR | 100µH | Q904 | 8-729-049-85 | TRANSISTOR 2PB710AR-115 | |
| L680 | 1-414-742-21 | INDUCTOR | 22µH | Q905 | 8-729-046-80 | TRANSISTOR 2SC4634LS-CB11 | |
| L902 | 1-406-661-21 | INDUCTOR | 22µH | Q906 | 8-729-026-49 | TRANSISTOR 2SA1037AK-T146-R | |
| L1001 | 1-412-911-11 | FERRITE | 1.1µH | Q907 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| | | <PHOTO COUPLER> | | | | <RESISTOR> | |
| PH610 | 8-749-018-06 | IC TLP421F(D4-SONY) | | R401 | 1-249-383-11 | CARBON | 1.5 5% 1/4W |
| PH620 | 8-749-018-06 | IC TLP421F(D4-SONY) | | R402 | 1-215-867-00 | METAL OXIDE | 470 5% 1W |
| PH630 | 8-749-018-06 | IC TLP421F(D4-SONY) | | R403 | 1-214-796-00 | METAL | 1.5 1% 1/2W |
| | | | | R404 | 1-215-449-00 | METAL | 15K 1% 1/4W |
| | | | | R405 | 1-214-796-00 | METAL | 1.5 1% 1/2W |
| | | | | R406 | 1-215-451-00 | METAL | 18K 1% 1/4W |
| | | | | R407 | 1-216-675-91 | METAL CHIP | 10K 0.5% 1/10W |
| | | | | R408 | 1-216-097-11 | RES-CHIP | 100K 5% 1/10W |
| | | | | R409 | 1-216-679-11 | METAL CHIP | 15K 0.5% 1/10W |
| | | | | R410 | 1-216-681-11 | METAL CHIP | 18K 0.5% 1/10W |



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|-------------|-----------------|---------|---------------|--------------|-----------------|
| R501 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | R571 | 1-214-842-11 | METAL | 120 1% 1/2W |
| R502 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R572 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R503 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W | R573 | 1-216-057-00 | RES-CHIP | 2.2K 5% 1/10W |
| R504 | 1-216-073-00 | RES-CHIP | 10K 5% 1/10W | R574 | 1-216-295-11 | SHORT | 0 |
| R505 | 1-216-081-00 | RES-CHIP | 22K 5% 1/10W | R575 | 1-216-041-00 | RES-CHIP | 470 5% 1/10W |
| R506 | 1-249-393-11 | CARBON | 10 5% 1/4W | R577 | 1-163-009-11 | CERAMIC CHIP | 1000pF 10% 50V |
| R507 | 1-249-433-11 | CARBON | 22K 5% 1/4W | R578 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| R508 | 1-215-861-00 | METAL OXIDE | 47 5% 1W | R579 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| R509 | 1-249-381-11 | CARBON | 1 5% 1/4W | R580 | 1-249-413-11 | CARBON | 470 5% 1/4W |
| R510 | 1-219-726-11 | METAL | 2.2 5% 10W | R581 | 1-249-437-11 | CARBON | 47K 5% 1/4W |
| R511 | 1-216-683-11 | METAL CHIP | 22K 0.5% 1/10W | R583 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| R512 | 1-216-057-00 | RES-CHIP | 2.2K 5% 1/10W | R584 | 1-215-909-11 | METAL OXIDE | 47 5% 3W |
| R513 | 1-216-423-11 | METAL OXIDE | 27 5% 1W | R585 | 1-216-381-11 | METAL OXIDE | 0.22 5% 3W |
| R514 | 1-249-397-11 | CARBON | 22 5% 1/4W | R586 | 1-215-909-11 | METAL OXIDE | 47 5% 3W |
| R515 | 1-249-425-11 | CARBON | 4.7K 5% 1/4W | R588 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W |
| R516 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W | R589 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W |
| R517 | 1-216-089-11 | RES-CHIP | 47K 5% 1/10W | R590 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W |
| R518 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W | R591 | 1-249-425-11 | CARBON | 4.7K 5% 1/4W |
| R519 | 1-216-037-00 | RES-CHIP | 330 5% 1/10W | R592 | 1-249-425-11 | CARBON | 4.7K 5% 1/4W |
| R520 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W | R593 | 1-216-073-00 | RES-CHIP | 10K 5% 1/10W |
| R521 | 1-247-807-31 | CARBON | 100 5% 1/4W | R594 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W |
| R522 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | R596 | 1-247-807-31 | CARBON | 100 5% 1/4W |
| R523 | 1-216-685-11 | METAL CHIP | 27K 0.5% 1/10W | R598 | 1-216-665-11 | METAL CHIP | 3.9K 0.5% 1/10W |
| R524 | 1-216-663-11 | METAL CHIP | 3.3K 0.5% 1/10W | R599 | 1-216-699-91 | METAL CHIP | 100K 0.5% 1/10W |
| R525 | 1-216-657-11 | METAL CHIP | 1.8K 0.5% 1/10W | R601 | △1-220-825-91 | CARBON | 330K 5% 1/2W |
| R526 | 1-216-691-11 | METAL CHIP | 47K 0.5% 1/10W | R610 | 1-217-152-00 | METAL | 0.33 10% 2W |
| R527 | 1-216-683-11 | METAL CHIP | 22K 0.5% 1/10W | R611 | 1-217-153-00 | METAL | 0.47 10% 2W |
| R528 | 1-215-453-00 | METAL | 22K 1% 1/4W | R612 | 1-247-807-31 | CARBON | 100 5% 1/4W |
| R530 | 1-216-662-11 | METAL CHIP | 3K 0.5% 1/10W | R614 | 1-247-807-31 | CARBON | 100 5% 1/4W |
| R531 | 1-216-661-11 | METAL CHIP | 2.7K 0.5% 1/10W | R615 | 1-249-427-11 | CARBON | 6.8K 5% 1/4W |
| R532 | 1-216-081-00 | RES-CHIP | 22K 5% 1/10W | R617 | 1-216-073-00 | RES-CHIP | 10K 5% 1/10W |
| R533 | 1-216-681-11 | METAL CHIP | 18K 0.5% 1/10W | R618 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| R534 | 1-216-057-00 | RES-CHIP | 2.2K 5% 1/10W | R620 | 1-202-933-61 | FUSE | 0.1 10% 1/2W |
| R536 | 1-215-863-11 | METAL OXIDE | 100 5% 1W | R629 | 1-216-679-11 | METAL CHIP | 15K 0.5% 1/10W |
| R537 | 1-216-659-11 | METAL CHIP | 2.2K 0.5% 1/10W | | | | [U/C] |
| R541 | 1-216-089-11 | RES-CHIP | 47K 5% 1/10W | R629 | 1-216-671-11 | METAL CHIP | 6.8K 0.5% 1/10W |
| R542 | 1-214-842-11 | METAL | 120 1% 1/2W | | | | [NH, SH, EQ] |
| R545 | 1-216-057-00 | RES-CHIP | 2.2K 5% 1/10W | R630 | 1-249-381-11 | CARBON | 1 5% 1/4W |
| R546 | 1-215-890-11 | METAL OXIDE | 470 5% 2W | R631 | 1-216-349-00 | METAL OXIDE | 1 5% 1W |
| R547 | 1-215-387-00 | METAL | 39 1% 1/4W | | | | [U/C] |
| R548 | 1-260-320-11 | CARBON | 220 5% 1/2W | R631 | 1-216-369-00 | METAL OXIDE | 1 5% 2W |
| R549 | 1-260-312-11 | CARBON | 47 5% 1/2W | | | | [NH, SH, EQ] |
| R550 | 1-247-903-00 | CARBON | 1M 5% 1/4W | R632 | 1-216-081-00 | RES-CHIP | 22K 5% 1/10W |
| R552 | 1-249-437-11 | CARBON | 47K 5% 1/4W | R633 | 1-249-406-11 | CARBON | 120 5% 1/4W |
| R553 | 1-249-437-11 | CARBON | 47K 5% 1/4W | R634 | 1-249-417-11 | CARBON | 1K 5% 1/4W |
| R555 | 1-249-437-11 | CARBON | 47K 5% 1/4W | R635 | 1-260-135-11 | CARBON | 1M 5% 1/2W |
| R557 | 1-249-437-11 | CARBON | 47K 5% 1/4W | R636 | 1-260-135-11 | CARBON | 1M 5% 1/2W |
| R559 | 1-249-437-11 | CARBON | 47K 5% 1/4W | R637 | 1-216-069-00 | RES-CHIP | 6.8K 5% 1/10W |
| R561 | 1-249-437-11 | CARBON | 47K 5% 1/4W | R638 | 1-216-073-00 | RES-CHIP | 10K 5% 1/10W |
| R563 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R639 | 1-249-419-11 | CARBON | 1.5K 5% 1/4W |
| R564 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | R640 | 1-249-420-11 | CARBON | 1.8K 5% 1/4W |
| R565 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R641 | 1-216-073-00 | RES-CHIP | 10K 5% 1/10W |
| R566 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R642 | 1-249-393-11 | CARBON | 10 5% 1/4W |
| R567 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R643 | 1-243-979-71 | METAL OXIDE | 0.1 5% 2W |
| R568 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R645 | 1-216-073-00 | RES-CHIP | 10K 5% 1/10W |
| R570 | 1-214-842-11 | METAL | 120 1% 1/2W | R646 | 1-216-001-00 | RES-CHIP | 10 5% 1/10W |
| | | | | R647 | 1-219-512-11 | CARBON | 2.2M 5% 1/2W |



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

The components identified Δ marked are critical for safety.
Replace only with the part number specified.

| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|-------------|-----------------|---------|--------------|-------------|-----------------|
| R651 | 1-215-421-00 | METAL | 1K 1% 1/4W | R742 | 1-216-668-11 | METAL CHIP | 5.1K 0.5% 1/10W |
| R652 | 1-216-081-00 | RES-CHIP | 22K 5% 1/10W | R743 | 1-216-037-00 | RES-CHIP | 330 5% 1/10W |
| R653 | 1-216-671-11 | METAL CHIP | 6.8K 0.5% 1/10W | R744 | 1-249-413-11 | CARBON | 470 5% 1/4W |
| R654 | 1-216-017-91 | RES-CHIP | 47 5% 1/10W | R745 | 1-249-389-11 | CARBON | 4.7 5% 1/4W |
| R655 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | R746 | 1-249-389-11 | CARBON | 4.7 5% 1/4W |
| R656 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | R747 | 1-215-881-11 | METAL OXIDE | 15 5% 2W |
| R660 | 1-216-667-11 | METAL CHIP | 4.7K 0.5% 1/10W | R748 | 1-219-510-11 | CARBON | 470K 5% 1/2W |
| R661 | 1-216-295-11 | SHORT | 0 | R749 | 1-216-057-00 | RES-CHIP | 2.2K 5% 1/10W |
| R665 | 1-249-421-11 | CARBON | 2.2K 5% 1/4W | R753 | 1-249-393-11 | CARBON | 10 5% 1/4W |
| R670 | 1-216-679-11 | METAL CHIP | 15K 0.5% 1/10W | R754 | 1-216-675-91 | METAL CHIP | 10K 0.5% 1/10W |
| R671 | 1-216-675-91 | METAL CHIP | 10K 0.5% 1/10W | R755 | 1-216-673-11 | METAL CHIP | 8.2K 0.5% 1/10W |
| R675 | 1-219-512-11 | CARBON | 2.2M 5% 1/2W | R756 | 1-249-421-11 | CARBON | 2.2K 5% 1/4W |
| R676 | 1-218-756-11 | METAL CHIP | 150K 0.5% 1/10W | R757 | 1-216-073-00 | RES-CHIP | 10K 5% 1/10W |
| R686 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W | R758 | 1-249-385-11 | CARBON | 2.2 5% 1/4W |
| R687 | 1-216-081-00 | RES-CHIP | 22K 5% 1/10W | R759 | 1-249-385-11 | CARBON | 2.2 5% 1/4W |
| R691 | 1-244-160-91 | METAL | 36K 0.5% 1/4W | R760 | 1-216-093-91 | RES-CHIP | 68K 5% 1/10W |
| R692 | 1-244-160-91 | METAL | 36K 0.5% 1/4W | R901 | 1-216-097-11 | RES-CHIP | 100K 5% 1/10W |
| R693 | 1-244-160-91 | METAL | 36K 0.5% 1/4W | R902 | 1-216-089-11 | RES-CHIP | 47K 5% 1/10W |
| R694 | 1-243-985-91 | METAL | 33K 0.5% 1/4W | R903 | 1-218-758-11 | METAL CHIP | 180K 0.5% 1/10W |
| R696 | 1-260-092-11 | CARBON | 270 5% 1/2W | R904 | 1-216-057-00 | RES-CHIP | 2.2K 5% 1/10W |
| R698 | 1-216-679-11 | METAL CHIP | 15K 0.5% 1/10W | R905 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| R699 | 1-216-647-11 | METAL CHIP | 680 0.5% 1/10W | R907 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W |
| R700 | 1-216-095-00 | RES-CHIP | 82K 5% 1/10W | R908 | 1-249-429-11 | CARBON | 10K 5% 1/4W |
| R701 | 1-249-385-11 | CARBON | 2.2 5% 1/4W | R909 | 1-219-727-11 | METAL | 68 5% 10W |
| R702 | 1-216-073-00 | RES-CHIP | 10K 5% 1/10W | R911 | 1-249-401-11 | CARBON | 47 5% 1/4W |
| R703 | 1-249-385-11 | CARBON | 2.2 5% 1/4W | R912 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| R704 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | R914 | 1-216-041-00 | RES-CHIP | 470 5% 1/10W |
| R706 | 1-215-887-00 | METAL OXIDE | 150 5% 2W | R915 | 1-249-397-11 | CARBON | 22 5% 1/4W |
| R707 | 1-249-440-11 | CARBON | 82K 5% 1/4W | R916 | 1-249-401-11 | CARBON | 47 5% 1/4W |
| R709 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W | R917 | 1-249-385-11 | CARBON | 2.2 5% 1/4W |
| R710 | 1-216-673-11 | METAL CHIP | 8.2K 0.5% 1/10W | R918 | 1-214-935-00 | METAL | 820K 1% 1/2W |
| R711 | 1-216-674-11 | METAL CHIP | 9.1K 0.5% 1/10W | R919 | 1-216-073-00 | RES-CHIP | 10K 5% 1/10W |
| R712 | 1-249-425-11 | CARBON | 4.7K 5% 1/4W | R920 | 1-216-693-11 | METAL CHIP | 56K 0.5% 1/10W |
| R713 | 1-215-887-00 | METAL OXIDE | 150 5% 2W | R921 | 1-249-425-11 | CARBON | 4.7K 5% 1/4W |
| R716 | 1-249-385-11 | CARBON | 2.2 5% 1/4W | R923 | 1-215-467-00 | METAL | 82K 1% 1/4W |
| R717 | 1-249-385-11 | CARBON | 2.2 5% 1/4W | R924 | 1-216-675-91 | METAL CHIP | 10K 0.5% 1/10W |
| R718 | 1-215-866-11 | METAL OXIDE | 330 5% 1W | R925 | 1-218-762-11 | METAL CHIP | 270K 0.5% 1/10W |
| R719 | 1-216-373-11 | METAL OXIDE | 2.2 5% 2W | R926 | 1-216-083-00 | RES-CHIP | 27K 5% 1/10W |
| R721 | 1-216-675-91 | METAL CHIP | 10K 0.5% 1/10W | R927 | 1-219-748-11 | CARBON | 4.7K 5% 1/2W |
| R722 | 1-215-866-11 | METAL OXIDE | 330 5% 1W | R928 | 1-220-825-11 | CARBON | 330K 5% 1/2W |
| R724 | 1-216-675-91 | METAL CHIP | 10K 0.5% 1/10W | R929 | 1-216-089-11 | RES-CHIP | 47K 5% 1/10W |
| R725 | 1-216-373-11 | METAL OXIDE | 2.2 5% 2W | R931 | 1-219-748-11 | CARBON | 4.7K 5% 1/2W |
| R726 | 1-216-673-11 | METAL CHIP | 8.2K 0.5% 1/10W | R932 | 1-216-665-11 | METAL CHIP | 3.9K 0.5% 1/10W |
| R727 | 1-216-673-11 | METAL CHIP | 8.2K 0.5% 1/10W | R933 | 1-216-661-11 | METAL CHIP | 2.7K 0.5% 1/10W |
| R728 | 1-216-675-91 | METAL CHIP | 10K 0.5% 1/10W | R934 | 1-260-300-11 | CARBON | 4.7 5% 1/2W |
| R729 | 1-216-673-11 | METAL CHIP | 8.2K 0.5% 1/10W | R935 | 1-215-433-00 | METAL | 3.3K 1% 1/4W |
| R731 | 1-216-081-00 | RES-CHIP | 22K 5% 1/10W | R936 | 1-219-398-51 | METAL | 2.2M 5% 1W |
| R732 | 1-249-383-11 | CARBON | 1.5 5% 1/4W | R937 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| R733 | 1-215-859-00 | METAL OXIDE | 22 5% 1W | R938 | 1-216-111-00 | RES-CHIP | 390K 5% 1/10W |
| R734 | 1-215-865-11 | METAL OXIDE | 220 5% 1W | R939 | 1-216-095-00 | RES-CHIP | 82K 5% 1/10W |
| R735 | 1-216-667-11 | METAL CHIP | 4.7K 0.5% 1/10W | R940 | 1-216-109-00 | RES-CHIP | 330K 5% 1/10W |
| R737 | 1-216-059-00 | RES-CHIP | 2.7K 5% 1/10W | R941 | 1-219-621-91 | METAL | 22M 10% 1/4W |
| R738 | 1-216-069-00 | RES-CHIP | 6.8K 5% 1/10W | R942 | 1-216-121-11 | RES-CHIP | 1M 5% 1/10W |
| R739 | 1-249-434-11 | CARBON | 27K 5% 1/4W | R943 | 1-216-097-11 | RES-CHIP | 100K 5% 1/10W |
| R740 | 1-216-089-11 | RES-CHIP | 47K 5% 1/10W | R944 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| R741 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | | | | |

The components identified Δ marked are critical for safety.
Replace only with the part number specified.

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

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



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|----------------------------|--------------|---|---------------------|---------|----------|-----------------------------|--------|
| | | | | | | H1 BOARD, COMPLETE ***** | |
| R945 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W | | | | |
| R946 | 1-216-073-00 | RES-CHIP | 10K 5% 1/10W | | | | |
| R950 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W | | | | |
| R951 | 1-216-097-11 | RES-CHIP | 100K 5% 1/10W | | | | |
| R952 | 1-216-057-00 | RES-CHIP | 2.2K 5% 1/10W | | | | |
| R953 | 1-216-129-00 | RES-CHIP | 2.2M 5% 1/10W | | | | |
| R954 | 1-218-179-11 | RES-CHIP | 10M 5% 1/10W | | | | |
| R955 | 1-218-179-11 | RES-CHIP | 10M 5% 1/10W | | | | |
| | | <VARIABLE RESISTOR> | | | | | |
| \boxtimes RV901 Δ | 1-241-767-21 | RES, ADJ, CERMET 100K (HV ADJ) | | | | | |
| | | <RELAY> | | | | | |
| RY602 Δ | 1-755-318-11 | RELAY, POWER | | | | | |
| RY603 Δ | 1-755-067-21 | RELAY | | | | | |
| | | <SWITCH> | | | | | |
| S501 | 1-692-465-11 | SWITCH, SLIDE (RASTER CENTER TAP SWITCH) | | | | | |
| S601 Δ | 1-771-727-11 | SWITCH, AC POWER PUSH (POWER) | | | | | |
| | | <SPARK GAP> | | | | | |
| SG601 | 1-533-982-21 | SPARK GAP | | | | | |
| SG901 | 1-517-499-21 | SPARK GAP | | | | | |
| SG902 | 1-519-422-11 | SPARK GAP | | | | | |
| SG903 | 1-519-422-11 | SPARK GAP | | | | | |
| | | <TRANSFORMER> | | | | | |
| T501 | 1-435-188-11 | TRANSFORMER, FERRITE (HDT) | | | | | |
| T503 | 1-435-140-21 | TRANSFORMER, FERRITE (LCT) | | | | | |
| T504 | 1-431-413-11 | TRANSFORMER, FERRITE (HST) | | | | | |
| T601 Δ | 1-429-180-11 | TRANSFORMER, LINE FILTER | | | | | |
| T620 | 1-435-748-11 | TRANSFORMER, CONVERTER (PIT) | | | | | |
| T630 | 1-435-751-11 | TRANSFORMER, CONVERTER (SRT) | | | | | |
| T701 | 1-435-129-11 | TRANSFORMER, FERRITE (DFT) | | | | | |
| T901 Δ | 1-453-359-11 | TRANSFORMER ASSY, FLYBACK (NX-4702/KM7E) | | | | | |
| T902 | 1-411-567-31 | INDUCTOR 500 μ H | | | | | |
| | | <THERMISTOR> | | | | | |
| TH401 | 1-807-970-11 | THERMISTOR | | | | | |
| TH601 Δ | 1-803-546-11 | THERMISTOR (NTH22D6R0QA) | | | | | |
| THP602 Δ | 1-809-827-11 | THERMISTOR, POSITIVE | | | | | |
| | | <VARISTOR> | | | | | |
| VDR601 Δ | 1-803-918-51 | VARISTOR (TNR14V621K660) | | | | | |
| VDR602 Δ | 1-810-622-21 | VARISTOR | | | | | |
| | | <CAPACITOR> | | | | | |
| C1400 | 1-126-795-11 | ELECT | 10 μ F 20% 50V | | | | |
| C1401 | 1-126-786-11 | ELECT | 47 μ F 20% 16V | | | | |
| C1402 | 1-126-786-11 | ELECT | 47 μ F 20% 16V | | | | |
| C1403 | 1-137-150-11 | MYLAR | 0.01 μ F 5% 50V | | | | |
| C1404 | 1-137-150-11 | MYLAR | 0.01 μ F 5% 50V | | | | |
| C1405 | 1-126-786-11 | ELECT | 47 μ F 20% 16V | | | | |
| C1407 | 1-126-786-11 | ELECT | 47 μ F 20% 16V | | | | |
| C1498 | 1-130-495-00 | MYLAR | 0.1 μ F 5% 50V | | | | |
| | | <CONNECTOR> | | | | | |
| CN1400 | 1-564-593-11 | PLUG, CONNECTOR | 14P | | | | |
| CN1401* | 1-564-520-11 | PLUG, CONNECTOR | 5P | | | | |
| | | <DIODE> | | | | | |
| D1400 | 8-719-056-13 | DIODE SML79423C-TP15 (POWER) | | | | | |
| D1402 | 8-719-911-19 | DIODE 1SS119-25 | | | | | |
| D1403 | 8-719-911-19 | DIODE 1SS119-25 | | | | | |
| | | <FERRITE BEAD> | | | | | |
| FB1401 | 1-412-911-31 | FERRITE | 1.1 μ H | | | | |
| FB1402 | 1-412-911-31 | FERRITE | 1.1 μ H | | | | |
| FB1403 | 1-412-911-31 | FERRITE | 1.1 μ H | | | | |
| | | <TRANSISTOR> | | | | | |
| Q1400 | 8-729-029-66 | TRANSISTOR DTC114ESA | | | | | |
| Q1401 | 8-729-029-68 | TRANSISTOR DTC114TSA | | | | | |
| Q1402 | 8-729-029-40 | TRANSISTOR DTA124ESA | | | | | |
| | | <RESISTOR> | | | | | |
| R1400 | 1-215-405-00 | METAL | 220 1% 1/4W | | | | |
| R1401 | 1-215-405-00 | METAL | 220 1% 1/4W | | | | |
| R1402 | 1-215-397-00 | METAL | 100 1% 1/4W | | | | |
| R1403 | 1-215-397-00 | METAL | 100 1% 1/4W | | | | |
| R1404 | 1-215-413-00 | METAL | 470 1% 1/4W | | | | |
| R1405 | 1-249-441-11 | CARBON | 100K 5% 1/4W | | | | |
| R1406 | 1-249-407-11 | CARBON | 150 5% 1/4W | | | | |
| R1407 | 1-249-409-11 | CARBON | 220 5% 1/4W | | | | |
| R1408 | 1-249-413-11 | CARBON | 470 5% 1/4W | | | | |
| R1409 | 1-249-441-11 | CARBON | 100K 5% 1/4W | | | | |
| R1419 | 1-249-441-11 | CARBON | 100K 5% 1/4W | | | | |
| R1420 | 1-249-429-11 | CARBON | 10K 5% 1/4W | | | | |
| R1421 | 1-215-445-00 | METAL | 10K 1% 1/4W | | | | |
| R1422 | 1-249-433-11 | CARBON | 22K 5% 1/4W | | | | |
| R1423 | 1-249-433-11 | CARBON | 22K 5% 1/4W | | | | |
| R1424 | 1-215-453-00 | METAL | 22K 1% 1/4W | | | | |

CPD-G520



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|-------------------------------|---------|---------|--------------|-------------------|---------------|
| | | <SWITCH> | | FB1601 | 1-412-911-11 | FERRITE | 1.1μH |
| S1400 | 1-762-196-21 | SWITCH, TACT (MENU) | | FB1602 | 1-412-911-11 | FERRITE | 1.1μH |
| S1401 | 1-762-196-21 | SWITCH, TACT (PICTURE MODE) | | FB1603 | 1-412-911-11 | FERRITE | 1.1μH |
| S1402 | 1-771-734-11 | SWITCH, TACTILE | | FB1604 | 1-412-911-11 | FERRITE | 1.1μH |
| | | (CONTROL/CONTRAST) | | | | <IC> | |
| S1403 | 1-571-427-11 | SWITCH, SLIDE (INPUT1/INPUT2) | | IC1600 | 8-759-822-38 | IC LA6510 | |
| | | <THERMISTOR> | | IC1601 | 8-759-822-38 | IC LA6510 | |
| TH1400 | 1-807-796-11 | THERMISTOR | | IC1602 | 8-759-426-18 | IC MB88141PF-ER | |
| | | | | IC1603 | 8-759-803-42 | IC LA6500-FA | |
| | | | | IC1604 | 8-759-822-38 | IC LA6510 | |
| | | | | IC1605 | 8-759-711-59 | IC NJM78L05UA-TE1 | |
| ***** | | | | | | <RESISTOR> | |
| | | L2 BOARD, COMPLETE | | R1600 | 1-216-073-00 | RES-CHIP | 10K 5% 1/10W |
| | | ***** | | R1601 | 1-216-308-00 | RES-CHIP | 4.7 5% 1/10W |
| | | | | R1603 | 1-216-308-00 | RES-CHIP | 4.7 5% 1/10W |
| | | | | R1604 | 1-216-073-00 | RES-CHIP | 10K 5% 1/10W |
| | | | | R1605 | 1-215-859-00 | METAL OXIDE | 22 5% 1W |
| | | <CAPACITOR> | | R1607 | 1-215-859-00 | METAL OXIDE | 22 5% 1W |
| C1600 | 1-164-004-11 | CERAMIC CHIP 0.1μF | 10% 25V | R1608 | 1-216-071-00 | RES-CHIP | 8.2K 5% 1/10W |
| C1604 | 1-163-003-11 | CERAMIC CHIP 330pF | 10% 50V | R1609 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W |
| C1605 | 1-163-021-91 | CERAMIC CHIP 0.01μF | 10% 50V | R1610 | 1-216-071-00 | RES-CHIP | 8.2K 5% 1/10W |
| C1606 | 1-163-021-91 | CERAMIC CHIP 0.01μF | 10% 50V | R1611 | 1-215-859-00 | METAL OXIDE | 22 5% 1W |
| C1607 | 1-163-003-11 | CERAMIC CHIP 330pF | 10% 50V | R1613 | 1-216-308-00 | RES-CHIP | 4.7 5% 1/10W |
| C1608 | 1-164-004-11 | CERAMIC CHIP 0.1μF | 10% 25V | R1617 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W |
| C1611 | 1-163-021-91 | CERAMIC CHIP 0.01μF | 10% 50V | R1621 | 1-216-308-00 | RES-CHIP | 4.7 5% 1/10W |
| C1613 | 1-163-021-91 | CERAMIC CHIP 0.01μF | 10% 50V | R1624 | 1-216-073-00 | RES-CHIP | 10K 5% 1/10W |
| C1614 | 1-163-021-91 | CERAMIC CHIP 0.01μF | 10% 50V | R1625 | 1-216-073-00 | RES-CHIP | 10K 5% 1/10W |
| C1617 | 1-164-004-11 | CERAMIC CHIP 0.1μF | 10% 25V | R1626 | 1-215-859-00 | METAL OXIDE | 22 5% 1W |
| C1618 | 1-164-004-11 | CERAMIC CHIP 0.1μF | 10% 25V | R1628 | 1-216-073-00 | RES-CHIP | 10K 5% 1/10W |
| C1619 | 1-163-038-11 | CERAMIC CHIP 0.1μF | 10% 25V | R1629 | 1-216-073-00 | RES-CHIP | 10K 5% 1/10W |
| C1621 | 1-164-004-11 | CERAMIC CHIP 0.1μF | 10% 25V | R1630 | 1-215-859-00 | METAL OXIDE | 22 5% 1W |
| C1622 | 1-164-004-11 | CERAMIC CHIP 0.1μF | 10% 25V | R1631 | 1-216-073-00 | RES-CHIP | 10K 5% 1/10W |
| C1623 | 1-115-339-11 | CERAMIC CHIP 0.1μF | 10% 50V | R1634 | 1-216-308-00 | RES-CHIP | 4.7 5% 1/10W |
| C1627 | 1-115-339-11 | CERAMIC CHIP 0.1μF | 10% 50V | R1635 | 1-216-077-91 | RES-CHIP | 15K 5% 1/10W |
| C1628 | 1-104-664-11 | ELECT 47μF | 20% 25V | R1636 | 1-215-859-00 | METAL OXIDE | 22 5% 1W |
| C1629 | 1-163-021-91 | CERAMIC CHIP 0.01μF | 10% 50V | R1640 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W |
| C1632 | 1-104-664-11 | ELECT 47μF | 20% 25V | R1641 | 1-216-079-00 | RES-CHIP | 18K 5% 1/10W |
| C1633 | 1-126-791-11 | ELECT 10μF | 20% 16V | R1643 | 1-216-308-00 | RES-CHIP | 4.7 5% 1/10W |
| C1637 | 1-164-004-11 | CERAMIC CHIP 0.1μF | 10% 25V | R1644 | 1-216-053-00 | RES-CHIP | 1.5K 5% 1/10W |
| C1638 | 1-164-004-11 | CERAMIC CHIP 0.1μF | 10% 25V | R1647 | 1-216-073-00 | RES-CHIP | 10K 5% 1/10W |
| C1639 | 1-104-664-11 | ELECT 47μF | 20% 25V | R1648 | 1-216-073-00 | RES-CHIP | 10K 5% 1/10W |
| C1640 | 1-104-664-11 | ELECT 47μF | 20% 25V | R1649 | 1-215-859-00 | METAL OXIDE | 22 5% 1W |
| | | <CONNECTOR> | | R1650 | 1-249-382-11 | CARBON | 1.2 5% 1/4W |
| CN1600 | 1-564-505-11 | PLUG, CONNECTOR | 2P | R1651 | 1-249-382-11 | CARBON | 1.2 5% 1/4W |
| CN1601* | 1-564-507-11 | PLUG, CONNECTOR | 4P | R1652 | 1-249-382-11 | CARBON | 1.2 5% 1/4W |
| CN1602* | 1-564-511-11 | PLUG, CONNECTOR | 8P | R1653 | 1-249-382-11 | CARBON | 1.2 5% 1/4W |
| | | <FERRITE BEAD> | | R1654 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |
| FB1600 | 1-412-911-11 | FERRITE | 1.1μH | R1655 | 1-216-025-11 | RES-CHIP | 100 5% 1/10W |



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|----------------------------|--------------|---------------------------|------------|--|--------------|--------------------------------|---------|
| N BOARD, COMPLETE ***** | | | | <RESISTOR> | | | |
| <CAPACITOR> | | | | R1001 | 1-216-125-00 | RES-CHIP 1.5M 5% | 1/10W |
| C1001 | 1-163-021-91 | CERAMIC CHIP 0.01μF | 10% 50V | R1003 | 1-216-025-11 | RES-CHIP 100 5% | 1/10W |
| C1002 | 1-163-021-91 | CERAMIC CHIP 0.01μF | 10% 50V | R1004 | 1-216-065-91 | RES-CHIP 4.7K 5% | 1/10W |
| C1004 | 1-163-021-91 | CERAMIC CHIP 0.01μF | 10% 50V | R1005 | 1-216-065-91 | RES-CHIP 4.7K 5% | 1/10W |
| C1005 | 1-163-021-91 | CERAMIC CHIP 0.01μF | 10% 50V | R1006 | 1-216-113-00 | RES-CHIP 470K 5% | 1/10W |
| C1014 | 1-126-205-11 | ELECT 47μF | 20% 6.3V | R1008 | 1-216-025-11 | RES-CHIP 100 5% | 1/10W |
| C1015 | 1-163-021-91 | CERAMIC CHIP 0.01μF | 10% 50V | R1009 | 1-216-025-11 | RES-CHIP 100 5% | 1/10W |
| C1016 | 1-163-021-91 | CERAMIC CHIP 0.01μF | 10% 50V | R1010 | 1-216-049-11 | RES-CHIP 1K 5% | 1/10W |
| C1017 | 1-163-021-91 | CERAMIC CHIP 0.01μF | 10% 50V | R1011 | 1-216-065-91 | RES-CHIP 4.7K 5% | 1/10W |
| C1018 | 1-163-220-11 | CERAMIC CHIP 3pF | 0.25pF 50V | R1012 | 1-216-065-91 | RES-CHIP 4.7K 5% | 1/10W |
| C1019 | 1-163-235-11 | CERAMIC CHIP 22pF | 5% 50V | R1014 | 1-216-065-91 | RES-CHIP 4.7K 5% | 1/10W |
| C1020 | 1-126-206-11 | ELECT 100μF | 20% 6.3V | R1015 | 1-216-065-91 | RES-CHIP 4.7K 5% | 1/10W |
| C1021 | 1-163-021-91 | CERAMIC CHIP 0.01μF | 10% 50V | R1016 | 1-216-025-11 | RES-CHIP 100 5% | 1/10W |
| C1022 | 1-163-021-91 | CERAMIC CHIP 0.01μF | 10% 50V | R1017 | 1-216-049-11 | RES-CHIP 1K 5% | 1/10W |
| C1023 | 1-163-021-91 | CERAMIC CHIP 0.01μF | 10% 50V | R1018 | 1-216-017-91 | RES-CHIP 47 5% | 1/10W |
| C1027 | 1-163-021-91 | CERAMIC CHIP 0.01μF | 10% 50V | R1019 | 1-216-017-91 | RES-CHIP 47 5% | 1/10W |
| C1028 | 1-164-004-11 | CERAMIC CHIP 0.1μF | 10% 25V | R1020 | 1-216-017-91 | RES-CHIP 47 5% | 1/10W |
| C1029 | 1-109-982-11 | CERAMIC CHIP 1μF | 10% 10V | R1021 | 1-216-017-91 | RES-CHIP 47 5% | 1/10W |
| C1030 | 1-163-021-91 | CERAMIC CHIP 0.01μF | 10% 50V | R1022 | 1-216-065-91 | RES-CHIP 4.7K 5% | 1/10W |
| <CONNECTOR> | | | | R1023 | 1-216-065-91 | RES-CHIP 4.7K 5% | 1/10W |
| CN1003 | 1-564-521-11 | PLUG, CONNECTOR | 6P | R1040 | 1-216-025-11 | RES-CHIP 100 5% | 1/10W |
| <DIODE> | | | | R1041 | 1-216-065-91 | RES-CHIP 4.7K 5% | 1/10W |
| D1001 | 8-719-073-01 | DIODE MA111-(K8).S0 | | R1042 | 1-216-073-00 | RES-CHIP 10K 5% | 1/10W |
| <FERRITE BEAD> | | | | R1043 | 1-216-121-11 | RES-CHIP 1M 5% | 1/10W |
| FB1001 | 1-543-963-22 | FERRITE | | R1044 | 1-216-121-11 | RES-CHIP 1M 5% | 1/10W |
| FB1002 | 1-216-295-11 | SHORT | 0 | <COMPOSITION CIRCUIT BLOCK> | | | |
| FB1003 | 1-216-295-11 | SHORT | 0 | RB1001 | 1-233-576-11 | NETWORK, RESISTOR (CHIP) | 100 |
| FB1004 | 1-216-295-11 | SHORT | 0 | RB1002 | 1-233-576-11 | NETWORK, RESISTOR (CHIP) | 100 |
| FB1005 | 1-216-295-11 | SHORT | 0 | RB1003 | 1-233-576-11 | NETWORK, RESISTOR (CHIP) | 100 |
| FB1006 | 1-216-295-11 | SHORT | 0 | RB1004 | 1-233-576-11 | NETWORK, RESISTOR (CHIP) | 100 |
| FB1007 | 1-216-295-11 | SHORT | 0 | RB1005 | 1-233-576-11 | NETWORK, RESISTOR (CHIP) | 100 |
| <IC> | | | | RB1006 | 1-233-576-11 | NETWORK, RESISTOR (CHIP) | 100 |
| IC1001 | 8-759-826-97 | IC TMP91PW18F-1A22(Z) | | RB1007 | 1-233-576-11 | NETWORK, RESISTOR (CHIP) | 100 |
| IC1002 | 8-759-420-77 | IC PST574CMT-T1 | | RB1009 | 1-233-576-11 | NETWORK, RESISTOR (CHIP) | 100 |
| IC1003 | 8-759-641-86 | IC BR24C16F-E2 | | <CRYSTAL> | | | |
| <TRANSISTOR> | | | | X1001 | 1-795-044-21 | VIBRATOR, CRYSTAL (16.9344MHz) | |
| Q1001 | 8-729-029-06 | TRANSISTOR DTC124EUA-T106 | | ***** | | | |
| <CAPACITOR> | | | | US BOARD, COMPLETE [NH, SH, EQ] ***** | | | |
| C2601 | 1-163-021-91 | CERAMIC CHIP 0.01μF | 10% 50V | <CAPACITOR> | | | |
| C2602 | 1-126-964-11 | ELECT 10μF | 20% 50V | C2601 | 1-163-021-91 | CERAMIC CHIP 0.01μF | 10% 50V |
| C2603 | 1-126-964-11 | ELECT 10μF | 20% 50V | C2602 | 1-126-964-11 | ELECT 10μF | 20% 50V |
| | | | | C2603 | 1-126-964-11 | ELECT 10μF | 20% 50V |



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|-------------|--------------|--------------------|-----------------|----------------|--------------|---------------------------|---------------|
| C2604 | 1-126-964-11 | ELECT | 10µF 20% 50V | <FERRITE BEAD> | | | |
| C2605 | 1-126-964-11 | ELECT | 10µF 20% 50V | | | | |
| C2606 | 1-126-934-11 | ELECT | 220µF 20% 10V | FB2601 | 1-412-911-31 | FERRITE | 1.1µH |
| C2607 | 1-126-934-11 | ELECT | 220µF 20% 10V | FB2602 | 1-410-397-21 | FERRITE | 1.1µH |
| C2608 | 1-126-934-11 | ELECT | 220µF 20% 10V | FB2901 | 1-412-911-31 | FERRITE | 1.1µH |
| C2609 | 1-126-934-11 | ELECT | 220µF 20% 10V | FB2903 | 1-412-911-31 | FERRITE | 1.1µH |
| C2610 | 1-104-664-11 | ELECT | 47µF 20% 25V | FB2904 | 1-412-911-31 | FERRITE | 1.1µH |
| C2611 | 1-104-664-11 | ELECT | 47µF 20% 25V | FB2905 | 1-412-911-31 | FERRITE | 1.1µH |
| C2612 | 1-163-021-91 | CERAMIC CHIP | 0.01µF 10% 50V | FB2906 | 1-412-911-31 | FERRITE | 1.1µH |
| C2901 | 1-164-004-11 | CERAMIC CHIP | 0.1µF 10% 25V | FB2911 | 1-412-911-31 | FERRITE | 1.1µH |
| C2902 | 1-104-664-11 | ELECT | 47µF 20% 25V | FB2912 | 1-216-295-11 | SHORT | 0 |
| C2904 | 1-163-021-91 | CERAMIC CHIP | 0.01µF 10% 50V | FB2913 | 1-216-295-11 | SHORT | 0 |
| C2905 | 1-164-489-11 | CERAMIC CHIP | 0.22µF 10% 16V | FB2914 | 1-216-295-11 | SHORT | 0 |
| C2906 | 1-164-489-11 | CERAMIC CHIP | 0.22µF 10% 16V | FB2915 | 1-216-295-11 | SHORT | 0 |
| C2908 | 1-164-489-11 | CERAMIC CHIP | 0.22µF 10% 16V | FB2916 | 1-216-295-11 | SHORT | 0 |
| C2909 | 1-163-237-11 | CERAMIC CHIP | 27pF 5% 50V | FB2917 | 1-216-295-11 | SHORT | 0 |
| C2912 | 1-163-235-11 | CERAMIC CHIP | 22pF 5% 50V | FB2918 | 1-216-295-11 | SHORT | 0 |
| C2914 | 1-164-489-11 | CERAMIC CHIP | 0.22µF 10% 16V | FB2919 | 1-216-295-11 | SHORT | 0 |
| C2915 | 1-164-489-11 | CERAMIC CHIP | 0.22µF 10% 16V | FB2924 | 1-216-295-11 | SHORT | 0 |
| C2916 | 1-164-004-11 | CERAMIC CHIP | 0.1µF 10% 25V | FB2925 | 1-216-295-11 | SHORT | 0 |
| C2917 | 1-164-004-11 | CERAMIC CHIP | 0.1µF 10% 25V | FB2936 | 1-414-766-22 | INDUCTOR | |
| C2918 | 1-164-004-11 | CERAMIC CHIP | 0.1µF 10% 25V | <IC> | | | |
| C2923 | 1-163-021-91 | CERAMIC CHIP | 0.01µF 10% 50V | | | | |
| <CONNECTOR> | | | | IC2601 | 8-759-431-14 | IC PQ3TZ53U | |
| CN2601* | 1-564-519-11 | PLUG, CONNECTOR | 4P | IC2602 | 8-749-018-35 | IC SLA3006M(LF874) | |
| CN2901 | 1-794-989-11 | CONNECTOR, USB (B) | | IC2901 | 8-759-660-89 | IC KC82C160SH | |
| CN2902 | 1-794-990-11 | CONNECTOR, USB (A) | | IC2902 | 8-759-165-87 | IC PST600J-T | |
| CN2903 | 1-794-990-11 | CONNECTOR, USB (A) | | <TRANSISTOR> | | | |
| CN2904 | 1-794-990-11 | CONNECTOR, USB (A) | | Q2601 | 8-729-029-06 | TRANSISTOR DTC124EUA-T106 | |
| CN2905 | 1-794-990-11 | CONNECTOR, USB (A) | | Q2602 | 8-729-029-06 | TRANSISTOR DTC124EUA-T106 | |
| <DIODE> | | | | Q2603 | 8-729-029-06 | TRANSISTOR DTC124EUA-T106 | |
| D2601 | 8-719-069-55 | ZENER DIODE | UDZS-TE-17-5.6B | Q2604 | 8-729-029-06 | TRANSISTOR DTC124EUA-T106 | |
| D2604 | 8-719-911-19 | DIODE | 1SS119-25 | <RESISTOR> | | | |
| D2605 | 8-719-911-19 | DIODE | 1SS119-25 | R2601 | 1-216-081-00 | RES-CHIP | 22K 5% 1/10W |
| D2606 | 8-719-911-19 | DIODE | 1SS119-25 | R2602 | 1-216-365-00 | METAL OXIDE | 0.47 5% 2W |
| D2607 | 8-719-911-19 | DIODE | 1SS119-25 | R2603 | 1-216-365-00 | METAL OXIDE | 0.47 5% 2W |
| D2902 | 8-719-422-12 | ZENER DIODE | MA8039 | R2611 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| D2903 | 8-719-422-12 | ZENER DIODE | MA8039 | R2612 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| D2904 | 8-719-069-55 | ZENER DIODE | UDZS-TE-17-5.6B | R2613 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| D2905 | 8-719-069-55 | ZENER DIODE | UDZS-TE-17-5.6B | R2614 | 1-216-049-11 | RES-CHIP | 1K 5% 1/10W |
| D2906 | 8-719-069-55 | ZENER DIODE | UDZS-TE-17-5.6B | R2618 | 1-216-073-00 | RES-CHIP | 10K 5% 1/10W |
| D2907 | 8-719-069-55 | ZENER DIODE | UDZS-TE-17-5.6B | R2619 | 1-216-073-00 | RES-CHIP | 10K 5% 1/10W |
| D2908 | 8-719-422-12 | ZENER DIODE | MA8039 | R2620 | 1-216-073-00 | RES-CHIP | 10K 5% 1/10W |
| D2909 | 8-719-422-12 | ZENER DIODE | MA8039 | R2621 | 1-216-073-00 | RES-CHIP | 10K 5% 1/10W |
| D2910 | 8-719-422-12 | ZENER DIODE | MA8039 | R2622 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W |
| D2911 | 8-719-422-12 | ZENER DIODE | MA8039 | R2623 | 1-216-033-00 | RES-CHIP | 220 5% 1/10W |
| D2912 | 8-719-422-12 | ZENER DIODE | MA8039 | R2901 | 1-216-013-00 | RES-CHIP | 33 5% 1/10W |
| D2913 | 8-719-422-12 | ZENER DIODE | MA8039 | R2902 | 1-216-057-00 | RES-CHIP | 2.2K 5% 1/10W |
| D2914 | 8-719-422-12 | ZENER DIODE | MA8039 | R2903 | 1-216-121-11 | RES-CHIP | 1M 5% 1/10W |
| D2915 | 8-719-422-12 | ZENER DIODE | MA8039 | R2904 | 1-216-065-91 | RES-CHIP | 4.7K 5% 1/10W |
| | | | | R2905 | 1-216-073-00 | RES-CHIP | 10K 5% 1/10W |
| | | | | R2906 | 1-216-022-00 | RES-CHIP | 75 5% 1/10W |



| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---------|--------------|-------------|------|----|--------|
| R2907 | 1-216-039-00 | RES-CHIP | 390 | 5% | 1/10W |
| R2908 | 1-216-073-00 | RES-CHIP | 10K | 5% | 1/10W |
| R2909 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R2910 | 1-216-065-91 | RES-CHIP | 4.7K | 5% | 1/10W |
| R2915 | 1-216-053-00 | RES-CHIP | 1.5K | 5% | 1/10W |
| R2916 | 1-216-077-91 | RES-CHIP | 15K | 5% | 1/10W |
| R2919 | 1-216-077-91 | RES-CHIP | 15K | 5% | 1/10W |
| R2920 | 1-216-077-91 | RES-CHIP | 15K | 5% | 1/10W |
| R2923 | 1-216-077-91 | RES-CHIP | 15K | 5% | 1/10W |
| R2924 | 1-216-077-91 | RES-CHIP | 15K | 5% | 1/10W |
| R2925 | 1-216-077-91 | RES-CHIP | 15K | 5% | 1/10W |
| R2926 | 1-216-077-91 | RES-CHIP | 15K | 5% | 1/10W |
| R2927 | 1-216-013-00 | RES-CHIP | 33 | 5% | 1/10W |
| R2928 | 1-216-013-00 | RES-CHIP | 33 | 5% | 1/10W |
| R2930 | 1-216-009-91 | RES-CHIP | 22 | 5% | 1/10W |
| R2931 | 1-216-009-91 | RES-CHIP | 22 | 5% | 1/10W |
| R2932 | 1-216-077-91 | RES-CHIP | 15K | 5% | 1/10W |
| R2933 | 1-216-013-00 | RES-CHIP | 33 | 5% | 1/10W |
| R2934 | 1-216-013-00 | RES-CHIP | 33 | 5% | 1/10W |
| R2935 | 1-216-013-00 | RES-CHIP | 33 | 5% | 1/10W |
| R2941 | 1-216-013-00 | RES-CHIP | 33 | 5% | 1/10W |
| R2942 | 1-216-013-00 | RES-CHIP | 33 | 5% | 1/10W |

<CRYSTAL>

X2901 1-767-925-21 VIBRATOR, CRYSTAL (12MHz)
