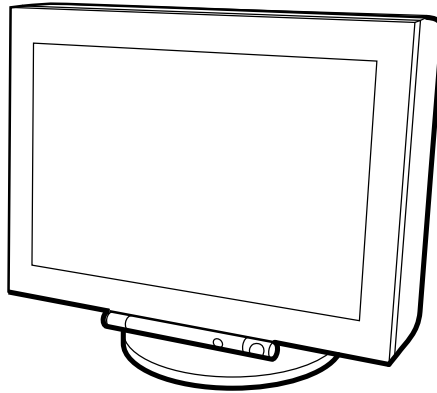


GDM-FW900

SERVICE MANUAL

US Model
Canadian Model
AEP Model
Chassis No. SCC-L34A-A



G1W CHASSIS

SPECIFICATIONS

CRT	0.23 – 0.27 mm aperture grille pitch 24 inches measured diagonally 90-degree deflection FD Trinitron	Deflection frequency*	Horizontal: 30 to 121 kHz Vertical: 48 to 160 Hz
Viewable image size	Approx. 482.1 × 308.2 mm (w/h) (19 × 12 1/4 inches) 19.8" viewing image	AC input voltage/current Power consumption	100 to 240 V, 50/60 Hz, 2.2 – 1.2 A Approx. 170 W (with no USB devices connected)
Resolution	Maximum (16:10) Horizontal: 2304 dots Vertical: 1440 lines Maximum (4:3) Horizontal: 2048 dots Vertical: 1536 lines Recommended (16:10) Horizontal: 1920 dots Vertical: 1200 lines	Operating temperature Dimensions	10°C to 40°C Approx. 571.5 × 500 × 522.5 mm (w/h/d) (22 1/2 × 19 3/4 × 20 5/8 inches) Approx. 42 kg (92 lb 10 oz)
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)	Plug and Play Supplied accessories	DDC1/DDC2B/DDC2Bi, GTF** <ul style="list-style-type: none">• Power cord (1)• 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)
Standard image area	16:10 Approx. 474 × 296 mm (w/h) (18 3/4 × 11 3/4 inches) 4:3 Approx. 395 × 296 mm (w/h) (15 5/8 × 11 3/4 inches) 5:4 Approx. 370 × 296 mm (w/h) (14 5/8 × 11 3/4 inches)	Mass	

- * 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.

TRINITRON® COLOR GRAPHIC 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.

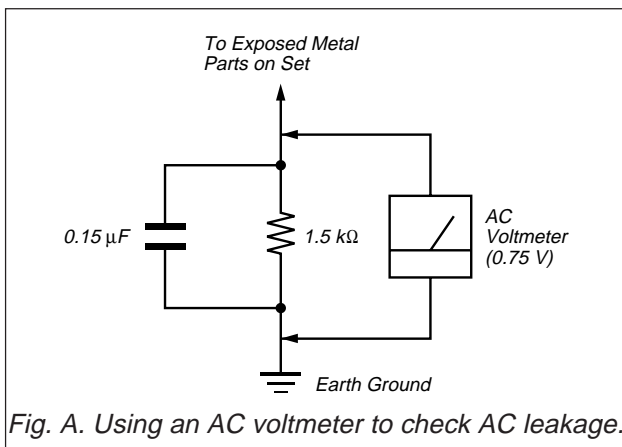


Fig. A. Using an AC voltmeter to check AC leakage.

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

Power mode	Power consumption*	① (power) indicator
normal operation	≤ 170 W	green
1 standby	≤ 15 W	green and orange alternate
2 suspend (sleep)**	≤ 15 W	green and orange alternate
3 active off*** (deep sleep)**	≤ 1 W	orange
power off	0 W	off

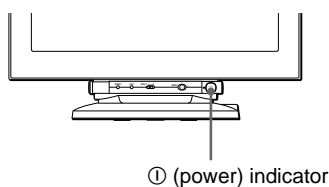
* Figures reflect power consumption when no USB compatible peripherals are connected to the monitor.

** "Sleep" and "deep sleep" are power saving modes defined by the Environmental Protection Agency.

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

DIAGNOSIS

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 ① (power) indicator will either light up green or flash orange. If the ① (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 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 ① (power) indicator is flashing orange

Press the ① (power) button twice to turn the monitor off and then on.

If the ① (power) indicator lights up green, the monitor is working properly.

■ If the ① (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 ① (power) button twice to turn the monitor off and then on.**
- 3 Move the joystick to the right for 2 seconds before the monitor enters power saving mode.**



If the ① (power) indicator is still flashing, there is a potential monitor failure. Count the number of seconds between orange flashes of the ① (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.

TIMING SPECIFICATION

PRIMARY MODE MODE AT PRODUCTION	MODE 1	MODE 2	MODE 3	MODE 4	PRIMARY MODE 5	MODE 6	MODE 7	MODE 8	MODE 9
RESOLUTION (HXV)	640 X 480	720 X 400	1920 X 1080	1600 X 1024	1920 X 1200	2304 X 1440	1600 X 1024	1920 X 1080	1920 X 1080
CLOCK	25.175 MHz	28.322 MHz	172.798 MHz	198.832 MHz	282.744 MHz	383.863 MHz	170.447 MHz	216.023 MHz	216.023 MHz
— HORIZONTAL —									
H-FREQ	31.469 kHz	31.469 kHz	67.080 kHz	91.375 kHz	107.100 kHz	120.560 kHz	81.320 kHz	84.384 kHz	84.384 kHz
	usec	usec	usec	usec	usec	usec	usec	usec	usec
H. TOTAL	31.778	31.777	14.908	10.944	9.337	8.295	12.297	11.851	11.851
H. BLK	6.356	6.355	3.796	2.897	2.546	2.292	2.910	2.963	2.963
H. FP	0.636	0.636	0.694	0.563	0.538	0.458	0.188	0.222	0.222
H. SYNC	3.813	3.813	1.204	0.885	0.736	0.667	0.939	1.000	1.000
H. BP	1.907	1.907	1.898	1.448	1.273	1.167	1.784	1.741	1.741
H. ACTIV	25.422	25.422	11.111	8.047	6.791	6.002	9.387	8.888	8.888
— VERTICAL —									
V. FREQ(Hz)	59.940 Hz	70.087 Hz	60.000 Hz	85.000 Hz	85.000 Hz	80.000 Hz	76.000 Hz	72.000 Hz	72.000 Hz
	lines	lines	lines	lines	lines	lines	lines	lines	lines
V. TOTAL	525	449	1118	1075	1260	1507	1070	1172	1172
V. BLK	45	49	38	51	60	67	46	92	92
V. FP	10	12	1	1	1	1	3	3	3
V. SYNC	2	2	3	3	3	3	3	3	3
V. BP	33	35	34	47	56	63	40	86	86
V. ACTIV	480	400	1080	1024	1200	1440	1024	1080	1080
— SYNC —									
INT(G)	NO	NO	NO	NO	NO	NO	NO	NO	NO
EXT(H/V)/POLARITY	YES N/N	YES N/P	YES N/N	YES N/N	YES N/N	YES N/N	YES N/N	YES N/N	YES N/N
EXT(CS)/POLARITY	NO	NO	NO	NO	NO	NO	NO	NO	NO
INT/NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT

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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.

For the customers in the UK

If you use the monitor in the UK, be sure to use the supplied UK power cable.

Example of plug types



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

For the customers in the U.S.A.

If you do not use the appropriate cord, this monitor will not conform to mandatory FCC standards.

Example of plug types



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

- 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 3 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

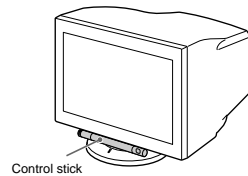
Maintenance

- 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.

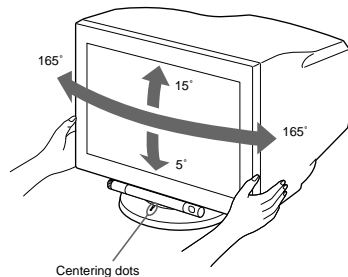
Never grasp the control stick when you transport the monitor.



Control stick

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 dots on the stand. Hold the monitor at the bottom with both hands when you turn it horizontally or vertically.

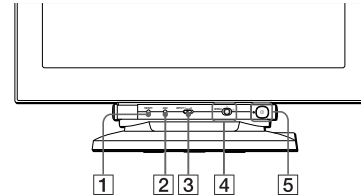


Centering dots

Identifying parts and controls

See the pages in parentheses or further details.

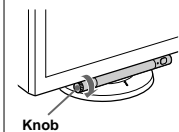
Front



To use the control stick

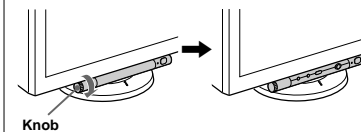
This monitor has a cylindrical swivel control stick. To operate the controls, turn the knob on the left side downward to expose the control buttons. When the control buttons are not needed, turn the knob up to hide the control buttons.

When not using



Knob

When using



1 RESET (reset) button (page 16)

This button resets the adjustments to the factory settings.

2 ASC (auto sizing and centering) button (page 9)

This button automatically adjusts the size and centering of the picture.

3 INPUT (input) switch (page 9)

This switch selects the HD15 or BNC video input signal.

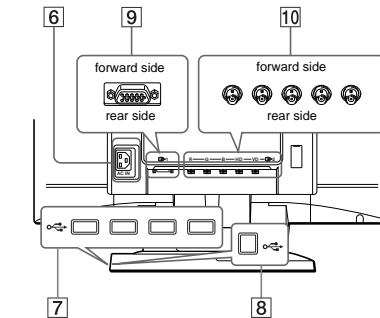
4 Joystick (page 11)

The joystick is used to display the menu and make adjustments to the monitor, including brightness and contrast adjustments.

5 (power) switch and indicator (pages 7, 16, 20)

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

Rear



6 AC IN connector (page 7)

This connector provides AC power to the monitor.

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

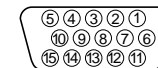
Use these connectors to link USB peripheral devices to the monitor.

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

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

9 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	8	Blue Ground
2	Green (Composite Sync on Green)	9	DDC + 5V*
3	Blue	10	Ground
4	ID (Ground)	11	ID (Ground)
5	DDC Ground*	12	Bi-Directional Data (SDA)*
6	Red Ground	13	H. Sync
7	Green Ground	14	V. Sync
		15	Data Clock (SCL)*

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

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

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

GB

Setup

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

- Power cord (1)
- 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)

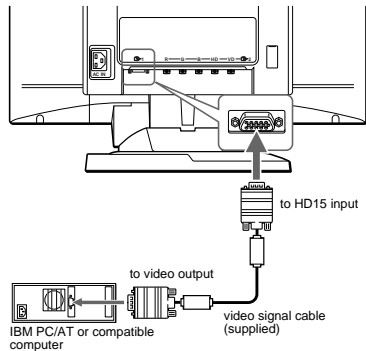
Step 1: Connect your monitor to your computer

Turn off the monitor and computer before connecting.

Notes

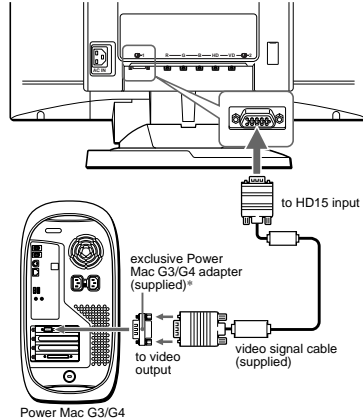
- Do not touch the pins of the video signal cable connector as this might bend the pins.
- When connecting the video signal cable, check the alignment of the connector. Do not force the connector in the wrong way or the pins might bend.

■ Connecting to an IBM PC/AT or compatible computer



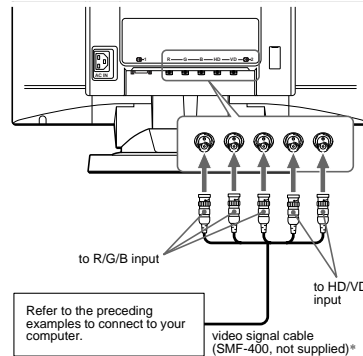
■ Connecting to a Macintosh computer

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 five BNC connectors



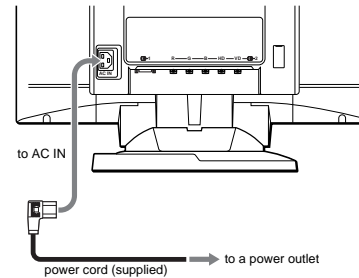
* Connect the cables from left to right in the following order: Red-Green-Blue-HD-VD.

Note

Plug & Play (DDC) does not apply to the five 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 INPUT SIGNAL appears on the screen, try changing the input signal (page 9), and confirm that your computer's graphic 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 graphic board so that the horizontal frequency is between 30 – 121 kHz, and the vertical frequency is between 48 – 160 Hz.

For more information about the on-screen messages, see "Trouble symptoms and remedies" on page 18.

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.
If your PC/graphic board has difficulty communicating with this monitor, download the specific driver by accessing the web site of the OS's manufacturer.

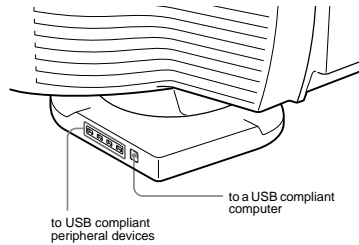
For customers using Windows NT4.0

Monitor setup in Windows NT4.0 does not use the display driver. Refer to the Windows NT4.0 instruction manual for further details on adjusting the resolution, refresh rate, and number of colors.

GB

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

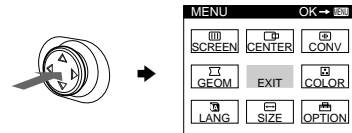
- Not all computers and /or operating systems support USB configurations. Check your computer's instruction manual to see if you can connect USB devices.
- In most cases, USB driver software needs to be installed on the host computer. Refer to the peripheral device's instruction manual for further details.
- 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 (LANG)

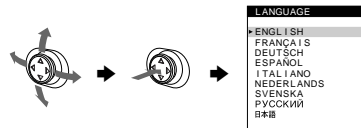
English, French, German, Spanish, Italian, Dutch, Swedish, Russian and Japanese versions of the on-screen menus are available. The default setting is English.

- 1 Press the joystick.

See page 11 for more information on using the joystick.



- 2 Move the joystick to highlight LANG and press the joystick again.



- 3 Move the joystick up or down to select a language and press the joystick again.

- 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 joystick once to return to the main menu, and twice to return to normal viewing. If no buttons are pressed, the menu closes automatically after about 30 seconds.

To reset to English

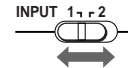
Press the RESET button while the LANGUAGE menu is displayed on the screen.

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 switch between the two computers, use the INPUT switch.

Move the INPUT switch.

The currently selected connector ("INPUT 1" : HD15 or "INPUT 2" : BNC) appears on the screen for a few seconds.



Note

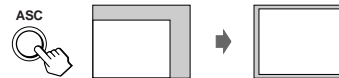
If no signal is input to the selected connector, NO INPUT SIGNAL appears on the screen. After a few seconds, the monitor enters the power saving mode. If this happens, switch to the other connector.

Automatically sizing and centering the picture (AUTO)

You can easily adjust the picture to fill the screen by pressing the ASC (auto sizing and centering) button.

Press the ASC button.

The picture automatically fills the screen.



Notes

- This function is intended for use with a computer running Windows or similar graphic user interface software that provides a full-screen picture. It may not work properly if the background color is dark or if the input picture does not fill the screen to the edges (such as an MS-DOS prompt).
- The picture will fill the screen to the edges only if the aspect ratio of the picture is 16:10. Pictures with an aspect ratio other than 16:10 are displayed at their actual resolution and do not fill the screen to the edges.
- The displayed image moves for a few seconds while this function is performed. This is not a malfunction.

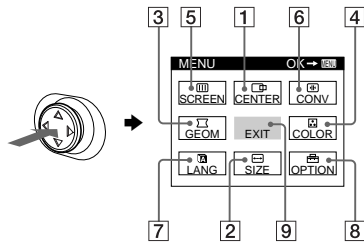
GB

Customizing Your Monitor

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

Navigating the menu

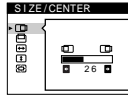
Press the joystick to display the main MENU on your screen. See page 11 for more information on using the joystick.



Use the joystick to select one of the following menus.

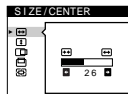
1 CENTER (page 12)

Select the CENTER menu to adjust the picture's centering or zoom.



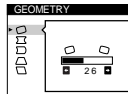
2 SIZE (page 12)

Select the SIZE menu to adjust the picture's size or zoom.



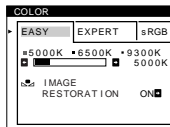
3 GEOM (page 12)

Select the GEOM menu to adjust the picture's rotation and shape.



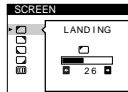
4 COLOR (page 12)

Select the COLOR menu to adjust the picture's color temperature. You can use this to match the monitor's colors to a printed picture's colors.



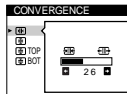
5 SCREEN (page 14)

Select the SCREEN menu to adjust the picture's quality. You can adjust the landing and moire cancellation effect.



6 CONV (page 15)

Select the CONV menu to adjust the picture's horizontal and vertical convergence.



7 LANG (page 8)

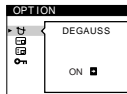
Select the LANG menu to choose the on-screen menu's language.



8 OPTION (page 15)

Select the OPTION menu to adjust the monitor's options. The options include:

- degaussing the screen
- changing the on-screen menu position
- locking the controls

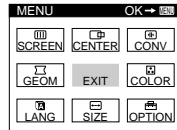


9 EXIT

Select EXIT to close the menu.

■ Displaying the current input signal

The horizontal and vertical frequencies of the current input signal are displayed under the main MENU. If the signal matches one of this monitor's factory preset modes, the resolution is also displayed.



the resolution of the current input signal

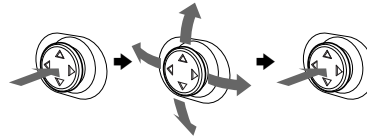
(107.1kHz / 85Hz)
(1920x1200)

the horizontal and vertical frequencies of the current input signal

■ Using the joystick

1 Display the main MENU and select the menu you want to adjust.

Press the joystick once to display the main MENU. Then move the joystick up, down, left, or right to highlight the desired menu. Press the joystick to select the menu item.



2 Adjust the menu.

Move the joystick up, down, left, or right to make the adjustment.



3 Close the menu.

Press the joystick once to return to the main menu, and twice to return to normal viewing. If no buttons are pressed, the menu closes automatically after about 30 seconds.



■ Resetting the adjustments

Press the RESET button. See page 16 for more information on resetting the adjustments.



Adjusting the brightness and contrast

Brightness and contrast adjustments are made using a separate BRIGHTNESS/CONTRAST menu. These settings are stored in memory for the signals from the currently selected input connector.

1 Move the joystick in any direction.

The BRIGHTNESS/CONTRAST menu appears on the screen.

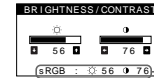


2 Move the joystick up or down to adjust the brightness (☺), and left or right to adjust the contrast (☹).

If you select the sRGB mode in the COLOR menu

Confirm that the brightness (☺) and contrast (☹) values are adjusted respectively to the numbers to be set in the sRGB mode shown in the BRIGHTNESS/CONTRAST menu. If not, press the RESET button (for less than 2 seconds).

GB






Values to be set in the sRGB mode

For more information about using the sRGB mode, see "Adjusting the color of the picture (COLOR)" on page 12.

The menu automatically disappears after about 3 seconds.




Adjusting the centering of the picture (CENTER)

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

- 1 Press the joystick.**
The main MENU appears on the screen.
- 2 Move the joystick to highlight  CENTER and press the joystick again.**
The SIZE/CENTER menu appears on the screen.
- 3 First move the joystick up or down to select  for horizontal adjustment, or  for vertical adjustment. Then move the joystick left or right to adjust the centering.**




Adjusting the size of the picture (SIZE)

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

- 1 Press the joystick.**
The main MENU appears on the screen.
- 2 Move the joystick to highlight  SIZE and press the joystick again.**
The SIZE/CENTER menu appears on the screen.
- 3 First move the joystick up or down to select  for horizontal adjustment, or  for vertical adjustment. Then move the joystick left or right to adjust the size.**


Enlarging or reducing the picture (ZOOM)


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






- 1 Press the joystick.**
The main MENU appears on the screen.
- 2 Move the joystick to highlight  SIZE or  CENTER and press the joystick again.**
The SIZE/CENTER menu appears on the screen.
- 3 Move the joystick up or down to select  (zoom), and move the joystick left or right to enlarge or reduce the picture.**

Note
Adjustment stops when either the horizontal or vertical size reaches its maximum or minimum value.

Adjusting the shape of the picture (GEOM)


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 joystick.**
The main MENU appears on the screen.
- 2 Move the joystick to highlight  GEOM and press the joystick again.**
The GEOMETRY menu appears on the screen.
- 3 First move the joystick up or down to select the desired adjustment item. Then move the joystick left or right to make the adjustment.**

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

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.

- 1 Press the joystick.**
The main MENU appears on the screen.
- 2 Move the joystick to highlight  COLOR and press the joystick again.**
The COLOR menu appears on the screen.
- 3 Move the joystick left or right to select the adjustment mode.**
There are three types of adjustment modes, EASY, EXPERT, and sRGB.

Adjust the selected mode according to the instructions on the next page.

You can set the color temperature in EASY or EXPERT mode for each of the video input connectors.

■ EASY mode

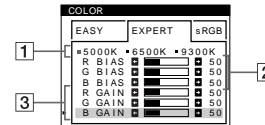
In EASY mode, you can fine tune the color temperature by changing the three preset temperatures — 5000K, 6500K, or 9300K.



- 1 Move the joystick up or down to select the color temperature row [1]. Then move the joystick left or right to select a color temperature.**
The preset color temperatures are 5000K, 6500K, and 9300K. 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.
- 2 If necessary, fine tune the color temperature. Move the joystick up or down to select the color temperature row [2]. Then move the joystick left or right to fine tune the color temperature.**
If you fine tune the color temperature, the new color settings are stored in memory for each of the three color temperatures and item [1] of the on-screen menu changes as follows.
 - [5000K] → [1] 1
 - [6500K] → [2] 2
 - [9300K] → [3] 3

■ EXPERT mode

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





- 1 Move the joystick up or down to select the color temperature row [1]. Then move the joystick left or right to select a color temperature.**
- 2 Move the joystick up or down to select the adjustment item [2]. Then move joystick left or right to adjust the BIAS (black level).**
This adjusts the dark areas of an image.
- 3 Move the joystick up or down to select the adjustment item [3]. Then move the joystick left or right to adjust the GAIN (white level).**
This adjusts the light areas of an image.

You can adjust the R (red), G (green), B (blue) component of the input signal when making changes to items [2] and [3].

If you fine tune the color temperature, the new color settings are stored in memory for each of the three color temperatures and item [1] of the on-screen menu change as follows.



- [5000K] → [1] 1
- [6500K] → [2] 2
- [9300K] → [3] 3

■ 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 menu. Once you select the sRGB mode, the brightness () and contrast () values are automatically set to the values to be set in the sRGB mode.



In order to display the sRGB colors correctly ($\gamma = 2.2$, 6500K), confirm that:

- the brightness () and contrast () values are adjusted respectively to the numbers shown in the BRIGHTNESS/CONTRAST menu. If not, press the RESET button (for less than 2 seconds). For information on how to change the brightness and contrast, see "Adjusting the brightness and contrast" on page 11.
- the color settings of your computer are set to the sRGB profile.

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

GB

Restoring the color from the EASY or sRGB menus (IMAGE RESTORATION function)

The colors of most display monitors tend to gradually lose brilliance over several years of service. The IMAGE RESTORATION feature found in the EASY and sRGB menus allows you to restore the color to the original factory quality levels.

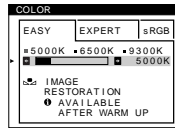
1 Move the joystick left or right to select EASY or sRGB mode.

2 First move the joystick up or down to select (IMAGE RESTORATION). Then move the joystick to the right.

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.

Adjusting the quality of the picture (SCREEN)

The SCREEN settings allow you to adjust the quality of the picture by controlling the moire and landing.

- If the color is irregular at the corners of the screen, adjust the landing.
- If elliptical or wavy patterns appear on the screen, cancel the moire.

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








1 Press the joystick.

The main MENU appears on the screen.

2 Move the joystick to highlight SCREEN and press the joystick again.

The SCREEN menu appears on the screen.

3 First move the joystick up or down to select the desired adjustment item. Then move the joystick left or right to make the adjustment.

Select	To
 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.
 CANCEL MOIRE*	turn the moire cancellation function ON or OFF.  (MOIRE ADJUST) appears in the menu when you select ON.
 MOIRE ADJUST	adjust the degree of moire cancellation until the moire is at a minimum.

* 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.

Example of moire



Note

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

Adjusting the convergence (CONV)

The CONV 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 joystick.

The main MENU appears on the screen.

2 Move the joystick to highlight CONV and press the joystick again.

The CONVERGENCE menu appears on the screen.

3 First move the joystick up or down to select the desired adjustment item. Then move the joystick left or right to make the adjustment.

Select	To
	horizontally shift red or blue shadows
	vertically shift red or blue shadows
 TOP V CONVER TOP	vertically shift red or blue shadows at the top of the screen
 BOT V CONVER BOTTOM	vertically shift red or blue shadows at the bottom of the screen

Additional settings (OPTION)

You can manually degauss (demagnetize) the monitor, change the menu position, and lock the controls.

1 Press the joystick.

The main MENU appears on the screen.

2 Move the joystick to highlight OPTION and press the joystick again.


The OPTION menu appears on the screen.

3 Move the joystick up or down to select the desired adjustment item.

Adjust the selected item according to the following instructions.

■ Degaussing the screen



The monitor is automatically demagnetized (degaussed) when the power is turned on.

To manually degauss the monitor, first move the joystick up or down to select  (DEGAUSS). Then move the joystick to the right.


The screen is degaussed for about 3 seconds. If a second degauss cycle is needed, allow a minimum interval of 20 minutes for the best result.





■ Changing the menu's position

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


To change the menu's on-screen position, first move the joystick up or down to select  (OSD H POSITION) for horizontal adjustment, or  (OSD V POSITION) for vertical adjustment. Then move the joystick left or right to shift the on-screen menu.

■ Locking the controls

To protect adjustment data by locking the controls, first move the joystick up or down to select  (CONTROL LOCK). Then move the joystick to the right, to select ON.

Only the  (power) switch, EXIT, 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.

Resetting the adjustments

This monitor has the following three reset methods. Use the RESET button to reset the adjustments.



■ Resetting a single adjustment item

Use the joystick to select the adjustment item you want to reset, and press the RESET button.

■ Resetting all of the adjustment data for the current input signal

Press the RESET button when no menu is displayed on the screen. Note that the following items are not reset by this method:

- on-screen menu language (page 8)
- adjustment mode in the COLOR menu (EASY, EXPERT, sRGB) (page 12)
- on-screen menu position (page 15)
- control lock (page 15)

■ Resetting all of the adjustment data for all input signals

Press and hold the RESET button for more than 2 seconds.

Note
The RESET button does not function when (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 the factory preset modes, the digital Multiscan technology of this monitor ensures that a clear picture appears on the screen for any timing in the monitor's frequency range (horizontal: 30 – 121 kHz, vertical: 48 – 160 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 graphic board manual or the utility program which comes with your graphic 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 the monitor is connected to a computer or video graphics board that is DPMS (Display Power Management Signaling) compliant, the monitor will automatically reduce power consumption in three stages as shown below.

Power mode	Power consumption*	① (power) indicator
normal operation	≤ 170 W	green
1 standby	≤ 15 W	green and orange alternate
2 suspend (sleep)**	≤ 15 W	green and orange alternate
3 active off*** (deep sleep)**	≤ 1 W	orange
power off	0 W	off

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

** "Sleep" and "deep sleep" are power saving modes defined by the Environmental Protection Agency.

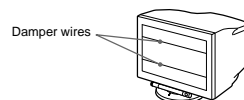
*** When your computer enters power saving mode, the input signal is cut and NO INPUT SIGNAL appears on the screen before the monitor enters active off mode. After a few seconds, the monitor enters power saving mode.

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.

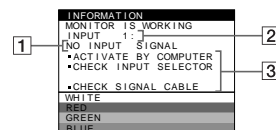


On-screen messages

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

If NO INPUT SIGNAL appears on line 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).

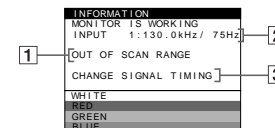
3 The remedies

One or more of the following messages may 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 graphic board is completely seated in the correct bus slot.
- If **CHECK INPUT SELECTOR** appears on the screen, try changing the input signal (page 9).
- If **CHECK SIGNAL CABLE** appears on the screen, check that the monitor is correctly connected to the computer (page 6).

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 graphic board so that the horizontal frequency is between 30 - 121 kHz, and the vertical frequency is between 48 - 160 Hz.

For more information, see "Trouble symptoms and remedies" on page 18.

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

While the monitor is receiving a video signal, press and hold the joystick 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.

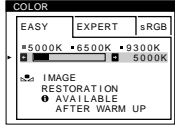
- Model name: GDM-FW900
- Serial number
- Name and specifications of your computer and graphic board.

GB

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 20) if the following recommendations do not resolve the problem.

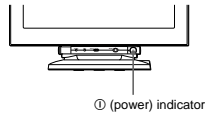
Symptom	Check these items
No picture	
If the (power) indicator is not lit	<ul style="list-style-type: none"> Check that the power cord is properly connected. Check that the (power) switch is in the "on" position.
If the NO INPUT SIGNAL message appears on the screen, or if the (power) indicator is either orange or alternating between green and 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 – 121 kHz Vertical: 48 – 160 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 20).
If using Windows 95/98	<ul style="list-style-type: none"> If your PC/graphic board has difficulty communicating with this monitor, download the specific driver by accessing the web site of Microsoft Corporation.
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 graphic 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 graphic 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 brightness and contrast (page 11). Degauss the monitor* (page 15). If CANCEL MOIRE is ON, the picture may become fuzzy. Decrease the moire cancellation effect 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"> Press the ASC button (page 9). Adjust the size or centering (page 12). Note that some video modes do not fill the screen to the edges.
Edges of the image are curved	<ul style="list-style-type: none"> Adjust the geometry (page 12).
Wavy or elliptical pattern (moire) is visible	<ul style="list-style-type: none"> Set CANCEL MOIRE to ON and adjust the degree of moire cancellation until the moire is at a minimum (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 15). 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).
White does not look white	<ul style="list-style-type: none"> Adjust the color temperature (page 12). Check that the five 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 15).
Monitor buttons do not operate (ON appears on the screen)	<ul style="list-style-type: none"> If the control lock is set to ON, set it to OFF (page 15).
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 14. 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. <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. For customers using Windows 95 <ol style="list-style-type: none"> Right-click on My Computer and select Properties. Click on the Device Manager tab. Scroll down and select Universal Serial Bus Controller. If Universal Serial Bus Controller does not appear, you need to load a USB supplement disk. Contact your computer's manufacturer for more information about obtaining a USB supplement disk. Select Generic USB Device from the USB controller list and click on Properties. If there is a check in the box next to "Disable in this hardware profile," remove the check. Click on Refresh.
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 3 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.

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 **Move the joystick to the right 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

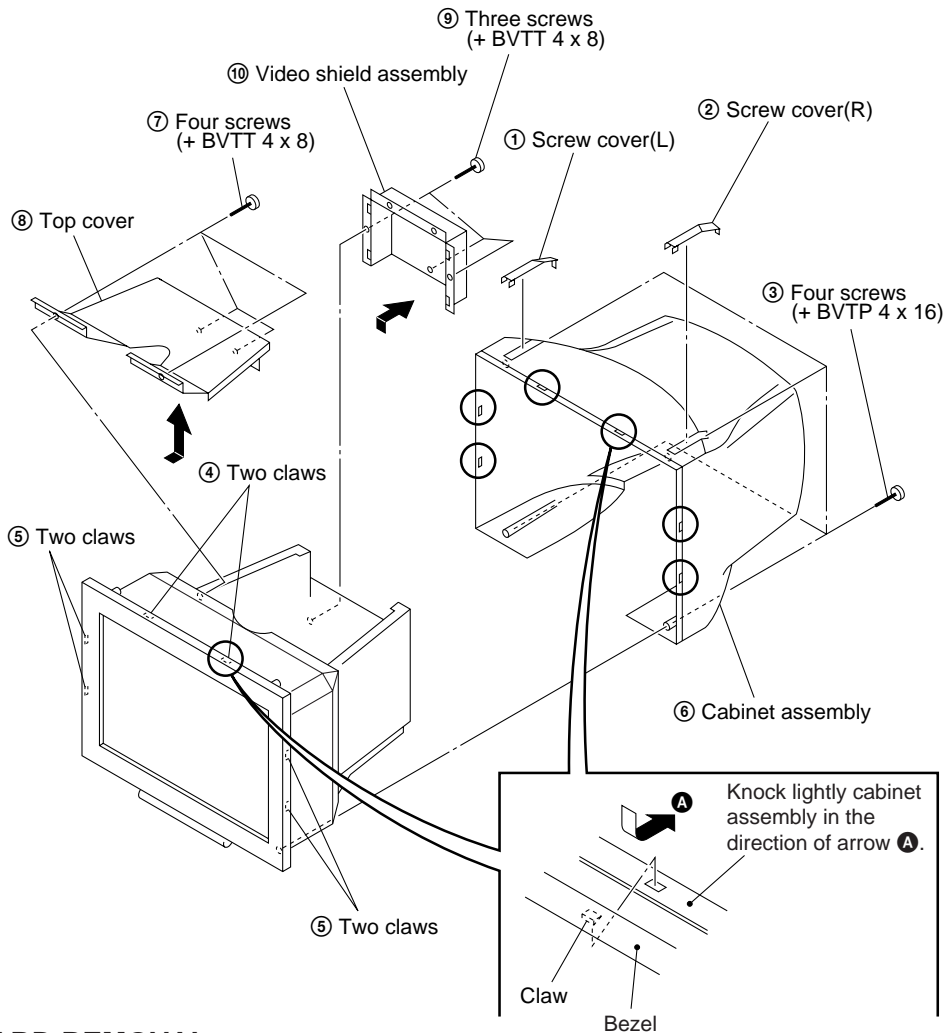
CRT	0.23 – 0.27 mm aperture grille pitch 24 inches measured diagonally 90-degree deflection FD Trinitron
Viewable image size	Approx. 482.1 × 308.2 mm (w/h) (19 × 12 1/4 inches) 19.8" viewing image
Resolution	Maximum (16:10) Horizontal: 2304 dots Vertical: 1440 lines Maximum (4:3) Horizontal: 2048 dots Vertical: 1536 lines Recommended (16:10) Horizontal: 1920 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	16:10 Approx. 474 × 296 mm (w/h) (18 3/4 × 11 3/4 inches) 4:3 Approx. 395 × 296 mm (w/h) (15 5/8 × 11 3/4 inches) 5:4 Approx. 370 × 296 mm (w/h) (14 5/8 × 11 3/4 inches)
Deflection frequency*	Horizontal: 30 to 121 kHz Vertical: 48 to 160 Hz
AC input voltage/current	100 to 240 V, 50/60 Hz, 2.2 – 1.2 A
Power consumption	Approx. 170 W (with no USB devices connected)
Operating temperature	10°C to 40°C
Dimensions	Approx. 571.5 × 500 × 522.5 mm (w/h/d) (22 1/2 × 19 3/4 × 20 5/8 inches)
Mass	Approx. 42 kg (92 lb 10 oz)
Plug and Play	DDC1/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.

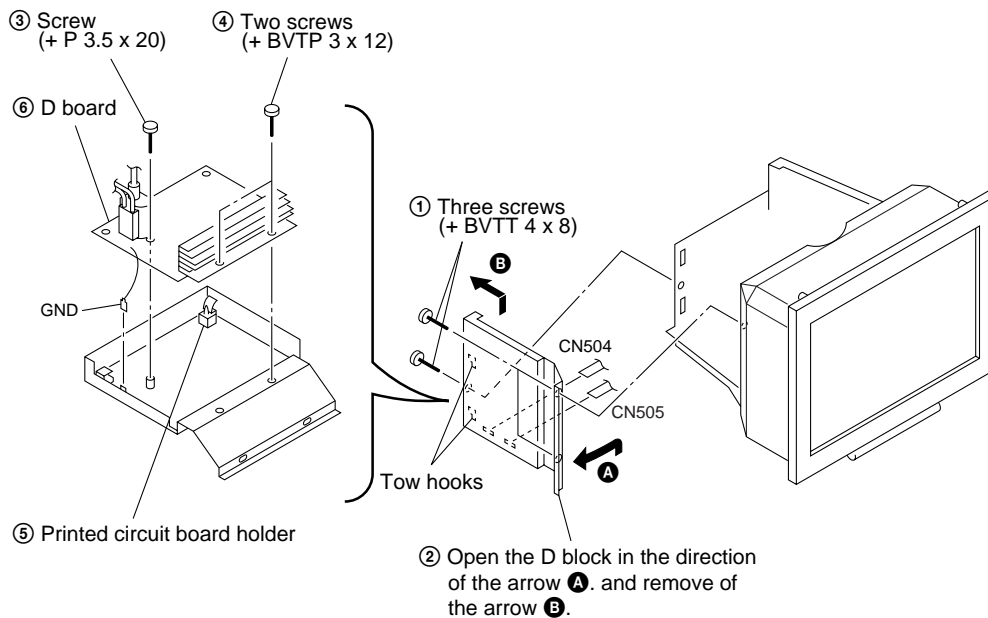
Design and specifications are subject to change without notice.

SECTION 2 DISASSEMBLY

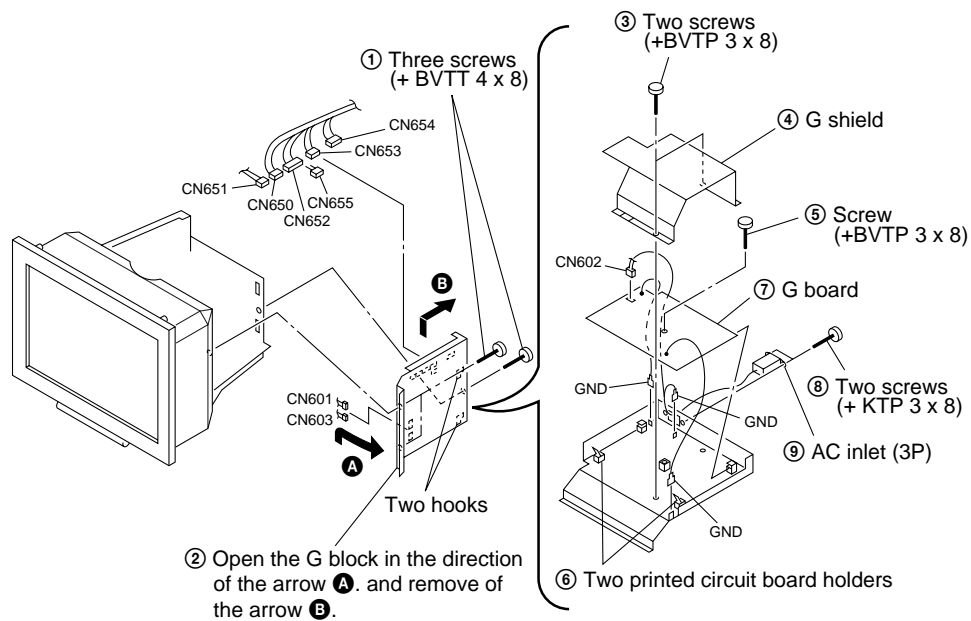
2-1. CABINET ASSY REMOVAL



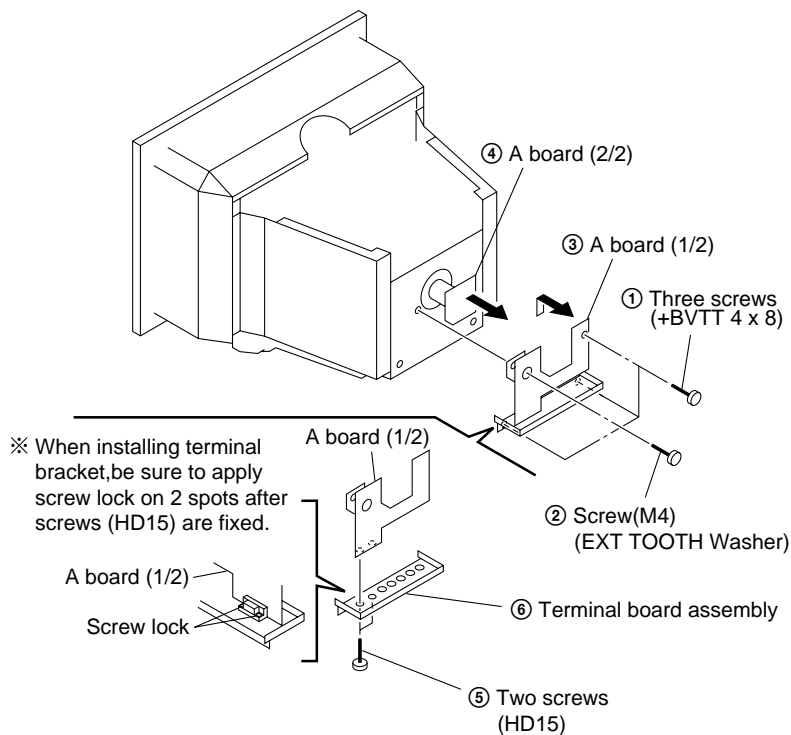
2-2. D BOARD REMOVAL



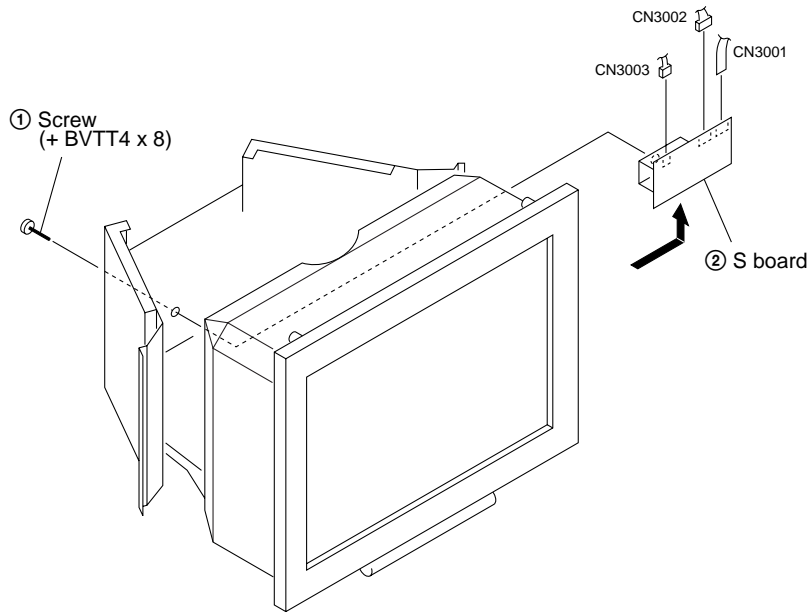
2-3. G BOARD REMOVAL



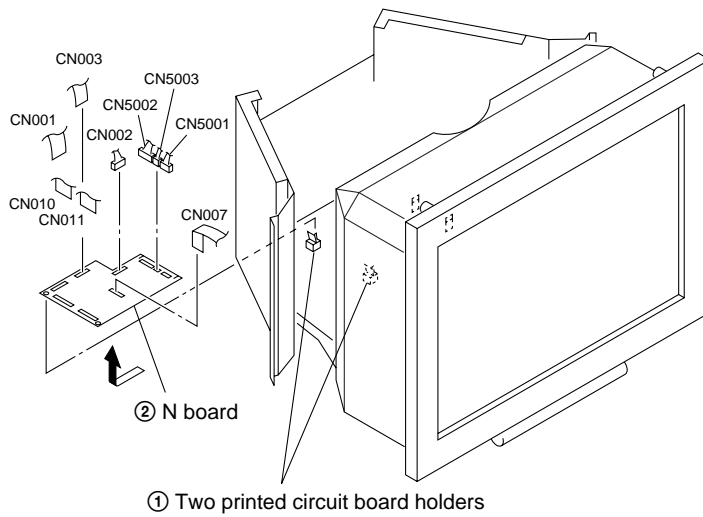
2-4. A BOARD AND I/O TERMINAL BOARD ASSY REMOVAL



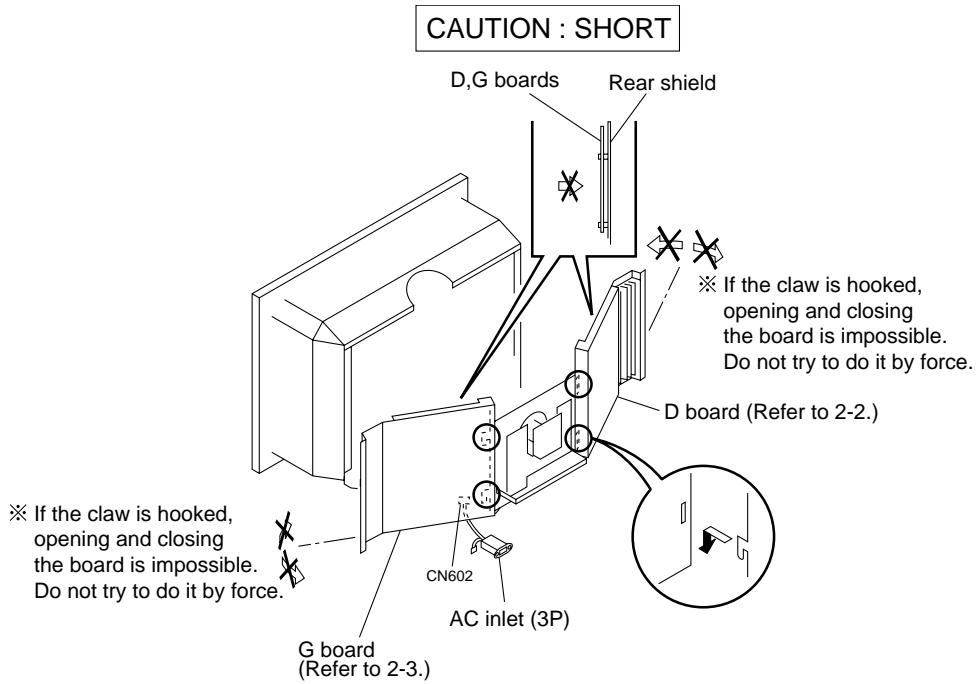
2-5. S BOARD REMOVAL



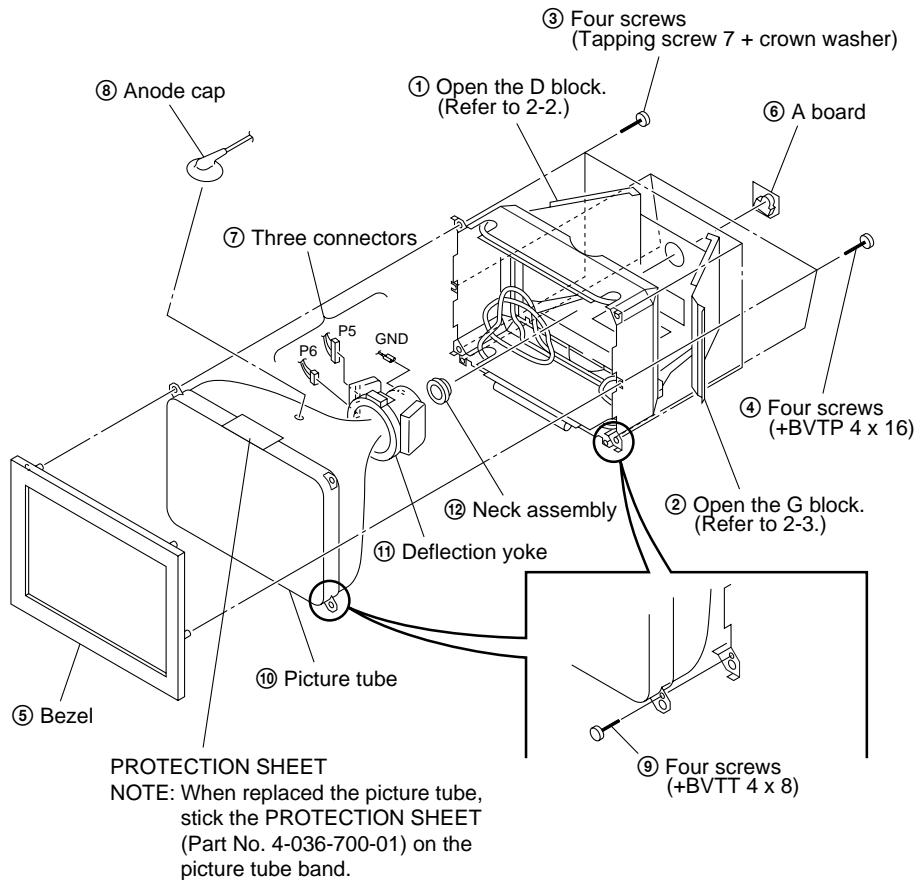
2-6. N BOARD REMOVAL



2-7. SERVICE POSITION

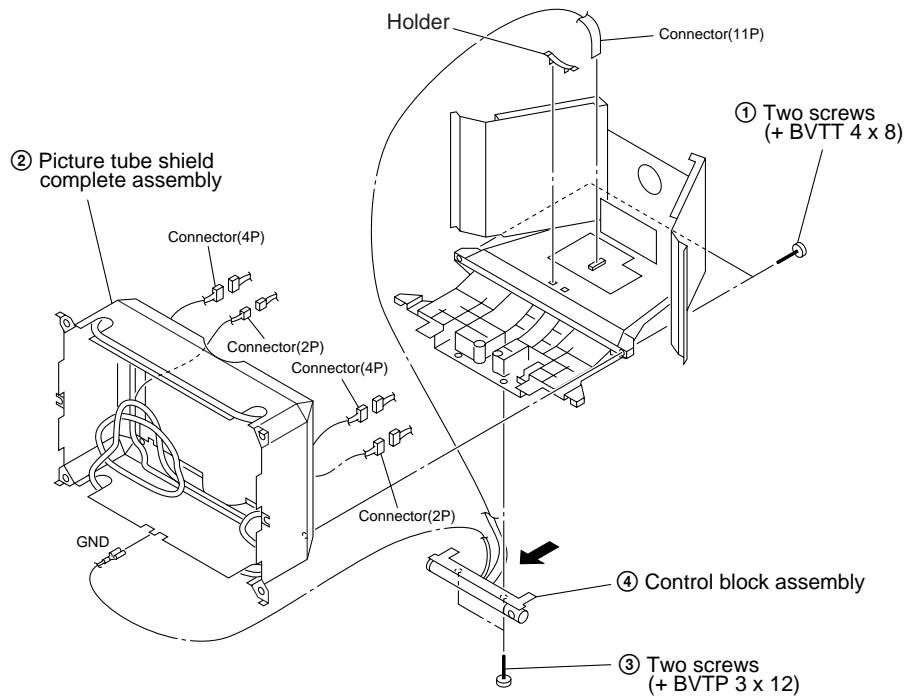


2-8. PICTURE TUBE REMOVAL



2-9. CONTROL BLOCK ASSY REMOVAL

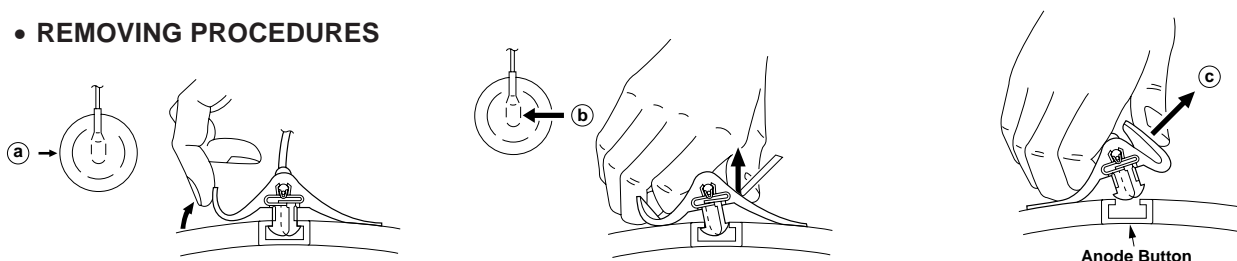
※ Remove the picture tube.(Refer to 2-8.)



• 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.

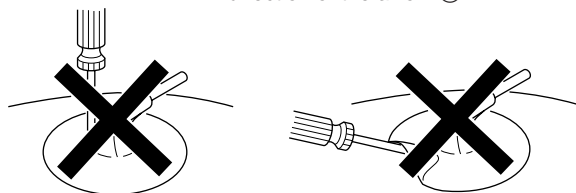
• REMOVING PROCEDURES



- 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).

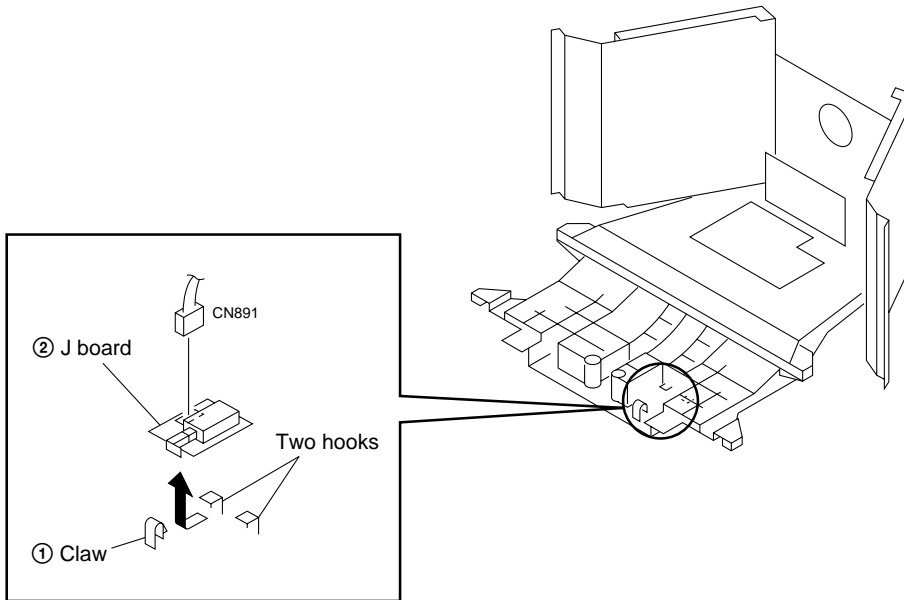
• HOW TO HANDLE AN ANODE-CAP

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

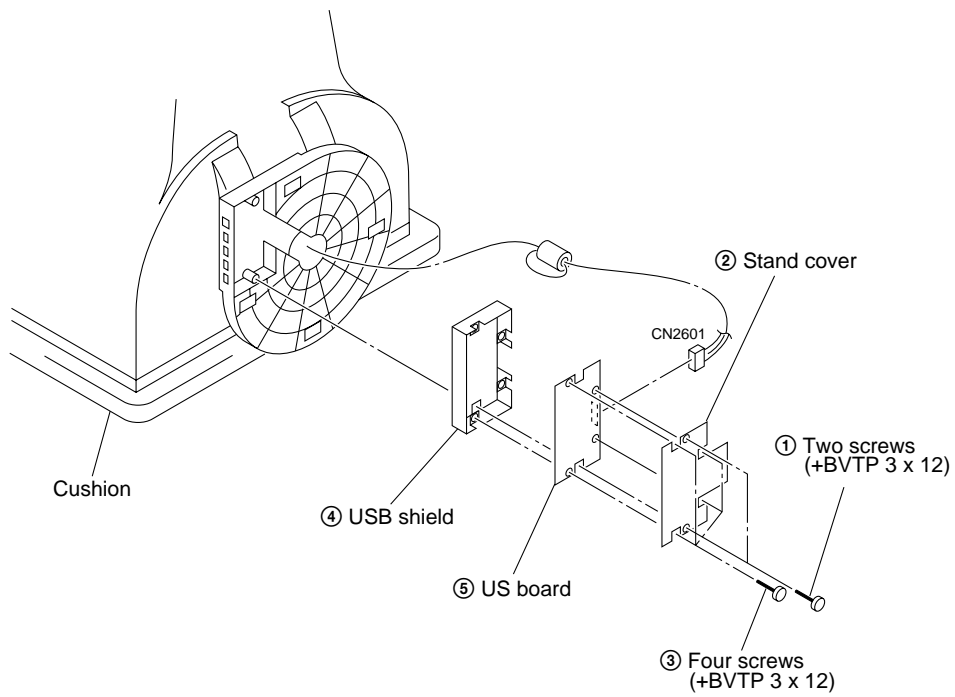


2-10. J BOARD REMOVAL

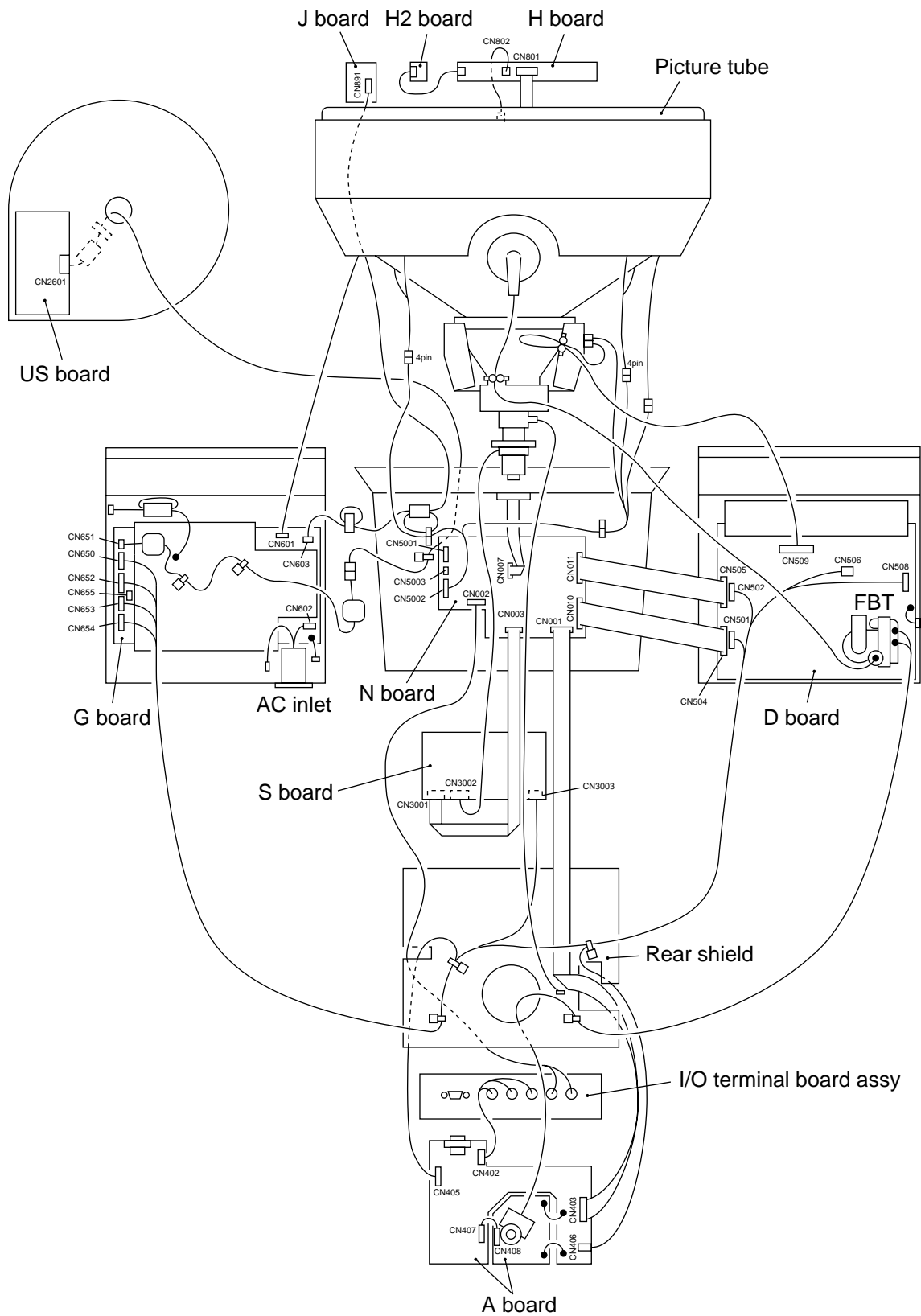
※ Remove the control block assembly.(Refer to 2-9.)



2-11. US BOARD REMOVAL



2-12. 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 IC901, R923, R924, R929, R943, T902(FBT) • Mounted D Board
HV Protector Circuit Check	D Board C922, C926, D912, D915, D921, Q907, Q908, R921, R922, R932, R937, R939, T902(FBT) • Mounted D Board
Beam Current Protector Circuit Check	D Board C921, C933, D901, D913, R920, R928, R930, R931, T902(FBT) • Mounted D Board N Board IC001, R031, R032 • Mounted N Board

* Confirm one minute after turning on the power.

a) HV Regulator Circuit Check

- 1) Enter black crosshatch signal (black on white background), and check that high voltage is in the specified range.
[Specification]: 28.50 ± 0.10 kV
- 2) Check that the voltage of D912 cathode on the D board is 29.0 V or more.

b) HV Protector Circuit Check

- 1) Enter black crosshatch signal (black on white background).
- 2) Apply the specified voltage to the D912 cathode on the D board, and check that high voltage is 0.1 kV or less.
[Specification]: $34.00 + 0.00/- 0.05$ V

c) Beam Current Protector Circuit Check

(1st Protector): D Board

- 1) Apply 4.5 V DC to CN504 ⑩ pin on the D board, and check high voltage value.
- 2) Connect constant current source to a section between T902 (FBT) ⑪ pin and ⑫ pin (GND) on the D board, and check that high voltage checked in 1) lowers by 1.50 kV or more when the specified current flows to the ⑪ pin.
[Specification]: $2.00 + 0.00/- 0.01$ mA

d) Beam Current Protector Circuit Check

(2nd Protector): D Board

- 1) Connect constant current source to a section between T902 (FBT) ⑪ pin and ⑫ pin (GND) on the D board, and check that the voltage of CN504 ⑩ pin becomes 0 V or less when the specified current flows to the ⑪ pin.
[Specification]: $1.63 + 0.00/- 0.01$ mA

e) Beam Current Protector Circuit Check

: G Board

- 1) Apply 264 V AC.
- 2) Enter about 5 V to CN650 ④ pin on the G board, and check that the output voltage of CN653 ② pin is about 15 V.
- 3) Enter about 0 ± 0.2 V to CN650 ④ pin, and check that the output voltage of CN653 ② pin becomes 1.0 V or less.

f) Beam Current Protector Circuit Check

: N Board

- 1) Check that the protector operates, when the voltage of CN010 ⑩ pin on the N board is lowered to 0 V or less (for more than 2 seconds).

SECTION 4

ADJUSTMENTS

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

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

• Landing Rough Adjustment

1. Enter the full white signal. (or the full black dots signal).
2. Adjust the contrast to the maximum.
3. Make the screen monogreen.

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

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

Note: "TILT" = "128".

• Landing Fine Adjustment

1. Put the set inside the Helmholtz coil. ("LCC SW" = "12")
2. Input the single green signal and set the "CONTRAST" = "255".

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

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

Input AC 230V to AC IN, turn on and off the power to perform auto degaussing. (Perform auto degaussing by setting "FUNCTION SW" = 1. Return to the original value after use.)

Demagnetize the CRT surface with the hand degausser again.

Note:

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

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

- (2) Adjust in a non-magnetic field.
- (3) If adjusting in a magnetic fields, add the shift from the non-magnetic field in your estimation.
4. Attach the wobbling coil to the designated part of the CRT neck.
5. Attach the sensor of the landing adjustment unit on the CRT surface.
6. Adjust the DY position and purity, and the DY tilt, and landing of the center and 4 corners with the landing checker. After adjustment, set "LCC SW" to "13".

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

"LCC NS" 128 ± 45

"LCC LT", "LCC LB", "LCC RT", "LCC RB"

128 ± 40

Save the service data.

<Specifications>

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

4 corner adjust target : within ± 1

(μm)		
0 ± 3	0 ± 7.5	0 ± 3
0 ± 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

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

7. Tighten DY screw.

Note: Torque 22 ± 2 kg.cm (2.2 ± 0.2 Nm) auto degauss it.

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

9. Check the landing of each corner, and if it does not satisfy the specification, adjust the landing of four corners using "LCC LT", "LCC LB", "LCC RT" and "LCC RB".

However, the register adjustment must be limited within the following range.

"LCC NS" 128 ± 15

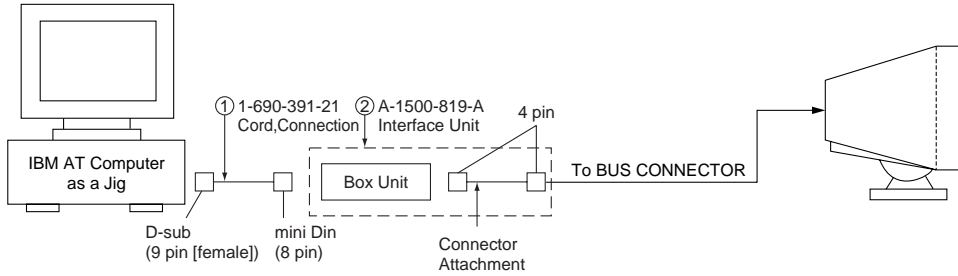
"LCC LT", "LCC LB", "LCC RT", "LCC RB"

128 ± 45

After adjustment, save the service data.

10. Remove the sensor and wobbling coil.
11. Switch the signal to R.G.B., and check that each color is pure.
12. Check that the DY is not tilting, and fix the purity Mg with a white pen. Fix wedges with RTV.

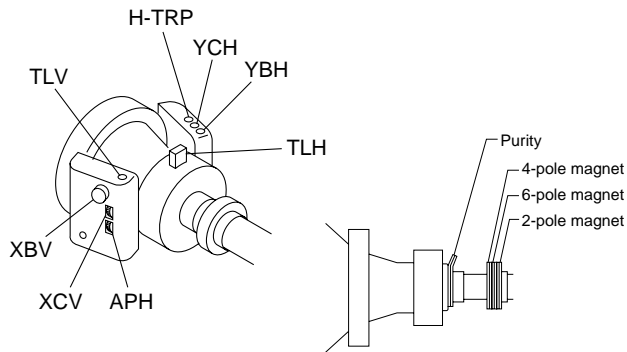
Connect the communication cable of the computer to the connector located on the D board. Run the service software and then follow the instruction.



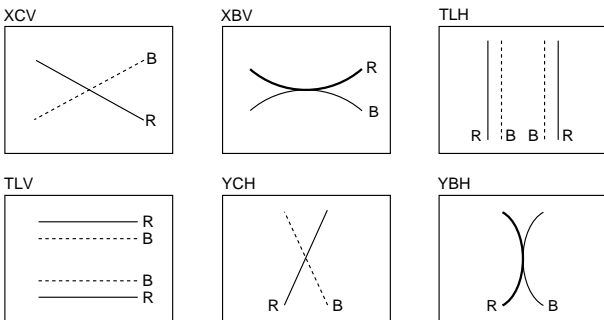
*The parts above ① and ② are necessary for DAS adjustment.

• Convergence Rough Adjustment

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



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



• Convergence Specification

	fH	70kHz ≤	70kHz >
	A	0.24 mm	0.24 mm
	B	0.24 mm	0.28 mm
	C	0.28 mm	0.32 mm

• White Balance Adjustment Specification

- 9300K
 $x = 0.283 \pm 0.015$
 $y = 0.298 \pm 0.015$
 (All White)
- 6500K
 $x = 0.313 \pm 0.015$
 $y = 0.329 \pm 0.015$
 (All White)
- 5000K
 $x = 0.346 \pm 0.015$
 $y = 0.359 \pm 0.015$
 (All White)

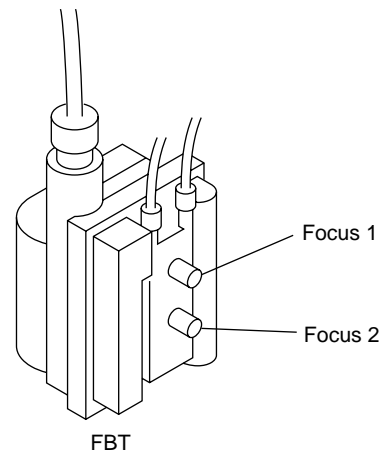
• Vertical and Horizontal Position and Size Specification

	MODE	4 : 3	5 : 4
	A	395	370
	B	296	296
	MODE	16 : 9	16 : 10
	A	474	266
	B	474	296

$a \leq 3.5 \text{ mm}$
 $b \leq 3.5 \text{ mm}$

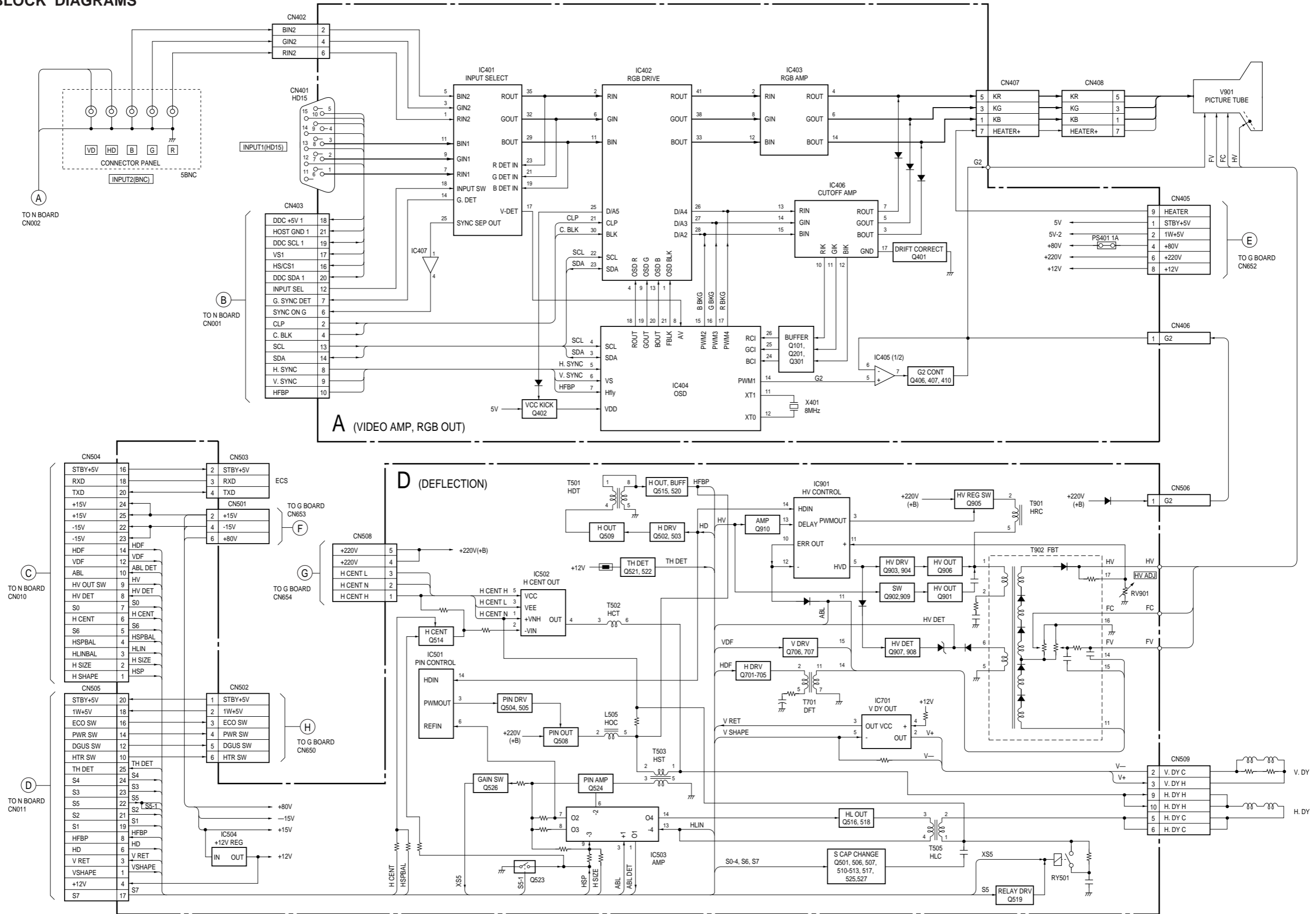
• Focus adjustment

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

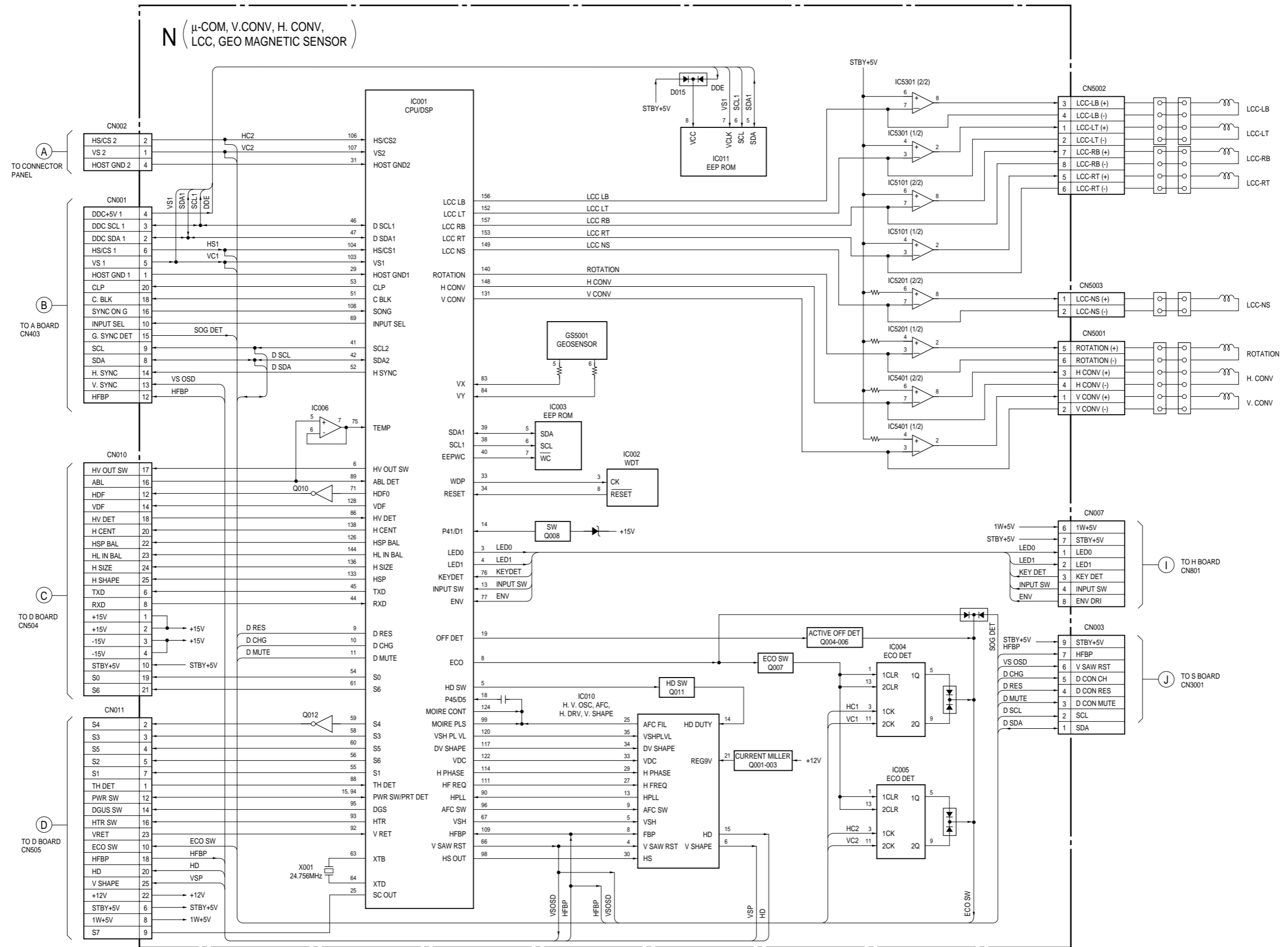


SECTION 5 DIAGRAMS

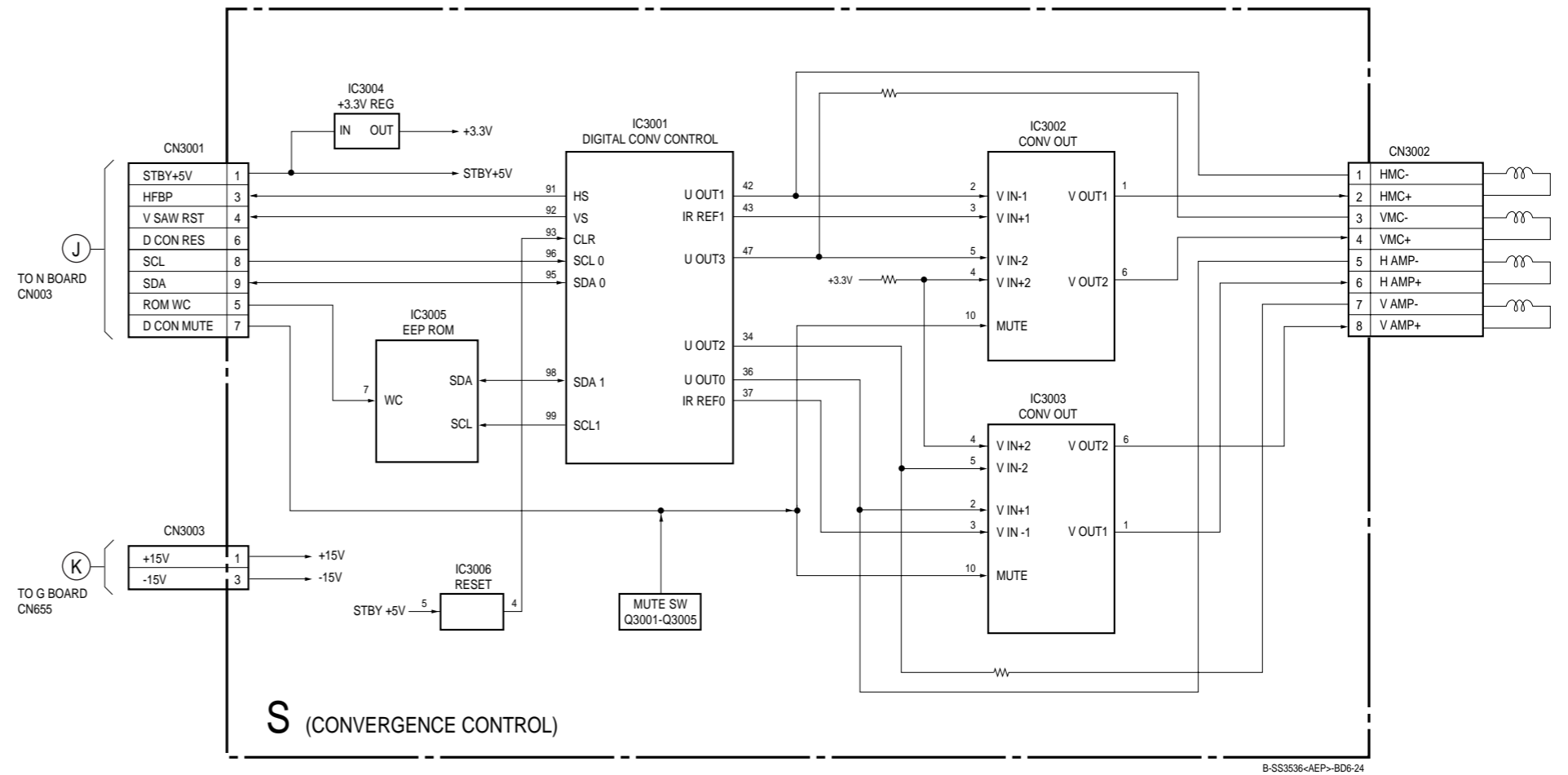
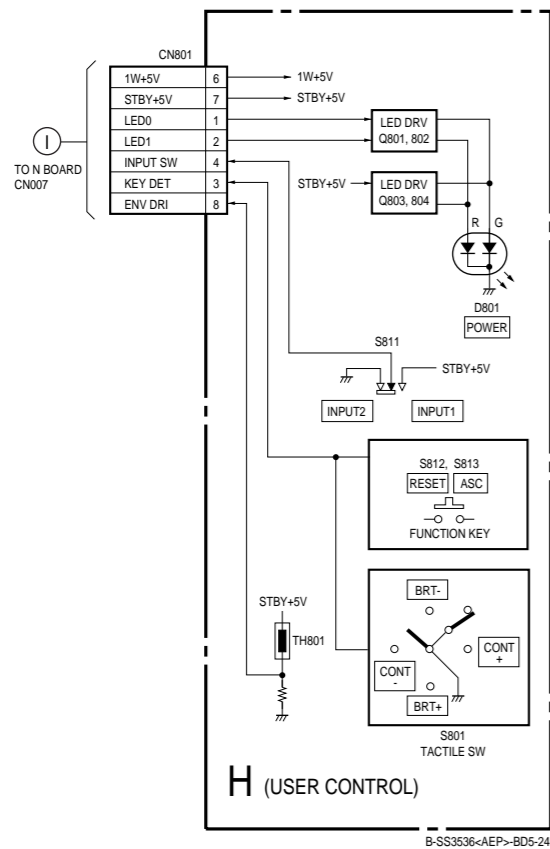
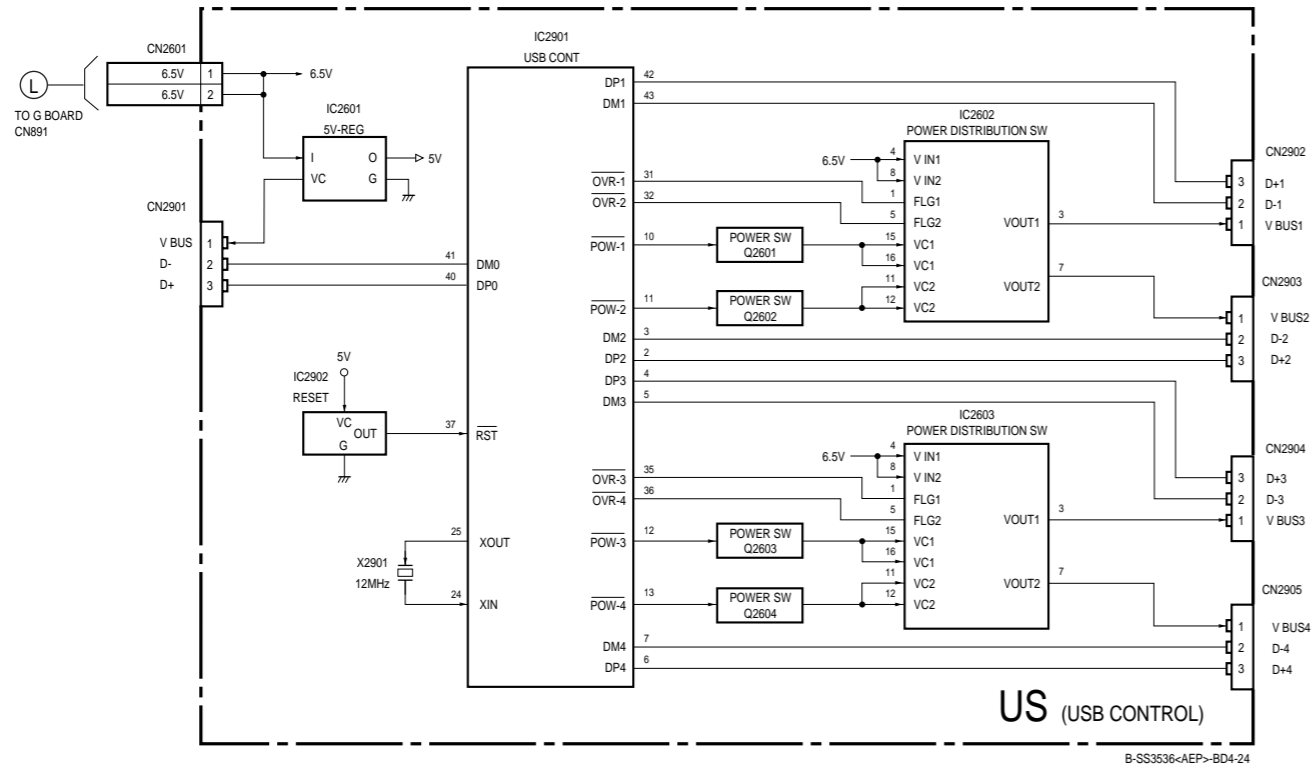
5-1. BLOCK DIAGRAMS

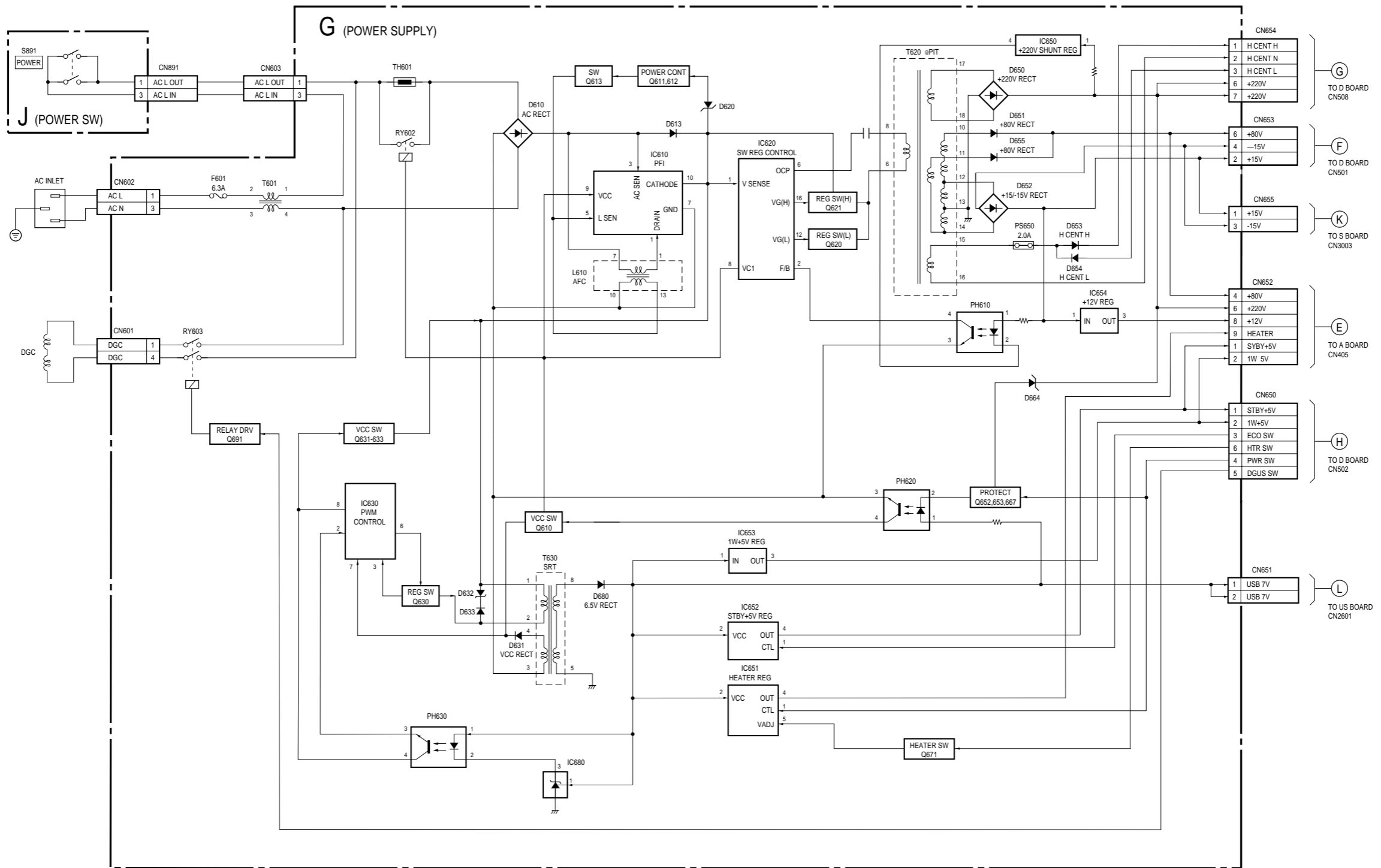


B-SS3536-AEP> -BD1-24



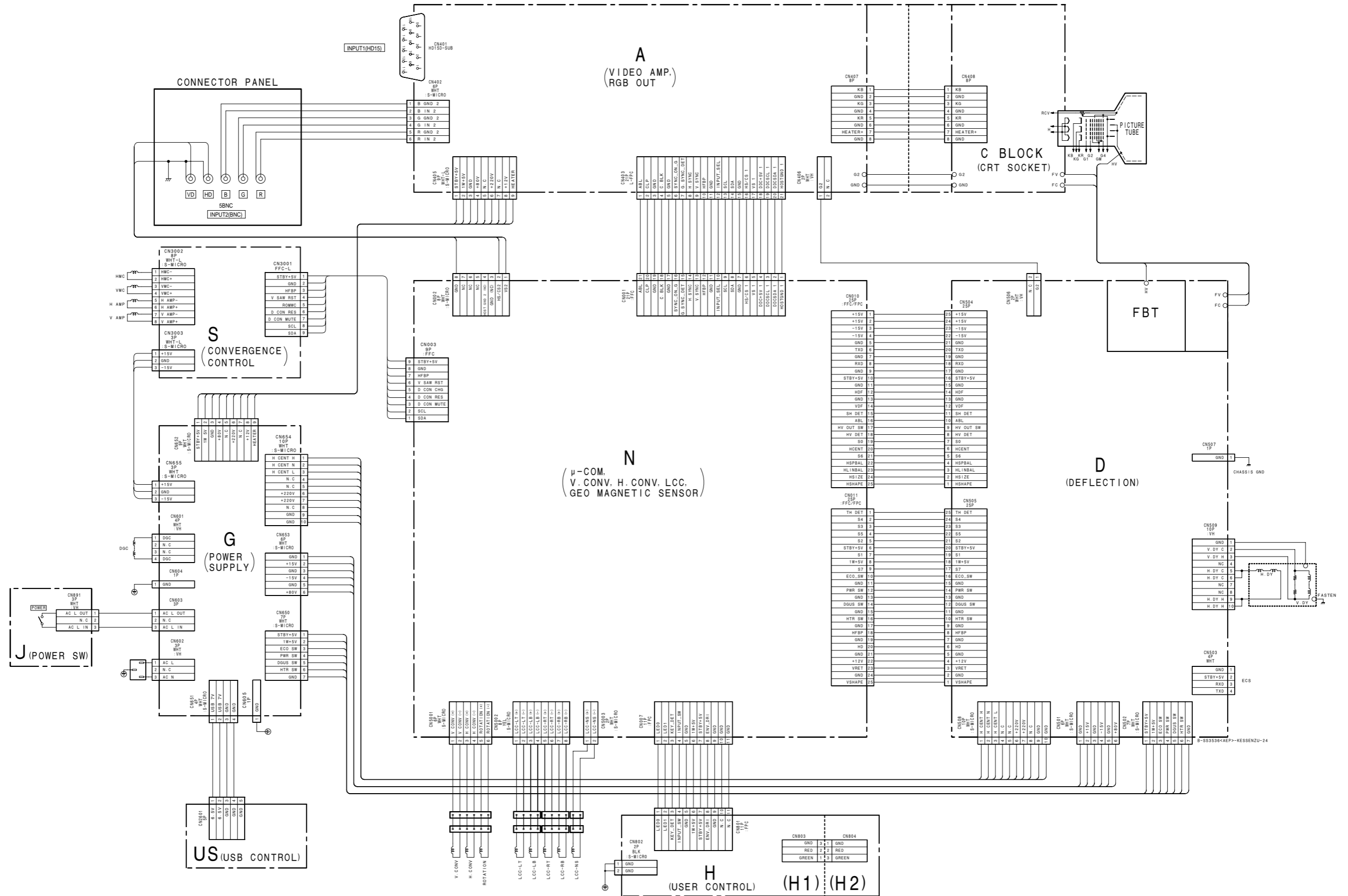
B-SS3536-AEP-BD2-24



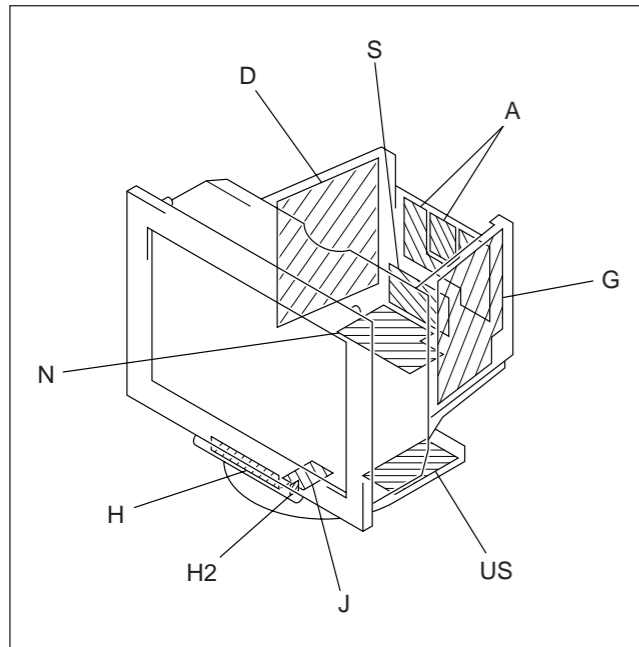


B-SS3536<AEP>-BD3-24

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.

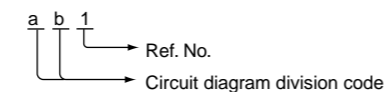
Note: The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

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



	Part Replaced ()
HV ADJ	RV901

	Part Replaced ()
HV Regulator Circuit Check	D Board IC901, R923, R924, R929, R943, T902(FBT) • Mounted D Board
HV Protector Circuit Check	D Board C922, C926, D912, D915, D921, Q907, Q908, R921, R922, R932, R937, R939, T902(FBT) • Mounted D Board
Beam Current Protector Circuit Check	D Board C921, C933, D901, D913, R920, R928, R930, R931, T902(FBT) • Mounted D Board N Board IC001, R031, R032 • Mounted N Board

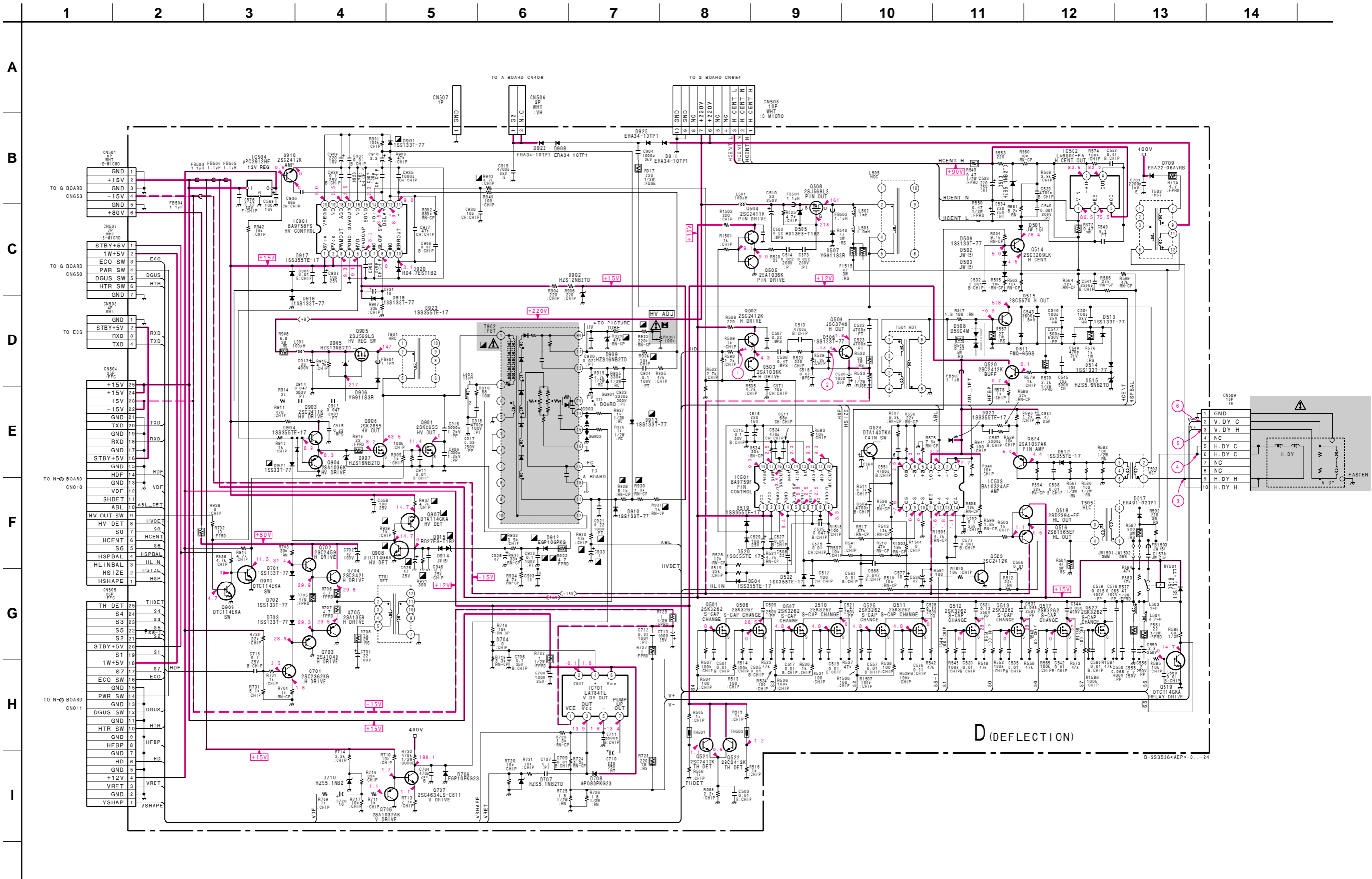
Terminal name of semiconductors in silk screen printed circuit (*)

	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 Cathode 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 semiconductot			

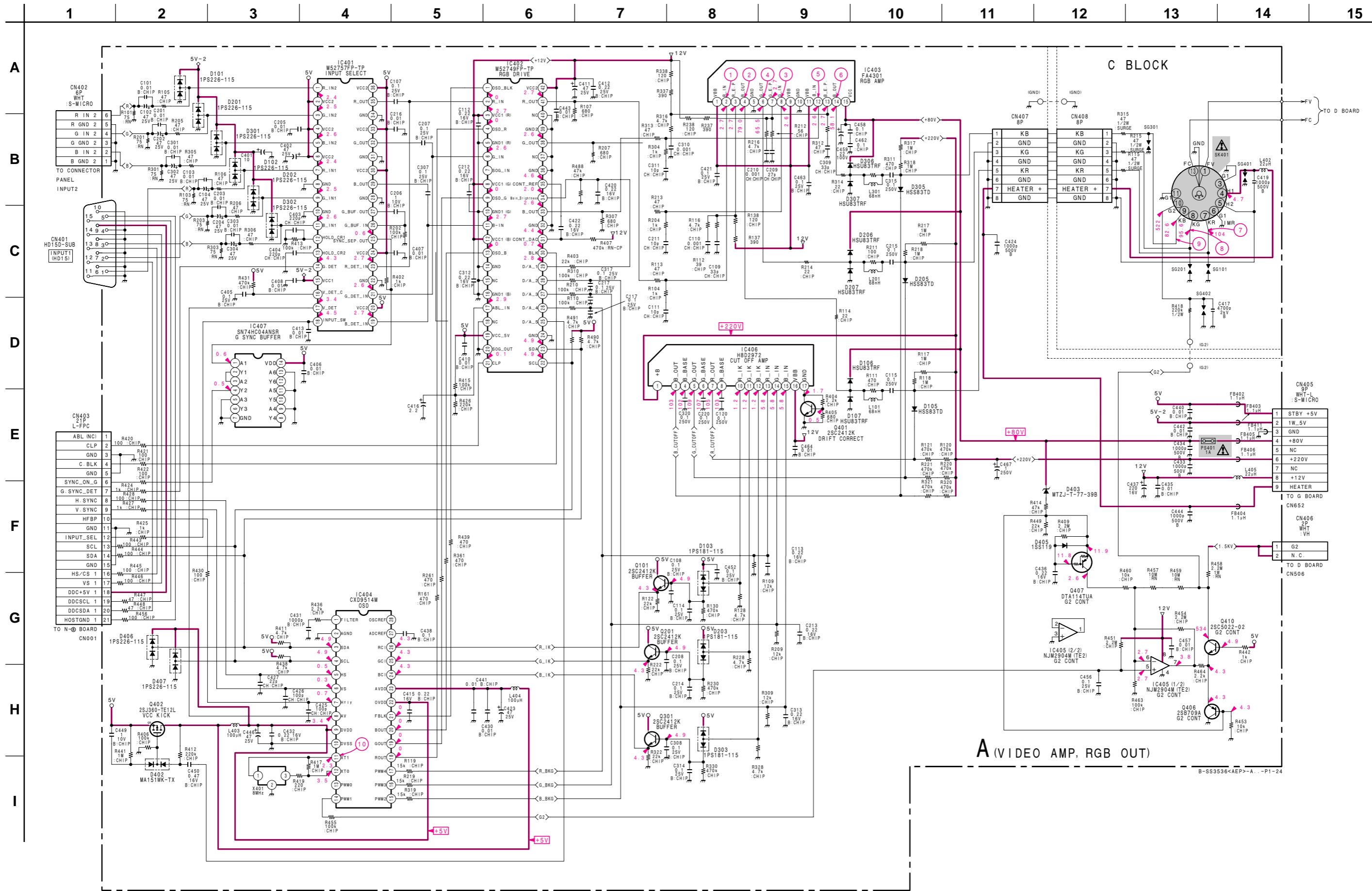
(Chip semiconductors that are not actually used are included.)

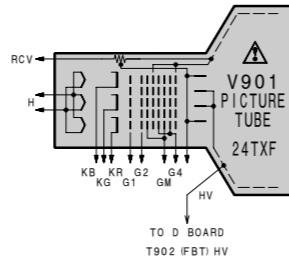
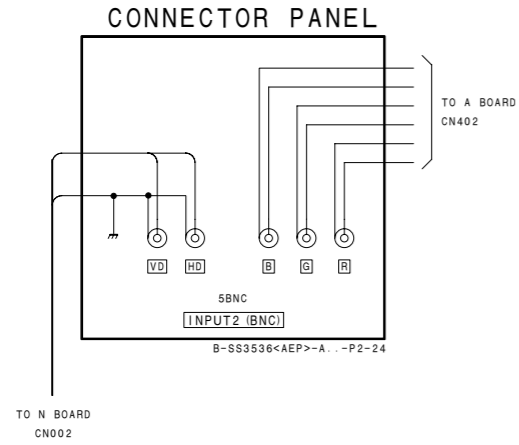
Ver.1.6

(1) Schematic Diagram of D Board

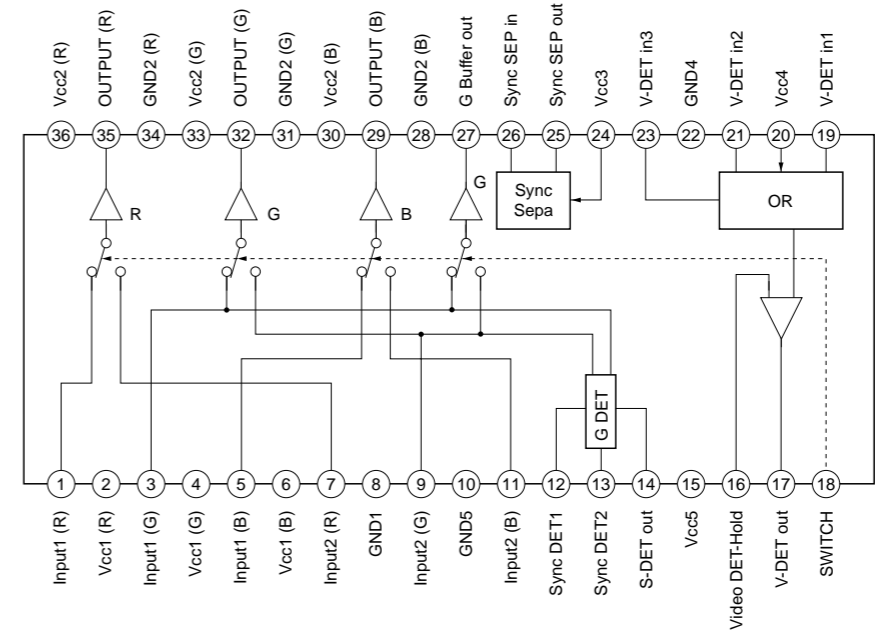


(2) Schematic Diagram of A Board



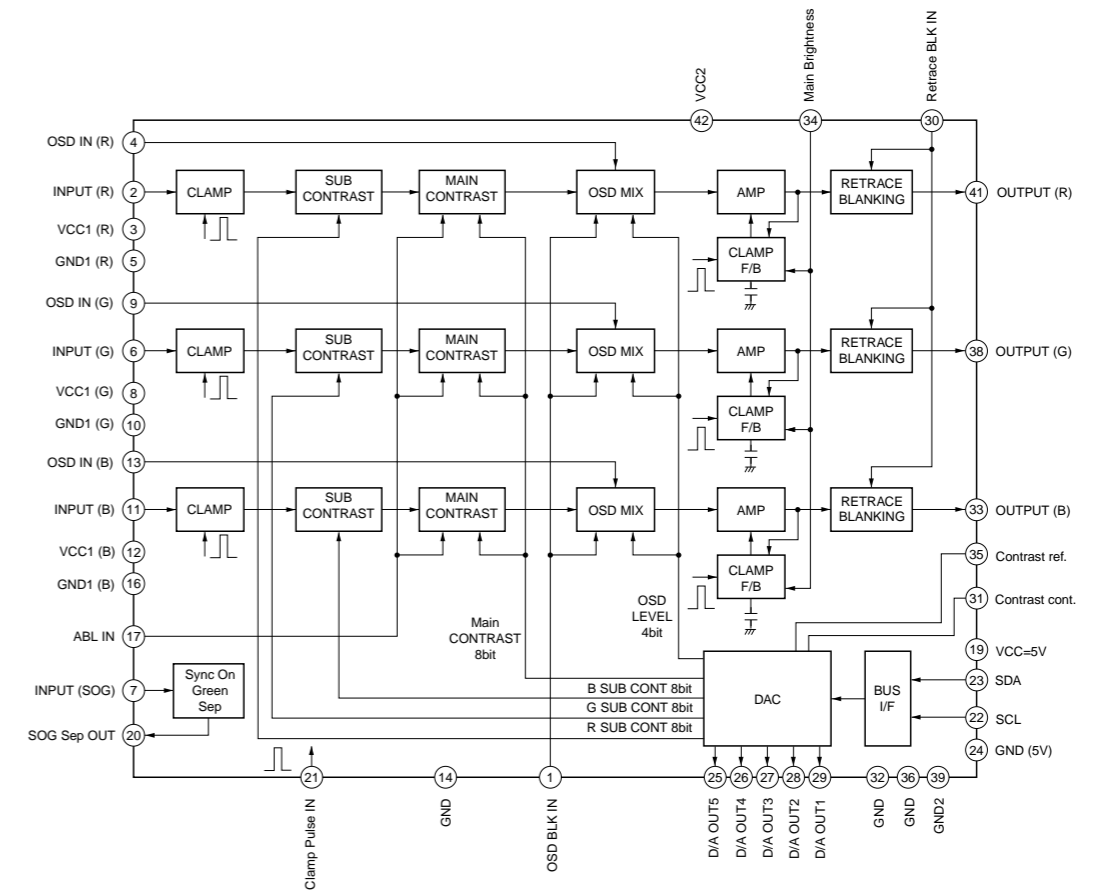
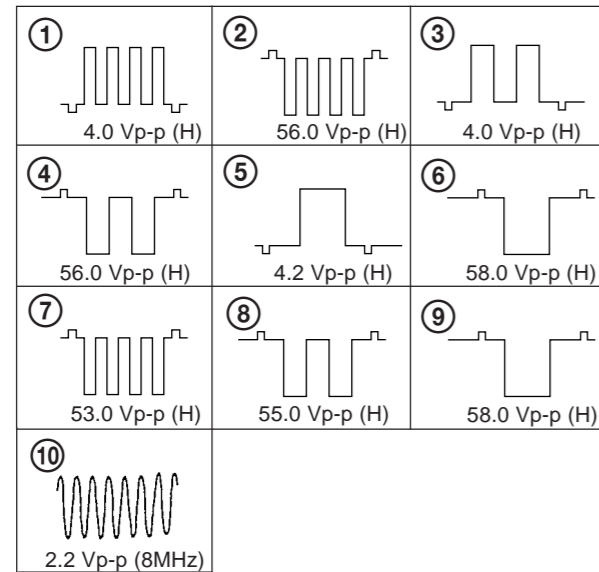


• A BOARD IC401 M52757FP

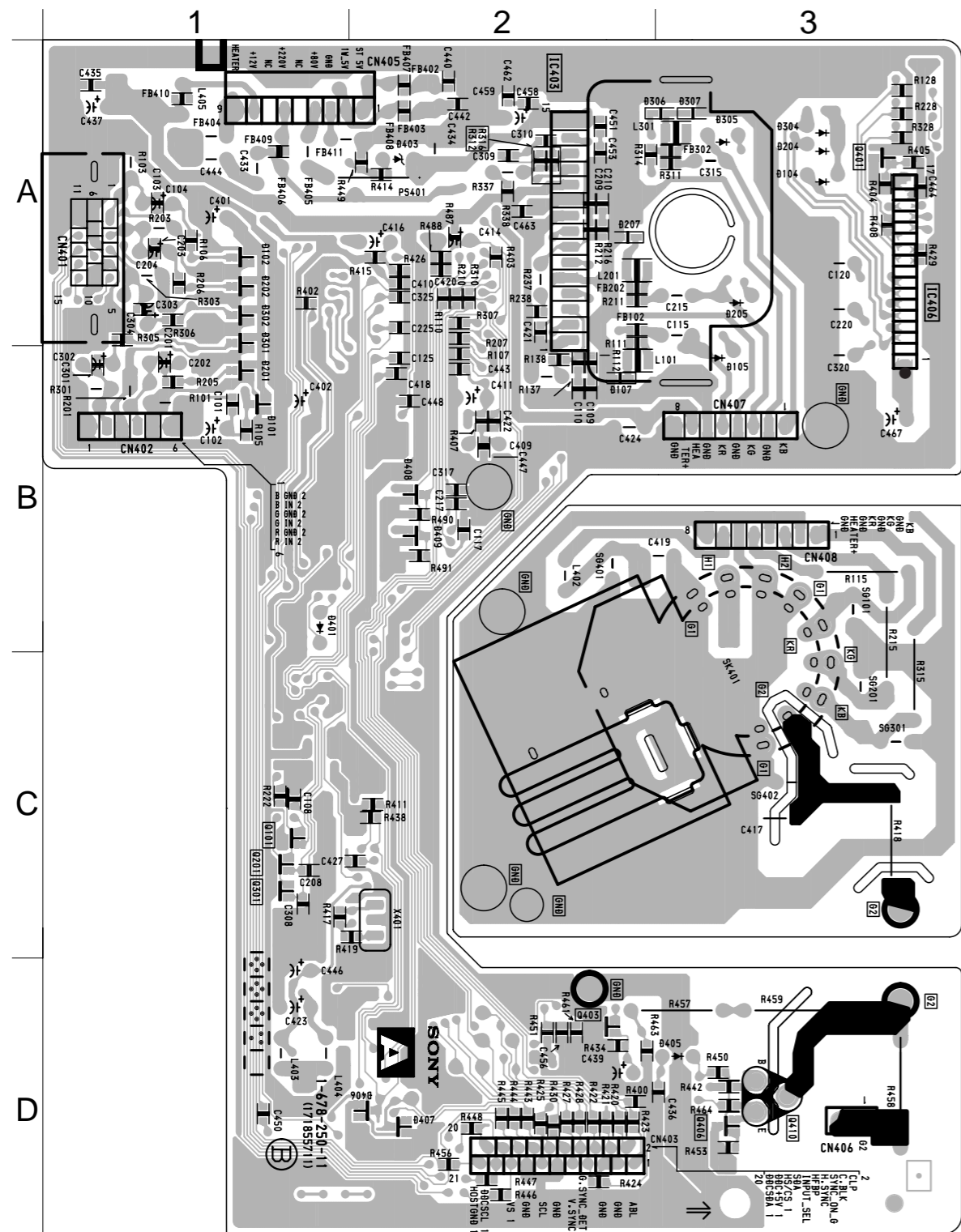


• A BOARD IC402 M52749FP

• A BOARD WAVEFORMS



— A BOARD (Conductor Side) —



• A BOARD SEMICONDUCTOR LOCATION

IC		(Conductor Side)	(Component Side)
IC401		B-3	B-3
IC402		B-2	B-2
IC403		A-2	A-2
IC404		C-3	C-3
IC405		D-2	D-2
IC406		A-1	A-1
IC407		D-2	D-2

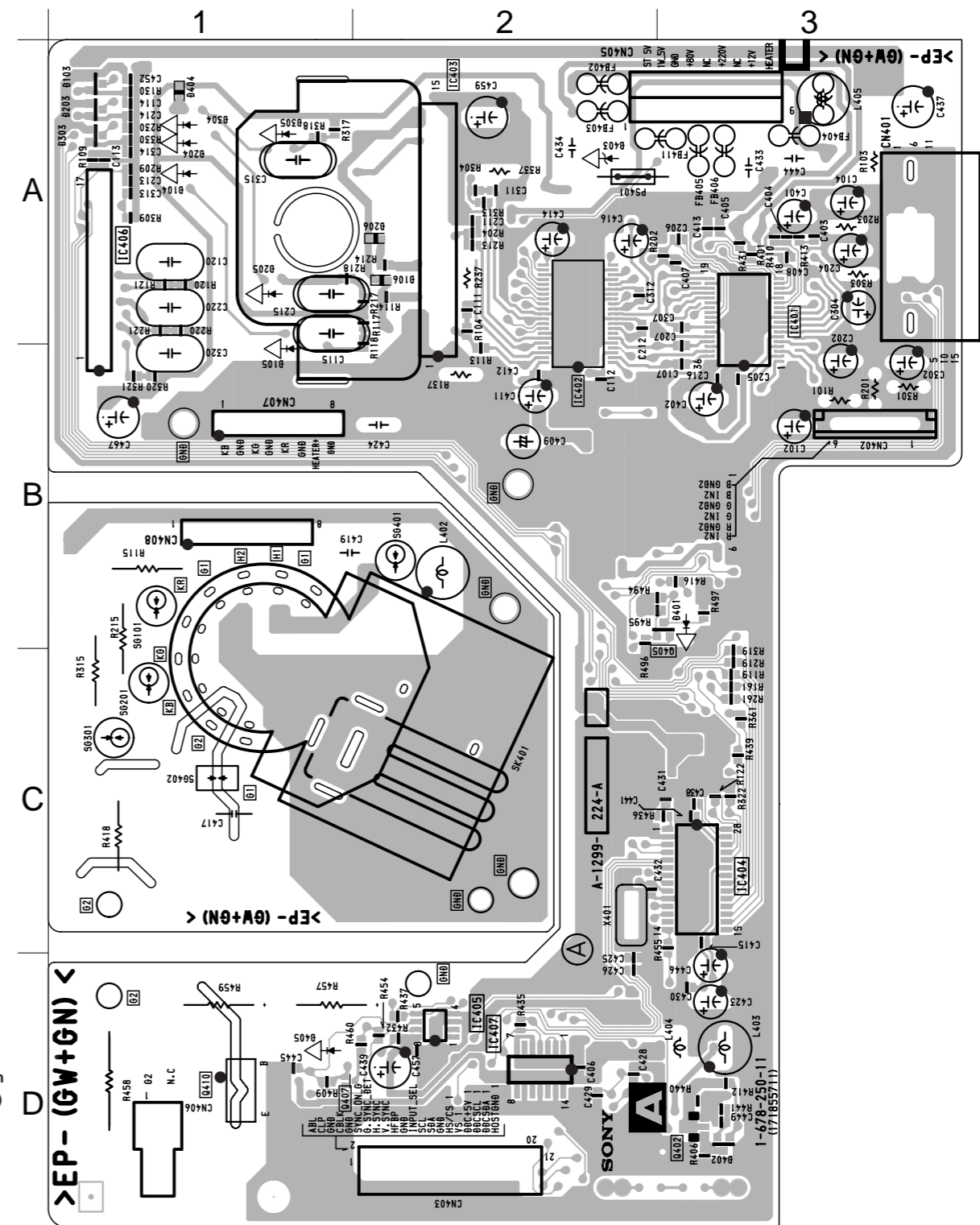
TRANSISTOR		(Conductor Side)	(Component Side)	*
Q101		C-1		①
Q201		C-1		②
Q301		C-1		③
Q401		A-3		④
Q402			D-3	⑤
Q406		D-3		⑥
Q407		D-2		⑦
Q410		D-3	D-1	⑧

DIODE		(Conductor Side)	(Component Side)	*
D101		B-1		①
D102		A-1		②
D103			A-1	③
D105		B-3	B-1	④
D106			A-2	⑤
D107		B-2		⑥
D201		B-1		⑦
D202		A-1		⑧
D203			A-1	⑨
D205		A-3	A-1	⑩
D206		A-2	A-2	⑪
D207		A-2		⑫
D301		B-1		⑬
D302		A-1		⑭
D303			A-1	⑮
D305		A-3	A-1	⑯
D306		A-3		⑰
D307		A-3		⑱
D402			D-3	⑲
D403		A-2	A-2	⑳
D405		D-3	D-1	㉑
D406		D-2		㉒
D407		D-2		㉓

CRYSTAL		(Conductor Side)	(Component Side)
X401		C-2	C-2

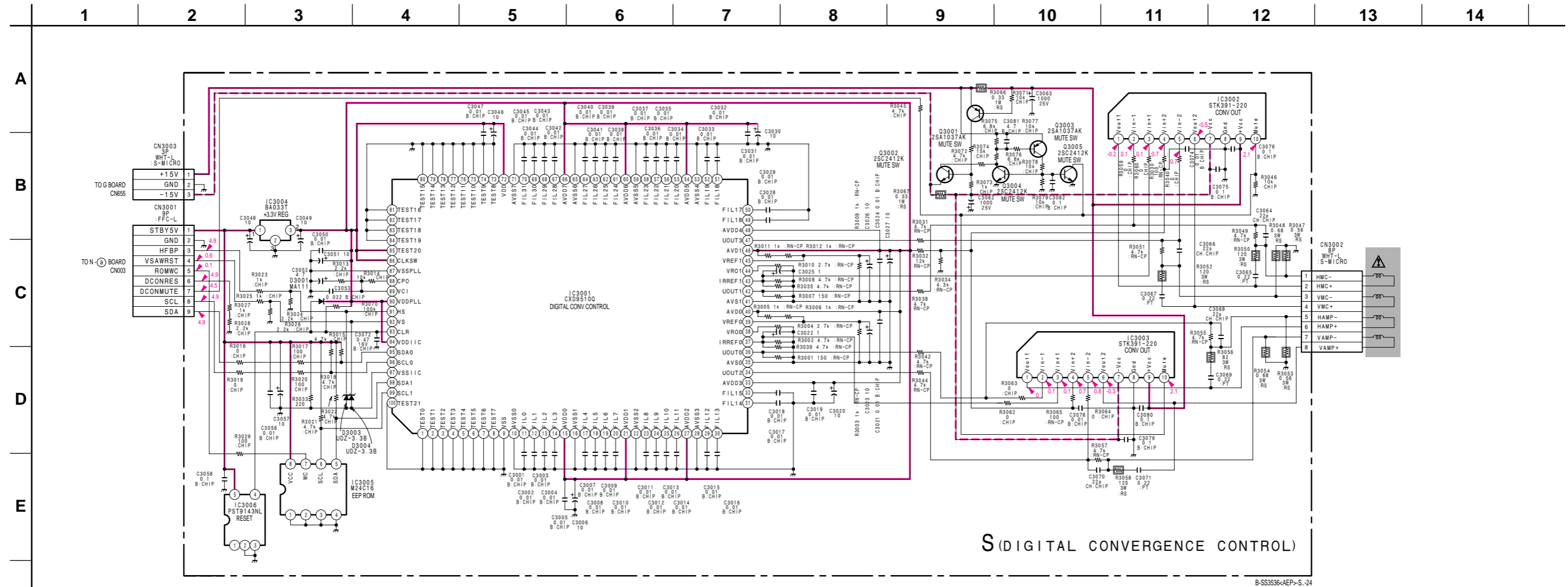
*: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 5-12)

— A BOARD (Component Side) —



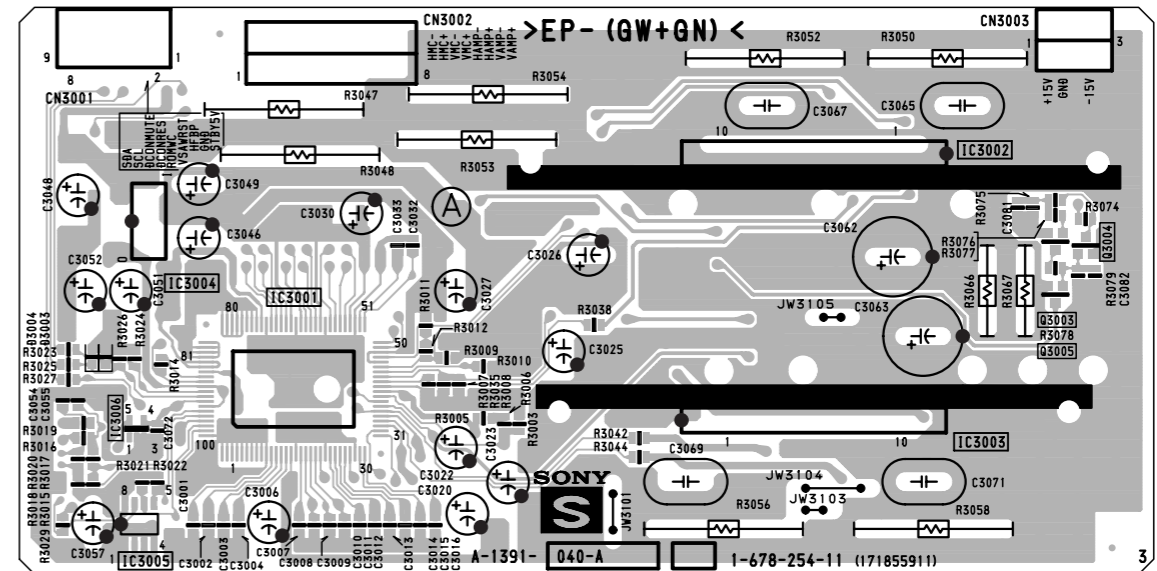
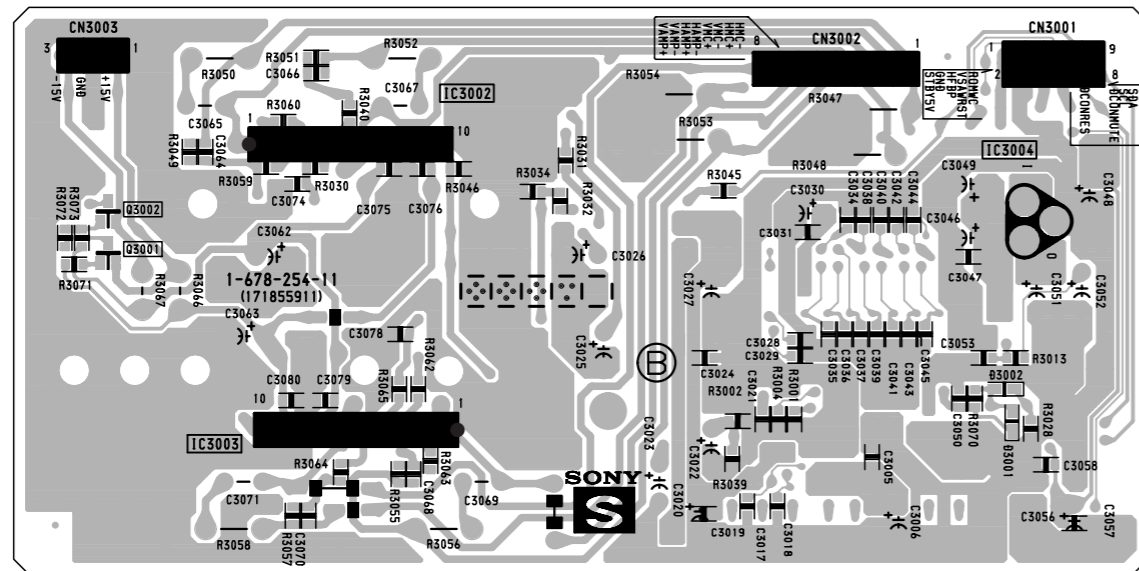
NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

(3) Schematic Diagram of S Board



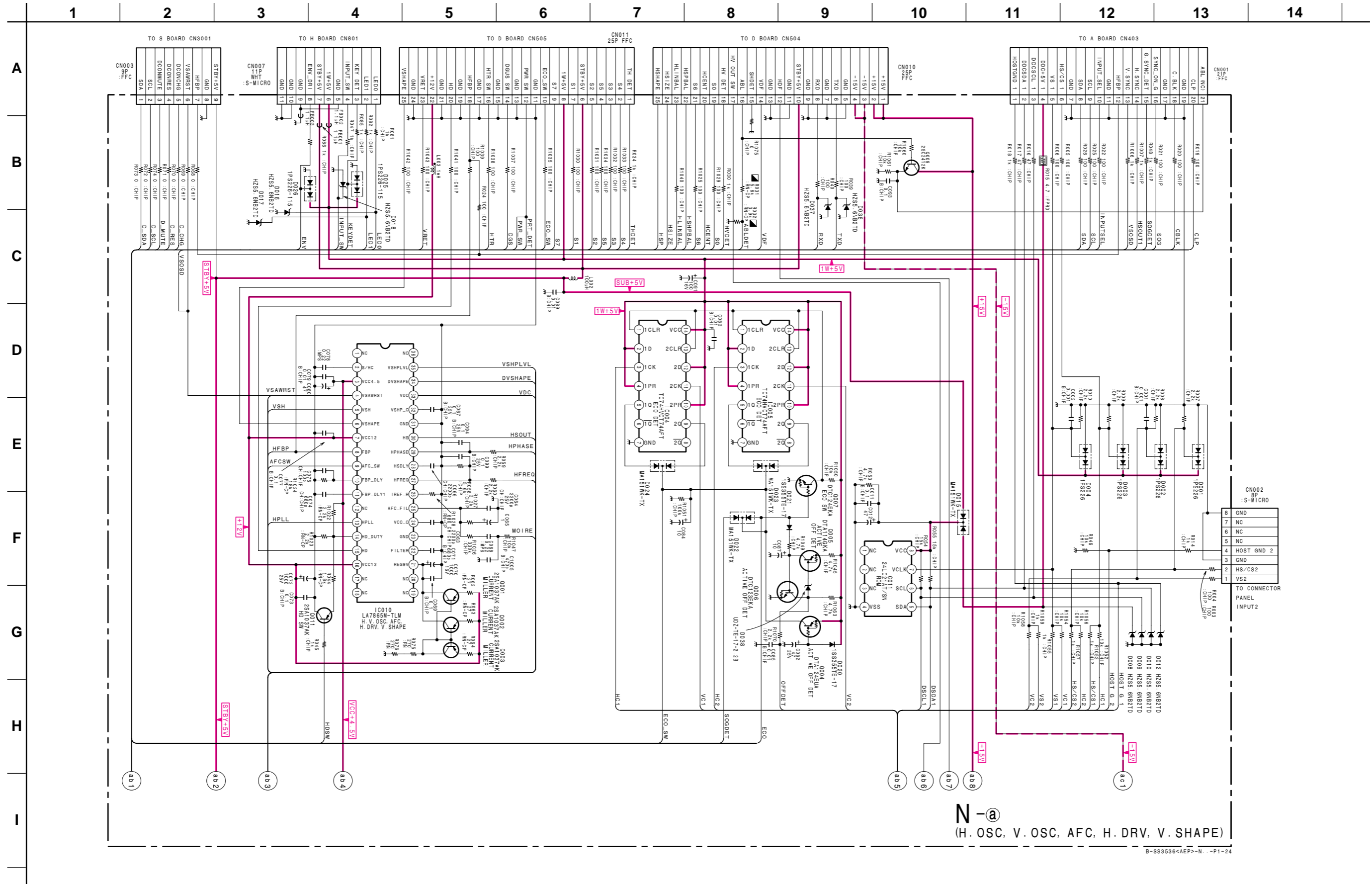
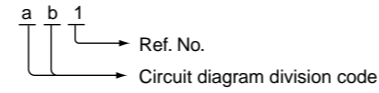
— S BOARD (Conductor Side) —

— S BOARD (Component Side) —

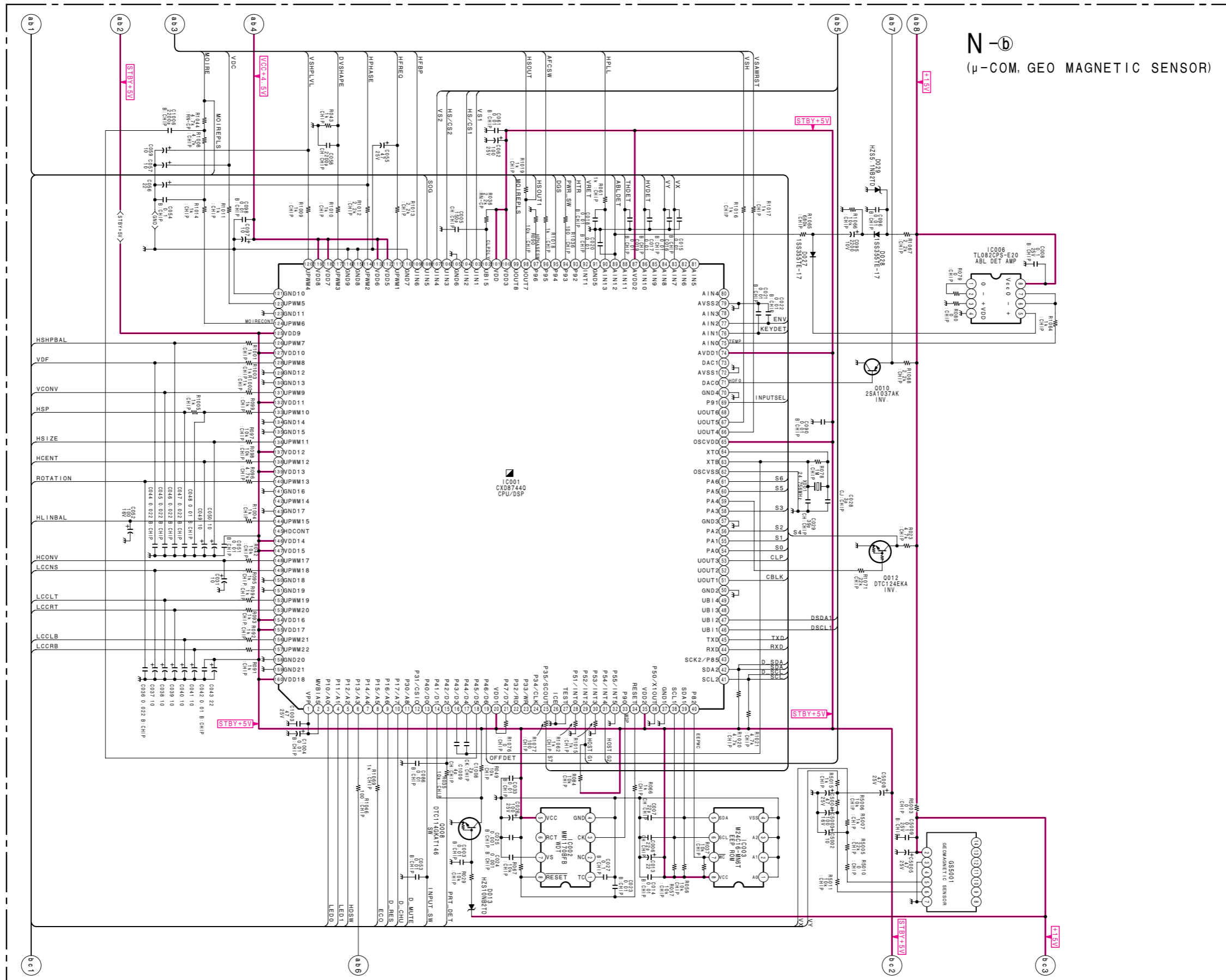


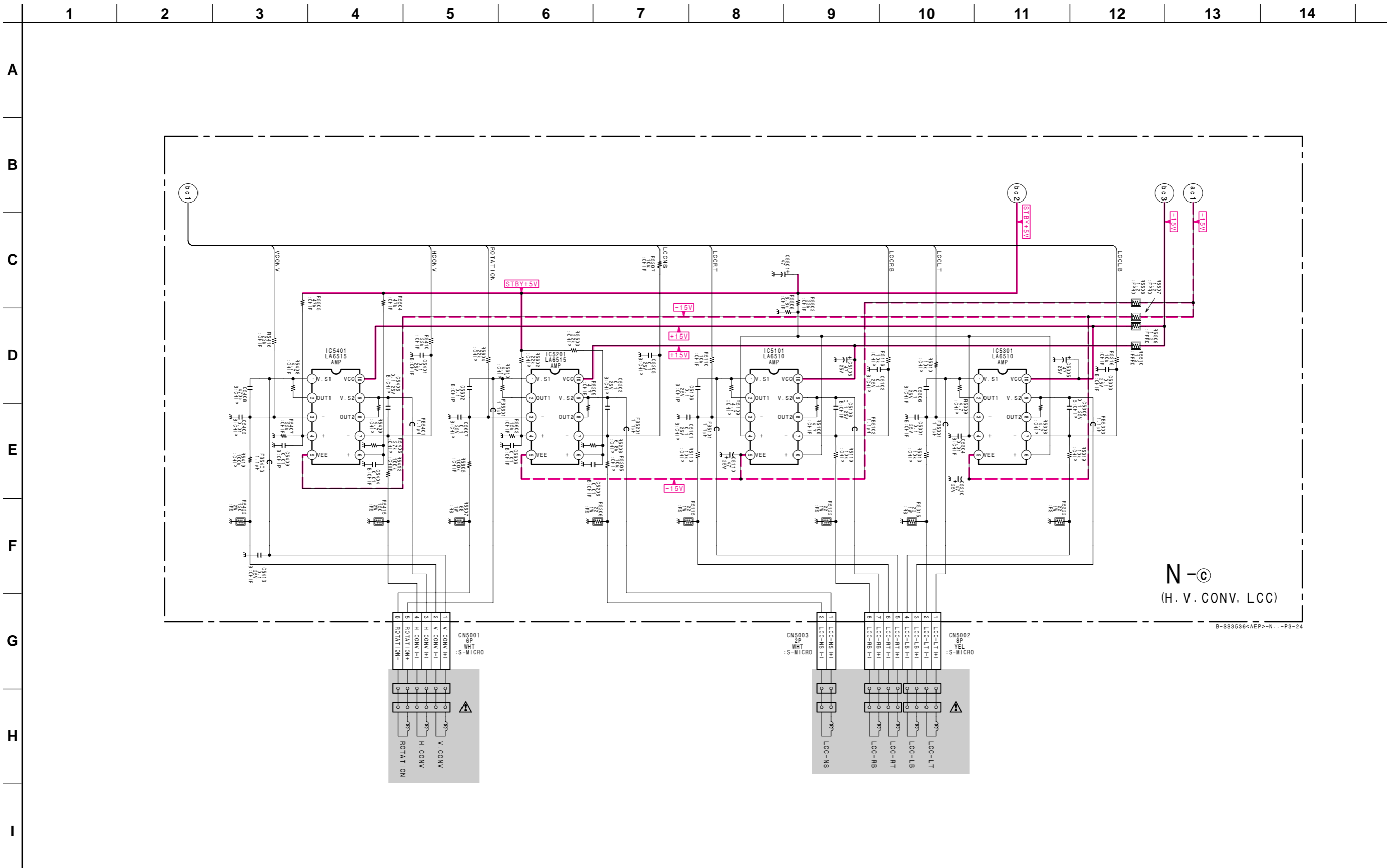
(4) Schematic Diagrams of N (a), (b), (c) Board

• Divided circuit diagram
 One sheet of N board circuit diagram is divided into three sheets, each having the code N-(a) to N-(c). For example, the destination (ab1) on the code N-(a) sheet is connected to (ab1) on the N-(b) sheet.



N-(a)
 (H. OSC, V. OSC, AFC, H. DRV, V. SHAPE)

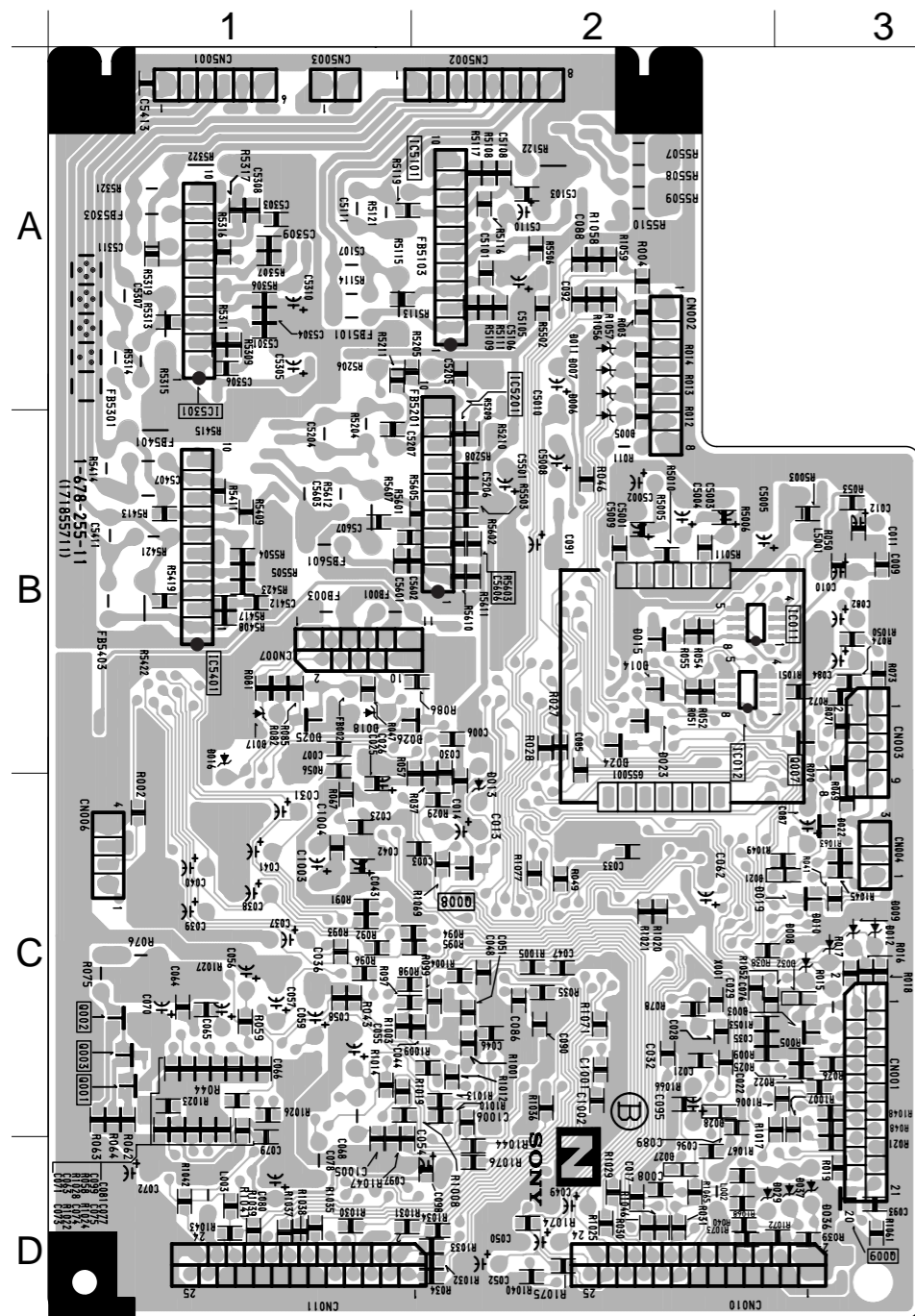




N-Ⓢ
(H.V. CONV, LCC)

B-S83536<AEP>-N...-P3-24

— N BOARD (Conductor Side) —

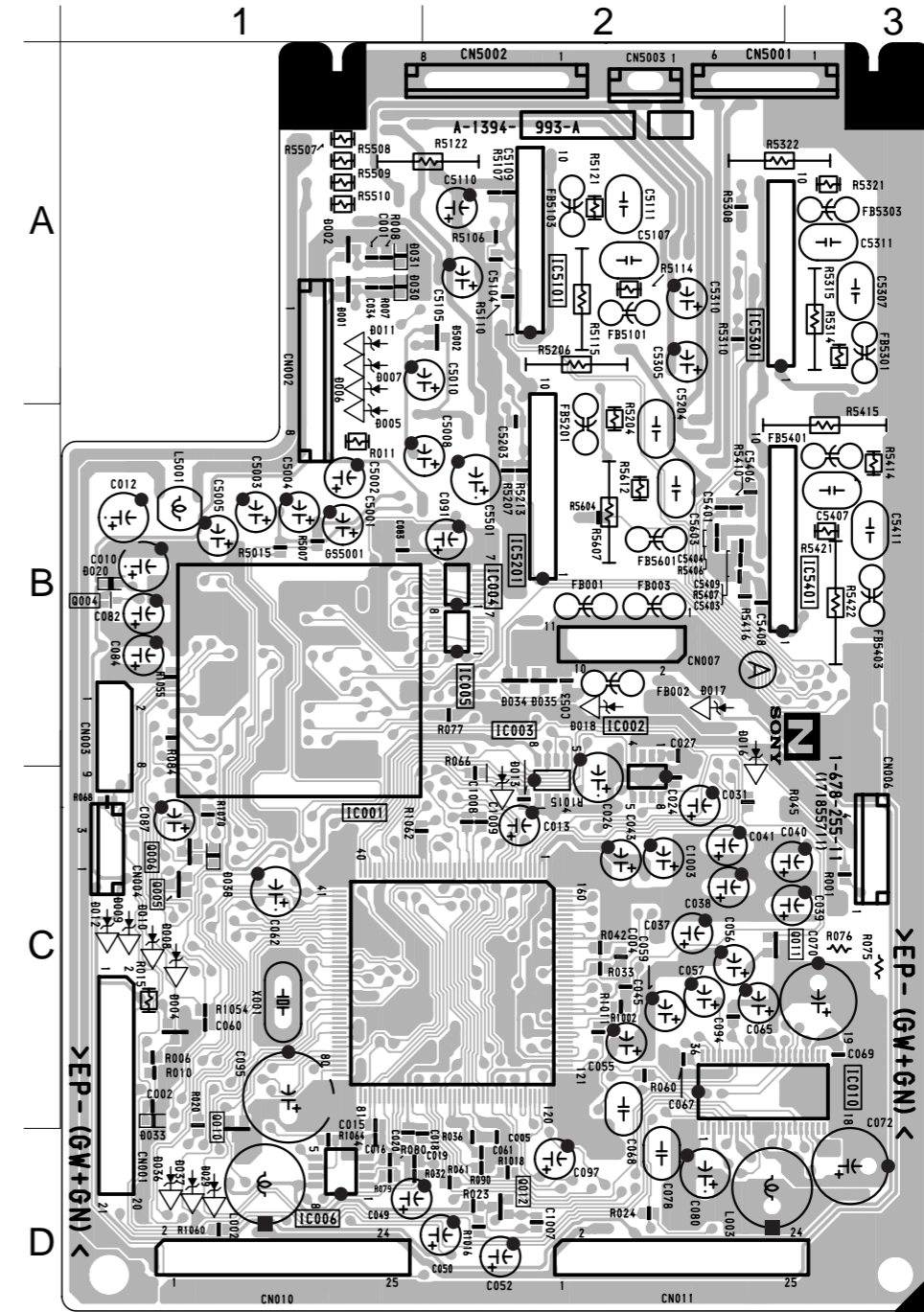


• N BOARD SEMICONDUCTOR LOCATION

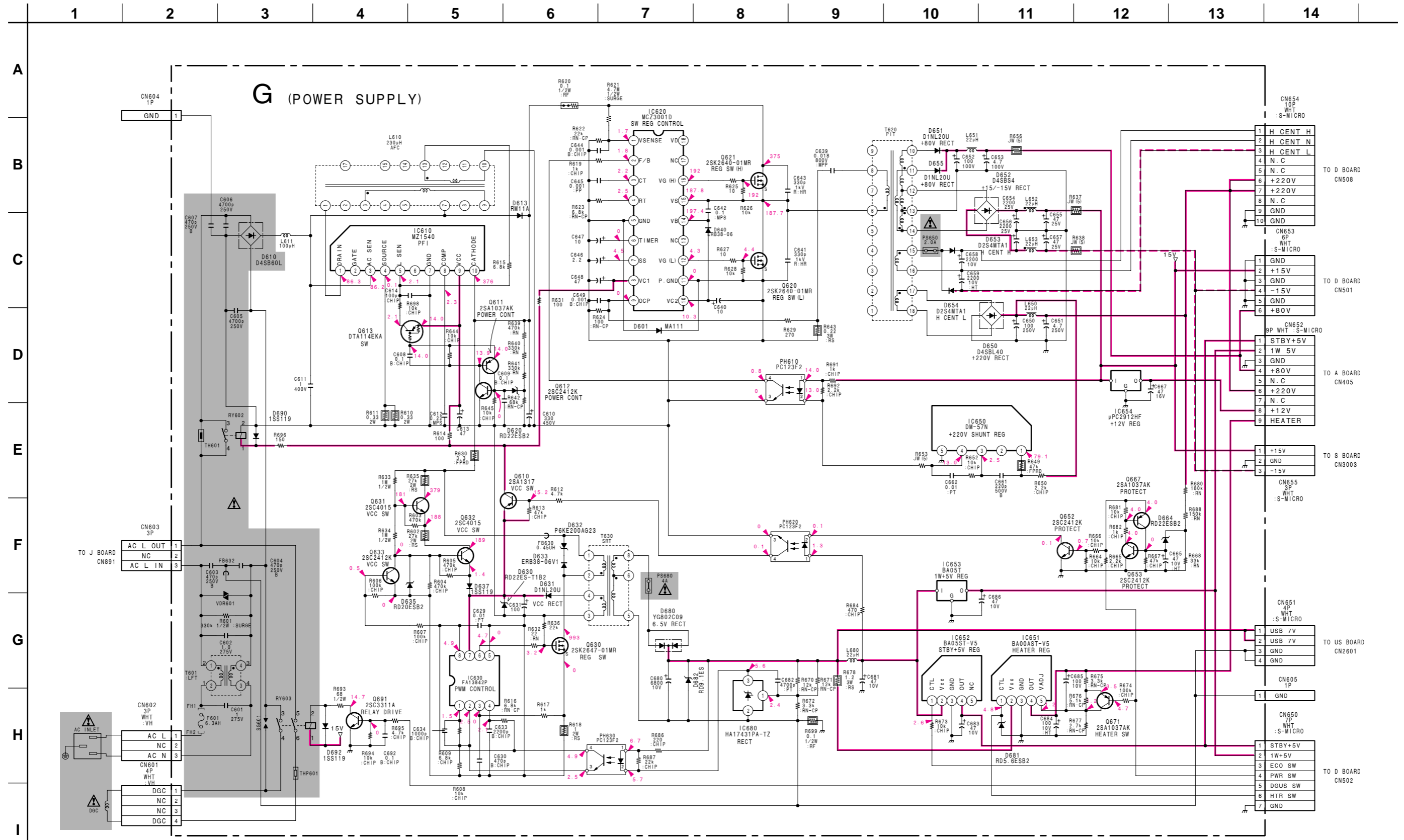
IC	
(Conductor Side)	(Component Side)
IC001	C-2
IC002	C-2
IC003	C-2
IC004	B-2
IC005	B-2
IC006	D-1
IC010	C-2
IC011	B-2
IC5101	A-2
IC5201	B-2
IC5301	A-2
IC5401	B-1
TRANSISTOR	
(Conductor Side)	(Component Side)
Q001	C-1
Q002	C-1
Q003	C-1
Q004	B-1
Q005	C-1
Q006	C-1
Q007	B-3
Q008	C-2
Q010	C-1
Q011	C-2
Q012	D-2
DIODE	
(Conductor Side)	(Component Side)
D001	A-1
D002	A-1
D003	C-3
D004	C-1
D008	C-3
D009	C-3
D010	C-3
D012	C-3
D013	C-2
D015	B-2
D016	B-1
D017	B-1
D018	B-1
D020	B-1
D021	C-3
D022	C-3
D023	B-2
D024	B-2
D025	B-1
D026	B-2
D027	D-2
D028	D-2
D029	D-3
D036	D-3
D037	D-1
D038	C-1
CRYSTAL	
(Conductor Side)	(Component Side)
X001	C-2
X001	C-1

*: Refer to Terminal name of semiconductor in silk screen printed circuit (see page 5-12)

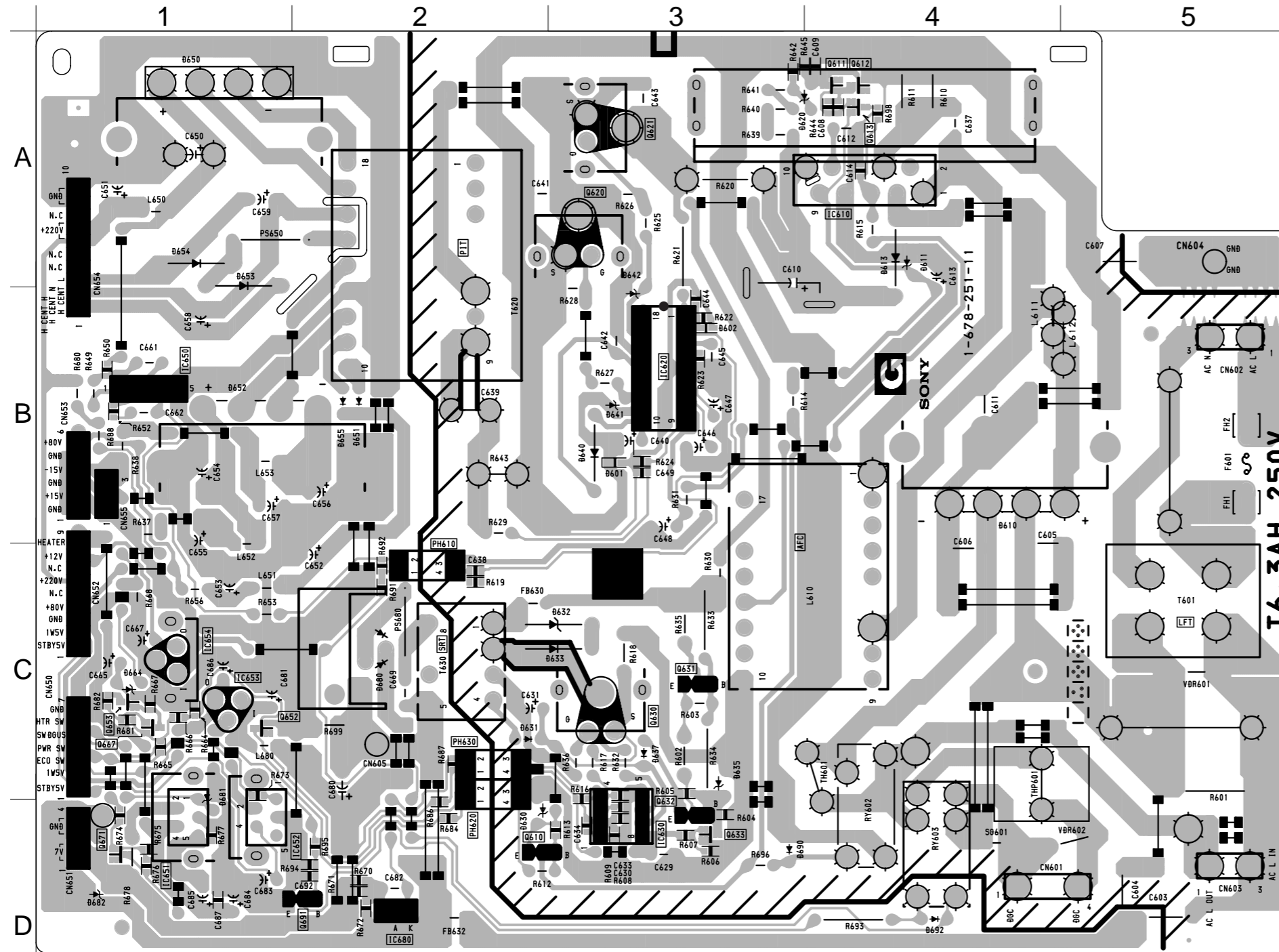
— N BOARD (Component Side) —



(5) Schematic Diagram of G Board




— G BOARD —



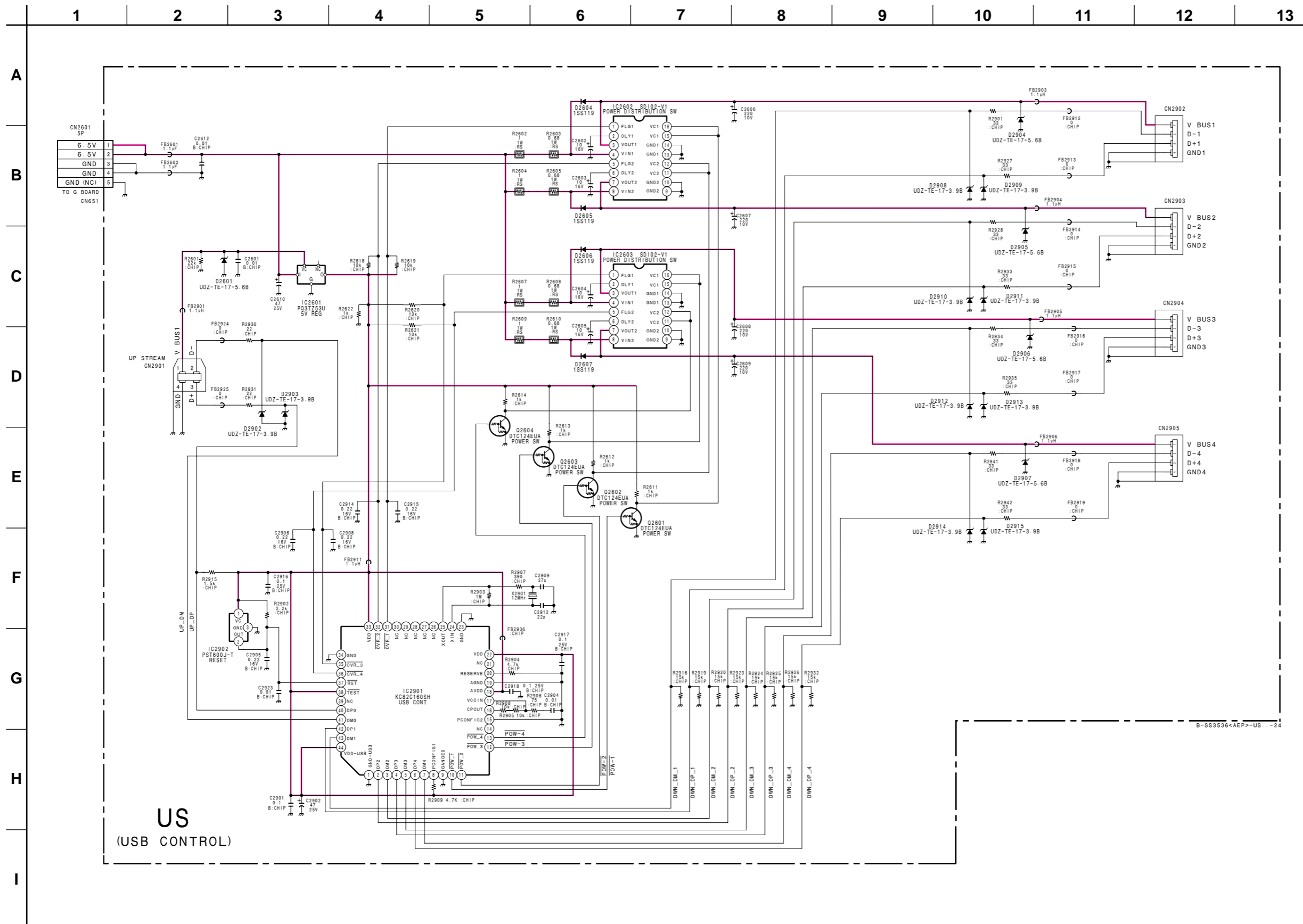
• G BOARD SEMICONDUCTOR LOCATION

IC		
IC610	A-4	-
IC620	B-3	-
IC630	D-3	-
IC650	B-1	-
IC651	D-1	-
IC652	D-1	-
IC653	C-1	-
IC654	C-1	-
IC680	D-2	-
TRANSISTOR		
Q610	D-2	*
Q611	A-4	⊖
Q612	A-4	⊖
Q613	A-4	⊖
Q620	A-3	-
Q621	A-3	-
Q630	C-3	-
Q631	C-3	-
Q632	D-3	-
Q633	D-3	⊖
Q652	C-1	⊖
Q653	C-1	⊖
Q667	C-1	⊖
Q671	D-1	⊖
Q691	D-2	-
DIODE		
D601	B-3	⊗
D610	B-4	-
D613	A-4	-
D620	A-4	-
D630	D-2	-
D631	C-2	-
D632	C-3	-
D633	C-3	-
D635	C-3	-
D637	C-3	-
D640	B-3	-
D650	A-1	-
D651	B-2	-
D652	B-1	-
D653	A-1	-
D654	A-1	-
D655	B-2	-
D664	C-1	-
D680	C-2	-
D681	C-1	-
D682	D-1	-
D690	D-3	-
D692	D-4	-

*: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 5-12)

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.

(6) Schematic Diagram of US Board

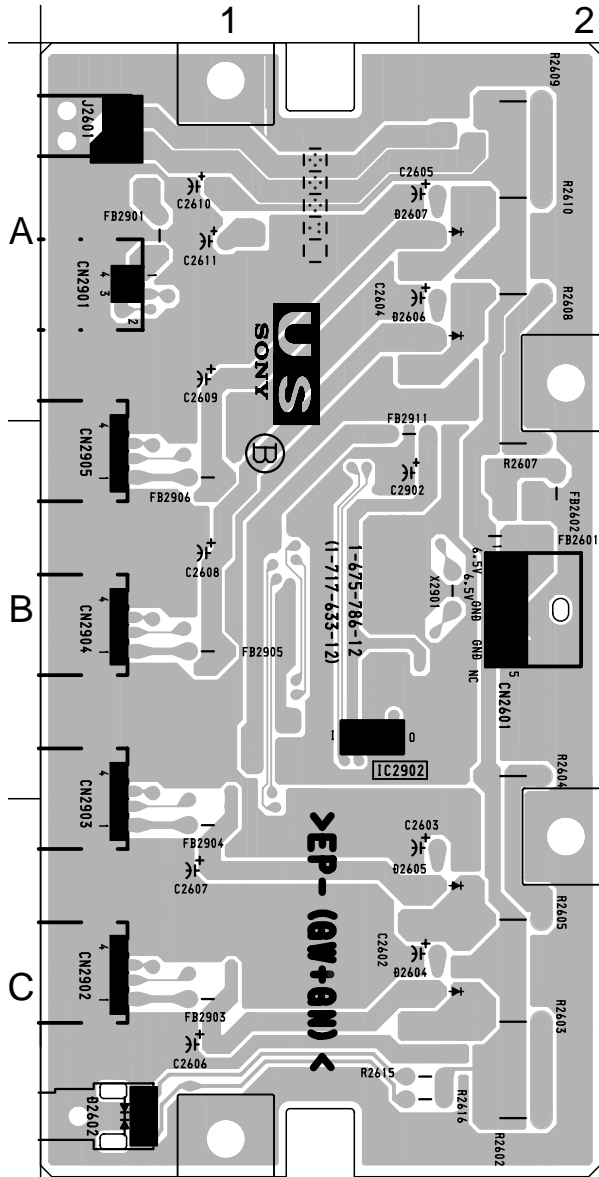


• US BOARD SEMICONDUCTOR LOCATION

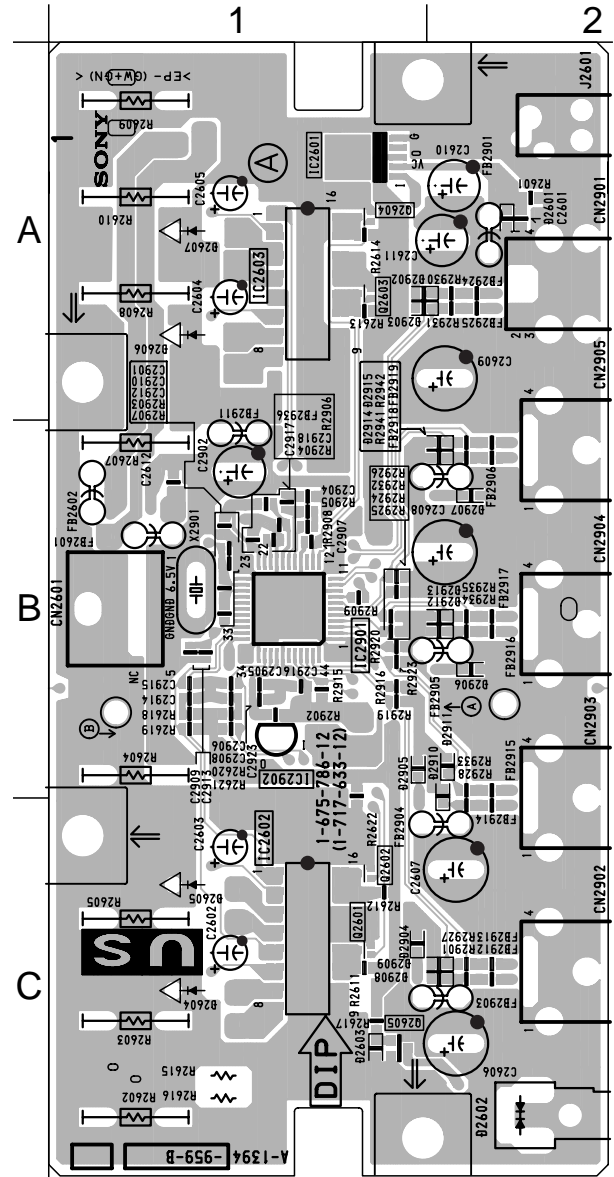
IC		
(Conductor Side)	(Component Side)	
IC2601	A-1	
IC2602	C-1	
IC2603	A-1	
IC2901	B-1	
IC2902	B-1	
TRANSISTOR		
(Conductor Side)	(Component Side)	
Q2601	C-1	②
Q2602	C-1	②
Q2603	A-1	②
Q2604	A-1	②
DIODE		
(Conductor Side)	(Component Side)	
D2601	A-2	③
D2604	C-2	C-1
D2605	C-2	C-1
D2606	A-2	A-1
D2607	A-2	A-1
D2902	A-1	③
D2903	A-1	③
D2904	C-1	③
D2905	B-1	③
D2906	B-2	③
D2907	B-2	③
D2908	C-2	③
D2909	C-2	③
D2910	B-2	③
D2911	B-2	③
D2912	B-2	③
D2913	B-2	③
D2914	B-2	③
D2915	B-2	③
CRYSTAL		
(Conductor Side)	(Component Side)	
X2901	B-2	B-1

*: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 5-12)

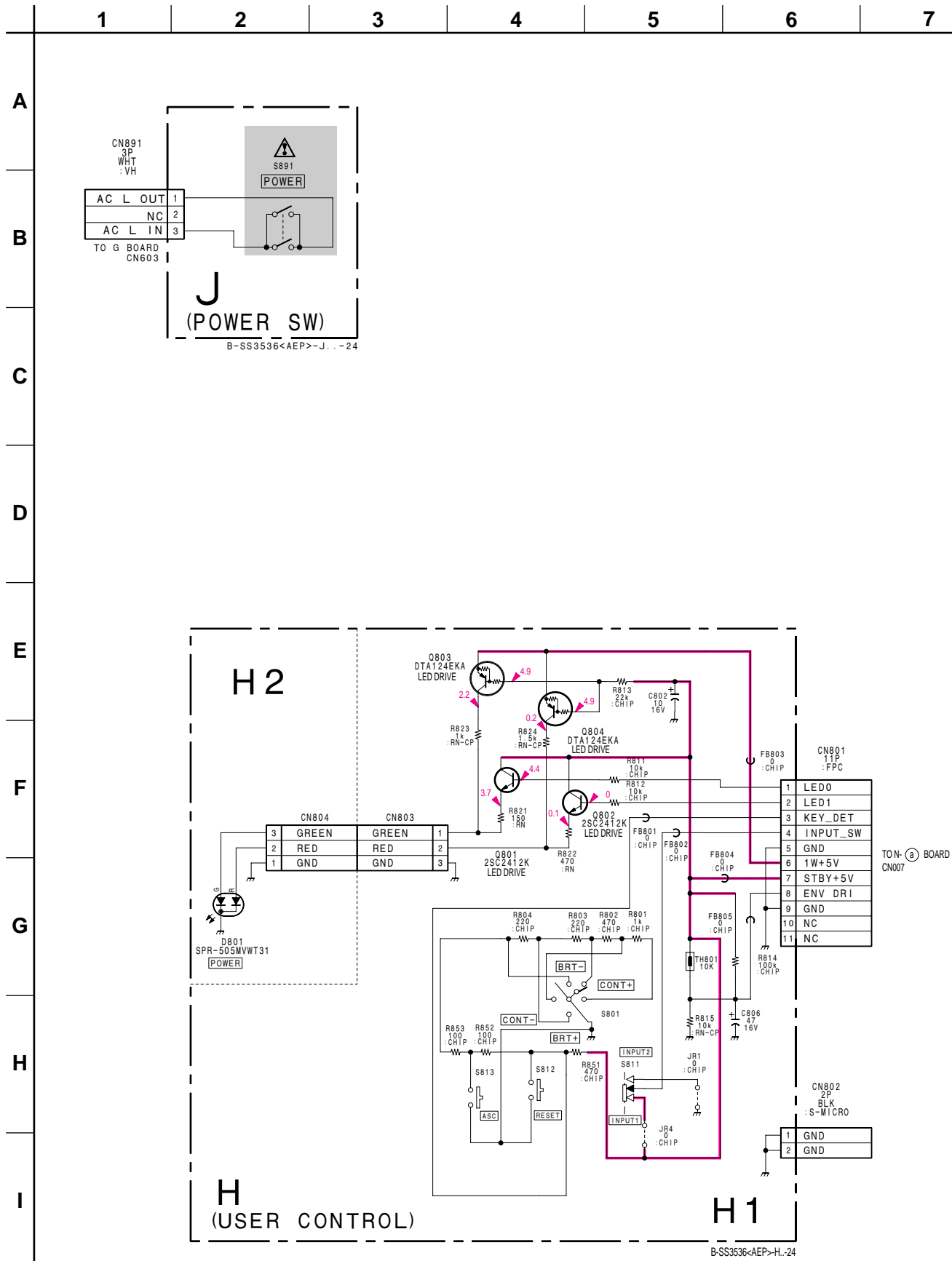
— US BOARD (Conductor Side) —



— US BOARD (Component Side) —



(7) Schematic Diagrams of H and J Boards



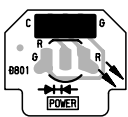
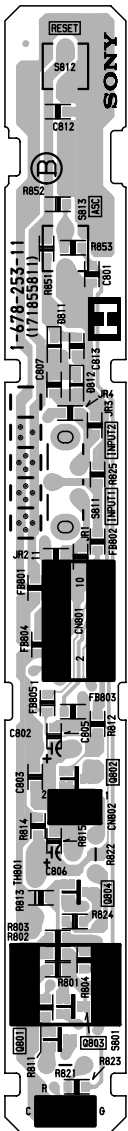


[USER CONTROL]

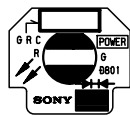
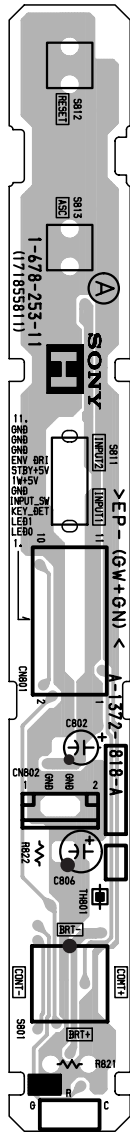


[POWER SW]

— H BOARD (Conductor Side) —



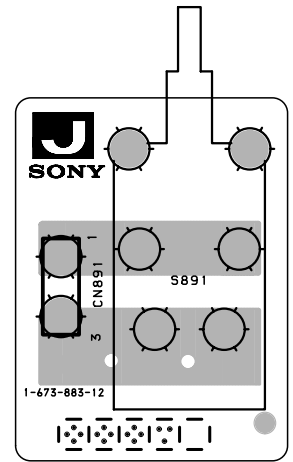
— H BOARD (Component Side) —



(H1)

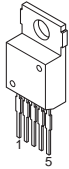
(H2)

— J BOARD —

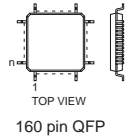


5-5. SEMICONDUCTORS

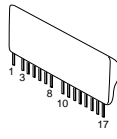
BA00AST-V5
BA05ST-V5
LA6500FA



CXD8744Q

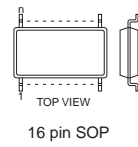


H8D2972

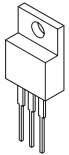


MM1170BFB
M24C16-MN6T
NJM082M
NJM2904M
NJM2904M(TE2)
ST24FC21M6TR
TL082CPS-E20
24LC21AT/SN

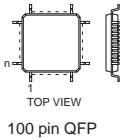
SD102-V1



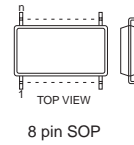
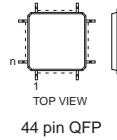
BA033T



CXD9510Q



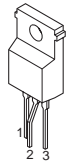
KC82C160SH



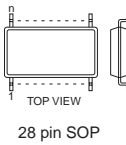
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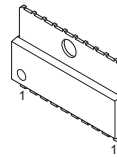
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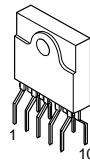
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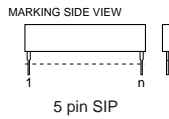


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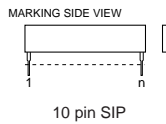


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DTA124EUA-T106
DTA143TKA-T146
DTC114EK
DTC114EKA-T146
DTC114GKA
DTC114GKAT146
DTC123EKA-T146
DTC124EK
DTC124EKA-T146
DTC124EUA-T106
DTC124EUA-T106
2SA1036K-Q
2SA1036K-T-146-Q
2SA1037AK-T146-QR
2SA1037AK-T146-R
2SA1162-G
2SB709A-QRS-TX
2SC1623-L5L6
2SC2411K-CQ
2SC2411K-T-146-CQ
2SC2412K-T-146-QR

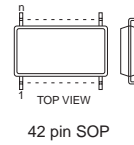
DM-57N



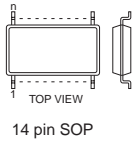
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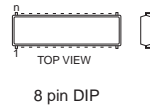
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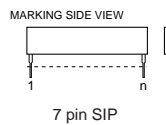
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TC74VHCT74AFT
XRA10324AF



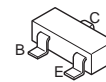
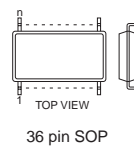
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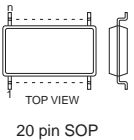
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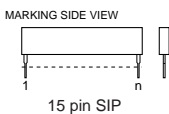
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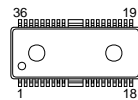
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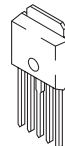
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LA7865M-TLM



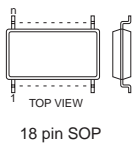
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2SA1049TP-GR
2SC2459-GR-TPE4



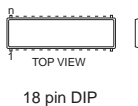
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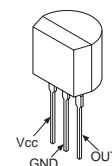
HA17431PA
HA17431PA-TZ



MCZ3001D
27C4002-CPU118V



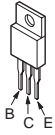
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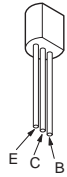
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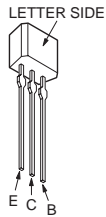
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2SC3746
2SC5022-02
2SD2394-EF



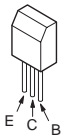
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2SC2362KG-AA



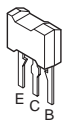
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2SC3311A-QRSTA



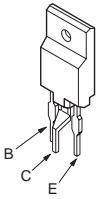
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2SC3209LK-TP



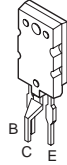
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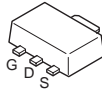
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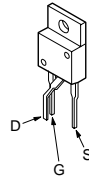
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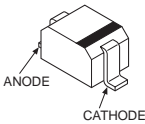
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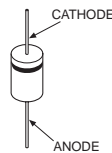
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2SK2640-010MR
2SK2655-01R-F165
2SK3262-01MR-F119



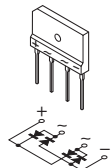
DTZ-TT11-3.3B
MA111
MA8039
RD2.2M-T1B
RD5.6S-B
UDZ-TE-17-2.2B
UDZ-TE-17-3.3B
UDZ-TE-17-3.9B
UDZ-TE-17-5.6B
1SS355TE-17



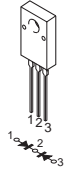
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D2S4MF
D2S4MTA1



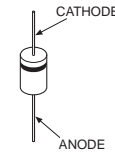
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D4SBS4
D4SBS4-F
D4SB60L



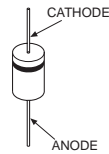
D5SC4M



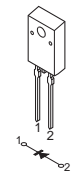
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ERA91-02TP1
1SS133T-77



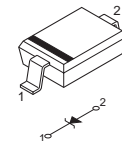
ERA22-06AVRBT
ERA22-08
ERA33-10TP1
ERB38-06V1
GP08D
GP08DPKG23
HSS83TD
RGP02-20EL-6394



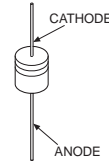
FMQ-G5GS



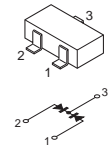
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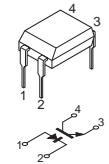
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HZS12NB2TD
HZS13NB2TD
HZS16NB2TD
HZS5.1NB2TD
HZS5.6NB2TD
HZS9.1NB2
MTZJ-T-77-39B
MTZJ-39B
RD10ESB2
RD12ES-B2
RD13ES-B2
RD13ES-T1B2
RD20ES-B2
RD20ES-T1B2
RD22ES-B2
RD22ES-T1B2
RD27ES-B2
RD27ES-T1B2
RD4.7ESB2
RD4.7ES-T1B2
RD5.1ES-B2
RD5.6ES-T1B2
RD5.6ESB2
RD9.1ES-T1B
1SS119-25
1SS119-25TD



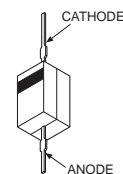
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1SS184



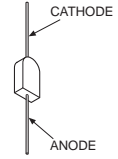
PC123F2
PC123FY2



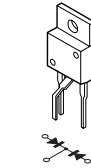
P6KE200AG23



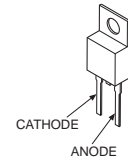
RM11A
RM11C



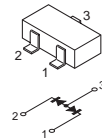
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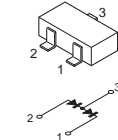
YG911S3R



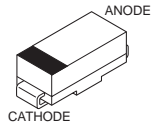
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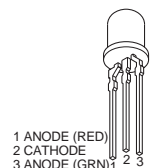
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1SS376TE-17



SPR-505MVWT31



SECTION 6 EXPLODED VIEWS

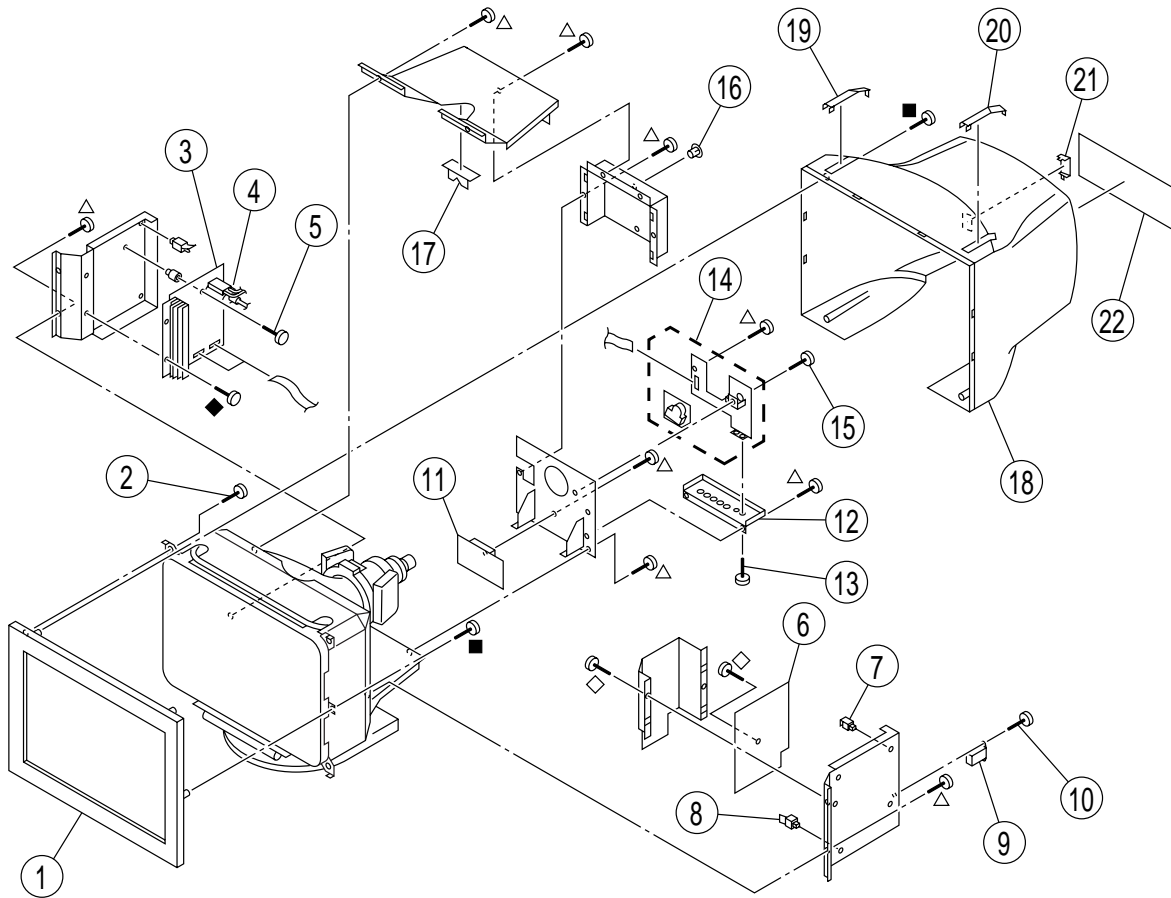
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine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

The components identified \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

- \triangle : 7-685-881-09 +BVTT 4x8
- \blacklozenge : 7-685-648-79 +BVTP 3x12
- \blacksquare : 7-685-663-71 +BVTP 4x16
- \diamond : 7-685-646-79 +BVTP 3x8



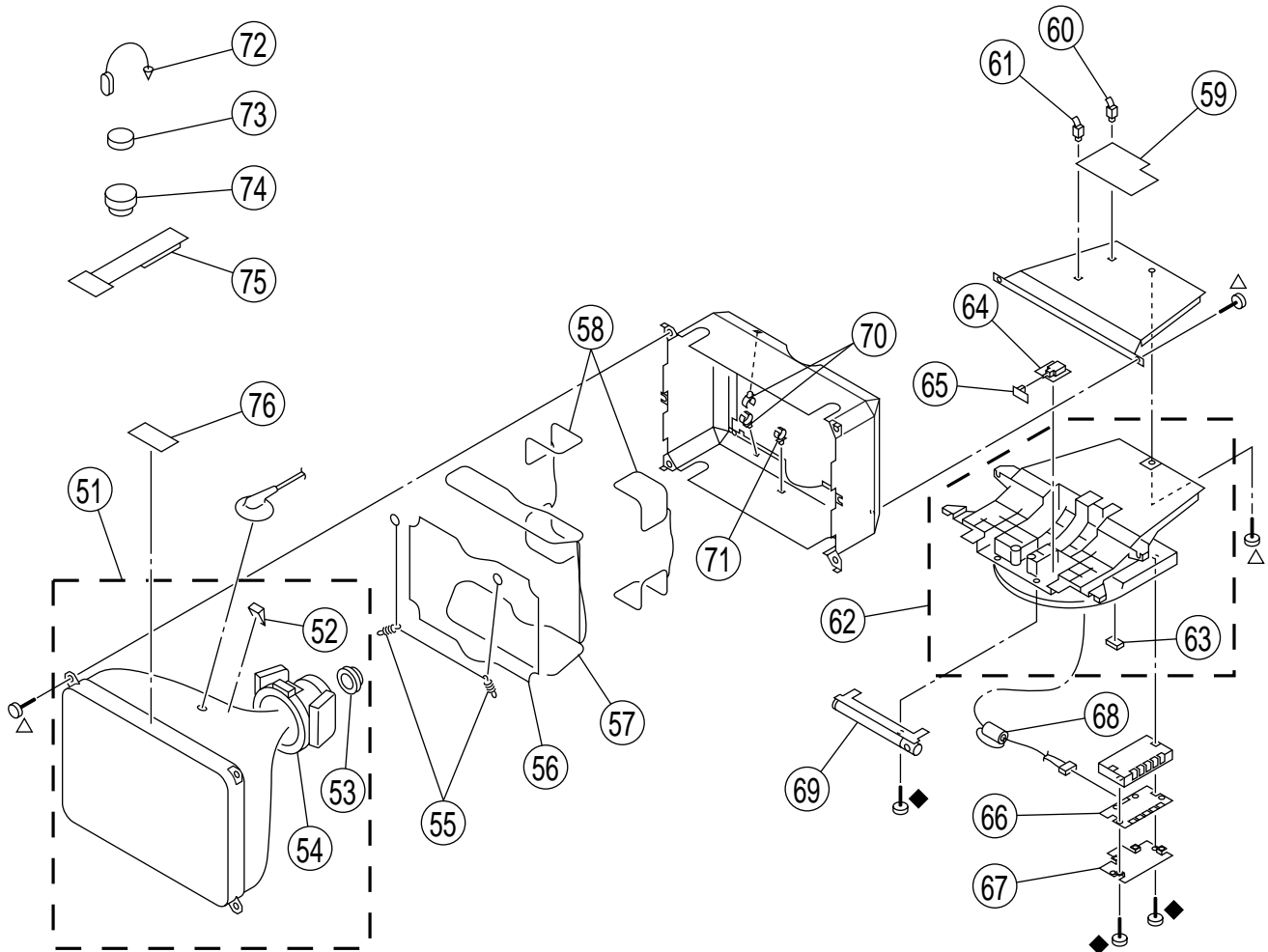
REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
1	4-077-500-01	BEZEL		11	*8-933-442-00	S BOARD, COMPLETE	
2	4-046-765-12	SCREW, TAPPING 7+CROWN WASHER		12	1-694-569-11	TERMINAL BOARD ASSY, I/O	
3	*8-933-440-00	D BOARD, COMPLETE	4	13	4-070-122-01	SCREW (HD15)	
4	\triangle 1-453-348-11	TRANSFORMER ASSY, FLYBACK (NX-4504//J1D4)		14	*8-933-432-00	A BOARD, COMPLETE	
5	4-062-115-01	SCREW +P 3.5X20 TYPE2		15	4-389-025-11	SCREW (M4) (EXT TOOTH WASHER)	
6	*8-933-441-00	G BOARD, COMPLETE		16	*4-069-570-01	SPACER, PRINTED CIRCUIT BOARD	
7	*3-701-903-11	HOLDER, PRINTED CIRCUIT BOARD		17	*4-063-711-01	SUPPORT, HV CABLE	
8	4-070-730-01	HOLDER, PRINTED CIRCUIT BOARD		18	X-4037-965-1	CABINET ASSY	
9	\triangle 1-251-382-31	INLET, AC 3P(WITH NOISE FILTE)		19	4-077-514-01	COVER, SCREW (L)	
10	4-052-345-01	SCREW, (3X8) (+K), TAPPING		20	4-077-515-01	COVER, SCREW (R)	
				21	4-077-512-01	COVER, ECS	
				22	*4-077-463-01	LABEL, INFORMATION	

6-2. PICTURE TUBE

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.

- \triangle : 7-685-881-09 +BVTT 4x8
- \blacklozenge : 7-685-648-79 +BVTP 3x12

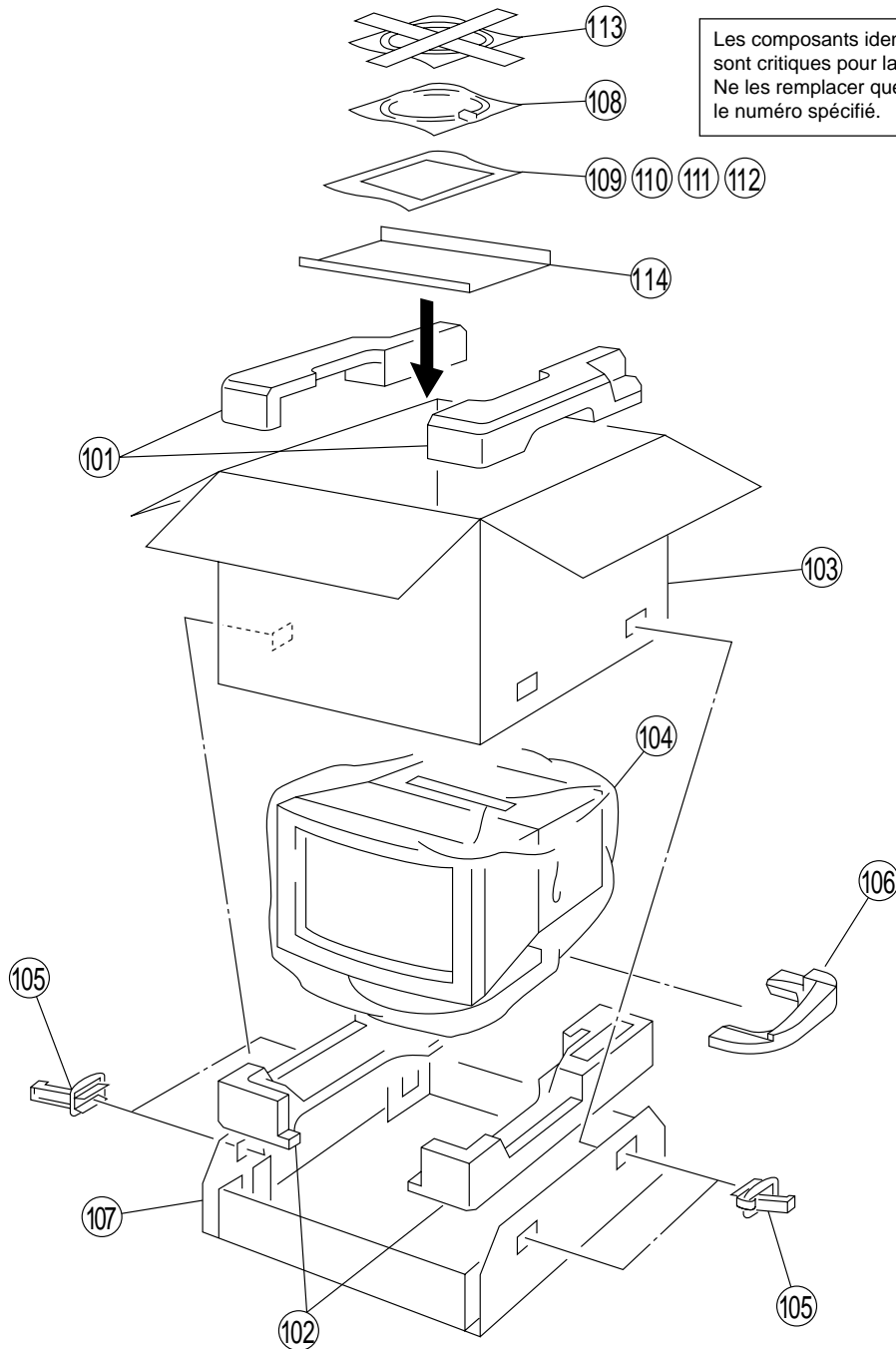


REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
51	\triangle 8-733-007-61	ITC ASSY (24TXF-R1)	52-54	65	* 4-394-972-21	CAP, POWER	
52	2-162-100-21	SPACER, DY		66	* A-1395-007-AUS	BOARD, COMPLETE	
53	\triangle 1-451-522-11	NECK ASSY (NA-2917)		67	4-072-376-01	COVER, STAND	
54	\triangle 1-451-523-11	DEFLECTION YOKE (Y24TXN-T)		68	* 1-543-830-11	CLAMP, SLEEVE FERRITE	
55	* 4-047-316-01	SPRING, EXTENSION		69	* 8-933-439-00	BLOCK ASSY, CONTROL (H BOARD)	
56	\triangle 1-419-675-11	COIL, ROTATION		70	4-041-021-02	HOLDER, DEGAUSE COIL	
57	\triangle 1-419-673-11	COIL, DEGAUSSING		71	4-071-175-01	HOLDER, DGC	
58	\triangle 1-419-674-11	COIL, LANDING CORRECTION		72	4-308-870-00	CLIP, LEAD WIRE	
59	* 8-933-433-00	N BOARD, COMPLETE		73	1-452-032-00	MAGNET, DISK; 10mm ϕ	
60	4-070-730-01	HOLDER, PRINTED CIRCUIT BOARD		74	1-452-094-00	MAGNET, ROTATABLE DISK; 15mm ϕ	
61	* 4-321-929-00	HOLDER, PC BOARD		75	4-051-736-21	PIECE A(90), CONV. CORRECT	
62	X-4037-954-1	STAND ASSY	63	76	4-036-700-01	SHEET, PROTECTION	
63	* 4-061-996-01	CUSHION					
64	* 8-933-396-00	J BOARD, COMPLETE					

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	*4-076-657-01	CUSHION (UPPER) (ASSY)		109	4-077-465-11	MANUAL, INSTRUCTION	
102	*4-076-658-01	CUSHION (LOWER) (ASSY)		110	Δ 1-782-783-21	CORD SET, POWER [U/C]	
103	*4-076-656-01	INDIVIDUAL CARTON		110	Δ 1-782-784-31	CORD SET, POWER [AEP]	
104	*4-030-594-11	BAG, PROTECTION		111	1-785-512-31	CONNECTOR, D SUB (15P CHANGER)	
105	*4-396-077-01	JOINT		112	1-790-081-21	CABLE, USB	
106	*4-077-239-01	TILT PAD		113	*1-696-619-21	CABLE (HD15-5BNC)	
107	*4-055-439-01	TRAY		114	*4-079-151-01	SHEET	
108	1-793-504-11	CABLE ASSY(15PDSUBX2CONNECTOR)					

SECTION 7

ELECTRICAL PARTS LIST



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
	* 8-933-396-00	J BOARD, COMPLETE *****		C027	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
				C028	1-163-220-11	CERAMIC CHIP 3PF	0.25PF 50V
		<CONNECTOR>		C029	1-163-241-11	CERAMIC CHIP 39PF	5.00% 50V
				C031	1-126-964-11	ELECT 10UF	20.00% 50V
				C033	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
	CN891*1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P		C036	1-163-037-11	CERAMIC CHIP 0.022UF	10.00% 50V
				C037	1-126-964-11	ELECT 10UF	20.00% 50V
		<SWITCH>		C038	1-126-964-11	ELECT 10UF	20.00% 50V
				C039	1-126-964-11	ELECT 10UF	20.00% 50V
	S891 Δ 1-771-727-11	SWITCH, AC POWER PUSH		C040	1-126-964-11	ELECT 10UF	20.00% 50V
				C041	1-126-964-11	ELECT 10UF	20.00% 50V
				C042	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
		*****		C043	1-126-965-11	ELECT 22UF	20.00% 50V
				C044	1-163-037-11	CERAMIC CHIP 0.022UF	10.00% 50V
				C045	1-163-037-11	CERAMIC CHIP 0.022UF	10.00% 50V
				C046	1-163-037-11	CERAMIC CHIP 0.022UF	10.00% 50V
				C047	1-163-037-11	CERAMIC CHIP 0.022UF	10.00% 50V
	* 8-933-433-00	N BOARD, COMPLETE *****		C048	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
				C049	1-126-964-11	ELECT 10UF	20.00% 50V
		<CAPACITOR>		C050	1-126-964-11	ELECT 10UF	20.00% 50V
				C051	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
	C001	1-163-009-11 CERAMIC CHIP 0.001UF	10.00% 50V	C052	1-126-933-11	ELECT 100UF	20.00% 16V
	C002	1-163-009-11 CERAMIC CHIP 0.001UF	10.00% 50V				
	C003	1-163-021-91 CERAMIC CHIP 0.01UF	10.00% 50V	C053	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
	C005	1-163-255-11 CERAMIC CHIP 150PF	5.00% 50V	C054	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
	C006	1-163-235-11 CERAMIC CHIP 22PF	5.00% 50V	C055	1-104-664-11	ELECT 47UF	20.00% 25V
				C056	1-126-965-11	ELECT 22UF	20.00% 50V
	C007	1-163-235-11 CERAMIC CHIP 22PF	5.00% 50V	C057	1-126-964-11	ELECT 10UF	20.00% 50V
	C008	1-164-004-11 CERAMIC CHIP 0.1UF	10.00% 25V				
	C011	1-115-339-11 CERAMIC CHIP 0.1UF	10.00% 50V	C058	1-164-690-91	CERAMIC CHIP 0.0022UF	5.00% 50V
	C012	1-126-967-11 ELECT 47UF	20.00% 50V	C059	1-126-964-11	ELECT 10UF	20.00% 50V
	C013	1-126-965-11 ELECT 22UF	20.00% 50V	C061	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
				C062	1-104-665-11	ELECT 100UF	20.00% 25V
	C014	1-163-021-91 CERAMIC CHIP 0.01UF	10.00% 50V	C063	1-164-690-91	CERAMIC CHIP 0.0022UF	5.00% 50V
	C015	1-163-021-91 CERAMIC CHIP 0.01UF	10.00% 50V				
	C016	1-163-021-91 CERAMIC CHIP 0.01UF	10.00% 50V	C064	1-115-419-11	CERAMIC CHIP 3300PF	5.00% 25V
	C017	1-163-021-91 CERAMIC CHIP 0.01UF	10.00% 50V	C065	1-126-960-11	ELECT 1UF	20.00% 50V
	C018	1-163-021-91 CERAMIC CHIP 0.01UF	10.00% 50V	C066	1-164-690-91	CERAMIC CHIP 0.0022UF	5.00% 50V
				C067	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
	C019	1-163-021-91 CERAMIC CHIP 0.01UF	10.00% 50V	C068	1-136-169-00	MYLAR 0.22UF	5.00% 50V
	C020	1-163-021-91 CERAMIC CHIP 0.01UF	10.00% 50V				
	C021	1-163-021-91 CERAMIC CHIP 0.01UF	10.00% 50V	C069	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
	C022	1-163-021-91 CERAMIC CHIP 0.01UF	10.00% 50V	C070	1-126-767-11	ELECT 1000UF	20.00% 16V
	C023	1-163-021-91 CERAMIC CHIP 0.01UF	10.00% 50V	C071	1-163-007-11	CERAMIC CHIP 680PF	10.00% 50V
				C072	1-126-942-61	ELECT 1000UF	20.00% 25V
	C024	1-163-009-11 CERAMIC CHIP 0.001UF	10.00% 50V	C073	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
	C025	1-163-009-11 CERAMIC CHIP 0.001UF	10.00% 50V				
	C026	1-104-665-11 ELECT 100UF	20.00% 25V				



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK	
C074	1-163-137-00	CERAMIC CHIP 680PF	5.00%	50V	C5413	1-164-004-11 CERAMIC CHIP 0.1UF	10.00%	25V
C075	1-163-251-11	CERAMIC CHIP 100PF	5.00%	50V	C5501	1-126-967-11 ELECT 47UF	20.00%	50V
C077	1-115-339-11	CERAMIC CHIP 0.1UF	10.00%	50V	C5602	1-115-339-11 CERAMIC CHIP 0.1UF	10.00%	50V
C078	1-136-169-00	MYLAR 0.22UF	5.00%	50V	C5606	1-163-021-91 CERAMIC CHIP 0.01UF	10.00%	50V
C079	1-163-021-91	CERAMIC CHIP 0.01UF	10.00%	50V	C5607	1-164-004-11 CERAMIC CHIP 0.1UF	10.00%	25V
C080	1-126-967-11	ELECT 47UF	20.00%	50V				
C082	1-104-664-11	ELECT 47UF	20.00%	25V		<CONNECTOR>		
C083	1-163-021-91	CERAMIC CHIP 0.01UF	10.00%	50V	CN001	1-784-500-11 CONNECTOR, FFC/FPC 21P		
C084	1-126-964-11	ELECT 10UF	20.00%	50V	CN002*	1-564-511-11 PLUG, CONNECTOR 8P		
C085	1-163-021-91	CERAMIC CHIP 0.01UF	10.00%	50V	CN003	1-784-488-11 CONNECTOR, FFC/FPC 9P		
C086	1-163-021-91	CERAMIC CHIP 0.01UF	10.00%	50V	CN007	1-784-490-11 CONNECTOR, FFC/FPC 11P		
C087	1-126-964-11	ELECT 10UF	20.00%	50V	CN010	1-784-786-11 CONNECTOR, FFC 25P		
C089	1-163-021-91	CERAMIC CHIP 0.01UF	10.00%	50V	CN011	1-784-786-11 CONNECTOR, FFC 25P		
C090	1-163-021-91	CERAMIC CHIP 0.01UF	10.00%	50V	CN5001*	1-564-509-11 PLUG, CONNECTOR 6P		
C091	1-126-933-11	ELECT 100UF	20.00%	16V	CN5002*	1-564-511-11 PLUG, CONNECTOR 8P		
C093	1-115-339-11	CERAMIC CHIP 0.1UF	10.00%	50V	CN5003*	1-564-505-11 PLUG, CONNECTOR 2P		
C094	1-164-004-11	CERAMIC CHIP 0.1UF	10.00%	25V				
C095	1-117-722-11	ELECT 2200UF	20.00%	10V		<DIODE>		
C096	1-163-021-91	CERAMIC CHIP 0.01UF	10.00%	50V	D001	8-719-062-51 DIODE 1PS226-115		
C097	1-126-964-11	ELECT 10UF	20.00%	50V	D002	8-719-062-51 DIODE 1PS226-115		
C098	1-163-021-91	CERAMIC CHIP 0.01UF	10.00%	50V	D003	8-719-062-51 DIODE 1PS226-115		
C099	1-164-004-11	CERAMIC CHIP 0.1UF	10.00%	25V	D004	8-719-062-51 DIODE 1PS226-115		
C1003	1-104-664-11	ELECT 47UF	20.00%	25V	D008	8-719-109-89 ZENER DIODE RD5.6ESB2		
C1004	1-163-021-91	CERAMIC CHIP 0.01UF	10.00%	50V	D009	8-719-109-89 ZENER DIODE RD5.6ESB2		
C1005	1-163-005-11	CERAMIC CHIP 470PF	10.00%	50V	D010	8-719-109-89 ZENER DIODE RD5.6ESB2		
C1006	1-164-161-11	CERAMIC CHIP 0.0022UF	10.00%	50V	D012	8-719-109-89 ZENER DIODE RD5.6ESB2		
C1008	1-163-085-00	CERAMIC CHIP 2PF	0.25PF	50V	D013	8-719-110-17 ZENER DIODE RD10ESB2		
C1009	1-163-087-00	CERAMIC CHIP 4PF	0.25PF	50V	D015	8-719-801-78 DIODE 1SS184		
C5002	1-126-964-11	ELECT 10UF	20.00%	50V	D016	8-719-109-89 ZENER DIODE RD5.6ESB2		
C5003	1-126-933-11	ELECT 100UF	20.00%	16V	D017	8-719-109-89 ZENER DIODE RD5.6ESB2		
C5004	1-104-664-11	ELECT 47UF	20.00%	25V	D018	8-719-109-89 ZENER DIODE RD5.6ESB2		
C5005	1-104-664-11	ELECT 47UF	20.00%	25V	D020	8-719-988-61 DIODE 1SS355TE-17		
C5008	1-104-664-11	ELECT 47UF	20.00%	25V	D021	8-719-988-61 DIODE 1SS355TE-17		
C5009	1-164-004-11	CERAMIC CHIP 0.1UF	10.00%	25V	D022	8-719-801-78 DIODE 1SS184		
C5101	1-164-004-11	CERAMIC CHIP 0.1UF	10.00%	25V	D023	8-719-801-78 DIODE 1SS184		
C5103	1-164-004-11	CERAMIC CHIP 0.1UF	10.00%	25V	D024	8-719-801-78 DIODE 1SS184		
C5105	1-104-664-11	ELECT 47UF	20.00%	25V	D025	8-719-062-51 DIODE 1PS226-115		
C5106	1-164-004-11	CERAMIC CHIP 0.1UF	10.00%	25V	D026	8-719-062-51 DIODE 1PS226-115		
C5108	1-164-004-11	CERAMIC CHIP 0.1UF	10.00%	25V	D027	8-719-988-61 DIODE 1SS355TE-17		
C5110	1-104-664-11	ELECT 47UF	20.00%	25V	D028	8-719-988-61 DIODE 1SS355TE-17		
C5203	1-164-004-11	CERAMIC CHIP 0.1UF	10.00%	25V	D029	8-719-109-85 ZENER DIODE RD5.1ESB2		
C5205	1-164-004-11	CERAMIC CHIP 0.1UF	10.00%	25V	D036	8-719-109-89 ZENER DIODE RD5.6ESB2		
C5206	1-163-021-91	CERAMIC CHIP 0.01UF	10.00%	50V	D037	8-719-109-89 ZENER DIODE RD5.6ESB2		
C5301	1-164-004-11	CERAMIC CHIP 0.1UF	10.00%	25V	D038	8-719-045-99 ZENER DIODE RD2.2M-T1B		
C5303	1-164-004-11	CERAMIC CHIP 0.1UF	10.00%	25V				
C5304	1-163-021-91	CERAMIC CHIP 0.01UF	10.00%	50V		<FERRITE BEAD>		
C5305	1-104-664-11	ELECT 47UF	20.00%	25V	FB001	1-410-397-21 FERRITE 1.1UH		
C5306	1-164-004-11	CERAMIC CHIP 0.1UF	10.00%	25V	FB002	1-410-397-21 FERRITE 1.1UH		
C5308	1-164-004-11	CERAMIC CHIP 0.1UF	10.00%	25V	FB003	1-410-397-21 FERRITE 1.1UH		
C5310	1-104-664-11	ELECT 47UF	20.00%	25V	FB5101	1-412-911-11 FERRITE 1.1UH		
C5401	1-164-004-11	CERAMIC CHIP 0.1UF	10.00%	25V	FB5103	1-412-911-11 FERRITE 1.1UH		
C5403	1-163-021-91	CERAMIC CHIP 0.01UF	10.00%	50V	FB5201	1-412-911-11 FERRITE 1.1UH		
C5404	1-163-021-91	CERAMIC CHIP 0.01UF	10.00%	50V	FB5301	1-412-911-11 FERRITE 1.1UH		
C5406	1-164-004-11	CERAMIC CHIP 0.1UF	10.00%	25V				
C5408	1-163-005-11	CERAMIC CHIP 470PF	10.00%	50V				
C5409	1-163-021-91	CERAMIC CHIP 0.01UF	10.00%	50V				



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
FB53031	412-911-11	FERRITE	1.1UH	R016	1-216-017-91	RES-CHIP	47 5% 1/10W
FB54011	412-911-11	FERRITE	1.1UH	R017	1-216-017-91	RES-CHIP	47 5% 1/10W
FB54031	412-911-11	FERRITE	1.1UH	R018	1-216-049-91	RES-CHIP	1K 5% 1/10W
				R019	1-216-025-91	RES-CHIP	100 5% 1/10W
FB56011	412-911-11	FERRITE	1.1UH	R020	1-216-025-91	RES-CHIP	100 5% 1/10W
		<SENSOR>		R021	1-216-025-91	RES-CHIP	100 5% 1/10W
				R022	1-216-025-91	RES-CHIP	100 5% 1/10W
GS5001	1-418-473-11	SENSOR UNIT, GEOWAGNETIC		R023	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
				R024	1-216-025-91	RES-CHIP	100 5% 1/10W
				R025	1-216-025-91	RES-CHIP	100 5% 1/10W
		<IC>		R026	1-216-025-91	RES-CHIP	100 5% 1/10W
IC001	8-759-686-06	IC CXD-9155Q-0010		R029	1-216-073-00	RES-CHIP	10K 5% 1/10W
IC002	8-759-162-80	IC MM1170BFB		R030	1-216-049-91	RES-CHIP	1K 5% 1/10W
IC003	8-759-527-77	IC M24C16-MN6T		R031	1-216-669-11	METAL CHIP	5.6K 0.50% 1/10W
IC004	8-759-491-55	IC TC74VHCT74AFT(EL)		R032	1-216-665-11	METAL CHIP	3.9K 0.50% 1/10W
IC005	8-759-491-55	IC TC74VHCT74AFT(EL)		R034	1-216-049-91	RES-CHIP	1K 5% 1/10W
IC006	8-759-700-78	IC NJM082M		R035	1-216-073-00	RES-CHIP	10K 5% 1/10W
IC010	8-759-585-70	IC LA7865M-TLM		R036	1-216-659-11	METAL CHIP	2.2K 0.50% 1/10W
IC011	8-759-661-55	IC ST24FC21M6TR		R037	1-216-073-00	RES-CHIP	10K 5% 1/10W
IC5101	8-759-822-38	IC LA6510		R039	1-216-025-91	RES-CHIP	100 5% 1/10W
IC5201	8-759-822-07	IC LA6515		R040	1-216-025-91	RES-CHIP	100 5% 1/10W
IC5301	8-759-822-38	IC LA6510		R042	1-216-073-00	RES-CHIP	10K 5% 1/10W
IC5401	8-759-822-07	IC LA6515		R043	1-216-049-91	RES-CHIP	1K 5% 1/10W
		<COIL>		R044	1-216-657-11	METAL CHIP	1.8K 0.50% 1/10W
L002	1-406-665-11	INDUCTOR 100UH		R045	1-216-049-91	RES-CHIP	1K 5% 1/10W
L003	1-406-671-11	INDUCTOR 1MH		R046	1-216-073-00	RES-CHIP	10K 5% 1/10W
		<TRANSISTOR>		R047	1-216-049-91	RES-CHIP	1K 5% 1/10W
Q001	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R048	1-216-049-91	RES-CHIP	1K 5% 1/10W
Q002	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R049	1-216-073-00	RES-CHIP	10K 5% 1/10W
Q003	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R053	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
Q004	8-729-028-83	TRANSISTOR DTA124EUA-T106		R054	1-216-077-91	RES-CHIP	15K 5% 1/10W
Q005	8-729-033-26	TRANSISTOR DTA114GKAT146		R055	1-216-077-91	RES-CHIP	15K 5% 1/10W
Q006	8-729-027-49	TRANSISTOR DTC123EKA-T146		R056	1-216-073-00	RES-CHIP	10K 5% 1/10W
Q007	8-729-901-00	TRANSISTOR DTC124EK		R057	1-216-073-00	RES-CHIP	10K 5% 1/10W
Q008	8-729-033-25	TRANSISTOR DTC114GKA		R058	1-216-067-00	RES-CHIP	5.6K 5% 1/10W
Q009	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R059	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
Q010	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R060	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
Q011	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R061	1-216-049-91	RES-CHIP	1K 5% 1/10W
Q012	8-729-901-00	TRANSISTOR DTC124EK		R062	1-216-613-11	METAL CHIP	27 0.50% 1/10W
		<RESISTOR>		R063	1-216-613-11	METAL CHIP	27 0.50% 1/10W
R003	1-216-025-91	RES-CHIP	100 5% 1/10W	R064	1-216-613-11	METAL CHIP	27 0.50% 1/10W
R004	1-216-025-91	RES-CHIP	100 5% 1/10W	R066	1-216-049-91	RES-CHIP	1K 5% 1/10W
R005	1-216-025-91	RES-CHIP	100 5% 1/10W	R067	1-216-073-00	RES-CHIP	10K 5% 1/10W
R006	1-216-025-91	RES-CHIP	100 5% 1/10W	R068	1-216-295-91	SHORT	0
R007	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R069	1-216-295-91	SHORT	0
R008	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R070	1-216-295-91	SHORT	0
R009	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R071	1-216-295-91	SHORT	0
R010	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R072	1-216-295-91	SHORT	0
R014	1-216-049-91	RES-CHIP	1K 5% 1/10W	R073	1-216-295-91	SHORT	0
R015	1-249-389-11	CARBON	4.7 5% 1/4W	R074	1-216-295-91	SHORT	0
				R075	1-215-407-00	METAL	270 1% 1/4W
				R076	1-215-407-00	METAL	270 1% 1/4W
				R078	1-216-121-91	RES-CHIP	1M 5% 1/10W
				R079	1-216-295-91	SHORT	0
				R080	1-216-295-91	SHORT	0
				R081	1-216-049-91	RES-CHIP	1K 5% 1/10W

GDM-FW900



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R082	1-216-049-91	RES-CHIP	1K 5% 1/10W	R1043	1-216-025-91	RES-CHIP	100 5% 1/10W
R084	1-216-073-00	RES-CHIP	10K 5% 1/10W	R1044	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W
R085	1-216-049-91	RES-CHIP	1K 5% 1/10W	R1045	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R086	1-216-049-91	RES-CHIP	1K 5% 1/10W				
R090	1-216-073-00	RES-CHIP	10K 5% 1/10W	R1046	1-216-025-91	RES-CHIP	100 5% 1/10W
R091	1-216-049-91	RES-CHIP	1K 5% 1/10W	R1047	1-216-073-00	RES-CHIP	10K 5% 1/10W
R092	1-216-049-91	RES-CHIP	1K 5% 1/10W	R1049	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R093	1-216-049-91	RES-CHIP	1K 5% 1/10W	R1050	1-216-073-00	RES-CHIP	10K 5% 1/10W
R094	1-216-049-91	RES-CHIP	1K 5% 1/10W	R1051	1-216-097-91	RES-CHIP	100K 5% 1/10W
R095	1-216-049-91	RES-CHIP	1K 5% 1/10W	R1052	1-216-073-00	RES-CHIP	10K 5% 1/10W
R096	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R1053	1-216-049-91	RES-CHIP	1K 5% 1/10W
R097	1-216-073-00	RES-CHIP	10K 5% 1/10W	R1054	1-216-073-00	RES-CHIP	10K 5% 1/10W
R098	1-216-073-00	RES-CHIP	10K 5% 1/10W	R1055	1-216-049-91	RES-CHIP	1K 5% 1/10W
R099	1-216-049-91	RES-CHIP	1K 5% 1/10W	R1056	1-216-073-00	RES-CHIP	10K 5% 1/10W
R1001	1-216-049-91	RES-CHIP	1K 5% 1/10W	R1057	1-216-049-91	RES-CHIP	1K 5% 1/10W
R1002	1-216-049-91	RES-CHIP	1K 5% 1/10W	R1058	1-216-073-00	RES-CHIP	10K 5% 1/10W
R1003	1-216-049-91	RES-CHIP	1K 5% 1/10W	R1059	1-216-049-91	RES-CHIP	1K 5% 1/10W
R1004	1-216-049-91	RES-CHIP	1K 5% 1/10W	R1060	1-216-073-00	RES-CHIP	10K 5% 1/10W
R1005	1-216-049-91	RES-CHIP	1K 5% 1/10W	R1061	1-216-073-00	RES-CHIP	10K 5% 1/10W
R1006	1-216-049-91	RES-CHIP	1K 5% 1/10W	R1062	1-216-049-91	RES-CHIP	1K 5% 1/10W
R1007	1-216-049-91	RES-CHIP	1K 5% 1/10W	R1063	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R1008	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W	R1064	1-216-049-91	RES-CHIP	1K 5% 1/10W
R1009	1-216-049-91	RES-CHIP	1K 5% 1/10W	R1065	1-216-117-00	RES-CHIP	680K 5% 1/10W
R1010	1-216-049-91	RES-CHIP	1K 5% 1/10W	R1066	1-216-073-00	RES-CHIP	10K 5% 1/10W
R1011	1-216-049-91	RES-CHIP	1K 5% 1/10W	R1067	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R1012	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R1068	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R1013	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R1069	1-216-049-91	RES-CHIP	1K 5% 1/10W
R1014	1-216-049-91	RES-CHIP	1K 5% 1/10W	R1070	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R1015	1-216-049-91	RES-CHIP	1K 5% 1/10W	R1071	1-216-081-00	RES-CHIP	22K 5% 1/10W
R1016	1-216-049-91	RES-CHIP	1K 5% 1/10W	R1075	1-216-295-91	SHORT	0
R1017	1-216-049-91	RES-CHIP	1K 5% 1/10W	R1076	1-216-295-91	SHORT	0
R1018	1-216-049-91	RES-CHIP	1K 5% 1/10W	R1077	1-216-025-91	RES-CHIP	100 5% 1/10W
R1019	1-216-049-91	RES-CHIP	1K 5% 1/10W	R5003	1-216-295-91	SHORT	0
R1020	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R5005	1-216-081-00	RES-CHIP	22K 5% 1/10W
R1021	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R5006	1-216-073-00	RES-CHIP	10K 5% 1/10W
R1022	1-216-659-11	METAL CHIP	2.2K 0.50% 1/10W	R5007	1-216-049-91	RES-CHIP	1K 5% 1/10W
R1023	1-216-659-11	METAL CHIP	2.2K 0.50% 1/10W	R5010	1-216-295-91	SHORT	0
R1024	1-216-681-11	METAL CHIP	18K 0.50% 1/10W	R5011	1-216-073-00	RES-CHIP	10K 5% 1/10W
R1025	1-216-025-91	RES-CHIP	100 5% 1/10W	R5015	1-216-049-91	RES-CHIP	1K 5% 1/10W
R1026	1-216-109-00	RES-CHIP	330K 5% 1/10W	R5108	1-216-308-00	RES-CHIP	4.7 5% 1/10W
R1027	1-216-659-11	METAL CHIP	2.2K 0.50% 1/10W	R5109	1-216-308-00	RES-CHIP	4.7 5% 1/10W
R1028	1-216-647-11	METAL CHIP	680 0.50% 1/10W	R5110	1-216-073-00	RES-CHIP	10K 5% 1/10W
R1029	1-216-025-91	RES-CHIP	100 5% 1/10W	R5113	1-216-073-00	RES-CHIP	10K 5% 1/10W
R1030	1-216-025-91	RES-CHIP	100 5% 1/10W	R5115	1-215-859-00	METAL OXIDE	22 5% 1W
R1031	1-216-025-91	RES-CHIP	100 5% 1/10W	R5116	1-216-073-00	RES-CHIP	10K 5% 1/10W
R1032	1-216-025-91	RES-CHIP	100 5% 1/10W	R5119	1-216-073-00	RES-CHIP	10K 5% 1/10W
R1033	1-216-025-91	RES-CHIP	100 5% 1/10W	R5122	1-215-859-00	METAL OXIDE	22 5% 1W
R1034	1-216-025-91	RES-CHIP	100 5% 1/10W	R5205	1-216-073-00	RES-CHIP	10K 5% 1/10W
R1035	1-216-025-91	RES-CHIP	100 5% 1/10W	R5206	1-215-859-00	METAL OXIDE	22 5% 1W
R1036	1-216-025-91	RES-CHIP	100 5% 1/10W	R5207	1-216-073-00	RES-CHIP	10K 5% 1/10W
R1037	1-216-025-91	RES-CHIP	100 5% 1/10W	R5208	1-216-069-00	RES-CHIP	6.8K 5% 1/10W
R1038	1-216-025-91	RES-CHIP	100 5% 1/10W	R5209	1-216-308-00	RES-CHIP	4.7 5% 1/10W
R1039	1-216-025-91	RES-CHIP	100 5% 1/10W	R5308	1-216-308-00	RES-CHIP	4.7 5% 1/10W
R1040	1-216-025-91	RES-CHIP	100 5% 1/10W	R5309	1-216-308-00	RES-CHIP	4.7 5% 1/10W
R1041	1-216-025-91	RES-CHIP	100 5% 1/10W	R5310	1-216-073-00	RES-CHIP	10K 5% 1/10W
R1042	1-216-025-91	RES-CHIP	100 5% 1/10W	R5313	1-216-073-00	RES-CHIP	10K 5% 1/10W
				R5315	1-215-859-00	METAL OXIDE	22 5% 1W



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R5316	1-216-073-00	RES-CHIP	10K 5% 1/10W	C3011	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
R5319	1-216-073-00	RES-CHIP	10K 5% 1/10W	C3012	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
R5322	1-215-859-00	METAL OXIDE	22 5% 1W	C3013	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
R5406	1-216-083-00	RES-CHIP	27K 5% 1/10W	C3014	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
R5407	1-216-085-00	RES-CHIP	33K 5% 1/10W	C3015	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
R5408	1-216-308-00	RES-CHIP	4.7 5% 1/10W	C3016	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
R5409	1-216-308-00	RES-CHIP	4.7 5% 1/10W	C3017	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
R5410	1-216-081-00	RES-CHIP	22K 5% 1/10W	C3018	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
R5413	1-216-097-91	RES-CHIP	100K 5% 1/10W	C3019	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
R5415	1-215-887-00	METAL OXIDE	150 5% 2W	C3020	1-126-964-11	ELECT 10UF	20.00% 50V
R5416	1-216-081-00	RES-CHIP	22K 5% 1/10W	C3021	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
R5419	1-216-097-91	RES-CHIP	100K 5% 1/10W	C3022	1-126-960-11	ELECT 1UF	20.00% 50V
R5422	1-216-451-11	METAL OXIDE	120 5% 2W	C3023	1-126-964-11	ELECT 10UF	20.00% 50V
R5502	1-216-081-00	RES-CHIP	22K 5% 1/10W	C3024	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
R5503	1-216-081-00	RES-CHIP	22K 5% 1/10W	C3025	1-126-960-11	ELECT 1UF	20.00% 50V
R5504	1-216-089-91	RES-CHIP	47K 5% 1/10W	C3026	1-126-964-11	ELECT 10UF	20.00% 50V
R5505	1-216-089-91	RES-CHIP	47K 5% 1/10W	C3027	1-126-964-11	ELECT 10UF	20.00% 50V
R5506	1-216-069-00	RES-CHIP	6.8K 5% 1/10W	C3028	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
R5507	1-249-382-11	CARBON	1.2 5% 1/4W	C3029	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
R5508	1-249-382-11	CARBON	1.2 5% 1/4W	C3030	1-126-964-11	ELECT 10UF	20.00% 50V
R5509	1-249-382-11	CARBON	1.2 5% 1/4W	C3031	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
R5510	1-249-382-11	CARBON	1.2 5% 1/4W	C3032	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
R5602	1-216-081-00	RES-CHIP	22K 5% 1/10W	C3033	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
R5603	1-216-077-91	RES-CHIP	15K 5% 1/10W	C3034	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
R5604	1-216-081-00	RES-CHIP	22K 5% 1/10W	C3035	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
R5605	1-216-097-91	RES-CHIP	100K 5% 1/10W	C3036	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
R5607	1-215-862-11	METAL OXIDE	68 5% 1W	C3037	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
R5610	1-216-308-00	RES-CHIP	4.7 5% 1/10W	C3038	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
		<CRYSTAL>		C3039	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
X001	1-760-682-21	VIBRATOR, CRYSTAL (24.756MHz)		C3040	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
*****				C3041	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
		* 8-933-442-00 S BOARD, COMPLETE		C3042	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
		*****		C3043	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
		4-077-446-01 HEAT SINK (S1) (IC3002, IC3003)		C3044	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
		* 4-381-906-01 SPRING (F) (IC3002, IC3003)		C3045	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
		<CAPACITOR>		C3046	1-126-964-11	ELECT 10UF	20.00% 50V
C3001	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C3047	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C3002	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C3048	1-126-964-11	ELECT 10UF	20.00% 50V
C3003	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C3049	1-126-964-11	ELECT 10UF	20.00% 50V
C3004	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C3050	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C3005	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C3051	1-126-964-11	ELECT 10UF	20.00% 50V
C3006	1-126-964-11	ELECT 10UF	20.00% 50V	C3052	1-126-963-11	ELECT 4.7UF	20.00% 50V
C3007	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C3053	1-163-037-11	CERAMIC CHIP 0.022UF	10.00% 50V
C3008	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C3056	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C3009	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C3057	1-126-964-11	ELECT 10UF	20.00% 50V
C3010	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C3058	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
				C3062	1-126-942-61	ELECT 1000UF	20.00% 25V
				C3063	1-126-942-61	ELECT 1000UF	20.00% 25V
				C3064	1-163-235-11	CERAMIC CHIP 22PF	5.00% 50V
				C3065	1-137-378-11	MYLAR 0.22UF	5.00% 50V
				C3066	1-163-235-11	CERAMIC CHIP 22PF	5.00% 50V
				C3067	1-137-378-11	MYLAR 0.22UF	5.00% 50V
				C3068	1-163-235-11	CERAMIC CHIP 22PF	5.00% 50V
				C3069	1-137-378-11	MYLAR 0.22UF	5.00% 50V
				C3070	1-163-235-11	CERAMIC CHIP 22PF	5.00% 50V
				C3071	1-137-378-11	MYLAR 0.22UF	5.00% 50V

GDM-FW900



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C3072	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V	R3017	1-216-025-91	RES-CHIP 100	5% 1/10W
C3074	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	R3018	1-216-065-91	RES-CHIP 4.7K	5% 1/10W
C3075	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	R3019	1-216-295-91	SHORT 0	
C3076	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	R3020	1-216-025-91	RES-CHIP 100	5% 1/10W
C3078	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	R3021	1-216-065-91	RES-CHIP 4.7K	5% 1/10W
C3079	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	R3022	1-216-065-91	RES-CHIP 4.7K	5% 1/10W
C3080	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	R3023	1-216-049-91	RES-CHIP 1K	5% 1/10W
C3081	1-127-820-91	CERAMIC 4.7UF	16V	R3024	1-216-057-00	RES-CHIP 2.2K	5% 1/10W
C3082	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	R3025	1-216-049-91	RES-CHIP 1K	5% 1/10W
<CONNECTOR>				R3026	1-216-057-00	RES-CHIP 2.2K	5% 1/10W
CN3001	1-784-451-11	CONNECTOR, FFC/FPC 9P		R3027	1-216-049-91	RES-CHIP 1K	5% 1/10W
CN3002*	1-564-523-11	PLUG, CONNECTOR 8P		R3028	1-216-057-00	RES-CHIP 2.2K	5% 1/10W
CN3003*	1-564-518-11	PLUG, CONNECTOR 3P		R3029	1-216-025-91	RES-CHIP 100	5% 1/10W
<DIODE>				R3030	1-216-627-11	METAL CHIP 100	0.50%1/10W
D3001	8-719-073-01	DIODE MA111-(K8.)S0		R3031	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W
D3003	8-719-978-04	ZENER DIODE DTZ-TT11-3.3B		R3032	1-216-677-11	METAL CHIP 12K	0.50%1/10W
D3004	8-719-978-04	ZENER DIODE DTZ-TT11-3.3B		R3033	1-249-409-11	CARBON 220	5% 1/4W
<IC>				R3034	1-216-666-11	METAL CHIP 4.3K	0.50%1/10W
IC3001	8-759-586-18	IC CXD9510Q		R3035	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W
IC3002	8-749-017-48	IC STK391-220		R3038	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W
IC3003	8-749-017-48	IC STK391-220		R3039	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W
IC3004	8-759-445-59	IC BA033T		R3040	1-216-295-91	SHORT 0	
IC3005	8-759-527-77	IC M24C16-MN6T		R3042	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W
IC3006	8-759-352-91	IC PST9143NL		R3044	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W
<TRANSISTOR>				R3045	1-216-065-91	RES-CHIP 4.7K	5% 1/10W
Q3001	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R3046	1-216-073-00	RES-CHIP 10K	5% 1/10W
Q3002	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R3047	1-216-386-11	METAL OXIDE 0.56	5% 3W
Q3003	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R3048	1-216-387-11	METAL OXIDE 0.68	5% 3W
Q3004	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R3049	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W
Q3005	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R3050	1-216-475-11	METAL OXIDE 120	5% 3W
<RESISTOR>				R3051	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W
R3001	1-216-631-11	METAL CHIP 150	0.50%1/10W	R3052	1-216-475-11	METAL OXIDE 120	5% 3W
R3002	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W	R3053	1-216-386-11	METAL OXIDE 0.56	5% 3W
R3003	1-216-651-11	METAL CHIP 1K	0.50%1/10W	R3054	1-216-387-11	METAL OXIDE 0.68	5% 3W
R3004	1-216-661-11	METAL CHIP 2.7K	0.50%1/10W	R3055	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W
R3005	1-216-651-11	METAL CHIP 1K	0.50%1/10W	R3056	1-216-474-11	METAL OXIDE 82	5% 3W
R3006	1-216-651-11	METAL CHIP 1K	0.50%1/10W	R3057	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W
R3007	1-216-631-11	METAL CHIP 150	0.50%1/10W	R3058	1-216-475-11	METAL OXIDE 120	5% 3W
R3008	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W	R3059	1-216-295-91	SHORT 0	
R3009	1-216-651-11	METAL CHIP 1K	0.50%1/10W	R3060	1-216-295-91	SHORT 0	
R3010	1-216-661-11	METAL CHIP 2.7K	0.50%1/10W	R3062	1-216-295-91	SHORT 0	
R3011	1-216-651-11	METAL CHIP 1K	0.50%1/10W	R3063	1-216-295-91	SHORT 0	
R3012	1-216-651-11	METAL CHIP 1K	0.50%1/10W	R3064	1-216-295-91	SHORT 0	
R3013	1-216-057-00	RES-CHIP 2.2K	5% 1/10W	R3065	1-216-627-11	METAL CHIP 100	0.50%1/10W
R3014	1-216-073-00	RES-CHIP 10K	5% 1/10W	R3066	1-216-343-00	METAL OXIDE 0.33	5% 1W
R3015	1-216-065-91	RES-CHIP 4.7K	5% 1/10W	R3067	1-216-343-00	METAL OXIDE 0.33	5% 1W
R3016	1-216-295-91	SHORT 0		R3070	1-216-097-91	RES-CHIP 100K	5% 1/10W
				R3071	1-216-073-00	RES-CHIP 10K	5% 1/10W
				R3072	1-216-065-91	RES-CHIP 4.7K	5% 1/10W
				R3073	1-216-049-91	RES-CHIP 1K	5% 1/10W
				R3074	1-216-077-91	RES-CHIP 15K	5% 1/10W
				R3075	1-216-069-00	RES-CHIP 6.8K	5% 1/10W
				R3076	1-216-069-00	RES-CHIP 6.8K	5% 1/10W
				R3077	1-216-073-00	RES-CHIP 10K	5% 1/10W



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R3078	1-216-073-00	RES-CHIP 10K	5% 1/10W	C536	1-126-967-11	ELECT 47UF	20.00% 50V
R3079	1-216-073-00	RES-CHIP 10K	5% 1/10W	C537	1-119-858-11	FILM 0.068UF	5.00% 250V
*****				C538	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
* 8-933-440-00 D BOARD, COMPLETE				C539	1-163-017-00	CERAMIC CHIP 0.0047UF	10.00% 50V
*****				C540	1-104-987-11	MYLAR 0.001UF	10.00% 200V
3-710-578-01 COVER, VOLUME, 6 MOLD (RV901)				C541	1-164-161-11	CERAMIC CHIP 0.0022UF	10.00% 50V
4-070-828-01 INSULATING SHEET (Q515)				C542	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
4-070-829-02 INSULATING SHEET (IC502)				C543	1-135-350-11	FILM 3600PF	3% 1.8KV
4-070-830-01 INSULATING SHEET (IC701)				C544	1-117-953-11	FILM 0.033UF	5.00% 400V
4-077-445-01 HEAT SINK (D5) (R918, Q905, Q906)				C545	1-107-597-11	CERAMIC 22PF	5.00% 500V
4-382-854-11 SCREW (M3X10), P, SW (+) (IC701, Q704, Q705, Q901, Q905, Q906, D508, R918)				C546	1-107-444-11	CERAMIC 100PF	5.00% 2KV
7-685-647-79 SCREW +BVTP 3X10 TYPE2 TT(B) (IC502, Q508, Q515, D511, R547)				C547	1-130-061-91	FILM 0.0015UF	5.00% 630V
<CAPACITOR>				C548	1-162-134-11	CERAMIC 470PF	10.00% 2KV
C501	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C549	1-130-495-00	MYLAR 0.1UF	5.00% 50V
C502	1-136-169-00	MYLAR 0.22UF	5.00% 50V	C551	1-163-017-00	CERAMIC CHIP 0.0047UF	10.00% 50V
C503	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C552	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C504	1-163-017-00	CERAMIC CHIP 0.0047UF	10.00% 50V	C554	1-107-444-11	CERAMIC 100PF	5.00% 2KV
C505	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C555	1-107-683-11	ELECT 2.2UF	250V
C506	1-137-194-81	MYLAR 0.47UF	5.00% 50V	C556	1-117-892-11	FILM 2UF	5.00% 250V
C507	1-136-169-00	MYLAR 0.22UF	5.00% 50V	C557	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C508	1-126-965-11	ELECT 22UF	20.00% 50V	C558	1-104-665-11	ELECT 100UF	20.00% 25V
C509	1-115-522-11	FILM 1UF	5.00% 250V	C559	1-107-649-11	ELECT 2.2UF	20.00% 250V
C510	1-117-398-11	ELECT 33UF	20.00% 250V	C560	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C511	1-163-113-00	CERAMIC CHIP 68PF	5.00% 50V	C561	1-104-664-11	ELECT 47UF	20.00% 25V
C512	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V	C562	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C513	1-163-017-00	CERAMIC CHIP 0.0047UF	10.00% 50V	C564	1-126-960-11	ELECT 1UF	20.00% 50V
C514	1-106-375-12	MYLAR 0.022UF	200V	C565	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C515	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C566	1-137-150-11	MYLAR 0.01UF	5.00% 50V
C516	1-126-934-11	ELECT 220UF	20.00% 16V	C567	1-164-161-11	CERAMIC CHIP 0.0022UF	10.00% 50V
C517	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C568	1-104-760-11	CERAMIC CHIP 0.047UF	10.00% 50V
C518	1-137-194-81	MYLAR 0.47UF	5.00% 50V	C569	1-126-933-11	ELECT 100UF	20.00% 16V
C519	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C571	1-163-227-11	CERAMIC CHIP 10PF	0.50PF 50V
C520	1-107-914-11	ELECT 1000UF	20.00% 25V	C572	1-163-009-11	CERAMIC CHIP 0.001UF	10.00% 50V
C521	1-115-518-11	FILM 0.47UF	5.00% 250V	C573	1-106-375-12	MYLAR 0.022UF	200V
C522	1-137-368-11	MYLAR 0.0047UF	5.00% 50V	C575	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C523	1-137-368-11	MYLAR 0.0047UF	5.00% 50V	C576	1-164-222-11	CERAMIC CHIP 0.22UF	25V
C524	1-163-133-00	CERAMIC CHIP 470PF	5.00% 50V	C577	1-126-964-11	ELECT 10UF	20.00% 50V
C525	1-104-760-11	CERAMIC CHIP 0.047UF	10.00% 50V	C579	1-135-932-91	FILM 0.015UF	5% 400V
C526	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C580	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C527	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C701	1-128-560-11	ELECT 22UF	20.00% 100V
C528	1-117-412-11	FILM 0.24UF	5.00% 250V	C702	1-128-562-11	ELECT 47UF	20.00% 100V
C529	1-104-665-11	ELECT 100UF	20.00% 25V	C703	1-104-331-11	CERAMIC 0.0022UF	10.00% 1KV
C530	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C704	1-104-568-11	CERAMIC 470PF	10.00% 2KV
C531	1-117-660-21	FILM 0.12UF	5.00% 250V	C706	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C532	1-163-009-11	CERAMIC CHIP 0.001UF	10.00% 50V	C707	1-130-495-00	MYLAR 0.1UF	5.00% 50V
C533	1-107-889-11	ELECT 220UF	20.00% 25V	C708	1-126-942-61	ELECT 1000UF	20.00% 25V
C534	1-107-889-11	ELECT 220UF	20.00% 25V	C709	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C535	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C710	1-107-894-11	ELECT 220UF	20.00% 35V
C536	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C711	1-163-019-00	CERAMIC CHIP 0.0068UF	10.00% 50V
C537	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C712	1-137-401-11	MYLAR 0.22UF	10.00% 100V
C538	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C713	1-126-942-61	ELECT 1000UF	20.00% 25V
C539	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C715	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C540	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C720	1-126-964-11	ELECT 10UF	20.00% 50V
C541	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C901	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C542	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C902	1-104-665-11	ELECT 100UF	20.00% 25V
C543	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C903	1-126-964-11	ELECT 10UF	20.00% 50V



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C904	1-104-570-11	CERAMIC	0.001UF	10.00%	2KV		
C905	1-163-127-00	CERAMIC CHIP	270PF	5.00%	50V		
C906	1-117-623-11	FILM	1500PF	3.00%	1.2KV		
C907	1-163-253-11	CERAMIC CHIP	120PF	5.00%	50V		
C908	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V		
C909	1-126-934-11	ELECT	220UF	20.00%	16V		
C910	1-126-962-11	ELECT	3.3UF	20.00%	50V		
C911	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V		
C912	1-106-383-00	MYLAR	0.047UF	10.00%	200V		
C913	1-119-748-11	ELECT	33UF	20.00%	400V		
C914	1-106-383-00	MYLAR	0.047UF	10.00%	200V		
C915	1-136-169-00	MYLAR	0.22UF	5.00%	50V		
C916	1-117-630-11	FILM	3000PF	3.00%	1.2KV		
C917	1-117-665-11	FILM	0.33UF	5.00%	250V		
C918	1-106-359-00	MYLAR	0.0047UF	10.00%	100V		
C919	1-115-350-51	CERAMIC	0.0047UF		2KV		
C920	1-137-372-11	MYLAR	0.022UF	5.00%	50V		
C921	1-137-401-11	MYLAR	0.22UF	10.00%	100V		
C922	1-106-220-00	MYLAR	0.1UF	10.00%	100V		
C923	1-106-355-12	MYLAR	0.0033UF	10.00%	200V		
C924	1-106-220-00	MYLAR	0.1UF	10.00%	100V		
C925	1-126-967-11	ELECT	47UF	20.00%	50V		
C926	1-104-664-11	ELECT	47UF	20.00%	25V		
C927	1-163-243-11	CERAMIC CHIP	47PF	5.00%	50V		
C928	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V		
C929	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V		
C930	1-163-227-11	CERAMIC CHIP	10PF	0.50PF	50V		
C931	1-126-964-11	ELECT	10UF	20.00%	50V		
C932	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V		
C933	1-126-960-11	ELECT	1UF	20.00%	50V		
C935	1-163-275-11	CERAMIC CHIP	0.001UF	5.00%	50V		
C936	1-163-113-00	CERAMIC CHIP	68PF	5.00%	50V		
C946	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V		
<CONNECTOR>							
CN501*	1-564-509-11	PLUG, CONNECTOR	6P				
CN502*	1-564-510-11	PLUG, CONNECTOR	7P				
CN503*	1-508-879-11	BASE POST					
CN504	1-784-786-11	CONNECTOR, FFC	25P				
CN505	1-784-786-11	CONNECTOR, FFC	25P				
CN506	1-764-101-11	PIN, CONNECTOR (PC BOARD)	2P				
CN508*	1-764-333-11	PLUG, CONNECTOR	10P				
CN509*	1-778-955-11	PIN, CONNECTOR (PC BOARD)	10P				
<DIODE>							
D504	8-719-988-61	DIODE	1SS355TE-17				
D505	8-719-110-36	ZENER DIODE	RD13ES-B2				
D506	8-719-991-33	DIODE	1SS133T-77				
D507	8-719-063-89	DIODE	YG911S3R				
D508	8-719-031-79	DIODE	D5SC4M				
D509	8-719-991-33	DIODE	1SS133T-77				
D510	8-719-109-85	ZENER DIODE	RD5.1ESB2				
D511	8-719-066-36	DIODE	FMQ-G5GS				
D512	8-719-988-61	DIODE	1SS355TE-17				
D513	8-719-991-33	DIODE	1SS133T-77				
D514	8-719-991-33	DIODE	1SS133T-77				
D515	8-719-109-89	ZENER DIODE	RD5.6ESB2				
D516	8-719-991-33	DIODE	1SS133T-77				
D517	8-719-951-30	DIODE	ERA91-02				
D519	8-719-988-61	DIODE	1SS355TE-17				
D520	8-719-988-61	DIODE	1SS355TE-17				
D522	8-719-988-61	DIODE	1SS355TE-17				
D701	8-719-991-33	DIODE	1SS133T-77				
D702	8-719-991-33	DIODE	1SS133T-77				
D703	8-719-991-33	DIODE	1SS133T-77				
D704	1-216-295-91	SHORT	0				
D706	8-719-979-58	DIODE	EGP10D				
D707	8-719-109-85	ZENER DIODE	RD5.1ESB2				
D708	8-719-908-03	DIODE	GP08D				
D709	8-719-948-45	DIODE	ERA22-08				
D710	8-719-109-85	ZENER DIODE	RD5.1ESB2				
D901	8-719-991-33	DIODE	1SS133T-77				
D902	8-719-110-31	ZENER DIODE	RD12ES-B2				
D904	8-719-988-61	DIODE	1SS355TE-17				
D905	8-719-110-36	ZENER DIODE	RD13ES-B2				
D906	8-719-063-89	DIODE	YG911S3R				
D907	8-719-930-97	ZENER DIODE	HZS16NB2TD				
D908	8-719-018-82	DIODE	RGP02-20EL-6394				
D909	8-719-930-97	ZENER DIODE	HZS16NB2TD				
D910	8-719-991-33	DIODE	1SS133T-77				
D911	8-719-018-82	DIODE	RGP02-20EL-6394				
D912	8-719-979-58	DIODE	EGP10D				
D913	8-719-991-33	DIODE	1SS133T-77				
D915	8-719-110-67	ZENER DIODE	RD27ES-B2				
D917	8-719-988-61	DIODE	1SS355TE-17				
D918	8-719-991-33	DIODE	1SS133T-77				
D919	8-719-991-33	DIODE	1SS133T-77				
D920	8-719-109-81	ZENER DIODE	RD4.7ES-B2				
D921	8-719-991-33	DIODE	1SS133T-77				
D922	8-719-018-82	DIODE	RGP02-20EL-6394				
D923	8-719-988-61	DIODE	1SS355TE-17				
D925	8-719-018-82	DIODE	RGP02-20EL-6394				
<FERRITE BEAD>							
FB501	1-410-397-21	FERRITE	1.1UH				
FB502	1-410-397-21	FERRITE	1.1UH				
FB503	1-412-911-11	FERRITE	1.1UH				
FB504	1-412-911-11	FERRITE	1.1UH				
FB505	1-412-911-11	FERRITE	1.1UH				
FB506	1-410-397-21	FERRITE	1.1UH				
FB507	1-410-397-21	FERRITE	1.1UH				
FB901	1-410-397-21	FERRITE	1.1UH				
<IC>							
IC501	8-759-585-82	IC	BA9759F-E2				
IC502	8-759-803-42	IC	LA6500-FA				
IC503	8-759-058-50	IC	XRA10324AF				
IC504	8-759-643-66	IC	uPC2912HF(12)				
IC701	8-759-444-82	IC	LA7841L				
IC901	8-759-585-81	IC	BA9758FS-E2				



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
		<COIL>				<RESISTOR>	
L501	1-412-537-31	INDUCTOR 100UH		R501	1-215-884-11	METAL OXIDE 47	5% 2W
L502	1-406-671-11	INDUCTOR 1MH		R502	1-216-059-00	RES-CHIP 2.7K	5% 1/10W
L503	1-406-671-11	INDUCTOR 1MH		R503	1-216-049-91	RES-CHIP 1K	5% 1/10W
L504	1-406-675-11	INDUCTOR 4.7MH		R504	1-216-025-91	RES-CHIP 100	5% 1/10W
L505	1-416-401-31	INDUCTOR 5MH		R505	1-216-049-91	RES-CHIP 1K	5% 1/10W
L506	1-406-671-11	INDUCTOR 1MH		R506	1-216-049-91	RES-CHIP 1K	5% 1/10W
L901	1-412-537-31	INDUCTOR 100UH		R507	1-216-097-91	RES-CHIP 100K	5% 1/10W
L902	1-406-660-41	INDUCTOR 15UH		R508	1-249-409-11	CARBON 220	5% 1/4W
		<TRANSISTOR>		R509	1-216-049-91	RES-CHIP 1K	5% 1/10W
Q501	8-729-048-49	TRANSISTOR 2SK3262-01MR-F119		R510	1-216-675-91	METAL CHIP 10K	0.50%1/10W
Q502	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R511	1-216-065-91	RES-CHIP 4.7K	5% 1/10W
Q503	8-729-901-97	TRANSISTOR 2SA1036K-Q		R512	1-215-453-00	METAL 22K	1% 1/4W
Q504	8-729-901-87	TRANSISTOR 2SC2411K-CQ		R513	1-216-025-91	RES-CHIP 100	5% 1/10W
Q505	8-729-901-97	TRANSISTOR 2SA1036K-Q		R514	1-216-097-91	RES-CHIP 100K	5% 1/10W
Q506	8-729-048-49	TRANSISTOR 2SK3262-01MR-F119		R515	1-216-049-91	RES-CHIP 1K	5% 1/10W
Q507	8-729-048-49	TRANSISTOR 2SK3262-01MR-F119		R516	1-216-049-91	RES-CHIP 1K	5% 1/10W
Q508	8-729-048-53	TRANSISTOR 2SJ569LS-CB11		R517	1-216-685-11	METAL CHIP 27K	0.50%1/10W
Q509	8-729-820-73	TRANSISTOR 2SC3746		R518	1-216-691-11	METAL CHIP 47K	0.50%1/10W
Q510	8-729-048-49	TRANSISTOR 2SK3262-01MR-F119		R519	1-216-081-00	RES-CHIP 22K	5% 1/10W
Q511	8-729-048-49	TRANSISTOR 2SK3262-01MR-F119		R520	1-247-791-91	CARBON 22	5% 1/4W
Q512	8-729-048-49	TRANSISTOR 2SK3262-01MR-F119		R521	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W
Q513	8-729-048-49	TRANSISTOR 2SK3262-01MR-F119		R522	1-249-437-11	CARBON 47K	5% 1/4W
Q514	8-729-140-50	TRANSISTOR 2SC3209LK		R523	1-216-033-00	RES-CHIP 220	5% 1/10W
Q515	8-729-048-48	TRANSISTOR 2SC5570(LBSONY)		R524	1-216-025-91	RES-CHIP 100	5% 1/10W
Q516	8-729-024-95	TRANSISTOR 2SB1565EF		R525	1-216-065-91	RES-CHIP 4.7K	5% 1/10W
Q517	8-729-048-49	TRANSISTOR 2SK3262-01MR-F119		R526	1-216-097-91	RES-CHIP 100K	5% 1/10W
Q518	8-729-019-01	TRANSISTOR 2SD2394-EF		R527	1-216-673-11	METAL CHIP 8.2K	0.50%1/10W
Q519	8-729-033-25	TRANSISTOR DTC114GKA		R528	1-216-677-11	METAL CHIP 12K	0.50%1/10W
Q520	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R529	1-216-057-00	RES-CHIP 2.2K	5% 1/10W
Q521	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R530	1-216-025-91	RES-CHIP 100	5% 1/10W
Q522	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R531	1-216-097-91	RES-CHIP 100K	5% 1/10W
Q523	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R532	1-215-860-11	METAL OXIDE 33	5% 1W
Q524	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R533	1-211-796-11	FUSIBLE 1	5% 1/2W
Q525	8-729-048-49	TRANSISTOR 2SK3262-01MR-F119		R534	1-216-689-11	METAL CHIP 39K	0.50%1/10W
Q526	8-729-027-35	TRANSISTOR DTA143TKA-T146		R535	1-216-065-91	RES-CHIP 4.7K	5% 1/10W
Q527	8-729-048-49	TRANSISTOR 2SK3262-01MR-F119		R536	1-216-683-11	METAL CHIP 22K	0.50%1/10W
Q701	8-729-800-32	TRANSISTOR 2SC2362K-G		R537	1-249-437-11	CARBON 47K	5% 1/4W
Q702	8-729-178-43	TRANSISTOR 2SC2784		R538	1-216-025-91	RES-CHIP 100	5% 1/10W
Q703	8-729-204-91	TRANSISTOR 2SA1049-GR		R539	1-216-097-91	RES-CHIP 100K	5% 1/10W
Q704	8-729-207-82	TRANSISTOR 2SC3421-Y		R540	1-215-909-11	METAL OXIDE 47	5% 3W
Q705	8-729-207-89	TRANSISTOR 2SA1358-Y		R541	1-216-295-91	SHORT 0	
Q706	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R542	1-249-437-11	CARBON 47K	5% 1/4W
Q707	8-729-046-80	TRANSISTOR 2SC4634LS-CB11		R543	1-216-677-11	METAL CHIP 12K	0.50%1/10W
Q901	8-729-044-21	TRANSISTOR 2SK2655-01R-F165		R544	1-216-025-91	RES-CHIP 100	5% 1/10W
Q902	8-729-900-53	TRANSISTOR DTC114EK		R545	1-216-097-91	RES-CHIP 100K	5% 1/10W
Q903	8-729-901-87	TRANSISTOR 2SC2411K-CQ		R546	1-219-728-11	METAL 0.22	10% 5W
Q904	8-729-901-97	TRANSISTOR 2SA1036K-Q		R547	1-219-677-11	METAL 1.8	5% 10W
Q905	8-729-048-53	TRANSISTOR 2SJ569LS-CB11		R548	1-249-437-11	CARBON 47K	5% 1/4W
Q906	8-729-044-21	TRANSISTOR 2SK2655-01R-F165		R549	1-260-288-11	CARBON 0.47	5% 1/2W
Q907	8-729-033-26	TRANSISTOR DTA114GKAT146		R550	1-260-288-11	CARBON 0.47	5% 1/2W
Q908	8-729-033-25	TRANSISTOR DTC114GKA		R551	1-216-025-91	RES-CHIP 100	5% 1/10W
Q909	8-729-900-53	TRANSISTOR DTC114EK		R552	1-216-097-91	RES-CHIP 100K	5% 1/10W
Q910	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R553	1-249-409-11	CARBON 220	5% 1/4W
				R554	1-216-674-11	METAL CHIP 9.1K	0.50%1/10W
				R555	1-216-675-91	METAL CHIP 10K	0.50%1/10W

GDM-FW900



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R556	1-216-683-11	METAL CHIP	22K	0.50%	1/10W		
R557	1-216-423-11	METAL OXIDE	27	5%	1W		
R558	1-249-437-11	CARBON	47K	5%	1/4W		
R559	1-216-073-00	RES-CHIP	10K	5%	1/10W		
R560	1-216-675-91	METAL CHIP	10K	0.50%	1/10W		
R561	1-215-443-00	METAL	8.2K	1%	1/4W		
R562	1-216-677-11	METAL CHIP	12K	0.50%	1/10W		
R563	1-216-025-91	RES-CHIP	100	5%	1/10W		
R564	1-216-677-11	METAL CHIP	12K	0.50%	1/10W		
R565	1-216-097-91	RES-CHIP	100K	5%	1/10W		
R566	1-216-685-11	METAL CHIP	27K	0.50%	1/10W		
R567	1-214-840-00	METAL	100	1%	1/2W		
R568	1-216-665-11	METAL CHIP	3.9K	0.50%	1/10W		
R569	1-216-691-11	METAL CHIP	47K	0.50%	1/10W		
R570	1-260-332-51	CARBON	2.2K	5%	1/2W		
R572	1-216-385-11	METAL OXIDE	0.47	5%	3W		
R573	1-249-437-11	CARBON	47K	5%	1/4W		
R574	1-216-097-91	RES-CHIP	100K	5%	1/10W		
R575	1-216-672-11	METAL CHIP	7.5K	0.50%	1/10W		
R576	1-215-869-11	METAL OXIDE	1K	5%	1W		
R577	1-260-312-11	CARBON	47	5%	1/2W		
R578	1-216-049-91	RES-CHIP	1K	5%	1/10W		
R579	1-216-049-91	RES-CHIP	1K	5%	1/10W		
R580	1-214-840-00	METAL	100	1%	1/2W		
R581	1-260-308-11	CARBON	22	5%	1/2W		
R582	1-214-840-00	METAL	100	1%	1/2W		
R583	1-249-437-11	CARBON	47K	5%	1/4W		
R584	1-249-437-11	CARBON	47K	5%	1/4W		
R585	1-216-073-00	RES-CHIP	10K	5%	1/10W		
R586	1-216-683-11	METAL CHIP	22K	0.50%	1/10W		
R587	1-215-913-11	METAL OXIDE	220	5%	3W		
R588	1-260-085-11	CARBON	68	5%	1/2W		
R589	1-216-057-00	RES-CHIP	2.2K	5%	1/10W		
R590	1-216-057-00	RES-CHIP	2.2K	5%	1/10W		
R591	1-247-807-31	CARBON	100	5%	1/4W		
R592	1-215-913-11	METAL OXIDE	220	5%	3W		
R593	1-216-073-00	RES-CHIP	10K	5%	1/10W		
R594	1-216-683-11	METAL CHIP	22K	0.50%	1/10W		
R595	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W		
R597	1-216-073-00	RES-CHIP	10K	5%	1/10W		
R598	1-216-675-91	METAL CHIP	10K	0.50%	1/10W		
R599	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W		
R701	1-216-049-91	RES-CHIP	1K	5%	1/10W		
R702	1-249-393-11	CARBON	10	5%	1/4W		
R703	1-215-456-00	METAL	30K	1%	1/4W		
R704	1-216-651-11	METAL CHIP	1K	0.50%	1/10W		
R705	1-249-413-11	CARBON	470	5%	1/4W		
R706	1-249-389-11	CARBON	4.7	5%	1/4W		
R707	1-249-389-11	CARBON	4.7	5%	1/4W		
R708	1-215-881-11	METAL OXIDE	15	5%	2W		
R709	1-216-049-91	RES-CHIP	1K	5%	1/10W		
R710	1-216-073-00	RES-CHIP	10K	5%	1/10W		
R711	1-216-049-91	RES-CHIP	1K	5%	1/10W		
R713	1-216-059-00	RES-CHIP	2.7K	5%	1/10W		
R714	1-216-057-00	RES-CHIP	2.2K	5%	1/10W		
R715	1-249-389-11	CARBON	4.7	5%	1/4W		
R716	1-216-689-11	RES-CHIP	39K	5%	1/10W		
R717	1-216-073-00	RES-CHIP	10K	5%	1/10W		
R718	1-216-681-11	METAL CHIP	18K	0.50%	1/10W		
R719	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W		
R720	1-216-073-00	RES-CHIP	10K	5%	1/10W		
R721	1-216-073-00	RES-CHIP	10K	5%	1/10W		
R722	1-260-292-11	CARBON	1	5%	1/2W		
R723	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W		
R724	1-216-057-00	RES-CHIP	2.2K	5%	1/10W		
R725	1-214-798-21	METAL	1.8	1%	1/2W		
R726	1-214-798-21	METAL	1.8	1%	1/2W		
R727	1-249-381-11	CARBON	1	5%	1/4W		
R728	1-215-865-11	METAL OXIDE	220	5%	1W		
R729	1-260-292-11	CARBON	1	5%	1/2W		
R730	1-216-683-11	METAL CHIP	22K	0.50%	1/10W		
R731	1-216-668-11	METAL CHIP	5.1K	0.50%	1/10W		
R732	1-219-510-11	CARBON	470K	5%	1/2W		
R901	1-216-097-91	RES-CHIP	100K	5%	1/10W		
R902	1-216-117-00	RES-CHIP	680K	5%	1/10W		
R903	1-216-089-91	RES-CHIP	47K	5%	1/10W		
R904	1-216-033-00	RES-CHIP	220	5%	1/10W		
R905	1-216-097-91	RES-CHIP	100K	5%	1/10W		
R906	1-216-033-00	RES-CHIP	220	5%	1/10W		
R907	1-216-081-00	RES-CHIP	22K	5%	1/10W		
R908	1-216-399-00	METAL OXIDE	6.8	5%	3W		
R909	1-216-049-91	RES-CHIP	1K	5%	1/10W		
R910	1-216-065-91	RES-CHIP	4.7K	5%	1/10W		
R911	1-216-041-00	RES-CHIP	470	5%	1/10W		
R912	1-216-049-91	RES-CHIP	1K	5%	1/10W		
R914	1-247-791-91	CARBON	22	5%	1/4W		
R915	1-216-065-91	RES-CHIP	4.7K	5%	1/10W		
R916	1-249-397-11	CARBON	22	5%	1/4W		
R917	1-211-824-71	FUSIBLE	220	5%	1/2W		
R918	1-219-727-11	METAL	68	5%	10W		
R919	1-219-748-11	CARBON	4.7K	5%	1/2W		
R920	1-216-089-91	RES-CHIP	47K	5%	1/10W		
R921	1-215-408-00	METAL	300	1%	1/4W		
R922	1-249-389-11	CARBON	4.7	5%	1/4W		
R923	1-218-760-11	METAL CHIP	220K	0.50%	1/10W		
R924	1-216-073-00	RES-CHIP	10K	5%	1/10W		
R925	1-220-825-11	CARBON	330K	5%	1/2W		
R926	1-219-746-11	CARBON	1K	5%	1/2W		
R927	1-219-746-11	CARBON	1K	5%	1/2W		
R928	1-216-668-11	METAL CHIP	5.1K	0.50%	1/10W		
R929	1-216-691-11	METAL CHIP	47K	0.50%	1/10W		
R930	1-216-653-11	METAL CHIP	1.2K	0.50%	1/10W		
R931	1-216-651-11	METAL CHIP	1K	0.50%	1/10W		
R932	1-216-665-11	METAL CHIP	3.9K	0.50%	1/10W		
R933	1-216-687-11	METAL CHIP	33K	0.50%	1/10W		
R934	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W		
R935	1-216-089-91	RES-CHIP	47K	5%	1/10W		
R936	1-216-065-91	RES-CHIP	4.7K	5%	1/10W		
R937	1-216-065-91	RES-CHIP	4.7K	5%	1/10W		
R938	1-216-295-91	SHORT	0				
R939	1-216-049-91	RES-CHIP	1K	5%	1/10W		
R940	1-216-073-00	RES-CHIP	10K	5%	1/10W		

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.

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.

GDM-FW900



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R941	1-216-025-91	RES-CHIP	100 5% 1/10W				
R942	1-216-073-00	RES-CHIP	10K 5% 1/10W				
R943	1-216-065-91	RES-CHIP	4.7K 5% 1/10W				
R945	1-216-025-91	RES-CHIP	100 5% 1/10W				
R1501	1-216-049-91	RES-CHIP	1K 5% 1/10W				
R1502	1-216-033-00	RES-CHIP	220 5% 1/10W				
R1503	1-216-681-11	METAL CHIP	18K 0.50% 1/10W				
R1504	1-216-295-91	SHORT	0				
R1505	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W				
R1506	1-216-025-91	RES-CHIP	100 5% 1/10W				
R1507	1-216-097-91	RES-CHIP	100K 5% 1/10W				
R1510	1-216-073-00	RES-CHIP	10K 5% 1/10W				
R1515	1-215-909-11	METAL OXIDE	47 5% 3W				
R1518	1-216-025-91	RES-CHIP	100 5% 1/10W				
R1587	1-249-437-11	CARBON	47K 5% 1/4W				
R1588	1-216-097-91	RES-CHIP	100K 5% 1/10W				
R1589	1-216-025-91	RES-CHIP	100 5% 1/10W				
		<VARIABLE RESISTOR>					
\boxtimes RV901	\triangle 1-241-767-21	RES, ADJ, CERMET 100K (HV ADJ)					
		<RELAY>					
RY501	1-755-198-11	RELAY					
		<SPARK GAP>					
SG901	1-517-499-21	GAP, SPARK					
SG902	1-519-422-11	GAP, SPARK					
SG903	1-519-422-11	GAP, SPARK					
		<TRANSFORMER>					
T501	1-435-070-11	TRANSFORMER, HORIZONTAL DRIVE					
T502	1-429-301-11	TRANSFORMER, FERRITE (HCT)					
T503	1-426-998-11	TRANSFORMER, FERRITE (HST)					
T701	1-435-719-11	TRANSFORMER, FERRITE (DFT)					
T901	1-416-402-11	INDUCTOR 500UH					
T902	\triangle 1-453-348-11	TRANSFORMER ASSY, FLYBACK (NX-4504//J1D4)					
		<THERMISTOR>					
TH501	1-807-796-11	THERMISTOR					
TH502	1-807-796-11	THERMISTOR					

				* 8-933-441-00	G BOARD, COMPLETE		

				4-382-854-11	SCREW (M3X10), P, SW (+)		
					(IC652, IC654, Q620, Q621, Q630, Q651, D610, D652, D680)		
				7-682-950-01	SCREW +PSW 3X12 (IC610)		
					<CAPACITOR>		
				C601 \triangle 1-113-513-11	FILM 1UF 20.00% 275V		
				C602 \triangle 1-113-513-11	FILM 1UF 20.00% 275V		
				C603 \triangle 1-113-900-51	CERAMIC 470PF 10.00% 250V		
				C604 \triangle 1-113-900-51	CERAMIC 470PF 10.00% 250V		
				C605 \triangle 1-113-926-91	CERAMIC 0.0047UF 250V		
				C606 \triangle 1-113-926-91	CERAMIC 0.0047UF 250V		
				C607 \triangle 1-113-900-51	CERAMIC 470PF 10.00% 250V		
				C608	1-164-004-11 CERAMIC CHIP 0.1UF 10.00% 25V		
				C609	1-164-004-11 CERAMIC CHIP 0.1UF 10.00% 25V		
				C610	1-117-849-11 ELECT 330UF 20.00% 450V		
				C611	1-137-479-11 MYLAR 1UF 10.00% 400V		
				C612	1-136-169-00 MYLAR 0.22UF 5.00% 50V		
				C613	1-126-967-11 ELECT 47UF 20.00% 50V		
				C614	1-163-251-11 CERAMIC CHIP 100PF 5.00% 50V		
				C629	1-137-150-11 MYLAR 0.01UF 5.00% 50V		
				C630	1-163-005-11 CERAMIC CHIP 470PF 10.00% 50V		
				C631	1-107-910-11 ELECT 100UF 20.00% 50V		
				C633	1-164-161-11 CERAMIC CHIP 0.0022UF 10.00% 50V		
				C634	1-163-009-11 CERAMIC CHIP 0.001UF 10.00% 50V		
				C639	1-135-833-21 FILM 18000PF 3% 800V		
				C640	1-126-964-11 ELECT 10UF 20.00% 50V		
				C641	1-162-115-00 CERAMIC 330PF 10.00% 1KV		
				C642	1-136-165-00 MYLAR 0.1UF 5.00% 50V		
				C643	1-162-115-00 CERAMIC 330PF 10.00% 1KV		
				C644	1-163-009-11 CERAMIC CHIP 0.001UF 10.00% 50V		
				C645	1-136-479-11 FILM 0.001UF 2.00% 50V		
				C646	1-126-961-11 ELECT 2.2UF 20.00% 50V		
				C647	1-126-964-11 ELECT 10UF 20.00% 50V		
				C648	1-126-967-11 ELECT 47UF 20.00% 50V		
				C649	1-163-009-11 CERAMIC CHIP 0.001UF 10.00% 50V		
				C650	1-107-656-11 ELECT 100UF 20.00% 250V		
				C651	1-107-651-11 ELECT 4.7UF 20.00% 250V		
				C652	1-128-563-11 ELECT 100UF 20.00% 100V		
				C653	1-128-581-11 ELECT 4.7UF 20.00% 100V		
				C654	1-111-070-51 ELECT 2200UF 20.00% 25V		
				C655	1-104-664-11 ELECT 47UF 20.00% 25V		
				C656	1-111-070-51 ELECT 2200UF 20.00% 25V		
				C657	1-104-664-11 ELECT 47UF 20.00% 25V		
				C658	1-126-927-11 ELECT 2200UF 20.00% 10V		
				C659	1-128-339-11 ELECT 2200UF 20.00% 10V		
				C661	1-102-244-00 CERAMIC 220PF 10.00% 500V		
				C662	1-137-150-11 MYLAR 0.01UF 5.00% 50V		
				C665	1-107-909-11 ELECT 47UF 20.00% 10V		
				C667	1-107-909-11 ELECT 47UF 20.00% 16V		
				C680	1-115-747-51 ELECT 0.0068F 20.00% 10V		
				C681	1-104-664-11 ELECT 47UF 20.00% 10V		



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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C682	1-137-368-11	MYLAR	0.0047UF	5.00%	50V	<IC>	
C683	1-104-664-11	ELECT	47UF	20.00%	10V		
C684	1-128-526-11	ELECT	100UF	20.00%	10V	IC610	8-749-015-27 IC MZ1540
C685	1-128-526-11	ELECT	100UF	20.00%	10V	IC620	8-759-670-30 IC MCZ3001D
						IC630	8-759-535-32 IC FA13842P
C686	1-104-664-11	ELECT	47UF	20.00%	10V	IC650	8-749-012-49 IC DM-57N
C692	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V	IC651	8-759-592-79 IC BA00AST-V5
						IC652	8-759-496-15 IC BA05ST-V5
						IC653	8-759-450-47 IC BA05T
						IC654	8-759-643-66 IC uPC2912HF(12)
						IC680	8-759-321-95 IC HA17431PA
						<COIL>	
						L610	1-419-585-11 INDUCTOR 230UH
						L611	1-419-726-11 INDUCTOR 100UH
						L650	1-414-742-21 INDUCTOR 22UH
						L651	1-414-742-21 INDUCTOR 22UH
						L652	1-406-661-21 INDUCTOR 22UH
						L653	1-406-661-21 INDUCTOR 22UH
						L680	1-406-661-21 INDUCTOR 22UH
						<PHOTO COUPLER>	
						PH610	8-749-010-64 PHOTO COUPLER PC123F2
						PH620	8-749-010-64 PHOTO COUPLER PC123F2
						PH630	8-749-010-64 PHOTO COUPLER PC123F2
						<IC LINK>	
						PS650	Δ 1-533-593-31 LINK, IC (2A/90V AC, 60V DC)
						PS680	Δ 1-533-596-31 LINK, IC (4A/90V AC, 60V DC)
						<TRANSISTOR>	
						Q610	8-729-821-04 TRANSISTOR 2SA1317-STU
						Q611	8-729-026-49 TRANSISTOR 2SA1037AK-T146-R
						Q612	8-729-120-28 TRANSISTOR 2SC1623-L5L6
						Q613	8-729-027-23 TRANSISTOR DTA114EKA-T146
						Q620	8-729-053-36 TRANSISTOR 2SK2640-010MR
						Q621	8-729-053-36 TRANSISTOR 2SK2640-010MR
						Q630	8-729-045-03 TRANSISTOR 2SK2647-01MR-F91
						Q631	8-729-041-66 TRANSISTOR 2SC4015TV2
						Q632	8-729-041-66 TRANSISTOR 2SC4015TV2
						Q633	8-729-120-28 TRANSISTOR 2SC1623-L5L6
						Q652	8-729-120-28 TRANSISTOR 2SC1623-L5L6
						Q653	8-729-120-28 TRANSISTOR 2SC1623-L5L6
						Q667	8-729-026-49 TRANSISTOR 2SA1037AK-T146-R
						Q671	8-729-026-49 TRANSISTOR 2SA1037AK-T146-R
						Q691	8-729-423-33 TRANSISTOR 2SC3311A-QRSTA
						<RESISTOR>	
						R601	Δ 1-220-825-91 CARBON 330K 5% 1/2W
						R602	1-216-465-11 METAL OXIDE 27K 5% 2W
						R603	1-247-895-91 CARBON 470K 5% 1/4W
						R604	1-216-113-00 RES-CHIP 470K 5% 1/10W
						R605	1-216-113-00 RES-CHIP 470K 5% 1/10W
						<CONNECTOR>	
						CN601*	1-580-689-11 PIN, CONNECTOR (PC BOARD) 4P
						CN602*	1-691-960-11 PIN, CONNECTOR (PC BOARD) 3P
						CN603*	1-691-960-11 PIN, CONNECTOR (PC BOARD) 3P
						CN605	1-900-251-20 CONNECTOR ASSY
						CN650*	1-564-510-11 PLUG, CONNECTOR 7P
						CN651*	1-564-507-11 PLUG, CONNECTOR 4P
						CN652*	1-564-512-11 PLUG, CONNECTOR 9P
						CN653*	1-564-509-11 PLUG, CONNECTOR 6P
						CN654*	1-764-333-11 PLUG, CONNECTOR 10P
						CN655*	1-564-506-11 PLUG, CONNECTOR 3P
						<DIODE>	
						D601	8-719-073-01 DIODE MA111-(K8.)S0
						D610	Δ 8-719-510-53 DIODE D4SB60L
						D613	8-719-304-63 DIODE RM11C
						D620	8-719-110-57 ZENER DIODE RD22ES-B2
						D630	8-719-110-57 ZENER DIODE RD22ES-B2
						D631	8-719-063-73 DIODE D1NL20U-TR
						D632	8-719-059-23 DIODE P6KE200AG23
						D633	8-719-069-63 DIODE ERB38-06V1
						D635	8-719-110-53 ZENER DIODE RD20ES-B2
						D637	8-719-911-19 DIODE 1SS119-25
						D640	8-719-069-63 DIODE ERB38-06V1
						D650	8-719-064-49 DIODE D4SBL40
						D651	8-719-063-73 DIODE D1NL20U-TR
						D652	8-719-052-91 DIODE D4SBS4-F
						D653	8-719-022-97 DIODE D2S4MF
						D654	8-719-022-97 DIODE D2S4MF
						D655	8-719-063-73 DIODE D1NL20U-TR
						D664	8-719-110-57 ZENER DIODE RD22ES-B2
						D680	8-719-989-87 DIODE YG802C09
						D681	8-719-109-89 ZENER DIODE RD5.6ES-B2
						D682	8-719-929-15 ZENER DIODE HZS9.1NB2
						D690	8-719-911-19 DIODE 1SS119-25
						D692	8-719-911-19 DIODE 1SS119-25
						<FUSE>	
						F601	Δ 1-576-233-11 FUSE (H.B.C.) (6.3A/250A)
						FH1	1-533-223-11 HOLDER, FUSE; F601
						FH2	1-533-223-11 HOLDER, FUSE; F601
						<FERRITE BEAD>	
						FB630	1-410-396-41 FERRITE 0.45UH
						FB632	Δ 1-410-397-31 FERRITE 1.1UH

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R606	1-216-097-91	RES-CHIP	100K 5% 1/10W	R681	1-216-073-00	RES-CHIP	10K 5% 1/10W
R607	1-216-097-91	RES-CHIP	100K 5% 1/10W	R682	1-216-049-91	RES-CHIP	1K 5% 1/10W
R608	1-216-073-00	RES-CHIP	10K 5% 1/10W	R684	1-216-041-00	RES-CHIP	470 5% 1/10W
R609	1-216-069-00	RES-CHIP	6.8K 5% 1/10W	R686	1-216-033-00	RES-CHIP	220 5% 1/10W
R610	1-217-152-00	METAL	0.33 10% 2W	R687	1-216-081-00	RES-CHIP	22K 5% 1/10W
R611	1-217-152-00	METAL	0.33 10% 2W	R688	1-215-473-00	METAL	150K 1% 1/4W
R612	1-249-425-11	CARBON	4.7K 5% 1/4W	R691	1-216-049-91	RES-CHIP	1K 5% 1/10W
R613	1-216-089-91	RES-CHIP	47K 5% 1/10W	R692	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R614	1-247-807-31	CARBON	100 5% 1/4W	R693	1-260-085-11	CARBON	68 5% 1/2W
R615	1-249-427-11	CARBON	6.8K 5% 1/4W	R694	1-216-073-00	RES-CHIP	10K 5% 1/10W
R616	1-216-671-11	METAL CHIP	6.8K 0.50% 1/10W	R695	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R617	1-249-417-11	CARBON	1K 5% 1/4W	R696	1-249-407-11	CARBON	150 5% 1/4W
R618	1-216-369-00	METAL OXIDE	1 5% 2W	R698	1-216-073-00	RES-CHIP	10K 5% 1/10W
R619	1-216-049-91	RES-CHIP	1K 5% 1/10W	R699	1-202-933-61	FUSIBLE	0.1 10% 1/2W
R620	1-202-933-61	FUSIBLE	0.1 10% 1/2W				
R621	1-219-513-11	CARBON	4.7M 5% 1/2W			<RELAY>	
R622	1-216-683-11	METAL CHIP	22K 0.50% 1/10W				
R623	1-216-671-11	METAL CHIP	6.8K 0.50% 1/10W	RY602	Δ 1-755-318-11	RELAY, POWER	
R624	1-216-627-11	METAL CHIP	100 0.50% 1/10W	RY603	Δ 1-755-067-21	RELAY	
R625	1-249-393-11	CARBON	10 5% 1/4W			<SPARK GAP>	
R626	1-249-429-11	CARBON	10K 5% 1/4W				
R627	1-249-393-11	CARBON	10 5% 1/4W			SG601	Δ 1-533-982-21 GAP, SPARK
R628	1-249-429-11	CARBON	10K 5% 1/4W				
R629	1-249-410-11	CARBON	270 5% 1/4W			<TRANSFORMER>	
R630	1-249-387-11	CARBON	3.3 5% 1/4W				
R631	1-247-807-31	CARBON	100 5% 1/4W			T601	Δ 1-435-710-11 TRANSFORMER, LINE FILTER
R632	1-215-381-00	METAL	22 1% 1/4W			T620	1-435-441-11 TRANSFORMER, CONVERTER (PIT)
R633	1-260-135-11	CARBON	1M 5% 1/2W			T630	1-433-895-41 TRANSFORMER, CONVERTER (SRT)
R634	1-260-135-11	CARBON	1M 5% 1/2W				
R635	1-216-465-11	METAL OXIDE	27K 5% 2W			<THERMISTOR>	
R636	1-249-433-11	CARBON	22K 5% 1/4W				
R639	1-215-485-00	METAL	470K 1% 1/4W			TH601	Δ 1-809-260-11 THERMISTOR, POWER
R640	1-215-481-00	METAL	330K 1% 1/4W			THP601	Δ 1-809-827-31 THERMISTOR, POSITIVE
R641	1-215-481-00	METAL	330K 1% 1/4W				
R642	1-216-695-11	METAL CHIP	68K 0.50% 1/10W			<VARISTOR>	
R643	1-216-381-11	METAL OXIDE	0.22 5% 3W				
R644	1-216-073-00	RES-CHIP	10K 5% 1/10W			VDR601	Δ 1-801-268-51 VARISTOR TNR14V471K660
R645	1-216-073-00	RES-CHIP	10K 5% 1/10W				
R649	1-249-437-11	CARBON	47K 5% 1/4W				
R650	1-216-057-00	RES-CHIP	2.2K 5% 1/10W				
R652	1-216-073-00	RES-CHIP	10K 5% 1/10W				
R664	1-216-073-00	RES-CHIP	10K 5% 1/10W				
R665	1-216-057-00	RES-CHIP	2.2K 5% 1/10W				
R666	1-216-073-00	RES-CHIP	10K 5% 1/10W				
R667	1-216-089-91	RES-CHIP	47K 5% 1/10W				
R668	1-215-457-00	METAL	33K 1% 1/4W				
R670	1-216-677-11	METAL CHIP	12K 0.50% 1/10W				
R671	1-216-677-11	METAL CHIP	12K 0.50% 1/10W				
R672	1-216-663-11	METAL CHIP	3.3K 0.50% 1/10W				
R673	1-216-073-00	RES-CHIP	10K 5% 1/10W				
R674	1-216-097-91	RES-CHIP	100K 5% 1/10W				
R675	1-216-663-11	METAL CHIP	3.3K 0.50% 1/10W				
R676	1-216-668-11	METAL CHIP	5.1K 0.50% 1/10W				
R677	1-216-661-11	METAL CHIP	2.7K 0.50% 1/10W				
R678	1-216-390-11	METAL OXIDE	1.2 5% 3W				
R680	1-215-475-00	METAL	180K 1% 1/4W				
						<CAPACITOR>	
				C101	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V
				C102	1-104-664-11	ELECT	47UF 20.00% 25V
				C103	1-163-021-91	CERAMIC CHIP	0.01UF 10.00% 50V
				C104	1-104-664-11	ELECT	47UF 20.00% 25V
				C107	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V
				C108	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C109	1-163-239-11	CERAMIC CHIP 33PF	5.00% 50V	C417	1-104-574-11	CERAMIC 0.0047UF	10.00% 2KV
C110	1-163-275-11	CERAMIC CHIP 0.001UF	5.00% 50V	C419	1-162-318-11	CERAMIC 0.001UF	10.00% 500V
C111	1-163-227-11	CERAMIC CHIP 10PF	0.50PF 50V	C420	1-164-489-11	CERAMIC CHIP 0.22UF	10.00% 16V
C112	1-164-489-11	CERAMIC CHIP 0.22UF	10.00% 16V	C421	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C113	1-164-489-11	CERAMIC CHIP 0.22UF	10.00% 16V	C422	1-164-489-11	CERAMIC CHIP 0.22UF	10.00% 16V
C114	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C423	1-104-664-11	ELECT 47UF	20.00% 25V
C115	1-136-189-00	MYLAR 0.1UF	10.00% 250V	C424	1-162-318-11	CERAMIC 0.001UF	10.00% 500V
C117	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C425	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V
C120	1-136-189-00	MYLAR 0.1UF	10.00% 250V	C426	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V
C201	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C427	1-163-235-11	CERAMIC CHIP 22PF	5.00% 50V
C202	1-104-664-11	ELECT 47UF	20.00% 25V	C430	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C203	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C431	1-163-275-11	CERAMIC CHIP 0.001UF	5.00% 50V
C204	1-104-664-11	ELECT 47UF	20.00% 25V	C432	1-164-489-11	CERAMIC CHIP 0.22UF	10.00% 16V
C205	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C433	1-162-318-11	CERAMIC 0.001UF	10.00% 500V
C206	1-109-982-11	CERAMIC CHIP 1UF	10.00% 10V	C434	1-162-318-11	CERAMIC 0.001UF	10.00% 500V
C207	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C435	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C208	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C436	1-164-489-11	CERAMIC CHIP 0.22UF	10.00% 16V
C209	1-163-237-11	CERAMIC CHIP 27PF	5.00% 50V	C437	1-126-934-11	ELECT 220UF	20.00% 16V
C210	1-163-275-11	CERAMIC CHIP 0.001UF	5.00% 50V	C438	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
C211	1-163-227-11	CERAMIC CHIP 10PF	0.50PF 50V	C440	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C212	1-164-489-11	CERAMIC CHIP 0.22UF	10.00% 16V	C441	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C213	1-164-489-11	CERAMIC CHIP 0.22UF	10.00% 16V	C442	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C214	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C443	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C215	1-136-189-00	MYLAR 0.1UF	10.00% 250V	C444	1-162-318-11	CERAMIC 0.001UF	10.00% 500V
C216	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C446	1-104-664-11	ELECT 47UF	20.00% 25V
C217	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C449	1-109-982-11	CERAMIC CHIP 1UF	10.00% 10V
C220	1-136-189-00	MYLAR 0.1UF	10.00% 250V	C450	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V
C301	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C452	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C302	1-104-664-11	ELECT 47UF	20.00% 25V	C456	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C303	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C457	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C304	1-104-664-11	ELECT 47UF	20.00% 25V	C458	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
C307	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C459	1-128-560-11	ELECT 22UF	20.00% 100V
C308	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C462	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
C309	1-163-239-11	CERAMIC CHIP 33PF	5.00% 50V	C463	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C310	1-163-275-11	CERAMIC CHIP 0.001UF	5.00% 50V	C464	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C311	1-163-227-11	CERAMIC CHIP 10PF	0.50PF 50V	C467	1-107-957-11	ELECT 1UF	20.00% 250V
C312	1-164-489-11	CERAMIC CHIP 0.22UF	10.00% 16V		<CONNECTOR>		
C313	1-164-489-11	CERAMIC CHIP 0.22UF	10.00% 16V	CN401	1-793-183-11	CONNECTOR, D SUB 15P	
C314	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	CN402*	1-564-509-11	PLUG, CONNECTOR 6P	
C315	1-136-189-00	MYLAR 0.1UF	10.00% 250V	CN403	1-784-463-11	CONNECTOR, FFC/FPC 21P	
C317	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	CN405*	1-564-524-11	PLUG, CONNECTOR 9P	
C320	1-136-189-00	MYLAR 0.1UF	10.00% 250V	CN406*	1-766-179-11	PIN, CONNECTOR (PC BOARD) 2P	
C401	1-126-964-11	ELECT 10UF	20.00% 50V		<DIODE>		
C402	1-104-664-11	ELECT 47UF	20.00% 25V	D101	8-719-062-51	DIODE 1PS226-115	
C403	1-163-259-91	CERAMIC CHIP 220PF	5.00% 50V	D102	8-719-062-51	DIODE 1PS226-115	
C404	1-163-259-91	CERAMIC CHIP 220PF	5.00% 50V	D103	8-719-066-10	DIODE 1PS181-115	
C405	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	D105	8-719-051-85	DIODE HSS83TD	
C406	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	D106	8-719-052-12	DIODE 1SS376TE-17	
C407	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	D107	8-719-052-12	DIODE 1SS376TE-17	
C408	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	D201	8-719-062-51	DIODE 1PS226-115	
C410	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	D202	8-719-062-51	DIODE 1PS226-115	
C411	1-104-664-11	ELECT 47UF	20.00% 25V	D203	8-719-066-10	DIODE 1PS181-115	
C412	1-115-340-11	CERAMIC CHIP 0.22UF	10.00% 25V	D205	8-719-051-85	DIODE HSS83TD	
C413	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V				
C415	1-164-489-11	CERAMIC CHIP 0.22UF	10.00% 16V				
C416	1-126-961-11	ELECT 2.2UF	20.00% 50V				



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
		<FERRITE BEAD>				* A-1395-007-AUS BOARD, COMPLETE *****	
FB801	1-216-295-91	SHORT	0				
FB802	1-216-295-91	SHORT	0				
FB803	1-216-295-91	SHORT	0				
FB804	1-216-295-91	SHORT	0				
FB805	1-216-295-91	SHORT	0				
		<CHIP CONDUCTOR>				<CAPACITOR>	
JR1	1-216-295-91	SHORT	0			C2601 1-163-021-91 CERAMIC CHIP 0.01UF	10.00% 50V
JR4	1-216-295-91	SHORT	0			C2602 1-126-791-11 ELECT 10UF	20.00% 16V
		<TRANSISTOR>				C2603 1-126-791-11 ELECT 10UF	20.00% 16V
Q801	8-729-120-28	TRANSISTOR 2SC1623-L5L6				C2604 1-126-791-11 ELECT 10UF	20.00% 16V
Q802	8-729-120-28	TRANSISTOR 2SC1623-L5L6				C2605 1-126-791-11 ELECT 10UF	20.00% 16V
Q803	8-729-027-31	TRANSISTOR DTA124EKA-T146				C2606 1-126-176-11 ELECT 220UF	20.00% 10V
Q804	8-729-027-31	TRANSISTOR DTA124EKA-T146				C2607 1-126-176-11 ELECT 220UF	20.00% 10V
		<RESISTOR>				C2608 1-126-176-11 ELECT 220UF	20.00% 10V
R801	1-216-049-91	RES-CHIP 1K	5% 1/10W			C2609 1-126-176-11 ELECT 220UF	20.00% 10V
R802	1-216-041-00	RES-CHIP 470	5% 1/10W			C2610 1-113-340-11 ELECT 47UF	20.00% 25V
R803	1-216-033-00	RES-CHIP 220	5% 1/10W			C2612 1-163-021-91 CERAMIC CHIP 0.01UF	10.00% 50V
R804	1-216-033-00	RES-CHIP 220	5% 1/10W			C2901 1-164-004-11 CERAMIC CHIP 0.1UF	10.00% 25V
R811	1-216-073-00	RES-CHIP 10K	5% 1/10W			C2902 1-113-340-11 ELECT 47UF	20.00% 25V
R812	1-216-073-00	RES-CHIP 10K	5% 1/10W			C2904 1-163-021-91 CERAMIC CHIP 0.01UF	10.00% 50V
R813	1-216-081-00	RES-CHIP 22K	5% 1/10W			C2905 1-164-489-11 CERAMIC CHIP 0.22UF	10.00% 16V
R814	1-216-097-91	RES-CHIP 100K	5% 1/10W			C2906 1-164-489-11 CERAMIC CHIP 0.22UF	10.00% 16V
R815	1-216-675-91	METAL CHIP 10K	0.50%1/10W			C2908 1-164-489-11 CERAMIC CHIP 0.22UF	10.00% 16V
R821	1-215-401-11	METAL 150	1% 1/4W			C2909 1-163-237-11 CERAMIC CHIP 27PF	5.00% 50V
R822	1-215-413-00	METAL 470	1% 1/4W			C2912 1-163-235-11 CERAMIC CHIP 22PF	5.00% 50V
R823	1-216-651-11	METAL CHIP 1K	0.50%1/10W			C2914 1-164-489-11 CERAMIC CHIP 0.22UF	10.00% 16V
R824	1-216-655-11	METAL CHIP 1.5K	0.50%1/10W			C2915 1-164-489-11 CERAMIC CHIP 0.22UF	10.00% 16V
R851	1-216-041-00	RES-CHIP 470	5% 1/10W			C2916 1-164-004-11 CERAMIC CHIP 0.1UF	10.00% 25V
R852	1-216-025-91	RES-CHIP 100	5% 1/10W			C2917 1-164-004-11 CERAMIC CHIP 0.1UF	10.00% 25V
R853	1-216-025-91	RES-CHIP 100	5% 1/10W			C2918 1-164-004-11 CERAMIC CHIP 0.1UF	10.00% 25V
		<SWITCH>				C2923 1-163-021-91 CERAMIC CHIP 0.01UF	10.00% 50V
S801	1-771-734-11	SWITCH, TACTILE (BRT +/-, CONT +/-)					
S811	1-572-347-21	SWITCH, SLIDE (INPUT 1/2)					
S812	1-571-760-11	SWITCH, KEYBOARD (RESET)					
S813	1-571-760-11	SWITCH, KEYBOARD (ASC)					
		<THERMISTOR>				<CONNECTOR>	
TH801	1-807-796-11	THERMISTOR				CN2601 * 1-778-681-11 PIN, CONNECTOR (PC BOARD) 5P	
						CN2901 1-779-677-11 CONNECTOR, USB (B)	
						CN2902 1-779-676-11 CONNECTOR, USB (A)	
						CN2903 1-779-676-11 CONNECTOR, USB (A)	
						CN2904 1-779-676-11 CONNECTOR, USB (A)	
						CN2905 1-779-676-11 CONNECTOR, USB (A)	
						<DIODE>	
						D2601 8-719-158-15 ZENER DIODE RD5.6S-B	
						D2604 8-719-911-19 DIODE 1SS119-25	
						D2605 8-719-911-19 DIODE 1SS119-25	
						D2606 8-719-911-19 DIODE 1SS119-25	
						D2607 8-719-911-19 DIODE 1SS119-25	
						D2902 8-719-422-12 ZENER DIODE MA8039	
						D2903 8-719-422-12 ZENER DIODE MA8039	
						D2904 8-719-158-15 ZENER DIODE RD5.6S-B	
						D2905 8-719-158-15 ZENER DIODE RD5.6S-B	
						D2906 8-719-158-15 ZENER DIODE RD5.6S-B	
						D2907 8-719-158-15 ZENER DIODE RD5.6S-B	
						D2908 8-719-422-12 ZENER DIODE MA8039	
						D2909 8-719-422-12 ZENER DIODE MA8039	
						D2910 8-719-422-12 ZENER DIODE MA8039	
						D2911 8-719-422-12 ZENER DIODE MA8039	
