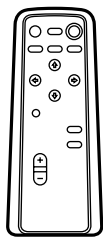


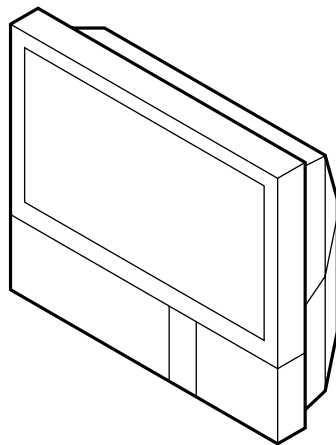
SERVICE MANUAL

LJ-2 CHASSIS

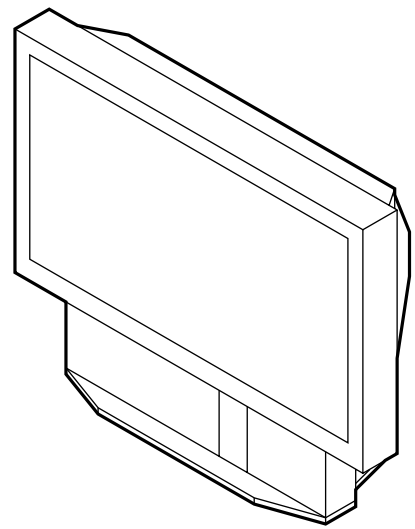
| MODEL | COMMANDER | DEST. | CHASSIS No. | MODEL | COMMANDER | DEST. | CHASSIS No. |
|------------------|-----------|----------|-------------|------------------|-----------|----------|-------------|
| KL-W7000A | RM-Y980 | US | SCC-N56D-A | KL-W9000A | RM-Y980 | US | SCC-N56C-A |
| KL-W7000A | RM-Y980 | Canadian | SCC-N56D-A | KL-W9000A | RM-Y980 | Canadian | SCC-N56C-A |



RM-Y980



KL-W7000A



KL-W9000A



* Please file according to model size... ■

37

50

LCD PROJECTION DATA MONITOR
SONY®

Specifications

| | |
|--|---|
| Acceptable signal | NTSC video signal, RGB signal (For details, see page 9.) |
| Projection system | 3 LCD panels, 1 lens projection system |
| LCD panel | 1.35-inch TFT LCD panel Approx. 1.54 million dots (512,880 pixels) 1068.5 × 480 dots × 3 panels |
| Lamp | XL-100U: HID lamp, 100 W |
| Lens | Large diameter hybrid lens F2.4 |
| Screen size (measured diagonally) | KL-W7000A: 37 inches (942 mm) KL-W9000A: 50 inches (1,272 mm) |
| Viewable image size (for RGB input) | KL-W7000A: Approx. 36.3 inches (921 mm) (diagonally) Approx. 803 × 452 mm (w/h) KL-W9000A: Approx. 49.1 inches (1247 mm) (diagonally) Approx. 1087 × 611 mm (w/h) |
| Deflection frequency | Horizontal: 31.5 to 50 kHz Vertical: 50 to 85 Hz |
| Inputs/outputs | |
| VIDEO 1, 2 and 3 IN | S VIDEO (VIDEO 1, 3 IN only) (4-pin mini-DIN): Y: 1 Vp-p, 75 ohms unbalanced, sync negative C: 0.286 Vp-p (burst signal), 75 ohms VIDEO (phono jacks): 1 Vp-p, 75 ohms unbalanced, sync negative AUDIO (phono jacks): 2 channels, 500 mVrms Impedance: more than 47 kohms |
| DVD IN | VIDEO (phono jacks): Y: 1 Vp-p, 75 ohms, sync negative C _B /P _B : 0.7 Vp-p, 75 ohms C _R /P _R : 0.7 Vp-p, 75 ohms AUDIO (phono jacks): 500 mVrms (100% modulation) Impedance: 47 kilohms |
| VIDEO OUT | S VIDEO (4-pin mini-DIN): Y: 1 Vp-p, 75 ohms unbalanced, sync negative C: 0.286 Vp-p (burst signal), 75 ohms VIDEO (phono jack): 1 Vp-p, 75 ohms unbalanced, sync negative AUDIO (phono jacks): 2 channels, 500 mVrms Impedance: less than 5 kohms |

| | |
|-----------------------------|---|
| RGB 1, 2 IN | VIDEO (D-sub 15-pin, female): R, G, B: 0.7 Vp-p, positive, 75 ohms terminated Sync on Green: 0.286 Vp-p SYNC/HD: Composite sync: TTL, high impedance, sync positive/negative Horizontal sync: TTL, high impedance, sync positive/negative VD: Vertical sync: TTL, high impedance, sync positive/negative AUDIO (RGB 1 IN) (phono jacks) 2 channels, 500 mVrms Impedance: more than 47 kohms AUDIO (RGB 2 IN) (stereo minijack) 500 mVrms Impedance: more than 47 kohms |
| Speaker output | Front: 5 W × 2 (L/R) Woofer: 20 W |
| Power requirement | 100 to 120 V AC, 50/60 Hz |
| Power consumption | 190 W (MAX) Standby mode: 2 W |
| Dimensions | KL-W7000A: 920 × 825 × 390 mm (36 ¹ / ₄ × 32 ¹ / ₂ × 15 ³ / ₈ inches) (w/h/d) KL-W9000A: 1,228 × 1,055 × 565 mm (48 ³ / ₈ × 41 ⁵ / ₈ × 22 ¹ / ₄ inches) (w/h/d) |
| Mass | KL-W7000A: Approx. 30 kg (68 lbs 2 oz) KL-W9000A: Approx. 43 kg (106 lbs 8 oz) |
| Supplied accessories | Remote control RM-Y980 (1) Size AA (R6) batteries (2) AC power cord (1) RGB signal cable (D-sub 15-pin ↔ D-sub 15-pin) (1) HD15-HD15 (male, without the No. 9 pin) adaptor (1) Macintosh adaptor (1) Windows Monitor Information Disk (1) Brackets (2) Screws for brackets (2) Buckle (1) Hexagon head wrench (1) |
| Optional accessories | Lamp unit XL-100U |

Design and specifications are subject to change without notice.

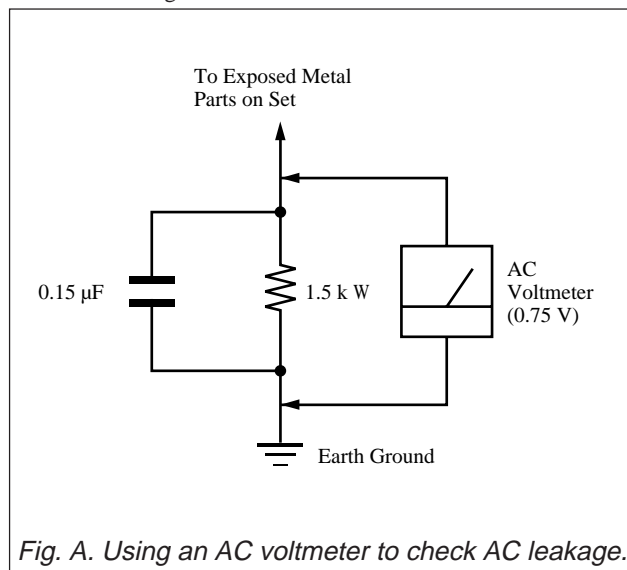
SAFETY CHECK-OUT

(US Model only)

KL-W7000A/W9000A
RM-Y980

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 condition of the monopole antenna (if any). Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna’s replacement.
8. 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.
9. Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC Leakage. Check leakage as described below.



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)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60 – 100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

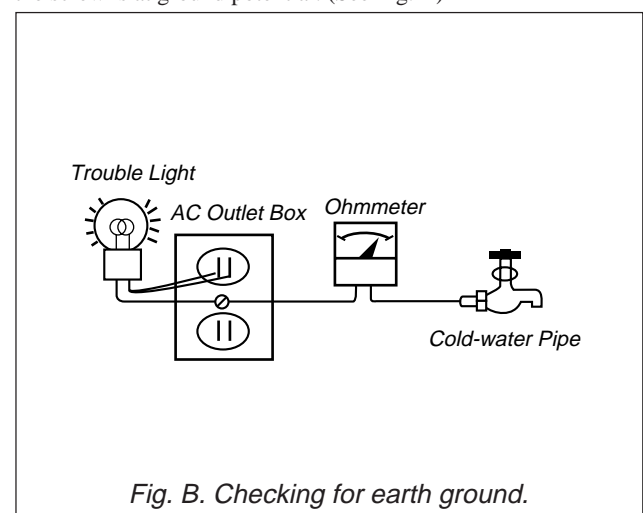


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SAFETY-RELATED COMPONENT WARNING!!
COMPONENTS IDENTIFIED BY SHADING AND MARK \triangle
ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS
AND IN THE PARTS LIST ARE CRITICAL TO SAFE
OPERATION. REPLACE THESE COMPONENTS WITH
SONY PARTS WHOSE PART NUMBERS APPEAR AS
SHOWN IN THIS MANUAL OR IN SUPPLEMENTS
PUBLISHED BY SONY.

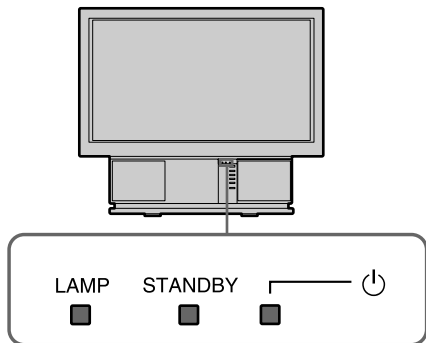
**ATTENTION AUX COMPOSANTS RELATIFS À LA
SÉCURITÉ!!**
LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET
UNE MARQUE \triangle SONT CRITIQUES POUR LA
SÉCURITÉ. NE LES REMPLACER QUE PAR UNE PIÈCE
PORTANT LE NUMÉRO SPECIFIÉ. LES RÉGLAGES DE
CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR
LA SÉCURITÉ DU FONCTIONNEMENT SONT
IDENTIFIÉS DANS LE PRÉSENT MANUEL. SUIVRE CES
PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE
COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS
FONCTIONNEMENT EST SUSPECTÉ.

SECTION 1

SELF DIAGNOSIS FUNCTION

1-1. SELF DIAGNOSIS FUNCTION

What flashing of the indicators on the front of the monitor means



The $\text{\textcircled{P}}$ (power) (green), STANDBY (orange) and/or LAMP (red) indicators indicate the conditions of the monitor and warnings by lighting or flashing, as follows.

The $\text{\textcircled{P}}$ indicator lights.

➔ The power of the monitor is on.

The STANDBY indicator lights.

➔ The monitor is in standby mode. The monitor is turned on by pressing POWER on the remote control.

The $\text{\textcircled{P}}$ and STANDBY indicators light.

➔ The Auto Shut Off function works. The monitor has been turned off when the time you specify has passed after the input of the computer is cut off.

The $\text{\textcircled{P}}$ indicator flashes.

➔ The lamp for the light source is ready to turn on. You can obtain picture and sound after a while.

The LAMP and STANDBY indicators flash.

➔ The air filter or the lamp cover is not attached securely. When you correct, the STANDBY lamp lights up and the monitor enters the standby mode. (pages 17 and 18)

The LAMP indicator flashes.

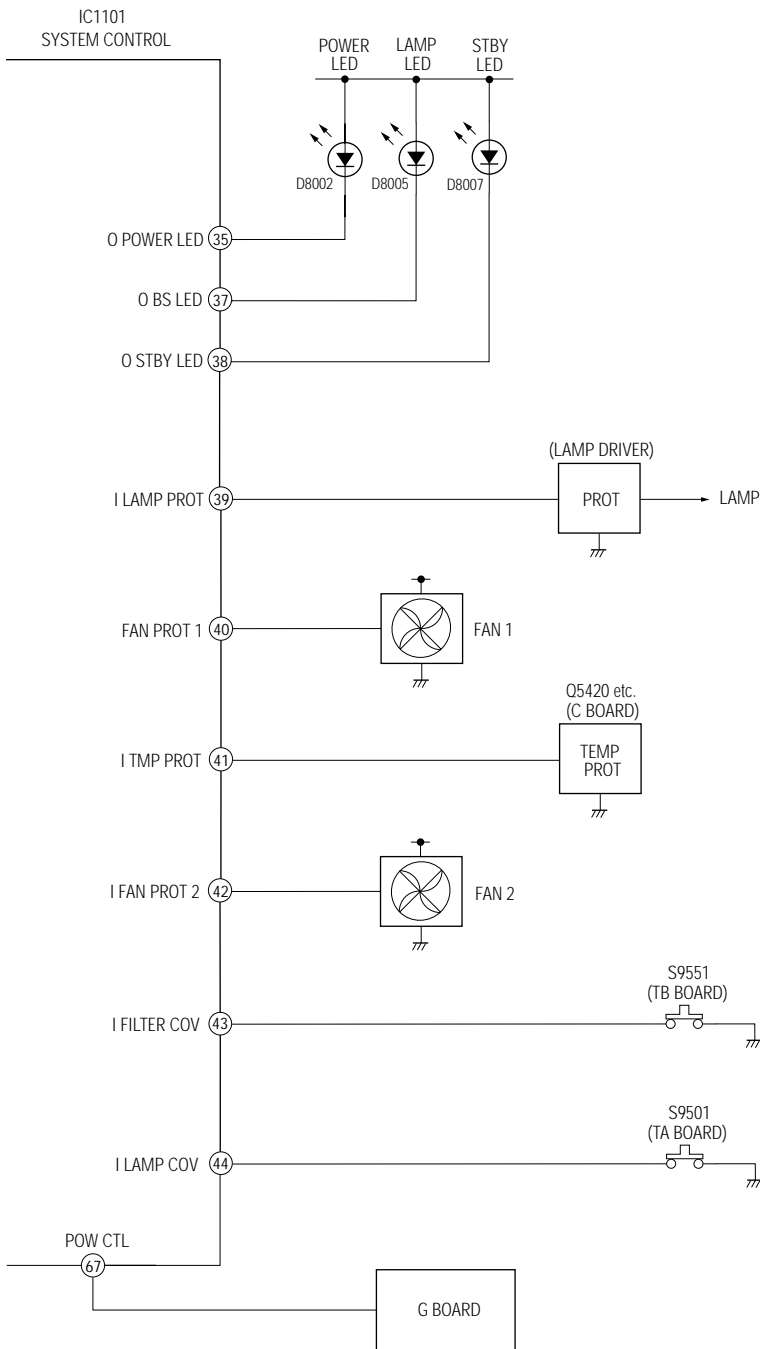
➔ The lamp for the light source burns out. Replace it with new one. (page 18)

The LAMP, STANDBY and $\text{\textcircled{P}}$ indicators flash.

➔ The temperature inside the monitor has risen abnormally, or the fans have stopped. Check that the air filter is not clogged and the ventilation holes are not blocked. After a while turn on the monitor. (page 17)

If the monitor is not recovered after correcting the problems, contact with qualified Sony personnel.

1-2. SELF DIAGNOSIS CIRCUIT (A BOARD <1/3>)



1. Incomplete installation of filter or lump cover

When either S9551 (filter) or S9501 (lump cover) is opened, the voltage of pin ④③ and pin ④④ on IC1101 is increased over 0 V. The circuit detects that and drops the voltage of pin ⑥⑦ on IC1101 to 0 V.

2. Burnt out of the lump

When the lump is burnt out, the voltage of pin ③⑨ on IC1101 is increased over 5 V. The circuit detects that and drops the voltage of pin ⑥⑦ on IC1101 to 0 V.

3. Rising in temperature

When temperature of inside of the unit rises up, the voltage of pin ④① on IC1101 is increased over 5 V. The circuit detects that and drops the voltage of pin ⑥⑦ on IC1101 to 0 V.

4. Poor ventilation (Standstill of the fan)

When the fan stops or is out of order, the voltage of either pin ④② or pin ④④ on IC1101 is increased over 5 V. The circuit detects that and drops the voltage of pin ⑥⑦ on IC1101 to 0 V.

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.

Precautions

This projection monitor operates on extremely high voltage. To prevent fire or electric shock, please follow the precautions below.

On safety

- Operate the monitor only on 100 V to 120 V AC.
- One blade of the plug is wider than the other for safety purposes and will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.
- Should any liquid or solid object fall into the cabinet, unplug the monitor and have it checked by qualified personnel before operating it further.
- Unplug the monitor from the wall outlet if you are not going to use it for several days or more. To disconnect the cord, pull it out by the plug. Never pull the cord itself.
- The fans inside the monitor continue working for a while even after the monitor has been turned off. Do not unplug the monitor from the AC outlet while the fans are working.

On installation

- To prevent internal heat build-up, do not block the ventilation openings.
- Do not install the monitor in a hot or humid place, or in a place subject to excessive dust or mechanical vibration.

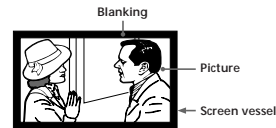
On screen

The screen surface is easily scratched. Do not rub, touch or tap it with sharp or abrasive objects. Be especially careful when transporting the monitor.

On blanking around the picture

The monitor displays black masks between the picture and the screen vessel because the monitor under-scans to obtain the necessary space on the screen to display the picture. This is called blanking. Note that the black masks on each vessel are not uniform.

The blanking on the video picture will be wider to optimize picture.



On moisture condensation

If the projection monitor is transported directly from a cold to a warm location, or if the room temperature has changed suddenly, the picture may be blurred or show poor color. This is because moisture has condensed on the lenses inside. If this happens, let the moisture evaporate before using the monitor.

On cleaning

- Clean the cabinet of the monitor with a dry soft cloth. Stubborn stains may be removed with a cloth slightly dampened with solution of mild soap and water, then wipe it with a dry soft cloth.
- Do not use any type of solvent such as alcohol, benzene, thinner or insecticide. Such solvent may damage the finish of the monitor or erase the indications on the panel.
- To remove dust from the screen, wipe it gently with a soft cloth.
- Stubborn stains on the screen may be removed with a soft cloth slightly dampened with solution of mild soap and water.
- If the picture becomes dark after using the monitor for a long period of time, it may be necessary to clean the inside of the monitor. Consult qualified service personnel.

SECTION 2 GENERAL

Getting Started

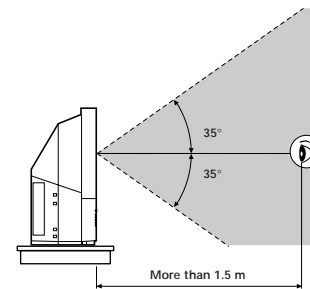
Step 1: Installing the projection monitor

Optimum viewing area

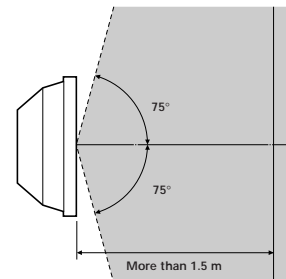
For the best picture quality, install the monitor as shown below.

■ for KL-W7000A

Vertical viewing area (side view)

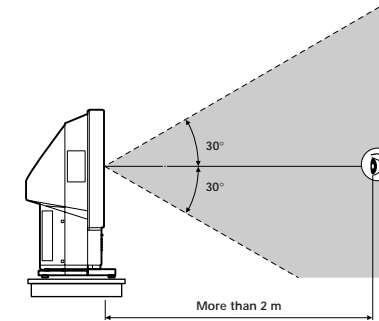


Horizontal viewing area (top view)

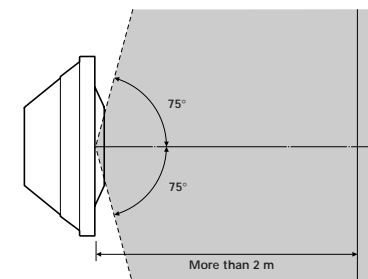


■ for KL-W9000A

Vertical viewing area (side view)



Horizontal viewing area (top view)

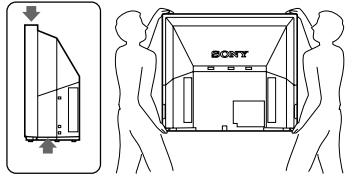


US

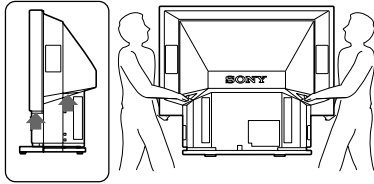
Carrying your monitor

Be sure to grasp the areas indicated by the arrows when carrying the monitor, and to use more than two people. Never grasp the front panel.

■ for KL-W7000A



■ for KL-W9000A

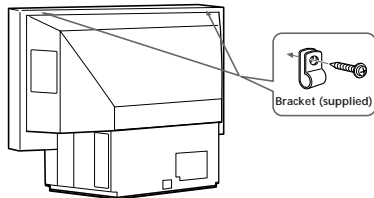


Stabilizing the monitor

Using the brackets

After setting up, secure the monitor to a wall, etc. with the supplied brackets.

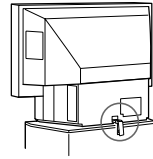
- 1 Mount the two supplied brackets with the screws to the upper rear sides of the monitor.



- 2 Pass a strong cord or a chain through each bracket mounted in step 1, and then secure it to a wall or a pillar, etc.

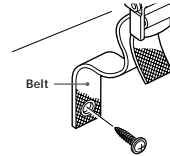
Using the buckle

You can also use the supplied buckle to secure the monitor to the stand.

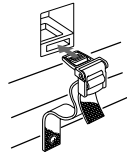


- 1 Attach the buckle to the stand on which the monitor is mounted.

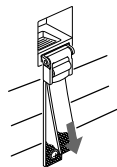
Tighten the supplied screw firmly.



- 2 Insert the buckle until it clicks.



- 3 Pull the belt to fasten.



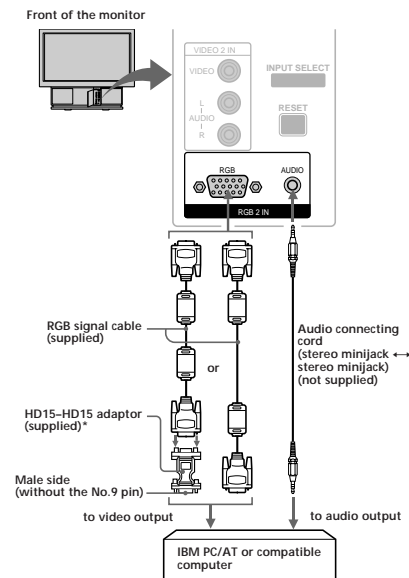
Step 2: Hookup

Before making the connection, turn off the power and disconnect the AC power cords of the monitor and the equipment to be connected. Refer to the instruction manual of the equipment you connect.

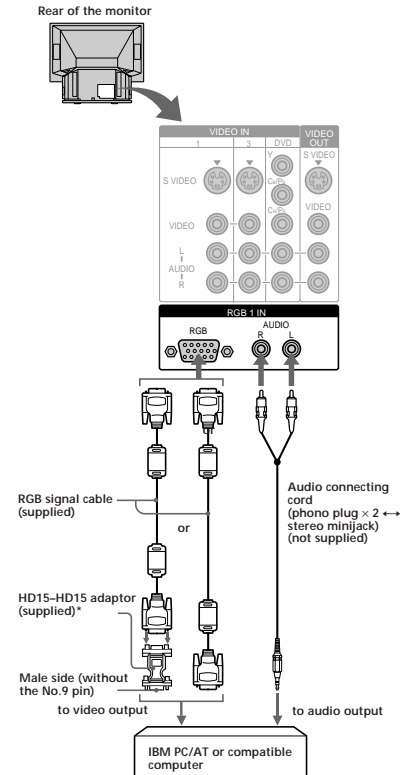
Connecting to an IBM PC/AT or compatible computer

Connect the RGB 2 IN connector on the front or the RGB 1 IN connector at the rear of the monitor to the video / audio outputs of the computer using the supplied RGB signal cable (D-sub 15 pin ↔ D-sub 15 pin).

Using the front RGB 2 IN connector



Using the rear RGB 1 IN connector



* The HD15-HD15 adaptor (supplied) may be needed for some models. The male side (without the No. 9 pin) of the adaptor should be connected to the computer.

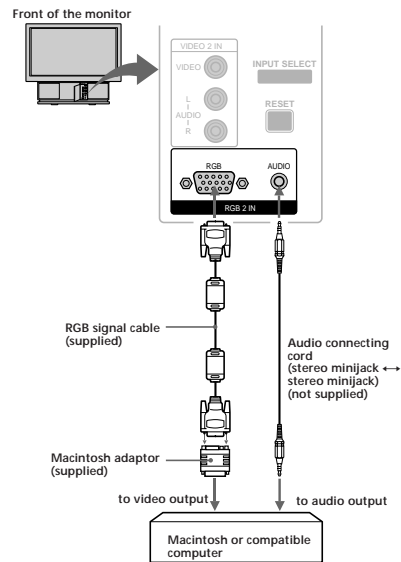
For customers using the supplied HD15-HD15 adaptor

This monitor uses a No. 9 pin in the video signal connector for DDC1 and DDC2B compatibility. Some PC systems which are not compatible with either DDC1 or DDC2B may not accept the No. 9 pin. If you are not sure whether your PC system accepts the No. 9 pin or not, use the HD15 (Female) – HD15 (Male without the No. 9 pin) adaptor (supplied).

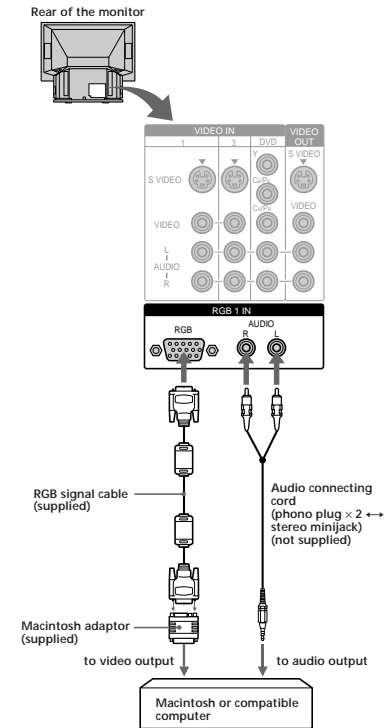
Connecting to a Macintosh or compatible computer

Connect the RGB 2 IN connector on the front or the RGB 1 IN connector at the rear of the monitor to the video/audio outputs of the computer using the supplied RGB signal cable (D-sub 15 pin ↔ D-sub 15 pin) and the supplied Macintosh adaptor.

Using the front RGB 2 IN connector



Using the rear RGB 1 IN connector



About the supplied Macintosh adaptor
The supplied Macintosh adaptor is compatible with Macintosh LC, Performa, Quadra and Power Macintosh series computers. Macintosh II series and some version of PowerBook models may need an another adaptor with micro switches (not supplied).

Preset and user modes

The monitor automatically detects the input signals with the horizontal scanning frequency between 31.5 and 50.0 kHz and the vertical scanning frequency between 50 and 85 Hz. The monitor is capable of a display resolution of up to 1068.5 × 480 dots. When a signal with a higher resolution is input, it will be processed to display the image at 1068.5 × 480 dots.

Preset modes

The monitor has nine factory preset modes for the most popular industry standards as shown below.

| No. | Resolution (dots × lines) | Horizontal frequency (kHz) | Vertical frequency (Hz) | Graphics mode |
|-----|---------------------------|----------------------------|-------------------------|-----------------------|
| 1 | 640 × 400 | 31.468 | 70.086 | VGA mode (Text) |
| 2 | 640 × 480 | 31.468 | 59.94 | VGA mode (Graphics) |
| 3 | 800 × 600 | 37.879 | 60.317 | SVGA VESA |
| 4 | 800 × 600 | 46.875 | 75.000 | SVGA VESA |
| 5 | 1024 × 768 | 48.363 | 60.004 | VESA |
| 6 | 864 × 480 | 31.469 | 59.94 | Sony Wide Resolution* |
| 7 | 1072 × 600 | 37.879 | 60.317 | Sony Wide Resolution* |
| 8 | 1376 × 768 | 48.363 | 60.004 | Sony Wide Resolution* |
| 9 | 832 × 624 | 49.727 | 74.553 | Macintosh 16" color |

* For the timing chart of the signals, see page 30.

User modes

When using a video mode that is not one of the preset modes, some fine tuning may be required to optimize the display to your preference. Simply adjust the monitor according to the adjustments instructions on pages 17 and 18. The adjustments will be stored automatically and recalled whenever that mode is used.

Recommended horizontal timing conditions

Horizontal sync width should be more than 1.0 μsec.
Horizontal blanking width should be more than 3.6 μsec.

When "OUT OF SCAN RANGE" appears on the screen
The monitor receives a signal whose frequency range is not within that specified for the monitor.

Notes

- When projecting any of the three Wide Resolution signals (864 × 480, 1072 × 600, 1376 × 768), set the picture mode to FULL. In NORMAL mode, the picture with aspect ratio 16:9 will be compressed to aspect ratio 4:3 and appear lengthened vertically. For details, see page 16.
- The monitor does not accept an interlace mode signal.

Plug & Play

This monitor complies with the DDC™1 and DDC2B which are the Display Data Channel (DDC) standards of VESA.

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

When a DDC2B host system is connected, the monitor automatically switches to each communication.

For customers using Windows 95/98

To maximize the potential of your monitor, install the new model information file from the supplied Windows Monitor Information Disk onto your computer.

This monitor complies with the "VESA DDC" Plug & Play standard. If your computer / graphic board complies with DDC, select "Plug & Play Monitor (VESA DDC)" or this monitor's model name as the monitor type in the "Control Panel" of Windows 95/98. If your computer / graphic board has difficulty communicating with this monitor, load the Windows Monitor Information Disk and select this monitor's model name as the monitor type.

For customers using Windows NT4.0

Monitor setup in Windows NT4.0 is different from Windows 95/98 and does not involve the selection of monitor type. Refer to the Windows NT4.0 instruction manual for further details on adjusting the resolution, refresh rate, and number of colors.

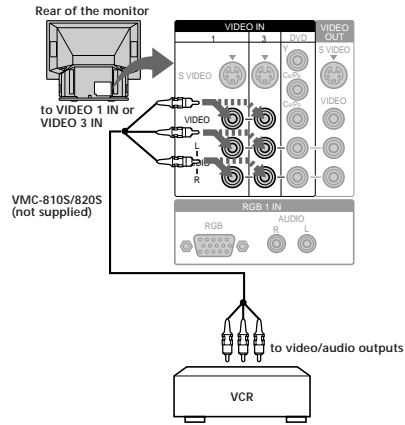
Adjusting the monitor's resolution and color number

Adjust the monitor's resolution and color number by referring to your computer's instruction manual. The color number may vary according to your computer or video board. The color palette setting and the actual number of colors are as follows:

- High Color (16 bit) → 65,536 colors
 - True Color (24 bit) → about 16.77 million colors
- In true color mode (24 bit), speed may be slower.

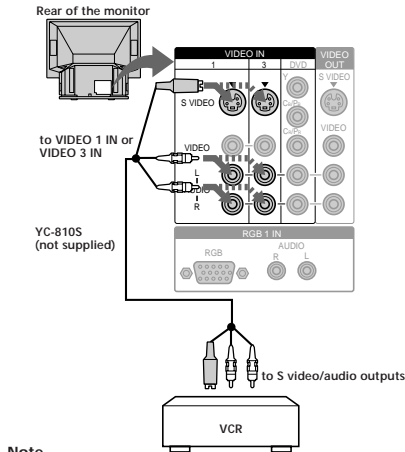
Connecting to video equipment

To a VCR not equipped with an S video connector



You can also use the VIDEO 2 IN jacks on the front of the monitor for the video/audio connections.

To an S video equipped VCR



Note

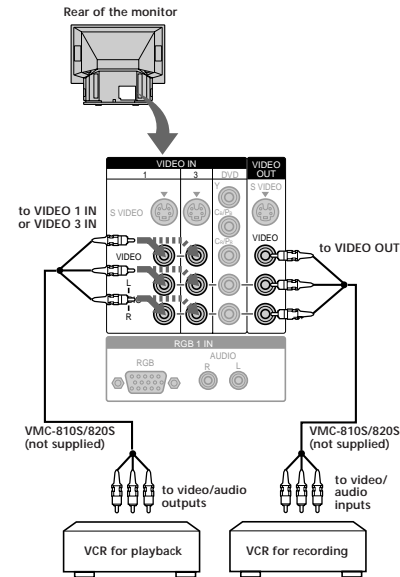
- When you connect the cable to both the VIDEO jack and the S VIDEO connector, the picture from the S VIDEO connector is displayed on the monitor screen.

Connecting two VCRs for editing

The monitor outputs the signal, which is input from the VIDEO 1 IN, VIDEO 2 IN or VIDEO 3 IN jacks, through the VIDEO OUT jacks. With two VCRs connected to the VIDEO IN and VIDEO OUT jacks, you can edit the tape.

Notes

- For signals input from the RGB 1 IN, RGB 2 IN and DVD IN connectors, the monitor outputs only the audio signal.
- Do not connect both the VIDEO IN and VIDEO OUT jacks on this monitor simultaneously to the video/audio output and input jacks on a single VCR.



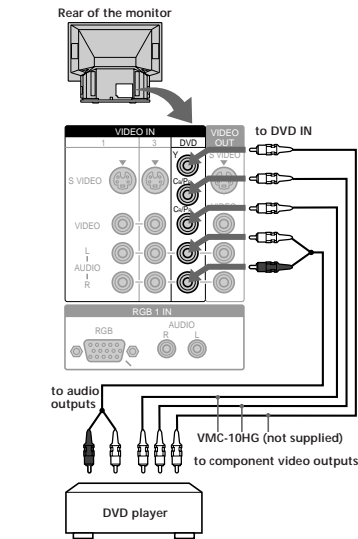
Connecting a DVD Player

If your DVD player has the component video output connectors*, connect them to the DVD IN (Y, C_B/P_B and C_R/P_R) connectors at the rear of the monitor for higher quality picture. For details, see the Instructions supplied with the DVD player.

* Some DVD player terminals may be labeled or colored differently. If so, connect them as follows:

| Connect (on the monitor) | To (on a DVD player) |
|---------------------------------------|---|
| Y (green) | Y |
| C _B /P _B (blue) | C _B , C _S , B-Y or P _B |
| C _R /P _R (red) | C _R , C _S , R-Y or P _R |

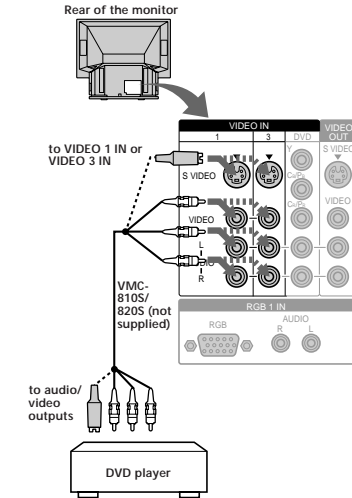
Connecting a DVD player with component video output connectors



Note

- The signal input from the DVD IN jacks is not output from the VIDEO OUT jacks.

Connecting a DVD player without component video output connectors



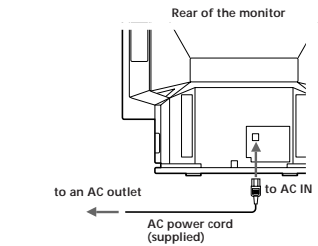
Note

If you have an S video equipped DVD player, make an S video connection using the S video connecting cord (not supplied) instead of the yellow video connecting cord. If so, you can obtain the high quality picture.

US

Connecting the AC power cord

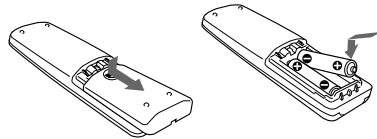
Connect the supplied power cord to the AC IN socket of the monitor and to a wall AC outlet.



Step 3: Setting up the remote control

Inserting batteries

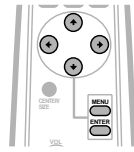
Insert two size AA (R6) batteries (supplied) by matching the + and - on the battery to the diagram inside the battery compartment.



Notes

- If the remote control does not operate properly, the batteries may be worn out. When replacing batteries, replace both of them with new ones.
- Do not mix old batteries with new ones or mix different types of batteries together.
- If the electrolyte inside the battery should leak, wipe the contaminated area of the battery compartment with a cloth and replace the old batteries with new ones. To prevent the electrolyte from leaking, remove the batteries when you don't plan to use the remote control for a long period of time.
- Do not handle the remote control roughly. Do not drop it, step on it, or let it get wet.
- Do not place the remote control in direct sunlight, near a heater, or where the humidity is high.

Changing the menu language



If you prefer Spanish or French to English, you can change the menu language.

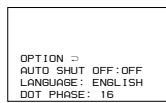
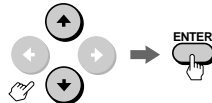
1 Press MENU.



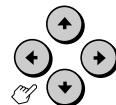
2 Press \uparrow or \downarrow to select OPTION, and press ENTER.



3 Press \uparrow or \downarrow to select LANGUAGE, and press ENTER.



4 Press \uparrow , \downarrow , \leftarrow or \rightarrow to select your favorite language, "ENGLISH," "FRANCAIS (French)" or "ESPAÑOL (Spanish)."



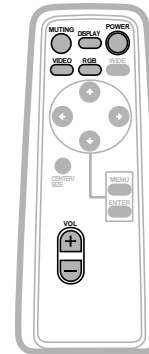
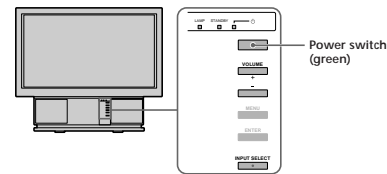
5 Press MENU to return to the original screen.

Notes

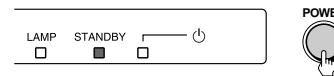
- You can operate the menu using the buttons on the monitor. The VOLUME + button functions the same as \uparrow and \downarrow , and VOLUME - as \leftarrow and \rightarrow .
- You cannot use the AUTO SHUT OFF function for the input from VIDEO 1 IN, VIDEO 2 IN, VIDEO 3 IN and DVD IN. (See page 24.)

Operations

Projecting the picture



1 If the STANDBY indicator on the front of the monitor is lit in orange, press POWER on the remote control to turn on the power.



Press the power switch (green) on the monitor if the STANDBY indicator is not lit.



The green ⏻ (power) indicator flashes, then lights up.

- 2 Turn on the power of the connected equipment.**
- 3 Press RGB or VIDEO to select the input you want to watch.**
The selected input indication is displayed on the screen.

To watch a computer picture input from the RGB IN connector

Each time you press RGB, the display changes as follows:

RGB 1 \leftrightarrow RGB 2



To watch a video picture input from the VIDEO IN jacks

Each time you press VIDEO, the display changes as follows:

VIDEO 1 \rightarrow VIDEO 2 \rightarrow VIDEO 3 \rightarrow DVD



You can also select the input by pressing INPUT SELECT on the monitor.

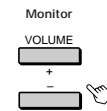
Each time you press INPUT SELECT, the display changes as follows:

RGB 1 \rightarrow RGB 2 \rightarrow VIDEO 1 \rightarrow VIDEO 2 \rightarrow VIDEO 3 \rightarrow DVD



The input signal indication will automatically disappear.

4 Press VOL +/- (VOLUME +/-) to adjust the volume.



(continued)

To turn off the monitor

Press POWER on the remote control. The monitor enters standby mode and the STANDBY indicator lights up. To turn off the main power, press the power switch (green) on the monitor.

Note

- To protect the lamp mounted as a source of light, if you try to turn on the power more than 5 seconds after the power has been turned off, the (power) indicator flashes and you cannot obtain the picture and sound soon. If you turn it on back within about 5 seconds after power-off, you can obtain them soon.

Muting the sound

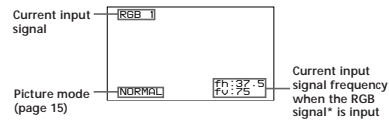
Press MUTING.

"MUTING" appears on the screen.

To restore the sound, press MUTING again, or press VOL+.

Displaying on-screen information

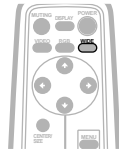
Press DISPLAY to display the following information on the screen.



*fh: Horizontal frequency
fv: Vertical frequency
"OUT OF SCAN RANGE" appears if the scanning frequency range is not within the acceptable limits. (See page 9.)

To make the on-screen information disappear, press DISPLAY again.

Watching the picture in wide picture mode

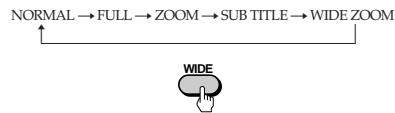


Watching the video picture in wide mode

You can enjoy a variety of wide mode picture.

Press WIDE until the mode you want appears on the screen.

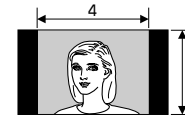
Each time you press WIDE, the mode changes as follows:



Recommended picture mode

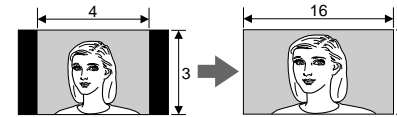
When watching a picture with normal aspect ratio 4:3

Select NORMAL.



The picture with normal aspect ratio 4:3 is displayed as it is.

Select WIDE ZOOM.



The picture is enlarged horizontally and vertically and the upper and lower portions of the picture are compressed to the screen size.

When watching a picture recorded after a 16:9 picture has been compressed to aspect ratio 4:3

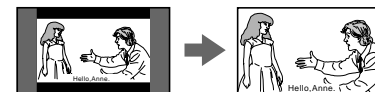
Select FULL.



The picture compressed to aspect ratio 4:3 is enlarged horizontally to the screen size.

When watching a wide-format movie or software with black bands and subtitles (with subtitles inside the picture)

Select ZOOM.



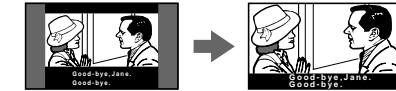
The wide-format picture is enlarged horizontally and vertically to the screen size.



The picture with aspect ratio 16:9 is enlarged to the screen size as it is.

When watching a movie or software with subtitles (with subtitles outside the picture)

Select SUB TITLE.



The wide-format picture is enlarged and the subtitle area is compressed so that the picture is aligned with the screen size.

Note

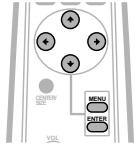
- You can also change the picture mode by using the menu.

Notes on wide picture modes

- Select a picture mode taking into account that one which changes the aspect ratio of the original picture will provide an appear different from that of the original image.
- If the monitor is used for profit or for public viewing, modifying the original picture by changing picture modes may constitute an infringement of the rights of authors or producers which are legally protected by laws.
- When a normal 4:3 picture is watched in WIDE ZOOM mode, the surrounding portions may be cut off or modified. The original picture can be viewed in NORMAL mode.

US

Adjusting the vertical position of the video picture



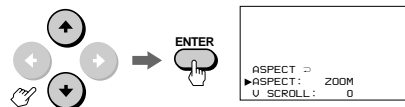
- You can scroll the picture up or down when:
- the upper or lower portions of the picture in WIDE ZOOM mode are cut off.
 - you want to move the picture in ZOOM mode as you like.
 - subtitles are lost from the screen in SUB TITLE mode.

Scrolling the picture functions on the WIDE ZOOM, ZOOM and SUB TITLE modes only.

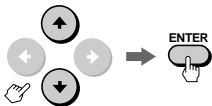
1 Press MENU.



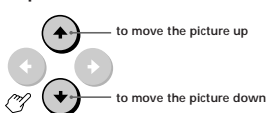
2 Press \uparrow or \downarrow to select ASPECT, and press ENTER.



3 Press \uparrow or \downarrow to select V SCROLL, and press ENTER.

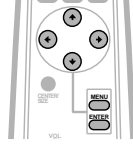


4 Press \uparrow or \downarrow to adjust the vertical position of the picture.



Note
 • You can operate the menu using the buttons on the monitor. The VOLUME + button functions the same as \uparrow and \downarrow , and VOLUME - as \leftarrow and \rightarrow .

Watching the computer picture in wide picture mode



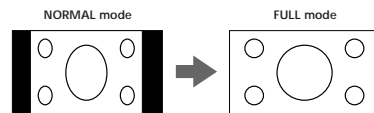
If you set the picture mode to FULL when any of the three Wide Resolution signals (864 × 480, 1072 × 600, 1376 × 768) is received, you can watch the picture with aspect ratio 16:9 as it is. The Wide Resolution signals (864 × 480, 1072 × 600, 1376 × 768) are independently standardized by Sony. When you use the signals with the timing chart on page 30, you can obtain an effective wide mode picture.

Press WIDE to display FULL or NORMAL on the screen.

Each time you press WIDE, you can select FULL and NORMAL alternately.

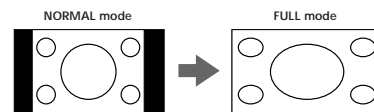


When the Wide Resolution signals (864 × 480, 1072 × 600, 1376 × 768) are received



The picture with aspect ratio 16:9 is enlarged to the screen size.

When a conventional VGA, SVGA or XGA signal is received



The picture with aspect ratio 4:3 is enlarged horizontally to the screen size.

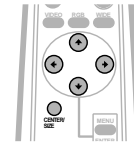
Adjusting the position of a computer picture

You can move the picture up, down, right or left to make it easy to watch by using the SIZE/CENTER button. For details, see page 17.

If you watch the Wide Resolution signals (864 × 480, 1072 × 600, 1376 × 768) in NORMAL mode
 A 16:9 picture will be compressed horizontally to a 4:3 picture.

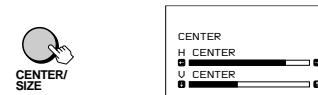
Adjusting the computer picture

Adjusting the position (CENTER)



After projecting the picture from a computer, you may need to adjust the position of the picture to fit the monitor screen. You can also move the picture as you like. The setting is only for the input signal displayed on the screen.

1 Press CENTER/SIZE until the CENTER adjustment screen appears.



2 Press \leftarrow , \rightarrow , \uparrow , or \downarrow to adjust the position.

For horizontal adjustment press \leftarrow or \rightarrow . (H CENTER)



For vertical adjustment press \uparrow or \downarrow . (V CENTER)



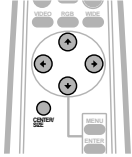
The CENTER adjustment screen automatically disappears after about 10 seconds if you do not press any button. You can also erase the CENTER adjustment screen by pressing CENTER/SIZE again.

To reset to the factory preset setting
 Press RESET on the monitor. At the same time, the picture size (page 18) and video/audio settings (pages 19 to 23) are also reset to the factory preset levels.

Note
 • You can adjust the position by using the CENTER/SIZE and \leftarrow / \rightarrow / \uparrow / \downarrow buttons on the monitor.

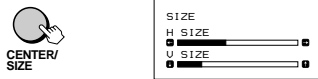
US

Adjusting the picture size (SIZE)



After projecting the picture from a computer, you may need to adjust the picture size to fit the monitor screen. The setting is only for the input signal displayed on the screen.

- 1 Press **CENTER/SIZE** until the **SIZE** adjustment screen appears.



- 2 Press **↑**, **↓**, **←** or **→** to adjust the picture size.

For horizontal adjustment press **←** or **→**. (H SIZE)



For vertical adjustment press **↑** or **↓**. (V SIZE)



The SIZE adjustment screen automatically disappears after about 10 seconds if you do not press any button. You can also erase the SIZE adjustment screen by pressing **CENTER/SIZE** again.

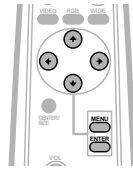
To reset to the factory preset setting

Press **RESET** on the monitor. At the same time, the picture position (page 17) and video/audio settings (pages 19 to 23) are also reset to the factory preset levels.

Notes

- For a picture with resolution of 640 × 350, 640 × 400 or 640 × 480, the vertical size cannot be increased from the size that was projected the first time.
- You can adjust the size using the **CENTER/SIZE** and **←/↑/→/↓** buttons on the monitor.

Adjusting the clarity of the picture (DOT PHASE)

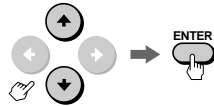


If the computer picture flickers or blurs, or horizontal noise appears on the screen, adjust **DOT PHASE** to get a clearer picture. The setting is only for the input signal displayed on the screen.

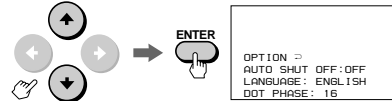
- 1 Press **MENU**.



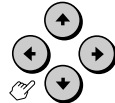
- 2 Press **↑** or **↓** to select **OPTION**, and press **ENTER**.



- 3 Press **↑** or **↓** to select **DOT PHASE**, and press **ENTER**.



- 4 Press **↑**, **↓**, **←** or **→** to adjust the level to obtain a clear picture.



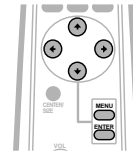
- 5 Press **MENU** to return to the original screen.

Note

- You cannot use this function for the input from VIDEO 1 IN, VIDEO 2 IN, VIDEO 3 IN and DVD IN.

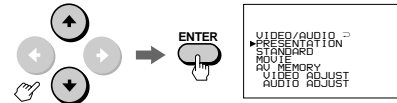
Selecting the preset picture viewing mode

The video/audio mode feature allows you to choose four different modes of picture/sound settings. Choose the one that best suits the type of program that you want to watch.

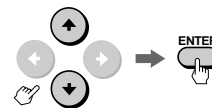


- 1 Press **MENU**.

- 2 Press **↑** or **↓** to select **VIDEO/AUDIO**, and press **ENTER**.



- 3 Press **↑** or **↓** to select the desired item, and press **ENTER**.



| Choose | To |
|--------------|--|
| PRESENTATION | Watch the picture input from a computer. |
| STANDARD | Watch the picture input from video equipment. |
| MOVIE | Watch a movie. |
| AV MEMORY | Adjust the quality of the picture/sound to suit your taste. (For details, see pages 20 to 23.) |

- 4 Press **MENU** to return to the original screen.

To reset to the factory preset setting

Press **RESET** on the monitor.

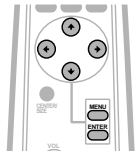
When watching a computer picture, the mode resets to **PRESENTATION**. When watching a video picture, the mode resets to **STANDARD**. At the same time, the position and size of a computer picture (pages 17 and 18) are also reset to the factory preset levels. The settings in **AV MEMORY** do not reset.

Note

- You cannot adjust the settings in modes other than **AV MEMORY**.

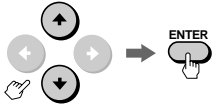
Adjusting the picture (AV MEMORY)

You can adjust the quality of the picture to suit your taste and store the settings into AV MEMORY.

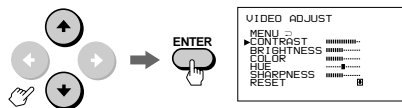


1 Press MENU.

2 Press \uparrow or \downarrow to select VIDEO/AUDIO, and press ENTER.



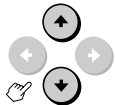
3 Press \leftarrow or \rightarrow to select VIDEO ADJUST, and press ENTER.



4 Select the item you want to adjust.

For example:

(1) To adjust the brightness, press \uparrow or \downarrow to move the cursor (▶) to BRIGHTNESS.

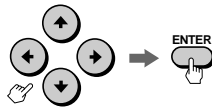


(2) Press ENTER.



5 Adjust the selected item.

Press \uparrow , \downarrow , \leftarrow or \rightarrow to adjust the item, and press ENTER.



| Item | Press \uparrow or \downarrow to | Press \leftarrow or \rightarrow to |
|------------|-------------------------------------|--|
| CONTRAST | Decrease picture contrast. | Brighten the picture. |
| BRIGHTNESS | Darken the picture. | Brighten the picture. |
| COLOR | Decrease color intensity. | Increase color intensity. |
| HUE | Make picture tones become purplish. | Make picture tones become greenish. |
| SHARPNESS | Soften the picture. | Sharpen the picture. |

6 To adjust other items, repeat steps 4 and 5.

7 Press MENU to return to the original screen.

To reset to the factory preset setting

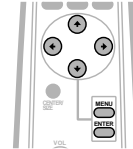
Move the cursor (▶) to RESET at the bottom of the VIDEO ADJUST menu, and press ENTER.

Notes

- When the RGB signal is input, COLOR and HUE cannot be adjusted.
- You can adjust the items in AV MEMORY for each input from VIDEO 1 IN, VIDEO 2 IN, VIDEO 3 IN, RGB 1 IN, RGB 2 IN, and DVD IN.
- You can operate the menu using the buttons on the monitor. VOLUME + functions the same as \uparrow and \downarrow , and VOLUME - as \leftarrow and \rightarrow .

Adjusting the picture in more detail

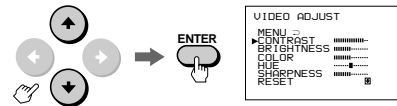
You can adjust the picture with the NR (noise reduction), H-WHITE and COLOR TEMP (temperature) options.



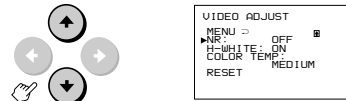
1 Press MENU.

2 Press \uparrow or \downarrow to select VIDEO/AUDIO, and press ENTER.

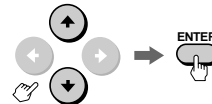
3 Press \leftarrow or \rightarrow to select VIDEO ADJUST, and press ENTER.



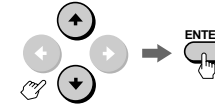
4 Press \leftarrow or \rightarrow to move the cursor (▶) to RESET, then press \downarrow again.



5 Select the desired item with \uparrow or \downarrow , then press ENTER.



6 Press \uparrow or \downarrow to adjust the item, then press ENTER.



| Choose | To |
|--------------------------------|--|
| NR (Noise Reduction) | Reduce picture noise. You can choose LOW or HIGH position. |
| H-WHITE | Emphasize the white color with the ON position. |
| COLOR TEMP (Color temperature) | Make the white color warm (reddish) with the LOW position. Make it cool (bluish) with the HIGH position. |

7 To adjust other items, repeat steps 5 and 6.

8 Press MENU to return to the original screen.

To reset to the factory preset setting

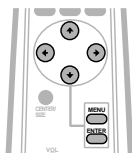
Move the cursor (▶) to RESET at the bottom of the VIDEO ADJUST menu, and press ENTER.

Notes

- You can adjust the items in AV MEMORY for each input from VIDEO 1 IN, VIDEO 2 IN, VIDEO 3 IN, RGB 1 IN, RGB 2 IN, and DVD IN.
- You can operate the menu using the buttons on the monitor. VOLUME + functions the same as \uparrow and \downarrow , and VOLUME - as \leftarrow and \rightarrow .

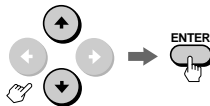
Adjusting the sound (AV MEMORY)

You can adjust the quality of the sound to suit your taste and store the settings into AV MEMORY.

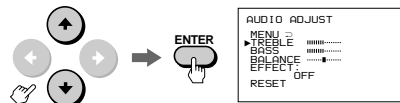


1 Press MENU.

2 Press \uparrow or \downarrow to select VIDEO/AUDIO, and press ENTER.



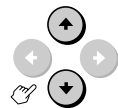
3 Press \uparrow or \downarrow to select AUDIO ADJUST, and press ENTER.



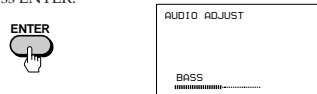
4 Select the item you want to adjust.

For example:

(1) To adjust the bass, press \uparrow or \downarrow to move the cursor (▶) to BASS.

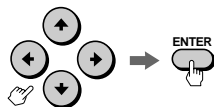


(2) Press ENTER.



5 Adjust the selected item.

Press \uparrow , \downarrow , \leftarrow or \rightarrow to adjust the item, and press ENTER.



| Item | Press \uparrow or \downarrow to | Press \leftarrow or \rightarrow to |
|---------|--------------------------------------|--|
| TREBLE | Decrease the treble response. | Increase the treble response. |
| BASS | Decrease the bass response. | Increase the bass response. |
| BALANCE | Emphasize the left speaker's volume. | Emphasize the right speaker's volume. |

6 To adjust other items, repeat steps 4 and 5.

7 Press MENU to return to the original screen.

To reset to the factory preset setting

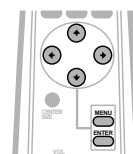
Move the cursor (▶) to RESET at the bottom of the AUDIO ADJUST menu, and press ENTER.

Notes

- You can adjust the items in AV MEMORY for each input from VIDEO 1 IN, VIDEO 2 IN, VIDEO 3 IN, RGB 1 IN, RGB 2 IN, and DVD IN.
- You can operate the menu using the buttons on the monitor. VOLUME + functions the same as \uparrow and \rightarrow , and VOLUME - as \downarrow and \leftarrow .

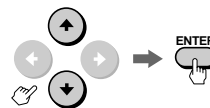
Selecting the audio effect (EFFECT)

Audio effect mode allows you to enjoy dynamic sound with surround-like effect.

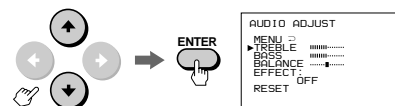


1 Press MENU.

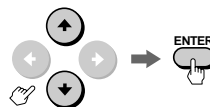
2 Press \uparrow or \downarrow to select VIDEO/AUDIO, and press ENTER.



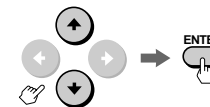
3 Press \uparrow or \downarrow to select AUDIO ADJUST, and press ENTER.



4 Press \uparrow or \downarrow to select EFFECT, and press ENTER.



5 Press \uparrow or \downarrow to select the desired item, and press ENTER.



| Choose | To |
|------------------|---|
| HALL SURROUND 1 | Receive dynamic three-dimensional sound. |
| HALL SURROUND 2 | Watch a movie. |
| SIMULATED STEREO | Receive monaural sound with surround-like effect. |
| OFF | Cancel audio effect. |

6 Press MENU to return to the original screen.

To reset to the factory preset setting

Move the cursor (▶) to RESET at the bottom of the AUDIO ADJUST menu, and press ENTER.

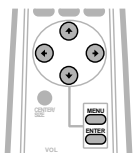
US

Notes

- You can adjust the items in AV MEMORY for each input from VIDEO 1 IN, VIDEO 2 IN, VIDEO 3 IN, RGB 1 IN, RGB 2 IN, and DVD IN.
- You can operate the menu using the buttons on the monitor. VOLUME + functions the same as \uparrow and \rightarrow , and VOLUME - as \downarrow and \leftarrow .

Turning the power off automatically (AUTO SHUT OFF)

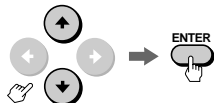
You can set the monitor to turn off when the time you specify has passed after the input of the sync signal from the computer shut off.



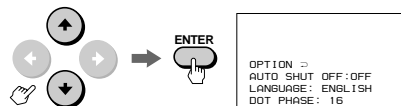
1 Press MENU.



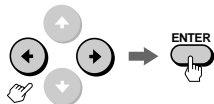
2 Press \uparrow or \downarrow to select OPTION, and press ENTER.



3 Press \uparrow or \downarrow to select AUTO SHUT OFF, and press ENTER.



4 Press \leftarrow or \rightarrow to select 60 (minutes), 90 (minutes) or 120 (minutes), and press ENTER.



5 Press MENU to return to the original screen.

After the time you specify in step 4 has passed after cancellation of the input of the sync signal, the power turns off and the STANDBY and P indicators will light up.

If you press POWER on the remote control or a signal is input from the computer again, the power will turn on.

To cancel the AUTO SHUT OFF function
 Select OFF in step 4 above.

Note

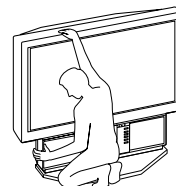
- You cannot use this function for the input from VIDEO 1 IN, VIDEO 2 IN, VIDEO 3 IN and DVD IN.

Additional Information

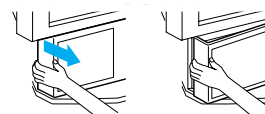
Cleaning the air filter

The air filter should be cleaned once a month. When it becomes difficult to remove the dust, replace the filter with a new one. To clean the filter, follow the steps below.

- Turn off the power switch on the monitor and unplug the power cord.
- Remove the front panel from the monitor.

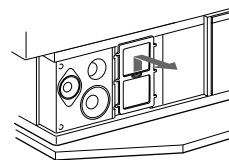


Hold the monitor tightly.

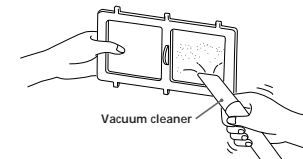


Grasping the left end of the front panel with your fingers, pull the panel towards you. Be careful not to catch your fingernails.

3 Pull the air filter upwards to remove.

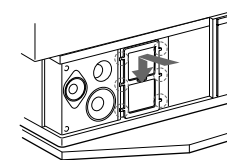


4 Remove the dust from the filter with a vacuum cleaner.



5 Attach a new filter to the monitor.

Fit the six projections securely.



6 Mount the front panel.

Be careful not to injure the speakers.

Notes

- Clean the air filter periodically. Otherwise, the temperature inside the monitor may rise abnormally.
- Do not use a torn filter. Fit the six projections on the filter to the monitor securely. Dust inside the monitor may cause distorted picture and also fire.
- Be sure to attach the air filter securely. Otherwise, the monitor will not turn on.
- Contact your Sony dealer for a new filter.

US

Replacing a lamp

If the screen becomes dark, the color looks unusual, or the LAMP indicator on the front of the monitor flashes, it is time to replace the lamp with a new one.

Disposal of the Used Lamp

Sony regards protection of the environment as extremely important.

Kindly put the used lamp in the new lamp's package and send it to the sales company whose address appears on the new lamp's warranty card.

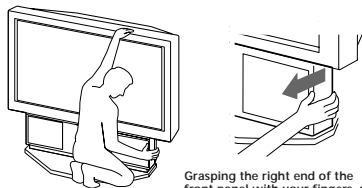
Before replacement

- Be sure to use the Sony XL-100U lamp unit (not supplied) for replacement. Use of other lamps causes damage to the monitor.
- Do not remove the lamp for any purpose other than replacement.
- Before replacement, be sure to turn off the monitor and unplug the power cord.
- When replacing the lamp, let it cool down completely, as the surface of the lamp remains hot for at least 30 minutes after the power has been switched off.
- Do not leave the removed lamp near the inflammable materials.
- Do not pour water onto the removed lamp, nor put any object inside the lamp.
- Do not put inflammable materials and metal objects inside the lamp receptacle on the monitor, after removing the lamp. Do not touch the receptacle.
- Fit the new lamp securely, otherwise the screen may become dark, or it may cause fire.

1 Turn off the power switch on the monitor and unplug the power cord.

Wait at least 30 minutes to allow the lamp to cool down before replacing it.

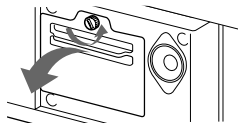
2 Remove the front panel.



Grasping the right end of the front panel with your fingers, pull the panel towards you. Be careful not to catch your fingernails.

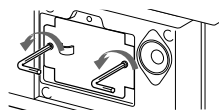
Hold the monitor tightly.

3 Untighten the screw with a coin or similar object to remove the lamp cover.

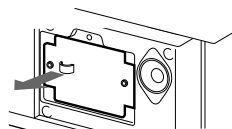


4 Loosen the two screws that secure the lamp, then pull out the lamp.

The lamp is very hot immediately after use. Never touch the front glass of the lamp or the surrounding parts.



Loosen the two screws with the hexagon head wrench (supplied with the lamp).



Pull out straight towards you by holding the handle.

Replace the removed lamp into the empty box of the replacement lamp.

5 Mount the new lamp and tighten the two screws securely.

6 Mount the lamp cover and tighten the screw.

7 Mount the front panel.

Be careful not to damage the speakers of the monitor.

Notes

- Do not touch the front glass of a new lamp or the glass of the lamp receptacle. This may reduce picture quality or lamp life.
- Be sure to attach the lamp securely. Otherwise, the monitor will not turn on.
- A loud sound may be heard when the lamp burns. This is not dangerous.
- Consult your Sony dealer for the XL-100U lamp unit.

Troubleshooting

If the problem persists after trying the methods below, contact your nearest Sony dealer.

No picture

- ➔ Check that the power cord is connected firmly.
- ➔ Is the power of the monitor turned on?
- ➔ Is the air filter mounted securely? (page 25)
- ➔ Is the lamp cover attached securely? (page 26)
- ➔ Check that the power of the connected equipment is turned on.
- ➔ Try to press any key on the connected computer.
- ➔ Check that the RGB signal cable or audio/video cords are properly connected. (The supplied HD15-HD15 adaptor may be needed for some models of IBM PC/AT or compatible computers. For a Macintosh or compatible computer use the supplied Macintosh adaptor.)
- ➔ Make sure that no pins on the HD15 connectors are bent.
- ➔ Check that the video card is seated completely in the proper bus slot.
- ➔ Check that the frequency range of the input signal is within that specified for the monitor. (If not, "OUT OF SCAN RANGE" appears on the screen.)
- ➔ The monitor does not accept an interlace mode signal.
- ➔ For customers using Windows 95/98 — If "KL-W7000A" or "KL-W9000A" is not displayed as "Monitor type" when selecting "SONY" as "Manufacturer" from the device select screen in Windows 95/98, select "Standard monitor" as "Manufacturer" and "Plug and Play monitor (VESA DDC)" as "Monitor type."

Picture and sound output are delayed

- ➔ When the green ⏻ (power) indicator on the front is flashing, the monitor is warming up.
- ➔ To protect the lamp, it will take some time for the monitor to output the picture and sound if you try to turn on the power more than 5 seconds after the power has been turned off.

Screen lit and cannot see the picture

- ➔ Be sure that you are watching the monitor within the optimum viewing area. (page 5)

Good picture, no sound

- ➔ Press VOL+ (VOLUME+).
- ➔ Press MUTING so that "MUTING" disappears from the screen. (page 14)
- ➔ The volume of the computer may be low.
- ➔ Check that the audio connecting cord is connected firmly to the audio outputs on the computer.

Fuzzy picture

- ➔ Set the NR option in the VIDEO ADJUST menu to LOW or HIGH. (page 21)
- ➔ If you use the monitor in a cold place, moisture condensation may have occurred. Leave the monitor as it is to let moisture evaporate.

Dark picture

- ➔ Replace the lamp for the light source with a new one. (page 26)

No color, abnormal color

- ➔ Adjust the picture in the VIDEO ADJUST menu. (page 20)

Double images

- ➔ Use of an extension cable, excessive cable length or loose connection can produce this symptom.

Computer picture not centered or sized properly

- ➔ Adjust the centering and size so that the picture fits the screen. (pages 17 and 18)

(continued)

Additional Information | 27-US

Distorted picture

- ➔ Check your video card manual for proper monitor setting.
 - ➔ Check that the frequency and the graphic mode at which you are trying to input is within the acceptable range. (page 9)
- Even within the proper range some video cards may have a sync pulse that is too narrow for the monitor to sync correctly.

No picture, no sound from the connected equipment

- ➔ Are all the connecting cables connected?
- ➔ Try to press the RGB or VIDEO button on the remote control. (page 13)

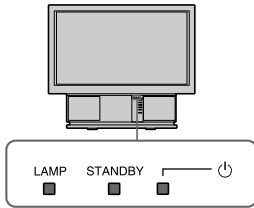
The remote control does not function.

- ➔ Are the batteries worn out?

The humming noise of fans is heard even after the monitor has been turned off.

- ➔ The fans installed inside the monitor are working to prevent internal heat build-up. They will stop about 2 minutes later.

What flashing of the indicators on the front of the monitor means



The ⏻ (power) (green), STANDBY (orange) and/or LAMP (red) indicators indicate the conditions of the monitor and warnings by lighting or flashing, as follows.

The ⏻ indicator lights.

- ➔ The power of the monitor is on.

The STANDBY indicator lights.

- ➔ The monitor is in standby mode. The monitor is turned on by pressing POWER on the remote control.

The ⏻ and STANDBY indicators light.

- ➔ The Auto Shut Off function works. The monitor has been turned off when the time you specify has passed after the input of the computer is cut off.

The ⏻ indicator flashes.

- ➔ The lamp for the light source is ready to turn on. You can obtain picture and sound after a while.

The LAMP and STANDBY indicators flash.

- ➔ The air filter or the lamp cover is not attached securely. When you correct, the STANDBY lamp lights up and the monitor enters the standby mode. (page 25 and 26)

The LAMP indicator flashes.

- ➔ The lamp for the light source burns out. Replace it with new one. (page 26)

The LAMP, STANDBY and ⏻ indicators flash.

- ➔ The temperature inside the monitor has risen abnormally, or the fans have stopped. Check that the air filter is not clogged and the ventilation holes are not blocked. After a while turn on the monitor. (page 25)

If the monitor is not recovered after correcting the problems, contact with qualified Sony personnel.

Timing chart for the Wide Resolution signals

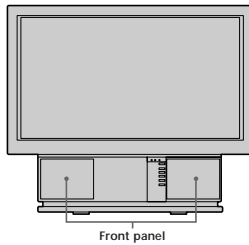
| | Wide Resolution | | |
|----------------------------|-----------------|------------|------------|
| | 864 × 480 | 1072 × 600 | 1376 × 768 |
| Pixel Clock (MHz) | 34.238 | 53.94 | 87.44 |
| Idot (nsec) | 29.207 | 18.539 | 11.436 |
| IH (μ sec) | 31.777 | 26.4 | 20.676 |
| H-Active (μ sec) | 25.235 | 19.874 | 15.736 |
| H-Blank (μ sec) | 6.542 | 6.526 | 4.94 |
| H-Front porch (μ sec) | 0.701 | 0.89 | 0.366 |
| (dots) | 24 | 48 | 32 |
| H-Sync (μ sec) | 3.738 | 3.263 | 2.104 |
| (dots) | 128 | 176 | 184 |
| H-Back porch (μ sec) | 2.103 | 2.373 | 2.47 |
| (dots) | 72 | 128 | 216 |
| H-Sync Polarity | - | - | - |
| V-TTI Time (Lines) | 525 | 628 | 806 |
| V-Addr Time (Lines) | 480 | 600 | 768 |
| V-Blank Start (Lines) | 488 | 600 | 768 |
| V-Blank Time (Lines) | 29 | 28 | 38 |
| V-Sync Start (Lines) | 490 | 601 | 771 |
| V Bottom Border (Lines) | 8 | 0 | 0 |
| V Front Porch (Lines) | 2 | 1 | 3 |
| Ver Sync Time (Lines) | 2 | 4 | 6 |
| V Back Porch (Lines) | 25 | 23 | 29 |
| V Top Border (Lines) | 8 | 0 | 0 |
| V-Sync Polarity | + | + | + |

Identifying the parts

This section briefly describes the buttons and controls on the monitor and on the remote control. For more information, refer to the pages next to each description.

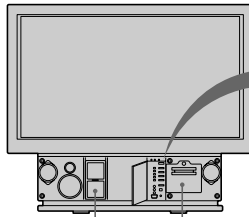
Projection monitor — Front

With the front panel attached

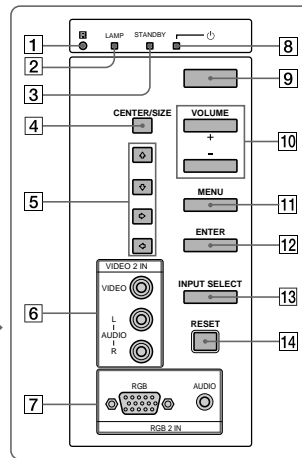


Front panel

With the front panel removed

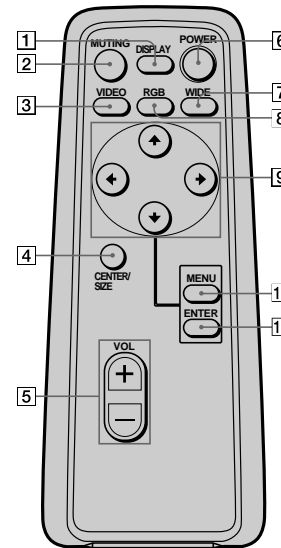


Air filter part (page 25) Lamp part (page 26)



- | | |
|--|--|
| 1 Remote sensor | 8 (power) indicator (pages 13, 24, 28) |
| 2 LAMP indicator (pages 26, 28) | 9 Power switch (page 13) |
| 3 STANDBY indicator (pages 13, 24, 28) | 10 VOLUME +/- buttons (page 13) |
| 4 CENTER/SIZE button (pages 17, 18) | 11 MENU button (page 12) |
| 5 +/- buttons (pages 17, 18) | 12 ENTER button (page 12) |
| 6 VIDEO 2 IN jacks (page 10) | 13 INPUT SELECT button (page 13) |
| 7 RGB 2 IN connector (pages 7, 8) | 14 RESET button (pages 17–19) |

Remote control



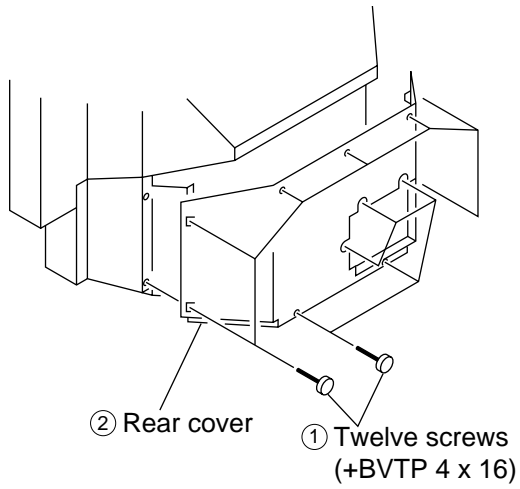
- | |
|--------------------------------------|
| 1 DISPLAY button (page 14) |
| 2 MUTING button (page 14) |
| 3 VIDEO button (page 13) |
| 4 CENTER/SIZE button (pages 17, 18) |
| 5 VOL (volume) +/- buttons (page 13) |
| 6 POWER button (page 13) |
| 7 WIDE button (pages 14, 16) |
| 8 RGB button (page 13) |
| 9 ↑/↓/←/→ buttons (pages 12, 17) |
| 10 MENU button (page 12) |
| 11 ENTER button (page 12) |

US

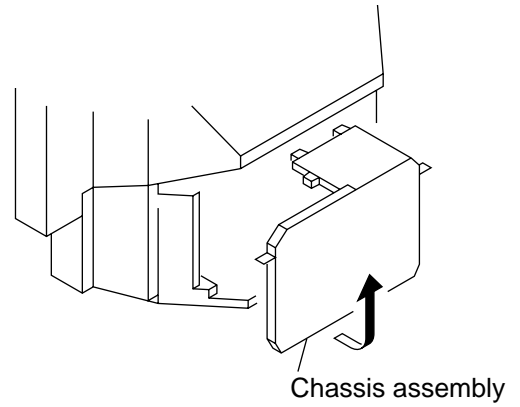
(continued)

SECTION 3 DISASSEMBLY

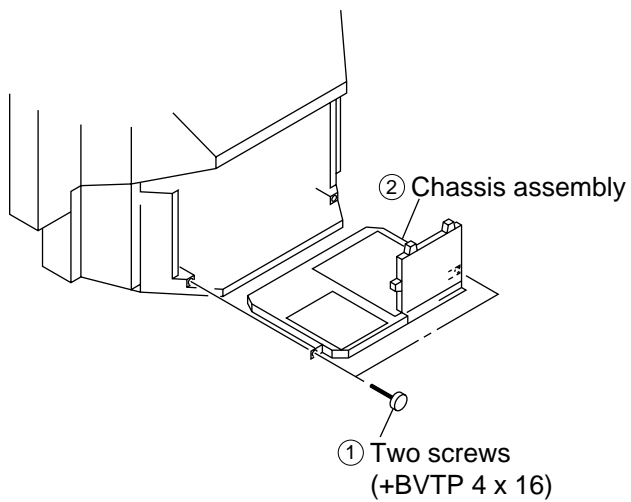
3-1. REAR COVER REMOVAL



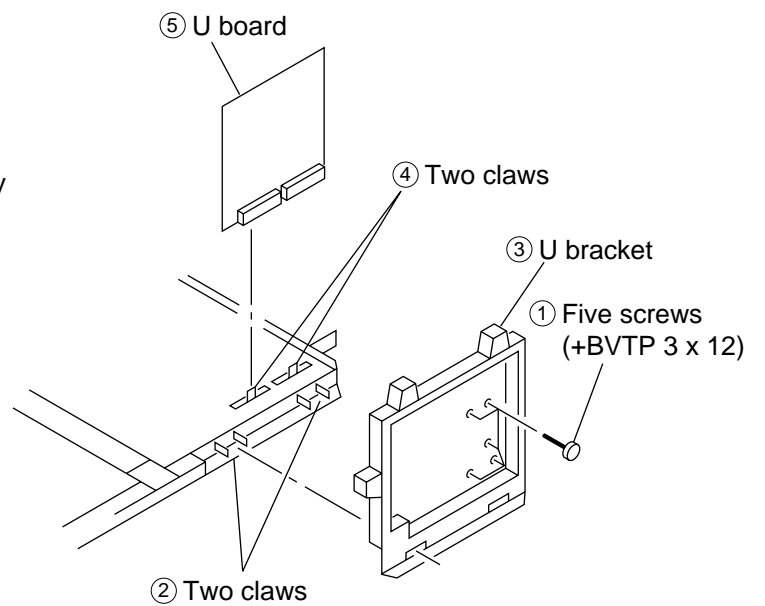
3-3. SERVICE POSITION



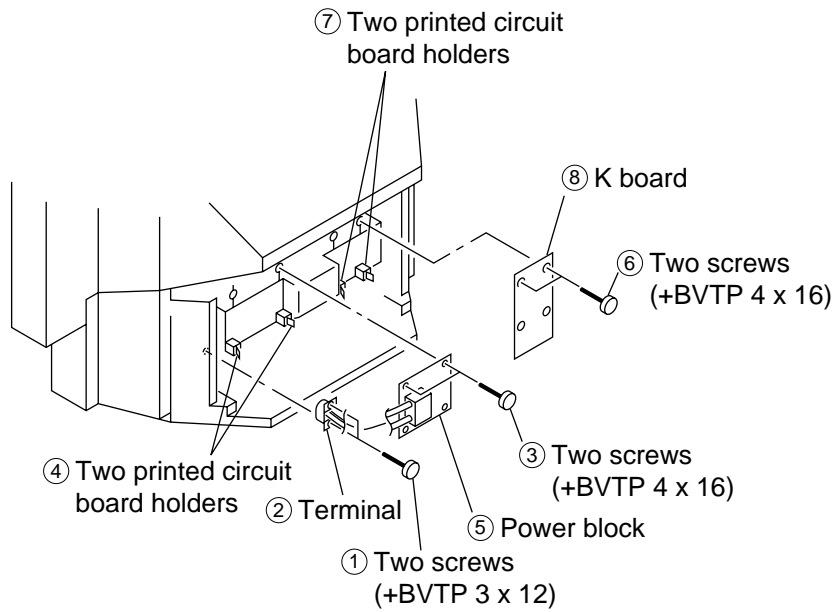
3-2. CHASSIS ASSEMBLY REMOVAL



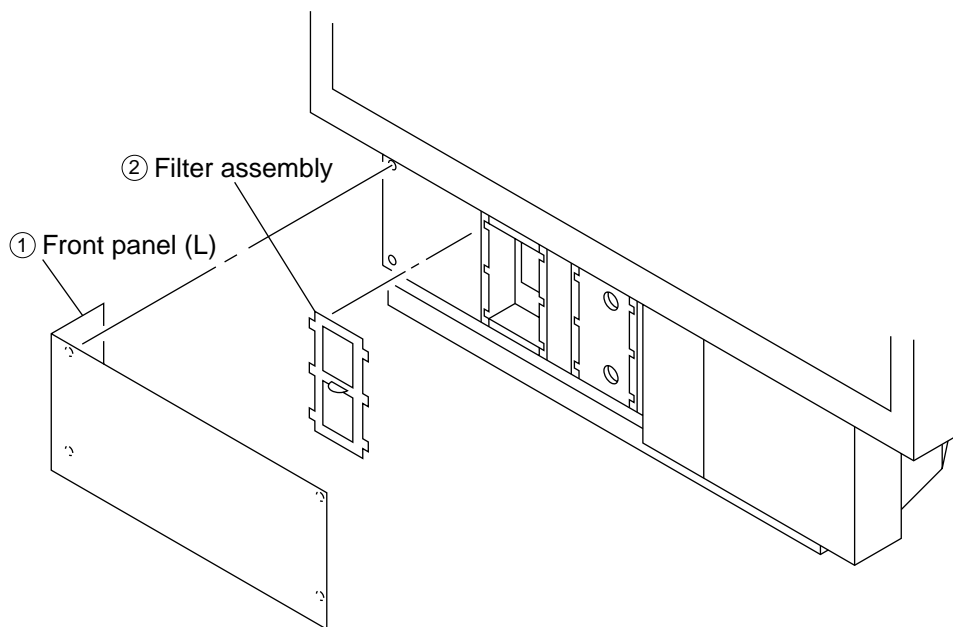
3-4. U BOARD REMOVAL



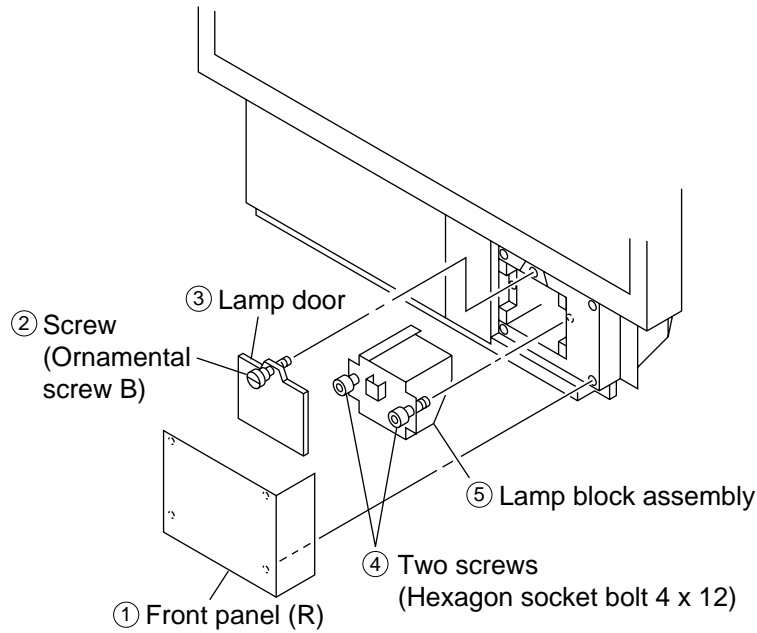
3-5. POWER BLOCK AND K BOARD REMOVAL



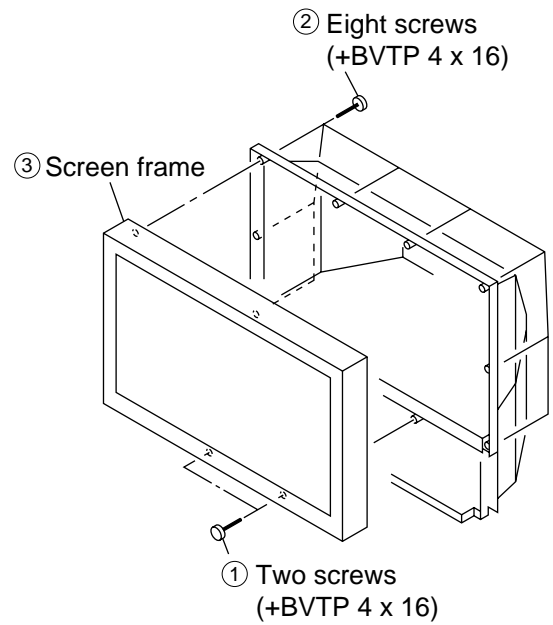
3-6. FILTER ASSEMBLY REMOVAL



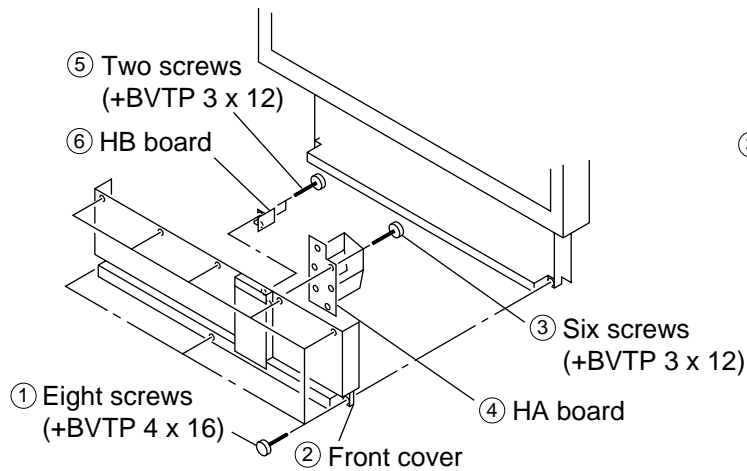
3-7. LAMP BLOCK ASSEMBLY REMOVAL



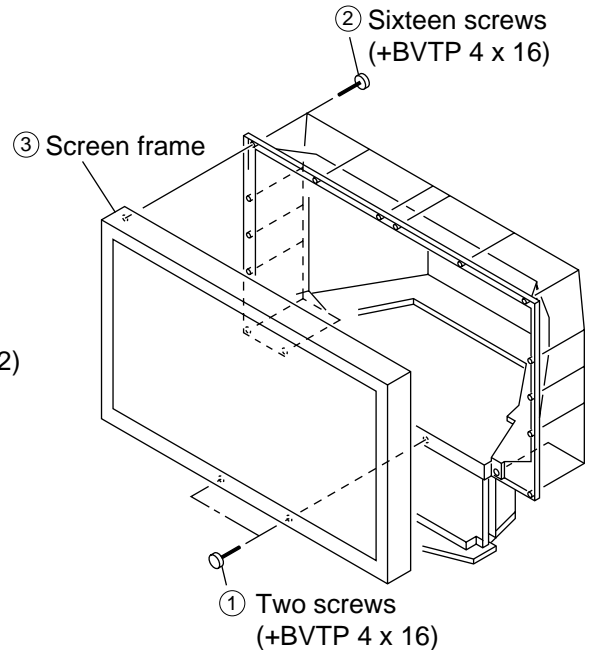
3-9-1. SCREEN FRAME REMOVAL [W7000A]



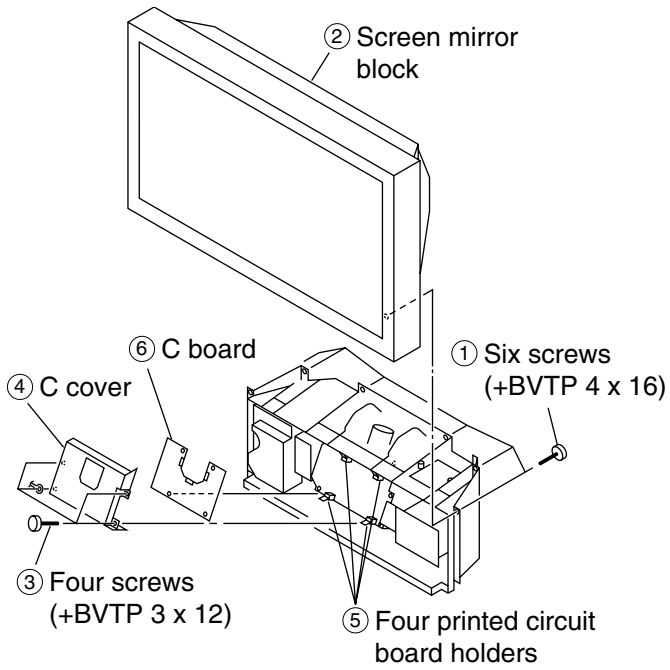
3-8. HA AND HB BOARDS REMOVAL



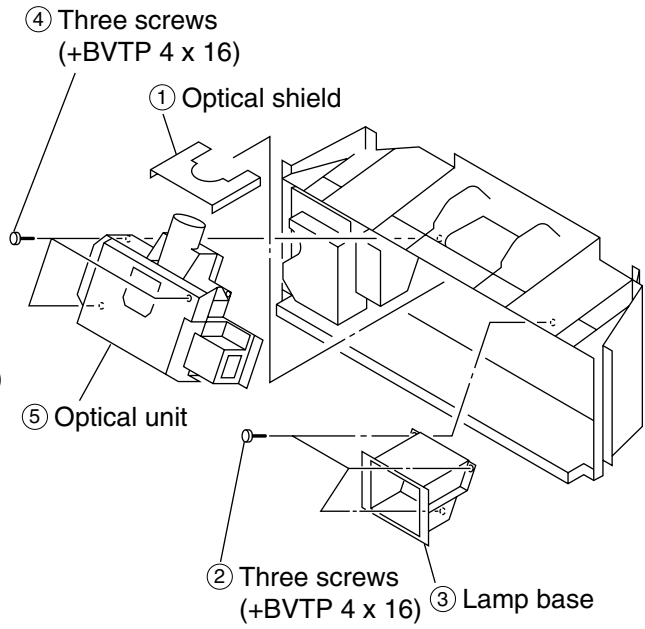
3-9-2. SCREEN FRAME REMOVAL [W9000A]



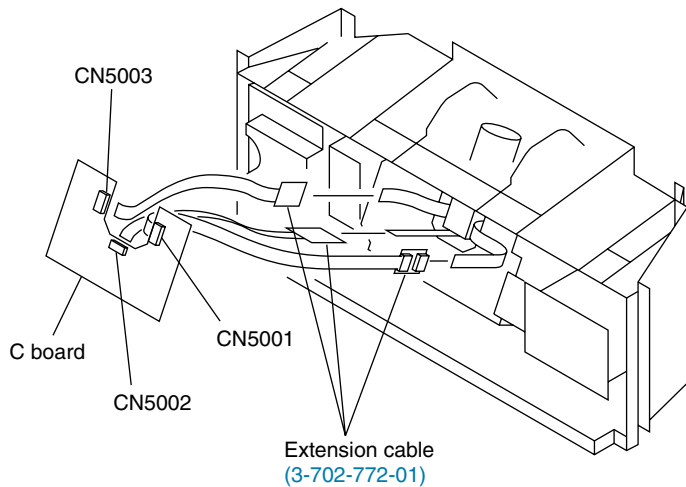
3-10-1. C BOARD REMOVAL



3-11. OPTICAL UNIT REMOVAL



3-10-2. EXTENSION CABLE (C BOARD)

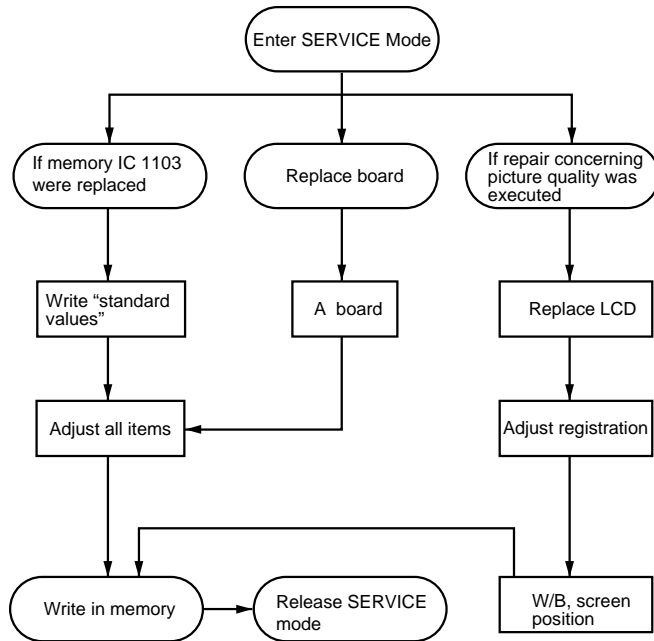


SECTION 4 CIRCUIT ADJUSTMENTS

ELECTRICAL ADJUSTMENT IN SERVICE MODE

The SERVICE mode cannot be entered with the remote commander RM-Y980 attached to this set. Use the commander of other TV set.

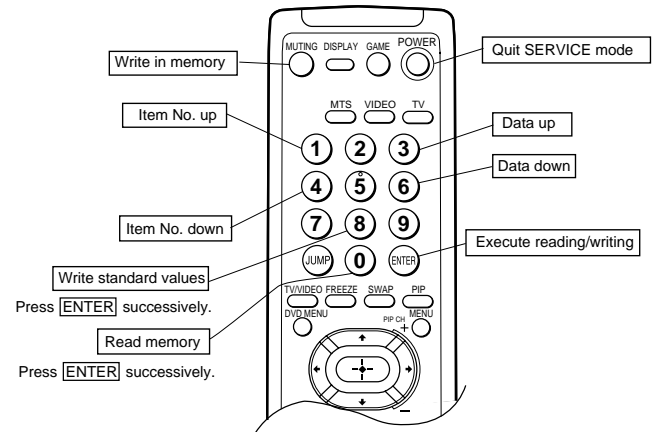
Adjustment in SERVICE mode



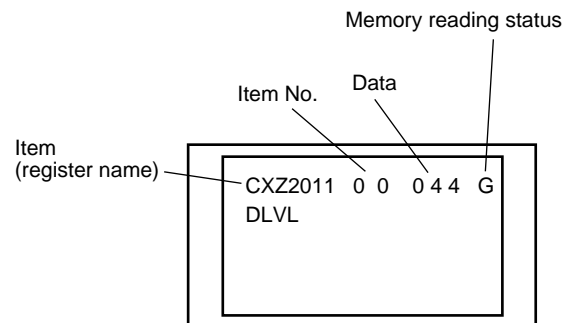
- Note:
- Write data in the memory each time when one item was adjusted.
 - Adjusted data are not saved if the power is turned off before they are written in the memory.

Function of commander in SERVICE mode

* Example of SERVICE mode using the commander of other TV set



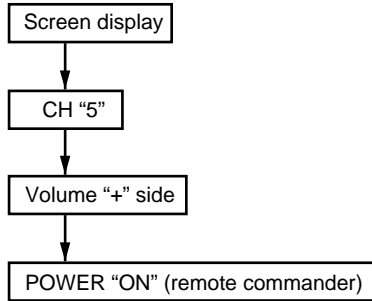
Screen in SERVICE mode



G: Memory reading normal
NG: Memory reading failed

BASIC ADJUSTMENT IN SERVICE MODE

1. To enter SERVICE mode
 - 1) Turn the POWER switch on the TV set "ON", then make it in standby status with the remote commander.
 - 2) Operate the remote commander as follows:



2. To read the memory
 - 1) Enter SERVICE mode.
 - 2) Press [0] → [ENTER] buttons on the remote commander, and the adjusted values and set values of all items written in the memory are read out.

Note: If the memory IC was replaced, do not read the memory before writing standard values.

3. Adjustment of screen
 - 1) Select the item No. to be adjusted using [1] and [4] buttons on the remote commander.
 - 2) Adjust with [3] and [6] buttons so as to satisfy the picture quality and the set values.
4. To write data in the memory
 - After adjustment, press "MUTING" [ENTER] buttons to write data in the memory. Press [ENTER] button while green "WRITE" is displayed on the screen (within about 3 seconds).

Color of WRITE characters on screen

When [MUTING] button ON Green

When [ENTER] button ON Red

5. To release SERVICE mode
 - Turn off the POWER switch on TV set and again turn it on. As a result, the SERVICE mode display is cleared and normal TV mode is resumed.
 - Or, turn off the POWER switch from the remote commander and again turn on the POWER switch on the remote commander in the standby status. As a result, the SERVICE mode display is cleared and normal TV mode is resumed.

6. To write +standard values+
 - 1) Enter SERVICE mode.
 - 2) Press [8] button, and green +INIT+ is displayed at the upper right of screen. Successively, press [ENTER] button while this characters are displayed (within about 3 seconds). Green characters change to red +INIT+, then the screen becomes blank, and after about 5 seconds, the RGB 1 is selected and the operation stops. At this time, green +G+ is displayed. When +standard values+ writing is executed, the standard data in the microprocessor on the selected channel are written in the memory. Thus, the initialization is made.

Note: Writing of +standard values+ must be executed initially, only if the memory IC 2008 and 2009 were replaced.

SERVICE LIST

CXA2011Q

| Item Display | Register Name | Range | Standard Values | | | Typical Standard Values |
|--------------|--|-------|-----------------|-----|-----|---|
| | | | VIDEO | RGB | DVD | |
| 0 DLVL | DRIVE LEVEL | 0-63 | 44 | | | 44 2 kinds, RGB 3ch gain control |
| 1 SW2 | SW2 | 0,1 | 0 | | | 0 1 kind |
| 2 SW1 | SW1 | 0,1 | 0 | | | 0 1 kind |
| 3 SW0 | SW0 | 0,1 | 0 | | | 0 1 kind |
| 4 SBOF | SUB BRI OFFSET | 0-63 | 23 | 43 | 43 | 3 kinds. Offset of VIDEO/RGB/DVD SUB BRIGHT 0=-31, . . . , 63=+31 |
| 5 RDOF | R DRIVE OFFSET | 0-63 | 31 | 31 | 31 | 3 kinds. VIDEO/RGB/DVD R DRIVE |
| 6 GDOF | G DRIVE OFFSET | 0-63 | 31 | 31 | 31 | 3 kinds. VIDEO/RGB/DVD G DRIVE |
| 7 BDOF | B DRIVE OFFSET | 0-63 | 31 | 31 | 31 | 3 kinds. VIDEO/RGB/DVD B DRIVE |
| 8 RDMD | R DRIVE OFFSET (color temp. "middle") | 0-63 | 32 | | | 32 1 kind. Offset of R color temp. "middle" (center value 31) |
| 9 GDMD | G DRIVE OFFSET (color temp. "middle") | 0-63 | 31 | | | 31 1 kind. Offset of G color temp. "middle" (center value 31) |
| 10 BDMD | B DRIVE OFFSET (color temp. "middle") | 0-63 | 28 | | | 28 1 kind. Offset of B color temp. "middle" (center value 31) |
| 11 RDLO | R DRIVE OFFSET (color temp. "low") | 0-63 | 34 | | | 34 1 kind. Offset of R color temp. "low" (center value 31) |
| 12 GDLD | G DRIVE OFFSET (color temp. "low") | 0-63 | 31 | | | 31 1 kind. Offset of G color temp. "low" (center value 31) |
| 13 BDLO | B DRIVE OFFSET (color temp. "low") | 0-63 | 24 | | | 24 1 kind. Offset of B color temp. "low" (center value 31) |

WB (CXA1315)

| Item Display | Register Name | Range | Standard Values | | | Typical Standard Values |
|--------------|--|-------|-----------------|-----------|-----------|---|
| | | | VIDEO | RGB | DVD | |
| 0 RCOI | Red Cut Off | 0-255 | 124 (VIDEO) | 124 (RGB) | 124 (DVD) | 3 kinds : Red white balance |
| 1 RCOI | Green Cut Off | 0-255 | 124 (VIDEO) | 124 (RGB) | 124 (DVD) | 3 kinds : Green white balance (GCO center) |
| 2 BCOI | Blue Cut Off | 0-255 | 124 (VIDEO) | 124 (RGB) | 124 (DVD) | 3 kinds : Blue white balance |
| 3 RCOM | Red Cut Off OFFSET (color temp. "middle") | 0-255 | 132 | | | Red W/B of color temp. "middle" (center value 31) |
| 4 GCOM | Green Cut Off OFFSET (color temp. "middle") | 0-255 | 127 | | | Green W/B of color temp. "middle" (center value 31) |
| 5 BCOM | Blue Cut Off OFFSET (color temp. "middle") | 0-255 | 123 | | | Blue W/B of color temp. "middle" (center value 31) |
| 6 RCOL | Red Cut Off OFFSET (color temp. "low") | 0-255 | 138 | | | Red W/B of color temp. "low" (center value 31) |
| 7 RCOL | Green Cut Off OFFSET (color temp. "low") | 0-255 | 127 | | | Green W/B of color temp. "low" (center value 31) |
| 8 BCOL | Blue Cut Off OFFSET (color temp. "low") | 0-255 | 118 | | | Blue W/B of color temp. "low" (center value 31) |

BIAS3 (CXA1315)

| Item Display | Register Name | Range | Standard Values | | | Typical Standard Values |
|--------------|---------------------|-------|----------------------------------|--------------------------------|--------------------------------|---|
| 0 RLBS | RL_Bias | 0-255 | 0 (VIDEO) | 0 (RGB) | 0 (DVD) | RL Bias (3 systems of VIDEO, RGB, DVD) |
| 1 BLBS | RL_Bias | 0-255 | 0 (VIDEO) | 0 (RGB) | 0 (DVD) | BL Bias (3 systems of VIDEO, RGB, DVD) |
| 2 RHBS | RL_Bias | 0-255 | 255 (VIDEO) | 255 (RGB) | 255 (RGB) | RH Bias (3 systems of VIDEO, RGB, DVD) |
| 3 BHBS | BH_Bias | 0-255 | 255 (VIDEO) | 255 (RGB) | 255 (RGB) | BH Bias (3 systems of VIDEO, RGB, DVD) |
| 4 RLBM | RL_Bias off set MID | 0-255 | 131 | | | RL Bias offset value of color temp. "middle" (center value 31) |
| 5 BLBM | BL_Bias off set MID | 0-255 | 121 | | | BL Bias offset value of color temp. "middle" (center value 31) |
| 6 RHBM | RH_Bias off set MID | 0-255 | 127 | | | RH Bias offset value of color temp. "middle" (center value 31) |
| 7 BHBM | BH_Bias off set MID | 0-255 | 127 | | | BH Bias offset value of color temp. "middle" (center value 31) |
| 8 RLBM | RL_Bias off set LOW | 0-255 | 136 | | | RL Bias offset value of color temp. "low" (center value 31) |
| 9 BLBL | BL_Bias off set LOW | 0-255 | 115 | | | BL Bias offset value of color temp. "low" (center value 31) |
| 10 RHBM | RH_Bias off set LOW | 0-255 | 127 | | | RH Bias offset value of color temp. "low" (center value 31) |
| 11 BHBL | BH_Bias off set LOW | 0-255 | 127 | | | BH Bias offset value of color temp. "low" (center value 31) |
| 12 SLSH | Sample Phase | 0-7 | 3 (VIDEO 4:3), 4 (VIDEO 16:9) | 3 (RGB 4: 3), 4 (RGB 16: 9) | 3 (DVD 4: 3), 4 (DVD 16: 9) | 4 kinds of SLSH (VIDEO, RGB) × (NORMAL, FULL) |

A_OUT (NVM A2 DATA)

| Item Display | Register Name | Range | Standard Values | Typical Standard Values |
|--------------|---------------|-------|-----------------|---------------------------|
| 0 RDON | NTSC RDOF | 0-63 | 31 | NVM A2 Data of address 00 |
| 1 GDON | NTSC GDOF | 0-63 | 31 | Data of address 01 |
| 2 BDON | NTSC BDOF | 0-63 | 31 | Data of address 02 |
| 3 RCON | NTSC RCOI | 0-255 | 124 | Data of address 03 |
| 4 GCON | NTSC GCOI | 0-255 | 124 | Data of address 04 |
| 5 BCON | NTSC BCOI | 0-255 | 31 | Data of address 05 |
| 6 RDOH | RGB RDOF | 0-63 | 31 | Data of address 06 |
| 7 GDON | RGB GDOF | 0-63 | 31 | Data of address 07 |
| 8 BDON | RGB BDOF | 0-63 | 31 | Data of address 08 |
| 9 RCON | RGB RCOI | 0-255 | 124 | Data of address 0B |
| 10 GCOH | RGB GCOI | 0-255 | 124 | Data of address 0A |
| 11 BCOH | RGB BCOI | 0-255 | 124 | Data of address 09 |
| 12 RDOD | DVD RDOF | 0-63 | 31 | NVM A2 Data of adress 0C |
| 13 GDOD | DVD GDOF | 0-63 | 31 | NVM A2 Data of adress 0D |
| 14 BDOD | DVD BDOF | 0-63 | 31 | NVM A2 Data of adress 0E |
| 15 ROOD | DVD RCOI | 0-255 | 124 | NVM A2 Data of adress 11 |
| 16 GCOD | DVD GDOI | 0-255 | 124 | NVM A2 Data of adress 10 |
| 17 BCOD | DVD BCOI | 0-255 | 124 | NVM A2 Data of adress 0F |

CXA1839

| Item Display | Register Name | Range | Standard Values | | | Typical Standard Values |
|--------------|----------------|-------|-----------------|-----|-----|---|
| | | | VIDEO | RGB | DVD | |
| 0 SHUE | SUB-HUE | 0-15 | 8 | 8 | 8 | 3 kinds (VIDEO, RGB, DVD) |
| 1 SBRT | SUB-BRT | 0-15 | 8 | 8 | 8 | 3 kinds (VIDEO, RGB, DVD) |
| 2 R-Y/R | R-Y/R | 0-15 | 0 | 0 | 0 | 3 kinds (VIDEO, RGB, DVD) |
| 3 R-Y/B | R-Y/B | 0-15 | 8 | 15 | 15 | 3 kinds (VIDEO, RGB, DVD) |
| 4 G-Y/R | G-Y/R | 0-15 | 15 | 15 | 15 | 3 kinds (VIDEO, RGB, DVD) |
| 5 G-Y/B | G-Y/B | 0-15 | 8 | 0 | 0 | 3 kinds (VIDEO, RGB, DVD) |
| 6 SPC2 | SUB-CON2 | 0-15 | 8 | 8 | 8 | 3 kinds (VIDEO, RGB, DVD) |
| 7 SCL2 | SUB-COL2 | 0-15 | 8 | 8 | 8 | 3 kinds (VIDEO, RGB, DVD) |
| 8 RGB2 | RGB2_LEVEL | 0-15 | 11 | | | 1 kind |
| 9 SSHP | SUB-SHP | 0-3 | 3/3 | 1 | 1 | 6 kinds (VIDEO, RGB, DVD) × (NORMAL, WIDE) |
| 10 SHPF | SHP-F0 | 0-3 | 2/2 | 1 | 1 | 6 kinds (VIDEO, RGB, DVD) × (NORMAL, WIDE) |
| 11 PREL | PRE_OVER | 0-3 | 3/3 | 3 | 3 | 6 kinds (VIDEO, RGB, DVD) × (NORMAL, WIDE) |
| 12 Y-DC | DC-TRAN | 0-15 | 0 | 0 | 0 | 3 kinds, transmission rate of DC. (VIDEO, RGB, DVD) |
| 13 DPIX | DYNAMIC-PIC | 0-3 | 0 | 0 | 0 | 3 kinds, Auto pedestal. (VIDEO, RGB, DVD) |
| 14 CECL | CEC_LEVEL | 0-3 | 3 | 1 | 1 | 3 kinds, Chroma edge clear. (VIDEO, RGB, DVD) |
| 15 RHUE | RGB HUE | 0-63 | – | 31 | 31 | 2 kind, Hue adjustment at RGB, DVD input. |
| 16 RCOL | RGB COLOR | 0-63 | – | 31 | 31 | 2 kind, Color adjustment at RGB, DVD input. |
| 17 RSHP | RGB SHAPNESS | 0-63 | – | 25 | 25 | 1 kind, Sharpness adjustment at RGB input. |
| 18 SHPP | SHARP PRESEN. | 0-63 | 35 | 25 | 25 | 1 kind, AI mode, PRESENTATION sharpness value |
| 19 SHPS | SHARP STANDARD | 0-63 | 31 | 25 | 25 | 1 kind, AI mode, STANDARD sharpness value |
| 20 SHPM | SHARP MOVIE | 0-63 | 27 | 31 | 31 | 1 kind, AI mode, MOVIE sharpness value |

CXD2052 (Digital Chroma Decoder)

| Item Display | Register Name | Range | Standard Values | | Typical Standard Values |
|--------------|---------------|-------|-----------------|-------|-------------------------|
| | | | VIDEO | RGB | |
| 0 ACR | ACR | 0-255 | 53 | | 35h |
| 1 AKO | AKO | 0-255 | 20 | | 24h |
| 2 AKF | AKF | 0-255 | 50 | | 32h |
| 3 PKO | PKO | 0-255 | 252 | | FCh |
| 4 PKF | PKF | 0-255 | 16 | | 10h |
| 5 OFS | OFS | 0-255 | 128 | | 80h |
| 6 BPF1 | BPF1 | 0-1 | 0(C) | 1(S) | 2 kinds of S/COMP |
| 7 BPF2 | BPF2 | 0-1 | 0(C) | 0(S) | 2 kinds of S/COMP |
| 8 TRAP | TRAP | 0-1 | 0 | | 0 |
| 9 HPF | HFP | 0-7 | 4(VIDEO) | | 2 kinds of VIDEO/RGB |
| 10 FCP | FCOP | 0-1 | 0 | | 0 |
| 11 DCON | DCON | 0-1 | 0 | | 0 |
| 12 F2CC | F2CCH | 0-1 | 0 | | 0 |
| 13 EDTV | EDTV | 0-1 | 1 | | 1 |
| 14 KILL | KILL | 0-1 | 0 | | 0 |
| 15 APCO | APCOF | 0-1 | 0 | | 0 |
| 16 XFH | XFH | 0-1 | 0(C) | 0(S) | 2 kinds of S/COMP |
| 17 TA | TA | 0-31 | 16 | | 1ch |
| 18 TB | TB | 0-63 | 38(C) | 58(C) | 2 kinds of S/COMP |
| 19 TD | TD | 0-63 | 42(C) | 55(C) | 2 kinds of S/COMP |
| 20 TE | TB | 0-63 | 23(C) | 55(S) | 2 kinds of S/COMP |

3C (3-Dimensional Com μ PD6487)

| Item Display | Register Name | Range | Standard Values | | | Typical Standard Values |
|--------------|---------------|-------|-----------------|--------------|-------|---|
| | | | Others | PRESENTATION | MOVIE | |
| 0 MS | MS1, MS0 | 0-3 | 0 | | | 00 00 : Normal, 01 : 2D, 10 : 3D |
| 1 BPFS | BPFS | 0-1 | 0 | | | 0 0 : Normal, 1 : Band-pass YC separation |
| 2 YDLL | YDELAYL | 0-7 | 2/2 | | | 1 Kind Output delay designation |
| 3 HRD | HRD8-1 | 0-255 | 21 | | | 21 (2Ah) 21 (2A) : B lock only |
| 4 DYCO | DYCOR | 0-15 | 5/5 | | | 1 Kind DY detection coaring level |
| 5 DYGA | DYGAIN | 0-15 | 8/8 | | | 1 Kind DY detection gain |
| 6 DCCO | DCCOR | 0-15 | 5/5 | | | 1 Kind DC detection coaring level |
| 7 DCGA | DCGAIN | 0-15 | 6/6 | | | 1 Kind DC detection gain |
| 8 VTR | VTR1, VTR0 | 0-3 | 0 | | | 00 00 : Normal, 01 : Standard, 10 : Non-Standard |
| 9 VTRR | VTRR | 0-31 | 7/7 | | | 1 Kind VTR detection level |
| 10 LDS | LDSOFF | 0-1 | 0 | | | 0 LD still detect selection |
| 11 HSDR | HSDR | 0-31 | 7/7 | | | 1 Kind Sync detection level |
| 12 BSDR | BSDR | 0-31 | 7 | | | 7 Sync detection level |
| 13 WSCO | WSCOR | 0-7 | 7/7 | | | 1 Kind Weak field detection coaring level |
| 14 WSD1 | WSDR1 | 0-15 | 15/15 | | | 1 Kind Weak field detection level 1 |
| 15 WSD2 | WSDR2 | 0-15 | 15/15 | | | 1 Kind Weak field detection level 2 |
| 16 VAPG | VAPGAIN | 0-7 | 4/4 | 7/7 | 0/0 | 2 Kinds V aperture gain *1 |
| 17 VAPI | VAPINV | 0-31 | 12/12 | 20/20 | 12/12 | 2 Kinds V aperture inversion point *1 |

*1 : 6 kinds of (STANDARD/AV MEMORY, PRESENTATION, MOVIE) × (NORMAL/FULL, OTHERS)

1C (3-Dimensional Com μ PD6486)

| Item Display | Register Name | Range | Standard Values | | | Typical Standard Values |
|--------------|---------------|-------|-----------------|---------|-------|-------------------------|
| | | | Others | Presen. | Movie | |
| 0 MS | MS1, MS0 | 0-3 | 0 | | | |
| 1 BPFS | BPFS | 0-1 | 0 | | | |
| 2 YDLL | YDELAYL | 0-7 | 2/2 | | | |
| 3 HRD | HRD8-1 | 0-256 | 21 | | | |
| 4 DYCO | DYCOR | 0-15 | 5/5 | | | |
| 5 DYGA | DYGAIN | 0-15 | 8/8 | | | |
| 6 DCCO | DCCOR | 0-15 | 5/5 | | | |
| 7 DCGA | DCGAIN | 0-15 | 6/6 | | | |
| 8 VTR | VTR1, VTR0 | 0-3 | 0 | | | |
| 9 VTRR | VTRR | 0-31 | 7/7 | | | |
| 10 LDS | LDSOFF | 0-1 | 0 | | | |
| 11 HSDR | HSDR | 0-31 | 7/7 | | | |
| 12 BSDR | BSDR | 0-31 | 7 | | | |
| 13 WSCO | WSCOR | 0-7 | 7/7 | | | |
| 14 WSD1 | WSDR1 | 0-15 | 15/15 | | | |
| 15 WSD2 | WSDR2 | 0-15 | 15/15 | | | |
| 16 VAPG | VAPGAIN | 0-7 | 4/4 | 7/7 | 0/0 | NORMAL, FULL/OTHERS |
| 17 VAPI | VAPINV | 0-31 | 12/12 | 20/20 | 12/12 | NORMAL, FULL/OTHERS |

MID2 (CXD2072Q VIDEO)

| Item Display | Register Name | Range | Standard Values | | | | Typical Standard Values |
|-----------------|----------------------------------|-------|-----------------|------|----------|----------|--|
| | | | NORMAL/FULL | ZOOM | SUBTITLE | WIDEZOOM | |
| 0 HSIZE | HSIZEA | 0-255 | 88 | | | | Every input signal: H size adj. (NTSC) |
| 1 VGAH | VGAHS | 0-127 | 0 | | | | Every input signal polarity + Wide screen: H size adj. (RGB) |
| 2 HPOS | HPOSIA | 0-255 | 36 | | | | Every input signal: H position adj. (READ) |
| 3 VSIZ | VSIZEA | 0-255 | F0 | 38 | 0 | 0 | Every input signal polarity + Wide screen: V size adj. |
| 4 VPOS | VPOSIA | 0-255 | 28 | | | | Every input signal: V position adj. (READ) |
| 5 HPHS | HPHASA | 0-255 | 44 | | | | Every input signal polarity + Wide screen: H posi adj. (WRITE) |
| 6 VPHS | VPHASA | 0-255 | 0A | 17 | 17 | 0F | Every input signal polarity + Wide screen: V posi adj. (WRITE) |
| 7 WONA | WONA | 0-1 | 0 | | | | Every input signal: MOVIE/STILL switching |
| 8 OSCA | OSCA | 0-1 | 1 | | | | Every input signal: Masking range switching |
| 9 DLYA | DELAYA | 0-7 | 3 | | | | Every input signal: Color difference delay adj. (INPUT) |
| 10HVS | HVS | 0-3 | 2 | | | | Every input signal: Output Sync signal switching |
| 11YSDY | YSDY | 0-7 | 2 | | | | Every input signal: YS delay adj. |
| 12DLY | DELAY | 0-7 | 4 | | | | Every input signal: Color difference delay adj. (OUTPUT) |
| 13HBLK | HBLK | 0-255 | 89 | | | | Every input signal: H blanking adj. |
| 14VBLK | VBLK | 0-255 | 1F | | | | Every input signal: V blanking adj. |
| 15IPVA | IPVA | 0-1 | 0 | | | | Every input signal: Vertical linear interpolation |
| 16OFST | OFFSET | 0-255 | 0 | | | | Every input signal: Linear interpolation offset setting |
| 17VSCA | VSCA | 0-1 | 0 | 1 | 1 | 1 | Every input signal: A ch vertical size |
| 18OSVA | OSVA | 0-1 | 1 | | | | Every input signal: A ch vertical offset |
| 19PLL1 | PLL1 | 0-7 | 0 | | | | Every input signal: PLL 1 frequency dividing ratio setting |
| 20YUV | YUV | 0-3 | 0 | | | | Every input signal: YUV signal sampling ratio |
| 21REF | REF | 0-7 | 0 | | | | Every input signal: V size reference value |
| 22CLPD | CLPDA | 0-255 | 28 | | | | Every input signal: A ch clamp position adj. |
| 23HPH0 | bit 0 of HPHASA | 0-1 | 0 | | | | Every input signal polarity + Wide screen: H posi adj. (WRITE) |
| 24HPH0 | bit 0 of VPHASA | 0-1 | 0 | | | | Every input signal polarity + Wide screen: V posi adj. (WRITE) |
| 25HCOF | H CENT OF. | 0-63 | - | | | | Every input signal: H center offset |
| 26H0OF | bit 0 of H CENT OF. | 0-1 | - | | | | Every input signal: H center offset (bit 0) |
| 27VCOF | V CENT OF. | 0-63 | - | | | | Every input signal: V center offset |
| 28V0OF | bit 0 of V CENT OF. | 0-1 | - | | | | Every input signal: V center offset (bit 0) |
| 29HSOF | H SIZE OF. | 0-63 | - | | | | Every input signal: H size offset |
| 30VSOF | V SIZE OF. | 0-255 | - | | | | Every input signal: V size offset |
| 31HPR3 | HPOSIA REF3 | 0-255 | - | | | | HPOSIA value when REF=3 of user preset signal |
| 32HPR4 | HPOSIA REF4 | 0-255 | - | | | | HPOSIA value when REF=4 of user preset signal |
| 33HPR5 | HPOSIA REF5 | 0-255 | - | | | | HPOSIA value when REF=5 of user preset signal |
| 34SCOF | V SCROLL OF. | 0-31 | - | 0A | 0A | 0A | Every wide screen: V scroll offset |
| 35S0OF | bit 0 of V SCROLL OF. | 0-1 | - | 0 | 0 | 0 | Every wide screen: V scroll offset (bit 0) |
| 36SCRS | V SCROLL Standard value | 0-63 | - | 17 | 17 | 0F | Every wide screen: V scroll standard value |
| 37S0RS | bit 0 of V SCROLL Standard value | 0-1 | - | 0 | 0 | 0 | Every wide screen: V scroll standard value (bit 0) |

MID2 (CXD2072Q RGB (1))

| Item Display | Register Name | Range | Standard Values | | | | | Typical Standard Values | |
|-----------------|------------------|----------------------------------|-----------------|------|-------|-------|-------|-------------------------|--|
| | | | VGAT350 | VGAG | W-VGA | VGA72 | VGA75 | | |
| 0 | HSIZ | HSIZEA | 0-255 | | | | | A0 | Every input signal: H size adj. (NTSC) |
| 1 | VGAAH | VGAHS | 0-127 | 2F | 30 | 2E | 2F | 2B | Every input signal polarity + Wide screen: H size adj. (RGB) |
| 2 | HPOS | HPOSIA | 0-255 | 2E | 2E | 2D | 2E | 2A | Every input signal: H position adj. (READ) |
| 3 | VSIZ | VSIEA | 0-255 | 3 | | | | | Every input signal polarity + Wide screen: V size adj. |
| 4 | VPOS | VPOSIA | 0-255 | 38 | 1E | 1E | 1E | 1E | Every input signal: V position adj. (READ) |
| 5 | HPHS | HPHASA | 0-255 | 42 | 42 | 43 | 4E | 52 | Every input signal polarity + Wide screen: H posi adj. (WRITE) |
| 6 | VPHS | VPHASA | 0-255 | 3 | 8 | 8 | 6 | 0 | Every input signal polarity + Wide screen: V posi adj. (WRITE) |
| 7 | WONA | WONA | 0-1 | 0 | | | | | Every input signal: MOVIE/STILL switching |
| 8 | OSCA | OSCA | 0-1 | 1 | | | | | Every input signal: Masking range switching |
| 9 | DLYA | DELYA | 0-7 | 3 | | | | | Every input signal: Color difference delay adj. (INPUT) |
| 10 | HVSW | HVSW | 0-3 | 1 | | | | | Every input signal: Output Sync signal switching |
| 11 | YSDY | YSDY | 0-7 | 1 | | | | | Every input signal: YS delay adj. |
| 12 | DLY | DELAY | 0-7 | 4 | | | | | Every input signal: Color difference delay adj. (OUTPUT) |
| 13 | HBLK | HBLK | 0-255 | A0 | | | | | Every input signal: H blanking adj. |
| 14 | VBLK | VBLK | 0-255 | 0A | 30 | 30 | 30 | 30 | Every input signal: V blanking adj. |
| 15 | IPVA | IPVA | 0-1 | 0 | | | | | Every input signal: Vertical linear interpolation |
| 16 | OFST | OFFSET | 0-255 | 0 | | | | | Every input signal: Linear interpolation offset setting |
| 17 | VSCA | VSCA | 0-1 | 1 | | | | | Every input signal: A ch vertical siz |
| 18 | OSVA | OSVA | 0-1 | 1 | | | | | Every input signal: A ch vertical offset |
| 19 | PLL1 | PLL1 | 0-7 | 4 | 4 | 4 | 5 | 5 | Every input signal: PLL 1 frequency dividing ratio setting |
| 20 | YUV | YUV | 0-3 | 1 | | | | | Every input signal: YUV signal sampling ratio |
| 21 | REF | REF | 0-7 | 5 | | | | | Every input signal: V size reference value |
| 22 | CLPD | CLPDA | 0-255 | 6A | | | | | Every input signal: A ch clamp position adj. |
| 23 | HPH0 | bit 0 of HPHASA | 0-1 | 0 | | | | | Every input signal polarity + Wide screen: H posi adj. (WRITE) |
| 24 | VPH0 | bit 0 of VPHASA | 0-1 | 0 | | | | | Every input signal polarity + Wide screen: posi adj. (WRITE) |
| 25 | HCOF | H CENT OF. | 0-63 | 26 | | | | | Every input signal: H center offse |
| 26 | H0OF | bit 0 of H CENT OF. | 0-1 | 0 | | | | | Every input signal: H center offset (bit 0) |
| 27 | VCOF | V CENT OF. | 0-63 | 0 | | | | | Every input signal: V center offset |
| 28 | V0OF | bit 0 of V CENT OF. | 0-1 | 0 | | | | | Every input signal: V center offset (bit 0) |
| 29 | HSOF | H SIZE OF. | 0-63 | 1F | 20 | 20 | 1F | 1B | Every input signal: H size offset |
| 30 | VSOF | V SIZE OF. | 0-255 | EB | | | | | Every input signal: V size offset |
| 31 | HPR3 | HPOSIA REF3 | 0-255 | 28 | | | | | HPOSIA value when REF=3 of user preset signal |
| 32 | HPR4 | HPOSIA REF4 | 0-255 | 25 | | | | | HPOSIA value when REF=4 of user preset signal |
| 33 | HPR5 | HPOSIA REF5 | 0-255 | 28 | | | | | HPOSIA value when REF=5 of user preset signal |
| 34 | SCOF | V SCROLL OF. | 0-31 | - | | | | | Every wide screen: V scroll offset |
| 35 | S0OF | bit 0 of V SCROLL OF. | 0-1 | - | | | | | Every wide screen: V scroll offset (bit 0) |
| 36 | SCRS | V SCROLL Standard value | 0-63 | - | | | | | Every wide screen: V scroll standard value |
| 37 | S0RS | bit 0 of V SCROLL Standard value | 0-1 | - | | | | | Every wide screen: V scroll standard value(bit 0) |

MID2 (CXD2072Q RGB (2))

| Item Display | Register Name | Range | Standard Values | | | | | Typical Standard Values |
|-----------------|------------------|----------------------------------|-----------------|--------|--------|--------|--------|--|
| | | | VGA85 | SVGA56 | SVGA60 | W-SVGA | SVGA72 | |
| 0 | HSIZ | HSIZEA | A0 | | | | | Every input signal: H size adj. (NTSC) |
| 1 | VGAH | VGAHS | 2F | 26 | 1A | 18 | 1F | Every input signal polarity + Wide screen: H size adj. (RGB) |
| 2 | HPOS | HPOSIA | 2E | 2A | 27 | 27 | 28 | Every input signal: H position adj. (READ) |
| 3 | VSIZ | VSIZEA | 3 | F0 | F0 | F0 | F0 | Every input signal polarity + Wide screen: V size adj. |
| 4 | VPOS | VPOSIA | 1D | 1F | 1F | 1F | 1F | Every input signal: V position adj. (READ) |
| 5 | HPHS | HPHASA | 3D | 45 | 48 | 4C | 3D | Every input signal polarity + Wide screen: H posi adj. (WRITE) |
| 6 | VPHS | VPHASA | 4 | 7 | 8 | 8 | 9 | Every input signal polarity + Wide screen: V posi adj. (WRITE) |
| 7 | WONA | WONA | 0 | | | | | Every input signal: MOVIE/STILL switching |
| 8 | OSCA | OSCA | 1 | | | | | Every input signal: Masking range switching |
| 9 | DLYA | DELAYA | 3 | | | | | Every input signal: Color difference delay adj. (INPUT) |
| 10 | HVSW | HVSW | 1 | | | | | Every input signal: Output Sync signal switching |
| 11 | YSDY | YSDY | 1 | | | | | Every input signal: YS delay adj. |
| 12 | DLY | DELAY | 4 | | | | | Every input signal: Color difference delay adj. (OUTPUT) |
| 13 | HBLK | HBLK | A0 | | | | | Every input signal: H blanking adj. |
| 14 | VBLK | VBLK | 30 | | | | | Every input signal: V blanking adj. |
| 15 | IPVA | IPVA | 0 | | | | | Every input signal: Vertical linear interpolation |
| 16 | OFST | OFFSET | 0 | | | | | Every input signal: Linear interpolation offset setting |
| 17 | VSCA | VSCA | 1 | 0 | 0 | 0 | 0 | Every input signal: A ch vertical size |
| 18 | OSVA | OSVA | 1 | | | | | Every input signal: A ch vertical offset |
| 19 | PLL1 | PLL1 | 5 | 4 | 4 | 4 | 4 | Every input signal: PLL 1 frequency dividing ratio setting |
| 20 | YUV | YUV | 1 | | | | | Every input signal: YUV signal sampling ratio |
| 21 | REF | REF | 5 | 2 | 2 | 2 | 2 | Every input signal: V size reference value |
| 22 | CLPD | CLPDA | 6A | | | | | Every input signal: A ch clamp position adj. |
| 23 | HPH0 | bit 0 of HPHASA | 1 | 1 | 0 | 0 | 0 | Every input signal polarity + Wide screen: H posi adj. (WRITE) |
| 24 | HPH0 | bit 0 of VPHASA | 0 | 0 | 1 | 1 | 1 | Every input signal polarity + Wide screen: V posi adj. (WRITE) |
| 25 | HCOF | H CENT OF. | 26 | | | | | Every input signal: H center offset |
| 26 | H0OF | bit 0 of H CENT OF. | 1 | 1 | 0 | 0 | 0 | Every input signal: H center offset (bit 0) |
| 27 | VCOF | V CENT OF. | 0 | | | | | Every input signal: V center offset |
| 28 | V0OF | bit 0 of V CENT OF. | 0 | 0 | 1 | 1 | 1 | Every input signal: V center offset (bit 0) |
| 29 | HSOF | H SIZE OF. | 1F | 16 | 0A | 0A | 0F | Every input signal: H size offset |
| 30 | VSOF | V SIZE OF. | EB | E7 | E7 | E7 | E7 | Every input signal: V size offset |
| 31 | HPR3 | HPOSIA REF3 | 28 | | | | | HPOSIA value when REF=3 of user preset signal |
| 32 | HPR4 | HPOSIA REF4 | 25 | | | | | HPOSIA value when REF=4 of user preset signal |
| 33 | HPR5 | HPOSIA REF5 | 28 | | | | | HPOSIA value when REF=5 of user preset signal |
| 34 | SCOF | V SCROLL OF. | - | | | | | Every wide screen: V scroll offset |
| 35 | S0OF | bit 0 of V SCROLL OF. | - | | | | | Every wide screen: V scroll offset (bit 0) |
| 36 | SCRS | V SCROLL Standard value | - | | | | | Every wide screen: V scroll standard value |
| 37 | SORS | bit 0 of V SCROLL Standard value | - | | | | | Every wide screen: V scroll standard value(bit 0) |

MID2 (CXD2072Q RGB (3))

| Item Display | Register Name | Range | Standard Values | | | | | Typical Standard Values | | |
|-----------------|------------------|----------------------------------|-----------------|-------|-------|-------|-------|-------------------------|--|--|
| | | | SVGA75 | XGA60 | W-XGA | MAC13 | MAC16 | | | |
| 0 | HSIZ | HSIZEA | 0-255 | | | | | A0 | | Every input signal: H size adj. (NTSC) |
| 1 | VGAH | VGAHS | 0-127 | 1A | 1D | 1C | 2F | 9 | Every input signal polarity + Wide screen: H size adj. (RGB) | |
| 2 | HPOS | HPOSIA | 0-255 | 28 | 26 | 26 | 2E | 24 | Every input signal: H position adj. (READ) | |
| 3 | VSIZ | VSIZEA | 0-255 | F0 | F0 | F0 | 3 | F0 | Every input signal polarity + Wide screen: V size adj. | |
| 4 | VPOS | VPOSIA | 0-255 | 1F | 1F | 1F | 1E | 1F | Every input signal: V position adj. (READ) | |
| 5 | HPHS | HPHASA | 0-255 | 51 | 4C | 4C | 4A | 59 | Every input signal polarity + Wide screen: H posi adj. (WRITE) | |
| 6 | VPHS | VPHASA | 0-255 | 7 | 8 | 8 | 0B | 0F | Every input signal polarity + Wide screen: V posi adj. (WRITE) | |
| 7 | WONA | WONA | 0-1 | 0 | | | | | Every input signal: MOVIE/STILL switching | |
| 8 | OSCA | OSCA | 0-1 | 1 | | | | | Every input signal: Masking range switching | |
| 9 | DLYA | DELAYA | 0-7 | 3 | | | | | Every input signal: Color difference delay adj. (INPUT) | |
| 10 | HVSW | HVSW | 0-3 | 1 | | | | | Every input signal: Output Sync signal switching | |
| 11 | YSDY | YSDY | 0-7 | 1 | | | | | Every input signal: YS delay adj. | |
| 12 | DLY | DELAY | 0-7 | 4 | | | | | Every input signal: Color difference delay adj. (OUTPUT) | |
| 13 | HBLK | HBLK | 0-255 | A0 | | | | | Every input signal: H blanking adj. | |
| 14 | VBLK | VBLK | 0-255 | 30 | | | | | Every input signal: V blanking adj. | |
| 15 | IPVA | IPVA | 0-1 | 0 | | | | | Every input signal: Vertical linear interpolation | |
| 16 | OFST | OFFSET | 0-255 | 0 | | | | | Every input signal: Linear interpolation offset setting | |
| 17 | VSCA | VSCA | 0-1 | 0 | 0 | 0 | 1 | 0 | Every input signal: A ch vertical size | |
| 18 | OSVA | OSVA | 0-1 | 1 | | | | | Every input signal: A ch vertical offset | |
| 19 | PLL1 | PLL1 | 0-7 | 4 | 4 | 4 | 6 | 4 | Every input signal: PLL 1 frequency dividing ratio setting | |
| 20 | YUV | YUV | 0-3 | 1 | | | | | Every input signal: YUV signal sampling ratio | |
| 21 | REF | REF | 0-7 | 2 | 4 | 4 | 5 | 3 | Every input signal: V size reference value | |
| 22 | CLPD | CLPDA | 0-255 | 6A | 6A | 6A | 40 | 6A | Every input signal: A ch clamp position adj. | |
| 23 | HPH0 | bit 0 of HPHASA | 0-1 | 1 | 0 | 0 | 0 | 1 | Every input signal polarity + Wide screen: H posi adj. (WRITE) | |
| 24 | VPH0 | bit 0 of VPHASA | 0-1 | 0 | 1 | 1 | 1 | 0 | Every input signal polarity + Wide screen: V posi adj. (WRITE) | |
| 25 | HCOF | H CENT OF. | 0-63 | 26 | 26 | 26 | 26 | 2E | Every input signal: H center offset | |
| 26 | H0OF | bit 0 of H CENT OF. | 0-1 | 1 | 0 | 0 | 0 | 1 | Every input signal: H center offset (bit 0) | |
| 27 | VCOF | V CENT OF. | 0-63 | 0 | | | | | Every input signal: V center offset | |
| 28 | V0OF | bit 0 of V CENT OF. | 0-1 | 0 | 1 | 1 | 1 | 0 | Every input signal: V center offset (bit 0) | |
| 29 | HSOF | H SIZE OF. | 0-63 | 0A | 0D | 0D | 1F | 0 | Every input signal: H size offset | |
| 30 | VSOF | V SIZE OF. | 0-255 | E7 | E7 | E7 | EB | E7 | Every input signal: V size offset | |
| 31 | HPR3 | HPOSIA REF3 | 0-255 | 28 | | | | | HPOSIA value when REF=3 of user preset signal | |
| 32 | HPR4 | HPOSIA REF4 | 0-255 | 25 | | | | | HPOSIA value when REF=4 of user preset signal | |
| 33 | HPR5 | HPOSIA REF5 | 0-255 | 28 | | | | | HPOSIA value when REF=5 of user preset signal | |
| 34 | SCOF | V SCROLL OF. | 0-31 | - | | | | | Every wide screen: V scroll offset | |
| 35 | S0OF | bit 0 of V SCROLL OF. | 0-1 | - | | | | | Every wide screen: V scroll offset (bit 0) | |
| 36 | SCRS | V SCROLL Standard value | 0-63 | - | | | | | Every wide screen: V scroll standard value | |
| 37 | S0RS | bit 0 of V SCROLL Standard value | 0-1 | - | | | | | Every wide screen: V scroll standard value(bit 0) | |

MID2 (CXD2072Q RGB (4))

| Item Display | Register Name | Range | Standard Values | | | | | Typical Standard Values |
|--------------|----------------------------------|-------|-----------------|--------|-------|-------|-------|--|
| | | | VGAT85 | OTHERS | REF=3 | REF=4 | REF=5 | |
| 0 HSIZ | HSIZEA | 0-255 | A0 | | | | | Every input signal: H size adj. (NTSC) |
| 1 VGAH | VGAHS | 0-127 | 20 | | 1E | 1E | 2E | Every input signal polarity + Wide screen: H size adj. (RGB) |
| 2 HPOS | HPOSIA | 0-255 | 26 | | 27 | 26 | 2E | Every input signal: H position adj. (READ) |
| 3 VSIZ | VSIZEA | 0-255 | 3 | | F0 | F0 | 3 | Every input signal polarity + Wide screen: V size adj. |
| 4 VPOS | VPOSIA | 0-255 | 3A | | 1E | 1E | 1E | Every input signal: V position adj. (READ) |
| 5 HPHS | HPHASA | 0-255 | 41 | | 48 | 4C | 48 | Every input signal polarity + Wide screen: H posi adj. (WRITE) |
| 6 VPHS | VPHASA | 0-255 | 6 | | 2 | 8 | 5 | Every input signal polarity + Wide screen: V posi adj. (WRITE) |
| 7 WONA | WONA | 0-1 | 0 | | | | | Every input signal: MOVIE/STILL switching |
| 8 OSCA | OSCA | 0-1 | 1 | | | | | Every input signal: Masking range switching |
| 9 DLYA | DELAYA | 0-7 | 3 | | | | | Every input signal: Color difference delay adj. (INPUT) |
| 10HVS | HVS | 0-3 | 1 | | | | | Every input signal: Output Sync signal switching |
| 11YSDY | YSDY | 0-7 | 1 | | | | | Every input signal: YS delay adj. |
| 12DLY | DELAY | 0-7 | 4 | | | | | Every input signal: Color difference delay adj. (OUTPUT) |
| 13HBLK | HBLK | 0-255 | A0 | | | | | Every input signal: H blanking adj. |
| 14VBLK | VBLK | 0-255 | 0C | | 30 | 30 | 30 | Every input signal: V blanking adj. |
| 15IPVA | IPVA | 0-1 | 0 | | | | | Every input signal: Vertical linear interpolation |
| 16OFST | OFFSET | 0-255 | 0 | | | | | Every input signal: Linear interpolation offset setting |
| 17VSCA | VSCA | 0-1 | 1 | | 0 | 0 | 1 | Every input signal: A ch vertical size |
| 18OSVA | OSVA | 0-1 | 1 | | | | | Every input signal: A ch vertical offset |
| 19PLL1 | PLL1 | 0-7 | 4 | | | | | Every input signal: PLL 1 frequency dividing ratio setting |
| 20YUV | YUV | 0-3 | 1 | | | | | Every input signal: YUV signal sampling ratio |
| 21REF | REF | 0-7 | 5 | | 3 | 4 | 5 | Every input signal: V size reference value |
| 22CLPD | CLPDA | 0-255 | 6A | | | | | Every input signal: A ch clamp position adj. |
| 23HPH0 | bit 0 of HPHASA | 0-1 | 1 | | 0 | 0 | 0 | Every input signal polarity + Wide screen: H posi adj. (WRITE) |
| 24HPH0 | bit 0 of VPHASA | 0-1 | 0 | | | | | Every input signal polarity + Wide screen: V posi adj. (WRITE) |
| 25HCOF | H CENT OF. | 0-63 | 26 | | 33 | 33 | 33 | Every input signal: H center offset |
| 26H0OF | bit 0 of H CENT OF. | 0-1 | 1 | | 0 | 0 | 0 | Every input signal: H center offset (bit 0) |
| 27VCOF | V CENT OF. | 0-63 | 0 | | | | | Every input signal: V center offset |
| 28V0OF | bit 0 of V CENT OF. | 0-1 | 0 | | | | | Every input signal: V center offset (bit 0) |
| 29HSOF | H SIZE OF. | 0-63 | 10 | | 18 | 18 | 18 | Every input signal: H size offset |
| 30VSOF | V SIZE OF. | 0-255 | EB | | E7 | E7 | EB | Every input signal: V size offset |
| 31HPR3 | HPOSIA REF3 | 0-255 | 28 | | | | | HPOSIA value when REF=3 of user preset signal |
| 32HPR4 | HPOSIA REF4 | 0-255 | 25 | | | | | HPOSIA value when REF=4 of user preset signal |
| 33HPR5 | HPOSIA REF5 | 0-255 | 28 | | | | | HPOSIA value when REF=5 of user preset signal |
| 34SCOF | V SCROLL OF. | 0-31 | - | | | | | Every wide screen: V scroll offset |
| 35S0OF | bit 0 of V SCROLL OF. | 0-1 | - | | | | | Every wide screen: V scroll offset (bit 0) |
| 36SCRS | V SCROLL Standard value | 0-63 | - | | | | | Every wide screen: V scroll standard value |
| 37S0RS | bit 0 of V SCROLL Standard value | 0-1 | - | | | | | Every wide screen: V scroll standard value(bit 0) |

AP (TA8776N)

| Item Display | Register Name | Range | Standard Values | Typical Standard Values |
|--------------|---------------|-------|-----------------|-------------------------|
| 0 SBAS | SUB_BASS | 0-63 | 10 | 10 |
| 1 STRE | SUB_TRABLE | 0-63 | 2 | 2 |

OP (Others)

| Item Display | Register Name | Range | Standard Values | | | Typical Standard Values |
|--------------|---|-------|-----------------|--------|---------|--|
| 0 OSDH | Display H Position | 0-63 | 10 (VIDEO) | 7(RGB) | 7(DVD) | 3 Kinds (VIDEO, RGB, DVD) |
| 1 OSDV | Display V Position | 0-63 | 7 (VIDEO) | 7(RGB) | 7 (DVD) | 3 Kinds (VIDEO, RGB, DVD) |
| 2 ASHT | Auto Shut Off | 0,1 | Not used | | | 0: OFF, 1: ON |
| 3 CPWR | CH Power ON | | Not used | | | Not used |
| 4 AGCH | AGC Voltage High | 0-15 | Not used | | | Not used |
| 5 AGCL | AGC Voltage Low | 0-15 | Not used | | | Not used |
| 6 DBSS | DBS Category Yes/No | | Not used | | | Not used |
| 7 EDCK | EDTV FULL Mode Detection | 0,1 | Not used | | | Not used |
| 8 AION | AI AUTO | 0,1 | Not used | | | Not used |
| 9 K | Picture Adjusting Variable K | 0-7 | 1 | | | Don't set "0" (Actual value is 1/8~7/8) |
| 10 L | Picture Adjusting Variable L | 0-7 | 0 | | | 0~7 is converted into 1~8 in actual use. |
| 11 LENS | Display only | 0 | – | | | Lens focus adj. |
| 12 PANEL | 0:Green, 1:Red, 2:Blue, 3:White | 0-3 | – | | | Panel position adj. |
| 13 WHITE | APL | 0-1 | – | | | White balance adj. (0: GAIN, 1: BIAS) |
| 14 WIND | Display only | 0 | – | | | Window signal |
| 15 STEP | Display only | 0 | | | | 00: Normal, 01: Pattern 1, 02: Pattern 2 |
| 16 EDFL | EDTV FULL Detection ON | 0,1 | Not used | | | Not used |
| 17 BC | g_bs_search [0] | 1-15 | Not used | | | Not used |
| 18 TIME | Lamp Counting Timer | | | | | Current time count and 0 time are displayed alternately with UP/DOWN |
| 19 FMTL | fh of distinction difference range | 0 | | | | $\pm ((3+\text{FHTL}) \times 0.2)$ kHz |
| 20 FVTL | fv of distinction difference range | 0 | | | | $\pm (1.0+\text{FVTL})$ Hz |
| 21HV1 | Threshold of scanning line distinction (low) | 0-15 | | | | (505+ (5×HV1)) lines |
| 22 HV2 | Threshold of scanning line distinction (high) | 0-15 | | | | (555+ (5×HV2)) lines |
| 23 MINH | fh of the frequency correspond to MIN | 0-31 | | | | 20+ ((3+FHTL) ×0.2) kHz |
| 24 MAXH | fh of the frequency correspond to MAX | 0-31 | | | | 42+ ((3+FHTL) ×0.2) kHz |
| 25 MINV | fv of the frequency correspond to MIN | 0-15 | | | | (42+MINV) Hz |
| 26 MAXV | fv of the frequency correspond to MAX | 0-15 | | | | (77+MAXV) Hz |
| 27 FHAG | Equivalence frequency of fh changed detection | 0-15 | | | | FHAG (20×FHAGms) |
| 28 FVAG | Equivalence frequency of fv changed detection | 0-15 | | | | FHAG (20×FVAGms) |
| 29 NSAG | Equivalence frequency of non-signal detection (on signal) | 0-15 | | | | Not used |
| 30 FHMJ | fh difference range of before the signal distinction | 0-7 | | | | $\pm ((1+\text{FHMJ}) \times 0.2)$ kHz |
| 31 FVMJ | fv difference range of before the signal distinction | 0-7 | | | | $\pm ((3+\text{FVMJ})$ |

TP (Model Discrimination)

| Item Display | Register Name | Range | Standard Values | Typical Standard Values |
|--------------|----------------|-------|-----------------|--|
| 0 WIDE | HH | 0,1 | Not used | |
| 1 TIME | TIMER | 0,1 | 0,1 | Fan stop time switching 0: 10 min (normal), 1: 10 sec |
| 2 KL37 | KL-W7000 model | 0,1 | 0,1 | 0: KL-W9000 1: KL-W7000 |

C Board Adjustment

1. PLL fo adjustment

1) WIDE mode

1. Select WIDE mode.
2. Open the CN5202 pin 1, H.SYNC input.
3. Connect IC5004 pin 2 to the GND (TP5009) via 100 resistance.
4. Connect frequency counter to the pin 1 of IC5004.
5. Adjust L5002 so as to satisfy the specified value (13.67 ± 0.10 MHz).
6. Input H.SYNC for NT double speed, and confirm the waveform at the TP with oscilloscope.

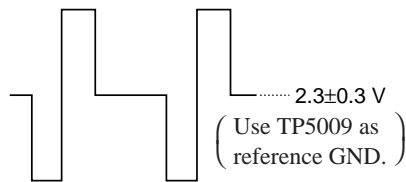


Fig. 1

2) NORMAL mode

1. Select NORMAL mode.
2. Open the CN5202 pin 1, H.SYNC input.
3. Connect IC5004 pin 2 to the GND (TP5009) via 100 resistance.
4. Connect frequency counter to the pin 1 of IC5004.
5. Adjust L5004 so as to satisfy the specified value (10.22 ± 0.05 MHz).
6. Input H.SYNC for NT double speed
7. Confirm the waveform at the TP5004 with oscilloscope.

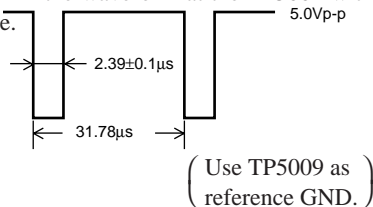


Fig. 2

2. IC Level Adjustment

1. Using I²C bus encoder, set the NT-WIDE mode.
2. Enter NT double speed 10-step signal of bias 2.2 V and amplitude 1.8 Vp-p to the CN5201 pins 2~4.

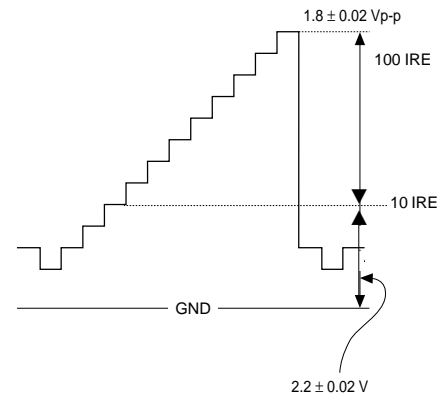
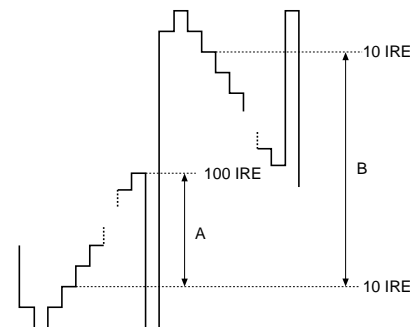


Fig. 3

1) R channel

1. Set the RLBS level of BIAS 3 to "00", make the TP5611 voltage 0V.
2. Connect oscilloscope to TP5203, and adjust RV5205 so that 10 IRE ~ 100 IRE (A) becomes 1.35 ± 0.02 Vp-p.
3. Adjust RV5201 so that the forward 10 IRE ~ reverse 10 IRE (B) becomes 5.70 ± 0.02 Vp-p at TP5203.
4. Confirm that a difference in voltage amplitude of forward 10 IRE ~ 100 IRE and forward 10 IRE ~ reverse 10 IRE between waveform at TP5202, TP5204 and waveform at TP5203 is within ± 150 mV.

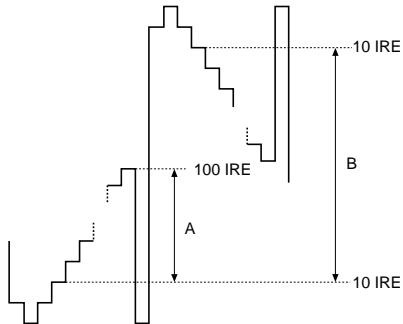


A : 1.35 ± 0.02 Vp-p
B : 5.70 ± 0.02 Vp-p

Fig. 4

2) G channel

1. Adjust the RV5402 (GLBS) so that the TP5411 becomes 0V.
2. Connect oscilloscope to TP5403, and adjust RV5407 so that 10 IRE ~ 100 IRE (A) becomes $1.35 \pm 0.02 \text{V}_{p-p}$.
3. Adjust RV5403 so that the forward 10 IRE ~ reverse 10 IRE (B) becomes $6.10 \pm 0.02 \text{V}_{p-p}$ at TP5403.
4. Confirm that a difference in voltage amplitude of forward 10 IRE ~ 100 IRE and forward 10 IRE ~ reverse 10 IRE between waveform at TP5602, 5604 and waveform at TP5603 is within $\pm 150 \text{mV}$.

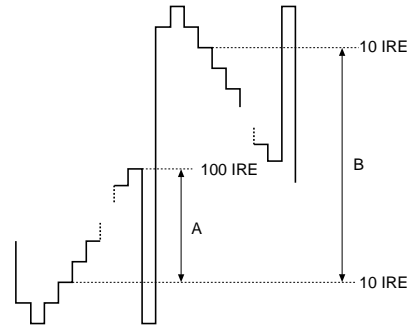


A : $1.35 \pm 0.02 \text{V}_{p-p}$
B : $6.10 \pm 0.02 \text{V}_{p-p}$

Fig. 5

3) B channel

1. Set the BLBS level of BIAS 3 to "00", make the TP5611 voltage 0V.
2. Connect oscilloscope to TP5603, and adjust RV5605 so that 10 IRE ~ 100 IRE (A) becomes $1.35 \pm 0.02 \text{V}_{p-p}$.
3. Adjust RV5601 so that the forward 10 IRE ~ reverse 10 IRE (B) becomes $5.90 \pm 0.02 \text{V}_{p-p}$ at TP5603.
4. Confirm that a difference in voltage amplitude of forward 10 IRE ~ 100 IRE and forward 10 IRE ~ reverse 10 IRE between waveform at TP5602, TP5604 and waveform at TP5603 is within $\pm 150 \text{mV}$.

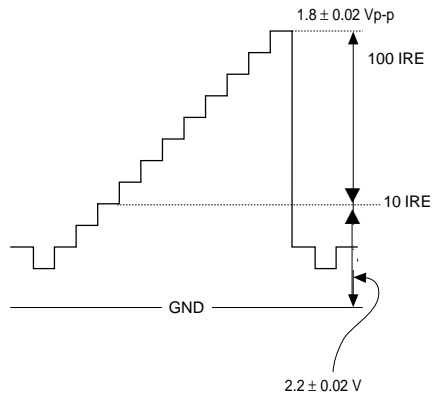


A : $1.35 \pm 0.02 \text{V}_{p-p}$
B : $5.90 \pm 0.02 \text{V}_{p-p}$

Fig. 6

3. r Curve Adjustment

- C board input signal level setting
 1. Using I²C bus encoder, set the NT-WIDE mode.
 2. Enter NT double speed (10 step) signal of bias 2.2V and amplitude 1.8Vp-p to the CN5201 pins 1~3.
 - After adjusting the amplitude of 1.8V, adjust the bias level of 2.2V.



Use TP5201,
TP5401 and TP5601
as reference GND
respectively.

Fig. 7

- G channel
 1. Connect oscilloscope to TP5403.
 2. DC power, apply $3.60 \pm 0.02V$ to TP5411.
 3. Adjust RV so that 10 IRE ~ 20 IRE becomes $700 \pm 20mV$.
 4. Stop the voltage application to *TP5411.

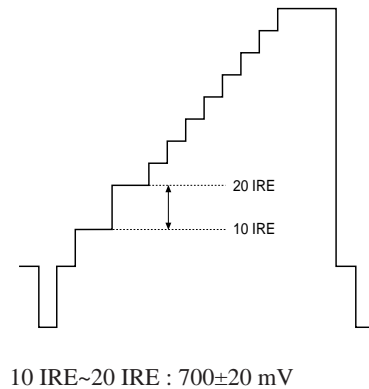
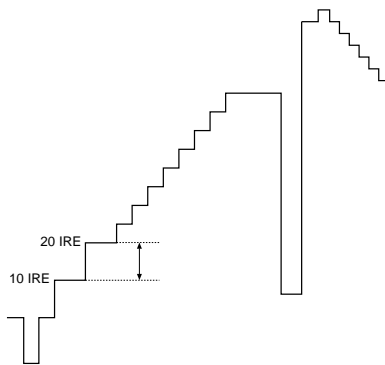


Fig. 9

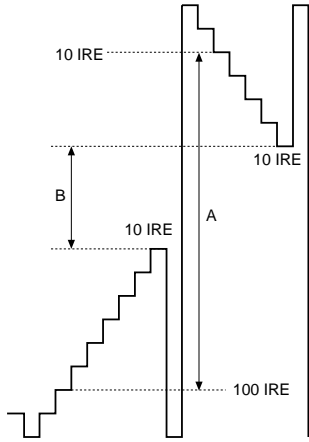
- R channel
 1. Connect oscilloscope to TP5203.
 2. DC power, apply $3.60 \pm 0.02V$ to TP5211.
 3. Adjust RV5203 so that 10 IRE ~ 20 IRE becomes $600 \pm 20mV$.
Adjustment is no good when 0 IRE ~ 10 IRE voltage is below 100 mV.
 4. Confirm that forward 10 IRE ~ reverse 10 IRE voltage is over 6.5V.



10 IRE~20 IRE : $600 \pm 20 mV$

Fig. 8

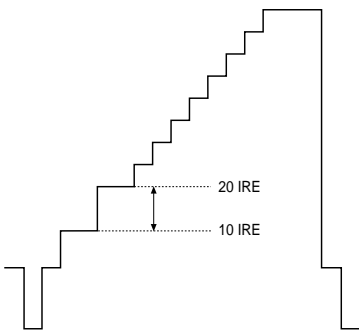
5. Adjust RV so that the forward 10 IRE ~ reverse 10 IRE (A) becomes $8.30 \pm 0.02 \text{Vp-p}$.
Adjustment is not good when 0 IRE ~ 10 IRE voltage is below 100mV.
6. Confirm that forward 100 IRE ~ reverse 100 IRE (B) is $3.45 \pm 0.10 \text{Vp-p}$.



A : $8.30 \pm 0.02 \text{Vp-p}$
B : $3.45 \pm 0.10 \text{Vp-p}$

Fig. 10

- B channel
 1. Connect oscilloscope to TP5603.
 2. DC power, apply $3.60 \pm 0.02 \text{V}$ to TP5611.
 3. Adjust RV so that 10 IRE ~ 20 IRE becomes $800 \pm 20 \text{mV}$.
Confirm that 0 IRE ~ 10 IRE voltage is over 7.1V.

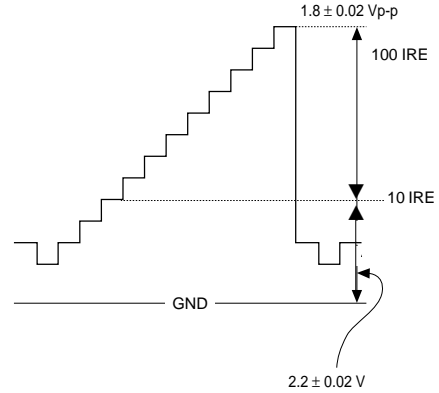


10 IRE ~ 20 IRE : $800 \pm 20 \text{mV}$

Fig. 11

4. Vcom Adjustment

- Using I²C bus encoder, set the NT-WIDE mode.
- Enter NT double speed 10-step signal of bias 2.2V and amplitude 1.8Vp-p to the CN5201 pins 2~4.
 1. Measure voltage at the TP5203 with digital voltmeter.
 2. Adjust RV5202 so that the voltage at TP5205 becomes (Value in 1) - $0.60 \pm 0.02 \text{V}$.
 3. Measure voltage at the TP5403 with digital voltmeter.



(Use TP5201,
TP5401 and TP5601
as reference GND
respectively.)

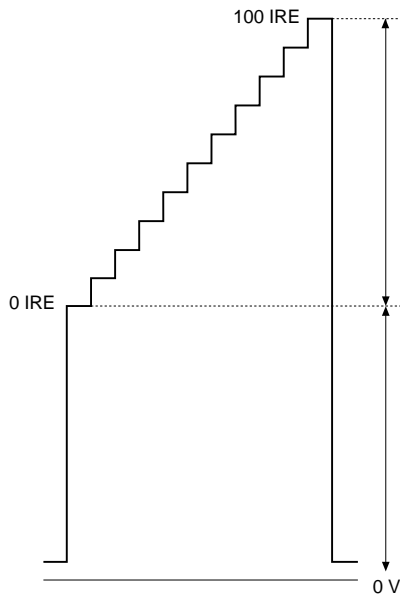
Fig. 12

4. Adjust RV5404 so that the voltage at TP5405 becomes (Value in 3) - $0.50 \pm 0.02 \text{V}$.
5. Measure voltage at the TP5603 with digital voltmeter.
6. Adjust RV5602 so that the voltage at TP5605 becomes (Value in 5) - $0.80 \pm 0.02 \text{V}$.

A Board Adjustment

1. Enter 1Vp-p 10-step signal from the Video1 input.
2. Set the user control to the RESET of AV MEMORY, PIX to maximum, and H WHITE to OFF.
3. Connect oscilloscope to TP4002.

4. In the SERVICE mode, adjust CXA1839 No.6 SPC2 so that 0 IRE ~ 100 IRE becomes almost 2.0Vp-p.
5. In the same manner, adjust CXA1839 No.1 SBRT so that the 0IRE level becomes 2.8Vdc.
6. Save the data.



0 IRE-100IRE : 2.0Vp-p

0 IRE : 2.8Vdc

Fig. 13

- Hue and Color Adjustment (NTSC)
 1. Enter 75% Full Field Color Bar from the RGB1 input.
 2. Connect oscilloscope to TP4003.
 3. In the SERVICE mode, adjust CXA1839 No.7 SCL2 so that the peak level of two pulses on both sides becomes almost equal.
 4. In the same manner, adjust CXA1839 No.0 SHUE so that the peak level of central two pulses becomes almost equal.
 5. Save the data.

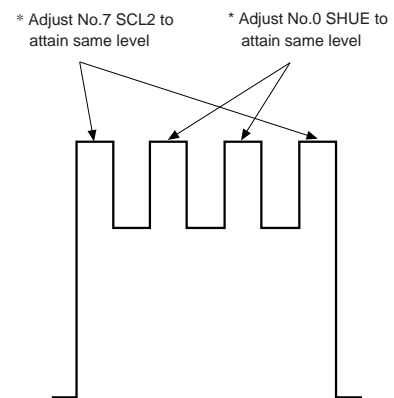



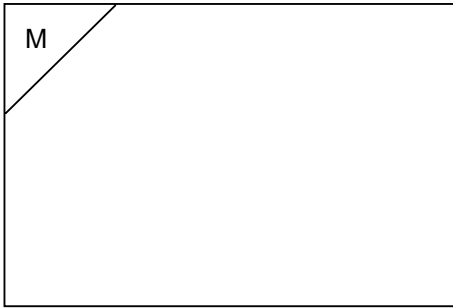
Fig. 14

CU Board Adjustment


- White uniformity Adjustment
 1. Input NTSC all white signal to Video Input.
 2. Set the screen full mode.
- Adjustment when the left side of the screen is magenda.

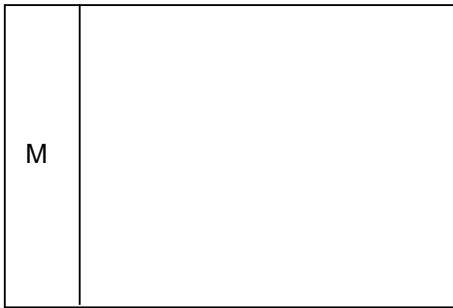
A

- 1) Adjust with RV5804
- 2) SW5801 



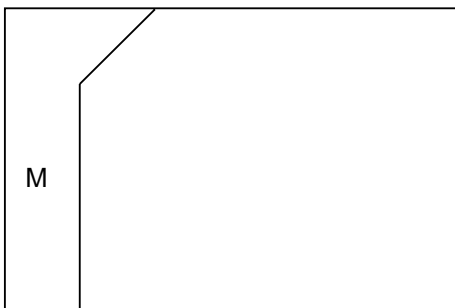
B

- 1) Adjust with RV5806
- 2) SW5809 

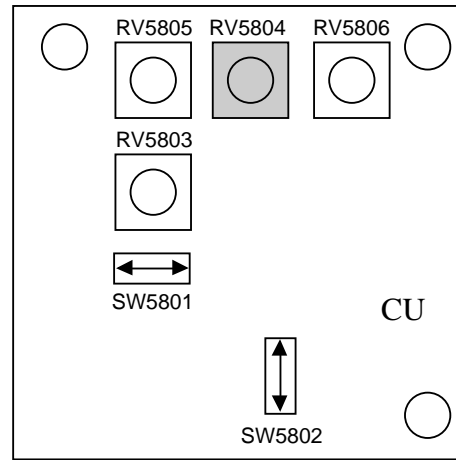


C


- 1) Adjust with RV5804 and RV5806
- 2) SW5801 

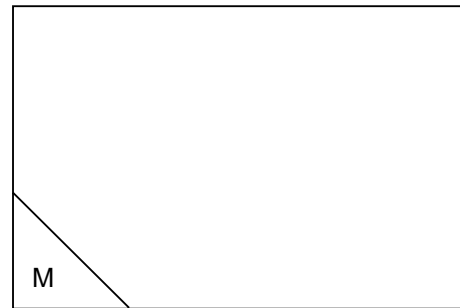


VR Position



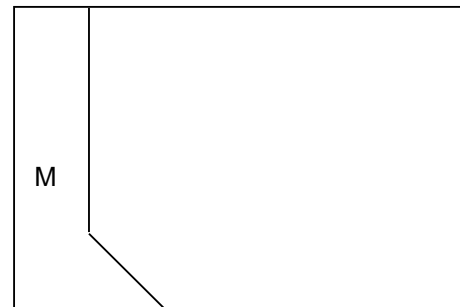
D

- 1) Adjust with RV5804
- 2) SW5801 




E

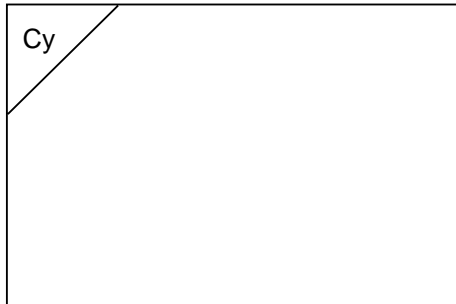
- 1) Adjust with RV5804 and RV5806
- 2) SW5801 




- Adjustment when the left side of the screen is cyan.

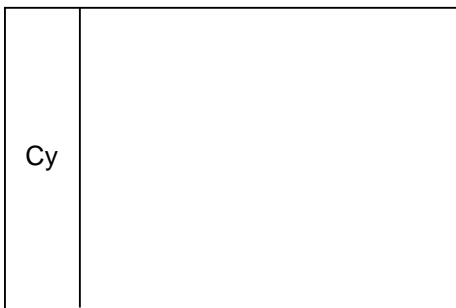
A

- 1) Adjust with RV5803
- 2) SW5802 



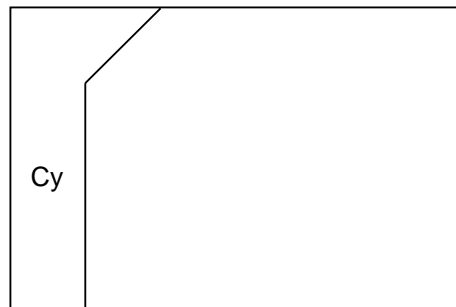
B

- 1) Adjust with RV5805
- 2) SW5802 




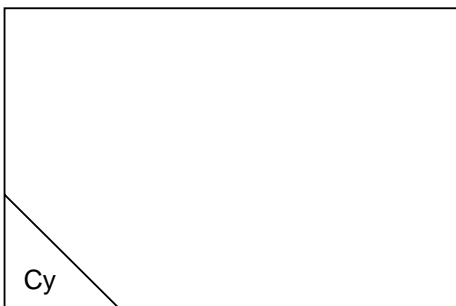
C

- 1) Adjust with RV5803 and RV5805
- 2) SW5802 




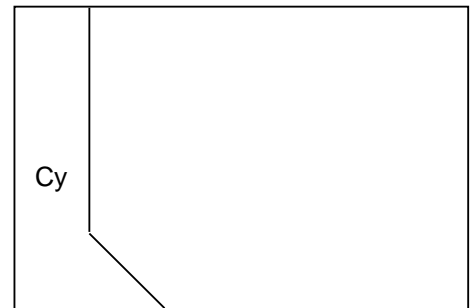
D

- 1) Adjust with RV5803
- 2) SW5802 



E

- 1) Adjust with RV5805
- 2) SW5802 



Sub BRT, Sub PIX Adjustments

1. RGB mode Adjustment.
 - 1) Input 10 step signal to RGB1 Input.
 - 2) Select wide mode

| | |
|------------|-----------------|
| CONT : 65% | H white : OFF |
| COL : 40% | (CXA 1839) |
| HUE : 50% | 12 : Y-DC "000" |
| BRT : 50% | 13 : DPIX "000" |
| SHP : 80% | |
 - 3) Connect oscilloscope to TP5403 (G Sig-2), Adjust the amplitude A to $3.20V \pm 0.02V_{p-p}$ with service data CXA2011: DLVL, and the amplitude B to $8.40V \pm 0.02V_{p-p}$ with the service data CXA2011: SBOF.
 - 4) Save it in memory.

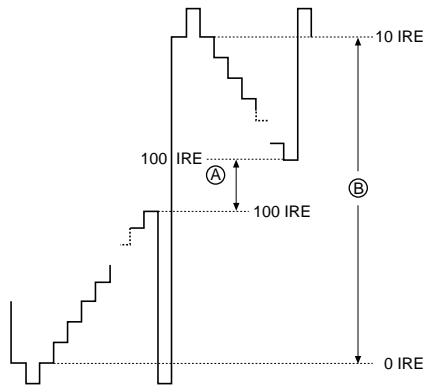


Fig. 15

2. NT mode Sub BRT Adjustment.
 - 1) Input 10 step signal to VIDEO 1.
 - 2) Select wide zoom.

| | |
|------------|------------------|
| CONT : 90% | H white : OFF |
| COL : 50% | CXA 1839 |
| HUE : 50% | 12 : Y-DC "000" |
| BRT : 50% | 13 : D-PIX "000" |
| SHP : 50% | |
 - 3) Connect oscilloscope to TP5403 (G Sig-2), adjust the amplitude A to $2.9V \pm 0.02V_{p-p}$ with the service data CXA2011: DLVL, and the amplitude B to $8.50V \pm 0.02V_{p-p}$ with CXA2011: SBOF.
 - 4) Save it in memory.

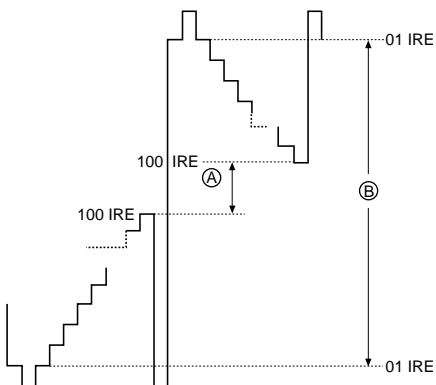


Fig. 16

3. DVD mode Sub BRT Adjustment.
 - 1) Select DVD mode.
 - 2) Input the same values as CXA2011 DLVL and CXA2011SBOF at NT mode Sub BRT Adjustment to DVD mode.

Registration Adjustment

Preparation

| | W7000A | W9000A |
|--------------------------------|-----------|-----------|
| Projected picture size | 36.3 inch | 49.1 inch |
| Projection distance | 529.7 mm | 726.2 mm |
| Aspect ratio | 16:9 | 16:9 |
| Picture quality adjusting menu | STANDARD | STANDARD |

Note: To make the registration adjustment
The registration locking blocks are fixed with an adhesive, thus requiring the registration adjusting block kit for service (4-047-337-01).

- Tools and Kit
Hex. wrench keys (2mm, 5mm)
1. Enter G monochrome crosshatch signal and also B monochrome crosshatch signal, then adjust registration between G and B.
Adjusting regi. adjusting screws in the order of $\theta \rightarrow X \rightarrow Y$, overlap the B picture on the G picture as shown in figure.
 2. Enter all black signal to the B panel and also R monochrome crosshatch signal, then adjust the registration between R and G.
 3. Tighten tentatively the registration locking screws on the R and B panels, and fix the registration blocks A and B with an adhesive.
 4. Tighten the regi. locking screws.

To replace G panel

1. Attach the G panel.
2. Enter G monochrome crosshatch signal.
3. Confirm that the center vertical line of crosshatch and that of screen almost coincide.
4. Loosen two screws on the θ G panel, insert an adjusting rod into a θ adjusting hole and rotate it to adjust the θ within specification.
5. Adjust registration of R and B.

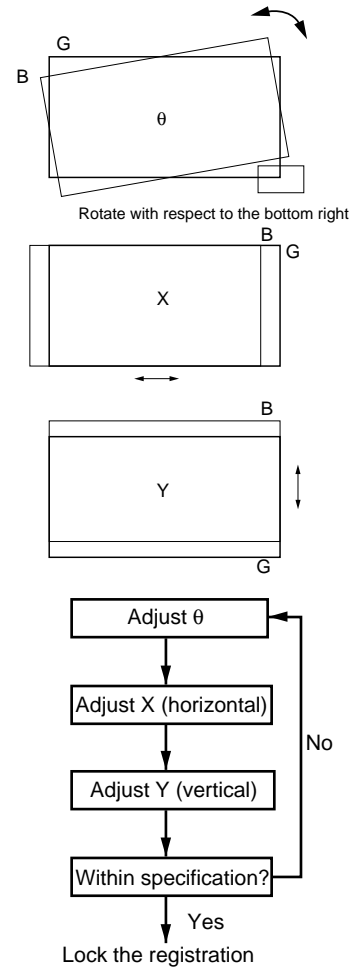
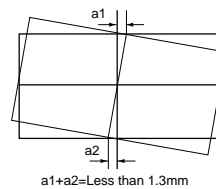


Fig. 17

White Balance Adjustment

Preparation

Set as follows.

PIX : 90%

BRT = CENT

H WHITE = OFF

1. NTSC and RGB mode color temperature ... HIGH

1) Set the color temperature to "H", and enter 30 IRE flat field signal to the input, and select the SERVICE mode.

2) White balance in SERVICE mode

Adjust RCOI and BCOI to satisfy the specification.

(WB: For GCOI, fix to 31)

(NTSC 30 IRE)

| W7000A | W9000A |
|------------------|-------------|
| X : 0.257 ±0.005 | 0.257±0.005 |
| Y : 0.281±0.005 | 0.281±0.005 |

(VGA 30 IRE)

| W7000A | W9000A |
|------------------|-------------|
| X : 0.253 ±0.005 | 0.248±0.005 |
| Y : 0.263±0.005 | 0.265±0.005 |

3) Enter 70 IRE flat field signal to the input, and select the SERVICE mode.

Adjust CXA2011 No.5 RDOF and No.7 BDOF to satisfy the specification.

(Fix CXA2011 No.6 GDOF to 31)

(NTSC 70 IRE)

| W7000A | W9000A |
|------------------|-------------|
| X : 0.267 ±0.003 | 0.267±0.003 |
| Y : 0.293 ±0.003 | 0.293±0.003 |

(VGA 70 IRE)

| W7000A | W9000A |
|------------------|-------------|
| X : 0.257 ±0.003 | 0.251±0.003 |
| Y : 0.283 ±0.003 | 0.276±0.003 |

4) Repeating the steps 2) and 3), adjust so that 30 IRE and 70 IRE satisfy the specification.

5) Enter 10 IRE flat field signal to the input, and select the SERVICE mode.

Adjust BIAS3 No.00 RLBS and No.01 BLBS to satisfy the specification.

(NTSC 10 IRE)

| W7000 | W9000 |
|-----------|-------|
| X : 0.276 | 0.266 |
| Y : 0.289 | 0.265 |

(VGA 10 IRE)

| W7000 | W9000 |
|-----------|-------|
| X : 0.271 | 0.253 |
| Y : 0.275 | 0.263 |

6) In the SERVICE mode, set CXA1839 No.12 Y-DC to "1", and CXA1839 No.13 DPIX to "2".

7) Enter 10-step signal to the input, and confirm that the color at each step of 0 IRE to 100 IRE is homogeneous and not extremely different from other parts.

8) Save the data.

2. DVD White Balance Adjustment.

1) Select DVD mode.

2) Input the same values as NTSC White Balance Adjustment to DVD mode.

Lens Focus Adjustment

1) Loosen a focus locking screw.

2) Adjust the lens focus.

5-1. BLOCK DIAGRAMS

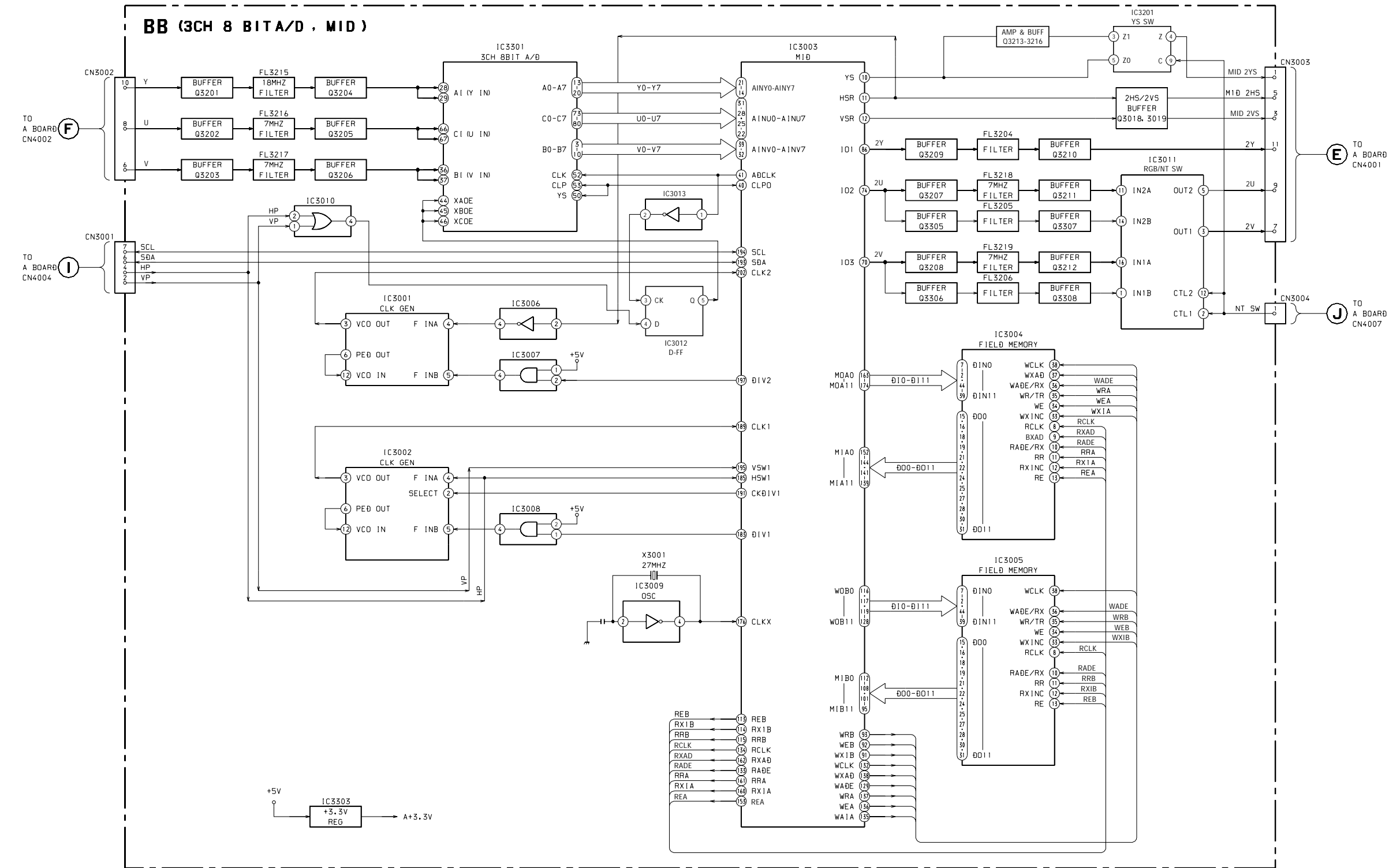
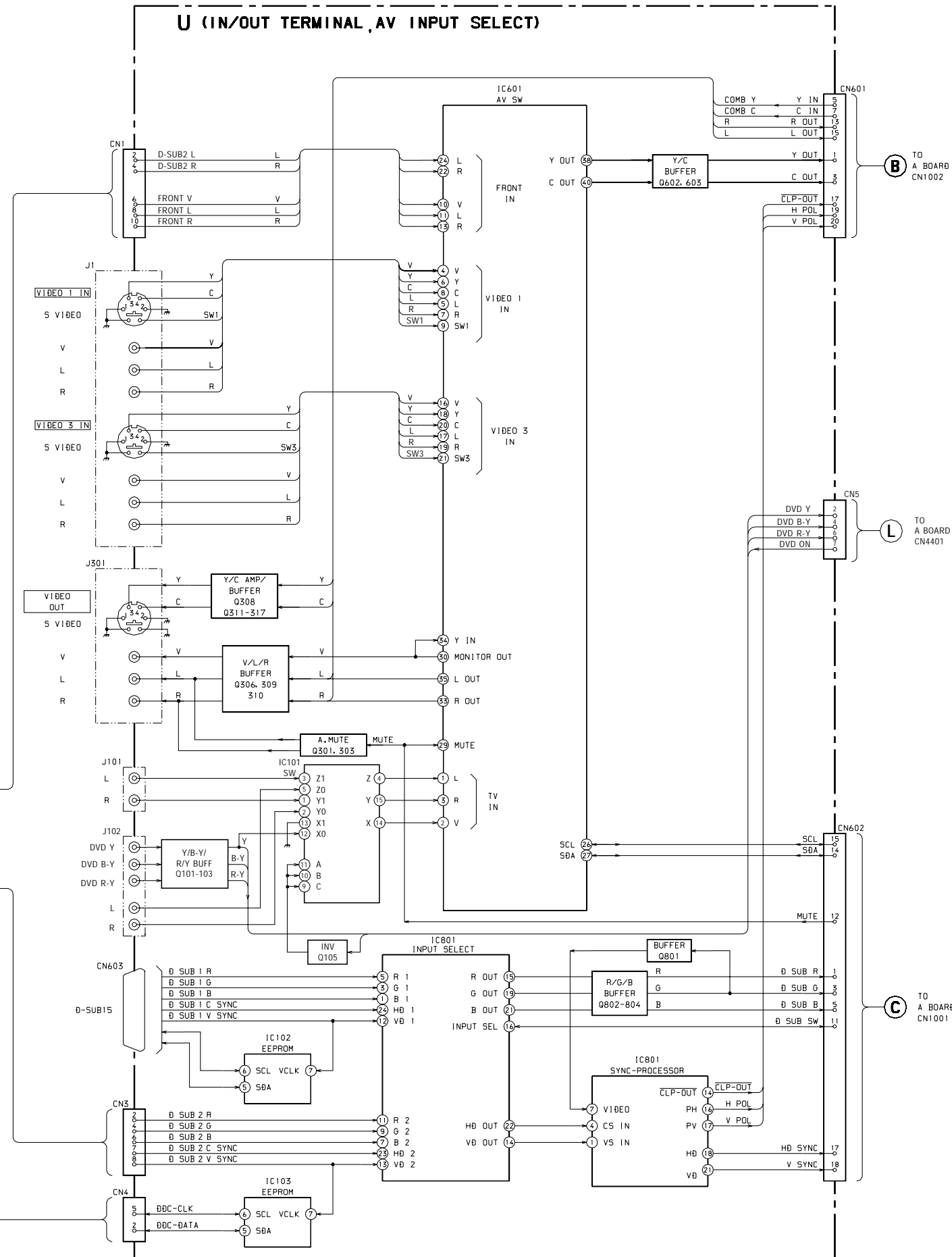
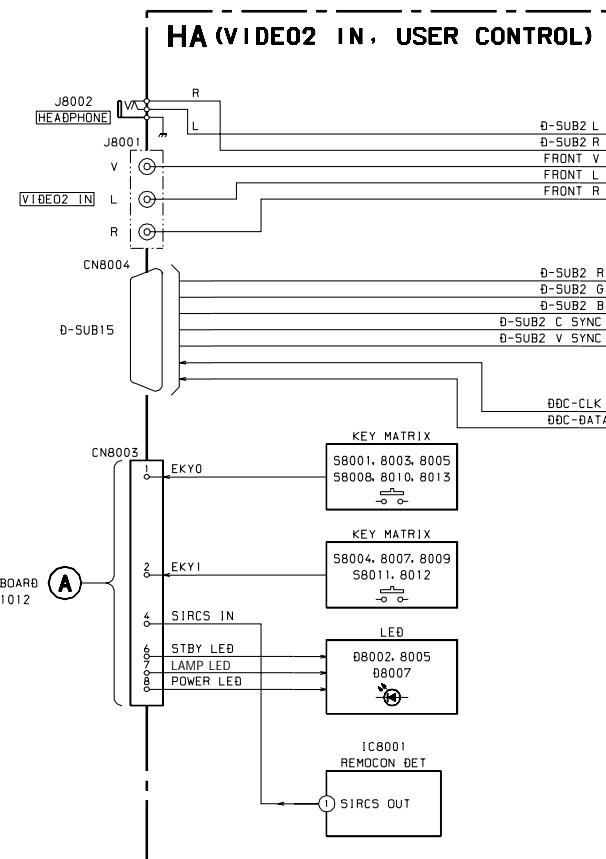
SECTION 5
DIAGRAMS

KL-W7000A/W9000A
RM-Y980

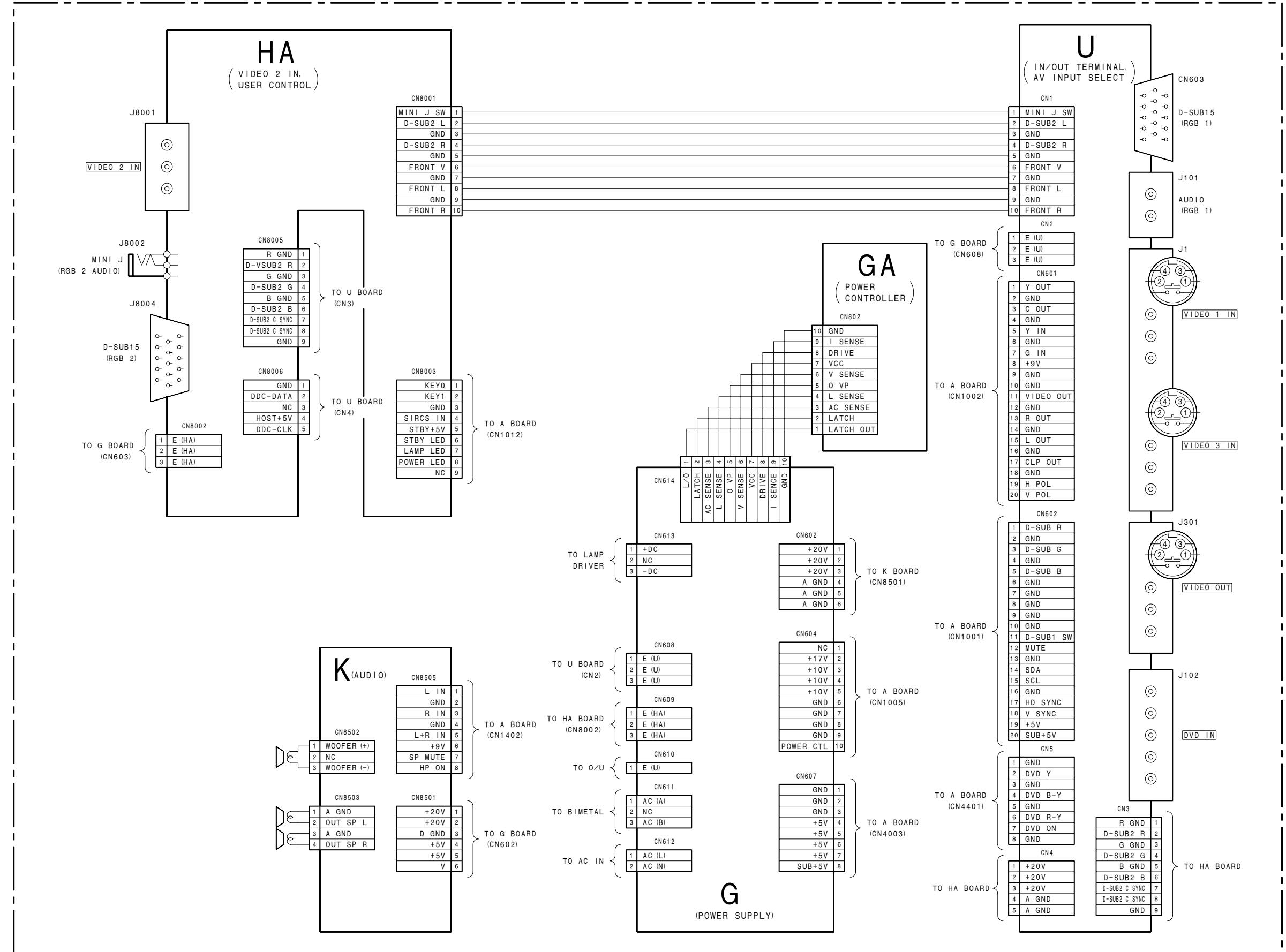
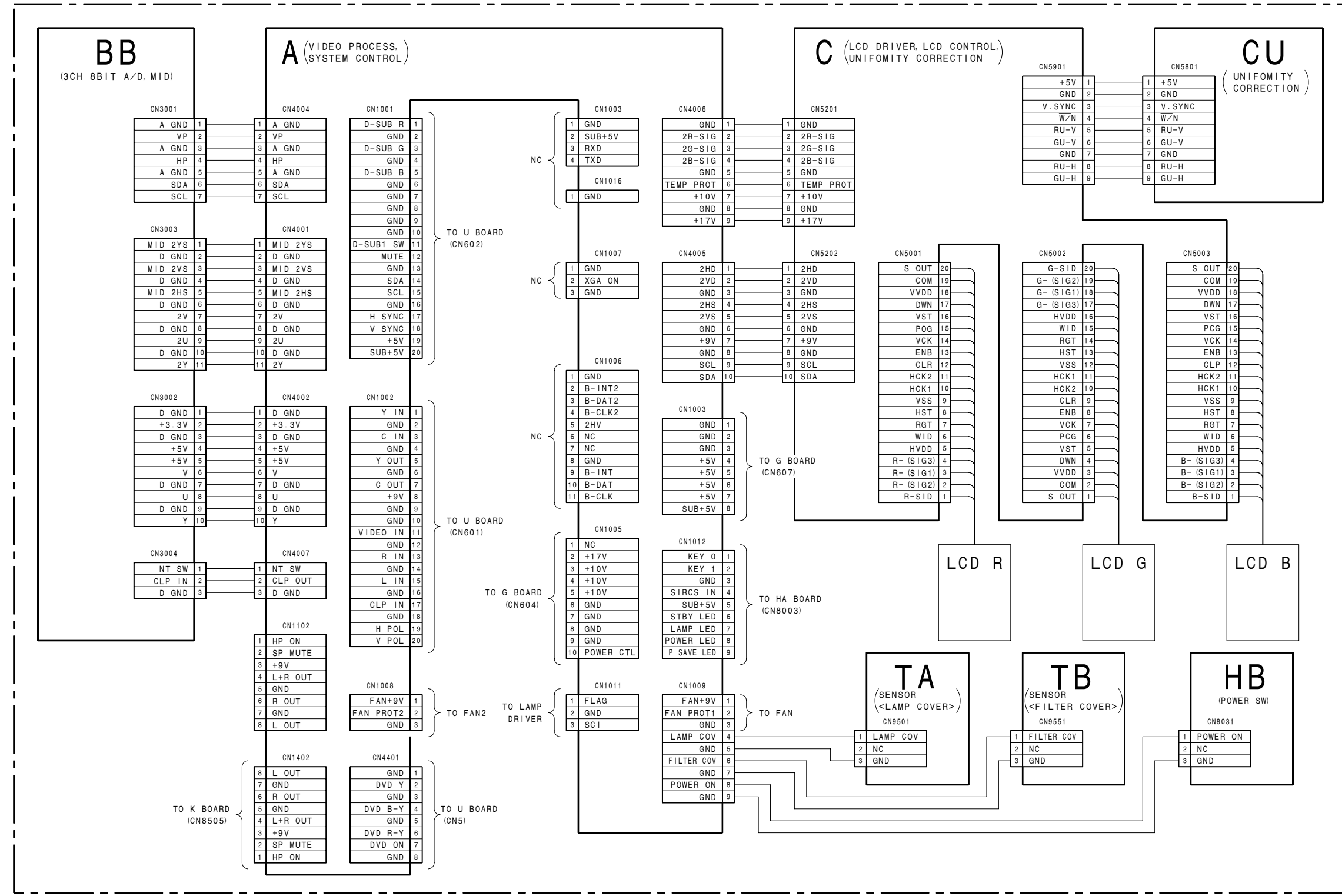
KL-W7000A/W9000A
RM-Y980

KL-W7000A/W9000A
RM-Y980

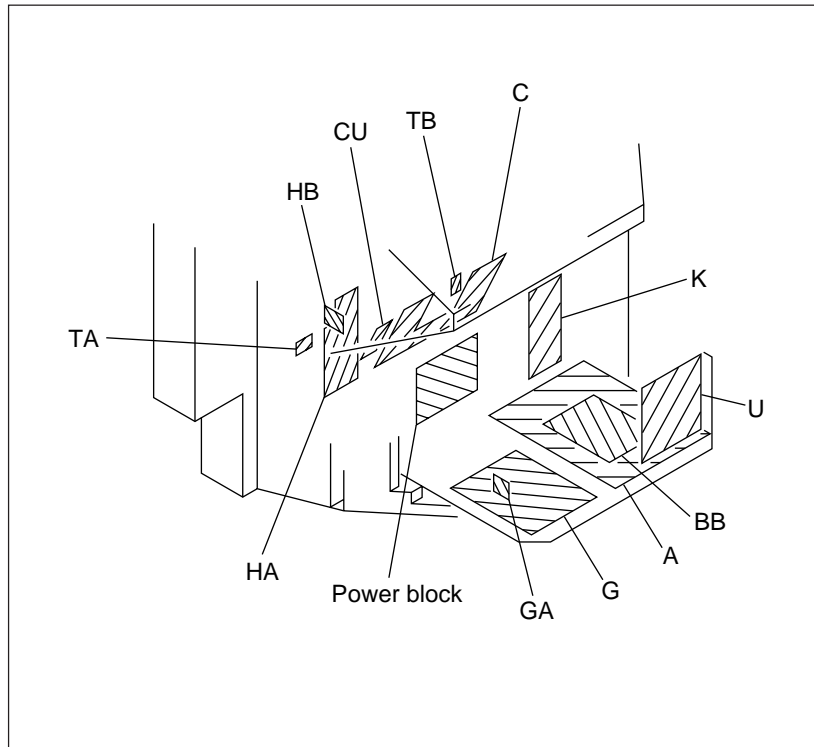
KL-W7000A/W9000A
RM-Y980



5-2. FRAME SCHEMATIC DIAGRAMS



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.
- 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.
- : Signal path.

Reference information

- RESISTOR : RN METAL FILM
 : RC SOLID
 : FPRD NONFLAMMABLE CARBON
 : FUSE NONFLAMMABLE FUSIBLE
 : RW NONFLAMMABLE WIREWOUND
 : RS NONFLAMMABLE METAL OXIDE
 : RB NONFLAMMABLE CEMENT
- COIL : LF-8L MICRO INDUCTOR
- CAPACITOR : TA TANTALUM
 : PS STYROL
 : PP POLYPROPYLENE
 : PT MYLAR
 : MPS METALIZED POLYESTER
 : MPP METALIZED POLYPROPYLENE
 : ALB BIPOLAR
 : ALT HIGH TEMPERATURE
 : ALR HIGH RIPPLE

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

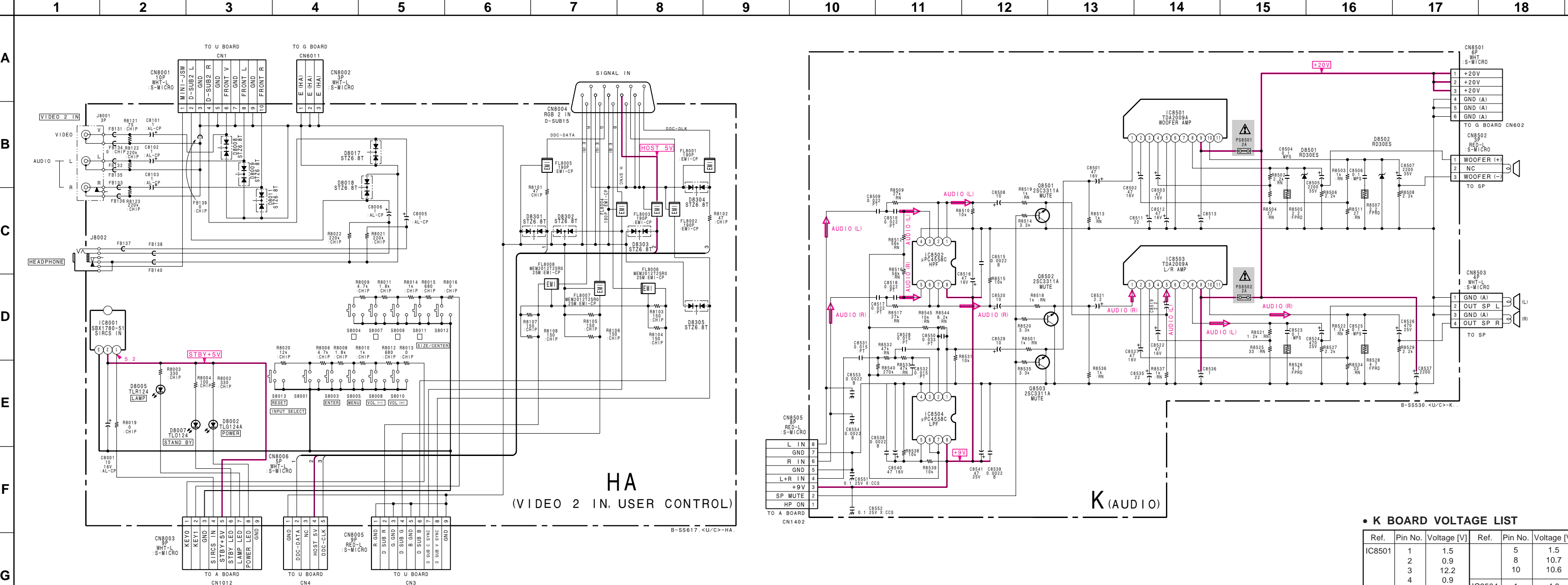
Note: Les composants identifiés per un tramé et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

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 | |
| ⑬ | Transistor (FET) | | Drain Gate Source | |
| ⑭ | Transistor (FET) | | Drain Gate Source | |
| ⑮ | Transistor (FET) | | Source Drain Gate | |
| ⑯ | Transistor | | Emitter Collector Base | |
| ⑰ | Transistor | | C2 B1 E1 E2 B2 C1 | |
| ⑱ | Transistor | | C1 B2 E2 E1 B1 C2 | |
| ⑲ | Transistor | | C1 B2 E2 E1 B1 C2 | |
| ⑳ | Transistor | | C1 B2 E2 E1 B1 C2 | |
| ㉑ | Transistor | | E2 B1 E1 C2 C1(B2) | |
| ㉒ | Transistor | | (B2) B1 E1 E2 C1 C2 | |
| ㉓ | Transistor | | (B2) E2 E1 B1 C2 C1 | |
| — | Discrete semiconductot | | | |

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

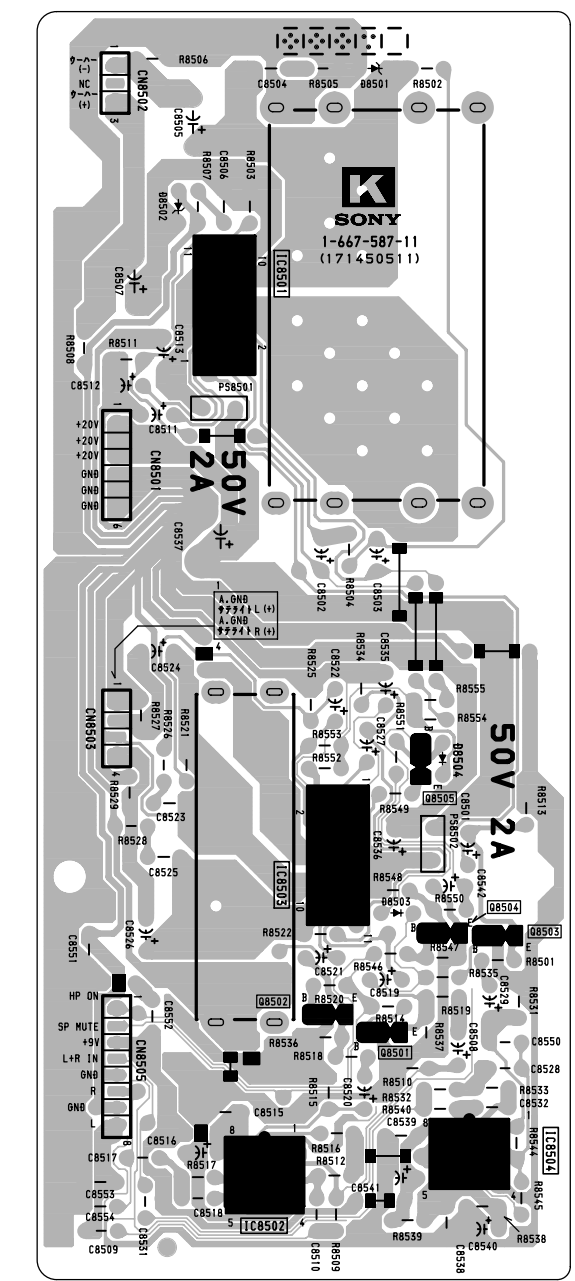
(1) Schematic Diagrams of HA, HB, K, TA and TB Boards



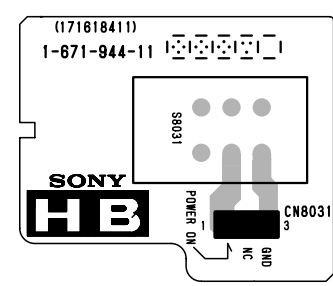
• K BOARD VOLTAGE LIST

| Ref. | Pin No. | Voltage [V] | Ref. | Pin No. | Voltage [V] | |
|--------|---------|-------------|--------|---------|-------------|-----|
| IC8501 | 1 | 1.5 | IC8504 | 1 | 4.8 | |
| | 2 | 0.9 | | 2 | 4.8 | |
| | 3 | 12.2 | | 3 | 4.7 | |
| | 4 | 0.9 | | 5 | 4.8 | |
| | 5 | 1.5 | | 6 | 4.8 | |
| IC8502 | 1 | 4.8 | Q8501 | B | 0.5 | |
| | 2 | 4.8 | | E | 0 | |
| | 3 | 4.8 | | Q8502 | B | 0.5 |
| | 4 | 4.8 | | | E | 0 |
| | 5 | 4.8 | | | Q8503 | B |
| 6 | 4.8 | E | 0 | | | |
| IC8503 | 1 | 1.5 | Q8503 | B | 0.5 | |
| | 2 | 0.9 | | E | 0 | |
| | 3 | 12.2 | | | | |
| | 4 | 0.9 | | | | |

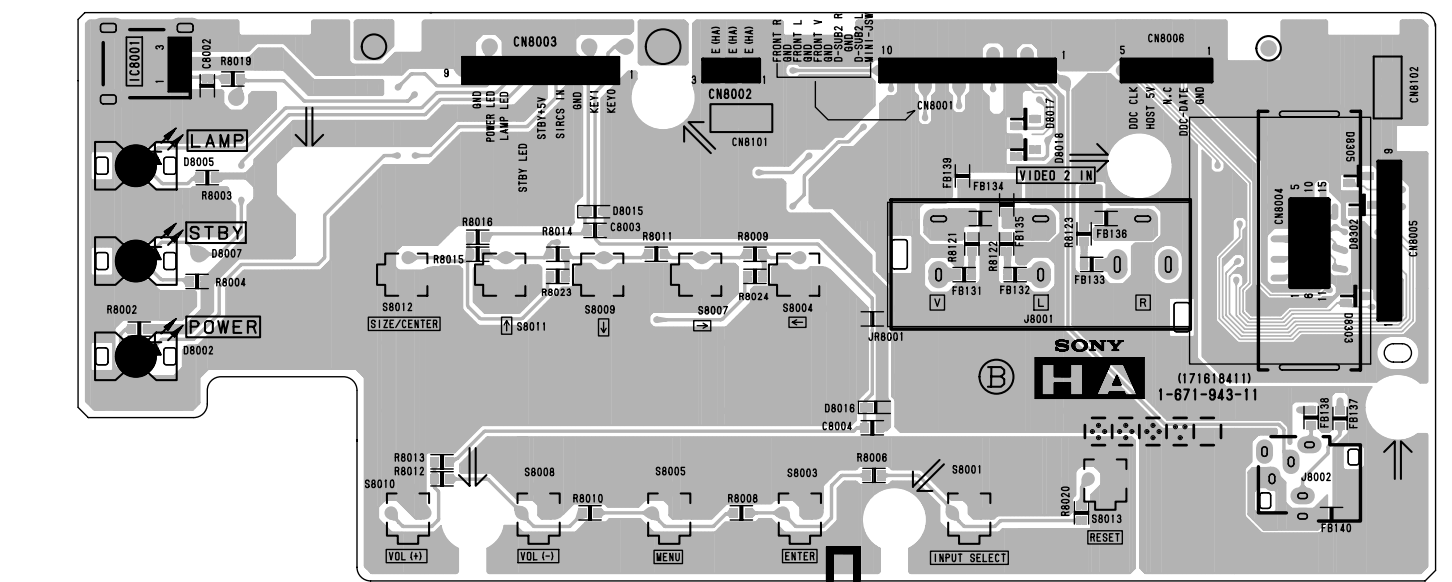
— K BOARD —



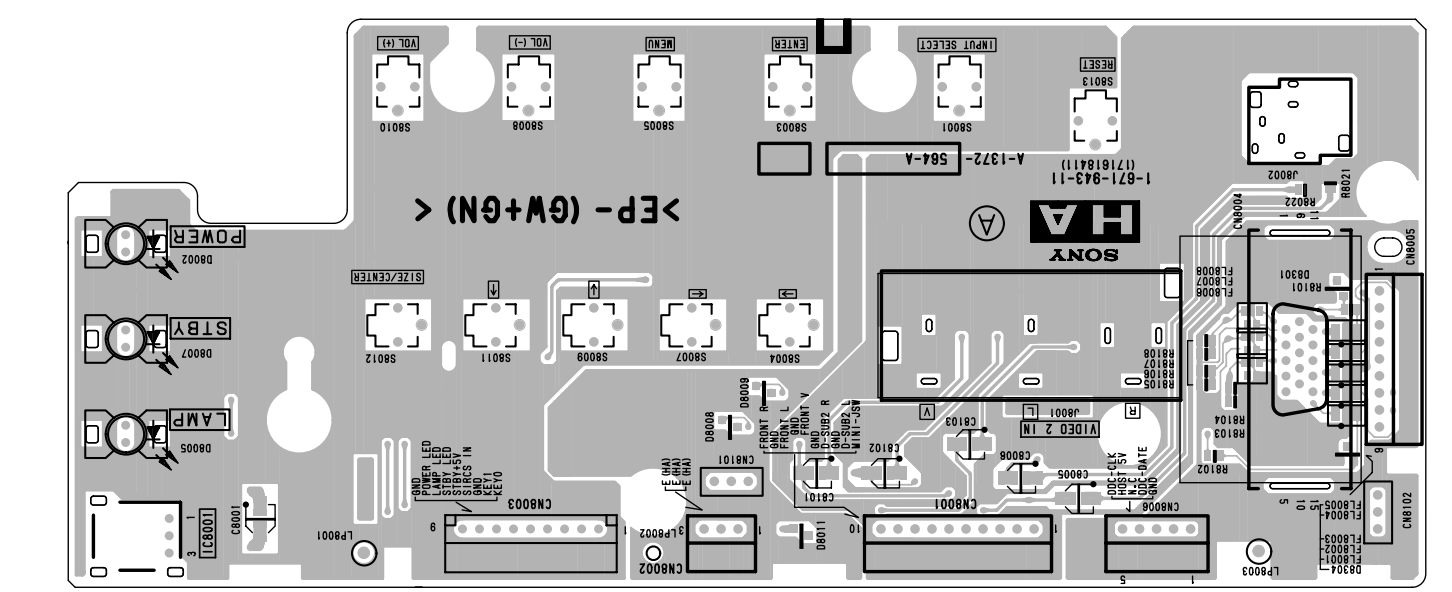
— HB BOARD —



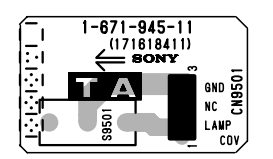
— HA BOARD (Conductor Side) —



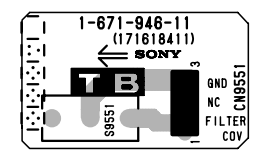
— HA BOARD (Component Side) —



— TA BOARD —



— TB BOARD —

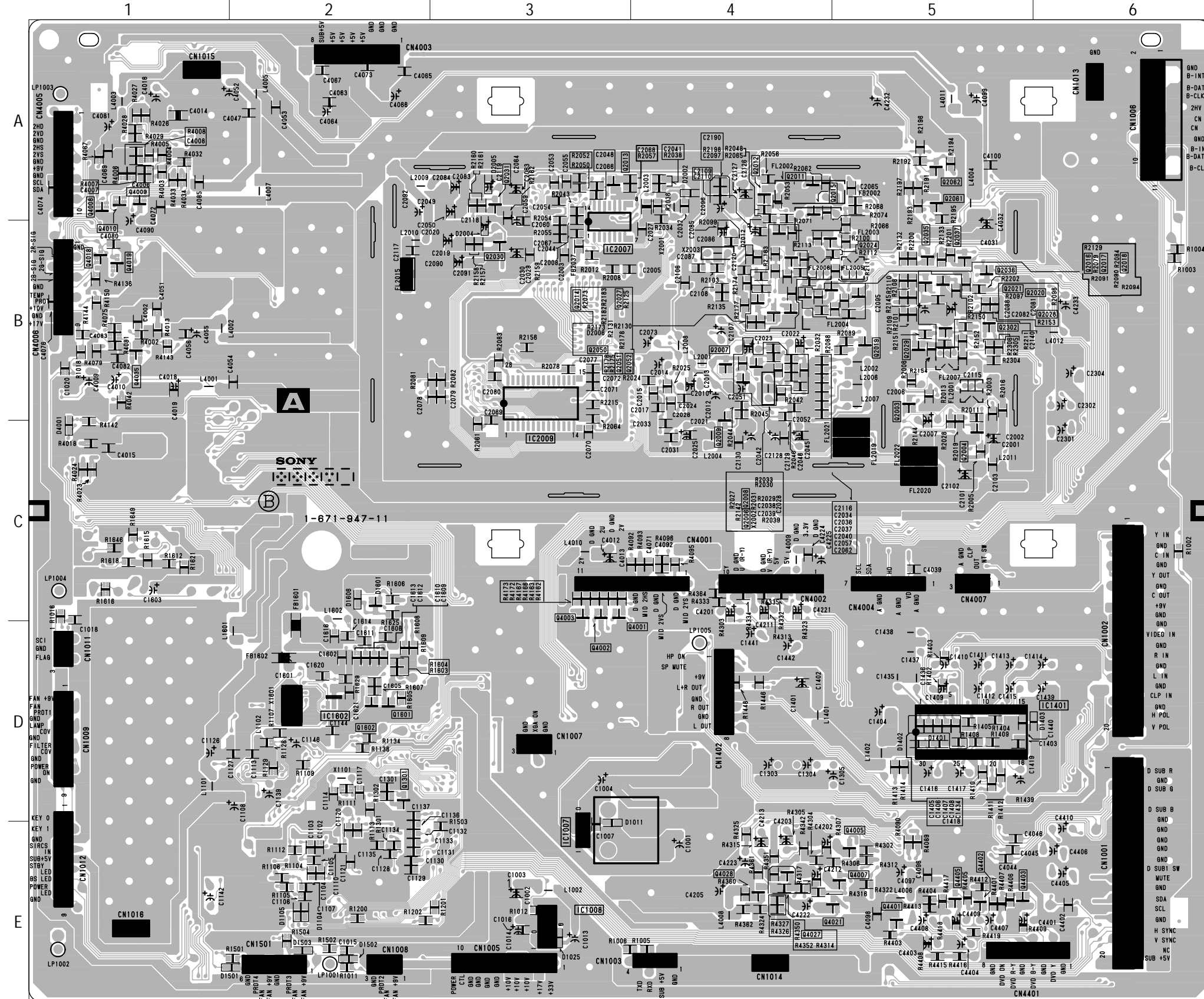


HA BOARD
Terminal name of semiconductors in silk screen printed circuit (*):

| Ref. | * |
|----------------------|---|
| D8017, D8018, D8302, | ⊗ |
| D8303, D8305 | ⊗ |
| D8008, D8009, D8011, | ⊗ |
| D8301, D8304 | ⊗ |

*: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 64)

— A BOARD (Conductor Side) —



• A BOARD SEMICONDUCTOR LOCATION

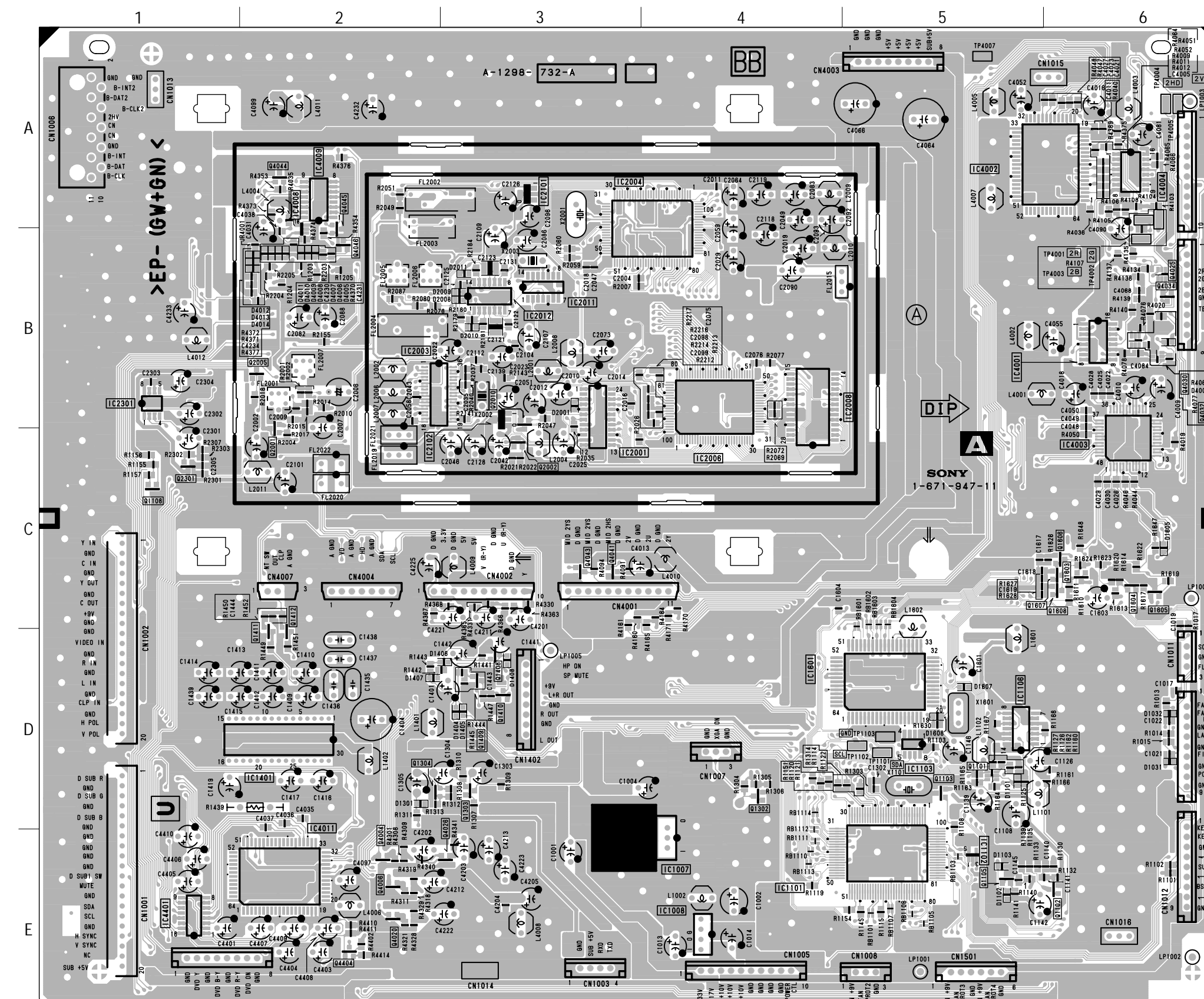
| IC | | IC | | IC | |
|------------------|------------------|------------------|------------------|------------------|------------------|
| (Conductor Side) | (Component Side) | (Conductor Side) | (Component Side) | (Conductor Side) | (Component Side) |
| IC1007 | E-3 | Q2029 | B-5 | D4008 | B-2 |
| IC1108 | E-3 | Q2030 | B-3 | D4009 | B-2 |
| IC1101 | E-3 | Q2031 | A-3 | D4010 | B-2 |
| IC1102 | E-5 | Q2035 | B-5 | D4011 | B-2 |
| IC1103 | E-5 | Q2036 | B-5 | D4012 | B-2 |
| IC1106 | D-5 | Q2037 | B-5 | | |
| IC1401 | D-5 | Q2050 | B-4 | | |
| IC1601 | D-5 | Q2051 | B-4 | | |
| IC1602 | D-2 | Q2052 | B-4 | | |
| IC2001 | B-3 | Q2061 | A-5 | | |
| IC2002 | B-2 | Q2062 | A-5 | | |
| IC2003 | A-3 | Q2301 | C-1 | | |
| IC2004 | B-4 | Q2302 | B-5 | | |
| IC2006 | B-3 | Q4001 | C-3 | | |
| IC2007 | B-3 | Q4002 | C-3 | | |
| IC2008 | B-3 | Q4003 | C-3 | | |
| IC2009 | B-3 | Q4004 | E-2 | | |
| IC2011 | B-3 | Q4005 | E-5 | | |
| IC2012 | B-3 | Q4006 | E-2 | | |
| IC2101 | A-3 | Q4007 | E-5 | | |
| IC2102 | B-3 | Q4008 | A-1 | | |
| IC2301 | B-1 | Q4009 | A-1 | | |
| IC4001 | B-6 | Q4010 | A-1 | | |
| IC4002 | A-5 | Q4018 | B-1 | | |
| IC4003 | C-6 | Q4019 | B-1 | | |
| IC4004 | A-6 | Q4020 | E-2 | | |
| IC4008 | A-2 | Q4021 | E-4 | | |
| IC4009 | A-2 | Q4025 | B-6 | | |
| IC4011 | E-2 | Q4026 | E-3 | | |
| IC4401 | E-1 | Q4027 | E-4 | | |
| | | Q4028 | E-4 | | |
| | | Q4034 | B-6 | | |
| | | Q4035 | B-1 | | |
| | | Q4041 | C-3 | | |
| | | Q4043 | C-3 | | |
| | | Q4044 | A-2 | | |
| | | Q4045 | A-2 | | |
| | | Q4401 | E-5 | | |
| | | Q4402 | E-5 | | |
| | | Q4403 | E-5 | | |
| | | Q4404 | E-5 | | |
| | | Q4405 | E-5 | | |

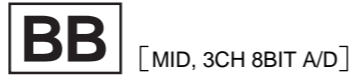
| TRANSISTOR | | TRANSISTOR | | TRANSISTOR | |
|------------------|------------------|------------------|------------------|------------------|------------------|
| (Conductor Side) | (Component Side) | (Conductor Side) | (Component Side) | (Conductor Side) | (Component Side) |
| Q1101 | D-5 | Q1301 | D-4 | D1011 | D-3 |
| Q1102 | E-6 | Q1302 | D-3 | D1025 | F-3 |
| Q1103 | D-5 | Q1303 | D-2 | D1031 | D-6 |
| Q1105 | E-5 | Q1408 | D-3 | D1032 | D-6 |
| Q1108 | C-1 | Q1409 | D-3 | D1102 | E-5 |
| | | Q1410 | D-3 | D1103 | E-5 |
| | | Q1601 | D-2 | D1104 | F-2 |
| | | Q1602 | D-2 | D1105 | F-2 |
| | | Q1603 | C-6 | D1301 | D-2 |
| | | Q1604 | C-6 | D1401 | D-5 |
| | | Q1605 | C-6 | D1402 | D-5 |
| | | Q1606 | C-6 | D1405 | D-3 |
| | | Q1607 | C-6 | D1406 | D-3 |
| | | Q1608 | C-6 | D1407 | D-2 |
| | | Q2001 | C-2 | D1408 | D-3 |
| | | Q2002 | C-3 | D1601 | C-2 |
| | | Q2003 | B-5 | D1605 | C-6 |
| | | Q2004 | C-5 | D1606 | C-2 |
| | | Q2005 | B-2 | D2001 | B-3 |
| | | Q2007 | B-4 | D2002 | A-4 |
| | | Q2008 | B-4 | D2004 | B-3 |
| | | Q2009 | B-4 | D2005 | A-3 |
| | | Q2010 | B-3 | D2006 | B-4 |
| | | Q2011 | A-4 | D2008 | B-3 |
| | | Q2012 | A-4 | D2009 | B-3 |
| | | Q2013 | A-3 | D2010 | B-3 |
| | | Q2014 | B-4 | D2011 | B-3 |
| | | Q2015 | A-4 | D2012 | B-4 |
| | | Q2016 | B-4 | D4001 | C-1 |
| | | Q2017 | B-4 | D4002 | B-6 |
| | | Q2018 | B-5 | D4005 | B-2 |
| | | Q2019 | B-5 | D4006 | B-2 |
| | | Q2020 | B-5 | D4007 | B-2 |
| | | Q2021 | B-5 | | |
| | | Q2024 | B-4 | | |
| | | Q2027 | B-4 | | |
| | | Q2028 | B-5 | | |

| CRYSTAL | | CRYSTAL | |
|------------------|------------------|------------------|------------------|
| (Conductor Side) | (Component Side) | (Conductor Side) | (Component Side) |
| X1101 | D-2 | X2001 | A-4 |
| X1601 | D-2 | X2002 | B-4 |
| X2001 | A-4 | X2003 | B-4 |
| X2002 | B-4 | | |
| X2003 | B-4 | | |

*: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 64)

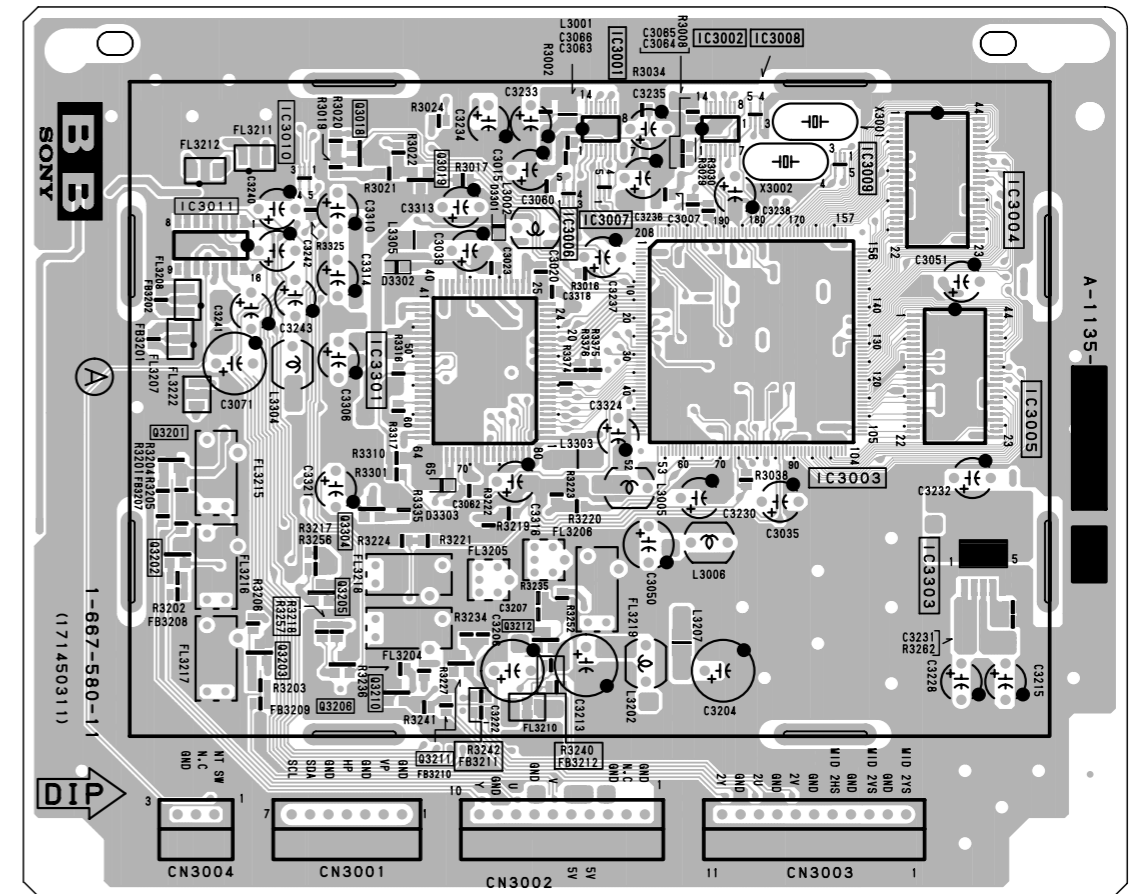
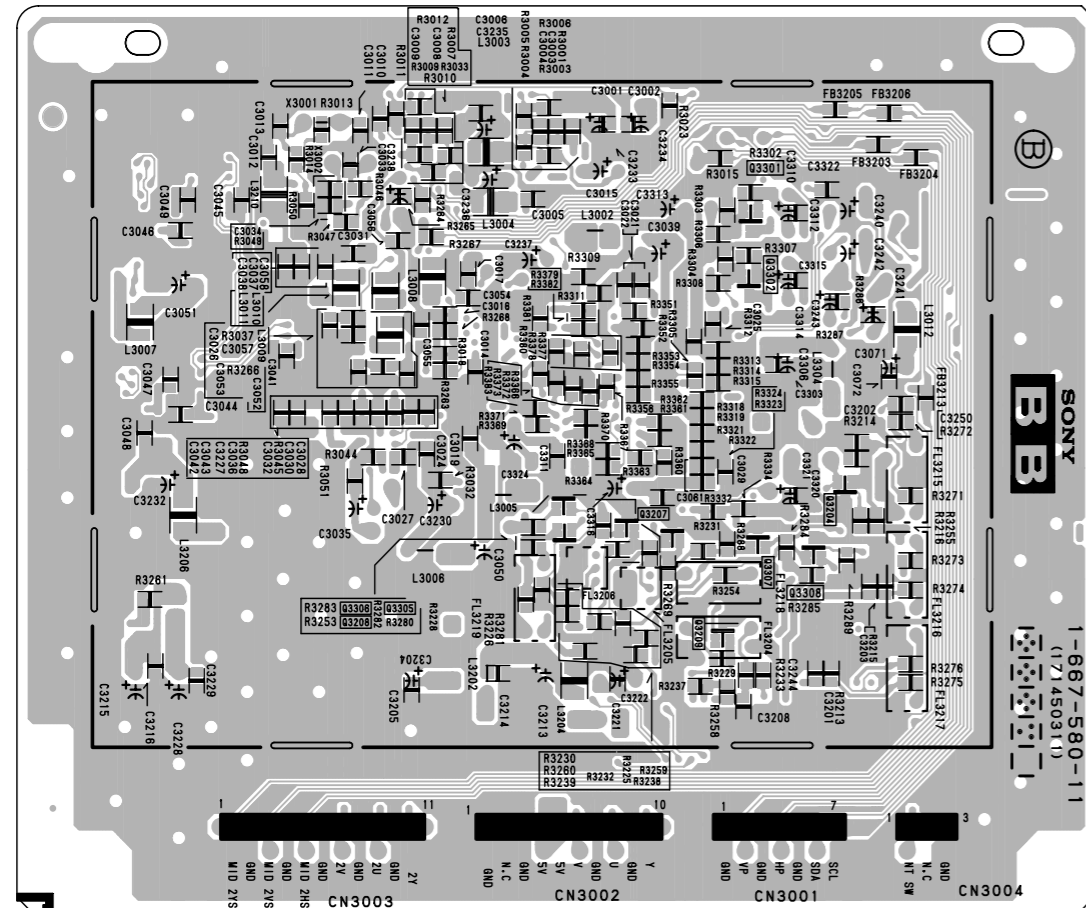
— A BOARD (Component Side) —





— BB BOARD (Conductor Side) —

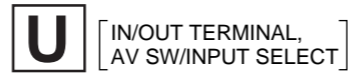
— BB BOARD (Component Side) —



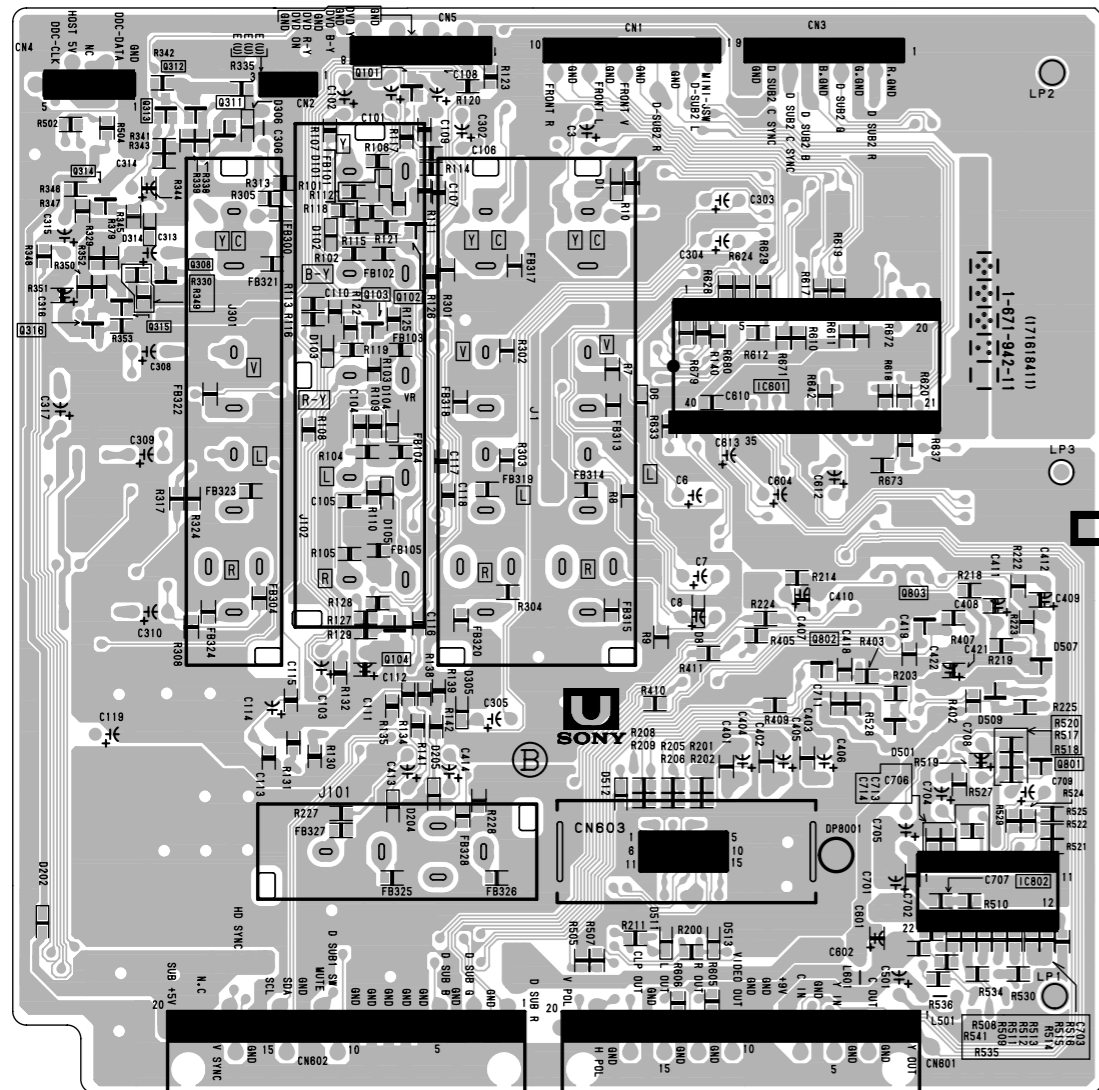
BB BOARD
Terminal name of semiconductors
in silk screen printed circuit (*)

| Ref. | * |
|--|---|
| Q3204, Q3207-Q3209, Q3213-Q3216, Q3305-Q3308 | ① |
| Q3018, Q3019, Q3201-Q3203, Q3205, Q3206, Q3210-Q3212 | ② |
| D3201, D3202 | ③ |

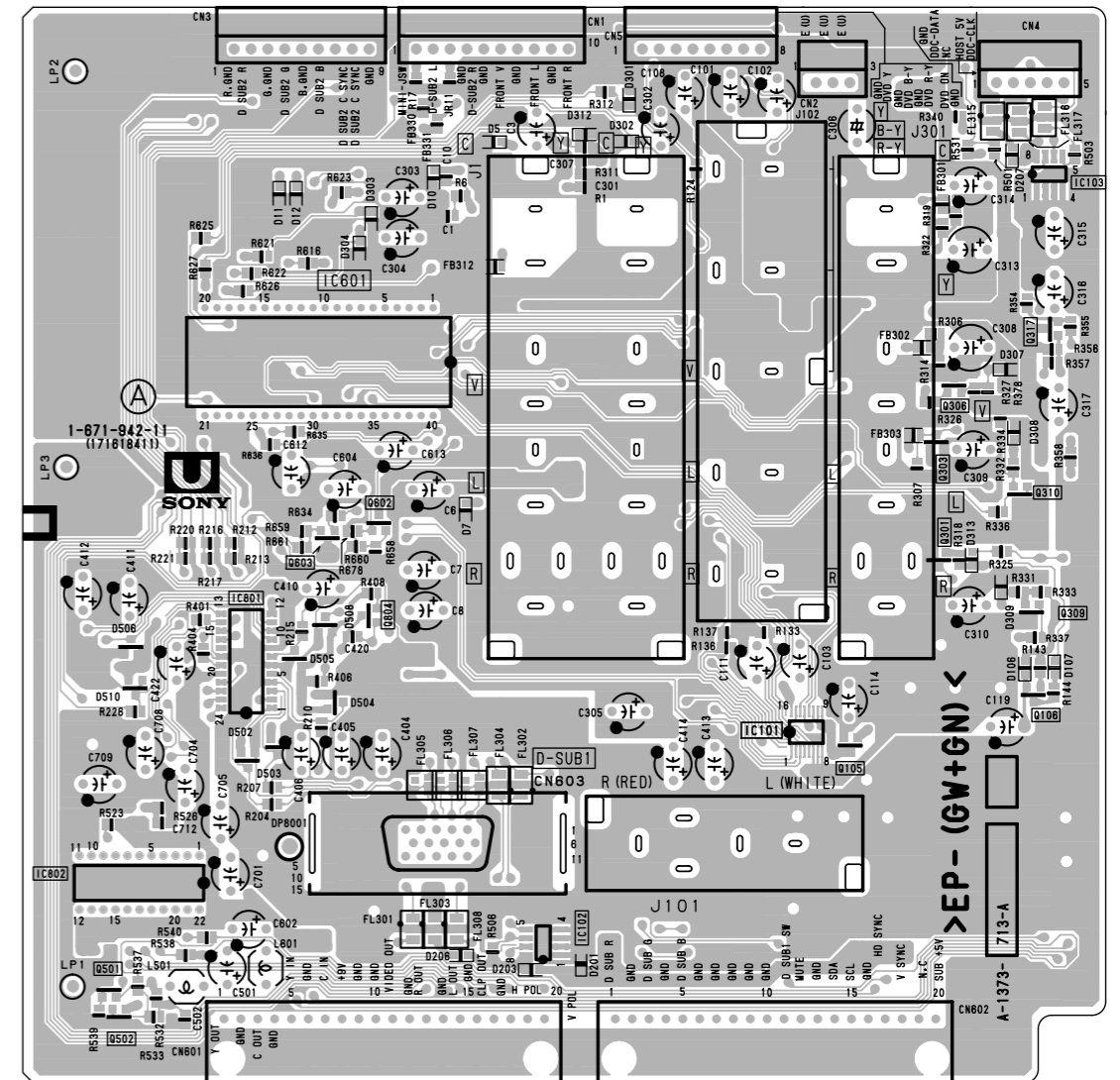
※: Refer to Terminal name of
semiconductors in silk screen
printed circuit (see page 64)



— U BOARD (Conductor Side) —



— U BOARD (Component Side) —

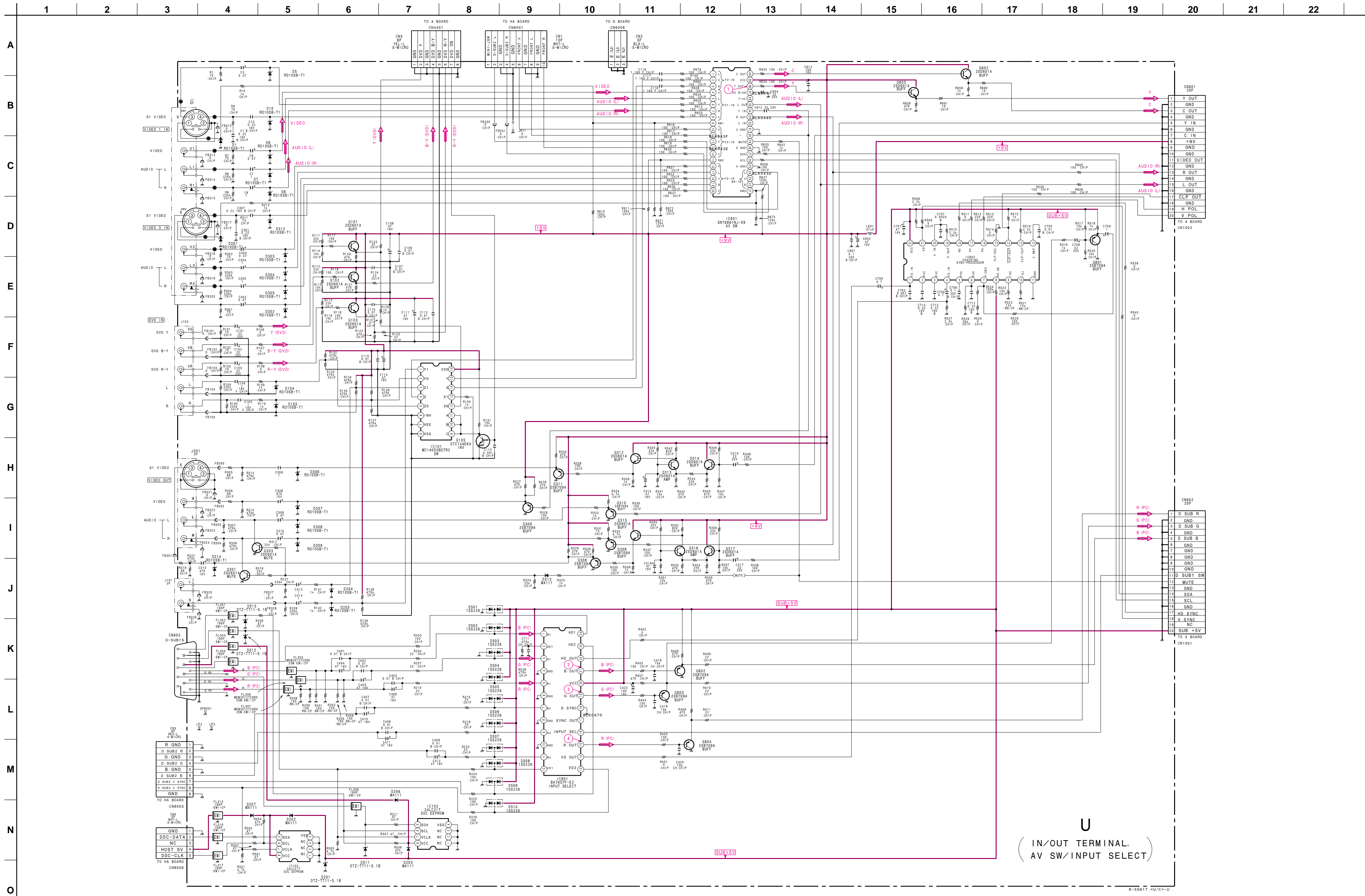


U BOARD
Terminal name of semiconductors
in silk screen printed circuit (*)

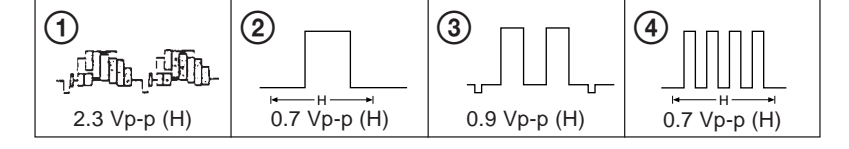
| Ref. | * |
|---|---|
| Q101, Q102, Q103, Q308, Q311-Q316 Q801-Q803 | ① |
| Q105, Q301, Q303, Q306, Q309, Q310, Q317, Q602, Q603, Q804 | ② |
| D1, D5-D8, D10, D104, D105, D201-D207, D301-D309, D312-D314, D511-D513 | ③ |
| D501, D507, D509 | ⑥ |
| D502-D506, D508, D510 | ⑦ |

*: Refer to Terminal name of
semiconductors in silk screen
printed circuit (see page 64)

(6) Schematic Diagram of U Board



• U BOARD WAVEFORMS

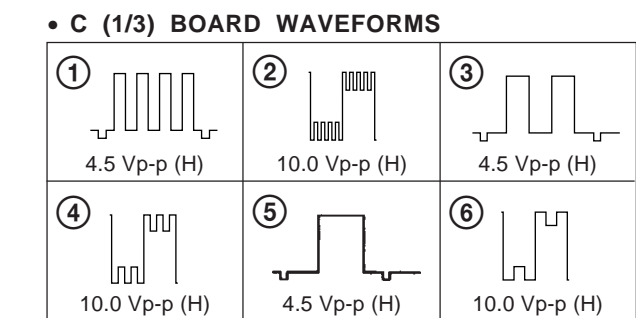
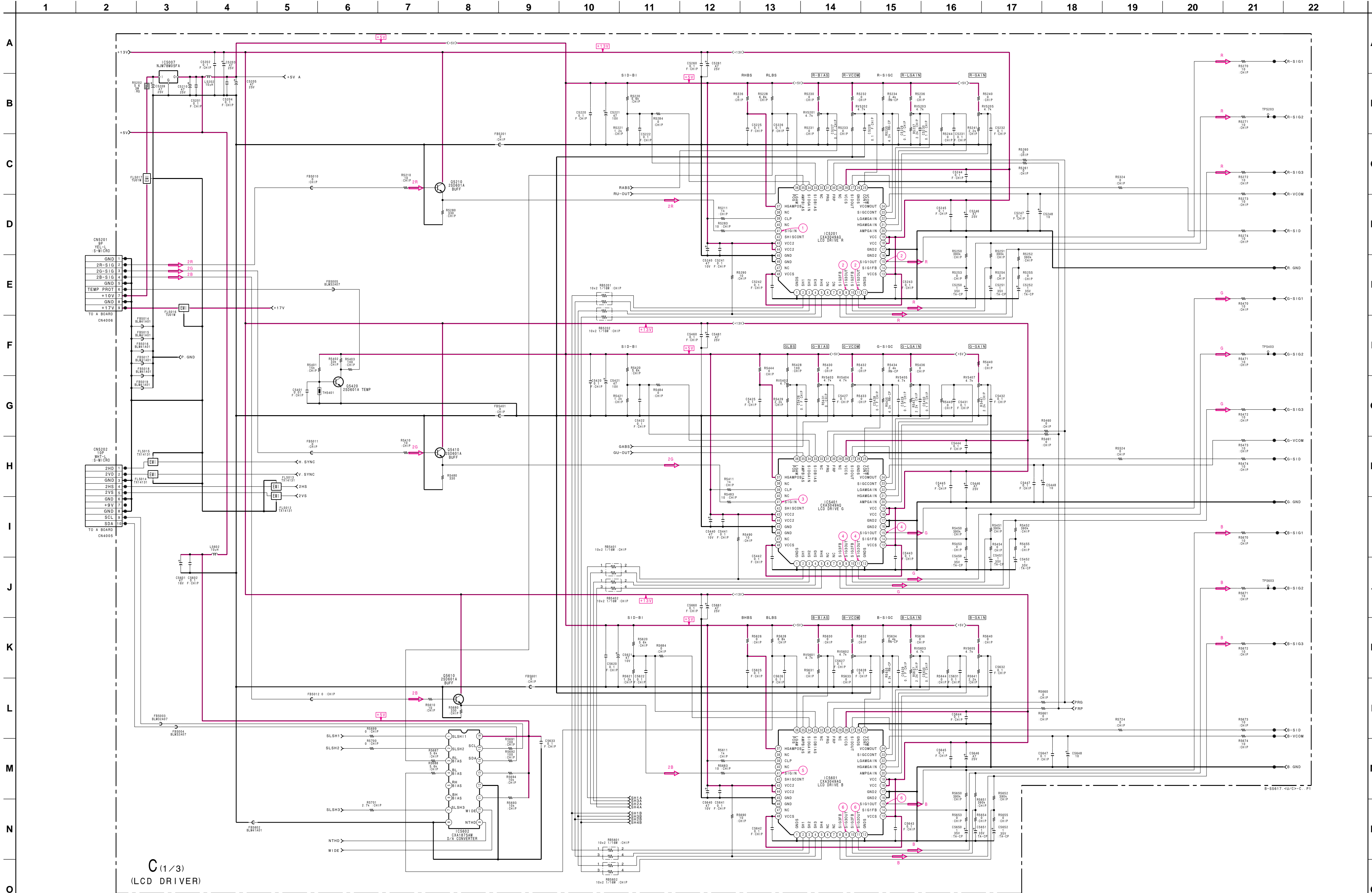


• U BOARD VOLTAGE LIST

| Ref. | Pin No. | Voltage [V] | Ref. | Pin No. | Voltage [V] | Ref. | Pin No. | Voltage [V] | Ref. | Pin No. | Voltage [V] | | |
|-------|---------|-------------|-------|---------|-------------|------|---------|-------------|------|---------|-------------|-----|-----|
| IC101 | 1 | 4.3 | IC801 | 1 | 3.6 | Q101 | 7 | 1.5 | Q311 | B | 4.6 | | |
| | 2 | 4.3 | | 2 | 3.5 | | 8 | 5.0 | | E | 5.3 | | |
| | 3 | 4.3 | | 3 | 3.6 | | 9 | 1.3 | | Q312 | B | 5.3 | |
| | 4 | 4.3 | | 4 | 4.4 | | 10 | 1.3 | | | E | 4.6 | |
| | 5 | 4.3 | | 5 | 0 | | 12 | 3.1 | | | Q313 | B | 2.6 |
| | 9 | 8.8 | | 6 | 4.5 | | 13 | 0.4 | | C | | 5.3 | |
| | 10 | 8.8 | | 7 | 0 | | 14 | 4.9 | | E | | 2.0 | |
| | 11 | 0 | | 8 | 0 | | 15 | 0 | | Q314 | B | 2.7 | |
| | 12 | 2.0 | | 9 | 0 | | 16 | 4.9 | | | E | 2.0 | |
| | 13 | 0 | | 10 | 0 | | 17 | 4.9 | | | B | 2.7 | |
| | 14 | 0 | | 11 | 0 | | 18 | 0.8 | | Q315 | B | 5.4 | |
| | 15 | 4.3 | | 12 | 3.8 | | 19 | 1.3 | | | E | 4.8 | |
| | | | | 13 | 3.8 | | 20 | 1.3 | | | Q316 | B | 2.6 |
| | IC102 | 5 | | 0.1 | 14 | | 0.2 | 21 | | 0.2 | | C | 5.4 |
| | | 6 | | 4.1 | Q102 | | B | 2.6 | | Q317 | | B | 2.7 |
| 7 | | 4.2 | E | 2.0 | | | | | | | | | |
| 3 | | 3.6 | Q103 | B | | 2.6 | Q318 | B | 2.7 | | | | |
| 6 | | 4.5 | | E | | 1.9 | | | | | | | |
| 7 | | 0 | | Q306 | | B | | 2.6 | Q801 | | B | 2.5 | |
| 9 | | 0 | C | | | 8.8 | Q802 | B | | | 3.1 | | |
| 11 | 0 | B | 0 | | | E | | 2.4 | | | | | |
| IC601 | 1 | 4.4 | Q308 | B | 3.1 | Q803 | | B | 2.1 | | | | |
| | 3 | 4.4 | | Q309 | B | | 3.8 | Q804 | B | 2.8 | | | |
| | 4 | 2.0 | | | 2 | | 0.2 | | Q310 | B | 3.8 | | |
| | 5 | 4.4 | | | 3 | | 3.6 | | | E | 4.4 | | |
| | 6 | 2.0 | | | 4 | | 5.7 | | | | | | |
| | 7 | 4.4 | | | 5 | | 0.5 | | | | | | |
| | 15 | 2.1 | | | 6 | | 4.4 | | | | | | |
| | 16 | 2.0 | | | 7 | | 4.4 | | | | | | |
| | 17 | 4.4 | | | 8 | | 3.3 | | | | | | |
| | 18 | 2.0 | | | 9 | | 5.0 | | | | | | |
| | 19 | 4.4 | | | 10 | | 2.0 | | | | | | |
| | 20 | 3.2 | | | 11 | | 4.4 | | | | | | |
| | | | | | 12 | | 0.1 | | | | | | |
| | | 13 | 4.4 | | | | | | | | | | |
| | | 14 | 3.7 | | | | | | | | | | |
| IC802 | 1 | 5.9 | Q309 | B | 3.8 | Q803 | B | 2.1 | | | | | |
| | 2 | 0.2 | | Q310 | B | | 4.4 | Q804 | B | 2.8 | | | |
| | 3 | 4.4 | | | E | | 4.4 | | | | | | |
| | 4 | 4.4 | | | | | | | | | | | |
| | 5 | 5.7 | | | | | | | | | | | |
| | 6 | 0.5 | | | | | | | | | | | |
| 20 | 3.2 | | | | | | | | | | | | |

U
(IN/OUT TERMINAL, AV SW/INPUT SELECT)

(7) Schematic Diagram of C (1/3) Board



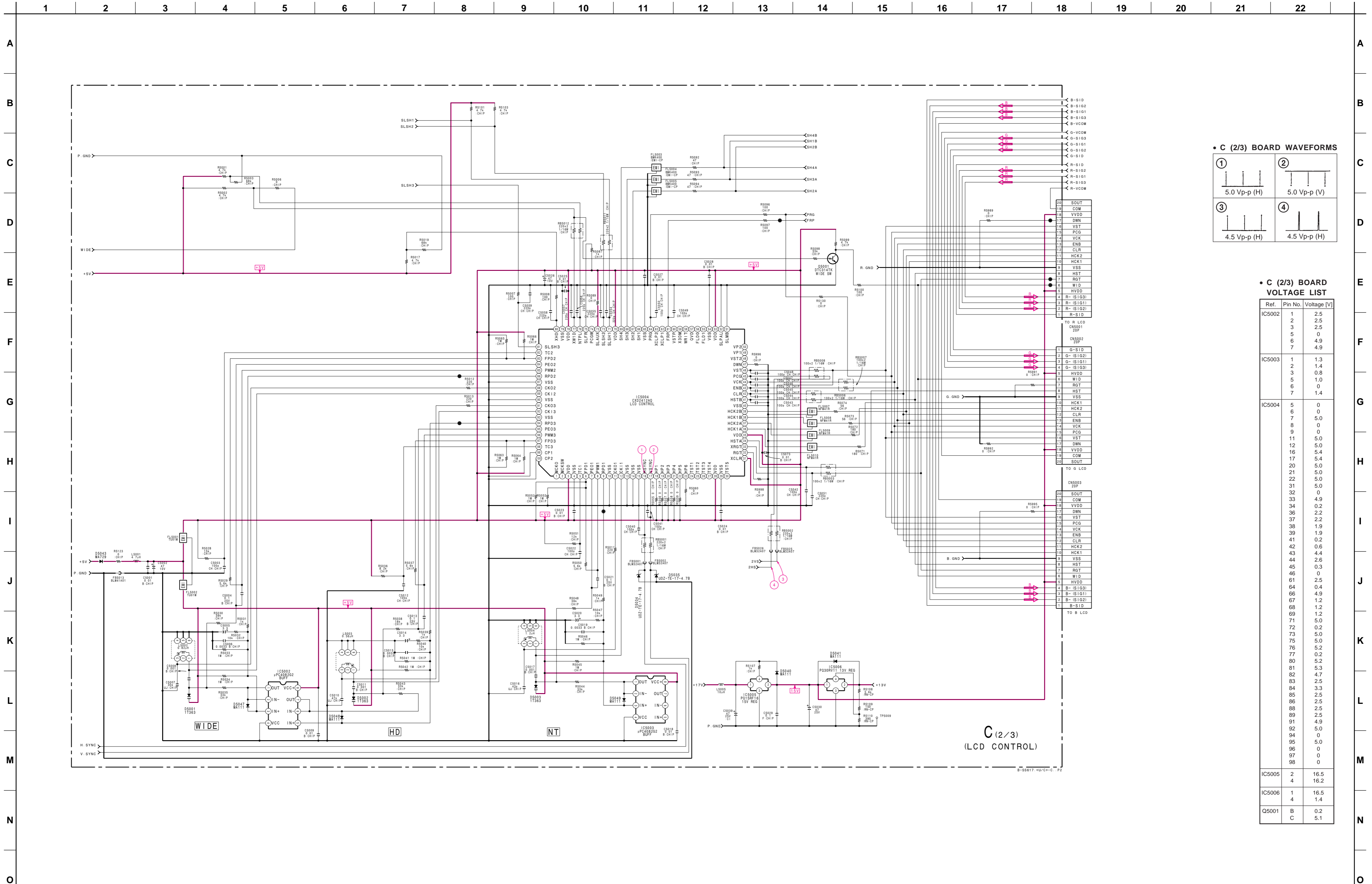
• C (1/3) BOARD VOLTAGE LIST

| Ref. | Pin No. | Voltage [V] | Ref. | Pin No. | Voltage [V] | Ref. | Pin No. | Voltage [V] | Ref. | Pin No. | Voltage [V] |
|--------|---------|-------------|--------|---------|-------------|--------|---------|-------------|--------|---------|-------------|
| IC5201 | 2 | 1.2 | IC5401 | 2 | 1.2 | IC5601 | 2 | 1.2 | IC5602 | 1 | 0 |
| | 3 | 1.2 | | 3 | 1.2 | | 3 | 1.2 | | 2 | 0 |
| | 4 | 5.1 | | 4 | 5.1 | | 4 | 5.1 | | 3 | 2.6 |
| | 5 | 1.2 | | 5 | 1.2 | | 5 | 1.2 | | 4 | 2.9 |
| | 8 | 6.8 | | 8 | 6.8 | | 8 | 6.8 | | 7 | 0.4 |
| | 9 | 6.8 | | 9 | 6.8 | | 9 | 6.8 | | 9 | 4.7 |
| | 10 | 6.8 | | 10 | 6.8 | | 10 | 6.8 | | 10 | 0 |
| | 11 | 6.8 | | 11 | 6.8 | | 11 | 6.8 | | 11 | 5.1 |
| | 14 | 6.8 | | 14 | 6.8 | | 14 | 6.8 | | 13 | 5.1 |
| | 15 | 6.8 | | 15 | 6.8 | | 15 | 6.8 | | 14 | 4.9 |
| | 20 | 3.3 | | 20 | 3.3 | | 20 | 3.3 | | 15 | 5.1 |
| | 21 | 0 | | 21 | 0 | | 21 | 0 | | | |
| | 22 | 2.7 | | 22 | 2.7 | | 22 | 2.7 | Q5410 | B | 2.8 |
| | 23 | 3.2 | | 23 | 3.2 | | 23 | 3.2 | | E | 2.6 |
| | 24 | 6.3 | | 24 | 6.3 | | 24 | 6.3 | | | |
| | 25 | 1.4 | | 25 | 1.4 | | 25 | 1.4 | Q5420 | B | 0.7 |
| | 27 | 6.8 | | 27 | 6.8 | | 27 | 6.8 | | C | 0 |
| | 30 | 3.4 | | 30 | 3.4 | | 30 | 3.4 | | | |
| | 31 | 0.3 | | 31 | 0.3 | | 31 | 0.3 | Q5610 | B | 2.8 |
| | 33 | 0.9 | | 33 | 0.9 | | 33 | 0.9 | | E | 2.6 |
| | 34 | 0.9 | | 34 | 0.9 | | 34 | 0.9 | | | |
| | 35 | 1.3 | | 35 | 1.3 | | 35 | 1.3 | | | |
| | 36 | 3.7 | | 36 | 3.7 | | 36 | 3.7 | | | |
| | 37 | 5.1 | | 37 | 5.1 | | 37 | 5.1 | | | |
| | 39 | 5.1 | | 39 | 5.1 | | 39 | 5.1 | | | |
| | 41 | 2.6 | | 41 | 2.6 | | 41 | 2.6 | | | |

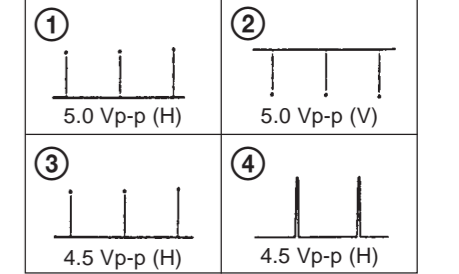
Schematic diagram
← U board

Schematic diagram
C (1/3) board →

(8) Schematic Diagram of C (2/3) Board



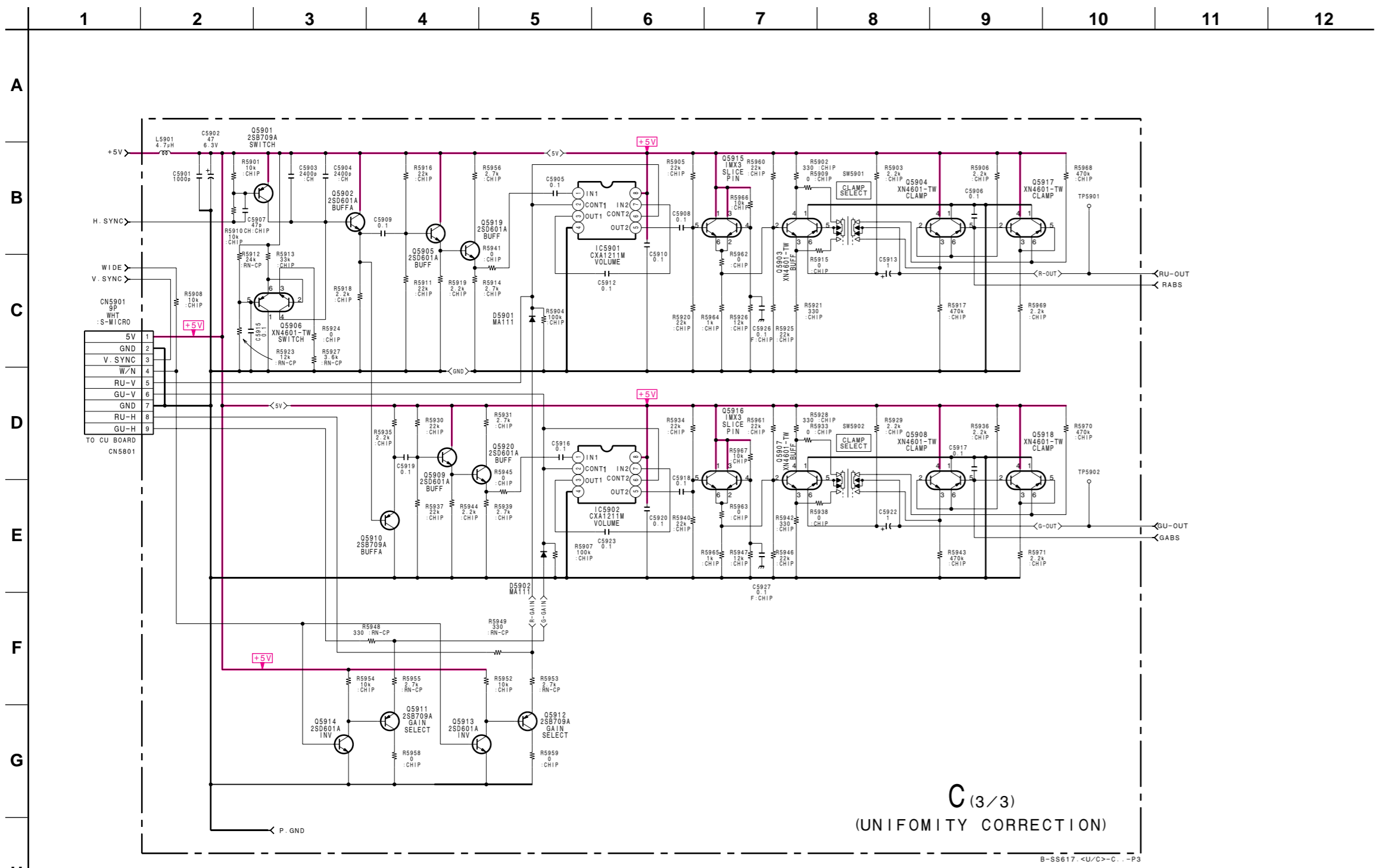
• C (2/3) BOARD WAVEFORMS



• C (2/3) BOARD VOLTAGE LIST

| Ref. | Pin No. | Voltage [V] |
|--------|---------|-------------|
| IC5002 | 1 | 2.5 |
| | 2 | 2.5 |
| | 3 | 2.5 |
| | 5 | 0 |
| | 6 | 4.9 |
| | 7 | 4.9 |
| | IC5003 | 1 |
| 2 | | 1.4 |
| 3 | | 0.8 |
| 5 | | 1.0 |
| 6 | | 0 |
| 7 | | 1.4 |
| IC5004 | | 5 |
| | 6 | 0 |
| | 7 | 5.0 |
| | 8 | 0 |
| | 9 | 0 |
| | 11 | 5.0 |
| | 12 | 5.0 |
| | 16 | 5.4 |
| | 17 | 5.4 |
| | 20 | 5.0 |
| | 21 | 5.0 |
| | 22 | 5.0 |
| | 31 | 5.0 |
| | 32 | 0 |
| | 33 | 4.9 |
| | 34 | 0.2 |
| | 36 | 2.2 |
| | 37 | 2.2 |
| 38 | 1.9 | |
| 39 | 1.9 | |
| 41 | 0.2 | |
| 42 | 0.6 | |
| 43 | 4.4 | |
| 44 | 2.6 | |
| 45 | 0.3 | |
| 46 | 0 | |
| 61 | 2.5 | |
| 64 | 0.4 | |
| 66 | 4.9 | |
| 67 | 1.2 | |
| 68 | 1.2 | |
| 69 | 1.2 | |
| 71 | 5.0 | |
| 72 | 0.2 | |
| 73 | 5.0 | |
| 75 | 5.0 | |
| 76 | 5.2 | |
| 77 | 0.2 | |
| 80 | 5.2 | |
| 81 | 5.3 | |
| 82 | 4.7 | |
| 83 | 2.5 | |
| 84 | 3.3 | |
| 85 | 2.5 | |
| 86 | 2.5 | |
| 88 | 2.5 | |
| 89 | 2.5 | |
| 91 | 4.9 | |
| 92 | 5.0 | |
| 94 | 0 | |
| 95 | 5.0 | |
| 96 | 0 | |
| 97 | 0 | |
| 98 | 0 | |
| IC5005 | 2 | 16.5 |
| | 4 | 16.2 |
| IC5006 | 1 | 16.5 |
| | 4 | 1.4 |
| Q5001 | B | 0.2 |
| | C | 5.1 |

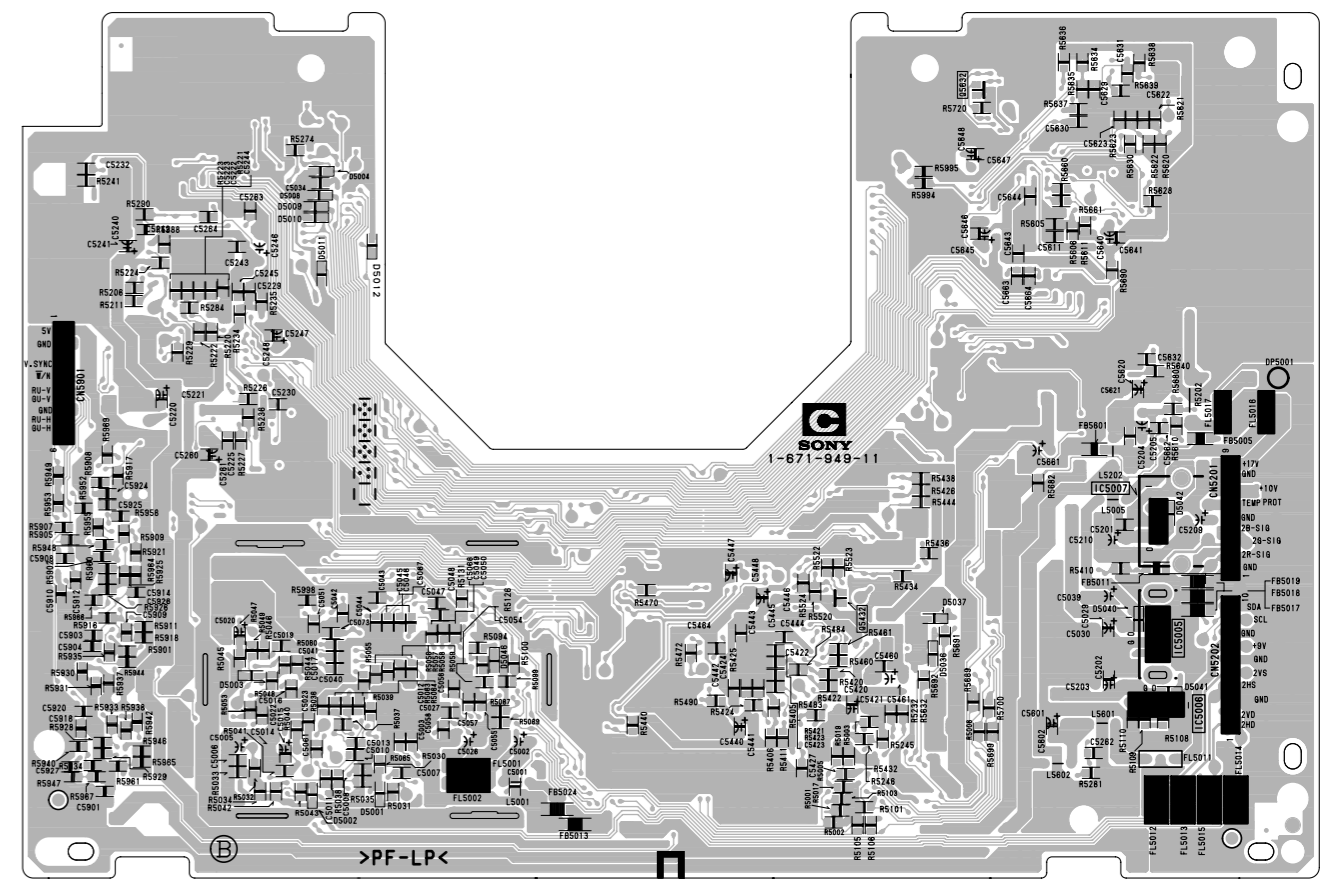
(9) Schematic Diagram of C (3/3) Board



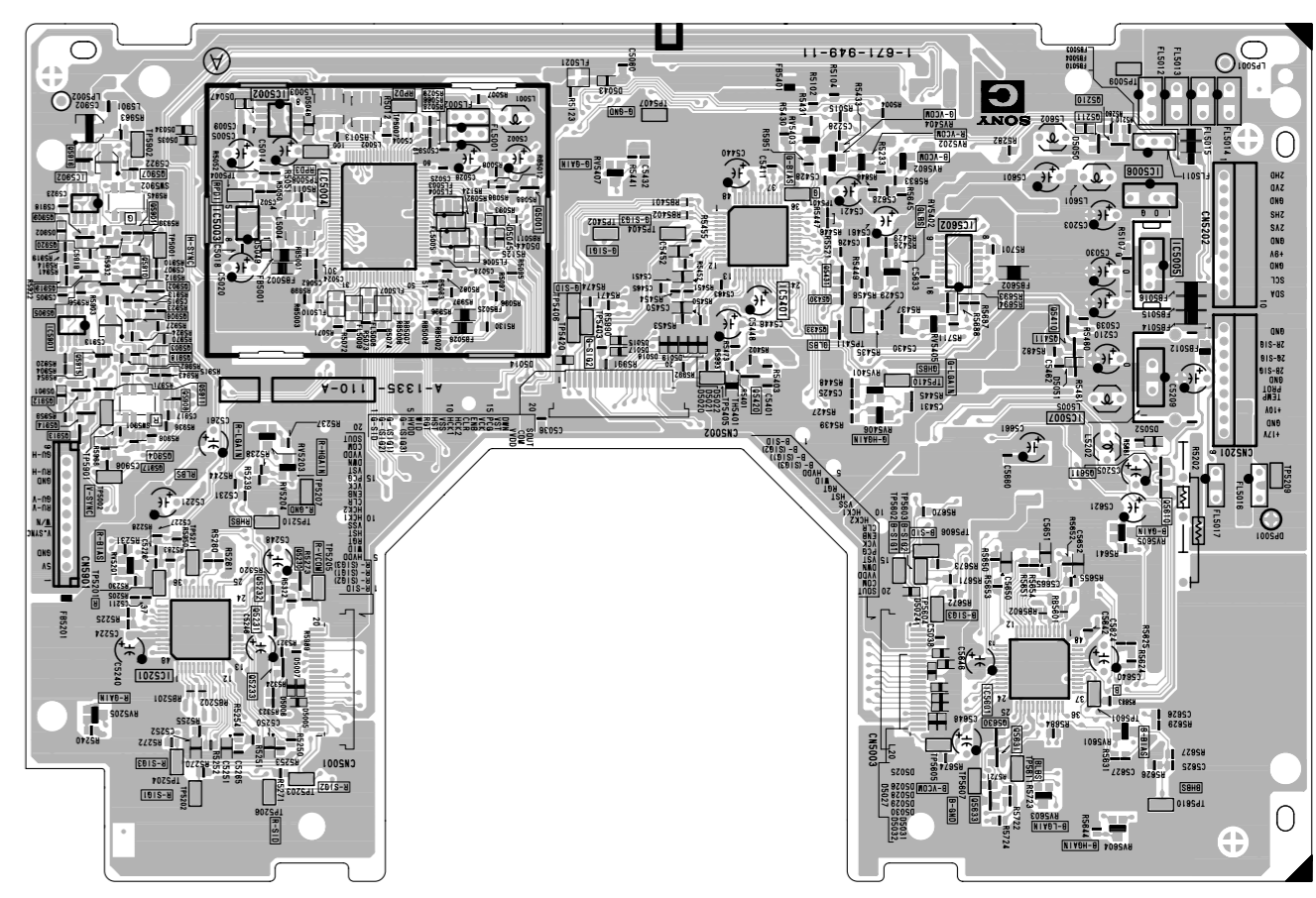
• C (3/3) BOARD VOLTAGE LIST

| Ref. | Pin No. | Voltage [V] | Ref. | Pin No. | Voltage [V] | Ref. | Pin No. | Voltage [V] | Ref. | Pin No. | Voltage [V] | | |
|--------|---------|-------------|-------|---------|-------------|-------|---------|-------------|-------|---------|-------------|-----|-----|
| IC5901 | 1 | 3.2 | Q5904 | ⓐ | 2.2 | Q5909 | B | 2.5 | Q5916 | ⓐ | 2.1 | | |
| | 2 | 1.3 | | ⓑ | 2.8 | | E | 1.9 | | ⓑ | 2.8 | | |
| | 3 | 2.7 | | ⓒ | 5.0 | Q5910 | B | 3.2 | | ⓒ | 2.6 | | |
| | 5 | 2.1 | | ⓓ | 1.6 | | C | 3.8 | | ⓓ | 2.1 | | |
| | 6 | 1.3 | | ⓔ | 2.2 | | E | 3.8 | | ⓔ | 2.1 | | |
| | 7 | 3.0 | | Q5905 | B | 2.5 | Q5911 | B | | 5.0 | Q5917 | ⓐ | 1.5 |
| | IC5902 | 1 | | | 3.3 | E | | 1.9 | | C | | 0 | ⓑ |
| 2 | | 1.2 | Q5906 | | ⓐ | 2.3 | E | 1.4 | ⓒ | 1.5 | | | |
| 3 | | 2.4 | | | ⓑ | 1.7 | Q5912 | B | 5.0 | ⓓ | | 1.3 | |
| 5 | | 1.5 | | | ⓒ | 3.8 | | E | 1.5 | ⓔ | | 0.7 | |
| 6 | | 1.2 | ⓔ | | 1.7 | Q5913 | B | 0 | ⓐ | 1.2 | | | |
| 7 | | 3.6 | ⓔ | | 2.3 | | C | 5.0 | ⓑ | 1.2 | | | |
| Q5901 | | B | 4.7 | Q5907 | ⓐ | 2.1 | Q5914 | B | 0 | Q5919 | B | 2.5 | |
| | C | 3.8 | ⓑ | | 1.5 | C | | 5.0 | C | | 5.0 | | |
| Q5902 | B | 3.8 | Q5908 | ⓐ | 2.0 | Q5915 | ⓐ | 5.0 | Q5920 | B | 1.9 | | |
| | E | 3.2 | | ⓑ | 2.1 | | ⓑ | 2.1 | | C | 3.8 | | |
| Q5903 | ⓐ | 1.5 | Q5908 | ⓒ | 1.5 | Q5915 | ⓒ | 5.0 | Q5920 | E | 1.3 | | |
| | ⓑ | 3.6 | | ⓔ | 1.3 | | ⓔ | 2.6 | | ⓔ | 2.6 | | |
| | ⓒ | 1.5 | | ⓔ | 2.0 | | ⓔ | 2.6 | | ⓔ | 2.6 | | |
| | ⓓ | 2.1 | | ⓔ | 2.0 | | ⓔ | 2.1 | | ⓔ | 2.1 | | |

— C BOARD (Conductor Side) —



— C BOARD (Component Side) —

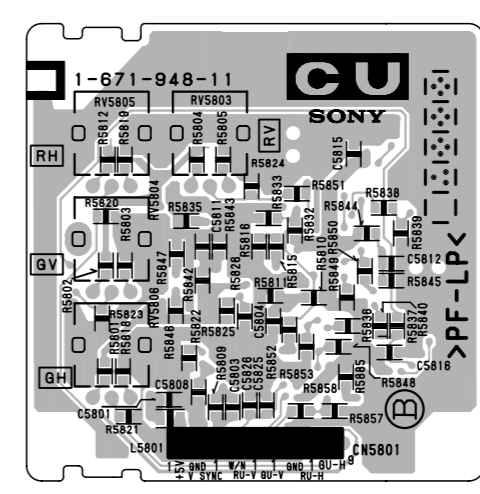


C BOARD Terminal name of semiconductors in silk screen printed circuit (*)

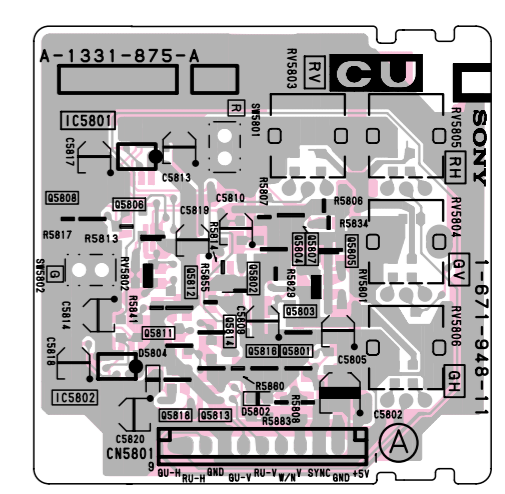
| Ref. | * |
|---|---|
| Q5001, Q5210, Q5410, Q5420, Q5610, Q5901, Q5902, Q5905, Q5909-Q5914, Q5919, Q5920 | ⓐ |
| Q5915, Q5916 | ⓑ |
| Q5903, Q5904, Q5906-Q5908, Q5917, Q5918 | ⓒ |
| D5001-D5003, D5034, D5035, D5040, D5041, D5043, D5047-D5049, D5901, D5902 | ⓓ |

※: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 64)

— CU BOARD (Conductor Side) —



— CU BOARD (Component Side) —

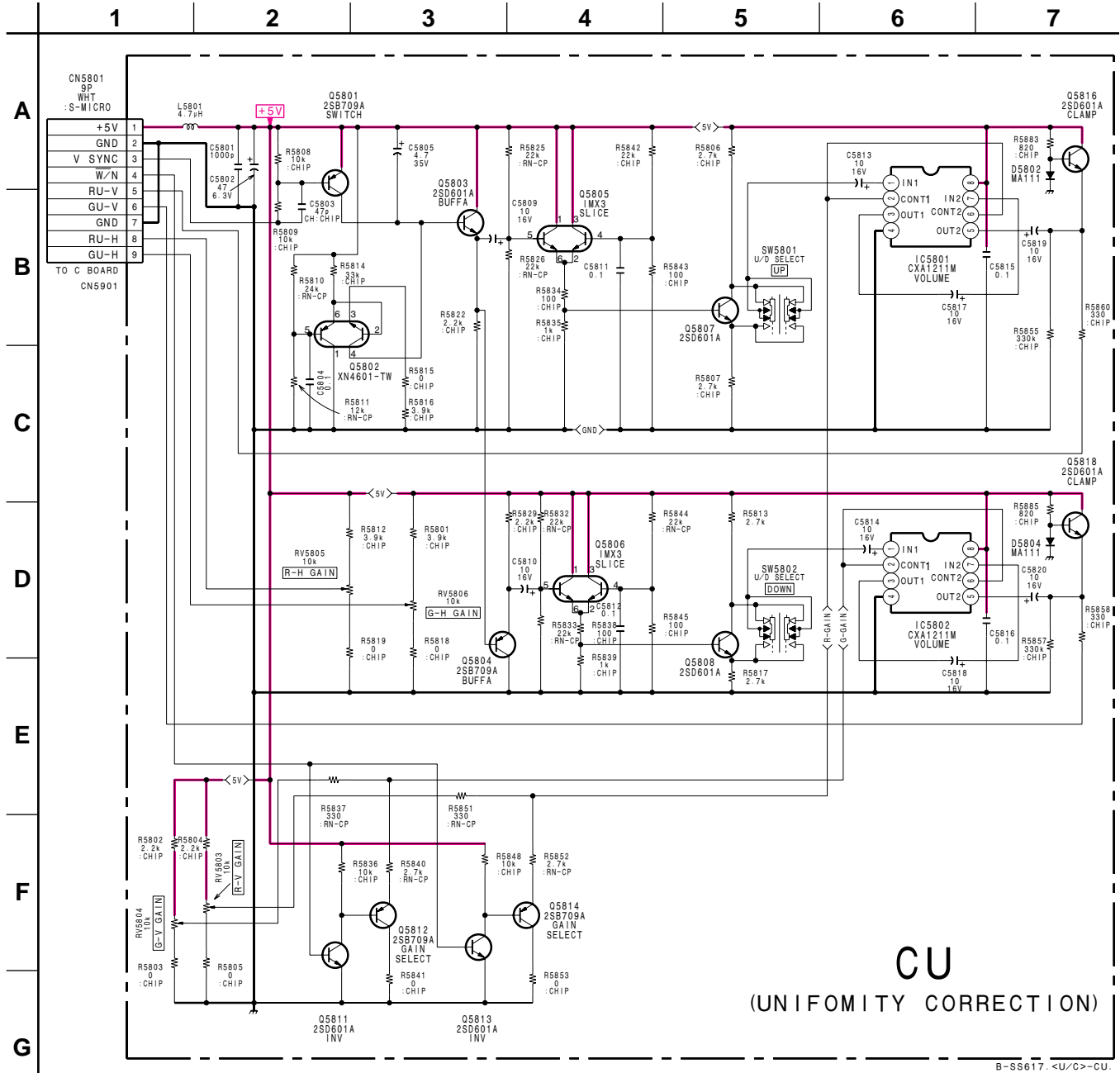


CU BOARD Terminal name of semiconductors in silk screen printed circuit (*)

| Ref. | * |
|--|---|
| Q5801, Q5803, Q5804, Q5807, Q5808, Q5811-Q5814, Q5816, Q5818 | ⓐ |
| Q5805, Q5806 | ⓑ |
| Q5802 | ⓒ |
| D5802, D5804 | ⓓ |

※: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 64)

(10) Schematic Diagram of CU Board



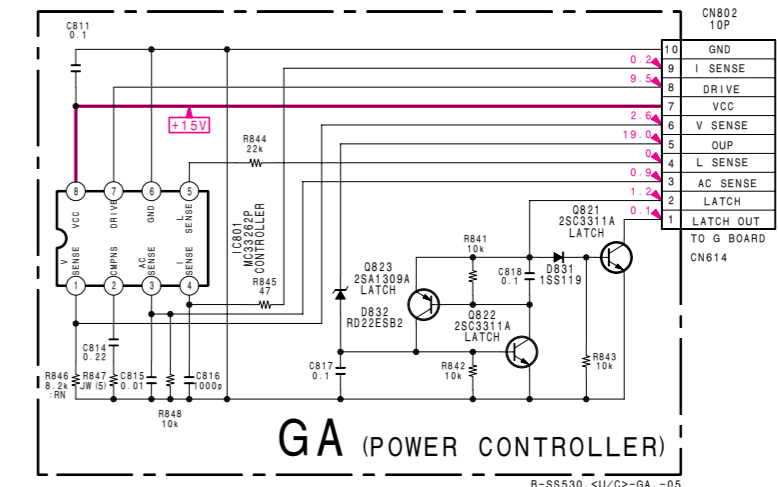
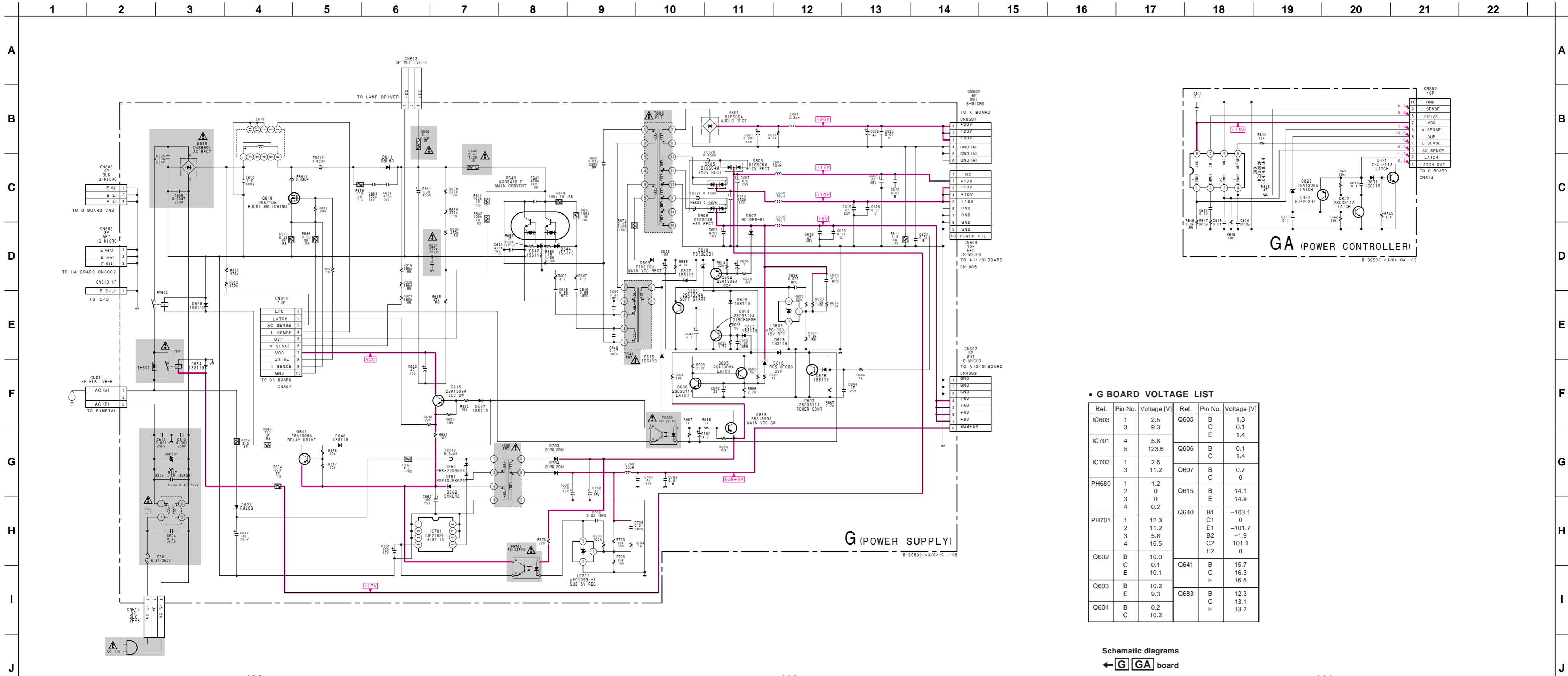
CU
(UNIFORMITY CORRECTION)

B-SS617- <U/C>-CU.

• CU BOARD VOLTAGE LIST

| Ref. | Pin No. | Voltage [V] | Ref. | Pin No. | Voltage [V] | Ref. | Pin No. | Voltage [V] | Ref. | Pin No. | Voltage [V] | | | | |
|--------|---------|-------------|-------|---------|-------------|-------|---------|-------------|-------|---------|-------------|-------|-------|-------|-----|
| IC5801 | 1 | 2.7 | Q5802 | ① | 0 | Q5806 | ② | 1.8 | Q5812 | C | 5.0 | | | | |
| | 2 | 2.6 | | ② | 2.2 | | ③ | 1.8 | | Q5813 | B | 5.1 | | | |
| | 3 | 2.1 | | ③ | 1.3 | | ④ | 0 | | | Q5814 | E | 2.6 | | |
| | 5 | 2.2 | | ④ | 4.0 | | ⑤ | 2.4 | | | | Q5816 | B | 0 | |
| | 6 | 2.7 | | ⑤ | 1.7 | | ⑥ | 1.8 | | | | | Q5817 | C | 5.0 |
| | 7 | 2.7 | | ⑥ | 2.3 | | Q5818 | B | | | | | | 5.0 | |
| | | | | | | | | | | | | | | | E |
| IC5802 | 1 | 2.7 | Q5803 | B | 4.0 | Q5807 | B | 1.6 | Q5819 | B | 0.7 | | | | |
| | 2 | 2.6 | | E | 3.3 | | C | 4.0 | | Q5820 | E | 1.2 | | | |
| | 3 | 2.2 | Q5804 | B | 3.3 | | E | 1.0 | | | Q5821 | B | 5.0 | | |
| | 5 | 2.2 | | E | 3.9 | Q5808 | B | 1.6 | | | | Q5822 | E | 2.7 | |
| | 6 | 2.6 | | Q5805 | ② | | 1.8 | C | | | | | 4.1 | Q5823 | B |
| | 7 | 2.7 | ④ | | 0 | | E | 1.0 | | | | | Q5824 | | E |
| | | | | ⑤ | 2.4 | | Q5825 | B | | | | | | | 0.7 |
| | | | | | | | | | | | | | | | |
| Q5801 | B | 4.6 | Q5811 | B | 0 | | | | | | | | | | |
| | C | 3.9 | | | | | | | | | | | | | |

Schematic diagram
CU board



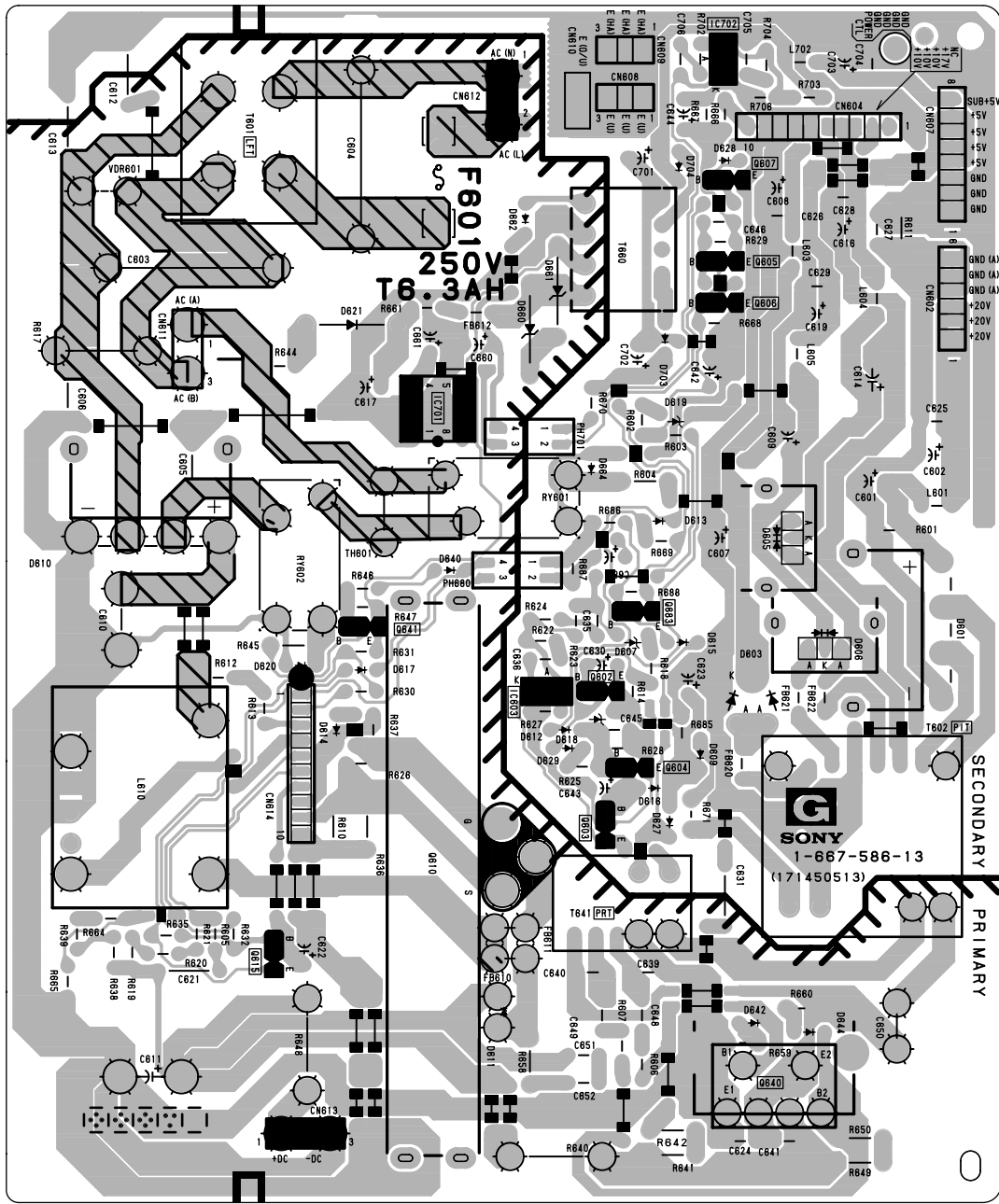
• G BOARD VOLTAGE LIST

| Ref. | Pin No. | Voltage [V] | Ref. | Pin No. | Voltage [V] |
|-------|---------|-------------|------|---------|-------------|
| IC603 | 1 | 2.5 | Q605 | B | 1.3 |
| | 3 | 9.3 | | C | 0.1 |
| | | | | E | 1.4 |
| IC701 | 4 | 5.8 | Q606 | B | 0.1 |
| | 5 | 123.6 | | C | 1.4 |
| IC702 | 1 | 2.5 | Q607 | B | 0.7 |
| | 3 | 11.2 | | C | 0 |
| PH680 | 1 | 1.2 | Q615 | B | 14.1 |
| | 2 | 0 | | E | 14.9 |
| | 3 | 0 | | | |
| | 4 | 0.2 | | | |
| PH701 | 1 | 12.3 | Q640 | B1 | -103.1 |
| | 2 | 11.2 | | C1 | 0 |
| | 3 | 5.8 | | E1 | -101.7 |
| | 4 | 16.5 | | B2 | -1.9 |
| Q602 | B | 10.0 | Q641 | B | 15.7 |
| | C | 0.1 | | C | 16.3 |
| | E | 10.1 | | E | 16.5 |
| Q603 | B | 10.2 | Q683 | B | 12.3 |
| | E | 9.3 | | C | 13.1 |
| Q604 | B | 0.2 | E | 13.2 | |
| | C | 10.2 | | | |

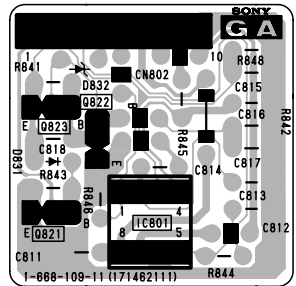
Schematic diagrams
← G GA board

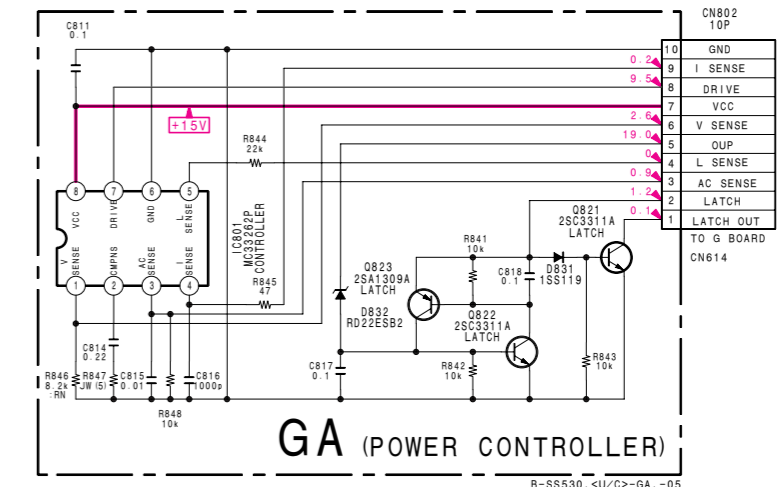
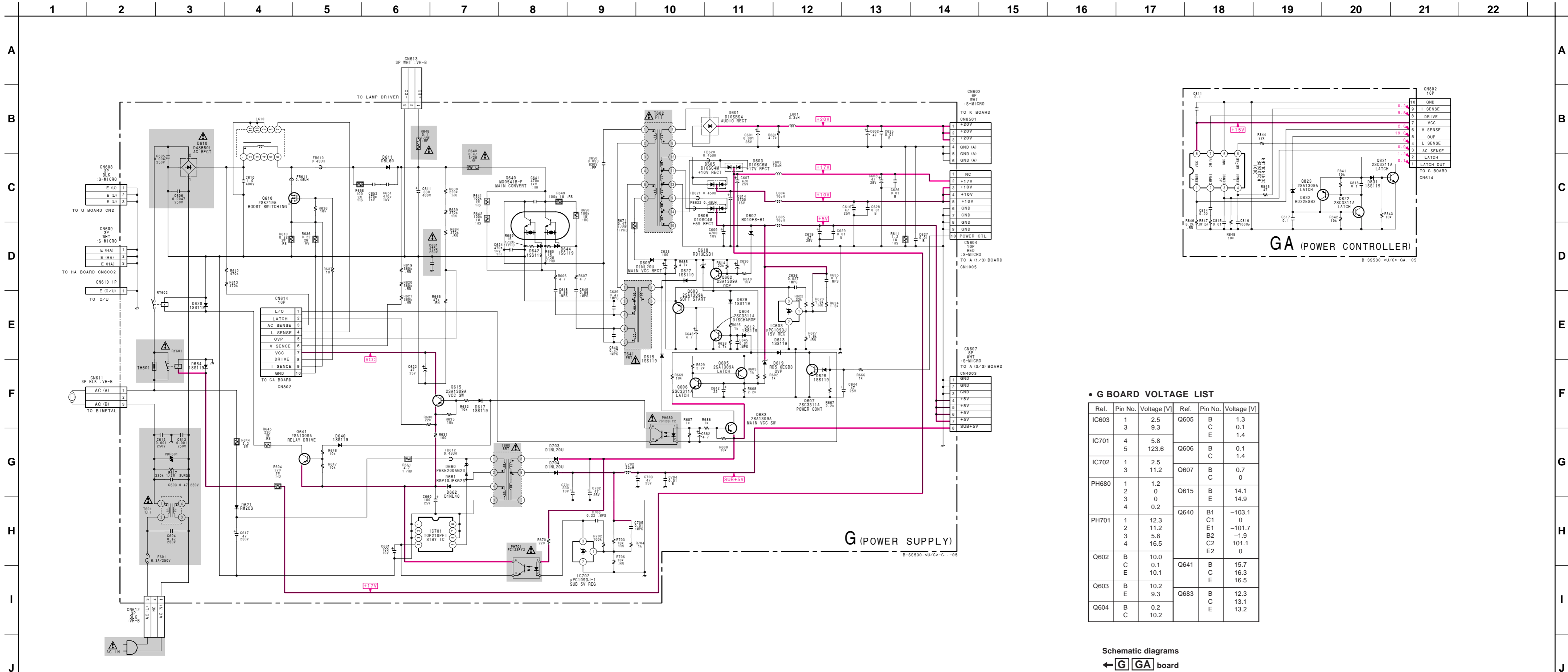


— G BOARD —



— GA BOARD —





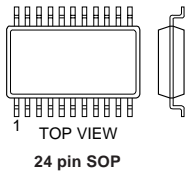
• G BOARD VOLTAGE LIST

| Ref. | Pin No. | Voltage [V] | Ref. | Pin No. | Voltage [V] |
|-------|---------|-------------|------|---------|-------------|
| IC603 | 1 | 2.5 | Q605 | B | 1.3 |
| | 3 | 9.3 | | C | 0.1 |
| | | | | E | 1.4 |
| IC701 | 4 | 5.8 | Q606 | B | 0.1 |
| | 5 | 123.6 | | C | 1.4 |
| IC702 | 1 | 2.5 | Q607 | B | 0.7 |
| | 3 | 11.2 | | C | 0 |
| PH680 | 1 | 1.2 | Q615 | B | 14.1 |
| | 2 | 0 | | E | 14.9 |
| | 3 | 0 | | | |
| | 4 | 0.2 | | | |
| PH701 | 1 | 12.3 | Q640 | B1 | -103.1 |
| | 2 | 11.2 | | C1 | 0 |
| | 3 | 5.8 | | E1 | -101.7 |
| | 4 | 16.5 | | B2 | -1.9 |
| Q602 | B | 10.0 | Q641 | B | 15.7 |
| | C | 0.1 | | C | 16.3 |
| | E | 10.1 | | E | 16.5 |
| Q603 | B | 10.2 | Q683 | B | 12.3 |
| | E | 9.3 | | C | 13.1 |
| Q604 | B | 0.2 | E | 13.2 | |
| | C | 10.2 | | | |

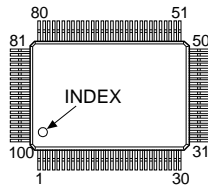
Schematic diagrams
← G GA board

5-5. SEMICONDUCTORS

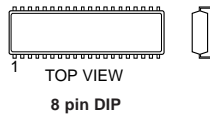
BA7657F-E2
μPC659AGS-E2



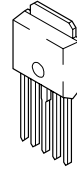
CXD2052Q
CXD2412AQ
HD6473947-IT2-O
HD6473947-IT2-OTP



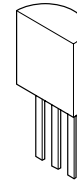
MC33262P
PWR-TOP210PFI
μPC4558C



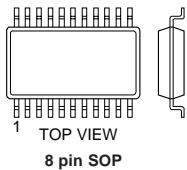
PQ3TZ53U



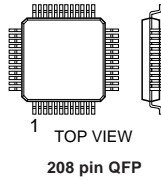
μPC1093J-1-T



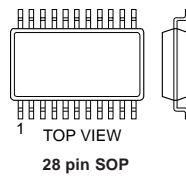
CXA1211M
NJM2233BM
μPC4082G2
24LC16BT/SN
24LC21AT/SN
24LC21T/SN



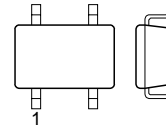
CXD2072AQ



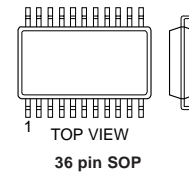
MSM514222B-30GS-KR1
μPD42280GU-30



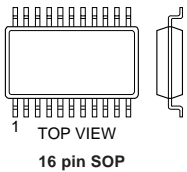
ST9143NL
TC7SET04FU
TC7SET08FU
TC7S08F
TC7S08F (TE85R)
TC7S32FU (TE85R)
TC74SHU04FU



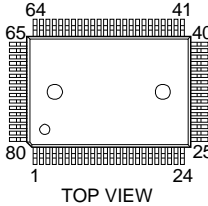
μPC1862GS-E2



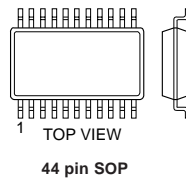
CXA1315M
CXA1875AM-T4
MC14053BDTR2
MC14528BF
MC74HC4053F
NJM2283M
NJM2284M



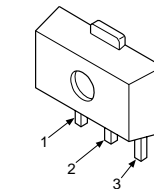
CXD2303AQ



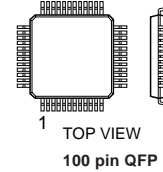
MSM548332-25TS-K



S-80743AL-A7-S
S-80743AL-A7-T1
μPC78L05T

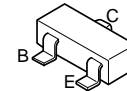
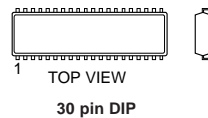


μPD6487GF-3BA

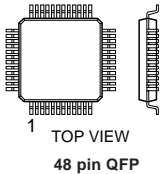


DTC114EK
DTC144EKA
DTC314TK-T-146
DTC314TKH04
2SA1162G
2SB709A-QRS-TX
2SD601A-Q
2SD601A-QRS-TX

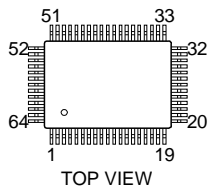
TA8776N



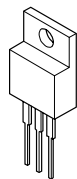
CXA1839Q
CXA1839Q-T6
CXA2011Q
CXA3049AQ-T6



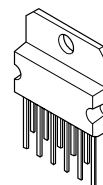
CXP85324A-260Q



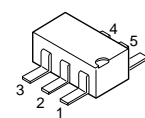
NJM78M05FA
μPC2409AHF



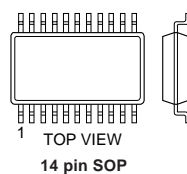
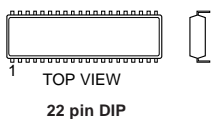
TDA2009A



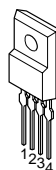
IMX3



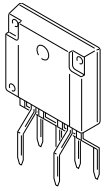
CXA2016S



PQ09RA1
PQ09RF11
PQ15RF16
PQ30RV11

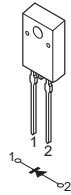


MX0541B-F

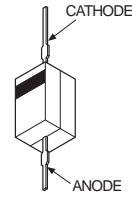


DTZ-TT11-3.9B
DTZ-TT11-5.1B
DTZ3.9B
DTZ4.7C
DTZ5.1B
HVU359TRF
MA111
MA111-TX
RD10SB-T1
RD10S-B
RD5.6SB-T1
RD5.6S-B
UDZ-TE-17-4.7B
1T363
1T363-04-T8A

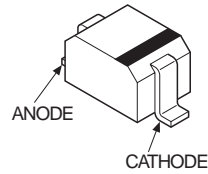
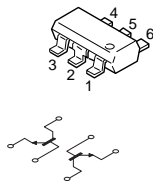
D5L60



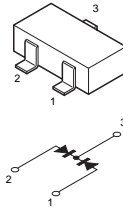
P6KE200AG23



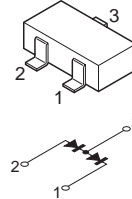
XN4215



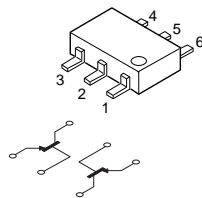
MA152WK
STZ6.8T
1SS184



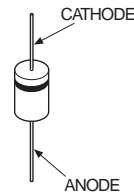
1SS226



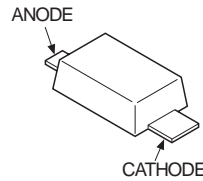
XN4401



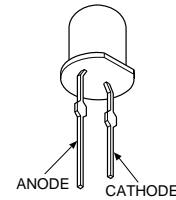
D1NL20U
RD5.6ESB3
RGP10JPKG23
RM2CS
S2LA20F



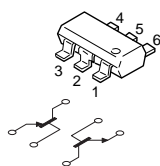
MA729
MA729-TX



TLG124A
TLO124
TLR124

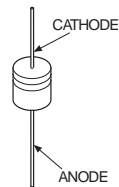


XN4601

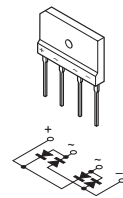
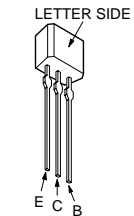


D1NL40-TA2
D1NL40-TR2
D10SBS4
D10SBS4F
D4SB60L

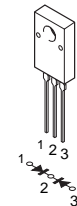
RD10ES-B1
RD13ES-B1
RD22ES-B2
RD30ES-B2
RD30ES-B3
1SS119-25
1SS119-25TD



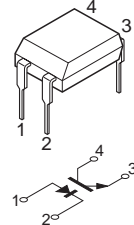
2SA1175-HFE
2SA1309A-QRSTA
2SC2785
2SC3311A-QRSTA



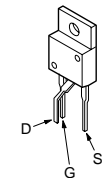
D10SC4M
D10SC6M



PC123F2
PC123FY2



2SK2195F04



MEMO

A series of horizontal dotted lines for writing.

SECTION 6 EXPLODED VIEWS

KL-W7000A/W9000A
RM-Y980

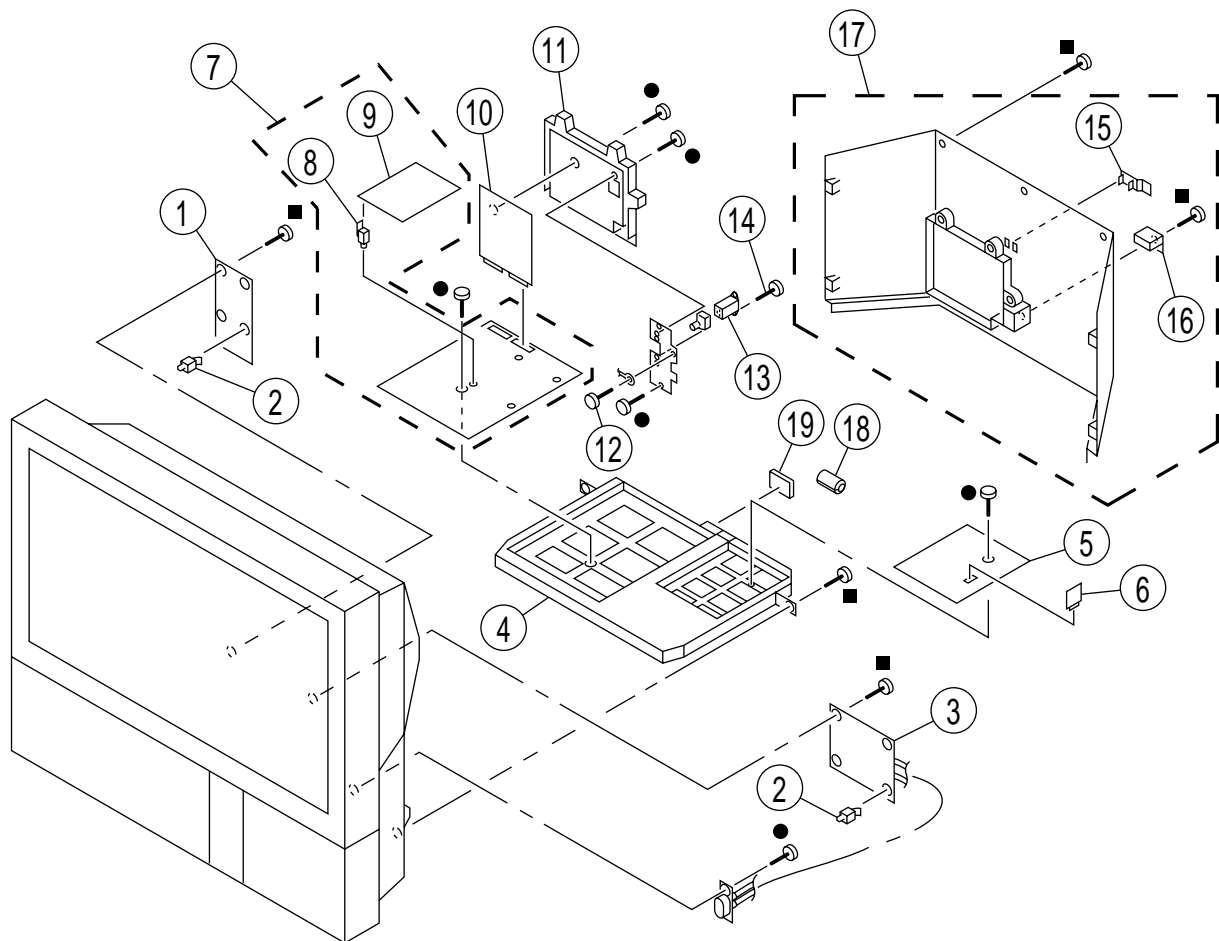
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine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

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

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

6-1. CHASSIS [W7000A]

- 7-685-648-79 +BVTP 3X12
- 7-685-663-79 +BVTP 4X16



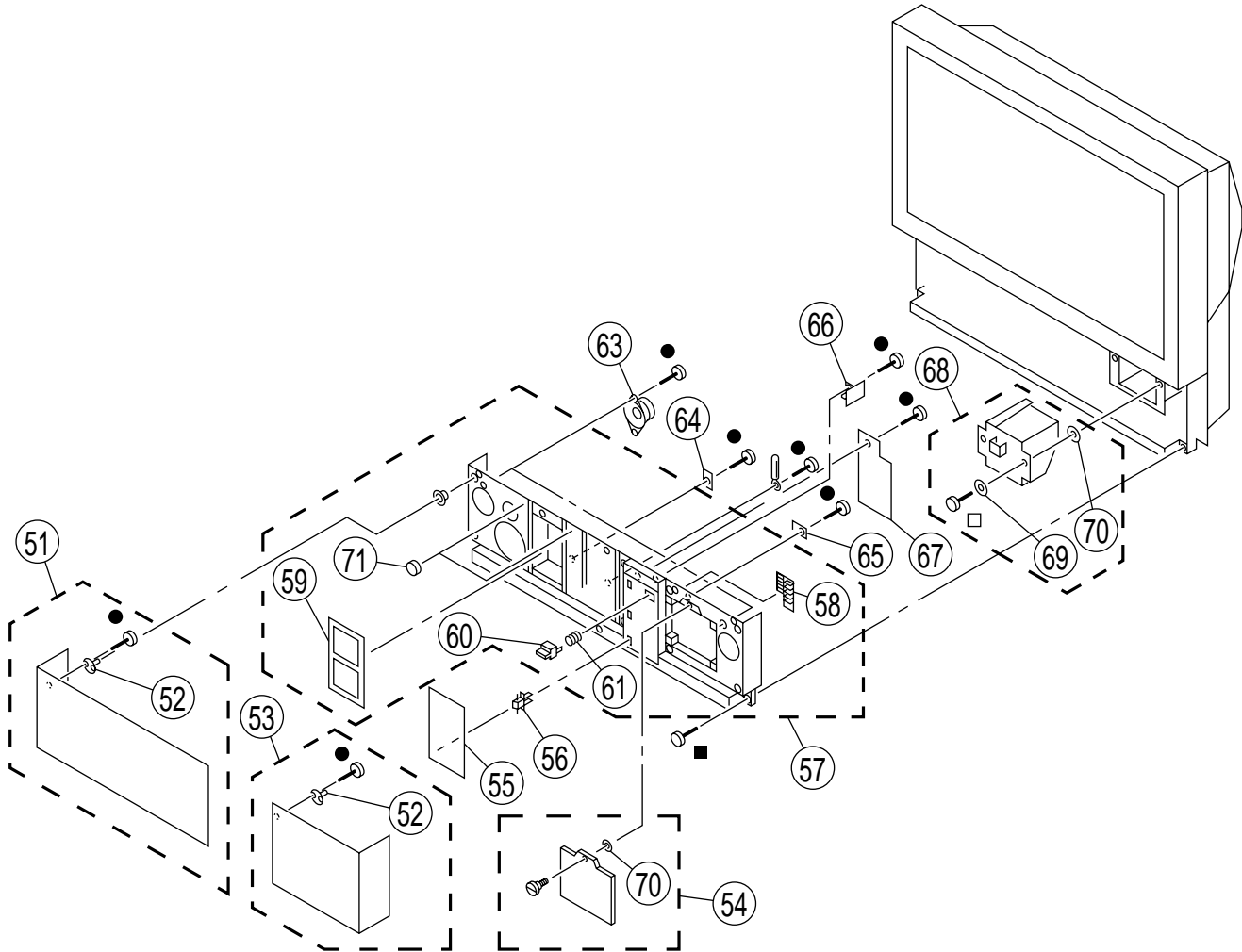
| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|-----------------------|-------------------------------|--------|---------|-----------------------|--------------------------------|--------|
| 1 | * A-1380-551-A | K BOARD, COMPLETE | | 10 | * A-1373-713-A | U BOARD, COMPLETE | |
| 2 | * 3-703-141-00 | HOLDER, PRINTED CIRCUIT BOARD | | 11 | * 4-056-402-21 | BRACKET, U | |
| 3 | Δ 1-473-545-13 | POWER BLOCK | | 12 | 4-389-025-01 | SCREW (M4) (EXT TOOTH WASHER) | |
| 4 | * 4-051-332-11 | BRACKET, MAIN | | 13 | Δ 1-251-662-11 | INLET, AC 3P(WITH NOISE FILTE) | |
| 5 | * A-1311-597-A | G BOARD, COMPLETE | | 14 | 4-052-345-01 | SCREW, (3X8) (+K), TAPPING | |
| 6 | * A-1311-631-A | GA BOARD, COMPLETE | | 15 | 4-329-127-00 | CLAMP, CORD | |
| 7 | * A-1298-732-A | A BOARD, COMPLETE | 8, 9 | 16 | 4-033-719-01 | BUCKLE, A | |
| 8 | * 3-657-516-00 | SUPPORT, PC BOARD | | 17 | X-4035-090-1 | COVER ASSY, REAR | 15, 16 |
| 9 | * A-1135-929-A | BB BOARD, COMPLETE | | 18 | 1-543-653-21 | CORE ASSY, BEAD | |
| | | | | 19 | 4-062-358-02 | COVER, GROMMET | |

6-2. FRONT COVER [W7000A]

- 7-685-648-79 +BVTP 3X12
- 7-685-663-79 +BVTP 4X16
- 7-683-421-04 HEXAGON SOCKET BOLT 4X12

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

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



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|-----------------------|--------|---------|-----------------------|---------------------|--------|
| 51 | X-4033-189-1 | PANEL (L) ASSY, FRONT | | 61 | 4-820-917-01 | SPRING, COMPRESSION | |
| 52 | 4-054-709-01 | STRIKE | 52 | 63 | 1-505-207-11 | SPEAKER (5.7CM) | |
| 53 | X-4033-188-1 | PANEL (R) ASSY, FRONT | 52 | 64 | * A-1390-908-A | TB BOARD, COMPLETE | |
| 54 | X-4035-092-1 | DOOR ASSY, LAMP | 70 | 65 | * A-1390-907-A | TA BOARD, COMPLETE | |
| 55 | X-4036-147-1 | DOOR ASSY | | 66 | * A-1372-569-A | HB BOARD, COMPLETE | |
| 56 | 3-703-035-11 | SHAFT, LID | | 67 | * A-1372-564-A | HA BOARD, COMPLETE | |
| 57 | X-4035-093-1 | COVER ASSY, FRONT | 58-61 | 68 | Δ A-1501-247-A | LAMP BLOCK ASSY | 69, 70 |
| 58 | 4-051-286-31 | BUTTON, MULTI | | 69 | 3-901-261-01 | WASHER | |
| 59 | X-4034-041-1 | FILTER ASSY | | 70 | * 3-650-537-00 | WASHER | |
| 60 | 4-051-285-01 | BUTTON, POWER | | 71 | 4-314-871-00 | CUSHION | |

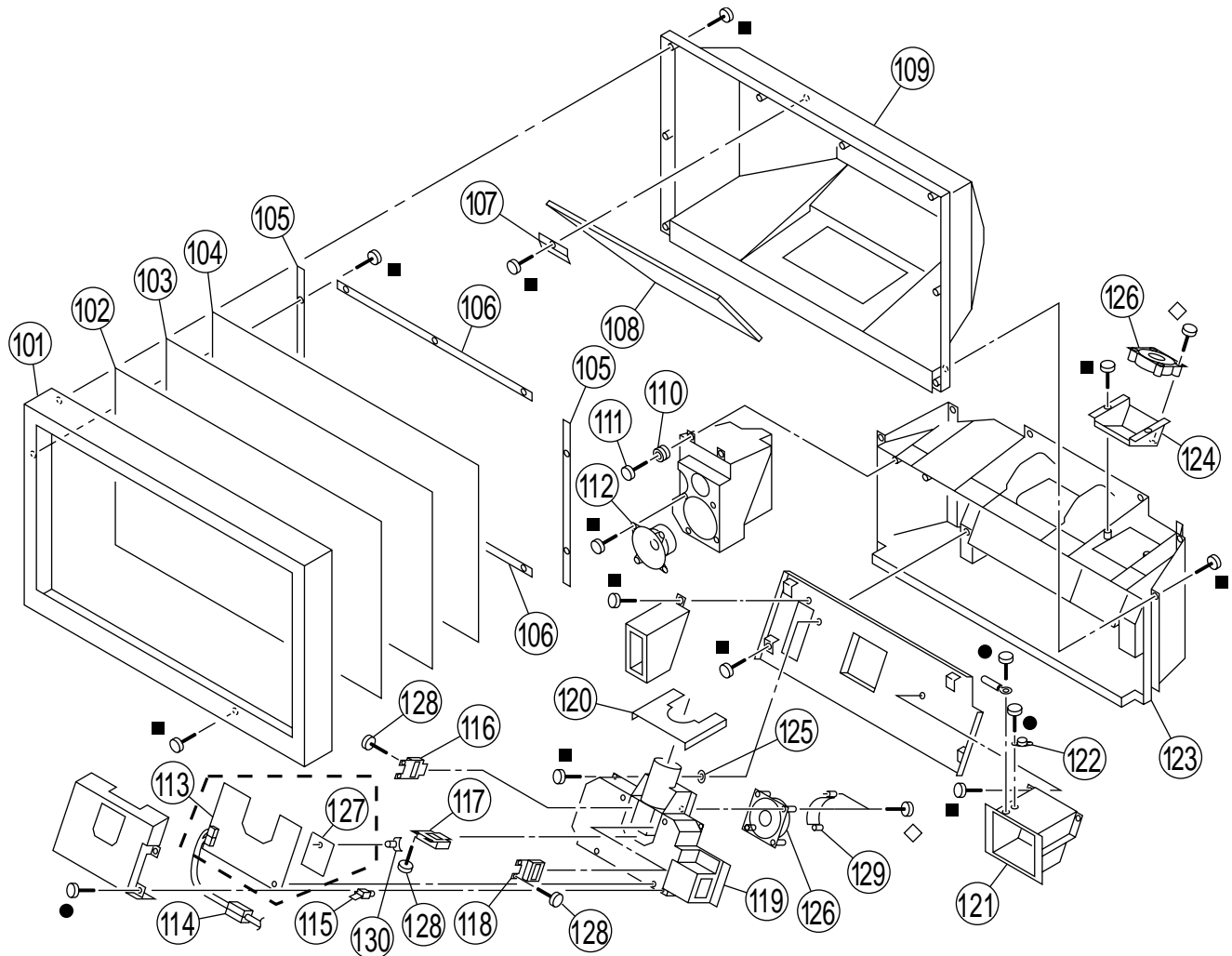
6-3. SCREEN MIRROR BLOCK AND OPTICS UNIT

[W7000A]

- 7-685-648-79 +BVTP 3X12
- 7-685-663-79 +BVTP 4X16
- ◇ 7-685-167-19 WASHER HEAD SCREW +P 4X35

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

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



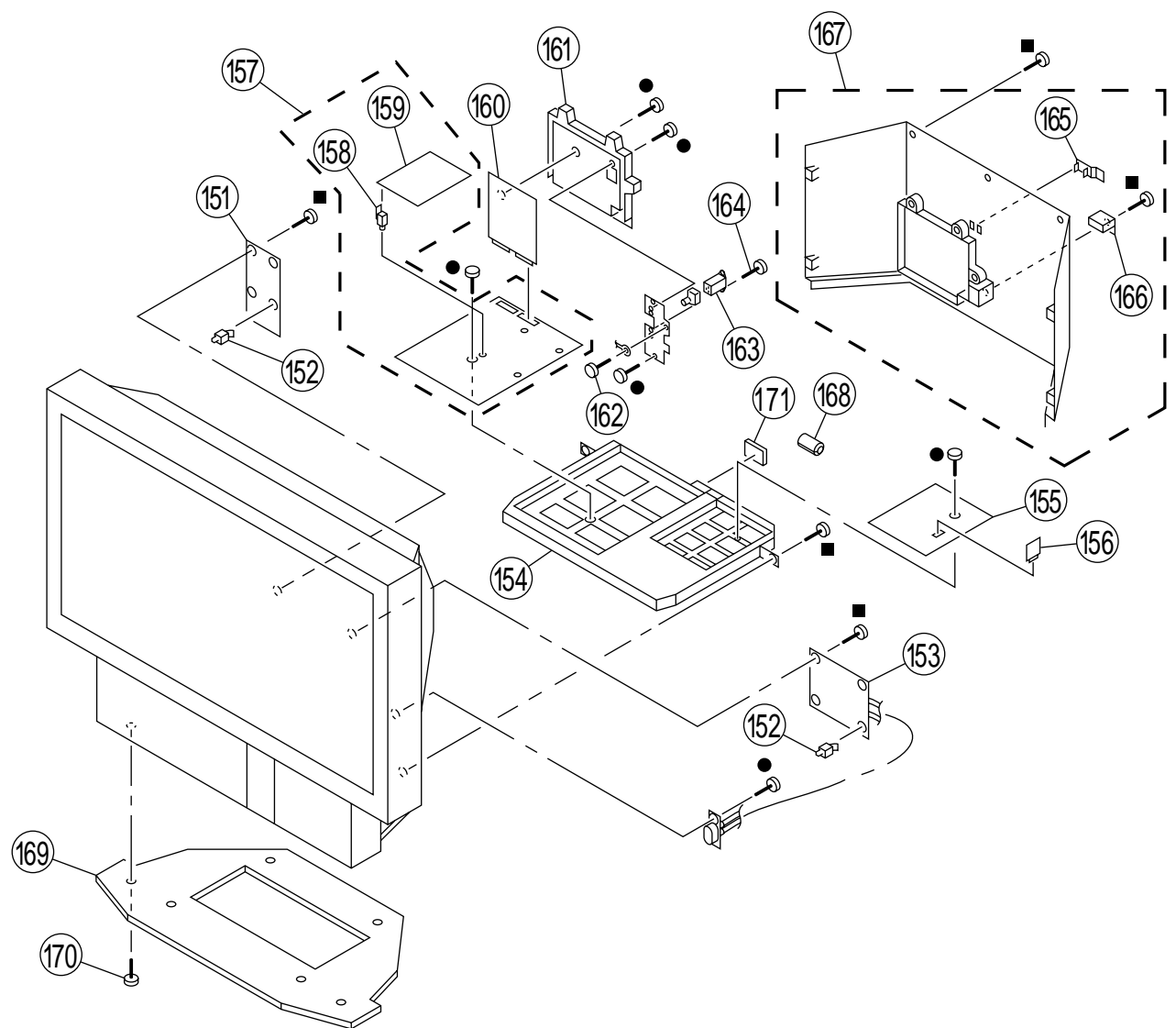
| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|----------------|--------------------------------|--------|---------|-------------------------|-------------------------------|--------|
| 101 | X-4035-101-1 | FRAME ASSY, SCREEN | | 116 | A-1501-135-A | PANEL BLOCK ASSY (B) | |
| 102 | 4-057-969-11 | SCREEN, CONTRAST | | 117 | A-1501-134-A | PANEL BLOCK ASSY (G) | |
| 103 | 4-203-837-01 | PLATE (L), DUFFUSION | | 118 | A-1501-133-A | PANEL BLOCK ASSY (R) | |
| 104 | 4-203-836-01 | PLATE (F), DUFFUSION | | 119 | Δ * 1-475-523-21 | OPTICAL UNIT | |
| 105 | 4-049-644-01 | HOLDER, SCREEN (S1) | | 120 | * 4-051-825-01 | SHIELD, OPTICAL | |
| 106 | * 4-033-782-02 | HOLDER (S), SCREEN | | 121 | * 4-051-343-01 | BASE, LAMP | |
| 107 | * 4-051-296-01 | HOLDER, MIRROR | | 122 | Δ 1-533-746-11 | THERMOSTAT | |
| 108 | 4-051-283-01 | MIRROR | | 123 | X-4035-094-1 | CABINET ASSY | |
| 109 | X-4035-102-1 | COVER ASSY, MIRROR | | 124 | * 4-051-316-02 | BRACKET, FAN | |
| 110 | 4-374-745-11 | CUSHION (A) | | 125 | 4-830-092-01 | WASHER, FIBER | |
| 111 | 4-384-096-01 | SCREW (4X16), TAPPING, +P | | 126 | 1-698-696-11 | FAN, DC | |
| 112 | 1-505-208-11 | SPEAKER (10CM) | | 127 | * A-1331-875-A | CU BOARD, COMPLETE | |
| 113 | * A-1335-110-A | C BOARD, COMPLETE | 127 | 128 | 4-047-747-21 | SCREW, SPACER HEXAGON | |
| 114 | 1-543-653-11 | CORE ASSY, BEAD(DIVISION TYPE) | | 129 | * 4-061-665-01 | PLATE, RECTIFIER | |
| 115 | * 3-703-141-00 | HOLDER, PRINTED CIRCUIT BOARD | | 130 | * 3-703-353-01 | HOLDER, PRINTED CIRCUIT BOARD | |

6-4. CHASSIS [W9000A]

- 7-685-648-79 +BVTP 3X12
- 7-685-663-79 +BVTP 4X16

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

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



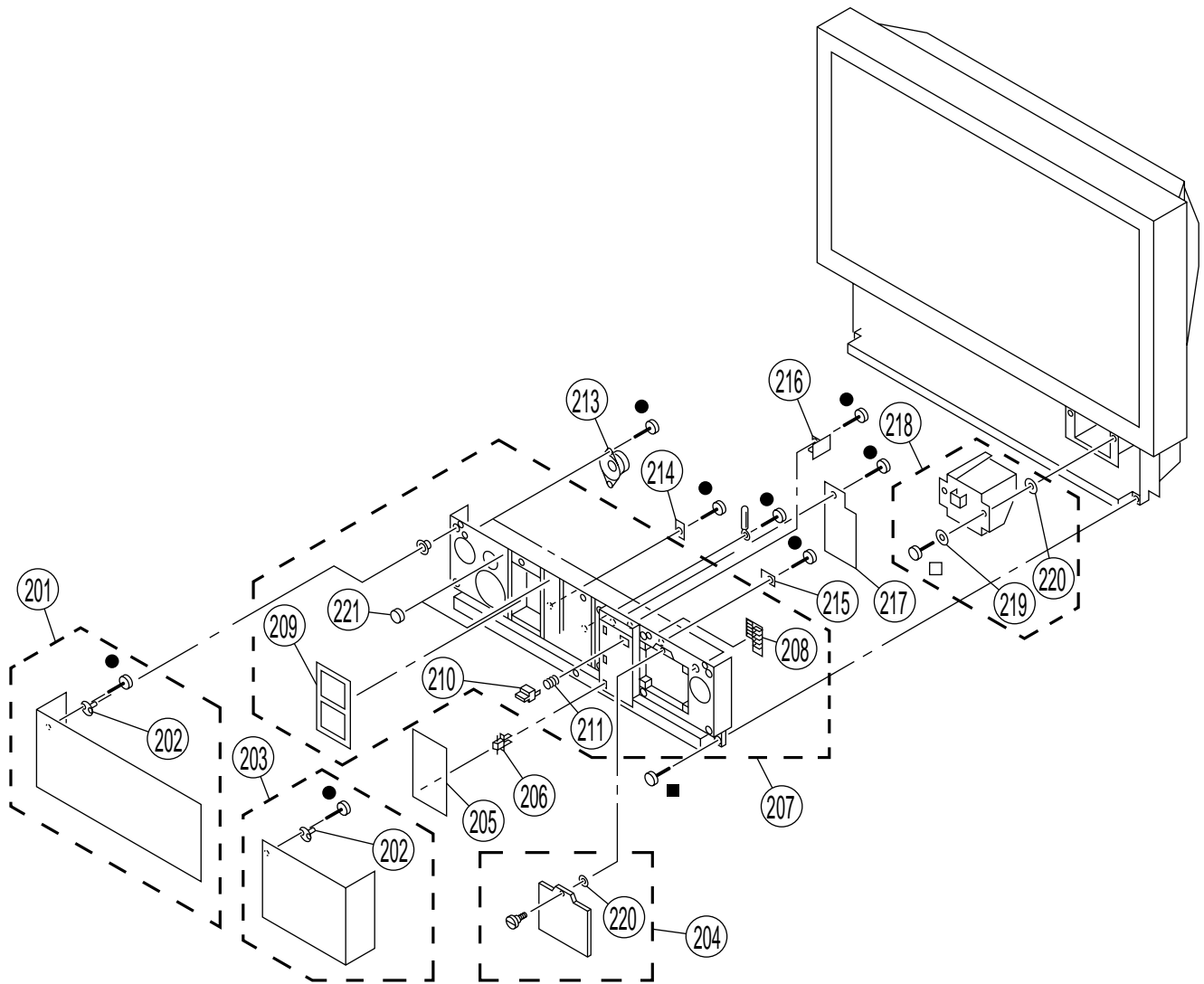
| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|-----------------------|-------------------------------|----------|---------|-----------------------|--------------------------------|----------|
| 151 | * A-1380-551-A | K BOARD, COMPLETE | | 162 | 4-389-025-01 | SCREW (M4) (EXT TOOTH WASHER) | |
| 152 | * 3-703-141-00 | HOLDER, PRINTED CIRCUIT BOARD | | 163 | Δ 1-251-662-11 | INLET, AC 3P(WITH NOISE FILTE) | |
| 153 | Δ 1-473-545-13 | POWER BLOCK | | 165 | 4-329-127-00 | CLAMP, CORD | |
| 154 | * 4-051-332-11 | BRACKET, MAIN BOARD | | 164 | 4-052-345-01 | SCREW, (3X8) (+K), TAPPING | |
| 155 | * A-1311-597-A | G BOARD, COMPLETE | | 166 | 4-033-719-01 | BUCKLE, A | |
| 156 | * A-1311-631-A | GA BOARD, COMPLETE | | 167 | X-4035-090-1 | COVER ASSY, REAR | 165, 166 |
| 157 | * A-1298-732-A | A BOARD, COMPLETE | 158, 159 | 168 | 1-543-653-21 | CORE ASSY, BEAD | |
| 158 | * 3-657-516-00 | SUPPORT, PC BOARD | | 169 | * 4-057-132-01 | PEDESTAL | |
| 159 | * A-1135-929-A | BB BOARD, COMPLETE | | 170 | 4-378-522-01 | SCREW, TAPPING, HEXAGON HEAD | |
| 160 | * A-1373-713-A | U BOARD, COMPLETE | | 171 | 4-062-358-02 | COVER, GROMMET | |
| 161 | * 4-056-402-21 | BRACKET, U | | | | | |

6-5. FRONT COVER [W9000A]

- 7-685-648-79 +BVTP 3X12
- 7-685-663-79 +BVTP 4X16
- 7-683-421-04 HEXAGON SOCKET BOLT 4X12

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

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



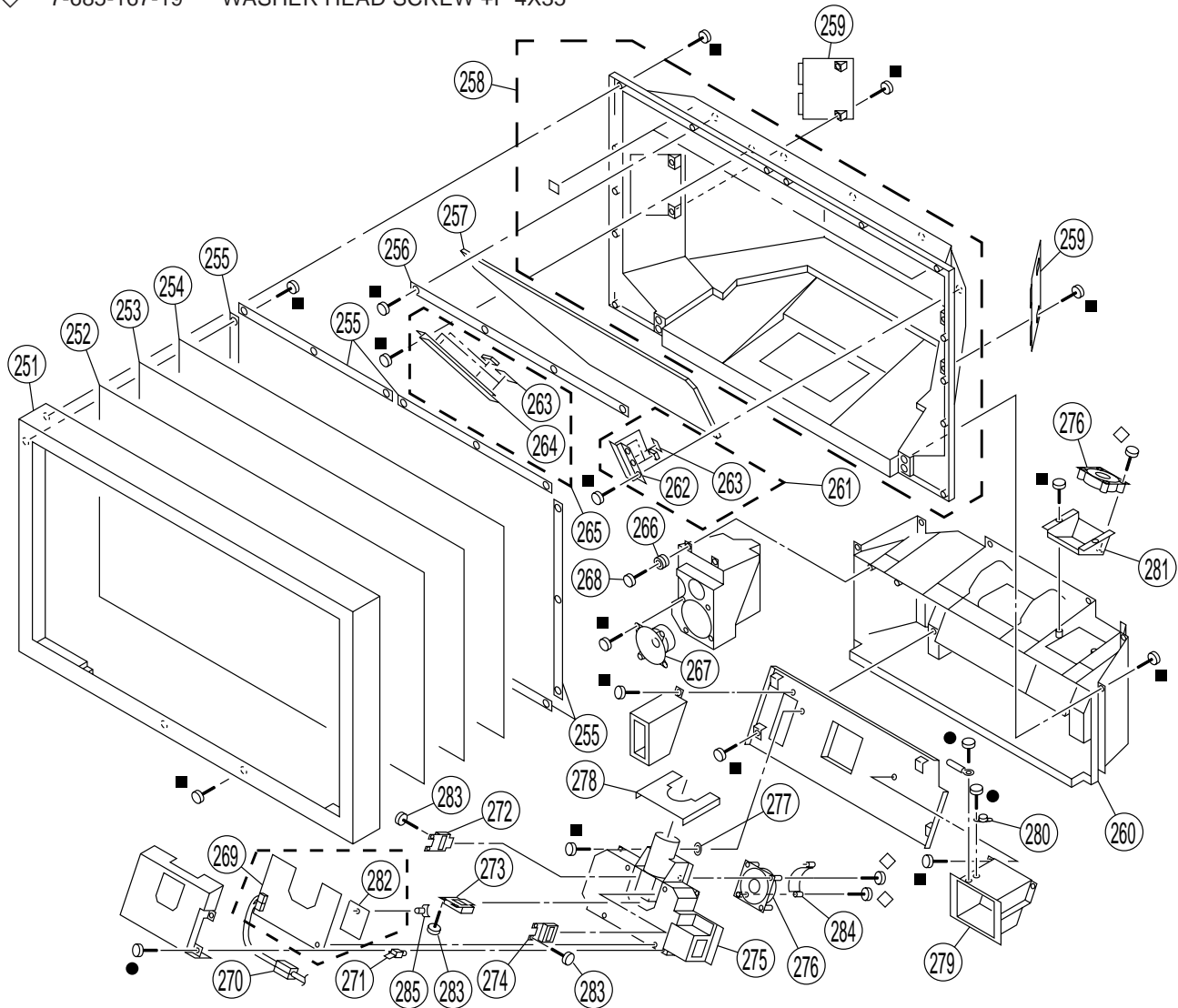
| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|-----------------------|---------|---------|-----------------------|---------------------|----------|
| 201 | X-4033-189-1 | PANEL (L) ASSY, FRONT | 202 | 211 | 4-820-917-01 | SPRING, COMPRESSION | |
| 202 | 4-054-709-01 | STRIKE | | 213 | 1-505-207-11 | SPEAKER (5.7CM) | |
| 203 | X-4033-188-1 | PANEL (R) ASSY, FRONT | 202 | 214 | * A-1390-908-A | TB BOARD, COMPLETE | |
| 204 | X-4035-092-1 | DOOR ASSY, LAMP | 220 | 215 | * A-1390-907-A | TA BOARD, COMPLETE | |
| 205 | X-4036-145-1 | DOOR ASSY | | 216 | * A-1372-565-A | HB BOARD, COMPLETE | |
| 206 | 3-703-035-11 | SHAFT, LID | | 217 | * A-1372-564-A | HA BOARD, COMPLETE | |
| 207 | X-4035-093-1 | COVER ASSY, FRONT | 208-211 | 218 | Δ A-1501-247-A | LAMP BLOCK ASSY | 219, 220 |
| 208 | 4-051-286-31 | BUTTON, MULTI | | 219 | 3-901-261-01 | WASHER | |
| 209 | X-4034-041-1 | FILTER ASSY | | 220 | * 3-650-537-00 | WASHER | |
| 210 | 4-051-285-01 | BUTTON, POWER | | 221 | 4-314-871-00 | CUSHION | |

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

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

6-6. SCREEN MIRROR BLOCK AND OPTICS UNIT [W9000A]

- 7-685-648-79 +BVTP 3X12
- 7-685-663-79 +BVTP 4X16
- ◇ 7-685-167-19 WASHER HEAD SCREW +P 4X35



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|---------------|---------------------------|----------|---------|---------------------------|--------------------------------|--------|
| 251 | X-4035-095-1 | FRAME ASSY, SCREEN | | 269 | *A-1335-110-A | C BOARD, COMPLETE | 282 |
| 252 | 4-056-485-11 | SCREEN, CONTRAST | | 270 | 1-543-653-11 | CORE ASSY, BEAD(DIVISION TYPE) | |
| 253 | 4-067-396-11 | PLATE (L), DUFFUSION | | 271 | *3-703-141-00 | HOLDER, PRINTED CIRCUIT BOARD | |
| 254 | 4-067-397-11 | PLATE (F), DUFFUSION | | 272 | A-1501-135-A | PANEL BLOCK ASSY (B) | |
| 255 | *4-055-161-01 | HOLDER (50), SCREEN | | 273 | A-1501-134-A | PANEL BLOCK ASSY (G) | |
| 256 | *4-037-351-01 | HOLDER, MIRROR | | 274 | A-1501-133-A | PANEL BLOCK ASSY (R) | |
| 257 | 4-055-162-11 | MIRROR (50) | | 275 | \triangle *1-475-523-11 | OPTICAL UNIT | |
| 258 | X-4035-096-1 | COVER ASSY, MIRROR | | 276 | 1-698-696-21 | FAN, DC | |
| 259 | 4-055-165-21 | COVER (50), SERVICE | | 277 | 4-830-092-01 | WASHER, FIBER | |
| 260 | X-4035-094-1 | CABINET ASSY | | 278 | *4-051-825-01 | SHIELD, OPTICAL | |
| 261 | *X-4033-947-1 | HOLDER (R) ASSY, MIRROR | 262, 263 | 279 | *4-051-343-01 | BASE, LAMP | |
| 262 | 4-055-164-01 | HOLDER (R), MIRROR | | 280 | \triangle 1-533-746-11 | THERMOSTAT | |
| 263 | 4-864-324-11 | SPACER | | 281 | *4-051-316-02 | BRACKET, MAIN | |
| 264 | 4-055-163-01 | HOLDER (L), MIRROR | | 282 | *A-1331-875-A | CU BOARD, COMPLETE | |
| 265 | *X-4033-946-1 | HOLDER (L) ASSY, MIRROR | 263, 264 | 283 | 4-047-747-21 | SCREW, SPACER HEXAGON | |
| 266 | 4-374-745-11 | CUSHION (A) | | 284 | *4-061-665-01 | PLATE, RECTIFIER | |
| 267 | 1-505-208-11 | SPEAKER (10CM) | | 285 | *3-703-353-01 | HOLDER, PRINTED CIRCUIT BOARD | |
| 268 | 4-384-096-01 | SCREW (4X16), TAPPING, +P | | | | | |

SECTION 7 ELECTRICAL PARTS LIST

KL-W7000A/W9000A
RM-Y980



NOTE:

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

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

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

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All resistors are in ohms
- F : nonflammable
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS
MF: μ F
- COILS
UH: μ H

| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|--------------|----------------------|------------|---------|--------------|--------------------|----------|
| * A-1135-929-ABB BOARD, COMPLETE ***** | | | | C3046 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V |
| <CAPACITOR> | | | | C3047 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V |
| C3001 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V | C3048 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V |
| C3002 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V | C3049 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V |
| C3003 | 1-163-809-11 | CERAMIC CHIP 0.047MF | 10% | C3050 | 1-127-532-11 | ELECT 47MF | 20% 6.3V |
| C3004 | 1-107-823-11 | CERAMIC CHIP 0.47MF | 10% | C3051 | 1-104-664-11 | ELECT 47MF | 20% 16V |
| C3005 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V | C3052 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V |
| C3006 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V | C3053 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V |
| C3007 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V | C3054 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V |
| C3008 | 1-163-809-11 | CERAMIC CHIP 0.047MF | 10% | C3055 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V |
| C3009 | 1-107-823-11 | CERAMIC CHIP 0.47MF | 10% | C3056 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V |
| C3010 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V | C3057 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V |
| C3011 | 1-163-222-11 | CERAMIC CHIP 5PF | 0.25PF 50V | C3058 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V |
| C3012 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V | C3060 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V |
| C3013 | 1-163-222-11 | CERAMIC CHIP 5PF | 0.25PF 50V | C3061 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V |
| C3014 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V | C3062 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V |
| C3016 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V | C3071 | 1-126-935-11 | ELECT 470MF | 20% 16V |
| C3017 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V | C3072 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V |
| C3019 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V | C3202 | 1-163-239-11 | CERAMIC CHIP 33PF | 5% 50V |
| C3020 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V | C3204 | 1-126-935-11 | ELECT 470MF | 20% 16V |
| C3021 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V | C3205 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V |
| C3022 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V | C3213 | 1-126-935-11 | ELECT 470MF | 20% 16V |
| C3023 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V | C3214 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V |
| C3024 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V | C3215 | 1-104-664-11 | ELECT 47MF | 20% 16V |
| C3025 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V | C3216 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V |
| C3026 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V | C3221 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V |
| C3027 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V | C3222 | 1-126-935-11 | ELECT 470MF | 20% 16V |
| C3028 | 1-109-982-11 | CERAMIC CHIP 1MF | 10% 10V | C3227 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V |
| C3029 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V | C3228 | 1-104-664-11 | ELECT 47MF | 20% 16V |
| C3030 | 1-109-982-11 | CERAMIC CHIP 1MF | 10% 10V | C3229 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V |
| C3031 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V | C3230 | 1-104-664-11 | ELECT 47MF | 20% 16V |
| C3032 | 1-109-982-11 | CERAMIC CHIP 1MF | 10% 10V | C3232 | 1-104-664-11 | ELECT 47MF | 20% 16V |
| C3035 | 1-126-964-11 | ELECT 10MF | 20% 50V | C3233 | 1-104-664-11 | ELECT 47MF | 20% 16V |
| C3036 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V | C3234 | 1-104-664-11 | ELECT 47MF | 20% 16V |
| C3037 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V | C3235 | 1-104-664-11 | ELECT 47MF | 20% 16V |
| C3038 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V | C3236 | 1-104-664-11 | ELECT 47MF | 20% 16V |
| C3039 | 1-104-664-11 | ELECT 47MF | 20% 16V | C3237 | 1-104-664-11 | ELECT 47MF | 20% 16V |
| C3041 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V | C3238 | 1-104-664-11 | ELECT 47MF | 20% 16V |
| C3042 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V | C3240 | 1-107-714-11 | ELECT 10MF | 20% 16V |
| C3043 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V | C3241 | 1-107-714-11 | ELECT 10MF | 20% 16V |
| C3044 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V | C3242 | 1-107-714-11 | ELECT 10MF | 20% 16V |
| C3045 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V | C3243 | 1-107-714-11 | ELECT 10MF | 20% 16V |
| | | | | C3244 | 1-163-113-00 | CERAMIC CHIP 68PF | 5% 50V |
| | | | | C3251 | 1-104-664-11 | ELECT 47MF | 20% 16V |



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|----------------|--------------|--------------------|---------|--------------|--------------|----------------------|--------|
| C3252 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V | <IC> | | | |
| C3253 | 1-163-121-00 | CERAMIC CHIP 150PF | 5% 50V | IC3001 | 8-759-295-09 | IC TLC2932IPW | |
| C3254 | 1-163-243-11 | CERAMIC CHIP 47PF | 5% 50V | IC3002 | 8-759-295-09 | IC TLC2932IPW | |
| C3255 | 1-163-133-00 | CERAMIC CHIP 470PF | 5% 50V | IC3003 | 8-752-390-58 | IC CXD2072AQ | |
| C3303 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V | IC3004 | 8-759-478-46 | IC MSM548332-25TS-K | |
| C3306 | 1-104-664-11 | ELECT 47MF | 20% 16V | IC3005 | 8-759-478-46 | IC MSM548332-25TS-K | |
| C3310 | 1-126-964-11 | ELECT 10MF | 20% 50V | IC3006 | 8-759-478-92 | IC TC7SET04FU(TE85R) | |
| C3311 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V | IC3007 | 8-759-485-79 | IC TC7SET08FU(TE85L) | |
| C3313 | 1-104-664-11 | ELECT 47MF | 20% 16V | IC3008 | 8-759-485-79 | IC TC7SET08FU(TE85L) | |
| C3314 | 1-126-964-11 | ELECT 10MF | 20% 50V | IC3009 | 8-759-271-88 | IC TC7SHU04FU | |
| C3316 | 1-104-664-11 | ELECT 47MF | 20% 16V | IC3010 | 8-759-058-64 | IC TC7S32FU(TE85R) | |
| C3318 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V | IC3011 | 8-759-085-51 | IC NJM2284M | |
| C3321 | 1-126-964-11 | ELECT 10MF | 20% 50V | IC3201 | 8-759-011-65 | IC MC74HC4053F | |
| C3322 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V | IC3301 | 8-752-388-98 | IC CXD2303AQ | |
| C3324 | 1-104-664-11 | ELECT 47MF | 20% 16V | IC3303 | 8-759-431-14 | IC PQ3TZ53U | |
| <CONNECTOR> | | | | <COIL> | | | |
| CN3001*1 | 564-522-11 | PLUG, CONNECTOR | 7P | L3001 | 1-412-029-11 | INDUCTOR CHIP | 10UH |
| CN3002*1 | 564-525-11 | PLUG, CONNECTOR | 10P | L3002 | 1-408-603-31 | INDUCTOR | 10UH |
| CN3003*1 | 564-526-31 | PLUG, CONNECTOR | 11P | L3003 | 1-412-029-11 | INDUCTOR CHIP | 10UH |
| CN3004*1 | 564-518-11 | PLUG, CONNECTOR | 3P | L3004 | 1-412-029-11 | INDUCTOR CHIP | 10UH |
| <DIODE> | | | | L3005 | 1-408-603-31 | INDUCTOR | 10UH |
| D3201 | 8-719-404-49 | DIODE MA111 | | L3006 | 1-408-603-31 | INDUCTOR | 10UH |
| D3202 | 8-719-404-49 | DIODE MA111 | | L3007 | 1-412-029-11 | INDUCTOR CHIP | 10UH |
| <FERRITE BEAD> | | | | L3008 | 1-412-029-11 | INDUCTOR CHIP | 10UH |
| FB3201 | 1-216-295-91 | SHORT | 0 | L3009 | 1-412-029-11 | INDUCTOR CHIP | 10UH |
| FB3202 | 1-216-295-91 | SHORT | 0 | L3010 | 1-412-029-11 | INDUCTOR CHIP | 10UH |
| FB3203 | 1-216-295-91 | SHORT | 0 | L3011 | 1-412-029-11 | INDUCTOR CHIP | 10UH |
| FB3205 | 1-216-295-91 | SHORT | 0 | L3012 | 1-412-029-11 | INDUCTOR CHIP | 10UH |
| FB3206 | 1-216-295-91 | SHORT | 0 | L3202 | 1-408-603-31 | INDUCTOR | 10UH |
| FB3207 | 1-216-295-91 | SHORT | 0 | L3204 | 1-412-029-11 | INDUCTOR CHIP | 10UH |
| FB3208 | 1-216-295-91 | SHORT | 0 | L3206 | 1-412-029-11 | INDUCTOR CHIP | 10UH |
| FB3209 | 1-216-295-91 | SHORT | 0 | L3207 | 1-412-029-11 | INDUCTOR CHIP | 10UH |
| FB3210 | 1-216-295-91 | SHORT | 0 | L3208 | 1-408-603-31 | INDUCTOR | 10UH |
| FB3211 | 1-216-295-91 | SHORT | 0 | L3210 | 1-412-029-11 | INDUCTOR CHIP | 10UH |
| FB3212 | 1-216-295-91 | SHORT | 0 | L3303 | 1-412-029-11 | INDUCTOR CHIP | 10UH |
| FB32121 | 1-216-295-91 | SHORT | 0 | L3304 | 1-408-603-31 | INDUCTOR | 10UH |
| <FILTER> | | | | L3305 | 1-412-029-11 | INDUCTOR CHIP | 10UH |
| FL3204 | 1-233-446-11 | FILTER, LOW PASS | | <TRANSISTOR> | | | |
| FL3205 | 1-233-438-21 | FILTER, LOW PASS | | Q3018 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| FL3206 | 1-233-438-21 | FILTER, LOW PASS | | Q3019 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| FL3210 | 1-233-736-21 | FILTER, EMI | | Q3201 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| FL3212 | 1-234-016-21 | FILTER, EMI | | Q3202 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| FL32121 | 1-234-016-21 | FILTER, EMI | | Q3203 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| FL3215 | 1-233-446-11 | FILTER, LOW PASS | | Q3204 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| FL3216 | 1-234-021-11 | FILTER, LOW PASS | | Q3205 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| FL3217 | 1-234-021-11 | FILTER, LOW PASS | | Q3206 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| FL3218 | 1-234-021-11 | FILTER, LOW PASS | | Q3207 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| FL3219 | 1-234-021-11 | FILTER, LOW PASS | | Q3208 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| FL3222 | 1-234-016-21 | FILTER, EMI | | Q3209 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| | | | | Q3210 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| | | | | Q3211 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|----------------------|-----------------|---------|--------------|-------------|-----------------|
| Q3212 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | R3219 | 1-216-009-00 | RES,CHIP | 22 5% 1/10W |
| Q3213 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | R3220 | 1-216-009-00 | RES,CHIP | 22 5% 1/10W |
| Q3214 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | R3221 | 1-216-009-00 | RES,CHIP | 22 5% 1/10W |
| Q3215 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | R3225 | 1-216-033-00 | RES,CHIP | 220 5% 1/10W |
| Q3216 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | R3226 | 1-216-033-00 | RES,CHIP | 220 5% 1/10W |
| Q3305 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | R3227 | 1-216-033-00 | RES,CHIP | 220 5% 1/10W |
| Q3306 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | R3228 | 1-216-029-00 | RES,CHIP | 150 5% 1/10W |
| Q3307 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | R3229 | 1-216-029-00 | RES,CHIP | 150 5% 1/10W |
| Q3308 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | R3230 | 1-216-029-00 | RES,CHIP | 150 5% 1/10W |
| | | | | R3231 | 1-216-647-11 | METAL CHIP | 680 0.50% 1/10W |
| | | | | R3232 | 1-216-647-11 | METAL CHIP | 680 0.50% 1/10W |
| | | <RESISTOR> | | R3233 | 1-216-651-11 | METAL CHIP | 1K 0.50% 1/10W |
| R3001 | 1-216-117-00 | RES,CHIP | 680K 5% 1/10W | R3234 | 1-216-649-11 | METAL CHIP | 820 0.50% 1/10W |
| R3002 | 1-216-061-00 | RES,CHIP | 3.3K 5% 1/10W | R3235 | 1-216-649-11 | METAL CHIP | 820 0.50% 1/10W |
| R3003 | 1-216-053-00 | RES,CHIP | 1.5K 5% 1/10W | R3236 | 1-216-643-11 | METAL CHIP | 470 0.50% 1/10W |
| R3004 | 1-216-041-00 | RES,CHIP | 470 5% 1/10W | R3237 | 1-216-041-00 | RES,CHIP | 470 5% 1/10W |
| R3005 | 1-216-295-91 | SHORT | 0 | R3238 | 1-216-041-00 | RES,CHIP | 470 5% 1/10W |
| R3007 | 1-216-117-00 | RES,CHIP | 680K 5% 1/10W | R3239 | 1-216-041-00 | RES,CHIP | 470 5% 1/10W |
| R3008 | 1-216-061-00 | RES,CHIP | 3.3K 5% 1/10W | R3240 | 1-216-295-91 | SHORT | 0 |
| R3009 | 1-216-051-00 | RES,CHIP | 1.2K 5% 1/10W | R3241 | 1-216-295-91 | SHORT | 0 |
| R3010 | 1-216-041-00 | RES,CHIP | 470 5% 1/10W | R3242 | 1-216-295-91 | SHORT | 0 |
| R3011 | 1-216-295-91 | SHORT | 0 | R3252 | 1-216-647-11 | METAL CHIP | 680 0.50% 1/10W |
| R3013 | 1-216-013-00 | RES,CHIP | 33 5% 1/10W | R3253 | 1-216-029-00 | RES,CHIP | 150 5% 1/10W |
| R3014 | 1-216-121-91 | RES,CHIP | 1M 5% 1/10W | R3254 | 1-216-647-11 | METAL CHIP | 680 0.50% 1/10W |
| R3015 | 1-216-295-91 | SHORT | 0 | R3263 | 1-216-295-91 | SHORT | 0 |
| R3016 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W | R3264 | 1-216-295-91 | SHORT | 0 |
| R3017 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W | R3265 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W |
| R3018 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | R3266 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W |
| R3019 | 1-216-041-00 | RES,CHIP | 470 5% 1/10W | R3267 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W |
| R3020 | 1-216-295-91 | SHORT | 0 | R3269 | 1-216-029-00 | RES,CHIP | 150 5% 1/10W |
| R3021 | 1-216-041-00 | RES,CHIP | 470 5% 1/10W | R3271 | 1-216-295-91 | SHORT | 0 |
| R3022 | 1-216-295-91 | SHORT | 0 | R3272 | 1-216-029-00 | RES,CHIP | 150 5% 1/10W |
| R3023 | 1-216-295-91 | SHORT | 0 | R3273 | 1-216-029-00 | RES,CHIP | 150 5% 1/10W |
| R3029 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W | R3274 | 1-216-295-91 | SHORT | 0 |
| R3030 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W | R3275 | 1-216-295-91 | SHORT | 0 |
| R3032 | 1-216-633-11 | METAL CHIP | 180 0.50% 1/10W | R3276 | 1-216-029-00 | RES,CHIP | 150 5% 1/10W |
| R3037 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W | R3277 | 1-216-029-00 | RES,CHIP | 150 5% 1/10W |
| R3038 | 1-216-633-11 | METAL CHIP | 180 0.50% 1/10W | R3278 | 1-216-295-91 | SHORT | 0 |
| R3044 | 1-216-651-11 | METAL CHIP | 1K 0.50% 1/10W | R3280 | 1-216-033-00 | RES,CHIP | 220 5% 1/10W |
| R3045 | 1-216-651-11 | METAL CHIP | 1K 0.50% 1/10W | R3281 | 1-216-033-00 | RES,CHIP | 220 5% 1/10W |
| R3047 | 1-216-121-91 | RES,CHIP | 1M 5% 1/10W | R3282 | 1-216-009-00 | RES,CHIP | 22 5% 1/10W |
| R3048 | 1-216-651-11 | METAL CHIP | 1K 0.50% 1/10W | R3283 | 1-216-009-00 | RES,CHIP | 22 5% 1/10W |
| R3049 | 1-216-295-91 | SHORT | 0 | R3284 | 1-216-041-00 | RES,CHIP | 470 5% 1/10W |
| R3051 | 1-216-633-11 | METAL CHIP | 180 0.50% 1/10W | R3285 | 1-216-041-00 | RES,CHIP | 470 5% 1/10W |
| R3201 | 1-216-295-91 | SHORT | 0 | R3286 | 1-216-295-91 | SHORT | 0 |
| R3202 | 1-216-295-91 | SHORT | 0 | R3287 | 1-216-295-91 | SHORT | 0 |
| R3203 | 1-216-295-91 | SHORT | 0 | R3288 | 1-216-649-11 | METAL CHIP | 820 0.50% 1/10W |
| R3204 | 1-216-033-00 | RES,CHIP | 220 5% 1/10W | R3289 | 1-216-649-11 | METAL CHIP | 820 0.50% 1/10W |
| R3205 | 1-216-033-00 | RES,CHIP | 220 5% 1/10W | R3290 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W |
| R3206 | 1-216-033-00 | RES,CHIP | 220 5% 1/10W | R3291 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W |
| R3213 | 1-216-053-00 | RES,CHIP | 1.5K 5% 1/10W | R3292 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W |
| R3214 | 1-216-053-00 | RES,CHIP | 1.5K 5% 1/10W | R3293 | 1-216-041-00 | RES,CHIP | 470 5% 1/10W |
| R3215 | 1-216-053-00 | RES,CHIP | 1.5K 5% 1/10W | R3294 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W |
| R3216 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | R3295 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W |
| R3217 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | R3296 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W |
| R3218 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | R3297 | 1-216-295-91 | SHORT | 0 |



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|-------------|-----------------|---------|---------------------------|---|--------|
| R3298 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W | | | * A-1298-732-AA BOARD, COMPLETE | |
| R3299 | 1-216-295-91 | SHORT | 0 | | | ***** | |
| R3301 | 1-216-295-91 | SHORT | 0 | | | | |
| R3302 | 1-216-295-91 | SHORT | 0 | | | * 3-657-516-11 SUPPORT, PC BOARD | |
| R3305 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W | | | 4-382-854-01 SCREW (M3X8), P, SW (+) (IC1007) | |
| R3306 | 1-216-013-00 | RES,CHIP | 33 5% 1/10W | | | <CAPACITOR> | |
| R3307 | 1-216-295-91 | SHORT | 0 | | | | |
| R3308 | 1-216-013-00 | RES,CHIP | 33 5% 1/10W | C1001 | 1-104-664-11 ELECT | 47MF 20% 25V | |
| R3309 | 1-216-607-11 | METAL CHIP | 15 0.50% 1/10W | C1004 | 1-104-664-11 ELECT | 47MF 20% 16V | |
| R3311 | 1-216-607-11 | METAL CHIP | 15 0.50% 1/10W | C1007 | 1-163-038-91 CERAMIC CHIP | 0.1MF 25V | |
| R3316 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | C1013 | 1-104-664-11 ELECT | 47MF 20% 25V | |
| R3317 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | C1014 | 1-104-664-11 ELECT | 47MF 20% 25V | |
| R3318 | 1-216-625-11 | METAL CHIP | 82 0.50% 1/10W | C1015 | 1-163-038-91 CERAMIC CHIP | 0.1MF 25V | |
| R3319 | 1-216-627-11 | METAL CHIP | 100 0.50% 1/10W | C1016 | 1-163-038-91 CERAMIC CHIP | 0.1MF 25V | |
| R3321 | 1-216-627-11 | METAL CHIP | 100 0.50% 1/10W | C1017 | 1-163-038-91 CERAMIC CHIP | 0.1MF 25V | |
| R3322 | 1-216-639-11 | METAL CHIP | 330 0.50% 1/10W | C1018 | 1-163-038-91 CERAMIC CHIP | 0.1MF 25V | |
| R3325 | 1-216-295-91 | SHORT | 0 | C1019 | 1-163-038-91 CERAMIC CHIP | 0.1MF 25V | |
| R3332 | 1-216-013-00 | RES,CHIP | 33 5% 1/10W | C1020 | 1-163-038-91 CERAMIC CHIP | 0.1MF 25V | |
| R3334 | 1-216-295-91 | SHORT | 0 | C1021 | 1-163-038-91 CERAMIC CHIP | 0.1MF 25V | |
| R3351 | 1-216-607-11 | METAL CHIP | 15 0.50% 1/10W | C1022 | 1-163-038-91 CERAMIC CHIP | 0.1MF 25V | |
| R3352 | 1-216-607-11 | METAL CHIP | 15 0.50% 1/10W | C1102 | 1-163-251-11 CERAMIC CHIP | 100PF 5% 50V | |
| R3360 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | C1103 | 1-163-251-11 CERAMIC CHIP | 100PF 5% 50V | |
| R3361 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | C1104 | 1-163-251-11 CERAMIC CHIP | 100PF 5% 50V | |
| R3362 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | C1107 | 1-163-251-11 CERAMIC CHIP | 100PF 5% 50V | |
| R3363 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | C1108 | 1-126-925-11 ELECT | 470MF 20% 10V | |
| R3364 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | C1110 | 1-163-021-91 CERAMIC CHIP | 0.01MF 10% 50V | |
| R3365 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | C1113 | 1-163-021-91 CERAMIC CHIP | 0.01MF 10% 50V | |
| R3366 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | C1114 | 1-163-237-11 CERAMIC CHIP | 27PF 5% 50V | |
| R3367 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | C1117 | 1-163-237-11 CERAMIC CHIP | 27PF 5% 50V | |
| R3368 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | C1120 | 1-107-823-11 CERAMIC CHIP | 0.47MF 10% 16V | |
| R3369 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | C1121 | 1-163-251-11 CERAMIC CHIP | 100PF 5% 50V | |
| R3370 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | C1126 | 1-107-909-11 ELECT | 47MF 20% 10V | |
| R3371 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | C1127 | 1-163-021-91 CERAMIC CHIP | 0.01MF 10% 50V | |
| R3372 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | C1128 | 1-163-251-11 CERAMIC CHIP | 100PF 5% 50V | |
| R3373 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | C1129 | 1-163-251-11 CERAMIC CHIP | 100PF 5% 50V | |
| R3374 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | C1130 | 1-164-004-11 CERAMIC CHIP | 0.1MF 10% 25V | |
| R3375 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | C1131 | 1-163-251-11 CERAMIC CHIP | 100PF 5% 50V | |
| R3376 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | C1132 | 1-164-004-11 CERAMIC CHIP | 0.1MF 10% 25V | |
| R3377 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | C1133 | 1-163-251-11 CERAMIC CHIP | 100PF 5% 50V | |
| R3378 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | C1134 | 1-163-251-11 CERAMIC CHIP | 100PF 5% 50V | |
| R3379 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | C1135 | 1-163-251-11 CERAMIC CHIP | 100PF 5% 50V | |
| R3380 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | C1136 | 1-163-251-11 CERAMIC CHIP | 100PF 5% 50V | |
| R3381 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | C1137 | 1-163-251-11 CERAMIC CHIP | 100PF 5% 50V | |
| R3382 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | C1140 | 1-163-259-91 CERAMIC CHIP | 220PF 5% 50V | |
| R3383 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | C1141 | 1-104-760-11 CERAMIC CHIP | 0.047MF 10% 50V | |
| | | | | C1142 | 1-126-960-11 ELECT | 1MF 20% 50V | |
| | | | | C1144 | 1-163-021-91 CERAMIC CHIP | 0.01MF 10% 50V | |
| | | | | C1145 | 1-163-259-91 CERAMIC CHIP | 220PF 5% 50V | |
| | | | | C1146 | 1-126-960-11 ELECT | 1MF 20% 50V | |
| | | | | C1301 | 1-163-251-11 CERAMIC CHIP | 100PF 5% 50V | |
| | | | | C1303 | 1-126-933-11 ELECT | 100MF 20% 16V | |
| | | | | C1304 | 1-107-909-11 ELECT | 47MF 20% 16V | |
| | | | | C1305 | 1-107-909-11 ELECT | 47MF 20% 16V | |
| | | | | C1401 | 1-104-664-11 ELECT | 47MF 20% 16V | |
| | | | | C1402 | 1-163-038-91 CERAMIC CHIP | 0.1MF 25V | |
| | | | | C1403 | 1-163-038-91 CERAMIC CHIP | 0.1MF 25V | |
| | | | | C1404 | 1-126-767-11 ELECT | 1000MF 20% 16V | |

<CRYSTAL>

X3001 1-767-262-11 VIBRATOR, CRYSTAL



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|-----------------------|----------------|---------|--------------|------------------------------|--------|
| C1409 | 1-126-961-11 | ELECT | 2.2MF 20% 50V | C2020 | 1-163-021-91 | CERAMIC CHIP 0.01MF 10% 50V | |
| C1410 | 1-126-961-11 | ELECT | 2.2MF 20% 50V | C2021 | 1-164-004-11 | CERAMIC CHIP 0.1MF 10% 25V | |
| C1411 | 1-126-960-11 | ELECT | 1MF 20% 50V | C2022 | 1-107-902-11 | ELECT 1MF 20% 50V | |
| C1412 | 1-126-960-11 | ELECT | 1MF 20% 50V | C2023 | 1-107-902-11 | ELECT 1MF 20% 50V | |
| C1413 | 1-126-964-11 | ELECT | 10MF 20% 50V | C2024 | 1-164-004-11 | CERAMIC CHIP 0.1MF 10% 25V | |
| C1414 | 1-126-964-11 | ELECT | 10MF 20% 50V | C2025 | 1-107-909-11 | ELECT 47MF 20% 10V | |
| C1415 | 1-126-964-11 | ELECT | 10MF 20% 50V | C2026 | 1-164-004-11 | CERAMIC CHIP 0.1MF 10% 25V | |
| C1416 | 1-126-963-11 | ELECT | 4.7MF 20% 50V | C2027 | 1-163-227-11 | CERAMIC CHIP 10PF 0.5PF 50V | |
| C1417 | 1-126-964-11 | ELECT | 10MF 20% 50V | C2028 | 1-163-009-11 | CERAMIC CHIP 0.001MF 10% 50V | |
| C1418 | 1-163-017-00 | CERAMIC CHIP 0.0047MF | 10% 50V | C2029 | 1-107-909-11 | ELECT 47MF 20% 10V | |
| C1419 | 1-126-964-11 | ELECT | 10MF 20% 50V | C2030 | 1-163-021-91 | CERAMIC CHIP 0.01MF 10% 50V | |
| C1434 | 1-163-009-11 | CERAMIC CHIP 0.001MF | 10% 50V | C2031 | 1-164-004-11 | CERAMIC CHIP 0.1MF 10% 25V | |
| C1435 | 1-130-489-00 | FILM | 0.033MF 5% 50V | C2032 | 1-163-137-00 | CERAMIC CHIP 680PF 5% 50V | |
| C1436 | 1-130-495-00 | FILM | 0.1MF 5% 50V | C2033 | 1-164-004-11 | CERAMIC CHIP 0.1MF 10% 25V | |
| C1437 | 1-130-489-00 | FILM | 0.033MF 5% 50V | C2034 | 1-163-021-91 | CERAMIC CHIP 0.01MF 10% 50V | |
| C1438 | 1-130-489-00 | FILM | 0.033MF 5% 50V | C2035 | 1-163-021-91 | CERAMIC CHIP 0.01MF 10% 50V | |
| C1439 | 1-104-664-11 | ELECT | 47MF 20% 25V | C2036 | 1-163-021-91 | CERAMIC CHIP 0.01MF 10% 50V | |
| C1440 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V | C2037 | 1-163-021-91 | CERAMIC CHIP 0.01MF 10% 50V | |
| C1442 | 1-126-934-11 | ELECT | 220MF 20% 16V | C2038 | 1-163-259-91 | CERAMIC CHIP 220PF 5% 50V | |
| C1443 | 1-163-259-91 | CERAMIC CHIP 220PF | 5% 50V | C2039 | 1-163-145-00 | CERAMIC CHIP 0.0015MF 5% 50V | |
| C1601 | 1-104-664-11 | ELECT | 47MF 20% 10V | C2040 | 1-163-021-91 | CERAMIC CHIP 0.01MF 10% 50V | |
| C1602 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V | C2041 | 1-163-263-11 | CERAMIC CHIP 330PF 5% 50V | |
| C1603 | 1-104-664-11 | ELECT | 47MF 20% 10V | C2042 | 1-107-909-11 | ELECT 47MF 20% 10V | |
| C1604 | 1-163-235-11 | CERAMIC CHIP 22PF | 5% 50V | C2043 | 1-163-021-91 | CERAMIC CHIP 0.01MF 10% 50V | |
| C1605 | 1-163-243-11 | CERAMIC CHIP 47PF | 5% 50V | C2044 | 1-164-004-11 | CERAMIC CHIP 0.1MF 10% 25V | |
| C1608 | 1-163-235-11 | CERAMIC CHIP 22PF | 5% 50V | C2045 | 1-163-021-91 | CERAMIC CHIP 0.01MF 10% 50V | |
| C1609 | 1-163-235-11 | CERAMIC CHIP 22PF | 5% 50V | C2046 | 1-107-905-11 | ELECT 4.7MF 20% 50V | |
| C1610 | 1-163-235-11 | CERAMIC CHIP 22PF | 5% 50V | C2047 | 1-164-004-11 | CERAMIC CHIP 0.1MF 10% 25V | |
| C1611 | 1-163-235-11 | CERAMIC CHIP 22PF | 5% 50V | C2048 | 1-164-004-11 | CERAMIC CHIP 0.1MF 10% 25V | |
| C1612 | 1-163-235-11 | CERAMIC CHIP 22PF | 5% 50V | C2049 | 1-107-909-11 | ELECT 47MF 20% 10V | |
| C1613 | 1-163-235-11 | CERAMIC CHIP 22PF | 5% 50V | C2050 | 1-163-021-91 | CERAMIC CHIP 0.01MF 10% 50V | |
| C1614 | 1-163-251-11 | CERAMIC CHIP 100PF | 5% 50V | C2051 | 1-107-909-11 | ELECT 47MF 20% 10V | |
| C1616 | 1-163-251-11 | CERAMIC CHIP 100PF | 5% 50V | C2052 | 1-163-021-91 | CERAMIC CHIP 0.01MF 10% 50V | |
| C1617 | 1-163-251-11 | CERAMIC CHIP 100PF | 5% 50V | C2053 | 1-164-004-11 | CERAMIC CHIP 0.1MF 10% 25V | |
| C1618 | 1-163-251-11 | CERAMIC CHIP 100PF | 5% 50V | C2054 | 1-164-004-11 | CERAMIC CHIP 0.1MF 10% 25V | |
| C1619 | 1-163-251-11 | CERAMIC CHIP 100PF | 5% 50V | C2055 | 1-164-004-11 | CERAMIC CHIP 0.1MF 10% 25V | |
| C1620 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V | C2057 | 1-163-021-91 | CERAMIC CHIP 0.01MF 10% 50V | |
| C1621 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V | C2058 | 1-163-021-91 | CERAMIC CHIP 0.01MF 10% 50V | |
| C2001 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V | C2059 | 1-107-909-11 | ELECT 47MF 20% 10V | |
| C2002 | 1-107-909-11 | ELECT | 47MF 20% 16V | C2060 | 1-163-021-91 | CERAMIC CHIP 0.01MF 10% 50V | |
| C2003 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V | C2062 | 1-163-021-91 | CERAMIC CHIP 0.01MF 10% 50V | |
| C2004 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V | C2063 | 1-164-004-11 | CERAMIC CHIP 0.1MF 10% 25V | |
| C2005 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V | C2064 | 1-107-909-11 | ELECT 47MF 20% 10V | |
| C2006 | 1-107-715-11 | ELECT | 22MF 20% 25V | C2065 | 1-163-021-91 | CERAMIC CHIP 0.01MF 10% 50V | |
| C2007 | 1-126-964-11 | ELECT | 10MF 20% 50V | C2066 | 1-163-021-91 | CERAMIC CHIP 0.01MF 10% 50V | |
| C2008 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V | C2067 | 1-164-004-11 | CERAMIC CHIP 0.1MF 10% 25V | |
| C2009 | 1-163-231-11 | CERAMIC CHIP 15PF | 5% 50V | C2068 | 1-164-004-11 | CERAMIC CHIP 0.1MF 10% 25V | |
| C2010 | 1-107-906-11 | ELECT | 10MF 20% 50V | C2069 | 1-164-004-11 | CERAMIC CHIP 0.1MF 10% 25V | |
| C2011 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V | C2070 | 1-164-004-11 | CERAMIC CHIP 0.1MF 10% 25V | |
| C2012 | 1-107-906-11 | ELECT | 10MF 20% 50V | C2071 | 1-164-004-11 | CERAMIC CHIP 0.1MF 10% 25V | |
| C2013 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V | C2072 | 1-164-004-11 | CERAMIC CHIP 0.1MF 10% 25V | |
| C2014 | 1-128-526-11 | ELECT | 100MF 20% 10V | C2073 | 1-107-909-11 | ELECT 47MF 20% 10V | |
| C2015 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V | C2075 | 1-163-251-11 | CERAMIC CHIP 100PF 5% 50V | |
| C2017 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V | C2076 | 1-164-004-11 | CERAMIC CHIP 0.1MF 10% 25V | |
| C2018 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V | C2077 | 1-164-004-11 | CERAMIC CHIP 0.1MF 10% 25V | |
| C2019 | 1-107-909-11 | ELECT | 47MF 20% 10V | C2078 | 1-164-004-11 | CERAMIC CHIP 0.1MF 10% 25V | |



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|-----------------------|---------|---------|--------------|----------------------|---------|
| C2079 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V | C4010 | 1-126-960-11 | ELECT 1MF | 20% 50V |
| C2080 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V | C4011 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V |
| C2081 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V | C4012 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V |
| C2082 | 1-107-906-11 | ELECT 10MF | 20% 50V | C4013 | 1-126-933-11 | ELECT 100MF | 20% 16V |
| C2083 | 1-107-909-11 | ELECT 47MF | 20% 10V | C4014 | 1-165-320-11 | CERAMIC CHIP 0.47MF | 10% 16V |
| C2084 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V | C4015 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V |
| C2085 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V | C4016 | 1-126-964-11 | ELECT 10MF | 20% 50V |
| C2086 | 1-107-902-11 | ELECT 1MF | 20% 50V | C4018 | 1-126-933-11 | ELECT 100MF | 20% 16V |
| C2087 | 1-163-139-00 | CERAMIC CHIP 820PF | 10% 50V | C4019 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V |
| C2088 | 1-107-906-11 | ELECT 10MF | 20% 50V | C4021 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V |
| C2090 | 1-107-909-11 | ELECT 47MF | 20% 10V | C4022 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V |
| C2091 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V | C4023 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V |
| C2093 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V | C4025 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V |
| C2096 | 1-107-909-11 | ELECT 47MF | 20% 10V | C4026 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V |
| C2097 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V | C4027 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V |
| C2098 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V | C4028 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V |
| C2099 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V | C4029 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V |
| C2101 | 1-107-909-11 | ELECT 47MF | 20% 16V | C4030 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V |
| C2102 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V | C4031 | 1-107-909-11 | ELECT 47MF | 20% 16V |
| C2103 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V | C4032 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V |
| C2104 | 1-164-161-11 | CERAMIC CHIP 0.0022MF | 10% 50V | C4035 | 1-110-501-11 | CERAMIC CHIP 0.33MF | 10% 16V |
| C2106 | 1-163-037-11 | CERAMIC CHIP 0.022MF | 10% 50V | C4036 | 1-110-501-11 | CERAMIC CHIP 0.33MF | 10% 16V |
| C2107 | 1-107-902-11 | ELECT 1MF | 20% 50V | C4037 | 1-110-501-11 | CERAMIC CHIP 0.33MF | 10% 16V |
| C2108 | 1-164-343-11 | CERAMIC CHIP 0.056MF | 10% 25V | C4039 | 1-163-275-11 | CERAMIC CHIP 0.001MF | 5% 50V |
| C2109 | 1-107-909-11 | ELECT 47MF | 20% 10V | C4044 | 1-110-501-11 | CERAMIC CHIP 0.33MF | 10% 16V |
| C2110 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V | C4045 | 1-110-501-11 | CERAMIC CHIP 0.33MF | 10% 16V |
| C2112 | 1-163-009-11 | CERAMIC CHIP 0.001MF | 10% 50V | C4046 | 1-110-501-11 | CERAMIC CHIP 0.33MF | 10% 16V |
| C2115 | 1-163-231-11 | CERAMIC CHIP 15PF | 5% 50V | C4047 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V |
| C2116 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V | C4048 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V |
| C2117 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V | C4049 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V |
| C2118 | 1-107-906-11 | ELECT 10MF | 20% 50V | C4050 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V |
| C2119 | 1-107-906-11 | ELECT 10MF | 20% 50V | C4051 | 1-163-113-00 | CERAMIC CHIP 68PF | 5% 50V |
| C2120 | 1-163-275-11 | CERAMIC CHIP 0.001MF | 5% 50V | C4052 | 1-126-933-11 | ELECT 100MF | 20% 16V |
| C2121 | 1-104-563-11 | FILM CHIP 0.1MF | 5% 16V | C4053 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V |
| C2122 | 1-163-009-11 | CERAMIC CHIP 0.001MF | 10% 50V | C4055 | 1-126-964-11 | ELECT 10MF | 20% 50V |
| C2123 | 1-104-563-11 | FILM CHIP 0.1MF | 5% 16V | C4056 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V |
| C2125 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V | C4063 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V |
| C2126 | 1-107-909-11 | ELECT 47MF | 20% 16V | C4064 | 1-126-927-11 | ELECT 2200MF | 20% 10V |
| C2127 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V | C4065 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V |
| C2128 | 1-107-909-11 | ELECT 47MF | 20% 16V | C4066 | 1-126-927-11 | ELECT 2200MF | 20% 10V |
| C2129 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V | C4067 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V |
| C2130 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V | C4068 | 1-163-251-11 | CERAMIC CHIP 100PF | 5% 50V |
| C2131 | 1-163-275-11 | CERAMIC CHIP 0.001MF | 5% 50V | C4069 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V |
| C2140 | 1-163-243-11 | CERAMIC CHIP 47PF | 5% 50V | C4071 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V |
| C2190 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V | C4072 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V |
| C2301 | 1-126-964-11 | ELECT 10MF | 20% 50V | C4073 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V |
| C2302 | 1-126-964-11 | ELECT 10MF | 20% 50V | C4080 | 1-163-259-91 | CERAMIC CHIP 220PF | 5% 50V |
| C2303 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V | C4081 | 1-126-964-11 | ELECT 10MF | 20% 50V |
| C2304 | 1-104-664-11 | ELECT 47MF | 20% 16V | C4085 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V |
| C2305 | 1-163-243-11 | CERAMIC CHIP 47PF | 5% 50V | C4090 | 1-104-664-11 | ELECT 47MF | 20% 16V |
| C4002 | 1-163-235-11 | CERAMIC CHIP 22PF | 5% 50V | C4096 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V |
| C4005 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V | C4097 | 1-126-933-11 | ELECT 100MF | 20% 16V |
| C4006 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V | C4098 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V |
| C4007 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V | C4099 | 1-126-933-11 | ELECT 100MF | 20% 16V |
| C4008 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V | C4100 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V |
| C4009 | 1-126-964-11 | ELECT 10MF | 20% 50V | C4201 | 1-126-964-11 | ELECT 10MF | 20% 50V |



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------------------|-------------------------------|---------------------------|----------------|----------------|--------------|----------------------|--------|
| C4202 | 1-126-964-11 | ELECT | 10MF 20% 50V | D1402 | 8-719-158-39 | ZENER DIODE RD10SB | |
| C4203 | 1-104-664-11 | ELECT | 47MF 20% 16V | D1405 | 8-719-404-49 | DIODE MA111 | |
| C4204 | 1-163-021-91 | CERAMIC CHIP | 0.01MF 10% 50V | D1406 | 8-719-404-49 | DIODE MA111 | |
| C4205 | 1-126-933-11 | ELECT | 100MF 20% 16V | D1407 | 8-719-404-49 | DIODE MA111 | |
| C4211 | 1-126-964-11 | ELECT | 10MF 20% 50V | D1408 | 8-719-404-49 | DIODE MA111 | |
| C4212 | 1-126-964-11 | ELECT | 10MF 20% 50V | D1601 | 8-719-801-78 | DIODE 1SS184 | |
| C4213 | 1-104-664-11 | ELECT | 47MF 20% 16V | D1605 | 8-719-404-49 | DIODE MA111 | |
| C4221 | 1-126-964-11 | ELECT | 10MF 20% 50V | D1606 | 8-719-404-49 | DIODE MA111 | |
| C4222 | 1-126-964-11 | ELECT | 10MF 20% 50V | D2001 | 8-719-404-49 | DIODE MA111 | |
| C4223 | 1-104-664-11 | ELECT | 47MF 20% 16V | D2002 | 8-719-031-68 | DIODE HVU359TRF | |
| C4224 | 1-163-021-91 | CERAMIC CHIP | 0.01MF 10% 50V | D2004 | 8-719-976-88 | ZENER DIODE DTZ3.9B | |
| C4225 | 1-126-933-11 | ELECT | 100MF 20% 16V | D2005 | 8-719-976-88 | ZENER DIODE DTZ3.9B | |
| C4230 | 1-164-004-11 | CERAMIC CHIP | 0.1MF 10% 25V | D2006 | 8-719-404-49 | DIODE MA111 | |
| C4231 | 1-164-004-11 | CERAMIC CHIP | 0.1MF 10% 25V | D2008 | 8-719-404-49 | DIODE MA111 | |
| C4232 | 1-104-664-11 | ELECT | 47MF 20% 16V | D2009 | 8-719-404-49 | DIODE MA111 | |
| C4401 | 1-104-664-11 | ELECT | 47MF 20% 16V | D2010 | 8-719-404-49 | DIODE MA111 | |
| C4402 | 1-163-021-91 | CERAMIC CHIP | 0.01MF 10% 50V | D2011 | 8-719-404-49 | DIODE MA111 | |
| C4403 | 1-126-964-11 | ELECT | 10MF 20% 50V | D2012 | 8-719-404-49 | DIODE MA111 | |
| C4404 | 1-126-964-11 | ELECT | 10MF 20% 50V | D4001 | 8-719-404-49 | DIODE MA111 | |
| C4405 | 1-126-964-11 | ELECT | 10MF 20% 50V | D4002 | 8-719-404-49 | DIODE MA111 | |
| C4406 | 1-126-964-11 | ELECT | 10MF 20% 50V | D4005 | 8-719-031-68 | DIODE HVU359TRF | |
| C4407 | 1-126-964-11 | ELECT | 10MF 20% 50V | D4006 | 8-719-031-68 | DIODE HVU359TRF | |
| C4408 | 1-126-964-11 | ELECT | 10MF 20% 50V | D4007 | 8-719-031-68 | DIODE HVU359TRF | |
| C4409 | 1-126-964-11 | ELECT | 10MF 20% 50V | D4008 | 8-719-031-68 | DIODE HVU359TRF | |
| C4410 | 1-126-964-11 | ELECT | 10MF 20% 50V | D4009 | 8-719-031-68 | DIODE HVU359TRF | |
| <CONNECTOR> | | | | D4010 | 8-719-031-68 | DIODE HVU359TRF | |
| CN1001*1-766-957-11 | CONNECTOR, BOARD TO BOARD 20P | | | D4011 | 8-719-031-68 | DIODE HVU359TRF | |
| CN1002*1-766-957-11 | CONNECTOR, BOARD TO BOARD 20P | | | D4012 | 8-719-031-68 | DIODE HVU359TRF | |
| CN1003*1-564-507-11 | PLUG, CONNECTOR | 4P | | <FERRITE BEAD> | | | |
| CN1005*1-564-513-11 | PLUG, CONNECTOR | 10P | | FB1601 | 1-412-364-11 | FERRITE | |
| CN1006 | 1-764-812-11 | CONNECTOR, BOARD TO BOARD | 11P | FB1602 | 1-412-364-11 | FERRITE | |
| CN1008*1-564-506-11 | PLUG, CONNECTOR | 3P | | FB2002 | 1-414-233-22 | INDUCTOR CHIP | |
| CN1009*1-564-512-11 | PLUG, CONNECTOR | 9P | | FB2037 | 1-414-233-22 | INDUCTOR CHIP | |
| CN1011*1-564-506-11 | PLUG, CONNECTOR | 3P | | <FILTER> | | | |
| CN1012*1-564-512-11 | PLUG, CONNECTOR | 9P | | FL2001 | 1-239-847-11 | FILTER, LOW PASS | |
| CN1016 | 1-695-915-11 | TAB (CONTACT) | | FL2002 | 1-233-535-11 | FILTER, LOW PASS | |
| CN1402*1-564-511-11 | PLUG, CONNECTOR | 8P | | FL2003 | 1-233-534-11 | FILTER, LOW PASS | |
| CN4003*1-564-511-11 | PLUG, CONNECTOR | 8P | | FL2004 | 1-233-535-11 | FILTER, LOW PASS | |
| CN4005*1-564-513-11 | PLUG, CONNECTOR | 10P | | FL2005 | 1-233-536-11 | FILTER, LOW PASS | |
| CN4006*1-564-512-11 | PLUG, CONNECTOR | 9P | | FL2006 | 1-233-536-11 | FILTER, LOW PASS | |
| CN4401*1-564-511-11 | PLUG, CONNECTOR | 8P | | FL2007 | 1-239-847-11 | FILTER, LOW PASS | |
| <DIODE> | | | | FL2015 | 1-233-539-21 | FILTER, EMI | |
| D1011 | 8-719-404-49 | DIODE MA111 | | FL2019 | 1-233-520-21 | FILTER, EMI | |
| D1025 | 8-719-404-49 | DIODE MA111 | | FL2020 | 1-233-520-21 | FILTER, EMI | |
| D1031 | 8-719-158-15 | ZENER DIODE RD5.6SB | | FL2021 | 1-233-520-21 | FILTER, EMI | |
| D1032 | 8-719-158-15 | ZENER DIODE RD5.6SB | | FL2022 | 1-233-520-21 | FILTER, EMI | |
| D1102 | 8-719-404-49 | DIODE MA111 | | <IC> | | | |
| D1103 | 8-719-404-49 | DIODE MA111 | | IC1007 | 8-759-390-51 | IC UPC2409AHF | |
| D1104 | 8-719-158-15 | ZENER DIODE RD5.6SB | | IC1008 | 8-759-054-12 | IC PQ09RA1 | |
| D1105 | 8-719-158-15 | ZENER DIODE RD5.6SB | | IC1101 | 8-759-564-02 | IC HD6473947-IT2-OTP | |
| D1301 | 8-719-404-49 | DIODE MA111 | | IC1102 | 8-759-352-91 | IC PST9143NL | |
| D1401 | 8-719-158-39 | ZENER DIODE RD10SB | | | | | |



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|------------------------|--------|---------|--------------|----------------------|--------|
| IC1103 | 8-759-454-79 | IC 24LC16BT/SN | | L4009 | 1-408-607-31 | INDUCTOR 22UH | |
| IC1106 | 8-759-013-86 | IC MC74HC4066F | | L4010 | 1-408-607-31 | INDUCTOR 22UH | |
| IC1401 | 8-759-172-60 | IC TA8776N | | L4011 | 1-408-603-31 | INDUCTOR 10UH | |
| IC1601 | 8-752-900-65 | IC CXP85324A-260Q | | | | | |
| IC1602 | 8-759-042-02 | IC S-80743AL-A7-S | | | | | |
| IC2001 | 8-759-161-24 | IC UPC659AGS-E2 | | | | <TRANSISTOR> | |
| IC2003 | 8-759-296-53 | IC UPC1862GS-E2 | | Q1101 | 8-729-422-54 | TRANSISTOR XN4215 | |
| IC2004 | 8-752-376-20 | IC CXD2052Q | | Q1102 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| IC2006 | 8-759-360-80 | IC UPD6487GF-3BA | | Q1103 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| IC2007 | 8-759-033-03 | IC MC74F08M | | Q1105 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| IC2008 | 8-759-167-20 | IC UPD42280GU-30 | | Q1108 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| IC2009 | 8-759-297-80 | IC MSM514222B-30GS-KR1 | | Q1301 | 8-729-900-53 | TRANSISTOR DTC114EK | |
| IC2011 | 8-759-083-11 | IC LA7217M | | Q1303 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| IC2012 | 8-759-081-44 | IC TC74VHC04F | | Q1304 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| IC2101 | 8-759-150-61 | IC UPC78L05T | | Q1408 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| IC2102 | 8-759-150-61 | IC UPC78L05T | | Q1409 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| IC2301 | 8-759-710-86 | IC NJM2233BM | | Q1410 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| IC4001 | 8-759-009-46 | IC MC14528BF | | Q1601 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| IC4002 | 8-752-072-88 | IC CXA2011Q | | Q1602 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| IC4003 | 8-752-070-54 | IC CXA1839Q-T6 | | Q1603 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| IC4004 | 8-752-058-68 | IC CXA1315M | | Q1604 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| IC4008 | 8-759-234-20 | IC TC7S08F | | Q1605 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| IC4009 | 8-759-011-65 | IC MC74HC4053F | | Q1606 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| IC4011 | 8-752-072-88 | IC CXA2011Q | | Q1607 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| IC4401 | 8-759-443-11 | IC NJM2283M-TE1 | | Q1608 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| | | <CHIP CONDUCTOR> | | Q2001 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| JR4001 | 1-216-295-91 | SHORT 0 | | Q2002 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| | | <COIL> | | Q2003 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| L1101 | 1-408-611-31 | INDUCTOR 47UH | | Q2004 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| L1102 | 1-408-611-31 | INDUCTOR 47UH | | Q2005 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| L1401 | 1-408-607-31 | INDUCTOR 22UH | | Q2007 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| L1402 | 1-408-607-31 | INDUCTOR 22UH | | Q2008 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| L1601 | 1-408-607-31 | INDUCTOR 22UH | | Q2009 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| L1602 | 1-408-597-31 | INDUCTOR 3.3UH | | Q2010 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| L2001 | 1-408-602-31 | INDUCTOR 8.2UH | | Q2011 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| L2002 | 1-408-592-11 | INDUCTOR 1.2UH | | Q2012 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| L2003 | 1-412-938-61 | INDUCTOR 0.82UH | | Q2013 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| L2004 | 1-408-592-11 | INDUCTOR 1.2UH | | Q2014 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| L2006 | 1-408-592-11 | INDUCTOR 1.2UH | | Q2015 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| L2007 | 1-408-592-11 | INDUCTOR 1.2UH | | Q2016 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| L2008 | 1-408-592-11 | INDUCTOR 1.2UH | | Q2017 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| L2009 | 1-408-412-00 | INDUCTOR 18UH | | Q2018 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| L2010 | 1-408-602-31 | INDUCTOR 8.2UH | | Q2019 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| L2011 | 1-408-412-00 | INDUCTOR 18UH | | Q2020 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| L4001 | 1-408-412-00 | INDUCTOR 18UH | | Q2021 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| L4002 | 1-408-603-31 | INDUCTOR 10UH | | Q2024 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| L4003 | 1-408-607-31 | INDUCTOR 22UH | | Q2027 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| L4004 | 1-408-603-31 | INDUCTOR 10UH | | Q2028 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| L4005 | 1-408-607-31 | INDUCTOR 22UH | | Q2029 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| L4006 | 1-408-607-31 | INDUCTOR 22UH | | Q2030 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| L4007 | 1-408-611-31 | INDUCTOR 47UH | | Q2031 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| L4008 | 1-408-607-31 | INDUCTOR 22UH | | Q2035 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| | | | | Q2036 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| | | | | Q2037 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| | | | | Q2050 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| | | | | Q2051 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|-------------|------------------|---------|--------------|-------------|------------------|
| R1603 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W | R2032 | 1-216-033-00 | RES,CHIP | 220 5% 1/10W |
| R1604 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W | R2033 | 1-216-033-00 | RES,CHIP | 220 5% 1/10W |
| R1605 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | R2034 | 1-216-699-11 | METAL CHIP | 100K 0.50% 1/10W |
| R1606 | 1-216-033-00 | RES,CHIP | 220 5% 1/10W | R2035 | 1-216-665-11 | METAL CHIP | 3.9K 0.50% 1/10W |
| R1607 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | R2036 | 1-216-651-11 | METAL CHIP | 1K 0.50% 1/10W |
| R1608 | 1-216-057-00 | RES,CHIP | 2.2K 5% 1/10W | R2037 | 1-216-097-91 | RES,CHIP | 100K 5% 1/10W |
| R1609 | 1-216-057-00 | RES,CHIP | 2.2K 5% 1/10W | R2038 | 1-216-693-11 | METAL CHIP | 56K 0.50% 1/10W |
| R1610 | 1-216-035-00 | RES,CHIP | 270 5% 1/10W | R2039 | 1-216-059-00 | RES,CHIP | 2.7K 5% 1/10W |
| R1611 | 1-216-035-00 | RES,CHIP | 270 5% 1/10W | R2040 | 1-216-057-00 | RES,CHIP | 2.2K 5% 1/10W |
| R1612 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | R2042 | 1-216-035-00 | RES,CHIP | 270 5% 1/10W |
| R1613 | 1-216-035-00 | RES,CHIP | 270 5% 1/10W | R2043 | 1-216-062-00 | RES,CHIP | 3.6K 5% 1/10W |
| R1614 | 1-216-035-00 | RES,CHIP | 270 5% 1/10W | R2044 | 1-216-071-00 | RES,CHIP | 8.2K 5% 1/10W |
| R1615 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | R2045 | 1-216-053-00 | RES,CHIP | 1.5K 5% 1/10W |
| R1616 | 1-216-035-00 | RES,CHIP | 270 5% 1/10W | R2046 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W |
| R1617 | 1-216-035-00 | RES,CHIP | 270 5% 1/10W | R2047 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W |
| R1618 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | R2048 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W |
| R1619 | 1-216-039-00 | RES,CHIP | 390 5% 1/10W | R2049 | 1-216-059-00 | RES,CHIP | 2.7K 5% 1/10W |
| R1620 | 1-216-039-00 | RES,CHIP | 390 5% 1/10W | R2050 | 1-216-057-00 | RES,CHIP | 2.2K 5% 1/10W |
| R1621 | 1-216-039-00 | RES,CHIP | 390 5% 1/10W | R2051 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W |
| R1622 | 1-216-045-00 | RES,CHIP | 680 5% 1/10W | R2052 | 1-216-057-00 | RES,CHIP | 2.2K 5% 1/10W |
| R1623 | 1-216-045-00 | RES,CHIP | 680 5% 1/10W | R2053 | 1-216-043-91 | RES,CHIP | 560 5% 1/10W |
| R1624 | 1-216-045-00 | RES,CHIP | 680 5% 1/10W | R2054 | 1-216-059-00 | RES,CHIP | 2.7K 5% 1/10W |
| R1625 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | R2055 | 1-216-051-00 | RES,CHIP | 1.2K 5% 1/10W |
| R1626 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W | R2056 | 1-216-033-00 | RES,CHIP | 220 5% 1/10W |
| R1627 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W | R2057 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W |
| R1628 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W | R2059 | 1-216-295-91 | SHORT | 0 |
| R1629 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W | R2060 | 1-216-295-91 | SHORT | 0 |
| R1630 | 1-216-295-91 | SHORT | 0 | R2061 | 1-216-295-91 | SHORT | 0 |
| R1646 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | R2062 | 1-216-067-00 | RES,CHIP | 5.6K 5% 1/10W |
| R2001 | 1-216-081-00 | RES,CHIP | 22K 5% 1/10W | R2064 | 1-216-089-91 | RES,CHIP | 47K 5% 1/10W |
| R2002 | 1-216-001-00 | RES,CHIP | 10 5% 1/10W | R2065 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W |
| R2003 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | R2066 | 1-216-059-00 | RES,CHIP | 2.7K 5% 1/10W |
| R2004 | 1-216-077-00 | RES,CHIP | 15K 5% 1/10W | R2068 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W |
| R2005 | 1-216-055-00 | RES,CHIP | 1.8K 5% 1/10W | R2069 | 1-216-023-00 | RES,CHIP | 82 5% 1/10W |
| R2006 | 1-216-017-91 | RES,CHIP | 47 5% 1/10W | R2071 | 1-216-043-91 | RES,CHIP | 560 5% 1/10W |
| R2007 | 1-216-061-00 | RES,CHIP | 3.3K 5% 1/10W | R2072 | 1-216-023-00 | RES,CHIP | 82 5% 1/10W |
| R2008 | 1-216-057-00 | RES,CHIP | 2.2K 5% 1/10W | R2073 | 1-216-033-00 | RES,CHIP | 220 5% 1/10W |
| R2010 | 1-216-645-11 | METAL CHIP | 560 0.50% 1/10W | R2074 | 1-216-067-00 | RES,CHIP | 5.6K 5% 1/10W |
| R2011 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W | R2076 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W |
| R2012 | 1-216-061-00 | RES,CHIP | 3.3K 5% 1/10W | R2077 | 1-216-295-91 | SHORT | 0 |
| R2013 | 1-216-075-00 | RES,CHIP | 12K 5% 1/10W | R2078 | 1-216-295-91 | SHORT | 0 |
| R2014 | 1-216-638-11 | METAL CHIP | 300 0.50% 1/10W | R2079 | 1-216-634-11 | METAL CHIP | 200 0.50% 1/10W |
| R2015 | 1-216-061-00 | RES,CHIP | 3.3K 5% 1/10W | R2080 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W |
| R2016 | 1-216-669-11 | METAL CHIP | 5.6K 0.50% 1/10W | R2081 | 1-216-295-91 | SHORT | 0 |
| R2017 | 1-216-643-11 | METAL CHIP | 470 0.50% 1/10W | R2082 | 1-216-295-91 | SHORT | 0 |
| R2018 | 1-216-001-00 | RES,CHIP | 10 5% 1/10W | R2083 | 1-216-295-91 | SHORT | 0 |
| R2019 | 1-216-097-91 | RES,CHIP | 100K 5% 1/10W | R2084 | 1-216-634-11 | METAL CHIP | 200 0.50% 1/10W |
| R2021 | 1-216-039-00 | RES,CHIP | 390 5% 1/10W | R2087 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W |
| R2022 | 1-216-039-00 | RES,CHIP | 390 5% 1/10W | R2088 | 1-216-047-91 | RES,CHIP | 820 5% 1/10W |
| R2024 | 1-216-683-11 | METAL CHIP | 22K 0.50% 1/10W | R2089 | 1-216-295-91 | SHORT | 0 |
| R2025 | 1-216-675-11 | METAL CHIP | 10K 0.50% 1/10W | R2090 | 1-216-043-91 | RES,CHIP | 560 5% 1/10W |
| R2026 | 1-216-023-00 | RES,CHIP | 82 5% 1/10W | R2091 | 1-216-634-11 | METAL CHIP | 200 0.50% 1/10W |
| R2027 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | R2094 | 1-216-067-00 | RES,CHIP | 5.6K 5% 1/10W |
| R2029 | 1-216-089-91 | RES,CHIP | 47K 5% 1/10W | R2096 | 1-216-651-11 | METAL CHIP | 1K 0.50% 1/10W |
| R2030 | 1-216-089-91 | RES,CHIP | 47K 5% 1/10W | R2097 | 1-216-085-00 | RES,CHIP | 33K 5% 1/10W |
| R2031 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | R2099 | 1-216-057-00 | RES,CHIP | 2.2K 5% 1/10W |



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|-------------|------------------|---------|--------------|-------------|-----------------|
| R2100 | 1-216-047-91 | RES,CHIP | 820 5% 1/10W | R2204 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W |
| R2101 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W | R2205 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W |
| R2102 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | R2211 | 1-216-065-91 | RES,CHIP | 4.7K 5% 1/10W |
| R2103 | 1-216-043-91 | RES,CHIP | 560 5% 1/10W | R2212 | 1-216-031-00 | RES,CHIP | 180 5% 1/10W |
| R2108 | 1-216-643-11 | METAL CHIP | 470 0.50% 1/10W | R2213 | 1-216-065-91 | RES,CHIP | 4.7K 5% 1/10W |
| R2109 | 1-216-033-00 | RES,CHIP | 220 5% 1/10W | R2214 | 1-216-689-11 | RES,CHIP | 39K 5% 1/10W |
| R2111 | 1-216-043-91 | RES,CHIP | 560 5% 1/10W | R2215 | 1-216-053-00 | RES,CHIP | 1.5K 5% 1/10W |
| R2112 | 1-216-295-91 | SHORT | 0 | R2216 | 1-216-031-00 | RES,CHIP | 180 5% 1/10W |
| R2113 | 1-216-067-00 | RES,CHIP | 5.6K 5% 1/10W | R2301 | 1-216-065-91 | RES,CHIP | 4.7K 5% 1/10W |
| R2125 | 1-216-047-91 | RES,CHIP | 820 5% 1/10W | R2302 | 1-216-033-00 | RES,CHIP | 220 5% 1/10W |
| R2129 | 1-216-043-91 | RES,CHIP | 560 5% 1/10W | R2303 | 1-216-035-00 | RES,CHIP | 270 5% 1/10W |
| R2130 | 1-216-295-91 | SHORT | 0 | R2304 | 1-216-047-91 | RES,CHIP | 820 5% 1/10W |
| R2131 | 1-216-067-00 | RES,CHIP | 5.6K 5% 1/10W | R2305 | 1-216-051-00 | RES,CHIP | 1.2K 5% 1/10W |
| R2132 | 1-216-295-91 | SHORT | 0 | R2306 | 1-216-077-00 | RES,CHIP | 15K 5% 1/10W |
| R2133 | 1-216-295-91 | SHORT | 0 | R2307 | 1-216-055-00 | RES,CHIP | 1.8K 5% 1/10W |
| R2135 | 1-216-101-00 | RES,CHIP | 150K 5% 1/10W | R4002 | 1-216-675-11 | METAL CHIP | 10K 0.50% 1/10W |
| R2141 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W | R4003 | 1-216-680-11 | METAL CHIP | 16K 0.50% 1/10W |
| R2144 | 1-216-295-91 | SHORT | 0 | R4004 | 1-216-680-11 | METAL CHIP | 16K 0.50% 1/10W |
| R2145 | 1-216-623-11 | METAL CHIP | 68 0.50% 1/10W | R4005 | 1-216-680-11 | METAL CHIP | 16K 0.50% 1/10W |
| R2150 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W | R4006 | 1-216-675-11 | METAL CHIP | 10K 0.50% 1/10W |
| R2151 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | R4007 | 1-216-675-11 | METAL CHIP | 10K 0.50% 1/10W |
| R2152 | 1-216-043-91 | RES,CHIP | 560 5% 1/10W | R4008 | 1-216-675-11 | METAL CHIP | 10K 0.50% 1/10W |
| R2153 | 1-216-053-00 | RES,CHIP | 1.5K 5% 1/10W | R4009 | 1-216-677-11 | METAL CHIP | 12K 0.50% 1/10W |
| R2154 | 1-216-063-91 | RES,CHIP | 3.9K 5% 1/10W | R4011 | 1-216-677-11 | METAL CHIP | 12K 0.50% 1/10W |
| R2155 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | R4012 | 1-216-677-11 | METAL CHIP | 12K 0.50% 1/10W |
| R2157 | 1-216-037-00 | RES,CHIP | 330 5% 1/10W | R4013 | 1-216-675-11 | METAL CHIP | 10K 0.50% 1/10W |
| R2158 | 1-216-037-00 | RES,CHIP | 330 5% 1/10W | R4018 | 1-216-057-00 | RES,CHIP | 2.2K 5% 1/10W |
| R2159 | 1-216-097-91 | RES,CHIP | 100K 5% 1/10W | R4019 | 1-216-035-00 | RES,CHIP | 270 5% 1/10W |
| R2160 | 1-216-037-00 | RES,CHIP | 330 5% 1/10W | R4020 | 1-216-065-91 | RES,CHIP | 4.7K 5% 1/10W |
| R2161 | 1-216-037-00 | RES,CHIP | 330 5% 1/10W | R4023 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W |
| R2162 | 1-216-097-91 | RES,CHIP | 100K 5% 1/10W | R4024 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W |
| R2163 | 1-218-764-11 | METAL CHIP | 330K 0.50% 1/10W | R4026 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W |
| R2173 | 1-216-677-11 | METAL CHIP | 12K 0.50% 1/10W | R4027 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W |
| R2174 | 1-216-695-11 | METAL CHIP | 68K 0.50% 1/10W | R4028 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W |
| R2175 | 1-216-097-91 | RES,CHIP | 100K 5% 1/10W | R4029 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W |
| R2176 | 1-216-687-11 | METAL CHIP | 33K 0.50% 1/10W | R4032 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W |
| R2177 | 1-216-675-11 | METAL CHIP | 10K 0.50% 1/10W | R4033 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W |
| R2178 | 1-216-065-91 | RES,CHIP | 4.7K 5% 1/10W | R4034 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W |
| R2179 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W | R4035 | 1-216-295-91 | SHORT | 0 |
| R2180 | 1-218-756-11 | METAL CHIP | 150K 0.50% 1/10W | R4036 | 1-216-077-00 | RES,CHIP | 15K 5% 1/10W |
| R2181 | 1-216-697-91 | METAL CHIP | 82K 0.50% 1/10W | R4040 | 1-216-133-00 | RES,CHIP | 3.3M 5% 1/10W |
| R2182 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W | R4042 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W |
| R2183 | 1-218-762-11 | METAL CHIP | 270K 0.50% 1/10W | R4044 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W |
| R2184 | 1-216-675-11 | METAL CHIP | 10K 0.50% 1/10W | R4046 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W |
| R2191 | 1-216-041-00 | RES,CHIP | 470 5% 1/10W | R4047 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W |
| R2192 | 1-216-041-00 | RES,CHIP | 470 5% 1/10W | R4048 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W |
| R2193 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | R4050 | 1-216-083-00 | RES,CHIP | 27K 5% 1/10W |
| R2194 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | R4051 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W |
| R2195 | 1-216-077-00 | RES,CHIP | 15K 5% 1/10W | R4052 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W |
| R2196 | 1-216-077-00 | RES,CHIP | 15K 5% 1/10W | R4063 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W |
| R2197 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W | R4064 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W |
| R2198 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W | R4065 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W |
| R2200 | 1-216-035-00 | RES,CHIP | 270 5% 1/10W | R4066 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W |
| R2201 | 1-216-035-00 | RES,CHIP | 270 5% 1/10W | R4067 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W |
| R2202 | 1-216-051-00 | RES,CHIP | 1.2K 5% 1/10W | R4081 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W |
| R2203 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | R4089 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W |



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|-------------|---------------|------------------|--------------|------------------|---------------|
| R4090 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W | R4328 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W |
| R4091 | 1-216-041-00 | RES,CHIP | 470 5% 1/10W | R4329 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W |
| R4092 | 1-216-077-00 | RES,CHIP | 15K 5% 1/10W | R4330 | 1-216-079-00 | RES,CHIP | 18K 5% 1/10W |
| R4093 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W | R4331 | 1-216-079-00 | RES,CHIP | 18K 5% 1/10W |
| R4094 | 1-216-041-00 | RES,CHIP | 470 5% 1/10W | R4332 | 1-216-079-00 | RES,CHIP | 18K 5% 1/10W |
| R4095 | 1-216-077-00 | RES,CHIP | 15K 5% 1/10W | R4333 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W |
| R4096 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W | R4334 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W |
| R4103 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W | R4335 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W |
| R4104 | 1-216-051-00 | RES,CHIP | 1.2K 5% 1/10W | R4340 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W |
| R4105 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W | R4341 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W |
| R4106 | 1-216-051-00 | RES,CHIP | 1.2K 5% 1/10W | R4342 | 1-216-041-00 | RES,CHIP | 470 5% 1/10W |
| R4107 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W | R4350 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W |
| R4108 | 1-216-051-00 | RES,CHIP | 1.2K 5% 1/10W | R4351 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W |
| R4134 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | R4352 | 1-216-041-00 | RES,CHIP | 470 5% 1/10W |
| R4135 | 1-216-089-91 | RES,CHIP | 47K 5% 1/10W | R4353 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W |
| R4136 | 1-216-089-91 | RES,CHIP | 47K 5% 1/10W | R4354 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W |
| R4137 | 1-216-041-00 | RES,CHIP | 470 5% 1/10W | R4360 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W |
| R4138 | 1-216-089-91 | RES,CHIP | 47K 5% 1/10W | R4361 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W |
| R4139 | 1-216-089-91 | RES,CHIP | 47K 5% 1/10W | R4362 | 1-216-041-00 | RES,CHIP | 470 5% 1/10W |
| R4140 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | R4369 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W |
| R4142 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | R4370 | 1-216-117-00 | RES,CHIP | 680K 5% 1/10W |
| R4143 | 1-216-295-91 | SHORT | 0 | R4373 | 1-216-295-91 | SHORT | 0 |
| R4150 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W | R4401 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W |
| R4160 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | R4402 | 1-216-081-00 | RES,CHIP | 22K 5% 1/10W |
| R4161 | 1-216-295-91 | SHORT | 0 | R4403 | 1-216-041-00 | RES,CHIP | 470 5% 1/10W |
| R4162 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W | R4404 | 1-216-081-00 | RES,CHIP | 22K 5% 1/10W |
| R4164 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | R4405 | 1-216-041-00 | RES,CHIP | 470 5% 1/10W |
| R4165 | 1-216-295-91 | SHORT | 0 | R4407 | 1-216-011-00 | RES,CHIP | 27 5% 1/10W |
| R4166 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W | R4409 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W |
| R4170 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | R4410 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W |
| R4171 | 1-216-295-91 | SHORT | 0 | R4411 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W |
| R4172 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W | R4412 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W |
| R4301 | 1-216-041-00 | RES,CHIP | 470 5% 1/10W | R4413 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W |
| R4302 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | R4414 | 1-216-041-00 | RES,CHIP | 470 5% 1/10W |
| R4303 | 1-216-295-91 | SHORT | 0 | R4415 | 1-216-035-00 | RES,CHIP | 270 5% 1/10W |
| R4304 | 1-216-023-00 | RES,CHIP | 82 5% 1/10W | R4416 | 1-216-017-91 | RES,CHIP | 47 5% 1/10W |
| R4305 | 1-216-295-91 | SHORT | 0 | R4417 | 1-216-041-00 | RES,CHIP | 470 5% 1/10W |
| R4306 | 1-216-295-91 | SHORT | 0 | R4418 | 1-216-033-00 | RES,CHIP | 220 5% 1/10W |
| R4307 | 1-216-041-00 | RES,CHIP | 470 5% 1/10W | R4419 | 1-216-009-00 | RES,CHIP | 22 5% 1/10W |
| R4308 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W | <RESISTOR BLOCK> | | | |
| R4309 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W | RB1101 | 1-236-404-11 | NETWORK, RES 220 | |
| R4311 | 1-216-041-00 | RES,CHIP | 470 5% 1/10W | RB1103 | 1-236-404-11 | NETWORK, RES 220 | |
| R4312 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | RB1105 | 1-236-400-11 | NETWORK, RES 100 | |
| R4313 | 1-216-295-91 | SHORT | 0 | RB1106 | 1-236-400-11 | NETWORK, RES 100 | |
| R4314 | 1-216-029-00 | RES,CHIP | 150 5% 1/10W | RB1107 | 1-236-404-11 | NETWORK, RES 220 | |
| R4315 | 1-216-295-91 | SHORT | 0 | RB1110 | 1-236-404-11 | NETWORK, RES 220 | |
| R4316 | 1-216-295-91 | SHORT | 0 | RB1111 | 1-236-404-11 | NETWORK, RES 220 | |
| R4317 | 1-216-041-00 | RES,CHIP | 470 5% 1/10W | RB1112 | 1-236-404-11 | NETWORK, RES 220 | |
| R4318 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W | RB1113 | 1-236-404-11 | NETWORK, RES 220 | |
| R4319 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W | RB1114 | 1-236-404-11 | NETWORK, RES 220 | |
| R4321 | 1-216-041-00 | RES,CHIP | 470 5% 1/10W | RB1601 | 1-236-400-11 | NETWORK, RES 100 | |
| R4322 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | RB1602 | 1-236-400-11 | NETWORK, RES 100 | |
| R4323 | 1-216-295-91 | SHORT | 0 | RB1603 | 1-236-400-11 | NETWORK, RES 100 | |
| R4324 | 1-216-029-00 | RES,CHIP | 150 5% 1/10W | RB1604 | 1-236-400-11 | NETWORK, RES 100 | |
| R4325 | 1-216-295-91 | SHORT | 0 | | | | |
| R4326 | 1-216-295-91 | SHORT | 0 | | | | |
| R4327 | 1-216-041-00 | RES,CHIP | 470 5% 1/10W | | | | |

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

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



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------------------------------------|--------------|-------------------|------------------|---------------|--------------|---------------------------|-----------------|
| <CRYSTAL> | | | | C646 | 1-102-129-00 | CERAMIC | 0.01MF 10% 50V |
| X1101 | 1-760-506-11 | VIBRATOR, CRYSTAL | | C648 | 1-137-195-11 | FILM | 0.56MF 5% 50V |
| X1601 | 1-579-125-11 | VIBRATOR, CERAMIC | | C649 | 1-137-195-11 | FILM | 0.56MF 5% 50V |
| X2001 | 1-760-892-21 | VIBRATOR, CRYSTAL | | C650 | 1-129-720-00 | FILM | 0.033MF 5% 630V |
| X2002 | 1-579-583-11 | VIBRATOR, CERAMIC | | C651 | 1-104-330-91 | CERAMIC | 470PF 10% 1KV |
| X2003 | 1-577-165-11 | VIBLATOR, CERAMIC | | C652 | 1-104-330-91 | CERAMIC | 470PF 10% 1KV |
| ***** | | | | C660 | 1-104-665-11 | ELECT | 100MF 20% 25V |
| * A-1311-597-AG BOARD, COMPLETE | | | | C661 | 1-104-665-11 | ELECT | 100MF 20% 10V |
| ***** | | | | C682 | 1-126-963-11 | ELECT | 4.7MF 20% 50V |
| 4-382-854-11 SCREW (M3X10), P, SW (+) | | | | C701 | 1-115-732-11 | ELECT | 330MF 20% 10V |
| (Q610,D601,D605,D606,D610,D611) | | | | C702 | 1-104-664-11 | ELECT | 47MF 20% 25V |
| 7-682-948-01 SCREW +PSW 3X8 (Q640) | | | | C703 | 1-104-664-11 | ELECT | 47MF 20% 25V |
| | | | | C704 | 1-102-129-00 | CERAMIC | 0.01MF 10% 50V |
| | | | | C705 | 1-136-153-00 | FILM | 0.01MF 5% 50V |
| | | | | C706 | 1-136-169-00 | FILM | 0.22MF 5% 50V |
| <CAPACITOR> | | | | <CONNECTOR> | | | |
| C601 | 1-111-092-11 | ELECT | 0.001F 20% 35V | CN602* | 1-564-509-11 | PLUG, CONNECTOR | 6P |
| C602 | 1-126-967-11 | ELECT | 47MF 20% 50V | CN604* | 1-564-513-11 | PLUG, CONNECTOR | 10P |
| C603 Δ | 1-104-708-51 | FILM | 0.47MF 20% 250V | CN607* | 1-564-511-11 | PLUG, CONNECTOR | 8P |
| C604 Δ | 1-104-708-51 | FILM | 0.47MF 20% 250V | CN608* | 1-564-506-11 | PLUG, CONNECTOR | 3P |
| C605 Δ | 1-113-926-91 | CERAMIC | 0.0047MF 250V | CN609* | 1-564-506-11 | PLUG, CONNECTOR | 3P |
| C606 Δ | 1-113-926-91 | CERAMIC | 0.0047MF 250V | CN610 | 1-695-915-11 | TAB (CONTACT) | |
| C607 | 1-126-941-11 | ELECT | 470MF 20% 25V | CN611* | 1-691-960-21 | PIN, CONNECTOR (PC BOARD) | 3P |
| C608 | 1-104-664-11 | ELECT | 47MF 20% 25V | CN612 | 1-691-960-11 | PIN, CONNECTOR (PC BOARD) | 3P |
| C609 | 1-126-929-11 | ELECT | 4700MF 20% 10V | CN613 | 1-691-960-11 | PIN, CONNECTOR (PC BOARD) | 3P |
| C610 | 1-137-479-11 | FILM | 1MF 10% 400V | CN614* | 1-774-511-11 | CONNECTOR, BOARD TO BOARD | 10P |
| C611 | 1-113-607-11 | ELECT(BLOCK) | 330MF 20% 400V | <DIODE> | | | |
| C612 Δ | 1-117-699-51 | CERAMIC | 0.001MF 99% 250V | D601 | 8-719-052-92 | DIODE D10SBS4F | |
| C613 Δ | 1-117-699-51 | CERAMIC | 0.001MF 99% 250V | D603 | 8-719-510-09 | DIODE D10SC6M | |
| C614 | 1-126-937-11 | ELECT | 4700MF 20% 16V | D605 | 8-719-510-12 | DIODE D10SC4M | |
| C616 | 1-104-664-11 | ELECT | 47MF 20% 25V | D606 | 8-719-510-12 | DIODE D10SC4M | |
| C617 | 1-107-655-11 | ELECT | 47MF 20% 250V | D607 | 8-719-110-16 | ZENER DIODE RD10ESB1 | |
| C619 | 1-104-664-11 | ELECT | 47MF 20% 25V | D609 | 8-719-510-64 | DIODE S2LA20F | |
| C622 | 1-104-664-11 | ELECT | 47MF 20% 25V | D610 Δ | 8-719-510-53 | DIODE D4SB60L | |
| C623 | 1-126-968-11 | ELECT | 100MF 20% 50V | D611 | 8-719-029-04 | DIODE D5L60 | |
| C624 | 1-104-330-91 | CERAMIC | 470PF 10% 1KV | D612 | 8-719-911-19 | DIODE 1SS119-25 | |
| C625 | 1-102-129-00 | CERAMIC | 0.01MF 10% 50V | D613 | 8-719-911-19 | DIODE 1SS119-25 | |
| C626 | 1-102-129-00 | CERAMIC | 0.01MF 10% 50V | D615 | 8-719-911-19 | DIODE 1SS119-25 | |
| C627 | 1-102-129-00 | CERAMIC | 0.01MF 10% 50V | D617 | 8-719-911-19 | DIODE 1SS119-25 | |
| C628 | 1-102-129-00 | CERAMIC | 0.01MF 10% 50V | D618 | 8-719-110-35 | ZENER DIODE RD13ESB1 | |
| C629 | 1-102-129-00 | CERAMIC | 0.01MF 10% 50V | D619 | 8-719-109-90 | ZENER DIODE RD5.6ESB3 | |
| C630 | 1-126-960-11 | ELECT | 1MF 20% 50V | D620 | 8-719-911-19 | DIODE 1SS119-25 | |
| C631 Δ | 1-113-900-51 | CERAMIC | 470PF 10% 250V | D621 | 8-719-301-18 | DIODE RM2CS | |
| C635 | 1-136-165-00 | FILM | 0.1MF 5% 50V | D627 | 8-719-911-19 | DIODE 1SS119-25 | |
| C636 | 1-136-158-00 | FILM | 0.027MF 5% 50V | D628 | 8-719-911-19 | DIODE 1SS119-25 | |
| C639 | 1-137-194-81 | FILM | 0.47MF 5% 50V | D629 | 8-719-911-19 | DIODE 1SS119-25 | |
| C640 | 1-137-194-81 | FILM | 0.47MF 5% 50V | D640 | 8-719-911-19 | DIODE 1SS119-25 | |
| C641 | 1-104-330-91 | CERAMIC | 470PF 10% 1KV | D642 | 8-719-911-19 | DIODE 1SS119-25 | |
| C642 | 1-126-965-11 | ELECT | 22MF 20% 50V | D644 | 8-719-911-19 | DIODE 1SS119-25 | |
| C643 | 1-126-963-11 | ELECT | 4.7MF 20% 50V | D660 | 8-719-059-23 | DIODE P6KE200AG23 | |
| C644 | 1-104-664-11 | ELECT | 47MF 20% 25V | D661 | 8-719-947-06 | DIODE RGP10JPKG23 | |
| C645 | 1-136-153-00 | FILM | 0.01MF 5% 50V | D662 | 8-719-052-90 | DIODE D1NL40-TA2 | |
| | | | | D664 | 8-719-911-19 | DIODE 1SS119-25 | |



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

| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|----------------|---------------------------|--------|---------|--------------|---------------------|--------|
| D703 | 8-719-510-64 | DIODE S2LA20F | | R607 | 1-249-389-11 | CARBON 4.7 5% | 1/4W |
| D704 | 8-719-510-64 | DIODE S2LA20F | | R610 | 1-216-361-00 | METAL OXIDE 0.22 5% | 2W F |
| | | | | R611 | 1-216-350-11 | METAL OXIDE 1.2 5% | 1W F |
| | | <FUSE> | | R612 | 1-215-485-00 | METAL 470K 1% | 1/4W |
| | | | | R613 | 1-215-485-00 | METAL 470K 1% | 1/4W |
| F601 | 1-576-233-11 | FUSE (H.B.C.) (6.3A/250V) | | R614 | 1-247-863-91 | CARBON 22K 5% | 1/4W |
| | 1-533-223-11 | HOLDER, FUSE; F601 | | R617 | 1-202-880-91 | SOLID 330K 20% | 1/2W |
| | | <FERRITE BEAD> | | R618 | 1-249-429-11 | CARBON 10K 5% | 1/4W |
| | | | | R619 | 1-215-482-00 | METAL 360K 1% | 1/4W |
| FB610 | 1-410-396-41 | FERRITE 0.45UH | | R620 | 1-215-482-00 | METAL 360K 1% | 1/4W |
| FB611 | 1-410-396-41 | FERRITE 0.45UH | | R621 | 1-215-482-00 | METAL 360K 1% | 1/4W |
| FB612 | 1-410-396-41 | FERRITE 0.45UH | | R622 | 1-249-435-11 | CARBON 33K 5% | 1/4W |
| FB620 | 1-410-396-41 | FERRITE 0.45UH | | R623 | 1-215-427-00 | METAL 1.8K 1% | 1/4W |
| FB621 | 1-410-396-41 | FERRITE 0.45UH | | R624 | 1-249-419-11 | CARBON 1.5K 5% | 1/4W |
| FB622 | 1-410-396-41 | FERRITE 0.45UH | | R625 | 1-249-417-11 | CARBON 1K 5% | 1/4W |
| | | <IC> | | R626 | 1-249-429-11 | CARBON 10K 5% | 1/4W |
| IC603 | 8-759-198-31 | IC UPC1093J-1-T | | R627 | 1-215-426-00 | METAL 1.6K 1% | 1/4W |
| IC701 | 8-759-426-45 | IC PWR-TOP210PFI | | R628 | 1-249-425-11 | CARBON 4.7K 5% | 1/4W |
| IC702 | 8-759-198-31 | IC UPC1093J-1-T | | R629 | 1-249-421-11 | CARBON 2.2K 5% | 1/4W |
| | | <COIL> | | R630 | 1-247-863-91 | CARBON 22K 5% | 1/4W |
| | | | | R631 | 1-247-807-31 | CARBON 100 5% | 1/4W |
| L601 | 1-412-519-11 | INDUCTOR 3.3UH | | R632 | 1-249-429-11 | CARBON 10K 5% | 1/4W |
| L603 | 1-412-525-31 | INDUCTOR 10UH | | R635 | 1-249-429-11 | CARBON 10K 5% | 1/4W |
| L604 | 1-412-525-31 | INDUCTOR 10UH | | R636 | 1-216-361-00 | METAL OXIDE 0.22 5% | 2W F |
| L605 | 1-412-525-31 | INDUCTOR 10UH | | R637 | 1-249-393-11 | CARBON 10 5% | 1/4W |
| L610 | 1-416-512-11 | INDUCTOR 0UH | | R638 | 1-215-477-00 | METAL 220K 1% | 1/4W |
| L702 | 1-412-529-11 | INDUCTOR 22UH | | R639 | 1-215-479-00 | METAL 270K 1% | 1/4W |
| | | <PHOTO COUPLER> | | R640 | 1-220-926-21 | FUSIBLE 0.47 10% | 1/2W F |
| | | | | R641 | 1-218-642-11 | METAL OXIDE 100K 5% | 1W F |
| PH680 | 1-8-749-010-65 | PHOTO COUPLER PC123FY2 | | R642 | 1-218-642-11 | METAL OXIDE 100K 5% | 1W F |
| PH701 | 1-8-749-010-65 | PHOTO COUPLER PC123FY2 | | R644 | 1-243-011-11 | CEMENTED 2.2 5% | 5W F |
| | | <TRANSISTOR> | | R645 | 1-215-865-11 | METAL OXIDE 220 5% | 1W F |
| | | | | R646 | 1-249-429-11 | CARBON 10K 5% | 1/4W |
| Q602 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | | R647 | 1-249-429-11 | CARBON 10K 5% | 1/4W |
| Q603 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | | R648 | 1-220-778-11 | FUSIBLE 0.1 10% | 1/2W F |
| Q604 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | | R649 | 1-218-642-11 | METAL OXIDE 100K 5% | 1W F |
| Q605 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | | R650 | 1-218-642-11 | METAL OXIDE 100K 5% | 1W F |
| Q606 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | | R658 | 1-215-886-11 | METAL OXIDE 100 5% | 2W F |
| Q607 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | | R659 | 1-260-306-51 | CARBON 15 5% | 1/2W |
| Q610 | 8-729-041-65 | TRANSISTOR 2SK2195F04 | | R660 | 1-260-306-51 | CARBON 15 5% | 1/2W |
| Q615 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | | R661 | 1-249-389-11 | CARBON 4.7 5% | 1/4W F |
| Q640 | 8-729-039-65 | TRANSISTOR MX0541B-F | | R664 | 1-215-479-00 | METAL 270K 1% | 1/4W |
| Q641 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | | R665 | 1-215-461-00 | METAL 47K 1% | 1/4W |
| Q683 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | | R666 | 1-249-417-11 | CARBON 1K 5% | 1/4W |
| | | <RESISTOR> | | R667 | 1-249-421-11 | CARBON 2.2K 5% | 1/4W |
| R601 | 1-249-425-11 | CARBON 4.7K 5% | 1/4W | R668 | 1-249-421-11 | CARBON 2.2K 5% | 1/4W |
| R602 | 1-249-417-11 | CARBON 1K 5% | 1/4W | R669 | 1-249-429-11 | CARBON 10K 5% | 1/4W |
| R603 | 1-249-417-11 | CARBON 1K 5% | 1/4W | R670 | 1-247-815-91 | CARBON 220 5% | 1/4W |
| R604 | 1-215-865-11 | METAL OXIDE 220 5% | 1W F | R671 | 1-260-288-11 | CARBON 0.47 5% | 1/2W |
| R606 | 1-249-389-11 | CARBON 4.7 5% | 1/4W | R685 | 1-249-425-11 | CARBON 4.7K 5% | 1/4W |
| | | | | R686 | 1-249-417-11 | CARBON 1K 5% | 1/4W |
| | | | | R687 | 1-249-417-11 | CARBON 1K 5% | 1/4W |
| | | | | R688 | 1-249-429-11 | CARBON 10K 5% | 1/4W |
| | | | | R702 | 1-249-441-11 | CARBON 100K 5% | 1/4W |
| | | | | R703 | 1-215-445-00 | METAL 10K 1% | 1/4W |
| | | | | R704 | 1-249-417-11 | CARBON 1K 5% | 1/4W |

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| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|------------------------------|------------------------------|-------------|---------|--------------|----------------------------------|--------------|
| R706 | 1-215-445-00 | METAL | 10K 1% 1/4W | Q823 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | |
| | | <RELAY> | | | | <RESISTOR> | |
| | R601 Δ 1-755-057-21 | RELAY | | R841 | 1-249-429-11 | CARBON | 10K 5% 1/4W |
| | RY602 | 1-755-057-11 | RELAY | R842 | 1-249-429-11 | CARBON | 10K 5% 1/4W |
| | | <TRANSFORMER> | | R843 | 1-249-429-11 | CARBON | 10K 5% 1/4W |
| | T601 Δ 1-429-180-11 | TRANSFORMER, LINE FILTER | | R844 | 1-247-863-91 | CARBON | 22K 5% 1/4W |
| | T602 Δ 1-431-624-11 | TRANSFORMER, CONVERTER (PIT) | | R845 | 1-249-401-11 | CARBON | 47 5% 1/4W |
| | T641 Δ 1-429-992-11 | TRANSFORMER, CONVERTER (PRT) | | R846 | 1-215-443-00 | METAL | 8.2K 1% 1/4W |
| | T660 Δ 1-431-625-11 | TRANSFORMER, CONVERTER (SRT) | | R848 | 1-249-429-11 | CARBON | 10K 5% 1/4W |
| | | <THERMISTOR> | | ***** | | | |
| | TH601 Δ 1-809-260-11 | THERMISTOR, POWER | | | | * A-1331-875-ACU BOARD, COMPLETE | |
| | | <VARISTOR> | | | | ***** | |
| | VDR601 Δ 1-801-268-51 | VARISTOR TNR14V471K660 | | | | <CAPACITOR> | |
| | | ***** | | C5801 | 1-163-009-11 | CERAMIC CHIP 0.001MF | 10% 50V |
| | | | | C5802 | 1-126-205-11 | ELECT CHIP 47MF | 20% 6.3V |
| | | | | C5803 | 1-163-243-11 | CERAMIC CHIP 47PF | 5% 50V |
| | | | | C5804 | 1-165-319-11 | CERAMIC CHIP 0.1MF | 50V |
| | | | | C5805 | 1-126-603-11 | ELECT CHIP 4.7MF | 20% 35V |
| | | | | C5809 | 1-124-779-00 | ELECT CHIP 10MF | 20% 16V |
| | | | | C5810 | 1-124-779-00 | ELECT CHIP 10MF | 20% 16V |
| | | | | C5811 | 1-165-319-11 | CERAMIC CHIP 0.1MF | 50V |
| | | | | C5812 | 1-165-319-11 | CERAMIC CHIP 0.1MF | 50V |
| | | | | C5813 | 1-124-779-00 | ELECT CHIP 10MF | 20% 16V |
| | | | | C5814 | 1-124-779-00 | ELECT CHIP 10MF | 20% 16V |
| | | | | C5815 | 1-165-319-11 | CERAMIC CHIP 0.1MF | 50V |
| | | | | C5816 | 1-165-319-11 | CERAMIC CHIP 0.1MF | 50V |
| | | | | C5817 | 1-124-779-00 | ELECT CHIP 10MF | 20% 16V |
| | | | | C5818 | 1-124-779-00 | ELECT CHIP 10MF | 20% 16V |
| | | | | C5819 | 1-124-779-00 | ELECT CHIP 10MF | 20% 16V |
| | | | | C5820 | 1-124-779-00 | ELECT CHIP 10MF | 20% 16V |
| | | | | | | <CONNECTOR> | |
| | | | | CN5801* | 1-564-512-11 | PLUG, CONNECTOR | 9P |
| | | | | | | <DIODE> | |
| | | | | D5802 | 8-719-404-49 | DIODE MA111 | |
| | | | | D5804 | 8-719-404-49 | DIODE MA111 | |
| | | | | | | <IC> | |
| | | | | IC5801 | 8-752-053-21 | IC CXA1211M | |
| | | | | IC5802 | 8-752-053-21 | IC CXA1211M | |
| | | | | | | <COIL> | |
| | | | | L5801 | 1-414-753-91 | INDUCTOR | 4.7UH |
| Q821 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | | | | | |
| Q822 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | | | | | |



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|--------------|--------------|----------------------|-------------|--------------------------------------|--------------|---------------------------------|-------------|
| <TRANSISTOR> | | | | R5843 | 1-216-025-91 | RES,CHIP 100 | 5% 1/10W |
| Q5801 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | R5844 | 1-216-683-11 | METAL CHIP 22K | 0.50% 1/10W |
| Q5802 | 8-729-402-84 | TRANSISTOR XN4601 | | R5845 | 1-216-025-91 | RES,CHIP 100 | 5% 1/10W |
| Q5803 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | R5848 | 1-216-073-00 | RES,CHIP 10K | 5% 1/10W |
| Q5804 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | R5851 | 1-216-639-11 | METAL CHIP 330 | 0.50% 1/10W |
| Q5805 | 8-729-925-79 | TRANSISTOR IMX3 | | R5852 | 1-216-661-11 | METAL CHIP 2.7K | 0.50% 1/10W |
| Q5806 | 8-729-925-79 | TRANSISTOR IMX3 | | R5853 | 1-216-295-91 | SHORT 0 | |
| Q5807 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | R5855 | 1-216-109-00 | RES,CHIP 330K | 5% 1/10W |
| Q5808 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | R5857 | 1-216-109-00 | RES,CHIP 330K | 5% 1/10W |
| Q5811 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | R5858 | 1-216-037-00 | RES,CHIP 330 | 5% 1/10W |
| Q5812 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | R5860 | 1-216-037-00 | RES,CHIP 330 | 5% 1/10W |
| Q5813 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | R5883 | 1-216-047-91 | RES,CHIP 820 | 5% 1/10W |
| Q5814 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | R5885 | 1-216-047-91 | RES,CHIP 820 | 5% 1/10W |
| Q5816 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | <VARIABLE RESISTOR> | | | |
| Q5818 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | RV5803 | 1-237-412-11 | RES, VAR, CARBON 10K (R-V GAIN) | |
| <RESISTOR> | | | | RV5804 | 1-237-412-11 | RES, VAR, CARBON 10K (G-V GAIN) | |
| R5801 | 1-216-295-91 | SHORT 0 | | RV5805 | 1-237-412-11 | RES, VAR, CARBON 10K (R-H GAIN) | |
| R5802 | 1-216-295-91 | SHORT 0 | | RV5806 | 1-237-412-11 | RES, VAR, CARBON 10K (G-H GAIN) | |
| R5803 | 1-216-295-91 | SHORT 0 | | <SWITCH> | | | |
| R5804 | 1-216-295-91 | SHORT 0 | | SW5801 | 1-571-674-11 | SWITCH, SLIDE (UP/DOWN SELECT) | |
| R5805 | 1-216-295-91 | SHORT 0 | | SW5802 | 1-571-674-11 | SWITCH, SLIDE (UP/DOWN SELECT) | |
| R5806 | 1-216-059-00 | RES,CHIP 2.7K | 5% 1/10W | ***** | | | |
| R5807 | 1-216-059-00 | RES,CHIP 2.7K | 5% 1/10W | * A-1335-110-AC BOARD, COMPLETE | | | |
| R5808 | 1-216-073-00 | RES,CHIP 10K | 5% 1/10W | ***** | | | |
| R5809 | 1-216-073-00 | RES,CHIP 10K | 5% 1/10W | 4-382-854-01 SCREW (M3X8), P, SW (+) | | | |
| R5810 | 1-216-684-91 | METAL CHIP 24K | 0.50% 1/10W | <CAPACITOR> | | | |
| R5811 | 1-216-677-11 | METAL CHIP 12K | 0.50% 1/10W | C5001 | 1-163-021-91 | CERAMIC CHIP 0.01MF 10% | 50V |
| R5812 | 1-216-295-91 | SHORT 0 | | C5002 | 1-104-664-11 | ELECT 47MF 20% | 10V |
| R5813 | 1-216-059-00 | RES,CHIP 2.7K | 5% 1/10W | C5003 | 1-163-251-11 | CERAMIC CHIP 100PF 5% | 50V |
| R5814 | 1-216-085-00 | RES,CHIP 33K | 5% 1/10W | C5004 | 1-164-004-11 | CERAMIC CHIP 0.1MF 10% | 25V |
| R5815 | 1-216-295-91 | SHORT 0 | | C5005 | 1-126-962-11 | ELECT 3.3MF 20% | 50V |
| R5816 | 1-216-063-91 | RES,CHIP 3.9K | 5% 1/10W | C5006 | 1-164-182-11 | CERAMIC CHIP 0.0033MF 10% | 50V |
| R5817 | 1-216-059-00 | RES,CHIP 2.7K | 5% 1/10W | C5007 | 1-163-104-00 | CERAMIC CHIP 30PF 5% | 50V |
| R5818 | 1-216-295-91 | SHORT 0 | | C5008 | 1-163-009-11 | CERAMIC CHIP 0.001MF 10% | 50V |
| R5819 | 1-216-295-91 | SHORT 0 | | C5009 | 1-163-021-91 | CERAMIC CHIP 0.01MF 10% | 50V |
| R5820 | 1-216-065-91 | RES,CHIP 4.7K | 5% 1/10W | C5010 | 1-163-109-00 | CERAMIC CHIP 47PF 5% | 50V |
| R5821 | 1-216-065-91 | RES,CHIP 4.7K | 5% 1/10W | C5011 | 1-163-009-11 | CERAMIC CHIP 0.001MF 10% | 50V |
| R5822 | 1-216-057-00 | RES,CHIP 2.2K | 5% 1/10W | C5012 | 1-163-251-11 | CERAMIC CHIP 100PF 5% | 50V |
| R5823 | 1-216-065-91 | RES,CHIP 4.7K | 5% 1/10W | C5013 | 1-164-004-11 | CERAMIC CHIP 0.1MF 10% | 25V |
| R5824 | 1-216-065-91 | RES,CHIP 4.7K | 5% 1/10W | C5014 | 1-126-962-11 | ELECT 3.3MF 20% | 50V |
| R5825 | 1-216-683-11 | METAL CHIP 22K | 0.50% 1/10W | C5015 | 1-164-182-11 | CERAMIC CHIP 0.0033MF 10% | 50V |
| R5826 | 1-216-683-11 | METAL CHIP 22K | 0.50% 1/10W | C5016 | 1-163-108-00 | CERAMIC CHIP 43PF 5% | 50V |
| R5829 | 1-216-057-00 | RES,CHIP 2.2K | 5% 1/10W | C5017 | 1-163-009-11 | CERAMIC CHIP 0.001MF 10% | 50V |
| R5832 | 1-216-683-11 | METAL CHIP 22K | 0.50% 1/10W | C5018 | 1-163-021-91 | CERAMIC CHIP 0.01MF 10% | 50V |
| R5833 | 1-216-683-11 | METAL CHIP 22K | 0.50% 1/10W | C5019 | 1-164-182-11 | CERAMIC CHIP 0.0033MF 10% | 50V |
| R5834 | 1-216-025-91 | RES,CHIP 100 | 5% 1/10W | C5020 | 1-126-962-11 | ELECT 3.3MF 20% | 50V |
| R5835 | 1-216-049-91 | RES,CHIP 1K | 5% 1/10W | | | | |
| R5836 | 1-216-073-00 | RES,CHIP 10K | 5% 1/10W | | | | |
| R5837 | 1-216-639-11 | METAL CHIP 330 | 0.50% 1/10W | | | | |
| R5838 | 1-216-025-91 | RES,CHIP 100 | 5% 1/10W | | | | |
| R5839 | 1-216-049-91 | RES,CHIP 1K | 5% 1/10W | | | | |
| R5840 | 1-216-661-11 | METAL CHIP 2.7K | 0.50% 1/10W | | | | |
| R5841 | 1-216-295-91 | SHORT 0 | | | | | |
| R5842 | 1-216-081-00 | RES,CHIP 22K | 5% 1/10W | | | | |



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|---------------------|----------|---------|----------|---------------------------|--------------|
| C5021 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% | 25V | C5248 | 1-126-964-11 ELECT | 10MF 20% 50V |
| C5022 | 1-163-251-11 | CERAMIC CHIP 100PF | 5% | 50V | C5250 | 1-107-689-21 TANTAL. CHIP | 1MF 20% 35V |
| C5023 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% | 50V | C5251 | 1-107-689-21 TANTAL. CHIP | 1MF 20% 35V |
| C5024 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% | 50V | C5252 | 1-107-689-21 TANTAL. CHIP | 1MF 20% 35V |
| C5025 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% | 50V | C5260 | 1-165-319-11 CERAMIC CHIP | 0.1MF 50V |
| C5026 | 1-104-664-11 | ELECT | 47MF 20% | 10V | C5261 | 1-104-664-11 ELECT | 47MF 20% 25V |
| C5027 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% | 50V | C5401 | 1-163-031-11 CERAMIC CHIP | 0.01MF 50V |
| C5028 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% | 50V | C5420 | 1-165-319-11 CERAMIC CHIP | 0.1MF 50V |
| C5029 | 1-165-319-11 | CERAMIC CHIP 0.1MF | | 50V | C5421 | 1-104-664-11 ELECT | 47MF 20% 10V |
| C5030 | 1-104-664-11 | ELECT | 47MF 20% | 25V | C5422 | 1-165-319-11 CERAMIC CHIP | 0.1MF 50V |
| C5039 | 1-104-664-11 | ELECT | 47MF 20% | 25V | C5425 | 1-165-319-11 CERAMIC CHIP | 0.1MF 50V |
| C5040 | 1-163-251-11 | CERAMIC CHIP 100PF | 5% | 50V | C5426 | 1-165-319-11 CERAMIC CHIP | 0.1MF 50V |
| C5041 | 1-163-251-11 | CERAMIC CHIP 100PF | 5% | 50V | C5427 | 1-165-319-11 CERAMIC CHIP | 0.1MF 50V |
| C5042 | 1-163-251-11 | CERAMIC CHIP 100PF | 5% | 50V | C5428 | 1-165-319-11 CERAMIC CHIP | 0.1MF 50V |
| C5043 | 1-163-251-11 | CERAMIC CHIP 100PF | 5% | 50V | C5429 | 1-165-319-11 CERAMIC CHIP | 0.1MF 50V |
| C5044 | 1-163-251-11 | CERAMIC CHIP 100PF | 5% | 50V | C5430 | 1-165-319-11 CERAMIC CHIP | 0.1MF 50V |
| C5045 | 1-163-251-11 | CERAMIC CHIP 100PF | 5% | 50V | C5431 | 1-165-319-11 CERAMIC CHIP | 0.1MF 50V |
| C5046 | 1-163-251-11 | CERAMIC CHIP 100PF | 5% | 50V | C5432 | 1-165-319-11 CERAMIC CHIP | 0.1MF 50V |
| C5047 | 1-163-251-11 | CERAMIC CHIP 100PF | 5% | 50V | C5440 | 1-104-664-11 ELECT | 47MF 20% 10V |
| C5048 | 1-163-251-11 | CERAMIC CHIP 100PF | 5% | 50V | C5441 | 1-165-319-11 CERAMIC CHIP | 0.1MF 50V |
| C5049 | 1-163-251-11 | CERAMIC CHIP 100PF | 5% | 50V | C5442 | 1-165-319-11 CERAMIC CHIP | 0.1MF 50V |
| C5050 | 1-163-251-11 | CERAMIC CHIP 100PF | 5% | 50V | C5443 | 1-165-319-11 CERAMIC CHIP | 0.1MF 50V |
| C5051 | 1-163-259-91 | CERAMIC CHIP 220PF | 5% | 50V | C5444 | 1-165-319-11 CERAMIC CHIP | 0.1MF 50V |
| C5054 | 1-163-259-91 | CERAMIC CHIP 220PF | 5% | 50V | C5445 | 1-165-319-11 CERAMIC CHIP | 0.1MF 50V |
| C5055 | 1-163-259-91 | CERAMIC CHIP 220PF | 5% | 50V | C5446 | 1-104-664-11 ELECT | 47MF 20% 25V |
| C5056 | 1-163-259-91 | CERAMIC CHIP 220PF | 5% | 50V | C5447 | 1-165-319-11 CERAMIC CHIP | 0.1MF 50V |
| C5057 | 1-163-259-91 | CERAMIC CHIP 220PF | 5% | 50V | C5448 | 1-126-964-11 ELECT | 10MF 20% 50V |
| C5058 | 1-163-259-91 | CERAMIC CHIP 220PF | 5% | 50V | C5450 | 1-107-689-21 TANTAL. CHIP | 1MF 20% 35V |
| C5059 | 1-163-259-91 | CERAMIC CHIP 220PF | 5% | 50V | C5451 | 1-107-689-21 TANTAL. CHIP | 1MF 20% 35V |
| C5073 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% | 50V | C5452 | 1-107-689-21 TANTAL. CHIP | 1MF 20% 35V |
| C5201 | 1-165-319-11 | CERAMIC CHIP 0.1MF | | 50V | C5460 | 1-165-319-11 CERAMIC CHIP | 0.1MF 50V |
| C5202 | 1-165-319-11 | CERAMIC CHIP 0.1MF | | 50V | C5461 | 1-104-664-11 ELECT | 47MF 20% 25V |
| C5203 | 1-104-664-11 | ELECT | 47MF 20% | 25V | C5601 | 1-104-664-11 ELECT | 47MF 20% 16V |
| C5204 | 1-165-319-11 | CERAMIC CHIP 0.1MF | | 50V | C5602 | 1-165-319-11 CERAMIC CHIP | 0.1MF 50V |
| C5205 | 1-104-664-11 | ELECT | 47MF 20% | 25V | C5620 | 1-165-319-11 CERAMIC CHIP | 0.1MF 50V |
| C5209 | 1-104-664-11 | ELECT | 47MF 20% | 25V | C5621 | 1-104-664-11 ELECT | 47MF 20% 10V |
| C5210 | 1-104-664-11 | ELECT | 47MF 20% | 25V | C5622 | 1-165-319-11 CERAMIC CHIP | 0.1MF 50V |
| C5220 | 1-165-319-11 | CERAMIC CHIP 0.1MF | | 50V | C5625 | 1-165-319-11 CERAMIC CHIP | 0.1MF 50V |
| C5221 | 1-104-664-11 | ELECT | 47MF 20% | 10V | C5626 | 1-165-319-11 CERAMIC CHIP | 0.1MF 50V |
| C5222 | 1-165-319-11 | CERAMIC CHIP 0.1MF | | 50V | C5627 | 1-165-319-11 CERAMIC CHIP | 0.1MF 50V |
| C5225 | 1-165-319-11 | CERAMIC CHIP 0.1MF | | 50V | C5628 | 1-165-319-11 CERAMIC CHIP | 0.1MF 50V |
| C5226 | 1-165-319-11 | CERAMIC CHIP 0.1MF | | 50V | C5629 | 1-165-319-11 CERAMIC CHIP | 0.1MF 50V |
| C5227 | 1-165-319-11 | CERAMIC CHIP 0.1MF | | 50V | C5630 | 1-165-319-11 CERAMIC CHIP | 0.1MF 50V |
| C5228 | 1-165-319-11 | CERAMIC CHIP 0.1MF | | 50V | C5631 | 1-165-319-11 CERAMIC CHIP | 0.1MF 50V |
| C5229 | 1-165-319-11 | CERAMIC CHIP 0.1MF | | 50V | C5632 | 1-165-319-11 CERAMIC CHIP | 0.1MF 50V |
| C5230 | 1-165-319-11 | CERAMIC CHIP 0.1MF | | 50V | C5633 | 1-165-319-11 CERAMIC CHIP | 0.1MF 50V |
| C5231 | 1-165-319-11 | CERAMIC CHIP 0.1MF | | 50V | C5640 | 1-104-664-11 ELECT | 47MF 20% 10V |
| C5232 | 1-165-319-11 | CERAMIC CHIP 0.1MF | | 50V | C5641 | 1-165-319-11 CERAMIC CHIP | 0.1MF 50V |
| C5240 | 1-104-664-11 | ELECT | 47MF 20% | 10V | C5642 | 1-165-319-11 CERAMIC CHIP | 0.1MF 50V |
| C5241 | 1-165-319-11 | CERAMIC CHIP 0.1MF | | 50V | C5643 | 1-165-319-11 CERAMIC CHIP | 0.1MF 50V |
| C5242 | 1-165-319-11 | CERAMIC CHIP 0.1MF | | 50V | C5644 | 1-165-319-11 CERAMIC CHIP | 0.1MF 50V |
| C5243 | 1-165-319-11 | CERAMIC CHIP 0.1MF | | 50V | C5645 | 1-165-319-11 CERAMIC CHIP | 0.1MF 50V |
| C5244 | 1-165-319-11 | CERAMIC CHIP 0.1MF | | 50V | C5646 | 1-104-664-11 ELECT | 47MF 20% 25V |
| C5245 | 1-165-319-11 | CERAMIC CHIP 0.1MF | | 50V | C5647 | 1-165-319-11 CERAMIC CHIP | 0.1MF 50V |
| C5246 | 1-104-664-11 | ELECT | 47MF 20% | 25V | C5648 | 1-126-964-11 ELECT | 10MF 20% 50V |
| C5247 | 1-165-319-11 | CERAMIC CHIP 0.1MF | | 50V | C5650 | 1-107-689-21 TANTAL. CHIP | 1MF 20% 35V |



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|-----------------------|--------|---------|--------------|-----------------------|--------|
| L5002 | 1-427-791-21 | TRANSFORMER, DETECTOR | | R5035 | 1-216-085-00 | RES,CHIP 33K 5% | 1/10W |
| L5003 | 1-427-790-21 | TRANSFORMER, DETECTOR | | R5036 | 1-216-071-00 | RES,CHIP 8.2K 5% | 1/10W |
| L5004 | 1-427-792-21 | TRANSFORMER, DETECTOR | | | | | |
| L5005 | 1-410-470-11 | INDUCTOR 10UH | | R5037 | 1-216-067-00 | RES,CHIP 5.6K 5% | 1/10W |
| | | | | R5038 | 1-216-079-00 | RES,CHIP 18K 5% | 1/10W |
| L5202 | 1-410-470-11 | INDUCTOR 10UH | | R5039 | 1-216-049-91 | RES,CHIP 1K 5% | 1/10W |
| L5602 | 1-410-470-11 | INDUCTOR 10UH | | R5040 | 1-216-073-00 | RES,CHIP 10K 5% | 1/10W |
| L5801 | 1-414-753-91 | INDUCTOR 4.7UH | | R5041 | 1-216-121-91 | RES,CHIP 1M 5% | 1/10W |
| L5901 | 1-414-753-91 | INDUCTOR 4.7UH | | | | | |
| | | | | R5042 | 1-216-121-91 | RES,CHIP 1M 5% | 1/10W |
| | | | | R5043 | 1-216-085-00 | RES,CHIP 33K 5% | 1/10W |
| | | | | R5044 | 1-216-085-00 | RES,CHIP 33K 5% | 1/10W |
| | | | | R5045 | 1-216-121-91 | RES,CHIP 1M 5% | 1/10W |
| | | | | R5046 | 1-216-121-91 | RES,CHIP 1M 5% | 1/10W |
| | | | | | | | |
| | | | | R5047 | 1-216-073-00 | RES,CHIP 10K 5% | 1/10W |
| | | | | R5048 | 1-216-689-11 | RES,CHIP 39K 5% | 1/10W |
| | | | | R5049 | 1-216-049-91 | RES,CHIP 1K 5% | 1/10W |
| | | | | R5050 | 1-216-067-00 | RES,CHIP 5.6K 5% | 1/10W |
| | | | | R5051 | 1-216-075-00 | RES,CHIP 12K 5% | 1/10W |
| | | | | | | | |
| | | | | R5052 | 1-216-121-91 | RES,CHIP 1M 5% | 1/10W |
| | | | | R5053 | 1-216-121-91 | RES,CHIP 1M 5% | 1/10W |
| | | | | R5055 | 1-216-295-91 | SHORT 0 | |
| | | | | R5056 | 1-216-295-91 | SHORT 0 | |
| | | | | R5057 | 1-216-295-91 | SHORT 0 | |
| | | | | | | | |
| | | | | R5058 | 1-216-295-91 | SHORT 0 | |
| | | | | R5059 | 1-216-295-91 | SHORT 0 | |
| | | | | R5060 | 1-216-295-91 | SHORT 0 | |
| | | | | R5063 | 1-216-121-91 | RES,CHIP 1M 5% | 1/10W |
| | | | | R5064 | 1-216-121-91 | RES,CHIP 1M 5% | 1/10W |
| | | | | | | | |
| | | | | R5065 | 1-216-121-91 | RES,CHIP 1M 5% | 1/10W |
| | | | | R5066 | 1-216-121-91 | RES,CHIP 1M 5% | 1/10W |
| | | | | R5071 | 1-216-031-00 | RES,CHIP 180 5% | 1/10W |
| | | | | R5072 | 1-216-031-00 | RES,CHIP 180 5% | 1/10W |
| | | | | R5073 | 1-216-019-00 | RES,CHIP 56 5% | 1/10W |
| | | | | | | | |
| | | | | R5074 | 1-216-019-00 | RES,CHIP 56 5% | 1/10W |
| | | | | R5087 | 1-216-049-91 | RES,CHIP 1K 5% | 1/10W |
| | | | | R5089 | 1-216-295-91 | SHORT 0 | |
| | | | | R5092 | 1-216-017-91 | RES,CHIP 47 5% | 1/10W |
| | | | | R5093 | 1-216-017-91 | RES,CHIP 47 5% | 1/10W |
| | | | | | | | |
| | | | | R5094 | 1-216-017-91 | RES,CHIP 47 5% | 1/10W |
| | | | | R5096 | 1-216-025-91 | RES,CHIP 100 5% | 1/10W |
| | | | | R5097 | 1-216-025-91 | RES,CHIP 100 5% | 1/10W |
| | | | | R5098 | 1-216-085-00 | RES,CHIP 33K 5% | 1/10W |
| | | | | R5099 | 1-216-065-91 | RES,CHIP 4.7K 5% | 1/10W |
| | | | | | | | |
| | | | | R5100 | 1-216-025-91 | RES,CHIP 100 5% | 1/10W |
| | | | | R5101 | 1-216-065-91 | RES,CHIP 4.7K 5% | 1/10W |
| | | | | R5103 | 1-216-065-91 | RES,CHIP 4.7K 5% | 1/10W |
| | | | | R5107 | 1-216-049-91 | RES,CHIP 1K 5% | 1/10W |
| | | | | R5108 | 1-216-664-11 | METAL CHIP 3.6K 0.50% | 1/10W |
| | | | | | | | |
| | | | | R5109 | 1-216-631-11 | METAL CHIP 150 0.50% | 1/10W |
| | | | | R5110 | 1-216-641-11 | METAL CHIP 390 0.50% | 1/10W |
| | | | | R5123 | 1-216-295-91 | SHORT 0 | |
| | | | | R5130 | 1-216-295-91 | SHORT 0 | |
| | | | | R5202 | 1-216-398-11 | METAL OXIDE 5.6 5% | 3W F |
| | | | | | | | |
| | | | | R5210 | 1-216-001-00 | RES,CHIP 10 5% | 1/10W |
| | | | | R5211 | 1-216-049-91 | RES,CHIP 1K 5% | 1/10W |
| | | | | R5220 | 1-216-067-00 | RES,CHIP 5.6K 5% | 1/10W |
| | | | | R5221 | 1-216-051-00 | RES,CHIP 1.2K 5% | 1/10W |
| | | | | | | | |



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|-------------|------------------|---------|--------------|-------------|------------------|
| R5226 | 1-216-295-91 | SHORT | 0 | R5454 | 1-216-295-91 | SHORT | 0 |
| R5228 | 1-216-069-00 | RES,CHIP | 6.8K 5% 1/10W | R5455 | 1-216-295-91 | SHORT | 0 |
| R5230 | 1-216-295-91 | SHORT | 0 | R5460 | 1-216-295-91 | SHORT | 0 |
| R5231 | 1-216-295-91 | SHORT | 0 | R5461 | 1-216-295-91 | SHORT | 0 |
| R5232 | 1-216-295-91 | SHORT | 0 | R5470 | 1-216-001-00 | RES,CHIP | 10 5% 1/10W |
| R5233 | 1-216-295-91 | SHORT | 0 | R5471 | 1-216-001-00 | RES,CHIP | 10 5% 1/10W |
| R5234 | 1-216-660-11 | METAL CHIP | 2.4K 0.50% 1/10W | R5472 | 1-216-001-00 | RES,CHIP | 10 5% 1/10W |
| R5235 | 1-216-666-11 | METAL CHIP | 4.3K 0.50% 1/10W | R5473 | 1-216-001-00 | RES,CHIP | 10 5% 1/10W |
| R5236 | 1-216-295-91 | SHORT | 0 | R5474 | 1-216-001-00 | RES,CHIP | 10 5% 1/10W |
| R5237 | 1-216-057-00 | RES,CHIP | 2.2K 5% 1/10W | R5480 | 1-216-037-00 | RES,CHIP | 330 5% 1/10W |
| R5240 | 1-216-295-91 | SHORT | 0 | R5483 | 1-216-001-00 | RES,CHIP | 10 5% 1/10W |
| R5241 | 1-216-057-00 | RES,CHIP | 2.2K 5% 1/10W | R5484 | 1-216-295-91 | SHORT | 0 |
| R5244 | 1-216-295-91 | SHORT | 0 | R5490 | 1-216-001-00 | RES,CHIP | 10 5% 1/10W |
| R5250 | 1-216-111-00 | RES,CHIP | 390K 5% 1/10W | R5524 | 1-216-295-91 | SHORT | 0 |
| R5251 | 1-216-111-00 | RES,CHIP | 390K 5% 1/10W | R5610 | 1-216-001-00 | RES,CHIP | 10 5% 1/10W |
| R5252 | 1-216-111-00 | RES,CHIP | 390K 5% 1/10W | R5611 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W |
| R5253 | 1-216-295-91 | SHORT | 0 | R5620 | 1-216-067-00 | RES,CHIP | 5.6K 5% 1/10W |
| R5254 | 1-216-295-91 | SHORT | 0 | R5621 | 1-216-051-00 | RES,CHIP | 1.2K 5% 1/10W |
| R5255 | 1-216-295-91 | SHORT | 0 | R5626 | 1-216-295-91 | SHORT | 0 |
| R5260 | 1-216-295-91 | SHORT | 0 | R5628 | 1-216-069-00 | RES,CHIP | 6.8K 5% 1/10W |
| R5261 | 1-216-295-91 | SHORT | 0 | R5630 | 1-216-295-91 | SHORT | 0 |
| R5270 | 1-216-001-00 | RES,CHIP | 10 5% 1/10W | R5631 | 1-216-295-91 | SHORT | 0 |
| R5271 | 1-216-001-00 | RES,CHIP | 10 5% 1/10W | R5632 | 1-216-295-91 | SHORT | 0 |
| R5272 | 1-216-001-00 | RES,CHIP | 10 5% 1/10W | R5633 | 1-216-295-91 | SHORT | 0 |
| R5273 | 1-216-001-00 | RES,CHIP | 10 5% 1/10W | R5634 | 1-216-660-11 | METAL CHIP | 2.4K 0.50% 1/10W |
| R5274 | 1-216-001-00 | RES,CHIP | 10 5% 1/10W | R5635 | 1-216-666-11 | METAL CHIP | 4.3K 0.50% 1/10W |
| R5280 | 1-216-037-00 | RES,CHIP | 330 5% 1/10W | R5636 | 1-216-295-91 | SHORT | 0 |
| R5283 | 1-216-001-00 | RES,CHIP | 10 5% 1/10W | R5637 | 1-216-057-00 | RES,CHIP | 2.2K 5% 1/10W |
| R5284 | 1-216-295-91 | SHORT | 0 | R5640 | 1-216-295-91 | SHORT | 0 |
| R5290 | 1-216-001-00 | RES,CHIP | 10 5% 1/10W | R5641 | 1-216-057-00 | RES,CHIP | 2.2K 5% 1/10W |
| R5324 | 1-216-295-91 | SHORT | 0 | R5644 | 1-216-295-91 | SHORT | 0 |
| R5401 | 1-216-077-00 | RES,CHIP | 15K 5% 1/10W | R5650 | 1-216-111-00 | RES,CHIP | 390K 5% 1/10W |
| R5402 | 1-216-085-00 | RES,CHIP | 33K 5% 1/10W | R5651 | 1-216-111-00 | RES,CHIP | 390K 5% 1/10W |
| R5403 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W | R5652 | 1-216-111-00 | RES,CHIP | 390K 5% 1/10W |
| R5410 | 1-216-001-00 | RES,CHIP | 10 5% 1/10W | R5653 | 1-216-295-91 | SHORT | 0 |
| R5411 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | R5654 | 1-216-295-91 | SHORT | 0 |
| R5420 | 1-216-067-00 | RES,CHIP | 5.6K 5% 1/10W | R5655 | 1-216-295-91 | SHORT | 0 |
| R5421 | 1-216-051-00 | RES,CHIP | 1.2K 5% 1/10W | R5660 | 1-216-295-91 | SHORT | 0 |
| R5428 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W | R5661 | 1-216-295-91 | SHORT | 0 |
| R5429 | 1-216-057-00 | RES,CHIP | 2.2K 5% 1/10W | R5670 | 1-216-001-00 | RES,CHIP | 10 5% 1/10W |
| R5430 | 1-216-295-91 | SHORT | 0 | R5671 | 1-216-001-00 | RES,CHIP | 10 5% 1/10W |
| R5431 | 1-216-295-91 | SHORT | 0 | R5672 | 1-216-001-00 | RES,CHIP | 10 5% 1/10W |
| R5432 | 1-216-295-91 | SHORT | 0 | R5673 | 1-216-001-00 | RES,CHIP | 10 5% 1/10W |
| R5433 | 1-216-295-91 | SHORT | 0 | R5674 | 1-216-001-00 | RES,CHIP | 10 5% 1/10W |
| R5434 | 1-216-660-11 | METAL CHIP | 2.4K 0.50% 1/10W | R5680 | 1-216-037-00 | RES,CHIP | 330 5% 1/10W |
| R5435 | 1-216-666-11 | METAL CHIP | 4.3K 0.50% 1/10W | R5683 | 1-216-001-00 | RES,CHIP | 10 5% 1/10W |
| R5436 | 1-216-295-91 | SHORT | 0 | R5684 | 1-216-295-91 | SHORT | 0 |
| R5437 | 1-216-057-00 | RES,CHIP | 2.2K 5% 1/10W | R5687 | 1-216-067-00 | RES,CHIP | 5.6K 5% 1/10W |
| R5440 | 1-216-295-91 | SHORT | 0 | R5688 | 1-216-067-00 | RES,CHIP | 5.6K 5% 1/10W |
| R5441 | 1-216-057-00 | RES,CHIP | 2.2K 5% 1/10W | R5690 | 1-216-001-00 | RES,CHIP | 10 5% 1/10W |
| R5444 | 1-216-295-91 | SHORT | 0 | R5691 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W |
| R5445 | 1-216-295-91 | SHORT | 0 | R5692 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W |
| R5450 | 1-216-111-00 | RES,CHIP | 390K 5% 1/10W | R5693 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W |
| R5451 | 1-216-111-00 | RES,CHIP | 390K 5% 1/10W | R5694 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W |
| R5452 | 1-216-111-00 | RES,CHIP | 390K 5% 1/10W | R5699 | 1-216-295-91 | SHORT | 0 |
| R5453 | 1-216-295-91 | SHORT | 0 | R5700 | 1-216-295-91 | SHORT | 0 |

KL-W7000A/W9000A

RM-Y980



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|------------------------------|--------------------|---------|--------------|-----------------------|---------------|
| RV5602 | 1-241-394-11 | RES, ADJ, METAL GLAZE | 4.7K (B-V COM) | D8304 | 8-719-016-73 | DIODE STZ6.8T | |
| RV5603 | 1-241-394-11 | RES, ADJ, METAL GLAZE | 4.7K (B-L GAIN) | D8305 | 8-719-016-73 | DIODE STZ6.8T | |
| RV5605 | 1-241-394-11 | RES, ADJ, METAL GLAZE | 4.7K (B-GAIN) | | | <FERRITE BEAD> | |
| | | <SWITCH> | | FB131 | 1-414-233-22 | INDUCTOR CHIP | |
| SW5901 | 1-571-674-11 | SWITCH, SLIDE (CLAMP SELECT) | | FB132 | 1-414-233-22 | INDUCTOR CHIP | |
| SW5902 | 1-571-674-11 | SWITCH, SLIDE (CLAMP SELECT) | | FB133 | 1-414-233-22 | INDUCTOR CHIP | |
| | | <THERMISTOR> | | FB134 | 1-216-295-91 | SHORT | 0 |
| TH5401 | 1-806-715-11 | THERMISTOR | | FB135 | 1-414-233-22 | INDUCTOR CHIP | |
| | | | | FB136 | 1-414-233-22 | INDUCTOR CHIP | |
| | | | | FB137 | 1-414-233-22 | INDUCTOR CHIP | |
| | | | | FB138 | 1-414-233-22 | INDUCTOR CHIP | |
| | | | | FB139 | 1-216-295-91 | SHORT | 0 |
| | | | | FB140 | 1-414-233-22 | INDUCTOR CHIP | |
| | | | | | | <FILTER> | |
| | | | | FL8001 | 1-233-512-21 | FERRITE | 37UH |
| | | | | FL8002 | 1-233-512-21 | FERRITE | 37UH |
| | | | | FL8003 | 1-233-512-21 | FERRITE | 37UH |
| | | | | FL8004 | 1-233-512-21 | FERRITE | 37UH |
| | | | | FL8005 | 1-233-512-21 | FERRITE | 37UH |
| | | | | FL8006 | 1-239-896-12 | FILTER, EMI (SMD) | |
| | | | | FL8007 | 1-239-896-12 | FILTER, EMI (SMD) | |
| | | | | FL8008 | 1-239-896-12 | FILTER, EMI (SMD) | |
| | | | | | | <IC> | |
| | | | | IC8001 | 8-742-088-10 | HYB IC SBX1780-51(10) | |
| | | | | | | <JACK> | |
| | | | | J8001 | 1-565-839-11 | PIN JACK BLOCK 3P | |
| | | | | J8002 | 1-774-753-11 | JACK | |
| | | | | | | <RESISTOR> | |
| | | | | R8002 | 1-216-037-00 | RES,CHIP | 330 5% 1/10W |
| | | | | R8003 | 1-216-037-00 | RES,CHIP | 330 5% 1/10W |
| | | | | R8004 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W |
| | | | | R8006 | 1-216-065-91 | RES,CHIP | 4.7K 5% 1/10W |
| | | | | R8008 | 1-216-055-00 | RES,CHIP | 1.8K 5% 1/10W |
| | | | | R8009 | 1-216-065-91 | RES,CHIP | 4.7K 5% 1/10W |
| | | | | R8010 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W |
| | | | | R8011 | 1-216-055-00 | RES,CHIP | 1.8K 5% 1/10W |
| | | | | R8012 | 1-216-045-00 | RES,CHIP | 680 5% 1/10W |
| | | | | R8013 | 1-216-295-91 | SHORT | 0 |
| | | | | R8014 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W |
| | | | | R8015 | 1-216-045-00 | RES,CHIP | 680 5% 1/10W |
| | | | | R8016 | 1-216-295-91 | SHORT | 0 |
| | | | | R8019 | 1-216-295-91 | SHORT | 0 |
| | | | | R8020 | 1-216-075-00 | RES,CHIP | 12K 5% 1/10W |
| | | | | R8021 | 1-216-105-91 | RES,CHIP | 220K 5% 1/10W |
| | | | | R8022 | 1-216-105-91 | RES,CHIP | 220K 5% 1/10W |
| | | | | R8101 | 1-216-017-91 | RES,CHIP | 47 5% 1/10W |
| | | | | R8102 | 1-216-017-91 | RES,CHIP | 47 5% 1/10W |
| | | | | | | <DIODE> | |
| D8002 | 8-719-812-43 | DIODE TLG124A | | | | | |
| D8005 | 8-719-812-41 | DIODE TLR124 | | | | | |
| D8007 | 8-719-812-44 | DIODE TLO124 | | | | | |
| D8008 | 8-719-016-73 | DIODE STZ6.8T | | | | | |
| D8009 | 8-719-016-73 | DIODE STZ6.8T | | | | | |
| D8011 | 8-719-016-73 | DIODE STZ6.8T | | | | | |
| D8017 | 8-719-016-73 | DIODE STZ6.8T | | | | | |
| D8018 | 8-719-016-73 | DIODE STZ6.8T | | | | | |
| D8301 | 8-719-016-73 | DIODE STZ6.8T | | | | | |
| D8302 | 8-719-016-73 | DIODE STZ6.8T | | | | | |
| D8303 | 8-719-016-73 | DIODE STZ6.8T | | | | | |



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|----------------------------------|-----------------|-------------------------------|---------------|---------|--------------|--------------------------|--------|
| R8103 | 1-216-029-00 | RES,CHIP | 150 5% 1/10W | C101 | 1-128-551-11 | ELECT 22MF 20% | 25V |
| R8104 | 1-216-029-00 | RES,CHIP | 150 5% 1/10W | C102 | 1-128-551-11 | ELECT 22MF 20% | 25V |
| R8105 | 1-216-029-00 | RES,CHIP | 150 5% 1/10W | C103 | 1-128-551-11 | ELECT 22MF 20% | 25V |
| R8106 | 1-216-029-00 | RES,CHIP | 150 5% 1/10W | C104 | 1-164-346-11 | CERAMIC CHIP 1MF | 16V |
| R8107 | 1-216-029-00 | RES,CHIP | 150 5% 1/10W | C105 | 1-164-346-11 | CERAMIC CHIP 1MF | 16V |
| R8108 | 1-216-029-00 | RES,CHIP | 150 5% 1/10W | C107 | 1-163-021-91 | CERAMIC CHIP 0.01MF 10% | 50V |
| R8121 | 1-216-022-00 | RES,CHIP | 75 5% 1/10W | C108 | 1-104-664-11 | ELECT 47MF 20% | 16V |
| R8122 | 1-216-105-91 | RES,CHIP | 220K 5% 1/10W | C109 | 1-163-021-91 | CERAMIC CHIP 0.01MF 10% | 50V |
| R8123 | 1-216-105-91 | RES,CHIP | 220K 5% 1/10W | C110 | 1-163-021-91 | CERAMIC CHIP 0.01MF 10% | 50V |
| <SWITCH> | | | | C111 | 1-104-664-11 | ELECT 47MF 20% | 16V |
| S8001 | 1-571-731-11 | SWITCH, TACTIL (INPUT SELECT) | | C112 | 1-163-021-91 | CERAMIC CHIP 0.01MF 10% | 50V |
| S8003 | 1-571-731-11 | SWITCH, TACTIL (ENTER) | | C113 | 1-163-009-11 | CERAMIC CHIP 0.001MF 10% | 50V |
| S8004 | 1-571-731-11 | SWITCH, TACTIL (→) | | C114 | 1-104-664-11 | ELECT 47MF 20% | 16V |
| S8005 | 1-571-731-11 | SWITCH, TACTIL (MENU) | | C115 | 1-163-021-91 | CERAMIC CHIP 0.01MF 10% | 50V |
| S8007 | 1-571-731-11 | SWITCH, TACTIL (←) | | C116 | 1-164-346-11 | CERAMIC CHIP 1MF | 16V |
| S8008 | 1-571-731-11 | SWITCH, TACTIL (VOL-) | | C117 | 1-164-346-11 | CERAMIC CHIP 1MF | 16V |
| S8009 | 1-571-731-11 | SWITCH, TACTIL (↓) | | C118 | 1-164-346-11 | CERAMIC CHIP 1MF | 16V |
| S8010 | 1-571-731-11 | SWITCH, TACTIL(VOL+) | | C301 | 1-164-489-11 | CERAMIC CHIP 0.22MF 10% | 16V |
| S8011 | 1-571-731-11 | SWITCH, TACTIL (↑) | | C302 | 1-126-959-11 | ELECT 0.47MF 20% | 50V |
| S8012 | 1-571-731-11 | SWITCH, TACTIL (SIZE/CENTER) | | C303 | 1-126-959-11 | ELECT 0.47MF 20% | 50V |
| S8013 | 1-571-731-11 | SWITCH, TACTIL (RESET) | | C304 | 1-126-960-11 | ELECT 1MF 20% | 50V |
| ***** | | | | C305 | 1-126-960-11 | ELECT 1MF 20% | 50V |
| * A-1372-565-AHB BOARD, COMPLETE | | | | C306 | 1-109-889-11 | ELECT 1MF 20% | 50V |
| ***** | | | | C307 | 1-164-489-11 | CERAMIC CHIP 0.22MF 10% | 16V |
| <CONNECTOR> | | | | C308 | 1-126-925-11 | ELECT 470MF 20% | 10V |
| CN8031*1-564-518-11 | PLUG, CONNECTOR | 3P | | C309 | 1-126-959-11 | ELECT 0.47MF 20% | 50V |
| <SWITCH> | | | | C310 | 1-126-959-11 | ELECT 0.47MF 20% | 50V |
| S8031 | 1-570-826-11 | SWITCH, PUSH (1 KEY) (POWER) | | C313 | 1-126-925-11 | ELECT 470MF 20% | 10V |
| ***** | | | | C314 | 1-104-664-11 | ELECT 47MF 20% | 16V |
| * A-1373-713-AU BOARD COMPLETE | | | | C315 | 1-128-551-11 | ELECT 22MF 20% | 25V |
| ***** | | | | C316 | 1-104-664-11 | ELECT 47MF 20% | 16V |
| <CAPACITOR> | | | | C317 | 1-128-551-11 | ELECT 22MF 20% | 25V |
| C1 | 1-164-489-11 | CERAMIC CHIP 0.22MF 10% | 16V | C401 | 1-163-021-91 | CERAMIC CHIP 0.01MF 10% | 50V |
| C3 | 1-126-959-11 | ELECT 0.47MF 20% | 50V | C402 | 1-163-021-91 | CERAMIC CHIP 0.01MF 10% | 50V |
| C6 | 1-126-959-11 | ELECT 0.47MF 20% | 50V | C403 | 1-163-021-91 | CERAMIC CHIP 0.01MF 10% | 50V |
| C7 | 1-126-960-11 | ELECT 1MF 20% | 50V | C404 | 1-104-664-11 | ELECT 47MF 20% | 16V |
| C8 | 1-126-960-11 | ELECT 1MF 20% | 50V | C405 | 1-104-664-11 | ELECT 47MF 20% | 16V |
| C10 | 1-164-489-11 | CERAMIC CHIP 0.22MF 10% | 16V | C406 | 1-104-664-11 | ELECT 47MF 20% | 16V |
| | | | | C407 | 1-163-021-91 | CERAMIC CHIP 0.01MF 10% | 50V |
| | | | | C408 | 1-163-021-91 | CERAMIC CHIP 0.01MF 10% | 50V |
| | | | | C409 | 1-163-021-91 | CERAMIC CHIP 0.01MF 10% | 50V |
| | | | | C410 | 1-104-664-11 | ELECT 47MF 20% | 16V |
| | | | | C411 | 1-104-664-11 | ELECT 47MF 20% | 16V |
| | | | | C412 | 1-104-664-11 | ELECT 47MF 20% | 16V |
| | | | | C413 | 1-126-960-11 | ELECT 1MF 20% | 50V |
| | | | | C414 | 1-126-960-11 | ELECT 1MF 20% | 50V |
| | | | | C418 | 1-163-227-11 | CERAMIC CHIP 10PF 0.5PF | 50V |
| | | | | C419 | 1-163-227-11 | CERAMIC CHIP 10PF 0.5PF | 50V |
| | | | | C420 | 1-163-227-11 | CERAMIC CHIP 10PF 0.5PF | 50V |
| | | | | C422 | 1-126-933-11 | ELECT 100MF 20% | 16V |
| | | | | C601 | 1-164-004-11 | CERAMIC CHIP 0.1MF 10% | 25V |
| | | | | C602 | 1-104-664-11 | ELECT 47MF 20% | 16V |
| | | | | C604 | 1-128-551-11 | ELECT 22MF 20% | 25V |
| | | | | C612 | 1-128-551-11 | ELECT 22MF 20% | 25V |
| | | | | C613 | 1-126-933-11 | ELECT 100MF 20% | 16V |
| | | | | C701 | 1-104-664-11 | ELECT 47MF 20% | 16V |



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|---------------|----------------------------|---------|---------|--------------|---------------------|--------|
| C702 | 1-163-009-11 | CERAMIC CHIP 0.001MF | 10% 50V | D504 | 8-719-800-76 | DIODE 1SS226 | |
| C703 | 1-163-021-91 | CERAMIC CHIP 0.01MF | 10% 50V | D505 | 8-719-800-76 | DIODE 1SS226 | |
| C704 | 1-126-963-11 | ELECT 4.7MF | 20% 50V | D506 | 8-719-800-76 | DIODE 1SS226 | |
| C705 | 1-126-963-11 | ELECT 4.7MF | 20% 50V | D507 | 8-719-800-76 | DIODE 1SS226 | |
| C706 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V | D508 | 8-719-800-76 | DIODE 1SS226 | |
| C707 | 1-164-182-11 | CERAMIC CHIP 0.0033MF | 10% 50V | D509 | 8-719-800-76 | DIODE 1SS226 | |
| C708 | 1-128-551-11 | ELECT 22MF | 20% 25V | D510 | 8-719-800-76 | DIODE 1SS226 | |
| C709 | 1-126-960-11 | ELECT 1MF | 20% 50V | D511 | 8-719-976-99 | ZENER DIODE DTZ5.1B | |
| C711 | 1-163-133-00 | CERAMIC CHIP 470PF | 5% 50V | D512 | 8-719-976-99 | ZENER DIODE DTZ5.1B | |
| C712 | 1-164-489-11 | CERAMIC CHIP 0.22MF | 10% 16V | D513 | 8-719-976-99 | ZENER DIODE DTZ5.1B | |
| C713 | 1-164-489-11 | CERAMIC CHIP 0.22MF | 10% 16V | | | | |
| C714 | 1-164-489-11 | CERAMIC CHIP 0.22MF | 10% 16V | | | | |
| | | <CONNECTOR> | | | | <FERRITE BEAD> | |
| CN1 | *1-564-525-11 | PLUG, CONNECTOR | 10P | FB101 | 1-216-295-91 | SHORT | 0 |
| CN2 | *1-564-518-11 | PLUG, CONNECTOR | 3P | FB102 | 1-216-295-91 | SHORT | 0 |
| CN3 | *1-564-524-11 | PLUG, CONNECTOR | 9P | FB103 | 1-216-295-91 | SHORT | 0 |
| CN4 | *1-564-520-11 | PLUG, CONNECTOR | 5P | FB104 | 1-414-233-22 | INDUCTOR CHIP | |
| CN5 | *1-564-523-11 | PLUG, CONNECTOR | 8P | FB105 | 1-414-233-22 | INDUCTOR CHIP | |
| CN601 | *1-770-734-11 | CONNECTOR, BOARD TO BOARD | 20P | FB300 | 1-414-233-22 | INDUCTOR CHIP | |
| CN602 | *1-770-734-11 | "CONNECTOR, BOARD TO BOARD | 20P | FB301 | 1-414-233-22 | INDUCTOR CHIP | |
| CN603 | 1-537-947-12 | "TERMINAL BOARD ASST, I/O | | FB302 | 1-414-233-22 | INDUCTOR CHIP | |
| | | <DIODE> | | FB303 | 1-414-233-22 | INDUCTOR CHIP | |
| D1 | 8-719-158-39 | ZENER DIODE RD10SB | | FB304 | 1-414-233-22 | INDUCTOR CHIP | |
| D5 | 8-719-158-39 | ZENER DIODE RD10SB | | FB312 | 1-216-295-91 | SHORT | 0 |
| D6 | 8-719-158-39 | ZENER DIODE RD10SB | | FB313 | 1-216-295-91 | SHORT | 0 |
| D7 | 8-719-158-39 | ZENER DIODE RD10SB | | FB314 | 1-414-233-22 | INDUCTOR CHIP | |
| D8 | 8-719-158-39 | ZENER DIODE RD10SB | | FB315 | 1-414-233-22 | INDUCTOR CHIP | |
| D10 | 8-719-158-39 | ZENER DIODE RD10SB | | FB317 | 1-216-295-91 | SHORT | 0 |
| D104 | 8-719-158-39 | ZENER DIODE RD10SB | | FB318 | 1-216-295-91 | SHORT | 0 |
| D105 | 8-719-158-39 | ZENER DIODE RD10SB | | FB319 | 1-414-233-22 | INDUCTOR CHIP | |
| D201 | 8-719-976-99 | ZENER DIODE DTZ5.1B | | FB320 | 1-414-233-22 | INDUCTOR CHIP | |
| D202 | 8-719-404-49 | DIODE MA111 | | FB321 | 1-216-295-91 | SHORT | 0 |
| D203 | 8-719-404-49 | DIODE MA111 | | FB322 | 1-216-295-91 | SHORT | 0 |
| D204 | 8-719-158-39 | ZENER DIODE RD10SB | | FB323 | 1-414-233-22 | INDUCTOR CHIP | |
| D205 | 8-719-158-39 | ZENER DIODE RD10SB | | FB324 | 1-414-233-22 | INDUCTOR CHIP | |
| D206 | 8-719-404-49 | DIODE MA111 | | FB325 | 1-216-295-91 | SHORT | 0 |
| D207 | 8-719-404-49 | DIODE MA111 | | FB326 | 1-216-295-91 | SHORT | 0 |
| D301 | 8-719-158-39 | ZENER DIODE RD10SB | | FB327 | 1-216-295-91 | SHORT | 0 |
| D302 | 8-719-158-39 | ZENER DIODE RD10SB | | FB328 | 1-216-295-91 | SHORT | 0 |
| D303 | 8-719-158-39 | ZENER DIODE RD10SB | | FB330 | 1-216-295-91 | SHORT | 0 |
| D304 | 8-719-158-39 | ZENER DIODE RD10SB | | FB331 | 1-216-295-91 | SHORT | 0 |
| D305 | 8-719-158-39 | ZENER DIODE RD10SB | | | | | |
| D306 | 8-719-158-39 | ZENER DIODE RD10SB | | | | <FILTER> | |
| D307 | 8-719-158-39 | ZENER DIODE RD10SB | | FL301 | 1-233-512-21 | FERRITE | 37UH |
| D308 | 8-719-158-39 | ZENER DIODE RD10SB | | FL302 | 1-233-512-21 | FERRITE | 37UH |
| D309 | 8-719-158-39 | ZENER DIODE RD10SB | | FL303 | 1-233-512-21 | FERRITE | 37UH |
| D312 | 8-719-158-39 | ZENER DIODE RD10SB | | FL304 | 1-233-512-21 | FERRITE | 37UH |
| D313 | 8-719-404-49 | DIODE MA111 | | FL305 | 1-239-896-12 | FILTER, EMI (SMD) | |
| D314 | 8-719-158-39 | ZENER DIODE RD10SB | | FL306 | 1-239-896-12 | FILTER, EMI (SMD) | |
| D501 | 8-719-800-76 | DIODE 1SS226 | | FL307 | 1-239-896-12 | FILTER, EMI (SMD) | |
| D502 | 8-719-800-76 | DIODE 1SS226 | | FL308 | 1-233-512-21 | FERRITE | 37UH |
| D503 | 8-719-800-76 | DIODE 1SS226 | | FL315 | 1-233-512-21 | FERRITE | 37UH |
| | | | | FL316 | 1-233-512-21 | FERRITE | 37UH |
| | | | | FL317 | 1-233-512-21 | FERRITE | 37UH |



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|---------------------------|---------------|---------|--------------|-------------|-----------------|
| | | <IC> | | R10 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W |
| IC101 | 8-759-441-31 | IC MC14053BDTR2 | | R101 | 1-216-022-00 | RES,CHIP | 75 5% 1/10W |
| IC102 | 8-759-442-20 | IC 24LC21AT/SN | | R102 | 1-216-022-00 | RES,CHIP | 75 5% 1/10W |
| IC103 | 8-759-442-20 | IC 24LC21AT/SN | | R103 | 1-216-022-00 | RES,CHIP | 75 5% 1/10W |
| IC601 | 8-759-260-24 | IC SN76861NJ-09 | | R104 | 1-216-105-91 | RES,CHIP | 220K 5% 1/10W |
| IC801 | 8-759-360-07 | IC BA7657F-E2 | | R105 | 1-216-105-91 | RES,CHIP | 220K 5% 1/10W |
| IC802 | 8-752-073-52 | IC CXA2016S | | R106 | 1-216-295-91 | SHORT | 0 |
| | | <JACK> | | R107 | 1-216-295-91 | SHORT | 0 |
| J1 | 1-573-967-12 | BLOCK, (S) TERMINAL | | R108 | 1-216-295-91 | SHORT | 0 |
| J101 | 1-573-969-11 | JACK BLOCK, PIN | | R109 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W |
| J102 | 1-774-358-11 | JACK BLOCK, PIN | | R110 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W |
| J301 | 1-573-970-11 | BLOCK, (S) TERMINAL | | R111 | 1-216-081-00 | RES,CHIP | 22K 5% 1/10W |
| | | <CHIP CONDUCTOR> | | R112 | 1-216-081-00 | RES,CHIP | 22K 5% 1/10W |
| JR11 | 1-216-295-91 | SHORT | 0 | R113 | 1-216-081-00 | RES,CHIP | 22K 5% 1/10W |
| | | <COIL> | | R114 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W |
| L601 | 1-410-478-11 | INDUCTOR | 47UH | R115 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W |
| | | <TRANSISTOR> | | R116 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W |
| Q101 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | R117 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W |
| Q102 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | R118 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W |
| Q103 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | R119 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W |
| Q105 | 1-801-806-11 | TRANSISTOR DTC144EKA-T146 | | R120 | 1-216-041-00 | RES,CHIP | 470 5% 1/10W |
| Q301 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | R121 | 1-216-041-00 | RES,CHIP | 470 5% 1/10W |
| Q303 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | R122 | 1-216-041-00 | RES,CHIP | 470 5% 1/10W |
| Q306 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | R123 | 1-216-009-00 | RES,CHIP | 22 5% 1/10W |
| Q308 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | R124 | 1-216-009-00 | RES,CHIP | 22 5% 1/10W |
| Q309 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | R125 | 1-216-009-00 | RES,CHIP | 22 5% 1/10W |
| Q310 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | R126 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W |
| Q311 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | R127 | 1-216-295-91 | SHORT | 0 |
| Q312 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | R130 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W |
| Q313 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | R131 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W |
| Q314 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | R132 | 1-216-113-00 | RES,CHIP | 470K 5% 1/10W |
| Q315 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | R133 | 1-216-113-00 | RES,CHIP | 470K 5% 1/10W |
| Q316 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | R134 | 1-216-113-00 | RES,CHIP | 470K 5% 1/10W |
| Q317 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | R135 | 1-216-113-00 | RES,CHIP | 470K 5% 1/10W |
| Q602 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | R136 | 1-216-113-00 | RES,CHIP | 470K 5% 1/10W |
| Q603 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | R137 | 1-216-113-00 | RES,CHIP | 470K 5% 1/10W |
| Q801 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | R138 | 1-216-113-00 | RES,CHIP | 470K 5% 1/10W |
| Q802 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | R139 | 1-216-113-00 | RES,CHIP | 470K 5% 1/10W |
| Q803 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | R140 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W |
| Q804 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | R141 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W |
| | | <RESISTOR> | | R142 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W |
| R1 | 1-216-022-00 | RES,CHIP | 75 5% 1/10W | R200 | 1-216-017-91 | RES,CHIP | 47 5% 1/10W |
| R6 | 1-216-022-00 | RES,CHIP | 75 5% 1/10W | R201 | 1-216-631-11 | METAL CHIP | 150 0.50% 1/10W |
| R7 | 1-216-022-00 | RES,CHIP | 75 5% 1/10W | R202 | 1-216-631-11 | METAL CHIP | 150 0.50% 1/10W |
| R8 | 1-216-105-91 | RES,CHIP | 220K 5% 1/10W | R203 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W |
| R9 | 1-216-105-91 | RES,CHIP | 220K 5% 1/10W | R204 | 1-216-009-00 | RES,CHIP | 22 5% 1/10W |
| | | | | R205 | 1-216-631-11 | METAL CHIP | 150 0.50% 1/10W |
| | | | | R206 | 1-216-631-11 | METAL CHIP | 150 0.50% 1/10W |
| | | | | R207 | 1-216-009-00 | RES,CHIP | 22 5% 1/10W |
| | | | | R208 | 1-216-631-11 | METAL CHIP | 150 0.50% 1/10W |
| | | | | R209 | 1-216-631-11 | METAL CHIP | 150 0.50% 1/10W |
| | | | | R210 | 1-216-009-00 | RES,CHIP | 22 5% 1/10W |
| | | | | R211 | 1-216-017-91 | RES,CHIP | 47 5% 1/10W |
| | | | | R215 | 1-216-009-00 | RES,CHIP | 22 5% 1/10W |
| | | | | R219 | 1-216-009-00 | RES,CHIP | 22 5% 1/10W |
| | | | | R223 | 1-216-009-00 | RES,CHIP | 22 5% 1/10W |



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|-------------|---------------|---------|--------------|-------------|-----------------|
| R224 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W | R379 | 1-216-035-00 | RES,CHIP | 270 5% 1/10W |
| R225 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W | R401 | 1-216-295-91 | SHORT | 0 |
| R226 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W | R402 | 1-216-295-91 | SHORT | 0 |
| R227 | 1-216-105-91 | RES,CHIP | 220K 5% 1/10W | R403 | 1-216-029-00 | RES,CHIP | 150 5% 1/10W |
| R228 | 1-216-105-91 | RES,CHIP | 220K 5% 1/10W | R404 | 1-216-029-00 | RES,CHIP | 150 5% 1/10W |
| R301 | 1-216-022-00 | RES,CHIP | 75 5% 1/10W | R405 | 1-216-029-00 | RES,CHIP | 150 5% 1/10W |
| R302 | 1-216-022-00 | RES,CHIP | 75 5% 1/10W | R406 | 1-216-041-00 | RES,CHIP | 470 5% 1/10W |
| R303 | 1-216-105-91 | RES,CHIP | 220K 5% 1/10W | R407 | 1-216-041-00 | RES,CHIP | 470 5% 1/10W |
| R304 | 1-216-105-91 | RES,CHIP | 220K 5% 1/10W | R408 | 1-216-041-00 | RES,CHIP | 470 5% 1/10W |
| R305 | 1-216-021-00 | RES,CHIP | 68 5% 1/10W | R409 | 1-216-009-00 | RES,CHIP | 22 5% 1/10W |
| R306 | 1-216-021-00 | RES,CHIP | 68 5% 1/10W | R410 | 1-216-009-00 | RES,CHIP | 22 5% 1/10W |
| R307 | 1-216-113-00 | RES,CHIP | 470K 5% 1/10W | R411 | 1-216-009-00 | RES,CHIP | 22 5% 1/10W |
| R308 | 1-216-113-00 | RES,CHIP | 470K 5% 1/10W | R501 | 1-216-017-91 | RES,CHIP | 47 5% 1/10W |
| R311 | 1-216-022-00 | RES,CHIP | 75 5% 1/10W | R502 | 1-216-017-91 | RES,CHIP | 47 5% 1/10W |
| R312 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | R503 | 1-216-017-91 | RES,CHIP | 47 5% 1/10W |
| R313 | 1-216-113-00 | RES,CHIP | 470K 5% 1/10W | R504 | 1-216-089-91 | RES,CHIP | 47K 5% 1/10W |
| R314 | 1-216-113-00 | RES,CHIP | 470K 5% 1/10W | R505 | 1-216-065-91 | RES,CHIP | 4.7K 5% 1/10W |
| R317 | 1-216-081-00 | RES,CHIP | 22K 5% 1/10W | R506 | 1-216-089-91 | RES,CHIP | 47K 5% 1/10W |
| R318 | 1-216-081-00 | RES,CHIP | 22K 5% 1/10W | R507 | 1-216-017-91 | RES,CHIP | 47 5% 1/10W |
| R319 | 1-216-021-00 | RES,CHIP | 68 5% 1/10W | R508 | 1-216-057-00 | RES,CHIP | 2.2K 5% 1/10W |
| R322 | 1-216-113-00 | RES,CHIP | 470K 5% 1/10W | R509 | 1-216-295-91 | SHORT | 0 |
| R324 | 1-216-081-00 | RES,CHIP | 22K 5% 1/10W | R510 | 1-216-057-00 | RES,CHIP | 2.2K 5% 1/10W |
| R325 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | R511 | 1-216-295-91 | SHORT | 0 |
| R326 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W | R512 | 1-216-033-00 | RES,CHIP | 220 5% 1/10W |
| R327 | 1-216-041-00 | RES,CHIP | 470 5% 1/10W | R513 | 1-216-033-00 | RES,CHIP | 220 5% 1/10W |
| R329 | 1-216-041-00 | RES,CHIP | 470 5% 1/10W | R514 | 1-216-295-91 | SHORT | 0 |
| R330 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W | R515 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W |
| R331 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | R516 | 1-216-057-00 | RES,CHIP | 2.2K 5% 1/10W |
| R332 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | R517 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W |
| R333 | 1-216-065-91 | RES,CHIP | 4.7K 5% 1/10W | R518 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W |
| R334 | 1-216-065-91 | RES,CHIP | 4.7K 5% 1/10W | R519 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W |
| R335 | 1-216-041-00 | RES,CHIP | 470 5% 1/10W | R520 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W |
| R336 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W | R521 | 1-216-677-11 | METAL CHIP | 12K 0.50% 1/10W |
| R337 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W | R522 | 1-216-677-11 | METAL CHIP | 12K 0.50% 1/10W |
| R338 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W | R523 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W |
| R339 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | R524 | 1-216-097-91 | RES,CHIP | 100K 5% 1/10W |
| R340 | 1-216-081-00 | RES,CHIP | 22K 5% 1/10W | R525 | 1-216-295-91 | SHORT | 0 |
| R341 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W | R526 | 1-216-085-00 | RES,CHIP | 33K 5% 1/10W |
| R342 | 1-216-047-91 | RES,CHIP | 820 5% 1/10W | R527 | 1-216-057-00 | RES,CHIP | 2.2K 5% 1/10W |
| R343 | 1-216-041-00 | RES,CHIP | 470 5% 1/10W | R528 | 1-216-113-00 | RES,CHIP | 470K 5% 1/10W |
| R344 | 1-216-033-00 | RES,CHIP | 220 5% 1/10W | R529 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W |
| R345 | 1-216-041-00 | RES,CHIP | 470 5% 1/10W | R530 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W |
| R346 | 1-216-081-00 | RES,CHIP | 22K 5% 1/10W | R531 | 1-216-065-91 | RES,CHIP | 4.7K 5% 1/10W |
| R347 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W | R538 | 1-216-295-91 | SHORT | 0 |
| R348 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W | R540 | 1-216-295-91 | SHORT | 0 |
| R349 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | R605 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W |
| R350 | 1-216-081-00 | RES,CHIP | 22K 5% 1/10W | R606 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W |
| R351 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W | R610 | 1-216-097-91 | RES,CHIP | 100K 5% 1/10W |
| R352 | 1-216-047-91 | RES,CHIP | 820 5% 1/10W | R611 | 1-216-097-91 | RES,CHIP | 100K 5% 1/10W |
| R353 | 1-216-041-00 | RES,CHIP | 470 5% 1/10W | R612 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W |
| R354 | 1-216-035-00 | RES,CHIP | 270 5% 1/10W | R616 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W |
| R355 | 1-216-041-00 | RES,CHIP | 470 5% 1/10W | R617 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W |
| R356 | 1-216-081-00 | RES,CHIP | 22K 5% 1/10W | R618 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W |
| R357 | 1-216-073-00 | RES,CHIP | 10K 5% 1/10W | R619 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W |
| R358 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W | R620 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W |
| R378 | 1-216-035-00 | RES,CHIP | 270 5% 1/10W | R621 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W |



| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|--|--------------|-------------|------------------|---------|---------------|------------------------------|--------------------|
| R622 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W | C8523 | 1-136-165-00 | FILM 0.1MF 5% 50V | |
| R623 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W | C8524 | 1-124-701-11 | ELECT 470MF 20% 25V | |
| R624 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W | C8525 | 1-136-165-00 | FILM 0.1MF 5% 50V | |
| R625 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W | C8526 | 1-124-701-11 | ELECT 470MF 20% 25V | |
| R626 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W | C8527 | 1-104-664-11 | ELECT 47MF 20% 16V | |
| R627 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W | C8528 | 1-137-371-11 | FILM 0.015MF 5% 50V | |
| R628 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W | C8529 | 1-126-964-11 | ELECT 10MF 20% 50V | |
| R629 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W | C8531 | 1-137-371-11 | FILM 0.015MF 5% 50V | |
| R633 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W | C8532 | 1-137-371-11 | FILM 0.015MF 5% 50V | |
| R634 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W | C8535 | 1-126-965-11 | ELECT 22MF 20% 50V | |
| R635 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W | C8536 | 1-126-960-11 | ELECT 1MF 20% 50V | |
| R636 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W | C8537 | 1-107-630-11 | ELECT 2200MF 20% 50V | |
| R637 | 1-216-097-91 | RES,CHIP | 100K 5% 1/10W | C8538 | 1-102-121-00 | CERAMIC 0.0022MF 10% 50V | |
| R642 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | C8539 | 1-102-121-00 | CERAMIC 0.0022MF 10% 50V | |
| R658 | 1-216-049-91 | RES,CHIP | 1K 5% 1/10W | C8540 | 1-104-664-11 | ELECT 47MF 20% 16V | |
| R659 | 1-216-041-00 | RES,CHIP | 470 5% 1/10W | C8541 | 1-104-664-11 | ELECT 47MF 20% 25V | |
| R660 | 1-216-001-00 | RES,CHIP | 10 5% 1/10W | C8550 | 1-130-489-00 | FILM 0.033MF 5% 50V | |
| R661 | 1-216-001-00 | RES,CHIP | 10 5% 1/10W | C8551 | 1-161-772-11 | CERAMIC 0.1MF 10% 25V | |
| R671 | 1-216-099-00 | RES,CHIP | 120K 5% 1/10W | C8552 | 1-161-772-11 | CERAMIC 0.1MF 10% 25V | |
| R672 | 1-216-099-00 | RES,CHIP | 120K 5% 1/10W | C8553 | 1-102-121-00 | CERAMIC 0.0022MF 10% 50V | |
| R673 | 1-216-099-00 | RES,CHIP | 120K 5% 1/10W | C8554 | 1-102-121-00 | CERAMIC 0.0022MF 10% 50V | |
| R679 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W | | | | |
| R680 | 1-216-025-91 | RES,CHIP | 100 5% 1/10W | | | <CONNECTOR> | |
| ***** | | | | | | CN8501*1-564-521-11 | PLUG, CONNECTOR 6P |
| ***** | | | | | | CN8502*1-564-518-11 | PLUG, CONNECTOR 3P |
| ***** | | | | | | CN8503*1-564-519-11 | PLUG, CONNECTOR 4P |
| ***** | | | | | | CN8505*1-564-523-11 | PLUG, CONNECTOR 8P |
| ***** | | | | | | | |
| * A-1380-551-AK BOARD, COMPLETE | | | | | | | |
| ***** | | | | | | | |
| 7-682-948-01 SCREW +PSW 3X8 (IC8501, IC8503) | | | | | | | |
| <CAPACITOR> | | | | | | | |
| C8501 | 1-104-664-11 | ELECT | 47MF 20% 16V | | | | |
| C8502 | 1-104-664-11 | ELECT | 47MF 20% 16V | | | | |
| C8503 | 1-104-664-11 | ELECT | 47MF 20% 16V | | | | |
| C8504 | 1-136-165-00 | FILM | 0.1MF 5% 50V | | | | |
| C8505 | 1-126-041-11 | ELECT | 2200MF 20% 35V | | | | |
| C8506 | 1-136-165-00 | FILM | 0.1MF 5% 50V | | | | |
| C8507 | 1-126-041-11 | ELECT | 2200MF 20% 35V | | | | |
| C8508 | 1-126-964-11 | ELECT | 10MF 20% 50V | | | | |
| C8509 | 1-137-372-11 | FILM | 0.022MF 5% 50V | | | | |
| C8510 | 1-137-372-11 | FILM | 0.022MF 5% 50V | | | | |
| C8511 | 1-126-965-11 | ELECT | 22MF 20% 50V | | | | |
| C8512 | 1-104-664-11 | ELECT | 47MF 20% 16V | | | | |
| C8513 | 1-126-960-11 | ELECT | 1MF 20% 50V | | | | |
| C8515 | 1-102-121-00 | CERAMIC | 0.0022MF 10% 50V | | | | |
| C8516 | 1-104-664-11 | ELECT | 47MF 20% 16V | | | | |
| C8517 | 1-137-372-11 | FILM | 0.022MF 5% 50V | | | | |
| C8518 | 1-137-372-11 | FILM | 0.022MF 5% 50V | | | | |
| C8519 | 1-126-961-11 | ELECT | 2.2MF 20% 50V | | | | |
| C8520 | 1-126-964-11 | ELECT | 10MF 20% 50V | | | | |
| C8521 | 1-126-961-11 | ELECT | 2.2MF 20% 50V | | | | |
| C8522 | 1-104-664-11 | ELECT | 47MF 20% 16V | | | | |
| | | | | | | <DIODE> | |
| | | | | D8501 | 8-719-110-72 | ZENER DIODE RD30ESB2 | |
| | | | | D8502 | 8-719-110-72 | ZENER DIODE RD30ESB2 | |
| | | | | | | | |
| | | | | | | <IC> | |
| | | | | IC8501 | 8-759-980-43 | IC TDA2009A | |
| | | | | IC8502 | 8-759-145-58 | IC UPC4558C | |
| | | | | IC8503 | 8-759-980-43 | IC TDA2009A | |
| | | | | IC8504 | 8-759-145-58 | IC UPC4558C | |
| | | | | | | | |
| | | | | | | <IC LINK> | |
| | | | | PS8501 | △1-532-984-91 | LINK, IC (2A/90V AC, 60V DC) | |
| | | | | PS8502 | △1-532-984-91 | LINK, IC (2A/90V AC, 60V DC) | |
| | | | | | | | |
| | | | | | | <TRANSISTOR> | |
| | | | | Q8501 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| | | | | Q8502 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| | | | | Q8503 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| | | | | | | | |
| | | | | | | <RESISTOR> | |
| | | | | R8501 | 1-215-421-00 | METAL 1K 1% 1/4W | |
| | | | | R8502 | 1-215-429-00 | METAL 2.2K 1% 1/4W | |
| | | | | R8503 | 1-215-421-00 | METAL 1K 1% 1/4W | |

KL-W7000A/W9000A

RM-Y980



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.

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

| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---------|--------------|---|---------|---------|----------|---|--------|
| R8504 | 1-215-383-00 | METAL | 27 1% | 1/4W | | | |
| R8505 | 1-249-385-11 | CARBON | 2.2 5% | 1/4W | F | | |
| R8506 | 1-249-421-11 | CARBON | 2.2K 5% | 1/4W | | | |
| R8507 | 1-249-385-11 | CARBON | 2.2 5% | 1/4W | F | | |
| R8508 | 1-249-421-11 | CARBON | 2.2K 5% | 1/4W | | | |
| R8509 | 1-215-455-00 | METAL | 27K 1% | 1/4W | | | |
| R8510 | 1-249-429-11 | CARBON | 10K 5% | 1/4W | | | |
| R8511 | 1-215-383-00 | METAL | 27 1% | 1/4W | | | |
| R8512 | 1-215-463-00 | METAL | 56K 1% | 1/4W | | | |
| R8513 | 1-215-421-00 | METAL | 1K 1% | 1/4W | | | |
| R8514 | 1-247-843-11 | CARBON | 3.3K 5% | 1/4W | | | |
| R8515 | 1-249-429-11 | CARBON | 10K 5% | 1/4W | | | |
| R8516 | 1-215-463-00 | METAL | 56K 1% | 1/4W | | | |
| R8517 | 1-215-455-00 | METAL | 27K 1% | 1/4W | | | |
| R8518 | 1-215-421-00 | METAL | 1K 1% | 1/4W | | | |
| R8519 | 1-215-421-00 | METAL | 1K 1% | 1/4W | | | |
| R8520 | 1-247-843-11 | CARBON | 3.3K 5% | 1/4W | | | |
| R8521 | 1-215-423-00 | METAL | 1.2K 1% | 1/4W | | | |
| R8522 | 1-215-423-00 | METAL | 1.2K 1% | 1/4W | | | |
| R8525 | 1-215-385-00 | METAL | 33 1% | 1/4W | | | |
| R8526 | 1-249-389-11 | CARBON | 4.7 5% | 1/4W | F | | |
| R8527 | 1-249-421-11 | CARBON | 2.2K 5% | 1/4W | | | |
| R8528 | 1-249-389-11 | CARBON | 4.7 5% | 1/4W | F | | |
| R8529 | 1-249-421-11 | CARBON | 2.2K 5% | 1/4W | | | |
| R8531 | 1-249-429-11 | CARBON | 10K 5% | 1/4W | | | |
| R8532 | 1-215-461-00 | METAL | 47K 1% | 1/4W | | | |
| R8533 | 1-215-461-00 | METAL | 47K 1% | 1/4W | | | |
| R8534 | 1-215-385-00 | METAL | 33 1% | 1/4W | | | |
| R8535 | 1-247-843-11 | CARBON | 3.3K 5% | 1/4W | | | |
| R8536 | 1-215-421-00 | METAL | 1K 1% | 1/4W | | | |
| R8537 | 1-215-421-00 | METAL | 1K 1% | 1/4W | | | |
| R8538 | 1-249-429-11 | CARBON | 10K 5% | 1/4W | | | |
| R8539 | 1-249-429-11 | CARBON | 10K 5% | 1/4W | | | |
| R8540 | 1-247-889-00 | CARBON | 270K 5% | 1/4W | | | |
| R8544 | 1-215-443-00 | METAL | 8.2K 1% | 1/4W | | | |
| R8545 | 1-215-445-00 | METAL | 10K 1% | 1/4W | | | |
| ***** | | | | | | | |
| | | * A-1390-907-ATA BOARD, COMPLETE | | | | | |
| | | <CONNECTOR> | | | | | |
| | | CN9501* 1-564-518-11 PLUG, CONNECTOR | 3P | | | | |
| | | <SWITCH> | | | | | |
| | | S9501 1-771-275-11 SWITCH, MICRO (LAMP COVER) | | | | | |
| ***** | | | | | | | |
| | | | | | | * A-1390-908-ATB BOARD, COMPLETE | |
| | | | | | | <CONNECTOR> | |
| | | | | | | CN9551* 1-564-518-11 PLUG, CONNECTOR | 3P |
| | | | | | | <SWITCH> | |
| | | | | | | S9551 1-570-245-11 SWITCH, MICRO (FILTER COVER) | |
| ***** | | | | | | | |
| | | | | | | MISCELLANEOUS | |
| | | | | | | Δ 1-251-662-11 INLET, AC 3P(WITH NOISE FILTE) | |
| | | | | | | Δ 1-473-545-13 POWER BLOCK | |
| | | | | | | Δ* 1-475-523-11 OPTICAL UNIT (W9000A) | |
| | | | | | | Δ 1-475-523-21 OPTICAL UNIT (W7000A) | |
| | | | | | | 1-505-207-11 SPEAKER (5.7CM) | |
| | | | | | | 1-505-208-11 SPEAKER (10CM) | |
| | | | | | | Δ 1-533-746-11 THERMOSTAT | |
| | | | | | | 1-543-653-11 CORE ASSY, BEAD(DIVISION TYPE) | |
| | | | | | | 1-543-653-21 CORE ASSY, BEAD | |
| | | | | | | 1-698-696-21 FAN, DC | |
| | | | | | | Δ A-1501-247-ALAMP BLOCK ASSY | |
| ***** | | | | | | | |
| | | | | | | ACCESSORY PARTS | |
| | | | | | | Δ 1-765-718-11 CORD SET, POWER | |
| | | | | | | 1-774-648-21 ADAPTOR, CONVERSION (VGA) | |
| | | | | | | 1-777-743-11 CABLE ASSY | |
| | | | | | | (15P DSUBX2 CONNECTOR) | |
| | | | | | | 1-778-967-11 ADAPTOR, CONVERSION (MAC) | |
| | | | | | | 3-701-910-00 SCREW, SPECIAL (DIA, 3.8X20) | |
| | | | | | | 3-865-141-11 MANUAL, INSTRUCTION | |
| | | | | | | (ENGLISH, FRENCH, SPANISH) | |
| | | | | | | 4-062-000-01 DISK (WINDOWS 95) | |
| | | | | | | 4-392-004-01 CLIP | |
| | | | | | | X-4030-173-1 BUCKLE ASSY (B), B | |
| | | | | | | X-4033-430-1 WRENCH ASSY | |
| ***** | | | | | | | |

| <u>REF.NO.</u> | <u>PART NO.</u> | <u>DESCRIPTION</u> | <u>REMARK</u> |
|----------------|-----------------|------------------------------|---------------|
| | | REMOTE COMMANDER ***** | |
| | 1-475-384-11 | REMOTE COMMANDER (RM-Y980) | |
| | 9-939-830-01 | COVER, BATTERY (for RM-Y980) | |

KL-W7000A/W9000A

RM-Y980

SONY[®] SERVICE MANUAL


LJ-2 CHASSIS

| <u>MODEL</u> | <u>COMMANDER</u> | <u>DEST.</u> | <u>CHASSIS NO.</u> | <u>MODEL</u> | <u>COMMANDER</u> | <u>DEST.</u> | <u>CHASSIS NO.</u> |
|--------------|------------------|--------------|--------------------|--------------|------------------|--------------|--------------------|
| KL-W7000A | RM-Y980 | US | SCC-N56D-A | KL-W9000A | RM-Y980 | US | SCC-N56D-A |
| KL-W7000A | RM-Y980 | Canadian | SCC-N56D-A | KL-W9000A | RM-Y980 | Canadian | SCC-N56D-A |




















CORRECTION-1

File this Correction with the Service manual.

SUBJECT : ACCESSORIES AND PACKING MATERIALS CHANGE

 : Indicates corrected portions

SECTION 7. ELECTRICAL PARTS LIST (See page 148)

| INCORRECT | | | | CORRECT | | | |
|-----------|----------|--------------------------------|--------|---------|----------|---|--------|
| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | REMARK |
| | | ACCESSORY PARTS ***** | | | |  ACCESSORIES AND PACKING MATERIALS ***** | |
| | | | | | |  * 3-704-356-01 SHEET (STANDARD), PROTECTION (W9000A) | |
| | | | | | |  * 4-030-895-01 JOINT (W9000A) | |
| | | | | | |  * 4-051-751-01 CUSHION (UPPER) (ASSY) (W7000A) | |
| | | | | | |  * 4-051-752-01 CUSHION (LOWER) (ASSY) (W7000A) | |
| | | | | | |  * 4-051-753-01 TRAY (W7000A) | |
| | | | | | |  * 4-055-265-01 TRAY (W9000A) | |
| | | | | | |  * 4-055-266-01 CUSHION (UPPER) (ASSY) (W9000A) | |
| | | | | | |  * 4-055-267-01 CUSHION (LOWER) (ASSY) (W9000A) | |
| | | | | | |  * 4-055-272-01 CUSHION (FRONT) (ASSY) (W9000A) | |
| | | | | | |  * 4-055-275-01 BOAR, TOP (W9000A) | |
| | | | | | |  * 4-056-203-01 BASE TRAY (W9000A) | |
| | | | | | |  * 4-057-715-01 SPACER (W9000A) | |
| | | | | | |  4-068-492-01 DISK (WINDOWS 98) | |
| | | | | | |  * 4-384-101-21 BAG, PROTECTION (W7000A) | |
| | | | | | |  * 4-395-902-01 BAG, PROTECTION (W9000A) | |
| | | | | | |  * 4-396-077-01 JOINT (W7000A) | |
| | | | | | |  * X-4036-340-1 INDIVIDUAL CARTON ASSY (W9000A) | |
| | | | | | |  * X-4036-341-1 INDIVIDUAL CARTON ASSY (W7000A) | |
| | | 4-062-000-01 DISK (WINDOWS 95) | | | | | |



※ Please file according to model size.

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SONY[®] SERVICE MANUAL

LJ-2 CHASSIS

| <u>MODEL</u> | <u>COMMANDER</u> | <u>DEST.</u> | <u>CHASSIS NO.</u> |
|--------------|------------------|--------------|--------------------|
| KL-W7000A | RM-Y980 | US | SCC-N56D-A |
| KL-W7000A | RM-Y980 | Canadian | SCC-N56D-A |

| <u>MODEL</u> | <u>COMMANDER</u> | <u>DEST.</u> | <u>CHASSIS NO.</u> |
|--------------|------------------|--------------|--------------------|
| KL-W9000A | RM-Y980 | US | SCC-N56C-A |
| KL-W9000A | RM-Y980 | Canadian | SCC-N56C-A |

CORRECTION -2

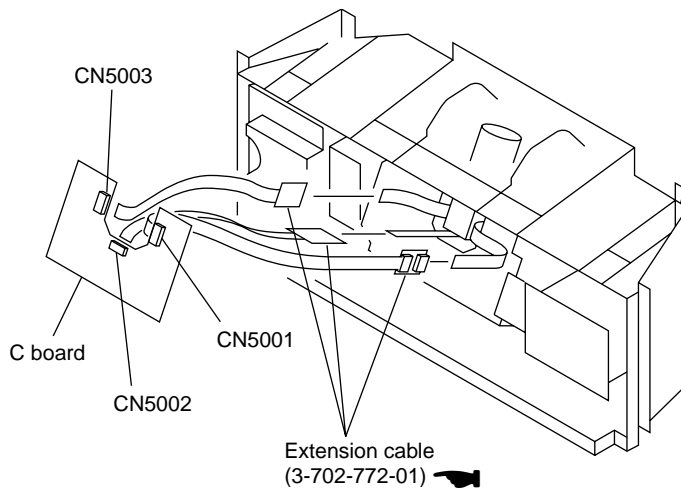
Subject : Extension cable Part No. Addition

File this correction with the service manual.

 : Corrected portion

3. DISASSEMBLY (Page 24)

3-10-2. EXTENSION CABLE (C BOARD)



※ Please file according to model size. ■

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