

Service Manual

CD Stereo System



SB-WAK860 SB-PS960 SB-PS960 SB-WAK960



Remote Control SB-PF960 SA-AK960 SB-PF960

SA-AK960GCP

Colour

(K)... Black Type

Notes: This model's CD mechanism changer unit is CRS1. Please refer to the original Service Manual (Order No. MD0509368C0) for this mechanism.

Specifications

■ AMPLIFIER SECTION

RMS output power

Front Ch 200 W per channel (7 Ω), 1 kHz,
10% THDSubwoofer Ch 240 W per channel (7 Ω), 1 kHz,
10% THDTotal RMS Dolby Digital Mode
power 880 W

■ FM/AM TUNER, TERMINALS SECTION

Preset station

FM 20 stations
AM 15 stations

Frequency Modulation (FM)

Frequency range 87.50 to 108.00 MHz
(50 kHz step)

Sensitivity

4.0 μV (IHF)

S/N 26 dB

2.2 μV

Antenna terminal(s)

75 Ω (unbalanced)

Amplitude Modulation (AM)

522 to 1629 kHz (9 kHz step)

520 to 1630 kHz (10 kHz step)

Sensitivity S/N 20 dB (at 999 kHz)

1000 μV/m

Phone jack

Stereo, 3.5 mm jack

Terminal

Terminal

MIC jack

0.7 mV, 1.2 kΩ

Sensitivity

Mono, 3.5 mm jack (1 system)

Terminal

Music Port (Front)

100 mV, 4.7 kΩ

Sensitivity

Stereo, 3.5 mm jack

Terminal

USB Port

Panasonic

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| | | | |
|---|---|-----------------------------------|--|
| USB standard | USB 2.0 full speed | S/N ratio (CD-Audio) | 95 dB |
| Media file format support | MP3 (*.mp3) | Dynamic range (CD-Audio) | 93 dB |
| USB device file system | FAT12, FAT16, FAT32 | Total harmonic dist. (CD-Audio) | 0.005% |
| USB port power | 500 mA (Max) | | |
| ■ CASSETTE DECK SECTION | | | |
| Track system | 4 track, 2 channel | Power supply | AC 110 to 127/220 to 240 V, 50/60Hz |
| Heads | Solid permalloy head | Power consumption | 235 W |
| Record/playback | Double gap ferrite head | Dimensions (W x H x D) | 250 x 331.5 x 358 mm |
| Erasure | DC servo motor | Mass | 8.3 kg |
| Motor | AC bias 100 kHz | Operating temperature range | +5 to +35°C |
| Recording system | AC erase 100 kHz | Operating humidity range | 5 to 90% RH (no condensation) |
| Erase system | 4.8 cm/s | Power consumption in standby mode | 0.99 W (Approx.) |
| Tape speed | Overall frequency response (+3 dB, -6 dB) at DECK OUT | | |
| NORMAL | 35 Hz to 14 kHz | ■ SYSTEM | |
| S/N Ratio | 50 dB (A-WTD) | SC-AK960 (GCP) | Music center: SA-AK960 (GCP) |
| Wow and flutter | 0.18% (WRMS) | (SF-AK960GCP) | Front speakers: SB-PF960 (GCP) |
| Fast forward and rewind time | Approx. 120 seconds with C-60 cassette tape | | Surround speakers: SB-PS960 (GCP) |
| Pick up | | | Subwoofer: SB-WAK960 (PL) |
| Wavelength | 785 nm | | Subwoofer: SB-WAK860 (GCP) |
| Laser power | CLASS 1 | | |
| Audio output (Disc) | | | |
| Number of channels | (FL, FR, SL, SR, SW) 4.2 ch | | |
| Audio performance (measurement at: CD out terminal) | | | |
| Frequency response (CD-Audio) | 4 Hz to 20 kHz | | |

WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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1 Safety Precautions

1.1. General Guidelines

- When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
- After servicing, ensure that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
- After servicing, check for leakage current checks to prevent from being exposed to shock hazards.

1.1.1. Leakage Current Cold Check

- Unplug the AC cord and connect a jumper between the two prongs on the plug.
- Using an ohmmeter measure the resistance value, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between $1M\Omega$ and 5.2Ω .
When the exposed metal does not have a return path to the chassis, the reading must be ∞ .

1.1.2. Leakage Current Hot Check

- Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
- Connect a $1.5k\Omega$, 10 watts resistor, in parallel with a $0.15\mu F$ capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
- Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
- Check each exposed metallic part, and measure the voltage at each point.
- Reverse the AC plug in the AC outlet and repeat each of the above measurements.
- The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. should the measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and re-checked before it is returned to the customer.

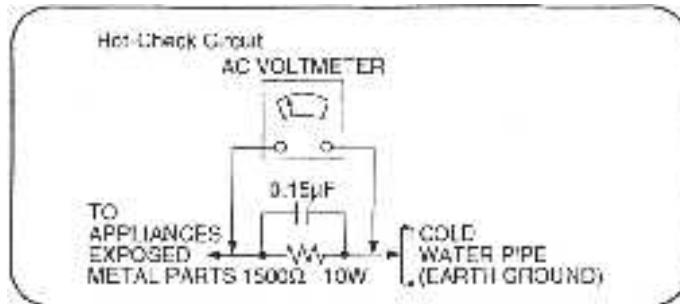


Fig. 1

1.2. Before Use

Be sure to disconnect the mains cord before adjusting the voltage selector.

Use a minus(-) screwdriver to set the voltage selector (on the rear panel) to the voltage setting for the area in which the unit

will be used. (If the power supply in your area is 110V or 120V, set to the "127V" position.)

Note that this unit will be seriously damaged if this setting is not made correctly. (There is no voltage selector for some countries, the correct voltage is already set.)

1.3. Before Repair and Adjustment

Disconnect AC power, discharge Power Supply Capacitors C5104, C5171, C5172, C5920, C5940 and C5950 through a 10Ω , 1W resistor to ground.

DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may destroy solid state devices.

After repairs are completed, restore power gradually using a variac, to avoid overcurrent.

- Current consumption at AC 110 - 127 V, at 60 Hz in NO SIGNAL mode (at volume min in CD mode) should be ~500 mA.
- Current consumption at AC 220 - 240 V, at 50 Hz in NO SIGNAL mode (at volume min in CD mode) should be ~350 mA.

1.4. Protection Circuitry

The protection circuitry may have operated if either of the following conditions are noticed:

- No sound is heard when the power is turned on.
- Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of the amplifier are used.

If this occurs, follow the procedure outlined below:

1. Turn off the power.
2. Determine the cause of the problem and correct it.
3. Turn on the power once again after one minute.

Note:

When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

1.5. Safety Part Information

Safety Parts List:

There are special components used in this equipment which are important for safety. These parts are marked by  in the Schematic Diagrams & Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

Table 1

| Reference No. | Part No. | Part Name & Description | Remarks |
|---------------|--------------|-------------------------|---|
| F1 | K5D502BLA013 | FUSE | [M]  |
| F2 | K5D312BLA015 | FUSE | [M]  |
| JK5950 | K2AA2B000011 | JK AC INLET | [M]  |
| T5950 | G5CYBYY00006 | MAIN TRANSFORMER | [M]  |
| T5951 | G4C2AAJ00005 | SUB TRANSFORMER | [M]  |
| A2 | K2CQ2CA00006 | AC CORD | [M]  |
| RL5950 | K6B1AEA00003 | PC POWER RELAY | [M]  |
| L5950 | ELF15N035AN | LINE FILTER | [M]  |
| Z5950 | ERZV10V511CS | ZENER | [M]  |
| S5950 | KOABL000003 | SW VOLTAGE SELECTOR | [M]  |
| 360 | RAE0165A-V | TRAVERSE UNIT | [M]  |
| FP5950 | K5G402AA0002 | FUSE PROTECTOR | [M]  |

2 Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

1. Immediately before handling any semiconductor component or semiconductor-equipd assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equiped with ES devices, place the assembly on a conductive surface such as aluminium foil, to prevent electrostatic charge build up or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder remover device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminium foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

Caution

Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize body motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

3 Precaution of Laser Diode

CAUTION:

This unit utilizes a class 1 laser diode in the optical pickup unit.

Invisible laser radiation is emitted from the optical pickup lens.

Wavelength: 785 nm

When the unit is turned on:

1. Do not look directly into the pick up lens.
2. Do not use optical instruments to look at the pick up lens.
3. Do not adjust the preset variable resistor on the pickup lens.
4. Do not disassemble the optical pick up unit.
5. If the optical pick up is replaced, use the manufacturer's specified replacement pick up only.
6. Use of control or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION!

THIS PRODUCT UTILIZES A LASER.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

■ Use of Caution Labels



Fig 3.1



Inside of product:

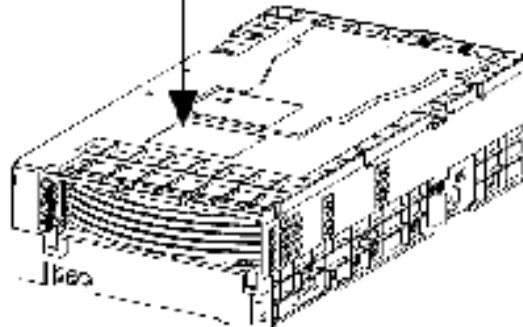


Fig 3.2

4 Handling Precautions For Traverse Unit

The laser diode in the traverse unit may break down due to potential difference caused by the static electricity of clothes or our human body.

So, be careful of electrostatic breakdown during repair of the traverse unit.

- Way of handling the traverse unit

1. Do not subject the traverse unit to static electricity as it is extremely sensitive to electrical shock.
2. To prevent the breakdown of the laser diode, an antistatic shorting pin is inserted into the flexible board (FFC board).
3. Do not apply excessive stress to the flexible board (FFC board). When removing or connecting the short pin, finish the job in as short time as possible.
4. Do not turn the variable resistor for laser power adjustment. (It is pre-adjusted during production time)

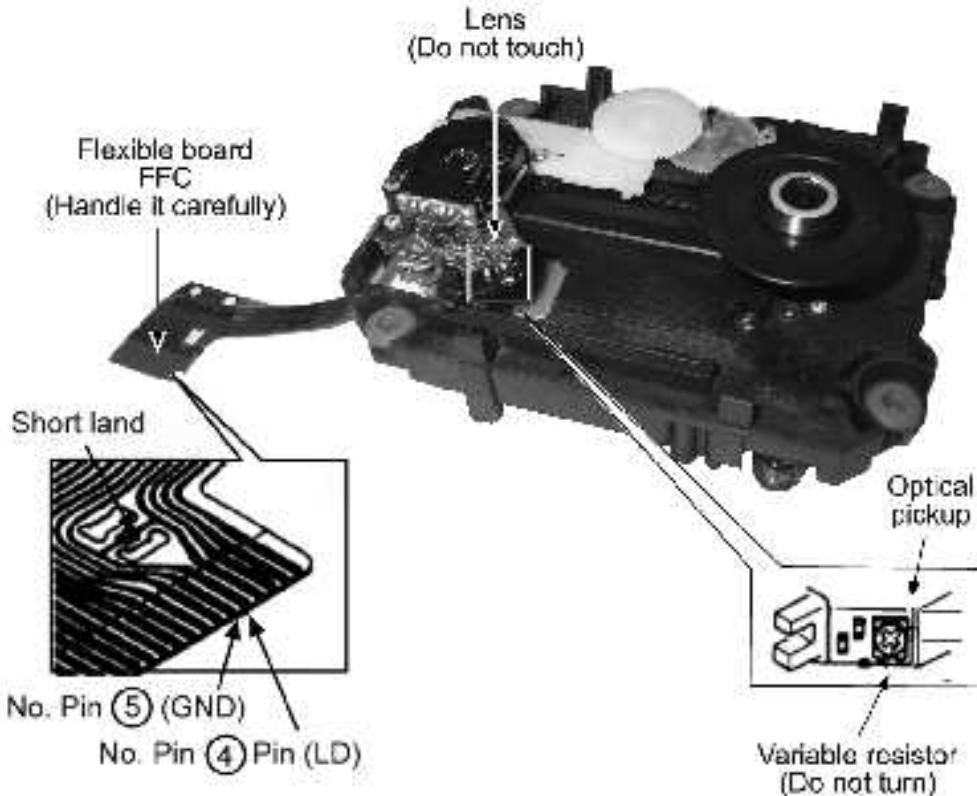


Fig 4.1

Grounding for electrostatic breakdown prevention

1. Human body grounding

Use the anti-static wrist strap to discharge the static electricity from your body.

2. Work table grounding

Put a conductive material (sheet) or steel sheet on the area where the traverse unit is place, and ground the sheet.

Caution :

The static electricity of your clothes will not be grounded through the wrist strap. So, take care not to let your clothes touch the traverse unit.

Caution when replacing the Traverse Unit

The traverse unit has a short point shorted with solder to protect the laser diode against electrostatics breakdown. Be sure to remove the solder from the short point before making connections.

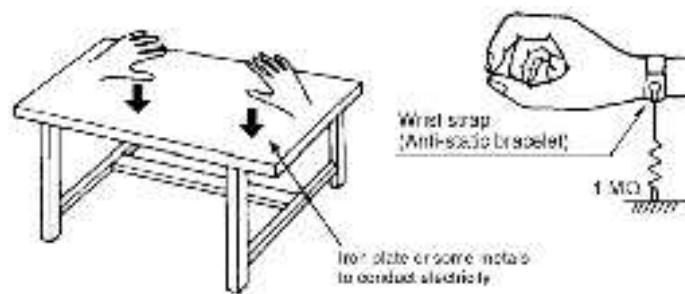


Fig 4.2

5 Handling the Lead Free Solder

5.1. General description about Lead Free Solder (PbF)

The lead free solder has been used in the mounting process of all electrical components on the printed circuit boards used for this equipment in considering the globally environmental conservation.

The normal solder is the alloy of tin (Sn) and lead (Pb). On the other hand, the lead free solder is the alloy mainly consists of tin (Sn), silver (Ag) and Copper (Cu), and the melting point of the lead free solder is higher approx.30 degrees C (86°F) more than that of the normal solder.

Definition of PCB Lead Free Solder being used

The letter of "PbF" is printed either foil side or components side on the PCB using the lead free solder.
(See right figure)

PbF

Service caution for repair work using Lead Free Solder (PbF)

- The lead free solder has to be used when repairing the equipment for which the lead free solder is used.
(Definition: The letter of "PbF" is printed on the PCB using the lead free solder.)
- To put lead free solder, it should be well molten and mixed with the original lead free solder.
- Remove the remaining lead free solder on the PCB cleanly for soldering of the new IC.
- Since the melting point of the lead free solder is higher than that of the normal lead solder, it takes the longer time to melt the lead free solder.
- Use the soldering iron (more than 70W) equipped with the temperature control after setting the temperature at 350±30 degrees C (662±86°F).

Recommended Lead Free Solder (Service Parts Route.)

- The following 3 types of lead free solder are available through the service parts route.
- RFKZ03D01K-----(0.3mm 100g Reel)
RFKZ06D01K-----(0.6mm 100g Reel)
RFKZ10D01K-----(1.0mm 100g Reel)

Note

* Ingredient: Tin (Sn), 96.5%, Silver (Ag) 3.0%, Copper (Cu) 0.5%, Cobalt (Co) / Germanium (Ge) 0.1 to 0.3%

6 Accessories

Note : Refer to Replacement Parts List (Section 23) for the part number.



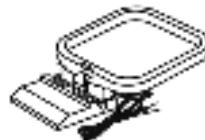
Remote
Control



AC Cord



FM Indoor
Antenna



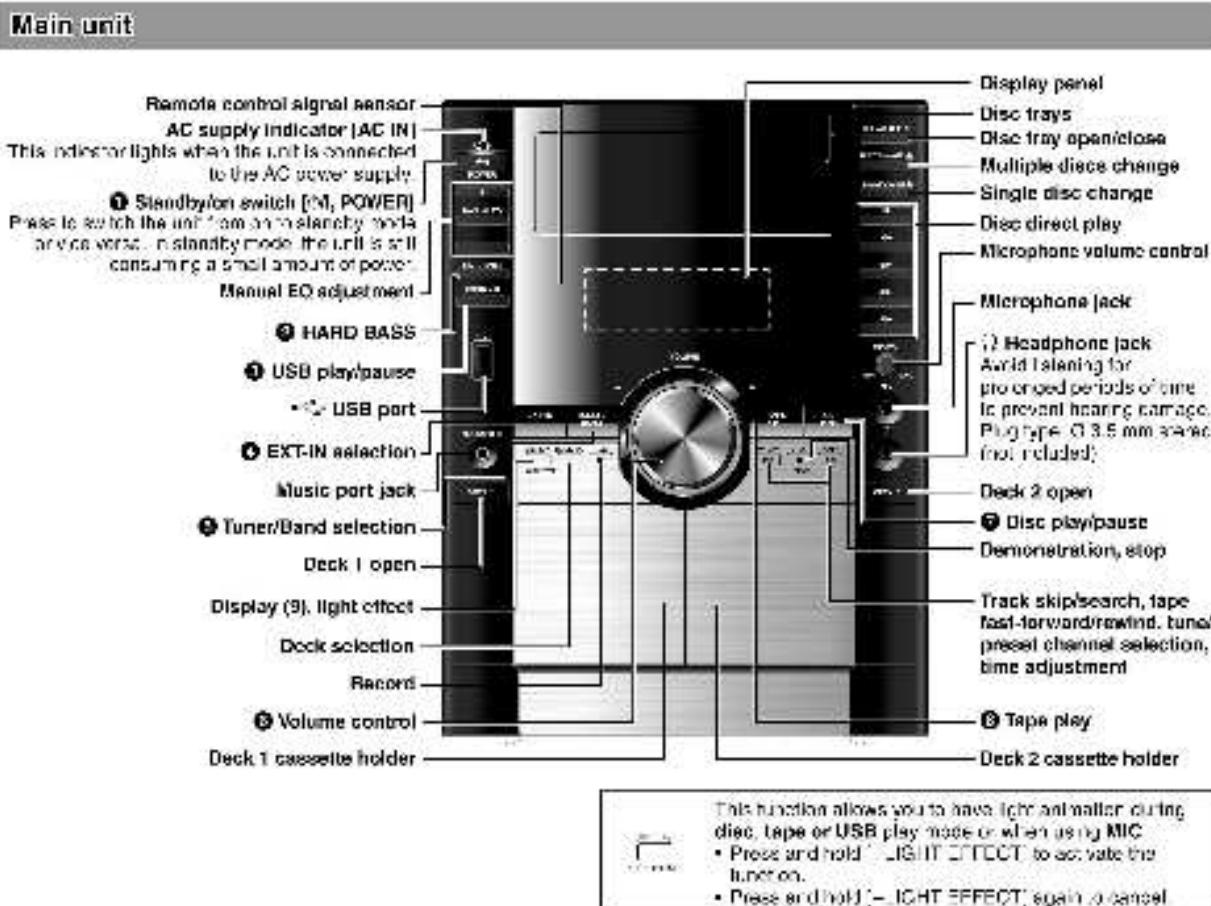
AM Loop Antenna



Power Plug
Adaptor

7 Operation Procedures

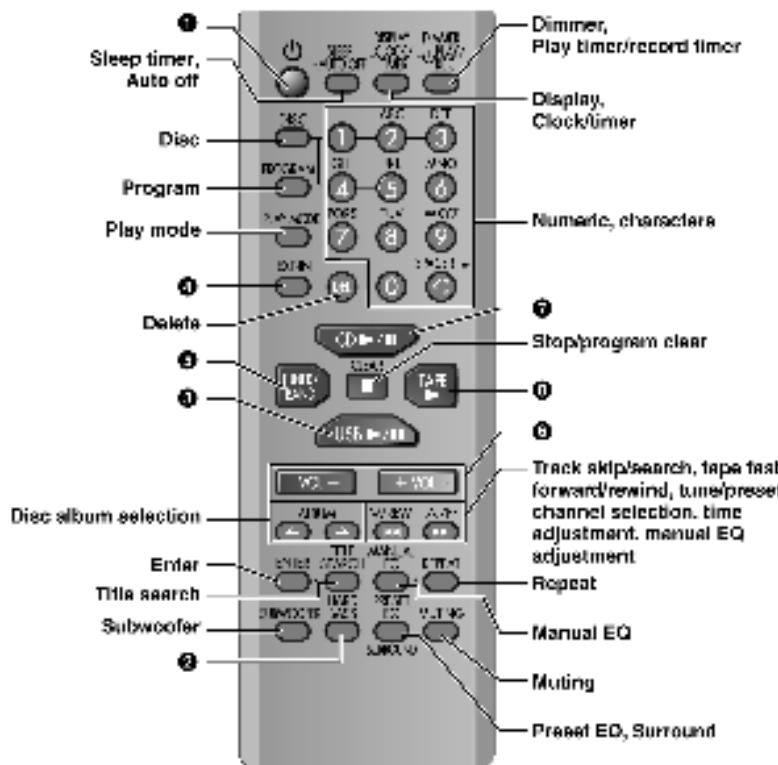
7.1. Main Unit Key Buttons Operation



7.2. Remote Control Key Buttons Operation

Remote control

Buttons such as ① function the same as the controls on the main unit.



| | |
|---|---|
| SLEEP | AUTO OFF |
| ① | This auto off function allows you to turn off the unit in disc, tape or USB mode only after it has been left unused for 10 minutes. |
| • Press and hold [SLEEP/AUTO OFF] to activate the function. | • Press and hold [SLEEP/AUTO OFF] again to cancel. |
| • The setting is maintained even if the unit is turned off. | |
| DISPLAY | |
| ② | To dim the display panel. |
| MUTING | |
| ③ | To mute the volume. |
| • Press the button to activate. | • Press again to cancel. |

7.3. Disc Information

NOTE on CDs

- This unit can access up to 80 tracks.
- Choose disc with the mark.



- This unit can play MP3 files and CD-DA format audio CD-R/RW that have been finalized.
- It may not be able to play some CD-R/RW due to the condition of the recording.
- Do not use irregularly shaped discs.
- Do not use discs with labels and stickers that are coming off or with adhesive exuding from under labels and stickers.
- Do not attach extra labels or stickers on the disc.
- Do not write anything on the disc.

Using DualDisc

The "CD" sides of DualDiscs do not meet the CD-DA standard so it may not be possible to play them on this unit.

NOTE on MP3

- Files are treated as tracks and folders are treated as albums.
- The unit can access up to 899 tracks, 255 albums and 20 sessions.
- Disc must conform to ISO9660 level 1 or 2 (except for extended formats).
- To play in a certain order, prefix the folder and file names with 3-digit numbers in the order you want to play them.

When "NOT MP3/ERROR" appears on the display, an unsupported MP3 format is being played. The unit will skip that track and play the next one.

Limitations on MP3 play

- If you have recorded MP3 on the same disc as CD-DA, only the format recorded in the first session can be played.
- Some MP3s may not be played due to the condition of the disc or recording.
- Recordings will not necessarily be played in the order you recorded them.

8 New Features

8.1. Using the Music Port and Connecting & Playing a USB Mass Storage Class Device

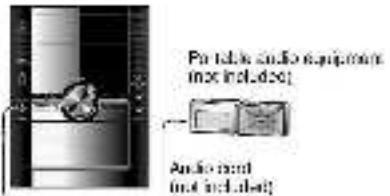
External unit

Preparation

- All peripheral components and cables are sold separately.
- Turn off all equipment and read the appropriate operating instructions.

Connecting to a portable audio equipment

This feature enables you to enjoy music from a portable audio equipment.

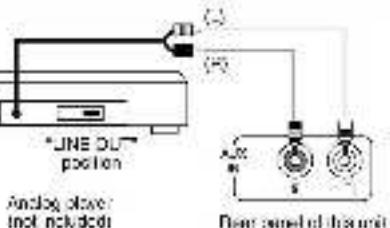


Playing or recording from a portable audio equipment

Switch off the equalizer function (if there is any) or the portable audio equipment before you plug into the MUSIC PORT jack. Otherwise sound from the speaker may be distorted.

- 1 Plug the audio cord into the MUSIC PORT jack.
- 2 Press [EXT IN] repeatedly until "MUSIC PORT" is displayed.
- 3 For listening : Proceed to step 4.
For recording : Press [\bullet , REC] on the main unit to start recording.
- 4 Play the portable audio equipment.

Connecting to other external unit



Playing or recording from an external unit

You can connect to an analog player with a built-in phone equalizer.

- 1 Press [EXT IN] repeatedly until "AUX" is displayed.
- 2 For listening : Proceed to step 3.
For recording : Press [\bullet , REC] on the main unit to start recording.
- 3 Start playback from the external source.

Note:

- When units other than those described above are to be connected, please consult your audio dealer.
- Some devices may need when you use an adapter other than the one supplied.

Connecting and playing a USB mass storage class device



The USB connectivity enables you to connect and play MP3 tracks from USB mass storage class. Typically, USB memory devices. (Bulk only transfer)

Preparation

Before connecting any USB mass storage device to the unit, ensure that the data stored therein has been backed up.

It is not recommended to use a USB extension cable. The USB device is not recognized by this unit.



- 1 Reduce the volume and connect the USB mass storage device.
- 2 Press [▶/■, USB] to start play.

| To | Action |
|-------------|--|
| pause play | Press [<▶/■, USB]. Press again to resume play. |
| | |
| stop play | Press [<■, CLEAR]. "REFSUM*" is displayed. The position is memorized. Press [<▶/■, USB] to resume. Press [<■, CLEAR] again to clear the position. |
| | |
| skip tracks | Press [<◀/▶, ▲/REW] or [<▶/◀, △/FF]. |
| | |
| skip album | Press [ALBUM [<◀/▶>] in the play mode. Press [ALBUM [<◀/▶>] once and then the same button in the stop mode. |
| | |

For other operating functions, they are similar as those described in "Discs".

Recording from a USB mass storage class device

- 1 Press [<◀/▶, ▲/REW] or [<▶/◀, △/FF] to select the desired track for recording.
2 Press [<●, REC] on the main unit to start recording.

Compatible devices

Devices which are defined as USB mass storage class:

- USB devices that support bulk only transfer.
- USB devices that support USB 2.0 full speed.

Supported format

Files must have the extension ".mp3" or ".MP3".

Note:

- CBI (Central Bit-Interleaved) is not supported.
- A device using NTFS file system is not supported (Only FAT 12/16/32 (File Allocation Table 12/16/32) file system is supported).
- Depending on the sector size, some files may not work.
- This unit can access up to 255 albums (including blank folders) and 2500 tracks.
- The maximum number of tracks in a folder are 869 tracks.
- Only one memory card will be selected when connecting a multi-port USB card reader. (Select by the first memory card inserted.)
- Disconnect the USB card reader from the unit when you remove the memory card. Failure to do so may cause malfunction to the device.
- When you connect your digital audio player to the USB port, it charges all the time except in standby mode and during tape recording.

Changing the main unit and remote control mode

The remote control and main unit are factory-set to "REMOTE 1" mode. If your remote control affects other equipment during operation, you can switch to operate in "REMOTE 2" mode.

To switch to "REMOTE 2" mode

- 1 While pressing and holding [EXT-IN] on the main unit
Press and hold [2] until "REMOTE 2" appears on the main unit display.
- 2 Press and hold [ENTER] and [2] for at least 2 seconds.
The main unit and remote control are now set to operate in "REMOTE 2" mode.

To return to "REMOTE 1" mode

Perform steps 1 and 2 above but use [1] instead of [2] for both steps. ("REMOTE 1" appears on the main unit during step 1.)

The remote control cannot work with the main unit if their modes are different.

"REMOTE 1" or "REMOTE 2" appears on the main unit display when you operate the remote control.

- * 1 "REMOTE 1" appears (The main unit is in "REMOTE 1" mode.)
Press and hold [ENTER] and [1] on the remote control for at least 2 seconds.
If "REMOTE 2" appears (The main unit is in "REMOTE 2" mode.)
Press and hold [ENTER] and [2] on the remote control for at least 2 seconds.

9 Self diagnosis and special mode setting

This unit is equipped with features of self-diagnostic & special mode setting for checking the functions & reliability.

9.1. Service Mode Summary Table

The service modes can be activated by pressing various button combination on the main unit and remote control unit. Below is the summary for the various modes for checking:

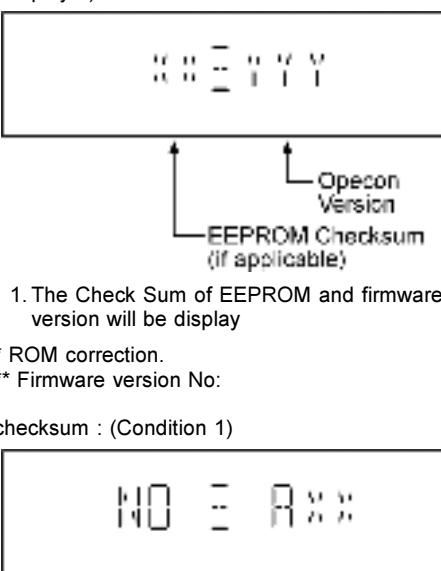
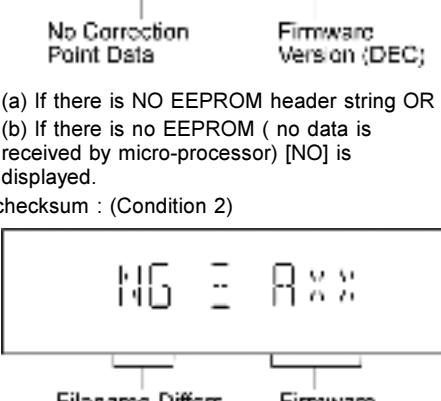
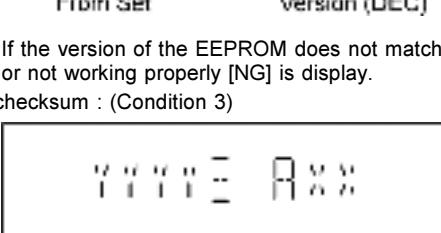
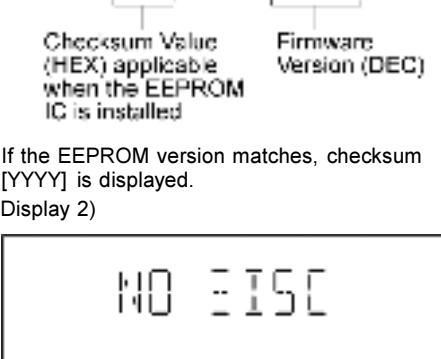
| Player button | Remote control button unit | Application | Note |
|---------------|----------------------------|---------------------------|---|
| [STOP, ■] | [4], [7] | Entering into Doctor Mode | Refer to the section, "9.2.1 Service Mode Table 1 for more information. |

| Mode | Remote control button unit | Application | Note |
|----------------|----------------------------|---|--|
| In Doctor Mode | [STOP, ■], [4]+[7] | Display firmware version & EEPROM checksum | Refer to the section, "9.2.1 for more information. |
| | [4] | Set for cold start when reset start is executed the next time | Refer to the section, "9.2.2 for more information. |
| | [Muting] | Clock Setting | Refer to the section, "9.2.3 for more information. |
| | [0] | Tape Eject Test | Refer to the section, "9.2.2 for more information. |
| | [DIMMER] | All segment display for the FL | Refer to the section, "9.2.2 for more information. |
| | [DISC] | CRS1 Inspection | Refer to the section, "9.2.2 for more information. |
| | [7] | Volume 50 Setting check | Refer to the section, "9.2.3 for more information. |
| | [8] | Volume 41 Setting check | Refer to the section, "9.2.3 for more information. |
| | [9] | Volume 35 Setting check | Refer to the section, "9.2.3 for more information. |

9.2. Service Mode

9.2.1. Service Mode Table 1

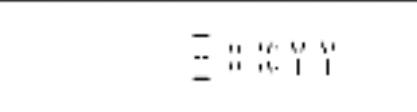
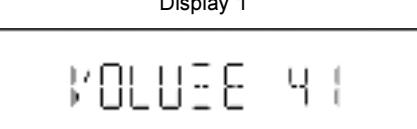
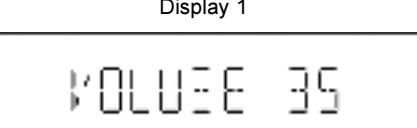
| Mode Name | Item | FL Display | Key Operation |
|-----------------------|---|--|---|
| | | | Front Key |
| Self -Diagnostic Mode | To enter into self diagnostic checking for main unit. |  | 1. Select [TAPE, ▶] for TAPE mode (Ensure no TAPE inserted). 2. Press and hold [STOP, ■] button follow by [FF/▶▶]. To exit, press [O/I, POWER] button on main unit or remote control. |

| Item | | FL Display | Key Operation |
|-------------|--|---|---------------|
| Mode Name | Description | | Front Key |
| Doctor Mode | <p>To enter into Doctor Mode for checking of various items and displaying EEPROM and firmware version.</p> <p>Note: The micro-processor version as shown is an example. It will be revise when there is an updates.</p> <p>FL display sequence Display 1 → 2</p> <p>1. The Check Sum of EEPROM and firmware version will be display</p> <p>* ROM correction. ** Firmware version No:</p> <p>checksum : (Condition 1)</p>  <p>No Correction Point Data Firmware Version (DEC);</p> <p>(a) If there is NO EEPROM header string OR (b) If there is no EEPROM (no data is received by micro-processor) [NO] is displayed.</p> <p>checksum : (Condition 2)</p>  <p>Firmware Version (DEC)</p> <p>If the version of the EEPROM does not match or not working properly [NG] is display.</p> <p>checksum : (Condition 3)</p>  <p>Checksum Value (HEX) applicable when the EEPROM IC is installed Firmware Version (DEC)</p> <p>If the EEPROM version matches, checksum [YYYY] is displayed.</p> <p>(Display 2)</p>  <p>NO EISE</p> | <p>In CD Mode:</p> <ol style="list-style-type: none"> Press [STOP, ■] button on main unit follow by [4] and [7] on remote control. <p>To exit, press [ENTER] button on remote control or press [O/I, POWER] button on main unit or remote control.</p> | |

9.2.2. Service Mode Table 2

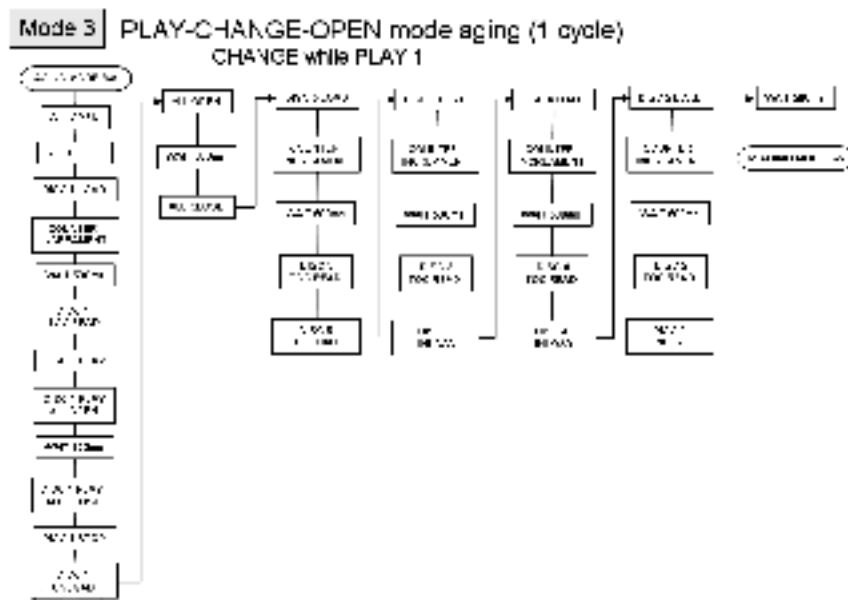
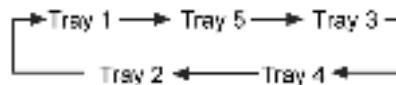
| Item | | FL Display | Key Operation |
|-------------------------------------|---|------------------------------------|---|
| Mode Name | Description | | Front Key |
| CD Test Mode | Checking of CD Operation. | | In CD mode: 1. Select [CD, ▶/■] for CD mode. 2. Press and hold [STOP, ■] button for 3 seconds follow by [FF/▶▶]. To exit, press [∅/I, POWER] button on main unit or remote control. |
| CD Auto Adjustment | To check the CD auto adjustment result for FLOCK, TLOCK and CLVS. FLOCK: Focus Lock. TLOCK: Traverse Lock. CLVS: Constant Linear Velocity Speed. | | In CD Test mode: 1. Press [0] button on remote control. To exit, press [ENTER] button on remote control or press [∅/I, POWER] button on main unit or remote control. |
| CD Changer Reliability Test (CRS 1) | To determine the reliability of CD Loading Unit. (For more information, refer to section 9.2.4) | | In Self-Diagnostic mode: 1. Select [CD, ▶/■] for CD mode. 2. Press [=ENT/-] button. To exit, press [∅/I, POWER] button on main unit or remote control. (The tray will return to PLAY position and then power off) |
| Service Mode (For traverse unit) | To unlock the traverse unit for service. FL display sequence Display 1 → 2 | (Display 1) (Display 2) | In TAPE mode: 1. With no cassette tape inserted. 2. Press [STOP, ■], [FF/▶▶] button on main unit. 3. Press [SINGLE CHANGE] on main unit. To exit, press [∅/I, POWER] button on main unit or remote control. |
| CD changer unit Open / Close Test | To check the function operation of changer unit. (For more information refer to 9.2.4) | | In doctor mode: 1. Press [DISC] button on remote control. To exit, press [ENTER] button on remote control or press [∅/I, POWER] button on main unit or remote control. |
| Tape Eject Test | To check on the tape eject function (For deck 1/2) | | In doctor mode: 1. Press [0] button on remote control. To exit, press [ENTER] button on remote control or press [∅/I, POWER] button on main unit or remote control. |
| FL Display Test | To check the FL segments display (All segments will light up and LED will blink at 0.5 second interval) | | In doctor mode: 1. Press [DIMMER] button on remote control. To exit, press [ENTER] button on remote control or press [∅/I, POWER] button on main unit or remote control. |
| Cold Start | To activate cold start upon next AC power up. | | In doctor mode: 1. Press [4] button on remote control. To exit, press [ENTER] button on remote control or press [∅/I, POWER] button on main unit or remote control. |

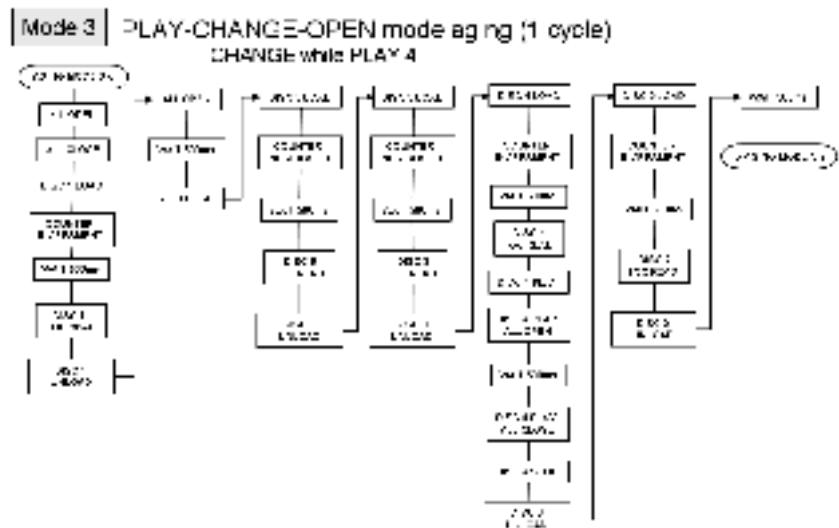
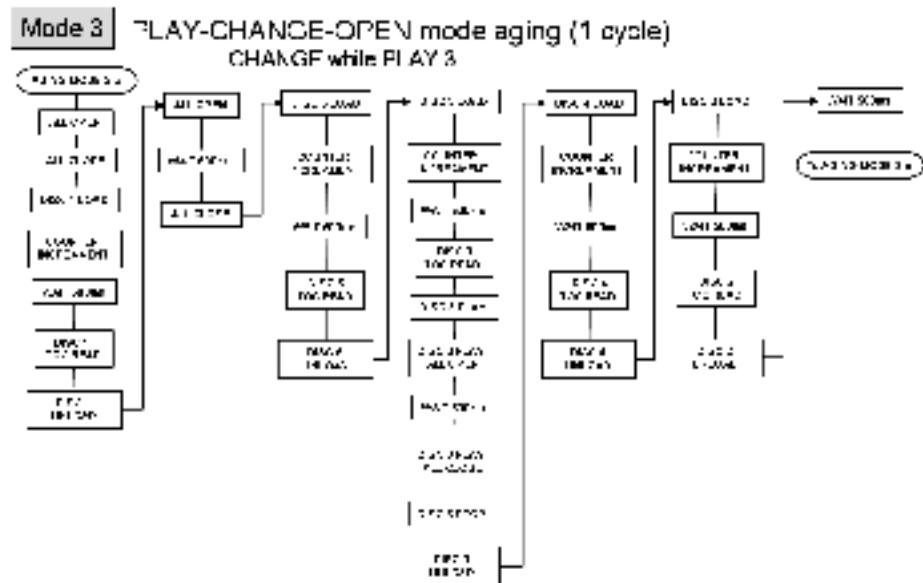
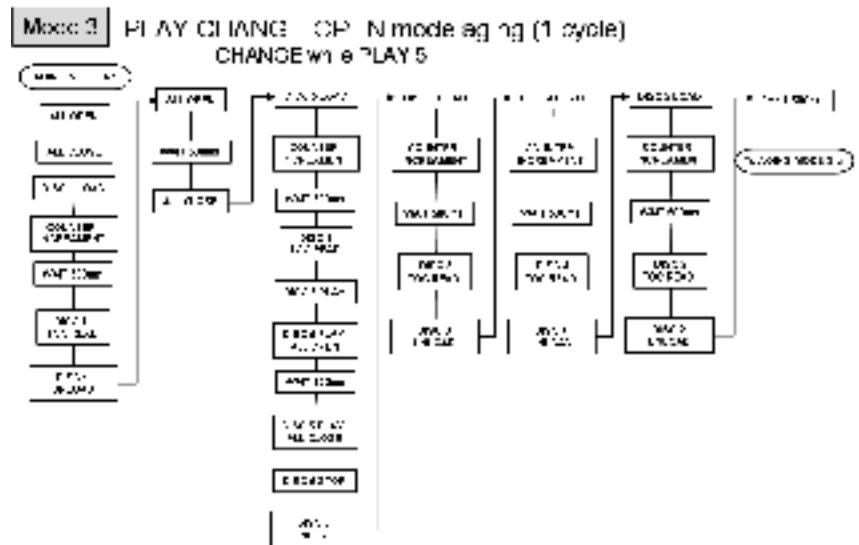
9.2.3. Service Mode Table 3

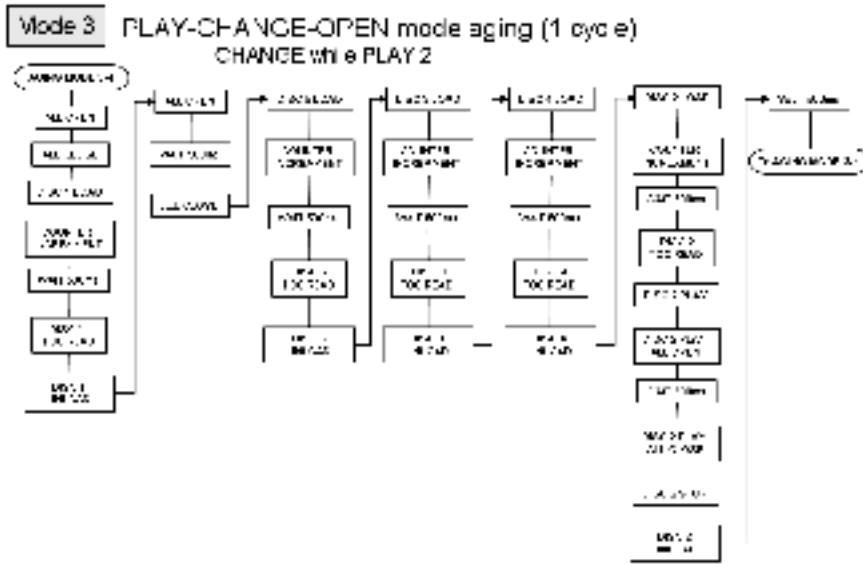
| Item | | FL Display | Key Operation |
|---------------------|---|--|--|
| Mode Name | Description | | Front Key |
| Clock Setting Check | To indicate that a clock time was set properly. |  | In doctor mode: 1. Press [MUTING] button on remote control. To exit, press [ENTER] button on remote control or press [Φ/I, POWER] button on main unit or remote control. |
| Volume Setting | To check for volume setting during this mode. | Display 1  | In doctor mode: 1. Press [7] button on remote control. To exit, press [ENTER] button on remote control or press [Φ/I, POWER] button on main unit or remote control. |
| | | Display 1  | In doctor mode: 2. Press [8] button on remote control. To exit, press [ENTER] button on remote control or press [Φ/I, POWER] button on main unit or remote control. |
| | | Display 1  | In doctor mode: 3. Press [9] button on remote control. To exit, press [ENTER] button on remote control or press [Φ/I, POWER] button on main unit or remote control. |

9.2.4. Reliability Test Mode (CRS1 Mechanism)

Below is the process flow chart of ageing for the CD changer unit. (CRS1)







9.3. Error code Table Display

Self-Diagnosis Function (refer Section 9.2) provides information on any problems occurring for the unit and its respective components by displaying the error codes. These error code such as U**, H** and F** are stored in memory and held unless it is cleared.

The error code is automatically display after entering into self-diagnostic mode

9.3.1. Error Code Table for Deck Mechanism

| Error Code | Diagnosis Contents | Description of error | Automatic FL Display | Remarks |
|------------|--|--|----------------------|--|
| H01 | Mode switch abnormal (Plunger and capstan motor) | Detection of switch for "On" when the deck mechanism is in the driving mode. Detection time at 1.6ms in 6 times interval | H01 | For Deck Mechanism Unit (Deck 1/2) Press [STOP] on main unit for next error. To exit, press [POWER] button on main unit. Normal operation shall executed upon next powering on of the main unit. |
| H02 | REC_INHFswitch abnormal | Detection of switch for presence of the FORWARD recording tab when a cassette is loaded into the deck. Detection time is 20ms at 2 times interval. | H02 | For Deck Mechanism Unit (Deck 1/2) Press [STOP] on main unit for next error. To exit, press [POWER] button on main unit. Normal operation shall executed upon next powering on of the main unit. |
| H03 | HALF switch abnormal | Detection of switch for "ON" state when a cassette is loaded into the deck. Detection time is 20ms at 2 times interval. When no cassette is loaded, it shall be in "OFF" state | H03 | For Deck Mechanism Unit (Deck 1/2) Press [STOP] on main unit for next error. To exit, press [POWER] button on main unit. Normal operation shall executed upon next powering on of the main unit. |
| F01 | Reel pulse abnormal | Detection of switch for the reel pulse signal toggling between high and low. | F01 | For Deck Mechanism Unit (Deck 1/2) Press [STOP] on main unit for next error. To exit, press [POWER] button on main unit. Normal operation shall executed upon next powering on of the main unit. |
| F02 | TPS abnormal | Tape position detection signal. It is abnormal condition when the tape ends before the checking is completed | F02 | For Deck Mechanism Unit (Deck 1/2) Press [STOP] on main unit for next error. To exit, press [POWER] button on main unit. Normal operation shall executed upon next powering on of the main unit. |

9.3.2. Error Code Table For CD Changer Block

| Error Code | Diagnosis Contents | Description of error | Automatic FL Display | Remarks |
|------------|--|---|---|---|
| F15 | RESET SW abnormal | RESET SW, ON is not deleted within the specified time. |  | For CD unit (For Traverse). Press [STOP, ■] on main unit for next error. |
| F26 | Transmission error between CD Servo LSI IC and microprocessor IC | When set to CD mode, the sense signal does not turn "Low", a fail-safe time after system command transmission is set. |  | For CD unit (For Traverse). Press [STOP, ■] on main unit for next error. |
| IHMS | Cam gear abnormality | Cam gear does not rotate to "HOME" position. |  | For CD changer unit (CRS1). Press [SINGLE CHANGE] on main unit for next error. |
| ICSL | Cam gear/gear units abnormal | Cam gear does not move to "PLAY" driving position and hence does not drive playing tray to "STOCK" position. |  | For CD changer unit (CRS1). Press [SINGLE CHANGE] on main unit for next error. |

| Error Code | Diagnosis Contents | Description of error | Automatic FL Display | Remarks |
|------------|-----------------------------------|---|----------------------|---|
| ISTK | Drive rack/gear assembly abnormal | The tray drive rack does not move to "STOCK" position. (Tray does not move to "STOCK" position) | ISTK | For CD changer unit (CRS1). Press [SINGLE CHANGE] on main unit for next error. |
| IPLY | Drive rack/gear assembly abnormal | The tray drive rack does not move to "PLAY" position. (Tray does not move to "PLAY" position) | IPLY | For CD changer unit (CRS1). Press [SINGLE CHANGE] on main unit for next error. |
| ITOP | UD assembly | UD Rack does not move to front direction. This lead to UD base not raise to up position. | ITOP | For CD changer unit (CRS1). Press [SINGLE CHANGE] on main unit for next error. |
| IUDS | UD assembly | After TOP SW is detected, UD rack does not move into tray 1 position. | IUDS | For CD changer unit (CRS1). Press [SINGLE CHANGE] on main unit for next error. |
| HOME | Cam gear/gear assembly abnormal | Cam gear does not move to "HOME" position under following conditions 1. After tray is load to "PLAY" position. 2. After tray is unload to "STOCK" position. | HOME | For CD changer unit (CRS1). Press [SINGLE CHANGE] on main unit for next error. |
| LOAD | Tray drive assembly abnormal | Tray unit does not move from "STOCK" to "PLAY" position | LOAD | For CD changer unit (CRS1). Press [SINGLE CHANGE] on main unit for next error. |
| UNLD | Tray drive assembly abnormal | Tray unit does not move from "PLAY" to "STOCK" position | UNLD | For CD changer unit (CRS1). Press [SINGLE CHANGE] on main unit for next error. |

| Error Code | Diagnosis Contents | Description of error | Automatic FL Display | Remarks |
|------------|--|---|----------------------|--|
| P0RV | Cam gear/gear assembly abnormal | Cam gear does not move from 'HOME' to 'PLAY' drive position. | P0RV | For CD changer unit (CRS1). Press [SINGLE CHANGE] on main unit for next error. |
| UDU | UD base assembly abnormal | UD Base assembly does not move upwards from tray 5 to tray 2 | UDU | For CD changer unit (CRS1). Press [SINGLE CHANGE] on main unit for next error. |
| UDC | UD base assembly abnormal | UD Base assembly does not move downwards from tray 1 to tray 5. | UDC | For CD changer unit (CRS1). Press [SINGLE CHANGE] on main unit for next error. |
| F1NC | Fail-safe mode (For open/close tray unit(s)) | When the tray open operation is performed, it fails to open. It will automatically close all trays after the time-out by the microprocessor. During this time when it fails, the error code will appear. | F1NC | For CD changer unit (CRS1). Press [SINGLE CHANGE] on main unit for next error. |
| F2NC | Fail-safe mode (For open/close tray unit(s)) | When the tray close operation is performed, it fails to close. It will automatically open all trays after the time-out by the microprocessor. During this time when it fails, the error code will appear. | F2NC | For CD changer unit (CRS1). Press [SINGLE CHANGE] on main unit for next error. |
| SRVC_TRV | To unlock the reverse unit for service | 1. All trays set to 'STOCK' position 2. Mechanism set to tray 5 3. Cam gear set to 'HOME' position | SRVC_TRV | For CD changer unit (CRS1). Press [SINGLE CHANGE] on main unit for next error. |
| RSET | Cam gear joint/knee sensor faulty | During tray re-open, the cam gear will rotate in the opposite direction to reset the cam gear position. When it fails, the error code will appear. | RSET | For CD changer unit (CRS1). Press [SINGLE CHANGE] on main unit for next error. |

9.3.3. Error Code Table For Power Supply

| Error Code | Diagnosis Contents | Description of error | Automatic FL Display | Remarks |
|------------|------------------------------|--|----------------------|--|
| F61 | Power Amp IC output abnormal | Upon power on, PCONT-HIGH, DCDET-L after checking LSI. | F61 | For power. Press [STOP, ■] on main unit for next error. |

9.3.4. CRS1 Error Code display

CRS1 Error Code display

1. The errors that occurred in CRS1 Mechanism can be recalled and displayed, in the order of the occurrence under self-diagnostic for procedures to enter this mode.

- Only the first 5 errors will be memorized (in backup memory). The subsequent error shall be ignored and not memorized.

For system with EEPROM as memory backup, memory space in EEPROM is necessary.

2. To display all error code memorized

In CRS1 Self-Diagnostic mode, press [SINGLE CHANGE] to display subsequent error code.

It shall repeat after reaching error no. 5.

e.g.:

[1 _ _ _ _ I H M S] → [SINGLE CHANGE]

[2 _ _ _ _ I T O P] → [SINGLE CHANGE]

[3 _ _ _ _ H O M E] → [SINGLE CHANGE]

[4 _ _ _ _ L O A D] → [SINGLE CHANGE]

[5 _ _ _ _ U D D] → [SINGLE CHANGE]

3. To clear the error code memory

In CRS1 Self-Diagnostic mode, long press [SINGLE CHANGE] key (2s or more)

10 Assembling and Disassembling

“ATTENTION SERVICER”

Be careful when disassembling and servicing.

Some chassis components may have sharp edges.

Special Note:

1. This model uses a CD changer mechanism unit (CRS1). In this following section does not contain the necessary assembly and disassembly information except the assembly and disassembly of the traverse unit. Kindly refer to the original service manual for the CD changer mechanism unit. (Order No. MD0509368C0).
2. This section describes the disassembly procedures for all the major printed circuit boards and main components.
3. Before the disassembly process was carried out, do take special note that all safety precautions are to be carried out. (Ensure that no AC power supply is connected during disassembling.)
4. For assembly after operation checks or replacement, reverse the respective procedures.
Special reassembly procedures are described only when required.
5. The Switch Regulator IC may have high temperature after prolonged use.
6. Use caution when removing the top cabinet and avoid touching heat sinks located in the unit.

**CAUTION: HOT!!
PLEASE DO NOT
TOUCH THE HEAT SINK**

7. Select items from the following index when checks or replacement are required.

- Disassembly of Top Cabinet
- Disassembly of CD Changer Unit (CRS1)
- Disassembly of Subwoofer Interface P.C.B
- Disassembly of Rear Panel
- Disassembly of Transformer P.C.B
- Disassembly of Main P.C.B
- Disassembly of Sub Power P.C.B
- Replacement of Regulator IC (IC5101)
- Replacement of Regulator Transistor (Q5111)
- Replacement of Regulator Transistor (Q5112)
- Replacement of Regulator Transistor (Q5105)
- Replacement of Regulator Transistor (Q5106)
- Disassembly of Power P.C.B
- Replacement of Digital-Amp IC (IC5300)
- Replacement of Digital-Amp IC (IC5200)
- Replacement of Digital-Amp IC (IC5000)
- Replacement of Digital-Amp IC (IC5400)
- Disassembly of Front Panel
- Disassembly of USB P.C.B
- Disassembly of Panel P.C.B, Remote Sensor P.C.B & Sub Panel P.C.B
- Disassembly of Deck Mechanism Unit
- Disassembly for Deck P.C.B
- Disassembly of Deck Mechanism
- Disassembly of Traverse Unit
- Disassembly CD Lid
- Disassembly Cassette Lid
- Rectification for Tape Jam Problem

CAUTION NOTE:

Please use original screws and at correct locations.

Below shown is the part no. of different screw types used.

a : RHD30007-K2J **f** : XTV3410GFJ-M

b : XTW3410TFC **g** : XTW3412TFJ

c : RHD30119-S **h** : RHD26046-I

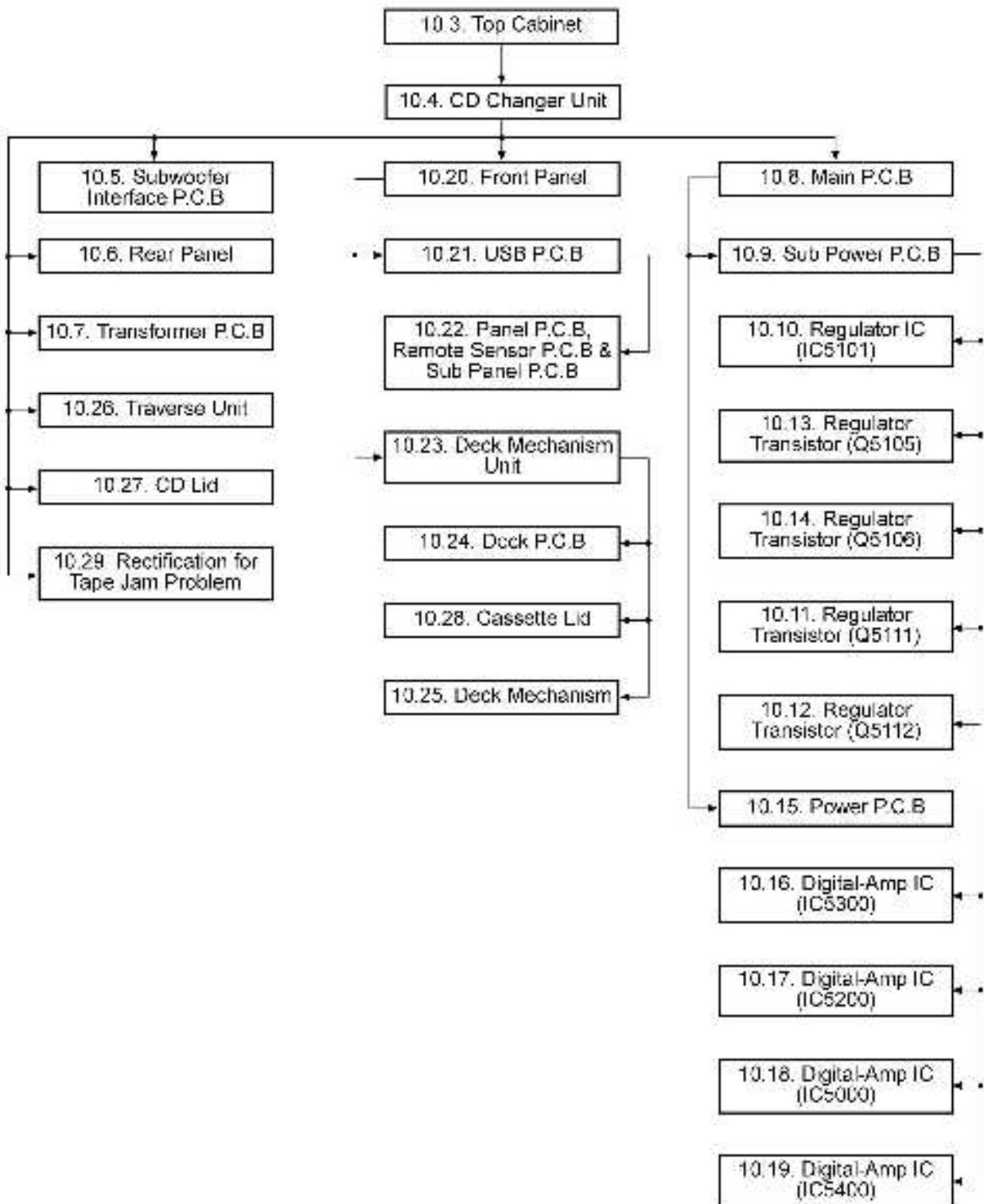
d : XTW308TFJ **i** : XTW245LFJ

e : RHD30111-3 **j** : XTW26110SFJ

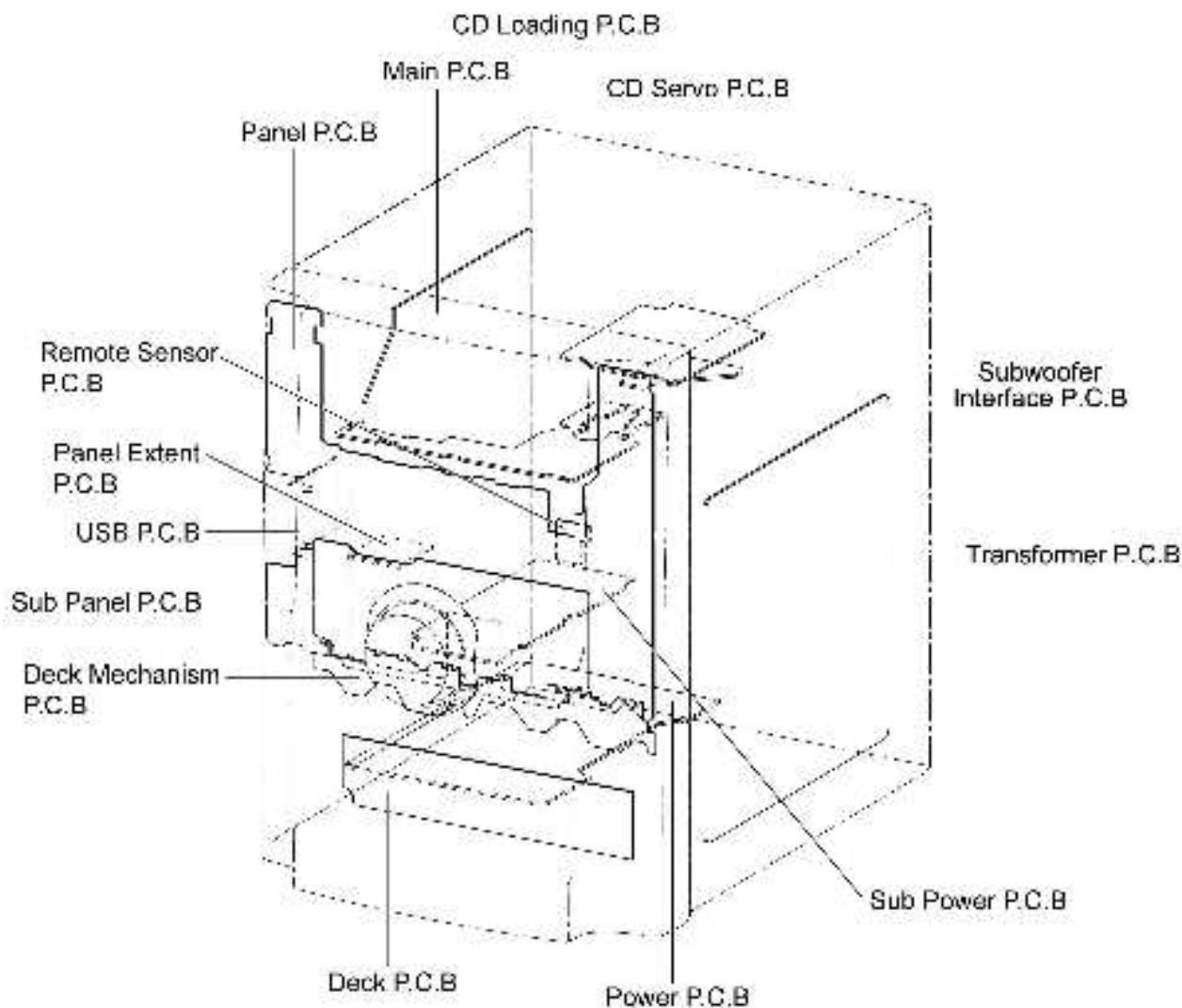
10.1. Disassembly flow chart

The following chart is the procedure for disassembling the casing and inside parts for internal inspection when carrying out the servicing.

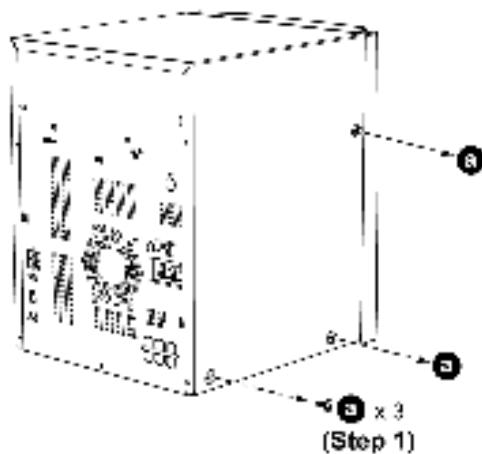
To assemble the unit, reverse the steps shown in the chart below.



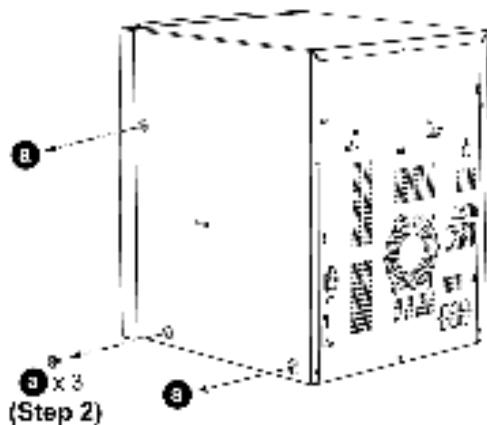
10.2. Main Parts Location Diagram



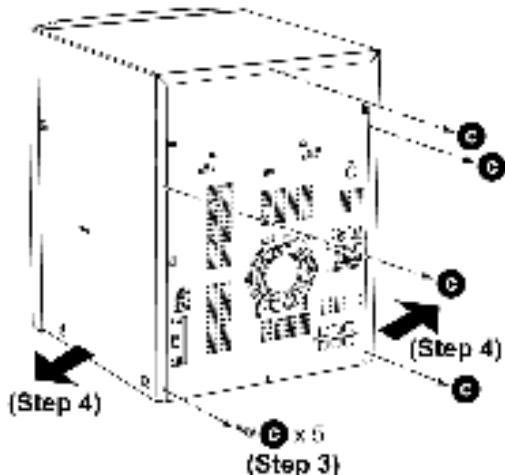
10.3. Disassembly of Top Cabinet



Step 1 : Remove 3 screws on Top Cabinet (L) side.

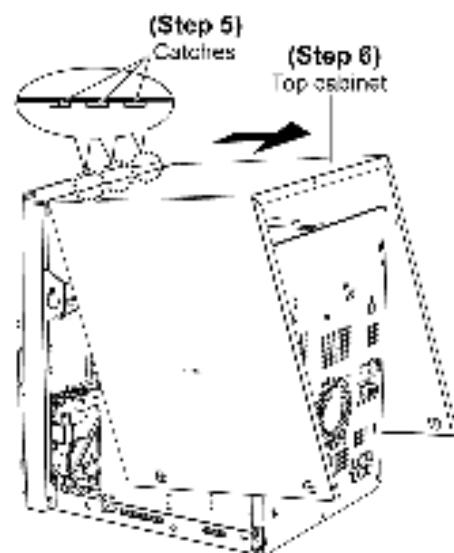


Step 2 : Remove 3 screws on Top Cabinet (R) side.



Step 3 : Remove 5 screws.

Step 4 : Lift the both sides of Top Cabinet outwards.

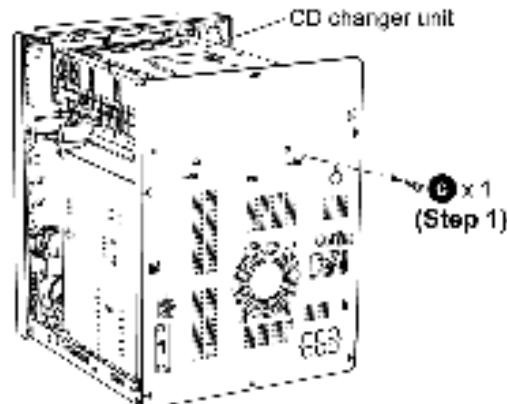


Step 5 : Push the Top Cabinet backwards to release catches.

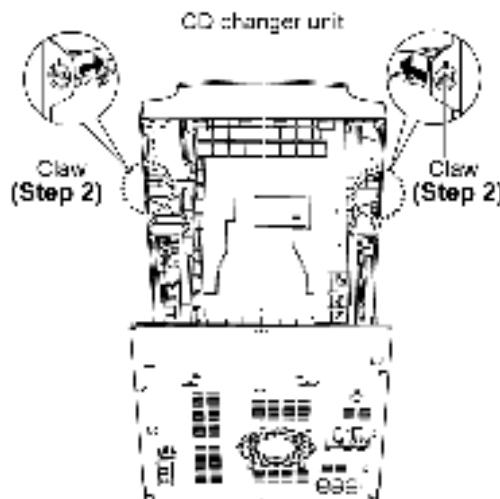
Step 6 : Remove Top Cabinet.

10.4. Disassembly of CD Changer Unit (CRS1)

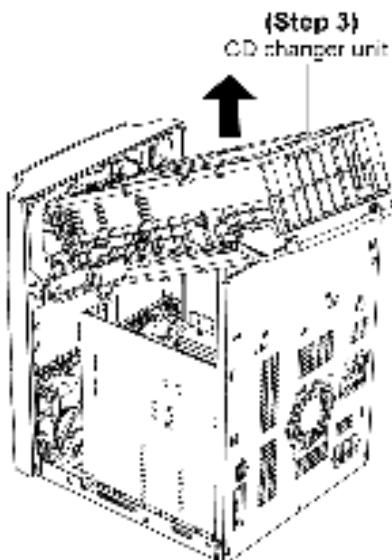
- Follow the (Step 1) - (Step 6) of Item 10.3



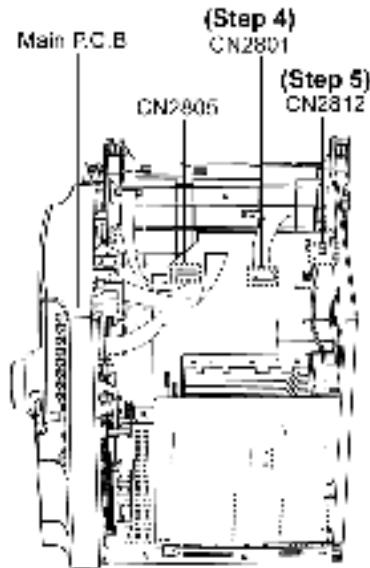
Step 1 : Remove 1 screw.



Step 2 : Release the claws outwards on both ends.



Step 3 : Lift up the CD changer unit upwards.

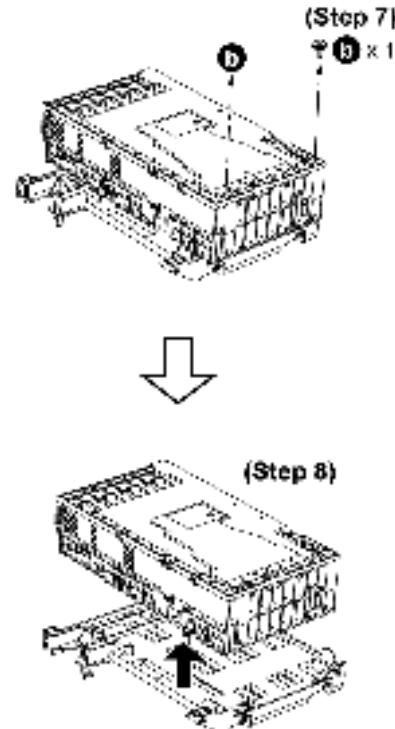


Step 4 : Detach FFC cable at the connectors (CN2805 & CN2801) on Main P.C.B.

Step 5 : Detach cable at the connector (CN2812) on Main P.C.B.

Step 6 : Remove CD changer unit (with chassis).

- **Disassembly of CD changer mechanism**



Step 7 : Remove 2 screws.

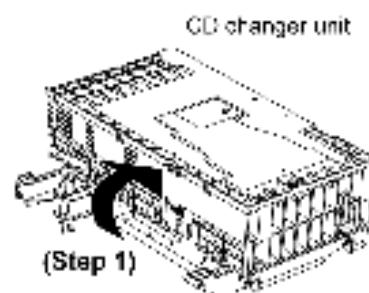
Step 8 : Remove the CD changer mechanism as arrow shown.

Note:

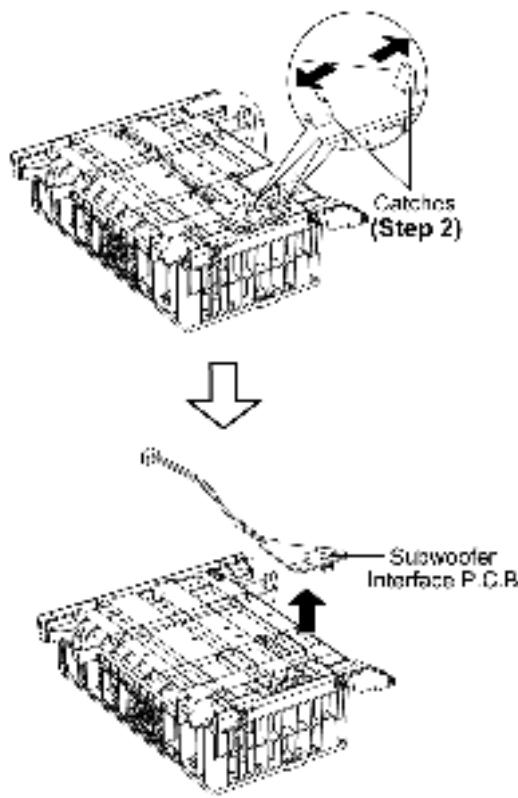
For disassembly & assembly of traverse unit, please refer to section 10.26 of this service manual. Please refer to original Service Manual for the Disassembly and Assembly of the CD Changer Unit (CRS1).

10.5. Disassembly of Subwoofer Interface P.C.B

- Follow the (Step 1) - (Step 6) of Item 10.3
- Follow the (Step 1) - (Step 6) of Item 10.4



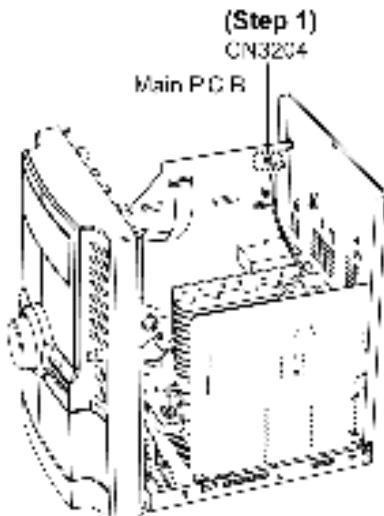
Step 1 : Upset the CD changer mechanism.



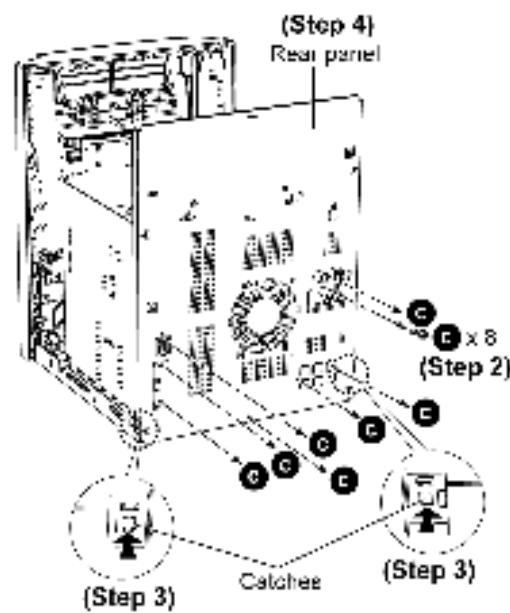
Step 2 : Release 2 catches and remove Subwoofer Interface P.C.B as arrow shown.

10.6. Disassembly of Rear Panel

- Follow the (Step 1) - (Step 6) of Item 10.3
- Follow the (Step 1) - (Step 6) of Item 10.4



Step 1 : Detach connector (CN3204) on Main P.C.B.



Step 2 : Remove 8 screws.

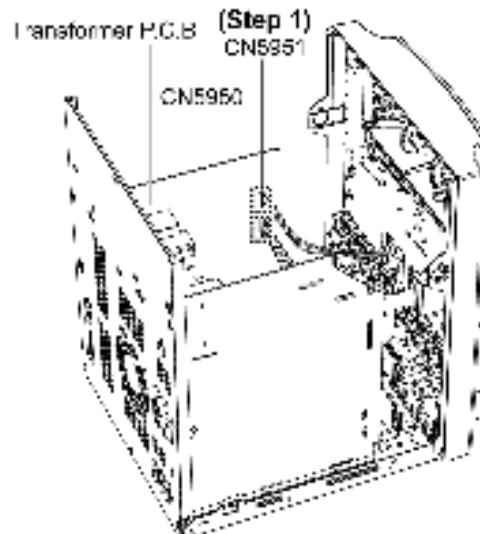
Step 3 : Release 2 catches.

Step 4 : Remove Rear Panel.

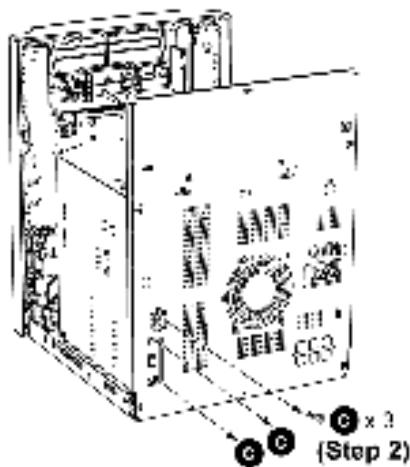
10.7. Disassembly of Transformer P.C.B

- Follow the (Step 1) - (Step 6) of Item 10.3
- Follow the (Step 1) - (Step 6) of Item 10.4

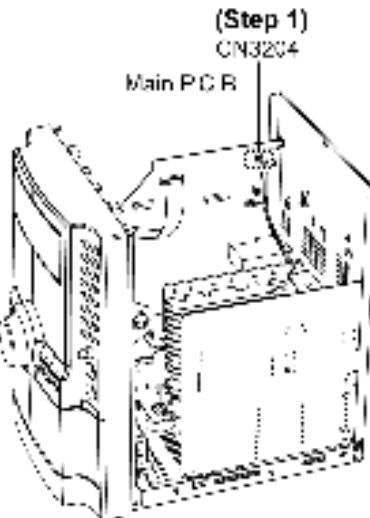
**CAUTION: HOT!!
DO NOT TOUCH THE
HEAT SINK**



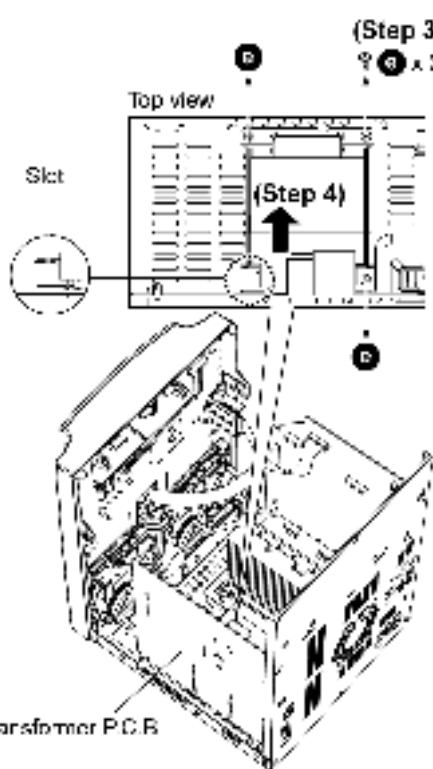
Step 1 : Detach cable at the connectors (CN5950 & CN5951) on Transformer P.C.B.



Step 2 : Remove 3 screws.



Step 1 : Detach connector (CN3204) on Main P.C.B.

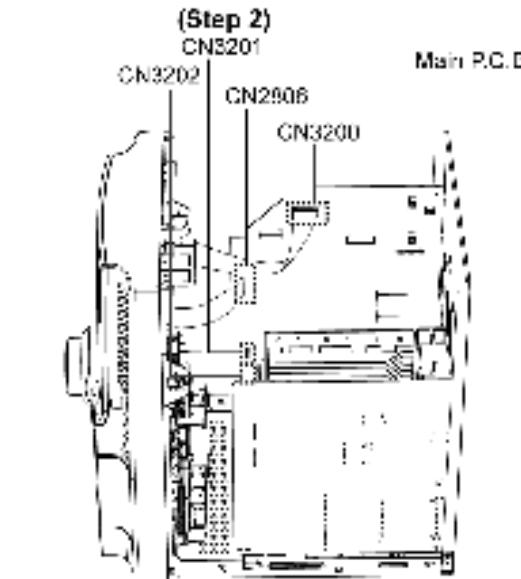


Step 3 : Remove 3 screws (Mounting screws for transformer to bottom chassis).

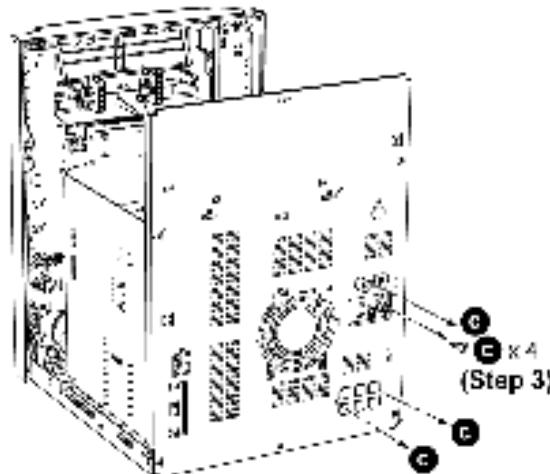
Step 4 : Push the Transformer P.C.B backwards to remove it.

10.8. Disassembly of Main P.C.B

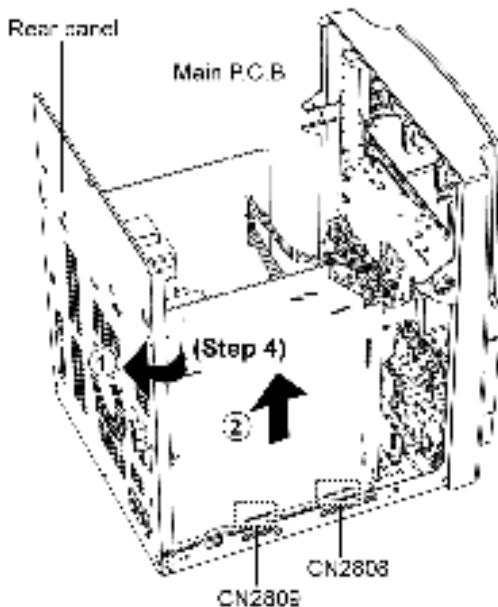
- Follow the (Step 1) - (Step 6) of Item 10.3
- Follow the (Step 1) - (Step 6) of Item 10.4



Step 2 : Detach FFC cable at the connectors (CN2806, CN3200, CN3201 & CN3202) on Main P.C.B.



Step 3 : Remove 4 screws.



Step 4 : Slightly pull out the rear panel as arrow (1) shown and lift up the Main P.C.B as arrow (2) shown to remove It.

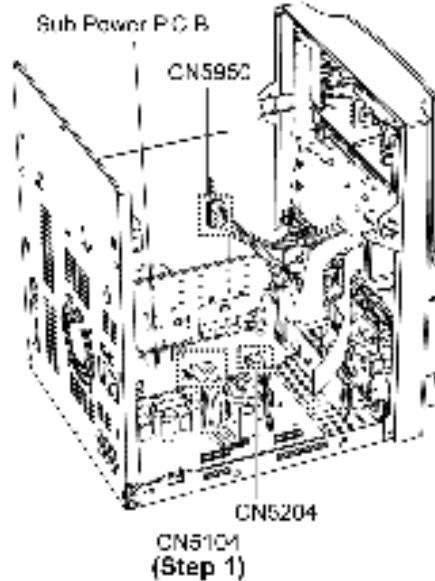
Caution:

Do not exert strong force when disassembly Main P.C.B as it may damage Power P.C.B.

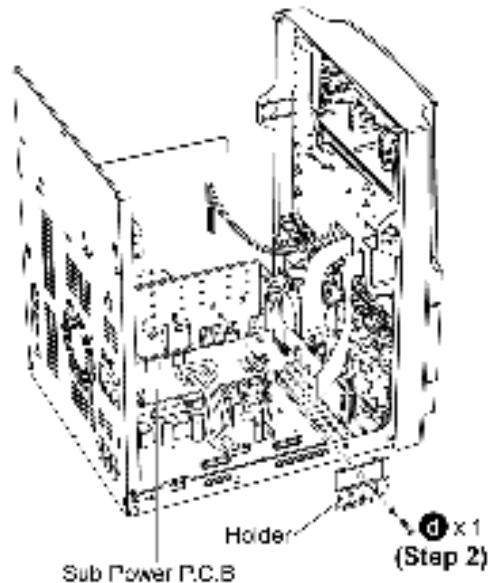
10.9. Disassembly of Sub Power P.C.B

- Follow the (Step 1) - (Step 6) of Item 10.3
- Follow the (Step 1) - (Step 6) of Item 10.4
- Follow the (Step 1) - (Step 4) of Item 10.8

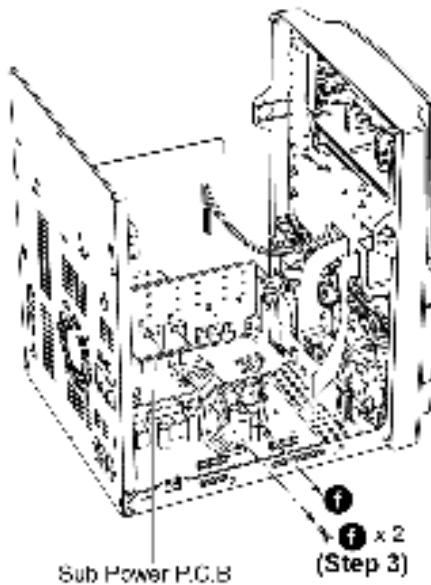
**CAUTION: HOT!!
DO NOT TOUCH THE
HEAT SINK**



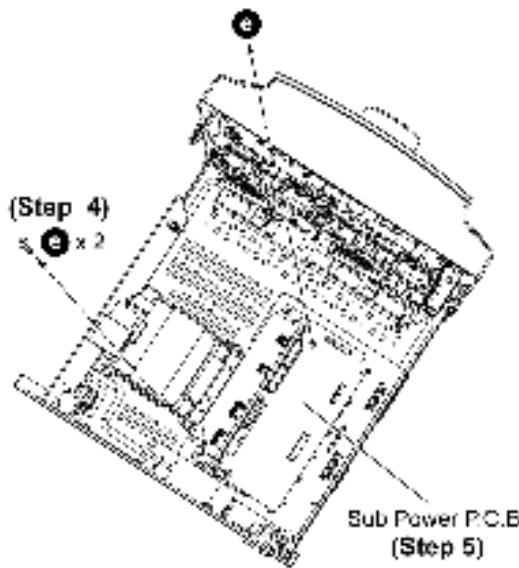
Step 1 : Detach cable at the connectors (CN5104 & CN5204) on Sub Power P.C.B and cable at the connector (CN5950) on Transformer P.C.B.



Step 2 : Remove 1 screw for remove holder.



Step 3 : Remove 2 screws (Regulator Transistor).



Step 4 : Remove 2 screws.

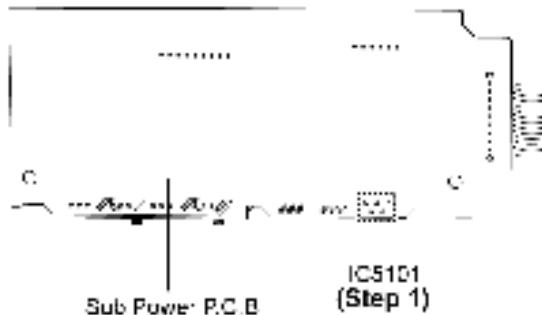
Step 5 : Remove Sub Power P.C.B.

Note:

Insulate the Sub Power P.C.B with insulation material to avoid short circuit.

10.10. Replacement of Regulator IC (IC5101)

- Follow the (Step 1) - (Step 6) of Item 10.3
- Follow the (Step 1) - (Step 6) of Item 10.4
- Follow the (Step 1) - (Step 4) of Item 10.6
- Follow the (Step 1) - (Step 4) of Item 10.8
- Follow the (Step 1) - (Step 5) of Item 10.9

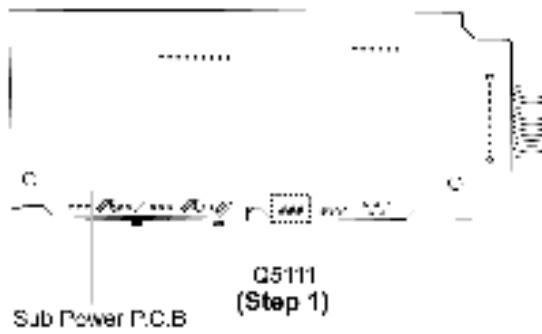


Step 1 : Flip over the Sub Power P.C.B and desolder the pins of IC5101.

Step 2 : Remove the regulator IC.

10.11. Replacement of Regulator Transistor (Q5111)

- Follow the (Step 1) - (Step 6) of Item 10.3
- Follow the (Step 1) - (Step 6) of Item 10.4
- Follow the (Step 1) - (Step 4) of Item 10.6
- Follow the (Step 1) - (Step 4) of Item 10.8
- Follow the (Step 1) - (Step 5) of Item 10.9

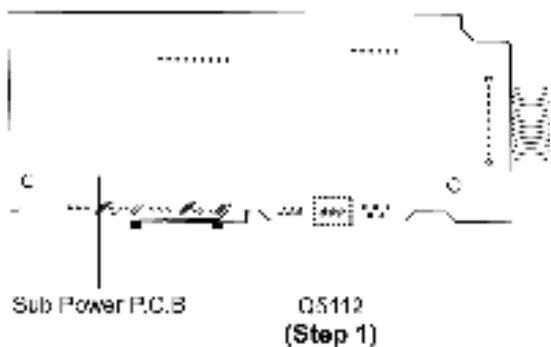


Step 1 : Flip over the Sub Power P.C.B and desolder the pins of Q5111.

Step 2 : Remove the regulator transistor.

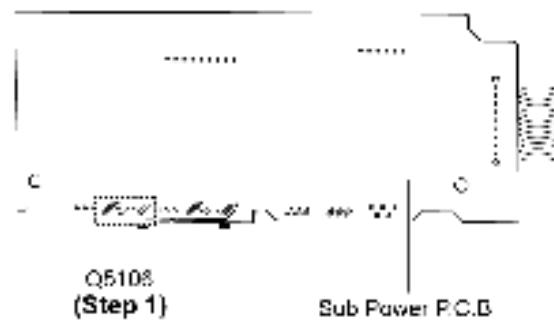
10.12. Replacement of Regulator Transistor (Q5112)

- Follow the (Step 1) - (Step 6) of Item 10.3
- Follow the (Step 1) - (Step 6) of Item 10.4
- Follow the (Step 1) - (Step 4) of Item 10.6
- Follow the (Step 1) - (Step 4) of Item 10.8
- Follow the (Step 1) - (Step 5) of Item 10.9



Step 1 : Flip over the Sub Power P.C.B and desolder the pins of Q5112.

Step 2 : Remove the regulator transistor.

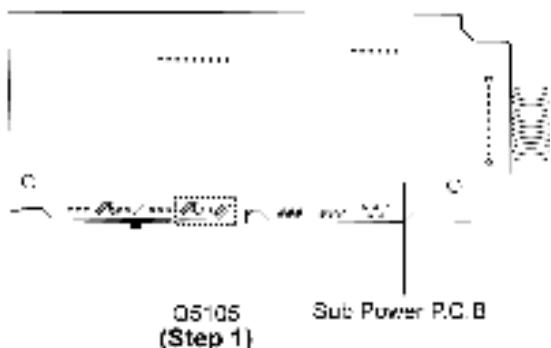


Step 1 : Flip over the Sub Power P.C.B and desolder the pins of Q5106.

Step 2 : Remove the regulator transistor.

10.13. Replacement of Regulator Transistor (Q5105)

- Follow the (Step 1) - (Step 6) of Item 10.3
- Follow the (Step 1) - (Step 6) of Item 10.4
- Follow the (Step 1) - (Step 4) of Item 10.6
- Follow the (Step 1) - (Step 4) of Item 10.8
- Follow the (Step 1) - (Step 5) of Item 10.9



Step 1 : Flip over the Sub Power P.C.B and desolder the pins of Q5105.

Step 2 : Remove the regulator transistor.

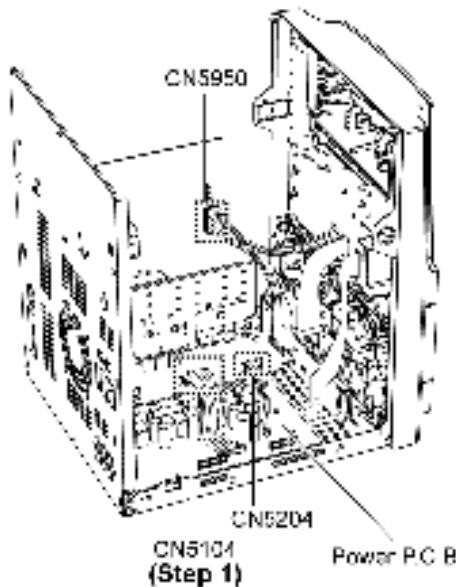
10.14. Replacement of Regulator Transistor (Q5106)

- Follow the (Step 1) - (Step 6) of Item 10.3
- Follow the (Step 1) - (Step 6) of Item 10.4
- Follow the (Step 1) - (Step 4) of Item 10.6
- Follow the (Step 1) - (Step 4) of Item 10.8
- Follow the (Step 1) - (Step 5) of Item 10.9

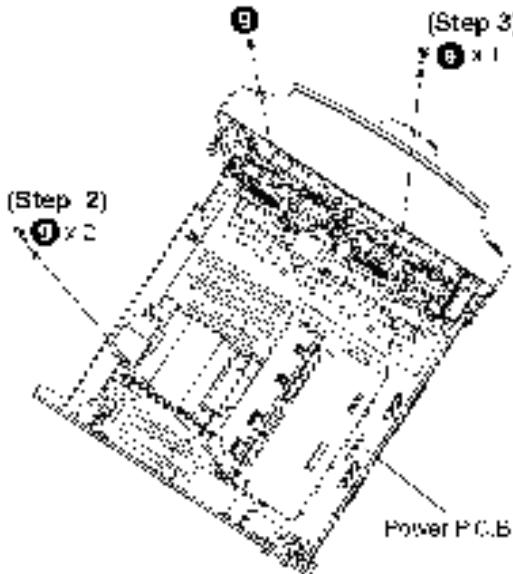
10.15. Disassembly of Power P.C.B

- Follow the (Step 1) - (Step 6) of Item 10.3
- Follow the (Step 1) - (Step 6) of Item 10.4
- Follow the (Step 1) - (Step 4) of Item 10.8

**CAUTION: HOT!!
DO NOT TOUCH THE
HEAT SINK**



Step 1 : Detach cable at the connectors (CN5104 & CN5204) on Sub Power P.C.B and cable at the connector (CN5950) on Transformer P.C.B.



Step 2 : Remove 2 screws.

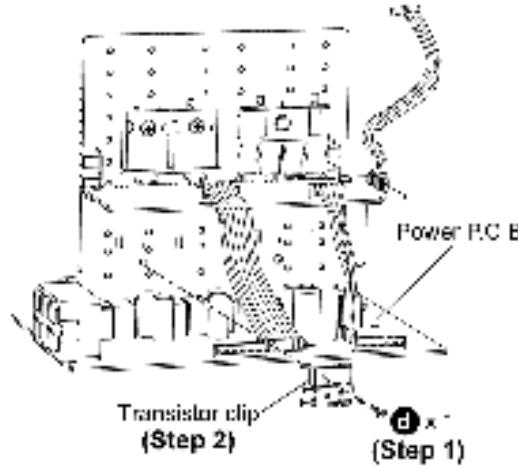
Step 3 : Remove 1 screw and remove Power P.C.B.

Note:

Insulate the Power P.C.B. with insulation material to avoid short circuit.

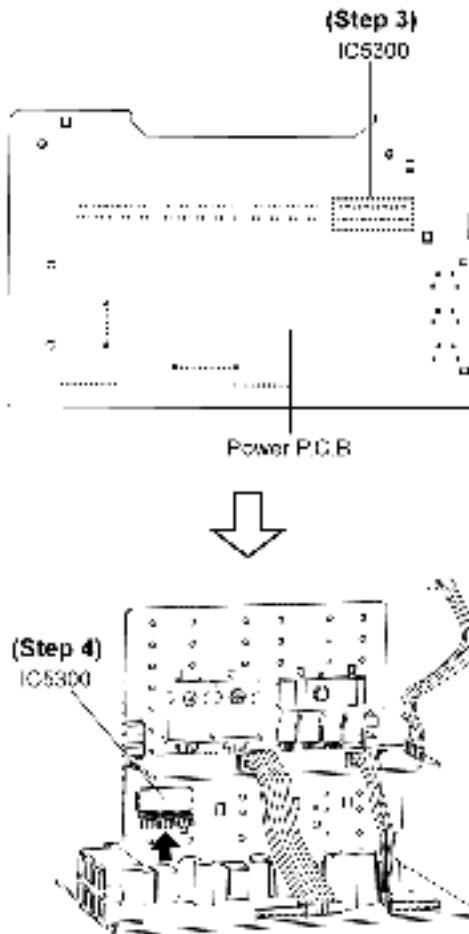
10.16. Replacement of Digital-Amp IC (IC5300)

- Follow the (Step 1) - (Step 6) of Item 10.3
- Follow the (Step 1) - (Step 6) of Item 10.4
- Follow the (Step 1) - (Step 4) of Item 10.6
- Follow the (Step 1) - (Step 4) of Item 10.8
- Follow the (Step 1) - (Step 3) of Item 10.15



Step 1 : Remove 1 screw.

Step 2 : Remove transistor clip.



Step 3 : Flip over the Power P.C.B and desolder the pins.

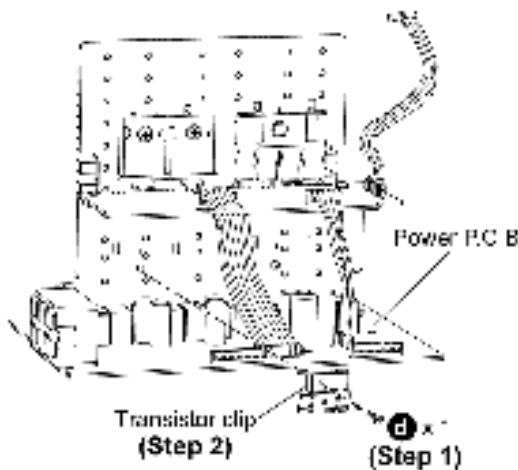
Step 4 : Remove IC5300.

Caution Note :

Apply bond at Digital-Amp IC during assembly. Ensure the IC is seated properly with the transistor clip assembled to the heat sink unit

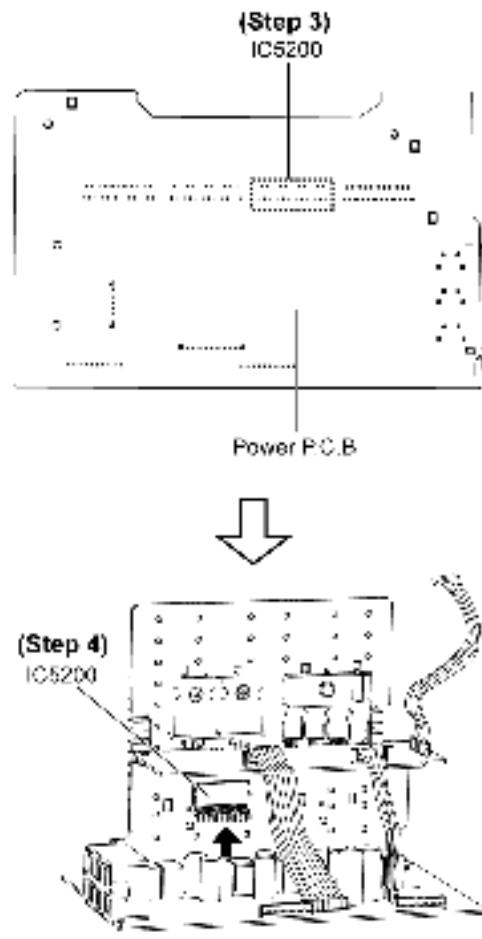
10.17. Replacement of Digital-Amp IC (IC5200)

- Follow the (Step 1) - (Step 6) of Item 10.3
- Follow the (Step 1) - (Step 6) of Item 10.4
- Follow the (Step 1) - (Step 4) of Item 10.6
- Follow the (Step 1) - (Step 4) of Item 10.8
- Follow the (Step 1) - (Step 3) of Item 10.15



Step 1 : Remove 1 screw.

Step 2 : Remove transistor clip.



Step 3 : Flip over the Power P.C.B and desolder the pins.

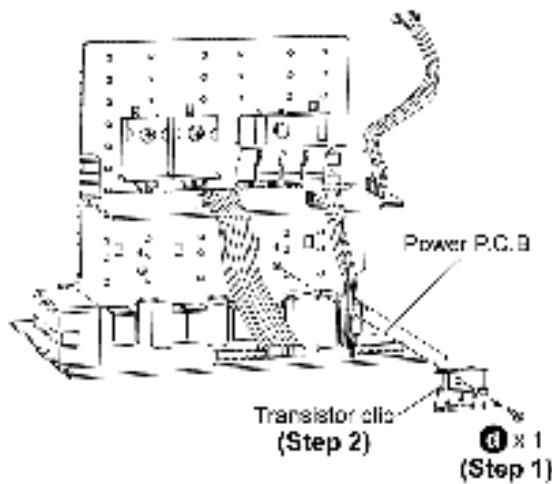
Step 4 : Remove IC5200.

Caution Note :

Apply bond at Digital-Amp IC during assembly. Ensure the IC is seated properly with the transistor clip assembled to the heat sink unit

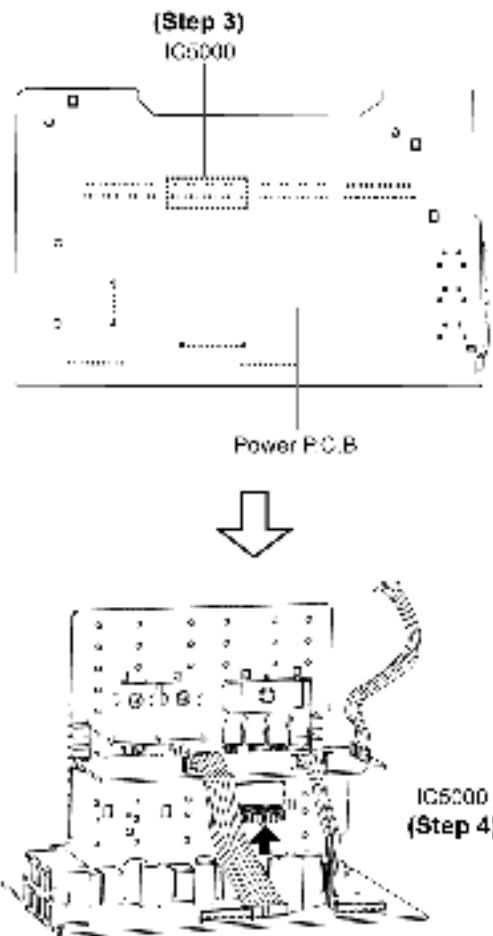
10.18. Replacement of Digital-Amp IC (IC5000)

- Follow the (Step 1) - (Step 6) of Item 10.3
- Follow the (Step 1) - (Step 6) of Item 10.4
- Follow the (Step 1) - (Step 4) of Item 10.6
- Follow the (Step 1) - (Step 4) of Item 10.8
- Follow the (Step 1) - (Step 3) of Item 10.15



Step 1 : Remove 1 screw.

Step 2 : Remove transistor clip.



Step 3 : Flip over the Power P.C.B and desolder the pins.

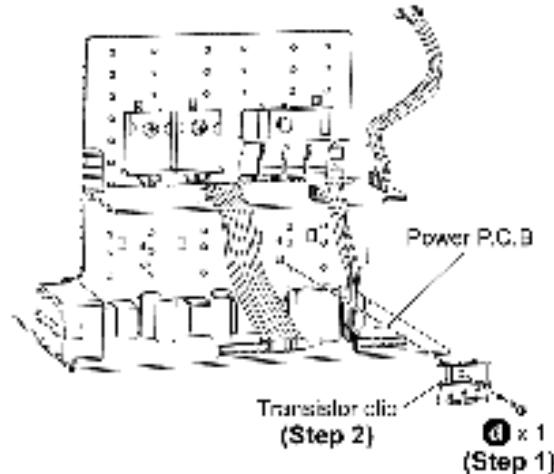
Step 4 : Remove IC5000.

Caution Note :

Apply bond at Digital-Amp IC during assembly. Ensure the IC is seated properly with the transistor clip assembled to the heat sink unit

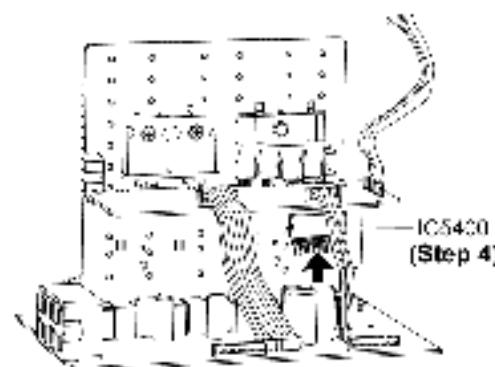
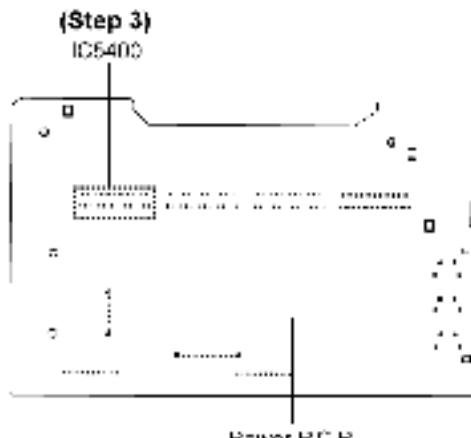
10.19. Replacement of Digital-Amp IC (IC5400)

- Follow the (Step 1) - (Step 6) of Item 10.3
- Follow the (Step 1) - (Step 6) of Item 10.4
- Follow the (Step 1) - (Step 4) of Item 10.6
- Follow the (Step 1) - (Step 4) of Item 10.8
- Follow the (Step 1) - (Step 3) of Item 10.15



Step 1 : Remove 1 screw.

Step 2 : Remove transistor clip.



Step 3 : Flip over the Power P.C.B and desolder the pins.

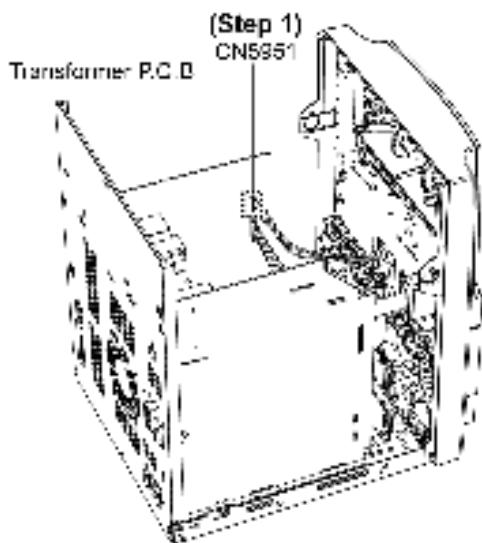
Step 4 : Remove IC5400.

Caution Note :

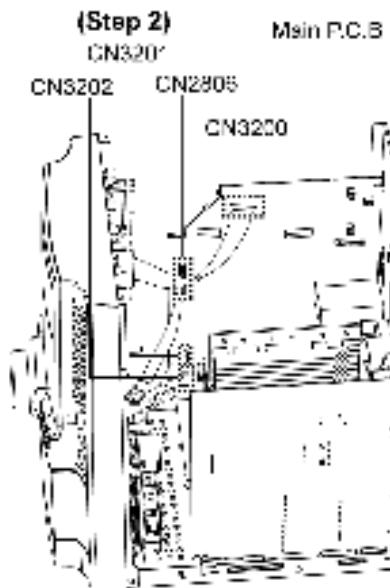
Apply bond at Digital-Amp IC during assembly. Ensure the IC is seated properly with the transistor clip assembled to the heat sink unit

10.20. Disassembly of Front Panel

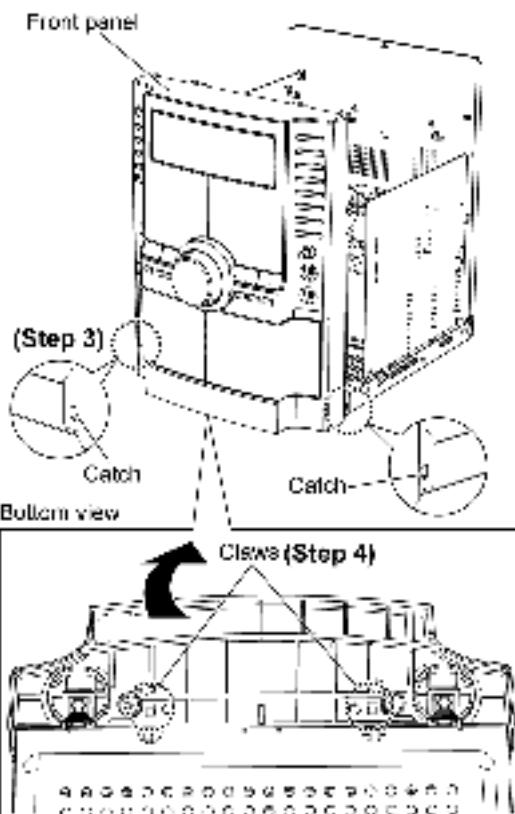
- Follow the (Step 1) - (Step 6) of Item 10.3
- Follow the (Step 1) - (Step 6) of Item 10.4



Step 1 : Detach cable at the connector (CN5951) on Transformer P.C.B.



Step 2 : Detach FFC cable at the connectors (CN2806, CN3200, CN3201 & CN3202) on Main P.C.B.



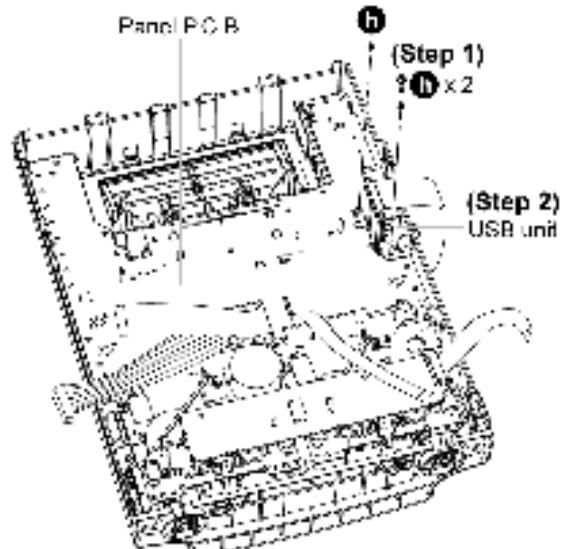
Step 3 : Release 2 catches.

Step 4 : Bend the front panel slightly forward to remove front panel.

Note: Ensure 2 claws located at the bottom chassis is seated into the 2 slots at bottom of front panel at 2 catches (one on each side) of bottom chassis to be aligned to front panel slot. Assembly is secured upon hearing clicking sound.

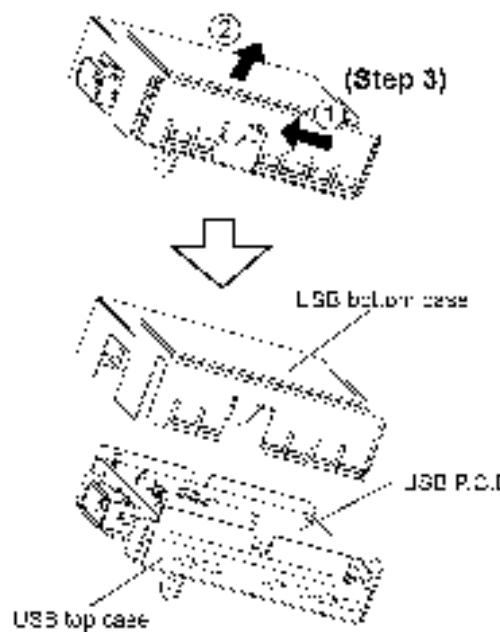
10.21. Disassembly of USB P.C.B

- Follow the (Step 1) - (Step 6) of Item 10.3
- Follow the (Step 1) - (Step 6) of Item 10.4
- Follow the (Step 1) - (Step 4) of Item 10.20

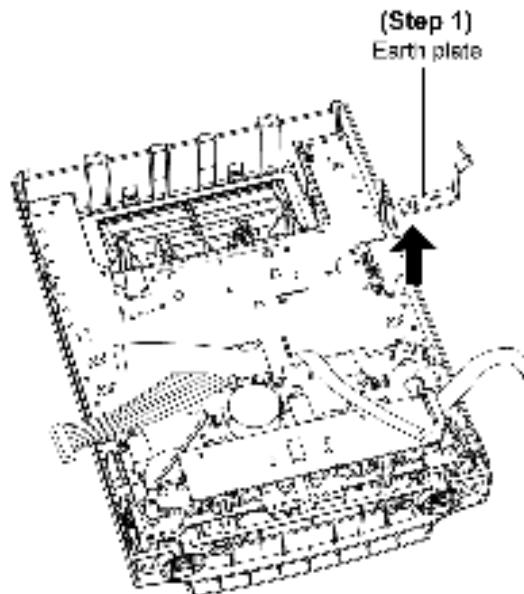


Step 1 : Remove 2 screws.

Step 2 : Remove USB unit.

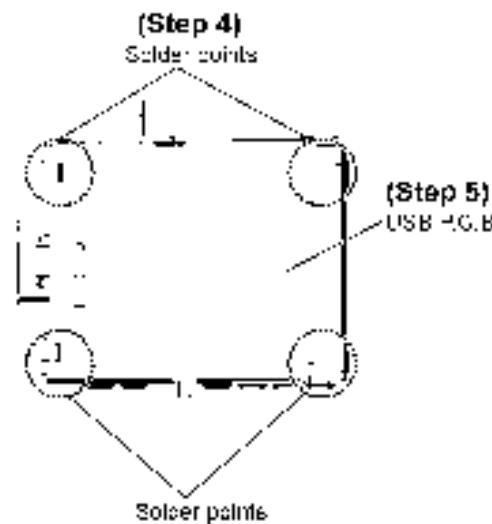


Step 3 : Remove USB bottom case as arrow shown (1)→(2).



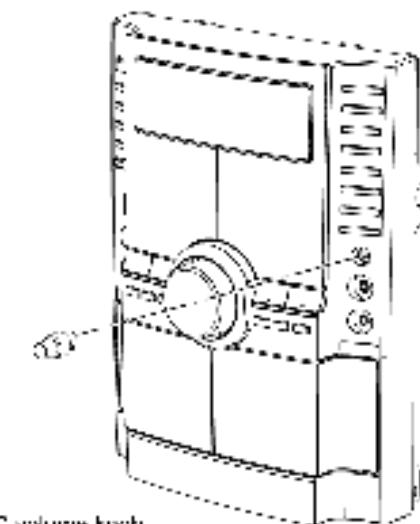
Step 1 : Remove the Earth Plate.

Note: Do not misplace the Earth Plate. Keep in safe place for assembling.



Step 4 : Desolder 4 points.

Step 5 : Remove USB P.C.B.

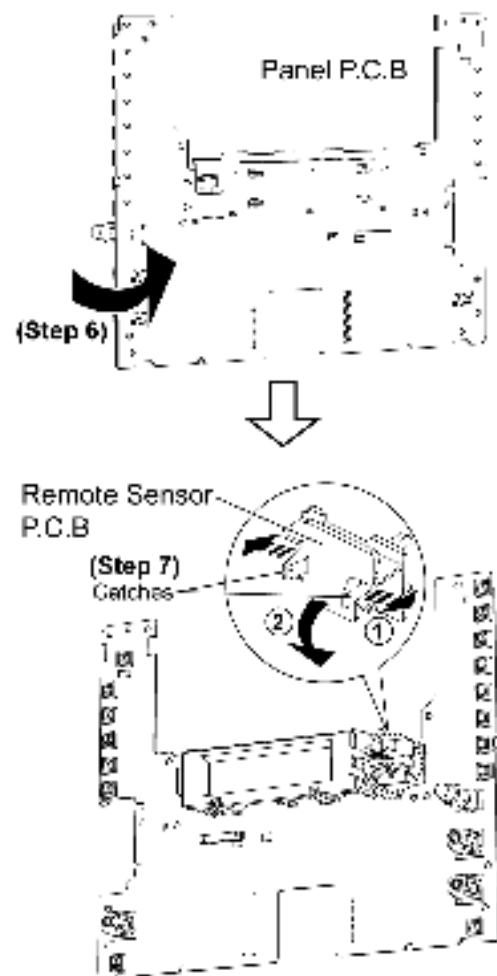
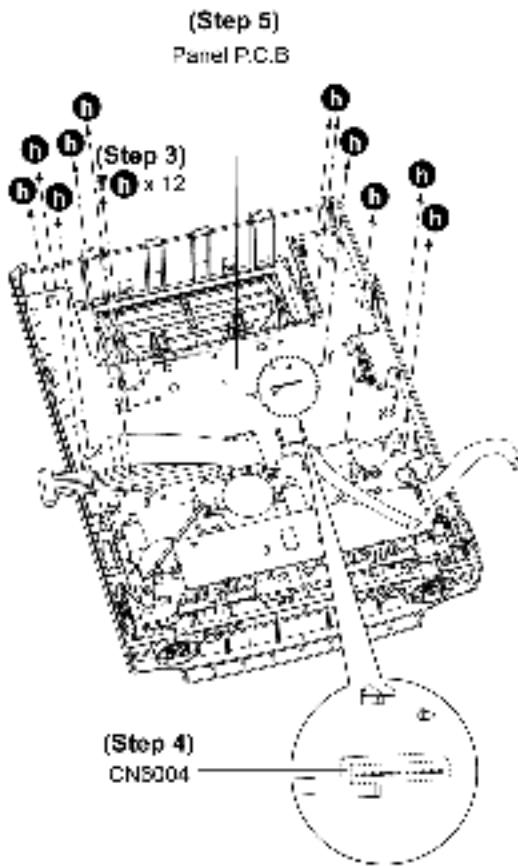


**MIC volume knob
(Step 2)**

Step 2 : Remove the MIC Volume Knob.

10.22. Disassembly for Panel P.C.B, Remote Sensor P.C.B & Sub Panel P.C.B

- Follow the (Step 1) - (Step 6) of Item 10.3
- Follow the (Step 1) - (Step 6) of Item 10.4
- Follow the (Step 1) - (Step 4) of Item 10.20
- Follow the (Step 1) - (Step 2) of Item 10.21



Step 3 : Remove 12 screws.

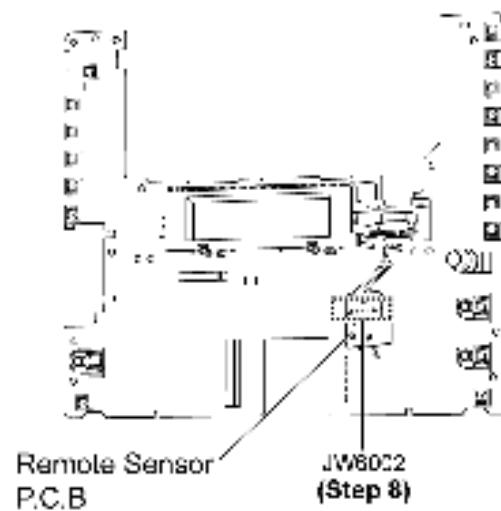
Step 4 : Detach connector (CN6004) on Panel P.C.B.

Step 5 : Remove Panel P.C.B.

- Disassembly of Remote Sensor P.C.B

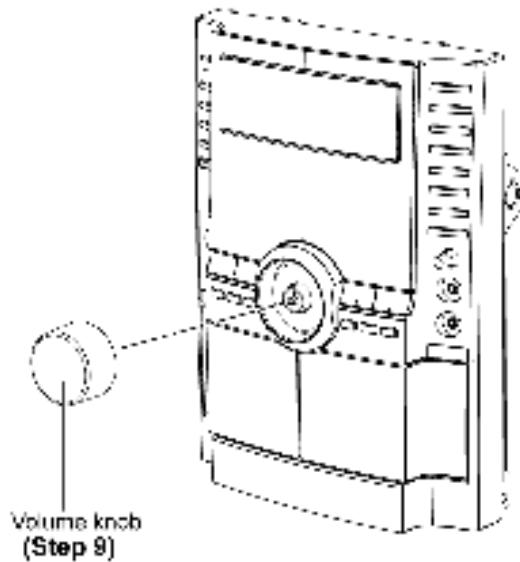
Step 6 : Flip over the Panel P.C.B.

Step 7 : Release 2 catches and remove Remote Sensor P.C.B as arrow shown.

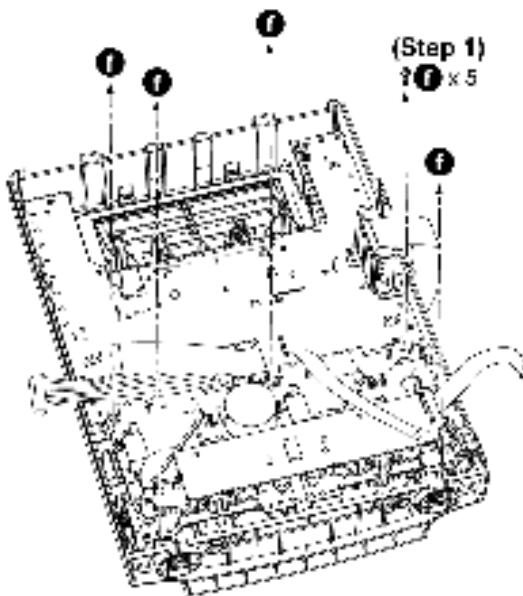


Step 8 : Desolder the pins (JW6002).

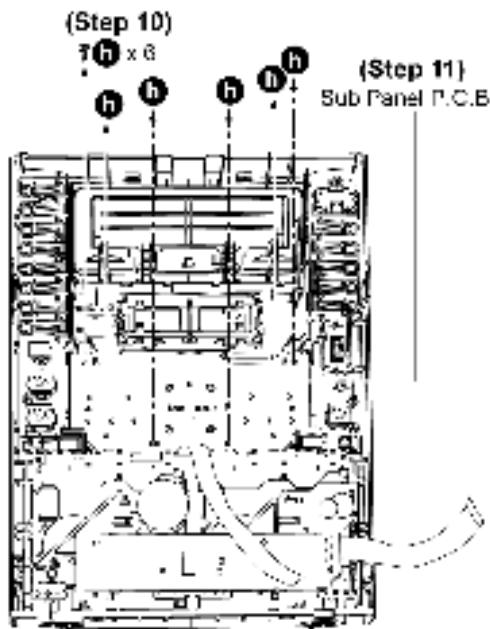
- Disassembly of Sub Panel P.C.B



Step 9 : Remove the Volume Knob.

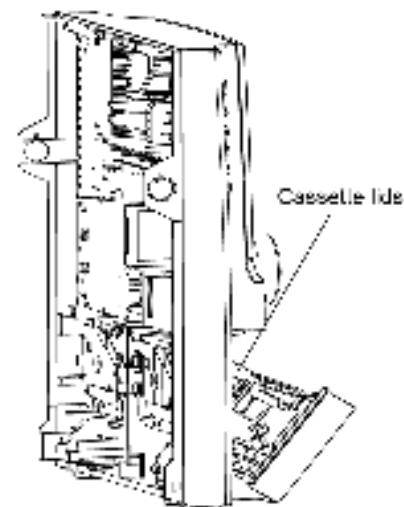
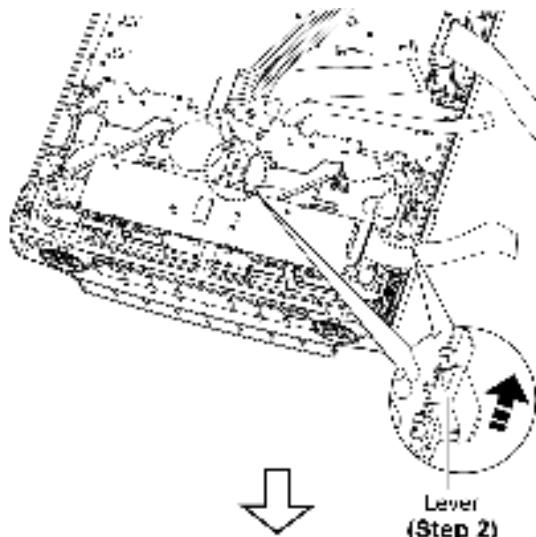


Step 1 : Remove 5 screws.



Step 10 : Remove 6 screws.

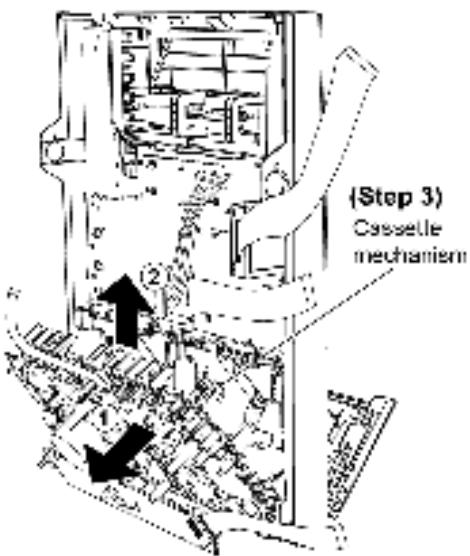
Step 11 : Remove Sub Panel P.C.B.



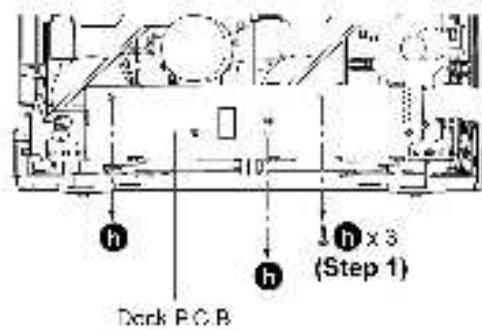
Step 2 : Push the lever upward, and then open the Cassette Lid ass'y (For DECK1 and DECK2).

10.24. Disassembly of Deck P.C.B

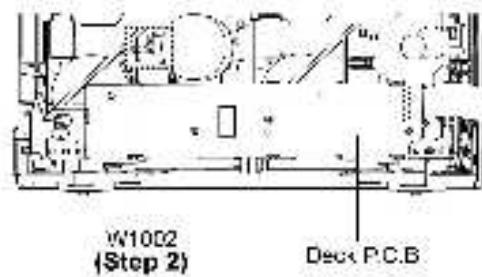
- Follow the (Step 1) - (Step 6) of Item 10.3
- Follow the (Step 1) - (Step 6) of Item 10.4
- Follow the (Step 1) - (Step 4) of Item 10.20
- Follow the (Step 1) - (Step 3) of Item 10.23



Step 3 : Tilt the cassette mechanism unit in the direction of arrow (1), and then remove it in the direction of arrow (2).



Step 1 : Remove 3 screws.



Step 2 : Desolder wire at Deck Motor Terminals (W1002).

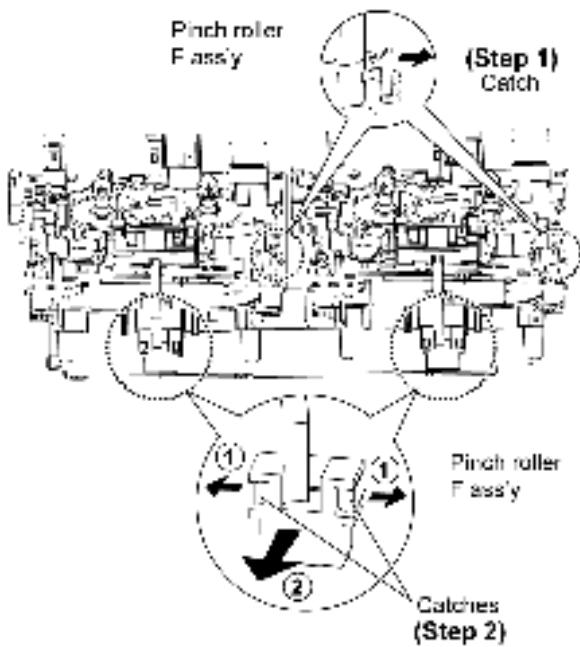
Step 3 : Remove Deck P.C.B.

10.25. Disassembly for Deck Mechanism

- Follow the (Step 1) - (Step 6) of Item 10.3
- Follow the (Step 1) - (Step 6) of Item 10.4
- Follow the (Step 1) - (Step 4) of Item 10.20
- Follow the (Step 1) - (Step 3) of Item 10.23

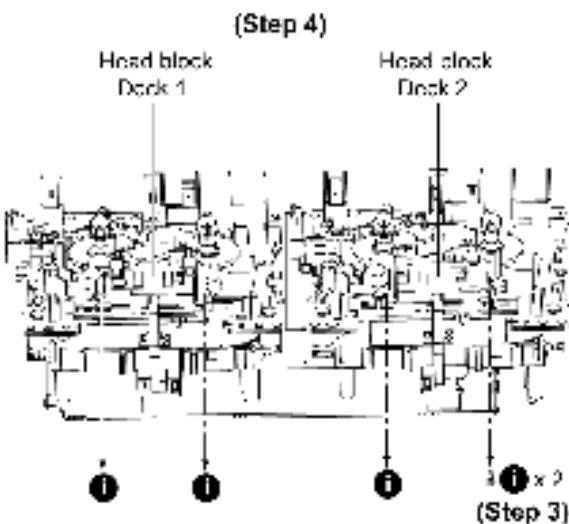
10.25.1. Disassembly of the pinch roller ass'y and head block

* The mechanism as shown below is for DECK1. For DECK2, perform the same procedures.



Step 1 : Release the catch, and then remove the pinch roller (F).

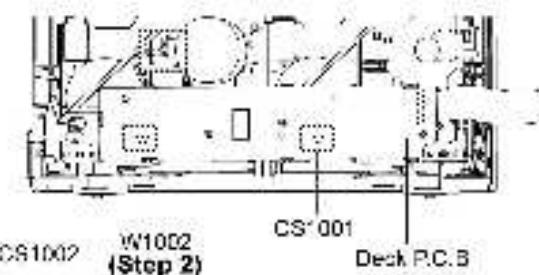
Step 2 : Release 2 claws and detach the head block connector.



Step 3 : Remove 2 screws.

Step 4 : Remove head block.

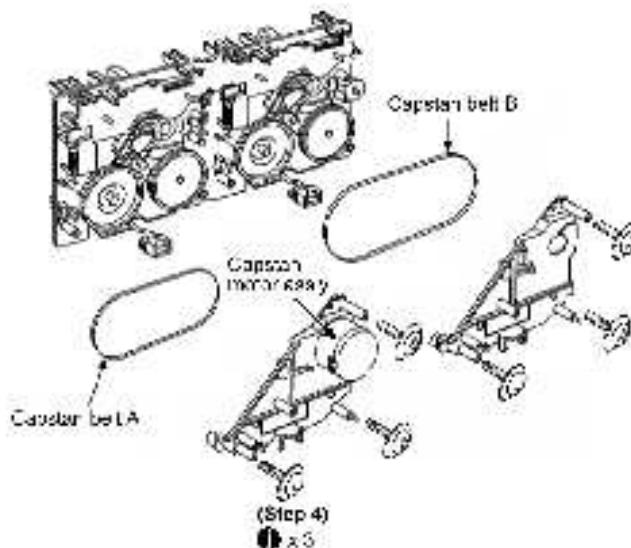
10.25.2. Disassembly of capstan motor ass'y, capstan belt A, capstan belt B and winding belt



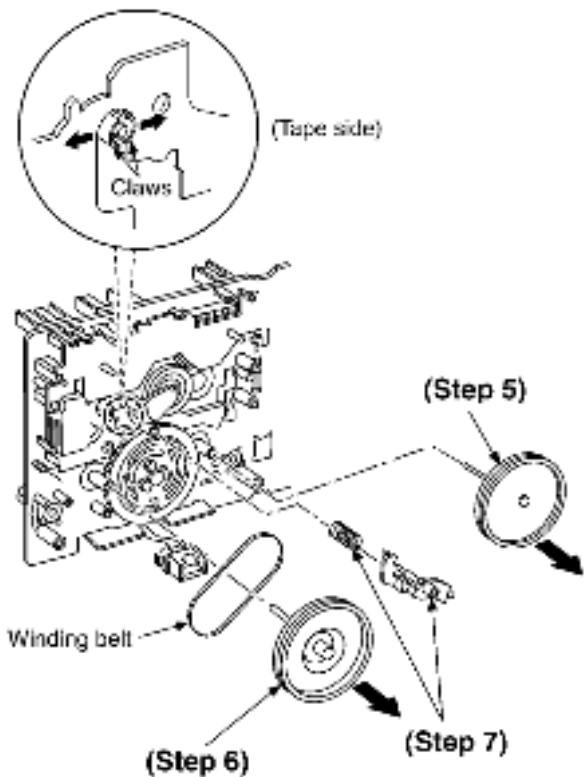
Step 1 : Detach the head block connector (Deck P.C.B.).

Step 2 : Desolder wire (W1002) at motor assembly.

Step 3 : Remove Deck P.C.B.



Step 4 : Remove 3 screws (For deck 1 & 2).

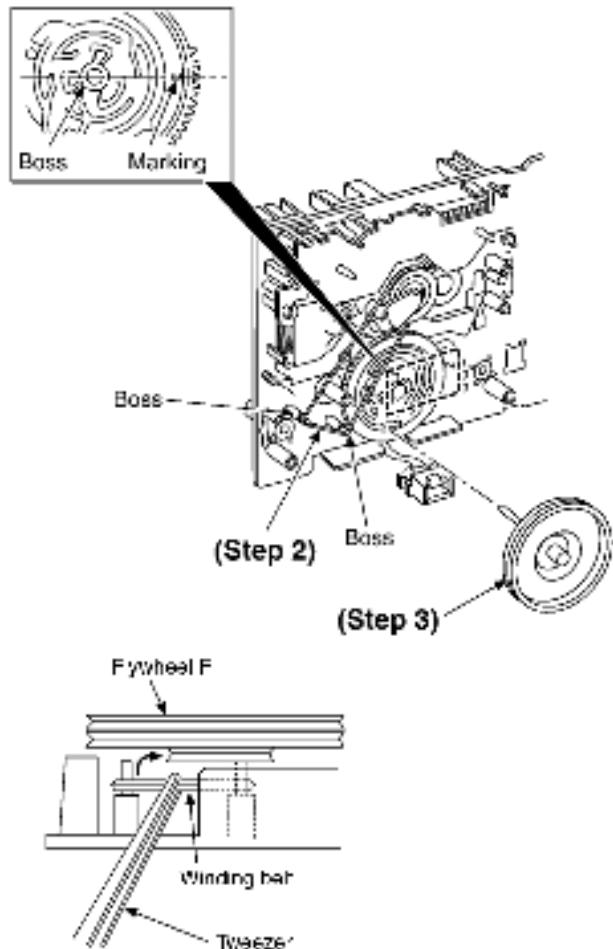


Step 5 : Remove capstan belt A/B.

Step 6 : Remove the flywheel R.

Step 7 : Release the claw and remove the winding lever and spring.

[Installation of the belt]

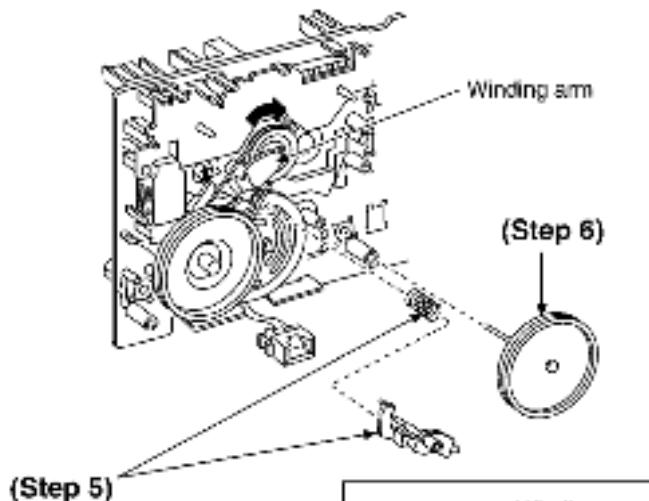


Step 1 : The boss and marking should be positioned horizontally.

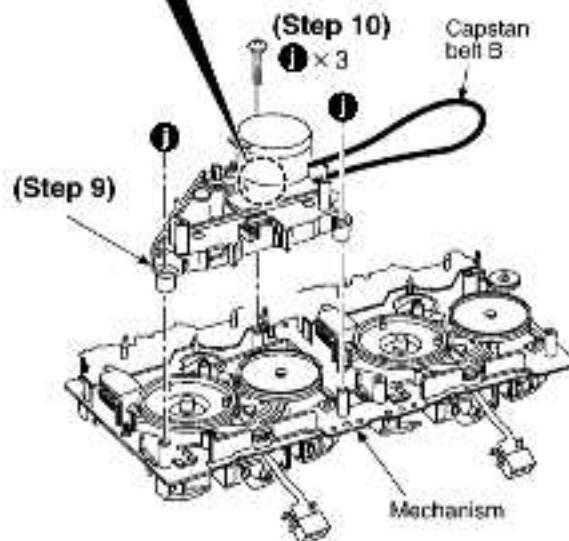
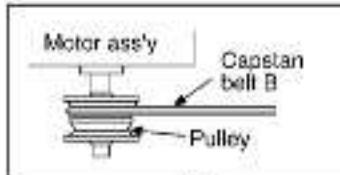
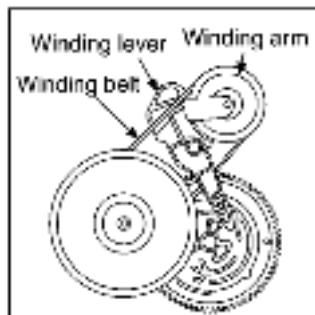
Step 2 : Put the winding belt on the pulley temporarily.

Step 3 : Install the flywheel F.

Step 4 : Put the winding belt on the flywheel F.

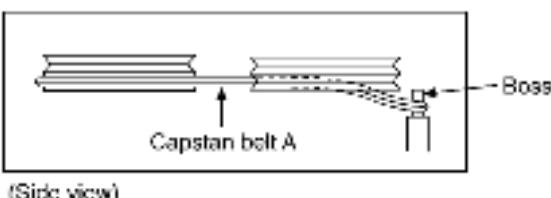
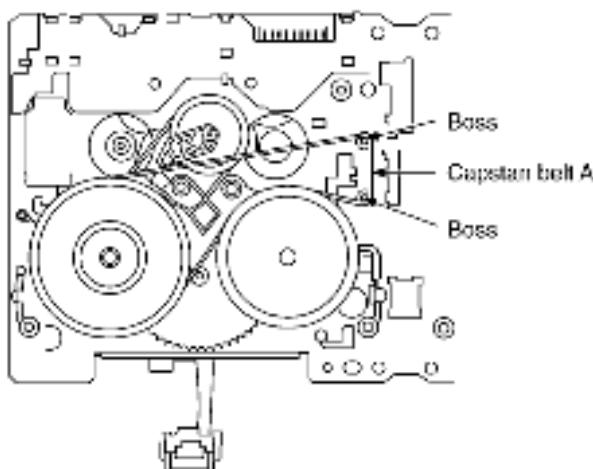


NOTE:
The winding lever should be positioned as shown below.



Step 5 : Install the winding lever and spring while pressing the winding arm in the direction of arrow.

Step 6 : Install the flywheel R.

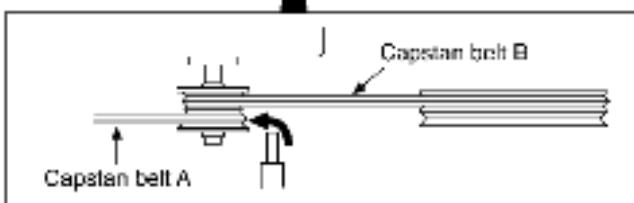
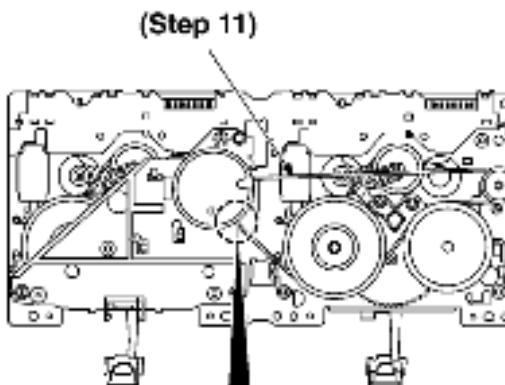


Step 7 : Put the capstan belt A temporarily as shown below.

Step 8 : Put the capstan belt B on the motor ass'y pulley.

Step 9 : Install the sub chassis to the mechanism, and then tighten screws.

Step 10 : Install 3 screws.



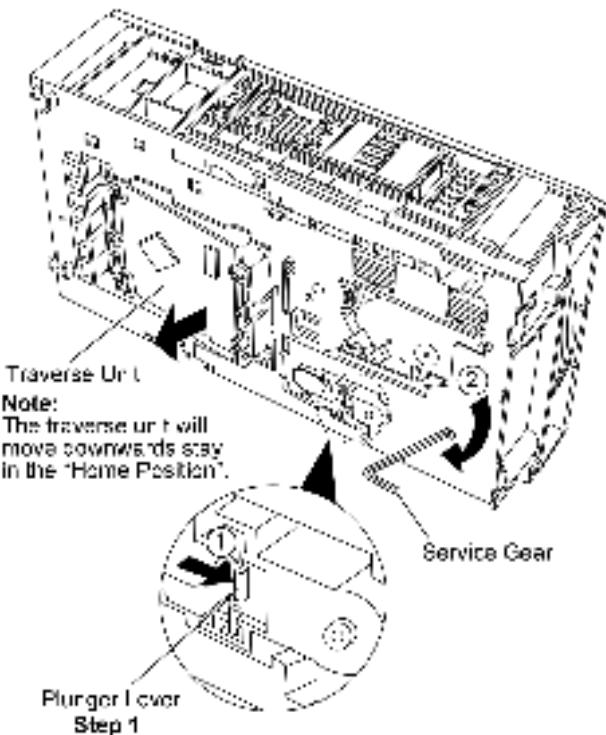
Step 11 : Put the capstan belt B as shown below.

Step 12 : Put the capstan belt A on the motor ass'y pulley.

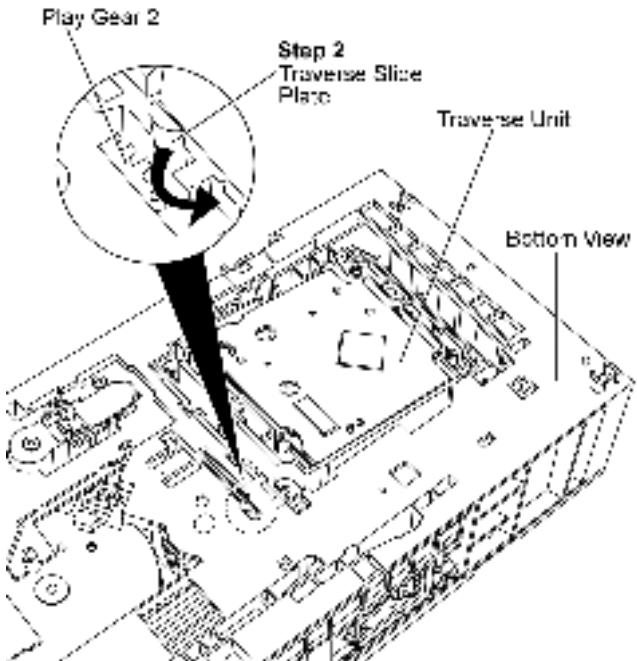
10.26. Disassembly of Traverse Unit

- Follow the (Step 1) - (Step 6) of Item 10.3
- Follow the (Step 1) - (Step 8) of Item 10.4

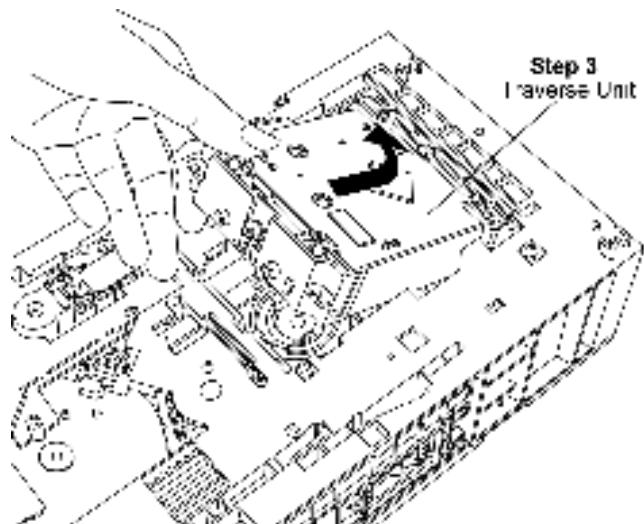
Important notes: Ensure all the trays are in the “STOCK” position before proceeding to the disassemble of traverse unit. For procedures to set the trays in “STOCK” position, please refer to (5.3 Setting the Tray In “STOCK” position for CRS1 Service Manual order no. MD0509368C0)



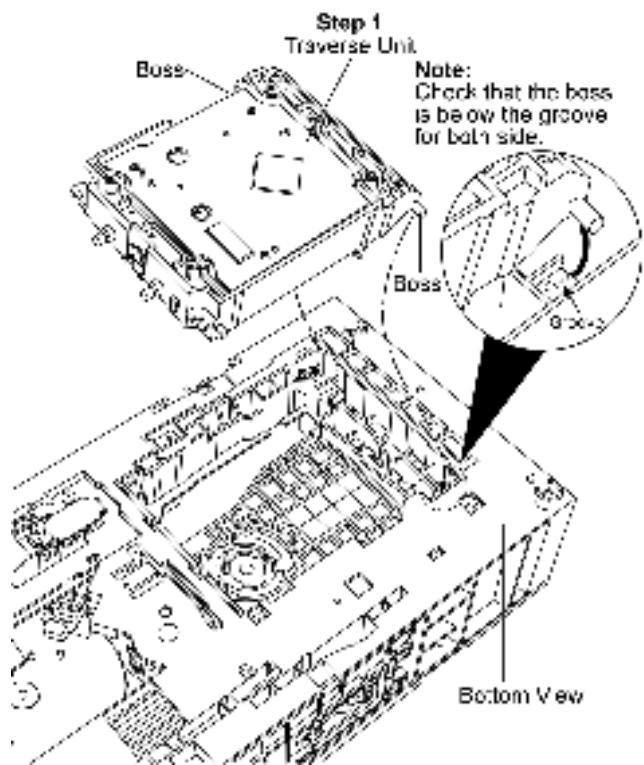
Caution:
Do not damage the Play Gear 2 when pushing the Traverse Slide Plates



Caution: Do not exert strong force on the traverse slide plate.

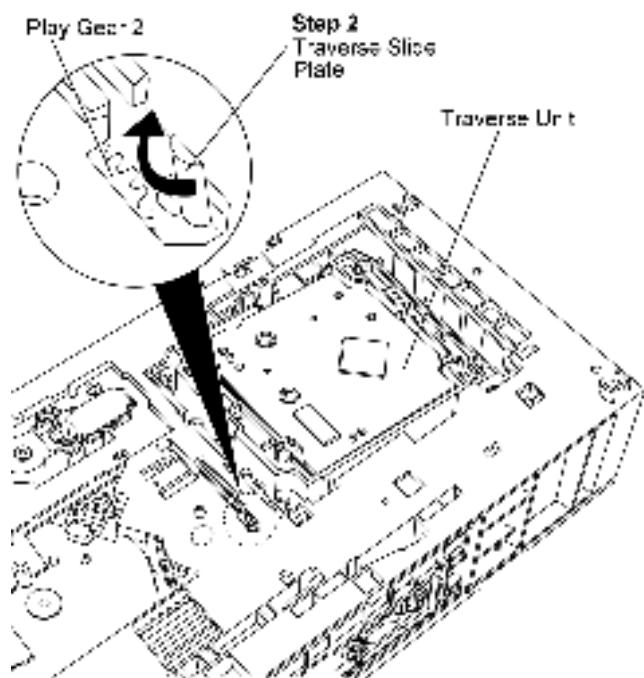


- Assembly of Traverse Unit



Step 1 : Turn over the unit and install the traverse unit.

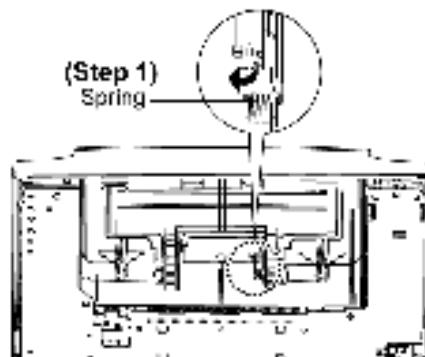
Caution:
Do not damage the Play Gear 2 when pushing the Traverse Slide Plate.



Step 2: Push the traverse slide plate as arrow shown to lock the traverse unit.

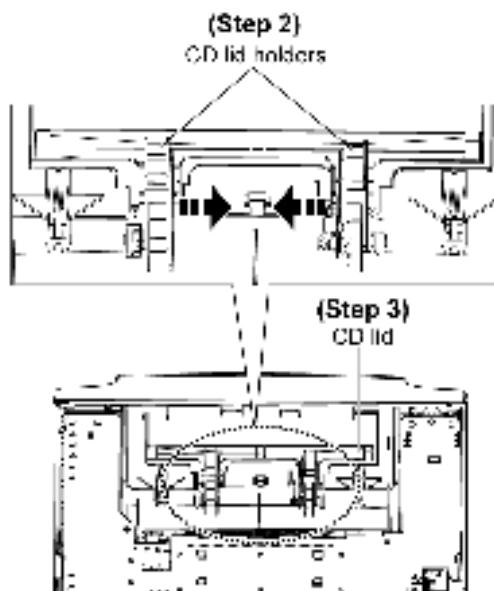
10.27. Disassembly of CD Lid

- Follow the (Step 1) - (Step 6) of Item 10.3
- Follow the (Step 1) - (Step 6) of Item 10.4



Step 1 : Lift the Spring sideward.

Note: Do not misplace the Spring.

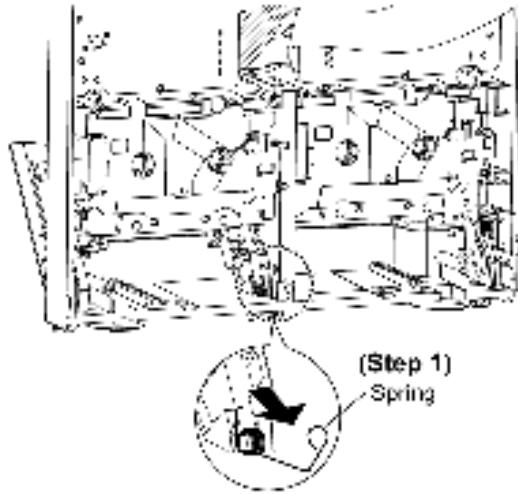


Step 2 : Push the sides of CD Lid Holders in the direction of the arrows shown.

Step 3 : Remove CD Lid.

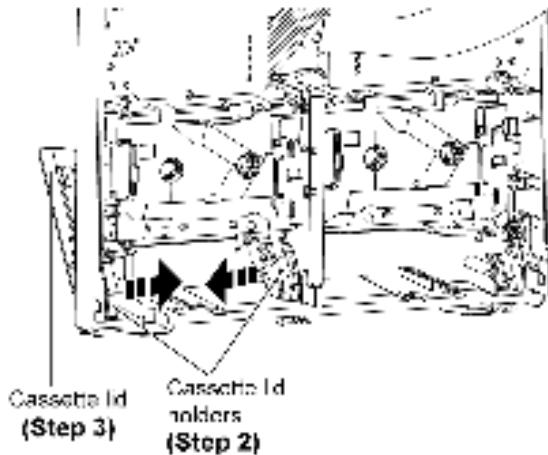
10.28. Disassembly of Cassette Lid

- Follow the (Step 1) - (Step 6) of Item 10.3
- Follow the (Step 1) - (Step 6) of Item 10.4
- Follow the (Step 1) - (Step 4) of Item 10.20
- Follow the (Step 1) - (Step 3) of Item 10.23



Step 1 : Lift the Spring sideward. (For DECK1 and DECK2).

Note: Do not misplace the Spring.

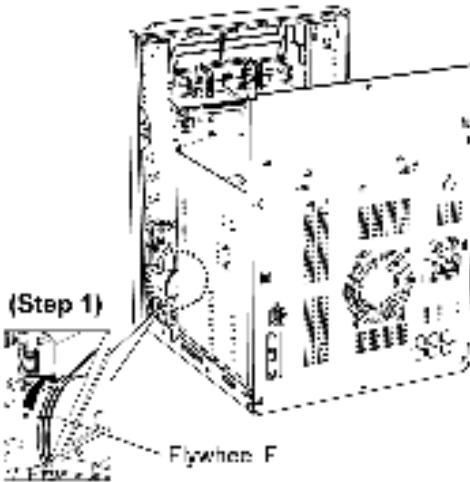


Step 2 : Push the sides of Cassette Lid Holders in the direction of the arrows shown. (For DECK1 and DECK2)

Step 3 : Remove Cassette Lid. (For Left & Right).

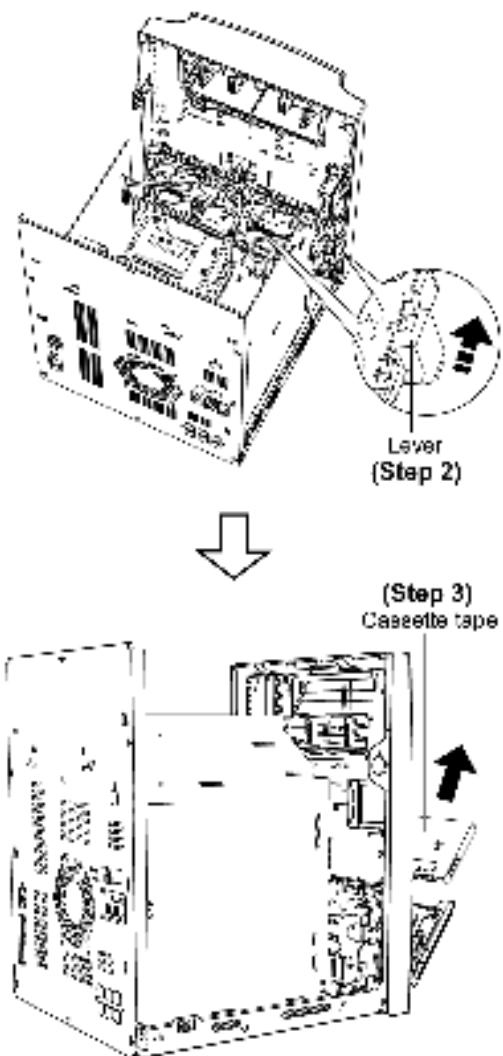
10.29. Rectification for Tape Jam Problem

- Follow the (Step 1) - (Step 6) of Item 10.3



If a cassette tape cannot be removed from the deck (the tape is caught by the capstan or pinch roller during playback or recording).

Step 1 : Rotate the flywheel F in the direction of the arrow to remove it.



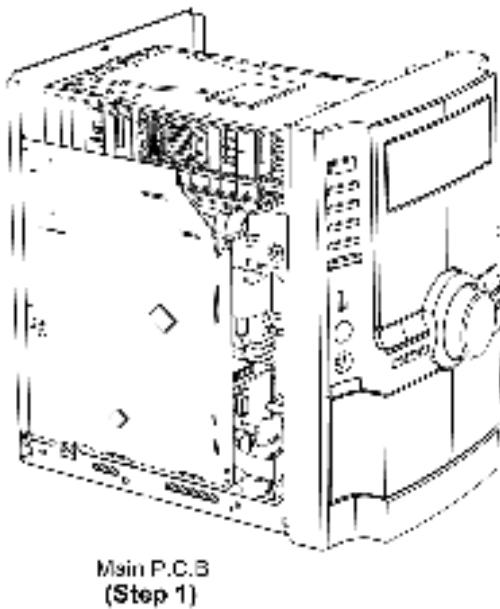
Step 2 : Push the lever upward and open the Cassette Lid.

Step 3 : Remove the Cassette Tape.

11 Service Position

Note: For description of the disassembly procedures, see the Section 10

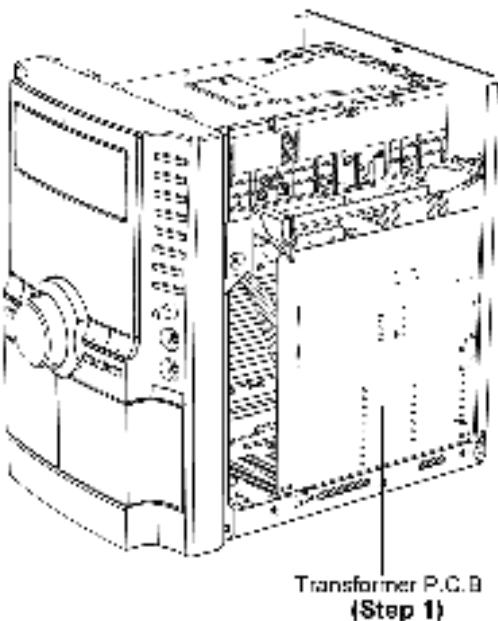
11.1. Checking & Repairing Main P.C.B



Step 1 : Remove the top cabinet to service Main P.C.B.

Note : Main P.C.B can be checked at its original position.

11.2. Checking & Repairing Transformer P.C.B



Step 1 : Remove the top cabinet to service Transformer P.C.B.

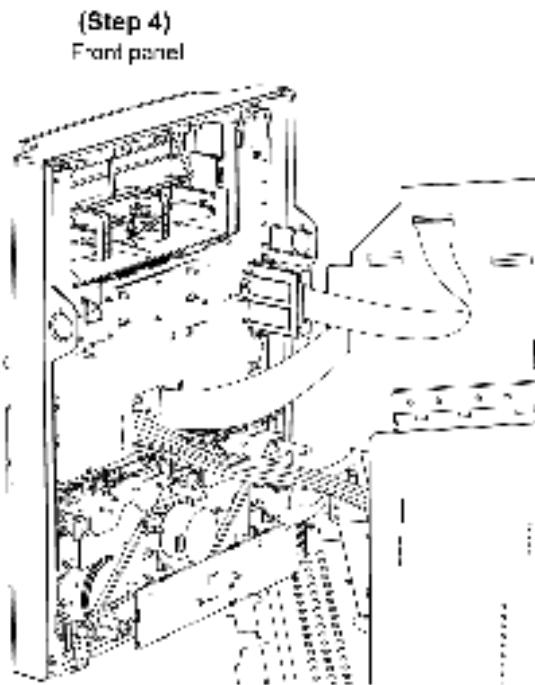
Note : Transformer P.C.B can be checked at its original position.

11.3. Checking & Repairing Deck Mechanism P.C.B

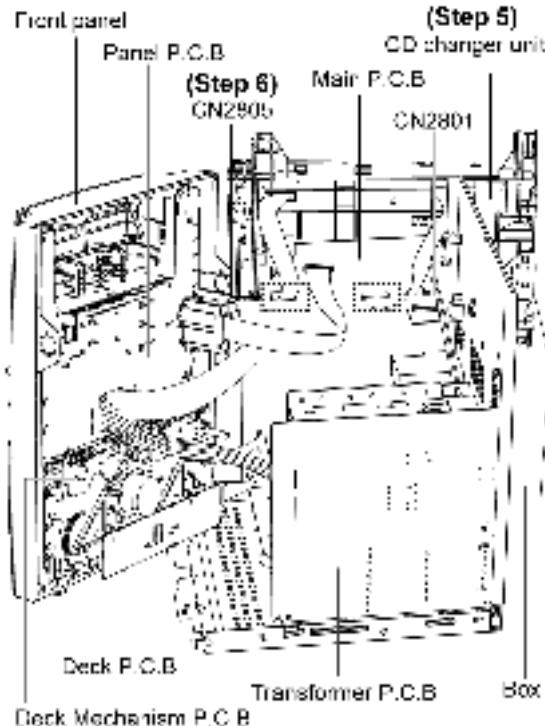
Step 1 : Remove the top cabinet. (Follow the Step 1 - Step 6 of Item 10.3)

Step 2 : Remove the CD Changer Unit (CRS1). (Follow the Step 1 - Step 6 of Item 10.4)

Step 3 : Remove the Front Panel. (Follow the Step 3 - Step 4 of Item 10.20)



Step 4 : Move one side of the front panel slightly forward.



Step 5 : Place a box underneath the CD changer unit to adjust its position higher.

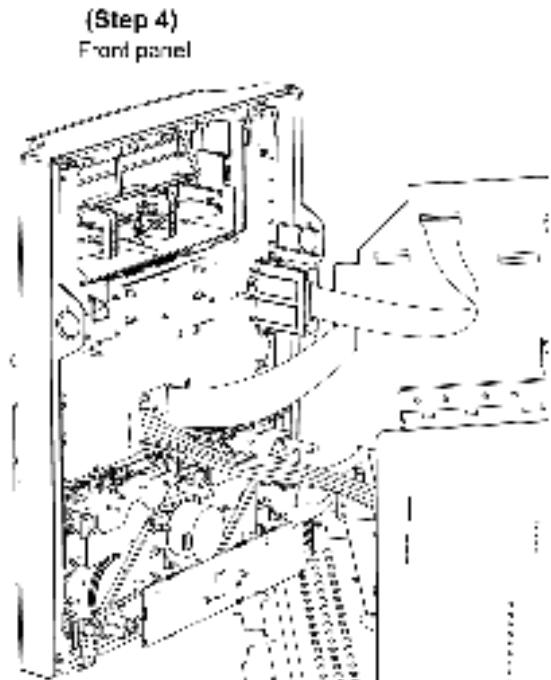
Step 6 : Connect FFC cable from CD changer unit to the Main P.C.B (connectors CN2801 & CN2805).

11.4. Checking & Repairing Panel P.C.B

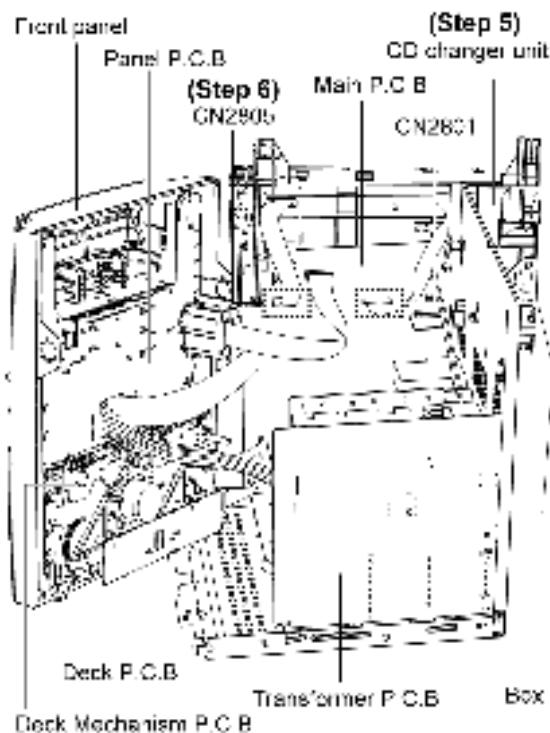
Step 1 : Remove the top cabinet. (Follow the Step 1 - Step 6 of Item 10.3)

Step 2 : Remove the CD Changer Unit (CRS1). (Follow the Step 1 - Step 6 of Item 10.4)

Step 3 : Remove the Front Panel. (Follow the Step 3 - Step 4 of Item 10.20)



Step 4 : Move one side of the front panel slightly forward.



Step 5 : Place a box underneath the CD changer unit to adjust its position higher.

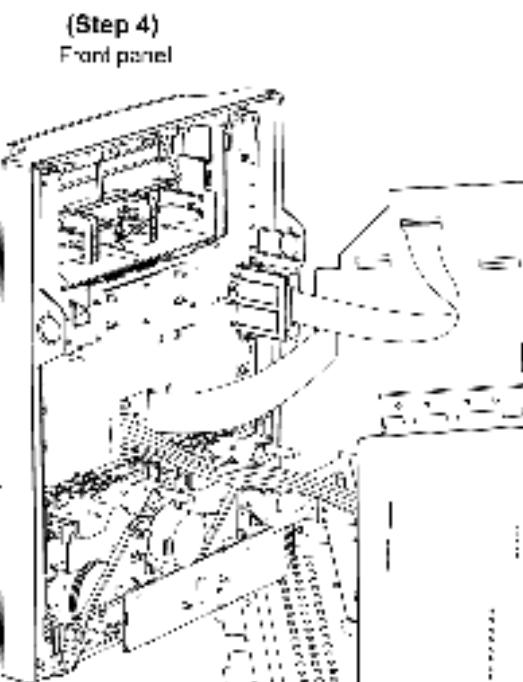
Step 6 : Connect FFC cable from CD changer unit to the Main P.C.B (connectors CN2801 & CN2805).

11.5. Checking & Repairing Deck P.C.B

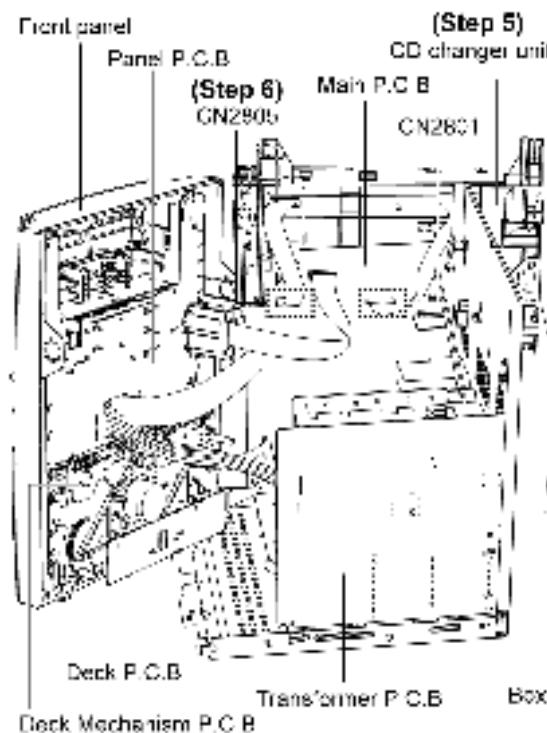
Step 1 : Remove the top cabinet. (Follow the Step 1 - Step 6 of Item 10.3)

Step 2 : Remove the CD Changer Unit (CRS1). (Follow the Step 1 - Step 6 of Item 10.4)

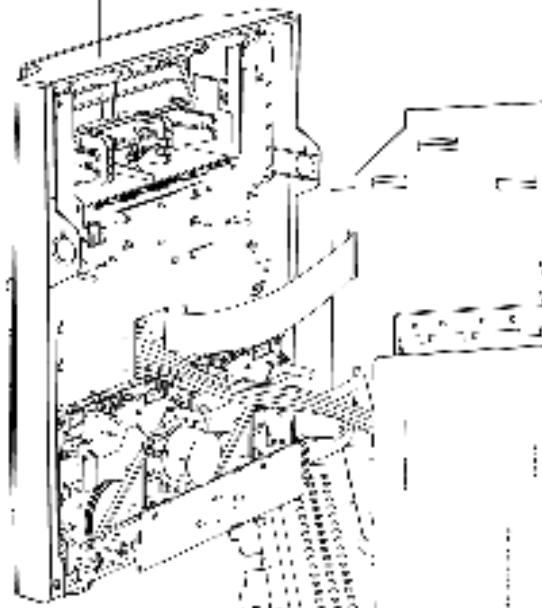
Step 3 : Remove the Front Panel. (Follow the Step 3 - Step 4 of Item 10.20)



Step 4 : Move one side of the front panel slightly forward.



(Step 6)
Front panel



Step 6 : Move one side of the front panel slightly forward.

Step 5 : Place a box underneath the CD changer unit to adjust its position higher.

Step 6 : Connect FFC cable from CD changer unit to the Main P.C.B. (connectors CN2801 & CN2805).

11.6. Checking & Repairing USB P.C.B (Side B)

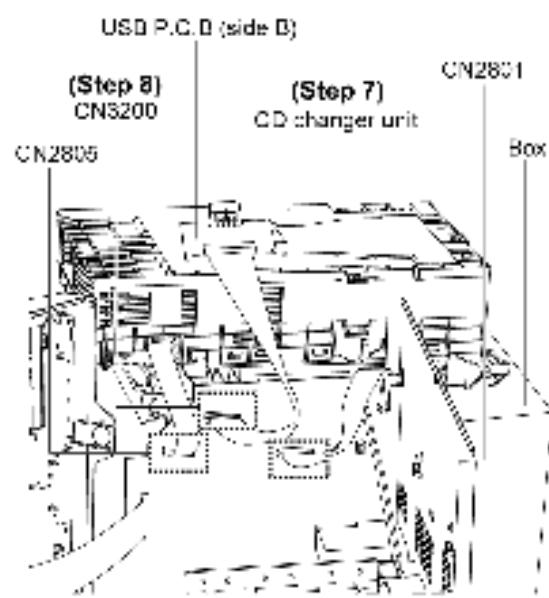
Step 1 : Remove the top cabinet. (Follow the Step 1 - Step 6 of Item 10.3)

Step 2 : Remove the CD Changer Unit (CRS1). (Follow the Step 1 - Step 6 of Item 10.4)

Step 3 : Detach FFC cable at the connector (CN3200).

Step 4 : Remove the Front Panel. (Follow the Step 3 - Step 4 of Item 10.20)

Step 5 : Remove the USB P.C.B. (Follow the Step 1 - Step 5 of Item 10.21)



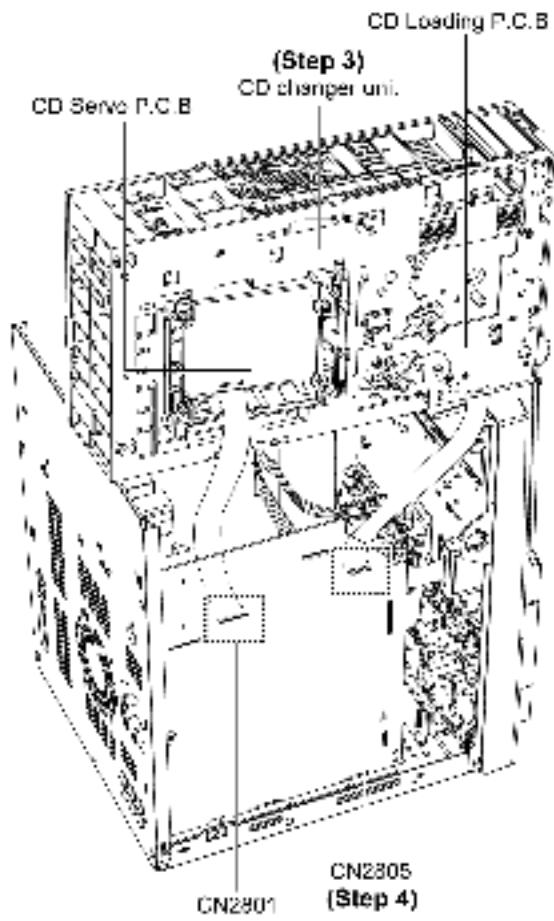
Step 7 : Place a box underneath the CD changer unit to adjust its position higher.

Step 8 : Connect FFC cable from CD changer unit to the Main P.C.B (Connectors CN2801 & CN2805) and connect FFC cable from USB P.C.B to Main P.C.B (Connector CN3200).

11.7. Checking & Repairing CD Servo P.C.B

Step 1 : Remove the top cabinet. (Follow the Step 1 - Step 6 of Item 10.3)

Step 2 : Remove the CD Changer Unit (CRS1). (Follow the Step 1 - Step 8 of Item 10.4)



Step 3 : Place the CD changer unit as shown.

Step 4 : Connect FFC cable from CD changer unit to the Main P.C.B (Connectors CN2801 & CN2805).

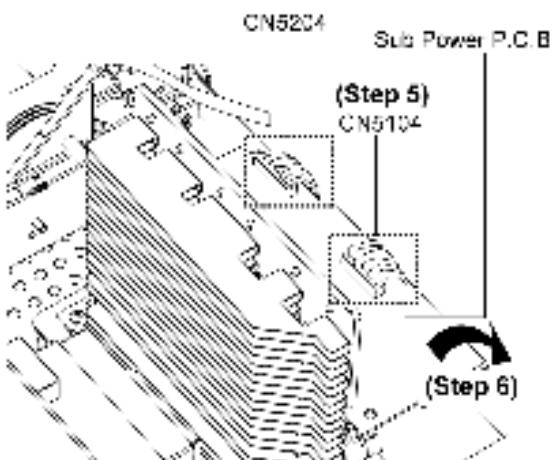
11.8. Checking & Repairing Sub Power P.C.B

Step 1 : Remove the top cabinet. (Follow the Step 1 - Step 6 of Item 10.3)

Step 2 : Remove the CD Changer Unit (CRS1). (Follow the Step 1 - Step 6 of Item 10.4)

Step 3 : Remove the Main P.C.B. (Follow the Step 1 - Step 4 of Item 10.8)

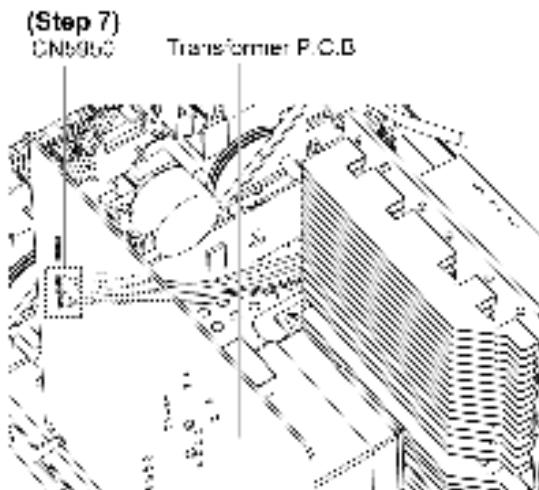
Step 4 : Remove the Sub Power P.C.B. (Follow the Step 1 - Step 5 of Item 10.9)



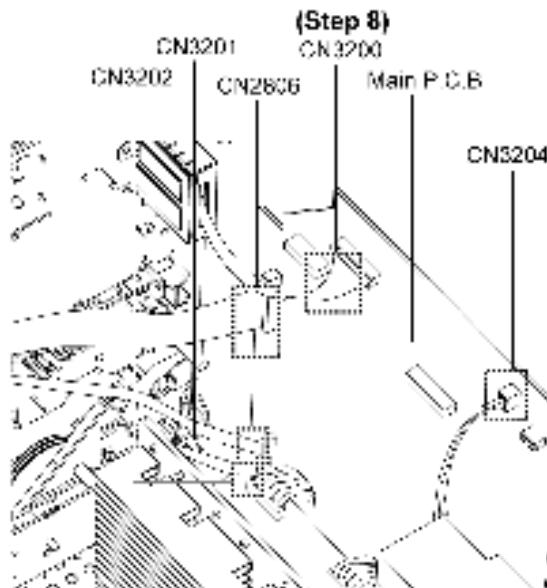
Step 5 : Connect cable from Power P.C.B to the Sub Power

P.C.B (Connectors CN5104 & CN5204).

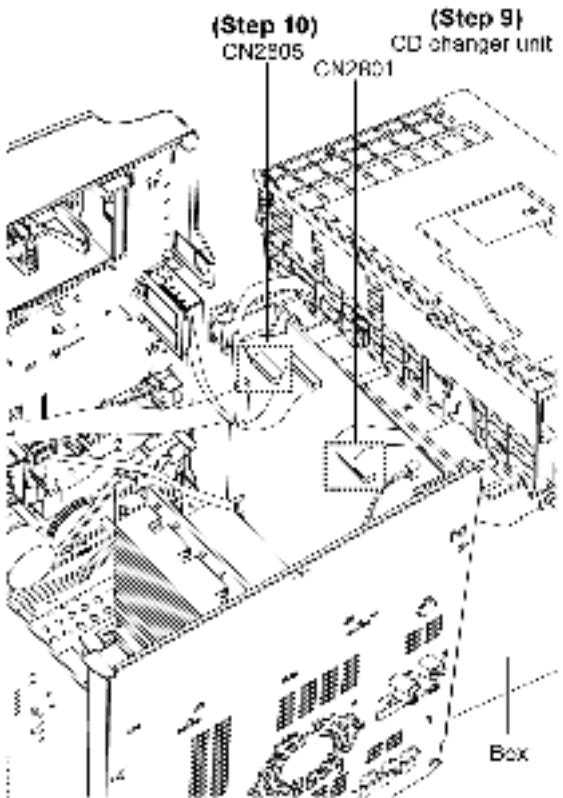
Step 6 : Flip over Sub Power P.C.B.



Step 7 : Connect cable from Sub Power P.C.B to the Transformer P.C.B (Connector CN5950).



Step 8 : Connect FFC cable from Front Panel to the Main P.C.B (Connectors CN3200, CN3201, CN3202 & CN2806) and connect cable from Fan to the Main P.C.B (Connector CN3204).



Step 9 : Place a box underneath the CD changer unit to adjust its position higher.

Step 10 : Connect FFC cable from CD changer unit to the Main P.C.B (Connectors CN2801 & CN2805).

11.9. Checking & Repairing Power P.C.B

Step 1 : Remove the top cabinet. (Follow the Step 1 - Step 6 of Item 10.3)

Step 2 : Remove the CD Changer Unit (CRS1). (Follow the Step 1 - Step 6 of Item 10.4)

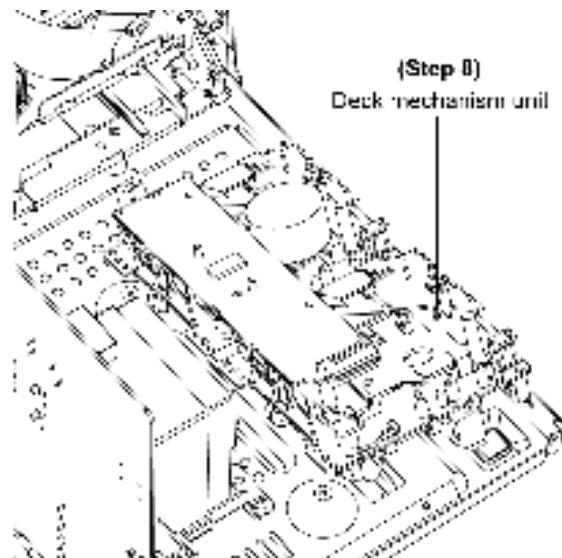
Step 3 : Remove the Rear Panel. (Follow the Step 1 - Step 4 of Item 10.6)

Step 4 : Remove the Main P.C.B. (Follow the Step 1 - Step 4 of Item 10.8)

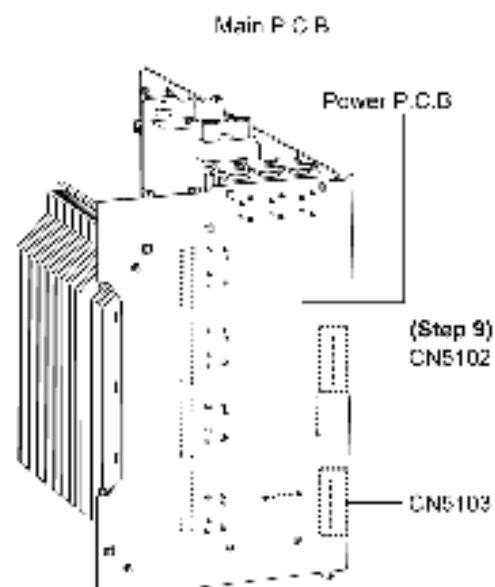
Step 5 : Remove the Power P.C.B. (Follow the Step 1 - Step 3 of Item 10.15)

Step 6 : Remove the Front Panel. (Follow the Step 1 - Step 4 of Item 10.20)

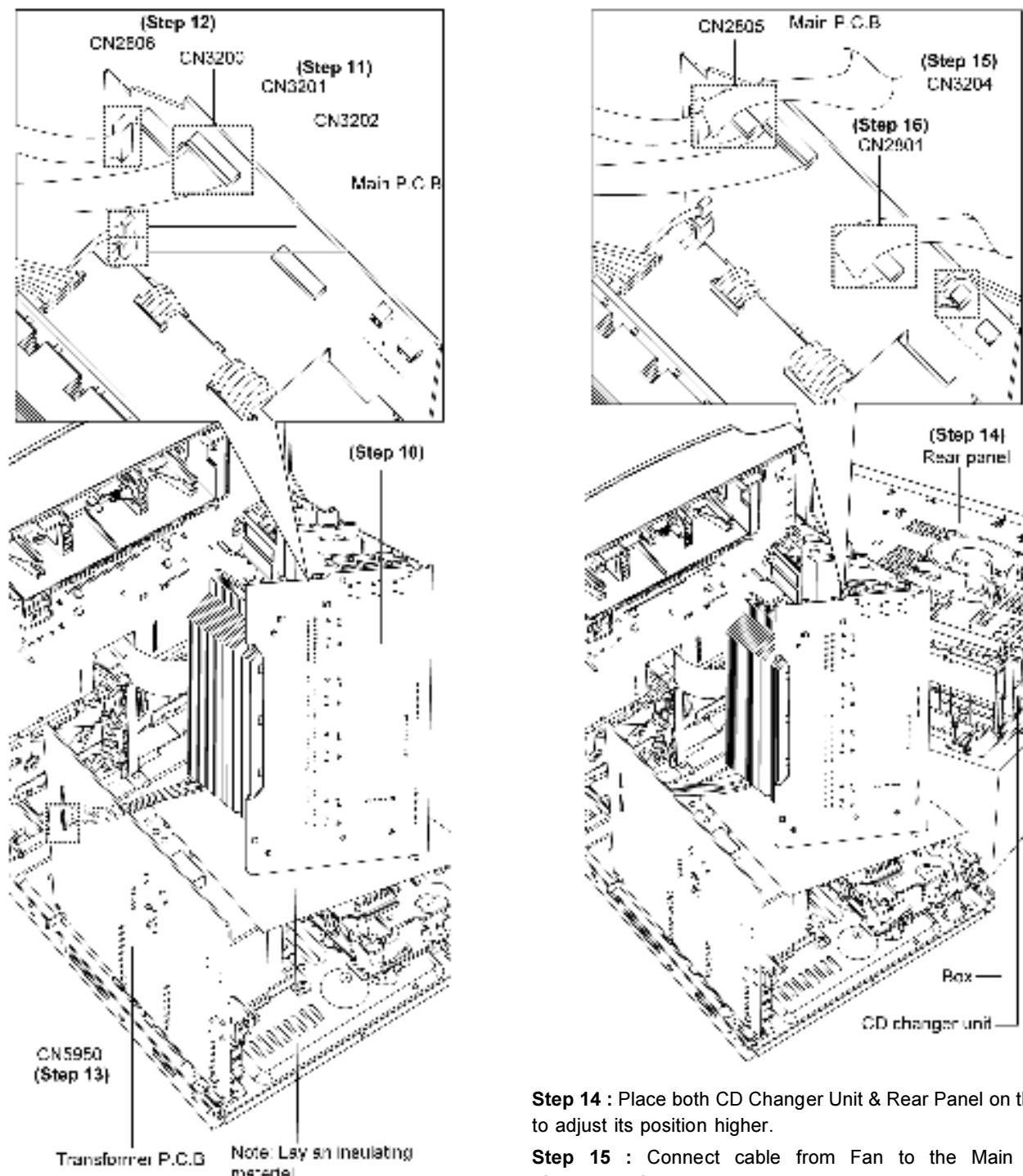
Step 7 : Remove the Deck Mechanism Unit. (Follow the Step 1 - Step 3 of Item 10.23)



Step 8 : Place the Deck Mechanism Unit on the bottom chassis.



Step 9 : Connect Main P.C.B to the Power P.C.B (Connector CN5102 & CN5103).



Step 10 : Place Power P.C.B on top of the Deck Mechanism Unit.

Step 11 : Connect FFC cable from Deck Mechanism Unit to the Main P.C.B (Connectors CN3201 & CN3202).

Step 12 : Connect FFC cable from Front Panel to the Main P.C.B (Connectors CN2800 & CN2806).

Step 13 : Connect cable from Sub Power P.C.B to the Transformer P.C.B (Connectors CN5950).

Step 14 : Place both CD Changer Unit & Rear Panel on the box to adjust its position higher.

Step 15 : Connect cable from Fan to the Main P.C.B (Connector CN3204).

Step 16 : Connect FFC cable from CD changer unit to the Main P.C.B (Connectors CN2801 & CN2805).

12 Adjustment Procedures

12.1. Cassette Deck Section

- Measurement Condition
 - Deck Tape Select: NORMAL
 - Make sure head, capstan and press roller are clean.
 - Judgeable room temperature $20 \pm 5^\circ\text{C}$ ($68 \pm 9^\circ\text{F}$)
- Measuring instrument
 - EVM (DC Electronic voltmeter)
 - Digital frequency counter
- Test Tape
 - Tape speed gain adjustment (3 kHz, -10 dB); QZZCWAT

12.1.1. Tape Speed Adjustment (Deck 1/2)

1. Set the tape edit button to “NORMAL” position.
2. Insert the test tape (QZZCWAT) to DECK 2 and playback (FWD side) the middle portion of it.
3. Adjust Motor VR (DECK 2) for the output value shown below.

Adjustment target: $3000 \pm 90\text{Hz}$ (NORMAL speed)

4. After alignment, assure that the output frequency of the DECK 1 FWD are within 90 Hz of the value of the output frequency of DECK 2 FWD.

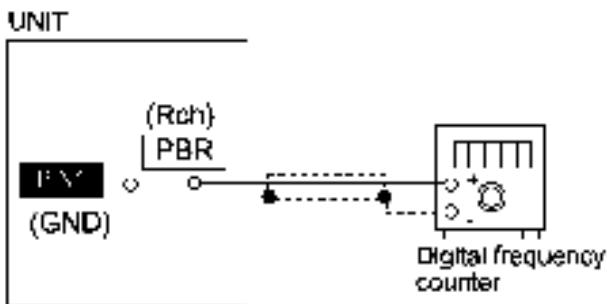


Fig. 1

12.1.2. Bias Voltage Check

1. Set the unit “AUX” position.
2. Insert the Normal blank tape (QZZCRA) into DECK 2 and the unit to “REC” mode (use “I REC” key).
3. Measure and make sure that the output is within the standard value.

Bias voltage for Deck 2 $14 \pm 4\text{mV}$ (Normal)

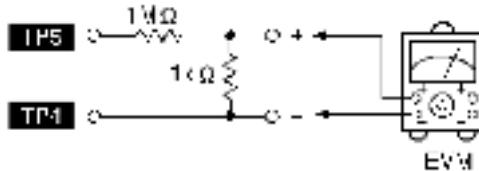


Fig. 2

Erase voltage for Deck 2 80mV (Normal)

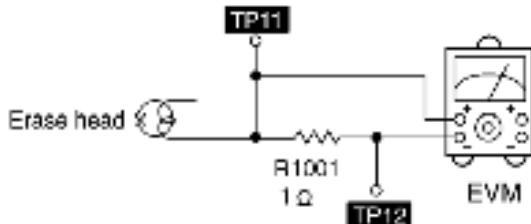


Fig. 3

12.1.3. Bias Frequency Adjustment (Deck 1/2)

1. Set the unit to "AUX" position.
2. Insert the Normal blank tape (QZZCRA) into DECK 2 and set the unit to "REC" mode (use "I REC" key).
3. Adjust L1002 so that the output frequency is within the standard value as below.

| | |
|-----------------|----------|
| Standard Value: | 89 ~ 110 |
| kHz | |

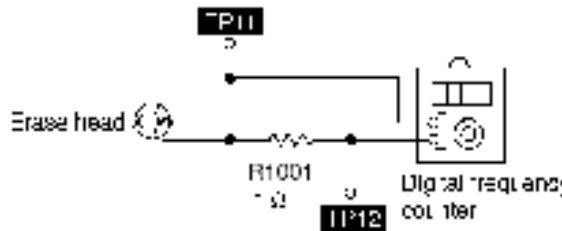


Fig. 4

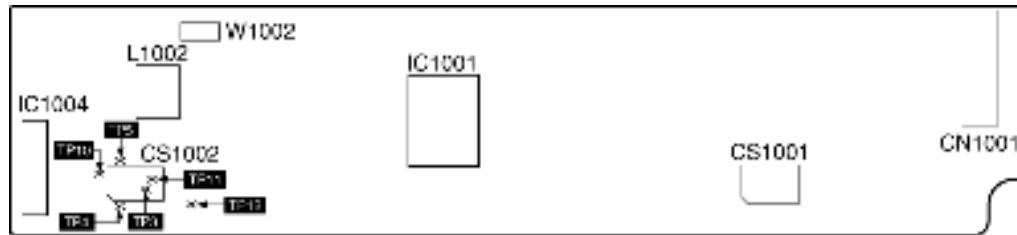
12.2. Tuner section

No adjustment is required.

12.3. Alignment Points

12.3.1. Cassette Deck Section

Below is the locations of test points for Deck P.C.B.:-



13 Voltage Measurement & Waveform Chart

Note:

- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard.

Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.

- Circuit voltage and waveform described herein shall be regarded as reference information when probing defect point because it may differ from actual measuring value due to difference of Measuring instrument and its measuring condition and product itself.

13.1. Voltage Measurement

13.1.1. CD SERVO P.C.B

| Pin No. | | IC70C1 | | | | | | | | | | | | | | | | | | | |
|---------|--|--------|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| WCODE | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| D1:PLAY | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 32 |
| STANDBY | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pin No. | | IC70C1 | | | | | | | | | | | | | | | | | | | |
| WCODE | | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| D1:PLAY | | 1.8 | 0 | 1.8 | 1.8 | 1.8 | 0 | 3.2 | 1.5 | 3.2 | 3.2 | 0 | 1.8 | 0 | 0 | 1.8 | 1.8 | 0 | 1.8 | 1.8 | 1.8 |
| STANDBY | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pin No. | | IC70C1 | | | | | | | | | | | | | | | | | | | |
| WCODE | | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| D1:PLAY | | 0.2 | 2.4 | 1.8 | 1.8 | 1 | 0 | 3.2 | 1.2 | 0 | 1.2 | 1.8 | 1.8 | 0.8 | 1.8 | 1.8 | 1.8 | 0 | 3.2 | 0 | 0 |
| STANDBY | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pin No. | | IC70C1 | | | | | | | | | | | | | | | | | | | |
| WCODE | | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
| D1:PLAY | | 3.2 | | | | | | 3 | 3 | 3 | 2.8 | 0 | 3.2 | 0 | 1.8 | 0 | 1.8 | 3.2 | 0 | 3.2 | 1.8 |
| STANDBY | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pin No. | | IC70C1 | | | | | | | | | | | | | | | | | | | |
| WCODE | | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| D1:PLAY | | 1.8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| STANDBY | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pin No. | | IC70C2 | | | | | | | | | | | | | | | | | | | |
| WCODE | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| D1:PLAY | | 1.8 | 0 | 1.5 | 0 | 0 | 0 | 0 | 0 | 0 | 1.8 | 3.2 | 3.2 | 3.2 | 2.8 | 3.2 | 3.2 | 3.2 | 3.2 | 0 | 1.8 |
| STANDBY | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pin No. | | IC70C2 | | | | | | | | | | | | | | | | | | | |
| WCODE | | E | C | B | | | | | | | | | | | | | | | | | |
| D1:PLAY | | 3.1 | 2 | 2.4 | | | | | | | | | | | | | | | | | |
| STANDBY | | 0 | 0.1 | C | | | | | | | | | | | | | | | | | |

SA-AK960GCP CD SERVO P.C.B.

13.1.2. MAIN P.C.B

| Ref No. | IC2801 | | | | | | | | | | | | | | | | | | | |
|---------|--------|------|---------|-----|-----|-----|------|------|-----|------|------|------|-----|-----|------|------|------|------|------|------|
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| CD PLAY | 3.7 | 0 | 3.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0.8 | 0.7 | 3.3 | 1.6 | 0 | 1.6 | 3.3 | 3.3 | 3.3 | 0 | 1.8 |
| STANDBY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.7 | 0.7 | 3.3 | 1.6 | 0 | 1.6 | 3.3 | 3.3 | 3.3 | 0 | 1.8 | |
| Ref No. | IC2801 | | | | | | | | | | | | | | | | | | | |
| MODE | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| CD PLAY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.3 | 0 | 0 | 3.2 | 3.2 | 0 | 0 | 0 | 0 | 0 | 0 | 3.2 | 0 |
| STANDBY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.3 | 0 | 0 | 3.3 | 3.3 | 0 | 0 | 0 | 3.3 | 0 | 0 | 3.1 | 3.2 |
| Ref No. | IC2801 | | | | | | | | | | | | | | | | | | | |
| MODE | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| CD PLAY | 0 | 0 | 0 | 0 | 0 | 3.2 | 3.2 | 0 | 0 | 0 | 0 | 0 | 3.2 | 0 | 0.1 | 0 | 0 | 3.3 | 3.3 | 0 |
| STANDBY | 0 | 0 | 1.3 | 0 | 0 | 3.2 | 3.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.1 | 0 | 0 | 3.3 | 3.3 | 0 |
| Ref No. | IC2801 | | | | | | | | | | | | | | | | | | | |
| MODE | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
| CD PLAY | 3.2 | 3.3 | 0 | 0 | 1.4 | 3.2 | 0 | 0 | 0 | 1.9 | 1.9 | 2.8 | 0 | 0 | 2.4 | 3.3 | 3.1 | 3.1 | 3.3 | 0 |
| STANDBY | 3.2 | 3.3 | 0 | 0 | 1.4 | 3.2 | 0 | 0 | 0 | 2.4 | 2.5 | 2.9 | 0 | 0 | 0 | 3.3 | 3.3 | 3.3 | 3.3 | 0 |
| Ref No. | IC2801 | | | | | | | | | | | | | | | | | | | |
| MODE | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| CD PLAY | 3.3 | 0.1 | 3.2 | 0 | 0 | 3.2 | 0 | 0 | 0.2 | 1.4 | 3.3 | 2.9 | 2.8 | 2.9 | 2.6 | 0 | 3 | 3.3 | 3.3 | 1.6 |
| STANDBY | 3.3 | 0.1 | 3.3 | 0 | 0 | 3.2 | 0 | 0 | 2.6 | 1.8 | 3.3 | 2.9 | 2.8 | 2.9 | 2.7 | 0 | 3 | 3.3 | 3.3 | 1.6 |
| Ref No. | IC2803 | | | | | | | | | | | | | | | | | | | |
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| CD PLAY | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 0 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 |
| STANDBY | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 0 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 |
| Ref No. | IC2803 | | | | | | | | | | | | | | | | | | | |
| MODE | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | | | | |
| CD PLAY | - | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | | | | |
| STANDBY | - | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | | | | |
| Ref No. | IC2804 | | | | | | | | | | | | | | | | | | | |
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | 1 | 2 | 3 | 4 | 5 | | | | | | |
| CD PLAY | 7.5 | 7.5 | 7.5 | 0 | 7.5 | 7.5 | 7.5 | 15 | | 3.4 | 0 | 1.3 | 3.3 | 3.4 | | | | | | |
| STANDBY | 7.5 | 7.5 | 7.5 | 0 | 7.5 | 7.5 | 7.5 | 15.1 | | 3.4 | 0 | 1.3 | 3.3 | 3.4 | | | | | | |
| Ref No. | IC2810 | | | | | | | | | | | | | | | | | | | |
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | |
| CD PLAY | 7.6 | 7.6 | 7.3 | 0 | 7.4 | 7.5 | 7.6 | 15 | | - | 3.3 | 0 | 0 | 0 | 0 | 0 | 0 | - | | |
| STANDBY | 7.8 | 7.8 | 7.4 | 0 | 7.6 | 7.7 | 7.7 | 15.4 | | - | 3.3 | 0 | 0 | 0 | 0 | 0 | 0 | - | | |
| Ref No. | IC2872 | | | | | | | | | | | | | | | | | | | |
| MODE | 1 | 2 | 3 | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | | |
| CD PLAY | 11.4 | 0 | 9 | | 5.1 | 5.2 | 5.2 | 0 | - | - | - | - | - | 0 | - | 5.1 | 5.1 | - | | |
| STANDBY | 11.6 | 0 | 9 | | 5.1 | 4.7 | 4.7 | 0 | - | - | - | - | - | 0 | - | 5.1 | 5.1 | - | | |
| Ref No. | IC3800 | | | | | | | | | | | | | | | | | | | |
| MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | | | | | | | | | |
| CD PLAY | 4.6 | 4.6 | 4.6 | 0 | 4.6 | 4.6 | 4.6 | 9.1 | | | | | | | | | | | | |
| STANDBY | 4.6 | 4.6 | 4.6 | 0 | 4.6 | 4.6 | 4.6 | 9.2 | | | | | | | | | | | | |
| Ref No. | Q2311 | | | | | | | | | | | | | | | | | | | |
| MODE | E | C | B | | E | C | B | | | E | C | B | | | E | C | B | | | |
| CD PLAY | 0 | 0 | -0.9 | | 0 | 0 | -0.9 | | | 0 | 0 | -0.9 | | | 0 | 0 | 0.6 | 0 | 0 | -0.9 |
| STANDBY | 0 | 0 | 0.6 | | 0 | 0 | 0.6 | | | 0 | 0 | 0.6 | | | 0 | 0 | 0.6 | 0 | 0 | 0.6 |
| Ref No. | Q2441 | | | | | | | | | | | | | | | | | | | |
| MODE | E | C | B | | E | C | B | | | E | C | B | | | E | C | B | | | |
| CD PLAY | 0 | 0 | -0.9 | | 0.4 | 1.7 | 1 | | | 0 | -0.9 | 0 | | | 0 | -1.8 | 0 | 0 | -1.8 | 0 |
| STANDBY | 0 | 0 | 0.6 | | 0.4 | 0.6 | 1.1 | | | 1.3 | 1 | 0 | | | 0 | -1.9 | 0 | 0 | -1.9 | 0 |
| Ref No. | Q2553 | | | | | | | | | | | | | | | | | | | |
| MODE | E | C | B | | E | C | B | | | E | C | B | | | E | C | B | | | |
| CD PLAY | 0 | 0 | -2 | | 0 | 0 | -1.8 | | | 0 | 0 | 0.6 | | | 0 | -2.1 | 0 | 0 | 0 | 0.7 |
| STANDBY | 0 | 0 | -1.9 | | 0 | 0 | -1.8 | | | 0 | 0 | 0.6 | | | 2.9 | 2.8 | 0 | 0 | 2.9 | 0 |
| Ref No. | Q2558 | | | | | | | | | | | | | | | | | | | |
| MODE | E | C | B | | E | C | B | | | E | c | B | | | E | C | B | | | |
| CD PLAY | 0 | 0 | -2.4 | | 3.7 | 4.2 | 2.9 | | | 0 | 3.3 | 0 | | | 12.3 | 0 | 12.3 | 0 | 0 | 12.1 |
| STANDBY | 0 | 0 | 0.7 | | 1.8 | 4.2 | 0 | | | 0 | 3.2 | 0 | | | 12.4 | 0 | 12.4 | 0 | 0 | 12.2 |
| Ref No. | Q2950 | | | | | | | | | | | | | | | | | | | |
| MODE | E | C | B | | E | C | B | | | E | C | B | | | E | C | B | | | |
| CD PLAY | 3.3 | 3.3 | 2.6 | | 3.3 | 3.3 | 2.6 | | | 0 | 0 | 3.2 | | | 0 | 3.2 | 0 | 0 | 12.3 | 0 |
| STANDBY | 3.3 | 3.3 | 2.6 | | 3.3 | 3.3 | 2.6 | | | 0 | 0 | 3.2 | | | 0 | 0 | 2.6 | 0 | 12.1 | 0 |
| Ref No. | Q3501 | | | | | | | | | | | | | | | | | | | |
| MODE | E | C | B | | E | C | B | | | E | C | B | | | E | C | B | | | |
| CD PLAY | 0 | 12.1 | 0 | | 0 | 0.8 | 1.5 | | | 12.3 | 0 | 12.2 | | | 12.3 | 0 | 12.2 | 12.1 | 0 | 12.1 |
| STANDBY | 0 | 12.1 | 0 | | 0 | 0.8 | 1.5 | | | 12.2 | 0 | 12.2 | | | 12.2 | 0 | 12.2 | 12.1 | 0 | 12.1 |
| Ref No. | Q3506 | | | | | | | | | | | | | | | | | | | |
| MODE | E | C | B | | E | C | B | | | E | C | B | | | E | C | B | | | |
| CD PLAY | 0 | 12.1 | 0 | | 0 | 0 | 0.2 | | | 0 | 3.3 | 0 | | | 8.7 | 15.3 | 9.3 | 11.6 | 0 | 0.1 |
| STANDBY | 0 | 12.1 | 0 | | 0 | 0 | 0.2 | | | 0 | 3.3 | 0 | | | 8.6 | 15 | 9.3 | 11.6 | 0 | 0.1 |
| Ref No. | Q3537 | | | | | | | | | | | | | | | | | | | |
| MODE | E | C | B | | E | C | B | | | | | | | | | | | | | |
| CD PLAY | 11.6 | 0 | 0.1</td | | | | | | | | | | | | | | | | | |

13.1.3. PANEL P.C.B

| Ref No. | IC601 | | | | | | | | | | | | | | | | | | | |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| CD PLAY | 0 | 0 | 0 | 0 | 1.5 | 1.3 | 1.8 | 2.7 | 1.8 | 0 | 0 | 0 | 3.3 | -17.1 | -11 | -18 | -24.8 | -27.8 | -29.7 | -27.7 |
| STANDBY | 0 | 0 | 0 | 0 | 1.8 | 1.5 | 2.5 | 2.6 | 2.4 | 0 | 0 | 0 | 3.3 | -17 | -11 | -7 | 22.6 | 24.6 | 24.2 | 24.2 |
| Ref No. | IC601 | | | | | | | | | | | | | | | | | | | |
| | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| CD PLAY | -20.6 | -21.5 | -22.8 | -22.7 | -23.8 | -22.8 | -18.2 | -22.7 | -22.8 | -20 | -19.3 | -20.3 | -20.1 | -22.8 | -22.8 | -22.5 | -22.8 | -22.8 | -22.8 | -22.8 |
| STANDBY | 24.2 | 24.3 | 24 | 24.2 | 24.3 | 24 | 24.2 | 24.2 | 24.3 | 24.4 | 24.2 | 24.1 | 24.1 | 24.1 | 24.2 | 24.2 | 24.1 | 24.1 | 24.3 | 24.1 |
| Ref No. | IC601 | | | | | | | | | | | | | | | | | | | |
| | 41 | 42 | 43 | 44 | | | | | | | | | | | | | | | | |
| CD PLAY | -22.5 | -22.8 | 32 | 0 | | | | | | | | | | | | | | | | |
| STANDBY | 24.1 | 24.1 | 3.3 | 0 | | | | | | | | | | | | | | | | |
| Ref No. | CG601 | | | | | CG602 | | | | | | | | | | | | | | |
| | E | C | B | | | E | C | B | | | | | | | | | | | | |
| CD PLAY | 0.7 | 0.6 | 0.1 | | | 5.8 | 8.0 | 5.0 | | | | | | | | | | | | |
| STANDBY | 0.7 | 0.6 | 0.1 | | | 5.8 | 9.4 | 5.2 | | | | | | | | | | | | |

SA-AK960GCP PANEL P.C.B.

13.1.4. SUB PANEL P.C.B

| Ref No. | IC601 | | | | | | | | | | | | | | | | | | | |
|---------|-------|---|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| CD PLAY | 0 | 0 | 0 | 0 | 1.3 | 1.3 | 1.4 | 1.4 | 1.4 | 1.9 | 1.8 | 1.7 | 1.6 | 1.6 | 1.5 | 3.3 | | | | |
| STANDBY | 0 | 0 | 0 | 0 | 0 | - | 0 | - | - | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | |

SA-AK960GCP SUB PANEL P.C.B.

13.1.5. POWER P.C.B

| Ref No. | IC601 | | | | | | | | | | | | | | | | | | | |
|---------|-------|-----|-----|------|-----|-------|-------|------|-------|------|-------|-------|-------|------|------|-------|------|------|------|-------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| CD PLAY | 2.9 | 0 | 0 | 30.1 | 0 | -24.2 | -21.1 | 20.4 | -21.2 | 20.8 | -24.2 | -17 | -20.2 | 81.1 | 84.8 | 30.3 | -24 | -24 | 0 | -40 |
| STANDBY | 2.9 | 0 | 0 | 30.2 | 0 | 29.1 | 21.3 | 30.6 | 90 | 78.4 | 29.3 | 17.2 | 20.2 | 79.7 | 91.1 | 30.6 | 29 | 26.1 | 0 | 30.2 |
| Ref No. | IC601 | | | | | | | | | | | | | | | | | | | |
| | 21 | 22 | 23 | | | | | | | | | | | | | | | | | |
| CD PLAY | 0 | 0 | 3.7 | | | | | | | | | | | | | | | | | |
| STANDBY | 0 | 0 | 2.2 | | | | | | | | | | | | | | | | | |
| Ref No. | IC601 | | | | | | | | | | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| CD PLAY | 2.9 | 0 | 0 | 30.1 | 0 | -28 | -20.8 | 20.4 | 81 | 80.7 | -24.2 | -17.3 | -20.2 | 28.9 | 91 | 30.6 | -24 | -24 | 0 | -31.1 |
| STANDBY | 2.9 | 0 | 0 | 30 | 0 | 29 | 29.9 | 30.4 | 90.7 | 76.4 | 29.2 | 17.2 | 20.2 | 79.1 | 90.5 | 30.9 | 29 | 29 | 0 | 29.9 |
| Ref No. | IC601 | | | | | | | | | | | | | | | | | | | |
| | 21 | 22 | 23 | | | | | | | | | | | | | | | | | |
| CD PLAY | 0 | 0 | 3.7 | | | | | | | | | | | | | | | | | |
| STANDBY | 0 | 0 | 2.2 | | | | | | | | | | | | | | | | | |
| Ref No. | IC601 | | | | | | | | | | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| CD PLAY | 2.9 | 0 | 0 | 29.8 | 0 | -25.8 | -20.6 | 20.3 | -21.1 | 20.4 | -24.2 | -18.7 | -20.2 | 29.4 | 90.2 | 30.6 | -24 | -24 | 0 | -40 |
| STANDBY | 2.9 | 0 | 0 | 29.9 | 0 | 29.9 | 20.8 | 30.2 | 90.5 | 29.3 | 16.8 | 20.3 | 90.7 | 90.9 | 30.6 | 29 | 26.1 | 0 | 30.1 | |
| Ref No. | IC601 | | | | | | | | | | | | | | | | | | | |
| | 21 | 22 | 23 | | | | | | | | | | | | | | | | | |
| CD PLAY | 0 | 0 | 3.7 | | | | | | | | | | | | | | | | | |
| STANDBY | 0 | 0 | 2.2 | | | | | | | | | | | | | | | | | |
| Ref No. | IC601 | | | | | | | | | | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | | | | | | |
| CD PLAY | 0 | 0.2 | 4.7 | 0 | 3 | 2.8 | 0 | 2.8 | 2.8 | 2.8 | 2.8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| STANDBY | 0 | 0.2 | 4.2 | 0 | 2.9 | 2.8 | 0 | 2.8 | 2.8 | 2.8 | 2.8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Ref No. | CG102 | | | | | CG103 | | | | | CG104 | | | | | CG105 | | | | |
| | E | C | B | | | E | C | B | | | E | C | B | | | E | C | B | | |
| CD PLAY | 0 | 3.9 | 0 | | | 0 | 3.2 | 0 | | 0 | 3.7 | 0 | | 0 | | 3.7 | 0 | 3.9 | 0 | |
| STANDBY | 0 | 3.8 | 0 | | | 0 | 3.3 | 0 | | 0 | 0 | 0.7 | | | 2.2 | 0 | 3.2 | 0 | 2.2 | C |

SA-AK960GCP POWER P.C.B.

13.1.6. SUB POWER P.C.B

| Ref No. | IC5101 | | | | | | | | | | | | | | | | | | |
|---------|--------|-------|-------|------|------|-------|------|--|------|------|------|--|------|------|------|--|-------|-------|-------|
| | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | |
| CD PLAY | 3.8 | 5.6 | 0 | 12.1 | 3.3 | | | | | | | | | | | | | | |
| STANDBY | 3.8 | 5.6 | 0 | 12.1 | 3.3 | | | | | | | | | | | | | | |
| Ref No. | Q5091 | | | | | | | | | | | | | | | | | | |
| | E | C | B | | E | C | B | | E | C | B | | S | D | G | | S | D | G |
| CD PLAY | 0 | 3.7 | 3.0 | | 3.0 | 3.7 | 0 | | 0 | 0 | 0.1 | | 30.3 | 32 | 47.8 | | -48.4 | -46.8 | -29.1 |
| STANDBY | 0 | 3.7 | 3.0 | | 3.0 | 3.7 | 0 | | 0 | 0 | 0.2 | | 30.4 | 32 | 47.8 | | -48.4 | -46.8 | -29.2 |
| Ref No. | Q5108 | | | | | | | | | | | | | | | | | | |
| | E | C | B | | E | C | B | | E | C | B | | E | C | B | | E | C | B |
| CD PLAY | -45.9 | -42.1 | -45.4 | | -4.8 | -19.6 | -5.4 | | 15.2 | 28.4 | 15.8 | | 17.1 | 12.1 | 16.4 | | 17.5 | 16.5 | 17.1 |
| STANDBY | -46 | -42.3 | -45.4 | | -4.8 | -19.6 | -5.4 | | 15.2 | 28.5 | 15.9 | | 17.3 | 12.1 | 16.4 | | 17.5 | 17 | 17.4 |
| Ref No. | Q5114 | | | | | | | | | | | | | | | | | | |
| | E | C | B | | E | C | B | | E | C | B | | | | | | | | |
| CD PLAY | 0 | 14.9 | 12 | | 0 | 3.7 | 3.0 | | 3.0 | 3.7 | 0 | | | | | | | | |
| STANDBY | 0 | 15 | 12 | | 0 | 3.7 | 3.0 | | 3.0 | 3.7 | 0 | | | | | | | | |

SA-AK960GCP SUB POWER P.C.B.

13.1.7. DECK P.C.B

| Ref No. | IC1001 | | | | | | | | | | | | | | | | | | | |
|---------|--------|------|-----|-------|------|-----|-------|------|---|-------|-----|----|-------|----|----|------|------|----|-----|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| CD PLAY | 0 | 0 | 0.6 | 5.5 | 5.5 | 2.8 | 0 | 0.3 | 0 | 1.9 | 7.2 | 0 | 11.3 | 0 | 0 | 0 | 0.3 | 0 | 0.2 | 5.4 |
| STANDBY | 0 | 0 | 0.4 | 0.4 | 0.2 | 0.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.3 | 0 | 0.2 | 0.1 |
| Ref No. | IC1001 | | | | | | | | | | | | | | | | | | | |
| | 21 | 22 | 23 | 24 | | | | | | | | | | | | | | | | |
| CD PLAY | 6.3 | 0.7 | 0 | 0 | | | | | | | | | | | | | | | | |
| STANDBY | 0.3 | 0.3 | 0 | 0 | | | | | | | | | | | | | | | | |
| Ref No. | IC1004 | | | | | | | | | | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | | | | | | | | | | | | | | | |
| CD PLAY | 7.9 | 0 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| STANDBY | 0 | 0 | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| Ref No. | Q1003 | | | Q1004 | | | Q1005 | | | Q1007 | | | Q1017 | | | | | | | |
| | E | C | B | E | C | B | E | C | B | E | C | B | E | C | B | E | C | B | | |
| CD PLAY | 0 | -0.1 | 0 | 0 | 15.3 | 0 | 0 | 15.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11.6 | -0.6 | | | |
| STANDBY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |

SA-AK960GCP DECK P.C.B.

13.1.8. DECK MECHANISM P.C.B

| Ref No. | IC05 | | | | | | | | IC371 | | | | | | | | | | |
|---------|------|---|-----|-----|-----|---|-----|---|-------|---|---|---|---|---|---|---|-----|-----|-----|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 |
| CD PLAY | 0.7 | 5 | 4.2 | 5.3 | 0.7 | 0 | 0.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.7 | 0.1 | 0.3 |
| STANDBY | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

SA-AK960GCP DECK MECHANISM P.C.B.

13.1.9. TRANSFORMER P.C.B

| Ref No. | C945 | | | C946 | | | C947 | | | C948 | | | C949 | | | C950 | | |
|---------|------|-----|------|------|------|------|------|------|-----|------|-----|-----|------|------|------|------|---|---|
| | E | C | B | E | C | B | E | C | B | E | C | B | E | C | B | E | C | B |
| CD PLAY | 0.7 | 0.5 | 12.1 | -0.2 | -0.1 | -0.8 | 0 | -1.1 | 1.0 | 0 | 0.7 | 0.1 | 1.2 | 24.8 | 11.3 | | | |
| STANDBY | 0.0 | 0.2 | 12.2 | 20.1 | 4.5 | 25.7 | 0 | 1.1 | 1.9 | 0 | 0.7 | 0.1 | 12.1 | 29.3 | 1.2 | | | |

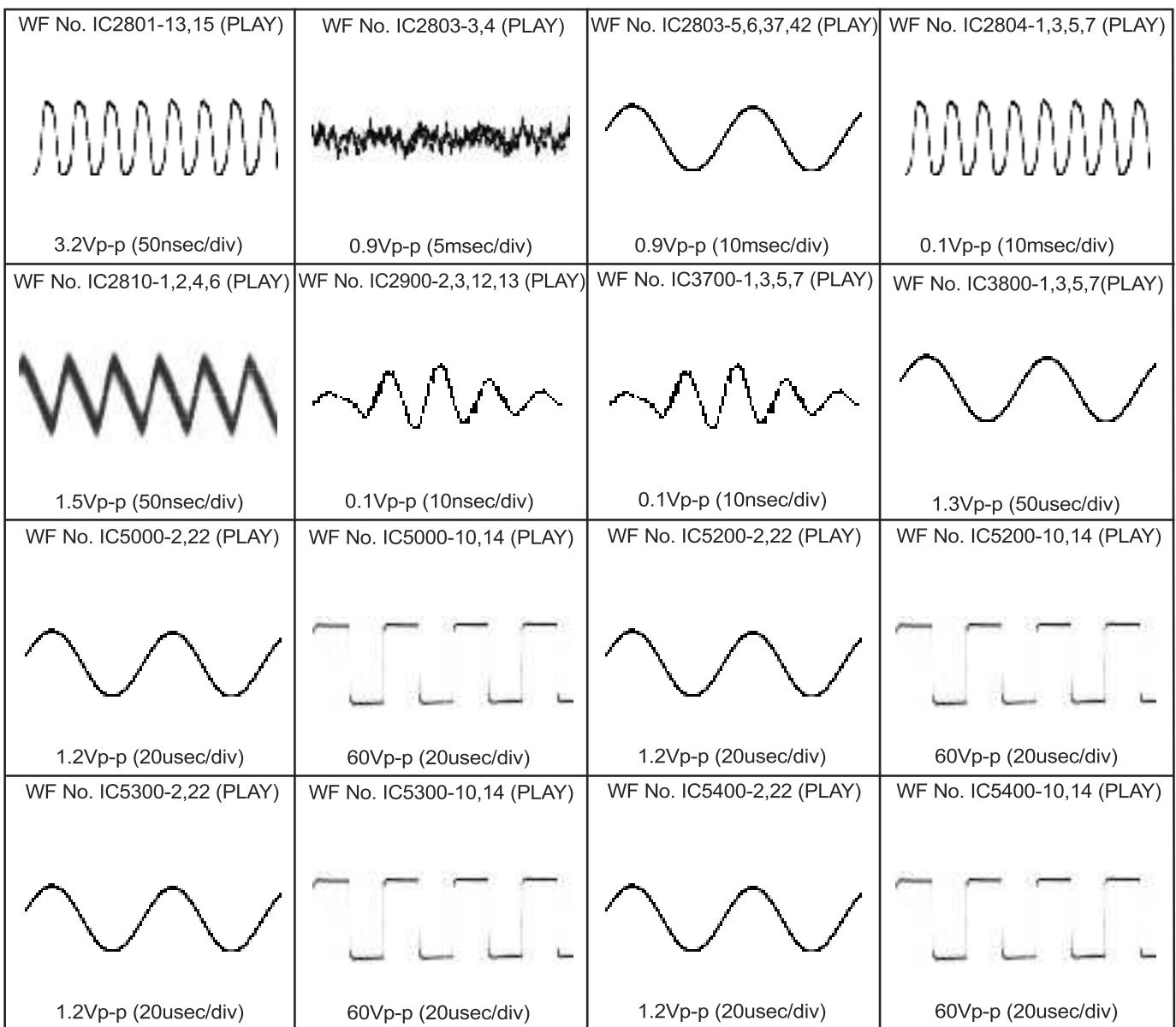
SA-AK960GCP TRANSFORMER P.C.B.

13.1.10. USB P.C.B

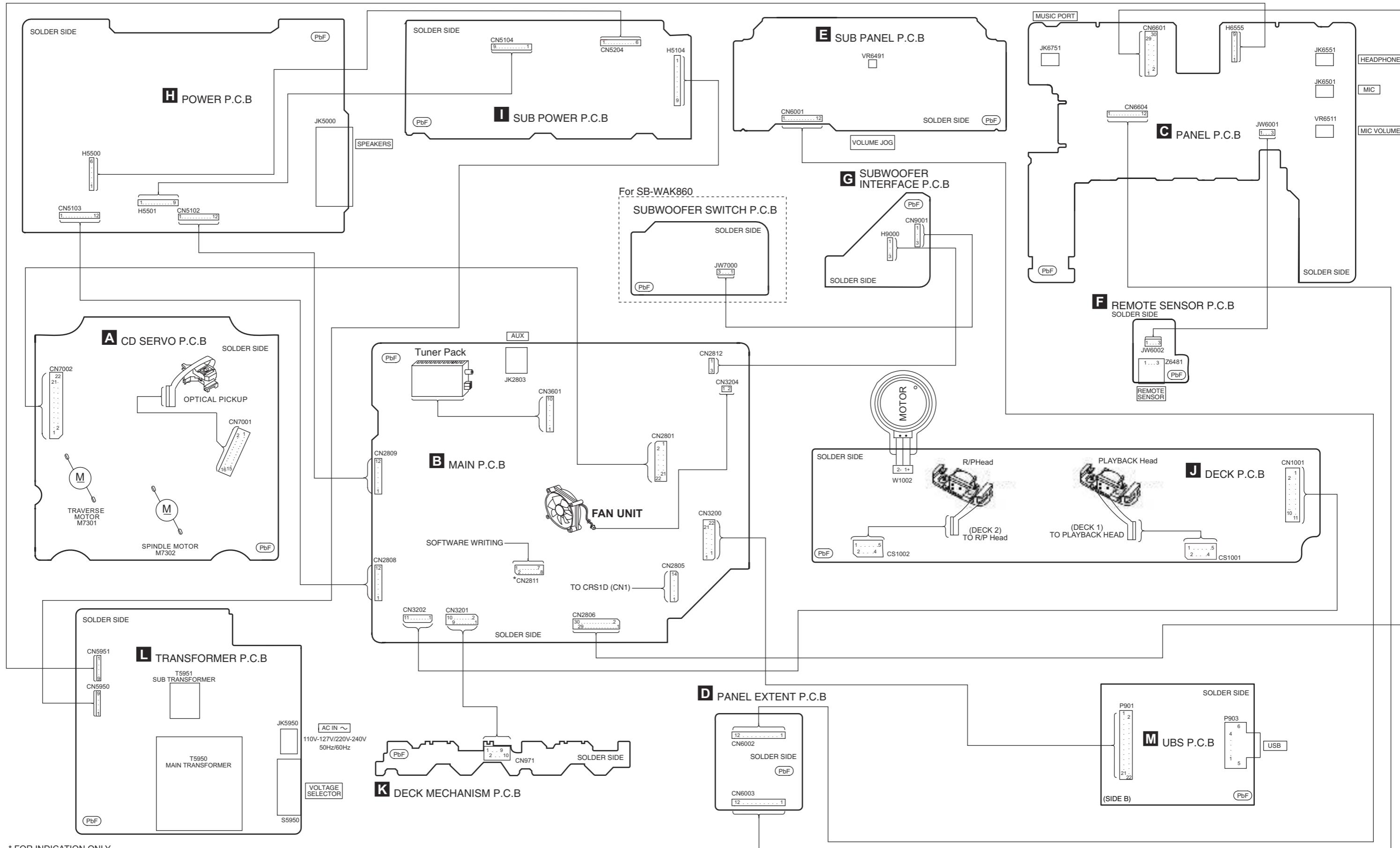
| Ref No. | IC300 | | | | | | | | | | | | | | | | | | | | |
|---------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| | CDDA BY | 1.8 | 3.2 | 3.2 | 0 | 0 | 0 | 3.2 | 3.2 | 3.2 | 1.8 | 0 | 1.8 | 0 | 0 | 0 | 0 | 0 | 3.2 | 0 | 0 |
| Ref No. | IC340 | | | | | | | | | | | | | | | | | | | | |
| | MODE | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| | CDDA BY | 3.8 | 3.2 | 3.2 | 1.4 | 1.4 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 3.2 | 1.4 | 0 |
| Ref No. | IC360 | | | | | | | | | | | | | | | | | | | | |
| | MODE | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| | CDDA BY | 1.4 | 1.2 | 1.2 | 0 | 1.4 | 3.2 | 3.2 | 0.1 | 0.2 | 0 | 0 | 1.2 | 0.1 | 0 | 1.4 | 3.1 | 3.1 | 3.1 | 0 | 1.3 |
| Ref No. | IC380 | | | | | | | | | | | | | | | | | | | | |
| | MODE | 61 | 62 | 53 | 04 | | | | | | | | | | | | | | | | |
| | CDDA BY | 0 | 1.2 | 1.4 | 3.2 | | | | | | | | | | | | | | | | |
| Ref No. | IC361 | | | | | | | | | | | | | | | | | | | | |
| | MODE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | | | | | | | | | |
| | CDDA BY | 0 | 5 | 5 | 3.2 | 3.3 | 0.5 | 0.5 | 0.5 | | | | | | | | | | | | |
| Ref No. | STANDBY | | | | | | | | | | | | | | | | | | | | |
| | MODE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | CDDA BY | 0 | 0.0 | 0 | 0 | | | | | | | | | | | | | | | | |

SA-AK960GCP USB P.C.B.

13.2. Waveform Chart



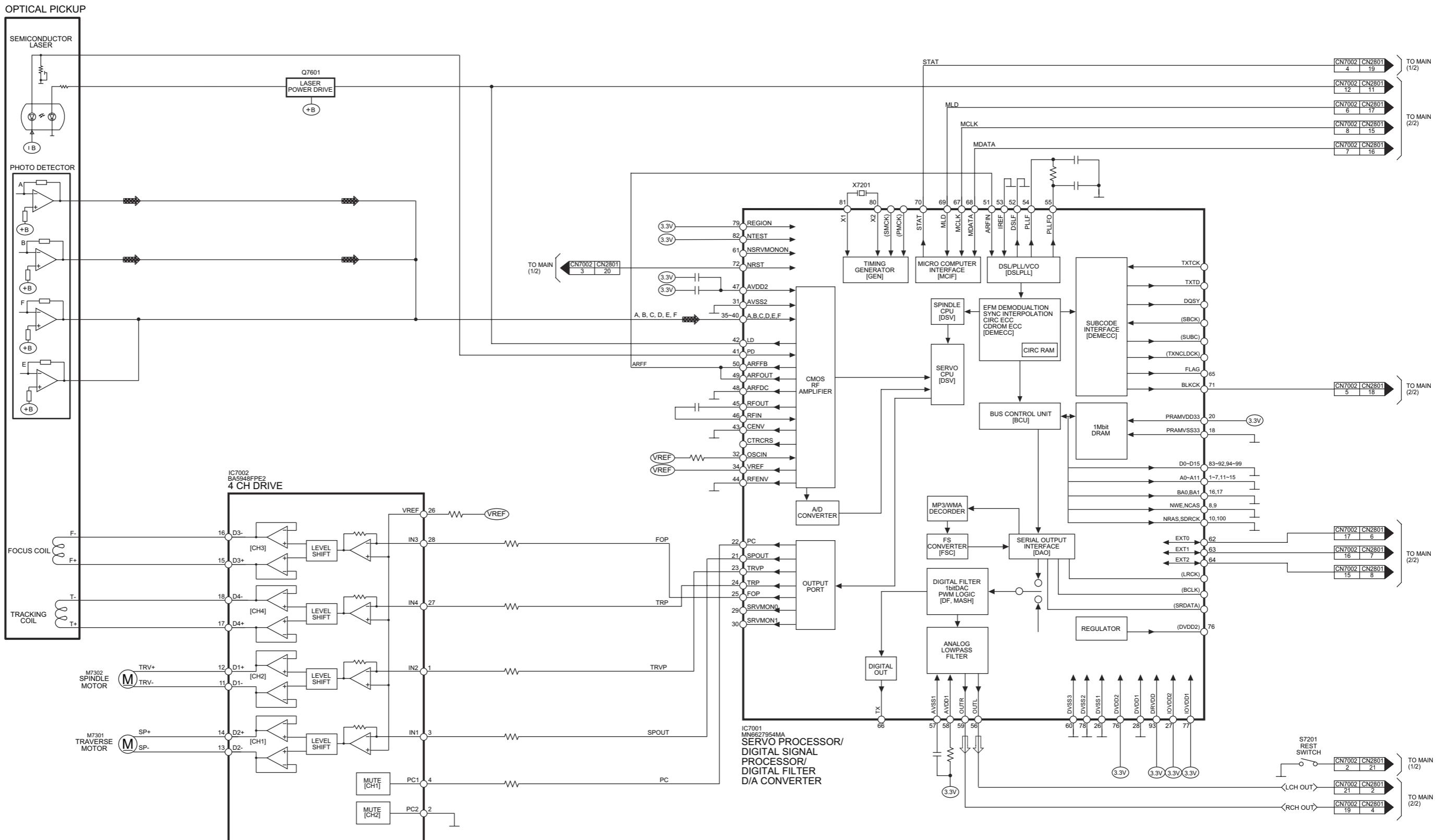
14 Wiring Connection Diagram



* FOR INDICATION ONLY

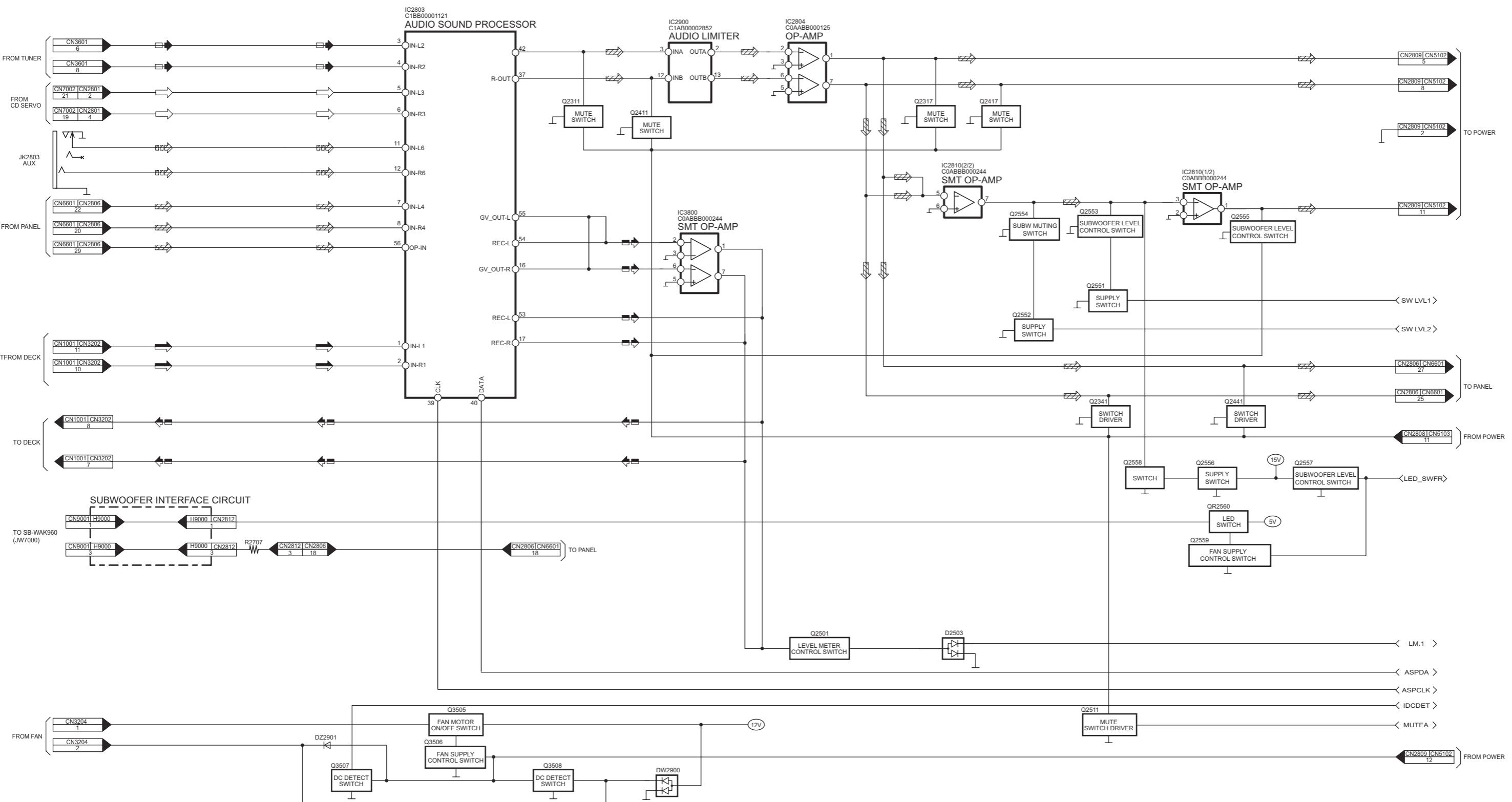
15 Block Diagram

15.1. CD SERVO



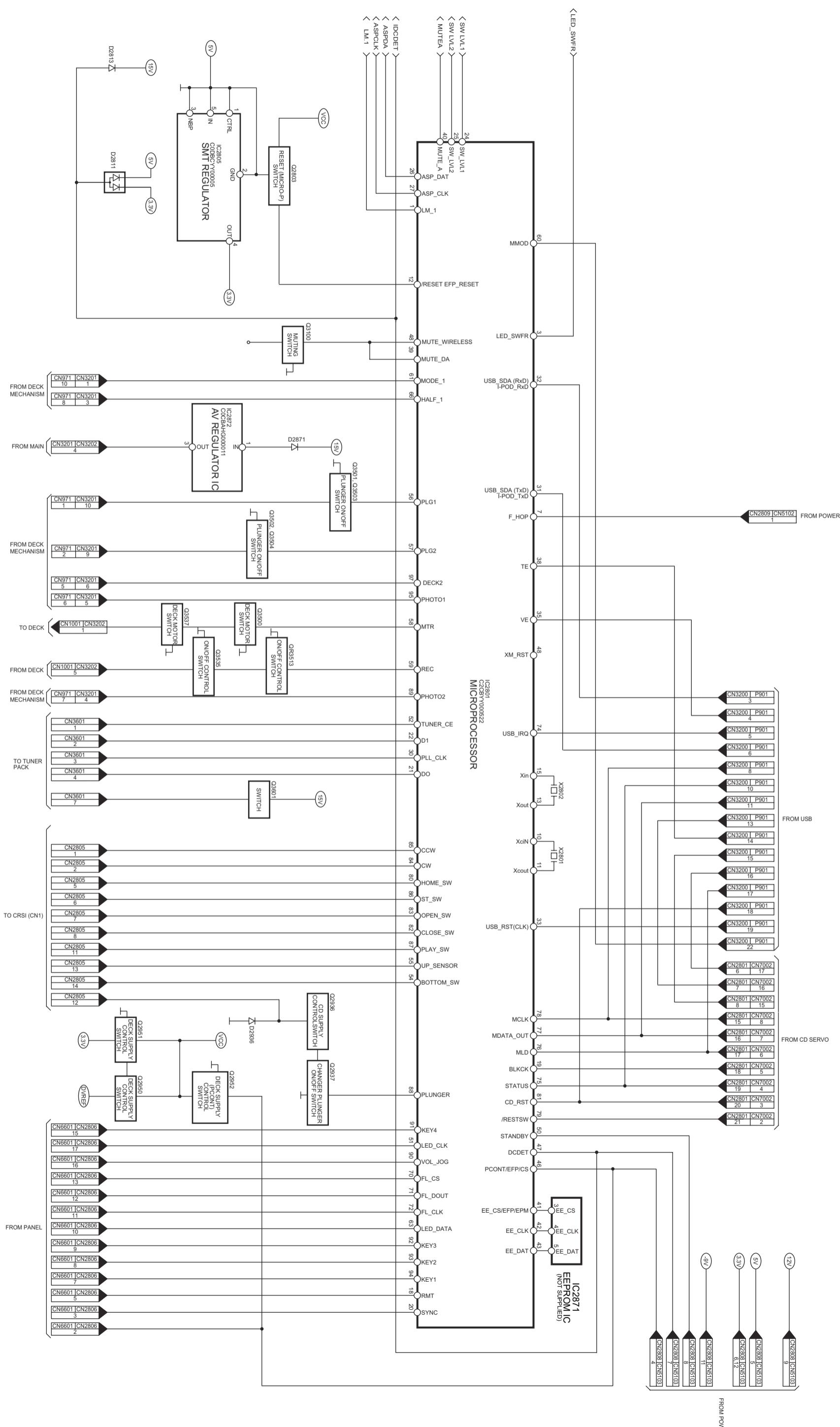
SA-AK960GCP CD SERVO BLOCK DIAGRAM

15.2. MAIN (1/2) & SUBWOOFER INTERFACE

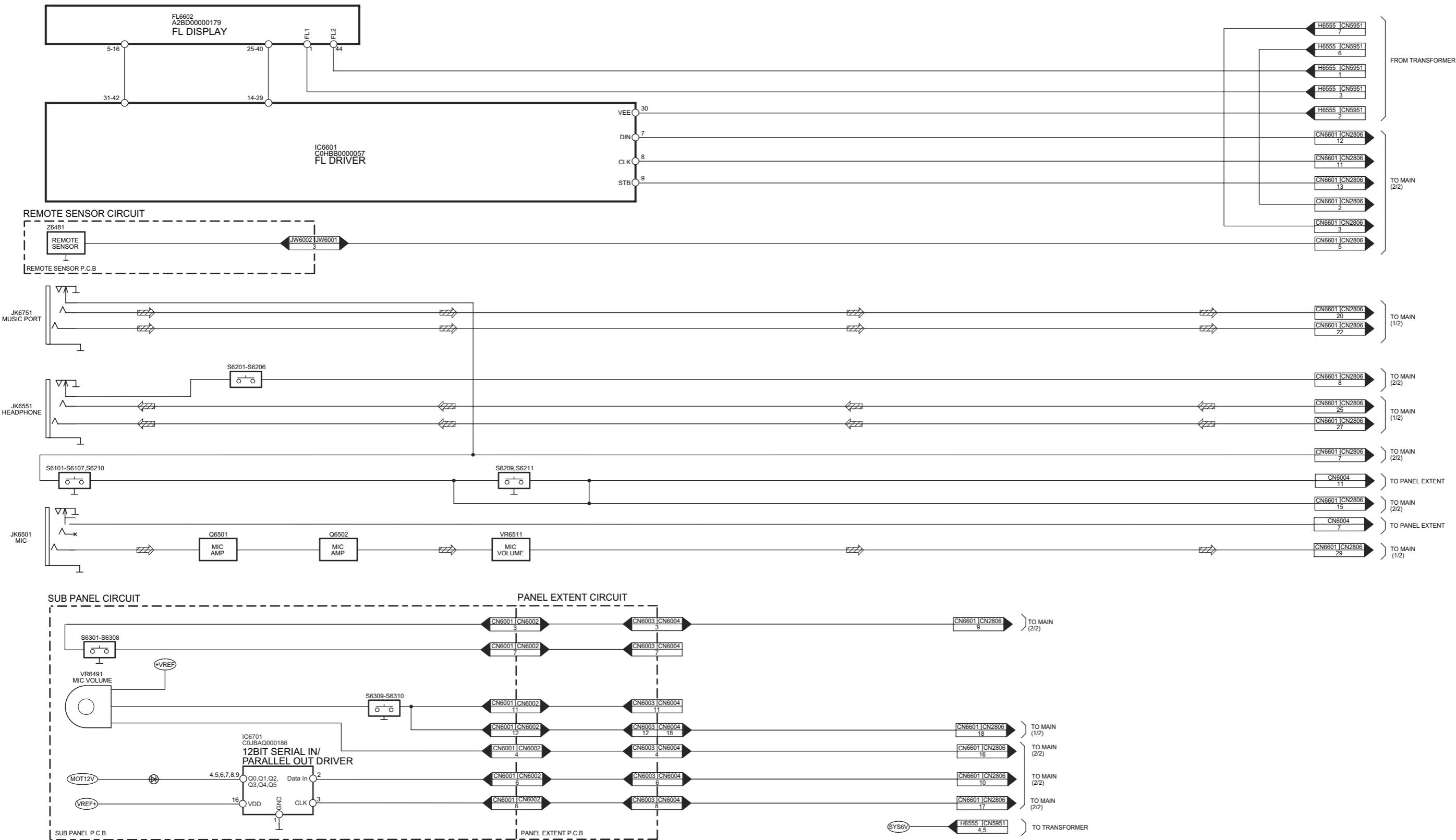


SA-AK960GCP MAIN (1/2) AND SUBWOOFER INTERFACE BLOCK DIAGRAM

15.3. MAIN (2/2)

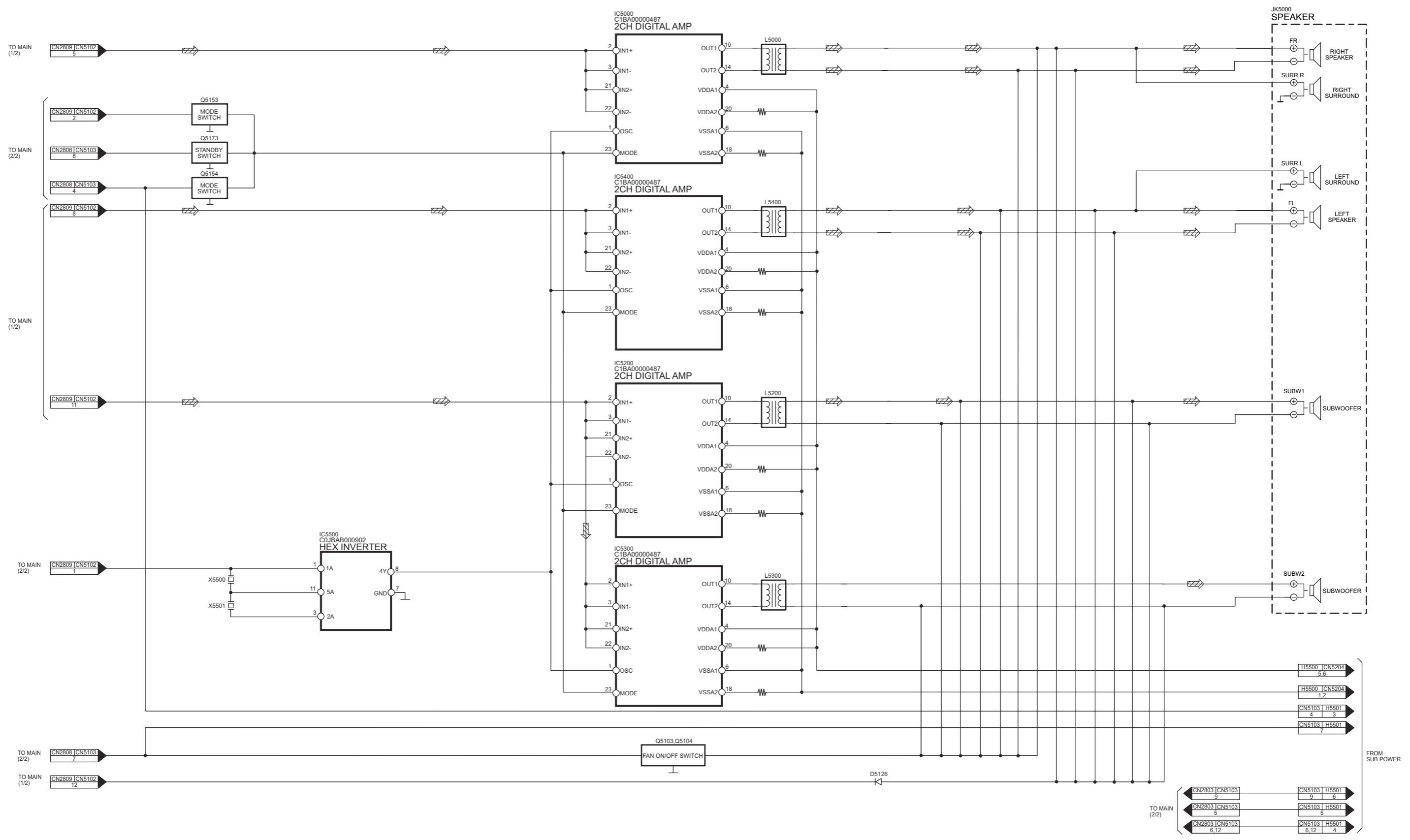


15.4. PANEL

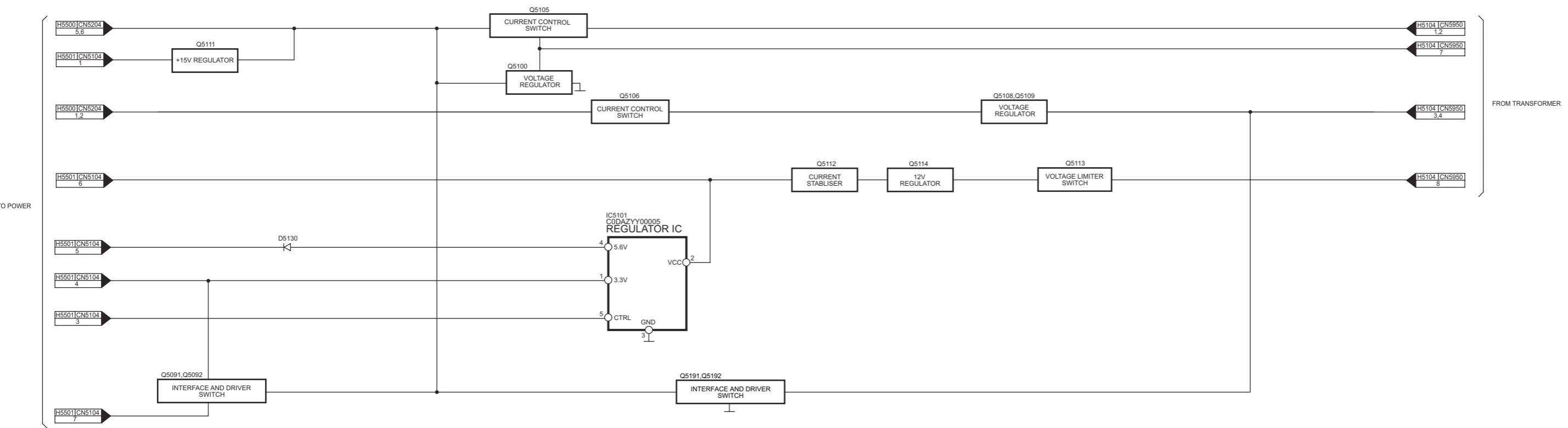


SA-AK960GCP PANEL BLOCK DIAGRAM

15.5. POWER

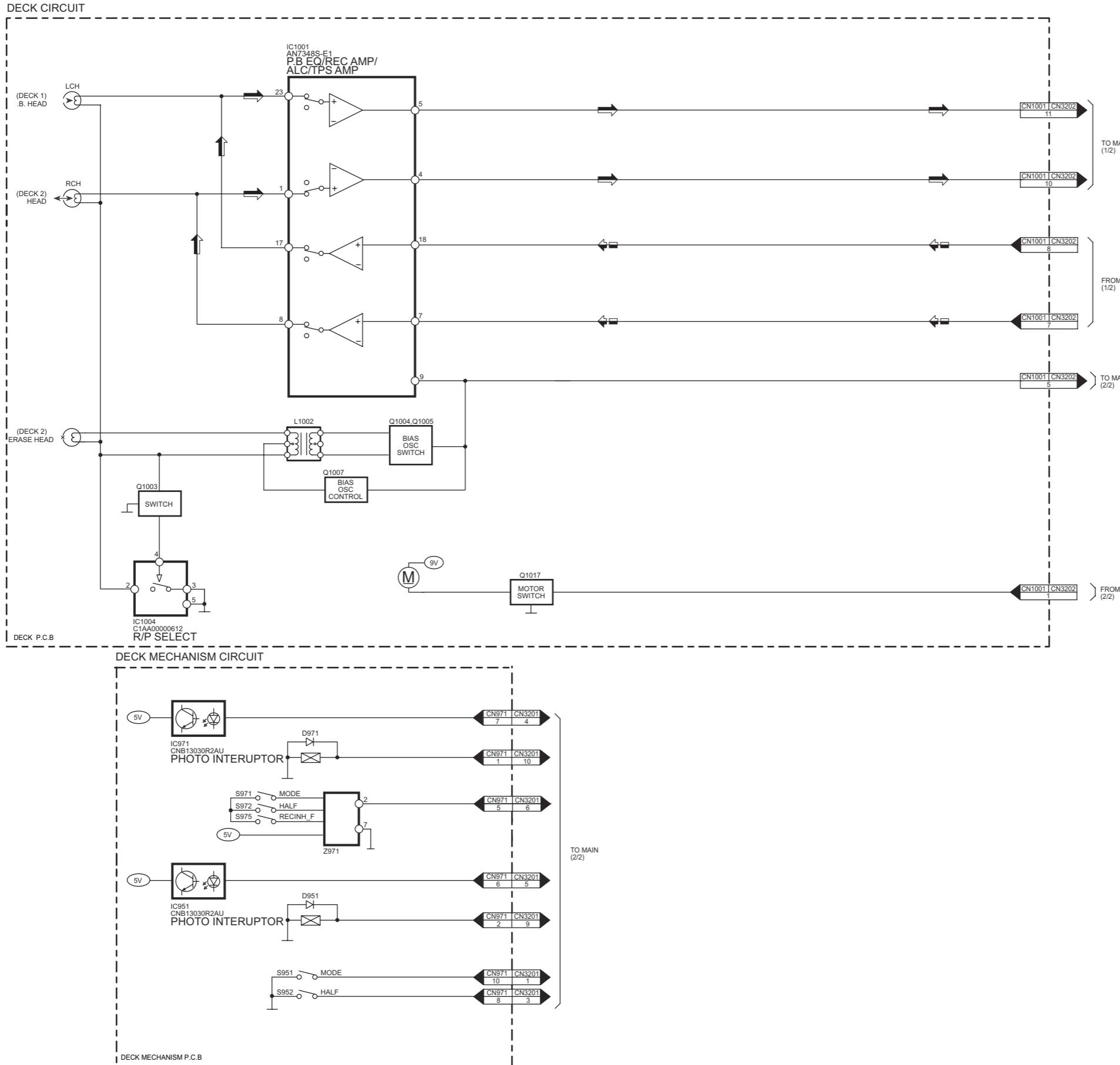


15.6. SUB POWER



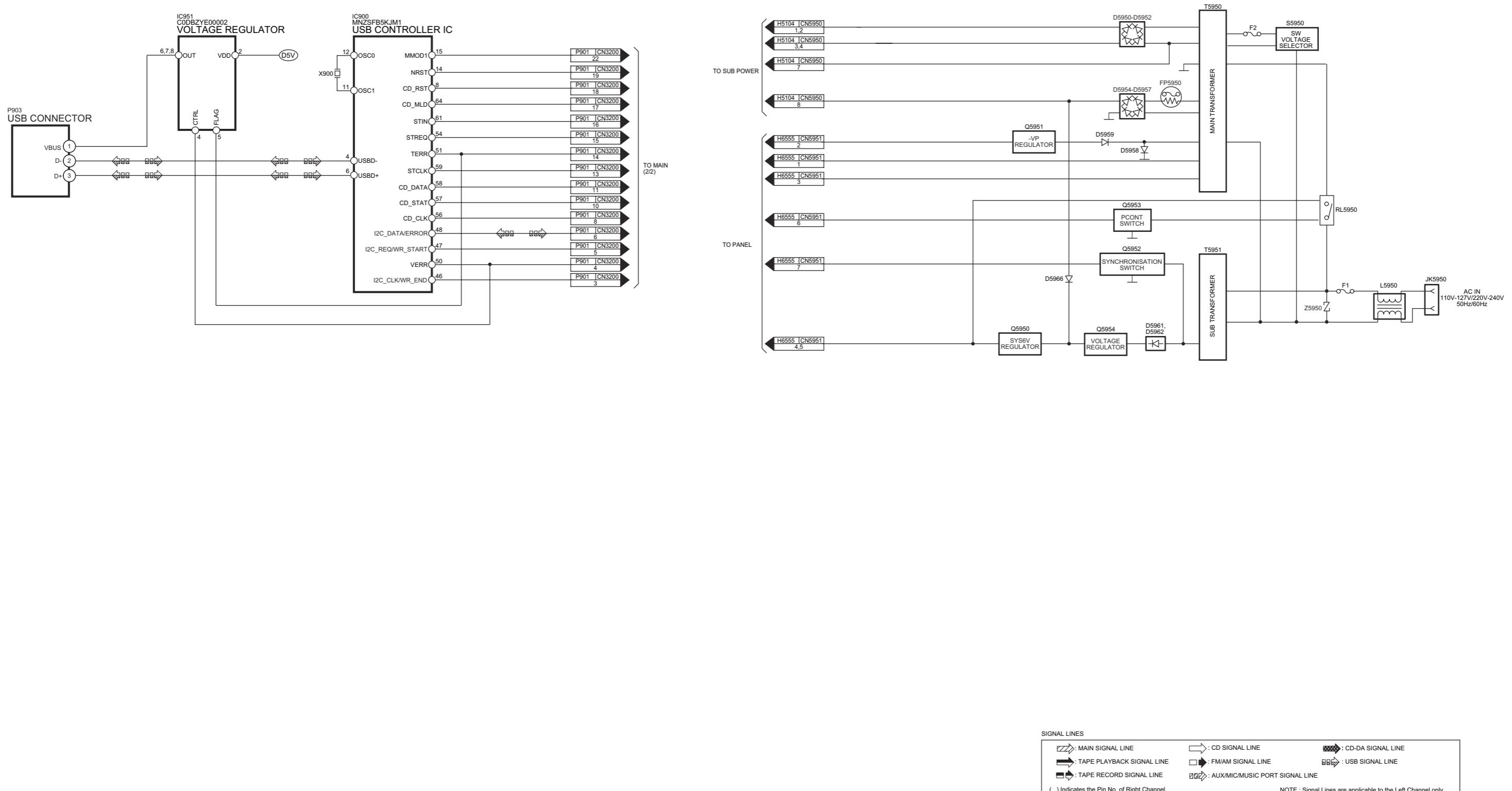
SA-AK960GCP SUB POWER BLOCK DIAGRAM

15.7. DECK & DECK MECHANISM



SA-AK960GCP DECK/DECK MECHANISM BLOCK DIAGRAM

15.8. USB & TRANSFORMER



SA-AK960GCP USB /TRANSFORMER BLOCK DIAGRAM

16 Notes Of Schematic Diagram

(All schematic diagrams may be modified at any time with the development of new technology)

Notes:

- S951:** Mode switch.
- S952:** Half switch.
- S971:** Mode switch.
- S972:** Half switch.
- S975:** Recinh_F switch.
- S5950:** Voltage Selector switch.
- S6101:** Power (\odot/I) switch.
- S6102:** M.EQ- (-) switch.
- S6103:** M.EQ switch.
- S6104:** M.EQ+ (+) switch.
- S6105:** Hard Bass switch.
- S6106:** USB (\leftrightarrow) switch.
- S6107:** Deck Open_1 (\triangle) switch.
- S6201:** Single Change (\triangle) switch.
- S6202:** CD1 (1 \blacktriangleright) switch.
- S6203:** CD2 (2 \blacktriangleright) switch.
- S6204:** CD3 (3 \blacktriangleright) switch.
- S6205:** CD4 (4 \blacktriangleright) switch.
- S6206:** CD5 (5 \blacktriangleright) switch.
- S6209:** Multi Change (\triangle) switch.
- S6210:** Deck Open_2 (\triangle) switch.
- S6211:** Open/Close (\triangle) switch.
- S6301:** EXT-IN switch.
- S6302:** CD (CD $\blacktriangleright/\parallel$) switch.
- S6303:** Display switch.
- S6304:** Deck 1/2 switch.
- S6305:** Rec (\bullet) switch.
- S6306:** REW (REW/\blacksquare) switch.
- S6307:** FF (FF/\blacksquare) switch.
- S6308:** Stop/ -Demo ($\text{STOP}, \blacksquare$) switch.
- S6309:** Tuner/Band switch.
- S6310:** Tape (TAPE, \blacktriangleright) switch.
- S7201:** Rest switch.
- VR6491:** VR Volume jog.
- VR6511:** VR Mic volume jog.

• Voltage and Signal lines:

- : +B Signal line
- : -B Signal line
- : CD-DA signal line
- : CD signal line
- : FM/AM signal line
- : MAIN signal line
- : TAPE PLAYBACK signal line
- : TAPE RECORD signal line
- : AUX / MIC / MUSIC PORT signal line
- : USB signal line

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD.
REPLACE ONLY WITH SAME
TYPE F1 T5AL, 250V FUSE
TYPE F2 T3.15AL, 250V FUSE



RISK OF FIRE-REPLACE FUSE AS MARKED.

FUSE CAUTION

These symbols located near the fuse indicate that the fuse used is a fast operating type. For continued protection against fire hazard, replace with the same type fuse. For fuse rating, refer to the marking adjacent to the symbol.

• Importance safety notice :

Components identified by \triangle mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

• Resistor

Unit of resistance is OHM [Ω] ($K=1,000,000$).

• Capacitor

Unit of resistance is μF , unless otherwise noted. F=Farad, $\mu\text{F}=\text{Pico-Farad}$

• Coil

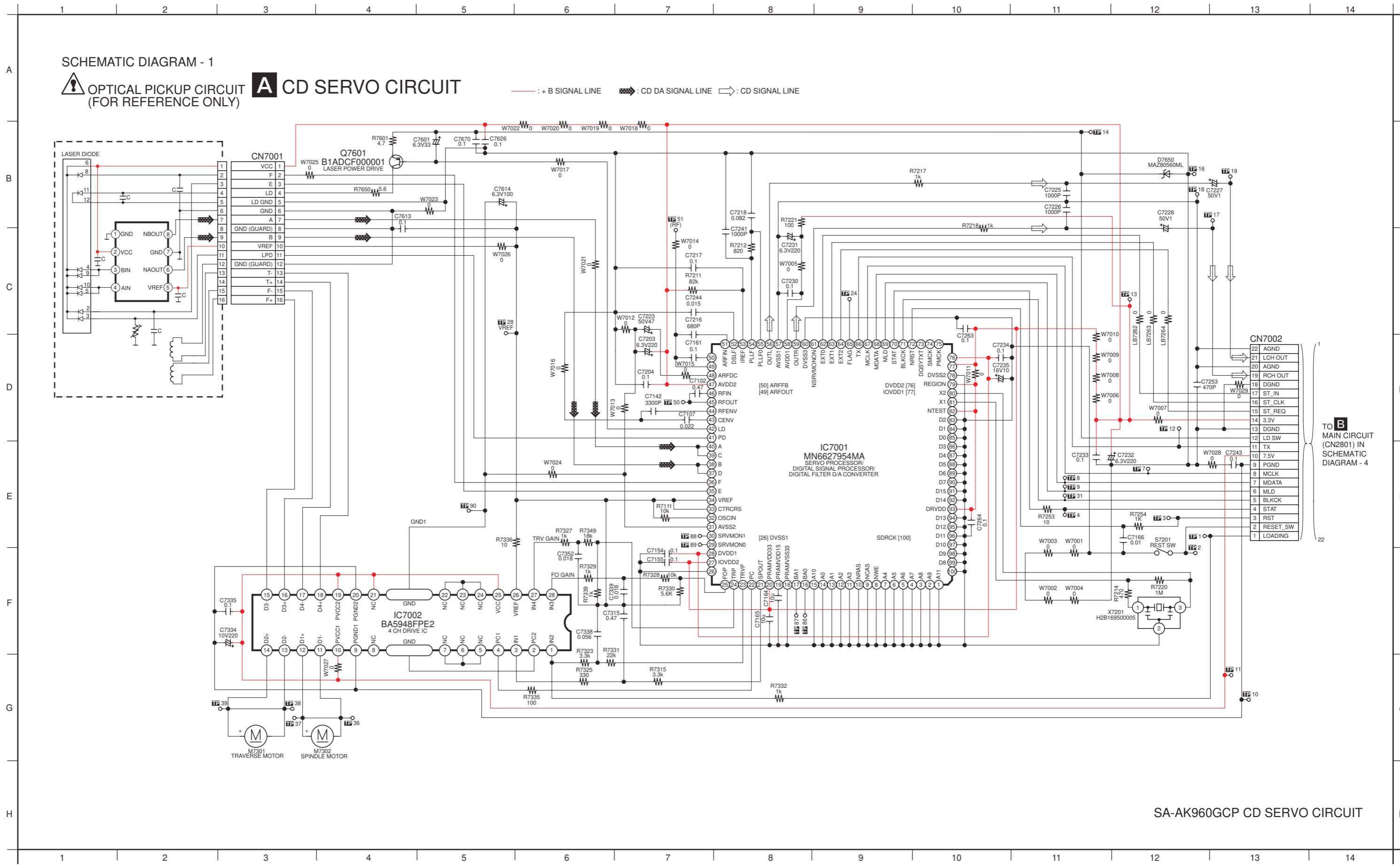
Unit of inductance is H, unless otherwise noted.

• *

For Indication only.

17 Schematic Diagram

17.1. CD SERVO CIRCUIT



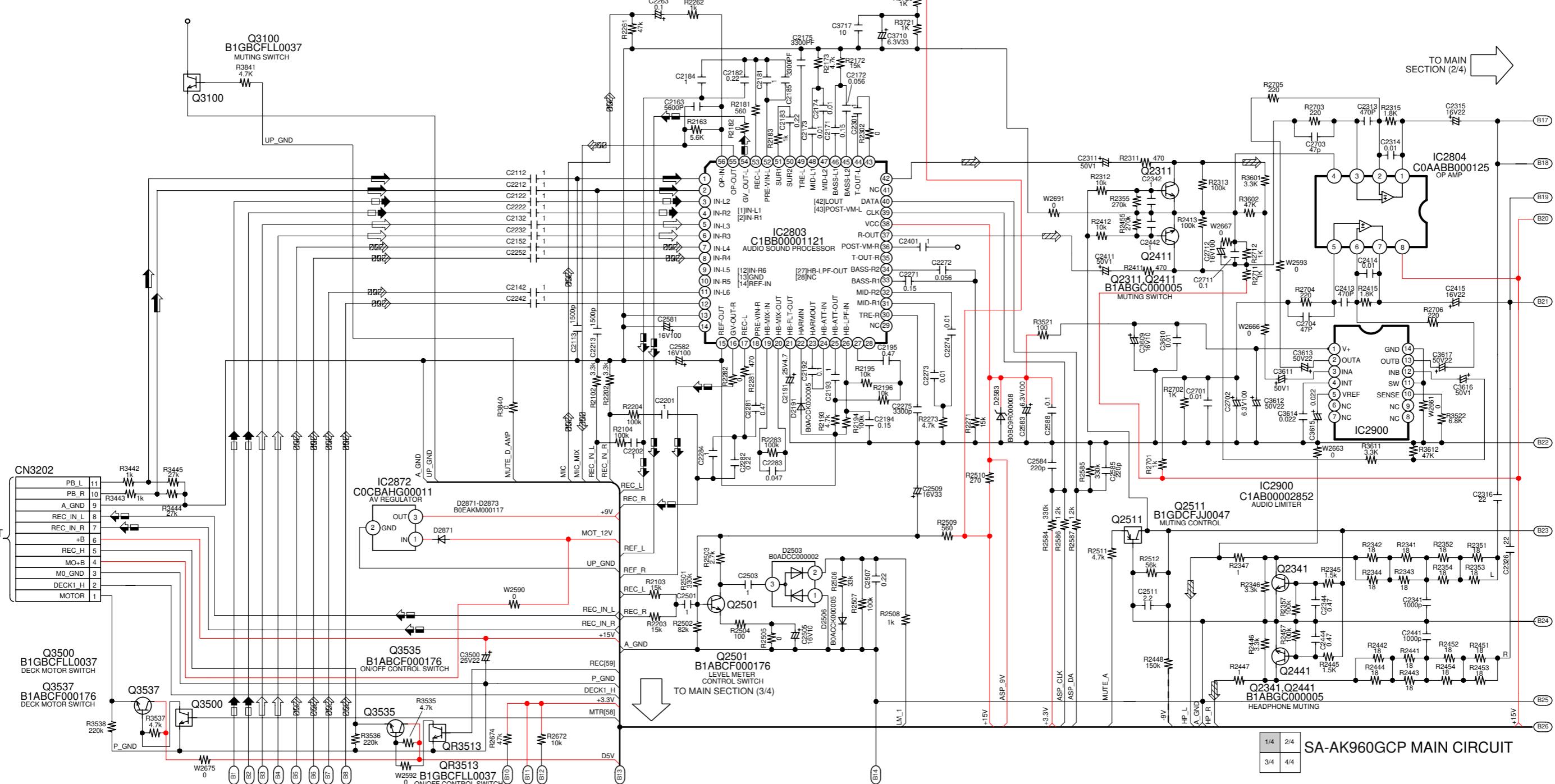
17.2. MAIN CIRCUIT

1 2 3 4 5 6 7 8 9 10 11 12 13 14

SCHEMATIC DIAGRAM - 2

B MAIN CIRCUIT

—+B SIGNAL LINE □→ CD SIGNAL LINE □□ FM/AM SIGNAL LINE □□□ MAIN SIGNAL LINE □→ TAPE PLAYBACK SIGNAL LINE □→ TAPE RECORD SIGNAL LINE □□□ AUX / MIC / MUSIC PORT SIGNAL LINE

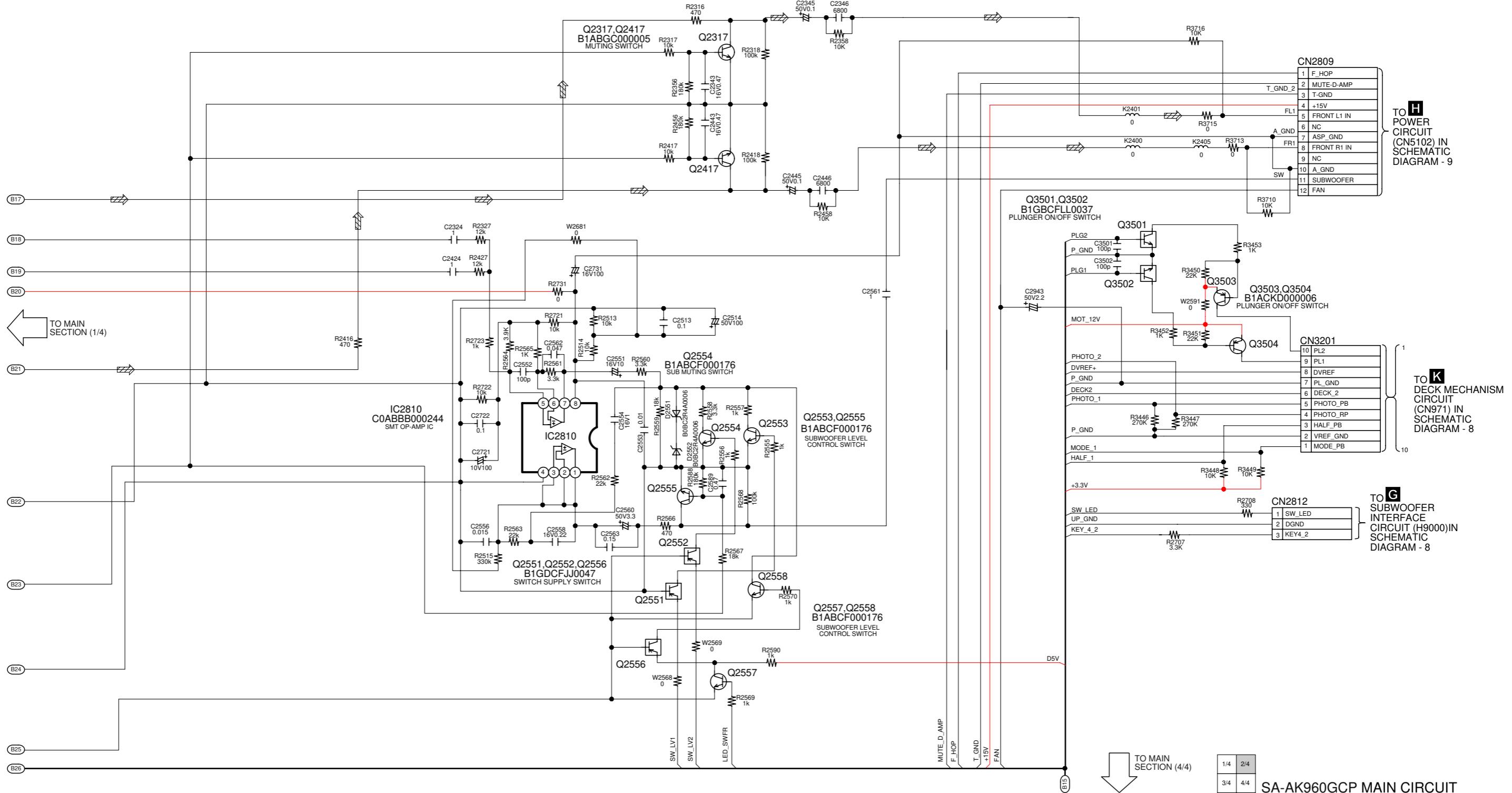


15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28

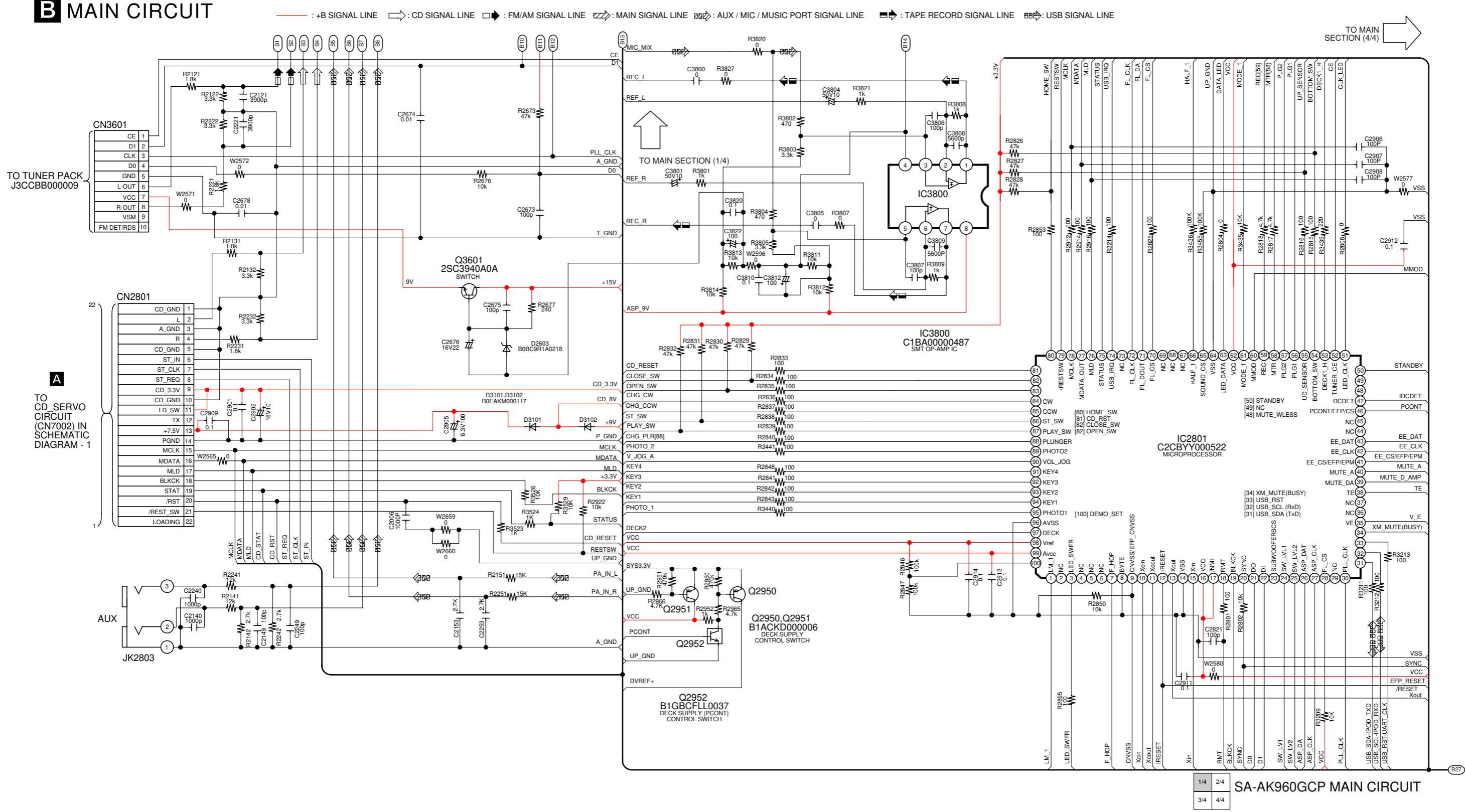
SCHEMATIC DIAGRAM - 3

B MAIN CIRCUIT

— : +B SIGNAL LINE : MAIN SIGNAL LINE

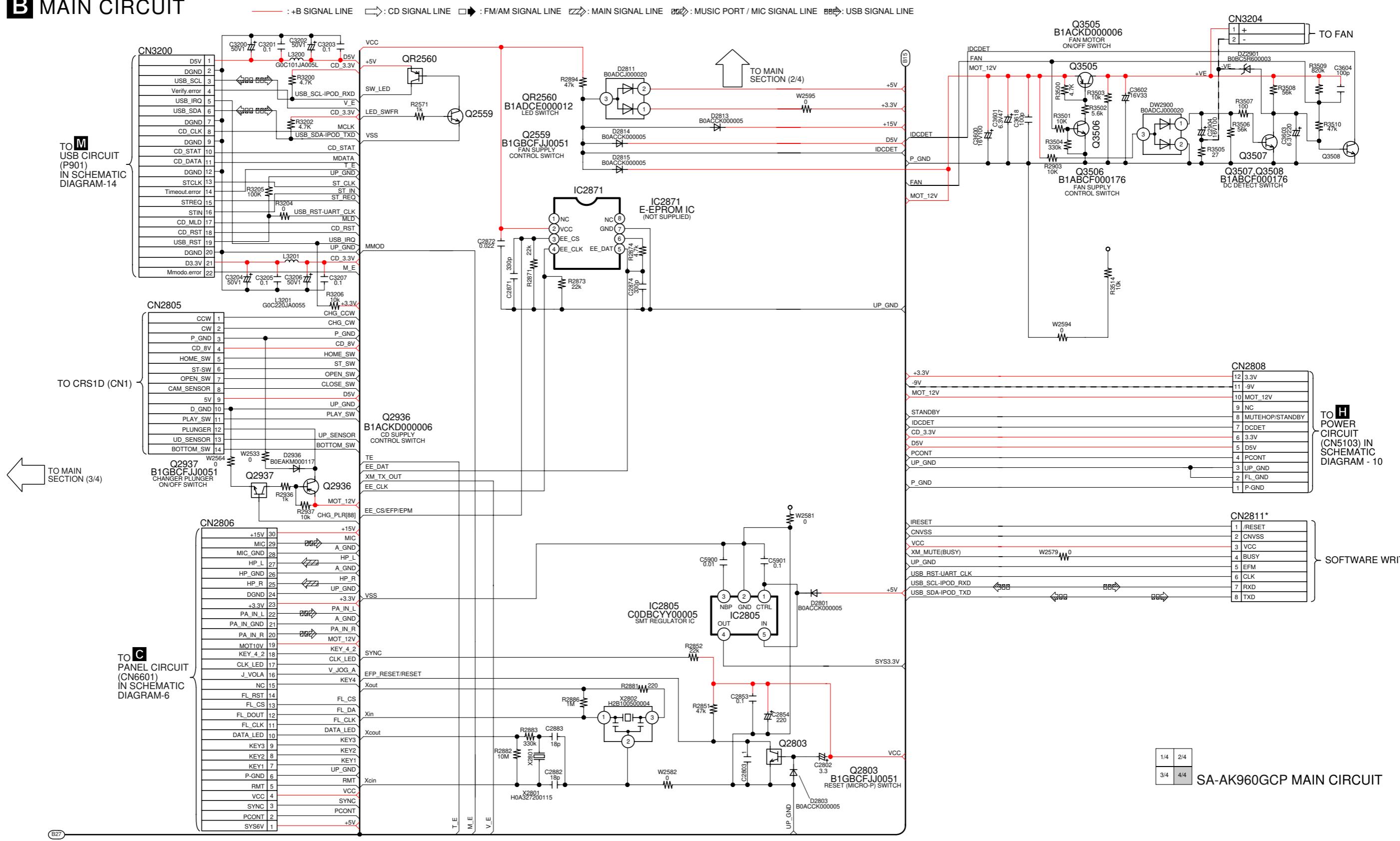


SCHEMATIC DIAGRAM - 4

B MAIN CIRCUIT

SCHEMATIC DIAGRAM - 5

B MAIN CIRCUIT

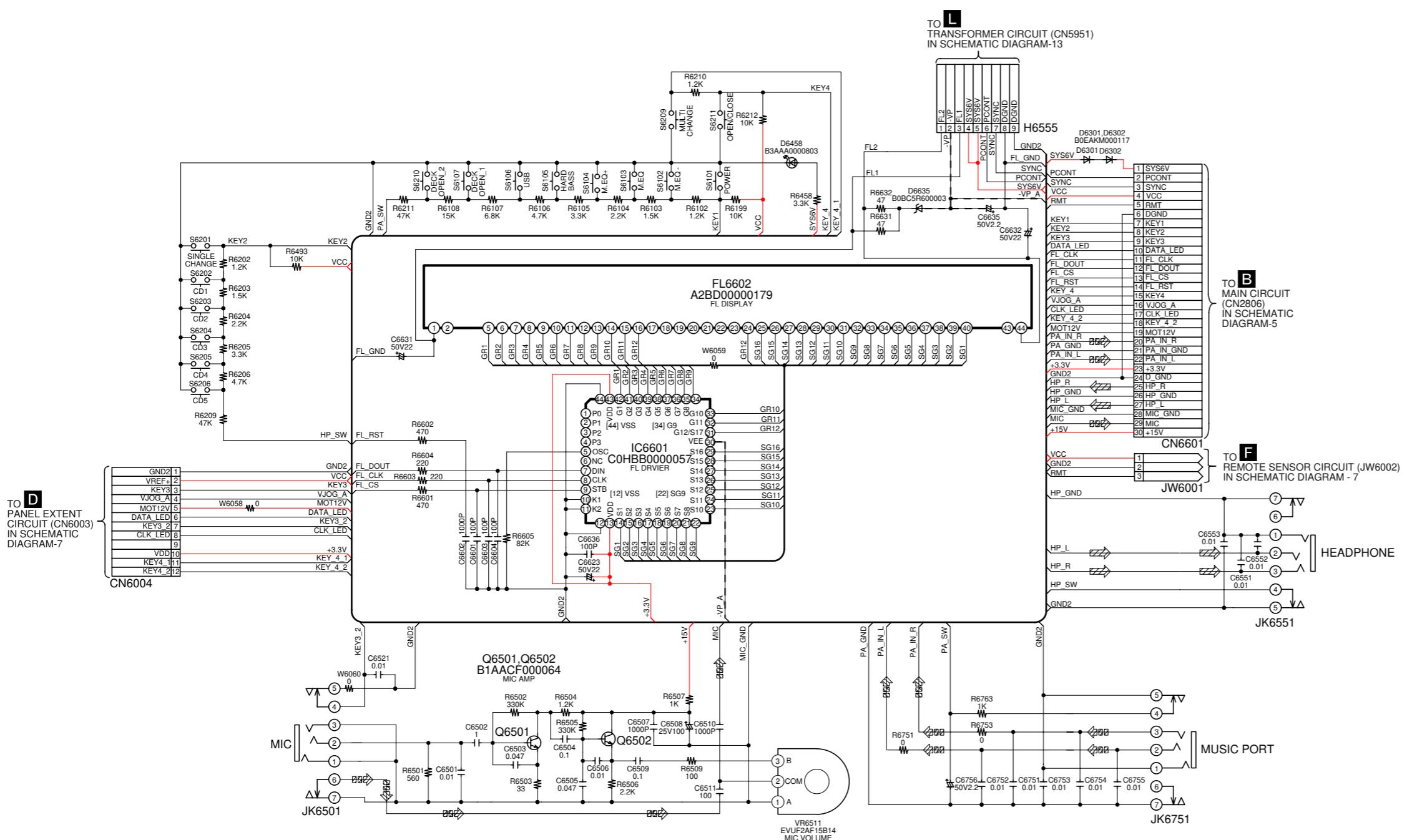


17.3. PANEL CIRCUIT

SCHEMATIC DIAGRAM - 6

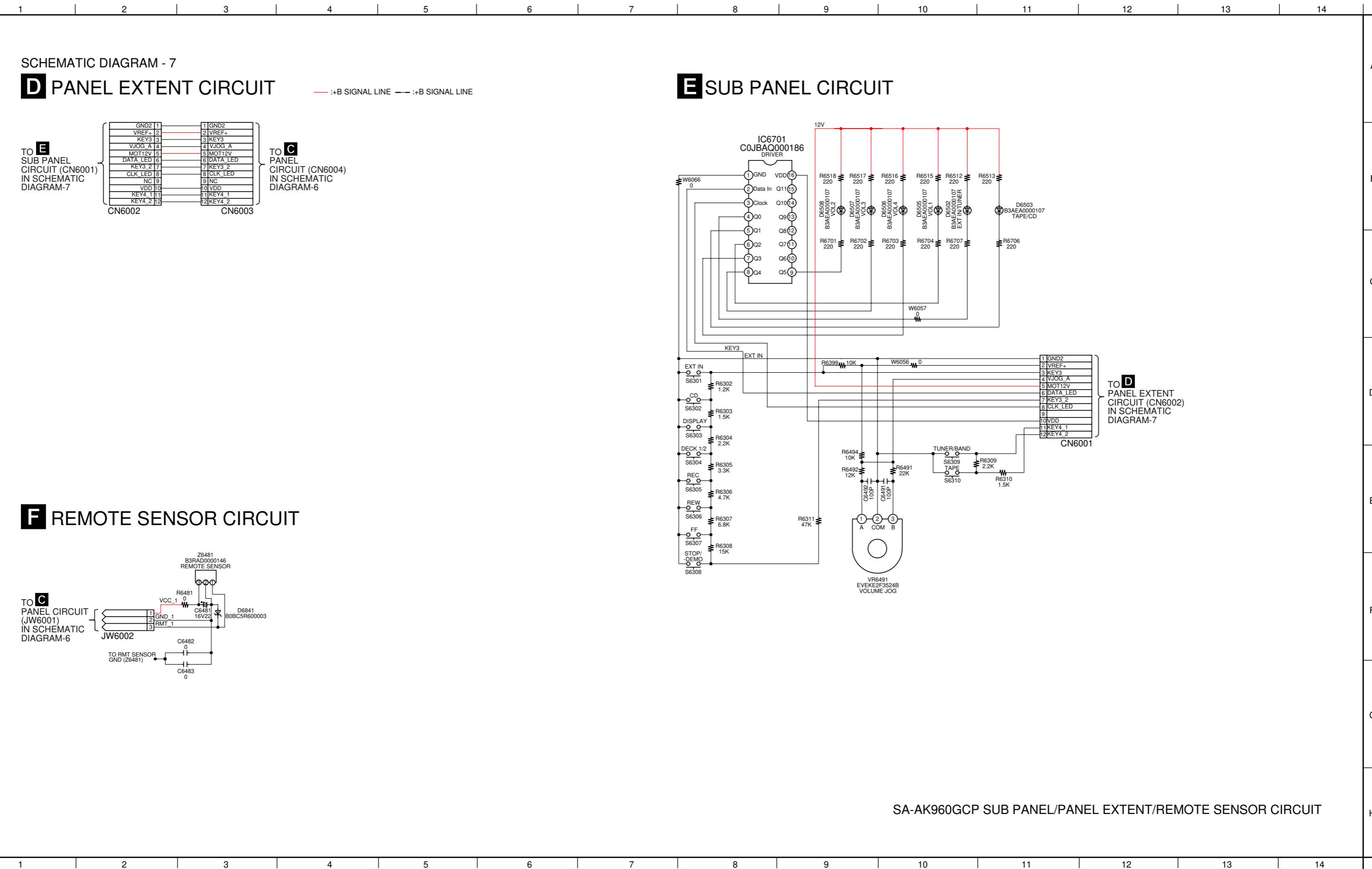
C PANEL CIRCUIT

— :+B SIGNAL LINE — :+B SIGNAL LINE ── : MAIN SIGNAL LINE ── : MIC / MUSIC PORT SIGNAL LINE



SA-AK960GCP PANEL CIRCUIT

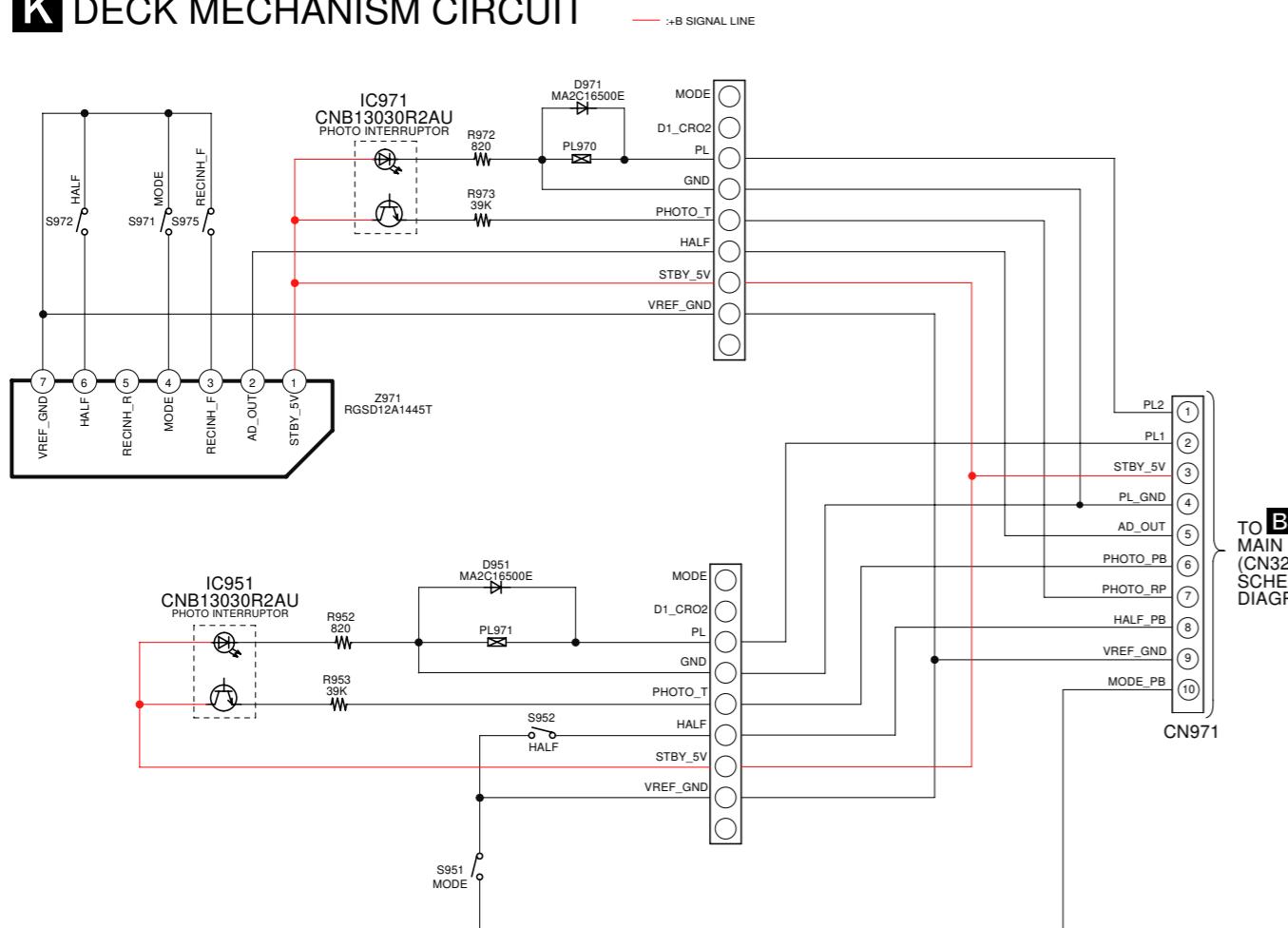
17.4. PANEL EXTENT CIRCUIT, SUB PANEL CIRCUIT & REMOTE SENSOR CIRCUIT



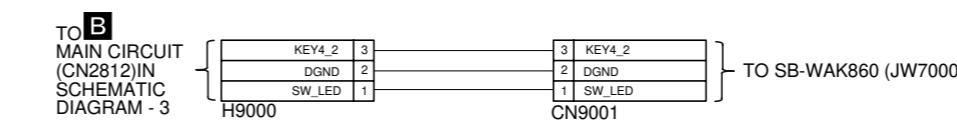
17.5. SUBWOOFER INTERFACE CIRCUIT & DECK MECHANISM CIRCUIT

SCHEMATIC DIAGRAM - 8

K DECK MECHANISM CIRCUIT



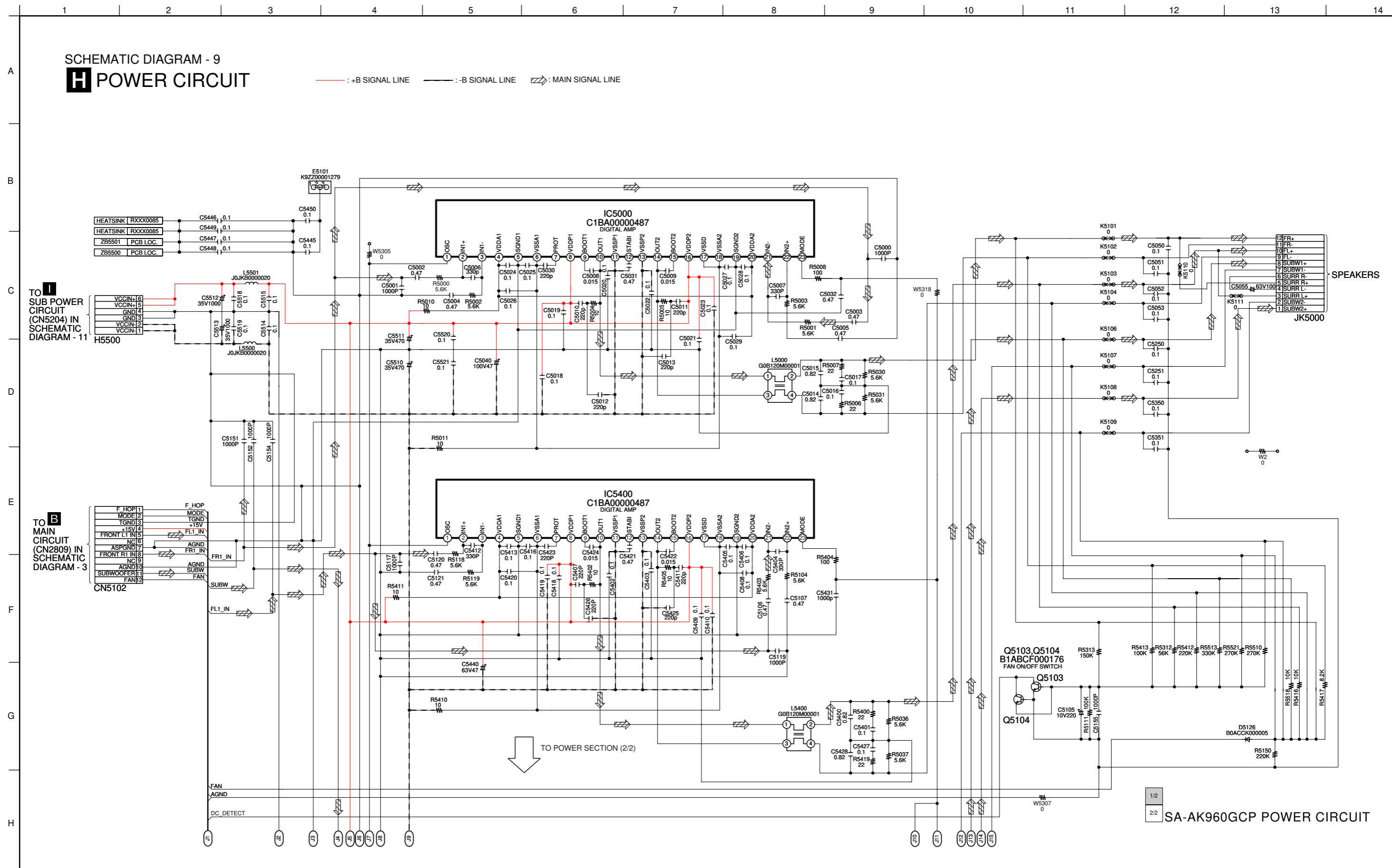
G SUBWOOFER INTERFACE CIRCUIT



TO B
MAIN CIRCUIT
(CN3201) IN
SCHEMATIC
DIAGRAM - 3

CN971

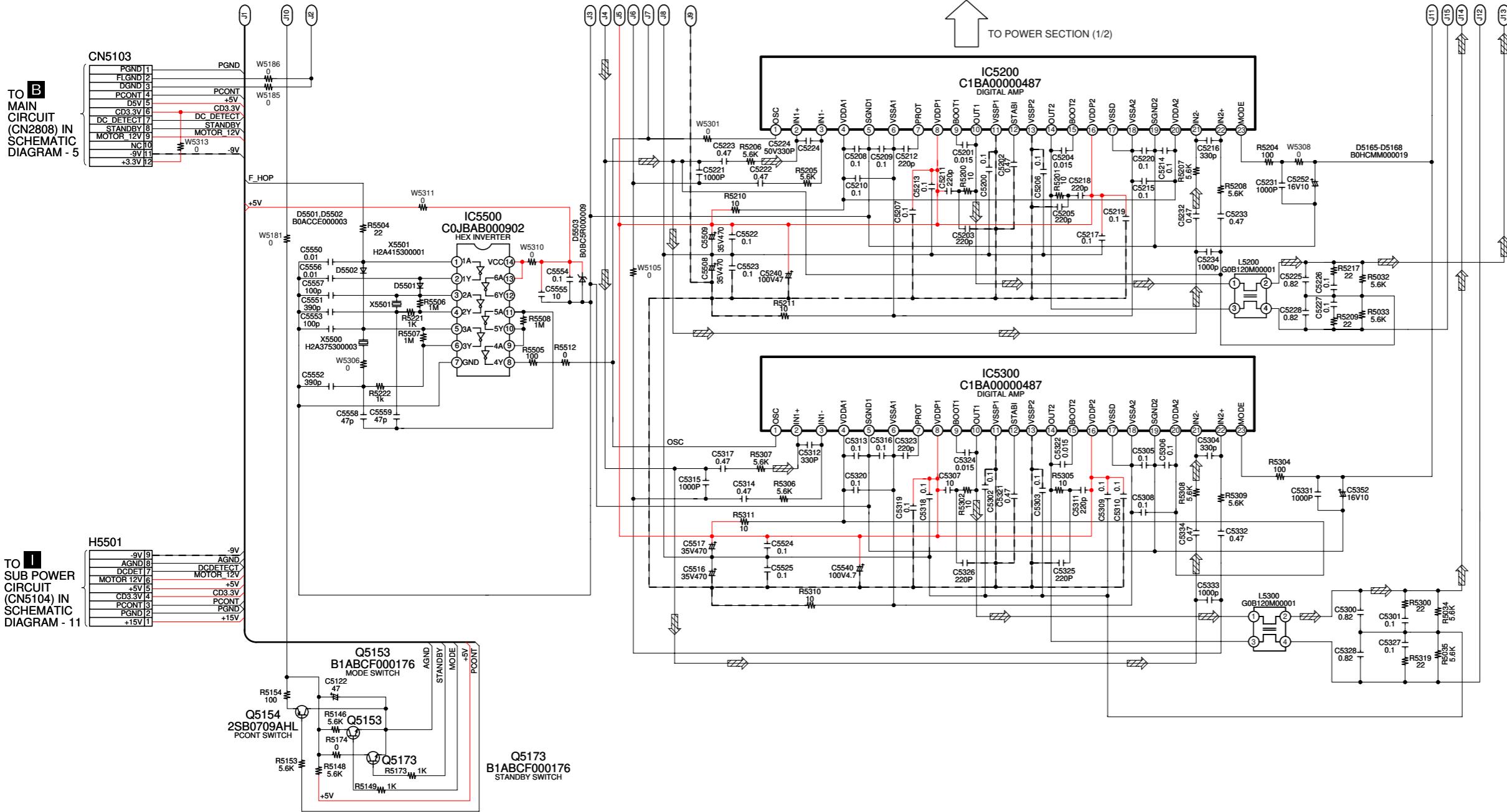
17.6. POWER CIRCUIT



SCHEMATIC DIAGRAM - 10

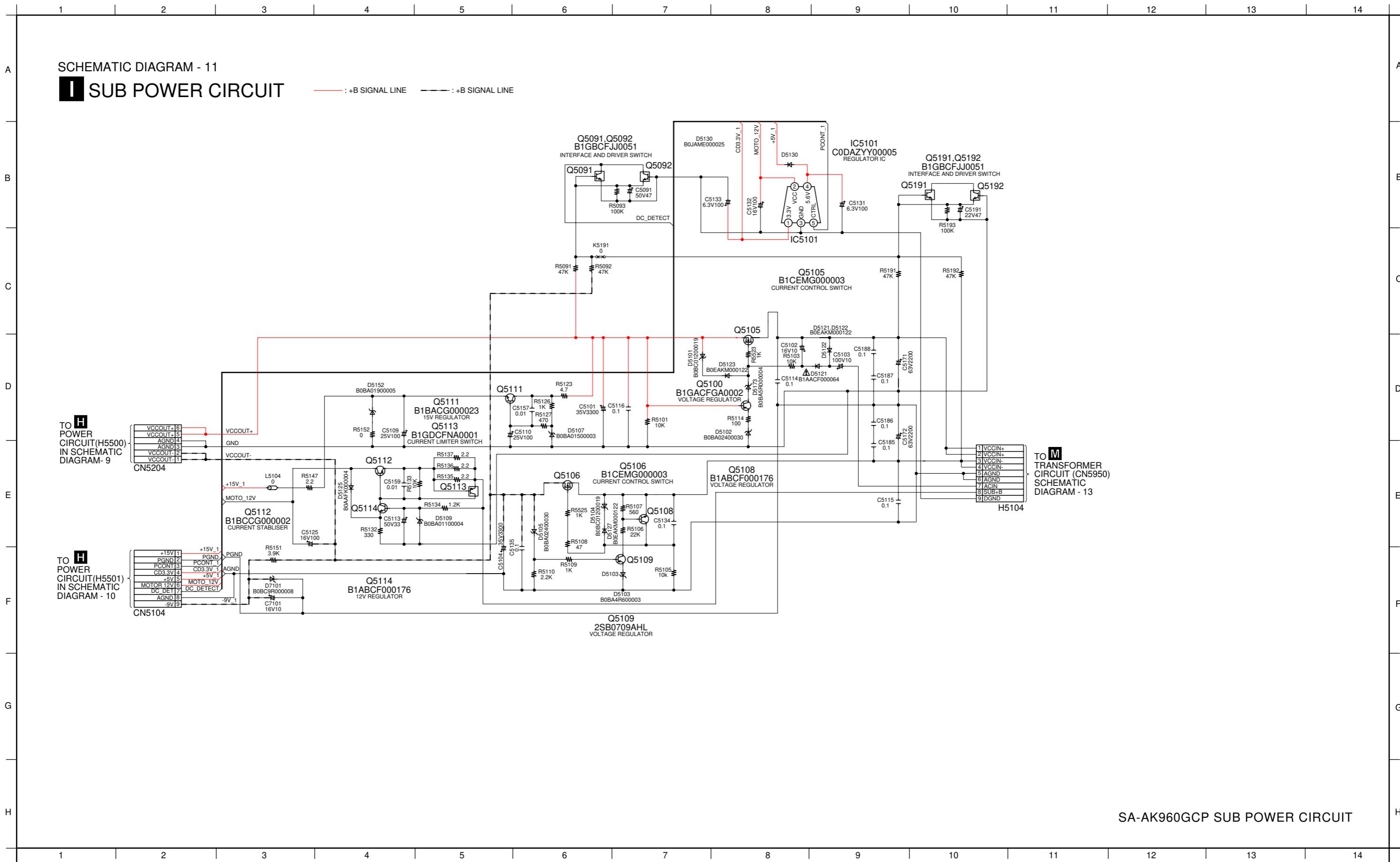
H POWER CIRCUIT

— : +B SIGNAL LINE — : -B SIGNAL LINE // : MAIN SIGNAL L



2/2 SA-AK960GCP POWER CIRCUIT

17.7. SUB POWER CIRCUIT

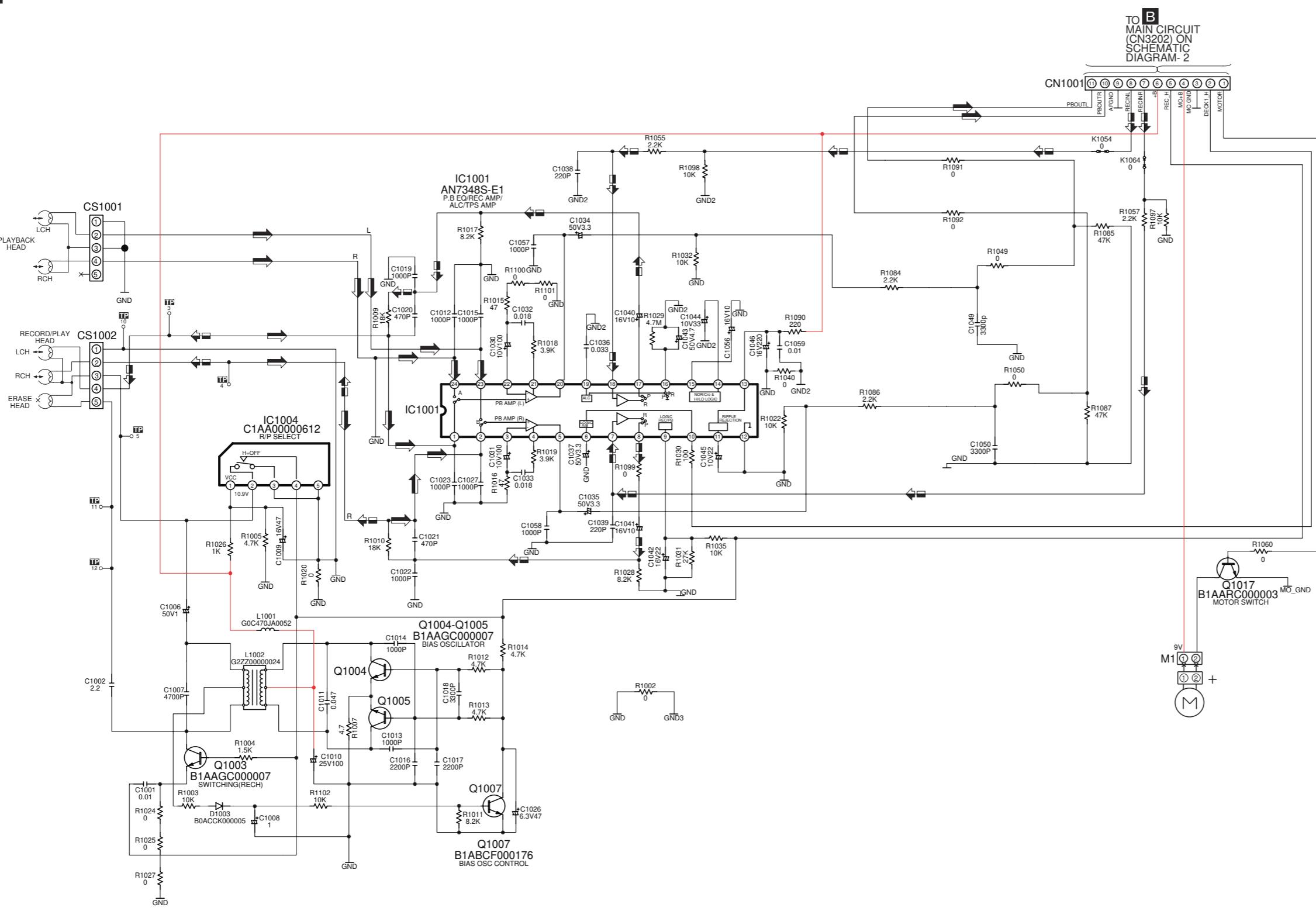


17.8. DECK CIRCUIT

SCHEMATIC DIAGRAM - 12

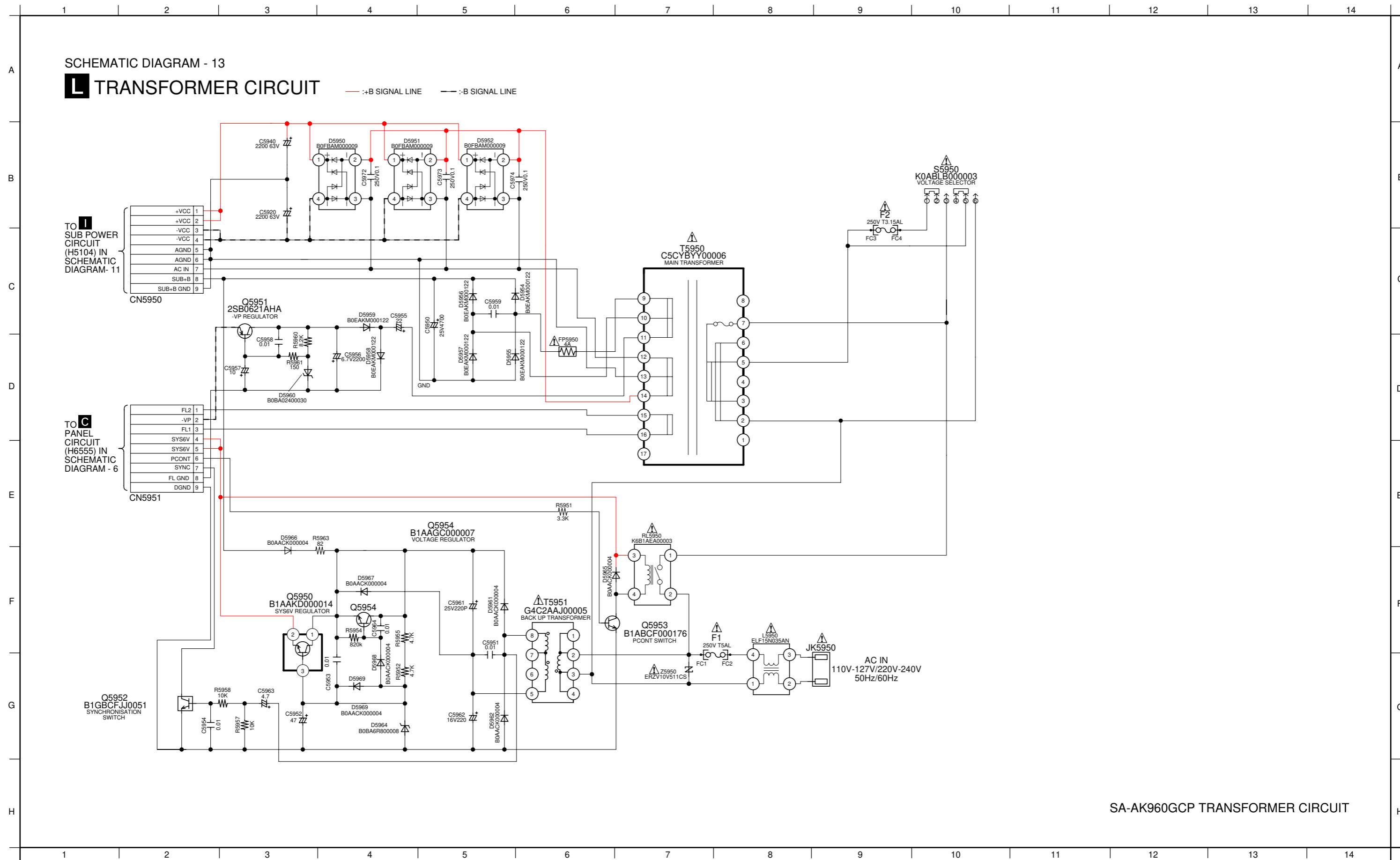
J DECK CIRCUIT

— : +B SIGNAL LINE □ : TAPE RECORD SIGNAL LINE → : TAPE PLAYBACK SIGNAL LINE



SA-AK960GCP DECK CIRCUIT

17.9. TRANSFORMER CIRCUIT



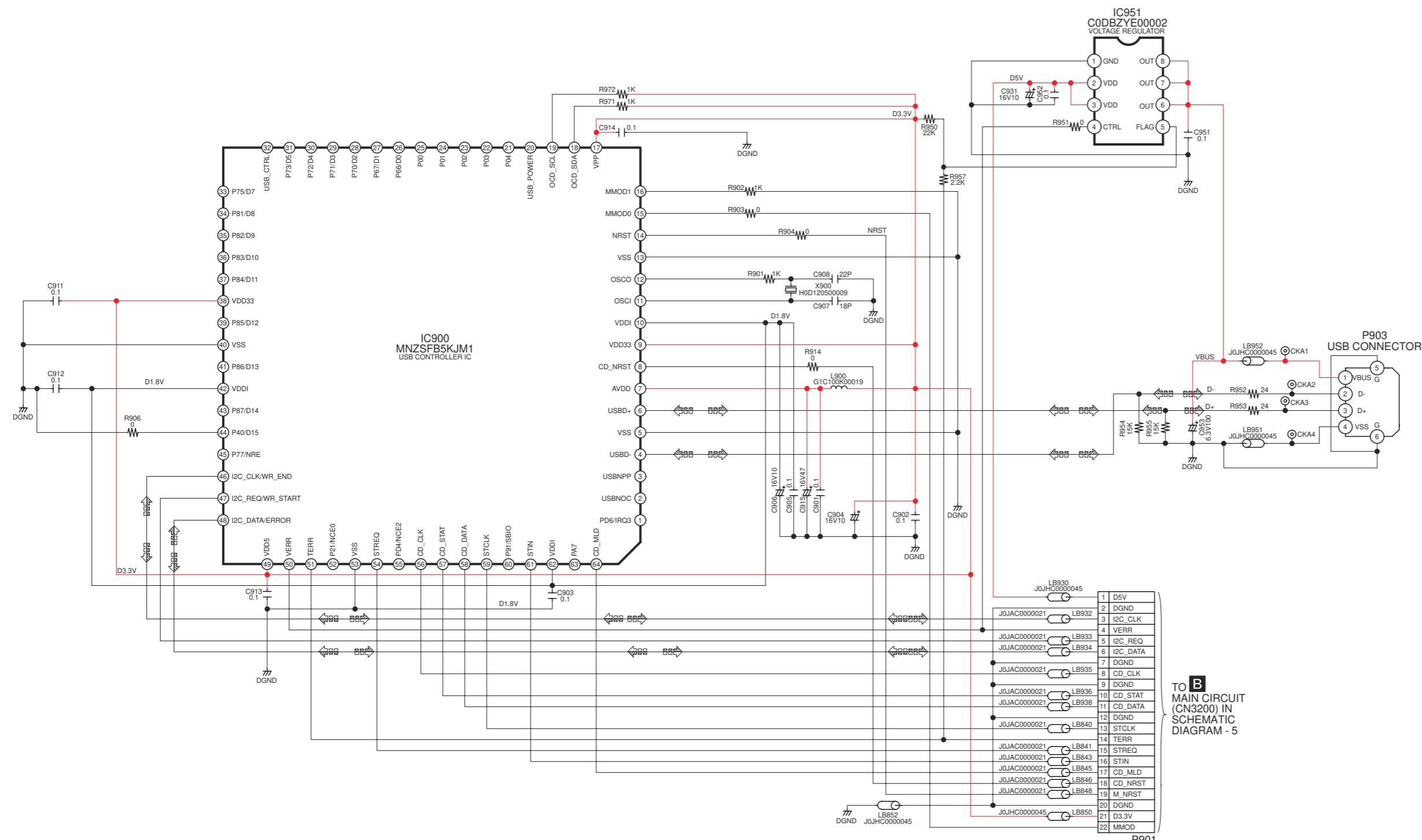
17.10. USB CIRCUIT

SCHEMATIC DIAGRAM - 14

M USB CIRCUIT

— ; + B SIGNAL

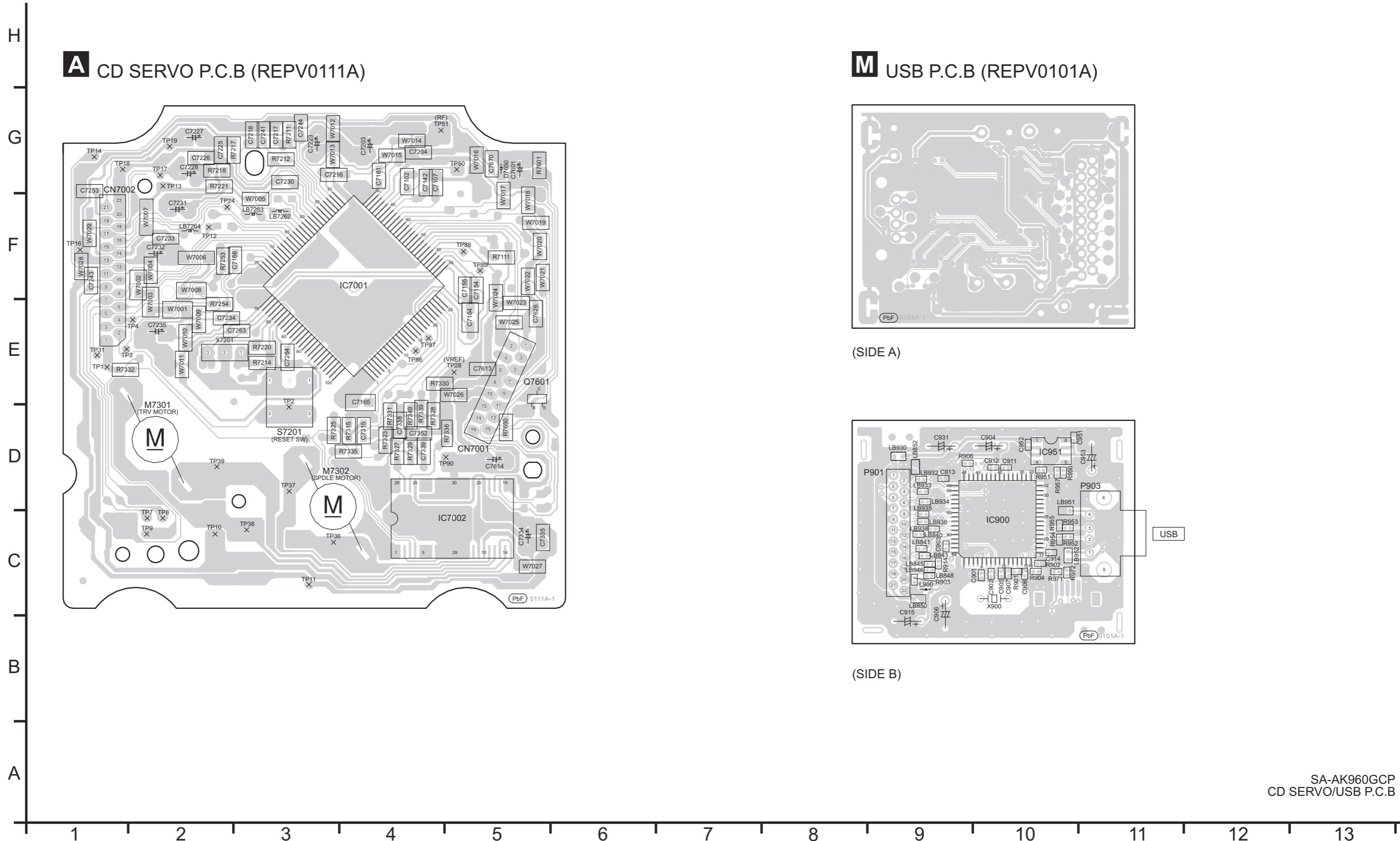
USB SIGNAL LI



SA-AK960GCP USB CIRCUIT

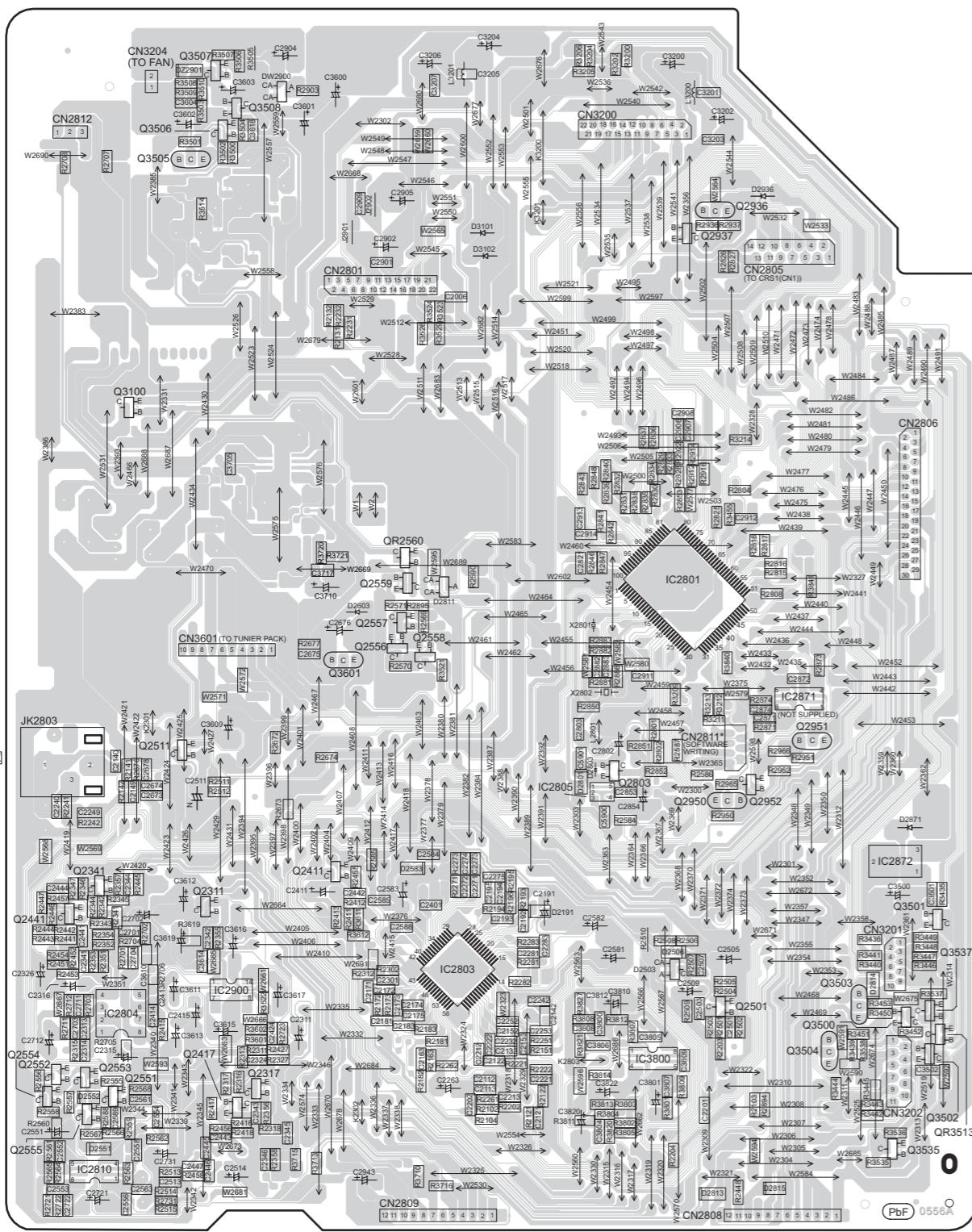
18 Printed Circuit Board

18.1. CD SERVO P.C.B & USB P.C.B



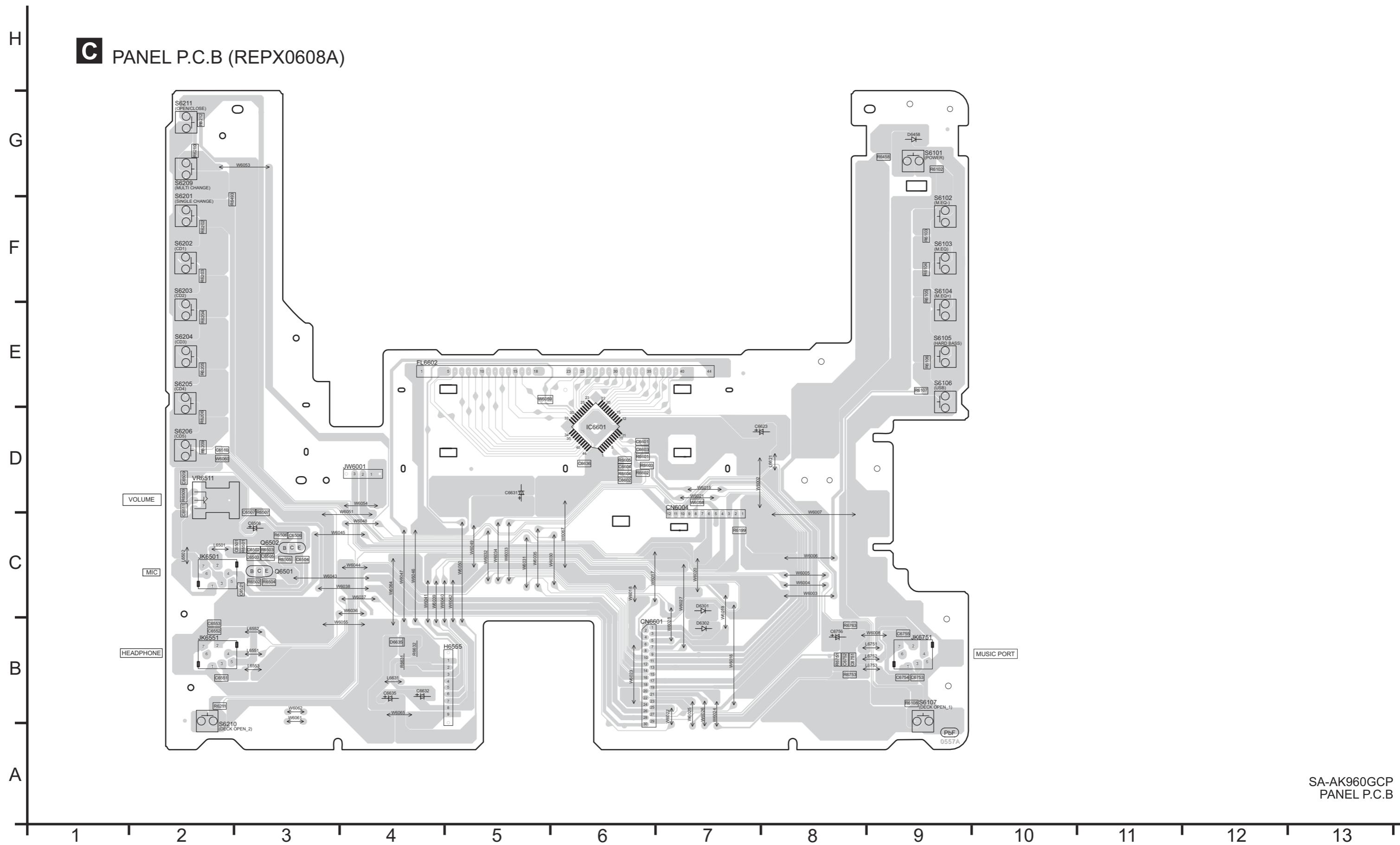
18.2. MAIN P.C.B

B MAIN P.C.B (REPX0607A)



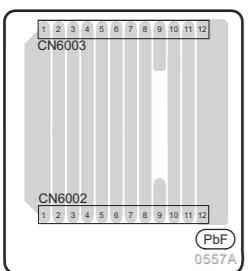
18.3. PANEL P.C.B

C PANEL P.C.B (REPX0608A)

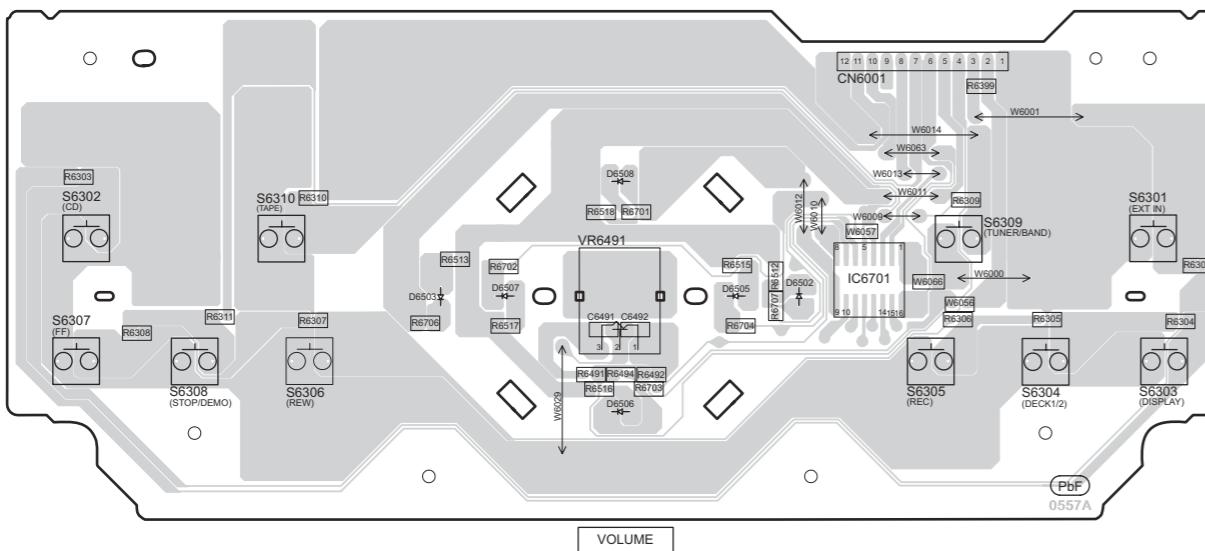


18.4. PANEL EXTENT P.C.B, SUB PANEL P.C.B, REMOTE SENSOR P.C.B & SUBWOOFER INTERFACE P.C.

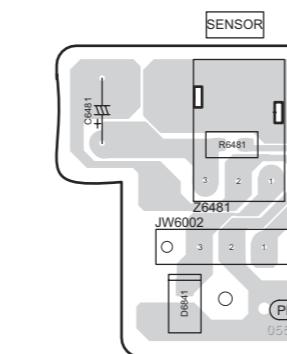
D PANEL EXTENT P.C.B (REPX0608A)



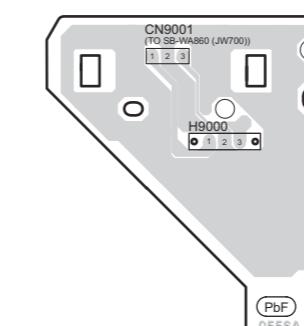
E SUB PANEL P.C.B (REPX0608A)



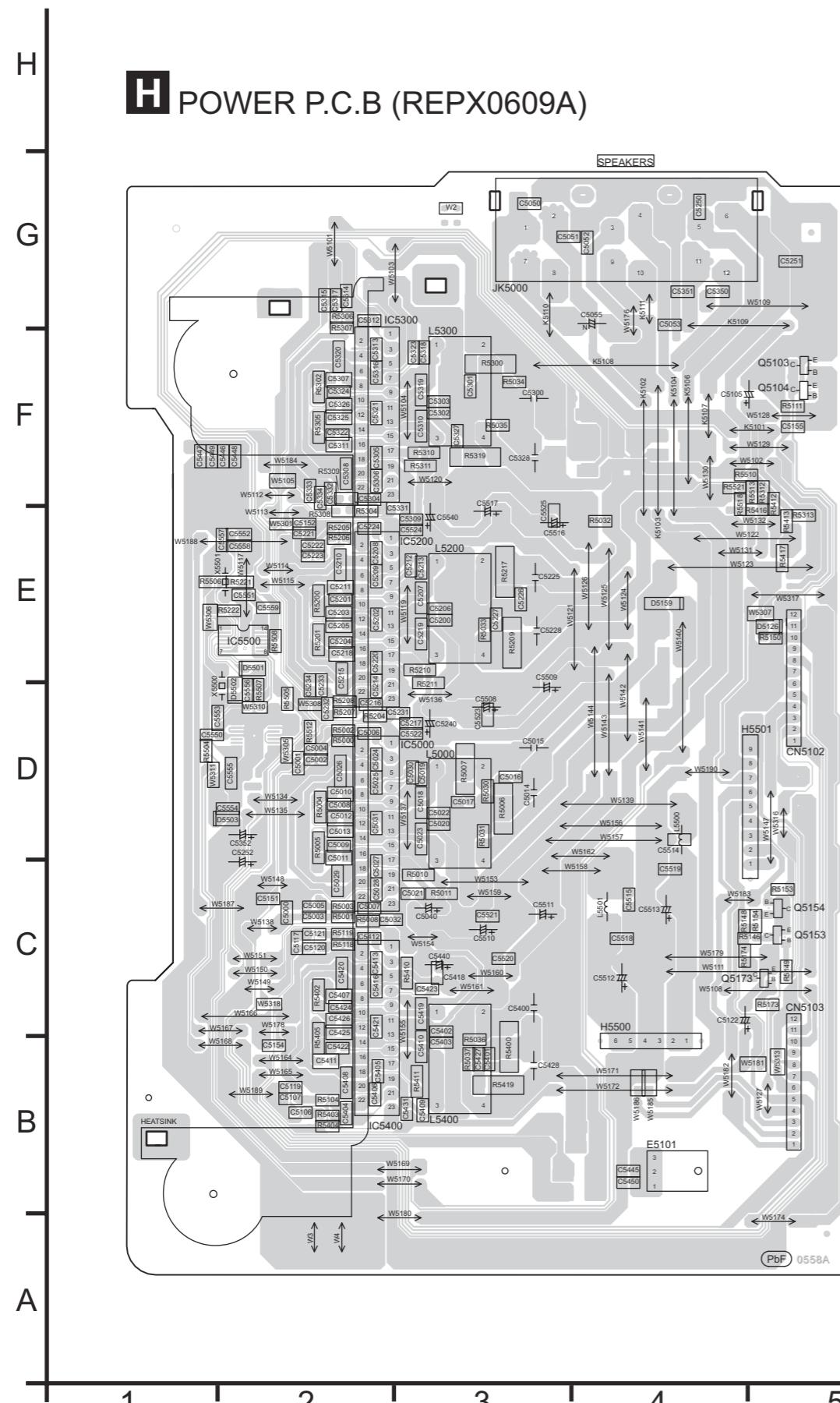
F REMOTE SENSOR P.C.B (REPX0608A)



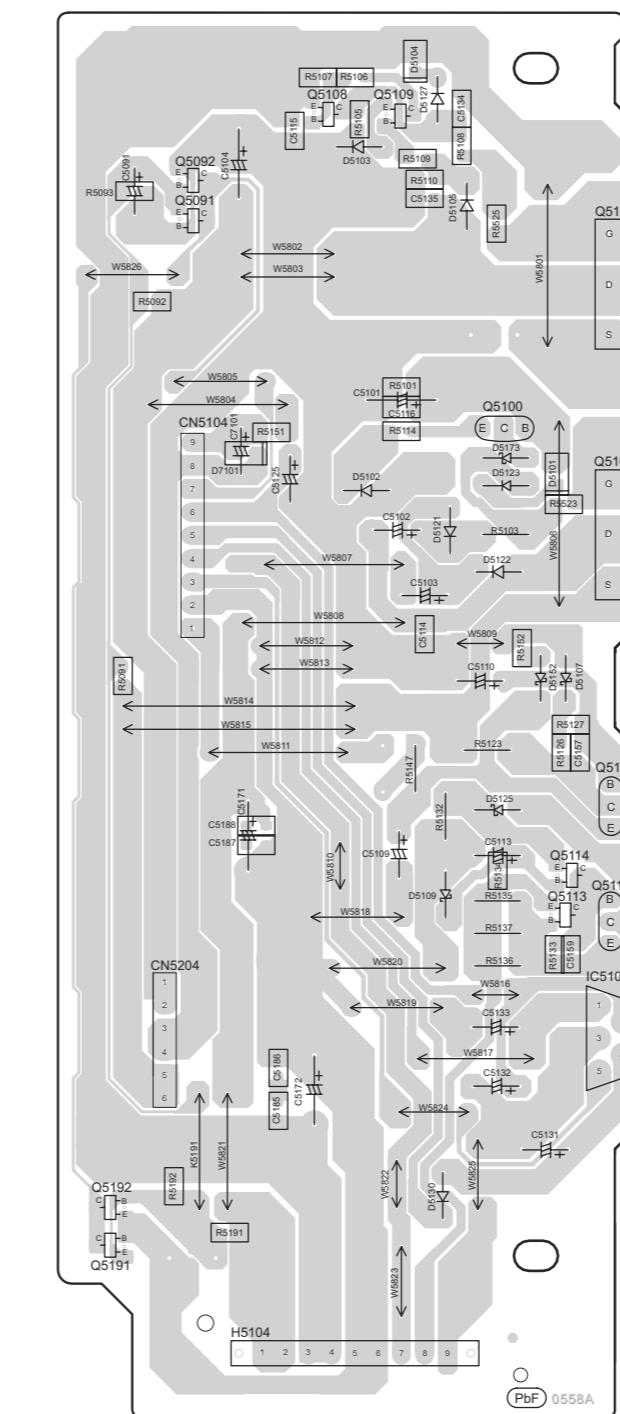
G SUBWOOFER INTERFACE P.C.B (REPX0607A)



18.5. POWER P.C.B & SUB POWER P.C.B

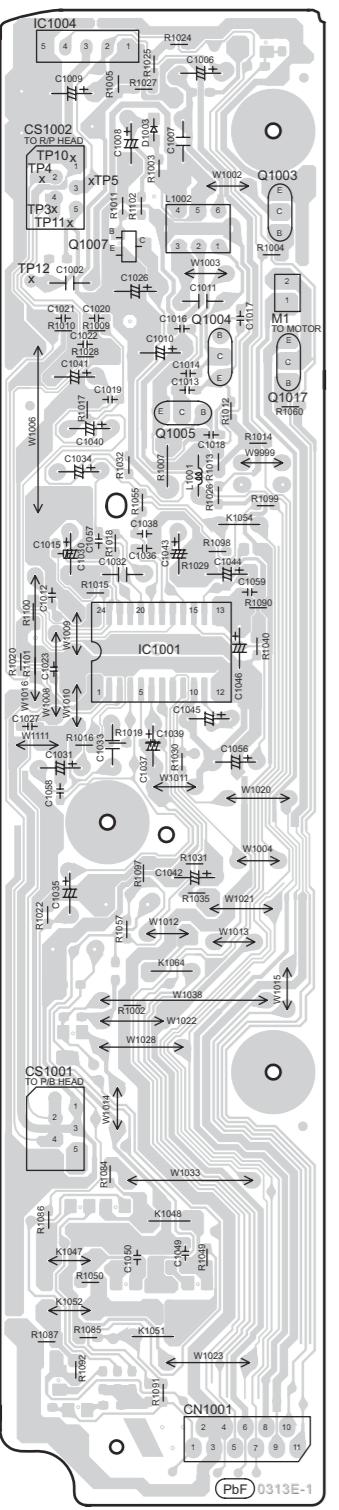


I SUB POWER P.C.B (REPX0609A)

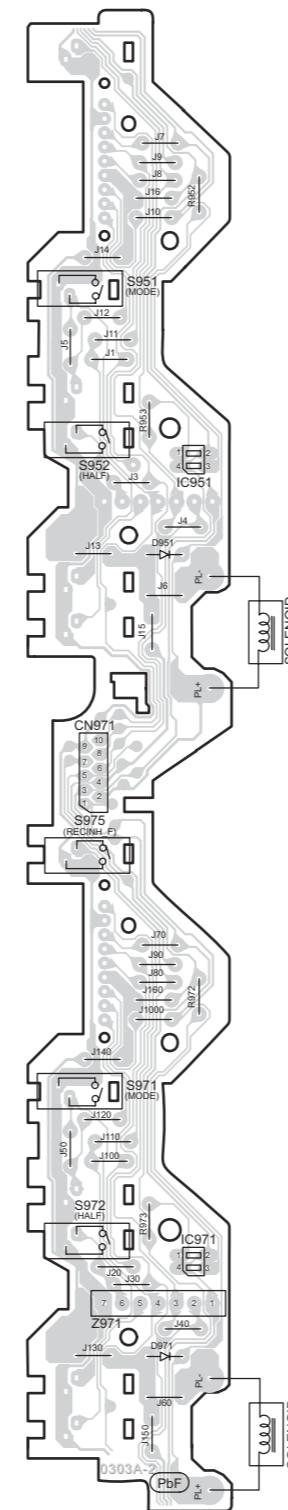


18.6. DECK P.C.B & DECK MECHANISM P.C.B

J DECK P.C.B (REPX0618A)



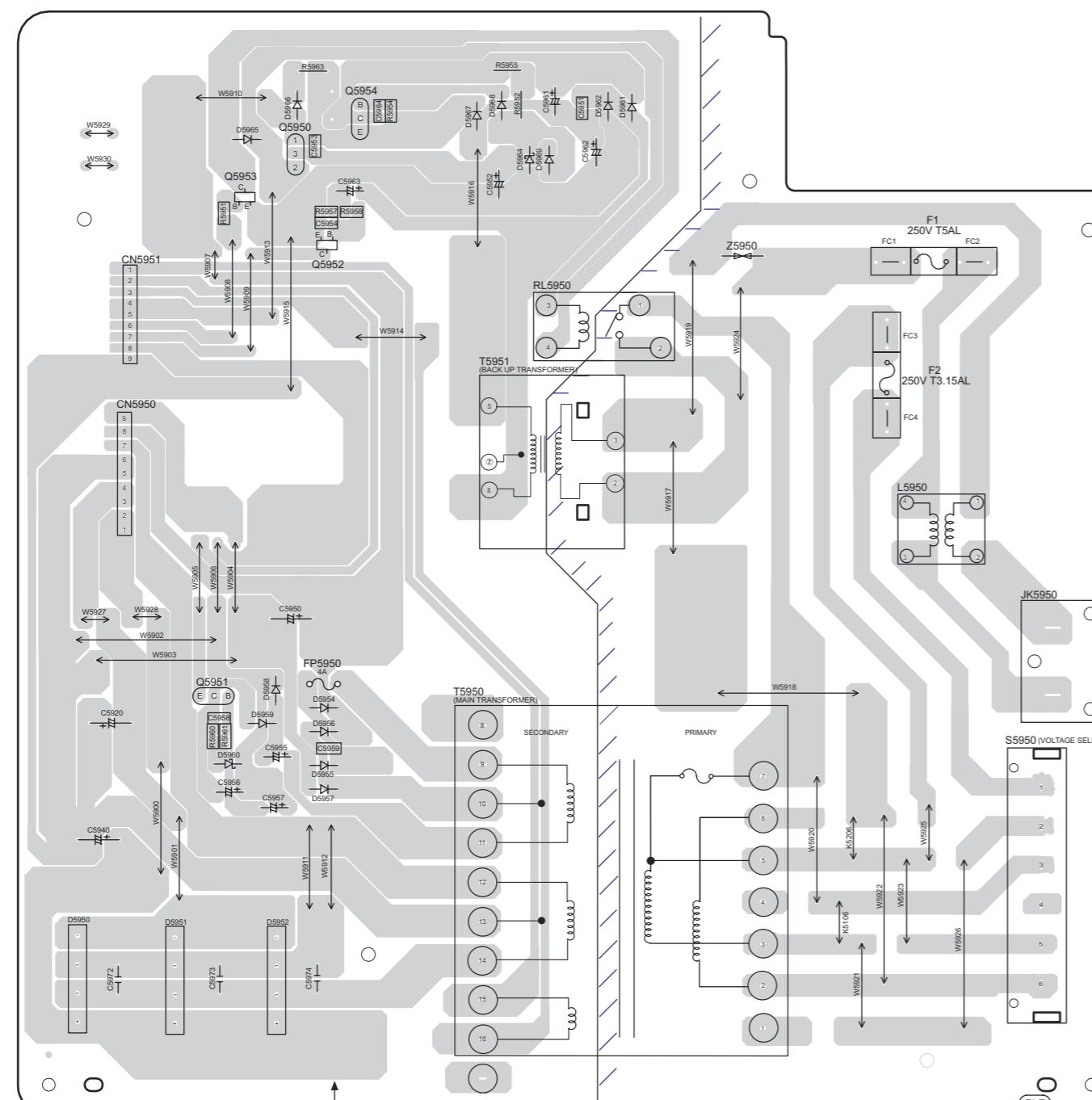
K DECK MECHANISM P.C.B (REPX321A)



18.7. TRANSFORMER P.C.B

HISTORICAL PERSPECTIVE ON THE DEVELOPMENT OF THE CONCEPT OF INTELLIGENCE

L TRANSFORMER P.C.B (REPX0610A)



AC IN ~
110V-127V/220V-240V
50/60Hz

**CAUTION
RISK OF ELECTRIC SHOCK
AC VOLTAGE LINE.
PLEASE DO NOT TOUCH THIS P.C.B.**

SA-AK960GCF
TRANSFORMER P.C.B.

19 Illustration of IC's, Transistors and Diodes

| | | | | | |
|--|------------------------------|--|--|--|------------------------------|
| AN7348S-E1 (24P) C0JBAQ000186 (16P) C1AB00002852 (14P) | BA5948FPE2 | C0AABB000125 | C0ABBB000244 (8P) C0DBZYE00002 (8P) | C0DAZYY00005 | C0DBCYY00005 |
| | | | | | |
| C1BA00000487 | C1AA00000612 | C0CBAHG00011 | C0JBAB000902 | C0GAG0000007 | C2CBYY000522 (100P) |
| | | | | | |
| C1BB00001121 (56P) C0HBB000057 (44P) MN6627954MA (100P) MNZSF5KJM1 (64P) | | CNB13030R2AU | 2SC3940A0A | B1ACKD000006 B1AARC000003 | B1BACG000023 B1BCCG000002 |
| | | | | | |
| 2SB0621AHA | B1AACF000064 B1AAGC000007 | B1ABCF000176 B1GBCFJJ0051 B1GBCFLL0037 B1GDCFJJ0047 B1ADCE000012 | | B1ABGC000005 2SB0709AHL B1ADCF000001 B1GACFGA0002 B1GDCFNA0001 | |
| | | | | | |
| B1AAKD000014 | B1CEMG000003 | B0ADCJ000020 | B0AACK000004 B0AAFK000004 MA2C16500E | B3AAA0000803 | B3AEA0000107 |
| | | | | | |
| B0FBAM000009 | MAZ80560ML | B0ADCC000002 | B0EAKM000117 B0EAKM000122 B0JAME000025 | B0BC5R000009 B0BC5R600003 B0BC9R000008 B0BC9R1A0218 B0BC2R4A0006 | |
| | | | | | |
| B0BA01100004 B0BA01500003 B0BA01900005 B0BA02400030 B0BA5R000004 B0BA6R800008 B0BA4R600003 | | B0ACCE000003 B0ACCK000005 B0BC01200019 | | | |
| | | | | | |

20 Terminal Function of IC's

20.1. IC7001 (MN6627954MA) IC SERVO PROCESSOR/DIGITAL SIGNAL PROCESSOR/DIGITAL FILTER D/A CONVERTER

| Pin No. | Mark | I/O | Function |
|---------|-----------|-----|--|
| 1 | A11 | O | DRAM address signal O/P 11 |
| 2 | A9 | O | DRAM address signal O/P 9 |
| 3 | A8 | O | DRAM address signal O/P 8 |
| 4 | A7 | O | DRAM address signal O/P 7 |
| 5 | A6 | O | DRAM address signal O/P 6 |
| 6 | A5 | O | DRAM address signal O/P 5 |
| 7 | A4 | O | DRAM address signal O/P 4 |
| 8 | NWE | O | Write Enable Signal (DRAM) |
| 9 | NCAS | O | DRAM CAS Control Signal |
| 10 | NRAS | O | DRAM ARS Control Signal |
| 11 | A3 | O | DRAM address Signal O/P 3 |
| 12 | A2 | O | DRAM address Signal O/P 2 |
| 13 | A1 | O | DRAM address Signal O/P 1 |
| 14 | A0 | O | DRAM address Signal O/P 0 |
| 15 | A10 | O | DRAM address Signal O/P 10 |
| 16 | BA0 | - | Motor O/P (0);/Serial I/P |
| 17 | BA1 | - | Motor O/P (1);/Serial I/P |
| 18 | PRAMVSS33 | - | GND (DRAM) |
| 19 | PRAMVDD15 | - | Power Supply Voltage (DRAM) |
| 20 | PRAMVDD33 | - | Power Supply Voltage (+1.6V) |
| 21 | SPOUT | O | Spindle Drive O/P |
| 22 | PC | I/O | Spindle motor drive O/P signal serial data/Monitoring I/P |
| 23 | TRVP | O | Traverse Drive O/P (+ve) |
| 24 | TRP | O | Tracking Drive O/P (+ve) |
| 25 | FOP | O | Focusing Drive O/P (+ve) |
| 26 | DVSS1 | - | GND |
| 27 | IOVDD2 | - | Digital Power Supply Voltage 2 |
| 28 | DVDD1 | - | Digital Power Supply Voltage 1 (Built-In) |
| 29 | SRVMON0 | - | Servo Monitor (0) O/P |
| 30 | SRVMON1 | - | Servo Monitor (1) O/P |
| 31 | AVSS2 | - | GND |
| 32 | OSCIN | - | Oscillating Input |
| 33 | CTRCRS | - | Tracking Cross Comparator |
| 34 | VREF | - | +Vref Supply Voltage |
| 35 | E | I | Tracking Input Signal 1 |
| 36 | F | I | Tracking Input Signal 2 |
| 37 | D | I | Focusing Input Signal 4 |
| 38 | B | I | Focusing Input Signal 2 |
| 39 | C | I | Focusing Input Signal 3 |
| 40 | A | I | Focusing Input Signal 1 |
| 41 | PD | I | APC Amp I/P |
| 42 | LD | O | Laser Drive Current O/P |
| 43 | CENV | - | Detection Capacitance Connection terminal |
| 44 | RFENV | O | RF Envelope O/P |
| 45 | RFOUT | O | RF Summing Amp O/P |
| 46 | RFIN | I | SGC I/P |
| 47 | AVDD2 | - | Analog Power Supply voltage 2 (For DSL/PLL) |
| 48 | ARFDC | - | AGC Capacitive Connection Terminal |
| 49 | ARFOUT | O | AGC Output |
| 50 | ARFFB | I | ARF Feedback Signal I/P |
| 51 | ARFIN | I | Audio RF Signal I/P |
| 52 | DSLFB | - | Loop Filter Terminal (For DSL) |
| 53 | IREF | I | Reference I/P |
| 54 | PLLF | I | PLL Loop Filter Terminal (Phase Compare) |
| 55 | PLLF0 | O | PLL Loop Filter Terminal (Speed Compare) |

| Pin No. | Mark | I/O | Function |
|---------|-----------|-----|---|
| 56 | OUTL | O | Audio O/P (LCH) |
| 57 | AVSS1 | - | GND |
| 58 | AVDD1 | - | Analog Power Supply Voltage 1 |
| 59 | OUTR | O | Audio O/P (RCH) |
| 60 | DVSS3 | - | GND3 (Digital Circuit) |
| 61 | NSRVMONON | I | Servo Motor O/P Enabling |
| 62 | EXT0 | - | Expansion O/P Port 0 |
| 63 | EXT1 | - | Expansion O/P Port 1 |
| 64 | EXT2 | - | Expansion O/P Port 2 |
| 65 | FLAG | - | Flag Signal O/P |
| 66 | TX | - | Digital Audio Interface O/P signal |
| 67 | MCLK | I | Micro-Computer Command Clock I/P |
| 68 | MDATA | I | Micro-Computer Data I/P |
| 69 | MLD | I | Micro-Computer Load I/P |
| 70 | STAT | O | Status Signal O/P |
| 71 | BLKCK | O | Subcode Blk Clock |
| 72 | NRST | O | LSI Reset Signal |
| 73 | DQSYTXT | - | Pack Signal O/P for CD-Text data |
| 74 | SMCK | - | Micro-Computer Clock O/P |
| 75 | PMCK | - | IOCNT Serial data O/P (Synchronous O/P) |
| 76 | DVDD2 | - | Digital Power Supply Voltage 2 (+1.5V) |
| 77 | IOVDD1 | - | Digital Power Supply Voltage 1 (For I/O) |
| 78 | DVSS2 | - | GND2 (For Digital Circuit) |
| 79 | REGION | - | Test Mode Setting (ON:H) |
| 80 | X2 | O | Crystal Oscillating Circuit O/P |
| 81 | X1 | I | Crystal Oscillating Circuit I/P |
| 82 | NTEST | I | Test Mode Setting I/P (ON:H) |
| 83 | D2 | O | Data Signal O/P 2 |
| 84 | D1 | O | Data Signal O/P 1 |
| 85 | D0 | O | Data Signal O/P 0 |
| 86 | D3 | O | Data Signal O/P 3 |
| 87 | D4 | O | Data Signal O/P 4 |
| 88 | D5 | O | Data Signal O/P 5 |
| 89 | D6 | O | Data Signal O/P 6 |
| 90 | D7 | O | Data Signal O/P 7 |
| 91 | D15 | O | Data Signal O/P 15 |
| 92 | D14 | O | Data Signal O/P 14 |
| 93 | DRVDD | - | I/O Power Supply Voltage (DRAM) |
| 94 | D13 | O | Data Signal O/P 13 |
| 95 | D12 | O | Data Signal O/P 12 |
| 96 | D11 | O | Data Signal O/P 11 |
| 97 | D10 | O | Data Signal O/P 10 |
| 98 | D9 | O | Data Signal O/P 9 |
| 99 | D8 | O | Data Signal O/P 8 |
| 100 | SDRCK | O | Clock Signal O/P |

20.2. IC7002 (BA5948FPE2) IC 4CH Drive

| Pin No. | Mark | I/O | Function |
|---------|-------|-----|---|
| 1 | IN2 | I | Motor Driver Input |
| 2 | PC2 | I | Turntable Motor Drive Signal ("L":ON) |
| 3 | IN1 | I | Motor Drive (1) Input |
| 4 | PC1 | - | Traverse Motor Drive Signal ("L"): ON) |
| 5-8 | N.C. | - | No Connection |
| 9 | PGND1 | - | Ground Connection (1) for Drive |
| 10 | PVCC1 | - | Power Supply (1) for Drive |
| 11 | D1- | O | Motor Drive (1) reverse - action output |
| 12 | D1+ | O | Motor Drive (1) forward - action output |
| 13 | D2- | O | Motor Drive (2) reverse - action output |
| 14 | D2+ | O | Motor Drive (2) forward - action output |

| Pin No. | Mark | I/O | Function |
|---------|-------|-----|---|
| 15 | D3- | O | Motor Drive (3) reverse - action output |
| 16 | D3+ | O | Motor Drive (3) forward - action output |
| 17 | D4- | O | Motor Drive (4) reverse - action output |
| 18 | D4+ | O | Motor Drive (4) forward - action output |
| 19 | PVCC2 | - | Power Supply (2) for Driver |
| 20 | PGND2 | - | Ground Connection (2) for Driver |
| 21-24 | N.C. | - | No Connection |
| 25 | VCC | - | Power Supply terminal |
| 26 | VREF | - | Reference Voltage Input |
| 27 | IN4 | I | Motor Driver (4) Input |
| 28 | IN3 | I | Motor Driver (3) Input |

20.3. IC2801 (C2CBYY000522) System Microprocessor

| Pin No. | Mark | I/O | Function |
|---------|-----------------|-----|--|
| 1 | LM_1 | I/O | Level Meter 1 |
| 2 | N.C. | - | No connection |
| 3 | LED_SWFR | O | Subwoofer LED Drive |
| 4 | N.C. | - | No connection |
| 5 | N.C. | - | No connection |
| 6 | N.C. | - | No connection |
| 7 | F_HOP | O | Frequency Hopping |
| 8 | BYTE | - | External Data Bus Width Select Input (Connect to Ground) |
| 9 | CNVSS/EFP_CNVSS | - | Flash Mode Terminal |
| 10 | Xcin | - | 32.768 kHz Sub Clock |
| 11 | Xcout | - | 32.768 kHz Sub Clock |
| 12 | /RESET | - | /RESET Input (ACTIVE L) |
| 13 | Xout | - | 10 MHz Main Clock |
| 14 | Vss | - | Ground (0V) |
| 15 | Xin | - | 10 MHz Main Clock |
| 16 | Vcc | - | Power Supply (+5V) |
| 17 | /NMI | - | Connect to Vcc (+5V) |
| 18 | RMT | I | Remote Control Input |
| 19 | BLKCK | I | CD Block Clock Input (Inverted) |
| 20 | SYNC | I | AC Failure Detect Input |
| 21 | DO | O | Serial Output Data |
| 22 | DI | I | Serial Input Data |
| 23 | SUBWOOFER SCS | I | Subwoofer Chip Select |
| 24 | SW_LVL1 | - | No connection |
| 25 | SW_LVL2 | - | No connection |
| 26 | ASP DAT | O | ASP Data |
| 27 | ASP_CLK | O | ASP Clock |
| 28 | FL_CS | I | FL Chip Select |
| 29 | N.C. | - | No connection |
| 30 | PLL_CLK | I | Tuner PLL Clock |
| 31 | USB_SDA (TxD) | I/O | USB Serial Data |
| 32 | USB_SCL (RxD) | I/O | USB Serial Clock |
| 33 | USB_RST | O | USB Reset |
| 34 | XM_MUTE (BUSY) | - | Flash busy flag for pn board writer |
| 35 | V_E | - | Verify error |
| 36 | N.C. | - | No connection |
| 37 | N.C. | - | No connection |
| 38 | TE | - | Time out error for USB version up using CD |
| 39 | MUTE_DA | O | D-Amp Muting Control |
| 40 | MUTE_A | O | Audio Muting Control |

| Pin No. | Mark | I/O | Function |
|---------|---------------|-----|---|
| 41 | EE_CS/EFP/EPM | O | EEPROM Chip Select (Flash EPM for On board writer) |
| 42 | EE_CLK | O | EEPROM CLOCK |
| 43 | EE_DAT | I/O | EEPROM DATA |
| 44 | N.C. | - | No connection |
| 45 | N.C. | - | No connection |
| 46 | PCONT/EFP/CS | O | Power Control Output |
| 47 | DCDET | I | DC Detect Input |
| 48 | MUTE_WLESS | O | Wireless Muting Control |
| 49 | N.C. | - | No connection |
| 50 | STANDBY | O | For Digital AMP 5->0v during FHOP |
| 51 | LED_CLK | O | LED Drive |
| 52 | TUNER_CE | I | TUNER CE |
| 53 | DECK1_H | O | Deck mute at mecha transition. L=mute OFF, H=mute ON |
| 54 | BOTTOM_SW | I | Bottom switch for CRS1 |
| 55 | UD_SENSOR | I | Up/Down sensor for CRS1 |
| 56 | PLG1 | O | Plunger Control O/P |
| 57 | PLG2 | O | Plunger Control O/P |
| 58 | MTR | I/O | Deck motor control ("L" for motor OFF) |
| 59 | REC | I/O | H when record circuit is operating |
| 60 | MMOD | I | Micon Mode Switching for USB Version Up using CD |
| 61 | MODE_1 | I | Mode select |
| 62 | VCC | - | Power Supply (+5V) |
| 63 | LED_DATA | O | LED Drive |
| 64 | Vss | - | Ground (0V) |
| 65 | SOUND_CS | - | Sound chip select HALF_1 |
| 66 | HALF_1 | - | Deck 1 half control |
| 67 | N.C. | - | No connection |
| 68 | N.C. | - | No connection |
| 69 | N.C. | - | No connection |
| 70 | FL_CS | O | FL Driver Chip Select |
| 71 | FL_DOUT | O | Serial Data To FL Driver |
| 72 | FL_CLK | O | Serial Clock To FL Driver |
| 73 | N.C. | - | No connection |
| 74 | USB_IRQ | I | USB Request. |
| 75 | STATUS | I | CD Servo LSI Status Input |
| 76 | MLD | I/O | CD Command Load Output |
| 77 | MDATA_OUT | I/O | CD Command Data Output |
| 78 | MCLK | I/O | CD Command Clock Output |

| Pin No. | Mark | I/O | Function |
|---------|-----------|-----|---|
| 79 | /RESET_SW | I | CD Limit Switch Input for the most Inner Point (Active Low) |
| 80 | HOME_SW | I | Home Switch for CRS1 |
| 81 | CD_RST | I/O | CD Reset output |
| 82 | CLOSE_SW | I | CLOSE switch for CRS1 |
| 83 | OPEN_SW | I | Open switch for CRS1 |
| 84 | CW | O | CRS1 motor CW |
| 85 | CCW | O | CRS1 motor CCW |
| 86 | ST_SW | I | Stock switch for CRS1 |
| 87 | PLAY_SW | I | Play switch for CRS1 |
| 88 | PLUNGER | O | Plunger for CRS1 |
| 89 | PHOTO2 | I | Deck AD Input 2 |

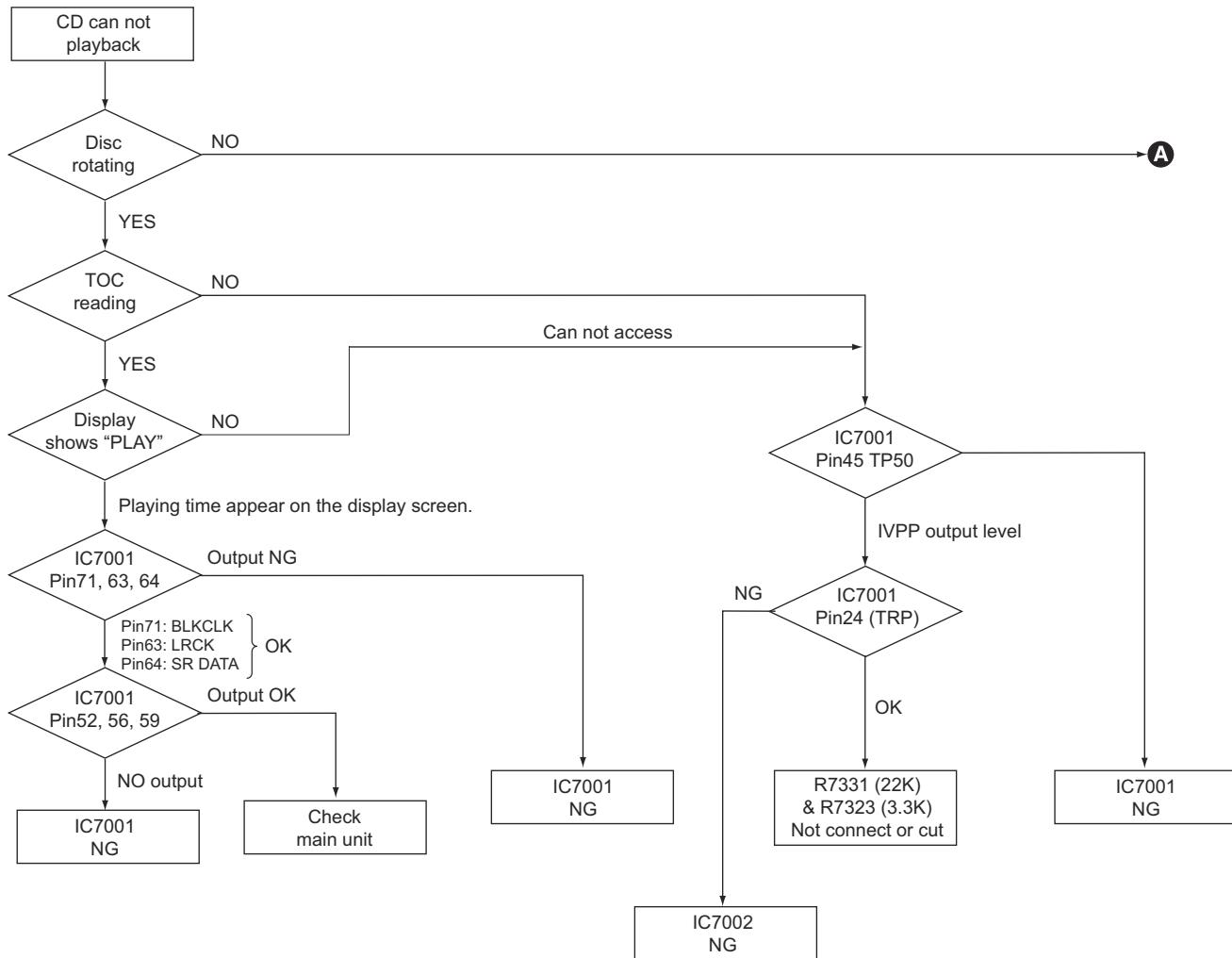
| Pin No. | Mark | I/O | Function |
|---------|----------|-----|--|
| 90 | VOL_JOG | I | Volume jog |
| 91 | KEY4 | I | Key 4 Input |
| 92 | KEY3 | I | Key 3 Input |
| 93 | KEY2 | I | Key 2 Input |
| 94 | KEY1 | I | Key 1 Input |
| 95 | PHOTO1 | I | Deck AD input 1 |
| 96 | AVSS | - | Analog Power Supply Input (Connect to GND) |
| 97 | DECK | I | Deck AD Input |
| 98 | VREF | - | Reference for A-D (5V) |
| 99 | AVCC | - | Analog Power Supply Input |
| 100 | DEMO_SET | I | (H= Default demo On, L= Default demo off) |

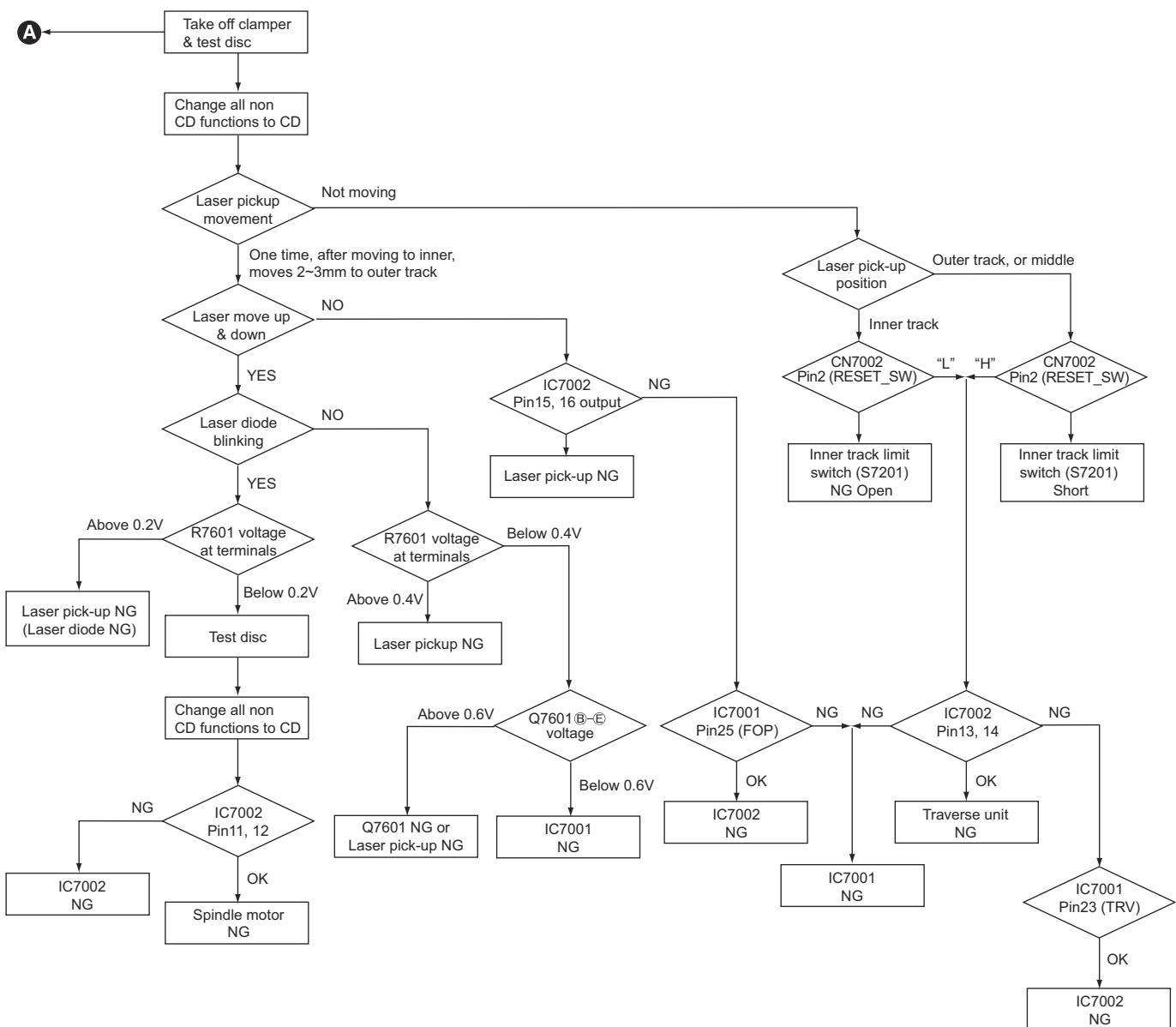
20.4. IC6601 (C0HBB0000057) FL Driver

| Pin No. | Mark | I/O | Function |
|---------|------|-----|--------------------------------------|
| 1 | P0 | - | No connection |
| 2 | P1 | - | No connection |
| 3 | P2 | - | No connection |
| 4 | P3 | - | No connection |
| 5 | OSC | I | Oscillator Input Pin |
| 6 | N.C. | - | No connection |
| 7 | DIN | I | Data Input Pin |
| 8 | CLK | I | Clock Input Pin |
| 9 | STB | I | Serial Interface Strobe Pin |
| 10 | K1 | I | Key Data Input Pin |
| 11 | K2 | I | Key Data Input Pin |
| 12 | VSS | - | Logic Ground Pin |
| 13 | VDD | - | Logic Power Supply |
| 14 | S1 | O | High-Voltage Segmant Output Pin |
| 15 | S2 | O | High-Voltage Segmant Output Pin |
| 16 | S3 | O | High-Voltage Segmant Output Pin |
| 17 | S4 | O | High-Voltage Segmant Output Pin |
| 18 | S5 | O | High-Voltage Segmant Output Pin |
| 19 | S6 | O | High-Voltage Segmant Output Pin |
| 20 | S7 | O | High-Voltage Segmant Output Pin |
| 21 | S8 | O | High-Voltage Segmant Output Pin |
| 22 | S9 | O | High-Voltage Segmant Output Pin |
| 23 | S10 | O | High-Voltage Segmant Output Pin |
| 24 | S11 | O | High-Voltage Segmant Output Pin |
| 25 | S12 | O | High-Voltage Segmant Output Pin |
| 26 | S13 | O | High-Voltage Segmant Output Pin |
| 27 | S14 | O | High-Voltage Segmant Output Pin |
| 28 | S15 | O | High-Voltage Segmant Output Pin |
| 29 | S16 | O | High-Voltage Segmant Output Pin |
| 30 | VEE | - | Pull-Down Level |
| 31 | G12 | O | High-Voltage Segmant/Grid Output Pin |
| 32 | G11 | O | High-Voltage Segmant/Grid Output Pin |
| 33 | G10 | O | High-Voltage Segmant/Grid Output Pin |
| 34 | G9 | O | High-Voltage Segmant/Grid Output Pin |

| Pin No. | Mark | I/O | Function |
|---------|------|-----|--------------------------------------|
| 35 | G8 | O | High-Voltage Segmant/Grid Output Pin |
| 36 | G7 | O | High-Voltage Segmant/Grid Output Pin |
| 37 | G6 | O | High-Voltage Segmant/Grid Output Pin |
| 38 | G5 | O | High-Voltage Segmant/Grid Output Pin |
| 39 | G4 | O | High-Voltage Grid Output Pin |
| 40 | G3 | O | High-Voltage Grid Output Pin |
| 41 | G2 | O | High-Voltage Grid Output Pin |
| 42 | G1 | O | High-Voltage Grid Output Pin |
| 43 | VDD | - | Logic Power Supply |
| 44 | VSS | - | Logic Ground Pin |

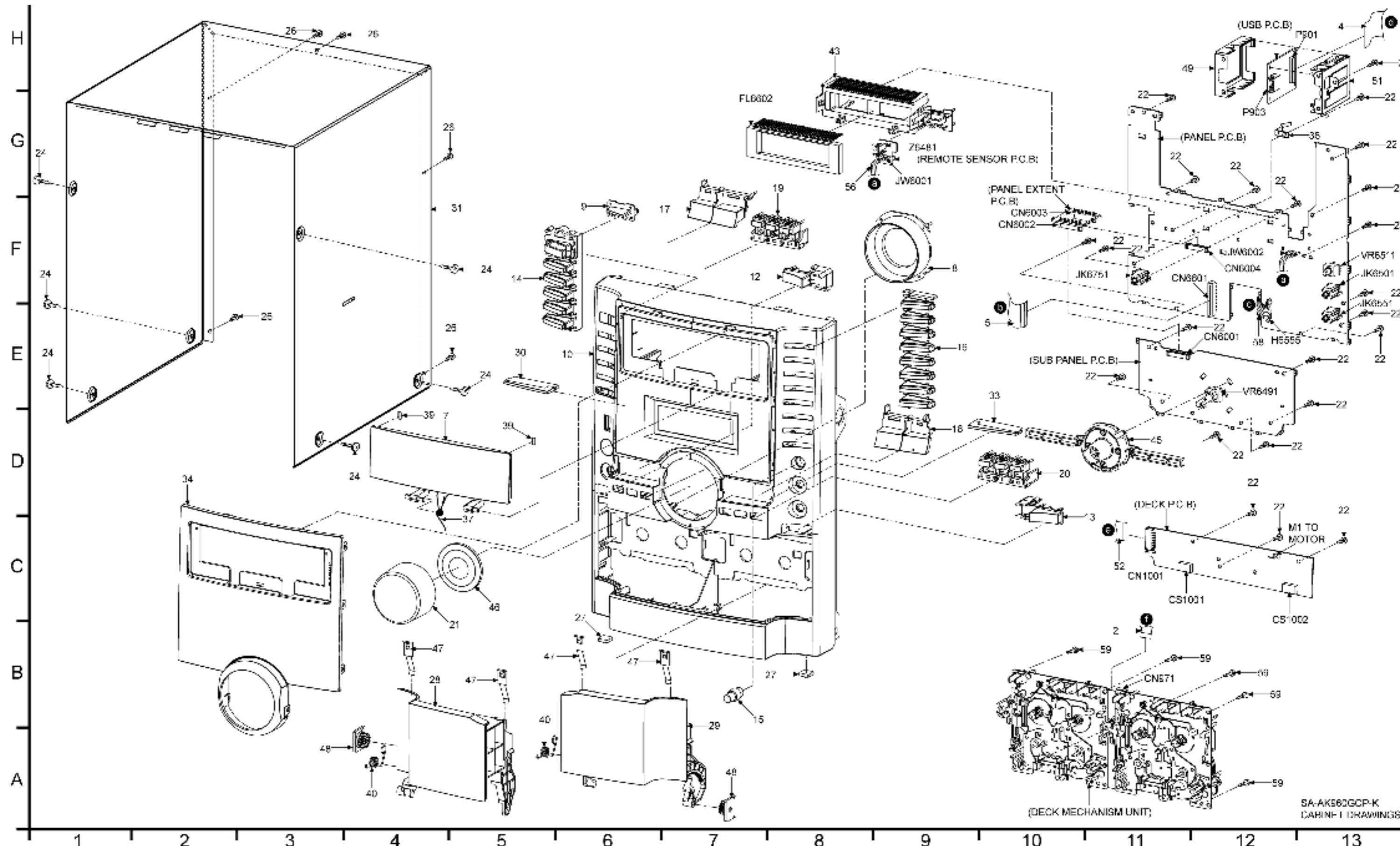
21 Troubleshooting Flowchart (CD Section Circuit)

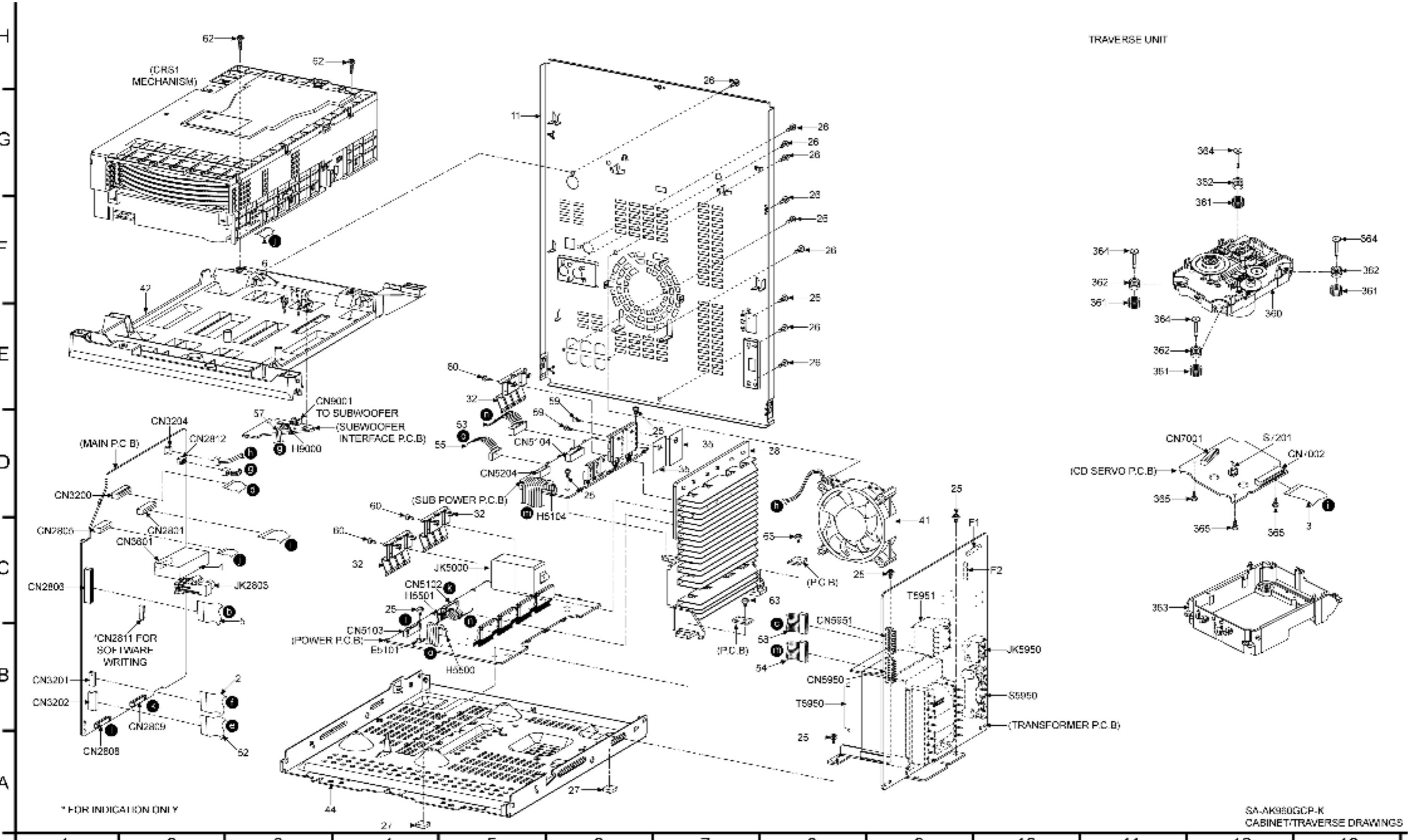




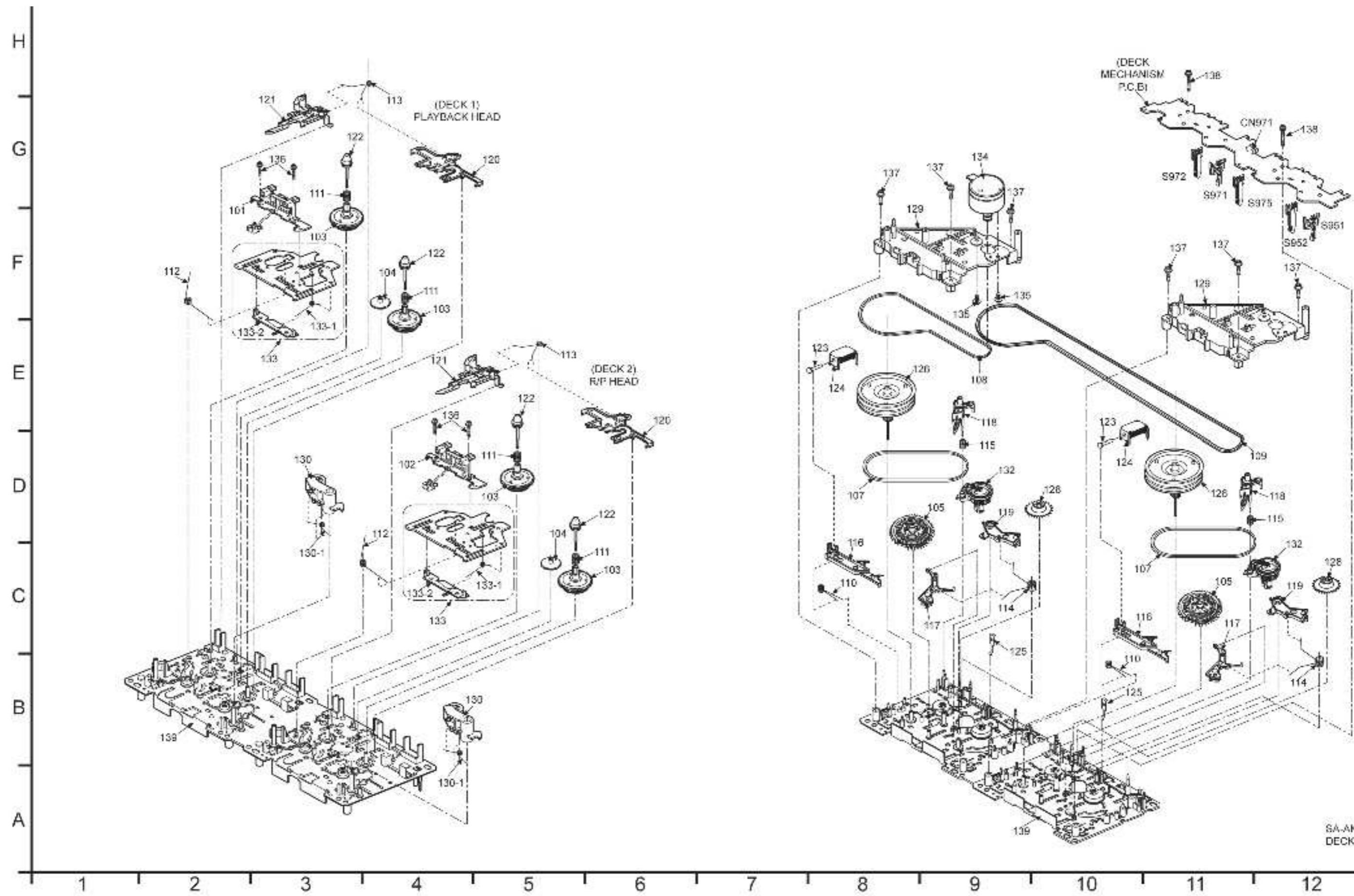
22 Exploded Views

22.1. Cabinet Parts Location & Traverse Parts Location

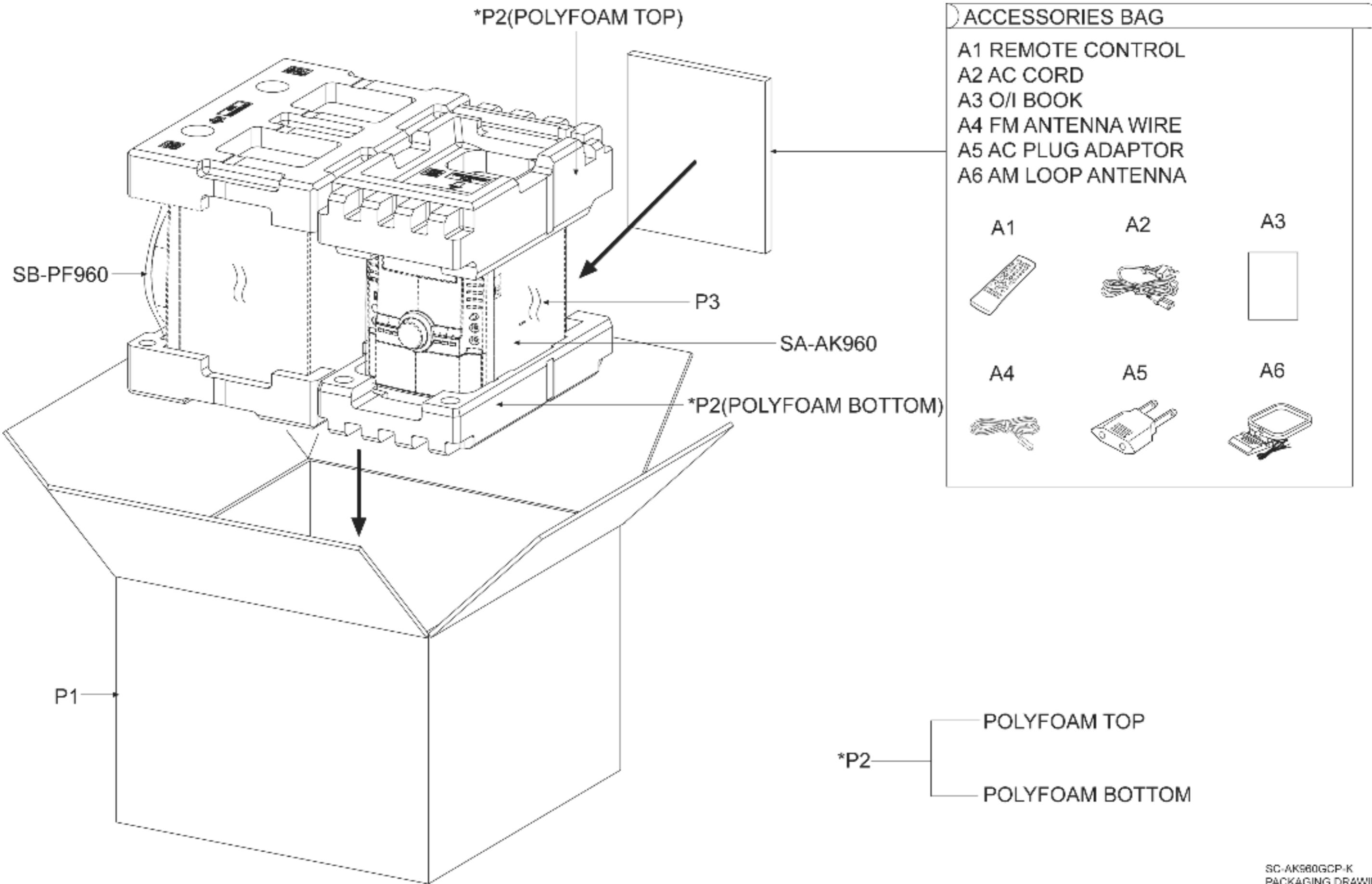




22.2. Deck Mechanism Parts Location (RAA4502-1S)



22.3. Packaging



23 Replacement Parts List

Notes:

- Important safety notice:

Components identified by mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardent (resistors), high-quality sound (capacitors), low noise (resistors), etc are used.

When replacing any of these components, be sure to use only manufacturer's specified parts shown in the parts list.

- The parenthesized indications in the Remarks columns specify the areas or colour. (Refer to the cover page for area or colour) Parts without these indications can be used for all areas.
- Warning: This product uses a laser diode. Refer to "Precaution of Laser Diode".
- Capacitor values are in microfarads (μF) unless specified otherwise, P= Pico-farads (pF), F= Farads.
- Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM).
- The marking (RTL) indicates that the Retention Time is limited for this items. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of a availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.
- [M] Indicates in the Remarks columns indicates parts supplied by PAVCSG.
- Reference for O/I book languages are as follows:

| | | | | | | | |
|-----|-----------------|-----|---------|-----|------------|-----|---------------------|
| Ar: | Arabic | Du: | Dutch | It: | Italian | Sp: | Spanish |
| Cf: | Canadian French | En: | English | Ko: | Korean | Sw: | Swedish |
| Cz: | Czech | Fr: | French | Po: | Polish | Co: | Traditional Chinese |
| Da: | Danish | Ge: | German | Ru: | Russian | Cn: | Simplified Chinese |
| Pe: | Persian | Ur: | Ukraine | Pr: | Portuguese | | |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|-------------|--------------|-------------------------|---------|
| | | CABINET AND CHASSIS | |
| 1 | J3CCBB000009 | TUNER PACK | [M] |
| 2 | REEX0503-1 | 10P FFC WIRE | [M] |
| 3 | REEV0140 | 22P FFC (CD TO MAIN) | [M] |
| 4 | REEV0142 | 22P FFC (CD TO MAIN) | [M] |
| 5 | REEV0190 | 30P FFC | [M] |
| 6 | REEX0747 | 14P FFC WIRE | [M] |
| 7 | RGKX0439-K | CD LID | [M] |
| 8 | RGLX0157-Q | VOLUME LIGHTING RING | [M] |
| 9 | RGLX0154-Q | POWER LIGHTING PIECE | [M] |
| 10 | RGPX0328-K | FRONT PANEL | [M] |
| 11 | RGRV0068A-A | REAR PANEL | [M] |
| 12 | RGUX0737-K | CASS OPEN BUTTON L | [M] |
| 13 | RGUX0738-K | CASS OPEN BUTTON R | [M] |
| 14 | RGUX0739-K | SELECTOR BUTTON | [M] |
| 15 | RGWX0056-1K | MIC VOLUME KNOB | [M] |
| 16 | RGUX0736-K | 5CD BUTTON | [M] |
| 17 | RGUX0732-K | FUNCTION BUTTON L | [M] |
| 18 | RGUX0733-K | FUNCTION BUTTON R | [M] |
| 19 | RGUX0734-K | CONTROL BUTTON L | [M] |
| 20 | RGUX0735-K | CONTROL BUTTON R | [M] |
| 21 | RGWX0072-S | VOLUME KNOB | [M] |
| 22 | RHD26046-L | SCREW | [M] |
| 24 | RHD30007-K2J | SCREW | [M] |
| 25 | RHD30111-3 | SCREW | [M] |
| 26 | RHD30119-S | SCREW (SILVER) | [M] |
| 27 | RKA0072-KJ | LEG CUSHION | [M] |
| 28 | RKFX0138-K | CASS LID L | [M] |
| 29 | RKFX0139-K | CASS LID R | [M] |
| 30 | RGLX0155-Q | LIGHTING PIECE L | [M] |
| 31 | RKMV0071A-KJ | TOP CABINET (BEND) | [M] |
| 32 | RMCX0021-J | TRANSISTOR CLIP | [M] |
| 33 | RGLX0156-Q | LIGHTING PIECE R | [M] |
| 34 | RKWX0278-H | FL WINDOW | [M] |
| 35 | RMZX0040 | IC INSULATOR | [M] |
| 36 | RMBX0070 | USB GROUND SPRING | [M] |
| 37 | RMBX0072 | CD LID OPEN SPRING | [M] |
| 38 | RXXX0100 | HEAT SINK | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|-------------|--------------|--------------------------------|---------|
| 39 | RMGX0033 | CUSHION RUBBER | [M] |
| 40 | RMBX0069 | CASS OPEN SPRING | [M] |
| 41 | L6FALEFH0030 | FAN UNIT | [M] |
| 42 | RMKX0113-3 | CD CHASSIS | [M] |
| 43 | RMNX0242 | FL HOLDER | [M] |
| 44 | RMKX0138 | BOTTOM CHASSIS | [M] |
| 45 | RMQX0279-W | LIGHT REFLECTOR | [M] |
| 46 | RMQV0076-W | REFLECTOR | [M] |
| 47 | RUS757ZAA | CASS HALF SPRING | [M] |
| 48 | RGX0002 | DAMPER GEAR | [M] |
| 49 | RSCV0086-1 | USB CASSING BOTTOM | [M] |
| 51 | RSCV0087B-1 | USB CASSING TOP | [M] |
| 52 | REEX0568 | 11P FFC WIRE | [M] |
| 53 | REXX0622 | 9P WIRE | [M] |
| 54 | REXX0623 | 9P WIRE (CN5950 TO H5104) | [M] |
| 55 | REXX0624 | 6P WIRE | [M] |
| 56 | REXX0628 | 3P WIRE | [M] |
| 57 | REXX0635 | 3P WIRE | [M] |
| 58 | REXX0655 | 9P FLAT WIRE (H6555 TO CN5951) | [M] |
| 59 | XTV3+10GFJ-M | SCREW | [M] |
| 60 | XTWS3+6TFJ | SCREW | [M] |
| 62 | XTW3+10TFC | SCREW | [M] |
| 63 | XTW3+12TFJ | SCREW | [M] |
| | | CASSETTE DECK | |
| 101 | RED0069-2 | R/P HEAD BLOCK UNIT | [M] |
| 102 | RED0070-1 | P/B HEAD BLOCK UNIT | [M] |
| 103 | RDG0300 | REEL BASE GEAR | [M] |
| 104 | RDG0301 | WINDING RELAY GEAR | [M] |
| 105 | RDK0026-4 | MAIN GEAR | [M] |
| 107 | RDV0033-4 | WINDING BELT | [M] |
| 108 | RDV0064-1 | CAPSTAN BELT | [M] |
| 109 | RDV0071-2 | CAPSTAN BELT B | [M] |
| 110 | RMB0312 | TRIGGER LEVER SPRING | [M] |
| 111 | RMB0400 | REEL SPRING | [M] |
| 112 | RMB0403 | HEAB PANEL SPRING | [M] |
| 113 | RMB0404 | BRAKE ROD SPRING | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|----------|--------------|--|---|
| 114 | RMB0406-5 | FR LEVER SPRING | [M] |
| 115 | RMB0408 | THRUST SPRING | [M] |
| 116 | RML0370-4 | TRIGGER LEVER | [M] |
| 117 | RML0371 | FR LEVER | [M] |
| 118 | RML0372-2 | WINDING LEVER | [M] |
| 119 | RML0374-2 | EJECT LEVER | [M] |
| 120 | RMM0131-1 | BRAKE ROD | [M] |
| 121 | RMM0133-1 | EJECT ROD | [M] |
| 122 | RMQ0519 | REEL HUB | [M] |
| 123 | RMS0398-1 | MOVING CORE | [M] |
| 124 | RSJ0003 | SOLENOID ASS'Y | [M] |
| 125 | RMC0061 | PACK SPRING | [M] |
| 126 | RXF0061-1 | FLYWHEEL F ASS'Y | [M] |
| 128 | RXG0040 | FF RELAY GEAR ASS'Y | [M] |
| 129 | RMK0283A-2 | SUB-CHASSIS | [M] |
| 130 | RXL0124 | PINCH ROLLER F ASS'Y | [M] |
| 130-1 | RMB0401 | PINCH ARM SPRING F | [M] |
| 132 | RXL0126 | WINDING ARM ASS'Y | [M] |
| 133 | RXQ0412-3 | HEAD PANEL ASS'Y | [M] |
| 133-1 | RMB0405-1 | FR ROD SPRING | [M] |
| 133-2 | RMM0132-1 | FR ROD | [M] |
| 134 | REM0121 | CAP MOTOR ASS'Y | [M] |
| 135 | RHD26022-1 | MOTOR SCREW | [M] |
| 136 | XTW2+5LFJ | HEAD BLOCK UNIT SCRE | [M] |
| 137 | XTW26+10SFJ | SUB-CHASSIS SCREW | [M] |
| 138 | XYC2+JF17FJ | PCB EARTH SCREW | [M] |
| 139 | RFKJAA4502-S | CHASSIS ASS'Y | [M] |
| | | | |
| | | TRAVERSE DECK | |
| | | | |
| 360 | RAE0165A-V | TRAVERSE | [M]  |
| 361 | RME0109-1 | FLOATING SPRING | [M] |
| 362 | RMG0703-R | FLOATING RUBBER | [M] |
| 363 | RMRX0064-1 | MIDDLE CHASSIS | [M] |
| 364 | RMS0757-1 | FIXED PIN | [M] |
| 365 | XTN2+6GFJ | SCREW | [M] |
| | | | |
| | | PRINTED CIRCUIT BOARD | |
| | | | |
| | REPX0607A | MAIN P.C.B / SUBWOOFER INTERFACE P.C.B | [M] (RTL) |
| | REPX0608A | PANEL P.C.B / PANEL EXTENT P.C.B / SUB PANEL P.C.B / REMOTE SENSOR P.C.B | [M] (RTL) |
| | REPX0609A | POWER P.C.B / SUB POWER P.C.B | [M] (RTL) |
| | REPX0610A | TRANSFORMER P.C.B | [M] (RTL) |
| | REPX0618A | DECK P.C.B | [M] (RTL) |
| | REPV0101A | USB P.C.B | [M] (RTL) |
| | REPV0111A | CD SERVO P.C.B | [M] (RTL) |
| | REPX0321A | DECK MECHANISM P.C.B | [M] (RTL) |
| | | | |
| | | INTEGRATED CIRCUITS | |
| IC900 | MNZSFB5KJM1 | IC USB CONTROLLER | [M] |
| IC951 | CODBZYE00002 | IC REGULATOR | [M] |
| IC951 | CNB13030R2AU | IC PHOTO INTERRUPTOR | [M] |
| IC971 | CNB13030R2AU | IC PHOTO INTERRUPTOR | [M] |
| IC1001 | AN7348S-E1 | IC P/B EQ / REC AMP / ALC / TPS AMP | [M] |
| IC1004 | C1AA00000612 | IC R/P SELECT | [M] |
| IC2801 | C2CBYY000522 | IC MIRCO-P | [M] |
| IC2803 | C1BB00001121 | IC ASP | [M] |
| IC2804 | C0AABB000125 | IC OP AMP | [M] |
| IC2805 | C0DBCYY00005 | IC REGULATOR | [M] |
| IC2810 | C0ABBB000244 | IC OP AMP | [M] |
| IC2872 | C0CBAHG00011 | IC AV REGULATOR | [M] |
| IC2900 | C1AB00002852 | IC AUDIO LIMITER | [M] |
| IC3800 | C0ABBB000244 | IC SMT OP AMP | [M] |
| IC5000 | C1BA00000487 | IC DIGITAL AMP | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|----------|---------------|--|---------|
| IC5101 | C0DAZYY00005 | IC REGULATOR | [M] |
| IC5200 | C1BA00000487 | IC DIGITAL AMP | [M] |
| IC5300 | C1BA00000487 | IC DIGITAL AMP | [M] |
| IC5400 | C1BA00000487 | IC DIGITAL AMP | [M] |
| IC5500 | C0JBAB0000902 | IC HEX INVERTER | [M] |
| IC6601 | C0HBB0000057 | IC FL DRIVER | [M] |
| IC6701 | C0JBAQ000186 | IC DRIVER | [M] |
| IC7001 | MN6627954MA | IC SERVO PROCESSOR / DIGITAL SIGNAL PROCESSOR / DIGITAL FILTER D/A CONVERTER | [M] |
| IC7002 | BA5948FPE2 | IC 4 CH DRIVE | [M] |
| | | TRANSISTORS | |
| Q1003 | B1AAGC000007 | TRANSISTOR | [M] |
| Q1004 | B1AAGC000007 | TRANSISTOR | [M] |
| Q1005 | B1AAGC000007 | TRANSISTOR | [M] |
| Q1007 | B1ABC000176 | TRANSISTOR | [M] |
| Q1017 | B1AARC000003 | TRANSISTOR | [M] |
| Q2311 | B1ABGC000005 | TRANSISTOR | [M] |
| Q2317 | B1ABGC000005 | TRANSISTOR | [M] |
| Q2341 | B1ABGC000005 | TRANSISTOR | [M] |
| Q2411 | B1ABGC000005 | TRANSISTOR | [M] |
| Q2417 | B1ABGC000005 | TRANSISTOR | [M] |
| Q2441 | B1ABGC000005 | TRANSISTOR | [M] |
| Q2501 | B1ABC000176 | TRANSISTOR | [M] |
| Q2511 | B1GDCFJJ0047 | TRANSISTOR | [M] |
| Q2551 | B1GDCFJJ0047 | TRANSISTOR | [M] |
| Q2552 | B1GDCFJJ0047 | TRANSISTOR | [M] |
| Q2553 | B1ABC000176 | TRANSISTOR | [M] |
| Q2554 | B1ABC000176 | TRANSISTOR | [M] |
| Q2555 | B1ABC000176 | TRANSISTOR | [M] |
| Q2556 | B1GDCFJJ0047 | TRANSISTOR | [M] |
| Q2557 | B1ABC000176 | TRANSISTOR | [M] |
| Q2558 | B1ABC000176 | TRANSISTOR | [M] |
| Q2559 | B1GBCFJJ0051 | TRANSISTOR | [M] |
| Q2803 | B1GBCFJJ0051 | TRANSISTOR | [M] |
| Q2936 | B1ACKD000006 | TRANSISTOR | [M] |
| Q2937 | B1GBCFJJ0051 | TRANSISTOR | [M] |
| Q2950 | B1ACKD000006 | TRANSISTOR | [M] |
| Q2951 | B1ACKD000006 | TRANSISTOR | [M] |
| Q2952 | B1GBCFLL0037 | TRANSISTOR | [M] |
| Q3100 | B1GBCFLL0037 | TRANSISTOR | [M] |
| Q3500 | B1GBCFLL0037 | TRANSISTOR | [M] |
| Q3501 | B1GBCFLL0037 | TRANSISTOR | [M] |
| Q3502 | B1GBCFLL0037 | TRANSISTOR | [M] |
| Q3503 | B1ACKD000006 | TRANSISTOR | [M] |
| Q3504 | B1ACKD000006 | TRANSISTOR | [M] |
| Q3505 | B1ACKD000006 | TRANSISTOR | [M] |
| Q3506 | B1ABC000176 | TRANSISTOR | [M] |
| Q3507 | B1ABC000176 | TRANSISTOR | [M] |
| Q3508 | B1ABC000176 | TRANSISTOR | [M] |
| Q3535 | B1ABC000176 | TRANSISTOR | [M] |
| Q3537 | B1ABC000176 | TRANSISTOR | [M] |
| Q3601 | 2SC3940AOA | TRANSISTOR | [M] |
| Q5091 | B1GBCFJJ0051 | TRANSISTOR | [M] |
| Q5092 | B1GBCFJJ0051 | TRANSISTOR | [M] |
| Q5100 | B1GACFGA0002 | TRANSISTOR | [M] |
| Q5103 | B1ABC000176 | TRANSISTOR | [M] |
| Q5104 | B1ABC000176 | TRANSISTOR | [M] |
| Q5105 | B1CEMG000003 | TRANSISTOR | [M] |
| Q5106 | B1CEMG000003 | TRANSISTOR | [M] |
| Q5108 | B1ABC000176 | TRANSISTOR | [M] |
| Q5109 | 2SB0709AHL | TRANSISTOR | [M] |
| Q5111 | B1BACG000023 | TRANSISTOR | [M] |
| Q5112 | B1BCCG000002 | TRANSISTOR | [M] |
| Q5113 | B1GDCFNA0001 | TRANSISTOR | [M] |
| Q5114 | B1ABC000176 | TRANSISTOR | [M] |
| Q5153 | B1ABC000176 | TRANSISTOR | [M] |
| Q5154 | 2SB0709AHL | TRANSISTOR | [M] |
| Q5173 | B1ABC000176 | TRANSISTOR | [M] |
| Q5191 | B1GBCFJJ0051 | TRANSISTOR | [M] |
| Q5192 | B1GBCFJJ0051 | TRANSISTOR | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|----------|---------------|-------------------------|---------|
| Q5950 | B1AAKD000014 | TRANSISTOR | [M] |
| Q5951 | 2SB0621AHA | TRANSISTOR | [M] |
| Q5952 | B1GBCFJJ0051 | TRANSISTOR | [M] |
| Q5953 | B1ABCF000176 | TRANSISTOR | [M] |
| Q5954 | B1AACG000007 | TRANSISTOR | [M] |
| Q6501 | B1AACF000064 | TRANSISTOR | [M] |
| Q6502 | B1AACF000064 | TRANSISTOR | [M] |
| Q7601 | B1ADCF000001 | TRANSISTOR | [M] |
| | | | |
| QR2560 | B1ADCE000012 | TRANSISTOR | [M] |
| QR3513 | B1GBCFL0037 | CHIP TRANSISTOR | [M] |
| | | | |
| | | DIODES | |
| D951 | MA2C16500E | DIODE | [M] |
| D971 | MA2C16500E | DIODE | [M] |
| D1003 | B0ACCK000005 | DIODE | [M] |
| D2191 | B0ACCK000005 | DIODE | [M] |
| D2503 | B0ADCC000002 | DIODE | [M] |
| D2506 | B0ACCK000005 | DIODE | [M] |
| D2551 | B0BC2R4A0006 | DIODE | [M] |
| D2552 | B0BC2R4A0006 | DIODE | [M] |
| D2583 | B0BC9R000008 | DIODE | [M] |
| D2603 | B0BC9R1A0218 | DIODE | [M] |
| D2801 | B0ACCK000005 | DIODE | [M] |
| D2803 | B0ACCK000005 | DIODE | [M] |
| D2811 | B0AD CJ000020 | DIODE | [M] |
| D2813 | B0ACCK000005 | DIODE | [M] |
| D2814 | B0ACCK000005 | DIODE | [M] |
| D2815 | B0ACCK000005 | DIODE | [M] |
| D2871 | BOEAKM000117 | DIODE | [M] |
| D2936 | BOEAKM000117 | DIODE | [M] |
| D3101 | BOEAKM000117 | DIODE | [M] |
| D3102 | BOEAKM000117 | DIODE | [M] |
| D5101 | B0BC01200019 | DIODE | [M] |
| D5102 | B0BA02400030 | DIODE | [M] |
| D5103 | B0BA4R600003 | DIODE | [M] |
| D5104 | B0BC01200019 | DIODE | [M] |
| D5105 | B0BA02400030 | DIODE | [M] |
| D5107 | B0BA01500003 | DIODE | [M] |
| D5109 | B0BA01100004 | DIODE | [M] |
| D5121 | BOEAKM000122 | DIODE | [M] |
| D5122 | BOEAKM000122 | DIODE | [M] |
| D5123 | BOEAKM000122 | DIODE | [M] |
| D5125 | BOAAFK000004 | DIODE | [M] |
| D5126 | B0ACCK000005 | DIODE | [M] |
| D5127 | BOEAKM000122 | DIODE | [M] |
| D5130 | BOJAME000025 | DIODE | [M] |
| D5152 | B0BA01900005 | DIODE | [M] |
| D5173 | B0BA5R000004 | DIODE | [M] |
| D5501 | BOACCE000003 | DIODE | [M] |
| D5502 | BOACCE000003 | DIODE | [M] |
| D5503 | B0BC5R000009 | DIODE | [M] |
| D5950 | B0FBAM000009 | DIODE | [M] |
| D5951 | B0FBAM000009 | DIODE | [M] |
| D5952 | B0FBAM000009 | DIODE | [M] |
| D5954 | BOEAKM000122 | DIODE | [M] |
| D5955 | BOEAKM000122 | DIODE | [M] |
| D5956 | BOEAKM000122 | DIODE | [M] |
| D5957 | BOEAKM000122 | DIODE | [M] |
| D5958 | BOEAKM000122 | DIODE | [M] |
| D5959 | BOEAKM000122 | DIODE | [M] |
| D5960 | B0BA02400030 | DIODE | [M] |
| D5961 | BOAACK000004 | DIODE | [M] |
| D5962 | BOAACK000004 | DIODE | [M] |
| D5964 | B0BA6R800008 | DIODE | [M] |
| D5965 | BOAACK000004 | DIODE | [M] |
| D5966 | BOAACK000004 | DIODE | [M] |
| D5967 | BOAACK000004 | DIODE | [M] |
| D5968 | BOAACK000004 | DIODE | [M] |
| D5969 | BOAACK000004 | DIODE | [M] |
| D6301 | BOEAKM000117 | DIODE | [M] |
| D6302 | BOEAKM000117 | DIODE | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| D6458 | B3AAA0000803 | DIODE | [M] |
| D6502 | B3AEA0000107 | DIODE | [M] |
| D6503 | B3AEA0000107 | DIODE | [M] |
| D6505 | B3AEA0000107 | DIODE | [M] |
| D6506 | B3AEA0000107 | DIODE | [M] |
| D6507 | B3AEA0000107 | DIODE | [M] |
| D6508 | B3AEA0000107 | DIODE | [M] |
| D6635 | B0BC5R600003 | DIODE | [M] |
| D6841 | B0BC5R600003 | DIODE | [M] |
| D7101 | B0BC9R000008 | DIODE | [M] |
| D7650 | MAZ80560ML | DIODE | [M] |
| | | | |
| DW2900 | B0ADCJ000020 | DUAL CHIP DIODE | [M] |
| | | | |
| DZ2901 | B0BC5R600003 | CHIP ZENER DIODE | [M] |
| | | | |
| | | VARIABLE RESISTORS | |
| | | | |
| VR6491 | EVEKE2F3524B | VR VOLUME JOG | [M] |
| VR6511 | EVUF2AF15B14 | VR MIC JOG | [M] |
| | | | |
| | | SWITCHES | |
| | | | |
| S951 | K0J1BB000017 | SW MODE | [M] |
| S952 | K0J1BB000021 | SW HALF | [M] |
| S971 | K0J1BB000017 | SW MODE | [M] |
| S972 | K0J1BB000021 | SW HALF | [M] |
| S975 | K0J1BB000021 | SW RECINH_F | [M] |
| S5950 | K0ABL000003 | SW VOLTAGE SELECTOR | [M] ▲ |
| S6101 | EVQ21405RJ | SW POWER | [M] |
| S6102 | EVQ21405RJ | SW M_EQ- | [M] |
| S6103 | EVQ21405RJ | SW M_EQ | [M] |
| S6104 | EVQ21405RJ | SW M_EQ+ | [M] |
| S6105 | EVQ21405RJ | SW HARD BASS | [M] |
| S6106 | EVQ21405RJ | SW USB | [M] |
| S6107 | EVQ21405RJ | SW DECK OPEN_1 | [M] |
| S6201 | EVQ21405RJ | SW SINGLE CHANGE | [M] |
| S6202 | EVQ21405RJ | SW CD1 | [M] |
| S6203 | EVQ21405RJ | SW CD2 | [M] |
| S6204 | EVQ21405RJ | SW CD3 | [M] |
| S6205 | EVQ21405RJ | SW CD4 | [M] |
| S6206 | EVQ21405RJ | SW CD5 | [M] |
| S6209 | EVQ21405RJ | SW MULTI CHANGE | [M] |
| S6210 | EVQ21405RJ | SW DECK OPEN_2 | [M] |
| S6211 | EVQ21405RJ | SW OPEN/CLOSE | [M] |
| S6301 | EVQ21405RJ | SW EXT IN | [M] |
| S6302 | EVQ21405RJ | SW CD | [M] |
| S6303 | EVQ21405RJ | SW DISPLAY | [M] |
| S6304 | EVQ21405RJ | SW DECK 1/2 | [M] |
| S6305 | EVQ21405RJ | SW REC | [M] |
| S6306 | EVQ21405RJ | SW REW | [M] |
| S6307 | EVQ21405RJ | SW FF | [M] |
| S6308 | EVQ21405RJ | SW STOP/-DEMO | [M] |
| S6309 | EVQ21405RJ | SW TUNER/BAND | [M] |
| S6310 | EVQ21405RJ | SW TAPE | [M] |
| S7201 | RSH1A048-A | SW REST | [M] |
| | | | |
| | | CONNECTORS | |
| | | | |
| CN971 | K1MN10B00104 | 10P FFC CONNECTOR | [M] |
| CN1001 | K1MN11B00016 | 11P CONNECTOR | [M] |
| CN2801 | K1MN22AA0004 | 22P CONNECTOR | [M] |
| CN2805 | K1MN14A00049 | 14P FFC CONNECTOR | [M] |
| CN2806 | K1MN30AA0004 | 30P CONNECTOR | [M] |
| CN2808 | K1KB12B00037 | 12P CONNECTOR | [M] |
| CN2809 | K1KB12B00037 | 12P CONNECTOR | [M] |
| CN2812 | K1KA03AA0319 | 3P CONNECTOR | [M] |
| CN3200 | K1MN22AA0004 | 22P CONNECTOR | [M] |
| CN3201 | K1MN10AA0003 | 10P FFC CONNECTOR | [M] |
| CN3202 | K1MN11A00008 | 11P CONNECTOR | [M] |
| CN3204 | K1KA02AA0186 | FAN CONNECTOR | [M] |
| CN3601 | K1KA10AA0031 | 10P CONNECTOR | [M] |
| CN5102 | K1KA12AA0031 | 12P CONNECTOR | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| CN5103 | K1KA12AA0031 | 12P CONNECTOR | [M] |
| CN5104 | K1KA09AA0319 | 9P CONNECTOR | [M] |
| CN5204 | K1KA06AA0319 | 6P CONNECTOR | [M] |
| CN5950 | K1KA09AA0319 | 9P CONNECTOR | [M] |
| CN5951 | K1KA09AA0193 | 9P CONNECTOR | [M] |
| CN6001 | K1KB12B00037 | 12P CONNECTOR | [M] |
| CN6002 | K1KA12AA0031 | 12P CONNECTOR | [M] |
| CN6003 | K1KB12B00037 | 12P CONNECTOR | [M] |
| CN6004 | K1KA12AA0031 | 12P CONNECTOR | [M] |
| CN6601 | K1MN30AA0004 | 30P CONNECTOR | [M] |
| CN7001 | K1MN16B00154 | 16P FFC CONNECTOR | [M] |
| CN7002 | K1MN22BA0005 | 22P CONNECTOR | [M] |
| CN9001 | K1KA03BA0154 | 3P CONNECTOR | [M] |
| CS1001 | K1MY05AA0043 | 5P CONNECTOR | [M] |
| CS1002 | K1MY05AA0043 | 5P CONNECTOR | [M] |
| P901 | K1MN22BA0005 | 22P CONNECTOR | [M] |
| P903 | K1FY104B0011 | USB CONNECTOR | [M] |
| | | COILS & TRANSFORMERS | |
| L900 | G1C100K00019 | CHIP COIL | [M] |
| L1001 | G0C470JA0052 | RF CHOKE COIL | [M] |
| L1002 | G2ZZ00000024 | BIAS OCS COIL | [M] |
| L3200 | G0C101JA0052 | INDUCTOR | [M] |
| L3201 | G0C220JA0055 | CHOKE COIL | [M] |
| L5000 | G0B120M00001 | INDUCTOR | [M] |
| L5200 | G0B120M00001 | INDUCTOR | [M] |
| L5300 | G0B120M00001 | INDUCTOR | [M] |
| L5400 | G0B120M00001 | INDUCTOR | [M] |
| L5500 | J0JKB0000020 | EMI BEAD CORE | [M] |
| L5501 | J0JKB0000020 | EMI BEAD CORE | [M] |
| L5950 | ELF15N035AN | LINE FILTER | [M] ▲ |
| LB840 | J0JAC0000021 | CHIP INDUCTOR | [M] |
| LB841 | J0JAC0000021 | CHIP INDUCTOR | [M] |
| LB843 | J0JAC0000021 | CHIP INDUCTOR | [M] |
| LB845 | J0JAC0000021 | CHIP INDUCTOR | [M] |
| LB846 | J0JAC0000021 | CHIP INDUCTOR | [M] |
| LB848 | J0JAC0000021 | CHIP INDUCTOR | [M] |
| LB850 | J0JHC0000045 | CHIP INDUCTOR | [M] |
| LB852 | J0JHC0000045 | CHIP INDUCTOR | [M] |
| LB930 | J0JHC0000045 | CHIP INDUCTOR | [M] |
| LB932 | J0JAC0000021 | CHIP INDUCTOR | [M] |
| LB933 | J0JAC0000021 | CHIP INDUCTOR | [M] |
| LB934 | J0JAC0000021 | CHIP INDUCTOR | [M] |
| LB935 | J0JAC0000021 | CHIP INDUCTOR | [M] |
| LB936 | J0JAC0000021 | CHIP INDUCTOR | [M] |
| LB938 | J0JAC0000021 | CHIP INDUCTOR | [M] |
| LB951 | J0JHC0000045 | CHIP INDUCTOR | [M] |
| LB952 | J0JHC0000045 | CHIP INDUCTOR | [M] |
| LB7262 | D0GBR00JA008 | CHIP JUMPER | [M] |
| LB7263 | D0GBR00JA008 | CHIP JUMPER | [M] |
| LB7264 | D0GBR00JA008 | CHIP JUMPER | [M] |
| T5950 | G5CYBYY00006 | MAIN TRANSFORMER | [M] ▲ |
| T5951 | G4C2AAJ00005 | SUB TRANSFORMER | [M] ▲ |
| | | COMPONENT COMBINATION | |
| Z971 | RGSD12A1445T | RADA RESISTOR | [M] |
| Z5950 | ERZV10V511CS | ZENER | [M] ▲ |
| Z6481 | B3RAD0000146 | OPTICAL TRANSMITTER | [M] |
| M1 | RWJ0102050CK | DECK TO MECHA MOTOR | [M] |
| | | RELAY | |
| RL5950 | K6B1AEA00003 | POWER RELAY | [M] ▲ |
| | | OSCILLATORS | |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| X900 | H0D120500009 | CRYSTAL OSCILLATOR | [M] |
| X2801 | H0A327200115 | CRYSTAL OSCILLATOR | [M] |
| X2802 | H2B100500004 | CERAMIC RESONATOR | [M] |
| X5500 | H2A375300003 | CRYSTAL OSCILLATOR | [M] |
| X5501 | H2A415300001 | CRYSTAL OSCILLATOR | [M] |
| X7201 | H2B169500005 | CRYSTAL | [M] |
| | | DISPLAY TUBE | |
| FL6602 | A2BD00000179 | FL DISPLAY | [M] |
| | | FUSES | |
| F1 | K5D502BLA013 | FUSE 250V T5AL | [M] ▲ |
| F2 | K5D312BLA015 | FUSE 250V T3.15AL | [M] ▲ |
| | | FUSE HOLDERS | |
| FC1 | EYF52BCY | FUSE CLIP | [M] |
| FC2 | EYF52BCY | FUSE CLIP | [M] |
| FC3 | EYF52BCY | FUSE CLIP | [M] |
| FC4 | EYF52BCY | FUSE CLIP | [M] |
| | | FUSE PROTECTOR | |
| FP5950 | K5G402AA0002 | FUSE PROTECTOR | [M] ▲ |
| | | HOLDERS | |
| H5104 | K1YF09000001 | 9P WIRE HOLDER | [M] |
| H5500 | K1YF06000002 | 6P WIRE HOLDER | [M] |
| H5501 | K1YF09000001 | 9P WIRE HOLDER | [M] |
| H6555 | K1YZ09000002 | CABLE HOLDER | [M] |
| H9000 | K1YF03000003 | 3P CABLE HOLDER | [M] |
| JW6001 | K1YF03000003 | 3P CABLE HOLDER | [M] |
| JW6002 | K1YF03000003 | 3P CABLE HOLDER | [M] |
| | | JACKS | |
| JK2803 | K2HA204B0153 | JK CONNECTOR | [M] |
| JK5000 | K4AC06D00002 | JK SPEAKER | [M] |
| JK5950 | K2AA2B000011 | AC INLET | [M] ▲ |
| JK6501 | K2HC103A0024 | JK HP | [M] |
| JK6551 | K2HC103A0024 | JK HP | [M] |
| JK6751 | K2HC1YYA0002 | JK MUSIC PORT | [M] |
| | | EARTH TERMINAL | |
| E5101 | K9ZZ00001279 | EARTH PLATE | [M] |
| | | CHIP JUMPERS | |
| K2400 | D0GBR00JA008 | CHIP JUMPER | [M] |
| K2401 | D0GBR00JA008 | CHIP JUMPER | [M] |
| K2405 | D0GBR00JA008 | CHIP JUMPER | [M] |
| | | | |
| W2 | ERJ3GEY0R00V | CHIP JUMPER | [M] |
| W2323 | D0GDR00JA017 | CHIP JUMPER | [M] |
| W2533 | D0GDR00JA017 | CHIP JUMPER | [M] |
| W2564 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W2565 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W2568 | D0GDR00JA017 | CHIP JUMPER | [M] |
| W2569 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W2571 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W2572 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W2577 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W2579 | D0GDR00JA017 | CHIP JUMPER | [M] |
| W2580 | D0GDR00JA017 | CHIP JUMPER | [M] |
| W2581 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W2582 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W2590 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W2591 | D0GBR00JA008 | CHIP JUMPER | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| W2592 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W2593 | D0GDR00JA017 | CHIP JUMPER | [M] |
| W2594 | D0GDR00JA008 | CHIP JUMPER | [M] |
| W2595 | D0GDR00JA017 | CHIP JUMPER | [M] |
| W2596 | D0GDR00JA017 | CHIP JUMPER | [M] |
| W2659 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W2660 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W2661 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W2663 | D0GDR00JA017 | CHIP JUMPER | [M] |
| W2665 | D0GDR00JA017 | CHIP JUMPER | [M] |
| W2666 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W2667 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W2675 | D0GDR00JA017 | CHIP JUMPER | [M] |
| W2681 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W2691 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W5105 | ERJ6GEY0R00V | CHIP JUMPER | [M] |
| W5181 | D0GDR00JA017 | CHIP JUMPER | [M] |
| W5185 | D0GDR00JA017 | CHIP JUMPER | [M] |
| W5186 | D0GDR00JA017 | CHIP JUMPER | [M] |
| W5301 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W5302 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W5305 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W5306 | D0GDR00JA017 | CHIP JUMPER | [M] |
| W5307 | D0GDR00JA017 | CHIP JUMPER | [M] |
| W5308 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W5310 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W5311 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W5313 | D0GDR00JA017 | CHIP JUMPER | [M] |
| W5315 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W5318 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W6056 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W6057 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W6058 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W6059 | D0GDR00JA017 | CHIP JUMPER | [M] |
| W6060 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W6066 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W7001 | D0GDR00JA017 | CHIP JUMPER | [M] |
| W7002 | D0GDR00JA017 | CHIP JUMPER | [M] |
| W7003 | D0GDR00JA017 | CHIP JUMPER | [M] |
| W7004 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W7005 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W7006 | ERJ8GEY0R00V | CHIP JUMPER | [M] |
| W7007 | ERJ8GEY0R00V | CHIP JUMPER | [M] |
| W7008 | D0GDR00JA017 | CHIP JUMPER | [M] |
| W7009 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W7010 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W7011 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W7012 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W7013 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W7014 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W7015 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W7016 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W7017 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W7018 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W7019 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W7020 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W7021 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W7022 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W7023 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W7024 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W7025 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W7026 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W7027 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W7028 | D0GBR00JA008 | CHIP JUMPER | [M] |
| W7029 | D0GBR00JA008 | CHIP JUMPER | [M] |
| | | PACKING MATERIALS | |
| P1 | RPGX1807 | PACKING CASE | [M] |
| P2 | RPNX0499 | POLYFOAM | [M] |
| P3 | RPFX0198 | MIRAMAT SHEET | [M] |
| | | ACCESSORIES | |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| A1 | N2QAYB000189 | REMOTE CONTROL | [M] |
| A1-1 | RKK-AK960 | R/C BATTERY COVER | [M] |
| A2 | K2CQ2CA0006 | AC CORD | [M] |
| A3 | RQTV0244-M | O/I BOOK (En/Sp) | [M] |
| A4 | RSA007-L1 | FM ANTENNA WIRE | [M] |
| A5 | K2DA42E0001 | AC PLUG ADAPTOR | [M] |
| A6 | N1DAAA00001 | AM LOOP ANTENNA | [M] |
| | | RESISTORS | |
| R901 | ERJ2GEJ102X | 1K 1/32W | [M] |
| R902 | ERJ2GEJ102X | 1K 1/32W | [M] |
| R903 | ERJ2GE0R00X | 0 1/32W | [M] |
| R904 | ERJ2GE0R00X | 0 1/32W | [M] |
| R906 | ERJ2GE0R00X | 0 1/32W | [M] |
| R914 | ERJ2GE0R00X | 0 1/32W | [M] |
| R950 | ERJ2GEJ223X | 22K 1/32W | [M] |
| R951 | ERJ2GE0R00X | 0 1/32W | [M] |
| R952 | ERDS2TJ821T | 820 1/4W | [M] |
| R952 | ERJ2GEJ240X | 24 1/32W | [M] |
| R953 | ERDS2TJ393T | 39K 1/4W | [M] |
| R953 | ERJ2GEJ240X | 24 1/32W | [M] |
| R954 | ERJ2GEJ153X | 15K 1/32W | [M] |
| R955 | ERJ2GEJ153X | 15K 1/32W | [M] |
| R957 | ERJ2GEJ222X | 2.2K 1/32W | [M] |
| R958 | ERJ2GEJ104X | 100K 1/32W | [M] |
| R971 | ERJ2GEJ102X | 1K 1/32W | [M] |
| R972 | ERDS2TJ821T | 820 1/4W | [M] |
| R972 | ERJ2GEJ102X | 1K 1/32W | [M] |
| R973 | ERDS2TJ393T | 39K 1/4W | [M] |
| R1002 | D0GBR00JA008 | 0 1/16W | [M] |
| R1003 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R1004 | D0GB152JA007 | 1.5K 1/16W | [M] |
| R1005 | D0GB472JA041 | 4.7K 1/16W | [M] |
| R1007 | ERD25FV4R7T | 4.7 1/4W | [M] |
| R1009 | D0GB183JA007 | 18K 1/16W | [M] |
| R1010 | D0GB183JA007 | 18K 1/16W | [M] |
| R1011 | ERJ3GEYJ822V | 8.2K 1/16W | [M] |
| R1012 | D0GB472JA041 | 4.7K 1/16W | [M] |
| R1013 | D0GB472JA041 | 4.7K 1/16W | [M] |
| R1014 | D0GB472JA041 | 4.7K 1/16W | [M] |
| R1015 | D0GB470JA008 | 47 1/16W | [M] |
| R1016 | D0GB470JA008 | 47 1/16W | [M] |
| R1017 | ERJ3GEYJ822V | 8.2K 1/16W | [M] |
| R1018 | D0GB392JA007 | 3.9K 1/16W | [M] |
| R1019 | D0GB392JA007 | 3.9K 1/16W | [M] |
| R1020 | D0GBR00JA008 | 0 1/16W | [M] |
| R1022 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R1024 | D0GBR00JA008 | 0 1/16W | [M] |
| R1025 | D0GBR00JA008 | 0 1/16W | [M] |
| R1026 | ERJ3GEYJ102V | 1K 1/16W | [M] |
| R1027 | D0GBR00JA008 | 0 1/16W | [M] |
| R1028 | ERJ3GEYJ822V | 8.2K 1/16W | [M] |
| R1029 | D0GB475JA007 | 4.7M 1/16W | [M] |
| R1030 | D0GB101JA007 | 100 1/16W | [M] |
| R1031 | D0GB273JA007 | 27K 1/16W | [M] |
| R1032 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R1035 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R1040 | D0GBR00JA008 | 0 1/16W | [M] |
| R1049 | D0GBR00JA008 | 0 1/16W | [M] |
| R1050 | D0GBR00JA008 | 0 1/16W | [M] |
| R1055 | D0GB222JA041 | 2.2K 1/16W | [M] |
| R1057 | D0GB222JA041 | 2.2K 1/16W | [M] |
| R1060 | D0GBR00JA008 | 0.BR 1/16W | [M] |
| R1084 | D0GB222JA041 | 2.2K 1/16W | [M] |
| R1085 | D0GB473JA041 | 47K 1/16W | [M] |
| R1086 | D0GB222JA041 | 2.2K 1/16W | [M] |
| R1087 | D0GB473JA041 | 47K 1/16W | [M] |
| R1090 | D0GB221JA041 | 220 1/16W | [M] |
| R1091 | D0GBR00JA008 | 0 1/16W | [M] |
| R1092 | D0GBR00JA008 | 0 1/16W | [M] |
| R1097 | ERJ3GEYJ103V | 10K 1/16W | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| R1098 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R1099 | D0GBR00JA008 | 0 1/16W | [M] |
| R1100 | D0GBR00JA008 | 0 1/16W | [M] |
| R1101 | D0GBR00JA008 | 0 1/16W | [M] |
| R1102 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R2102 | D0GB332JA007 | 3.3K 1/16W | [M] |
| R2103 | D0GB153JA007 | 15K 1/16W | [M] |
| R2104 | D0GB273JA007 | 27K 1/16W | [M] |
| R2121 | D0GB182JA007 | 1.8K 1/16W | [M] |
| R2122 | D0GB332JA007 | 3.3K 1/16W | [M] |
| R2131 | D0GB182JA007 | 1.8K 1/16W | [M] |
| R2132 | D0GB332JA007 | 3.3K 1/16W | [M] |
| R2141 | D0GB123JA007 | 12K 1/16W | [M] |
| R2142 | D0GB272JA007 | 2.7K 1/16W | [M] |
| R2151 | D0GB153JA007 | 15K 1/16W | [M] |
| R2163 | D0GB562JA007 | 5.6K 1/16W | [M] |
| R2172 | D0GB153JA007 | 15K 1/16W | [M] |
| R2173 | D0GB472JA007 | 4.7K 1/16W | [M] |
| R2181 | D0GB561JA007 | 560 1/16W | [M] |
| R2182 | D0GBR00JA008 | 0 1/16W | [M] |
| R2183 | D0GB332JA007 | 3.3K 1/16W | [M] |
| R2193 | D0GB472JA007 | 4.7K 1/16W | [M] |
| R2194 | D0GB104JA007 | 100K 1/16W | [M] |
| R2195 | D0GB103JA007 | 10K 1/16W | [M] |
| R2196 | D0GB103JA007 | 10K 1/16W | [M] |
| R2202 | D0GB332JA007 | 3.3K 1/16W | [M] |
| R2203 | D0GB153JA007 | 15K 1/16W | [M] |
| R2204 | D0GB273JA007 | 27K 1/16W | [M] |
| R2221 | D0GB182JA007 | 1.8K 1/16W | [M] |
| R2222 | D0GB332JA007 | 3.3K 1/16W | [M] |
| R2231 | D0GB182JA007 | 1.8K 1/16W | [M] |
| R2232 | D0GB332JA007 | 3.3K 1/16W | [M] |
| R2241 | D0GB123JA007 | 12K 1/16W | [M] |
| R2242 | D0GB272JA007 | 2.7K 1/16W | [M] |
| R2251 | D0GB153JA007 | 15K 1/16W | [M] |
| R2261 | D0GB473JA041 | 47K 1/16W | [M] |
| R2262 | D0GB102JA007 | 1K 1/16W | [M] |
| R2271 | D0GB153JA007 | 15K 1/16W | [M] |
| R2273 | D0GB472JA007 | 4.7K 1/16W | [M] |
| R2281 | D0GB561JA007 | 560 1/16W | [M] |
| R2282 | D0GBR00JA008 | 0 1/16W | [M] |
| R2283 | D0GB104JA007 | 100K 1/16W | [M] |
| R2302 | D0GBR00JA008 | 0 1/16W | [M] |
| R2311 | D0GB471JA007 | 470 1/16W | [M] |
| R2312 | D0GB103JA007 | 10K 1/16W | [M] |
| R2313 | D0GB104JA007 | 100K 1/16W | [M] |
| R2315 | D0GB182JA007 | 1.8K 1/16W | [M] |
| R2316 | D0GB471JA007 | 470 1/16W | [M] |
| R2317 | D0GB103JA007 | 10K 1/16W | [M] |
| R2318 | D0GB104JA007 | 100K 1/16W | [M] |
| R2327 | D0GB123JA007 | 12K 1/16W | [M] |
| R2341 | D0GB180JA008 | 18 1/16W | [M] |
| R2342 | D0GB180JA008 | 18 1/16W | [M] |
| R2343 | D0GB180JA008 | 18 1/16W | [M] |
| R2344 | D0GB180JA008 | 18 1/16W | [M] |
| R2345 | D0GB152JA007 | 1.5K 1/16W | [M] |
| R2346 | D0GB332JA007 | 3.3K 1/16W | [M] |
| R2347 | D0GB1R0JA007 | 1 1/16W | [M] |
| R2351 | D0GB180JA008 | 18 1/16W | [M] |
| R2352 | D0GB180JA008 | 18 1/16W | [M] |
| R2353 | D0GB180JA008 | 18 1/16W | [M] |
| R2354 | D0GB180JA008 | 18 1/16W | [M] |
| R2355 | D0GB274JA007 | 270K 1/16W | [M] |
| R2356 | D0GB184JA007 | 180K 1/16W | [M] |
| R2357 | D0GB104JA007 | 100K 1/16W | [M] |
| R2358 | D0GB103JA007 | 10K 1/16W | [M] |
| R2411 | D0GB471JA007 | 470 1/16W | [M] |
| R2412 | D0GB103JA007 | 10K 1/16W | [M] |
| R2413 | D0GB104JA007 | 100K 1/16W | [M] |
| R2415 | D0GB182JA007 | 1.8K 1/16W | [M] |
| R2416 | D0GB471JA007 | 470 1/16W | [M] |
| R2417 | D0GB103JA007 | 10K 1/16W | [M] |
| R2418 | D0GB104JA007 | 100K 1/16W | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| R2427 | D0GB123JA007 | 12K 1/16W | [M] |
| R2441 | D0GB180JA008 | 18 1/16W | [M] |
| R2442 | D0GB180JA008 | 18 1/16W | [M] |
| R2443 | D0GB180JA008 | 18 1/16W | [M] |
| R2444 | D0GB180JA008 | 18 1/16W | [M] |
| R2445 | D0GB152JA007 | 1.5K 1/16W | [M] |
| R2446 | D0GB332JA007 | 3.3K 1/16W | [M] |
| R2447 | D0GB1R0JA007 | 1 1/16W | [M] |
| R2448 | D0GB154JA007 | 150K 1/16W | [M] |
| R2451 | D0GB180JA008 | 18 1/16W | [M] |
| R2452 | D0GB180JA008 | 18 1/16W | [M] |
| R2453 | D0GB180JA008 | 18 1/16W | [M] |
| R2454 | D0GB180JA008 | 18 1/16W | [M] |
| R2455 | D0GB274JA007 | 270K 1/16W | [M] |
| R2456 | D0GB184JA007 | 180K 1/16W | [M] |
| R2457 | D0GB104JA007 | 100K 1/16W | [M] |
| R2458 | D0GB103JA007 | 10K 1/16W | [M] |
| R2501 | D0GB334JA007 | 330K 1/16W | [M] |
| R2502 | D0GB823JA007 | 82K 1/16W | [M] |
| R2503 | D0GB272JA007 | 2.7K 1/16W | [M] |
| R2504 | D0GB101JA007 | 100 1/16W | [M] |
| R2505 | D0GBR00JA008 | 0 1/16W | [M] |
| R2506 | D0GB333JA007 | 33K 1/16W | [M] |
| R2507 | D0GB104JA007 | 100K 1/16W | [M] |
| R2508 | D0GB102JA007 | 1K 1/16W | [M] |
| R2509 | D0GB561JA007 | 560 1/16W | [M] |
| R2510 | ERG2S271E | 270 1/32W | [M] |
| R2511 | D0GB472JA008 | 4.7K 1/16W | [M] |
| R2512 | D0GB563JA007 | 56K 1/16W | [M] |
| R2513 | D0GB103JA007 | 10K 1/16W | [M] |
| R2514 | D0GB103JA007 | 10K 1/16W | [M] |
| R2515 | D0GB334JA007 | 330K 1/16W | [M] |
| R2555 | D0GB102JA007 | 1K 1/16W | [M] |
| R2556 | D0GB102JA007 | 1K 1/16W | [M] |
| R2557 | D0GB102JA007 | 1K 1/16W | [M] |
| R2558 | D0GB332JA007 | 3.3K 1/16W | [M] |
| R2559 | D0GB183JA008 | 18K 1/16W | [M] |
| R2560 | D0GB332JA007 | 3.3K 1/16W | [M] |
| R2561 | D0GB332JA007 | 3.3K 1/16W | [M] |
| R2562 | D0GB223JA007 | 22K 1/16W | [M] |
| R2563 | D0GB223JA007 | 22K 1/16W | [M] |
| R2564 | D0GB392JA007 | 3.9K 1/16W | [M] |
| R2565 | D0GB102JA007 | 1K 1/16W | [M] |
| R2566 | D0GB471JA007 | 470 1/16W | [M] |
| R2567 | D0GB183JA008 | 18K 1/16W | [M] |
| R2568 | D0GB104JA007 | 100K 1/16W | [M] |
| R2569 | D0GB102JA007 | 1K 1/16W | [M] |
| R2570 | D0GB102JA007 | 1K 1/16W | [M] |
| R2571 | D0GB102JA007 | 1K 1/16W | [M] |
| R2584 | D0GB334JA007 | 330K 1/16W | [M] |
| R2585 | D0GB334JA007 | 330K 1/16W | [M] |
| R2586 | D0GB122JA007 | 1.2K 1/16W | [M] |
| R2587 | D0GB122JA007 | 1.2K 1/16W | [M] |
| R2588 | D0GB184JA007 | 180K 1/16W | [M] |
| R2590 | D0GB102JA007 | 1K 1/16W | [M] |
| R2672 | D0GB103JA007 | 10K 1/16W | [M] |
| R2673 | D0GB473JA007 | 47K 1/16W | [M] |
| R2674 | D0GB473JA007 | 47K 1/16W | [M] |
| R2676 | D0GB103JA007 | 10K 1/16W | [M] |
| R2677 | D0GB241JA008 | 240 1/16W | [M] |
| R2701 | D0GB102JA007 | 1K 1/16W | [M] |
| R2702 | D0GB102JA007 | 1K 1/16W | [M] |
| R2703 | D0GB221JA041 | 220 1/16W | [M] |
| R2704 | D0GB221JA041 | 220 1/16W | [M] |
| R2705 | D0GB221JA041 | 220 1/16W | [M] |
| R2706 | D0GB221JA041 | 220 1/16W | [M] |
| R2707 | D0GB332JA007 | 3.3K 1/16W | [M] |
| R2708 | D0GB331JA008 | 330 1/16W | [M] |
| R2711 | D0GB102JA007 | 1K 1/16W | [M] |
| R2712 | D0GB102JA007 | 1K 1/16W | [M] |
| R2721 | D0GB103JA007 | 10K 1/16W | [M] |
| R2722 | D0GB103JA007 | 10K 1/16W | [M] |
| R2723 | D0GB102JA007 | 1K 1/16W | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| R2731 | D0GBR00JA008 | 0 1/16W | [M] |
| R2801 | D0GB101JA007 | 100 1/16W | [M] |
| R2802 | D0GB103JA007 | 10K 1/16W | [M] |
| R2804 | D0GBR00JA008 | 0 1/16W | [M] |
| R2808 | D0GBR00JA008 | 0 1/16W | [M] |
| R2815 | D0GB101JA007 | 100 1/16W | [M] |
| R2816 | D0GB101JA007 | 100 1/16W | [M] |
| R2817 | D0GB472JA007 | 4.7K 1/16W | [M] |
| R2818 | D0GB472JA007 | 4.7K 1/16W | [M] |
| R2825 | D0GB101JA007 | 100 1/16W | [M] |
| R2826 | D0GB473JA007 | 47K 1/16W | [M] |
| R2827 | D0GB473JA007 | 47K 1/16W | [M] |
| R2828 | D0GB473JA007 | 47K 1/16W | [M] |
| R2829 | D0GB473JA007 | 47K 1/16W | [M] |
| R2830 | D0GB473JA007 | 47K 1/16W | [M] |
| R2831 | D0GB473JA007 | 47K 1/16W | [M] |
| R2832 | D0GB473JA007 | 47K 1/16W | [M] |
| R2833 | D0GB101JA007 | 100 1/16W | [M] |
| R2834 | D0GB101JA007 | 100 1/16W | [M] |
| R2835 | D0GB101JA007 | 100 1/16W | [M] |
| R2836 | D0GB101JA007 | 100 1/16W | [M] |
| R2837 | D0GB101JA007 | 100 1/16W | [M] |
| R2838 | D0GB101JA007 | 100 1/16W | [M] |
| R2839 | D0GB101JA007 | 100 1/16W | [M] |
| R2840 | D0GB101JA007 | 100 1/16W | [M] |
| R2841 | D0GB101JA007 | 100 1/16W | [M] |
| R2842 | D0GB101JA007 | 100 1/16W | [M] |
| R2843 | D0GB101JA007 | 100 1/16W | [M] |
| R2846 | D0GB104JA007 | 100K 1/16W | [M] |
| R2847 | D0GB104JA007 | 100K 1/16W | [M] |
| R2848 | D0GB101JA007 | 100 1/16W | [M] |
| R2850 | D0GB103JA007 | 10K 1/16W | [M] |
| R2851 | D0GB473JA007 | 47K 1/16W | [M] |
| R2852 | D0GB223JA007 | 22K 1/16W | [M] |
| R2853 | D0GB101JA007 | 100 1/16W | [M] |
| R2871 | D0GB223JA007 | 22K 1/16W | [M] |
| R2873 | D0GB223JA007 | 22K 1/16W | [M] |
| R2874 | D0GB472JA007 | 4.7K 1/16W | [M] |
| R2881 | D0GB221JA041 | 220 1/16W | [M] |
| R2882 | D0GB106JA007 | 10M 1/16W | [M] |
| R2883 | D0GB334JA007 | 330K 1/16W | [M] |
| R2886 | D0GB105JA007 | 1M 1/16W | [M] |
| R2894 | D0GB473JA007 | 47K 1/16W | [M] |
| R2895 | D0GB101JA007 | 100 1/16W | [M] |
| R2903 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R2912 | D0GB101JA007 | 100 1/16W | [M] |
| R2914 | D0GB101JA007 | 100 1/16W | [M] |
| R2916 | D0GB101JA007 | 100 1/16W | [M] |
| R2922 | D0GB103JA007 | 10K 1/16W | [M] |
| R2936 | D0GB102JA007 | 1K 1/16W | [M] |
| R2937 | D0GB103JA007 | 10K 1/16W | [M] |
| R2950 | D0GB474JA041 | 470K 1/16W | [M] |
| R2951 | D0GB474JA041 | 470K 1/16W | [M] |
| R2952 | D0GB102JA007 | 1K 1/16W | [M] |
| R2965 | D0GB472JA007 | 4.7K 1/16W | [M] |
| R2966 | D0GB472JA007 | 4.7K 1/16W | [M] |
| R3200 | D0GB472JA007 | 4.7K 1/16W | [M] |
| R3202 | D0GB472JA007 | 4.7K 1/16W | [M] |
| R3204 | D0GBR00JA008 | 0.BR 1/16W | [M] |
| R3205 | D0GB104JA007 | 100K 1/16W | [M] |
| R3206 | D0GB103JA007 | 10K 1/16W | [M] |
| R3209 | D0GB103JA007 | 10K 1/16W | [M] |
| R3211 | D0GB101JA007 | 100 1/16W | [M] |
| R3212 | D0GB101JA007 | 100 1/16W | [M] |
| R3213 | D0GB101JA007 | 100 1/16W | [M] |
| R3214 | D0GB101JA007 | 100 1/16W | [M] |
| R3435 | D0GB104JA007 | 100K 1/16W | [M] |
| R3436 | D0GB104JA007 | 100K 1/16W | [M] |
| R3439 | D0GB221JA007 | 220 1/16W | [M] |
| R3440 | D0GB101JA007 | 100 1/16W | [M] |
| R3441 | D0GB101JA007 | 100 1/16W | [M] |
| R3442 | D0GB102JA007 | 1K 1/16W | [M] |
| R3443 | D0GB102JA007 | 1K 1/16W | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| R3444 | D0GB332JA007 | 3.3K 1/16W | [M] |
| R3445 | D0GB332JA007 | 3.3K 1/16W | [M] |
| R3446 | D0GB274JA007 | 270K 1/16W | [M] |
| R3447 | D0GB274JA007 | 270K 1/16W | [M] |
| R3448 | D0GB103JA007 | 10K 1/16W | [M] |
| R3449 | D0GB103JA007 | 10K 1/16W | [M] |
| R3450 | D0GB223JA007 | 22K 1/16W | [M] |
| R3451 | D0GB223JA007 | 22K 1/16W | [M] |
| R3452 | D0GB102JA007 | 1K 1/16W | [M] |
| R3453 | D0GB102JA007 | 1K 1/16W | [M] |
| R3455 | D0GB103JA007 | 10K 1/16W | [M] |
| R3500 | D0GB472JA007 | 4.7K 1/16W | [M] |
| R3501 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R3502 | D0GB562JA007 | 5.6K 1/16W | [M] |
| R3503 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R3504 | D0GB334JA007 | 330K 1/16W | [M] |
| R3505 | D0AF270JA039 | 27 1/4W | [M] |
| R3506 | D0GB563JA007 | 56K 1/16W | [M] |
| R3507 | D0GB101JA007 | 100 1/16W | [M] |
| R3508 | D0GB563JA007 | 56K 1/16W | [M] |
| R3509 | ERJ3GEYJ824V | 820K 1/16W | [M] |
| R3510 | D0GB473JA007 | 47K 1/16W | [M] |
| R3514 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R3521 | D0GB101JA007 | 100 1/16W | [M] |
| R3522 | D0GB682JA007 | 6.8K 1/16W | [M] |
| R3523 | D0GB102JA007 | 1K 1/16W | [M] |
| R3524 | D0GB102JA007 | 1K 1/16W | [M] |
| R3526 | D0GB103JA007 | 10K 1/16W | [M] |
| R3529 | D0GB103JA007 | 10K 1/16W | [M] |
| R3535 | D0GB472JA007 | 4.7K 1/16W | [M] |
| R3536 | D0GB224JA007 | 220K 1/16W | [M] |
| R3537 | D0GB472JA007 | 4.7K 1/16W | [M] |
| R3538 | D0GB224JA007 | 220K 1/16W | [M] |
| R3601 | D0GB332JA007 | 3.3K 1/16W | [M] |
| R3602 | D0GB473JA007 | 47K 1/16W | [M] |
| R3611 | D0GB332JA007 | 3.3K 1/16W | [M] |
| R3612 | D0GB473JA007 | 47K 1/16W | [M] |
| R3710 | D0GB103JA007 | 10K 1/16W | [M] |
| R3713 | D0GBR00JA008 | 0 1/16W | [M] |
| R3715 | D0GBR00JA008 | 0 1/16W | [M] |
| R3716 | D0GB103JA007 | 10K 1/16W | [M] |
| R3720 | D0GB102JA007 | 1K 1/16W | [M] |
| R3721 | D0GB102JA007 | 1K 1/16W | [M] |
| R3801 | D0GB102JA007 | 1K 1/16W | [M] |
| R3802 | D0GB471JA007 | 470 1/16W | [M] |
| R3803 | D0GB332JA007 | 3.3K 1/16W | [M] |
| R3804 | D0GB471JA007 | 470 1/16W | [M] |
| R3805 | D0GB332JA007 | 3.3K 1/16W | [M] |
| R3807 | D0GBR00JA007 | 0 1/16W | [M] |
| R3808 | D0GB102JA007 | 1K 1/16W | [M] |
| R3809 | D0GB102JA007 | 1K 1/16W | [M] |
| R3811 | D0GB103JA007 | 10K 1/16W | [M] |
| R3812 | D0GB103JA007 | 10K 1/16W | [M] |
| R3813 | D0GB103JA007 | 10K 1/16W | [M] |
| R3814 | D0GB103JA007 | 10K 1/16W | [M] |
| R3820 | D0GBR00JA007 | 0 1/16W | [M] |
| R3821 | D0GB102JA007 | 1K 1/16W | [M] |
| R3827 | D0GBR00JA007 | 0 1/16W | [M] |
| R3840 | ERJ3GEY0R00V | 0 1/16W | [M] |
| R3841 | D0GB472JA007 | 4.7K 1/16W | [M] |
| R5000 | D0GB562JA007 | 5.6K 1/16W | [M] |
| R5001 | D0GB562JA007 | 5.6K 1/16W | [M] |
| R5002 | D0GB562JA007 | 5.6K 1/16W | [M] |
| R5003 | D0GB562JA007 | 5.6K 1/16W | [M] |
| R5004 | ERJ8GEYJ100V | 10 1/8W | [M] |
| R5005 | ERJ8GEYJ100V | 10 1/8W | [M] |
| R5006 | ERJ1TYJ220U | 22 1/8W | [M] |
| R5007 | ERJ1TYJ220U | 22 1/8W | [M] |
| R5008 | D0GB101JA007 | 100 1/16W | [M] |
| R5010 | ERJ8GEYJ100V | 10 1/8W | [M] |
| R5011 | ERJ8GEYJ100V | 10 1/8W | [M] |
| R5030 | D0GB562JA007 | 5.6K 1/16W | [M] |
| R5031 | D0GB562JA007 | 5.6K 1/16W | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| R5032 | D0GB562JA007 | 5.6K 1/16W | [M] |
| R5033 | D0GB562JA007 | 5.6K 1/16W | [M] |
| R5034 | D0GB562JA007 | 5.6K 1/16W | [M] |
| R5035 | D0GB562JA007 | 5.6K 1/16W | [M] |
| R5036 | D0GB562JA007 | 5.6K 1/16W | [M] |
| R5037 | D0GB562JA007 | 5.6K 1/16W | [M] |
| R5091 | D0GB473JA007 | 47K 1/16W | [M] |
| R5092 | D0GB473JA007 | 47K 1/16W | [M] |
| R5093 | D0GB104JA007 | 100K 1/16W | [M] |
| R5101 | D0GB103JA007 | 10K 1/16W | [M] |
| R5103 | D0C1103JA020 | 10K 1W | [M] |
| R5104 | D0GB562JA007 | 5.6K 1/16W | [M] |
| R5105 | D0GB103JA007 | 10K 1/16W | [M] |
| R5106 | D0GB223JA007 | 22K 1/16W | [M] |
| R5107 | D0GB561JA007 | 560 1/16W | [M] |
| R5108 | D0GB470JA008 | 47 1/16W | [M] |
| R5109 | D0GB102JA007 | 1K 1/16W | [M] |
| R5110 | D0GB222JA007 | 2.2K 1/16W | [M] |
| R5111 | D0GB104JA007 | 100K 1/16W | [M] |
| R5114 | D0GB101JA007 | 100 1/16W | [M] |
| R5118 | D0GB562JA007 | 5.6K 1/16W | [M] |
| R5119 | D0GB562JA007 | 5.6K 1/16W | [M] |
| R5123 | D0C14R7JA020 | 4.7 1W | [M] |
| R5126 | D0GB102JA007 | 1K 1/16W | [M] |
| R5127 | D0GB471JA007 | 470 1/16W | [M] |
| R5132 | DOAF331JA039 | 330 1/4W | [M] |
| R5133 | D0GB103JA007 | 10K 1/16W | [M] |
| R5134 | D0GB122JA007 | 1.2K 1/16W | [M] |
| R5135 | D0AE2R2JA048 | 2.2 1/4W | [M] |
| R5136 | D0AE2R2JA048 | 2.2 1/4W | [M] |
| R5137 | D0AE2R2JA048 | 2.2 1/4W | [M] |
| R5146 | D0GB562JA007 | 5.6K 1/16W | [M] |
| R5147 | DOAF2R2JA039 | 2.2 1/4W | [M] |
| R5148 | D0GB562JA007 | 5.6K 1/16W | [M] |
| R5149 | D0GB102JA007 | 1K 1/16W | [M] |
| R5150 | D0GB224JA007 | 220K 1/16W | [M] |
| R5151 | D0GB392JA007 | 3.9K 1/16W | [M] |
| R5152 | D0GBR00JA008 | 0 1/16W | [M] |
| R5153 | D0GB562JA007 | 5.6K 1/16W | [M] |
| R5154 | D0GB101JA007 | 100 1/16W | [M] |
| R5173 | D0GB102JA007 | 1K 1/16W | [M] |
| R5174 | D0GBR00JA008 | 0 1/16W | [M] |
| R5191 | D0GB473JA007 | 47K 1/16W | [M] |
| R5192 | D0GB473JA007 | 47K 1/16W | [M] |
| R5200 | ERJ8GEYJ100V | 10 1/8W | [M] |
| R5201 | ERJ8GEYJ100V | 10 1/8W | [M] |
| R5204 | D0GB101JA007 | 100 1/16W | [M] |
| R5205 | D0GB562JA007 | 5.6K 1/16W | [M] |
| R5206 | D0GB562JA007 | 5.6K 1/16W | [M] |
| R5207 | D0GB562JA007 | 5.6K 1/16W | [M] |
| R5208 | D0GB562JA007 | 5.6K 1/16W | [M] |
| R5209 | ERJ1TYJ220U | 22 1/8W | [M] |
| R5210 | ERJ8GEYJ100V | 10 1/8W | [M] |
| R5211 | ERJ8GEYJ100V | 10 1/8W | [M] |
| R5217 | ERJ1TYJ220U | 22 1/8W | [M] |
| R5221 | D0GB102JA007 | 1K 1/16W | [M] |
| R5222 | D0GB102JA007 | 1K 1/16W | [M] |
| R5300 | ERJ1TYJ220U | 22 1/8W | [M] |
| R5302 | ERJ8GEYJ100V | 10 1/8W | [M] |
| R5304 | D0GB101JA007 | 100 1/16W | [M] |
| R5305 | ERJ8GEYJ100V | 10 1/8W | [M] |
| R5306 | D0GB562JA007 | 5.6K 1/16W | [M] |
| R5307 | D0GB562JA007 | 5.6K 1/16W | [M] |
| R5308 | D0GB562JA007 | 5.6K 1/16W | [M] |
| R5309 | D0GB562JA007 | 5.6K 1/16W | [M] |
| R5310 | ERJ8GEYJ100V | 10 1/8W | [M] |
| R5311 | ERJ8GEYJ100V | 10 1/8W | [M] |
| R5312 | D0GB563JA007 | 56K 1/16W | [M] |
| R5313 | D0GB154JA007 | 150K 1/16W | [M] |
| R5319 | ERJ1TYJ220U | 22 1/8W | [M] |
| R5400 | ERJ1TYJ220U | 22 1/8W | [M] |
| R5402 | ERJ8GEYJ100V | 10 1/8W | [M] |
| R5403 | D0GB562JA007 | 5.6K 1/16W | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| R5404 | D0GB101JA007 | 100 1/16W | [M] |
| R5405 | ERJ8GEYJ100V | 10 1/8W | [M] |
| R5410 | ERJ8GEYJ100V | 10 1/8W | [M] |
| R5411 | ERJ8GEYJ100V | 10 1/8W | [M] |
| R5412 | D0GB224JA007 | 220K 1/16W | [M] |
| R5413 | D0GB104JA007 | 100K 1/16W | [M] |
| R5416 | D0GB103JA007 | 10K 1/16W | [M] |
| R5417 | D0GB822JA007 | 8.2K 1/16W | [M] |
| R5419 | ERJ1TYJ220U | 22 1/8W | [M] |
| R5504 | D0GB220JA007 | 22 1/16W | [M] |
| R5505 | D0GB101JA007 | 100 1/16W | [M] |
| R5506 | D0GB105JA007 | 1M 1/16W | [M] |
| R5507 | D0GB105JA007 | 1M 1/16W | [M] |
| R5508 | D0GB105JA007 | 1M 1/16W | [M] |
| R5510 | D0GB274JA007 | 270K 1/16W | [M] |
| R5512 | D0GBR00JA008 | 0.BR 1/16W | [M] |
| R5513 | D0GB334JA007 | 330K 1/16W | [M] |
| R5518 | D0GB103JA007 | 10K 1/16W | [M] |
| R5521 | D0GB274JA007 | 270K 1/16W | [M] |
| R5523 | D0GB102JA007 | 1K 1/16W | [M] |
| R5525 | D0GB102JA007 | 1K 1/16W | [M] |
| R5951 | D0GB332JA007 | 3.3K 1/16W | [M] |
| R5952 | D0AE472JA048 | 4.7K 1/4W | [M] |
| R5954 | ERJ3GEYJ824V | 820K 1/16W | [M] |
| R5955 | D0AE472JA048 | 4.7K 1/4W | [M] |
| R5957 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R5958 | ERJ3GEYJ103V | 10K 1/16W | [M] |
| R5960 | ERJ3GEYJ822V | 8.2K 1/16W | [M] |
| R5961 | D0GB151JA007 | 150 1/16W | [M] |
| R5963 | D0AF820JA039 | 82 1/4W | [M] |
| R6102 | D0GB122JA007 | 1.2K 1/16W | [M] |
| R6103 | D0GB152JA007 | 1.5K 1/16W | [M] |
| R6104 | D0GB222JA007 | 2.2K 1/16W | [M] |
| R6105 | D0GB332JA007 | 3.3K 1/16W | [M] |
| R6106 | D0GB472JA007 | 4.7K 1/16W | [M] |
| R6107 | D0GB682JA008 | 6.8K 1/16W | [M] |
| R6108 | D0GB153JA007 | 15K 1/16W | [M] |
| R6199 | D0GB103JA007 | 10K 1/16W | [M] |
| R6202 | D0GB122JA007 | 1.2K 1/16W | [M] |
| R6203 | D0GB152JA007 | 1.5K 1/16W | [M] |
| R6204 | D0GB222JA007 | 2.2K 1/16W | [M] |
| R6205 | D0GB332JA007 | 3.3K 1/16W | [M] |
| R6206 | D0GB472JA007 | 4.7K 1/16W | [M] |
| R6209 | D0GB473JA007 | 47K 1/16W | [M] |
| R6210 | D0GB122JA007 | 1.2K 1/16W | [M] |
| R6211 | D0GB473JA007 | 47K 1/16W | [M] |
| R6212 | D0GB103JA007 | 10K 1/16W | [M] |
| R6302 | D0GB122JA007 | 1.2K 1/16W | [M] |
| R6303 | D0GB152JA007 | 1.5K 1/16W | [M] |
| R6304 | D0GB222JA007 | 2.2K 1/16W | [M] |
| R6305 | D0GB332JA007 | 3.3K 1/16W | [M] |
| R6306 | D0GB472JA007 | 4.7K 1/16W | [M] |
| R6307 | D0GB682JA008 | 6.8K 1/16W | [M] |
| R6308 | D0GB153JA007 | 15K 1/16W | [M] |
| R6309 | D0GB222JA007 | 2.2K 1/16W | [M] |
| R6310 | D0GB152JA007 | 1.5K 1/16W | [M] |
| R6311 | D0GB473JA007 | 47K 1/16W | [M] |
| R6399 | D0GB103JA007 | 10K 1/16W | [M] |
| R6458 | D0GB332JA007 | 3.3K 1/16W | [M] |
| R6481 | D0GBR00JA008 | 0 1/16W | [M] |
| R6491 | D0GB223JA007 | 22K 1/16W | [M] |
| R6492 | D0GB123JA007 | 12K 1/16W | [M] |
| R6493 | D0GB103JA007 | 10K 1/16W | [M] |
| R6494 | D0GB103JA007 | 10K 1/16W | [M] |
| R6501 | D0GB561JA007 | 560 1/16W | [M] |
| R6502 | D0GB334JA007 | 330K 1/16W | [M] |
| R6503 | D0GB330JA007 | 33 1/16W | [M] |
| R6504 | D0GB122JA007 | 1.2K 1/16W | [M] |
| R6505 | D0GB334JA007 | 330K 1/16W | [M] |
| R6506 | D0GB222JA007 | 2.2K 1/16W | [M] |
| R6507 | D0GB102JA007 | 1K 1/16W | [M] |
| R6509 | D0GB101JA007 | 100 1/16W | [M] |
| R6512 | D0GB221JA007 | 220 1/16W | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| R6513 | D0GB221JA007 | 220 1/16W | [M] |
| R6515 | D0GB221JA007 | 220 1/16W | [M] |
| R6516 | D0GB221JA007 | 220 1/16W | [M] |
| R6517 | D0GB221JA007 | 220 1/16W | [M] |
| R6518 | D0GB221JA007 | 220 1/16W | [M] |
| R6601 | D0GB471JA007 | 470 1/16W | [M] |
| R6602 | D0GB471JA007 | 470 1/16W | [M] |
| R6603 | D0GB221JA007 | 220 1/16W | [M] |
| R6604 | D0GB221JA007 | 220 1/16W | [M] |
| R6605 | D0GB823JA007 | 82K 1/16W | [M] |
| R6631 | ERD2FCVG470T | 47 1/4W | [M] |
| R6632 | ERD2FCVG470T | 47 1/4W | [M] |
| R6701 | D0GB221JA007 | 220 1/16W | [M] |
| R6702 | D0GB221JA007 | 220 1/16W | [M] |
| R6703 | D0GB221JA007 | 220 1/16W | [M] |
| R6704 | D0GB221JA007 | 220 1/16W | [M] |
| R6706 | D0GB221JA007 | 220 1/16W | [M] |
| R6707 | D0GB221JA007 | 220 1/16W | [M] |
| R6751 | D0GBR00JA008 | 0 1/16W | [M] |
| R6753 | D0GBR00JA008 | 0 1/16W | [M] |
| R6763 | D0GB102JA007 | 1K 1/16W | [M] |
| R7111 | D0GB103JA008 | 10K 1/16W | [M] |
| R7211 | ERJ3GEYJ823V | 82K 1/16W | [M] |
| R7212 | ERJ3GEYJ821V | 820 1/16W | [M] |
| R7214 | ERJ3GEYJ471V | 470 1/16W | [M] |
| R7217 | D0GB102JA008 | 1K 1/16W | [M] |
| R7218 | D0GB102JA008 | 1K 1/16W | [M] |
| R7220 | ERJ3GEYJ105V | 1M 1/16W | [M] |
| R7221 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R7253 | ERJ3GEYJ100V | 10 1/16W | [M] |
| R7254 | D0GB102JA008 | 1K 1/16W | [M] |
| R7315 | ERJ3GEYJ332V | 3.3K 1/16W | [M] |
| R7323 | ERJ3GEYJ332V | 3.3K 1/16W | [M] |
| R7325 | ERJ3GEYJ331V | 330 1/16W | [M] |
| R7327 | D0GB102JA008 | 1K 1/16W | [M] |
| R7328 | D0GB103JA008 | 10K 1/16W | [M] |
| R7329 | D0GB102JA008 | 1K 1/16W | [M] |
| R7330 | ERJ3GEYJ562V | 5.6K 1/16W | [M] |
| R7331 | D0GB223JA008 | 22K 1/16W | [M] |
| R7332 | D0GB102JA008 | 1K 1/16W | [M] |
| R7335 | ERJ3GEYJ101V | 100 1/16W | [M] |
| R7336 | ERJ3GEYJ100V | 10 1/16W | [M] |
| R7339 | D0GB102JA008 | 1K 1/16W | [M] |
| R7349 | ERJ3GEYJ183V | 18K 1/16W | [M] |
| R7601 | ERJ3GEYJ4R7V | 4.7 1/16W | [M] |
| R7650 | ERJ3GEYJ5R6V | 5.6 1/16W | [M] |
| | | CAPACITORS | |
| C901 | F1G1C104A083 | 0.1 16V | [M] |
| C902 | F1G1C104A083 | 0.1 16V | [M] |
| C903 | F1G1C104A083 | 0.1 16V | [M] |
| C904 | F2A1C100A234 | 10 16V | [M] |
| C905 | F1G1C104A083 | 0.1 16V | [M] |
| C906 | F2A1C100A234 | 10 16V | [M] |
| C907 | F1G1H180A565 | 18P 50V | [M] |
| C908 | F1G1H220A565 | 22P 50V | [M] |
| C911 | F1G1C104A083 | 0.1 16V | [M] |
| C912 | F1G1C104A083 | 0.1 16V | [M] |
| C913 | F1G1C104A083 | 0.1 16V | [M] |
| C914 | F1G1C104A083 | 0.1 16V | [M] |
| C915 | F2A1C470A234 | 47 16V | [M] |
| C931 | F2A1C100A234 | 10 16V | [M] |
| C951 | F1G1C104A083 | 0.1 16V | [M] |
| C952 | F1G1C104A083 | 0.1 16V | [M] |
| C953 | F2A0J101A245 | 100 6.3V | [M] |
| C1002 | ECEA1HKN2R2B | 2.2 50V | [M] |
| C1006 | ECA1HAK010XB | 1 50V | [M] |
| C1007 | F0A2A472A034 | 4700P 100V | [M] |
| C1008 | ECEA1HKA010B | 1 50V | [M] |
| C1009 | ECEA1CKA470B | 47 16V | [M] |
| C1010 | ECA1EAM101XB | 100 25V | [M] |
| C1011 | ECQV1H473JL3 | 0.047 50V | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| C1012 | F1H1H102A219 | 1000P 50V | [M] |
| C1013 | F1H1H102A219 | 1000P 50V | [M] |
| C1014 | F1H1H102A219 | 1000P 50V | [M] |
| C1015 | F1H1H102A219 | 1000P 50V | [M] |
| C1016 | F1H1H222A013 | 2200P 50V | [M] |
| C1017 | F1H1H222A013 | 2200P 50V | [M] |
| C1018 | F1H1H332A013 | 3300P 50V | [M] |
| C1019 | F1H1H102A219 | 1000P 50V | [M] |
| C1020 | F1H1H471A219 | 470P 50V | [M] |
| C1021 | F1H1H471A219 | 470P 50V | [M] |
| C1022 | F1H1H102A219 | 1000P 50V | [M] |
| C1023 | F1H1H102A219 | 1000P 50V | [M] |
| C1026 | ECA0JAK470XB | 47 6.3V | [M] |
| C1027 | F1H1H102A219 | 1000P 50V | [M] |
| C1030 | ECEA1AKA101B | 100 10V | [M] |
| C1031 | ECEA1AKA101B | 100 10V | [M] |
| C1032 | F1C1C183A023 | 0.018 16V | [M] |
| C1033 | F1C1C183A023 | 0.018 16V | [M] |
| C1034 | ECA1HAK3R3XB | 3.3 50V | [M] |
| C1035 | ECA1HAK3R3XB | 3.3 50V | [M] |
| C1036 | F1H1C333A071 | 0.033 16V | [M] |
| C1037 | ECA1HAK3R3XB | 3.3 50V | [M] |
| C1038 | F1H1H221A748 | 220P 50V | [M] |
| C1039 | F1H1H221A748 | 220P 50V | [M] |
| C1040 | ECA1CAK100XB | 10 16V | [M] |
| C1041 | ECA1CAK100XB | 10 16V | [M] |
| C1042 | ECA1CAK220XB | 22 16V | [M] |
| C1043 | ECA1HAK4R7XB | 4.7 50V | [M] |
| C1044 | ECA1AAK330XB | 33 10V | [M] |
| C1045 | ECA1AAK220XB | 22 10V | [M] |
| C1046 | ECA1CAM221XB | 220 16V | [M] |
| C1049 | F1H1H332A013 | 3300P 50V | [M] |
| C1050 | F1H1H332A013 | 3300P 50V | [M] |
| C1056 | ECA1CAK100XB | 10 16V | [M] |
| C1057 | F1H1H102A219 | 1000P 50V | [M] |
| C1058 | F1H1H102A219 | 1000P 50V | [M] |
| C1059 | F1H1H103A219 | 0.01 50V | [M] |
| C2006 | F1H1H102A219 | 1000P 50V | [M] |
| C2112 | ECJ1VB1C105K | 1 16V | [M] |
| C2113 | F1H1H152A219 | 1500P 50V | [M] |
| C2121 | ECJ1VB1H392K | 3900P 50V | [M] |
| C2122 | ECJ1VB1C105K | 1 16V | [M] |
| C2132 | ECJ1VB1C105K | 1 16V | [M] |
| C2140 | F1H1H102A219 | 1000P 50V | [M] |
| C2142 | ECJ1VB1C105K | 1 16V | [M] |
| C2149 | ECJ1VC1H101K | 100P 50V | [M] |
| C2152 | ECJ1VB1C105K | 1 16V | [M] |
| C2153 | D0GB272JA007 | 2.7K 1/16W | [M] |
| C2163 | ECJ1VB1H562K | 5600P 50V | [M] |
| C2171 | F1H1A154A001 | 0.15 10V | [M] |
| C2172 | ECJ1VB1C563K | 0.056 16V | [M] |
| C2173 | F1H1H103A219 | 0.01 50V | [M] |
| C2174 | F1H1H103A219 | 0.01 50V | [M] |
| C2175 | ECJ1VB1H222K | 2200P 50V | [M] |
| C2175 | ECJ1VB1H332K | 3300P 50V | [M] |
| C2181 | ECJ1VB1C105K | 1 16V | [M] |
| C2182 | ECJ1VB1C224K | 0.22 16V | [M] |
| C2183 | ECJ1VB1C224K | 0.22 16V | [M] |
| C2184 | ECJ1VB1C105K | 1 16V | [M] |
| C2191 | ECEA1EKA4R7B | 4.7 25V | [M] |
| C2192 | F1H1C104A041 | 0.1 16V | [M] |
| C2193 | ECJ1VB1C105K | 1 16V | [M] |
| C2194 | F1H1A154A001 | 0.15 10V | [M] |
| C2195 | ECJ1VB1C474K | 0.47 16V | [M] |
| C2201 | ECJ1VB1C105K | 1 16V | [M] |
| C2202 | ECJ1VB1C105K | 1 16V | [M] |
| C2212 | ECJ1VB1C105K | 1 16V | [M] |
| C2213 | F1H1H152A219 | 1500P 50V | [M] |
| C2221 | ECJ1VB1H392K | 3900P 50V | [M] |
| C2222 | ECJ1VB1C105K | 1 16V | [M] |
| C2232 | ECJ1VB1C105K | 1 16V | [M] |
| C2240 | F1H1H102A219 | 1000P 50V | [M] |
| C2242 | ECJ1VB1C105K | 1 16V | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| C2249 | ECJ1VC1H101K | 100P 50V | [M] |
| C2252 | ECJ1VB1C105K | 1 16V | [M] |
| C2253 | D0GB272JA007 | 2.7K 1/16W | [M] |
| C2263 | ECA1HAK0R1XB | 0.1 50V | [M] |
| C2271 | F1H1A154A001 | 0.15 10V | [M] |
| C2272 | ECJ1VB1C563K | 0.056 16V | [M] |
| C2273 | F1H1H103A219 | 0.01 50V | [M] |
| C2274 | F1H1H103A219 | 0.01 50V | [M] |
| C2275 | ECJ1VB1H222K | 2200P 50V | [M] |
| C2275 | ECJ1VB1H332K | 3300P 50V | [M] |
| C2281 | ECJ1VB1C105K | 1 16V | [M] |
| C2282 | ECJ1VB1C224K | 0.22 16V | [M] |
| C2283 | ECJ1VB1H473K | 0.047 50V | [M] |
| C2284 | ECJ1VB1C105K | 1 16V | [M] |
| C2301 | ECJ1VB1C105K | 1 16V | [M] |
| C2311 | ECA1HAK010XB | 1 50V | [M] |
| C2313 | ECJ1VB1H471K | 470P 50V | [M] |
| C2314 | F1H1H103A219 | 0.01 50V | [M] |
| C2315 | F2A1C220A234 | 22 16V | [M] |
| C2316 | F2A1C220A234 | 22 16V | [M] |
| C2324 | ECJ1VB1C105K | 1 16V | [M] |
| C2326 | F2A1C220A234 | 22 16V | [M] |
| C2341 | F1H1H102A219 | 1000P 50V | [M] |
| C2342 | ECJ1VB1C105K | 1 16V | [M] |
| C2343 | ECJ1VB1C474K | 0.47 16V | [M] |
| C2344 | ECJ1VB1C474K | 0.47 16V | [M] |
| C2345 | F1H1H104A783 | 0.1 50V | [M] |
| C2346 | ECJ1VB1H682K | 6800P 50V | [M] |
| C2401 | ECJ1VB1C105K | 1 16V | [M] |
| C2411 | ECA1HAK010XB | 1 50V | [M] |
| C2413 | ECJ1VB1H471K | 470P 50V | [M] |
| C2414 | F1H1H103A219 | 0.01 50V | [M] |
| C2415 | F2A1C220A234 | 22 16V | [M] |
| C2424 | ECJ1VB1C105K | 1 16V | [M] |
| C2441 | F1H1H102A219 | 1000P 50V | [M] |
| C2442 | ECJ1VB1C105K | 1 16V | [M] |
| C2443 | ECJ1VB1C474K | 0.47 16V | [M] |
| C2444 | ECJ1VB1C474K | 0.47 16V | [M] |
| C2445 | F1H1H104A783 | 0.1 50V | [M] |
| C2446 | ECJ1VB1H682K | 6800P 50V | [M] |
| C2501 | ECJ1VB1C105K | 1 16V | [M] |
| C2503 | ECJ1VB1C105K | 1 16V | [M] |
| C2505 | F2A1C100A180 | 10 16V | [M] |
| C2507 | ECJ1VB1C224K | 0.22 16V | [M] |
| C2509 | F2A1C330A234 | 33 16V | [M] |
| C2511 | ECEA1EKN220B | 22 25V | [M] |
| C2513 | F1H1H104A783 | 0.1 50V | [M] |
| C2514 | F2A1C101A180 | 100 16V | [M] |
| C2551 | F2A1C100A180 | 10 16V | [M] |
| C2552 | F1H1H101A230 | 100P 50V | [M] |
| C2553 | F1H1H103A219 | 0.01 50V | [M] |
| C2554 | ECJ1VB1C105K | 1 16V | [M] |
| C2556 | ECJ1VB1H153K | 0.015 50V | [M] |
| C2558 | ECJ1VB1C224K | 0.22 16V | [M] |
| C2560 | ECA1HAK3R3XB | 3.3 50V | [M] |
| C2561 | ECJ1VB1C105K | 1 16V | [M] |
| C2562 | ECJ1VB1H473K | 0.047 50V | [M] |
| C2581 | F2A0J101A181 | 100 6.3V | [M] |
| C2582 | F2A0J101A181 | 100 6.3V | [M] |
| C2583 | F2A0J101A181 | 100 6.3V | [M] |
| C2584 | F1H1H221A748 | 220P 50V | [M] |
| C2585 | F1H1H221A748 | 220P 50V | [M] |
| C2588 | F1H1C104A041 | 0.1 16V | [M] |
| C2589 | ECJ1VB1C474K | 0.47 16V | [M] |
| C2673 | F1H1H101A230 | 100P 50V | [M] |
| C2674 | F1H1H103A219 | 0.01 50V | [M] |
| C2675 | F1H1H101A230 | 100P 50V | [M] |
| C2676 | F2A1C220A234 | 22 16V | [M] |
| C2678 | F1H1H103A219 | 0.01 50V | [M] |
| C2701 | F1H1H103A219 | 0.01 50V | [M] |
| C2702 | F2A0J101A181 | 100 6.3V | [M] |
| C2703 | F1H1H470A230 | 47P 50V | [M] |
| C2704 | F1H1H470A230 | 47P 50V | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| C2711 | F1H1H104A783 | 0.1 50V | [M] |
| C2712 | F2A1C101A234 | 100 16V | [M] |
| C2721 | ECEA1AKA101B | 100 10V | [M] |
| C2722 | F1H1H104A783 | 0.1 50V | [M] |
| C2731 | F2A1C101A234 | 100 16V | [M] |
| C2802 | ECA1HAK3R3XB | 3.3 50V | [M] |
| C2803 | ECJ1VB1C105K | 1 16V | [M] |
| C2821 | F1H1H101A230 | 100P 50V | [M] |
| C2853 | F1H1C104A041 | 0.1 16V | [M] |
| C2854 | F2A0J221A181 | 220 6.3V | [M] |
| C2871 | F1H1H331A013 | 330P 50V | [M] |
| C2872 | F1H1C223A001 | 0.022 16V | [M] |
| C2874 | F1H1H331A013 | 330P 50V | [M] |
| C2882 | ECJ1VC1H180J | 18P 50V | [M] |
| C2883 | ECJ1VC1H180J | 18P 50V | [M] |
| C2901 | F1H1C104A041 | 0.1 16V | [M] |
| C2902 | F2A1C100A180 | 10 16V | [M] |
| C2904 | ECA0JM101B | 100 6.3V | [M] |
| C2905 | F2A0J101A181 | 100 6.3V | [M] |
| C2906 | F1H1H101A230 | 100P 50V | [M] |
| C2907 | F1H1H101A230 | 100P 50V | [M] |
| C2908 | F1H1H101A230 | 100P 50V | [M] |
| C2909 | F1H1C104A041 | 0.1 16V | [M] |
| C2911 | F1H1C104A041 | 0.1 16V | [M] |
| C2912 | F1H1C104A041 | 0.1 16V | [M] |
| C2913 | F1H1C104A041 | 0.1 16V | [M] |
| C2914 | F1H1C104A041 | 0.1 16V | [M] |
| C2943 | F2A1H2R2A234 | 2.2 50V | [M] |
| C3200 | ECA1HAK010XB | 1 50V | [M] |
| C3201 | F1H1H104A783 | 0.1 50V | [M] |
| C3202 | ECA1HAK010XB | 1 50V | [M] |
| C3203 | F1H1H104A783 | 0.1 50V | [M] |
| C3204 | ECA1HAK010XB | 1 50V | [M] |
| C3205 | F1H1H104A783 | 0.1 50V | [M] |
| C3206 | ECA1HAK010XB | 1 50V | [M] |
| C3207 | F1H1H104A783 | 0.1 50V | [M] |
| C3500 | ECA1EAK220XB | 22 25V | [M] |
| C3501 | F1H1H101A230 | 100P 50V | [M] |
| C3502 | F1H1H101A230 | 100P 50V | [M] |
| C3600 | ECA1CAK101XB | 100 16V | [M] |
| C3601 | ECA0JAK470XB | 47 6.3V | [M] |
| C3602 | ECA1CAK330XB | 33 16V | [M] |
| C3603 | ECA0JAK221XB | 220 6.3V | [M] |
| C3604 | F1H1H101A230 | 100P 50V | [M] |
| C3609 | ECA1CAK100XB | 10 16V | [M] |
| C3610 | F1H1H103A219 | 0.01 50V | [M] |
| C3611 | ECA1HAK010XB | 1 50V | [M] |
| C3612 | F2A1HR22A234 | 22 50V | [M] |
| C3613 | ECA1HAK220XB | 22 50V | [M] |
| C3614 | F1H1C223A001 | 0.022 16V | [M] |
| C3615 | F2A1HR22A234 | 22 50V | [M] |
| C3616 | ECA1HAK010XB | 1 50V | [M] |
| C3617 | ECA1HAK220XB | 22 50V | [M] |
| C3618 | F1H1H101A230 | 100P 50V | [M] |
| C3619 | F2A1H4R7A234 | 4.7 50V | [M] |
| C3705 | F1H1H101A230 | 100P 50V | [M] |
| C3710 | ECA1AAK330XB | 33 10V | [M] |
| C3717 | F1J0J106A014 | 10 6.3V | [M] |
| C3800 | D0GBR00JA007 | 0 1/16W | [M] |
| C3801 | ECA1HAK100XB | 10 50V | [M] |
| C3804 | ECA1HAK100XB | 10 50V | [M] |
| C3805 | D0GBR00JA007 | 0 1/16W | [M] |
| C3806 | F1H1H101A230 | 100P 50V | [M] |
| C3807 | F1H1H101A230 | 100P 50V | [M] |
| C3808 | ECJ1VB1H562K | 5600P 50V | [M] |
| C3809 | ECJ1VB1H562K | 5600P 50V | [M] |
| C3810 | F1H1H104A783 | 0.1 50V | [M] |
| C3812 | ECA1CAK101XB | 100 16V | [M] |
| C3820 | F1H1H104A013 | 0.1 50V | [M] |
| C3822 | F2A1H1010039 | 100 50V | [M] |
| C5000 | F1H1H102A219 | 1000P 50V | [M] |
| C5001 | F1H1H102A219 | 1000P 50V | [M] |
| C5002 | ECJ1VB1A474K | 0.47 10V | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| C5003 | ECJ1VB1A474K | 0.47 10V | [M] |
| C5004 | ECJ1VB1A474K | 0.47 10V | [M] |
| C5005 | ECJ1VB1A474K | 0.47 10V | [M] |
| C5006 | F1H1H331A013 | 330P 50V | [M] |
| C5007 | F1H1H331A013 | 330P 50V | [M] |
| C5008 | ECJ1VB1H153K | 0.015 50V | [M] |
| C5009 | ECJ1VB1H153K | 0.015 50V | [M] |
| C5010 | ECJ2VC2A221J | 220P 100V | [M] |
| C5011 | ECJ2VC2A221J | 220P 100V | [M] |
| C5012 | ECJ2VC2A221J | 220P 100V | [M] |
| C5013 | ECJ2VC2A221J | 220P 100V | [M] |
| C5014 | ECQV1H824JL3 | 0.82 50V | [M] |
| C5015 | ECQV1H824JL3 | 0.82 50V | [M] |
| C5016 | F1H1H104A783 | 0.1 50V | [M] |
| C5017 | F1H1H104A783 | 0.1 50V | [M] |
| C5018 | F1K2A1040007 | 0.1 100V | [M] |
| C5019 | F1H1H104A783 | 0.1 50V | [M] |
| C5020 | F1H1H104A783 | 0.1 50V | [M] |
| C5021 | F1H1H104A783 | 0.1 50V | [M] |
| C5022 | F1H1H104A783 | 0.1 50V | [M] |
| C5023 | F1K2A1040007 | 0.1 100V | [M] |
| C5024 | F1H1H104A783 | 0.1 50V | [M] |
| C5025 | F1H1H104A783 | 0.1 50V | [M] |
| C5026 | F1K2A1040007 | 0.1 100V | [M] |
| C5027 | F1H1H104A783 | 0.1 50V | [M] |
| C5028 | F1H1H104A783 | 0.1 50V | [M] |
| C5029 | F1K2A1040007 | 0.1 100V | [M] |
| C5030 | ECJ1VC1H221J | 220P 50V | [M] |
| C5031 | ECJ1VB1A474K | 0.47 10V | [M] |
| C5032 | F1H1H102A219 | 1000P 50V | [M] |
| C5040 | ECA2AM470B | 47 100V | [M] |
| C5050 | F1H1H104A783 | 0.1 50V | [M] |
| C5051 | F1H1H104A783 | 0.1 50V | [M] |
| C5052 | F1H1H104A783 | 0.1 50V | [M] |
| C5053 | F1H1H104A783 | 0.1 50V | [M] |
| C5055 | F2A1J1010036 | 100 63V | [M] |
| C5091 | ECA1HAM470XB | 47 50V | [M] |
| C5101 | ECA1VM332B | 3300 35V | [M] |
| C5102 | F2A1C100A234 | 10 16V | [M] |
| C5103 | ECA2AM100B | 10 100V | [M] |
| C5104 | ECA1VM332B | 3300 35V | [M] |
| C5105 | ECA1AAK221XB | 220 10V | [M] |
| C5106 | ECJ1VB1A474K | 0.47 10V | [M] |
| C5107 | ECJ1VB1A474K | 0.47 10V | [M] |
| C5109 | ECA1EAM101XB | 100 25V | [M] |
| C5110 | ECA1EAM101XB | 100 25V | [M] |
| C5113 | ECA1HM330B | 33 50V | [M] |
| C5114 | F1H1H104A783 | 0.1 50V | [M] |
| C5115 | F1H1H104A783 | 0.1 50V | [M] |
| C5116 | F1H1H104A783 | 0.1 50V | [M] |
| C5117 | F1H1H102A219 | 1000P 50V | [M] |
| C5119 | F1H1H102A219 | 1000P 50V | [M] |
| C5120 | ECJ1VB1A474K | 0.47 10V | [M] |
| C5121 | ECJ1VB1A474K | 0.47 10V | [M] |
| C5122 | ECA1HAM470XB | 47 50V | [M] |
| C5125 | F2A1C101A234 | 100 16V | [M] |
| C5131 | ECA0JAK101XB | 100 6.3V | [M] |
| C5132 | ECA1CAK101XB | 100 16V | [M] |
| C5133 | ECA0JAK101XB | 100 6.3V | [M] |
| C5134 | F1H1H104A783 | 0.1 50V | [M] |
| C5135 | F1H1H104A783 | 0.1 50V | [M] |
| C5151 | F1H1H102A219 | 1000P 50V | [M] |
| C5152 | F1H1H102A219 | 1000P 50V | [M] |
| C5154 | F1H1H102A219 | 1000P 50V | [M] |
| C5155 | F1H1H102A219 | 1000P 50V | [M] |
| C5157 | F1H1H103A219 | 0.01 50V | [M] |
| C5159 | F1H1H103A219 | 0.01 50V | [M] |
| C5171 | ECA1JM222B | 2200 63V | [M] |
| C5172 | ECA1JM222B | 2200 63V | [M] |
| C5185 | F1H1H104A783 | 0.1 50V | [M] |
| C5186 | F1H1H104A783 | 0.1 50V | [M] |
| C5187 | F1H1H104A783 | 0.1 50V | [M] |
| C5188 | F1H1H104A783 | 0.1 50V | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| C5200 | F1H1H104A783 | 0.1 50V | [M] |
| C5201 | ECJ1VB1H153K | 0.015 50V | [M] |
| C5202 | ECJ1VB1A474K | 0.47 10V | [M] |
| C5203 | ECJ2VC2A221J | 220P 100V | [M] |
| C5204 | ECJ1VB1H153K | 0.015 50V | [M] |
| C5205 | ECJ2VC2A221J | 220P 100V | [M] |
| C5206 | F1H1H104A783 | 0.1 50V | [M] |
| C5207 | F1K2A1040007 | 0.1 100V | [M] |
| C5208 | F1H1H104A783 | 0.1 50V | [M] |
| C5209 | F1H1H104A783 | 0.1 50V | [M] |
| C5210 | F1K2A1040007 | 0.1 100V | [M] |
| C5211 | ECJ2VC2A221J | 220P 100V | [M] |
| C5212 | ECJ1VC1H221J | 220P 50V | [M] |
| C5213 | F1H1H104A783 | 0.1 50V | [M] |
| C5214 | F1H1H104A783 | 0.1 50V | [M] |
| C5215 | F1K2A1040007 | 0.1 100V | [M] |
| C5216 | F1H1H331A013 | 330P 50V | [M] |
| C5217 | F1H1H104A783 | 0.1 50V | [M] |
| C5218 | ECJ2VC2A221J | 220P 100V | [M] |
| C5219 | F1K2A1040007 | 0.1 100V | [M] |
| C5220 | F1H1H104A783 | 0.1 50V | [M] |
| C5221 | F1H1H102A219 | 1000P 50V | [M] |
| C5222 | ECJ1VB1A474K | 0.47 10V | [M] |
| C5223 | ECJ1VB1A474K | 0.47 10V | [M] |
| C5224 | F1H1H331A013 | 330P 50V | [M] |
| C5225 | ECQV1H824JL3 | 0.82 50V | [M] |
| C5226 | F1H1H104A783 | 0.1 50V | [M] |
| C5227 | F1H1H104A783 | 0.1 50V | [M] |
| C5228 | ECQV1H824JL3 | 0.82 50V | [M] |
| C5231 | F1H1H102A219 | 1000P 50V | [M] |
| C5232 | ECJ1VB1A474K | 0.47 10V | [M] |
| C5233 | ECJ1VB1A474K | 0.47 10V | [M] |
| C5234 | F1H1H102A219 | 1000P 50V | [M] |
| C5240 | ECA2AM470B | 47 100V | [M] |
| C5250 | F1H1H104A783 | 0.1 50V | [M] |
| C5251 | F1H1H104A783 | 0.1 50V | [M] |
| C5252 | ECA1CAK100XB | 10 16V | [M] |
| C5300 | ECQV1H824JL3 | 0.82 50V | [M] |
| C5301 | F1H1H104A783 | 0.1 50V | [M] |
| C5302 | F1H1H104A783 | 0.1 50V | [M] |
| C5303 | F1H1H104A783 | 0.1 50V | [M] |
| C5304 | F1H1H331A013 | 330P 50V | [M] |
| C5305 | F1H1H104A783 | 0.1 50V | [M] |
| C5306 | F1H1H104A783 | 0.1 50V | [M] |
| C5307 | ECJ2VC2A221J | 220P 100V | [M] |
| C5308 | F1K2A1040007 | 0.1 100V | [M] |
| C5309 | F1H1H104A783 | 0.1 50V | [M] |
| C5310 | F1K2A1040007 | 0.1 100V | [M] |
| C5311 | ECJ2VC2A221J | 220P 100V | [M] |
| C5312 | F1H1H331A013 | 330P 50V | [M] |
| C5313 | F1H1H104A783 | 0.1 50V | [M] |
| C5314 | ECJ1VB1C474K | 0.47 16V | [M] |
| C5315 | ECJ1VC1H102J | 1000P 50V | [M] |
| C5316 | F1H1H104A783 | 0.1 50V | [M] |
| C5317 | ECJ1VB1A474K | 0.47 10V | [M] |
| C5318 | F1H1H104A783 | 0.1 50V | [M] |
| C5319 | F1K2A1040007 | 0.1 100V | [M] |
| C5320 | F1K2A1040007 | 0.1 100V | [M] |
| C5321 | ECJ1VB1C474K | 0.47 16V | [M] |
| C5322 | ECJ1VB1H153K | 0.015 50V | [M] |
| C5323 | ECJ1VC1H221J | 220P 50V | [M] |
| C5324 | ECJ1VB1H153K | 0.015 50V | [M] |
| C5325 | ECJ2VC2A221J | 220P 100V | [M] |
| C5326 | ECJ2VC2A221J | 220P 100V | [M] |
| C5327 | F1H1H104A783 | 0.1 50V | [M] |
| C5328 | ECQV1H824JL3 | 0.82 50V | [M] |
| C5331 | ECJ1VC1H102J | 1000P 50V | [M] |
| C5332 | ECJ1VB1C474K | 0.47 16V | [M] |
| C5333 | ECJ1VC1H102J | 1000P 50V | [M] |
| C5334 | ECJ1VB1A474K | 0.47 10V | [M] |
| C5350 | F1H1H104A783 | 0.1 50V | [M] |
| C5351 | F1H1H104A783 | 0.1 50V | [M] |
| C5352 | ECA1CAK100XB | 10 16V | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| C5400 | ECQV1H824JL3 | 0.82 50V | [M] |
| C5401 | F1H1H104A783 | 0.1 50V | [M] |
| C5402 | F1H1H104A783 | 0.1 50V | [M] |
| C5403 | F1H1H104A783 | 0.1 50V | [M] |
| C5404 | F1H1H331A013 | 330P 50V | [M] |
| C5405 | F1H1H104A783 | 0.1 50V | [M] |
| C5406 | F1H1H104A783 | 0.1 50V | [M] |
| C5407 | ECJ2VC2A221J | 220P 100V | [M] |
| C5408 | F1K2A1040007 | 0.1 100V | [M] |
| C5409 | F1H1H104A783 | 0.1 50V | [M] |
| C5410 | F1K2A1040007 | 0.1 100V | [M] |
| C5411 | ECJ2VC2A221J | 220P 100V | [M] |
| C5412 | F1H1H331A013 | 330P 50V | [M] |
| C5413 | F1H1H104A783 | 0.1 50V | [M] |
| C5416 | F1H1H104A783 | 0.1 50V | [M] |
| C5418 | F1H1H104A783 | 0.1 50V | [M] |
| C5419 | F1K2A1040007 | 0.1 100V | [M] |
| C5420 | F1K2A1040007 | 0.1 100V | [M] |
| C5421 | ECJ1VB1A474K | 0.47 10V | [M] |
| C5422 | ECJ1VB1H153K | 0.015 50V | [M] |
| C5423 | ECJ1VC1H221J | 220P 50V | [M] |
| C5424 | ECJ1VB1H153K | 0.015 50V | [M] |
| C5425 | ECJ2VC2A221J | 220P 100V | [M] |
| C5426 | ECJ2VC2A221J | 220P 100V | [M] |
| C5427 | F1H1H104A783 | 0.1 50V | [M] |
| C5428 | ECQV1H824JL3 | 0.82 50V | [M] |
| C5431 | F1H1H102A219 | 1000P 50V | [M] |
| C5440 | ECA2AM470B | 47 100V | [M] |
| C5445 | F1H1H104A783 | 0.1 50V | [M] |
| C5446 | F1H1H104A783 | 0.1 50V | [M] |
| C5447 | F1H1H104A783 | 0.1 50V | [M] |
| C5448 | F1H1H104A783 | 0.1 50V | [M] |
| C5449 | F1H1H104A783 | 0.1 50V | [M] |
| C5450 | F1H1H104A783 | 0.1 50V | [M] |
| C5508 | F2A1V4710036 | 470 35V | [M] |
| C5509 | F2A1V4710036 | 470 35V | [M] |
| C5510 | F2A1V4710036 | 470 35V | [M] |
| C5511 | F2A1V4710036 | 470 35V | [M] |
| C5512 | F2A1V102A083 | 1000 35V | [M] |
| C5513 | F2A1V102A083 | 1000 35V | [M] |
| C5514 | F1H1H104A783 | 0.1 50V | [M] |
| C5515 | F1H1H104A783 | 0.1 50V | [M] |
| C5516 | F2A1V4710036 | 470 35V | [M] |
| C5517 | F2A1V4710036 | 470 35V | [M] |
| C5518 | F1H1H104A783 | 0.1 50V | [M] |
| C5519 | F1H1H104A783 | 0.1 50V | [M] |
| C5520 | F1H1H104A783 | 0.1 50V | [M] |
| C5521 | F1H1H104A783 | 0.1 50V | [M] |
| C5522 | F1H1H104A783 | 0.1 50V | [M] |
| C5523 | F1H1H104A783 | 0.1 50V | [M] |
| C5524 | F1H1H104A783 | 0.1 50V | [M] |
| C5525 | F1H1H104A783 | 0.1 50V | [M] |
| C5540 | ECA2AM470B | 47 100V | [M] |
| C5550 | F1H1H103A219 | 0.01 50V | [M] |
| C5551 | F1H1H391A013 | 390P 50V | [M] |
| C5552 | F1H1H391A013 | 390P 50V | [M] |
| C5553 | F1H1H101A230 | 100P 50V | [M] |
| C5554 | F1H1H104A783 | 0.1 50V | [M] |
| C5555 | ECJ3YB1C106K | 10 16V | [M] |
| C5556 | F1H1H103A219 | 0.01 50V | [M] |
| C5557 | F1H1H101A230 | 100P 50V | [M] |
| C5558 | F1H1H470A230 | 47P 50V | [M] |
| C5559 | F1H1H470A230 | 47P 50V | [M] |
| C5900 | F1H1H103A219 | 0.01 50V | [M] |
| C5901 | F1H1H104A783 | 0.1 50V | [M] |
| C5920 | ECA1JM222B | 2200 63V | [M] |
| C5940 | ECA1JM222B | 2200 63V | [M] |
| C5950 | ECA1EM472E | 4700 25V | [M] |
| C5951 | F1H1H103A219 | 0.01 50V | [M] |
| C5952 | ECA1AAK470XB | 47 10V | [M] |
| C5953 | F1H1H103A219 | 0.01 50V | [M] |
| C5954 | F1H1H103A219 | 0.01 50V | [M] |
| C5955 | ECA1HM220B | 22 50V | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| C5956 | ECA1JM222B | 2200 63V | [M] |
| C5957 | ECA1HAK100XB | 10 50V | [M] |
| C5958 | F1H1H103A219 | 0.01 50V | [M] |
| C5959 | F1H1H103A219 | 0.01 50V | [M] |
| C5961 | F2A1E2210050 | 220P 25V | [M] |
| C5962 | ECA1CM221B | 220 16V | [M] |
| C5963 | ECEA1EKA4R7B | 4.7 25V | [M] |
| C5964 | F1H1H103A219 | 0.01 50V | [M] |
| C5972 | ECQE2104KF3 | 0.1 250V | [M] |
| C5973 | ECQE2104KF3 | 0.1 250V | [M] |
| C5974 | ECQE2104KF3 | 0.1 250V | [M] |
| C6481 | ECA1CAK220XB | 22 16V | [M] |
| C6491 | F1H1H101A230 | 100P 50V | [M] |
| C6492 | F1H1H101A230 | 100P 50V | [M] |
| C6501 | F1H1H103A219 | 0.01 50V | [M] |
| C6502 | ECJ1VB1C105K | 1 16V | [M] |
| C6503 | ECJ1VB1H473K | 0.047 50V | [M] |
| C6504 | F1H1H104A783 | 0.1 50V | [M] |
| C6505 | ECJ1VB1H473K | 0.047 50V | [M] |
| C6506 | F1H1H103A219 | 0.01 50V | [M] |
| C6507 | ECJ1VC1H102J | 1000P 50V | [M] |
| C6508 | ECA1CAK101XB | 100 16V | [M] |
| C6509 | F1H1H104A783 | 0.1 50V | [M] |
| C6510 | D0GB102JA007 | 1000 100V | [M] |
| C6511 | F1H1H101A230 | 100P 50V | [M] |
| C6521 | F1H1H103A219 | 0.01 50V | [M] |
| C6551 | F1H1H103A219 | 0.01 50V | [M] |
| C6552 | F1H1H103A219 | 0.01 50V | [M] |
| C6553 | F1H1H103A219 | 0.01 50V | [M] |
| C6601 | F1H1H101A230 | 100P 50V | [M] |
| C6602 | ECJ1VC1H102J | 1000P 50V | [M] |
| C6603 | F1H1H101A230 | 100P 50V | [M] |
| C6604 | F1H1H101A230 | 100P 50V | [M] |
| C6623 | F2A1H220A182 | 22 50V | [M] |
| C6631 | F2A1H220A182 | 22 50V | [M] |
| C6632 | F2A1H220A182 | 22 50V | [M] |
| C6635 | F2A1H2R2A234 | 2.2 50V | [M] |
| C6636 | F1H1H101A230 | 100P 50V | [M] |
| C6751 | F1H1H103A219 | 0.01 50V | [M] |
| C6752 | F1H1H103A219 | 0.01 50V | [M] |
| C6753 | F1H1H103A219 | 0.01 50V | [M] |
| C6754 | F1H1H103A219 | 0.01 50V | [M] |
| C6755 | F1H1H103A219 | 0.01 50V | [M] |
| C6756 | F2A1H2R2A013 | 2.2 50V | [M] |
| C7101 | F2A1C100A234 | 10 16V | [M] |
| C7102 | F1H1A474A025 | 0.47 10V | [M] |
| C7107 | ECJ1VB1H223K | 0.022 50V | [M] |
| C7142 | ECJ1VB1H332K | 3300P 50V | [M] |
| C7154 | ECJ1VB1C104K | 0.1 16V | [M] |
| C7155 | ECJ1VB1C104K | 0.1 16V | [M] |
| C7161 | ECJ1VB1C104K | 0.1 16V | [M] |
| C7164 | ECJ2FF1A106Z | 10 10V | [M] |
| C7165 | ECJ2FF1A106Z | 10 10V | [M] |
| C7166 | F1H1H103A219 | 0.01 50V | [M] |
| C7203 | F2A0J221A200 | 220 6.3V | [M] |
| C7204 | ECJ1VB1C104K | 0.1 16V | [M] |
| C7216 | ECJ1VB1H681K | 680P 50V | [M] |
| C7217 | ECJ1VB1C104K | 0.1 16V | [M] |
| C7218 | ECJ1VB1C823K | 0.082 16V | [M] |
| C7223 | F2A1H4R70037 | 4.7 50V | [M] |
| C7225 | F1H1H102A219 | 1000P 50V | [M] |
| C7226 | F1H1H102A219 | 1000P 50V | [M] |
| C7227 | ECA1HAK010XI | 1 50V | [M] |
| C7228 | ECA1HAK010XI | 1 50V | [M] |
| C7230 | ECJ1VB1C104K | 0.1 16V | [M] |
| C7231 | F2A0J221A200 | 220 6.3V | [M] |
| C7232 | F2A0J221A200 | 220 6.3V | [M] |
| C7233 | F1H1C104A008 | 0.1 16V | [M] |
| C7234 | ECJ1VB1C104K | 0.1 16V | [M] |
| C7235 | F2A1C100A133 | 10 16V | [M] |
| C7241 | F1H1H102A219 | 1000P 50V | [M] |
| C7243 | F1H1C104A008 | 0.1 16V | [M] |
| C7244 | ECJ1VB1C153K | 0.015 16V | [M] |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|----------|--------------|-------------------------|---------|
| C7253 | F1H1H471A219 | 470P 50V | [M] |
| C7263 | ECJ1VB1C104K | 0.1 16V | [M] |
| C7264 | ECJ1VB1C104K | 0.1 16V | [M] |
| C7315 | F1H1A474A025 | 0.47 10V | [M] |
| C7334 | ECEA1AKA221I | 220 10V | [M] |
| C7335 | F1H1C104A008 | 0.1 16V | [M] |
| C7338 | ECJ1VB1C563K | 0.056 16V | [M] |
| C7339 | ECJ1VB1C183K | 0.018 16V | [M] |
| C7352 | ECJ1VB1C183K | 0.018 16V | [M] |
| C7601 | ECEA0JKA330I | 33 6.3V | [M] |
| C7613 | ECJ1VB1C104K | 0.1 16V | [M] |
| C7614 | F2A0J101A198 | 100 6.3V | [M] |
| C7626 | ECJ1VB1C104K | 0.1 16V | [M] |
| C7670 | ECJ1VB1C104K | 0.1 16V | [M] |