

# Service Manual

Compact Stereo System

Model No. **SC-HC3P**

**SC-HC3PC**

Product Color: (S)...Silver Type



SC HC3



Remote  
Control  
Transmitter

## 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.

## IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by  in the Schematic Diagrams, Circuit Board Diagrams, Exploded Views and 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.

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# 1 Safety Precautions

## 1.1. General Guidelines

1. 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.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, carry out the following leakage current checks to prevent the customer from being exposed to shock hazards.

(This "Safety Precaution" is applied only in U.S.A.)

1. Before servicing, unplug the power cord to prevent an electric shock.
2. When replacing parts, use only manufacturer's recommended components for safety.
3. Check the condition of the power cord. Replace if wear or damage is evident.
4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.
5. Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.

### 1.1.1. Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. measure the resistance value, with an ohmmeter 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  $5.2M\Omega$ . When the exposed metal does not have a return path to the chassis, the reading must be  $\infty$

### 1.1.2. Leakage Current Hot Check

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. 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.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. 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. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

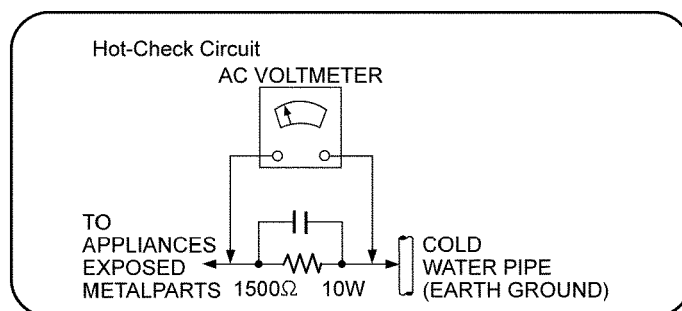


Figure. 1

## 1.2. Before Repair and Adjustment

Disconnect AC power, discharge unit AC Capacitors as such C702, C710, C725, C727, C728 and C730 through a 10W, 1W resistor to ground.

Caution : 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 120V, at 60Hz in NO SIGNAL mode (at volume min in FM Tuner mode) should be ~250 mA.

## 1.3. Caution For Fuse Replacement

(For English)

### CAUTION:

Replace with the same type fuse:

(Manufacturer: Hollyland, Type: 51MS, F751, 3A 125V)

(For Canadian French)

### ATTENTION:

Utiliser un fusible de rechange de même type:

(Fabricant: Hollyland, Type: 51MS, F751, 3A 125V)

## 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 outlines 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  $\triangle$  in the Schematic Diagrams, Exploded View & 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

| Safety      | Ref. No. | Part No.     | Part Name & Description    | Remarks |
|-------------|----------|--------------|----------------------------|---------|
| $\triangle$ | 6        | REXX0746-1   | RED WIRE (AC INLET-SMPS)   |         |
| $\triangle$ | 7        | REXX0747-1   | BLACK WIRE (AC INLET-SMPS) |         |
| $\triangle$ | 9        | REXX0752-1   | BLUE WIRE (AC INLET-SMPS)  |         |
| $\triangle$ | 30       | RGNX0850C-1  | NAME PLATE                 | PC      |
| $\triangle$ | 30       | RGNX0850H-1  | NAME PLATE                 | P       |
| $\triangle$ | 101      | REXX0771     | WHITE WIRE (JW708)         |         |
| $\triangle$ | 102      | REXX0772     | BROWN WIRE (JW707)         |         |
| $\triangle$ | 300      | RAE0165T-V   | TRAVERSE ASS'Y             | (RTL)   |
| $\triangle$ | A2       | K2CB2CB00021 | AC CORD                    |         |
| $\triangle$ | A3       | RQTX0250-1P  | O/I BOOK (En)              |         |
| $\triangle$ | A3       | RQTX0251-1C  | O/I BOOK (Cf)              | PC      |
| $\triangle$ | A3       | RQTX0254-1M  | O/I BOOK (Sp)              | P       |
| $\triangle$ | L702     | G0B103G00015 | LINE FILTER                |         |
| $\triangle$ | L703     | G0B103G00015 | LINE FILTER                |         |
| $\triangle$ | L751     | ELF15N035AN  | LINE FILTER                |         |
| $\triangle$ | T581     | G4D1A0000117 | MAIN TRANSFORMER           |         |
| $\triangle$ | T701     | G4DYA0000139 | SUB TRANSFORMER            |         |
| $\triangle$ | T751     | ETS19AB221AG | SWITCHING TRANSFORMER      |         |
| $\triangle$ | Z752     | ERZVA5Z471   | ZNR                        |         |
| $\triangle$ | PC701    | B3PBA0000454 | PHOTO COUPLER              |         |
| $\triangle$ | PC751    | B3PBA0000454 | PHOTO COUPLER              |         |



| Safety | Ref. No. | Part No.     | Part Name & Description | Remarks |
|--------|----------|--------------|-------------------------|---------|
| ⚠      | RY701    | K6B1AEA00017 | RELAY                   |         |
| ⚠      | F751     | K5D302AQ0003 | FUSE                    |         |
| ⚠      | FP581    | K5H7512A0010 | PROTECTOR               |         |
| ⚠      | P751     | K2AB2B000007 | AC INLET                |         |
| ⚠      | TH701    | D4CAA5R10001 | THERMISTOR              |         |
| ⚠      | C702     | ECQU2A104MLC | 0.1uF                   |         |
| ⚠      | C710     | F1BAF471A013 | 470pF                   |         |
| ⚠      | C716     | ECWH10152JV  | 1500uF                  |         |
| ⚠      | C725     | ECQU2A104MLC | 0.1uF                   |         |
| ⚠      | C727     | F1BAF471A013 | 470pF                   |         |
| ⚠      | C728     | F1BAF471A013 | 470pF                   |         |
| ⚠      | C729     | F1BAF1020020 | 1000pF                  |         |
| ⚠      | C730     | F1BAF1020020 | 1000pF                  |         |
| ⚠      | C736     | ECQU2A104MLC | 0.1uF                   |         |
| ⚠      | PCB5     | REPX0755G    | SMPS P.C.B.             | (RTL)   |
| ⚠      | PCB15    | REPX0755G    | AC IN P.C.B.            | (RTL)   |

## 2 Warning

### 2.1. Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static 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 electrostatic discharge (ESD).

1. Immediately before handling any semiconductor component or semiconductor-equipped 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 equipped 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 sufficient 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 bodily 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).

## 2.2. Precaution of Laser Diode

### 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.

### Caution:

This product utilizes a laser diode with the unit turned "on", invisible laser radiation is emitted from the pickup lens.

Wavelength: 795 nm (CD)

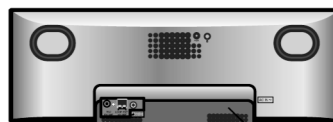
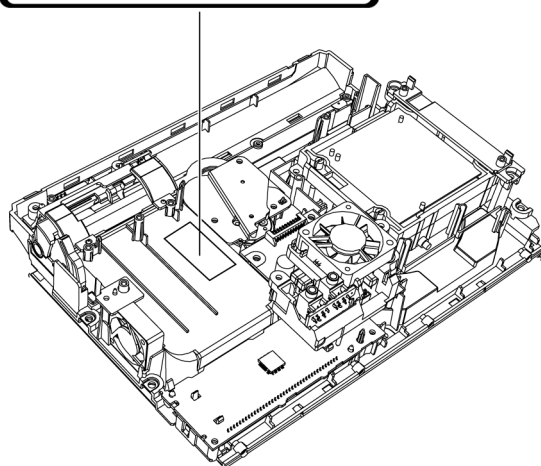
Maximum output radiation power from pickup: 100  $\mu$ W/VDE

Laser radiation from the pickup unit is safety level, but be sure the followings:

1. Do not disassemble the pickup unit, since radiation from exposed laser diode is dangerous.
2. Do not adjust the variable resistor on the pickup unit. It was already adjusted.
3. Do not look at the focus lens using optical instruments.
4. Recommend not to look at pickup lens for a long time.

|           |                                                                                                                                |
|-----------|--------------------------------------------------------------------------------------------------------------------------------|
| CAUTION   | - CLASS 1M INVISIBLE LASER RADIATION WHEN OPEN.<br>DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1+A2/Class 1M       |
| VARNING   | - KLASS 1M OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD.<br>BETRÄKTA EJ STRÅLEN DIREKT GENOM OPTISKT INSTRUMENT.             |
| FORSIGTIG | - USYNLIG LASERSTRÅLNING KLASSE 1M, NÄR LÅGET ER ÅBENT.<br>UNDGÅ AT SE UDGE PÅ MED OPTISKE INSTRUMENTER.                       |
| VARO!     | - AVIITTAESSA OLETÄTTINÄ LUKKAN 1M NÄKYMÄTÖNTÄ LASERSÄTELYÄ.<br>ÄLÄ KATSO OPTISELLÄ LAITTEELLA SUORAAN SÄTEESEEN.              |
| VORSICHT  | - UNSICHTBARE LASERSTRÄHLUNG KLASSE 1M, WENN ABDECKUNG GEÖFFNET.<br>NICHT DIREKT MIT OPTISCHEN INSTRUMENTEN BETRACHTEN.        |
| ATTENTION | - RAYONNEMENT LASER INVISIBLE, CLASSE 1M, EN CAS D'OUVERTURE.<br>NE PAS REGARDER DIRECTEMENT À L'AIDE D'INSTRUMENTS D'OPTIQUE. |
| 注意        | - ここを開くと不可視レーザー光が出ます。<br>ビームを見たり、触れたりしないでください。                                                                                 |
| 注意        | - 打开时有不可见激光辐射。避免光束照射。                                                                                                          |

Inside of product



Back of product

CLASS 1  
LASER PRODUCT

2.3. Service caution based on Legal restrictions

2.3.1. 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.<br>(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%

## 3 Service Navigation

### 3.1. Service Information

This service manual contains technical information which will allow service personnel's to understand and service this model. Please place orders using the parts list and not the drawing reference numbers.

If the circuit is changed or modified, this information will be followed by supplement service manual to be filed with original service manual.

#### 1. Micro-processor:

- Micro-processor IC, (IC801) is supplied as assembled part (RFKWMHC3-S).

## 4 Specifications

### ■ Amplifier Section

#### RMS Output Power Stereo Mode

Front Ch (both ch driven) 20 W per channel (6  $\Omega$ ), 1 kHz, 10 % THD

#### Phone jack

Terminal Stereo, 3.5 mm jack

Output level (CD, 1 kHz, -20 dB) max. 1.18 mW +1.18 mW, 32  $\Omega$

#### Aux (Rear)

#### Sensitivity

Normal level 630 mV, 12.4 k $\Omega$

High level 630 mV, 12.4 k $\Omega$

Terminal Stereo, 3.5 mm jack

### ■ Tuner Section

Preset memory FM 30 stations

AM 15 stations

#### Frequency Modulation (FM)

Frequency range 87.9 MHz to 107.9 MHz  
(200 kHz step)

87.5 MHz to 108.0 MHz  
(100 kHz step)

Antenna terminals 75  $\Omega$  (unbalanced)

#### Amplitude Modulation (AM)

Frequency range 520 kHz to 1710 kHz  
(10 kHz step)

### ■ Disc Section

#### Disc played [8 cm or 12 cm]

(1) CD-Audio (CD-DA)

(2) CD-R/RW (CD-DA, MP3)

(3) MP3

\* MPEG-1 Layer 3, MPEG-2 Layer 3

#### Pick up (CD)

Wavelength 795 nm

Laser power CLASS 1

#### Audio output (Disc)

Number of channels FL, FR, 2 channel

#### Audio performance (CD-Audio)

Frequency response 4 Hz to 20 kHz

S/N ratio 95 dB

Dynamic range 93 dB

Total harmonic distortion 0.005 %

### ■ Speaker Section

Type 1 way, 1 speaker system (Bass reflex)

#### Speaker unit(s)

Full range 6.5 cm Cone type

Impedance 6  $\Omega$

Input power (IEC) 30 W (Max)

Output sound pressure 79 dB/W (1.0m)

Frequency range 55 Hz to 25 kHz (-16 dB)

90 Hz to 22 kHz (-10 dB)

### ■ General

Power supply AC 120 V, 60 Hz

Power consumption 28 W

Dimensions (W x H x D) 500 mm x 195 mm x 102.5 mm  
(19 11/16" x 7 11/16" x 4 1/16")  
[D = 69 mm (2 3/4") minimum]

Mass Approx. 3 kg (6.6 lbs)

Operating temperature range 0°C to +35°C (+32 °F to +95 °F)

Operating humidity range 35% to 80 % RH (no condensation)

Power consumption in standby mode 0.2 W (approx)

Notes :

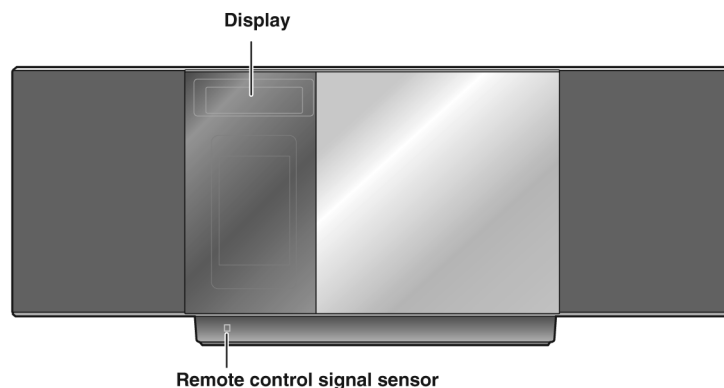
1. Specifications are subject to change without notices. Mass and dimensions are approximate.

2. Total harmonic distortion is measured by the digital spectrum analyzer.

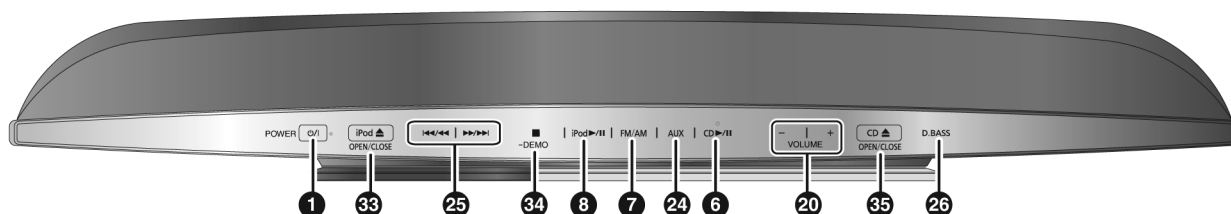
## 5 Location of Controls and Components

### 5.1. Main Unit Key Button Operations

Front View

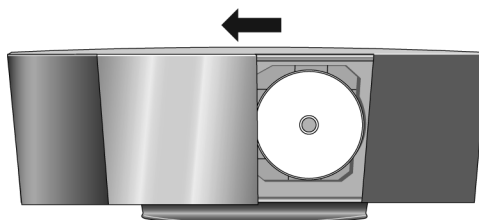


Top View (Top Panel)

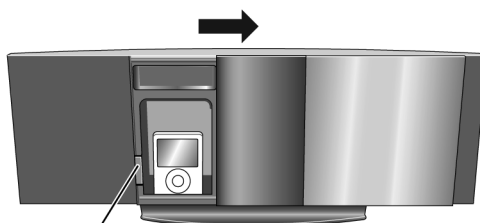


- 33 [iPod ▲, OPEN/CLOSE]  
Open and close sliding door for iPod operation.
- 34 [■, -DEMO]  
Stop/Demo
- 35 [CD ▲, OPEN/CLOSE]  
Open and close sliding door for CD operation.

#### Sliding door Operation



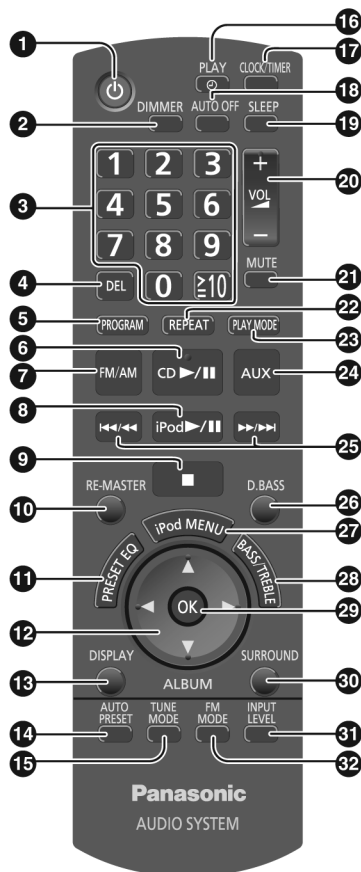
- 35 To operate CD  
Press to open sliding door.  
Press again to close sliding door after setting the CD in place.



- 33 To operate iPod  
Press to open sliding door.  
Press again to close sliding door after iPod is inserted into the dock properly.

## 5.2. Remote Control Key Button Operations

- 1 Standby/on switch** [⏻], [⏻/⏻, POWER]  
Press to switch the unit from on to standby mode or vice versa.  
In standby mode, the unit is still consuming a small amount of power.
- 2 [DIMMER]** Dims the display panel
- 3 Numeric buttons [1-9, 0, ≥10]**  
**To select a 2-digit number**  
e.g. 16: [≥10] → [1] → [6]  
**To select a 3-digit number**  
e.g. 226: [≥10] → [≥10] → [2] → [2] → [6]
- 4 [DEL]**  
Clear the last track
- 5 [PROGRAM]**  
CD/MP3 Program  
Tuner Preset (Manual)
- 6 [CD ▶/⏸]**  
Selector switch to CD  
Direct CD Play/CD Pause
- 7 [FM/AM]**  
FM/AM selection
- 8 [iPod ▶/⏸]**  
Selector switch to iPod  
Direct iPod Play/iPod Pause
- 9 [■]**  
Stop button
- 10 [RE-MASTER]**  
Re-master on/off
- 11 [PRESET EQ]**  
Preset EQ mode selector
- 12 [▲, ▼, ALBUM]**  
Album/track selection  
iPod menu browsing  
[◀, ▶]  
Track skip/search  
Tune/preset channel selection  
Time adjustment  
Bass/treble adjustment
- 13 [DISPLAY]**  
**CD:** CD Display  
(Elapsed play time/Remaining play time)  
**MP3:** MP3 Display  
(Elapsed play time/Album name/Track name/  
ID3 (Album)/ID3 (Track)/ID3 (Artist))
- 14 [AUTO PRESET]**  
Tuner Preset (Auto)
- 15 [TUNE MODE]**  
Tune mode on/off  
Selector switch to Manual/Preset



- 16 [⏻, PLAY]**  
Play timer on/off
- 17 [CLOCK/TIMER]**  
Clock and Timer setting
- 18 [AUTO OFF]**  
This function allows you to turn off the unit in disc mode only after the unit is left unused for 10 minutes. The setting is maintained even if the unit is turned off.  
Press again to cancel this function.
- 19 [SLEEP]**  
Sleep timer setting
- 20 [VOL ◀ +, -,] [-VOLUME+]**  
To adjust the volume
- 21 [MUTE]**  
Mutes the sound.  
Press again to cancel this function.
- 22 [REPEAT]**  
Repeat on/off
- 23 [PLAY MODE]**  
Play mode button  
**Tuner:** Lowest/Current
- 24 [AUX]**  
Connecting to other external units
- 25 [◀◀/▶▶, ▶▶▶▶]**  
Track skip/search  
Tune/preset channel selection  
Time adjustment  
Bass/treble adjustment
- 26 [D.BASS]**  
D.BASS on/off
- 27 [iPod MENU]**  
To display iPod menu
- 28 [BASS/TREBLE]**  
Bass/Treble selection
- 29 (8, 12) [OK]**  
Disc play  
Confirm selection
- 30 [SURROUND]**  
Surround mode on/off
- 31 [INPUT LEVEL]**  
Adjusting level in AUX mode to Normal/High
- 32 [FM MODE]**  
FM mode on/off  
Selector switch to Mono/Stereo



# 6 Operating Instructions

## 6.1. Disc and MP3 Information

### Note

- During random play, you cannot skip to previous track.
- The current play mode is cleared when you open the sliding door.

### CD

- During RANDOM play, you can search backward or forward only within the current track.

### Note on CD-R and CD-RW

This unit can play CD-R and CD-RW recorded with CD-DA or MP3. Use an audio recording disc for CD-DA and finalize\* it when you finish recording.

The unit may not be able to play some discs due to the condition of the recording.

\* A process performed after recording that enables CD-R/CD-RW players to play audio CD-R and CD-RW.

### Caution

Do not:

- use irregularly shaped CDs.
- attach extra labels and stickers.
- use CDs with labels and stickers that are coming off or with adhesive exuding from under labels and stickers.
- attach scratch-proof covers or any other kind of accessories.
- write anything on the CD.
- clean CDs with liquids (Wipe with a soft, dry cloth).

### Note about using a DualDisc

The digital audio content side of a DualDisc does not meet the technical specifications of the Compact Disc Digital Audio (CD-DA) format so playback may not be possible.

### MP3

The unit can play MP3, a method of compressing audio without hurting audio quality.

### When creating MP3 files to play on this unit

- Maximum number of tracks and albums: 999 tracks and 256 albums.
- Compatible compression rate:  
Between 64 kbps and 320 kbps (stereo).  
128 kbps (stereo) is recommended.
- Disc formats: ISO9660 level 1 and level 2 (except for extended formats).
- The time for reading TOC depends on the number of the tracks, the folders or folder structures.

### Limitations on MP3

- This unit is compatible with multi-sessions but if there are a lot of sessions it takes more time for play to start. Keep the number of sessions to a minimum to avoid this.
- This unit cannot play files recorded using packet write.
- If the disc includes both MP3 and normal audio data (CD-DA), the unit plays the type recorded in the inner part of the disc.  
If the disc includes both MP3 and other types of audio data (e.g. WMA or WAV), the unit plays only the MP3.
- Depending on how you create MP3 files, they may not play in the order you numeric them or may not play at all.

## 7 Self diagnosis and special mode setting

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

### 7.1. 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:

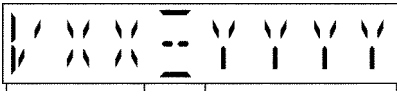
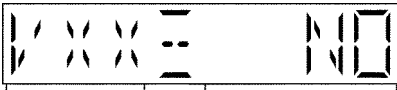
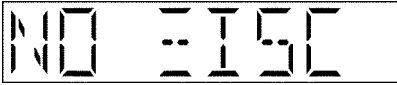
| Player buttons | Remote control unit buttons | Application                                    | Note                                                |
|----------------|-----------------------------|------------------------------------------------|-----------------------------------------------------|
| ■, -DEMO       | [4], [7]                    | To Enter into Doctor Mode for various checking | (Refer to the section "7.2.1 Service Mode Table 1.) |

| Player buttons                          | Remote control unit buttons | Mode Name                       | Note                                                                     |
|-----------------------------------------|-----------------------------|---------------------------------|--------------------------------------------------------------------------|
| <b>Note</b> : Applicable in Doctor Mode | [1]                         | FL Display Test                 | (Refer to the section "7.2.2 service mode Table 2 for more information.) |
|                                         | [6]                         | CD and Tape Eject test          | (Refer to the section "7.2.2 service mode Table 2 for more information.) |
|                                         | [7]                         | VOLUME setting (50dB)           | (Refer to the section "7.2.2 service mode Table 2 for more information.) |
|                                         | [8]                         | VOLUME setting (29dB)           | (Refer to the section "7.2.2 service mode Table 2 for more information.) |
|                                         | [9]                         | VOLUME setting (0dB)            | (Refer to the section "7.2.2 service mode Table 2 for more information.) |
|                                         | [≥10], [1], [2]             | CD Traverse Unit Test Mode      | (Refer to the section "7.2.2 service mode Table 2 for more information.) |
|                                         | [≥10], [1], [3]             | CD Combination Test Mode        | (Refer to the section "7.2.2 service mode Table 2 for more information.) |
|                                         | [SLEEP]                     | Cold Start                      | (Refer to the section "7.2.2 service mode Table 2 for more information.) |
|                                         | [≥10], [2], [1]             | Mecha sliding Panel Reliability | (Refer to the section "7.2.2 service mode Table 2 for more information.) |

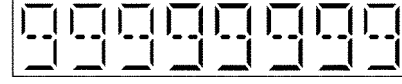
## 7.2. Service Mode Table

Below is the various special modes for checking:-

### 7.2.1. Service Mode Table 1

| Item                  |                                                                                                                                                                                                                                                                  | FL Display                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Key Operation                                                                                                                                                                                                                                                           |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mode Name             | Description                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Front Key                                                                                                                                                                                                                                                               |
| Self -Diagnostic Mode | To enter into self diagnostic checking for main unit.                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <ol style="list-style-type: none"> <li>1. Select [CD ►/II] for CD mode (Ensure no CD inserted).</li> <li>2. Press and hold [■, -DEMO] button for 2 seconds follow by [►►/►►].</li> </ol> <p>To exit Doctor Mode, press [⏻/I] button on main unit or remote control.</p> |
| 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>(Display 1)</p>  <p>Version Display (DEC)      Check sum (HEX)</p> <p>Checksum : (Condition 1)</p>  <p>Version Display (DEC)      No Rom correction</p> <p>(a) If there is NO EEPROM header string OR<br/>(b) If there is no EEPROM ( no data is received by micro-processor) [NO] is displayed.</p> <p>Checksum : (Condition 2)</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>If the EEPROM version matches, checksum [YYYY] is displayed.</p> <p>(Display 2)</p>  <p>The Checksum of EEPROM and firmware version will be display for 2 sec.</p> | <p>In CD mode:</p> <ol style="list-style-type: none"> <li>1. Press [■, -DEMO] button on main unit follow by [4] and [7] on remote control.</li> </ol> <p>To exit Doctor Mode, press [⏻/I] button on main unit or remote control.</p>                                    |

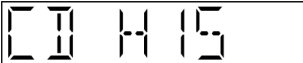
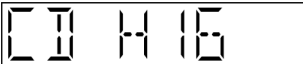
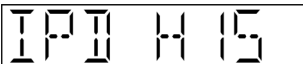
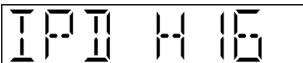
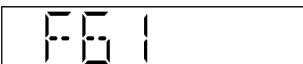
## 7.2.2. Service Mode Table 2

| Item                            |                                                                                                                                                                                                                                                                                                         | FL Display                                                                                                                                                                                                                            | Key Operation                                                                                                                                                                                                     |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mode Name                       | Description                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                       | Front Key                                                                                                                                                                                                         |
| FL Display Test                 | To check the FL segments display (All segments will light up)                                                                                                                                                                                                                                           |                                                                                                                                                     | In Doctor Mode:<br>1. Press [1] button on remote control.<br>To cancel, press [0] button on remote control.<br>To exit Doctor Mode, press [⏻/I] button on main unit or remote control.                            |
| Volume Setting                  | To check for volume setting during this mode, Bass & treble is set to 0dB & EQ is switch off.                                                                                                                                                                                                           |                                                                                                                                                     | In Doctor Mode:<br>1. Press [7] button on remote control.<br>To exit Doctor Mode, press [⏻/I] button on main unit or remote control.                                                                              |
|                                 |                                                                                                                                                                                                                                                                                                         |                                                                                                                                                     | In Doctor Mode:<br>2. Press [8] button on remote control.<br>To exit Doctor Mode, press [⏻/I] button on main unit or remote control.                                                                              |
|                                 |                                                                                                                                                                                                                                                                                                         |                                                                                                                                                     | In Doctor Mode:<br>3. Press [9] button on remote control.<br>To exit Doctor Mode, press [⏻/I] button on main unit or remote control.                                                                              |
| CD Traverse Unit Test Mode      | To check for the traverse unit operation. In this mode, the first & last track is access & read. (TOC). It fails when TOC is not completed by IOS or the traverse is out of focus.                                                                                                                      |  <p>The counter will increment by 1 until reach 99999999</p>    | In Doctor Mode:<br>1. Press [≥10], [1], [2] button on remote control.<br>To cancel, press [0] button on remote control.<br>To exit Doctor Mode, press [⏻/I] button on main unit or remote control.                |
| CD Combination Test Mode        | A combination of CD loading & traverse unit test.                                                                                                                                                                                                                                                       |  <p>The counter will increment by 1 until reach 99999999</p>  | In Doctor Mode:<br>1. Press [≥10], [1], [3] button on remote control.<br>To cancel, press [0] button on remote control.<br>To exit Doctor Mode, press [⏻/I] button on main unit or remote control.                |
| Cold Start                      | To activate cold start upon next AC power up.                                                                                                                                                                                                                                                           |                                                                                                                                                   | In Doctor Mode:<br>1. Press [SLEEP] button on remote control.<br>To exit Doctor Mode, press [⏻/I] button on main unit or remote control.                                                                          |
| Mecha Sliding Panel Reliability | To check the operation of sliding Panel.<br>Sequence as follow :<br>1. Panel set to centre position.<br>2. CD Open & stop at left position for 1s.<br>3. CD Close & stop at centre position for 1s.<br>4. iPod open & stop at right position for 1s.<br>5. iPod close & stop at centre position for 1s. |                                                               | In Doctor Mode:<br>1. Press [≥10] follow by [2] & then [1] button on remote control.<br>To cancel, press [0] button on remote control.<br>To exit Doctor Mode, press [⏻/I] button on main unit or remote control. |

### 7.3. Error Code Table

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

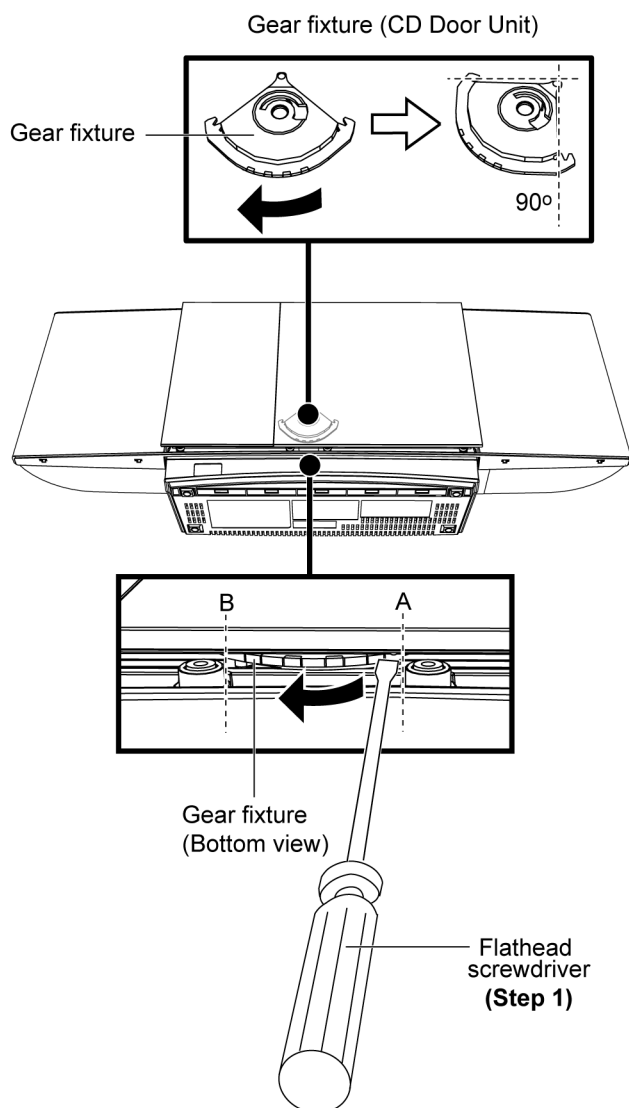
The error code is automatically displayed after entering into self-diagnostic mode.

| Error Code | Diagnosis Contents                                       | Description of error                                                                                                                                           | Automatic FL Display                                                                                                                                                         | Remarks                                                         |
|------------|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| CD H15     | CD Open Abnormal                                         | During operation<br>POS_SW_R On fail to be detected with 3 sec. Error No. shall be clear by force or during cold start.                                        |                                                                                            | For CD Mechanism Unit<br>Press [■] on main unit for next error. |
| CD H16     | CD Closing Abnormal                                      | During operation<br>POS_SW_CEN On fail to be detected with 3 sec. Error No. shall be clear by force or during cold start.                                      |                                                                                            | For CD Mechanism Unit<br>Press [■] on main unit for next error. |
| IPD H15    | iPod Open Abnormal                                       | During operation<br>POS_SW_L On fail to be detected with 3 sec. Error No. shall be clear by force or during cold start.                                        |                                                                                            | For iPod<br>Press [■] on main unit for next error.              |
| IPD H16    | iPod Closing Abnormal                                    | During operation<br>POS_SW_CEN On fail to be detected with 3 sec. Error No. shall be clear by force or during cold start.                                      |                                                                                            | For iPod<br>Press [■] on main unit for next error.              |
| F15        | CD REST SW Abnormal                                      | CD traverse position initial setting operation failsafe counter (10 s) waiting for REST SW to turn on. Error No. shall be clear by force or during cold start. |                                                                                            | For CD Mechanism Unit<br>Press [■] on main unit for next error. |
| F26        | Communication between CD servo LSI and micro-p abnormal. | During switch to CD function, if SENSE = "L" within failsafe time of 20ms.                                                                                     |                                                                                          | For CD Mechanism Unit<br>Press [■] on main unit for next error. |
| F61/F76    | Power Amp IC output abnormal                             | During power-on, PDET1, PDET2 & MAINV_DET / TEMP_DET is "L" after 1 sec.                                                                                       | <br> | For power.<br>Press [■] on main unit for next error.            |

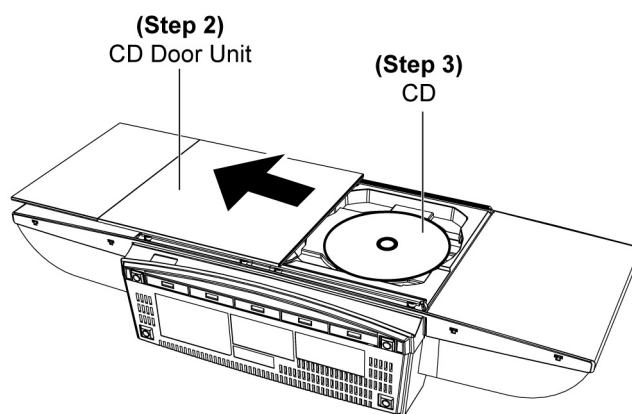
## 8 Troubleshooting Guide

### 8.1. CD Door Unit Jam

#### 8.1.1. Removing the CD



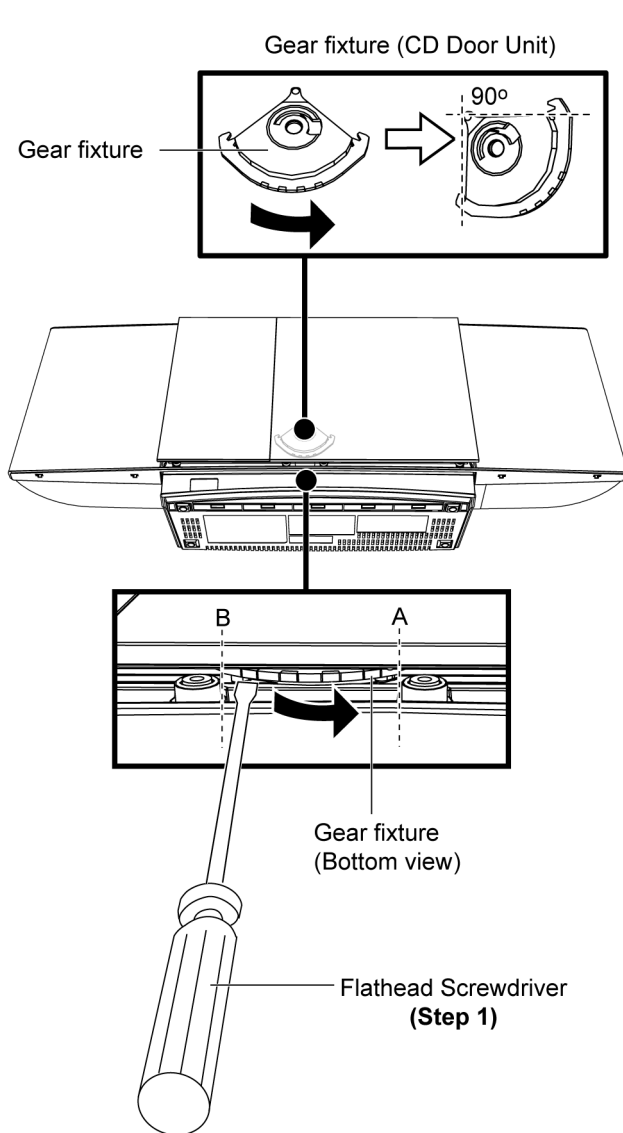
**Step 1 :** Insert a flathead screwdriver into the hole behind the CD Door Unit and push the gear fixture from point A to B.



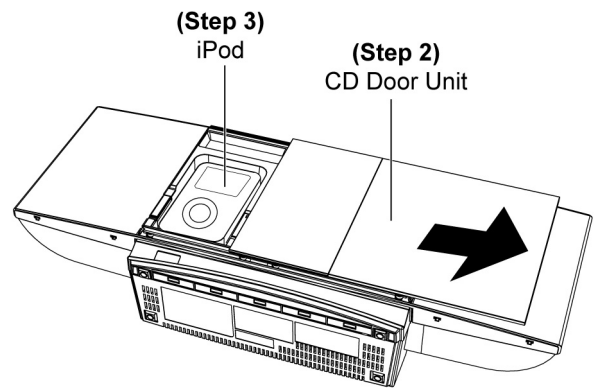
**Step 2 :** Push the CD Door Unit as arrow shown until the CD is fully in sight.

**Step 3 :** Remove the CD.

### 8.1.2. Removing the iPod



**Step 1 :** Insert a flathead screwdriver into the hole behind the CD Door Unit and push the gear fixture from point B to A.



**Step 2 :** Push the CD Door Unit as arrow shown until the iPod is fully in sight.

**Step 3 :** Remove the iPod.

## 9 Disassembly and Assembly Instructions

### “ATTENTION SERVICER”

Be careful when disassembling and servicing.

Some chassis components may have sharp edges

### Special Note:

1. This section describes the disassembly procedures for all the major printed circuit boards and main components.
2. 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.)
3. For assembly after operation checks or replacement, reverse the respective procedures.  
Special reassembly procedures are described only when required.
4. Do take note of the locators on each printed circuit board during reassembling procedures.
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.

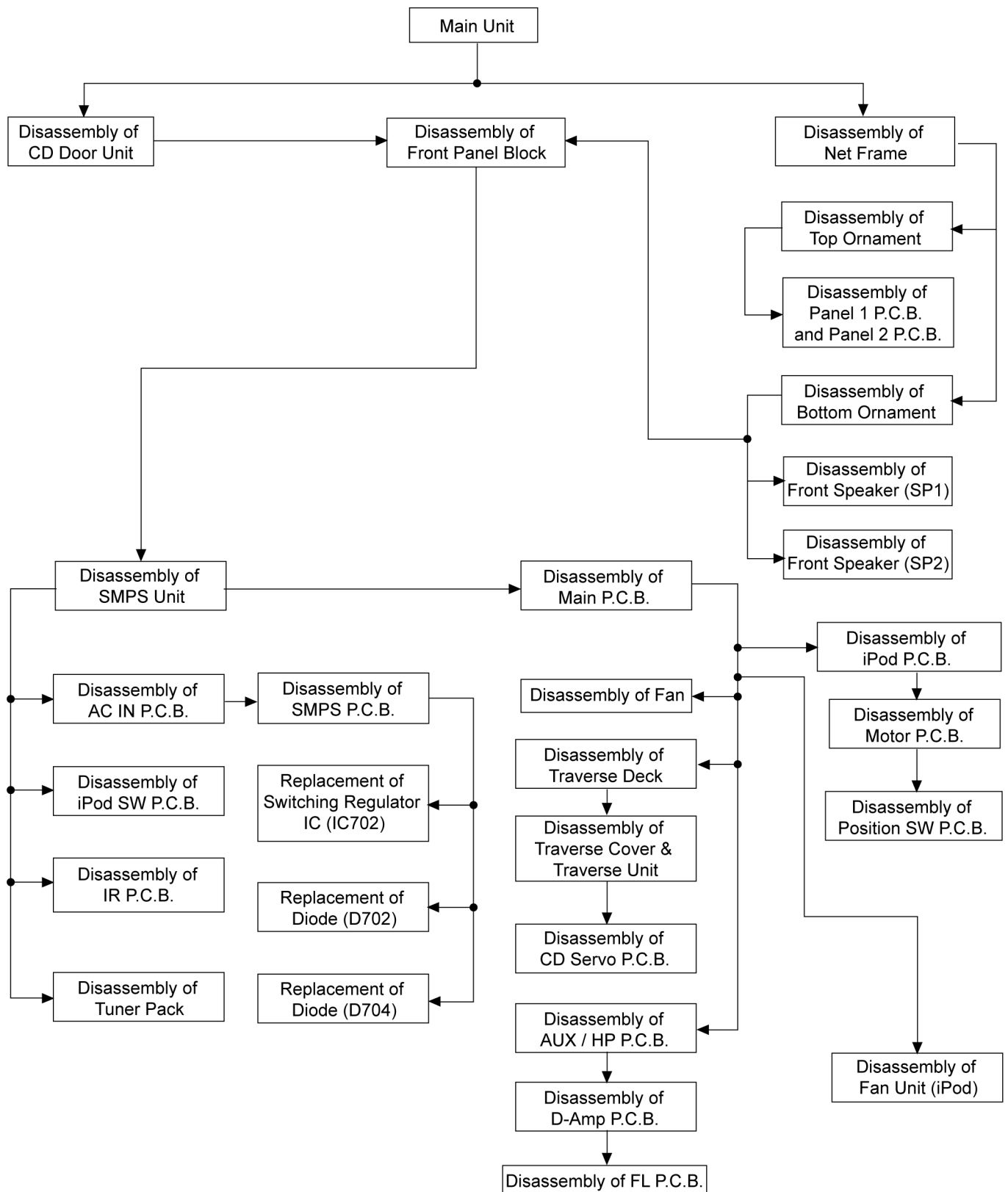
- Disassembly of CD Door Unit
- Disassembly of Net Frame Assembly
- Disassembly of Top Ornament
- Disassembly of Bottom Ornament
- Disassembly of Speaker Unit (SP1)
- Disassembly of Speaker Unit (SP2)
- Disassembly of Panel 1 & Panel 2 P.C.B.
- Disassembly of Front Panel Block
- Disassembly of Tuner Pack
- Disassembly of SMPS Unit
- Disassembly of AC IN P.C.B.
- Disassembly of SMPS P.C.B.
- Replacement of Switching Regulator IC (IC702)
- Replacement of Diode (D702)
- Replacement of Diode (D704)
- Disassembly of Main P.C.B.
- Disassembly of Fan
- Disassembly of AUX / HP P.C.B.
- Disassembly of Traverse Deck
- Disassembly of Traverse Cover & Traverse Unit
- Disassembly of CD Servo P.C.B.
- Disassembly of D-Amp P.C.B.
- Disassembly of Fan Unit (iPod)
- Disassembly of FL P.C.B.
- Disassembly of iPod P.C.B.
- Disassembly of Motor P.C.B.
- Disassembly of Position SW P.C.B.
- Disassembly of iPod SW P.C.B.
- Disassembly of IR P.C.B.



## 9.1. 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.



## 9.2. Type of Screw

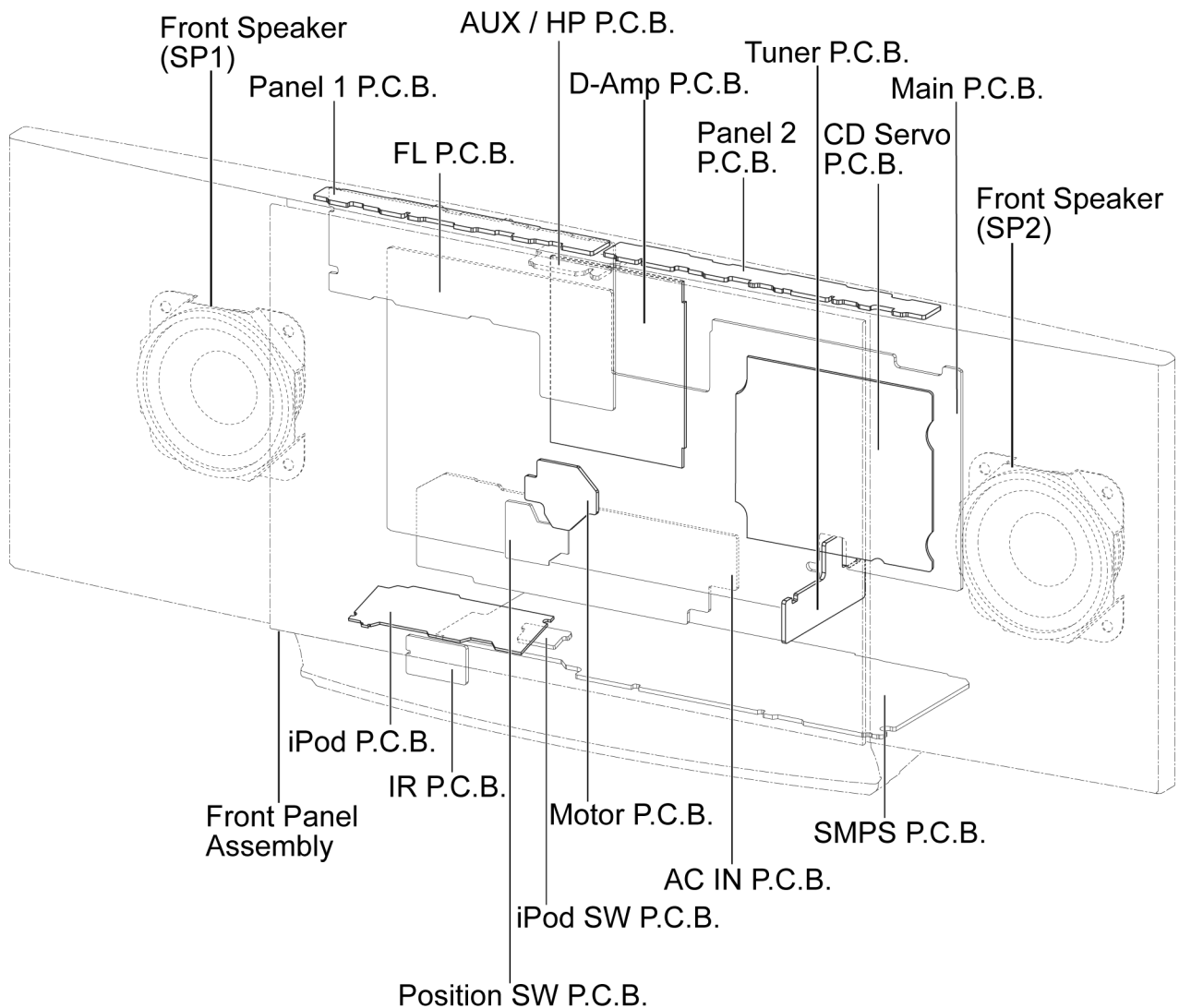
### CAUTION NOTE:

Please use original screw and at correct locations.

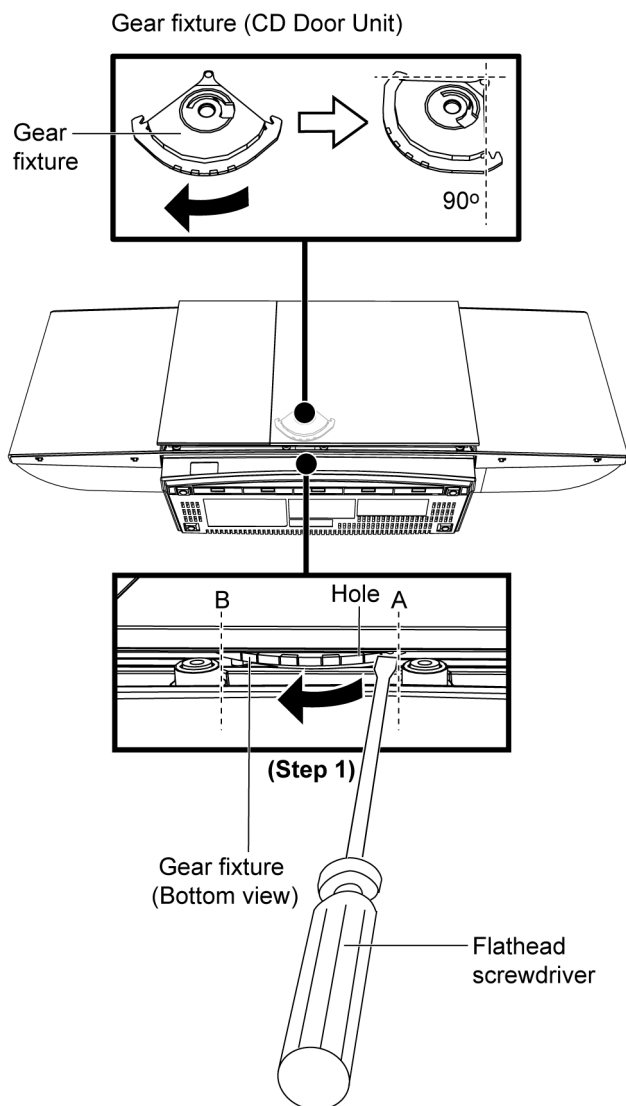
Below shown is part no. of different screw types used:

- |                        |                       |
|------------------------|-----------------------|
| <b>a</b> : XTB2+6GFJK  | <b>g</b> : RHD30090-1 |
| <b>b</b> : RHD26046    | <b>h</b> : XTV3+8FFJ  |
| <b>c</b> : XTB3+12JFJK | <b>i</b> : XTV3+6FFJ  |
| <b>d</b> : XTB3+8JFJK  | <b>j</b> : XTB3+16JFJ |
| <b>e</b> : RHD14136    | <b>k</b> : XTB3+8JFJ  |
| <b>f</b> : XTN2+6GFJ   | <b>l</b> : RHD30092-1 |

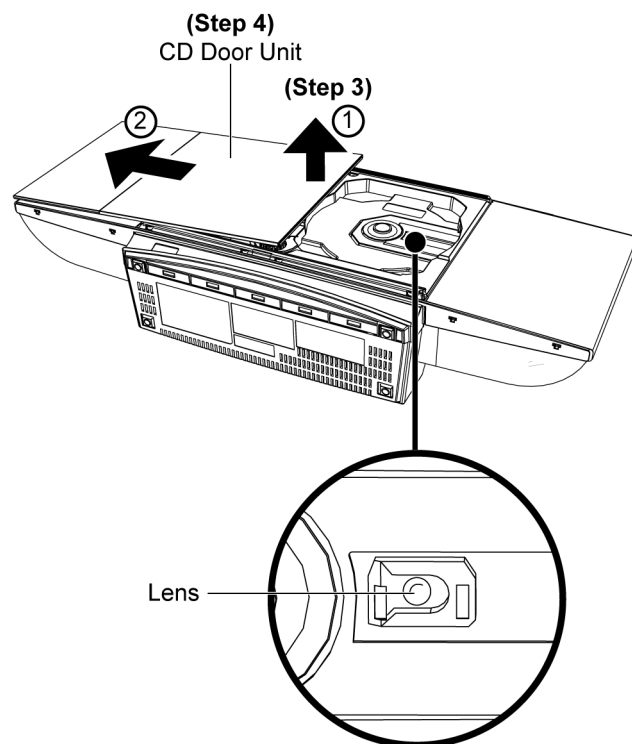
## 9.3. Main Parts Location Diagram



## 9.4. Disassembly of CD Door Unit



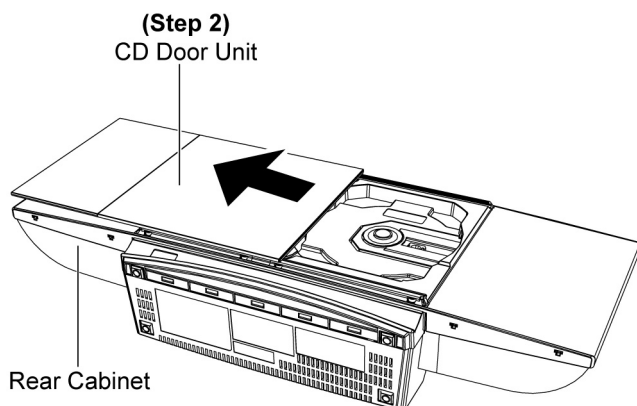
**Step 1 :** Insert a flathead screwdriver into the hole behind the CD Door Unit and push the gear fixture from point A to B.



**Step 3 :** Lift up the CD Door Unit slightly as arrow ① shown and push it as arrow ② shown.

**Step 4 :** Remove the CD Door Unit.

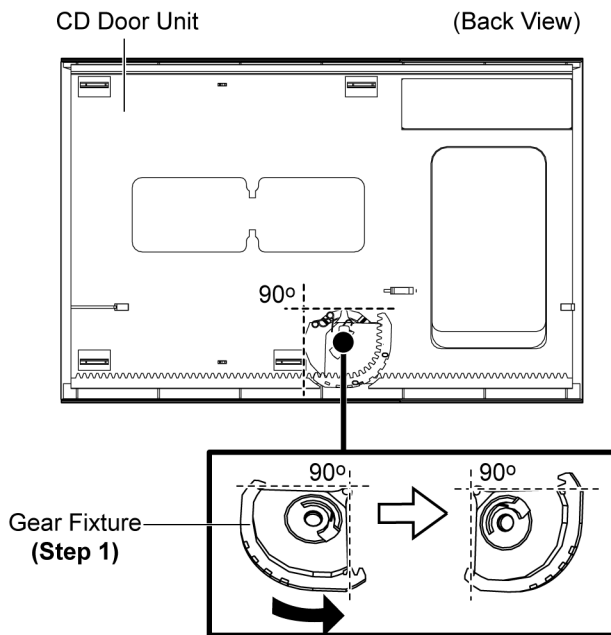
**Caution :** Avoid touching the lens during assembling / Dis-assembly of the CD Door Unit.



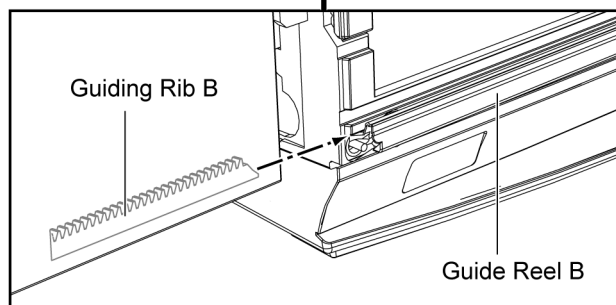
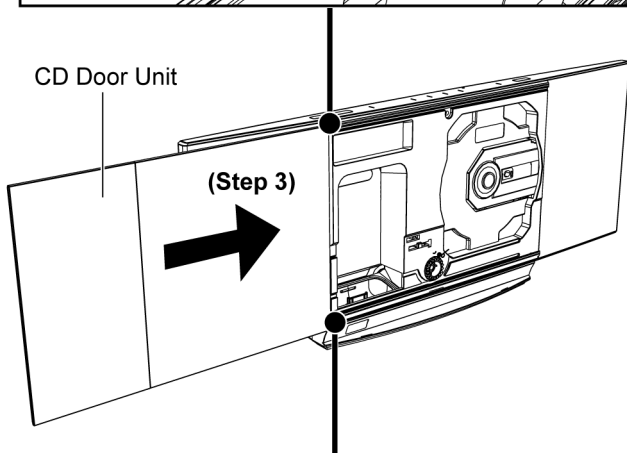
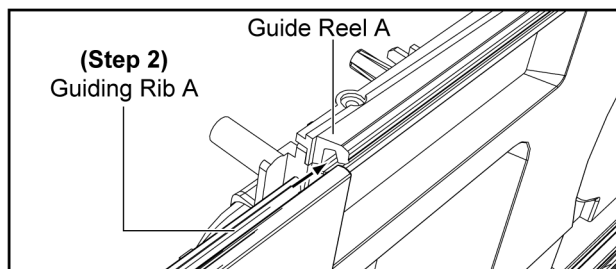
**Step 2 :** Gently push the CD Door Unit manually until it is fully extended.

• **Assembly of CD Door Unit**

**Caution :** Avoid touching the lens during assembling / Dis-assembly of the CD Door Unit.



**Step 1 :** Adjust the gear fixture as diagram shown.



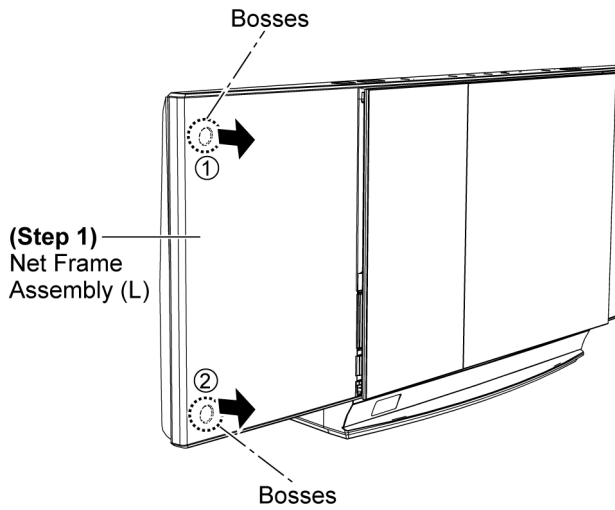
**Step 2 :** Align the CD Door Unit with the (upper & lower rib), guide reel (A & B) on the front panel.

**Step 3 :** Gently push the CD Door Unit until it is fully closed.

## 9.5. Disassembly of Net Frame Assembly

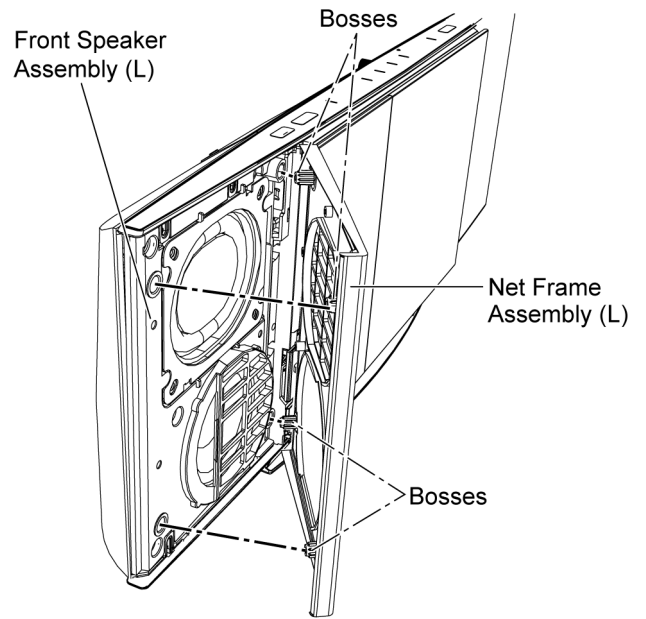
### • Disassembly of Net Frame Assembly (L)

(Front view)

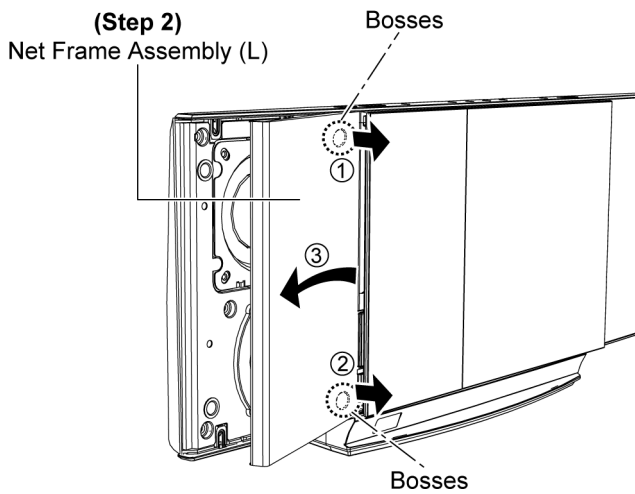


**Step 1 :** Gently lift up Net Frame Assembly (L).

**Caution :** During assembly ensure the net frame assembly (L) is seated properly



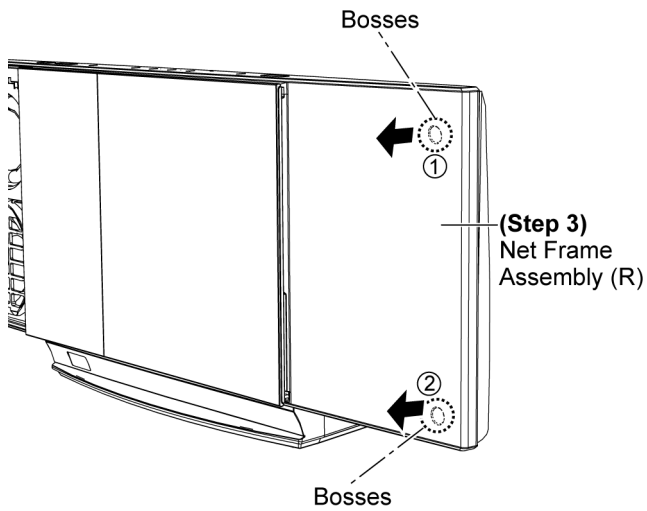
**Caution :** During assembly ensure that the bosses are aligned to their respective holes in Front Speaker Assembly (L) as shown.



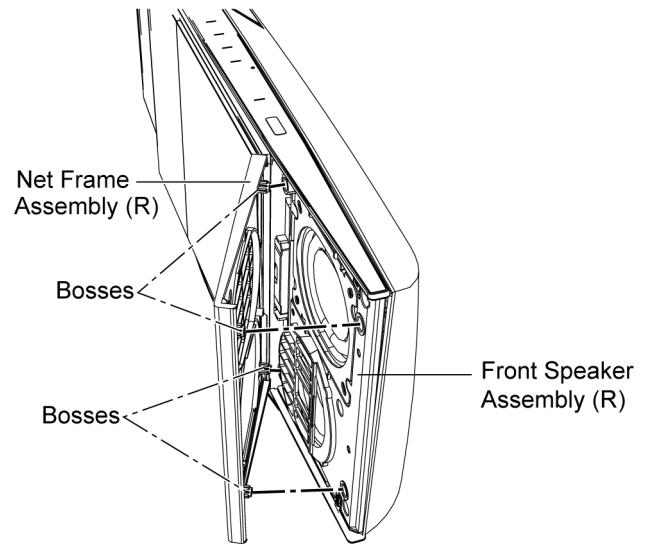
**Step 2 :** Remove Net Frame Assembly (L) as arrow shown.

• **Disassembly of Net Frame Assembly (R)**

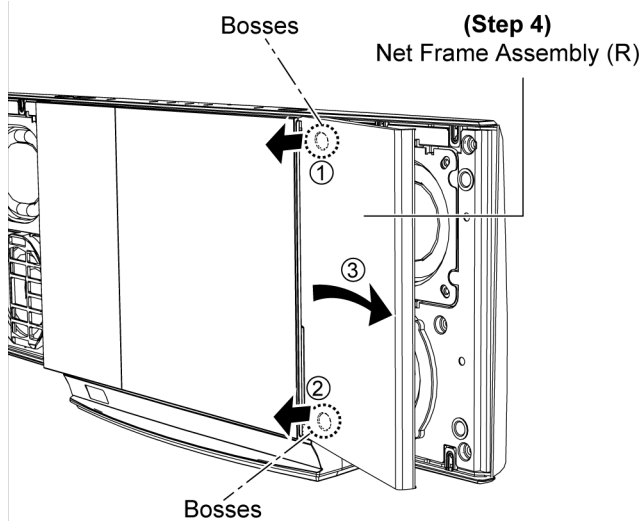
(Front view)



**Step 3 :** Gently lift up Net Frame Assembly (R).



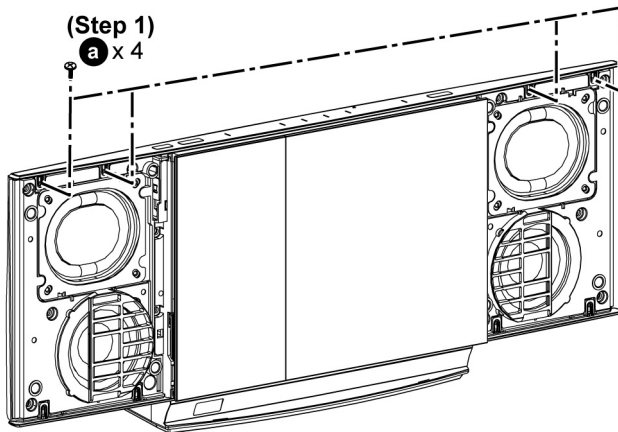
**Caution :** During assembly ensure that the bosses are aligned to their respective holes in Front Speaker Assembly (R) as shown.



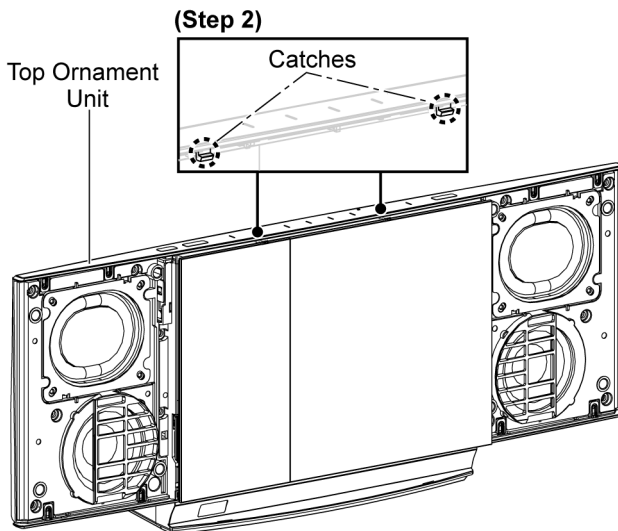
**Step 4 :** Remove Net Frame Assembly (R) as arrow shown.

## 9.6. Disassembly of Top Ornament

- Follow the (Step 1) - (Step 4) of item 9.5.

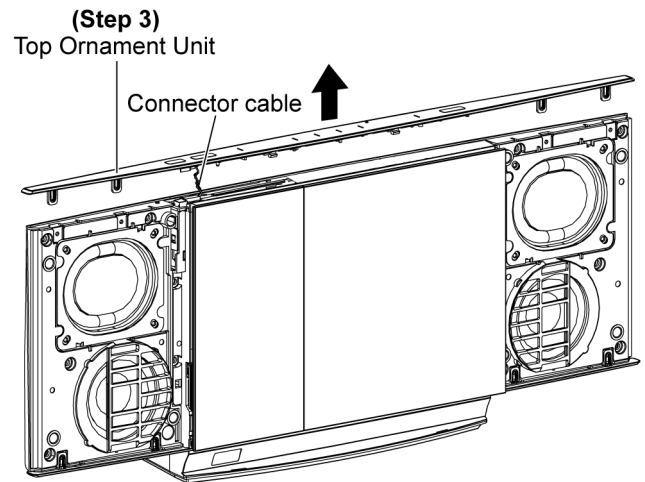


**Step 1 :** Remove 4 screws.



**Step 2 :** Gently release the 2 catches on the Top Ornament Unit.

**Caution :** Take extra care not to damage the Top Ornament Unit when releasing the catches during disassembling.

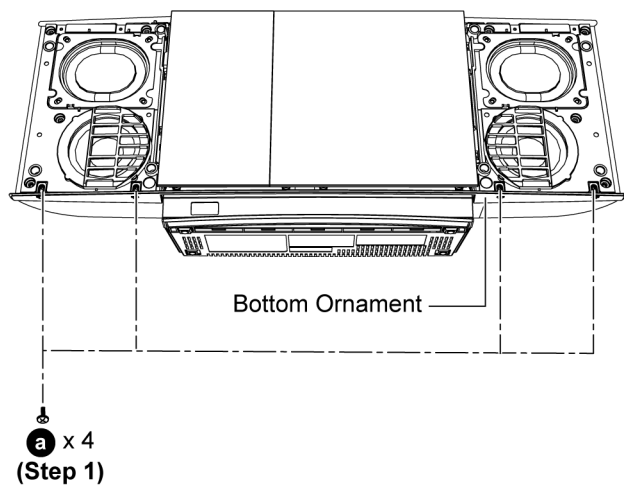


**Step 3 :** Lift up the Top Ornament Unit.

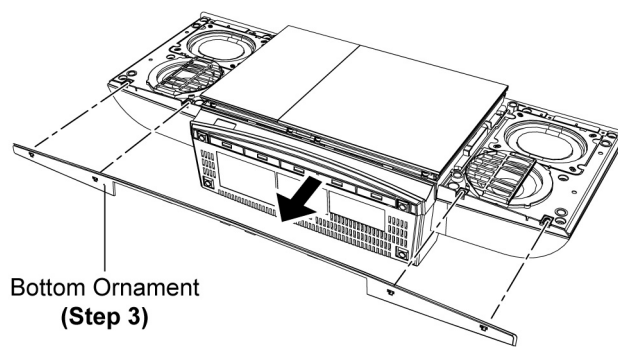
**Caution :** Avoid pulling when detaching the Top Ornament or apply strong force it may lead to the broken of connecting cable.

## 9.7. Disassembly of Bottom Ornament

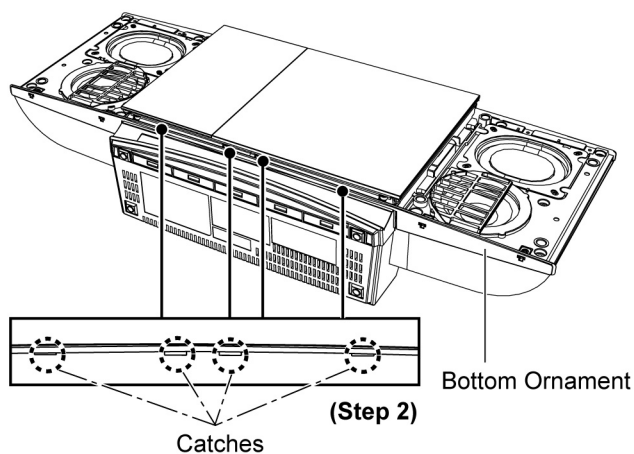
- Follow the (Step 1) - (Step 4) of item 9.5.



**Step 1 :** Remove 4 screws.



**Step 3 :** Remove the Bottom Ornament.

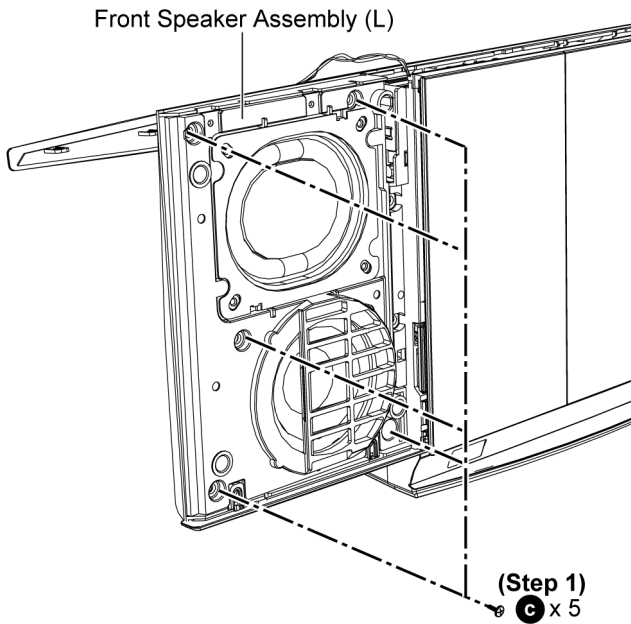


**Step 2 :** Gently release the 4 catches on the Bottom Ornament.  
**Caution :** Take extra care not to damage the Bottom Ornament during disassembling.

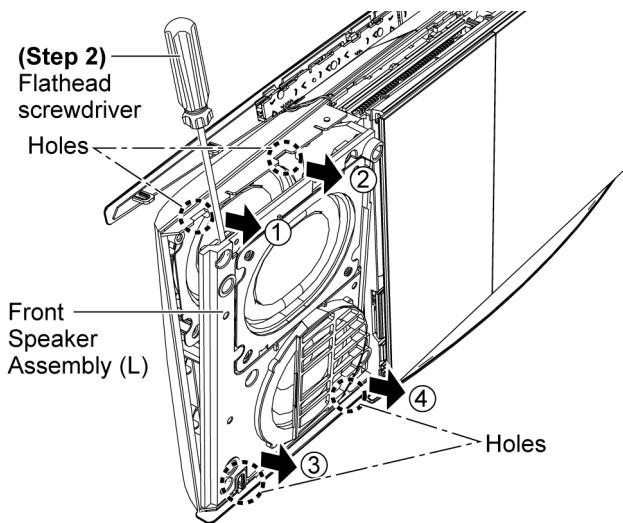


## 9.8. Disassembly of Speaker Unit (SP1)

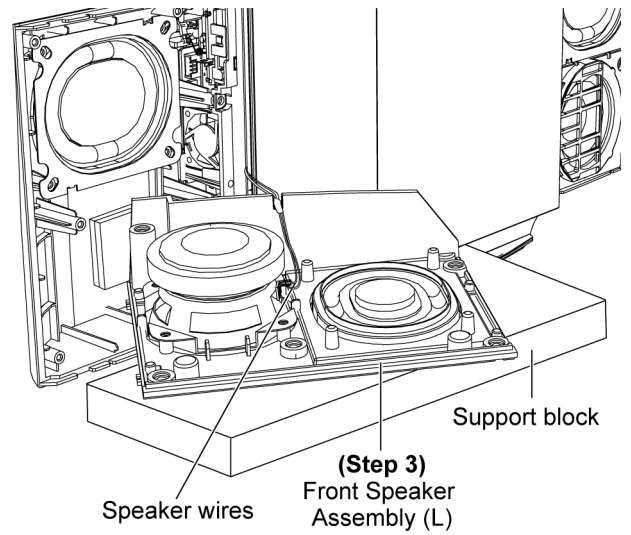
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.



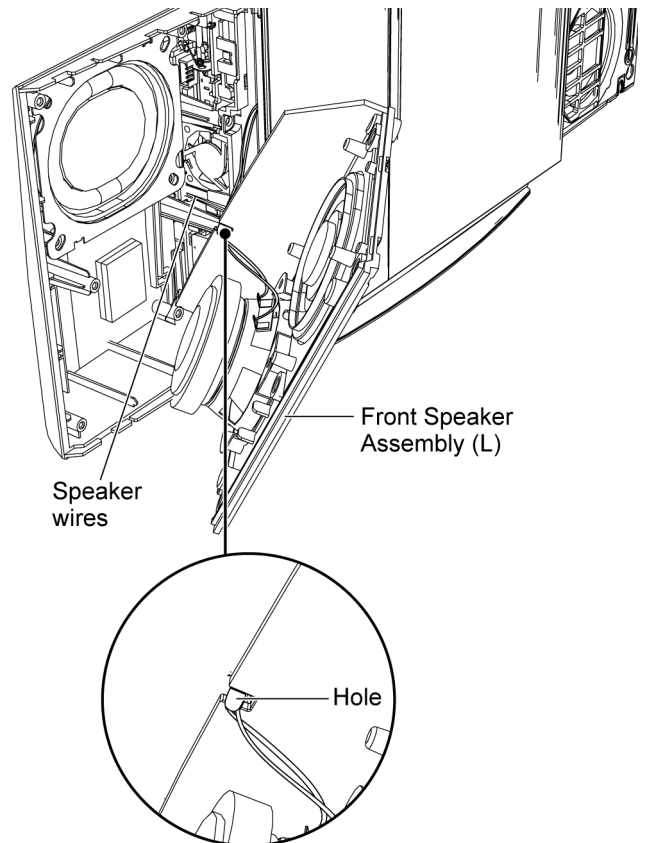
**Step 1 :** Remove 5 screws.



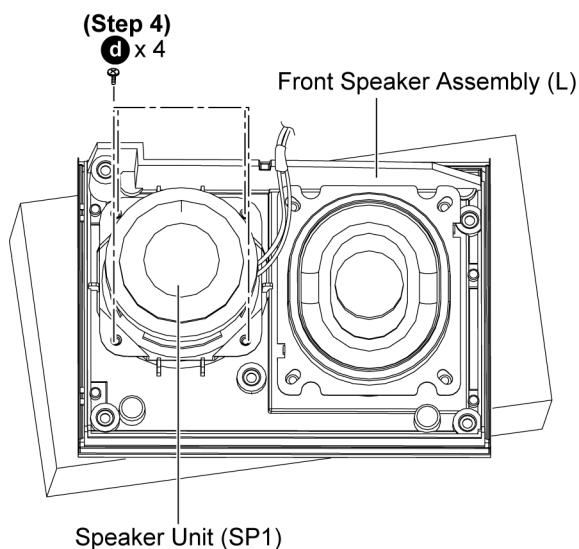
**Step 2 :** Using a flathead screwdriver, apply gentle force at the 4 holes in the Front Speaker Assembly (L) in order show to detach it from the Main Unit as arrows shown.



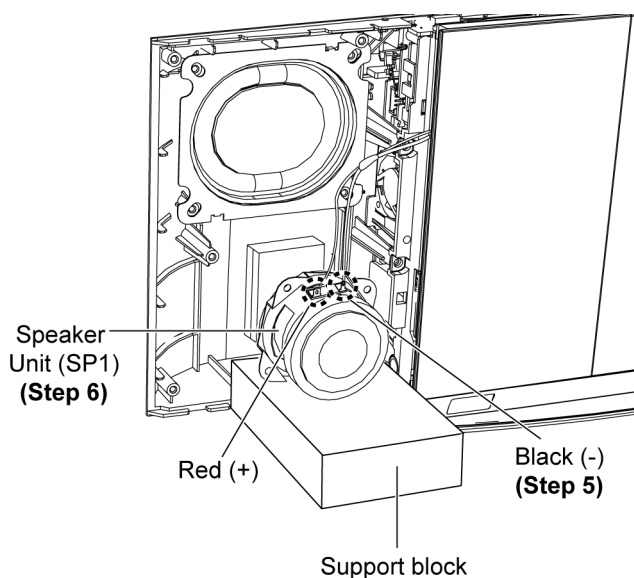
**Step 3 :** Place the Front Speaker Assembly (L) on a support block as shown.



**Caution :** During assembling of the Front Speaker Assembly (L), insert the speaker wires into the hole in the Front Speaker Assembly (L).



**Step 4 :** Remove 4 screws.

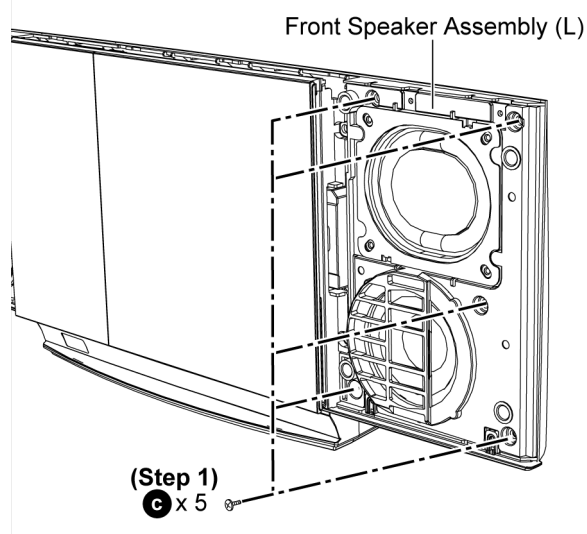


**Step 5 :** Desolder the speaker terminals of the red (+) and black (-) speaker wires.

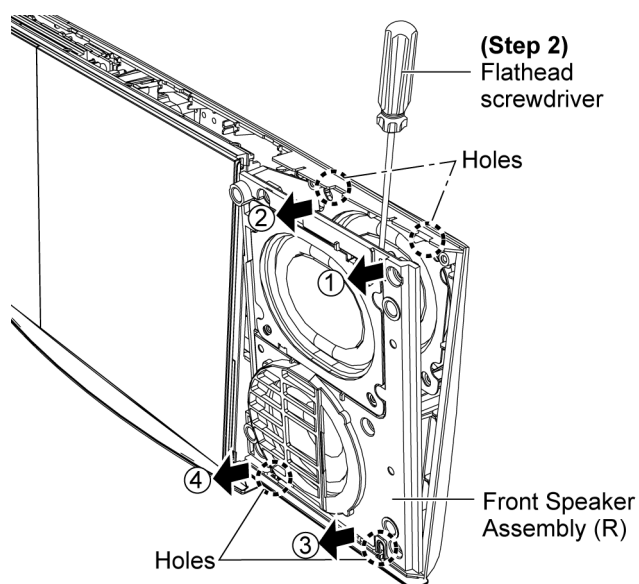
**Step 6 :** Remove Speaker unit (SP1).

## 9.9. Disassembly of Speaker Unit (SP2)

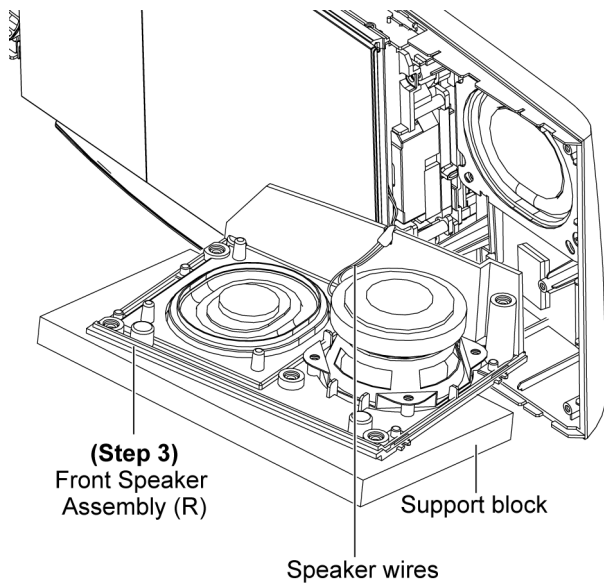
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.



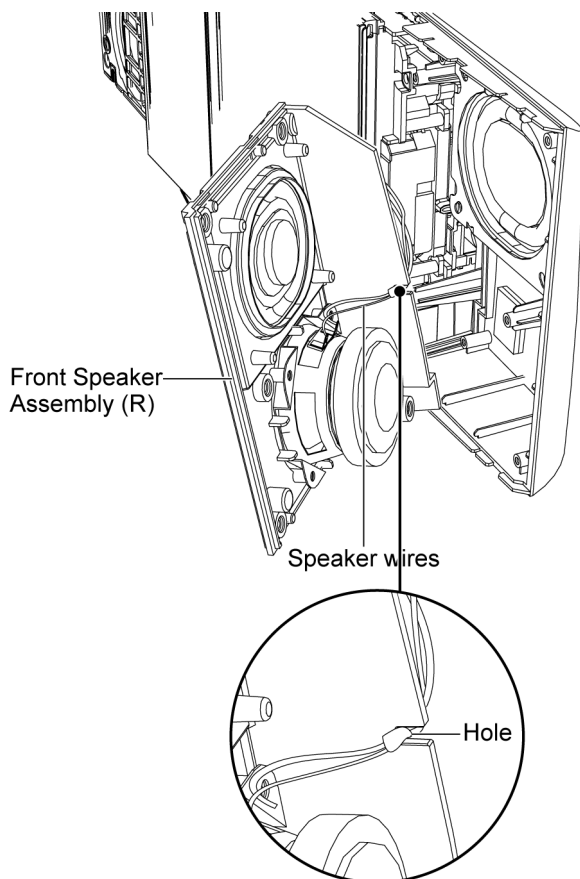
**Step 1 :** Remove 5 screws.



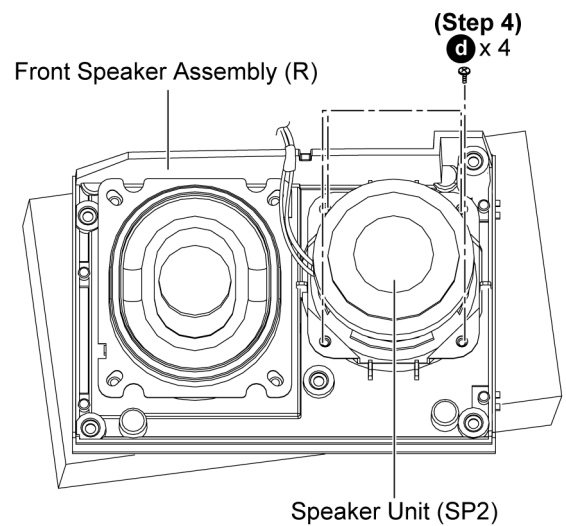
**Step 2 :** Using a flathead screwdriver, apply gentle force at the 4 holes in the Front Speaker Assembly (R) to detach it from the Main Unit as arrows shown.



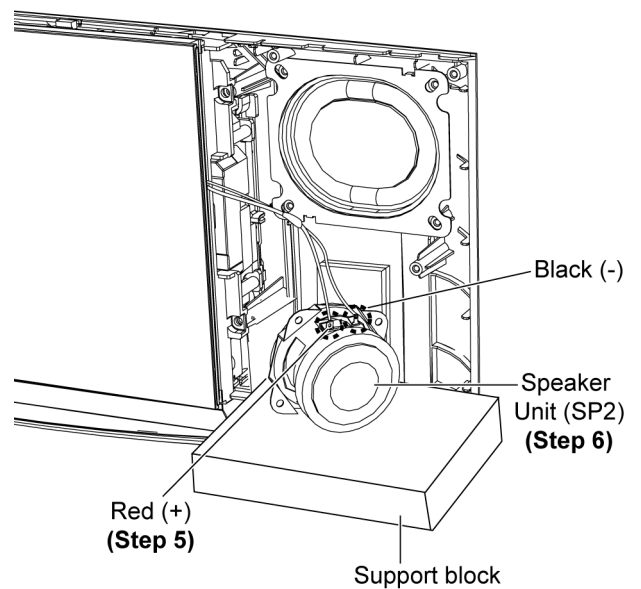
**Step 3 :** Place the Front Speaker Assembly (R) on a support block as shown.



**Caution :** During assembling of the Front Speaker Assembly (R), insert the speaker wires into the hole in the Front Speaker Assembly (R).



**Step 4 :** Remove 4 screws.



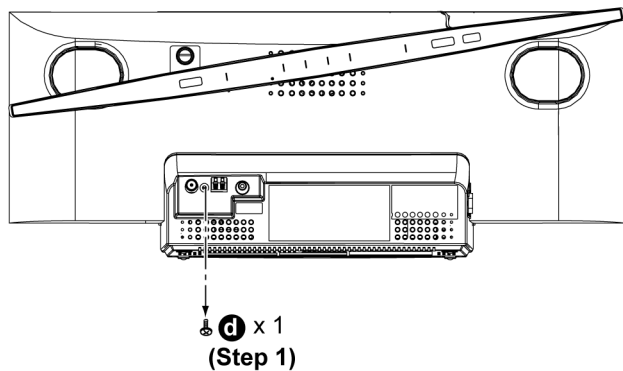
**Step 5 :** Desolder the speaker terminals of the red (+) and black (-) speaker wires.

**Step 6 :** Remove Speaker unit (SP2).

## 9.10. Disassembly of Panel 1 & Panel 2 P.C.B.

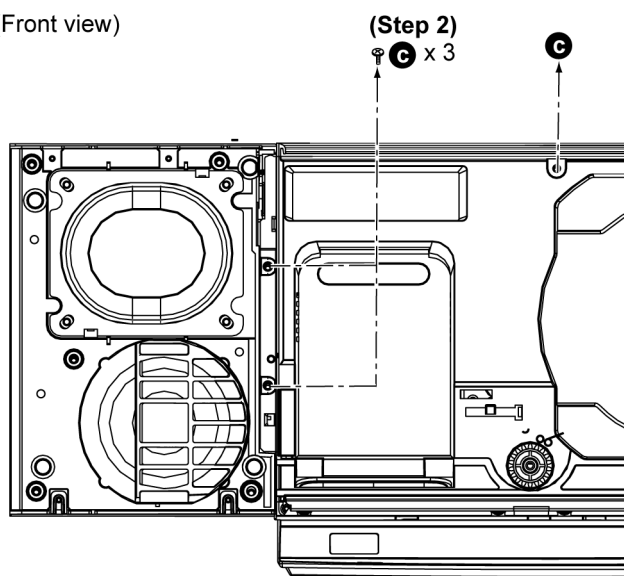
- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.

(Rear view)

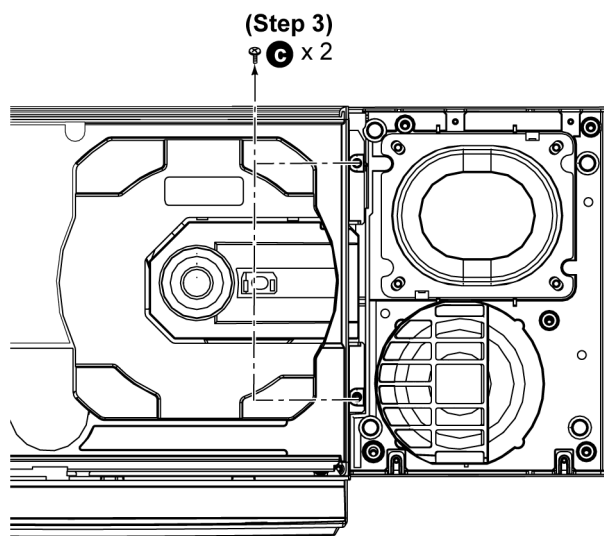


**Step 1 :** Remove 1 screw.

(Front view)

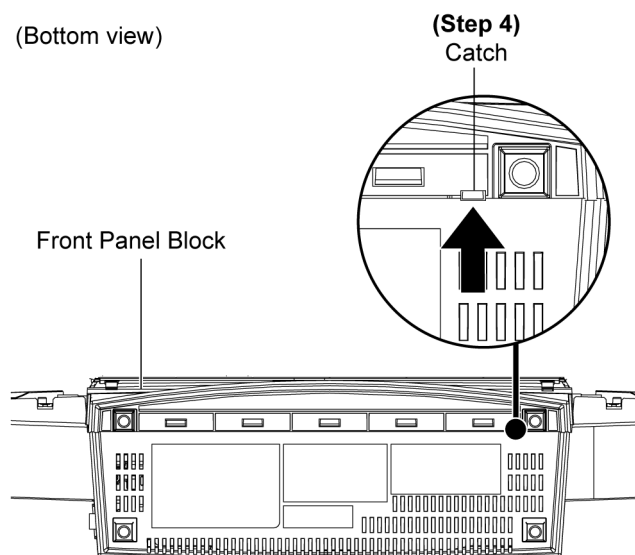


**Step 2 :** Remove 3 screws.



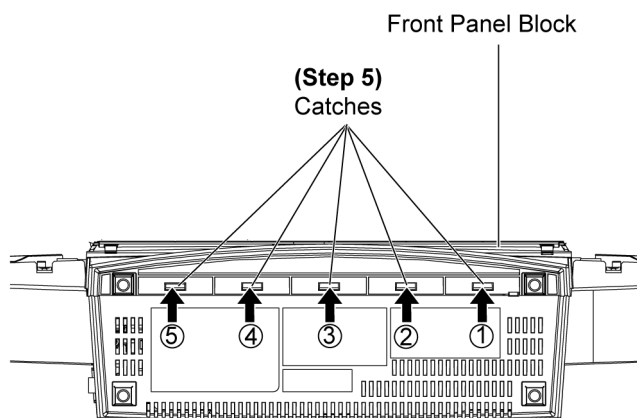
**Step 3 :** Remove 2 screws.

(Bottom view)

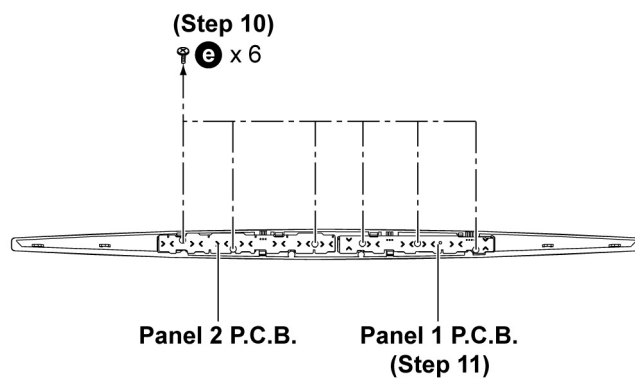
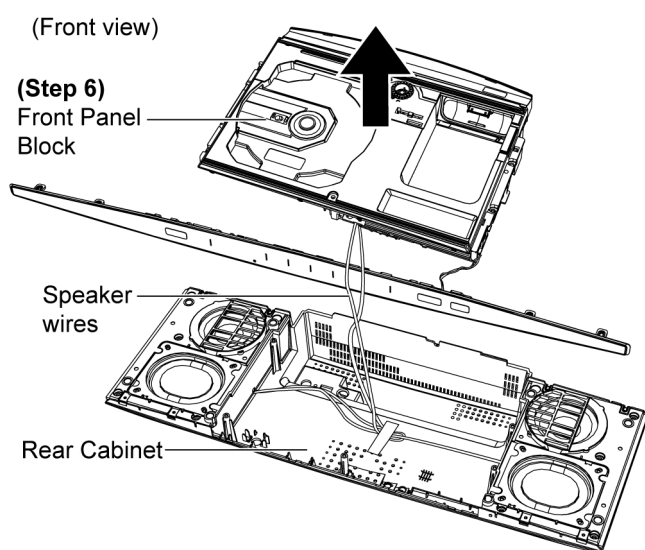


**Step 4 :** Press to release catch as arrow shown.

(Bottom view)



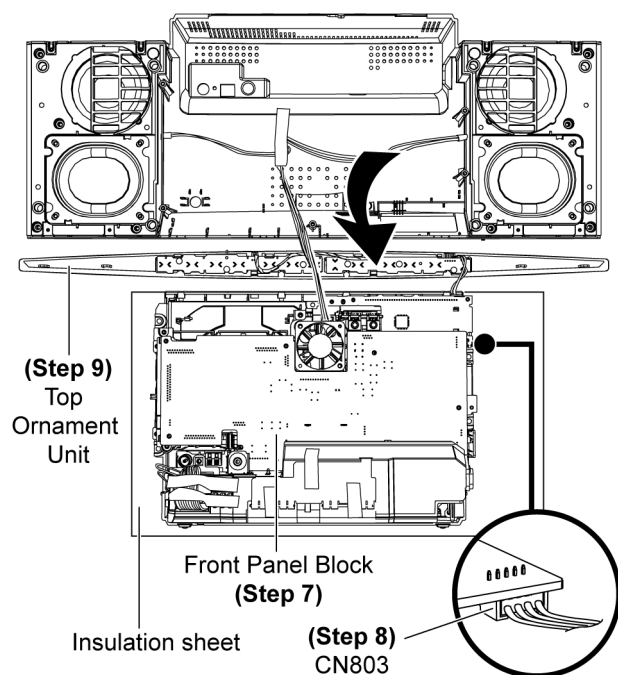
**Step 5 :** Press to release catches to lift up the Front Panel Block slightly as arrow shown.



**Step 10 :** Remove 6 screws.

**Step 11 :** Remove Panel 1 P.C.B. and Panel 2 P.C.B..

**Step 6 :** Lift up the Front Panel Block.



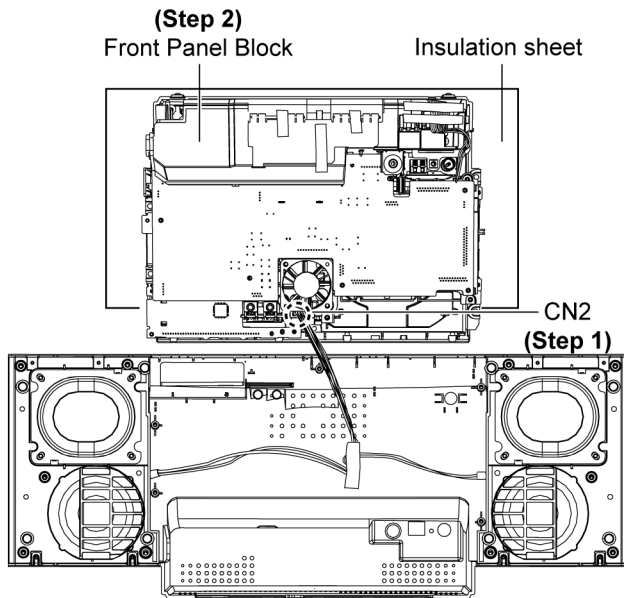
**Step 7 :** Upset the Front Panel Block as arrow shown.

**Step 8 :** Detach 5P cable at the connector (CN803) on Main P.C.B..

**Step 9 :** Remove Top Ornament Unit.

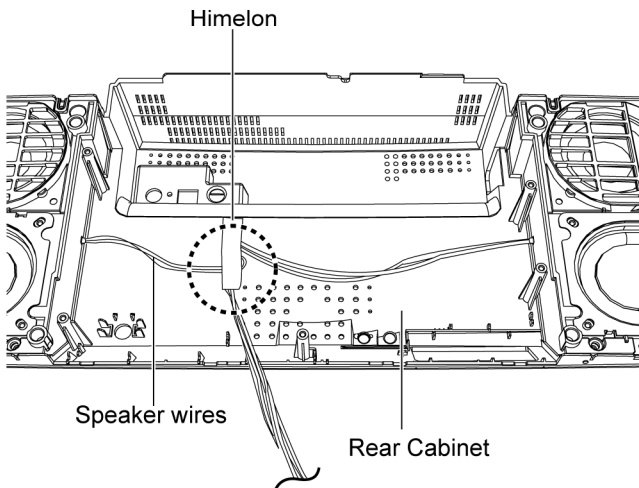
## 9.11. Disassembly of Front Panel Block

- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.
- Follow the (Step 1) - (Step 9) of item 9.10.



**Step 1 :** Detach 4P cable at the connector (CN2) on D-Amp P.C.B..

**Step 2 :** Remove the Front Panel Block.

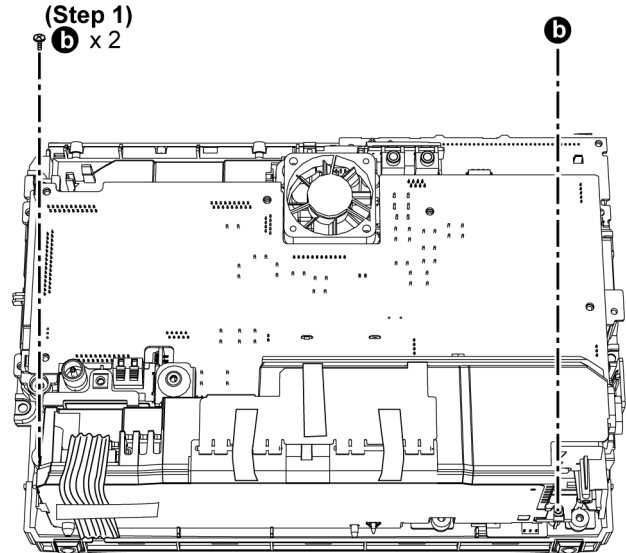


**Caution 1 :** During assembling of the Front Panel Block, ensure that the speaker wires are fitted into the holes on both sides of the Rear Cabinet as shown.

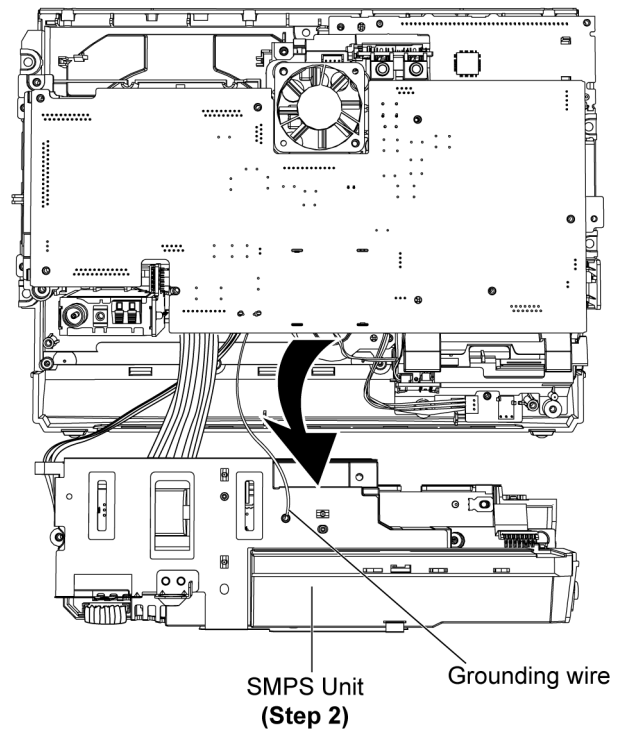
**Caution 2 :** During assembling of the Front Panel Block, replace himelon if it is torn.

## 9.12. Disassembly of Tuner Pack

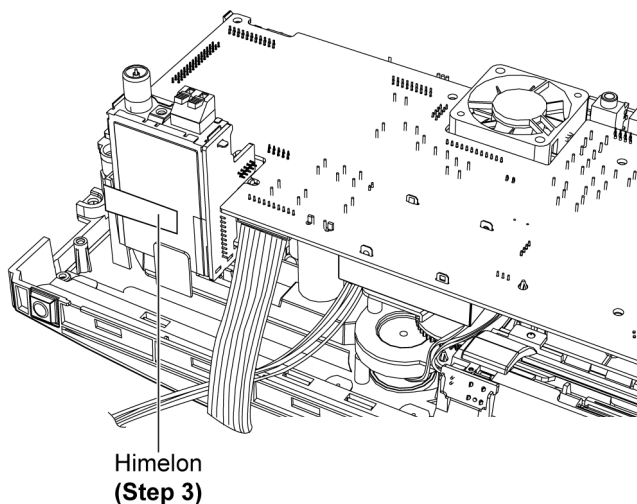
- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.
- Follow the (Step 1) - (Step 9) of item 9.10.
- Follow the (Step 1) - (Step 2) of item 9.11.



**Step 1 :** Remove 2 screws.

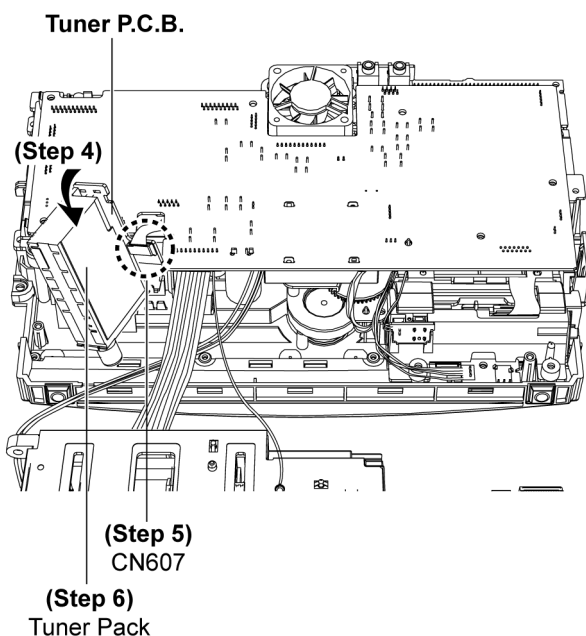


**Step 2 :** Lift up and flip over the SMPS Unit.



**Step 3 :** Lift up the himelon.

**Caution :** During assembling of Tuner Pack, replace himelon if it is torn.



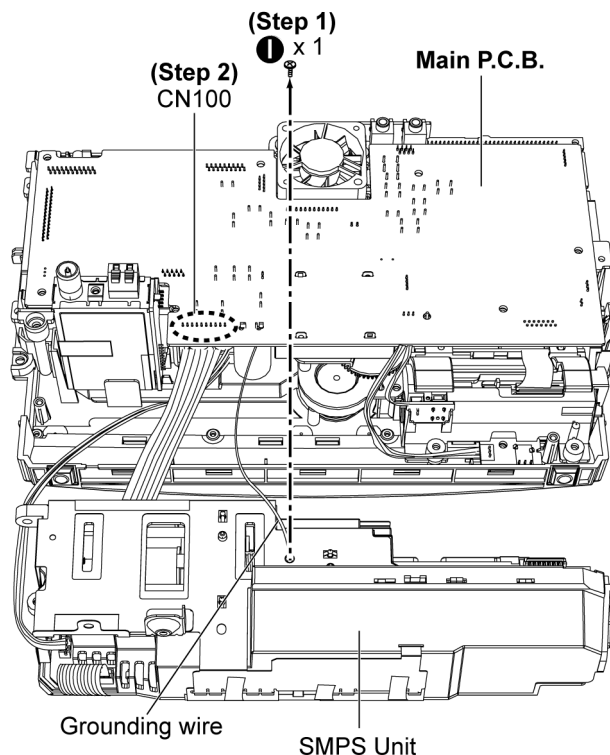
**Step 4 :** Tilt the Tuner Pack.

**Step 5 :** Detach 10P FFC cable at the connector (CN607) on the Tuner P.C.B..

**Step 6 :** Remove the Tuner Pack.

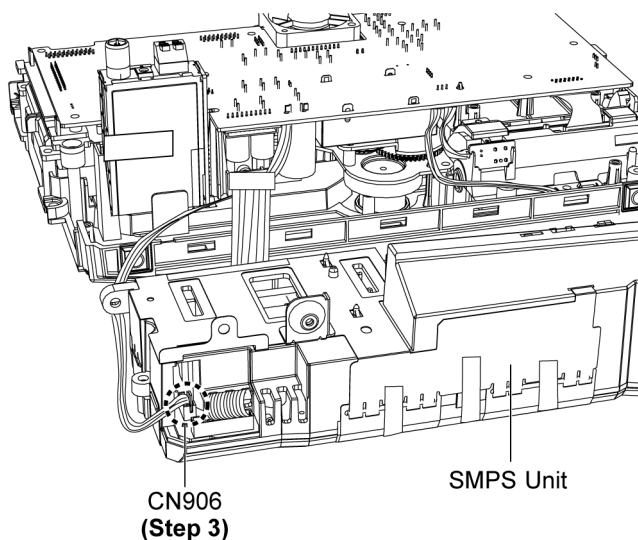
## 9.13. Disassembly of SMPS Unit

- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.
- Follow the (Step 1) - (Step 9) of item 9.10.
- Follow the (Step 1) - (Step 2) of item 9.11.
- Follow the (Step 1) - (Step 2) of item 9.12.

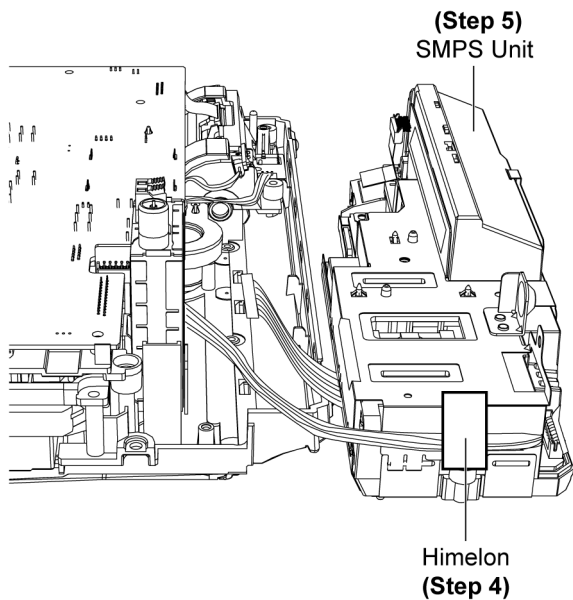


**Step 1 :** Remove 1 screw.

**Step 2 :** Detach 10P cable at the connector (CN100) on the Main P.C.B..



**Step 3 :** Detach 4P cable at the connector (CN906) on the SMPS P.C.B..



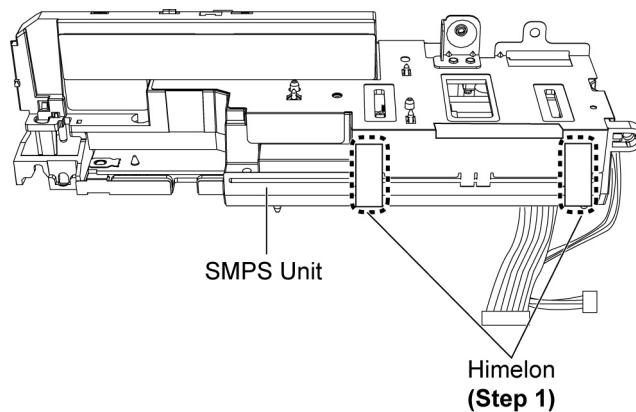
**Step 4 :** Lift up the himelon.

**Step 5 :** Remove SMPS Unit.

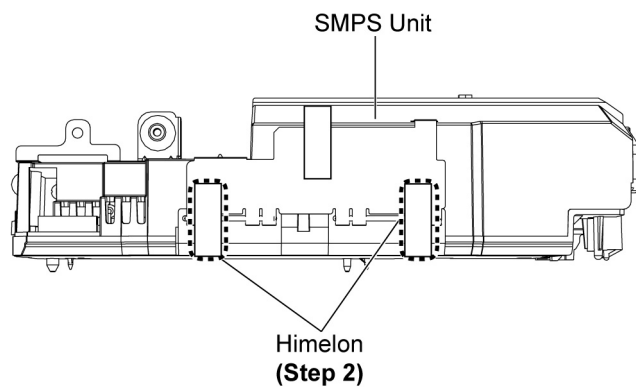
**Caution :** Replace himelon if it is torn .

## 9.14. Disassembly of AC IN P.C.B.

- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.
- Follow the (Step 1) - (Step 9) of item 9.10.
- Follow the (Step 1) - (Step 2) of item 9.11.
- Follow the (Step 1) - (Step 2) of item 9.12.
- Follow the (Step 1) - (Step 5) of item 9.13.



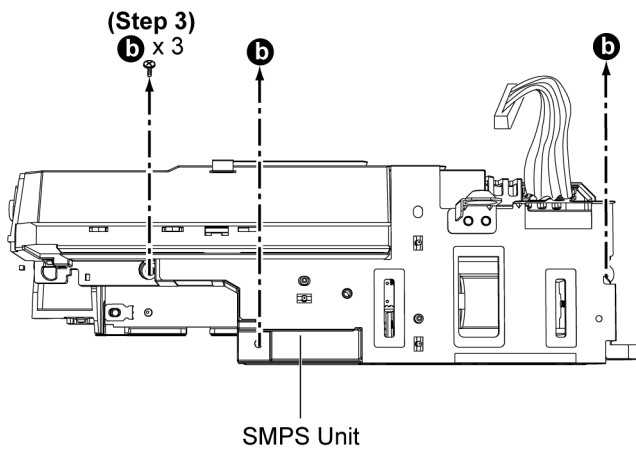
**Step 1 :** Lift up the himelon.



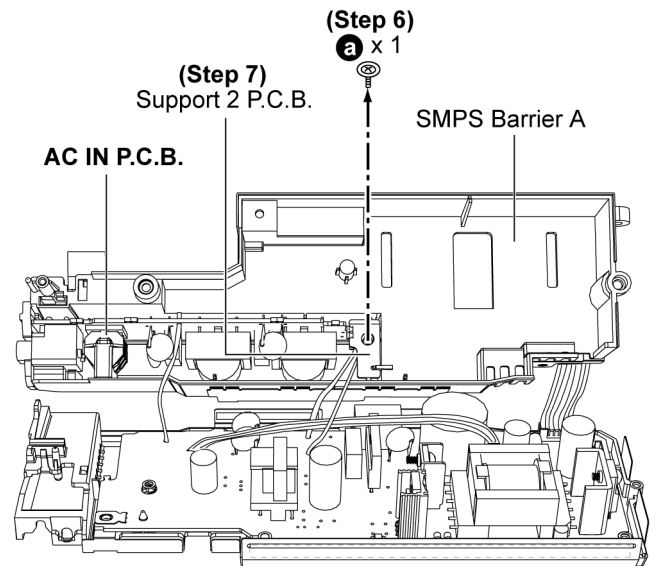
**Step 2 :** Lift up the himelon.

**Caution :** Replace himelon if it is torn.



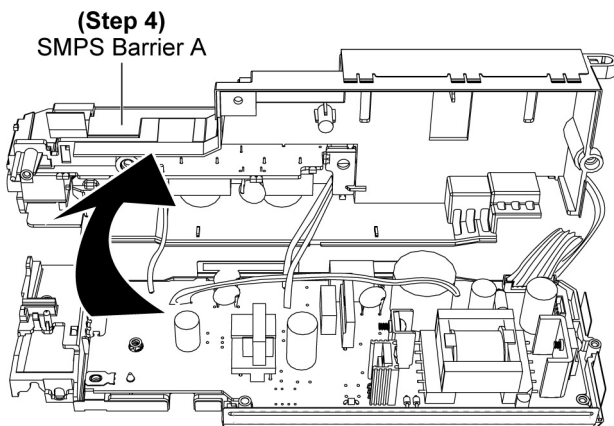


**Step 3 :** Remove 3 screws.

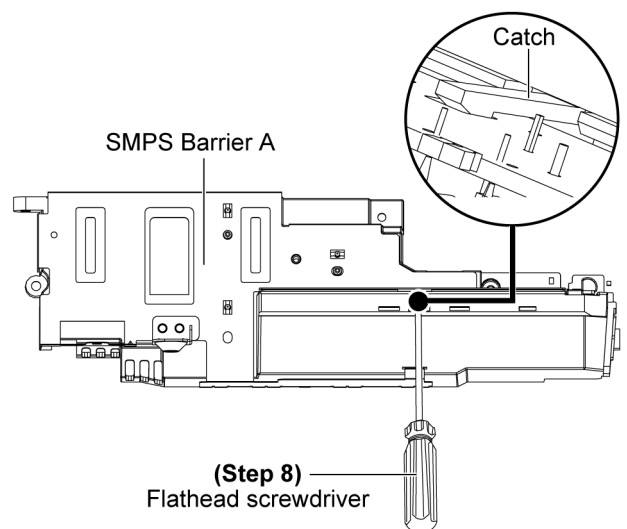


**Step 6 :** Remove 1 screw.

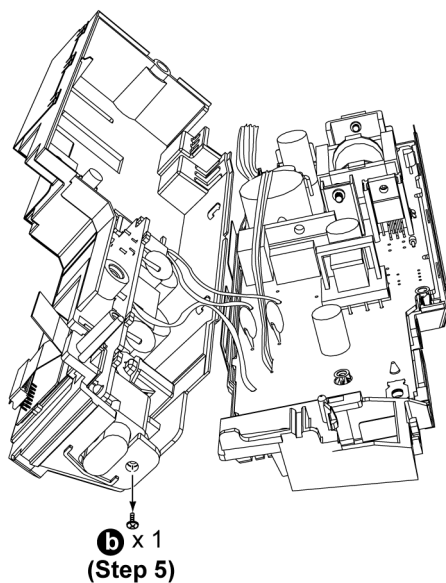
**Step 7 :** Remove Support 2 P.C.B..



**Step 4 :** Flip over SMPS Barrier A.



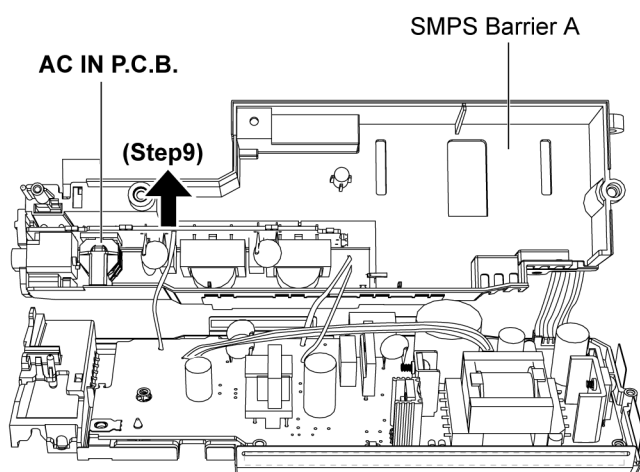
**Step 8 :** Using flathead screwdriver to release catch.



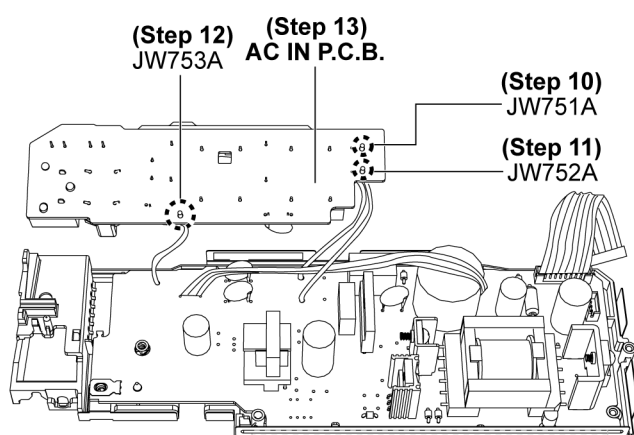
**Step 5 :** Remove 1 screw.

## 9.15. Disassembly of SMPS P.C.B.

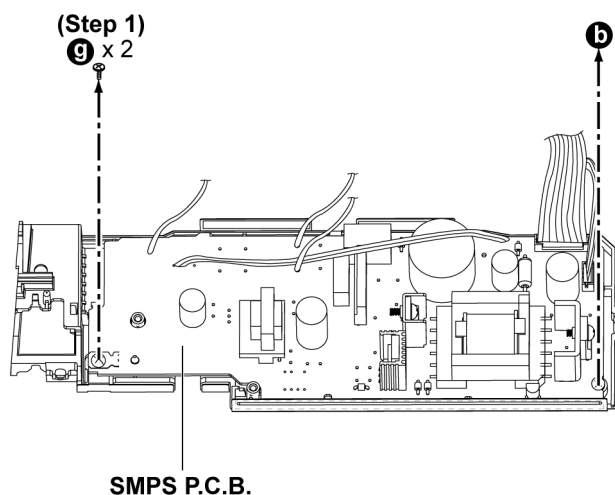
- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.
- Follow the (Step 1) - (Step 9) of item 9.10.
- Follow the (Step 1) - (Step 2) of item 9.11.
- Follow the (Step 1) - (Step 2) of item 9.12.
- Follow the (Step 1) - (Step 5) of item 9.13.
- Follow the (Step 1) - (Step 13) of item 9.14.



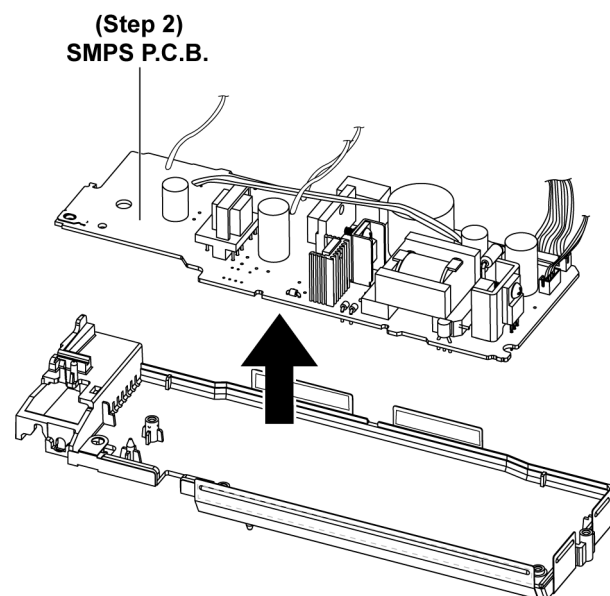
**Step 9 :** Remove the AC IN P.C.B..



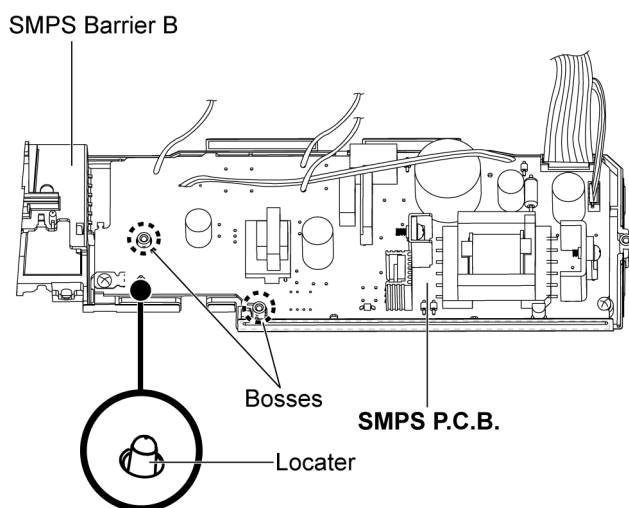
- Step 10 :** Desolder red wire (JW751A) on the AC IN P.C.B..  
**Step 11 :** Desolder black wire (JW752A) on the AC IN P.C.B..  
**Step 12 :** Desolder blue wire (JW753A) on the AC IN P.C.B..  
**Step 13 :** Remove the AC IN P.C.B..



**Step 1 :** Remove 2 screws.



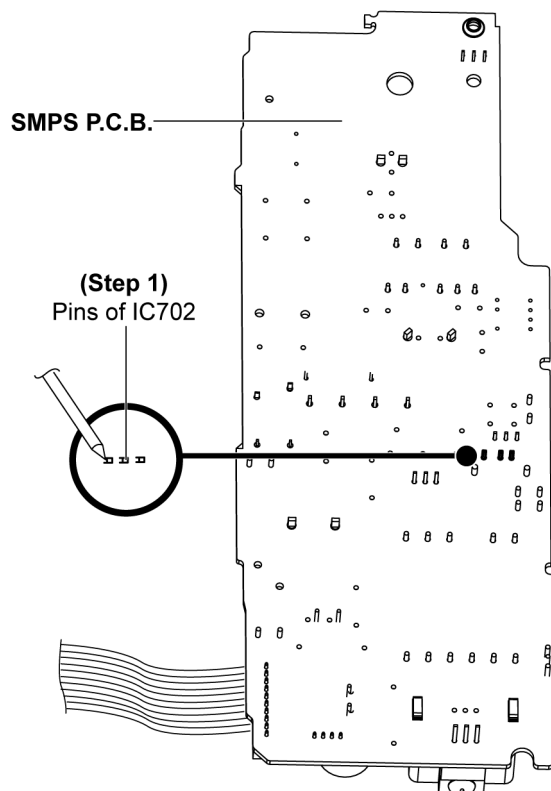
**Step 2 :** Remove the SMPS P.C.B..



**Caution :** During assembling ensure the SMPS P.C.B. is seated properly on the locator after assembled.

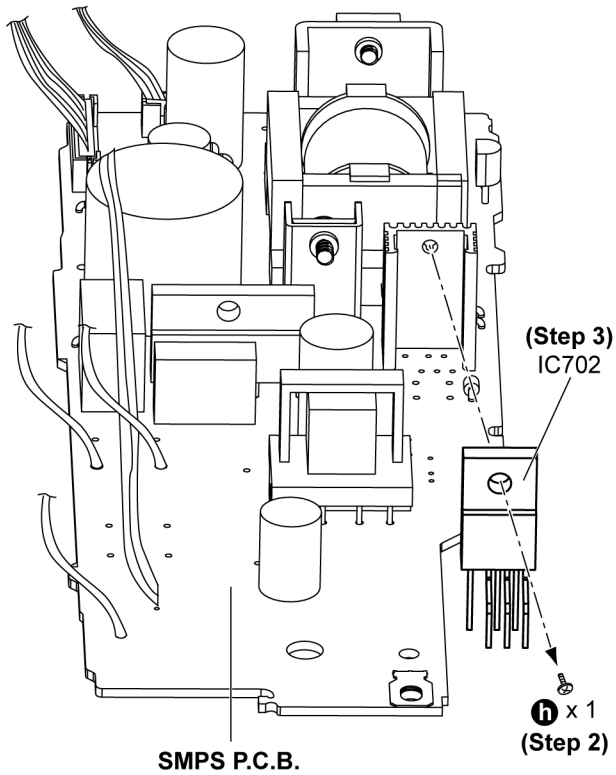
## 9.16. Replacement of Switching Regulator IC (IC702)

- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.
- Follow the (Step 1) - (Step 9) of item 9.10.
- Follow the (Step 1) - (Step 2) of item 9.11.
- Follow the (Step 1) - (Step 2) of item 9.12.
- Follow the (Step 1) - (Step 5) of item 9.13.
- Follow the (Step 1) - (Step 9) of item 9.14.
- Follow the (Step 1) - (Step 2) of item 9.15.



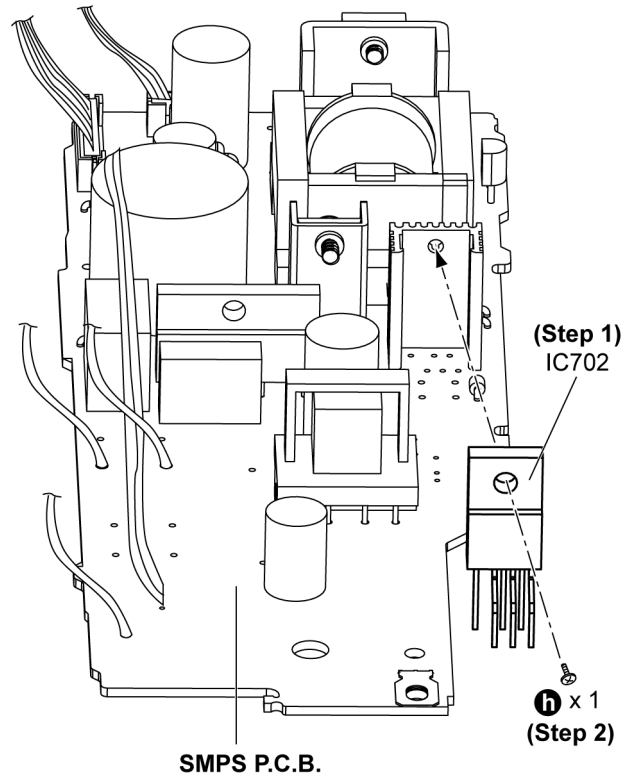
**Step 1 :** Desolder pins of Switching Regulator IC (IC702) on the solder side of SMPS P.C.B..

• **Assembly of Switching Regulator IC (IC702)**



**Step 2 :** Remove 1 screw.

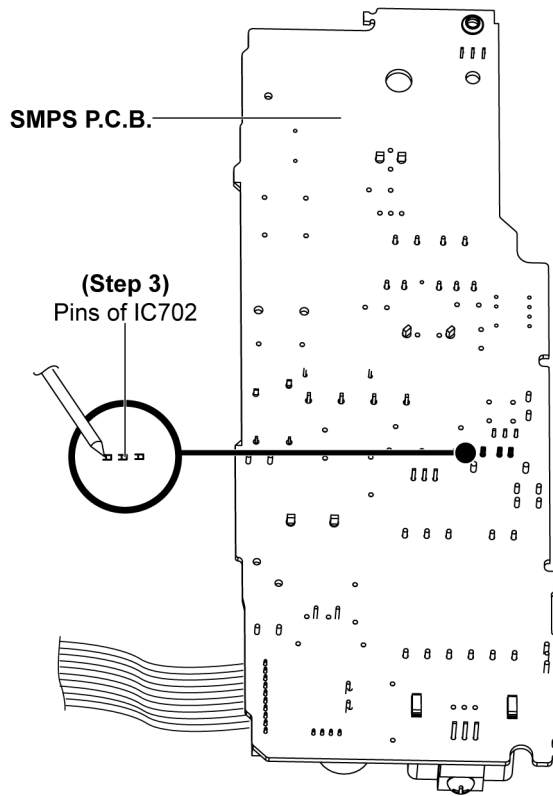
**Step 3 :** Remove Switching Regulator IC (IC702).



**Step 1 :** Install Switching Regulator IC (IC702) onto SMPS P.C.B..

**Step 2 :** Fix the Switching Regulator IC (IC702) onto the heat-sink unit with 1 screw.

**Caution :** Ensure the pins are inserted & seated properly on the SMPS P.C.B..



**Step 3 :** Solder pins of the Switching Regulator IC (IC702) on the solder side of SMPS P.C.B..

**Caution :** Check for solderability of the Switching Regulator IC (IC702).

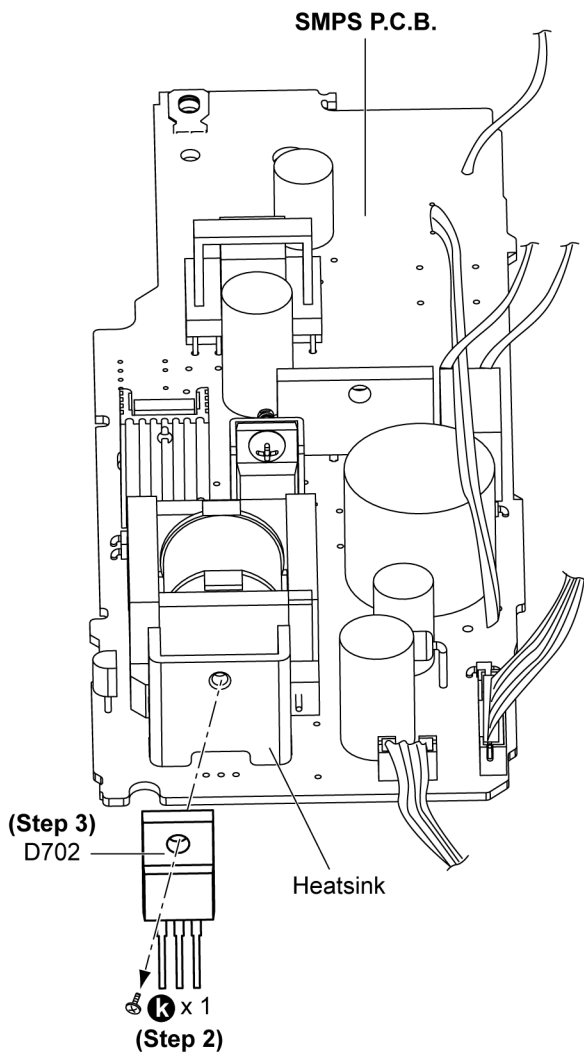
## 9.17. Replacement of Diode (D702)

- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.
- Follow the (Step 1) - (Step 9) of item 9.10.
- Follow the (Step 1) - (Step 2) of item 9.11.
- Follow the (Step 1) - (Step 2) of item 9.12.
- Follow the (Step 1) - (Step 5) of item 9.13.
- Follow the (Step 1) - (Step 9) of item 9.14.
- Follow the (Step 1) - (Step 2) of item 9.15.



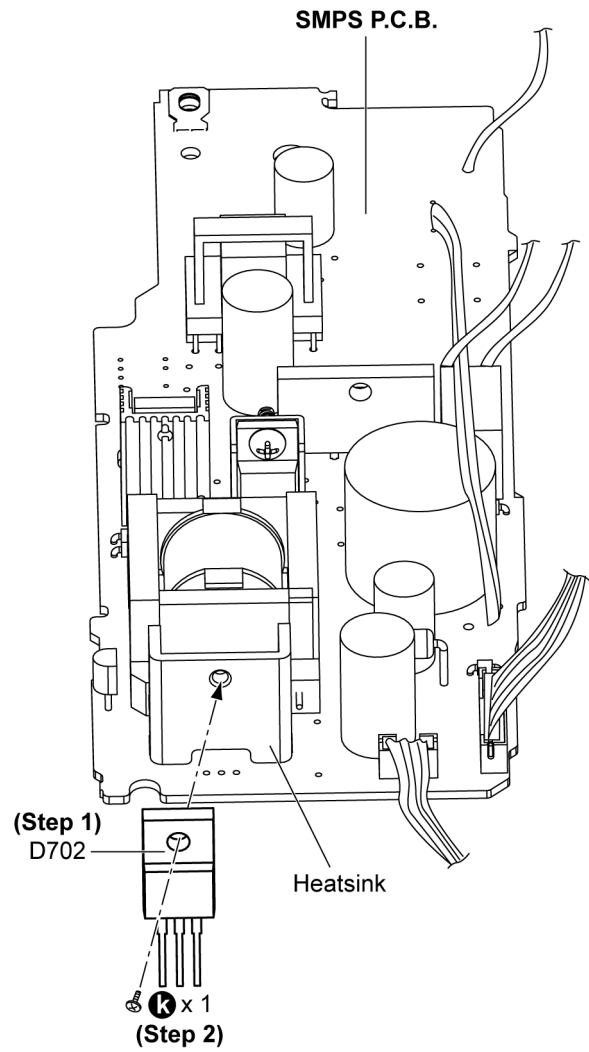
**Step 1 :** Desolder pins of Diode (D702) on the solder side of SMPS P.C.B..

• Assembly of Diode (D702)



**Step 2 :** Remove 1 screw.

**Step 3 :** Remove Diode (D702).



**Step 1 :** Install Diode (D702) onto SMPS P.C.B..

**Step 2 :** Fix the Diode (D702) onto the heatsink unit with 1 screw.

**Caution :** Ensure the pins are inserted & seated properly on the SMPS P.C.B..

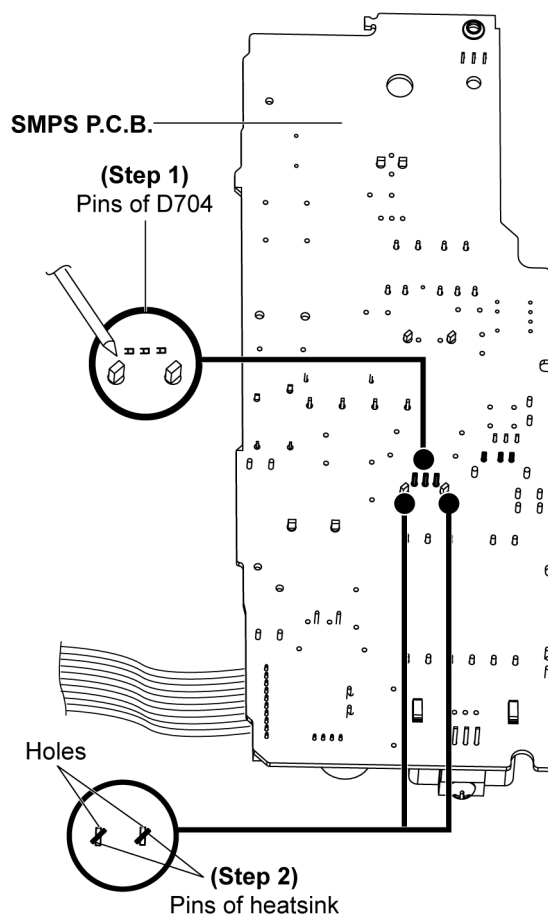


**Step 3 :** Solder pins of the Diode (D702) on the solder side of SMPS P.C.B..

**Caution :** Check for solderability of the Diode (D702).

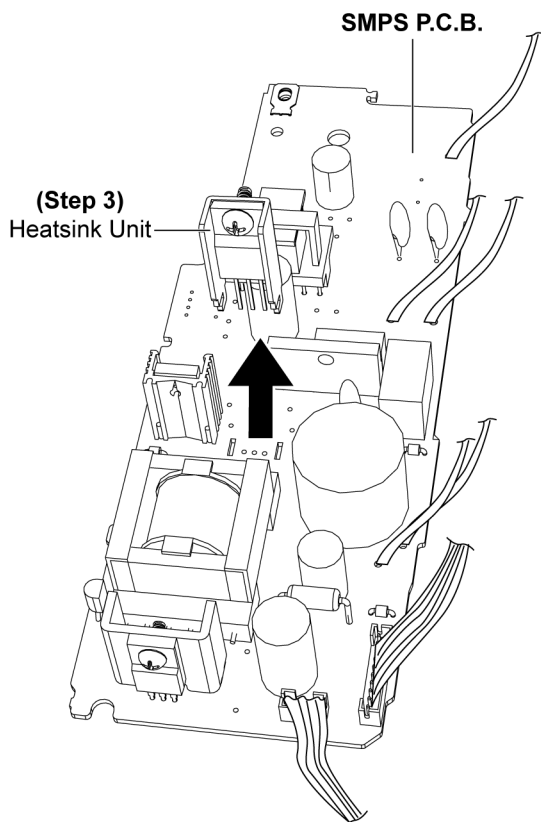
## 9.18. Replacement of Diode (D704)

- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.
- Follow the (Step 1) - (Step 9) of item 9.10.
- Follow the (Step 1) - (Step 2) of item 9.11.
- Follow the (Step 1) - (Step 2) of item 9.12.
- Follow the (Step 1) - (Step 5) of item 9.13.
- Follow the (Step 1) - (Step 9) of item 9.14.
- Follow the (Step 1) - (Step 2) of item 9.15.

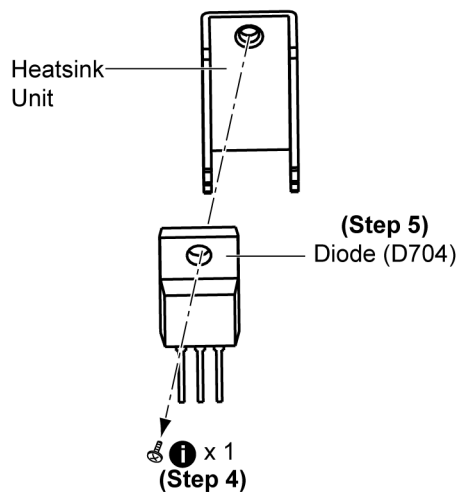


**Step 1 :** Desolder pins of Diode (D704) on the solder side of SMPS P.C.B..

**Step 2 :** Twist the pins of heatsink unit.



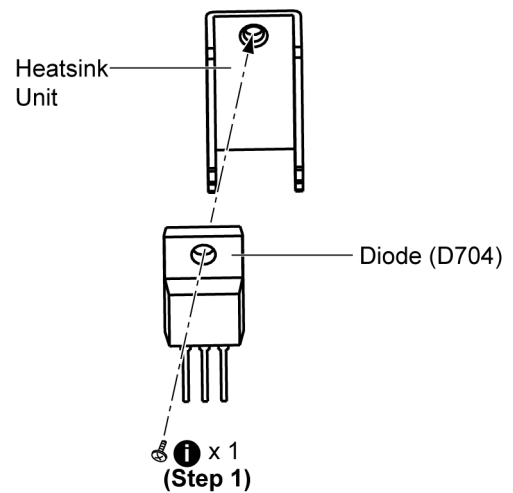
**Step 3 :** Remove the heatsink unit with Diode (D704) as arrow shown.



**Step 4 :** Remove 1 screw.

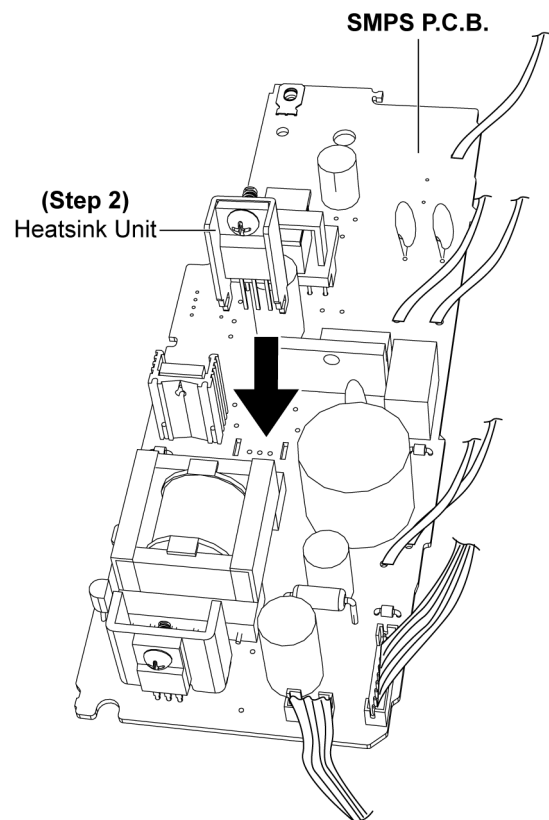
**Step 5 :** Remove Diode (D704).

#### • Assembly of Diode (D704)



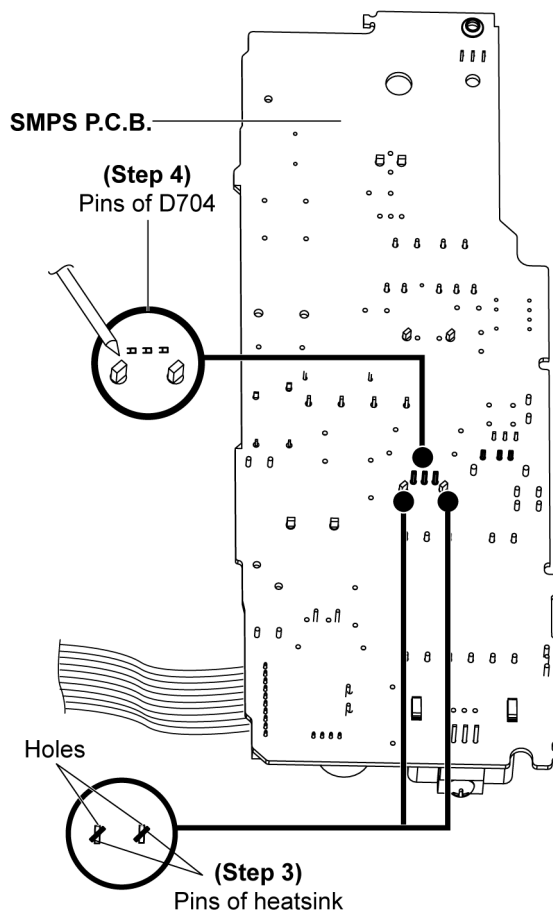
**Step 1 :** Fix the Diode (D704) onto the heatsink unit with 1 screw.

**Caution :** Ensure the Diode (D704) is tightly screwed to the heatsink unit.



**Step 2 :** Fix the heatsink unit with Diode (D704) onto the SMPS P.C.B..





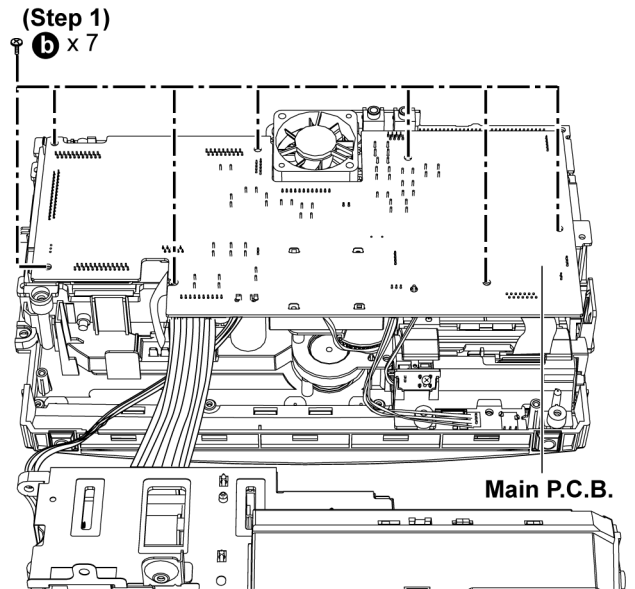
**Step 3 :** Twist the pins of heatsink unit.

**Step 5 :** Solder pins of Diode (D704) onto the solder side of the SMPS P.C.B..

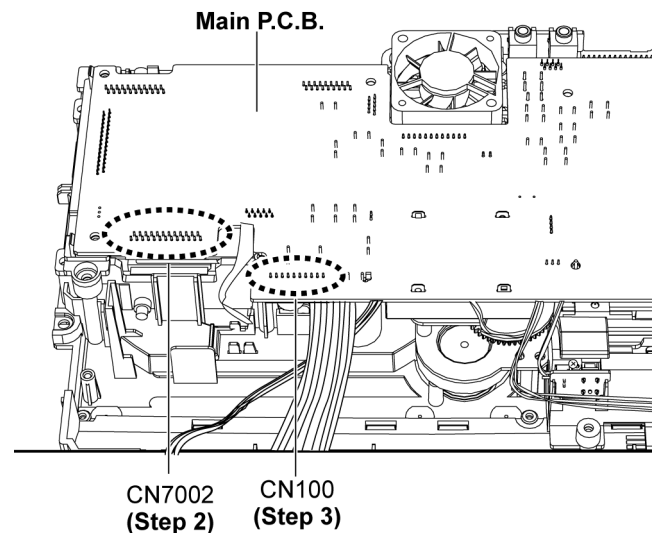
**Caution :** Ensure that pins of Diode (D702) are properly seated and soldered onto the SMPS P.C.B..

## 9.19. Disassembly of Main P.C.B.

- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.
- Follow the (Step 1) - (Step 9) of item 9.10.
- Follow the (Step 1) - (Step 2) of item 9.11.
- Follow the (Step 1) - (Step 6) of item 9.12.
- Follow the (Step 1) of item 9.13.

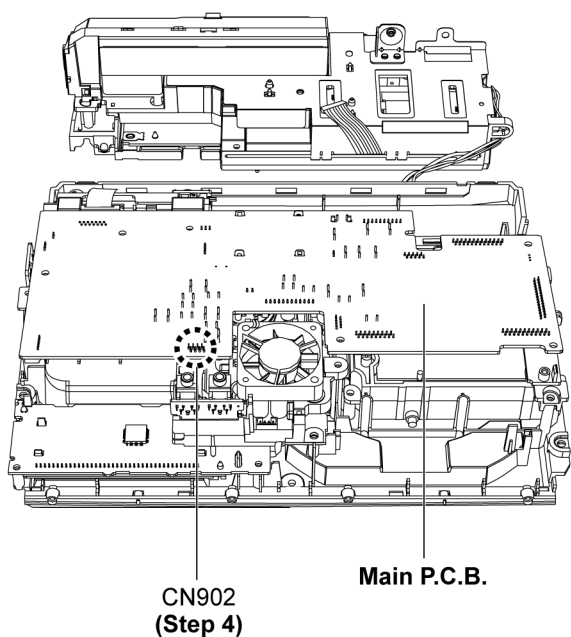


**Step 1 :** Remove 7 screws.

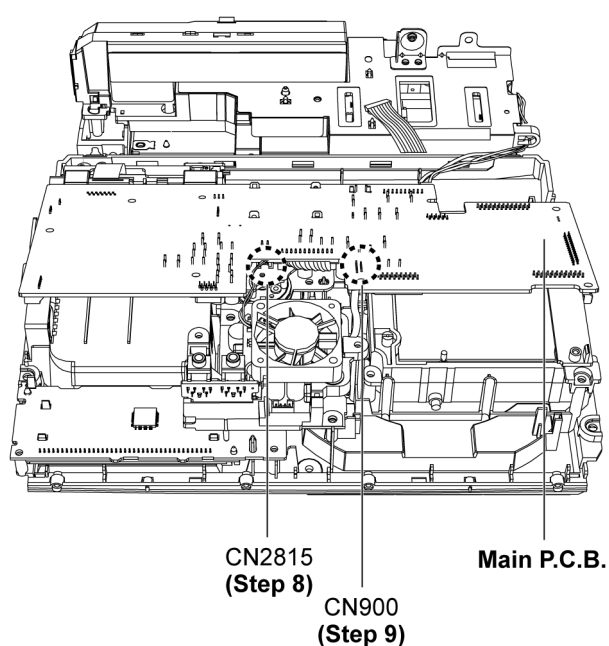


**Step 2 :** Detach 25P FFC cable at the connector (CN7002) on the Main P.C.B..

**Step 3 :** Detach 10P cable at the connector (CN100) on the Main P.C.B..

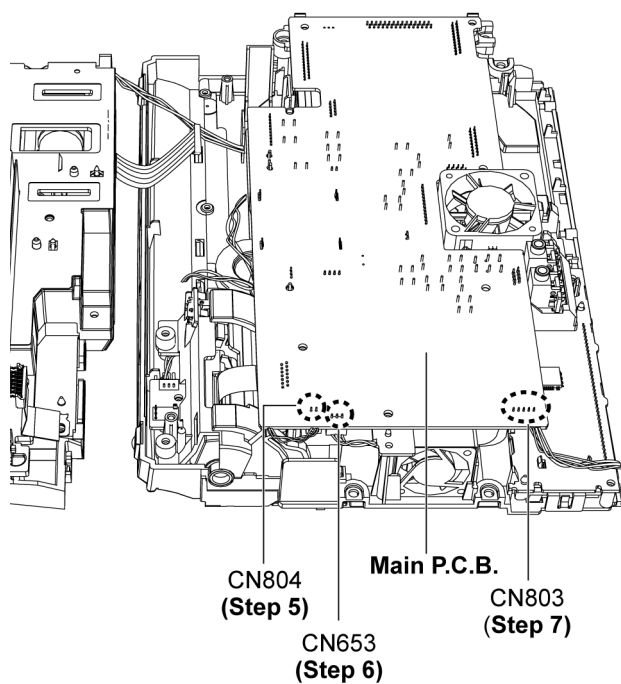


**Step 4 :** Detach 8P FFC cable at the connector (CN902) on the Main P.C.B..



**Step 8 :** Detach 2P cable at the connector (CN2815) on the Main P.C.B..

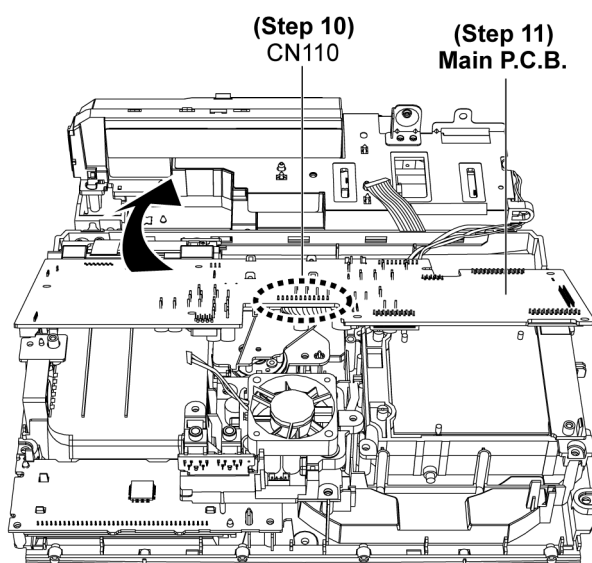
**Step 9 :** Detach 9P FFC cable at the connector (CN900) on the Main P.C.B..



**Step 5 :** Detach 2P cable at the connector (CN804) on the Main P.C.B..

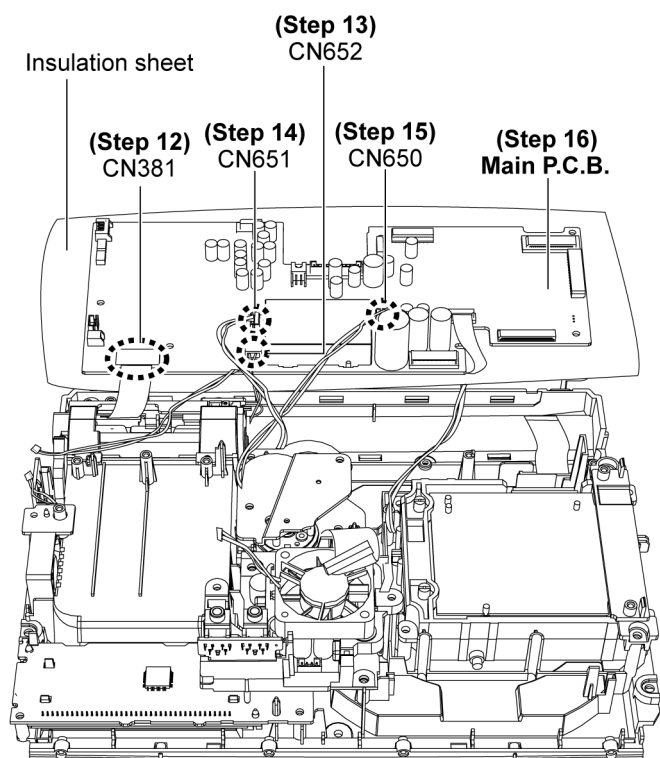
**Step 6 :** Detach 3P cable at the connector (CN653) on the Main P.C.B..

**Step 7 :** Detach 5P cable at the connector (CN803) on the Main P.C.B..



**Step 10 :** Detach 12P cable at the connector (CN110) on the Main P.C.B..

**Step 11 :** Flip over the Main P.C.B. as arrow shown.



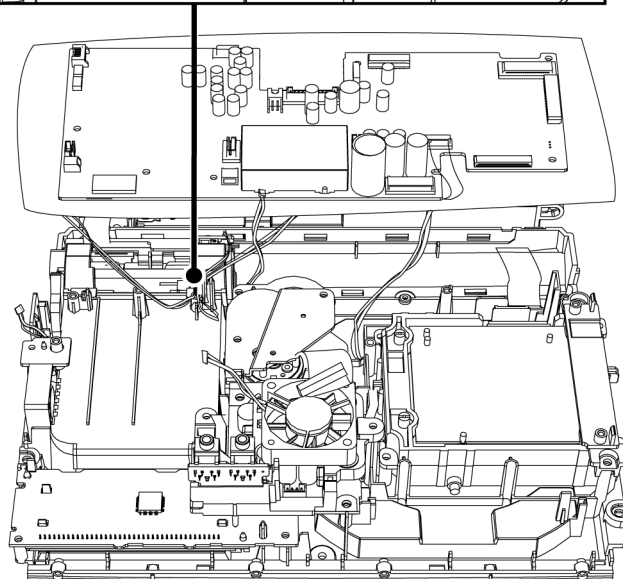
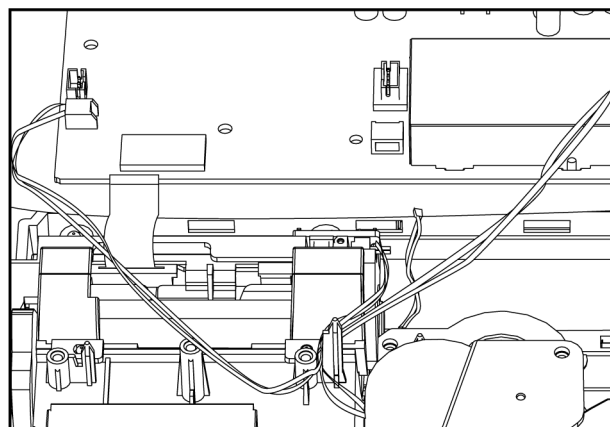
**Step 12 :** Detach 14P FFC cable at the connector (CN381) on the Main P.C.B..

**Step 13 :** Detach 3P cable at the connector (CN652) on the Main P.C.B..

**Step 14 :** Detach 4P cable at the connector (CN651) on the Main P.C.B..

**Step 15 :** Detach 2P cable at the connector (CN650) on the Main P.C.B..

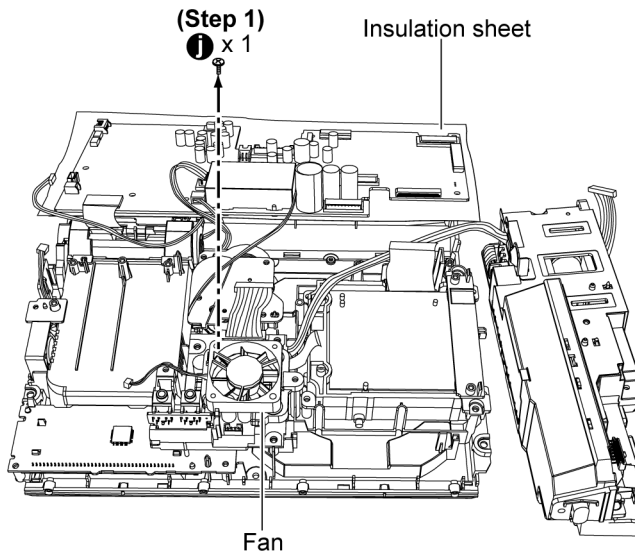
**Step 16 :** Remove the Main P.C.B..



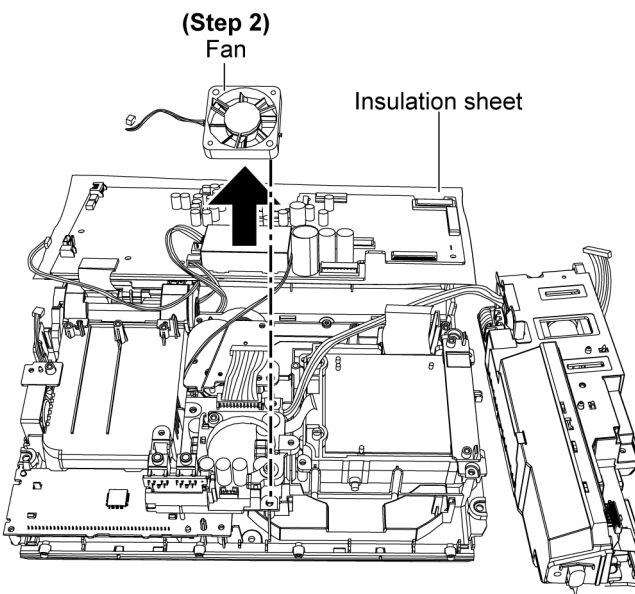
**Caution :** Ensure that all wires are properly dressed as shown during assembling of the Main P.C.B..

## 9.20. Disassembly of Fan

- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.
- Follow the (Step 1) - (Step 9) of item 9.10.
- Follow the (Step 1) - (Step 2) of item 9.11.
- Follow the (Step 1) - (Step 2) of item 9.12.
- Follow the (Step 1) of item 9.13.
- Follow the (Step 1) - (Step 11) of item 9.19.



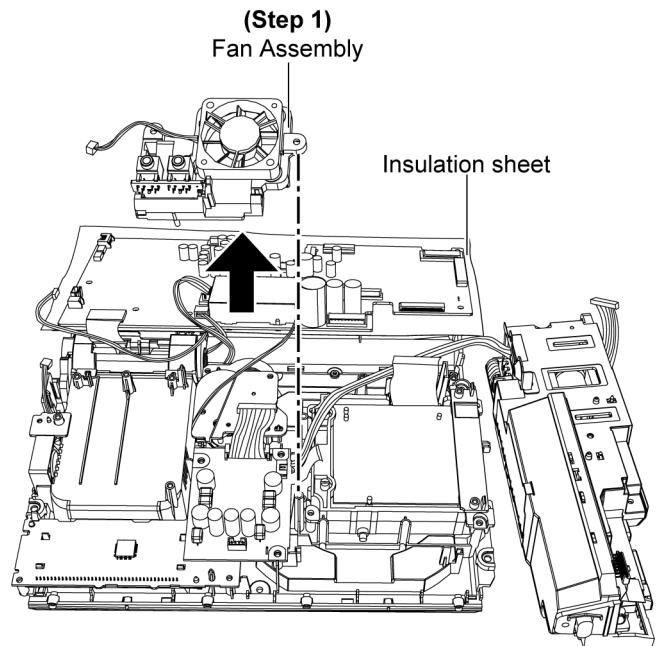
**Step 1 :** Remove 1 screw.



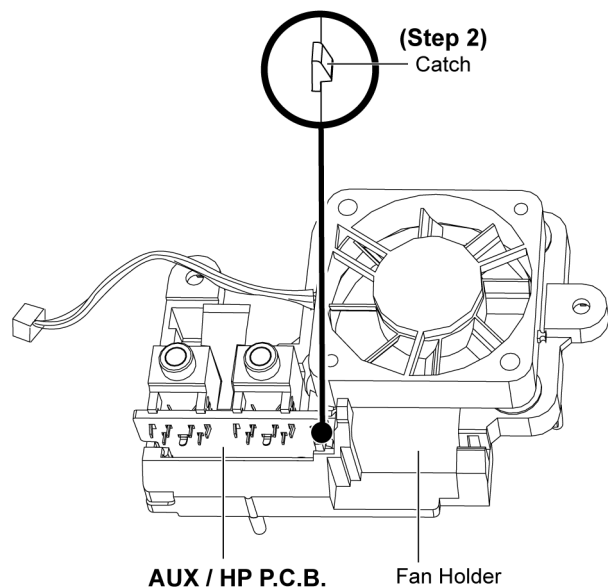
**Step 2 :** Remove the Fan.

## 9.21. Disassembly of AUX / HP P.C.B.

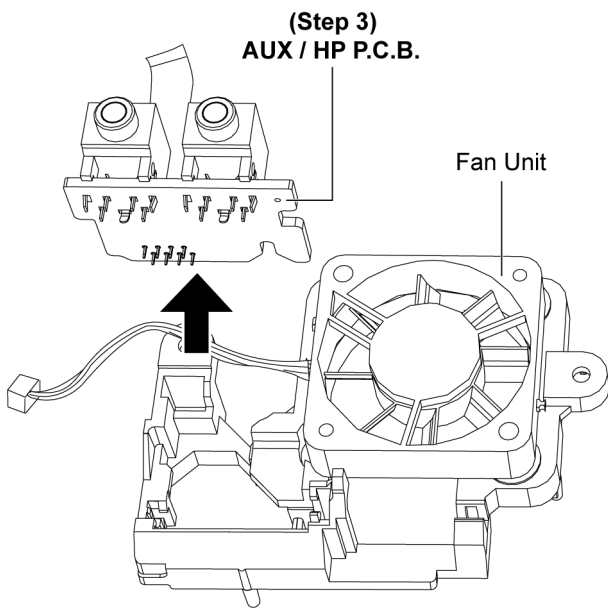
- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.
- Follow the (Step 1) - (Step 9) of item 9.10.
- Follow the (Step 1) - (Step 2) of item 9.11.
- Follow the (Step 1) - (Step 2) of item 9.12.
- Follow the (Step 1) of item 9.13.
- Follow the (Step 1) - (Step 11) of item 9.19.



**Step 1 :** Remove the Fan Assembly.



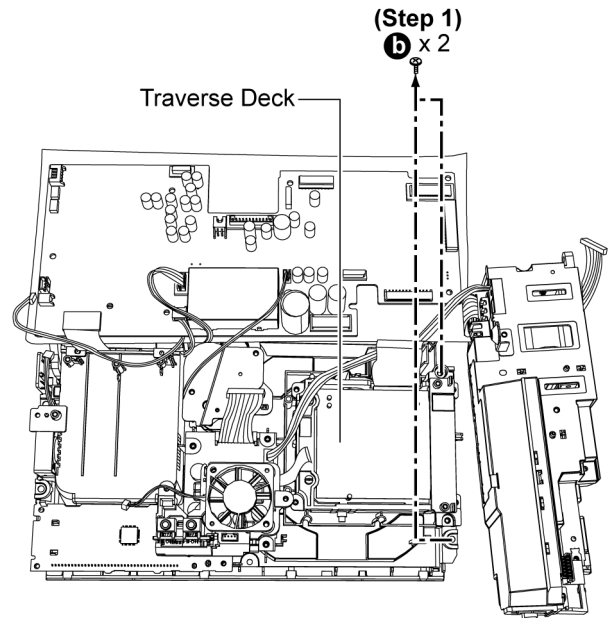
**Step 2 :** Release the catch on the Chassis unit.  
**Caution :** Ensure the Aux/HP P.C.B. fix onto the Fan Holder.



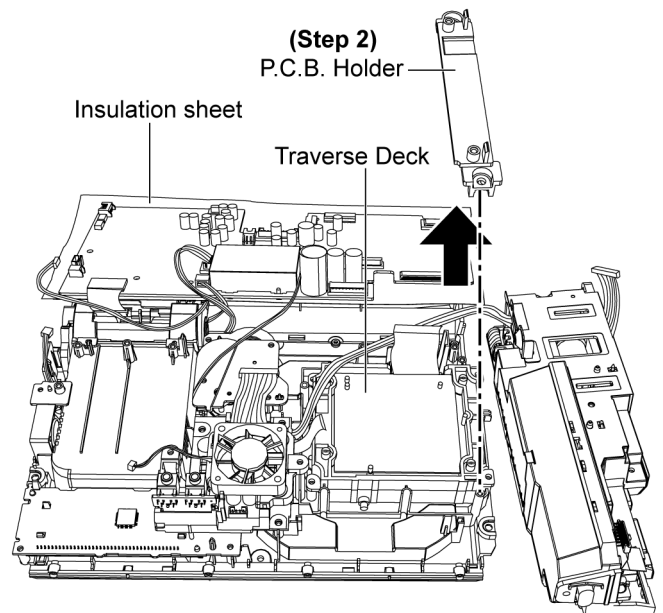
**Step 3 :** Remove the AUX / HP P.C.B..

## 9.22. Disassembly of Traverse Deck

- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.
- Follow the (Step 1) - (Step 9) of item 9.10.
- Follow the (Step 1) - (Step 2) of item 9.11.
- Follow the (Step 1) - (Step 2) of item 9.12.
- Follow the (Step 1) of item 9.13.
- Follow the (Step 1) - (Step 11) of item 9.19.



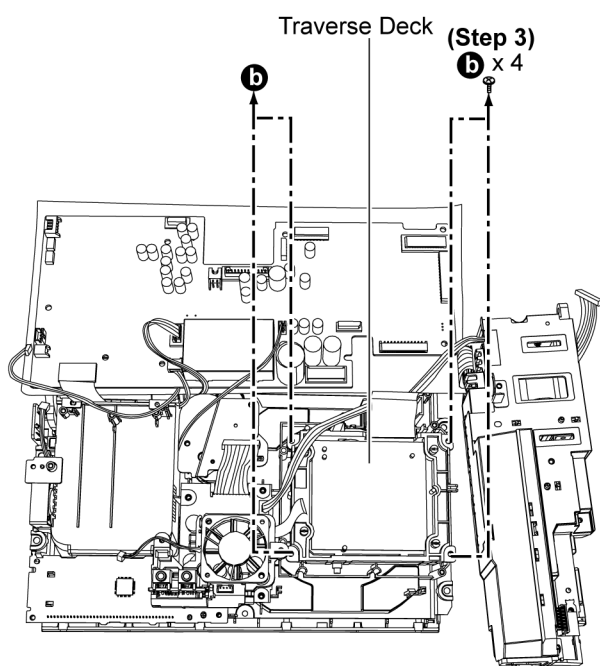
**Step 1 :** Remove 2 screws.



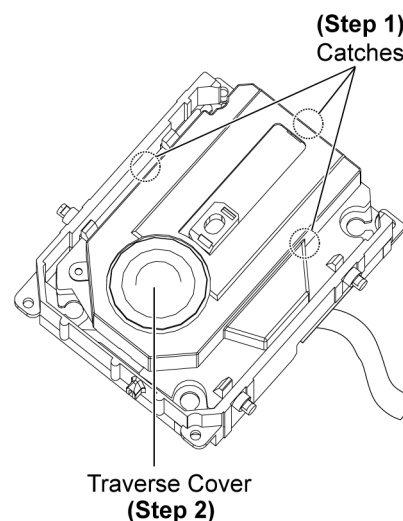
**Step 2 :** Remove the P.C.B. holder.

## 9.23. Disassembly of Traverse Cover & Traverse Unit

- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.
- Follow the (Step 1) - (Step 9) of item 9.10.
- Follow the (Step 1) - (Step 2) of item 9.11.
- Follow the (Step 1) - (Step 2) of item 9.12.
- Follow the (Step 1) of item 9.13.
- Follow the (Step 1) - (Step 11) of item 9.19.
- Follow the (Step 1) - (Step 4) of item 9.22.

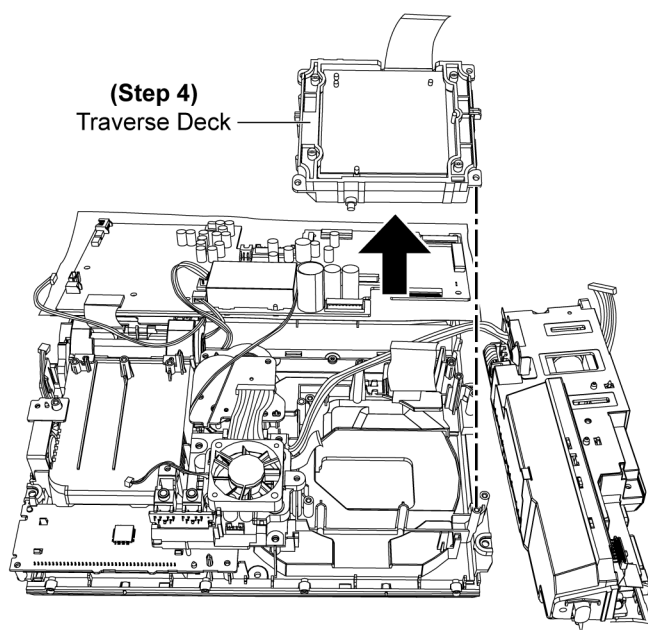


**Step 3 :** Remove 4 screws.

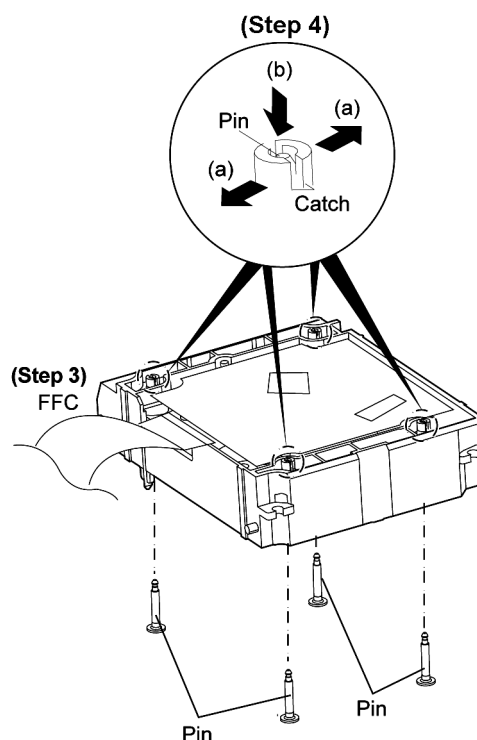


**Step 1 :** Release 3 catches.

**Step 2 :** Remove the Traverse Cover.

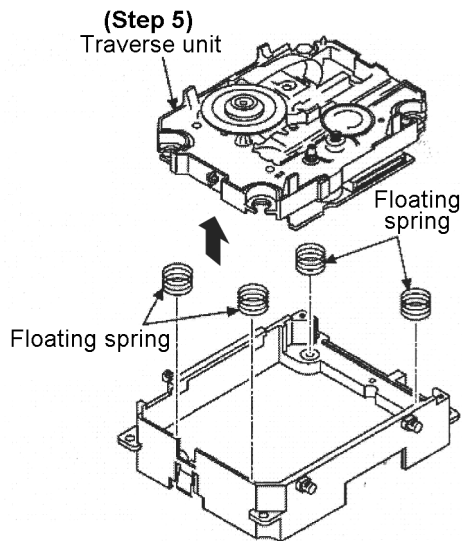


**Step 4 :** Remove the Traverse Deck.



**Step 3 :** Pull out FFC cable.

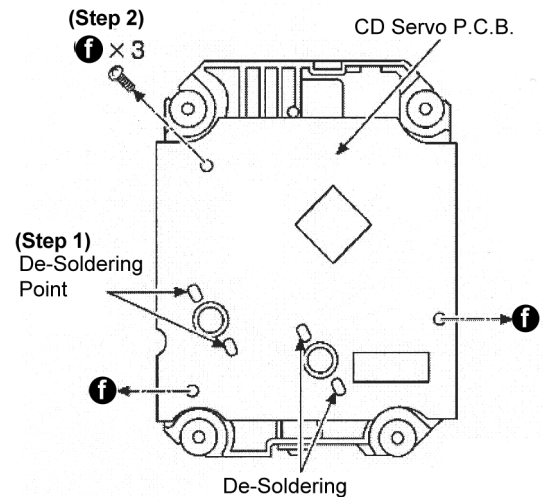
**Step 4 :** Widening the catch, push the fixed pin in. (a) → (b).



**Step 5 :** Lift up the traverse unit to remove it.

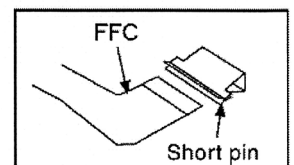
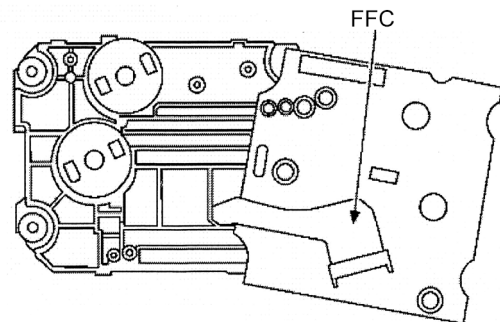
## 9.24. Disassembly of CD Servo P.C.B.

- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.
- Follow the (Step 1) - (Step 9) of item 9.10.
- Follow the (Step 1) - (Step 2) of item 9.11.
- Follow the (Step 1) - (Step 2) of item 9.12.
- Follow the (Step 1) of item 9.13.
- Follow the (Step 1) - (Step 11) of item 9.19.
- Follow the (Step 1) - (Step 4) of item 9.22.
- Follow the (Step 1) - (Step 5) of item 9.23.



**Step 1 :** Desolder the terminal.

**Step 2 :** Remove 3 screws.



**Step 3 :** Flip the CD Servo P.C.B. over to one side.

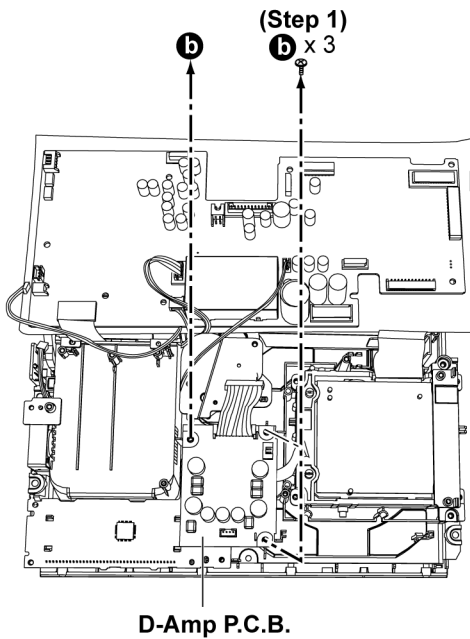
**Step 4 :** Detach FFC out from the connector.

**Step 5 :** Attach a short pin to the unit.

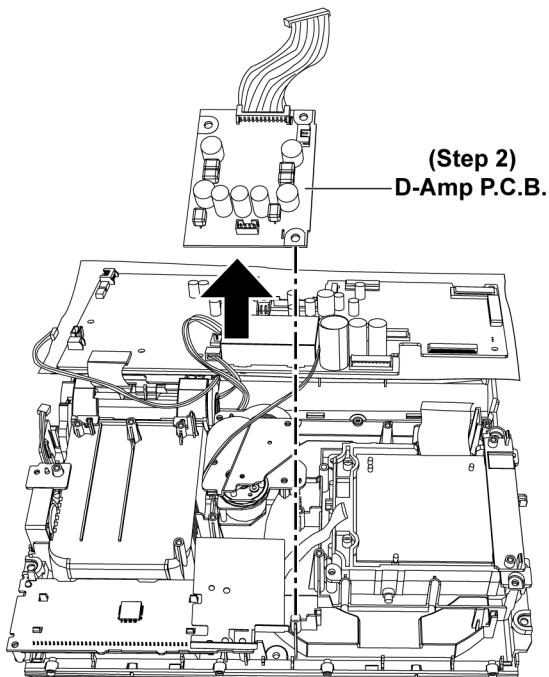
**Caution :** Insert a short pin into FFC of the optical pickup.  
[See "Handling Precautions for traverse unit"]

## 9.25. Disassembly of D-Amp P.C.B.

- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.
- Follow the (Step 1) - (Step 9) of item 9.10.
- Follow the (Step 1) - (Step 2) of item 9.11.
- Follow the (Step 1) - (Step 2) of item 9.12.
- Follow the (Step 1) of item 9.13.
- Follow the (Step 1) - (Step 11) of item 9.19.
- Follow the (Step 1) of item 9.21.



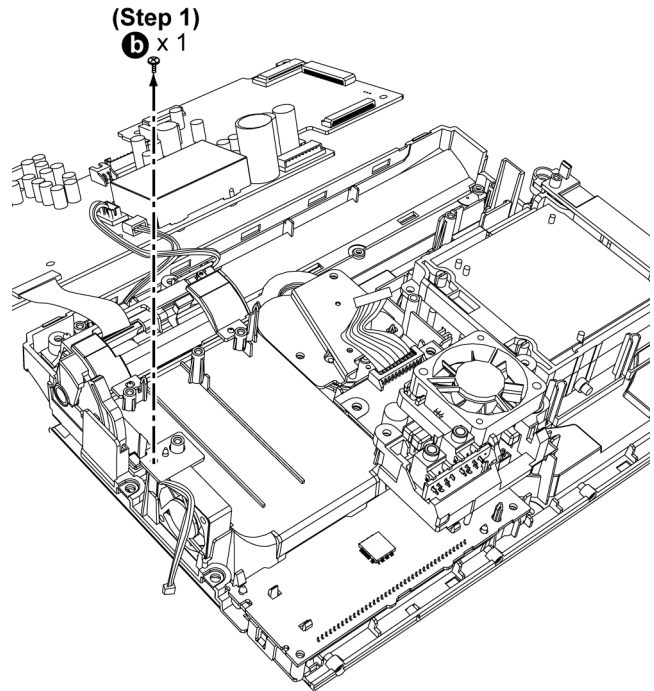
**Step 1 :** Remove 3 screws.



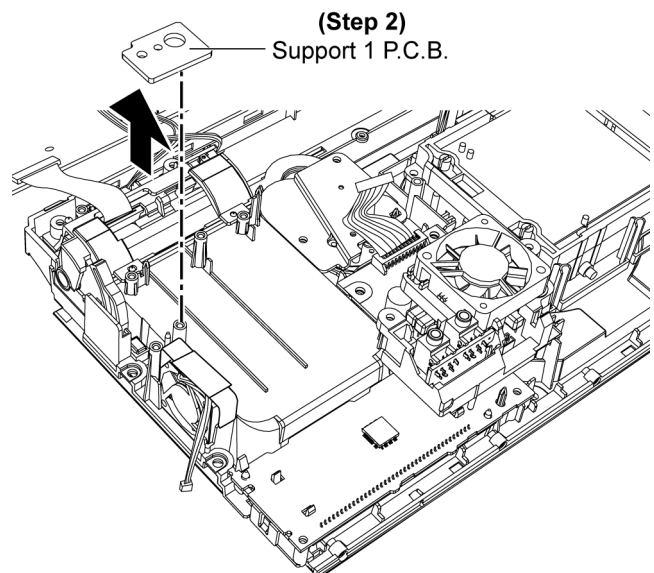
**Step 2 :** Remove the D-Amp P.C.B..

## 9.26. Disassembly of Fan Unit (iPod)

- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.
- Follow the (Step 1) - (Step 9) of item 9.10.
- Follow the (Step 1) - (Step 2) of item 9.11.
- Follow the (Step 1) - (Step 2) of item 9.12.
- Follow the (Step 1) of item 9.13.
- Follow the (Step 1) - (Step 11) of item 9.19.

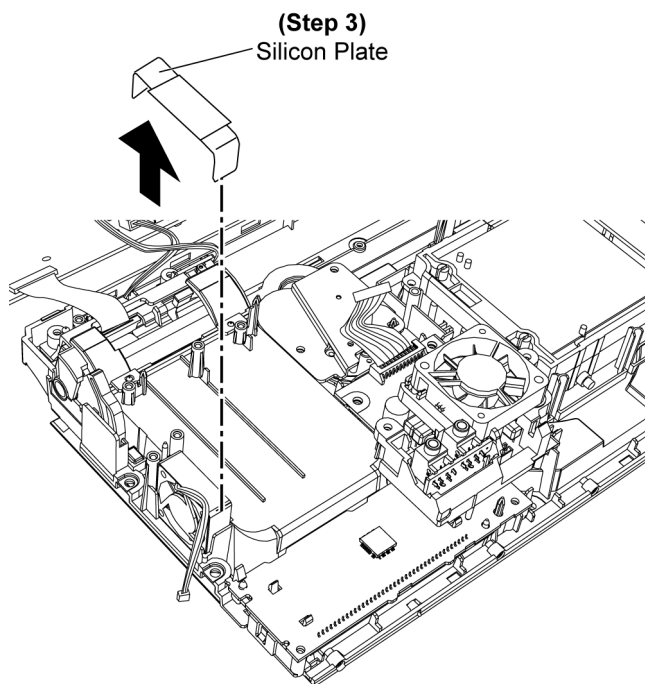


**Step 1 :** Remove 1 screw.

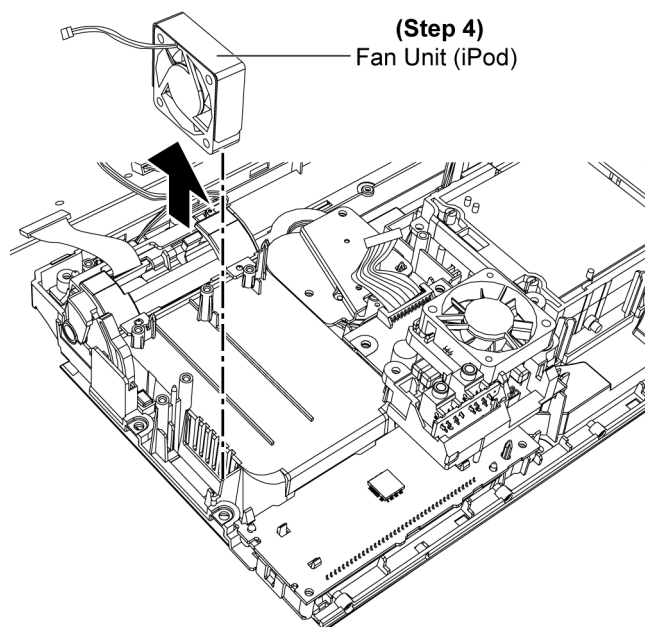


**Step 2 :** Remove the support 1 P.C.B..





**Step 3 :** Remove the silicon plate.

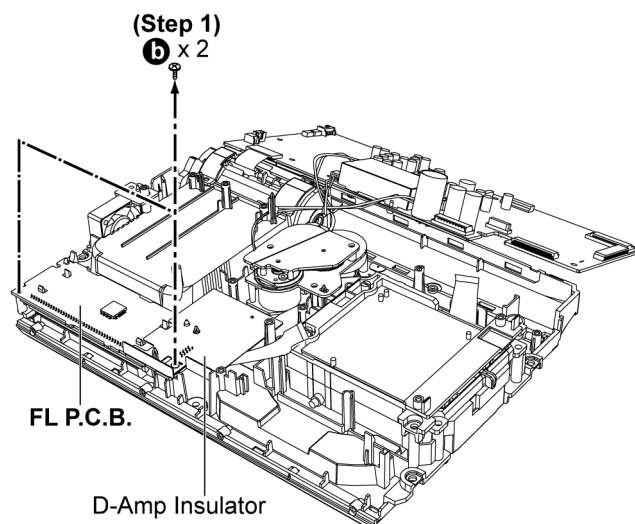


**Step 4 :** Remove the Fan Unit (iPod).

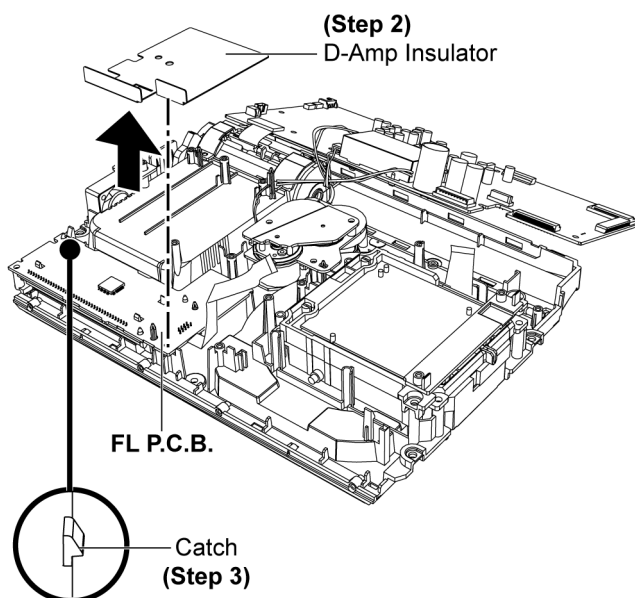
**Caution :** During assembling ensure the fan unit (iPod) is seated properly.

## 9.27. Disassembly of FL P.C.B.

- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.
- Follow the (Step 1) - (Step 9) of item 9.10.
- Follow the (Step 1) - (Step 2) of item 9.11.
- Follow the (Step 1) - (Step 2) of item 9.12.
- Follow the (Step 1) of item 9.13.
- Follow the (Step 1) - (Step 11) of item 9.19.
- Follow the (Step 1) of item 9.21.
- Follow the (Step 1) - (Step 2) of item 9.25.

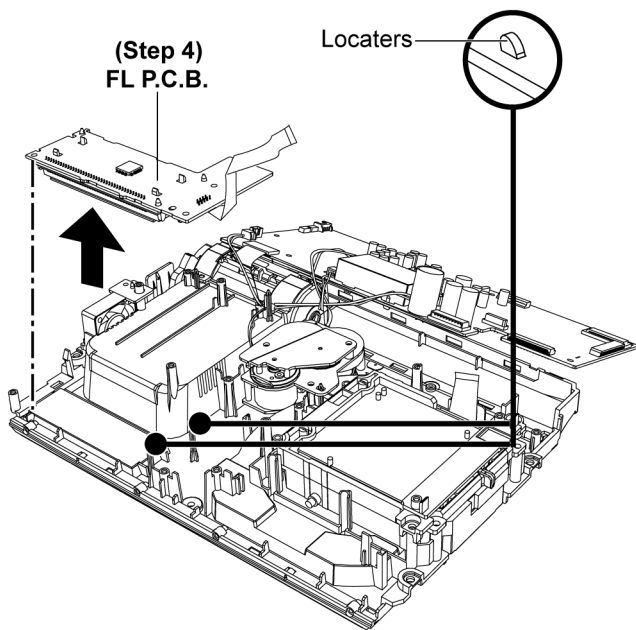


**Step 1 :** Remove 2 screws.



**Step 2 :** Remove D-Amp Insulator.

**Step 3 :** Release the catch on the FL P.C.B..

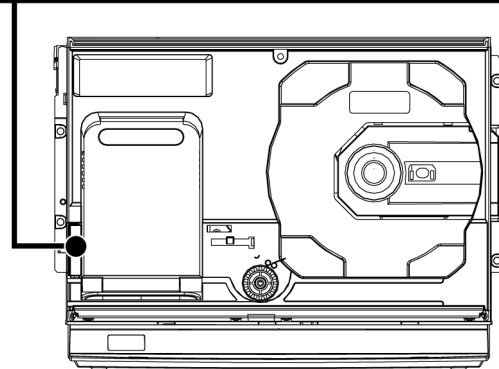
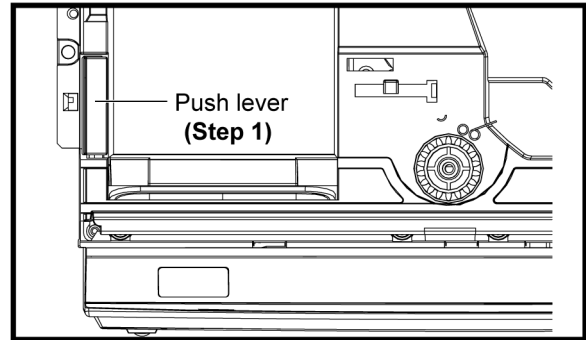


**Step 4 :** Remove the FL P.C.B..

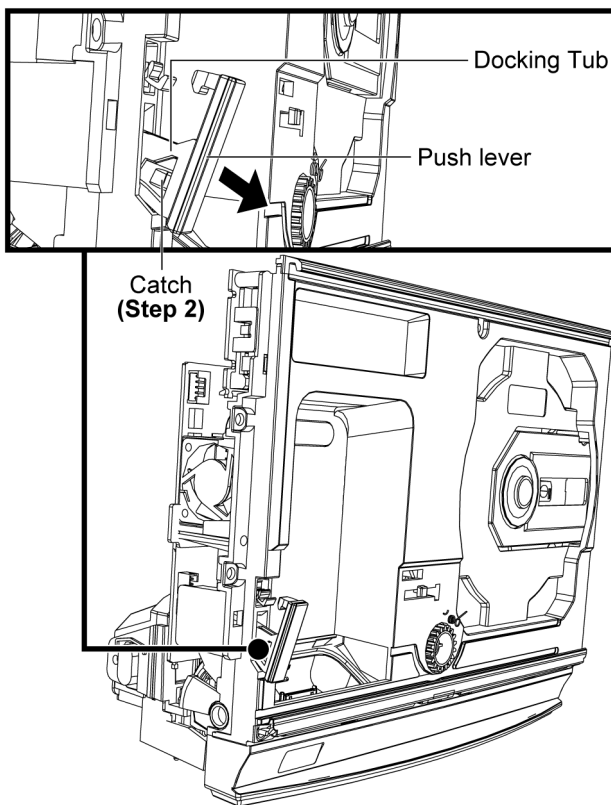
**Caution :** During assembly ensure the FL P.C.B. is seated properly on the locator.

## 9.28. Disassembly of iPod P.C.B.

- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.
- Follow the (Step 1) - (Step 9) of item 9.10.
- Follow the (Step 1) - (Step 2) of item 9.11.
- Follow the (Step 1) - (Step 2) of item 9.12.
- Follow the (Step 1) - (Step 5) of item 9.13.
- Follow the (Step 1) - (Step 16) of item 9.19.

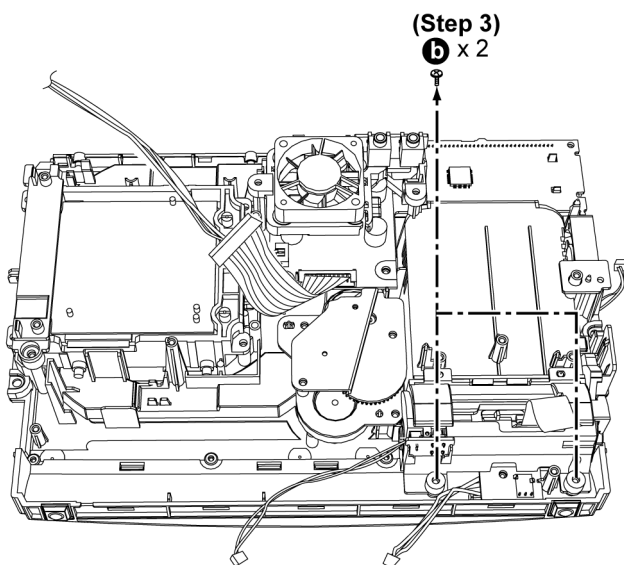


**Step 1 :** Press the push lever to release it.

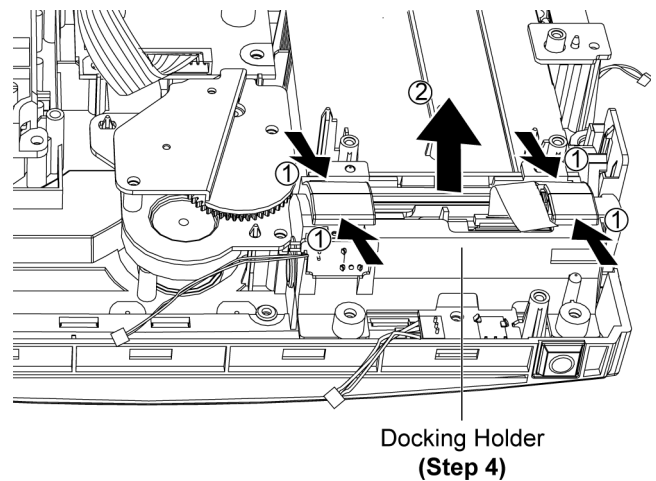


**Step 2 :** Release catch to remove push lever.

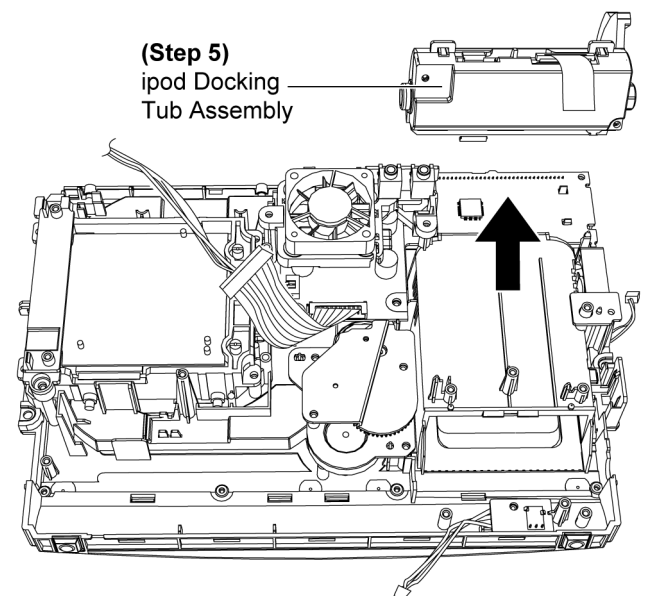
**Caution :** Do not exert strong force to the Push Lever during removal and assembly.



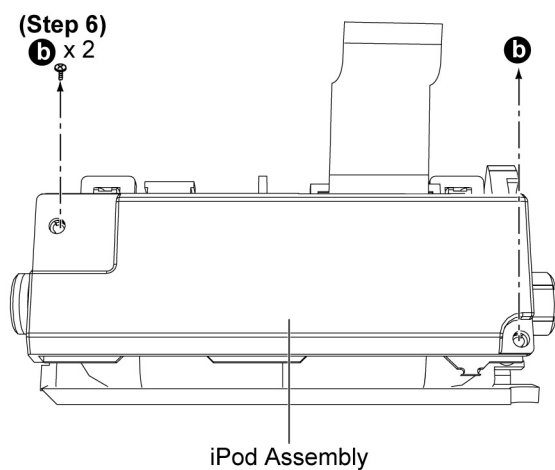
**Step 3 :** Remove 2 screws.



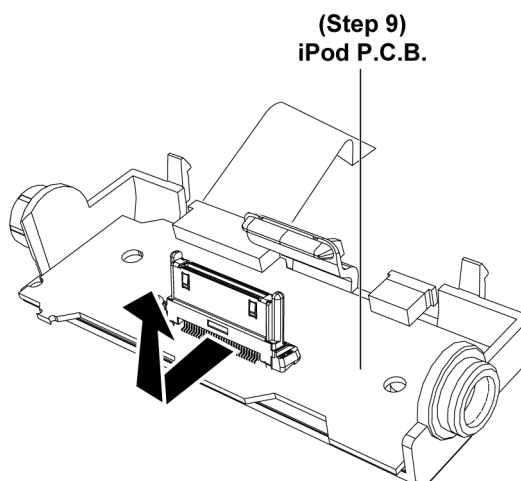
**Step 4 :** Press and hold the docking holder with gentle force as arrows ① shown to remove the docking holder as arrow ② shown.



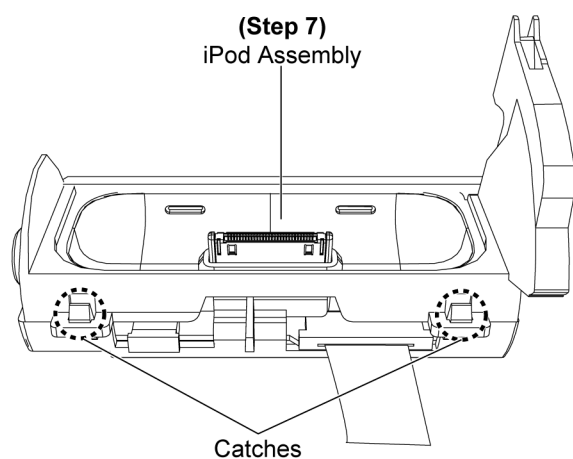
**Step 5 :** Remove the iPod Docking Tub Assembly.



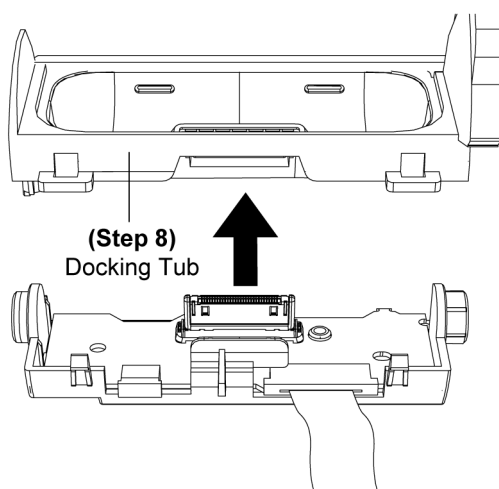
**Step 6 :** Remove 2 screws.



**Step 9 :** Remove the iPod P.C.B. as arrow shown.

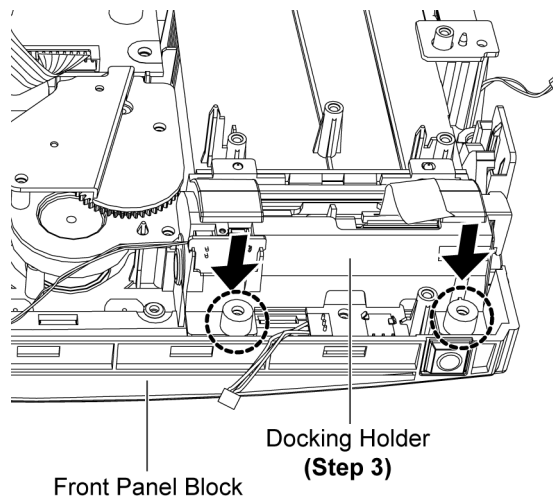
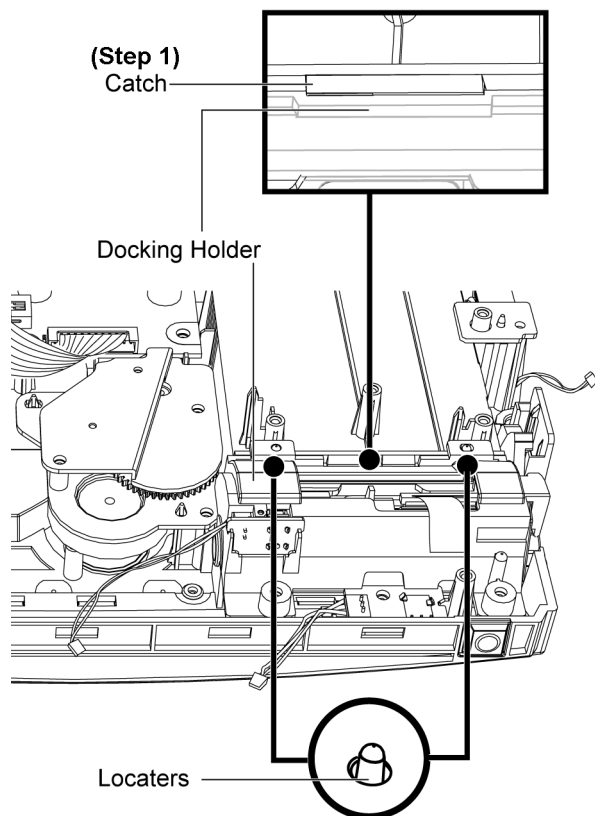


**Step 7 :** Release the 2 catches on the iPod Assembly.



**Step 8 :** Remove the docking tub.

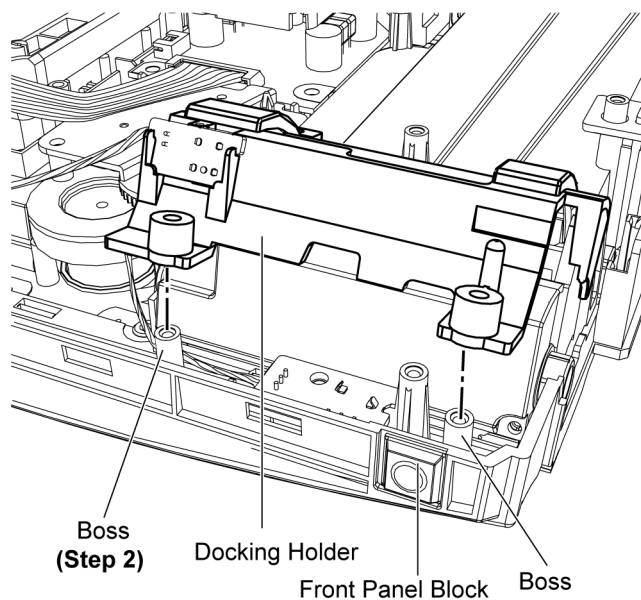
# • Assembly of Docking Holder



**Step 3 :** Fit the docking holder firmly onto the front panel block by pressing as arrow shown.

**Step 1 :** Place the docking holder underneath the catch.

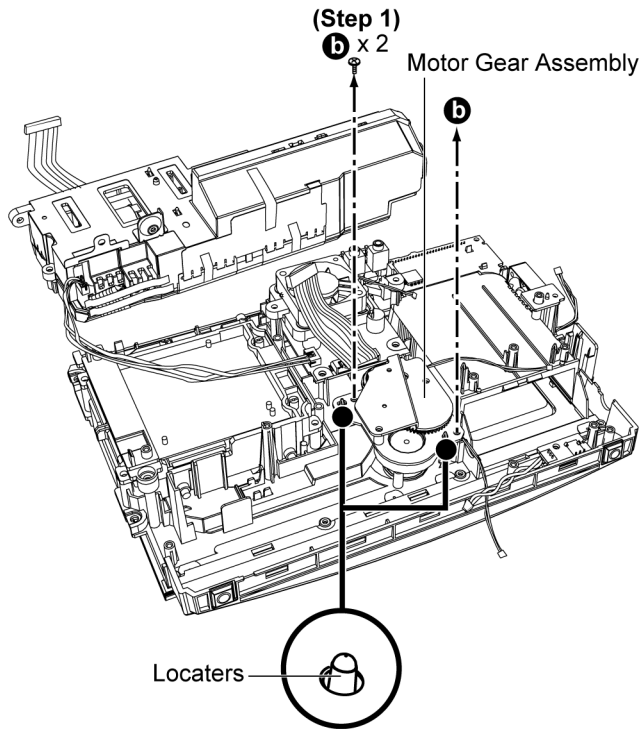
**Caution :** Using the 2 locators as guides, ensure that the docking holder is properly located.



**Step 2 :** Align the docking holder to the 2 bosses on the front panel block.

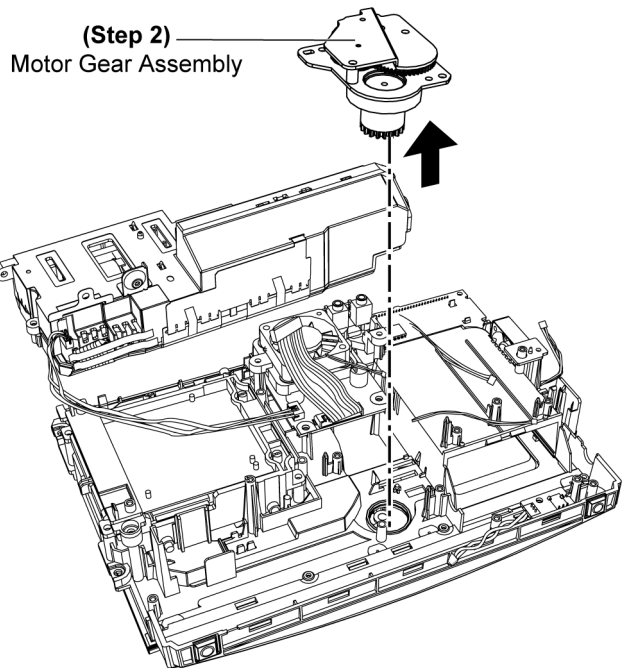
## 9.29. Disassembly of Motor P.C.B.

- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.
- Follow the (Step 1) - (Step 9) of item 9.10.
- Follow the (Step 1) - (Step 2) of item 9.11.
- Follow the (Step 1) - (Step 2) of item 9.12.
- Follow the (Step 1) of item 9.13.
- Follow the (Step 1) - (Step 16) of item 9.19.
- Follow the (Step 1) - (Step 5) of item 9.28.

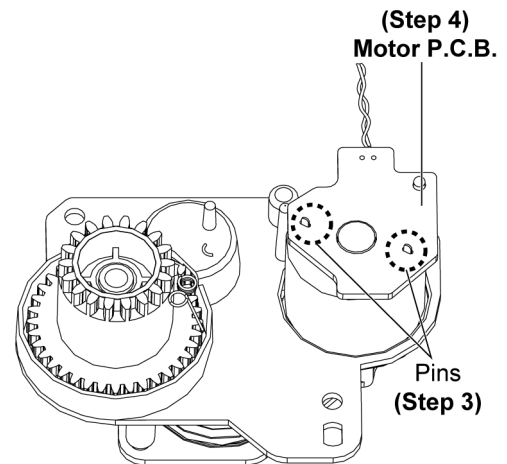


**Step 1 :** Remove 2 screws.

**Caution :** Ensure the Motor Gear Assembly is seated properly on the locator after assembled.



**Step 2 :** Remove the Motor Gear Assembly.

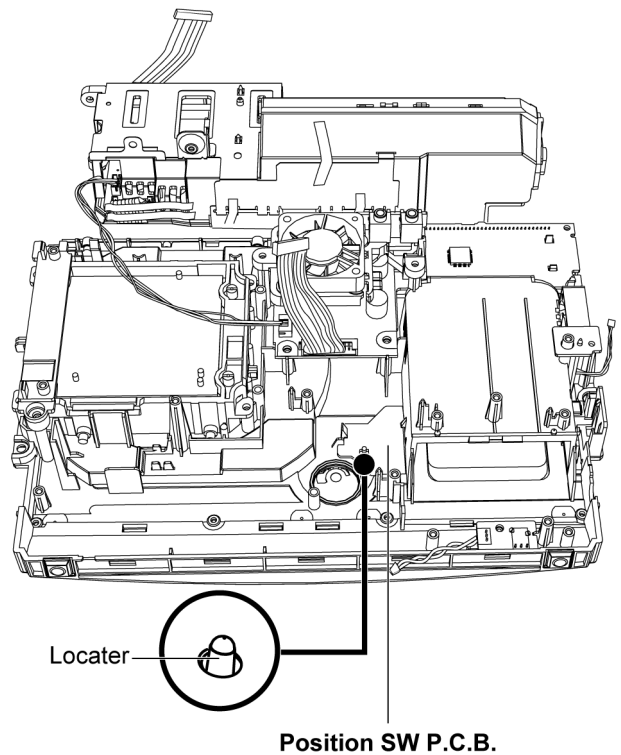
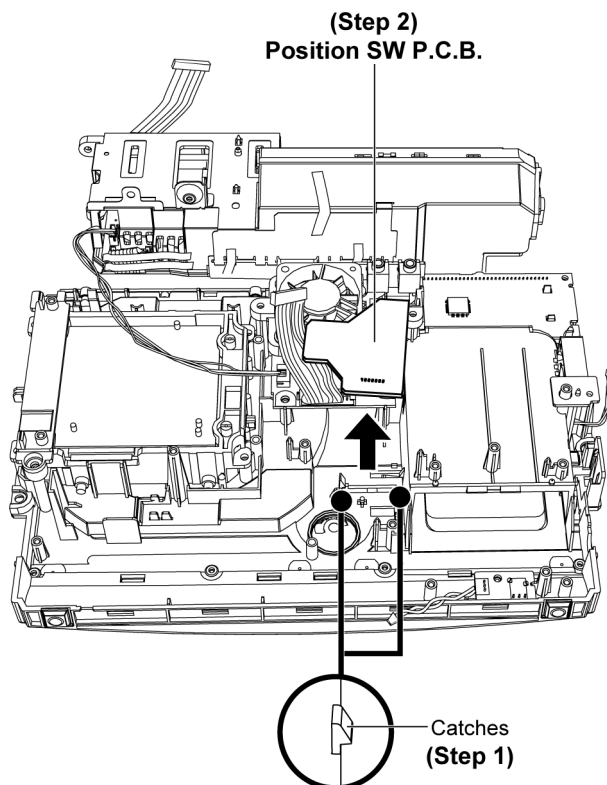


**Step 3 :** Desolder pins of the Motor P.C.B..

**Step 4 :** Remove the Motor P.C.B..

### 9.30. Disassembly of Position SW P.C.B.

- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.
- Follow the (Step 1) - (Step 9) of item 9.10.
- Follow the (Step 1) - (Step 2) of item 9.11.
- Follow the (Step 1) - (Step 2) of item 9.12.
- Follow the (Step 1) of item 9.13.
- Follow the (Step 1) - (Step 16) of item 9.19.
- Follow the (Step 1) - (Step 5) of item 9.28.
- Follow the (Step 1) - (Step 2) of item 9.29.



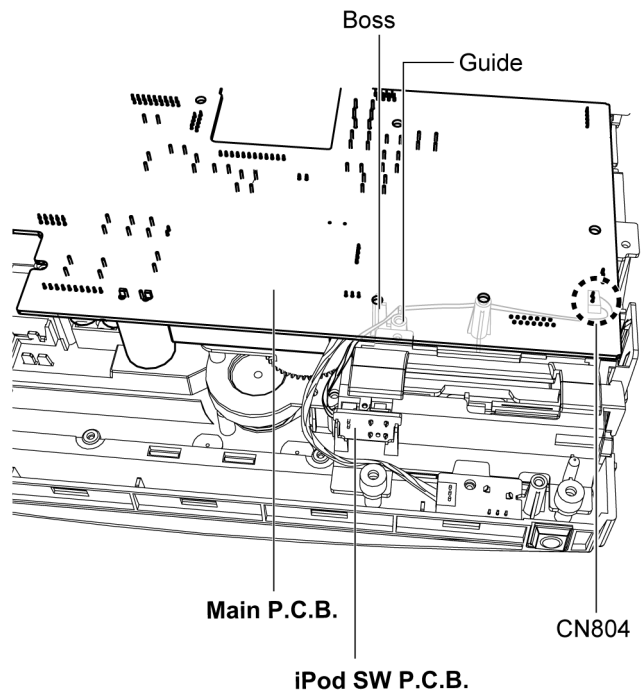
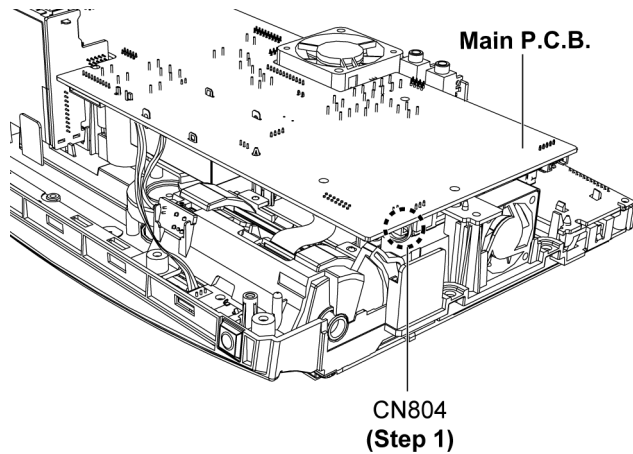
**Caution :** During assembly ensure the Position SW P.C.B is seated properly on the locator.

**Step 1 :** Release the 2 catches.

**Step 2 :** Remove the Position SW P.C.B..

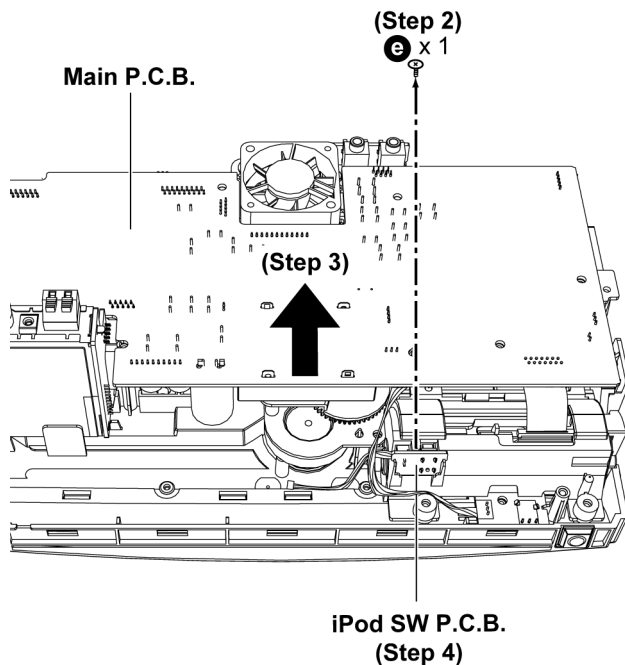
### 9.31. Disassembly of iPod SW P.C.B.

- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.
- Follow the (Step 1) - (Step 9) of item 9.10.
- Follow the (Step 1) - (Step 2) of item 9.11.
- Follow the (Step 1) - (Step 2) of item 9.12.
- Follow the (Step 1) - (Step 5) of item 9.13.
- Follow the (Step 1) of item 9.19.



**Caution :** Ensure that the cable is placed between the boss and the guide underneath the Main P.C.B..

**Step 1 :** Detach 2P cable at the connector (CN804) on the Main P.C.B..



**Step 2 :** Remove 1 screw.

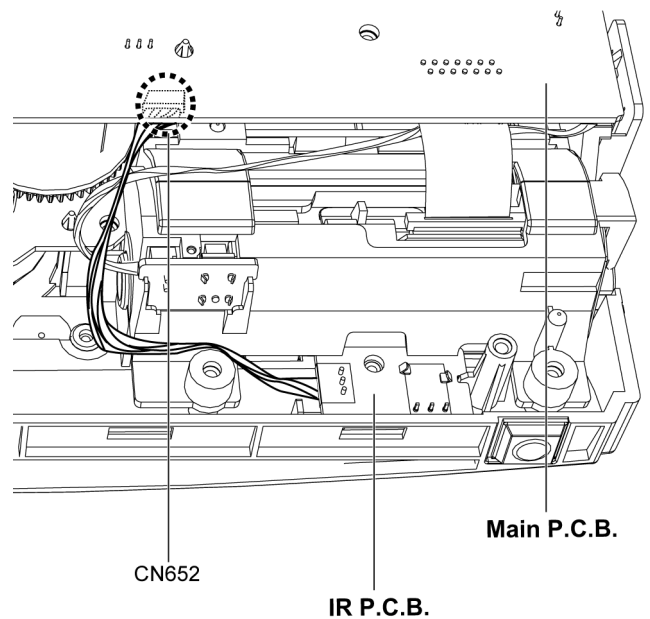
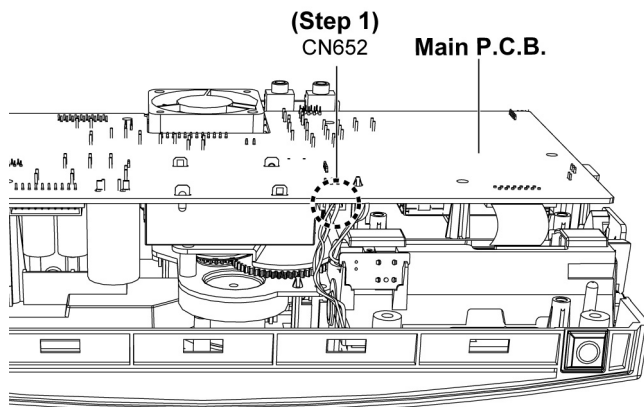
**Step 3 :** Lift up the Main P.C.B. slightly.

**Step 4 :** Remove the iPod SW P.C.B..



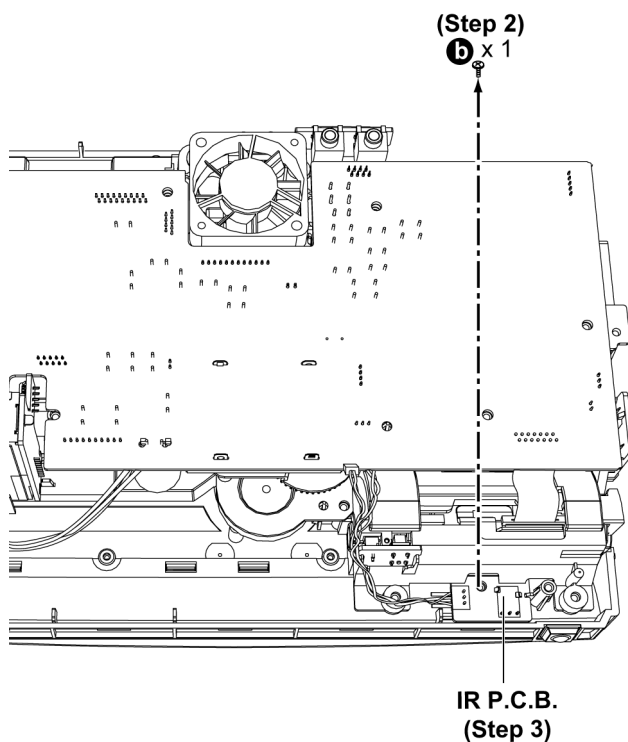
## 9.32. Disassembly of IR P.C.B.

- Follow the (Step 1) - (Step 4) of item 9.4.
- Follow the (Step 1) - (Step 4) of item 9.5.
- Follow the (Step 1) - (Step 3) of item 9.6.
- Follow the (Step 1) - (Step 3) of item 9.7.
- Follow the (Step 1) - (Step 9) of item 9.10.
- Follow the (Step 1) - (Step 2) of item 9.11.
- Follow the (Step 1) - (Step 2) of item 9.12.
- Follow the (Step 1) - (Step 5) of item 9.13.



**Caution :** During assembly of the IR P.C.B., connect 3P cable to the connector (CN652) on the Main P.C.B. and dress the cable as shown.

**Step 1 :** Detach 3P cable at the connector (CN652) on the Main P.C.B..



**Step 2 :** Remove 1 screw.

**Step 3 :** Remove the IR P.C.B..

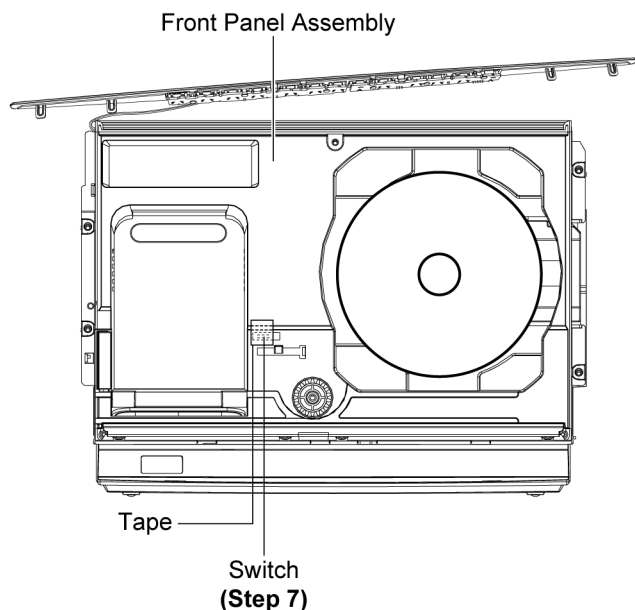
# 10 Service Position

Note: For description of the disassembly procedures, see the Section 9

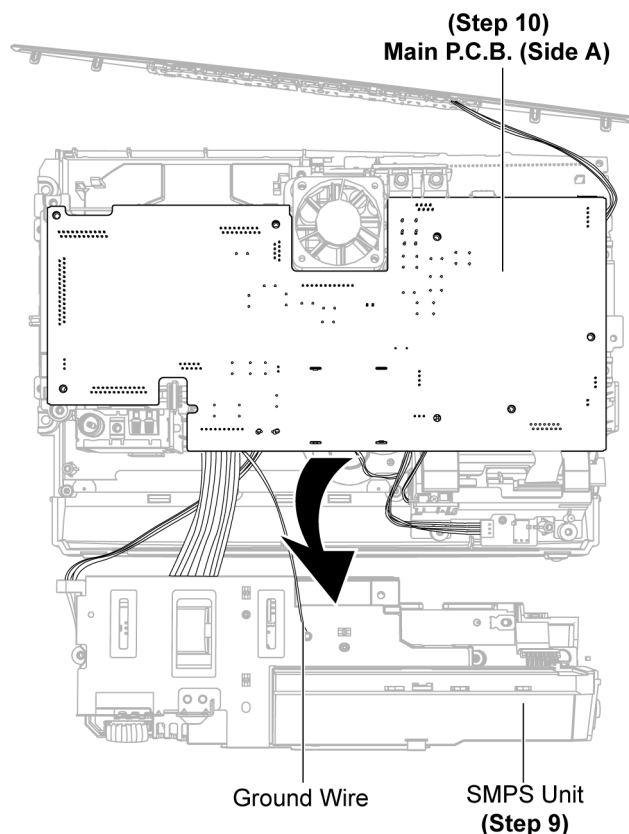
## 10.1. Checking and Repairing Main P.C.B.

### • Checking & Repairing Main P.C.B. (Side A)

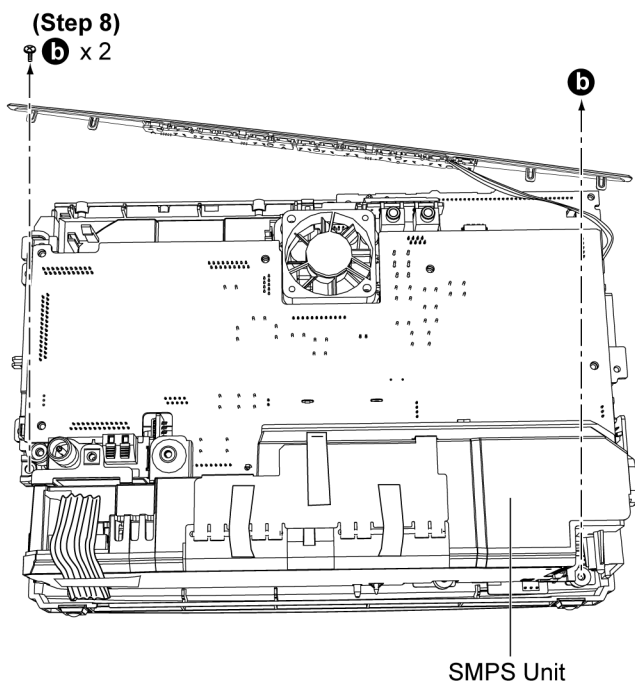
- Step 1 :** Remove CD Door Unit.
- Step 2 :** Remove Net Frame.
- Step 3 :** Remove Top Ornament.
- Step 4 :** Remove Bottom Ornament.
- Step 5 :** Remove Front Panel Block.
- Step 6 :** Insert a CD into the CD tray.



**Step 7 :** Use tape to keep the Switch depressed.

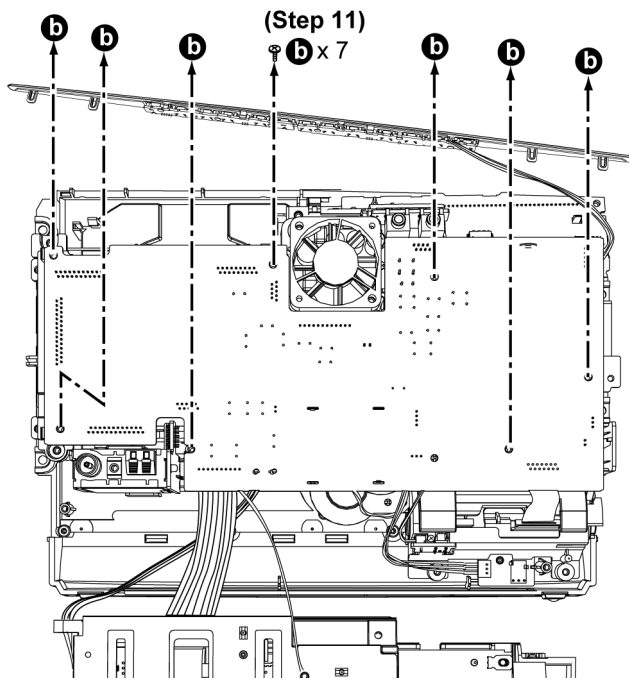


- Step 9 :** Lift up and flip over the SMPS Unit.
- Step 10 :** Check and repair Main P.C.B. (Side A) according to the diagram shown.
- Caution :** Take extra care not to damage the ground wire connected to the SMPS Unit during disassembling.

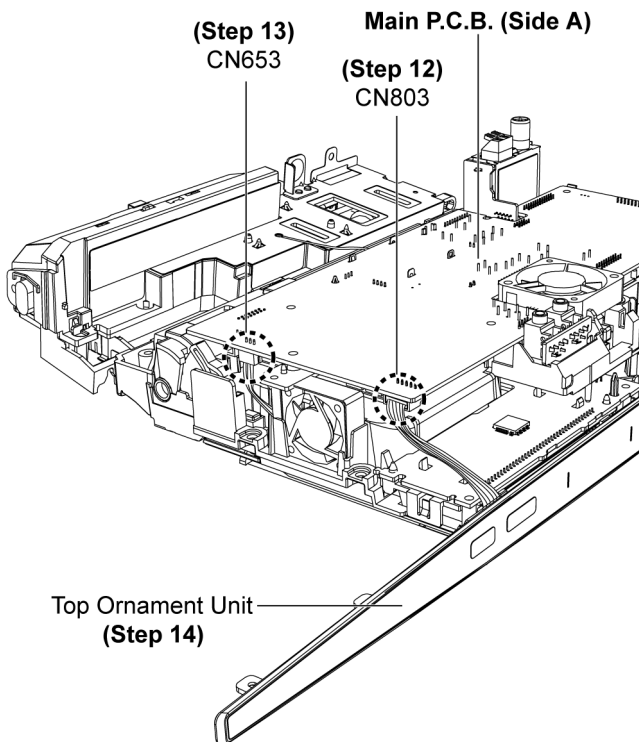


**Step 8 :** Remove 2 screw.

• Checking & Repairing Main P.C.B. (Side B)



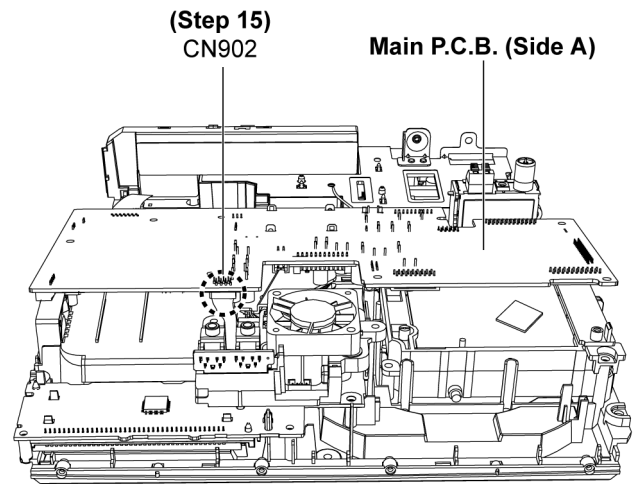
**Step 11 :** Remove 7 screw.



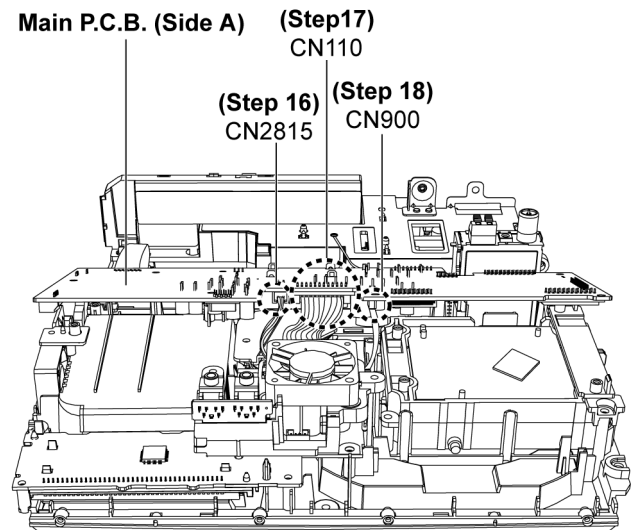
**Step 12 :** Detach 5P cable at the connector (CN803) on the Main P.C.B..

**Step 13 :** Detach 3P cable at the connector (CN653) on the Main P.C.B..

**Step 14 :** Remove Top Ornament Unit.



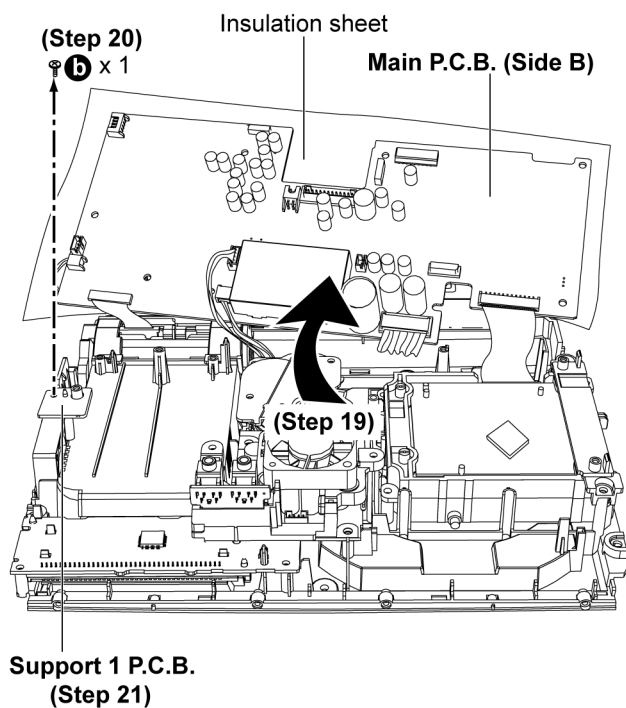
**Step 15 :** Lift up the Main P.C.B. slightly to detach 8P cable at the connector (CN902).



**Step 16 :** Detach 2P cable at the connector (CN2815) on the Main P.C.B..

**Step 17 :** Detach 12P cable at the connector (CN110) on the Main P.C.B..

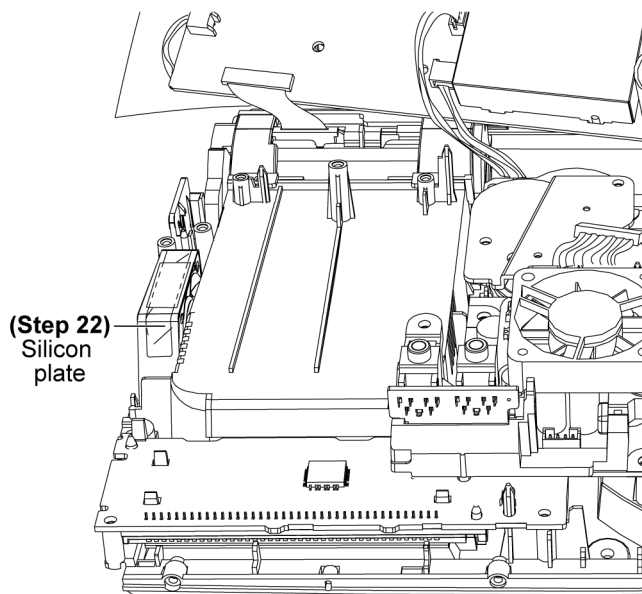
**Step 18 :** Detach 9P FFC cable at the connector (CN900) on the Main P.C.B..



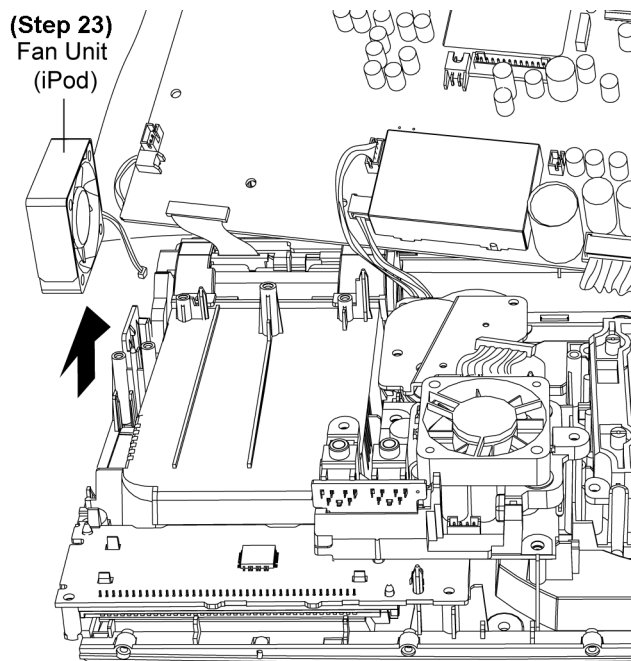
**Step 19 :** Flip over the Main P.C.B. as arrow shown and place it on an insulation sheet.

**Step 20 :** Remove 1 screw.

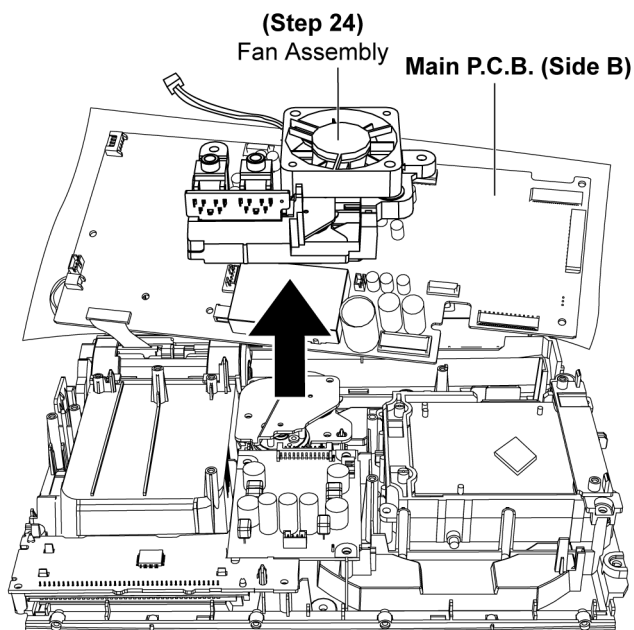
**Step 21 :** Remove the support 1 P.C.B..



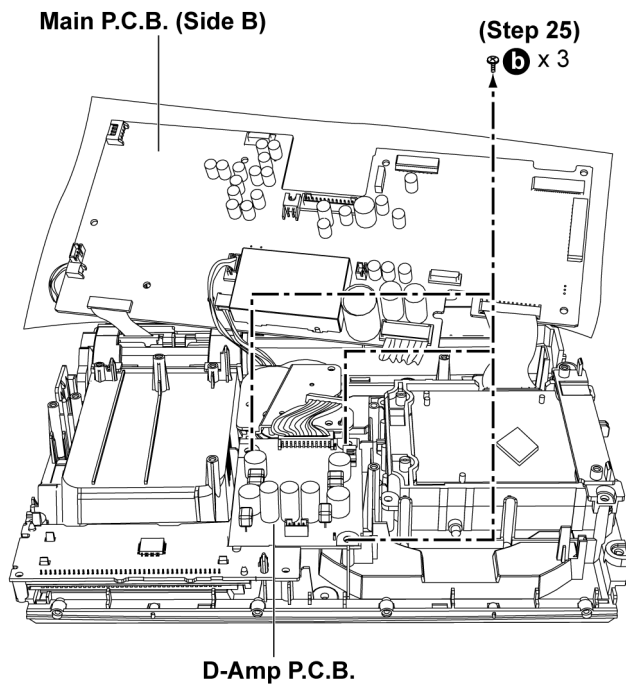
**Step 22 :** Remove the silicon plate.



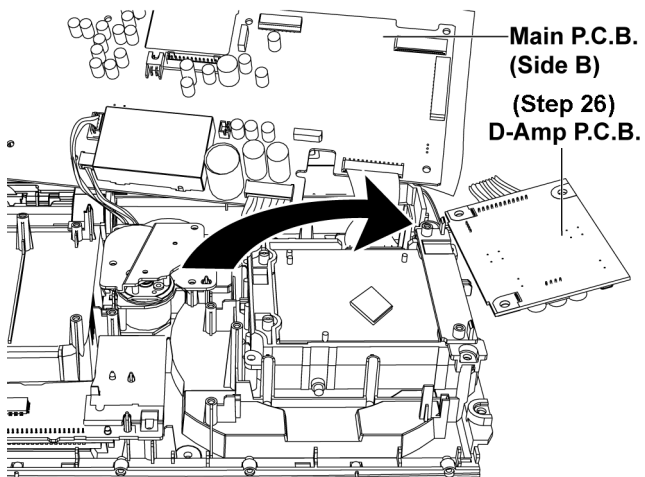
**Step 23 :** Remove the Fan Unit (iPod).



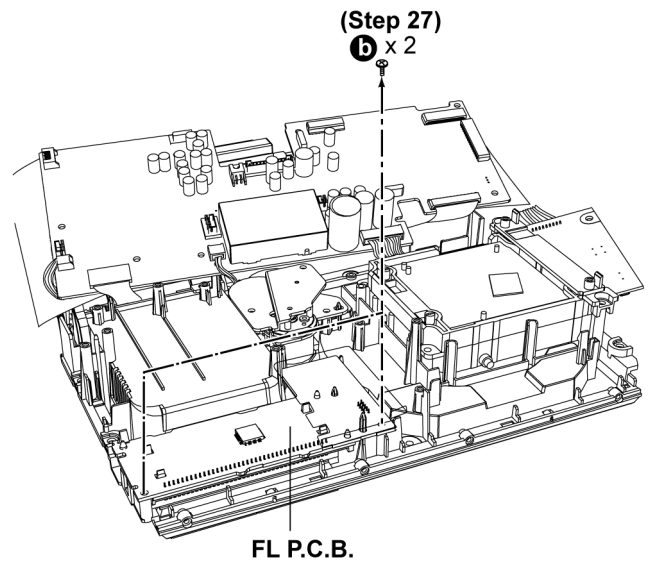
**Step 24 :** Remove the Fan Assembly.



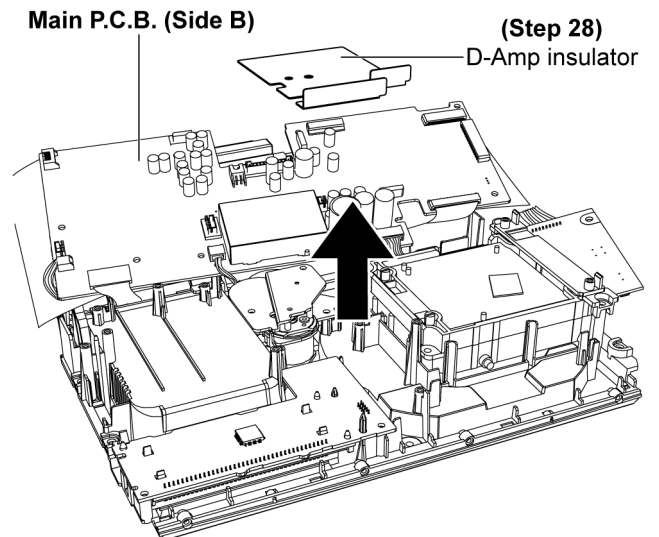
**Step 25 :** Remove 3 screws.



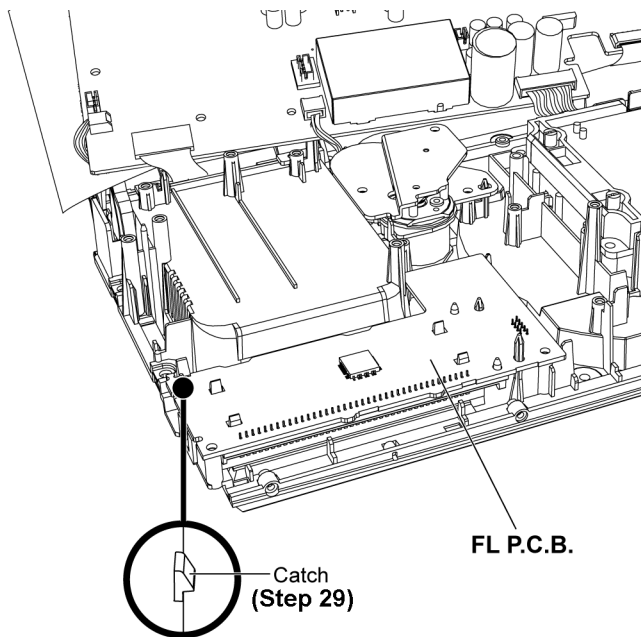
**Step 26 :** Flip over the D-Amp P.C.B. as arrow shown.



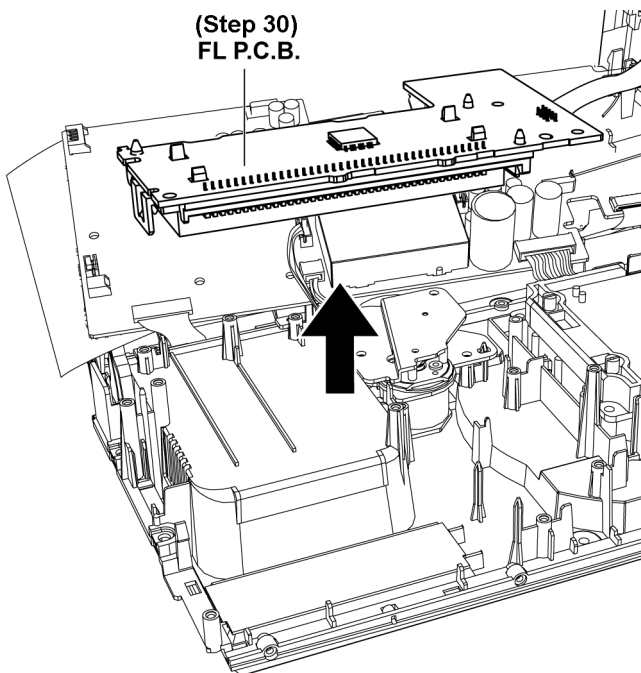
**Step 27 :** Remove 2 screws.



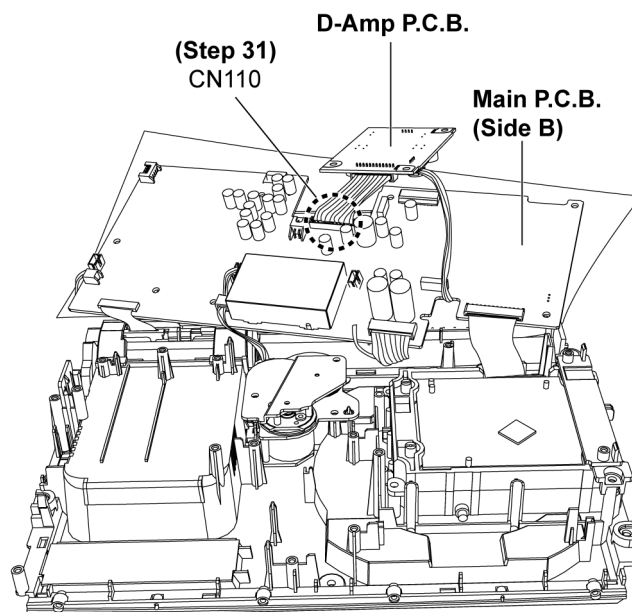
**Step 28 :** Remove the D-Amp insulator.



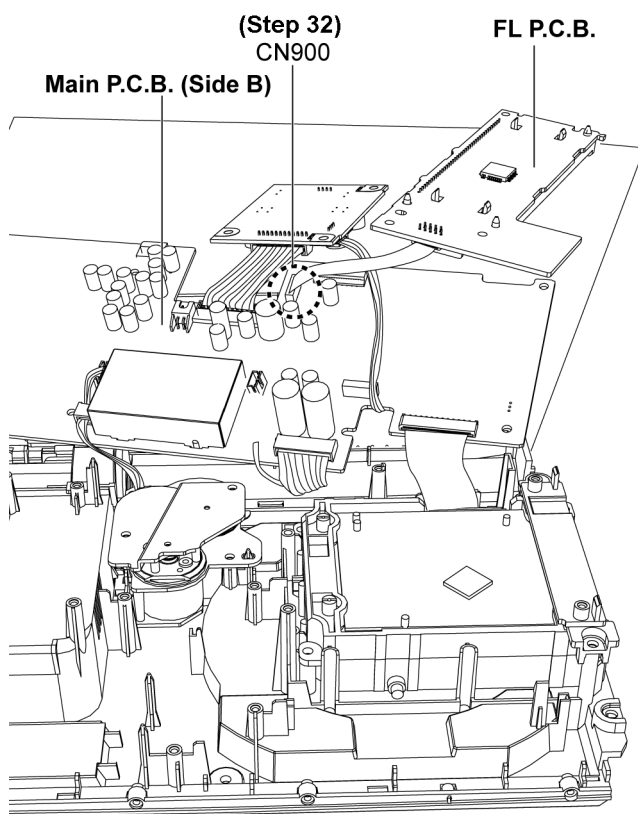
**Step 29 :** Release the catch on the FL P.C.B..



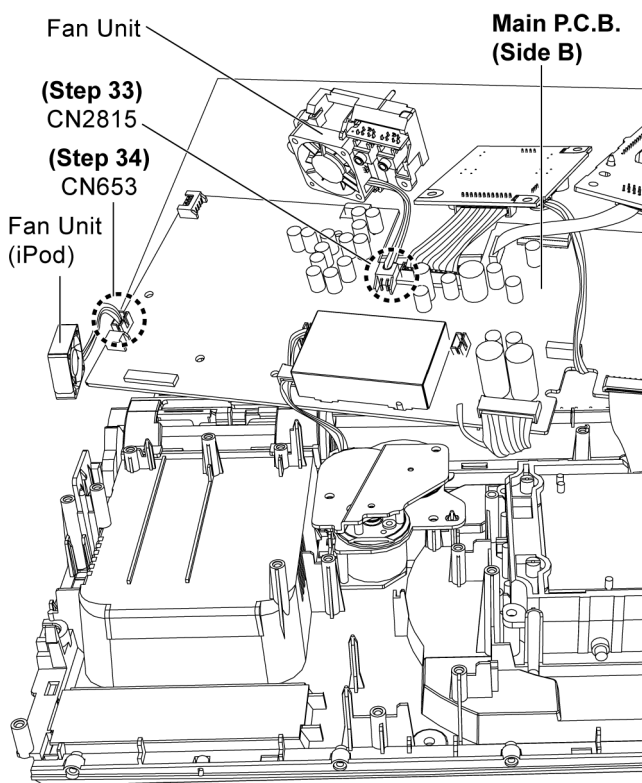
**Step 30 :** Remove the FL P.C.B..



**Step 31 :** Connect 12P cable at the connector (CN110) on the Main P.C.B..



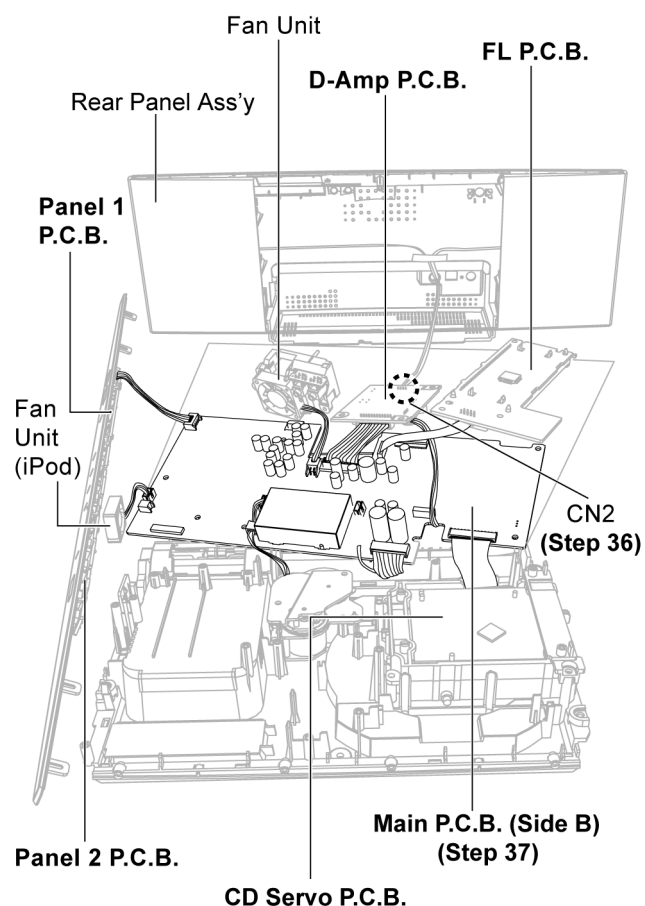
**Step 32 :** Connect 9P FFC cable at the connector (CN900) on the Main P.C.B..



**Step 33 :** Connect 2P cable at the connector (CN2815) on the Main P.C.B..

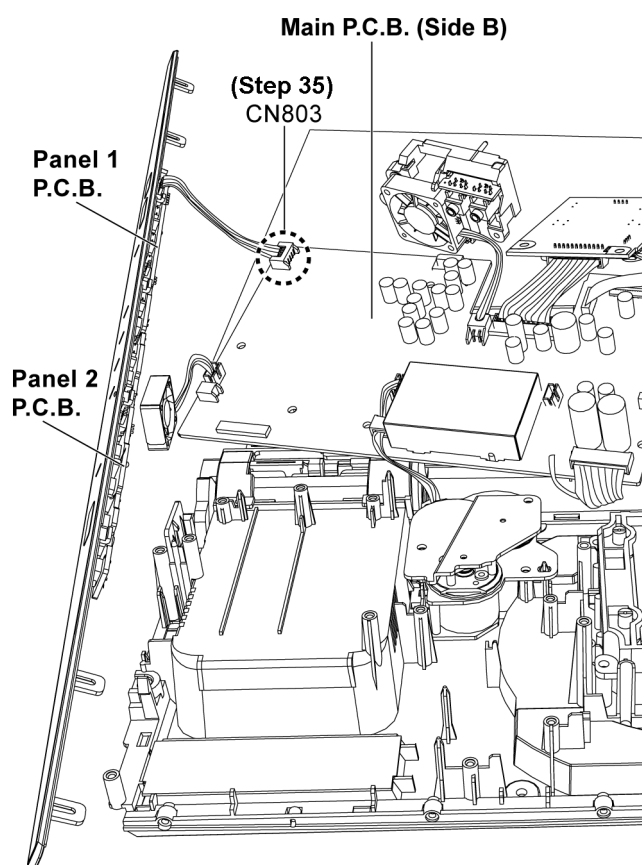
**Step 34 :** Connect 3P cable at the connector (CN653) on the Main P.C.B..

**Step 35 :** Connect 5P cable at the connector (CN803) on the Main P.C.B..



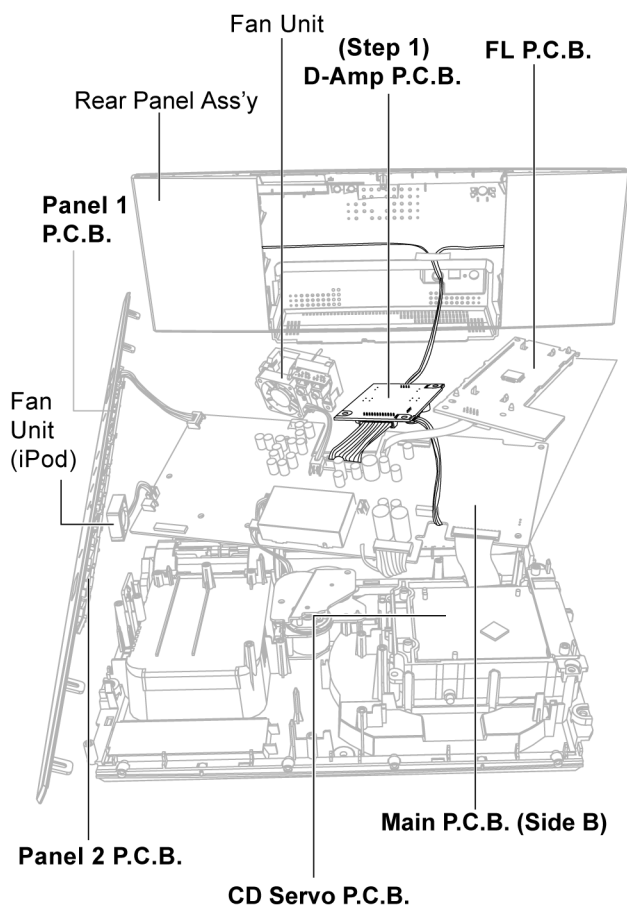
**Step 36 :** Connect 4P cable at the connector (CN2) on the D-Amp P.C.B..

**Step 37 :** Check and repair Main P.C.B. (Side B) according to the diagram shown.



## 10.2. Checking and Repairing D-Amp P.C.B.

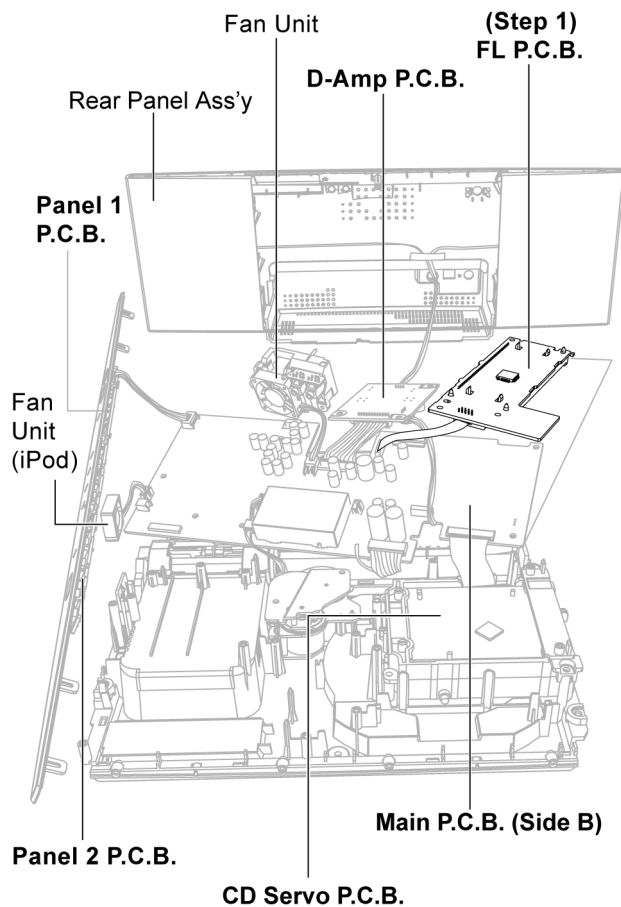
- Follow the (Step 1) - (Step 36) of item 10.1.



**Step 1** : Check and repair D-Amp P.C.B. according to the diagram shown.

## 10.3. Checking and Repairing FL P.C.B.

- Follow the (Step 1) - (Step 36) of item 10.1.

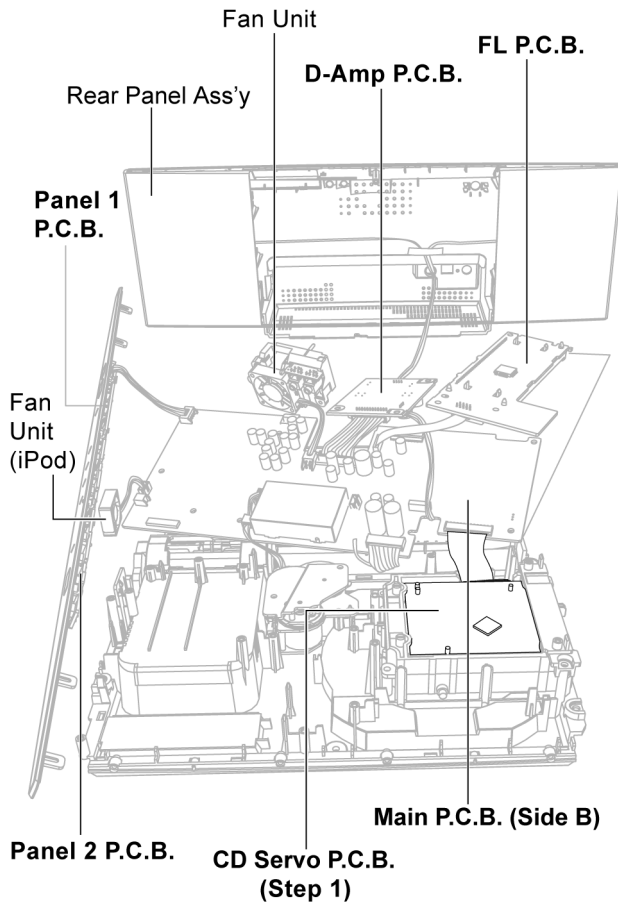


**Step 1** : Check and repair FL P.C.B. according to the diagram shown.



## 10.4. Checking and Repairing CD Servo P.C.B.

- Follow the (Step 1) - (Step 36) of item 10.1.



**Step 1 :** Check and repair CD Servo P.C.B. according to the diagram shown.

## 10.5. Checking and Repairing AC IN P.C.B.

**Step 1 :** Remove CD Door Unit.

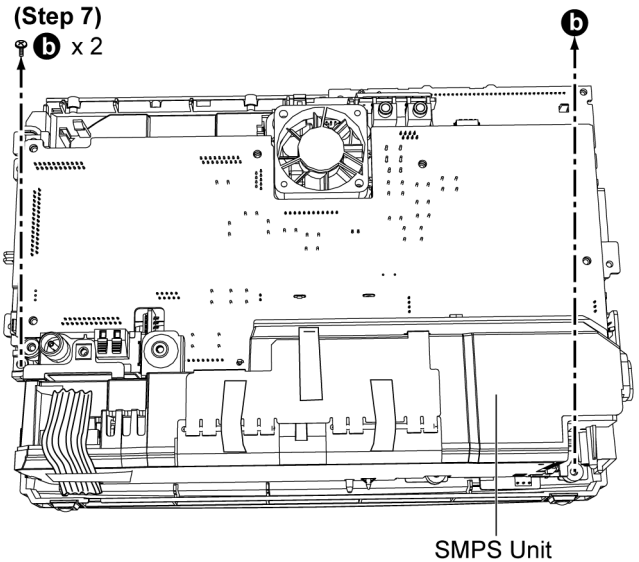
**Step 2 :** Remove Net Frame.

**Step 3 :** Remove Top Ornament.

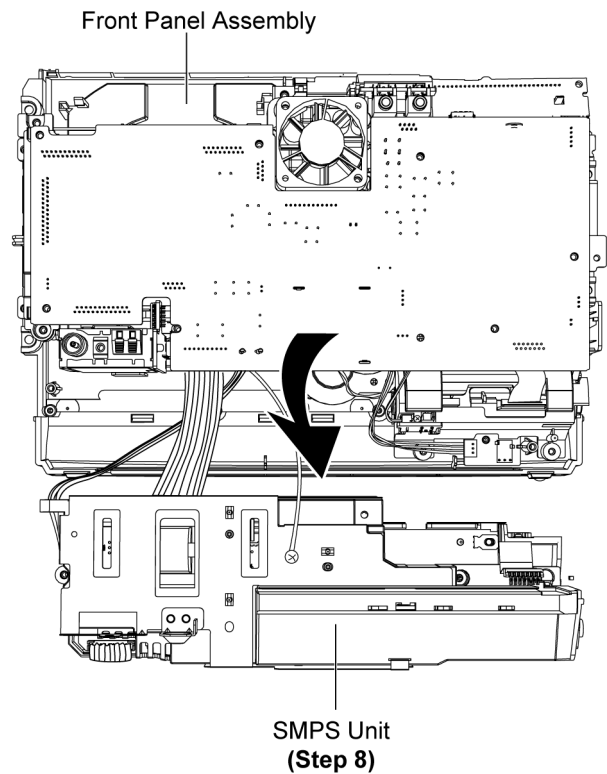
**Step 4 :** Remove Bottom Ornament.

**Step 5 :** Remove Front Panel Block.

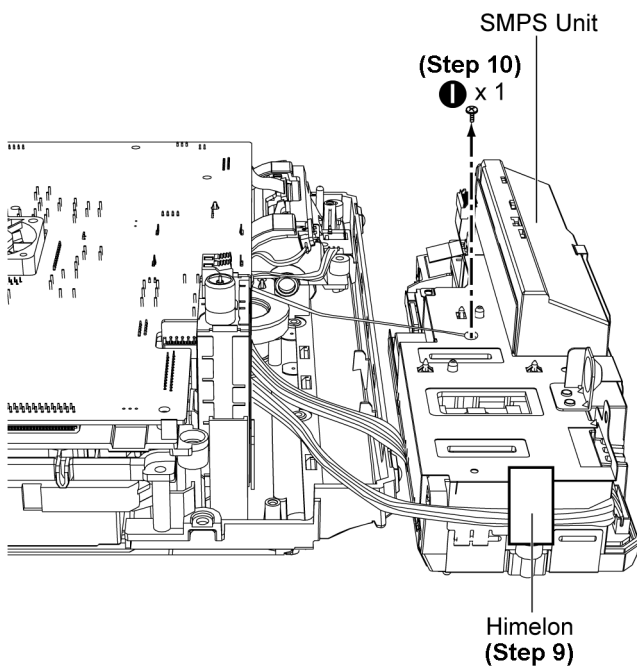
**Step 6 :** Remove Panel 1 & Panel 2 P.C.B..



**Step 7 :** Remove 2 screws.

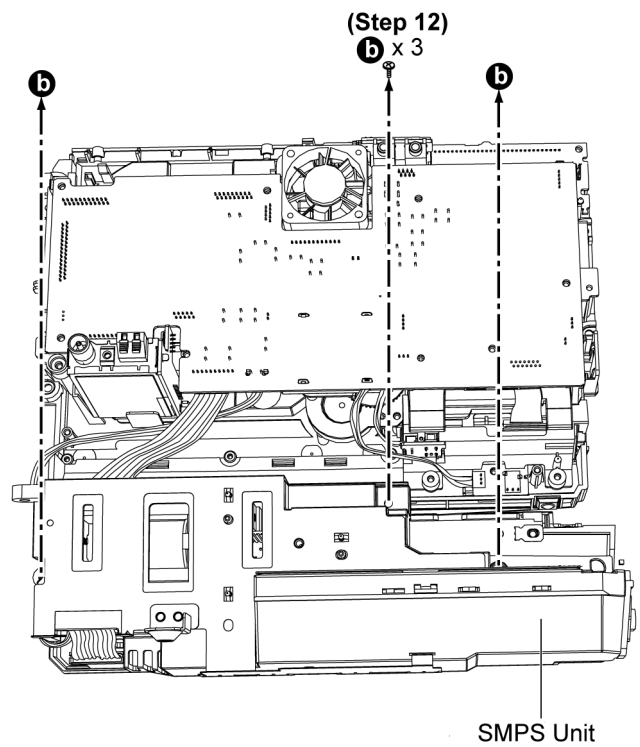


**Step 8 :** Lift up and flip over the SMPS Unit.

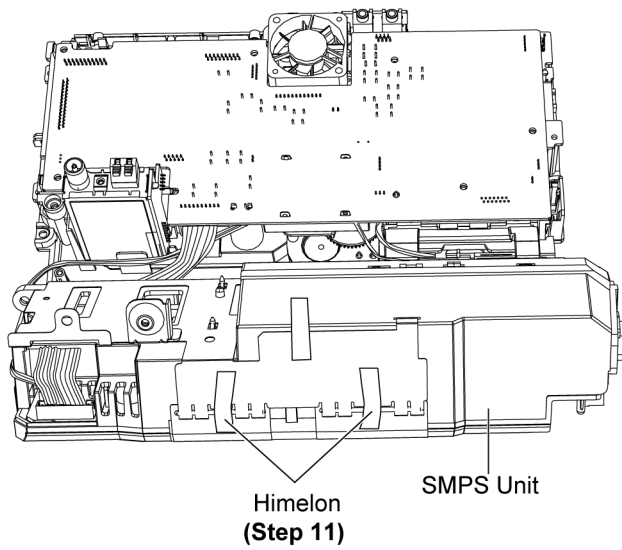


**Step 9 :** Lift up the himelon.

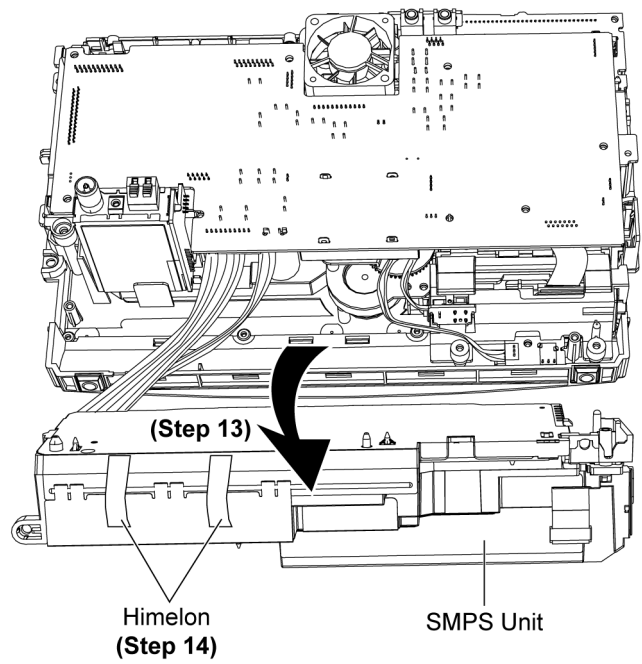
**Step 10 :** Remove 1 screw.



**Step 12 :** Remove 3 screws.

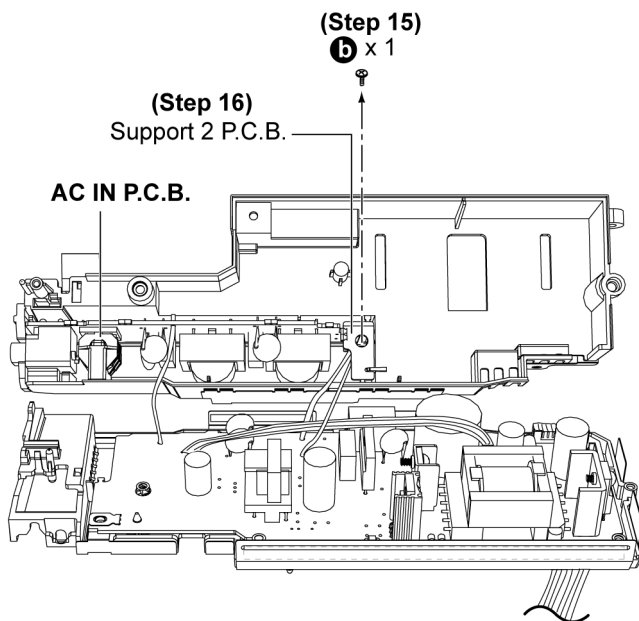


**Step 11 :** Lift up 2 pieces of himelon.



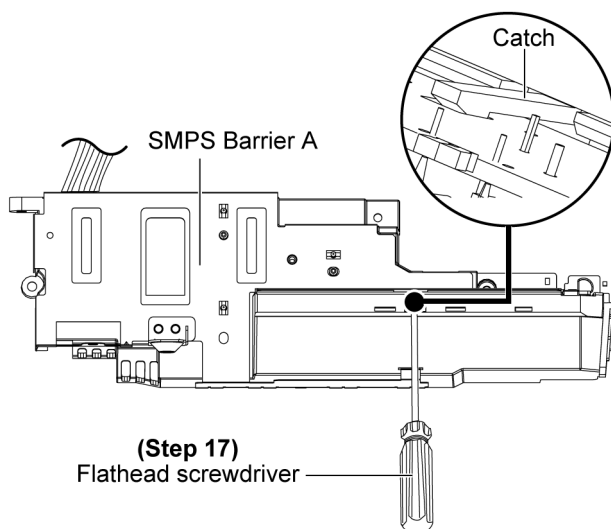
**Step 13 :** Flip over SMPS Unit as arrow shown.

**Step 14 :** Lift up 2 pieces of himelon.

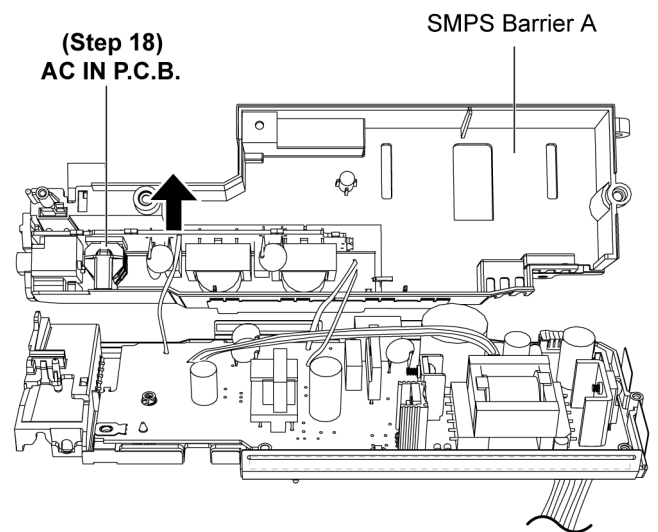


**Step 15 :** Remove 1 screw.

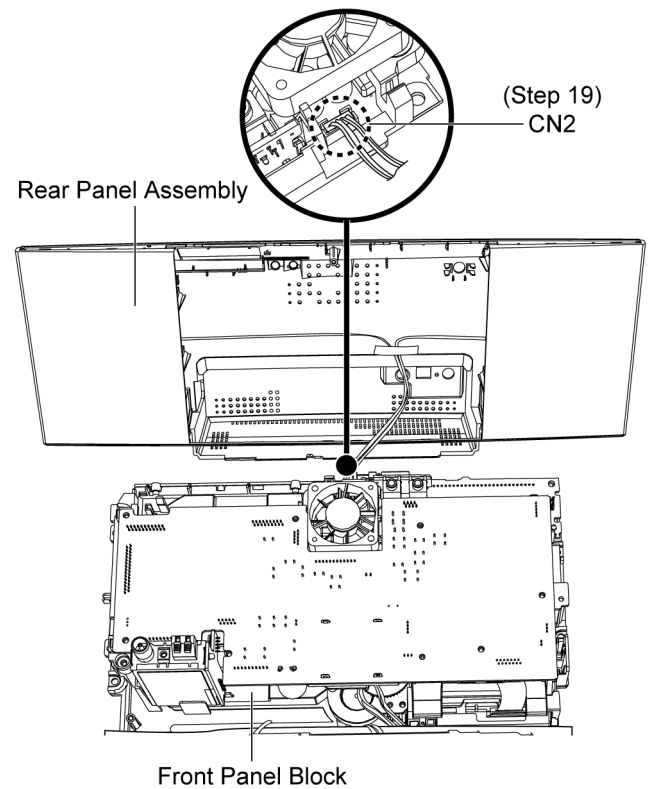
**Step 16 :** Remove Support 2 P.C.B..



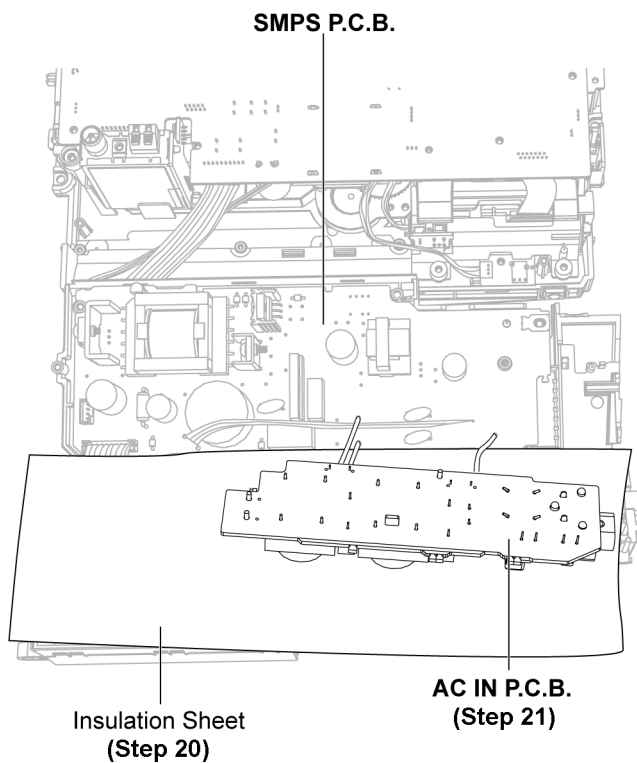
**Step 17 :** Using flathead screwdriver to release catch.



**Step 18 :** Remove AC IN P.C.B..



**Step 19 :** Connect 4P cable at the connector (CN2).

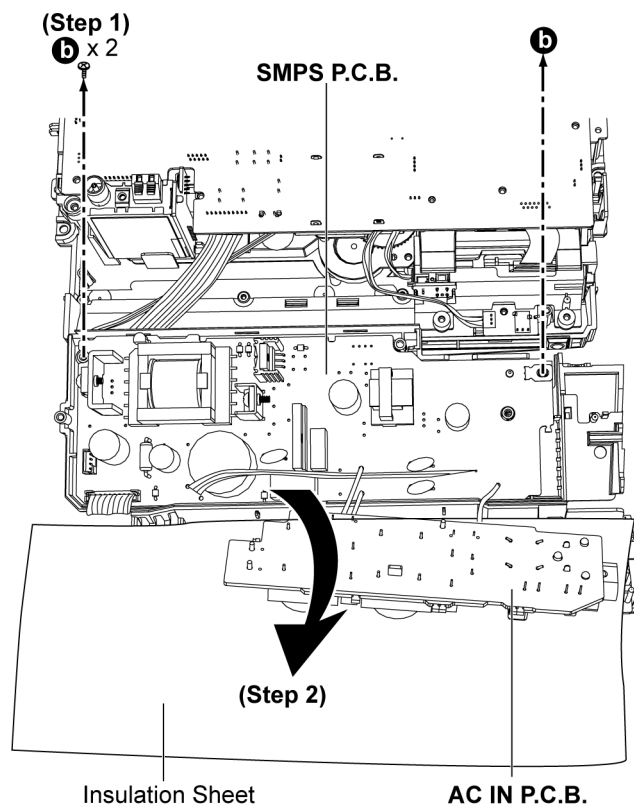


**Step 20 :** Lay the AC IN P.C.B. on an insulation sheet.

**Step 21 :** Check and repair AC IN P.C.B. according to the diagram shown.

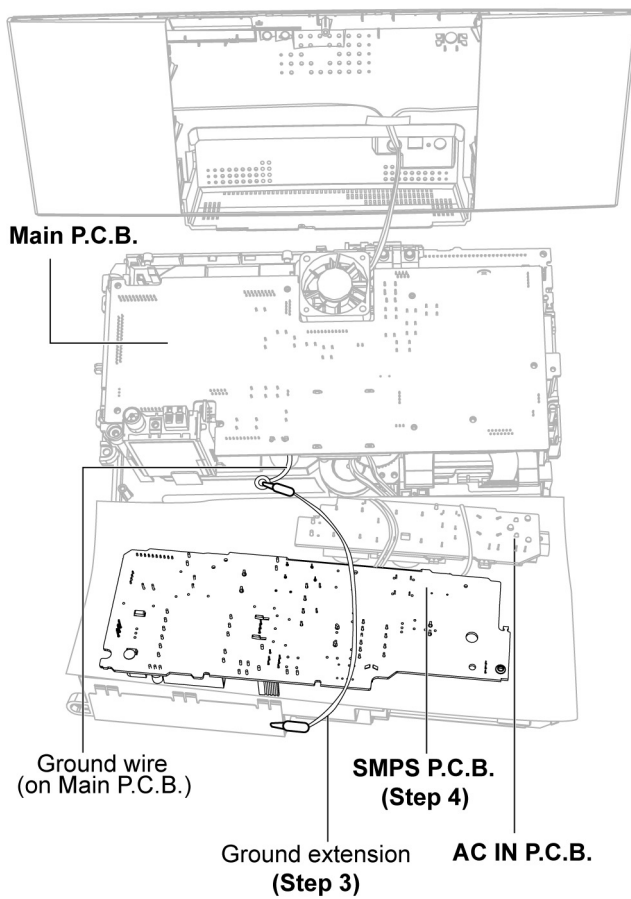
## 10.6. Checking and Repairing SMPS P.C.B.

- Follow the (Step 1) - (Step 20) of item 10.5.



**Step 1 :** Remove 2 screws.

**Step 2 :** Flip and lay the SMPS P.C.B. on the insulation sheet.



**Step 3 :** Connect the ground wire on the Main P.C.B. to the SMPS shield using a ground extension as shown.

**Step 4 :** Check and repair SMPS P.C.B. according to the diagram shown.

# 11 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.

## 11.1. CD SERVO P.C.B.

| Ref No. | IC7001 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| MODE    | 1      | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  |
| CD PLAY | 0.3    | 1.0 | 1.3 | 1.3 | 1.0 | 1.4 | 1.0 | 3.3 | 3.3 | 3.0 | 1.0 | 1.4 | 1.8 | 2.5 | 1.0 | 0.0 | 0.0 | 0.0 | 1.6 | 3.3 |
| STANDBY | 0.0    | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ref No. | IC7001 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| MODE    | 21     | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31  | 32  | 33  | 34  | 35  | 36  | 37  | 38  | 39  | 40  |
| CD PLAY | 1.6    | 0.0 | 1.8 | 1.8 | 2.0 | 0.0 | 3.3 | 1.5 | 3.3 | 3.3 | 0.0 | 1.7 | 1.8 | 1.8 | 2.0 | 2.0 | 1.8 | 1.7 | 1.7 | 1.7 |
| STANDBY | 0.0    | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ref No. | IC7001 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| MODE    | 41     | 42  | 43  | 44  | 45  | 46  | 47  | 48  | 49  | 50  | 51  | 52  | 53  | 54  | 55  | 56  | 57  | 58  | 59  | 60  |
| CD PLAY | 0.2    | 2.5 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 0.0 | 1.2 | 1.6 | 0.0 | 0.0 | 1.4 | 1.5 | 1.5 | 0.0 | 3.0 | 1.5 | 0.0 |
| STANDBY | 0.0    | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ref No. | IC7001 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| MODE    | 61     | 62  | 63  | 64  | 65  | 66  | 67  | 68  | 69  | 70  | 71  | 72  | 73  | 74  | 75  | 76  | 77  | 78  | 79  | 80  |
| CD PLAY | 2.7    | 0.6 | 0.0 | 0.6 | 0.0 | 0.0 | 3.0 | 3.0 | 3.2 | 1.3 | 0.0 | 3.3 | 0.0 | 1.6 | 0.0 | 1.6 | 3.2 | 0.0 | 3.2 | 1.6 |
| STANDBY | 0.0    | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ref No. | IC7001 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| MODE    | 81     | 82  | 83  | 84  | 85  | 86  | 87  | 88  | 89  | 90  | 91  | 92  | 93  | 94  | 95  | 96  | 97  | 98  | 99  | 100 |
| CD PLAY | 1.6    | 1.6 | 0.0 | 1.3 | 0.0 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.2 | 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 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ref No. | IC7002 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| MODE    | 1      | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  |
| CD PLAY | 1.6    | 0.0 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.5 | 1.7 | 3.2 | 3.2 | 3.2 | 2.8 | 3.8 | 3.2 | 3.2 | 7.5 | 0.0 |
| STANDBY | 0.0    | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ref No. | IC7002 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| MODE    | 21     | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  |     |     |     |     |     |     |     |     |     |     |
| CD PLAY | 0.0    | 0.0 | 0.0 | 0.0 | 7.1 | 1.6 | 1.6 | 1.6 | 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 |     |     |     |     |     |     |     |     |     |     |
| Ref No. | IC7003 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| MODE    | 1      | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  |
| CD PLAY | 3.3    | 0.0 | 1.3 | 1.3 | 0.3 | 0.0 | 0.0 | 1.0 | 2.5 | 1.8 | 1.4 | 1.0 | 3.3 | 0.0 | 1.0 | 1.4 | 1.0 | 1.3 | 1.3 | 0.0 |
| STANDBY | 3.3    | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ref No. | IC7003 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| MODE    | 21     | 22  | 23  | 24  | 25  | 26  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| CD PLAY | 1.0    | 0.0 | 3.3 | 0.0 | 1.3 | 0.0 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| STANDBY | 0.0    | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Ref No. | Q7601  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| MODE    | E      | C   | B   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| CD PLAY | 3.1    | 2.0 | 2.4 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| STANDBY | 0.0    | 0.1 | 0.0 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

SC-HC3P/PC CD SERVO P.C.B.

## 11.2. D-AMP P.C.B.

| Ref No.<br>MODE | IC1 |     |     |     |     |     |      |     |     |     |     |     |     |     |      |     |      |     |     |     |
|-----------------|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|------|-----|------|-----|-----|-----|
|                 | 1   | 2   | 3   | 4   | 5   | 6   | 7    | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15   | 16  | 17   | 18  | 19  | 20  |
| CD PLAY         | 3.5 | 3.5 | 6.0 | 1.1 | 0   | 0.0 | 17.0 | 17  | 8.6 | 0.0 | 0.0 | 0   | 0   | 0   | 17.0 | 0   | 24.6 | 0.0 | 0.0 | 9.0 |
| STANDBY         | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0 | 0.0 |

| Ref No.<br>MODE | IC1 |     |     |     |     |     |      |      |      |      |     |     |     |     |     |     |      |      |      |      |
|-----------------|-----|-----|-----|-----|-----|-----|------|------|------|------|-----|-----|-----|-----|-----|-----|------|------|------|------|
|                 | 21  | 22  | 23  | 24  | 25  | 26  | 27   | 28   | 29   | 30   | 31  | 32  | 33  | 34  | 35  | 36  | 37   | 38   | 39   | 40   |
| CD PLAY         | 9.0 | 0.0 | 3.5 | 0.3 | 5.0 | 5.0 | 11.6 | 24.6 | 17.0 | 17.0 | 0.0 | 8.6 | 0.0 | 0.0 | 8.6 | 8.6 | 17.0 | 17.0 | 24.6 | 17.0 |
| STANDBY         | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  |

| Ref No.<br>MODE | IC1 |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|-----|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                 | 41  | 42  | 43  | 44  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CD PLAY         | 4.4 | 3.5 | 0.0 | 3.5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| STANDBY         | 0.0 | 0.0 | 0.0 | 0.3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| Ref No.<br>MODE | QR1 |     |     |  | QR2 |     |     |  | QR3 |     |     |  | QR4 |     |     |  |  |  |  |  |
|-----------------|-----|-----|-----|--|-----|-----|-----|--|-----|-----|-----|--|-----|-----|-----|--|--|--|--|--|
|                 | E   | C   | B   |  | E   | C   | B   |  | E   | C   | B   |  | E   | C   | B   |  |  |  |  |  |
| CD PLAY         | 0.0 | 3.3 | 0.0 |  | 0.0 | 9.0 | 0.3 |  | 0.0 | 1.0 | 0.0 |  | 0.0 | 9.0 | 0.0 |  |  |  |  |  |
| STANDBY         | 0.0 | 0.0 | 0.0 |  | 0.0 | 0.0 | 0.0 |  | 0.0 | 3.3 | 0.0 |  | 0.0 | 0.0 | 3.3 |  |  |  |  |  |

SC-HC3P/PC D-AMP P.C.B.

## 11.3. FL P.C.B.

| Ref No.<br>MODE | IC6801 |     |     |     |     |     |     |     |     |     |     |     |     |       |       |       |       |       |       |       |
|-----------------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|-------|-------|-------|
|                 | 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 | 0.0 | 0.0 | 2.7 | 3.1 | 0.1 | 0.0 | 0.2 | 1.8 | 1.8 | 0.0 | 3.3 | -25.5 | -25.5 | -23.3 | -14.6 | -18.9 | -14.5 | -25.5 |
| STANDBY         | 0.0    | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.3 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

| Ref No.<br>MODE | IC6801 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|-----------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                 | 21     | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29    | 30    | 31    | 32    | 33    | 34    | 35    | 36    | 37    | 38    | 39    | 40    |
| CD PLAY         | -25.5  | -25.5 | -18.9 | -18.9 | -25.5 | -25.5 | -25.5 | -23.3 | -16.7 | -19.1 | -16.8 | -24.2 | -23.5 | -23.2 | -23.2 | -23.2 | -23.2 | -23.2 | -23.2 | -23.2 |
| STANDBY         | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

| Ref No.<br>MODE | IC6801 |       |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|--------|-------|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                 | 41     | 42    | 43  | 44  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CD PLAY         | -23.2  | -23.2 | 3.3 | 0.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| STANDBY         | 0.0    | 0.0   | 3.3 | 0.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

SC-HC3P/PC FL P.C.B.

## 11.4. MAIN P.C.B. (1/3)

| Ref No. | IC101 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| MODE    | 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 | 0.0 | 0.0 | 4.4 | 0.0 | 0.0 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 0.0 | 4.3 | 4.3 | 4.3 | 4.3 | 0.0 | 3.3 | 3.3 |
| STANDBY | 0.0   | 0.3 | 0.3 | 0.0 | 0.3 | 0.0 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.3 | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |

| Ref No. | IC101 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| MODE    | 21    | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31  | 32  | 33  | 34  | 35  | 36  | 37  | 38  | 39  | 40  |
| CD PLAY | 3.3   | 8.6 | 4.3 | 4.3 | 0.7 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 0.0 | 4.3 | 0.0 | 4.3 | 4.3 | 0.0 | 4.3 |
| STANDBY | 0.0   | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

| Ref No. | IC101 |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |  |  |  |  |
|---------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|--|--|--|--|
| MODE    | 41    | 42  | 43  | 44  | 45  | 46  | 47  | 48  | 49  | 50  | 51  | 52  |  |  |  |  |  |  |  |  |
| CD PLAY | 0.0   | 0.0 | 0.0 | 4.3 | 4.3 | 4.3 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 4.3 |  |  |  |  |  |  |  |  |
| STANDBY | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.3 | 0.0 | 0.3 |  |  |  |  |  |  |  |  |

| Ref No. | IC102 |     |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
|---------|-------|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|
| MODE    | 1     | 2   | 3   | 4   | 5   | 6   | 7   | 8   |  |  |  |  |  |  |  |  |  |  |  |  |
| CD PLAY | 4.6   | 4.6 | 4.6 | 0.0 | 4.6 | 4.6 | 4.6 | 9.0 |  |  |  |  |  |  |  |  |  |  |  |  |
| STANDBY | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 |  |  |  |  |  |  |  |  |  |  |  |  |

| Ref No. | IC103 |     |     |     |     |     |     |      |  |  |  |  |  |  |  |  |  |  |  |  |
|---------|-------|-----|-----|-----|-----|-----|-----|------|--|--|--|--|--|--|--|--|--|--|--|--|
| MODE    | 1     | 2   | 3   | 4   | 5   | 6   | 7   | 8    |  |  |  |  |  |  |  |  |  |  |  |  |
| CD PLAY | 8.1   | 7.6 | 8.1 | 0.0 | 8.1 | 7.7 | 8.2 | 14.8 |  |  |  |  |  |  |  |  |  |  |  |  |
| STANDBY | 0.3   | 0.3 | 0.0 | 0.0 | 0.0 | 0.3 | 0.3 | 0.0  |  |  |  |  |  |  |  |  |  |  |  |  |

| Ref No. | IC503 |     |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------|-------|-----|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| MODE    | 1     | 2   | 3   | 4   | 5   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CD PLAY | 5.3   | 0.0 | 5.3 | 0.0 | 3.3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| STANDBY | 0.2   | 0.0 | 0.2 | 0.0 | 0.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| Ref No. | IC504 |     |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------|-------|-----|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| MODE    | 1     | 2   | 3   | 4   | 5   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CD PLAY | 15.2  | 9.0 | 0.0 | 1.2 | 2.6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| STANDBY | 15.2  | 7.5 | 0.0 | 0.0 | 0.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| Ref No. | IC505 |     |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------|-------|-----|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| MODE    | 1     | 2   | 3   | 4   | 5   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CD PLAY | 15.0  | 4.8 | 0.0 | 0.0 | 0.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| STANDBY | 15.2  | 4.8 | 0.0 | 0.0 | 0.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| Ref No. | IC551 |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------|-------|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| MODE    | 1     | 2   | 3   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CD PLAY | 0.2   | 0.0 | 0.6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| STANDBY | 0.0   | 0.0 | 0.3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| Ref No. | IC650 |     |     |     |     |     |     |     |     |  |  |  |  |  |  |  |  |  |  |  |
|---------|-------|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|--|
| MODE    | 1     | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   |  |  |  |  |  |  |  |  |  |  |  |
| CD PLAY | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 5.8 | 0.8 | 0.0 | 0.5 |  |  |  |  |  |  |  |  |  |  |  |
| STANDBY | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 4.5 | 1.7 | 0.0 | 1.8 |  |  |  |  |  |  |  |  |  |  |  |

SC-HC3P/PC MAIN P.C.B.



## 11.5. MAIN P.C.B. (2/3)

| Ref No. | IC801 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| MODE    | 1     | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  |
| CD PLAY | 3.2   | 1.2 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 1.6 | 1.6 | 0.0 | 1.8 | 1.8 | 3.3 | 1.8 | 3.3 | 1.8 |
| STANDBY | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 1.6 | 0.0 | 1.6 | 1.6 | 3   | 1.6 | 3.3 | 1.6 |

| Ref No. | IC801 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 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 | 0.0 | 2.7 | 0.0 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 1.2 | 2.8 | 1.8 | 0.0 | 0.0 | 3.3 |
| STANDBY | 0.0   | 1.0 | 0.0 | 0.0 | 3.3 | 0.0 | 1.6 | 0.0 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 0.0 | 0.0 | 0.0 |

| Ref No. | IC801 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| MODE    | 41    | 42  | 43  | 44  | 45  | 46  | 47  | 48  | 49  | 50  | 51  | 52  | 53  | 54  | 55  | 56  | 57  | 58  | 59  | 60  |
| CD PLAY | 3.3   | 0.0 | 3.0 | 3.2 | 3.3 | 2.3 | 0.0 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 0.0 | 3.3 | 0.0 | 0.0 |
| STANDBY | 0.0   | 0.0 | 0.0 | 0.0 | 0.0 | 3.3 | 0.0 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 |

| Ref No. | IC801 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| MODE    | 61    | 62  | 63  | 64  | 65  | 66  | 67  | 68  | 69  | 70  | 71  | 72  | 73  | 74  | 75  | 76  | 77  | 78  | 79  | 80  |
| CD PLAY | 0.0   | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 0.0 | 0.0 | 0.0 | 1.2 | 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 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.3 |

| Ref No. | IC801 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| MODE    | 81    | 82  | 83  | 84  | 85  | 86  | 87  | 88  | 89  | 90  | 91  | 92  | 93  | 94  | 95  | 96  | 97  | 98  | 99  | 100 |
| CD PLAY | 0.0   | 0.0 | 0.0 | 0.0 | 3.3 | 0.0 | 2.4 | 3.3 | 0.0 | 0.0 | 3.3 | 0.0 | 0.0 | 3.3 | 3.3 | 3.3 | 0.8 | 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 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

| Ref No. | IC802 |     |     |     |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------|-------|-----|-----|-----|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| MODE    | 1     | 2   | 3   | 4   | 5    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CD PLAY | 12.2  | 0.0 | 1.5 | 3.3 | 12.2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| STANDBY | 4.8   | 0.0 | 2.0 | 3.3 | 4.8  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| Ref No. | IC803 |     |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------|-------|-----|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| MODE    | 1     | 2   | 3   | 4   | 5   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CD PLAY | 3.3   | 3.3 | 0.0 | 0.0 | 1.7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| STANDBY | 3.3   | 3.3 | 0.0 | 0.0 | 1.6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| Ref No. | Q101 |      |      |  | Q102 |      |     |  | Q103 |     |     |  | Q104 |      |     |  | Q105 |     |     |  |
|---------|------|------|------|--|------|------|-----|--|------|-----|-----|--|------|------|-----|--|------|-----|-----|--|
| MODE    | E    | C    | B    |  | E    | C    | B   |  | E    | C   | B   |  | E    | C    | B   |  | E    | C   | B   |  |
| CD PLAY | 13.3 | 14.9 | 13.8 |  | 0.0  | 14.8 | 0.0 |  | 0.0  | 0.0 | 0.0 |  | 0.0  | 14.8 | 0.3 |  | 0.0  | 0.0 | 0.3 |  |
| STANDBY | 0.0  | 0.0  | 0.0  |  | 0.0  | 0.0  | 0.0 |  | 0.0  | 0.0 | 0.0 |  | -0.1 | 0.0  | 0.0 |  | 0.0  | 0.0 | 0.0 |  |

| Ref No. | Q251 |     |      |  | Q252 |     |      |  | Q253 |     |      |  | Q302 |     |      |  | Q382 |     |     |  |
|---------|------|-----|------|--|------|-----|------|--|------|-----|------|--|------|-----|------|--|------|-----|-----|--|
| MODE    | E    | C   | B    |  | E    | C   | B    |  | E    | C   | B    |  | E    | C   | B    |  | E    | C   | B   |  |
| CD PLAY | 0.0  | 0.0 | -2.6 |  | 0.0  | 0.0 | -2.6 |  | 0.0  | 0.0 | -2.6 |  | 0.0  | 2.6 | -0.3 |  | 0.0  | 1.0 | 2.0 |  |
| STANDBY | 0.0  | 0.0 | 0.0  |  | 0.0  | 0.0 | 0.0  |  | 0.0  | 0.0 | 0.0  |  | 0.0  | 0.0 | 0.0  |  | 0.0  | 0.0 | 0.0 |  |

| Ref No. | Q451 |     |      |  | Q452 |     |      |  | Q453 |     |      |  | Q509 |     |     |  | Q511 |     |     |  |
|---------|------|-----|------|--|------|-----|------|--|------|-----|------|--|------|-----|-----|--|------|-----|-----|--|
| MODE    | E    | C   | B    |  | E    | C   | B    |  | E    | C   | B    |  | E    | C   | B   |  | E    | C   | B   |  |
| CD PLAY | 0.0  | 0.0 | -2.6 |  | 0.0  | 0.0 | -2.5 |  | 0.0  | 0.0 | -2.5 |  | 5.9  | 7.7 | 6.2 |  | 7    | 7.7 | 7.5 |  |
| STANDBY | 0.0  | 0.0 | 0.0  |  | 0.0  | 0.0 | 0.0  |  | 0.0  | 0.0 | 0.0  |  | 6.0  | 0.0 | 0.0 |  | 0.0  | 4.4 | 0.0 |  |

SC-HC3P/PC MAIN P.C.B.

## 11.6. MAIN P.C.B. (3/3)

| Ref No. | Q512 |     |     |  | Q551 |     |     |  | Q552 |     |     |  | Q553 |     |     |  | Q581 |      |     |  |
|---------|------|-----|-----|--|------|-----|-----|--|------|-----|-----|--|------|-----|-----|--|------|------|-----|--|
| MODE    | E    | C   | B   |  | E    | C   | B   |  | E    | C   | B   |  | E    | C   | B   |  | E    | C    | B   |  |
| CD PLAY | 8.4  | 0.0 | 7.5 |  | 8.6  | 0.0 | 8.6 |  | 0.0  | 8.6 | 0.0 |  | 0.0  | 0.0 | 0.3 |  | 0.3  | 16.7 | 0.0 |  |
| STANDBY | 5.0  | 0.0 | 5.0 |  | 0.0  | 0.0 | 0.0 |  | 0.0  | 0.1 | 0.0 |  | 0.0  | 0.0 | 0.0 |  | 0.0  | 0.0  | 0.0 |  |

| Ref No. | Q582 |     |     |  | Q583 |     |     |  | QR101 |      |     |  | QR121 |     |     |  | QR384 |     |     |  |
|---------|------|-----|-----|--|------|-----|-----|--|-------|------|-----|--|-------|-----|-----|--|-------|-----|-----|--|
| MODE    | E    | C   | B   |  | E    | C   | B   |  | E     | C    | B   |  | E     | C   | B   |  | E     | C   | B   |  |
| CD PLAY | 7.8  | 0.0 | 7.8 |  | 9.0  | 0.0 | 7.8 |  | 0.0   | -2.5 | 0.0 |  | 0.0   | 0.1 | 2.7 |  | 0.0   | 2.4 | 0.0 |  |
| STANDBY | 0.0  | 0.0 | 0.0 |  | 0.0  | 0.0 | 0.0 |  | 1.6   | 1.4  | 0.0 |  | 0.0   | 0.0 | 0.0 |  | 0.0   | 6.0 | 0.0 |  |

| Ref No. | QR514 |     |     |  | QR515 |     |     |  | QR554 |     |     |  | QR804 |     |     |  | QR805 |     |     |  |
|---------|-------|-----|-----|--|-------|-----|-----|--|-------|-----|-----|--|-------|-----|-----|--|-------|-----|-----|--|
| MODE    | E     | C   | B   |  | E     | C   | B   |  | E     | C   | B   |  | E     | C   | B   |  | E     | C   | B   |  |
| CD PLAY | 0.0   | 0.0 | 8.6 |  | 0.0   | 8.6 | 0.0 |  | 0.0   | 3.3 | 0.0 |  | 3.3   | 0.0 | 3.3 |  | 0.0   | 7.8 | 0.0 |  |
| STANDBY | 0.0   | 0.0 | 0.0 |  | 0.0   | 0.0 | 0.0 |  | 0.0   | 0.5 | 0.0 |  | 3.3   | 0.0 | 0.0 |  | 0.0   | 0.0 | 0.0 |  |

| Ref No. | QR806 |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------|-------|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| MODE    | E     | C   | B   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CD PLAY | 0.0   | 0.0 | 3.3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| STANDBY | 0.0   | 0.0 | 0.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

SC-HC3P/PC MAIN P.C.B.

## 11.7. SMPS P.C.B.

| Ref No. | IC701 |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------|-------|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| MODE    | 1     | 2   | 3   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CD PLAY | 13.6  | 0.0 | 2.4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| STANDBY | 0.0   | 0.0 | 0.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| Ref No. | IC702 |   |     |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
|---------|-------|---|-----|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|
| MODE    | 1     | 2 | 3   | 4    | 5    | 6    | 7    |  |  |  |  |  |  |  |  |  |  |  |  |
| CD PLAY | -1.1  | - | 0.0 | -3.5 | -5.0 | -5.0 | -5.5 |  |  |  |  |  |  |  |  |  |  |  |  |
| STANDBY | 0.3   | - | 0.0 | 0.0  | -0.5 | -0.5 | -0.5 |  |  |  |  |  |  |  |  |  |  |  |  |

| Ref No. | IC705 |     |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------|-------|-----|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| MODE    | 1     | 2   | 3   | 4   | 5   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CD PLAY | 3.2   | 7.0 | 0.0 | 0.0 | 0.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| STANDBY | 3.3   | 0.0 | 0.0 | 0.0 | 0.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| Ref No. | IC751 |      |      |      |     |   |      |      |  |  |  |  |  |  |  |  |  |  |  |
|---------|-------|------|------|------|-----|---|------|------|--|--|--|--|--|--|--|--|--|--|--|
| MODE    | 1     | 2    | 3    | 4    | 5   | 6 | 7    | 8    |  |  |  |  |  |  |  |  |  |  |  |
| CD PLAY | -8.8  | -6.0 | -6.0 | -5.0 | 5.0 | - | -6.0 | -6.0 |  |  |  |  |  |  |  |  |  |  |  |
| STANDBY | -3.2  | -3.2 | -3.2 | -3.0 | 3.0 | - | -3.2 | -3.2 |  |  |  |  |  |  |  |  |  |  |  |

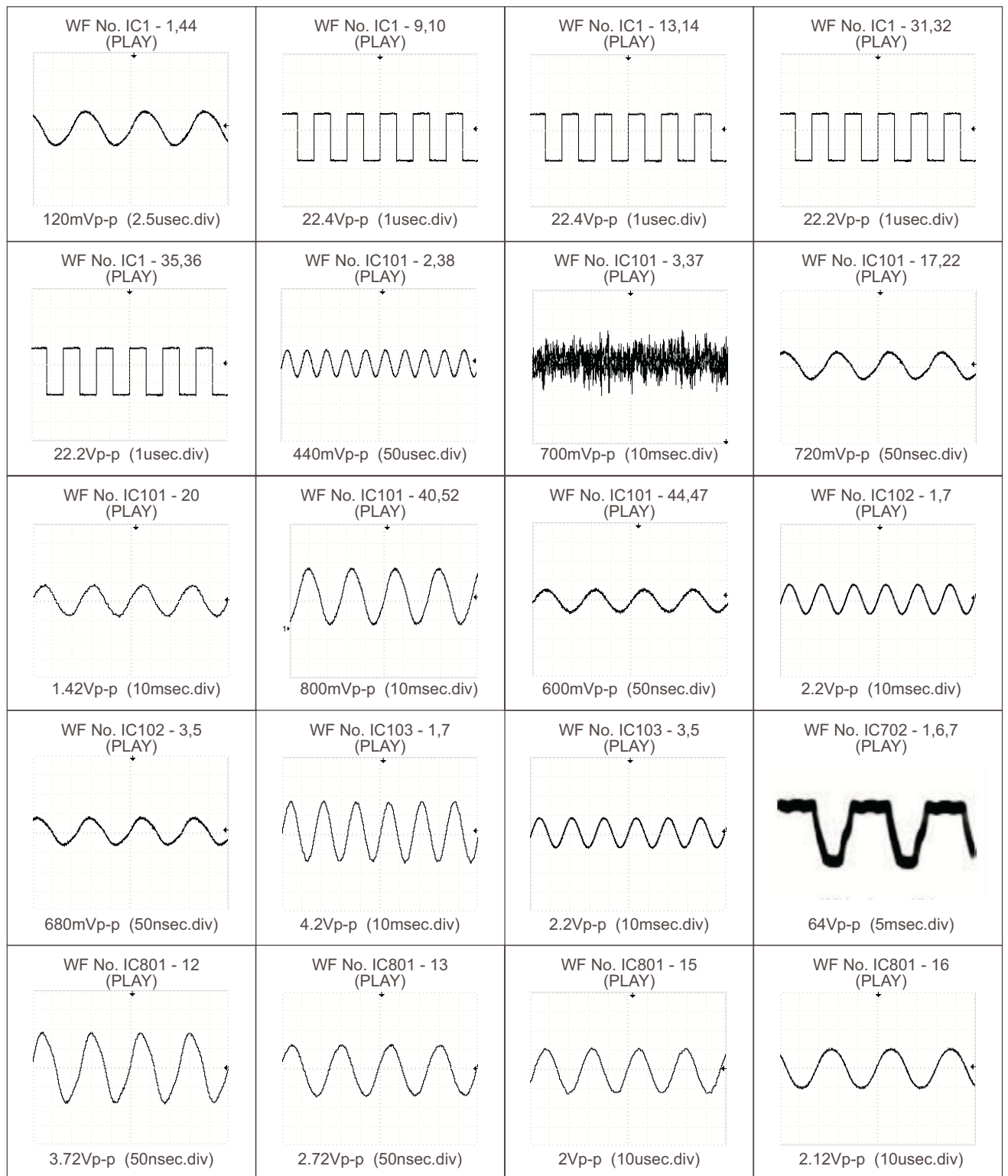
| Ref No. | IC752 |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------|-------|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| MODE    | 1     | 2   | 3   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CD PLAY | 3.8   | 2.5 | 0.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| STANDBY | 3.8   | 2.5 | 0.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

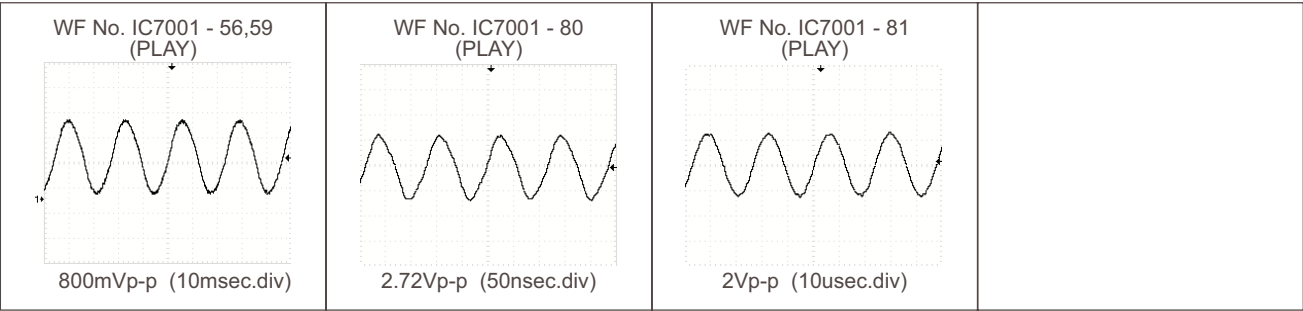
  

| Ref No. | Q701 |      |     |  | Q703 |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
|---------|------|------|-----|--|------|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|
| MODE    | E    | C    | B   |  | E    | C   | B   |  |  |  |  |  |  |  |  |  |  |  |  |
| CD PLAY | 0.0  | 17.0 | 0.0 |  | 0.0  | 0.0 | 0.7 |  |  |  |  |  |  |  |  |  |  |  |  |
| STANDBY | 0.0  | 0.0  | 0.0 |  | 0.0  | 5.0 | 0.0 |  |  |  |  |  |  |  |  |  |  |  |  |

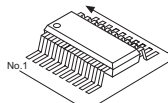
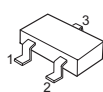
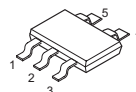
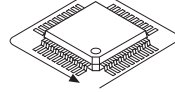
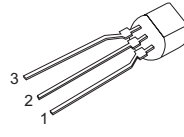
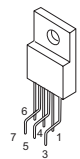
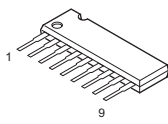
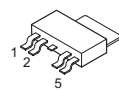
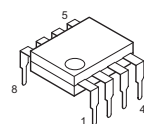
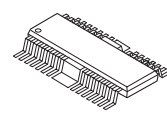
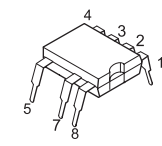
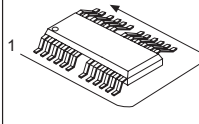
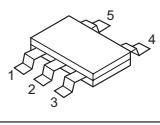
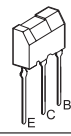
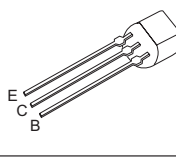
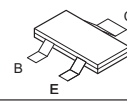
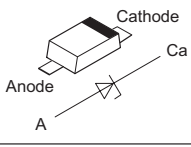
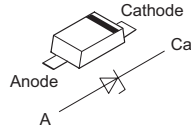
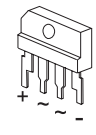
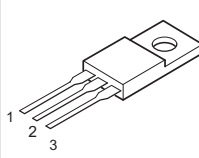
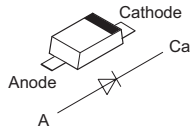
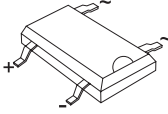
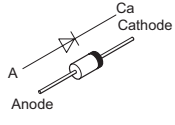
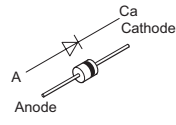
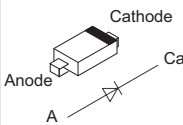
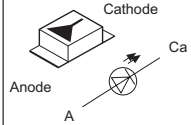
SC-HC3P/PC SMPS P.C.B.

## 11.8. Waveform Chart

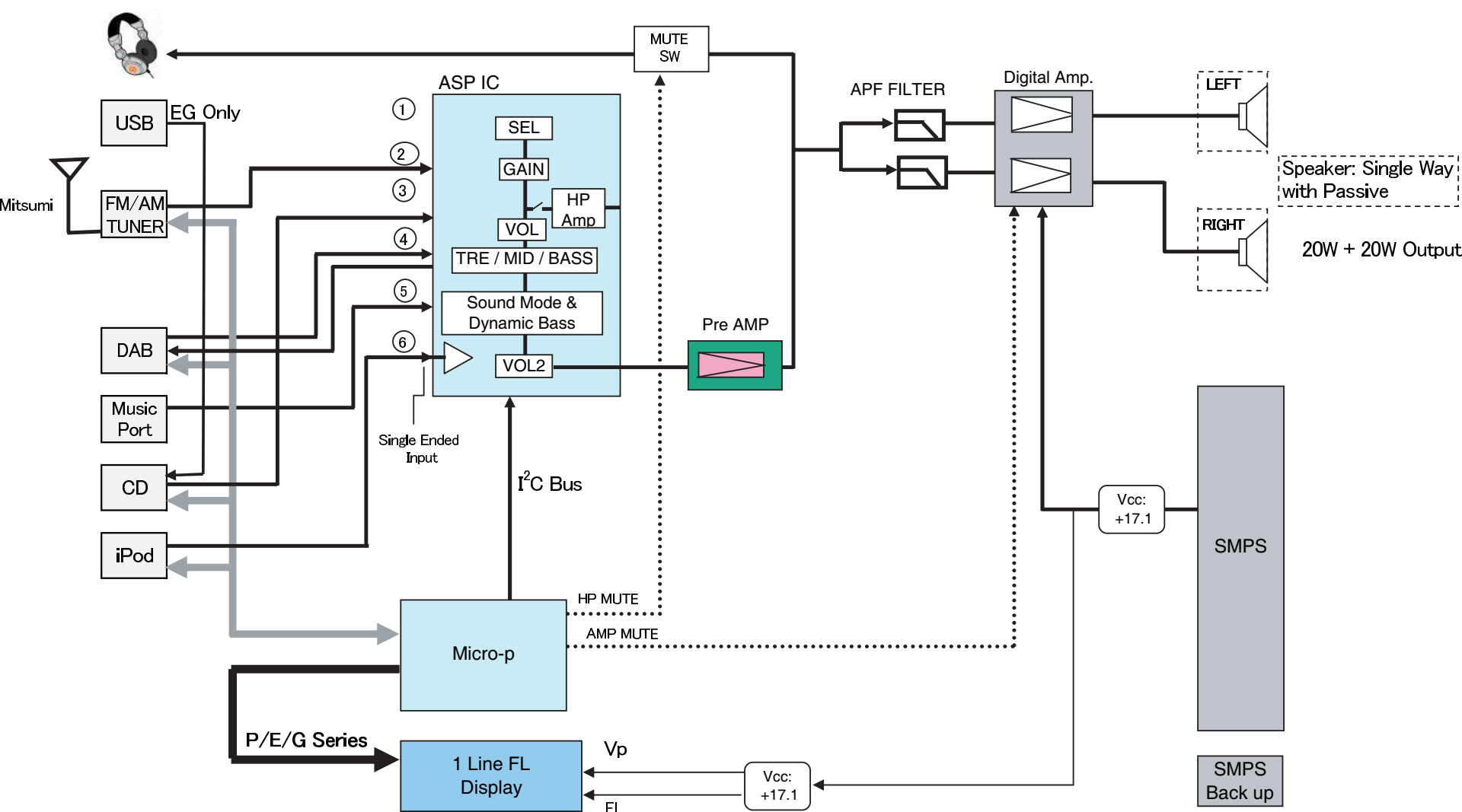


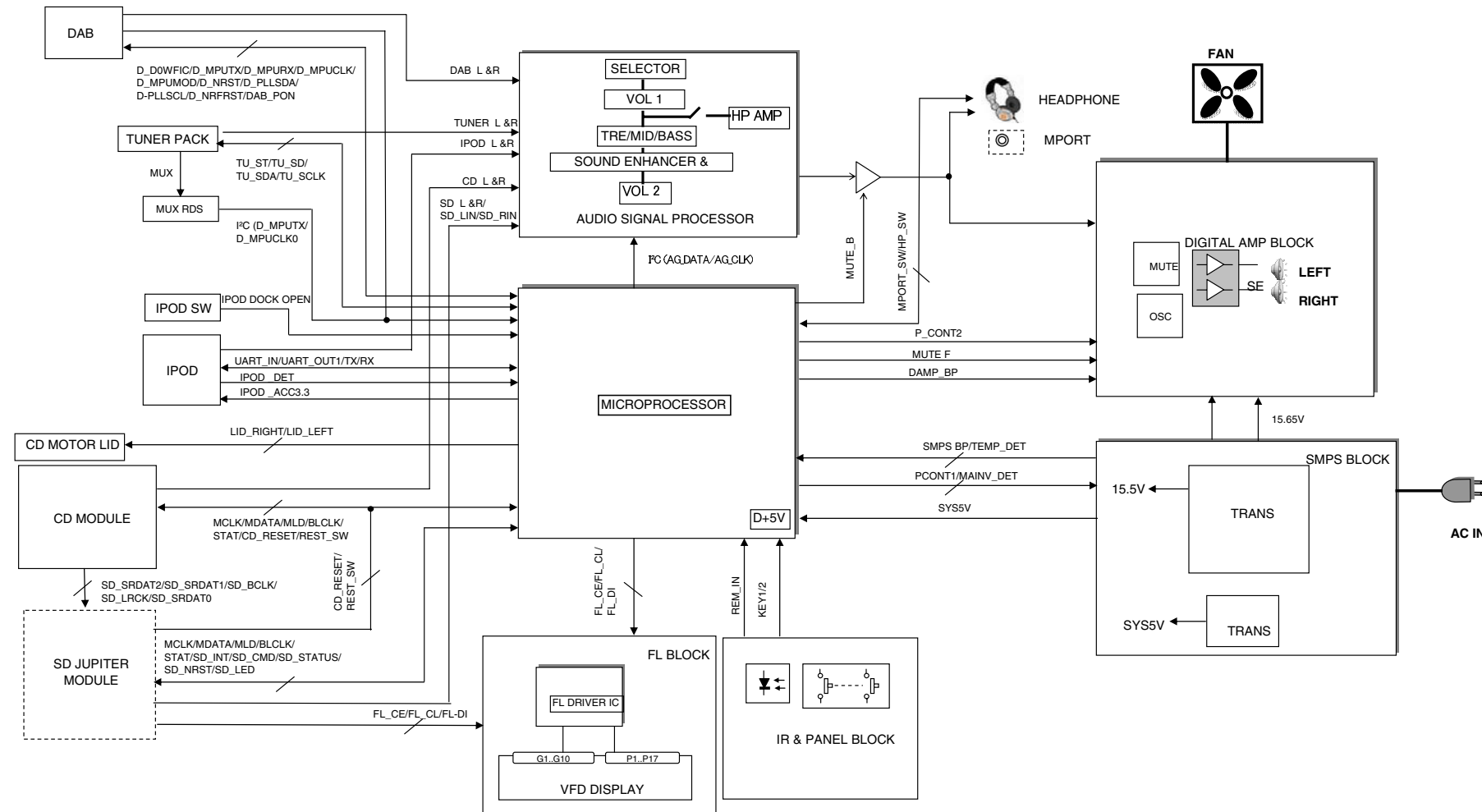


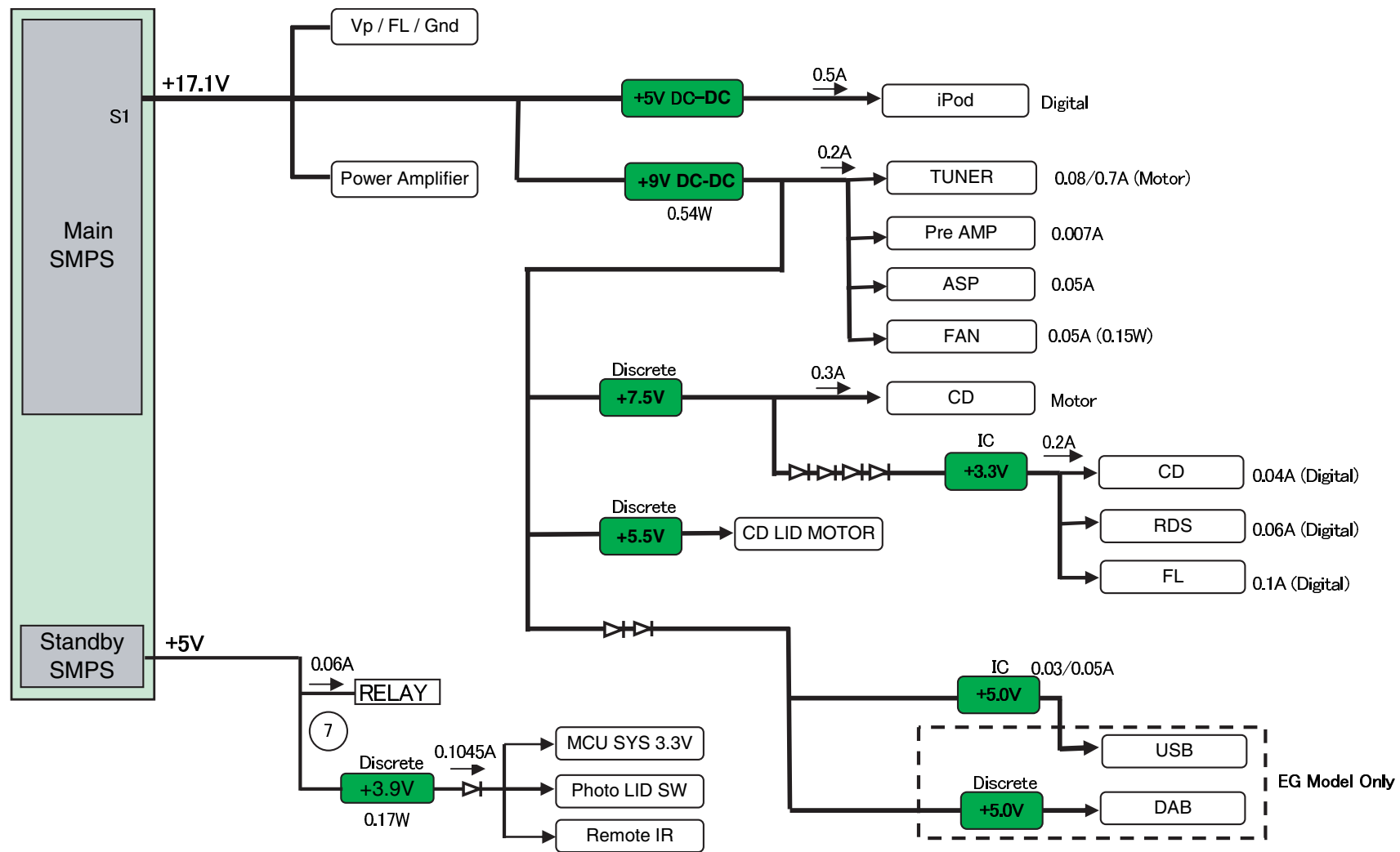
# 12 Illustration of IC's, Transistors and Diodes

|                                                                                                                                                          |                                                                                                                                   |                                                                                                                     |                                                                                                                                                                             |                                                                                                                        |                                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| C1AB00003012 (44P)<br>C0ABBB000230 (8P)<br>                             | B0ADCJ000020<br>                                 | C0CBCBD00008<br>C0CBCBC00090<br>   | C1AB00003013 (52P)<br>C0HBB0000057 (44P)<br>MN6627954AMA (100P)<br>RFKWMABC3-S (100P)<br> | C0DAEMZ00001<br>                    | C0DAAMH00013<br>                 |
| C0GAE0000007<br>                                                        | C0DBAYH00005<br>                                 | C0AABB000085<br>                   | BA5948FPE2 (28P)<br>                                                                      | MIP2F20MSSCF<br>                    | C3ABMB000050 (26P)<br>           |
| C0EBE0000482<br>C0EBJ0000336<br>                                        | B1BAAJ000003<br>B1ACND000003<br>B1BABK000001<br> | B1ACKD000006<br>                   | B1ABCF000176<br>B1ABEC000010<br>B1ADCF000001<br>UNR521100L<br>                             | B1ABGC000005<br>B1ADCE000012<br>B1GBCFJJ0051<br>B1GDCFGG0026<br>B1ABDF000026<br>UNR221300L<br>UNR521300L<br>UNR511100L | B0BC5R600003<br>B0BC7R5A0266<br> |
| MAZ80330LL<br>MAZ82700LL<br>MAZ83000ML<br>MAZ80300LL<br>MAZJ72800L<br> | B0EBNR000015<br>                                | B0ZAZ0000052<br>B0HBSM000052<br> | MA2SD320GL<br>B0JCMD000010<br>                                                          | MA2J1110GL<br>MA2J11100L<br>MAZ80560ML<br>MAZ8033G0L<br>B0BC6R100010<br>B0JCPD000043<br>B0ACCK000005<br>MAZ81800ML     |                                                                                                                     |
| B0EDKT000009<br>                                                      | B0EAMM000057<br>B0JAME000029<br>               | B0JAMF000011<br>B0HAMP000094<br> | B0HAJM000005<br>B0JCME000035<br>B0HCMM000019<br>                                        | B3AAB0000144<br>                  |                                                                                                                     |

13 Overall Simplified Block



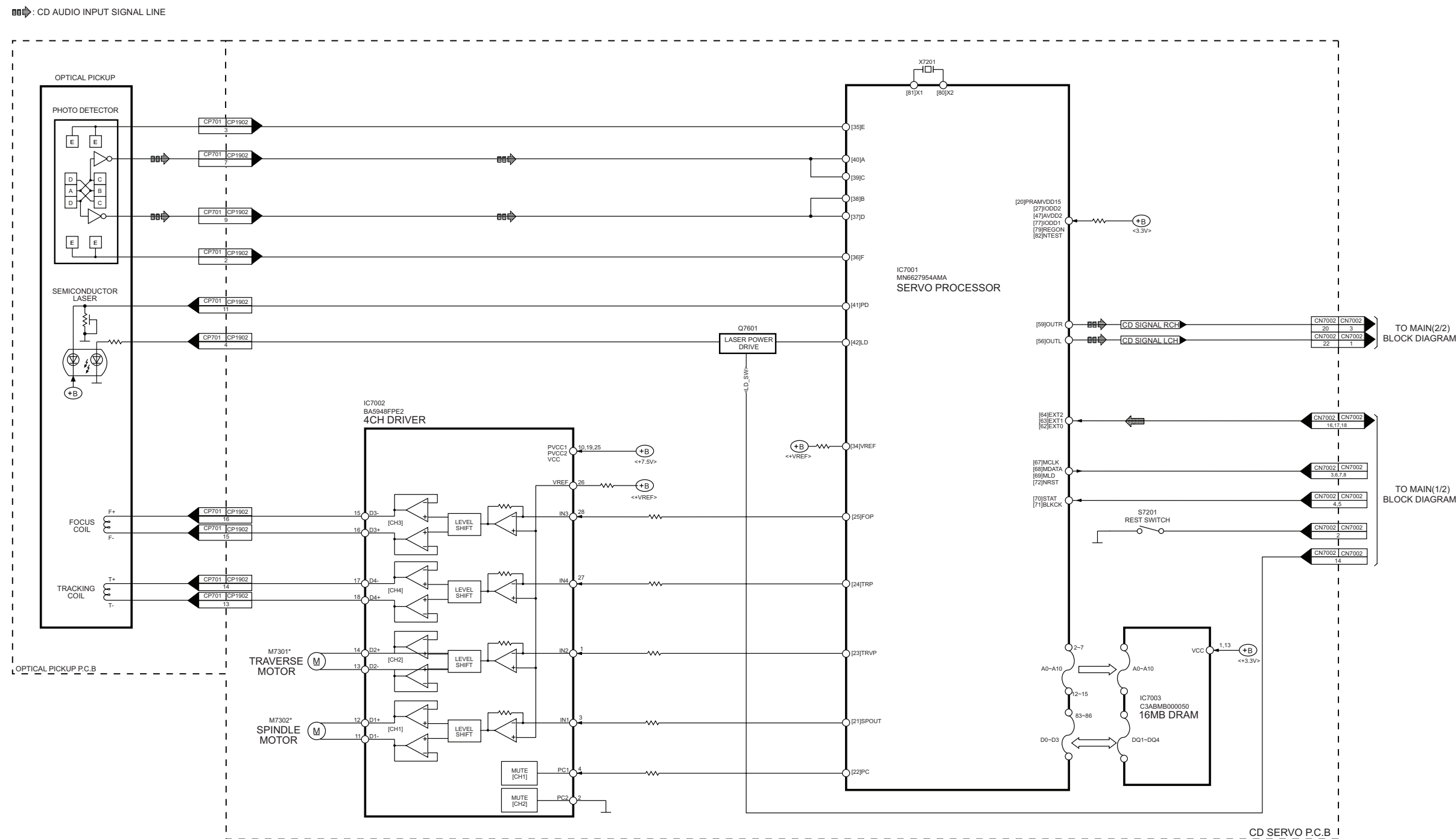






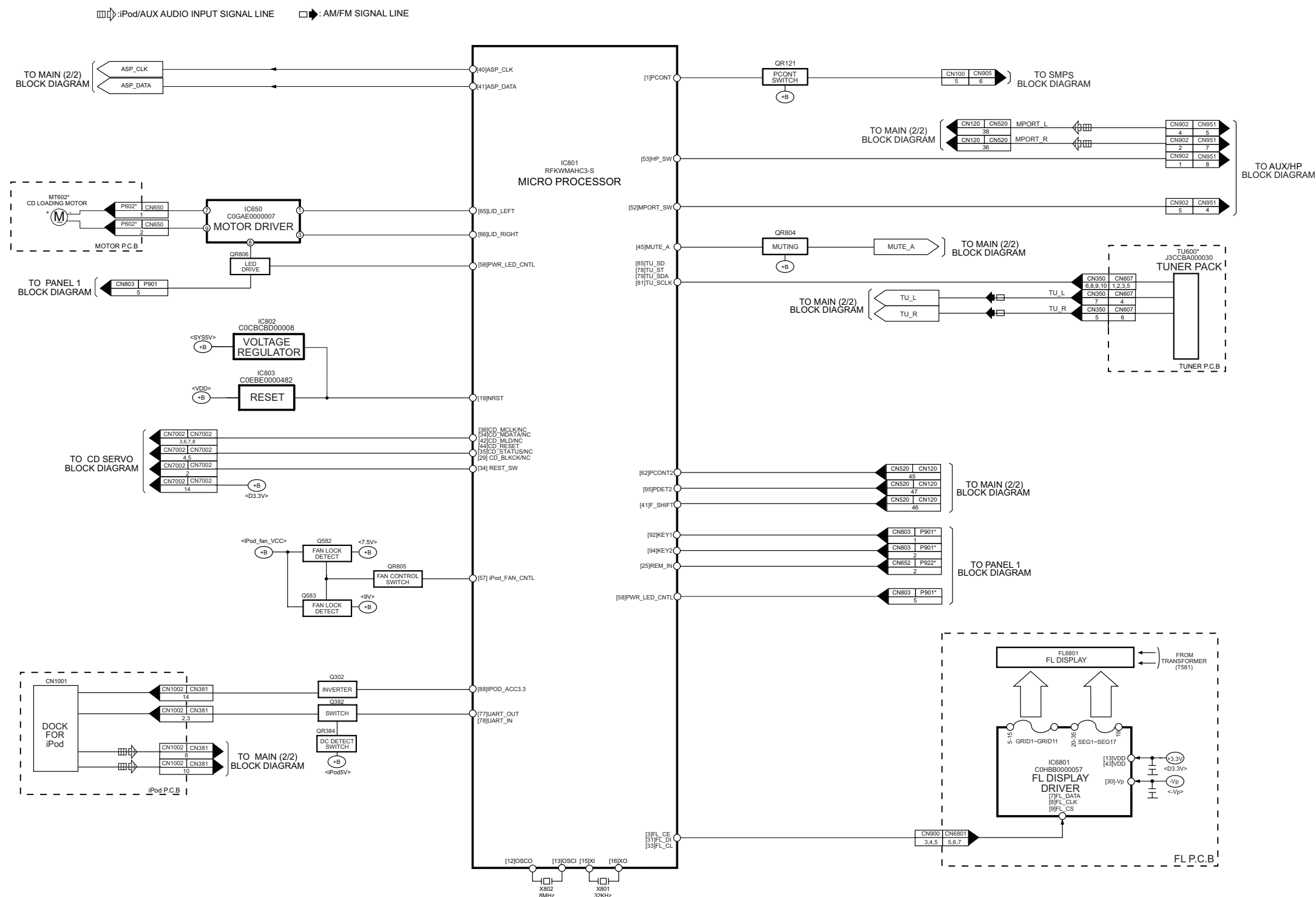
# 14 Block Diagram

## 14.1. CD SERVO BLOCK DIAGRAM



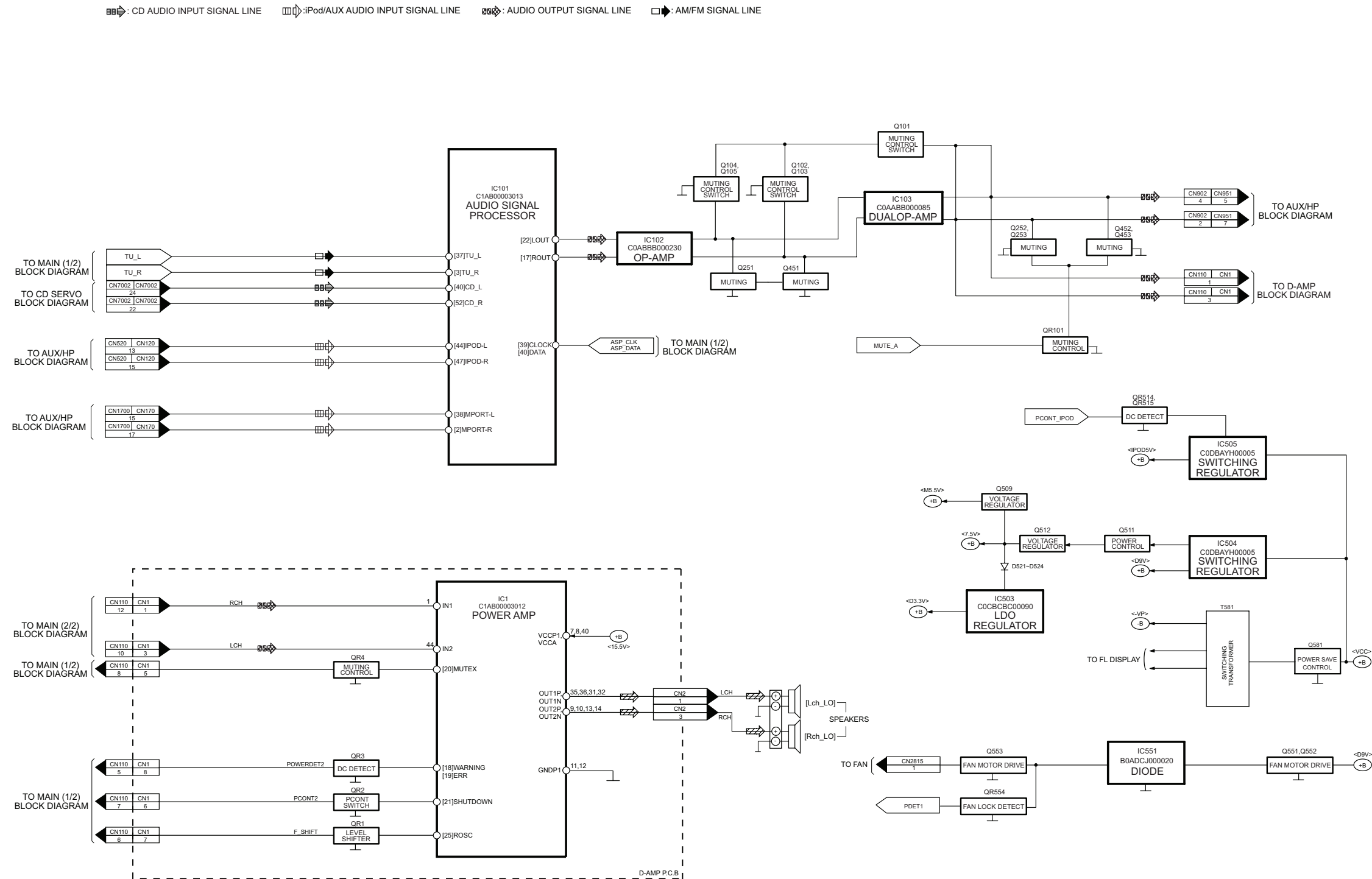
SC-HC3P/PC CD SERVO BLOCK DIAGRAM

14.2. MAIN (1/2) / TUNER / iPod / FL / MOTOR BLOCK DIAGRAM



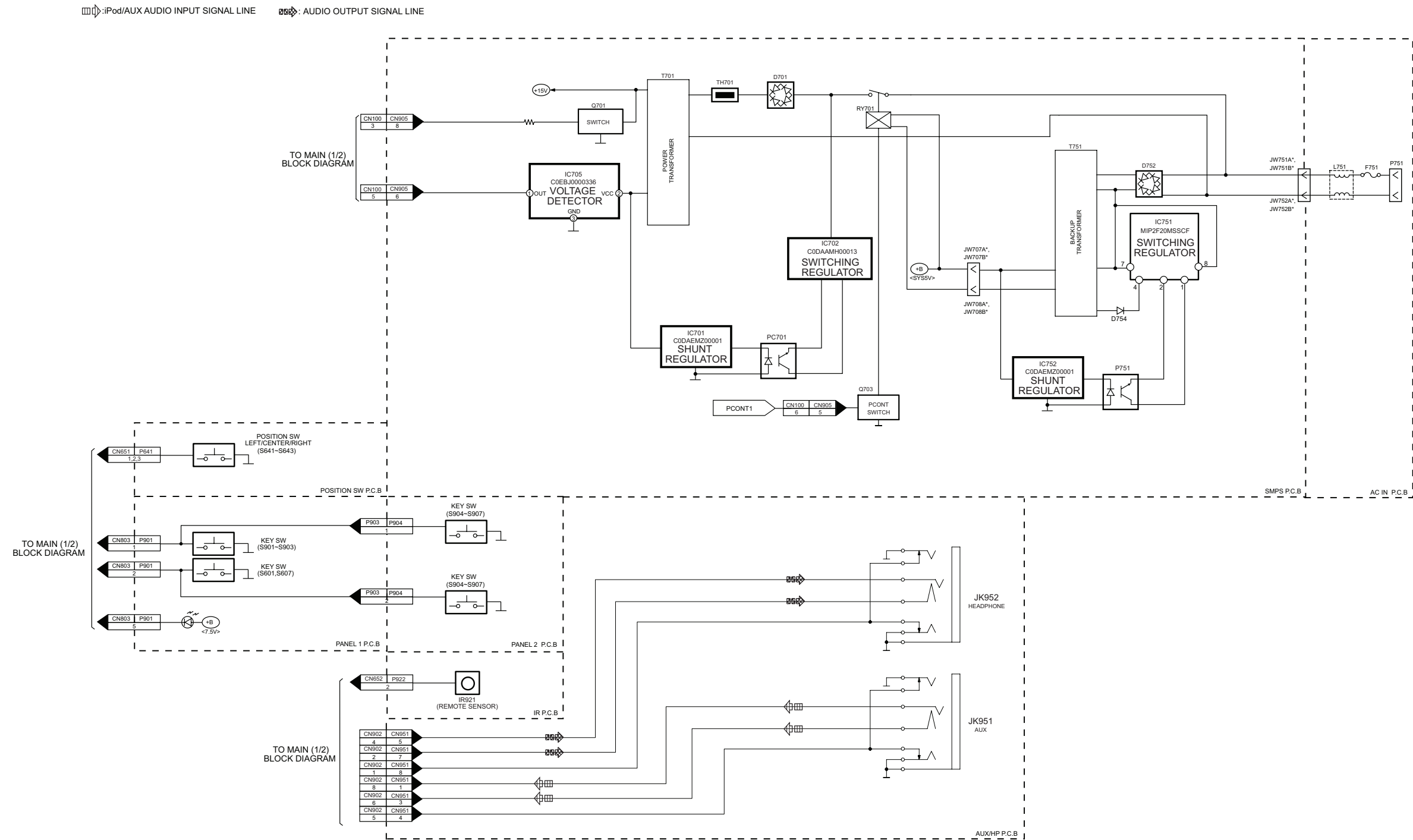
SC-HC3P/PC MAIN (1/2) / TUNER / iPod / FL / MOTOR BLOCK DIAGRAM

### 14.3. MAIN (2/2) / D-AMP BLOCK DIAGRAM



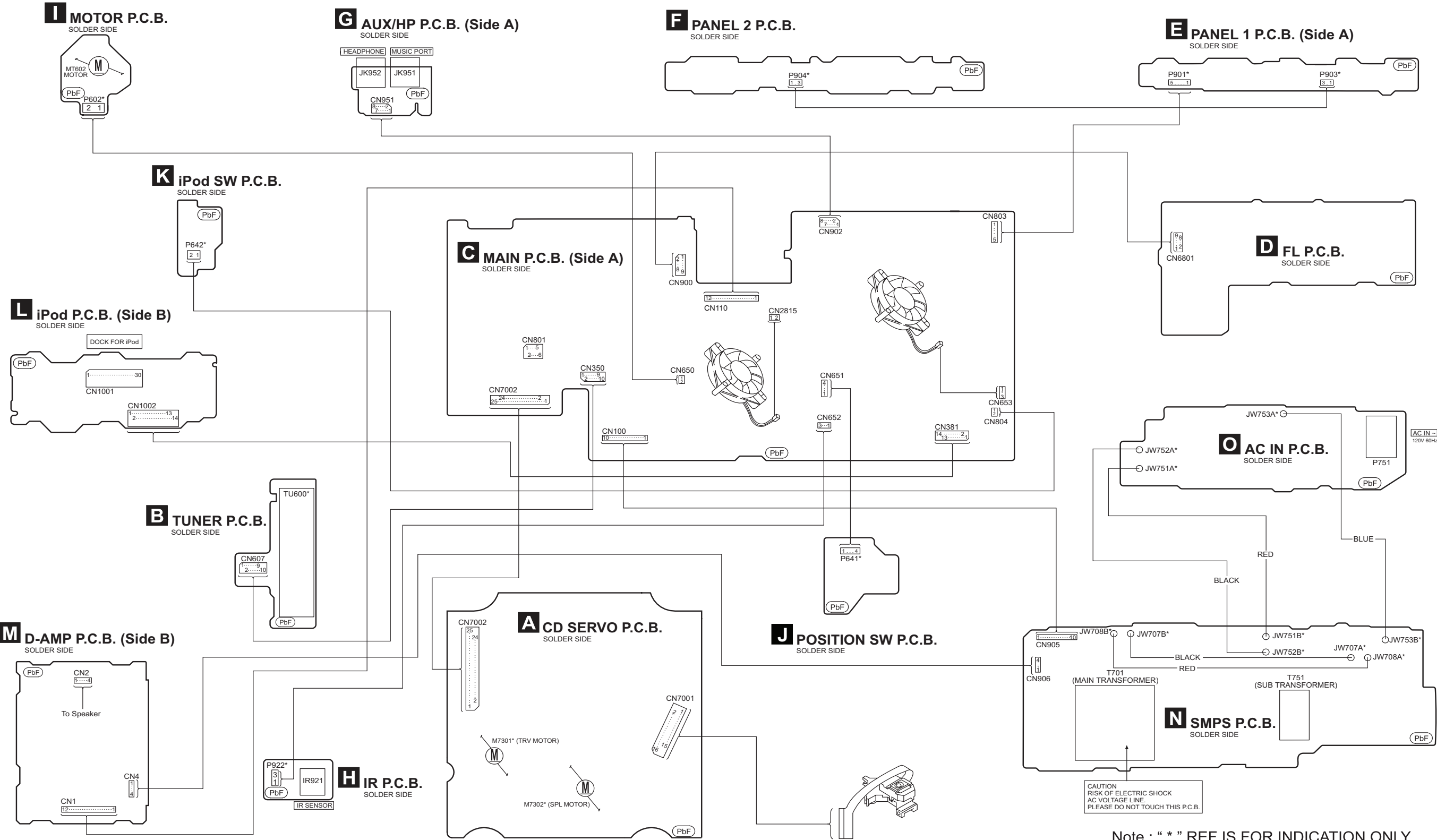
SC-HC3P/PC MAIN (2/2) / D-AMP BLOCK DIAGRAM

#### 14.4. PANEL1/2 / AUX/HP / IR / SMPS / AC IN BLOCK DIAGRAM



SC-HC3P/PC PANEL1/2 / AUX/HP / IR / SMPS / AC IN BLOCK DIAGRAM

15 Wiring Connection Diagram



Note : “ \* ” REF IS FOR INDICATION ONLY.

# 16 Schematic Diagram Notes

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

## Notes:

|               |                                                                                                                   |
|---------------|-------------------------------------------------------------------------------------------------------------------|
| <b>S641:</b>  | LEFT switch.                                                                                                      |
| <b>S642:</b>  | CENTER switch.                                                                                                    |
| <b>S643:</b>  | RIGHT switch.                                                                                                     |
| <b>S644:</b>  | iPod DOCK OPEN switch.                                                                                            |
| <b>S901:</b>  | POWER switch (  ).               |
| <b>S902:</b>  | iPod OPEN/CLOSE switch (iPod  ). |
| <b>S903:</b>  | iPod PLAY/PAUSE switch (iPod  ). |
| <b>S904:</b>  | FM/AM switch.                                                                                                     |
| <b>S905:</b>  | Aux switch.                                                                                                       |
| <b>S906:</b>  | CD PLAY/PAUSE switch (CD  ).     |
| <b>S907:</b>  | CD OPEN/CLOSE switch (CD  ).     |
| <b>S911:</b>  | REV SKIP switch (  ).            |
| <b>S912:</b>  | FWD SKIP switch (  ).            |
| <b>S913:</b>  | STOP switch (  ).                |
| <b>S914:</b>  | VOL- switch.                                                                                                      |
| <b>S915:</b>  | VOL+ switch (  ).                |
| <b>S916:</b>  | SD REC D.BASS switch.                                                                                             |
| <b>S7201:</b> | REST switch.                                                                                                      |

- \* Ref Is For Indication Only.

## • Importance safety notice :

Components identified by () 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.

- Capacitor values are in microfarad( $\mu$ F) unless specified otherwise, F=Farad, pF=Pico-Farad  
Resistance values are in ohm( $\Omega$ ), unless specified otherwise, 1K=1,000 $\Omega$ , 1M=1,000K $\Omega$

## • Voltage and Signal lines:

|                                                                                     |                                    |
|-------------------------------------------------------------------------------------|------------------------------------|
|  | : +B Signal Line                   |
|  | : CD Audio Input Signal Line       |
|  | : AM/FM Signal Line                |
|  | : -B Signal Line                   |
|  | : iPod/Aux Audio Input Signal Line |
|  | : Audio Output Signal Line         |

## FUSE CAUTION



These symbols located near the fuse indicates 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.



Ce symbole indique que le fusible utilisé est à rapide. Pour une protection permanente, n' utiliser que des fusibles de même type. Ce dernier est indiqué là où le présent symbole est apposé.

**CAUTION:** FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE F751 3A, 125V FUSE

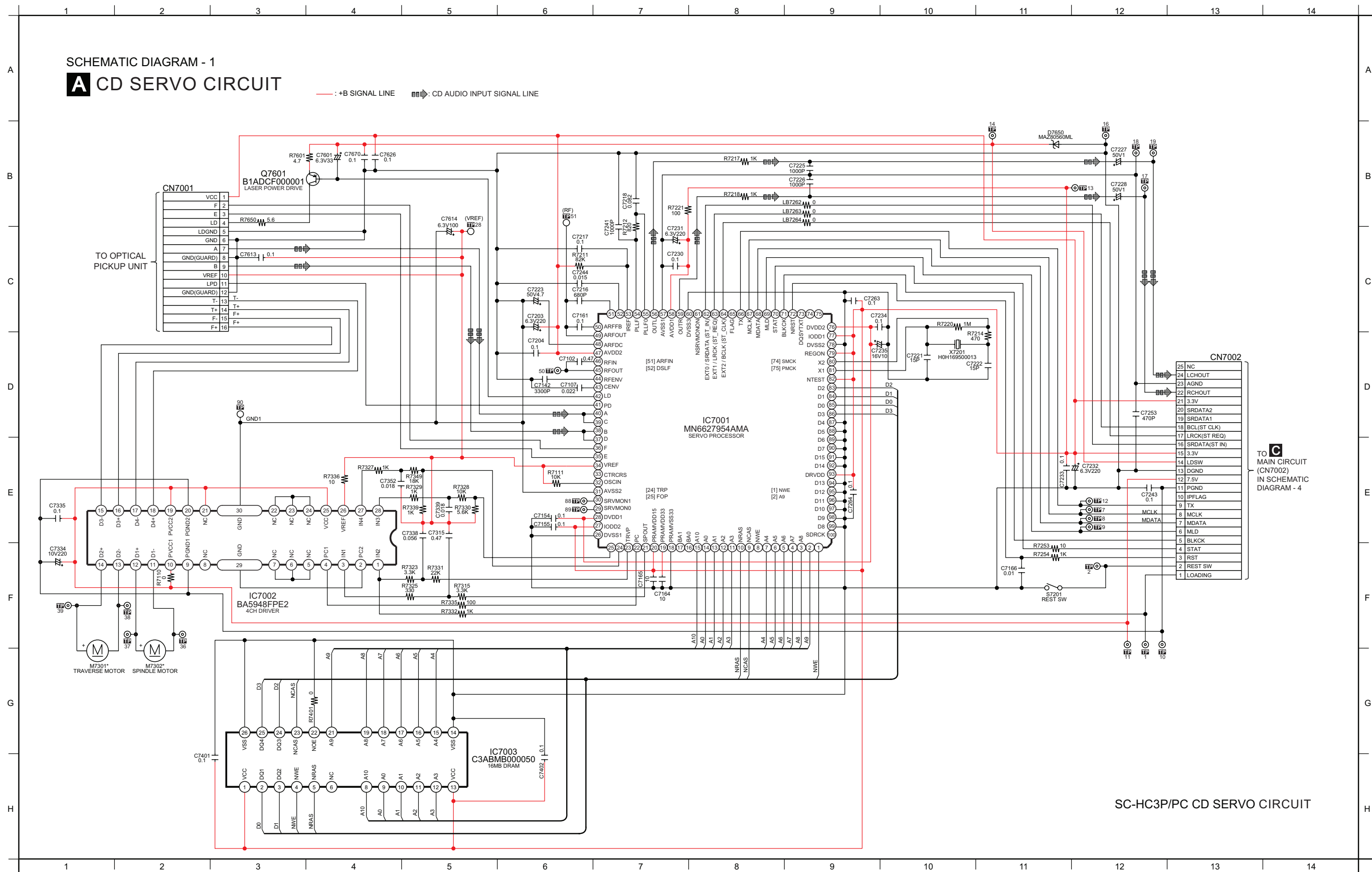


RISK OF FIRE-REPLACE FUSE AS MARKED.

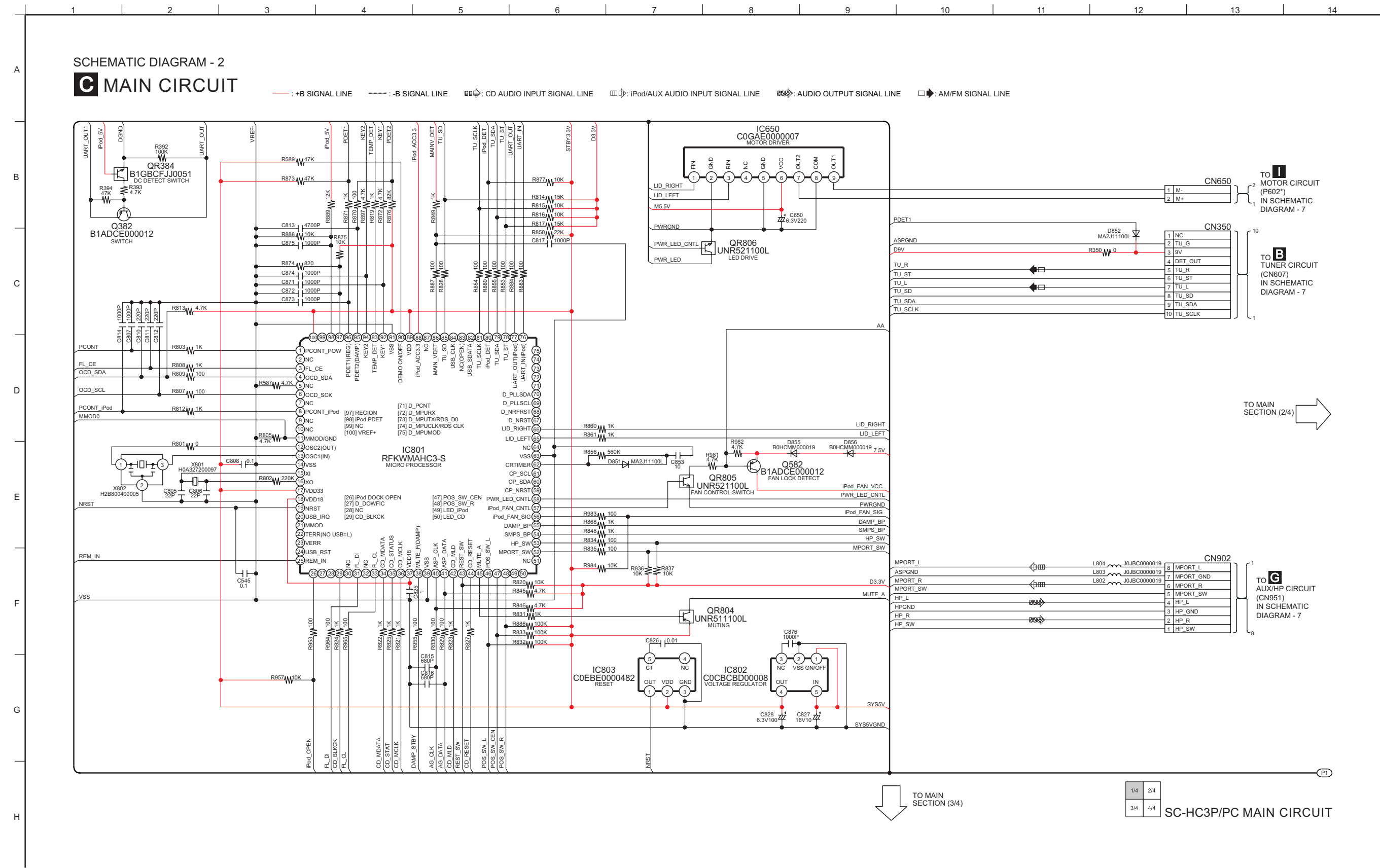


# 17 Schematic Diagram

## 17.1. CD SERVO CIRCUIT



17.2. MAIN CIRCUIT (1/4)

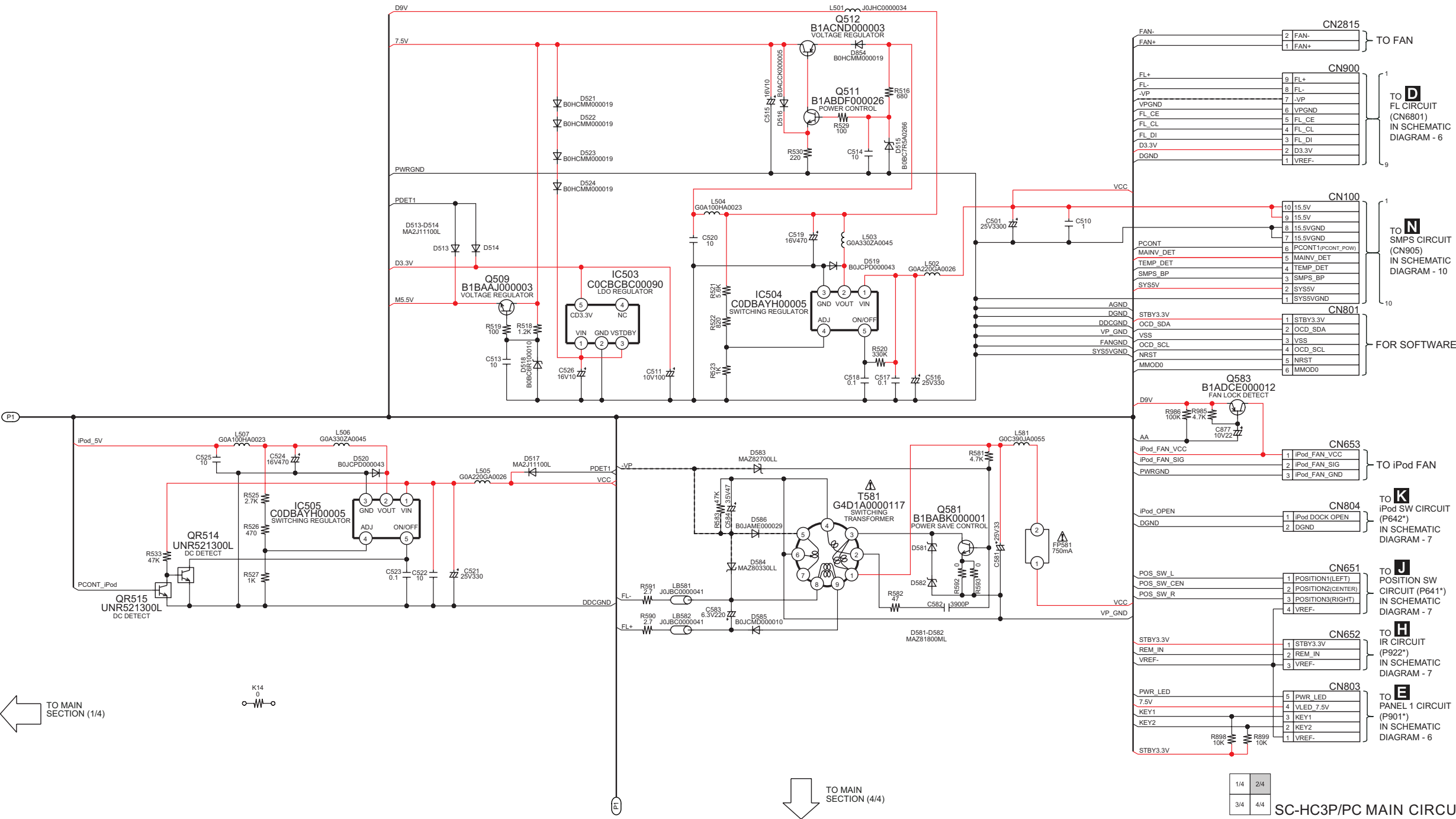




17.3. MAIN CIRCUIT (2/4)

SCHEMATIC DIAGRAM - 3

MAIN CIRCUIT

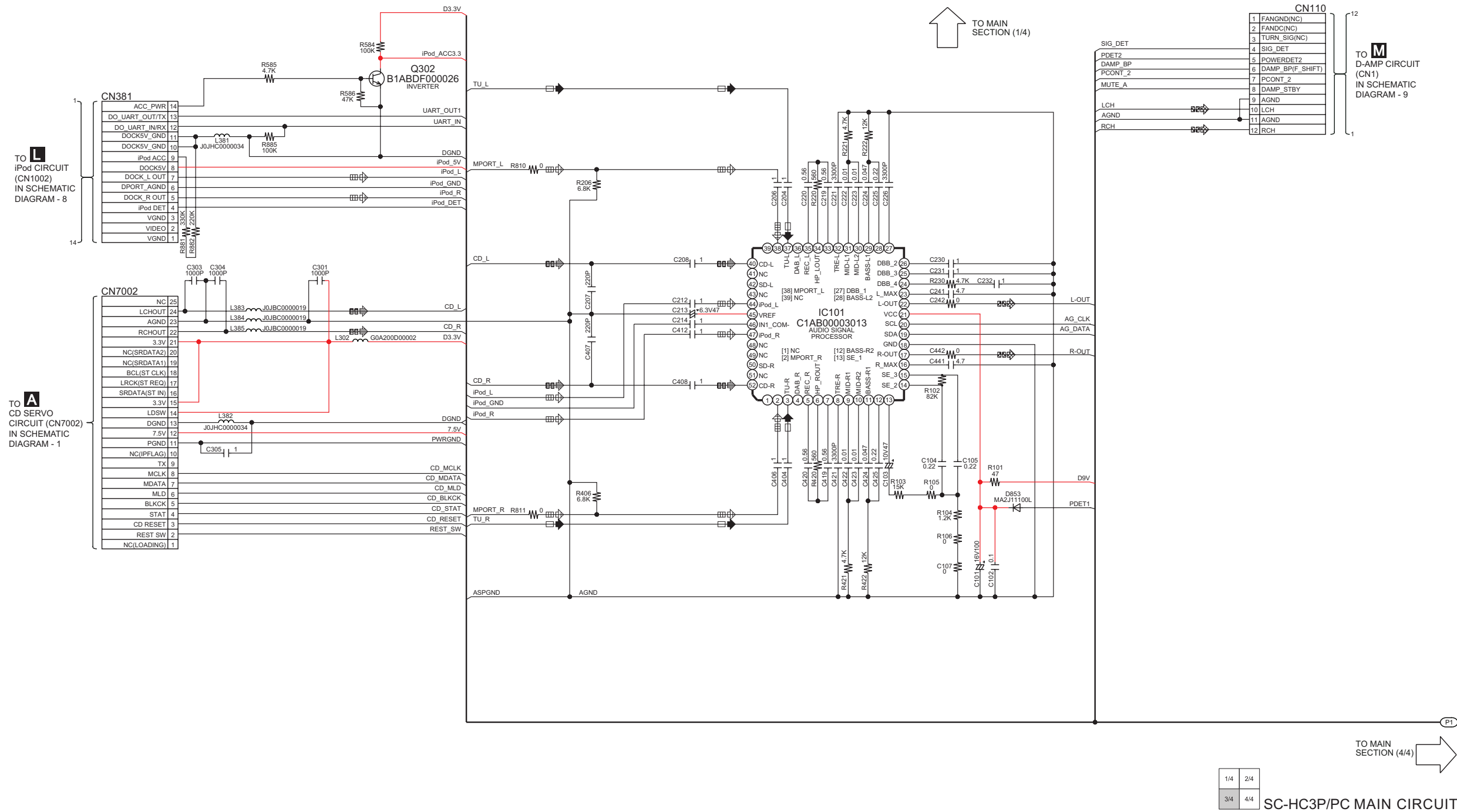


17.4. MAIN CIRCUIT (3/4)

SCHEMATIC DIAGRAM - 4

C MAIN CIRCUIT

— : +B SIGNAL LINE    — : -B SIGNAL LINE    : CD AUDIO INPUT SIGNAL LINE    : iPod/AUX AUDIO INPUT SIGNAL LINE    : AUDIO OUTPUT SIGNAL LINE    : AM/FM SIGNAL LINE

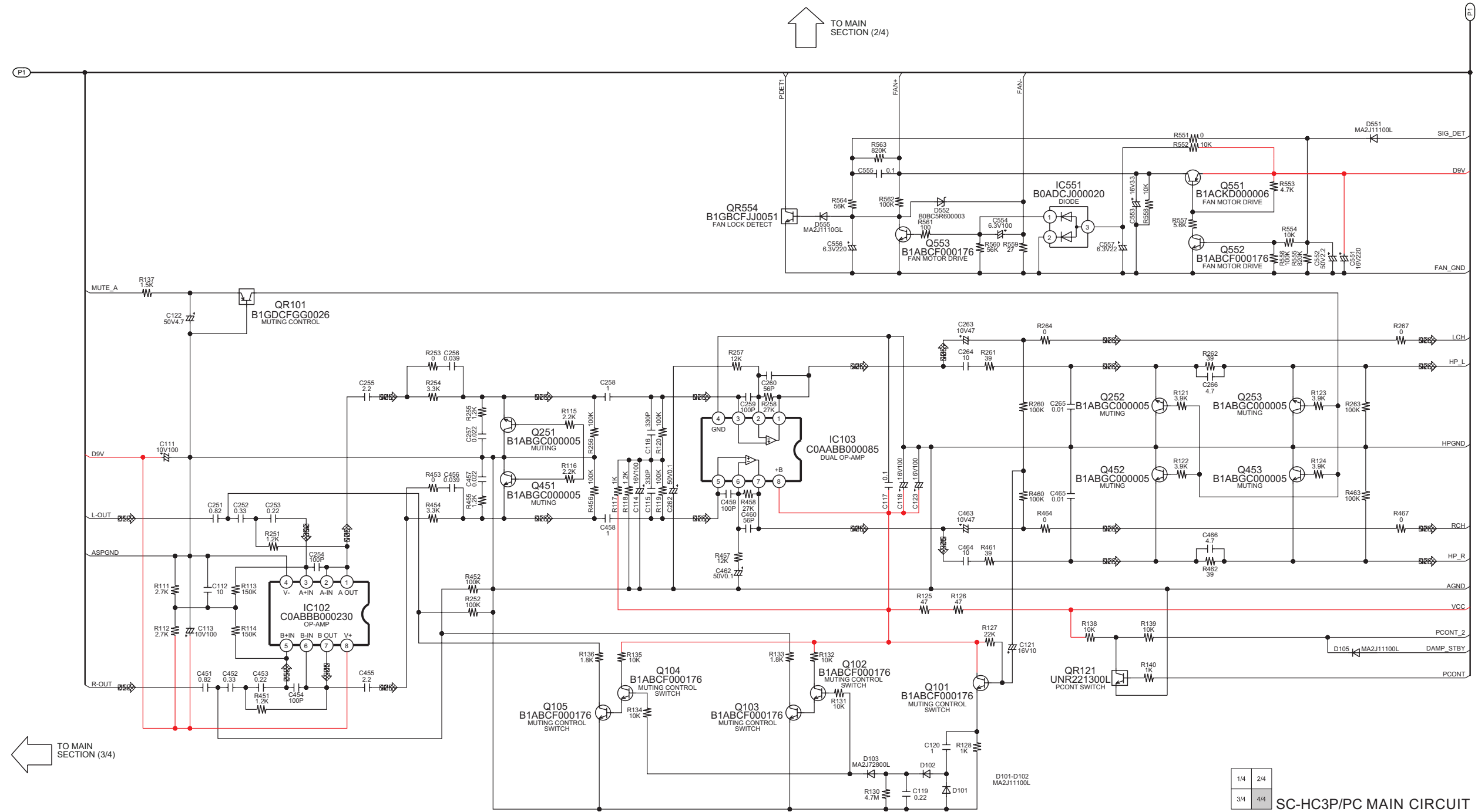


## 17.5. MAIN CIRCUIT (4/4)

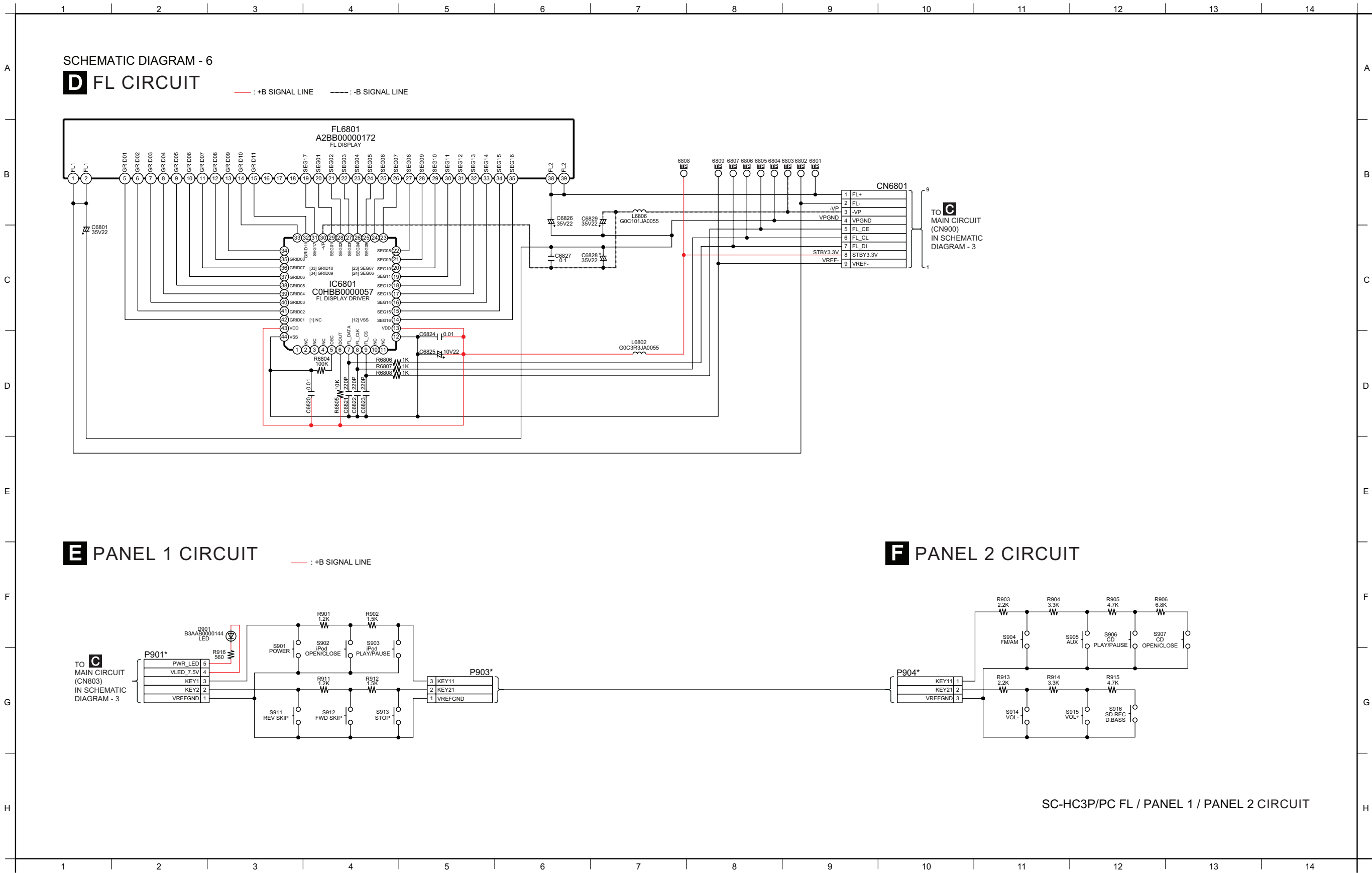
SCHEMATIC DIAGRAM - 5

## C MAIN CIRCUIT

— : +B SIGNAL LINE    --- : -B SIGNAL LINE     : CD AUDIO INPUT SIGNAL LINE     : iPod/AUX AUDIO INPUT SIGNAL LINE     : AUDIO OUTPUT SIGNAL LINE     : AM/FM SIGNAL LINE



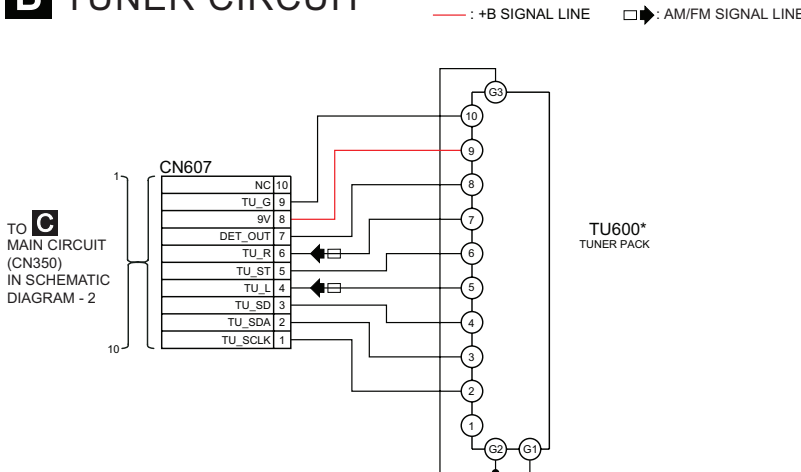
17.6. FL CIRCUIT, PANEL 1 CIRCUIT and PANEL 2 CIRCUIT



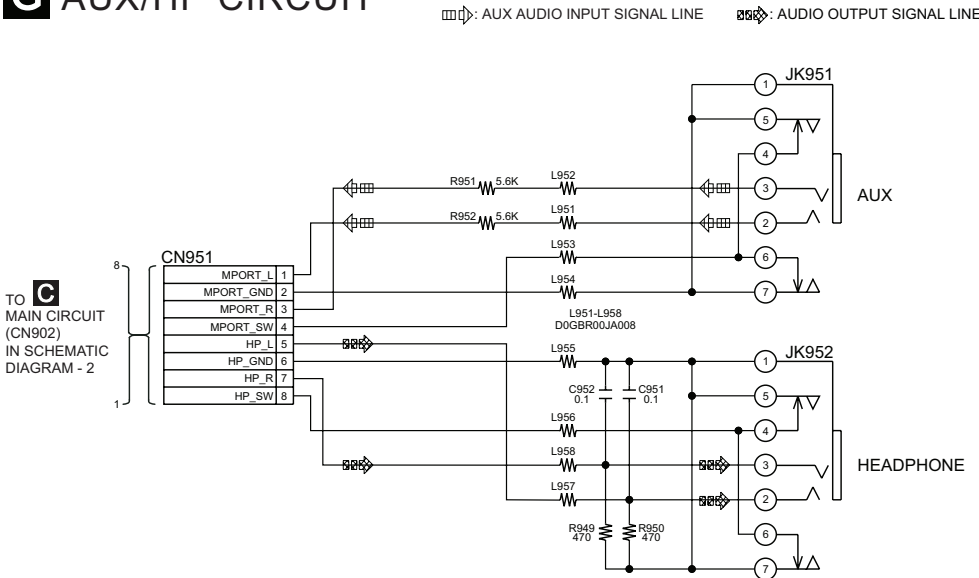
17.7. TUNER CIRCUIT, AUX/HP CIRCUIT, IR CIRCUIT, MOTOR CIRCUIT, POSITION SW CIRCUIT and iPod SW CIRCUIT

SCHEMATIC DIAGRAM - 7

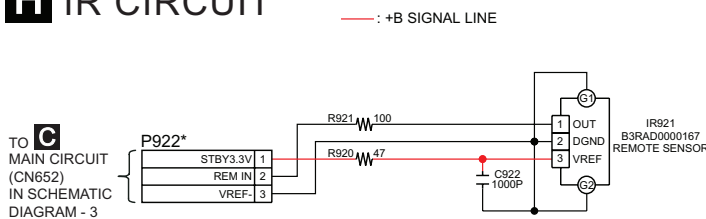
**B** TUNER CIRCUIT



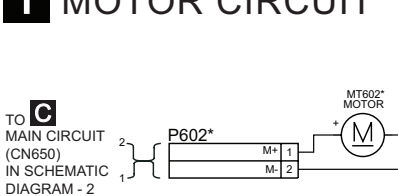
**G** AUX/HP CIRCUIT



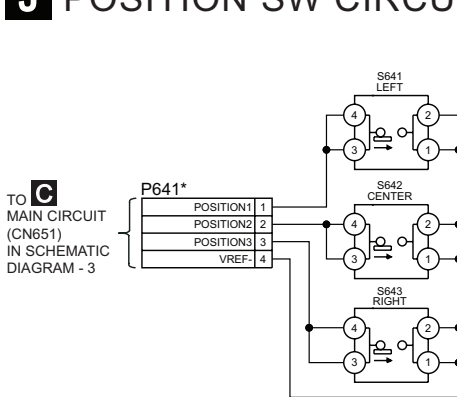
**H** IR CIRCUIT



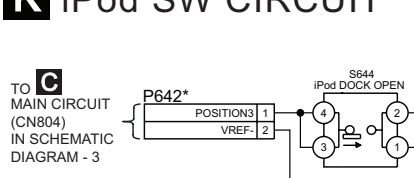
**I** MOTOR CIRCUIT



**J** POSITION SW CIRCUIT

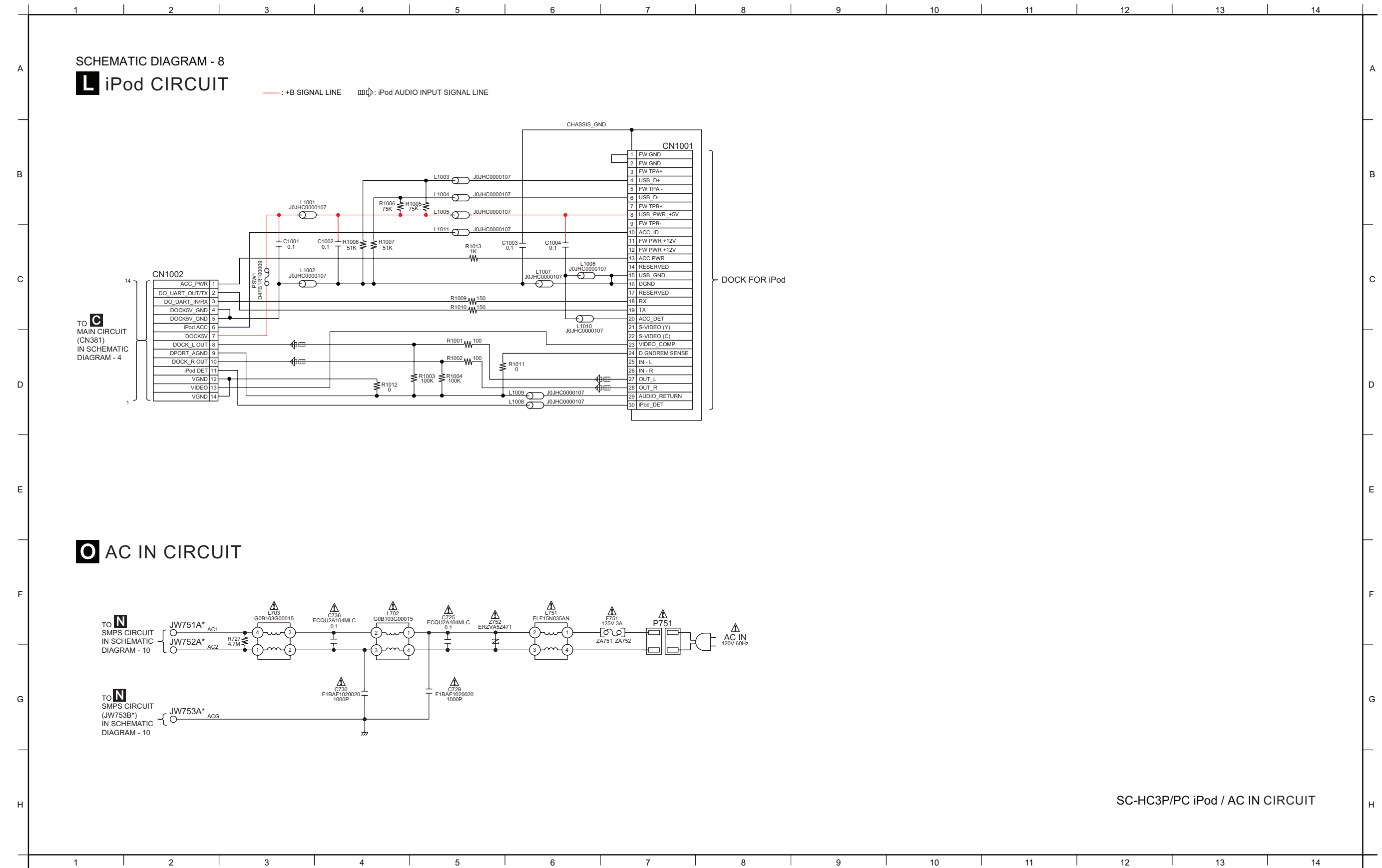


**K** iPod SW CIRCUIT



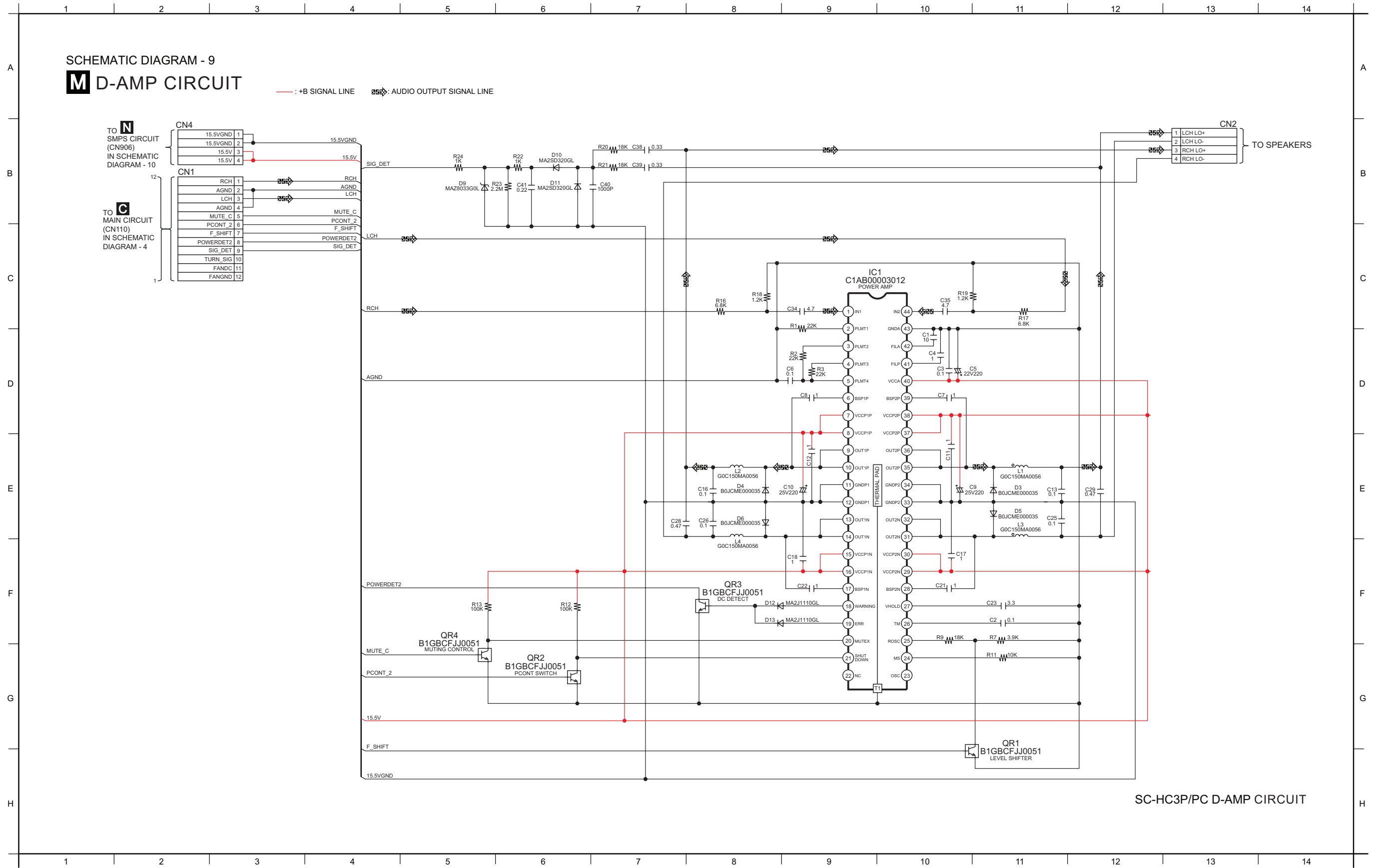
SC-HC3P/PC TUNER / AUX/HP / IR / MOTOR / POSITION SW / iPod SW CIRCUIT

## 17.8. iPod CIRCUIT and AC IN CIRCUIT

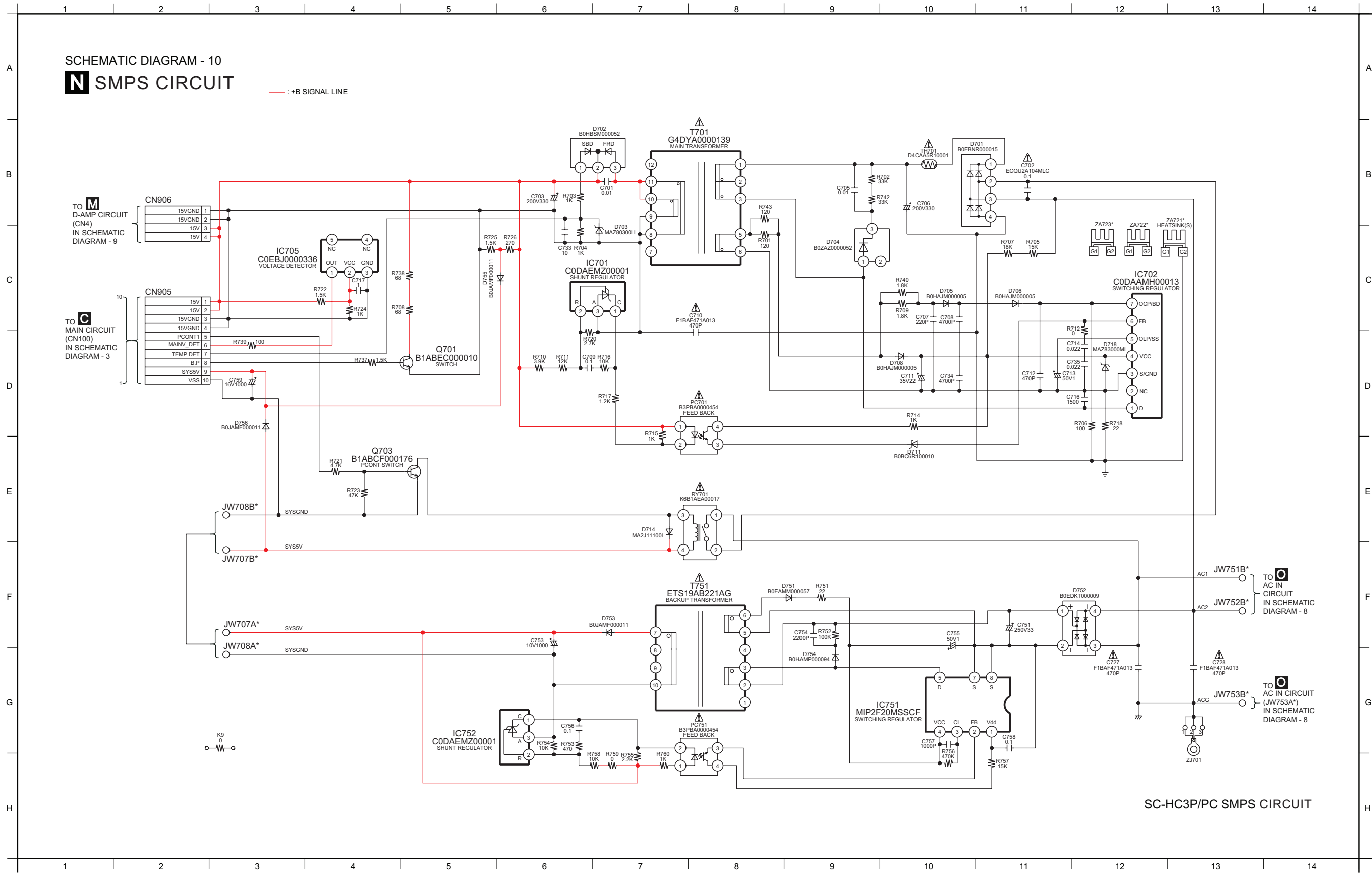




17.9. D-AMP CIRCUIT



17.10. SMPS CIRCUIT

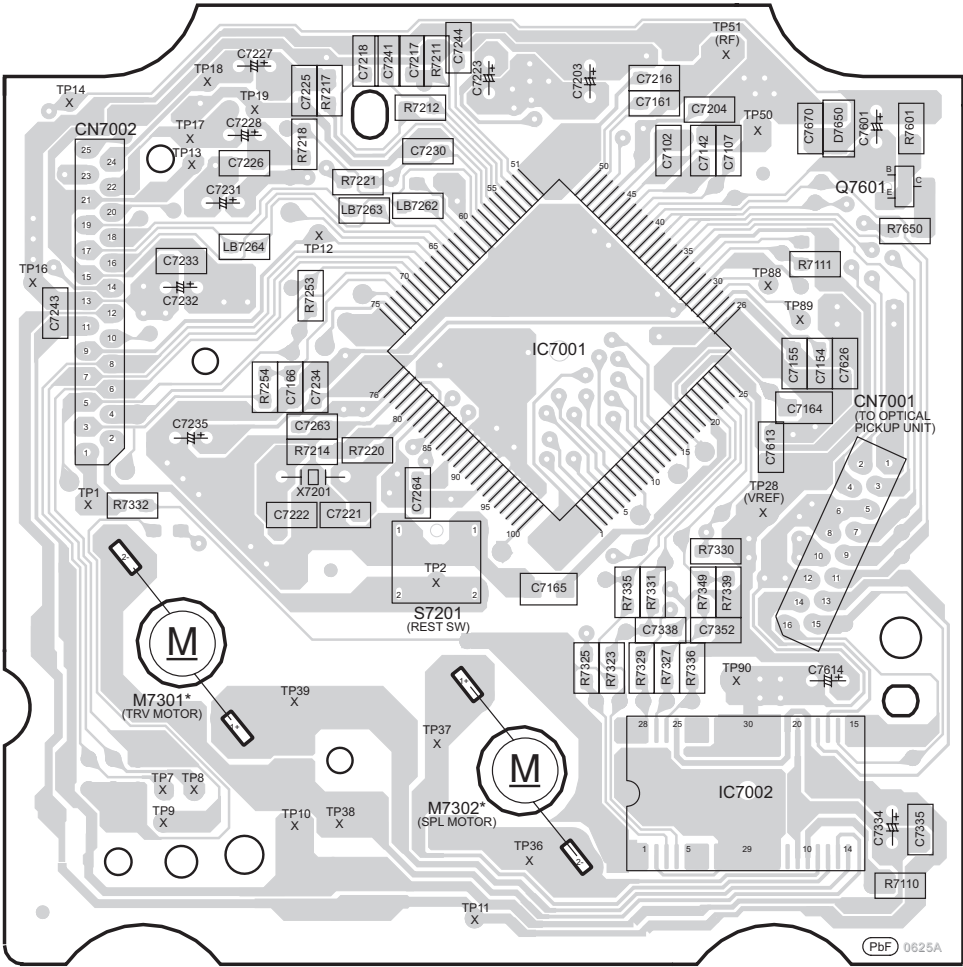




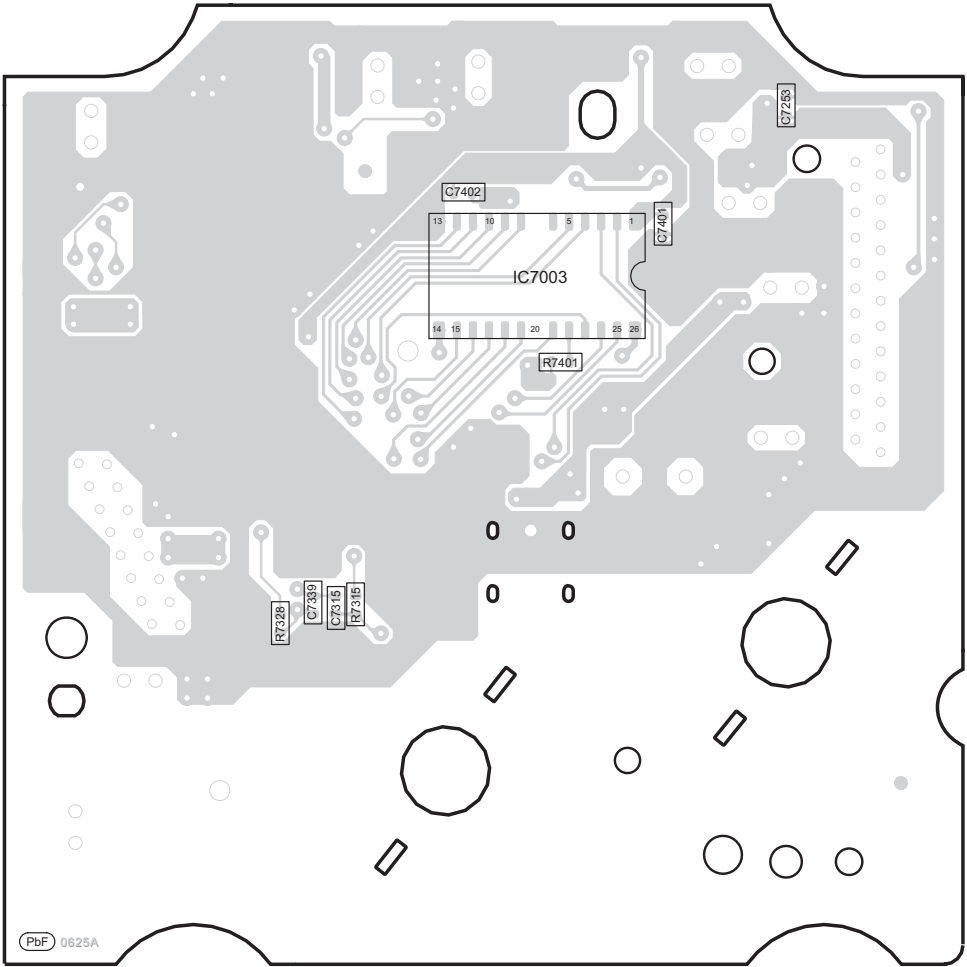
18 Printed Circuit Board

18.1. CD SERVO P.C.B.

**A** CD SERVO P.C.B. (REPX0723A)



(SIDE A)



(SIDE B)

NOTE: " \* " REF IS FOR INDICATION ONLY

SC-HC3P/PC  
CD SERVO P.C.B.

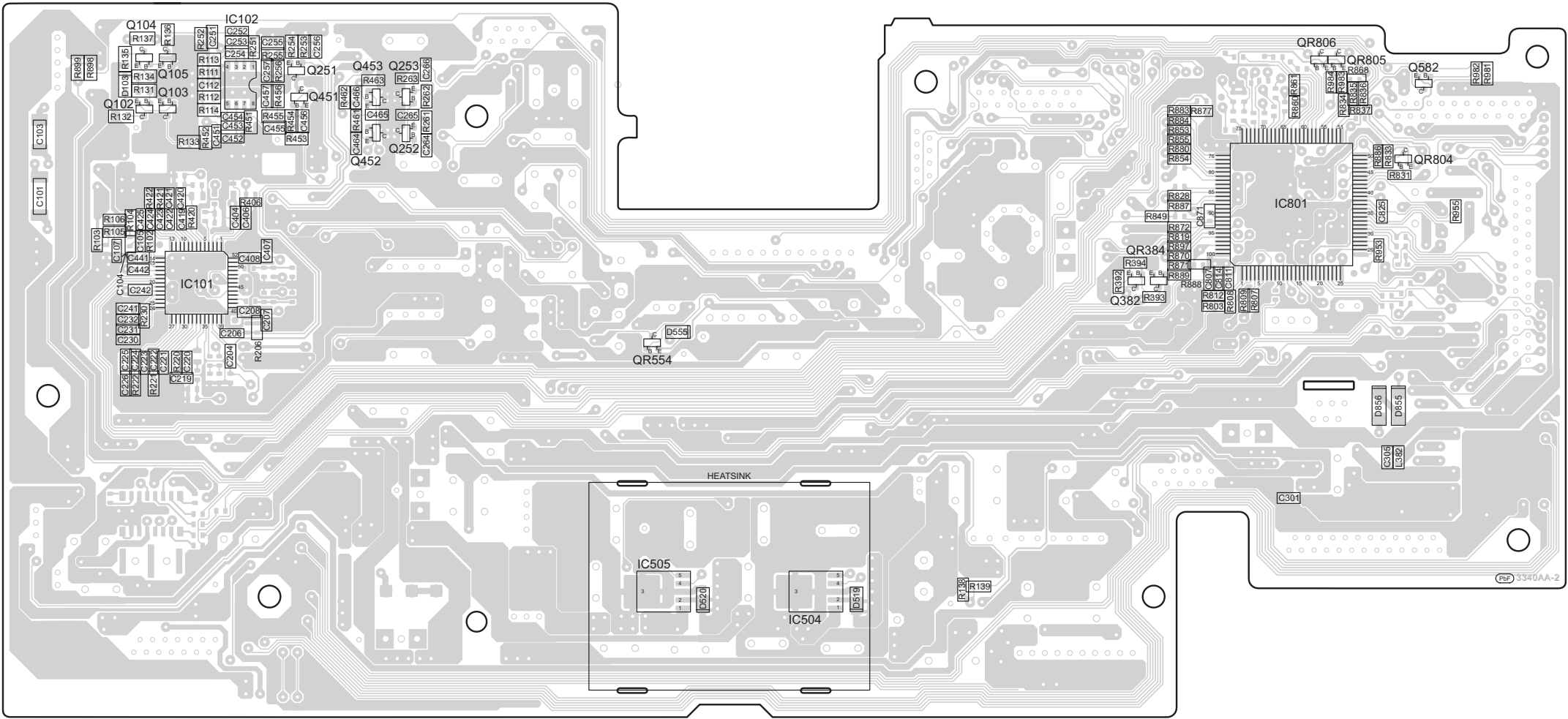
A vertical scale with labels A, B, C, D, E, F, G, H from bottom to top.

PbF 3340AA-2

A horizontal number line with tick marks at every integer from 1 to 13. The numbers 1 through 13 are labeled below the line.

18.3. MAIN P.C.B. (2/2)

**C** MAIN P.C.B. (REPX0754G)



(SIDE B)

SC-HC3P/PC  
MAIN P.C.B.

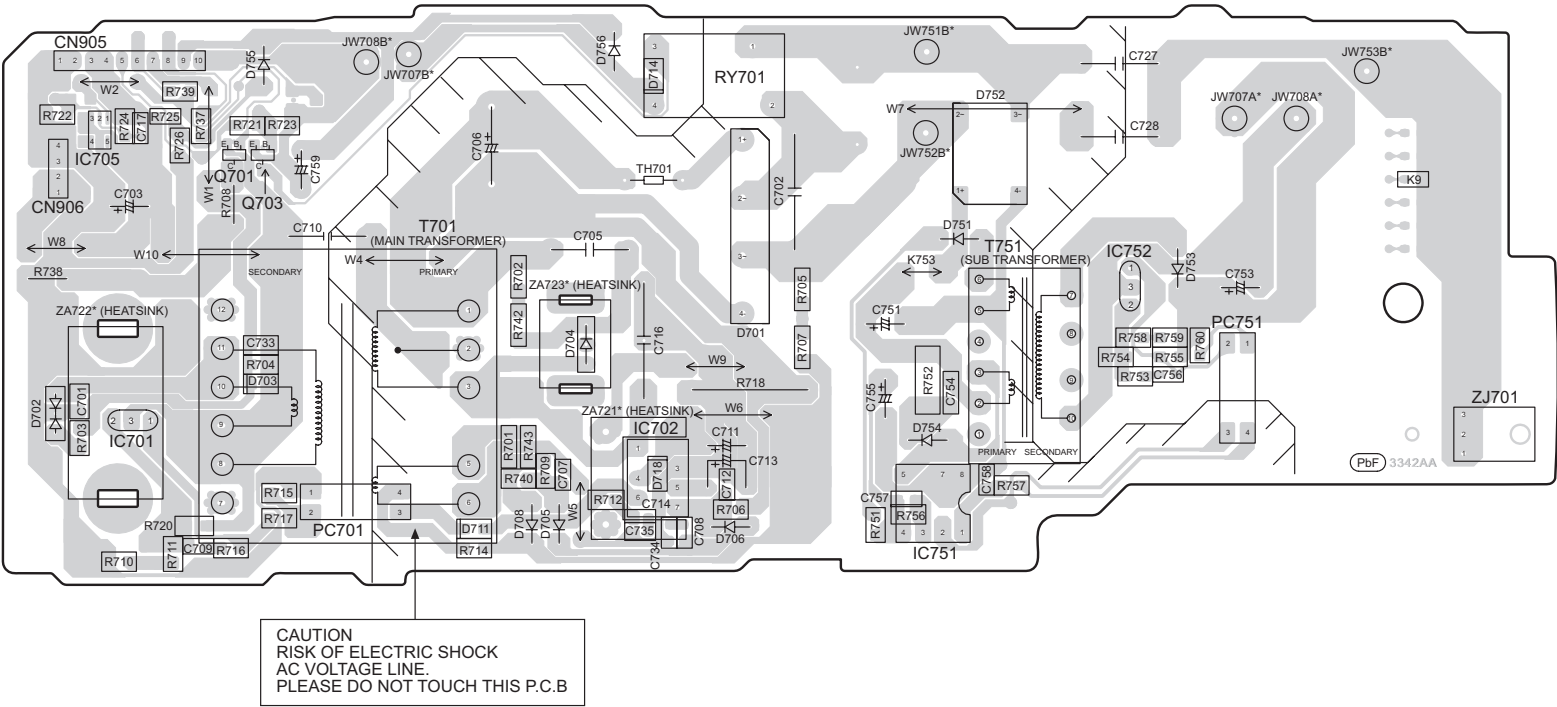




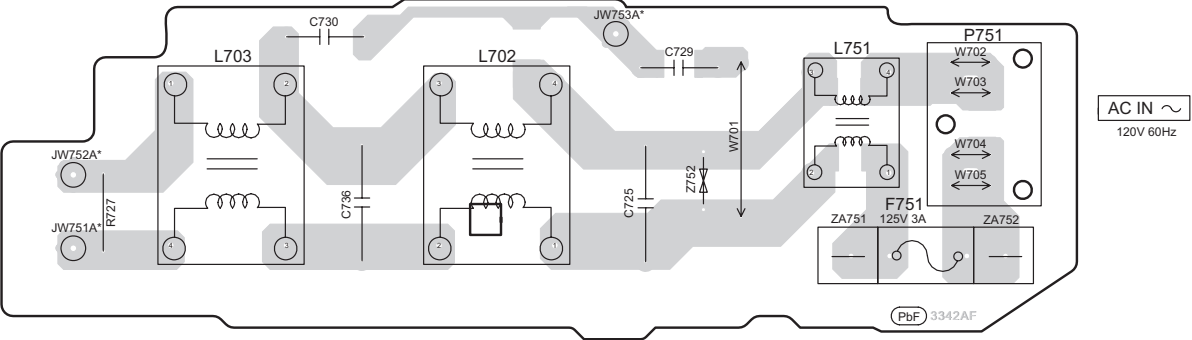
18.6. SMPS P.C.B. and AC IN P.C.B.

H  
G  
F  
E  
D  
C  
B  
A

**N** SMPS P.C.B. (REPX0755G)



**O** AC IN P.C.B. (REPX0755G)



NOTE: " \* " REF IS FOR INDICATION ONLY

SC-HC3P/PC  
SMPS/ AC IN P.C.B.



# 19 Terminal Function of IC's

## 19.1. IC801 (RFKWMABC3-S) MICRO PROCESSOR IC

| Pin No. | Mark           | I/O | Function                       |
|---------|----------------|-----|--------------------------------|
| 1       | PCONT_POW      | O   | Power Control                  |
| 2       | NC             | -   | No connection                  |
| 3       | FL_CE          | O   | FL Display Chip Enable         |
| 4       | OCD_SDA        | O   | On Chip Debugger Data          |
| 5       | NC             | -   | No connection                  |
| 6       | OCD_SCK        | O   | On Chip Debugger Clock         |
| 7       | NC             | -   | No connection                  |
| 8       | PCONT_iPod     | I/O | iPod POWER CONTROL             |
| 9       | NC             | -   | No connection                  |
| 10      | NC             | -   | No connection                  |
| 11      | MM0D0/GND      | I   | Ground                         |
| 12      | OSC2(OUT)      | O   | Main Oscillator output         |
| 13      | OSC1(IN)       | I   | Main Oscillator input          |
| 14      | VSS            | -   | Ground                         |
| 15      | XI             | I   | Slow Oscillator I/P            |
| 16      | XO             | O   | Slow Oscillator O/P            |
| 17      | VDD33          | -   | 3.3V Voltage Supply            |
| 18      | VDD18          | -   | 1.8V Votage Supply             |
| 19      | NRST           | I   | Micro-P Reset                  |
| 20      | USB_IRQ        | -   | No connection                  |
| 21      | MMOD           | -   | No connection                  |
| 22      | TERR(NO USB=L) | -   | No connection                  |
| 23      | VERR           | -   | No connection                  |
| 24      | USB_RST        | -   | No connection                  |
| 25      | REM_IN         | I   | Remote Control Input           |
| 26      | iPod DOCK OPEN | I   | iPod Docking Open Detect       |
| 27      | D_DOWFIC       | -   | No connection                  |
| 28      | NC             | -   | No connection                  |
| 29      | CD_BLKCK       | I   | CD Subcode Block Clock Input   |
| 30      | NC             | -   | No connection                  |
| 31      | FL_DI          | O   | FL Data I/P                    |
| 32      | NC             | -   | No connection                  |
| 33      | FL_CLK         | O   | FL Clock O/P                   |
| 34      | CD_MDATA       | O   | CD LSI Command Data            |
| 35      | CD_STATUS      | I   | CD LSI Status Input            |
| 36      | CD_MCLK        | O   | CD LSI Command Clock           |
| 37      | VDD18          | -   | 1.8V Votage Supply             |
| 38      | MUTE_F(DAMP)   | O   | D-AMP Muting Control           |
| 39      | VSS            | -   | Ground                         |
| 40      | ASP_CLK        | I/O | ASPC Clock                     |
| 41      | ASP_DATA       | O   | ASPC Data                      |
| 42      | CD_MLD         | O   | CD LSI Command Load            |
| 43      | REST_SW        | O   | CD Rest Switch                 |
| 44      | CD_RESET       | O   | CD Reset                       |
| 45      | MUTE_A         | O   | Audio muting                   |
| 46      | POS_SW_L       | I   | Position Switch Left Control   |
| 47      | POS_SW_CEN     | I   | Position Switch Center Control |
| 48      | POS_SW_R       | I   | Position Switch Right Control  |
| 49      | NC             | -   | No connection                  |
| 50      | NC             | -   | No connection                  |
| 51      | NC             | -   | No connection                  |
| 52      | MPORT_SW       | O   | Music Port Switch              |
| 53      | HP_SW          | O   | Headphone Switch               |
| 54      | SMPS_BP        | O   | SMPS Beatproof                 |
| 55      | DAMP_BP        | O   | D-AMP Beatproof                |
| 56      | iPod_FAN_SIG   | O   | iPod Fan Signal                |
| 57      | iPod_FAN_CNT R | O   | iPod Fan Control               |
| 58      | PWR_LED_CNT R  | O   | Power Led Control              |

| Pin No. | Mark             | I/O | Function                                      |
|---------|------------------|-----|-----------------------------------------------|
| 59      | CP_NRST          | -   | No connection                                 |
| 60      | CO_SDA           | -   | No connection                                 |
| 61      | CP_SCL           | -   | No connection                                 |
| 62      | CRTIMER          | I   | CR Timer                                      |
| 63      | VSS              | -   | GND                                           |
| 64      | NC               | -   | No connection                                 |
| 65      | LID_LEFT         | O   | CD LID Left                                   |
| 66      | LID_RIGHT        | O   | CD LID Right                                  |
| 67      | D_NRST           | -   | No connection                                 |
| 68      | D_NRFRST         | -   | No connection                                 |
| 69      | D_PLLSCL         | -   | No connection                                 |
| 70      | D_PLLSDA         | -   | No connection                                 |
| 71      | DAB_PON          | -   | No connection                                 |
| 72      | D_MPURX          | -   | No connection                                 |
| 73      | D_MPUTX/RDS_DO   | -   | No connection                                 |
| 74      | D_MPUCLK/RDS_CLK | -   | No connection                                 |
| 75      | D_MPUMOD         | -   | No connection                                 |
| 76      | UART_IN(iPod)    | O   | Serial UART I/P Communication (iPod)          |
| 77      | UART_OUT(iPod)   | I   | Serial UART O/P Communication (iPod)          |
| 78      | TU_ST            | I   | Tuner Stereo Signal                           |
| 79      | TU_SDA           | O   | IIC Serial Data for Tuner (PLL Data I/O)      |
| 80      | iPod_DET         | I   | iPod detection. (Output L if NO iPod)         |
| 81      | TU_SCLK          | O   | IIC Serial Clock for Tuner (PLL Clock Output) |
| 82      | USB_SDATA        | -   | No connection                                 |
| 83      | NC               | -   | No connection                                 |
| 84      | USB_CLK          | -   | No connection                                 |
| 85      | TU_SD            | I   | Tuner Stereo Detect                           |
| 86      | MAINV_DET        | O   | Main Supply Voltage Detect                    |
| 87      | NC               | -   | No connection                                 |
| 88      | iPod_ACC3.3      | -   | 3.3V Voltage Supply (For iPod)                |
| 89      | VDD              | -   | Micro-P +5V Voltage Supply                    |
| 90      | DEMO ON/OFF      | I   | Demo Setting                                  |
| 91      | VSS              | -   | GND                                           |
| 92      | KEY1             | I   | Key 1 input                                   |
| 93      | TEMP_DET         | I   | Temperature Detec                             |
| 94      | KEY2             | I   | Key 2 Input                                   |
| 95      | PDET2(DAMP)      | I   | Power Detect 2 (For D-AMP)                    |
| 96      | PDET1(REG)       | I   | Power Detect 1                                |
| 97      | REGION           | I   | Region Setting                                |
| 98      | iPod_PDET        | I   | iPod Power Detect                             |
| 99      | NC               | -   | No connection                                 |
| 100     | VREF+            | -   | 3.3V Reference Voltage                        |



## 19.2. IC7001 (MN6627954AMA) IC SERVO PROCESSOR

| Pin No. | Mark      | I/O | Function                                                  |
|---------|-----------|-----|-----------------------------------------------------------|
| 1       | A9        | O   | DRAM address signal O/P 9                                 |
| 2       | A11       | O   | DRAM address signal O/P 11                                |
| 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      | PRAMVDD33 | -   | Power Supply Voltage (+1.6V)                              |
| 20      | PRAMVDD15 | -   | Power Supply Voltage (DRAM)                               |
| 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      | IODD2     | -   | Digital Power Supply Voltage 2 (I/O)                      |
| 28      | DVDD1     | -   | Digital Power Supply Voltage 1 (Built-In)                 |
| 29      | SRVMON0   | -   | No Connection                                             |
| 30      | SRVMON1   | -   | No Connection                                             |
| 31      | AVSS2     | -   | GND                                                       |
| 32      | OSCIN     | I   | 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      | DSLIF     | I   | Loop Filter Terminal (For DSL)                            |
| 53      | IREF      | -   | Reference I/P                                             |
| 54      | PLLIF     | -   | PLL Loop Filter Terminal (Phase Compare)                  |
| 55      | PLLFO     | -   | PLL Loop Filter Terminal (Speed Compare)                  |
| 56      | OUTL      | O   | Audio O/P (LCH)                                           |
| 57      | AVSS1     | -   | GND                                                       |

| Pin No. | Mark                  | I/O | Function                                 |
|---------|-----------------------|-----|------------------------------------------|
| 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 / SRDATA (ST_IN) | -   | Expansion O/P Port 0                     |
| 63      | EXT1 / LRCK (ST_REQ)  | -   | Expansion O/P Port 1                     |
| 64      | EXT2 / BCLK (ST_CLK)  | -   | 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      | IODD1                 | -   | Digital Power Supply Voltage 1 (For I/O) |
| 78      | DVSS2                 | -   | GND2 (For Digital Circuit)               |
| 79      | NTEST2                | I   | 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                         |



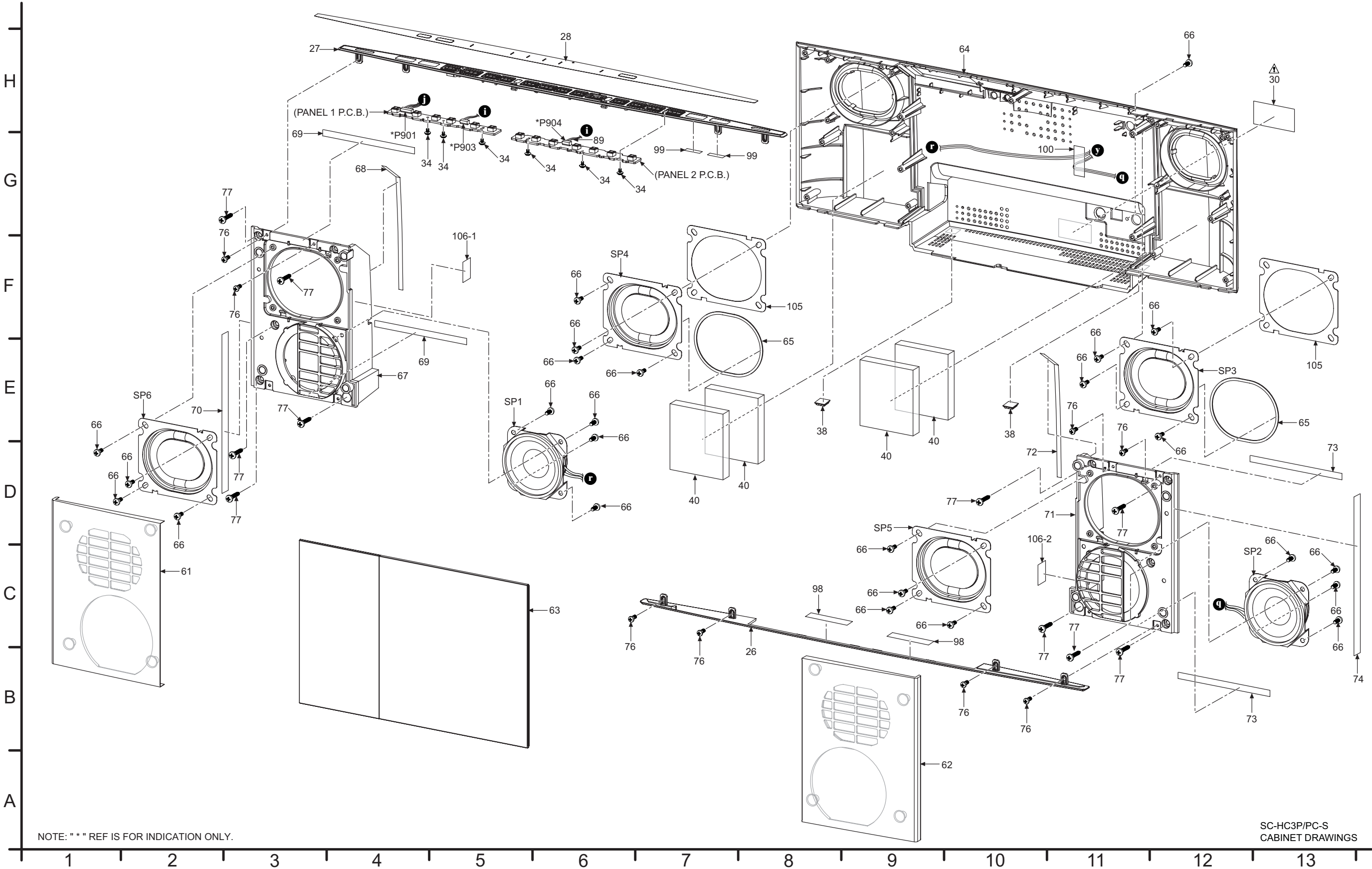
### 19.3. IC7002 (BA5948FPE2) IC 4CH Drive

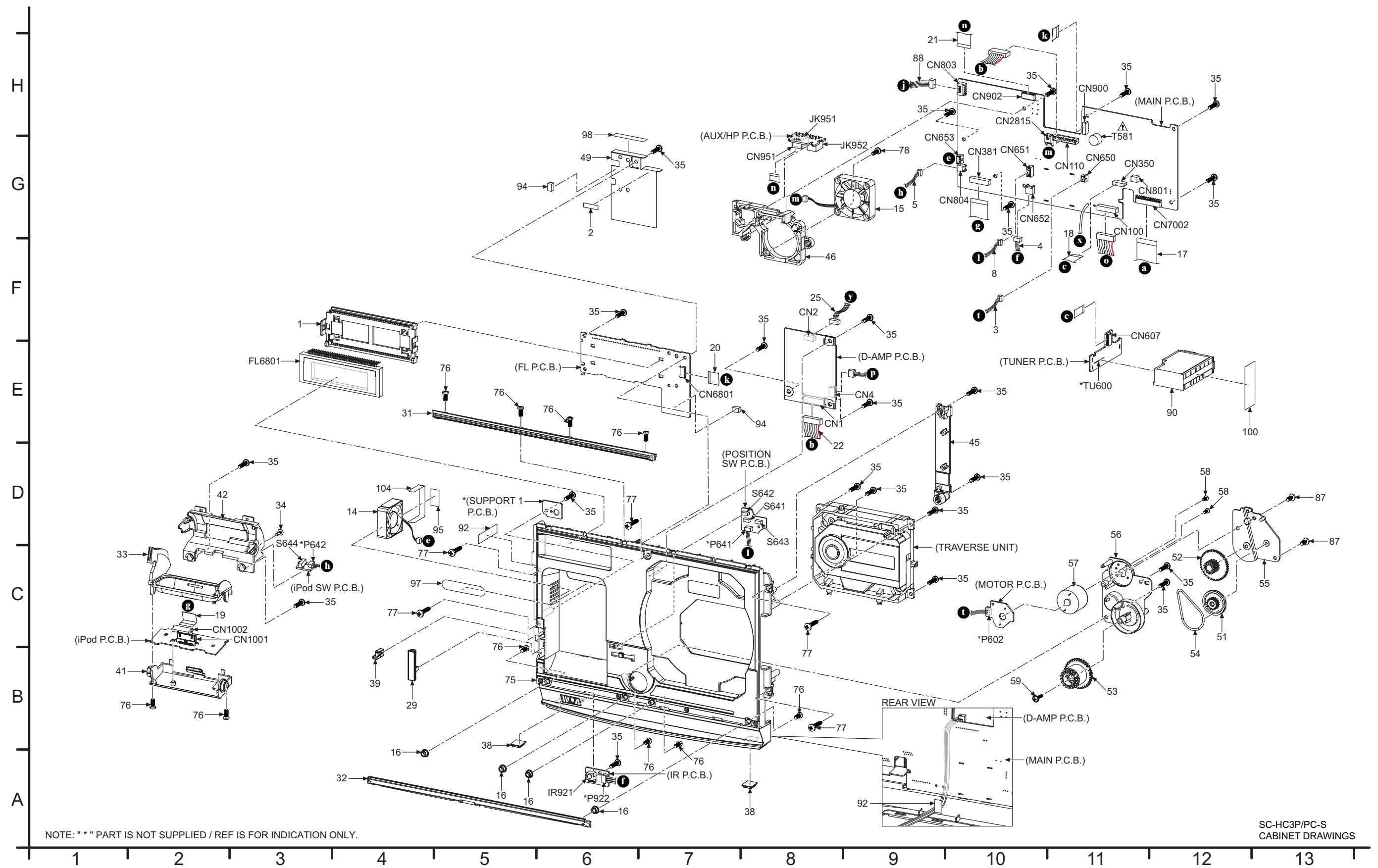
| Pin No. | Mark  | I/O | Function                                |
|---------|-------|-----|-----------------------------------------|
| 1       | IN2   | I   | Motor Driver Input                      |
| 2       | PC2   | I   | Turntable Motor Drive Signal (L:ON)     |
| 3       | IN1   | I   | Motor 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 |
| 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   | I   | Power Supply terminal                   |
| 26      | VREF  | I   | Reference Voltage Input                 |
| 27      | IN4   | I   | Motor Driver (4) Input                  |
| 28      | IN3   | I   | Motor Driver (3) Input                  |

20 Exploded View and Replacement Parts List

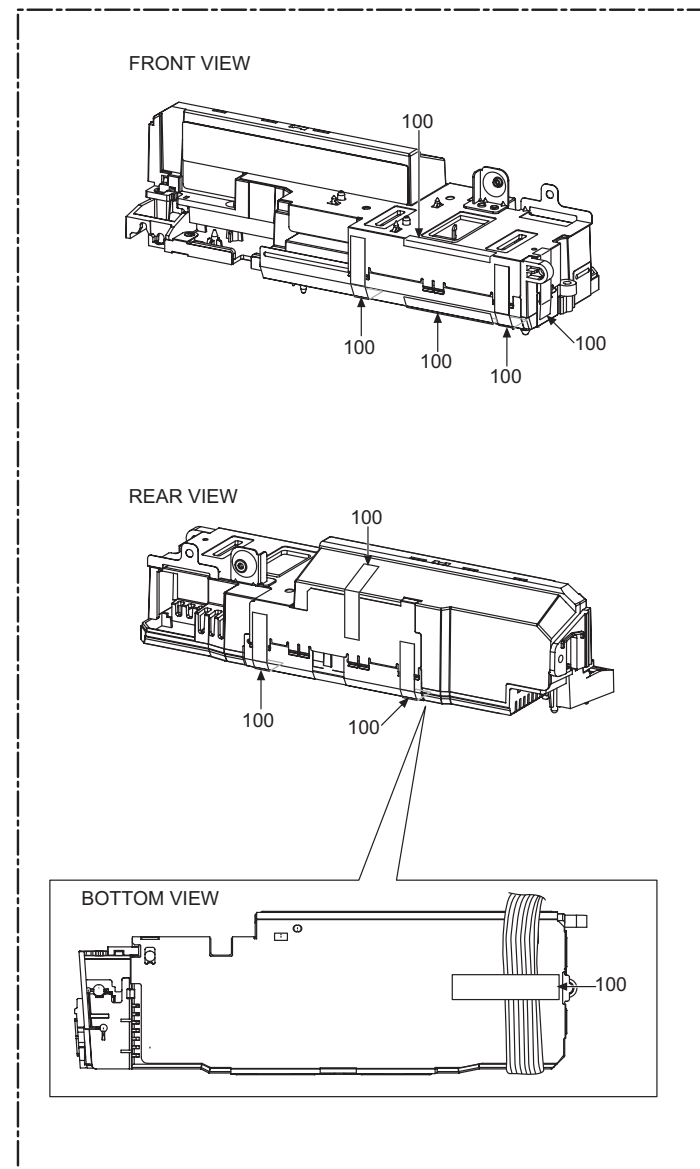
20.1. Exploded View and Mechanical replacement Parts List

20.1.1. Cabinet Parts Location

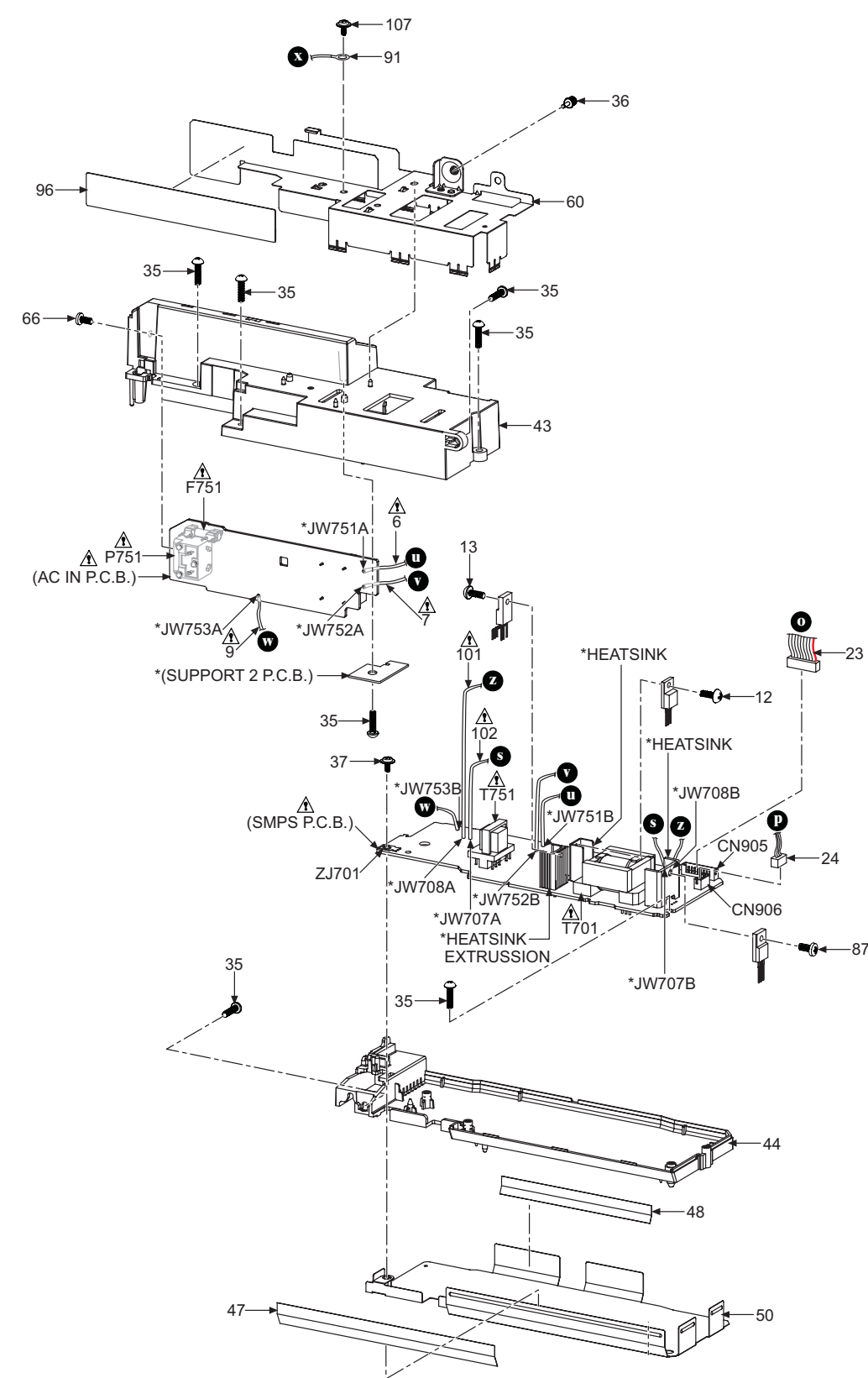




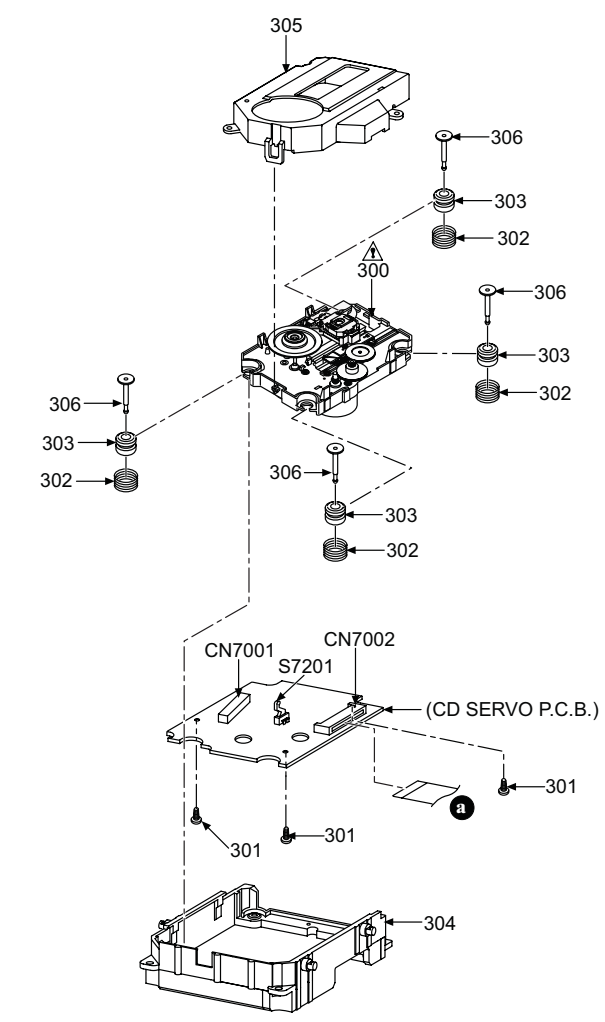
H  
G  
F  
E  
D  
C  
B  
A



NOTE: "\*" PART IS NOT SUPPLIED / REF IS FOR INDICATION ONLY.

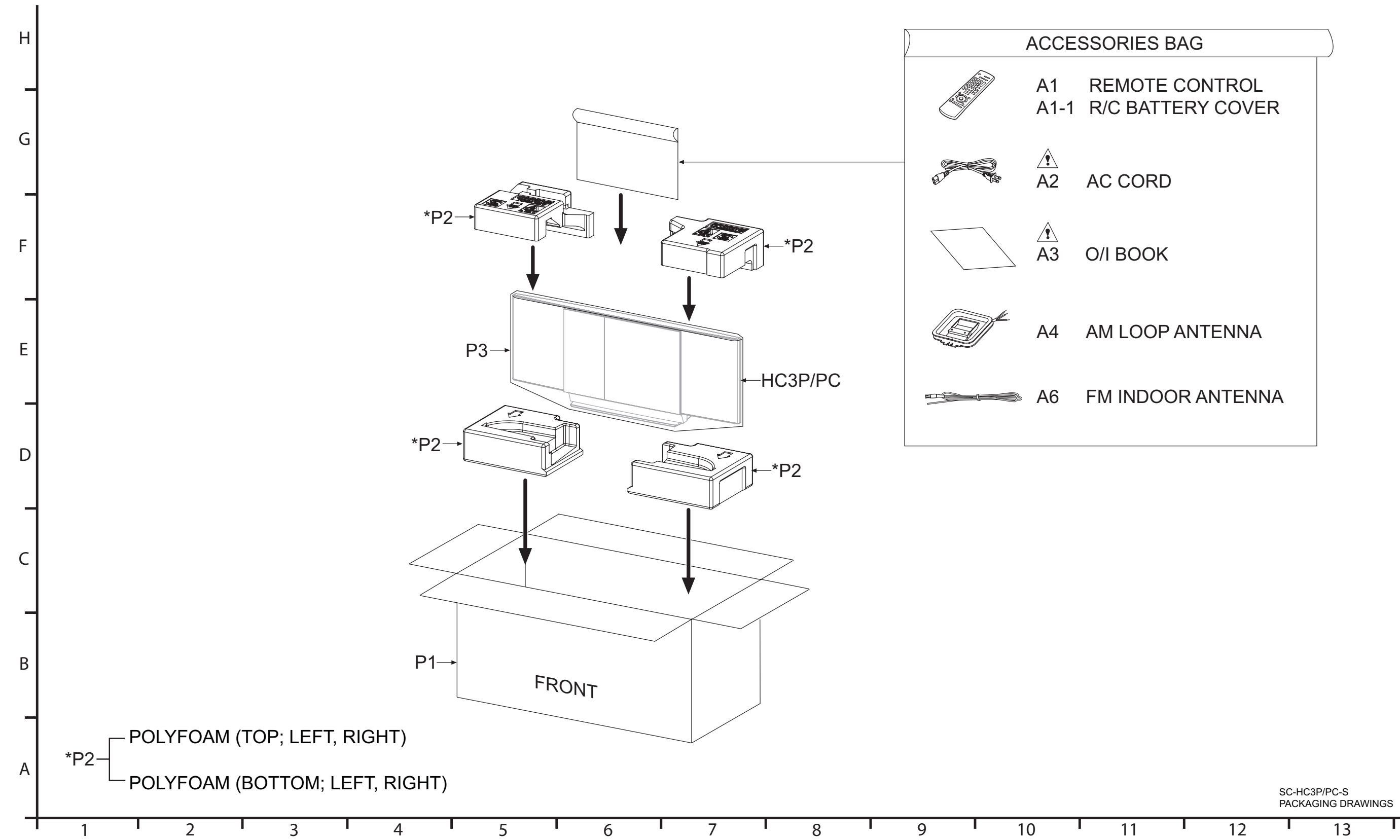


TRAVERSE UNIT



SC-HC3P/PC-S  
CABINET/TRAVERSE UNIT DRAWINGS

20.1.2. Packaging



## 20.1.3. Mechanical Replacement Parts List

### Important Safety Notice

Components identified by  mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

#### RTL (Retention Time Limited)

**Note:** The marking (RTL) indicates that the Retention Time is Limited for this item.

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 availability is dependant 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.

#### Note:

- When replacing any of these components, be sure to use only manufacturer's specified parts shown in the replacement part list.
- The parenthesized indications on the Remarks column specify the destination & product color (Refer to the cover page for the information).
- Parts without these indications shall be used for all areas.
- This product uses a laser diode. Refer to "Precaution of Laser Diode".
- All parts mentioned are supplied by PAVCSG unless indicated likewise.
- Parts mentioned [SPG] in the Remarks column are supplied by PAVC-CSG.
- Reference for O/I book languages are as follows:

|     |                 |     |         |     |            |     |                     |
|-----|-----------------|-----|---------|-----|------------|-----|---------------------|
| Ar: | Arabic          | Du: | Dutch   | It: | Italian    | Sp: | Spanish             |
| Cf: | Canadian French | En: | English | Ko: | Korean     | S:  | 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 |     |                     |

| Safety                                                                            | Ref. No. | Part No.     | Part Name & Description    | Qty | Remarks |
|-----------------------------------------------------------------------------------|----------|--------------|----------------------------|-----|---------|
|                                                                                   |          |              | CABINET AND CHASSIS        |     |         |
|                                                                                   | 1        | RMNX0307     | FL HOLDER                  | 1   |         |
|                                                                                   | 2        | RMFX0103     | HIMELON                    | 1   |         |
|                                                                                   | 3        | REXX0739     | 2P WIRE (MOTOR-MAIN)       | 1   |         |
|                                                                                   | 4        | REXX0740     | 3P WIRE (IR-MAIN)          | 1   |         |
|                                                                                   | 5        | REXX0743     | 2P WIRE (iPod-SW-MAIN)     | 1   |         |
|  | 6        | REXX0746-1   | RED WIRE (AC INLET-SMPS)   | 1   |         |
|  | 7        | REXX0747-1   | BLACK WIRE (AC INLET-SMPS) | 1   |         |
|                                                                                   | 8        | REXX0748     | 4P WIRE (POSW-MAIN)        | 1   |         |
|  | 9        | REXX0752-1   | BLUE WIRE (AC INLET-SMPS)  | 1   |         |
|                                                                                   | 12       | XTV3+6FFJ    | SCREW                      | 1   |         |
|                                                                                   | 13       | XTV3+8FFJ    | SCREW                      | 1   |         |
|                                                                                   | 14       | L6FAGA9G0001 | FAN UNIT (iPod)            | 1   |         |
|                                                                                   | 15       | L6FAHAKH0001 | FAN UNIT                   | 1   |         |
|                                                                                   | 16       | RDPV0001     | LID ROLLER                 | 4   |         |
|                                                                                   | 17       | REEX0983-1   | 25P FFC (MAIN-TRV)         | 1   |         |
|                                                                                   | 18       | REEX0984-1   | 10P FFC (TUNER-MAIN)       | 1   |         |
|                                                                                   | 19       | REEX0985-1   | 14P FFC (iPod-MAIN)        | 1   |         |
|                                                                                   | 20       | REEX1001     | 9P FFC (FL-MAIN)           | 1   |         |
|                                                                                   | 21       | REEX1002     | 8P FFC (AUX-MAIN)          | 1   |         |

| Safety                                                                              | Ref. No. | Part No.     | Part Name & Description | Qty | Remarks |
|-------------------------------------------------------------------------------------|----------|--------------|-------------------------|-----|---------|
|                                                                                     | 22       | REXX0736     | 12P WIRE (DAMP-MAIN)    | 1   |         |
|                                                                                     | 23       | REXX0737     | 10P WIRE (SMPS-MAIN)    | 1   |         |
|                                                                                     | 24       | REXX0744     | 4P WIRE (DAMP-SMPS)     | 1   |         |
|                                                                                     | 25       | REXX0745-2   | 4P WIRE (SPEAKER-DAMP)  | 1   |         |
|                                                                                     | 26       | RGKX0526-S1  | BOTTOM ORNAMENT         | 1   |         |
|                                                                                     | 27       | RGKX0527-S2  | TOP ORNAMENT            | 1   |         |
|                                                                                     | 28       | RGKX0528E-S  | TOUCH PANEL             | 1   |         |
|                                                                                     | 29       | RGKX0529-K   | PUSH LEVER              | 1   |         |
|  | 30       | RGNX0850C-1  | NAME PLATE              | 1   | PC      |
|  | 30       | RGNX0850H-1  | NAME PLATE              | 1   | P       |
|                                                                                     | 31       | RGFX0379-K2  | GUIDE REEL A            | 1   |         |
|                                                                                     | 32       | RGFX0380-K2  | GUIDE REEL B            | 1   |         |
|                                                                                     | 33       | RGFX0383-K2  | DOCKING TUB             | 1   |         |
|                                                                                     | 34       | RHD14136     | SCREW                   | 7   |         |
|                                                                                     | 35       | RHD26046     | SCREW                   | 30  |         |
|                                                                                     | 36       | RHD30070     | SCREW                   | 1   |         |
|                                                                                     | 37       | RHD30090-1   | SCREW                   | 1   |         |
|                                                                                     | 38       | RKAX0028-K   | LEG CUSHION             | 4   |         |
|                                                                                     | 39       | RHGX0003     | MINI SIDE LOCK          | 1   |         |
|                                                                                     | 40       | RMFX0091     | ACOUSTIC ABSORBER       | 4   |         |
|                                                                                     | 41       | RMKX0157-K1  | DOCKING COVER           | 1   |         |
|                                                                                     | 42       | RMKX0158-K1  | DOCKING HOLDER          | 1   |         |
|                                                                                     | 43       | RMNX0308A-K1 | SMPS BARRIER A          | 1   |         |
|                                                                                     | 44       | RMNX0309A-K  | SMPS BARRIER B          | 1   |         |
|                                                                                     | 45       | RMNX0310     | PCB HOLDER              | 1   |         |
|                                                                                     | 46       | RMNX0317-2   | FAN HOLDER              | 1   |         |
|                                                                                     | 47       | RMNX0320     | SMPS INSULATOR A        | 1   |         |
|                                                                                     | 48       | RMNX0321     | SMPS INSULATOR B        | 1   |         |
|                                                                                     | 49       | RMNX0322-1   | DAMP INSULATOR          | 1   |         |

| Safety | Ref. No. | Part No.     | Part Name & Description   | Qty | Remarks |
|--------|----------|--------------|---------------------------|-----|---------|
|        | 50       | RSCX0210-1   | SMPS SHIELD B             | 1   |         |
|        | 51       | RDG0546      | BELT PULLEY               | 1   |         |
|        | 52       | RDGX0050     | MIDDLE GEAR               | 1   |         |
|        | 53       | RDGX0051     | DRIVE DEAR                | 1   |         |
|        | 54       | RDVX0001     | BELT                      | 1   |         |
|        | 55       | RMKX0159-1   | GEAR FIXTURE              | 1   |         |
|        | 56       | RMKX0160-1   | GEAR BASE                 | 1   |         |
|        | 57       | RXQ1690      | MOTOR ASS'Y (MT602)       | 1   |         |
|        | 58       | XSN2+4FJ     | SCREW                     | 2   |         |
|        | 59       | XTW3+16TFJK  | SCREW                     | 1   |         |
|        | 60       | RXQX0109-1   | SMPS SHIELD A ASS'Y       | 1   |         |
|        | 61       | RYBX0197-H1  | NET FRAME ASS'Y (L)       | 1   |         |
|        | 62       | RYBX0198-H1  | NET FRAME ASS'Y R         | 1   |         |
|        | 63       | RYPX0405D-S1 | CD DOOR UNIT              | 1   |         |
|        | 64       | RGFX0385J-K1 | REAR CABINET              | 1   |         |
|        | 65       | RMQX0361     | EVA PACKING PASSIVE REAR  | 2   |         |
|        | 66       | XTB3+8JFJK   | SCREW                     | 26  |         |
|        | 67       | RGFX0381-K2  | SPEAKER FRONT CABINET (L) | 1   |         |
|        | 68       | RMQX0356     | EVA PACKING (BARRIER L)   | 1   |         |
|        | 69       | RMQX0357     | EVA PACKING (FRAME-L)     | 2   |         |
|        | 70       | RMQX0358     | EVA PACKING (FRAME A-L)   | 1   |         |
|        | 71       | RGFX0382-K2  | SPEAKER FRONT CABINET (R) | 1   |         |
|        | 72       | RMQX0356     | EVA PACKING (BARRIER R)   | 1   |         |
|        | 73       | RMQX0357     | EVA PACKING FRAME R       | 2   |         |
|        | 74       | RMQX0358     | EVA PACKING FRAME A-R     | 1   |         |
|        | 75       | RYPX0411-K   | FRONT CABINET ASS'Y       | 1   |         |
|        | 76       | XTB2+6GFJK   | SCREW                     | 18  |         |
|        | 77       | XTB3+12JFJK  | SCREW                     | 15  |         |
|        | 78       | XTB3+16JFJ   | SCREW                     | 1   |         |
|        | 87       | XTB3+8JFJ    | SCREW                     | 3   |         |
|        | 88       | REXX0738     | 5P WIRE (MAIN-PANEL 1)    | 1   |         |
|        | 89       | REXX0741     | 3P WIRE (PANEL 2-PANEL 1) | 1   |         |
|        | 90       | J3CCBB000010 | TUNER PACK                | 1   |         |
|        | 91       | REXX0774     | 1P WIRE (MAIN-SMPS)       | 1   |         |
|        | 92       | RMFX0098     | HIMELON                   | 2   |         |
|        | 94       | RMQX0376     | CUSHION SHEET             | 2   |         |
|        | 95       | RMFX0099     | HIMELON                   | 1   |         |
|        | 96       | RMNX0323-1   | SMPS INSULATOR C          | 1   |         |
|        | 97       | RMQX0372-1   | iPod CUSHION              | 1   |         |
|        | 98       | RMFX0097     | HIMELON                   | 3   |         |
|        | 99       | RMQX0373     | CUSHION PANEL P.C.B.      | 2   |         |
|        | 100      | RMF0416      | HIMELON                   | 11  |         |
| △      | 101      | REXX0771     | WHITE WIRE (JW708)        | 1   |         |
| △      | 102      | REXX0772     | BROWN WIRE (JW707)        | 1   |         |
|        | 104      | RSCX0218     | SILICON PLATE             | 1   |         |
|        | 105      | RMQX0362     | EVA PACKING PASSIVE FRONT | 2   |         |
|        | 106      | RMQX0379     | SPACER                    | 2   |         |
|        | 107      | RHD30092-1   | SCREW                     | 1   |         |
|        |          |              | TRAVERSE DECK             |     |         |
| △      | 300      | RAE0165T-V   | TRAVERSE ASS'Y            | 1   | (RTL)   |
|        | 301      | XTN2+6GFJ    | SCREW                     | 3   |         |
|        | 302      | RME0109-1    | FLOATING SPRING           | 4   |         |
|        | 303      | RMG0730-G    | FLOATING RUBBER           | 4   |         |
|        | 304      | RMR1395-X    | MIDDLE CHASSIS            | 1   |         |

| Safety | Ref. No. | Part No.     | Part Name & Description | Qty | Remarks |
|--------|----------|--------------|-------------------------|-----|---------|
|        | 305      | RMR1396-K    | TRAVERSE COVER          | 1   |         |
|        | 306      | RMS0757-1    | FIXED PIN               | 4   |         |
|        |          |              | SPEAKERS                |     |         |
|        | SP1      | EAS65P144A   | FRONT SPEAKER           | 1   |         |
|        | SP2      | EAS65P144A   | FRONT SPEAKER           | 1   |         |
|        | SP3      | EAS8DY01B    | PASSIVE RADIATOR        | 1   |         |
|        | SP4      | EAS8DY01B    | PASSIVE RADIATOR        | 1   |         |
|        | SP5      | EAS8DY01B    | PASSIVE RADIATOR        | 1   |         |
|        | SP6      | EAS8DY01B    | PASSIVE RADIATOR        | 1   |         |
|        |          |              | PACKING MATERIALS       |     |         |
|        | P1       | RPGX2168     | PACKING CASE            | 1   | P       |
|        | P1       | RPGX2169     | PACKING CASE            | 1   | PC      |
|        | P2       | RPNX0614     | POLYFOAM                | 1   |         |
|        | P3       | RPF00262     | MIRAMAT BAG             | 1   |         |
|        |          |              | ACCESSORIES             |     |         |
|        | A1       | N2QAYB000394 | REMOTE CONTROL          | 1   |         |
|        | A1-1     | RKK-PT470EBK | R/C BATTERY COVER       | 1   |         |
| △      | A2       | K2CB2CB00021 | AC CORD                 | 1   |         |
| △      | A3       | RQTX0250-1P  | O/I BOOK (En)           | 1   |         |
| △      | A3       | RQTX0251-1C  | O/I BOOK (Cf)           | 1   | PC      |
| △      | A3       | RQTX0254-1M  | O/I BOOK (Sp)           | 1   | P       |
|        | A4       | RSAX0002     | FM INDOOR ANTENNA       | 1   |         |
|        | A6       | N1DAAA00002  | AM LOOP ANTENNA         | 1   |         |



## 20.2. Electrical Replacement Parts List

### Important Safety Notice

Components identified by  mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

#### RTL (Retention Time Limited)

**Note:** The marking (RTL) indicates that the Retention Time is Limited for this item.

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 availability is dependant 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.

**Note:**

- When replacing any of these components, be sure to use only manufacturer's specified parts shown in the replacement part list.
- The parenthesized indications on the Remarks column specify the destination & product color (Refer to the cover page for the information).
- Parts without these indications shall be used for all areas.
- This product uses a laser diode. Refer to "Precaution of Laser Diode".
- Capacitor value are in microfarads (uF) unless specified otherwise, P=Pico-farads (pF), F=Farads.
- Resistance values are in ohms, unless specified otherwise, 1K=1000 (OHM).
- All parts mentioned are supplied by PAVCSG unless indicated likewise.
- Parts mentioned [SPG] in the Remarks column are supplied by PAVC-CSG.

| Safety                                                                             | Ref. No. | Part No.     | Part Name & Description | Qty | Remarks |
|------------------------------------------------------------------------------------|----------|--------------|-------------------------|-----|---------|
|                                                                                    |          |              | PRINTED CIRCUIT BOARDS  |     |         |
|                                                                                    |          |              |                         |     |         |
|                                                                                    | PCB1     | REPX0631A    | iPod P.C.B.             | 1   | (RTL)   |
|                                                                                    | PCB2     | REPX0723A    | CD SERVO P.C.B.         | 1   | (RTL)   |
|                                                                                    | PCB3     | REPX0753A    | D-AMP P.C.B.            | 1   | (RTL)   |
|                                                                                    | PCB4     | REPX0754G    | MAIN P.C.B.             | 1   | (RTL)   |
|  | PCB5     | REPX0755G    | SMPS P.C.B.             | 1   | (RTL)   |
|                                                                                    | PCB6     | REPX0755G    | TUNER P.C.B.            | 1   | (RTL)   |
|                                                                                    | PCB7     | REPX0755G    | FL P.C.B.               | 1   | (RTL)   |
|                                                                                    | PCB8     | REPX0754G    | PANEL 1 P.C.B.          | 1   | (RTL)   |
|                                                                                    | PCB9     | REPX0754G    | PANEL 2 P.C.B.          | 1   | (RTL)   |
|                                                                                    | PCB10    | REPX0754G    | AUX/HP P.C.B.           | 1   | (RTL)   |
|                                                                                    | PCB11    | REPX0755G    | IR P.C.B.               | 1   | (RTL)   |
|                                                                                    | PCB12    | REPX0755G    | MOTOR P.C.B.            | 1   | (RTL)   |
|                                                                                    | PCB13    | REPX0755G    | POSITION SW P.C.B.      | 1   | (RTL)   |
|                                                                                    | PCB14    | REPX0755G    | iPod SW P.C.B.          | 1   | (RTL)   |
|  | PCB15    | REPX0755G    | AC IN P.C.B.            | 1   | (RTL)   |
|                                                                                    |          |              |                         |     |         |
|                                                                                    |          |              | INTEGRATED CIRCUITS     |     |         |
|                                                                                    |          |              |                         |     |         |
|                                                                                    | IC1      | C1AB00003012 | IC                      | 1   |         |
|                                                                                    | IC101    | C1AB00003013 | IC                      | 1   |         |
|                                                                                    | IC102    | C0ABBB000230 | IC                      | 1   |         |
|                                                                                    | IC103    | C0AABB000085 | IC                      | 1   |         |
|                                                                                    | IC503    | C0CBCBC00090 | IC                      | 1   |         |
|                                                                                    | IC504    | C0DBAYH00005 | IC                      | 1   |         |
|                                                                                    | IC505    | C0DBAYH00005 | IC                      | 1   |         |
|                                                                                    | IC551    | B0ADCJ000020 | IC                      | 1   |         |
|                                                                                    | IC650    | C0GAEE000007 | IC                      | 1   |         |
|                                                                                    | IC701    | C0DAEMZ00001 | IC                      | 1   |         |
|                                                                                    | IC702    | C0DAAMH00013 | IC                      | 1   |         |
|                                                                                    | IC705    | C0EBJ0000336 | IC                      | 1   |         |

| Safety | Ref. No. | Part No.     | Part Name & Description | Qty | Remarks |
|--------|----------|--------------|-------------------------|-----|---------|
|        | IC751    | MIP2F20MSSCF | IC                      | 1   |         |
|        | IC752    | C0DAEMZ00001 | IC                      | 1   |         |
|        | IC801    | RFKWMAHC3-S  | IC                      | 1   |         |
|        | IC802    | C0CBCBD00008 | IC                      | 1   |         |
|        | IC803    | C0EBE0000482 | IC                      | 1   |         |
|        | IC6801   | C0HBB0000057 | IC                      | 1   |         |
|        | IC7001   | MN6627954AMA | IC                      | 1   |         |
|        | IC7002   | BA5948FPE2   | IC                      | 1   |         |
|        | IC7003   | C3ABMB000050 | IC                      | 1   |         |
|        |          |              |                         |     |         |
|        |          |              | TRANSISTORS             |     |         |
|        |          |              |                         |     |         |
|        | Q101     | B1ABCF000176 | TRANSISTOR              | 1   |         |
|        | Q102     | B1ABCF000176 | TRANSISTOR              | 1   |         |
|        | Q103     | B1ABCF000176 | TRANSISTOR              | 1   |         |
|        | Q104     | B1ABCF000176 | TRANSISTOR              | 1   |         |
|        | Q105     | B1ABCF000176 | TRANSISTOR              | 1   |         |
|        | Q251     | B1ABGC000005 | TRANSISTOR              | 1   |         |
|        | Q252     | B1ABGC000005 | TRANSISTOR              | 1   |         |
|        | Q253     | B1ABGC000005 | TRANSISTOR              | 1   |         |
|        | Q302     | B1ABDF000026 | TRANSISTOR              | 1   |         |
|        | Q382     | B1ADCE000012 | TRANSISTOR              | 1   |         |
|        | Q451     | B1ABGC000005 | TRANSISTOR              | 1   |         |
|        | Q452     | B1ABGC000005 | TRANSISTOR              | 1   |         |
|        | Q453     | B1ABGC000005 | TRANSISTOR              | 1   |         |
|        | Q509     | B1BAAJ000003 | TRANSISTOR              | 1   |         |
|        | Q511     | B1ABDF000026 | TRANSISTOR              | 1   |         |
|        | Q512     | B1ACND000003 | TRANSISTOR              | 1   |         |
|        | Q551     | B1ACKD000006 | TRANSISTOR              | 1   |         |
|        | Q552     | B1ABCF000176 | TRANSISTOR              | 1   |         |
|        | Q553     | B1ABCF000176 | TRANSISTOR              | 1   |         |
|        | Q581     | B1BABK000001 | TRANSISTOR              | 1   |         |
|        | Q582     | B1ADCE000012 | TRANSISTOR              | 1   |         |
|        | Q583     | B1ADCE000012 | TRANSISTOR              | 1   |         |
|        | Q701     | B1ABEC000010 | TRANSISTOR              | 1   |         |
|        | Q703     | B1ABCF000176 | TRANSISTOR              | 1   |         |
|        | Q7601    | B1ADCF000001 | TRANSISTOR              | 1   |         |
|        | QR1      | B1GBCFJJ0051 | TRANSISTOR              | 1   |         |



| Safety | Ref. No. | Part No.     | Part Name & Description | Qty | Remarks |
|--------|----------|--------------|-------------------------|-----|---------|
|        | QR2      | B1GBCFJJ0051 | TRANSISTOR              | 1   |         |
|        | QR3      | B1GBCFJJ0051 | TRANSISTOR              | 1   |         |
|        | QR4      | B1GBCFJJ0051 | TRANSISTOR              | 1   |         |
|        | QR101    | B1GDCFGG0026 | TRANSISTOR              | 1   |         |
|        | QR121    | UNR221300L   | TRANSISTOR              | 1   |         |
|        | QR384    | B1GBCFJJ0051 | TRANSISTOR              | 1   |         |
|        | QR514    | UNR521300L   | TRANSISTOR              | 1   |         |
|        | QR515    | UNR521300L   | TRANSISTOR              | 1   |         |
|        | QR554    | B1GBCFJJ0051 | TRANSISTOR              | 1   |         |
|        | QR804    | UNR511100L   | TRANSISTOR              | 1   |         |
|        | QR805    | UNR521100L   | TRANSISTOR              | 1   |         |
|        | QR806    | UNR521100L   | TRANSISTOR              | 1   |         |
|        |          |              |                         |     |         |
|        |          |              | DIODES                  |     |         |
|        |          |              |                         |     |         |
|        | D3       | B0JCME000035 | DIODE                   | 1   |         |
|        | D4       | B0JCME000035 | DIODE                   | 1   |         |
|        | D5       | B0JCME000035 | DIODE                   | 1   |         |
|        | D6       | B0JCME000035 | DIODE                   | 1   |         |
|        | D9       | MAZ8033G0L   | DIODE                   | 1   |         |
|        | D10      | MA2SD320GL   | DIODE                   | 1   |         |
|        | D11      | MA2SD320GL   | DIODE                   | 1   |         |
|        | D12      | MA2J1110GL   | DIODE                   | 1   |         |
|        | D13      | MA2J1110GL   | DIODE                   | 1   |         |
|        | D101     | MA2J11100L   | DIODE                   | 1   |         |
|        | D102     | MA2J11100L   | DIODE                   | 1   |         |
|        | D103     | MA2J72800L   | DIODE                   | 1   |         |
|        | D105     | MA2J11100L   | DIODE                   | 1   |         |
|        | D513     | MA2J11100L   | DIODE                   | 1   |         |
|        | D514     | MA2J11100L   | DIODE                   | 1   |         |
|        | D515     | B0BC7R5A0266 | DIODE                   | 1   |         |
|        | D516     | B0ACCK000005 | DIODE                   | 1   |         |
|        | D517     | MA2J11100L   | DIODE                   | 1   |         |
|        | D518     | B0BC6R100010 | DIODE                   | 1   |         |
|        | D519     | B0JCPD000043 | DIODE                   | 1   |         |
|        | D520     | B0JCPD000043 | DIODE                   | 1   |         |
|        | D521     | B0HCMM000019 | DIODE                   | 1   |         |
|        | D522     | B0HCMM000019 | DIODE                   | 1   |         |
|        | D523     | B0HCMM000019 | DIODE                   | 1   |         |
|        | D524     | B0HCMM000019 | DIODE                   | 1   |         |
|        | D551     | MA2J11100L   | DIODE                   | 1   |         |
|        | D552     | B0BC5R600003 | DIODE                   | 1   |         |
|        | D555     | MA2J1110GL   | DIODE                   | 1   |         |
|        | D581     | MAZ81800ML   | DIODE                   | 1   |         |
|        | D582     | MAZ81800ML   | DIODE                   | 1   |         |
|        | D583     | MAZ82700LL   | DIODE                   | 1   |         |
|        | D584     | MAZ80330LL   | DIODE                   | 1   |         |
|        | D585     | B0JCMD000010 | DIODE                   | 1   |         |
|        | D586     | B0JAME000029 | DIODE                   | 1   |         |
|        | D701     | B0EBNR000015 | DIODE                   | 1   |         |
|        | D702     | B0HBSM000052 | DIODE                   | 1   |         |
|        | D703     | MAZ80300LL   | DIODE                   | 1   |         |
|        | D704     | B0ZAZ0000052 | DIODE                   | 1   |         |
|        | D705     | B0HAJM000005 | DIODE                   | 1   |         |
|        | D706     | B0HAJM000005 | DIODE                   | 1   |         |
|        | D708     | B0HAJM000005 | DIODE                   | 1   |         |
|        | D711     | B0BC6R100010 | DIODE                   | 1   |         |
|        | D714     | MA2J11100L   | DIODE                   | 1   |         |
|        | D718     | MAZ83000ML   | DIODE                   | 1   |         |
|        | D751     | B0EAMM000057 | DIODE                   | 1   |         |
|        | D752     | B0EDKT000009 | DIODE                   | 1   |         |
|        | D753     | B0JAMF000011 | DIODE                   | 1   |         |
|        | D754     | B0HAMP000094 | DIODE                   | 1   |         |
|        | D755     | B0JAMF000011 | DIODE                   | 1   |         |
|        | D756     | B0JAMF000011 | DIODE                   | 1   |         |
|        | D851     | MA2J11100L   | DIODE                   | 1   |         |
|        | D852     | MA2J11100L   | DIODE                   | 1   |         |
|        | D853     | MA2J11100L   | DIODE                   | 1   |         |
|        | D854     | B0HCMM000019 | DIODE                   | 1   |         |
|        | D855     | B0HCMM000019 | DIODE                   | 1   |         |
|        | D856     | B0HCMM000019 | DIODE                   | 1   |         |
|        | D901     | B3AAB0000144 | DIODE                   | 1   |         |
|        | D7650    | MAZ80560ML   | DIODE                   | 1   |         |

| Safety | Ref. No. | Part No.     | Part Name & Description  | Qty | Remarks |
|--------|----------|--------------|--------------------------|-----|---------|
|        |          |              |                          |     |         |
|        |          |              | SWITCHES                 |     |         |
|        |          |              |                          |     |         |
|        | S641     | K0L1BA000078 | SW LEFT                  | 1   |         |
|        | S642     | K0L1BA000078 | SW CENTRE                | 1   |         |
|        | S643     | K0L1BA000078 | SW RIGHT                 | 1   |         |
|        | S644     | K0L1BA000078 | SW iPod OPEN             | 1   |         |
|        | S901     | EVQ11G04M    | SW POWER                 | 1   |         |
|        | S902     | EVQ11G04M    | SW iPod OPEN/<br>CLOSE   | 1   |         |
|        | S903     | EVQ11G04M    | SW iPod PLAY/<br>PAUSE   | 1   |         |
|        | S904     | EVQ11G04M    | SW FM/AM                 | 1   |         |
|        | S905     | EVQ11G04M    | SW AUX                   | 1   |         |
|        | S906     | EVQ11G04M    | SW CD PLAY/PAUSE         | 1   |         |
|        | S907     | EVQ11G04M    | SW CD OPEN/CLOSE         | 1   |         |
|        | S911     | EVQ11G04M    | SW REV SKIP              | 1   |         |
|        | S912     | EVQ11G04M    | SW FWD SKIP              | 1   |         |
|        | S913     | EVQ11G04M    | SW STOP                  | 1   |         |
|        | S914     | EVQ11G04M    | SW VOL-                  | 1   |         |
|        | S915     | EVQ11G04M    | SW VOL+                  | 1   |         |
|        | S916     | EVQ11G04M    | SW SD REC D.BASS         | 1   |         |
|        | S7201    | RSH1A048-A   | SW RESET                 | 1   |         |
|        | PSW1     | D4FB1R100009 | SW                       | 1   |         |
|        |          |              |                          |     |         |
|        |          |              | CONNECTORS               |     |         |
|        |          |              |                          |     |         |
|        | CN1      | K1KA12BA0062 | 12P CONNECTOR            | 1   |         |
|        | CN2      | K1KA04AA0193 | 4P CONNECTOR             | 1   |         |
|        | CN4      | K1KA04BA0061 | 4P CONNECTOR             | 1   |         |
|        | CN100    | K1KA10BA0062 | 10P CONNECTOR            | 1   |         |
|        | CN110    | K1KA12AA0194 | 12P CONNECTOR            | 1   |         |
|        | CN350    | K1MN10AA0003 | 10P CONNECTOR            | 1   |         |
|        | CN381    | K1MN14BA0004 | 14P CONNECTOR            | 1   |         |
|        | CN607    | K1MN10BA0004 | 10P CONNECTOR            | 1   |         |
|        | CN650    | K1KA02AA0193 | 2P CONNECTOR             | 1   |         |
|        | CN651    | K1KA04AA0193 | 4P CONNECTOR             | 1   |         |
|        | CN652    | K1KA03BA0061 | 3P CONNECTOR             | 1   |         |
|        | CN653    | K1KA03AA0193 | 3P CONNECTOR             | 1   |         |
|        | CN801    | K1MN06C00005 | 6P CONNECTOR             | 1   |         |
|        | CN803    | K1KA05BA0061 | 5P CONNECTOR             | 1   |         |
|        | CN804    | K1KA02BA0061 | 2P CONNECTOR             | 1   |         |
|        | CN900    | K1MN09AA0003 | 9P CONNECTOR             | 1   |         |
|        | CN902    | K1MN08AA0003 | 8P CONNECTOR             | 1   |         |
|        | CN905    | K1KA10AA0194 | 10P CONNECTOR            | 1   |         |
|        | CN906    | K1KA04AA0193 | 4P CONNECTOR             | 1   |         |
|        | CN951    | K1MN08AA0003 | 8P CONNECTOR             | 1   |         |
|        | CN1001   | MF1514S0117  | 30P CONNECTOR            | 1   |         |
|        | CN1002   | K1MN14BA0141 | 14P CONNECTOR            | 1   |         |
|        | CN2815   | K1KA02BA0125 | 2P CONNECTOR             | 1   |         |
|        | CN6801   | K1MN09B00038 | 9P CONNECTOR             | 1   |         |
|        | CN7001   | K1MN16B00154 | 16P CONNECTOR            | 1   |         |
|        | CN7002   | K1MN25B00019 | 25P CONNECTOR            | 1   |         |
|        |          |              |                          |     |         |
|        |          |              | COILS AND INDUC-<br>TORS |     |         |
|        |          |              |                          |     |         |
|        | L1       | G0C150MA0056 | INDUCTOR                 | 1   |         |
|        | L2       | G0C150MA0056 | INDUCTOR                 | 1   |         |
|        | L3       | G0C150MA0056 | INDUCTOR                 | 1   |         |
|        | L4       | G0C150MA0056 | INDUCTOR                 | 1   |         |
|        | L302     | G0A200D00002 | CHOKE COIL               | 1   |         |
|        | L381     | J0JHC0000034 | INDUCTOR                 | 1   |         |
|        | L382     | J0JHC0000034 | INDUCTOR                 | 1   |         |
|        | L383     | J0JBC0000019 | INDUCTOR                 | 1   |         |
|        | L384     | J0JBC0000019 | INDUCTOR                 | 1   |         |
|        | L385     | J0JBC0000019 | INDUCTOR                 | 1   |         |
|        | L501     | J0JHC0000034 | INDUCTOR                 | 1   |         |
|        | L502     | G0A220GA0026 | CHOKE COIL               | 1   |         |
|        | L503     | G0A330ZA0045 | CHOKE COIL               | 1   |         |
|        | L504     | G0A100HA0023 | CHOKE COIL               | 1   |         |
|        | L505     | G0A220GA0026 | CHOKE COIL               | 1   |         |
|        | L506     | G0A330ZA0045 | CHOKE COIL               | 1   |         |
|        | L507     | G0A100HA0023 | CHOKE COIL               | 1   |         |

| Safety | Ref. No. | Part No.     | Part Name & Description | Qty | Remarks |
|--------|----------|--------------|-------------------------|-----|---------|
|        | L581     | G0C390JA0055 | INDUCTOR                | 1   |         |
| △      | L702     | G0B103G00015 | LINE FILTER             | 1   |         |
| △      | L703     | G0B103G00015 | LINE FILTER             | 1   |         |
| △      | L751     | ELF15N035AN  | LINE FILTER             | 1   |         |
|        | L802     | J0JBC0000019 | INDUCTOR                | 1   |         |
|        | L803     | J0JBC0000019 | INDUCTOR                | 1   |         |
|        | L804     | J0JBC0000019 | INDUCTOR                | 1   |         |
|        | L1001    | J0JHC0000107 | INDUCTOR                | 1   |         |
|        | L1002    | J0JHC0000107 | INDUCTOR                | 1   |         |
|        | L1003    | J0JHC0000107 | INDUCTOR                | 1   |         |
|        | L1004    | J0JHC0000107 | INDUCTOR                | 1   |         |
|        | L1005    | J0JHC0000107 | INDUCTOR                | 1   |         |
|        | L1006    | J0JHC0000107 | INDUCTOR                | 1   |         |
|        | L1007    | J0JHC0000107 | INDUCTOR                | 1   |         |
|        | L1008    | J0JHC0000107 | INDUCTOR                | 1   |         |
|        | L1009    | J0JHC0000107 | INDUCTOR                | 1   |         |
|        | L1010    | J0JHC0000107 | INDUCTOR                | 1   |         |
|        | L1011    | J0JHC0000107 | INDUCTOR                | 1   |         |
|        | L6802    | G0C3R3JA0055 | INDUCTOR                | 1   |         |
|        | L6806    | G0C101JA0055 | INDUCTOR                | 1   |         |
|        | LB581    | J0JBC0000041 | INDUCTOR                | 1   |         |
|        | LB582    | J0JBC0000041 | INDUCTOR                | 1   |         |
|        |          |              | TRANSFORMERS            |     |         |
| △      | T581     | G4D1A0000117 | SWITCHING TRANS-FORMER  | 1   |         |
| △      | T701     | G4DYA0000139 | MAIN TRANSFORMER        | 1   |         |
| △      | T751     | ETS19AB221AG | BACKUP TRANS-FORMER     | 1   |         |
|        |          |              | COMPONENT COMBI-NATION  |     |         |
| △      | Z752     | ERZVA5Z471   | ZNR                     | 1   |         |
|        | ZJ701    | K4CZ01000027 | EARTH LUG               | 1   |         |
|        | IR921    | B3RAD0000167 | REMOTE CONTROL SENSOR   | 1   |         |
|        |          |              | PHOTO COUPLERS          |     |         |
| △      | PC701    | B3PBA0000454 | PHOTO COUPLER           | 1   |         |
| △      | PC751    | B3PBA0000454 | PHOTO COUPLER           | 1   |         |
|        |          |              | OSCILLATORS             |     |         |
|        | X801     | H0A327200097 | CRYSTAL OSCILLA-TOR     | 1   |         |
|        | X802     | H2B800400005 | CRYSTAL OSCILLA-TOR     | 1   |         |
|        | X7201    | H0H169500013 | CRYSTAL OSCILLA-TOR     | 1   |         |
|        |          |              | FL DISPLAY              |     |         |
|        | FL6801   | A2BB00000172 | LCD DISPLAY             | 1   |         |
|        |          |              | RELAY                   |     |         |
| △      | RY701    | K6B1AEA00017 | RELAY                   | 1   |         |
|        |          |              | FUSE                    |     |         |
| △      | F751     | K5D302AQ0003 | FUSE                    | 1   |         |
|        |          |              | FUSE HOLDERS            |     |         |
|        | ZA751    | EYF52BCY     | FUSE HOLDER             | 1   |         |
|        | ZA752    | EYF52BCY     | FUSE HOLDER             | 1   |         |
|        |          |              | FUSE PROTECTOR          |     |         |
| △      | FP581    | K5H7512A0010 | PROTECTOR               | 1   |         |

| Safety | Ref. No. | Part No.     | Part Name & Description | Qty | Remarks |
|--------|----------|--------------|-------------------------|-----|---------|
|        |          |              | THERMISTORS             |     |         |
|        | JK951    | K2HC1YYB0033 | JK MUSIC PORT           | 1   |         |
|        | JK952    | K2HC1YYB0033 | JK HEADPHONE            | 1   |         |
| △      | P751     | K2AB2B000007 | AC INLET                | 1   |         |
|        |          |              | THERMISTOR              |     |         |
| △      | TH701    | D4CAA5R10001 | THERMISTOR              | 1   |         |
|        |          |              | CHIP JUMPERS            |     |         |
|        | K9       | D0GBR00JA008 | 0 1/16W                 | 1   |         |
|        | K14      | D0GBR00JA008 | 0 1/16W                 | 1   |         |
|        | L951     | D0GBR00JA008 | 0 1/16W                 | 1   |         |
|        | L952     | D0GBR00JA008 | 0 1/16W                 | 1   |         |
|        | L953     | D0GBR00JA008 | 0 1/16W                 | 1   |         |
|        | L954     | D0GBR00JA008 | 0 1/16W                 | 1   |         |
|        | L955     | D0GBR00JA008 | 0 1/16W                 | 1   |         |
|        | L956     | D0GBR00JA008 | 0 1/16W                 | 1   |         |
|        | L957     | D0GBR00JA008 | 0 1/16W                 | 1   |         |
|        | L958     | D0GBR00JA008 | 0 1/16W                 | 1   |         |
|        | LB7262   | D0GBR00JA008 | 0 1/16W                 | 1   |         |
|        | LB7263   | D0GBR00JA008 | 0 1/16W                 | 1   |         |
|        | LB7264   | D0GBR00JA008 | 0 1/16W                 | 1   |         |
|        |          |              | RESISTORS               |     |         |
|        | R1       | D0GB223JA008 | 22K 1/16W               | 1   |         |
|        | R2       | D0GB223JA008 | 22K 1/16W               | 1   |         |
|        | R3       | D0GB223JA008 | 22K 1/16W               | 1   |         |
|        | R7       | D0GB392JA008 | 3.9K 1/16W              | 1   |         |
|        | R9       | D0GB183JA008 | 18K 1/16W               | 1   |         |
|        | R11      | D0GB103JA008 | 10K 1/16W               | 1   |         |
|        | R12      | D0GB104JA008 | 100K 1/16W              | 1   |         |
|        | R13      | D0GB104JA008 | 100K 1/16W              | 1   |         |
|        | R16      | D0GD682JA017 | 6.8K 1/10W              | 1   |         |
|        | R17      | D0GD682JA017 | 6.8K 1/10W              | 1   |         |
|        | R18      | D0GD122JA017 | 1.2K 1/10W              | 1   |         |
|        | R19      | D0GD122JA017 | 1.2K 1/10W              | 1   |         |
|        | R20      | D0GD183JA017 | 18K 1/10W               | 1   |         |
|        | R21      | D0GD183JA017 | 18K 1/10W               | 1   |         |
|        | R22      | D0GB102JA008 | 1K 1/16W                | 1   |         |
|        | R23      | D0GB225JA008 | 2.2M 1/16W              | 1   |         |
|        | R24      | D0GB102JA008 | 1K 1/16W                | 1   |         |
|        | R101     | D0GB470JA008 | 47 1/16W                | 1   |         |
|        | R102     | D0GB823JA008 | 82K 1/16W               | 1   |         |
|        | R103     | D0GB153JA008 | 15K 1/16W               | 1   |         |
|        | R104     | D0GB122JA008 | 1.2K 1/16W              | 1   |         |
|        | R105     | D0GDR00JA017 | 0 1/10W                 | 1   |         |
|        | R106     | D0GDR00JA017 | 0 1/10W                 | 1   |         |
|        | R111     | ERJ6GEYJ272V | 2.7K 1/8W               | 1   |         |
|        | R112     | ERJ6GEYJ272V | 2.7K 1/8W               | 1   |         |
|        | R113     | D0GD154JA017 | 150K 1/10W              | 1   |         |
|        | R114     | D0GD154JA017 | 150K 1/10W              | 1   |         |
|        | R115     | D0GD222JA017 | 2.2K 1/10W              | 1   |         |
|        | R116     | D0GD222JA017 | 2.2K 1/10W              | 1   |         |
|        | R117     | D0GD102JA017 | 1K 1/10W                | 1   |         |
|        | R118     | D0GD122JA017 | 1.2K 1/10W              | 1   |         |
|        | R119     | ERJ6GEYJ104V | 100K 1/8W               | 1   |         |
|        | R120     | ERJ6GEYJ104V | 100K 1/8W               | 1   |         |
|        | R121     | D0GD392JA017 | 3.9K 1/10W              | 1   |         |
|        | R122     | D0GD392JA017 | 3.9K 1/10W              | 1   |         |
|        | R123     | D0GD392JA017 | 3.9K 1/10W              | 1   |         |
|        | R124     | D0GD392JA017 | 3.9K 1/10W              | 1   |         |
|        | R125     | D0GD470JA017 | 47 1/10W                | 1   |         |
|        | R126     | D0GD470JA017 | 47 1/10W                | 1   |         |
|        | R127     | D0GD223JA017 | 22K 1/10W               | 1   |         |
|        | R128     | D0GD102JA017 | 1K 1/10W                | 1   |         |
|        | R130     | ERJ6GEYJ475V | 4.7M 1/8W               | 1   |         |
|        | R131     | D0GD103JA017 | 10K 1/10W               | 1   |         |
|        | R132     | D0GD103JA017 | 10K 1/10W               | 1   |         |

| Safety | Ref. No. | Part No.     | Part Name & Description | Qty | Remarks |
|--------|----------|--------------|-------------------------|-----|---------|
|        | R133     | D0GB182JA008 | 1.8K 1/16W              | 1   |         |
|        | R134     | D0GD103JA017 | 10K 1/10W               | 1   |         |
|        | R135     | D0GD103JA017 | 10K 1/10W               | 1   |         |
|        | R136     | D0GB182JA008 | 1.8K 1/16W              | 1   |         |
|        | R137     | D0GB152JA008 | 1.5K 1/16W              | 1   |         |
|        | R138     | D0GB103JA008 | 10K 1/16W               | 1   |         |
|        | R139     | D0GB103JA008 | 10K 1/16W               | 1   |         |
|        | R140     | D0GB102JA008 | 1K 1/16W                | 1   |         |
|        | R206     | D0GB682JA008 | 6.8K 1/16W              | 1   |         |
|        | R220     | D0GB561JA008 | 560 1/16W               | 1   |         |
|        | R221     | D0GB472JA008 | 4.7K 1/16W              | 1   |         |
|        | R222     | D0GB123JA008 | 12K 1/16W               | 1   |         |
|        | R230     | D0GB472JA008 | 4.7K 1/16W              | 1   |         |
|        | R251     | D0GD122JA017 | 1.2K 1/10W              | 1   |         |
|        | R252     | ERJ6GEYJ104V | 100K 1/8W               | 1   |         |
|        | R253     | D0GDR00JA017 | 0 1/10W                 | 1   |         |
|        | R254     | D0GD332JA017 | 3.3K 1/10W              | 1   |         |
|        | R255     | D0GD122JA017 | 1.2K 1/10W              | 1   |         |
|        | R256     | ERJ6GEYJ104V | 100K 1/8W               | 1   |         |
|        | R257     | ERJ6GEYJ123V | 12K 1/8W                | 1   |         |
|        | R258     | ERJ6GEYJ273V | 27K 1/8W                | 1   |         |
|        | R260     | ERJ6GEYJ104V | 100K 1/8W               | 1   |         |
|        | R261     | D0GD390JA017 | 39 1/10W                | 1   |         |
|        | R262     | D0GD390JA017 | 39 1/10W                | 1   |         |
|        | R263     | ERJ6GEYJ104V | 100K 1/8W               | 1   |         |
|        | R264     | D0GDR00JA017 | 0 1/10W                 | 1   |         |
|        | R267     | D0GDR00JA017 | 0 1/10W                 | 1   |         |
|        | R350     | D0GBR00JA008 | 0 1/16W                 | 1   |         |
|        | R392     | D0GB104JA008 | 100K 1/16W              | 1   |         |
|        | R393     | D0GB472JA008 | 4.7K 1/16W              | 1   |         |
|        | R394     | D0GB473JA008 | 47K 1/16W               | 1   |         |
|        | R406     | D0GB682JA008 | 6.8K 1/16W              | 1   |         |
|        | R420     | D0GB561JA008 | 560 1/16W               | 1   |         |
|        | R421     | D0GB472JA008 | 4.7K 1/16W              | 1   |         |
|        | R422     | D0GB123JA008 | 12K 1/16W               | 1   |         |
|        | R451     | D0GD122JA017 | 1.2K 1/10W              | 1   |         |
|        | R452     | ERJ6GEYJ104V | 100K 1/8W               | 1   |         |
|        | R453     | D0GDR00JA017 | 0 1/10W                 | 1   |         |
|        | R454     | D0GD332JA017 | 3.3K 1/10W              | 1   |         |
|        | R455     | D0GD122JA017 | 1.2K 1/10W              | 1   |         |
|        | R456     | ERJ6GEYJ104V | 100K 1/8W               | 1   |         |
|        | R457     | ERJ6GEYJ123V | 12K 1/8W                | 1   |         |
|        | R458     | ERJ6GEYJ273V | 27K 1/8W                | 1   |         |
|        | R460     | ERJ6GEYJ104V | 100K 1/8W               | 1   |         |
|        | R461     | D0GD390JA017 | 39 1/10W                | 1   |         |
|        | R462     | D0GD390JA017 | 39 1/10W                | 1   |         |
|        | R463     | ERJ6GEYJ104V | 100K 1/8W               | 1   |         |
|        | R464     | D0GDR00JA017 | 0 1/10W                 | 1   |         |
|        | R467     | D0GDR00JA017 | 0 1/10W                 | 1   |         |
|        | R516     | D0GB681JA008 | 680 1/16W               | 1   |         |
|        | R518     | D0GB122JA008 | 1.2K 1/16W              | 1   |         |
|        | R519     | D0GB101JA008 | 100 1/16W               | 1   |         |
|        | R520     | ERJ6GEYJ334V | 330K 1/8W               | 1   |         |
|        | R521     | ERJ3RBD562V  | 5.6K 1/16W              | 1   |         |
|        | R522     | ERJ3RBD821V  | 820 1/16W               | 1   |         |
|        | R523     | D0HB102ZA002 | 1K 1/16W                | 1   |         |
|        | R525     | ERJ3RBD272V  | 2.7K 1/16W              | 1   |         |
|        | R526     | ERJ3RBD471V  | 470 1/16W               | 1   |         |
|        | R527     | D0HB102ZA002 | 1K 1/16W                | 1   |         |
|        | R529     | D0GB101JA008 | 100 1/16W               | 1   |         |
|        | R530     | D0GB221JA008 | 220 1/16W               | 1   |         |
|        | R533     | ERJ6GEYJ473V | 47K 1/8W                | 1   |         |
|        | R551     | D0GBR00JA008 | 0 1/16W                 | 1   |         |
|        | R552     | D0GB103JA008 | 10K 1/16W               | 1   |         |
|        | R553     | D0GB472JA008 | 4.7K 1/16W              | 1   |         |
|        | R554     | D0GB103JA008 | 10K 1/16W               | 1   |         |
|        | R555     | D0GB824JA008 | 820K 1/16W              | 1   |         |
|        | R556     | D0GB104JA008 | 100K 1/16W              | 1   |         |
|        | R557     | D0GB562JA008 | 5.6K 1/16W              | 1   |         |
|        | R558     | D0GB103JA008 | 10K 1/16W               | 1   |         |
|        | R559     | D0AF270JA039 | 27 1/2W                 | 1   |         |
|        | R560     | D0GB563JA008 | 56K 1/16W               | 1   |         |
|        | R561     | D0GB101JA008 | 100 1/16W               | 1   |         |

| Safety | Ref. No. | Part No.     | Part Name & Description | Qty | Remarks |
|--------|----------|--------------|-------------------------|-----|---------|
|        | R562     | D0GB104JA008 | 100K 1/16W              | 1   |         |
|        | R563     | D0GB824JA008 | 820K 1/16W              | 1   |         |
|        | R564     | D0GB563JA008 | 56K 1/16W               | 1   |         |
|        | R581     | D0GB472JA008 | 4.7K 1/16W              | 1   |         |
|        | R582     | D0GB470JA008 | 47 1/16W                | 1   |         |
|        | R583     | D0GB473JA008 | 47K 1/16W               | 1   |         |
|        | R584     | D0GB104JA008 | 100K 1/16W              | 1   |         |
|        | R585     | D0GB472JA008 | 4.7K 1/16W              | 1   |         |
|        | R586     | D0GB473JA008 | 47K 1/16W               | 1   |         |
|        | R587     | D0GB472JA008 | 4.7K 1/16W              | 1   |         |
|        | R589     | D0GB473JA008 | 47K 1/16W               | 1   |         |
|        | R590     | ERJ6GEYJ2R7V | 2.7 1/8W                | 1   |         |
|        | R591     | ERJ6GEYJ2R7V | 2.7 1/8W                | 1   |         |
|        | R592     | D0GBR00JA008 | 0 1/16W                 | 1   |         |
|        | R593     | D0GBR00JA008 | 0 1/16W                 | 1   |         |
|        | R701     | ERJ8GEYJ121V | 120 1/4W                | 1   |         |
|        | R702     | ERJ8GEYJ333V | 33K 1/4W                | 1   |         |
|        | R703     | D0GD102JA017 | 1K 1/10W                | 1   |         |
|        | R704     | D0GD102JA017 | 1K 1/10W                | 1   |         |
|        | R705     | ERJ8GEYJ153V | 15K 1/4W                | 1   |         |
|        | R706     | D0GD101JA017 | 100 1/10W               | 1   |         |
|        | R707     | ERJ8GEYJ183V | 18K 1/4W                | 1   |         |
|        | R708     | ERG2SJ680E   | 68 2W                   | 1   |         |
|        | R709     | ERJ6GEYJ182V | 1.8K 1/8W               | 1   |         |
|        | R710     | D0GD392JA017 | 3.9K 1/10W              | 1   |         |
|        | R711     | ERJ6GEYJ123V | 12K 1/8W                | 1   |         |
|        | R712     | D0GDR00JA017 | 0 1/10W                 | 1   |         |
|        | R714     | D0GD102JA017 | 1K 1/10W                | 1   |         |
|        | R715     | D0GD102JA017 | 1K 1/10W                | 1   |         |
|        | R716     | D0GD103JA017 | 10K 1/10W               | 1   |         |
|        | R717     | D0GD122JA017 | 1.2K 1/10W              | 1   |         |
|        | R718     | ERX2SJR22P   | 22 2W                   | 1   |         |
|        | R720     | ERJ6GEYJ272V | 2.7K 1/8W               | 1   |         |
|        | R721     | D0GD472JA017 | 4.7K 1/10W              | 1   |         |
|        | R722     | D0GD152JA017 | 1.5K 1/10W              | 1   |         |
|        | R723     | ERJ6GEYJ473V | 47K 1/8W                | 1   |         |
|        | R724     | D0GD102JA017 | 1K 1/10W                | 1   |         |
|        | R725     | D0GB152JA008 | 1.5K 1/16W              | 1   |         |
|        | R726     | ERJ6GEYJ271V | 270 1/8W                | 1   |         |
|        | R727     | ERDS1TJ475B  | 4.7M 1/2W               | 1   |         |
|        | R737     | D0GD152JA017 | 1.5K 1/10W              | 1   |         |
|        | R738     | ERG2SJ680E   | 68 2W                   | 1   |         |
|        | R739     | D0GD101JA017 | 100 1/10W               | 1   |         |
|        | R740     | ERJ6GEYJ182V | 1.8K 1/8W               | 1   |         |
|        | R742     | ERJ8GEYJ333V | 33K 1/4W                | 1   |         |
|        | R743     | ERJ8GEYJ121V | 120 1/4W                | 1   |         |
|        | R751     | D0GD220JA017 | 22 1/10W                | 1   |         |
|        | R752     | ERJ1TYJ104U  | 100K 1W                 | 1   |         |
|        | R753     | D0GD471JA017 | 470 1/10W               | 1   |         |
|        | R754     | D0GD103JA017 | 10K 1/10W               | 1   |         |
|        | R755     | D0GD222JA017 | 2.2K 1/10W              | 1   |         |
|        | R756     | ERJ6GEYJ474V | 470K 1/8W               | 1   |         |
|        | R757     | D0GD153JA017 | 15K 1/10W               | 1   |         |
|        | R758     | D0GD103JA017 | 10K 1/10W               | 1   |         |
|        | R759     | D0GDR00JA017 | 0 1/10W                 | 1   |         |
|        | R760     | D0GD102JA017 | 1K 1/10W                | 1   |         |
|        | R801     | D0GBR00JA008 | 0 1/16W                 | 1   |         |
|        | R802     | D0GB224JA008 | 220K 1/16W              | 1   |         |
|        | R803     | D0GB102JA008 | 1K 1/16W                | 1   |         |
|        | R805     | D0GB472JA008 | 4.7K 1/16W              | 1   |         |
|        | R807     | D0GB101JA008 | 100 1/16W               | 1   |         |
|        | R808     | D0GB102JA008 | 1K 1/16W                | 1   |         |
|        | R809     | D0GB101JA008 | 100 1/16W               | 1   |         |
|        | R810     | D0GBR00JA008 | 0 1/16W                 | 1   |         |
|        | R811     | D0GBR00JA008 | 0 1/16W                 | 1   |         |
|        | R812     | D0GB102JA008 | 1K 1/16W                | 1   |         |
|        | R813     | D0GB472JA008 | 4.7K 1/16W              | 1   |         |
|        | R814     | D0GB153JA008 | 15K 1/16W               | 1   |         |
|        | R815     | D0GB103JA008 | 10K 1/16W               | 1   |         |
|        | R816     | D0GB103JA008 | 10K 1/16W               | 1   |         |
|        | R817     | D0GB153JA008 | 15K 1/16W               | 1   |         |
|        | R819     | D0GB102JA008 | 1K 1/16W                | 1   |         |
|        | R820     | D0GB103JA008 | 10K 1/16W               | 1   |         |

| Safety | Ref. No. | Part No.     | Part Name & Description | Qty | Remarks |
|--------|----------|--------------|-------------------------|-----|---------|
|        | R821     | D0GB102JA008 | 1K 1/16W                | 1   |         |
|        | R822     | D0GB102JA008 | 1K 1/16W                | 1   |         |
|        | R823     | D0GB102JA008 | 1K 1/16W                | 1   |         |
|        | R824     | D0GB102JA008 | 1K 1/16W                | 1   |         |
|        | R825     | D0GB102JA008 | 1K 1/16W                | 1   |         |
|        | R827     | D0GB102JA008 | 1K 1/16W                | 1   |         |
|        | R828     | D0GB101JA008 | 100 1/16W               | 1   |         |
|        | R829     | D0GB101JA008 | 100 1/16W               | 1   |         |
|        | R830     | D0GB101JA008 | 100 1/16W               | 1   |         |
|        | R831     | D0GB102JA008 | 1K 1/16W                | 1   |         |
|        | R832     | D0GB104JA008 | 100K 1/16W              | 1   |         |
|        | R833     | D0GB104JA008 | 100K 1/16W              | 1   |         |
|        | R834     | D0GB101JA008 | 100 1/16W               | 1   |         |
|        | R835     | D0GB101JA008 | 100 1/16W               | 1   |         |
|        | R836     | D0GB103JA008 | 10K 1/16W               | 1   |         |
|        | R837     | D0GB103JA008 | 10K 1/16W               | 1   |         |
|        | R845     | D0GB472JA008 | 4.7K 1/16W              | 1   |         |
|        | R846     | D0GB472JA008 | 4.7K 1/16W              | 1   |         |
|        | R848     | D0GB102JA008 | 1K 1/16W                | 1   |         |
|        | R849     | D0GB102JA008 | 1K 1/16W                | 1   |         |
|        | R850     | D0GB223JA008 | 22K 1/16W               | 1   |         |
|        | R853     | D0GB101JA008 | 100 1/16W               | 1   |         |
|        | R854     | D0GB101JA008 | 100 1/16W               | 1   |         |
|        | R855     | D0GB101JA008 | 100 1/16W               | 1   |         |
|        | R856     | D0GB564JA008 | 560K 1/16W              | 1   |         |
|        | R860     | D0GB102JA008 | 1K 1/16W                | 1   |         |
|        | R861     | D0GB102JA008 | 1K 1/16W                | 1   |         |
|        | R868     | D0GB102JA008 | 1K 1/16W                | 1   |         |
|        | R870     | D0GB101JA008 | 100 1/16W               | 1   |         |
|        | R871     | D0GB102JA008 | 1K 1/16W                | 1   |         |
|        | R872     | D0GB472JA008 | 4.7K 1/16W              | 1   |         |
|        | R873     | D0GB473JA008 | 47K 1/16W               | 1   |         |
|        | R874     | D0GB821JA008 | 820 1/16W               | 1   |         |
|        | R875     | D0GB103JA008 | 10K 1/16W               | 1   |         |
|        | R876     | D0GB823JA008 | 82K 1/16W               | 1   |         |
|        | R877     | D0GB103JA008 | 10K 1/16W               | 1   |         |
|        | R880     | D0GB101JA008 | 100 1/16W               | 1   |         |
|        | R881     | D0GB334JA008 | 330K 1/16W              | 1   |         |
|        | R882     | D0GB224JA008 | 220K 1/16W              | 1   |         |
|        | R883     | D0GB101JA008 | 100 1/16W               | 1   |         |
|        | R884     | D0GB101JA008 | 100 1/16W               | 1   |         |
|        | R885     | D0GB104JA008 | 100K 1/16W              | 1   |         |
|        | R886     | D0GB104JA008 | 100K 1/16W              | 1   |         |
|        | R887     | D0GB101JA008 | 100 1/16W               | 1   |         |
|        | R888     | D0GB103JA008 | 10K 1/16W               | 1   |         |
|        | R889     | D0GB123JA008 | 12K 1/16W               | 1   |         |
|        | R897     | D0GB472JA008 | 4.7K 1/16W              | 1   |         |
|        | R898     | D0GB103JA008 | 10K 1/16W               | 1   |         |
|        | R899     | D0GB103JA008 | 10K 1/16W               | 1   |         |
|        | R901     | D0GB122JA008 | 1.2K 1/16W              | 1   |         |
|        | R902     | D0GB152JA008 | 1.5K 1/16W              | 1   |         |
|        | R903     | D0GB222JA008 | 2.2K 1/16W              | 1   |         |
|        | R904     | D0GB332JA008 | 3.3K 1/16W              | 1   |         |
|        | R905     | D0GB472JA008 | 4.7K 1/16W              | 1   |         |
|        | R906     | D0GB682JA008 | 6.8K 1/16W              | 1   |         |
|        | R911     | D0GB122JA008 | 1.2K 1/16W              | 1   |         |
|        | R912     | D0GB152JA008 | 1.5K 1/16W              | 1   |         |
|        | R913     | D0GB222JA008 | 2.2K 1/16W              | 1   |         |
|        | R914     | D0GB332JA008 | 3.3K 1/16W              | 1   |         |
|        | R915     | D0GB472JA008 | 4.7K 1/16W              | 1   |         |
|        | R916     | D0GB561JA008 | 560 1/16W               | 1   |         |
|        | R920     | D0GB470JA008 | 47 1/16W                | 1   |         |
|        | R921     | D0GB101JA008 | 100 1/16W               | 1   |         |
|        | R949     | D0GB471JA008 | 470 1/16W               | 1   |         |
|        | R950     | D0GB471JA008 | 470 1/16W               | 1   |         |
|        | R951     | D0GB562JA008 | 5.6K 1/16W              | 1   |         |
|        | R952     | D0GB562JA008 | 5.6K 1/16W              | 1   |         |
|        | R953     | D0GB101JA008 | 100 1/16W               | 1   |         |
|        | R955     | D0GB101JA008 | 100 1/16W               | 1   |         |
|        | R957     | D0GB103JA008 | 10K 1/16W               | 1   |         |
|        | R964     | D0GB101JA008 | 100 1/16W               | 1   |         |
|        | R965     | D0GB101JA008 | 100 1/16W               | 1   |         |
|        | R981     | D0GB472JA008 | 4.7K 1/16W              | 1   |         |

| Safety | Ref. No. | Part No.     | Part Name & Description | Qty | Remarks |
|--------|----------|--------------|-------------------------|-----|---------|
|        | R982     | D0GB472JA008 | 4.7K 1/16W              | 1   |         |
|        | R983     | D0GB101JA008 | 100 1/16W               | 1   |         |
|        | R984     | D0GB103JA008 | 10K 1/16W               | 1   |         |
|        | R985     | D0GB472JA008 | 4.7K 1/16W              | 1   |         |
|        | R986     | D0GB104JA008 | 100K 1/16W              | 1   |         |
|        | R1001    | D0GB101JA008 | 100 1/16W               | 1   |         |
|        | R1002    | D0GB101JA008 | 100 1/16W               | 1   |         |
|        | R1003    | D0GB104JA008 | 100K 1/16W              | 1   |         |
|        | R1004    | D0GB104JA008 | 100K 1/16W              | 1   |         |
|        | R1005    | ERJ3GEYF753V | 75K 1/10W               | 1   |         |
|        | R1006    | ERJ3GEYF753V | 75K 1/10W               | 1   |         |
|        | R1007    | ERJ3GEYF513V | 51K 1/10W               | 1   |         |
|        | R1008    | ERJ3GEYF513V | 51K 1/10W               | 1   |         |
|        | R1009    | D0GB151JA008 | 150 1/16W               | 1   |         |
|        | R1010    | D0GB151JA008 | 150 1/16W               | 1   |         |
|        | R1011    | D0GBR00JA008 | 0 1/16W                 | 1   |         |
|        | R1012    | D0GBR00JA008 | 0 1/16W                 | 1   |         |
|        | R1013    | D0GB102JA008 | 1K 1/16W                | 1   |         |
|        | R6804    | D0GB104JA008 | 100K 1/16W              | 1   |         |
|        | R6805    | D0GB103JA008 | 10K 1/16W               | 1   |         |
|        | R6806    | D0GB102JA008 | 1K 1/16W                | 1   |         |
|        | R6807    | D0GB102JA008 | 1K 1/16W                | 1   |         |
|        | R6808    | D0GB102JA008 | 1K 1/16W                | 1   |         |
|        | R7110    | D0GBR00JA008 | 0 1/16W                 | 1   |         |
|        | R7111    | D0GB103JA008 | 10K 1/16W               | 1   |         |
|        | R7211    | D0GB823JA008 | 82K 1/16W               | 1   |         |
|        | R7212    | D0GB821JA008 | 820 1/16W               | 1   |         |
|        | R7214    | D0GB471JA008 | 470 1/16W               | 1   |         |
|        | R7217    | D0GB102JA008 | 1K 1/16W                | 1   |         |
|        | R7218    | D0GB102JA008 | 1K 1/16W                | 1   |         |
|        | R7220    | D0GB105JA008 | 1M 1/16W                | 1   |         |
|        | R7221    | D0GB101JA008 | 100 1/16W               | 1   |         |
|        | R7253    | D0GB100JA008 | 10 1/16W                | 1   |         |
|        | R7254    | D0GB102JA008 | 1K 1/16W                | 1   |         |
|        | R7315    | D0GB332JA008 | 3.3K 1/16W              | 1   |         |
|        | R7323    | D0GB332JA008 | 3.3K 1/16W              | 1   |         |
|        | R7325    | D0GB331JA008 | 330 1/16W               | 1   |         |
|        | R7327    | D0GB102JA008 | 1K 1/16W                | 1   |         |
|        | R7328    | D0GB103JA008 | 10K 1/16W               | 1   |         |
|        | R7329    | D0GB102JA008 | 1K 1/16W                | 1   |         |
|        | R7330    | D0GB562JA008 | 5.6K 1/16W              | 1   |         |
|        | R7331    | D0GB223JA008 | 22K 1/16W               | 1   |         |
|        | R7332    | D0GB102JA008 | 1K 1/16W                | 1   |         |
|        | R7335    | D0GB101JA008 | 100 1/16W               | 1   |         |
|        | R7336    | D0GB100JA008 | 10 1/16W                | 1   |         |
|        | R7339    | D0GB102JA008 | 1K 1/16W                | 1   |         |
|        | R7349    | D0GB183JA008 | 18K 1/16W               | 1   |         |
|        | R7401    | D0GBR00JA008 | 0 1/16W                 | 1   |         |
|        | R7601    | D0GB4R7JA008 | 4.7 1/16W               | 1   |         |
|        | R7650    | D0GB5R6JA008 | 5.6 1/16W               | 1   |         |
|        |          |              |                         |     |         |
|        |          |              | CAPACITORS              |     |         |
|        |          |              |                         |     |         |
|        | C1       | F1K1C1060001 | 10uF 16V                | 1   |         |
|        | C2       | F1H1H104A783 | 0.1uF 50V               | 1   |         |
|        | C3       | F1H1H104A783 | 0.1uF 50V               | 1   |         |
|        | C4       | F1H1C105A097 | 1uF 16V                 | 1   |         |
|        | C5       | F2A1E2210050 | 220uF 25V               | 1   |         |
|        | C6       | F1H1H104A783 | 0.1uF 50V               | 1   |         |
|        | C7       | F1J1E105A171 | 1uF 25V                 | 1   |         |
|        | C8       | F1J1E105A171 | 1uF 25V                 | 1   |         |
|        | C9       | F2A1E2210050 | 220uF 25V               | 1   |         |
|        | C10      | F2A1E2210050 | 220uF 25V               | 1   |         |
|        | C11      | F1K1H105A138 | 1uF 50V                 | 1   |         |
|        | C12      | F1K1H105A138 | 1uF 50V                 | 1   |         |
|        | C13      | ECQV1H104JL3 | 0.1uF 50V               | 1   |         |
|        | C16      | ECQV1H104JL3 | 0.1uF 50V               | 1   |         |
|        | C17      | F1K1H105A138 | 1uF 50V                 | 1   |         |
|        | C18      | F1K1H105A138 | 1uF 50V                 | 1   |         |
|        | C21      | F1J1E105A171 | 1uF 25V                 | 1   |         |
|        | C22      | F1J1E105A171 | 1uF 25V                 | 1   |         |
|        | C23      | F1K1E335A029 | 3.3uF 25V               | 1   |         |
|        | C25      | ECQV1H104JL3 | 0.1uF 50V               | 1   |         |

| Safety | Ref. No. | Part No.     | Part Name & Description | Qty | Remarks |
|--------|----------|--------------|-------------------------|-----|---------|
|        | C26      | ECQV1H104JL3 | 0.1uF 50V               | 1   |         |
|        | C28      | ECQV1H474JL3 | 0.47uF 50V              | 1   |         |
|        | C29      | ECQV1H474JL3 | 0.47uF 50V              | 1   |         |
|        | C34      | F1J1E4750002 | 4.7uF 25V               | 1   |         |
|        | C35      | F1J1E4750002 | 4.7uF 25V               | 1   |         |
|        | C38      | F1H1E334A068 | 0.33uF 25V              | 1   |         |
|        | C39      | F1H1E334A068 | 0.33uF 25V              | 1   |         |
|        | C40      | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C41      | F1H1C224A074 | 0.22uF 16V              | 1   |         |
|        | C101     | F3H1C107A068 | 100uF 16V               | 1   |         |
|        | C102     | F1H1C104A042 | 0.1uF 16V               | 1   |         |
|        | C103     | F3H1A476A073 | 47uF 10V                | 1   |         |
|        | C104     | F1H1C224A074 | 0.22uF 16V              | 1   |         |
|        | C105     | F1H1C224A074 | 0.22uF 16V              | 1   |         |
|        | C107     | D0GBR00JA017 | 0 1/10W                 | 1   |         |
|        | C111     | F2A1A101A204 | 100uF 10V               | 1   |         |
|        | C112     | F1J0J106A014 | 10uF 6.3V               | 1   |         |
|        | C113     | F2A1A101A204 | 100uF 10V               | 1   |         |
|        | C114     | F2A1C101A234 | 100uF 16V               | 1   |         |
|        | C115     | ECJ1VC1H331K | 330pF 50V               | 1   |         |
|        | C116     | ECJ1VC1H331K | 330pF 50V               | 1   |         |
|        | C117     | F1H1C104A042 | 0.1uF 16V               | 1   |         |
|        | C118     | F2A1C101A234 | 100uF 16V               | 1   |         |
|        | C119     | F1H1C224A068 | 0.22uF 16V              | 1   |         |
|        | C120     | F1H1C105A097 | 1uF 16V                 | 1   |         |
|        | C121     | F2A1C100A234 | 10uF 16V                | 1   |         |
|        | C122     | F2A1H4R7A234 | 4.7uF 50V               | 1   |         |
|        | C123     | F2A1C101A234 | 100uF 16V               | 1   |         |
|        | C204     | F1H1C105A097 | 1uF 16V                 | 1   |         |
|        | C206     | F1H1C105A097 | 1uF 16V                 | 1   |         |
|        | C207     | F1H1H221A748 | 220pF 50V               | 1   |         |
|        | C208     | F1H1C105A097 | 1uF 16V                 | 1   |         |
|        | C212     | F1H1C105A097 | 1uF 16V                 | 1   |         |
|        | C213     | F2A0J470A013 | 47uF 6.3V               | 1   |         |
|        | C214     | F1H1C105A097 | 1uF 16V                 | 1   |         |
|        | C219     | F1H1A5640001 | 0.56uF 10V              | 1   |         |
|        | C220     | F1H1A5640001 | 0.56uF 10V              | 1   |         |
|        | C221     | F1H1H332A013 | 3300pF 50V              | 1   |         |
|        | C222     | F1H1H103A219 | 0.01uF 50V              | 1   |         |
|        | C223     | F1H1H103A219 | 0.01uF 50V              | 1   |         |
|        | C224     | F1H1H473A783 | 0.047uF 50V             | 1   |         |
|        | C225     | F1H1C224A068 | 0.22uF 16V              | 1   |         |
|        | C226     | F1H1H332A013 | 3300pF 50V              | 1   |         |
|        | C230     | F1H1C105A097 | 1uF 16V                 | 1   |         |
|        | C231     | F1H1C105A097 | 1uF 16V                 | 1   |         |
|        | C232     | F1H1C105A097 | 1uF 16V                 | 1   |         |
|        | C241     | F1J0J475A008 | 4.7uF 6.3V              | 1   |         |
|        | C242     | D0GBR00JA008 | 0 1/16W                 | 1   |         |
|        | C251     | F1H1A824A036 | 0.82uF 10V              | 1   |         |
|        | C252     | ECJ1VB1A334K | 0.33uF 10V              | 1   |         |
|        | C253     | F1H1C224A074 | 0.22uF 16V              | 1   |         |
|        | C254     | F1H1H101A230 | 100pF 50V               | 1   |         |
|        | C255     | F1H1A225A051 | 2.2uF 10V               | 1   |         |
|        | C256     | ECJ1VB1H393K | 0.039uF 50V             | 1   |         |
|        | C257     | F1H1H223A219 | 0.022uF 50V             | 1   |         |
|        | C258     | F1H1A105A025 | 1uF 10V                 | 1   |         |
|        | C259     | F1H1H101A230 | 100pF 50V               | 1   |         |
|        | C260     | F1H1H560A230 | 56pF 50V                | 1   |         |
|        | C262     | F2A1HR10A234 | 0.10uF 50V              | 1   |         |
|        | C263     | F2A1A470A204 | 47uF 10V                | 1   |         |
|        | C264     | F1J1C106A059 | 10uF 16V                | 1   |         |
|        | C265     | F1H1H103A219 | 0.01uF 50V              | 1   |         |
|        | C266     | F1J1A475A039 | 4.7uF 10V               | 1   |         |
|        | C301     | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C303     | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C304     | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C305     | F1H1C105A097 | 1uF 16V                 | 1   |         |
|        | C404     | F1H1C105A097 | 1uF 16V                 | 1   |         |
|        | C406     | F1H1C105A097 | 1uF 16V                 | 1   |         |
|        | C407     | F1H1H221A748 | 220pF 50V               | 1   |         |
|        | C408     | F1H1C105A097 | 1uF 16V                 | 1   |         |
|        | C412     | F1H1C105A097 | 1uF 16V                 | 1   |         |
|        | C419     | F1H1A5640001 | 0.56uF 10V              | 1   |         |

| Safety | Ref. No. | Part No.     | Part Name & Description | Qty | Remarks |
|--------|----------|--------------|-------------------------|-----|---------|
|        | C420     | F1H1A5640001 | 0.56uF 10V              | 1   |         |
|        | C421     | F1H1H332A013 | 3300pF 50V              | 1   |         |
|        | C422     | F1H1H103A219 | 0.01uF 50V              | 1   |         |
|        | C423     | F1H1H103A219 | 0.01uF 50V              | 1   |         |
|        | C424     | F1H1C473A088 | 0.047uF 16V             | 1   |         |
|        | C425     | F1H1C224A068 | 0.22uF 16V              | 1   |         |
|        | C441     | F1J0J475A008 | 4.7uF 6.3V              | 1   |         |
|        | C442     | D0GBR00JA008 | 0 1/16W                 | 1   |         |
|        | C451     | F1H1A824A036 | 0.82uF 10V              | 1   |         |
|        | C452     | ECJ1VB1A334K | 0.33uF 10V              | 1   |         |
|        | C453     | F1H1C224A074 | 0.22uF 16V              | 1   |         |
|        | C454     | F1H1H101A230 | 100pF 50V               | 1   |         |
|        | C455     | F1H1A225A051 | 2.2uF 10V               | 1   |         |
|        | C456     | ECJ1VB1H393K | 0.039uF 50V             | 1   |         |
|        | C457     | F1H1H223A219 | 0.022uF 50V             | 1   |         |
|        | C458     | F1H1A105A025 | 1uF 10V                 | 1   |         |
|        | C459     | F1H1H101A230 | 100pF 50V               | 1   |         |
|        | C460     | F1H1H560A230 | 56pF 50V                | 1   |         |
|        | C462     | F2A1HR10A234 | 0.10uF 50V              | 1   |         |
|        | C463     | F2A1A470A204 | 47uF 10V                | 1   |         |
|        | C464     | F1J1C106A059 | 10uF 16V                | 1   |         |
|        | C465     | F1H1H103A219 | 0.01uF 50V              | 1   |         |
|        | C466     | F1J1A475A039 | 4.7uF 10V               | 1   |         |
|        | C501     | F2A1E332A204 | 3300uF 25V              | 1   |         |
|        | C510     | F1K1H105A138 | 1uF 50V                 | 1   |         |
|        | C511     | F2A1A101A204 | 100uF 10V               | 1   |         |
|        | C513     | F1J1A106A043 | 10uF 10V                | 1   |         |
|        | C514     | F1K1A1060017 | 10uF 10V                | 1   |         |
|        | C515     | F2A1C100A234 | 10uF 16V                | 1   |         |
|        | C516     | F2A1E3310051 | 330uF 25V               | 1   |         |
|        | C517     | F1K1E106A078 | 10uF 25V                | 1   |         |
|        | C518     | F1H1H104A783 | 0.1uF 50V               | 1   |         |
|        | C519     | F2A1C471B237 | 470uF 16V               | 1   |         |
|        | C520     | F1J1A106A043 | 10uF 10V                | 1   |         |
|        | C521     | F2A1E3310051 | 330uF 25V               | 1   |         |
|        | C522     | F1K1E106A078 | 10uF 25V                | 1   |         |
|        | C523     | F1H1H104A783 | 0.1uF 50V               | 1   |         |
|        | C524     | F2A1C471B237 | 470uF 16V               | 1   |         |
|        | C525     | F1J1A106A043 | 10uF 10V                | 1   |         |
|        | C526     | F2A1C100A234 | 10uF 16V                | 1   |         |
|        | C545     | F1H1C104A042 | 0.1uF 16V               | 1   |         |
|        | C551     | F2A1C221A019 | 220uF 16V               | 1   |         |
|        | C552     | F2A1H2R2A234 | 2.2uF 50V               | 1   |         |
|        | C553     | F2A1C330A234 | 33uF 16V                | 1   |         |
|        | C554     | F2A0J101A245 | 100uF 6.3V              | 1   |         |
|        | C555     | F1H1H104A013 | 0.1uF 50V               | 1   |         |
|        | C556     | F2A0J221A211 | 220uF 6.3V              | 1   |         |
|        | C557     | F2A0J220A210 | 22uF 6.3V               | 1   |         |
|        | C581     | F2A1E330A202 | 33uF 25V                | 1   |         |
|        | C582     | F1H1H392A013 | 3900pF 50V              | 1   |         |
|        | C583     | F2A0J221A245 | 220uF 6.3V              | 1   |         |
|        | C584     | ECEA1VKS470B | 47uF 35V                | 1   |         |
|        | C650     | F2A0J221A211 | 220uF 6.3V              | 1   |         |
|        | C701     | F1J2E1030004 | 0.01uF 250V             | 1   |         |
| △      | C702     | ECQU2A104MLC | 0.1uF                   | 1   |         |
|        | C703     | F2A1E1020049 | 1000uF 25V              | 1   |         |
|        | C705     | ECQE6103KF   | 10000pF 630V            | 1   |         |
|        | C706     | F2A2D3310012 | 330uF 200V              | 1   |         |
|        | C707     | ECJ1VB1H221K | 220pF 50V               | 1   |         |
|        | C708     | F1H1H472A219 | 4700pF 50V              | 1   |         |
|        | C709     | F1H1H104A013 | 0.1uF 50V               | 1   |         |
| △      | C710     | F1BAF471A013 | 470pF                   | 1   |         |
|        | C711     | F2A1V220A184 | 22uF 35V                | 1   |         |
|        | C712     | ECJ1VC1H471J | 470pF 50V               | 1   |         |
|        | C713     | F2A1H1R0A234 | 1.0uF 50V               | 1   |         |
|        | C714     | F1H1H223A219 | 0.022uF 50V             | 1   |         |
| △      | C716     | ECWH10152JV  | 1500uF                  | 1   |         |
|        | C717     | F1H1E105A116 | 1uF 25V                 | 1   |         |
| △      | C725     | ECQU2A104MLC | 0.1uF                   | 1   |         |
| △      | C727     | F1BAF471A013 | 470pF                   | 1   |         |
| △      | C728     | F1BAF471A013 | 470pF                   | 1   |         |
| △      | C729     | F1BAF1020020 | 1000pF                  | 1   |         |

| Safety | Ref. No. | Part No.     | Part Name & Description | Qty | Remarks |
|--------|----------|--------------|-------------------------|-----|---------|
| ⚠      | C730     | F1BAF1020020 | 1000pF                  | 1   |         |
|        | C733     | F1J0J106A014 | 10uF 6.3V               | 1   |         |
|        | C734     | F1H1H472A219 | 4700pF 50V              | 1   |         |
|        | C735     | F1H1H223A219 | 0.022uF 50V             | 1   |         |
| ⚠      | C736     | ECQU2A104MLC | 0.1uF                   | 1   |         |
|        | C751     | F2B2E3300001 | 33uF 250V               | 1   |         |
|        | C753     | F2A1A102A206 | 1000uF 10V              | 1   |         |
|        | C754     | F1K2J2220002 | 2200pF 630V             | 1   |         |
|        | C755     | F2A1H1R0A234 | 1.0uF 50V               | 1   |         |
|        | C756     | F1H1H104A013 | 0.1uF 50V               | 1   |         |
|        | C757     | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C758     | F1H1H104A013 | 0.1uF 50V               | 1   |         |
|        | C759     | F2A1C102A019 | 1000uF 16V              | 1   |         |
|        | C805     | F1H1H220A004 | 22pF 50V                | 1   |         |
|        | C806     | F1H1H220A004 | 22pF 50V                | 1   |         |
|        | C807     | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C808     | F1H1C104A042 | 0.1uF 16V               | 1   |         |
|        | C810     | F1H1H221A748 | 220pF 50V               | 1   |         |
|        | C811     | F1H1H221A748 | 220pF 50V               | 1   |         |
|        | C812     | F1H1H221A748 | 220pF 50V               | 1   |         |
|        | C813     | F1H1H472A219 | 4700pF 50V              | 1   |         |
|        | C814     | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C815     | ECJ1VB1H681K | 680pF 50V               | 1   |         |
|        | C816     | ECJ1VB1H681K | 680pF 50V               | 1   |         |
|        | C817     | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C825     | F1H1C105A097 | 1uF 16V                 | 1   |         |
|        | C826     | F1H1H103A219 | 0.01uF 50V              | 1   |         |
|        | C827     | F2A1C100A234 | 10uF 16V                | 1   |         |
|        | C828     | F2A0J101A245 | 100uF 6.3V              | 1   |         |
|        | C853     | F1J0J106A020 | 10uF 6.3V               | 1   |         |
|        | C871     | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C872     | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C873     | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C874     | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C875     | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C876     | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C877     | F2A1A220A204 | 22uF 10V                | 1   |         |
|        | C922     | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C951     | F1H1C104A042 | 0.1uF 16V               | 1   |         |
|        | C952     | F1H1C104A042 | 0.1uF 16V               | 1   |         |
|        | C1001    | F1H1H104A013 | 0.1uF 50V               | 1   |         |
|        | C1002    | F1H1H104A013 | 0.1uF 50V               | 1   |         |
|        | C1003    | F1H1H104A013 | 0.1uF 50V               | 1   |         |
|        | C1004    | F1H1H104A013 | 0.1uF 50V               | 1   |         |
|        | C6801    | F2A1V220A184 | 22uF 35V                | 1   |         |
|        | C6820    | F1H1H103A219 | 0.01uF 50V              | 1   |         |
|        | C6821    | F1H1H221A748 | 220pF 50V               | 1   |         |
|        | C6822    | F1H1H221A748 | 220pF 50V               | 1   |         |
|        | C6823    | F1H1H221A748 | 220pF 50V               | 1   |         |
|        | C6824    | F1H1H103A219 | 0.01uF 50V              | 1   |         |
|        | C6825    | ECA1AAK220XB | 22uF 10V                | 1   |         |
|        | C6826    | F2A1V220A184 | 22uF 35V                | 1   |         |
|        | C6827    | F1H1H104A783 | 0.1uF 50V               | 1   |         |
|        | C6828    | F2A1V220A184 | 22uF 35V                | 1   |         |
|        | C6829    | F2A1V220A184 | 22uF 35V                | 1   |         |
|        | C7102    | F1H1A474A025 | 0.47uF 10V              | 1   |         |
|        | C7107    | F1H1H223A219 | 0.022uF 50V             | 1   |         |
|        | C7142    | F1H1H332A013 | 3300pF 50V              | 1   |         |
|        | C7154    | F1H1C104A042 | 0.1uF 16V               | 1   |         |
|        | C7155    | F1H1C104A042 | 0.1uF 16V               | 1   |         |
|        | C7161    | F1H1C104A042 | 0.1uF 16V               | 1   |         |
|        | C7164    | ECJ2FF1A106Z | 10uF 10V                | 1   |         |
|        | C7165    | ECJ2FF1A106Z | 10uF 10V                | 1   |         |
|        | C7166    | F1H1H103A219 | 0.01uF 50V              | 1   |         |
|        | C7203    | F2A0J221A200 | 220uF 6.3V              | 1   |         |
|        | C7204    | F1H1C104A042 | 0.1uF 16V               | 1   |         |
|        | C7216    | ECJ1VB1H681K | 680pF 50V               | 1   |         |
|        | C7217    | F1H1C104A042 | 0.1uF 16V               | 1   |         |
|        | C7218    | ECJ1VB1C823K | 0.082uF 16V             | 1   |         |
|        | C7221    | ECJ1VC1H150J | 15pF 50V                | 1   |         |
|        | C7222    | ECJ1VC1H150J | 15pF 50V                | 1   |         |
|        | C7223    | F2A1H4R70037 | 4.7uF 50V               | 1   |         |
|        | C7225    | F1H1H102A219 | 1000pF 50V              | 1   |         |

| Safety | Ref. No. | Part No.     | Part Name & Description | Qty | Remarks |
|--------|----------|--------------|-------------------------|-----|---------|
|        | C7226    | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C7227    | ECA1HAK010XI | 1uF 50V                 | 1   |         |
|        | C7228    | ECA1HAK010XI | 1uF 50V                 | 1   |         |
|        | C7230    | F1H1C104A042 | 0.1uF 16V               | 1   |         |
|        | C7231    | F2A0J221A200 | 220uF 6.3V              | 1   |         |
|        | C7232    | F2A0J221A200 | 220uF 6.3V              | 1   |         |
|        | C7233    | F1H1C104A008 | 0.1uF 16V               | 1   |         |
|        | C7234    | F1H1C104A042 | 0.1uF 16V               | 1   |         |
|        | C7235    | F2A1C100A133 | 10uF 16V                | 1   |         |
|        | C7241    | F1H1H102A219 | 1000pF 50V              | 1   |         |
|        | C7243    | F1H1C104A008 | 0.1uF 16V               | 1   |         |
|        | C7244    | F1H1C153A001 | 0.015uF 16V             | 1   |         |
|        | C7253    | F1H1H471A219 | 470pF 50V               | 1   |         |
|        | C7263    | F1H1C104A042 | 0.1uF 16V               | 1   |         |
|        | C7264    | F1H1C104A042 | 0.1uF 16V               | 1   |         |
|        | C7315    | F1H1A474A025 | 0.47uF 10V              | 1   |         |
|        | C7334    | ECEA1AKA221I | 220uF 10V               | 1   |         |
|        | C7335    | F1H1C104A008 | 0.1uF 16V               | 1   |         |
|        | C7338    | F1H1C563A055 | 0.056uF 16V             | 1   |         |
|        | C7339    | F1H1C183A001 | 0.018uF 16V             | 1   |         |
|        | C7352    | F1H1C183A001 | 0.018uF 16V             | 1   |         |
|        | C7401    | F1H1C104A042 | 0.1uF 16V               | 1   |         |
|        | C7402    | F1H1C104A042 | 0.1uF 16V               | 1   |         |
|        | C7601    | ECEA0JKA330I | 33uF 6.3V               | 1   |         |
|        | C7613    | F1H1C104A042 | 0.1uF 16V               | 1   |         |
|        | C7614    | F2A0J101A198 | 100uF 6.3V              | 1   |         |
|        | C7626    | F1H1C104A042 | 0.1uF 16V               | 1   |         |
|        | C7670    | F1H1C104A042 | 0.1uF 16V               | 1   |         |