

Service Manual

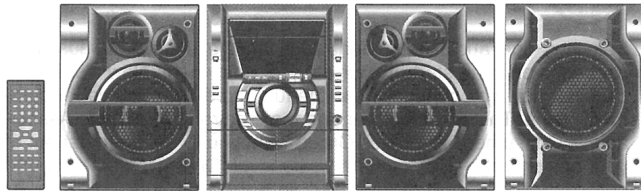
CD Stereo System



SA-AK633P

Colour

(K)... Black Type



Remote SB-AK630 SA-AK633 SB-AK630 SB-WAK630
Control

Specifications

■ AMPLIFIER SECTION

RMS output power	
THD 10%, both channels driven	
1 kHz	
(Low channel)	70 W per channel (5 Ω)
10 kHz	
(High channel)	65 W per channel (5 Ω)
80 Hz	
(Subwoofer channel)	160 W (8 Ω)
Total power output	430 W
FTC output power	
THD 10%, both channels driven	
100 Hz-3 kHz	
(Low channel)	55 W per channel (5 Ω)
3 kHz-10 kHz	
(High channel)	53 W per channel (5 Ω)
50 Hz-100 Hz	
(Subwoofer channel)	130 W (8 Ω)
Total FTC power	346 W

■ FM/AM TUNER, TERMINALS SECTION

Preset station	FM 15 stations
	AM 15 stations
Frequency Modulation (FM)	
Frequency range	87.9 - 107.9 MHz (200 kHz steps)
	87.5 - 108.0 MHz (100 kHz steps)
Sensitivity	2.5 μ V (IHF)
S/N 26 dB	2.2 μ V
Antenna terminal(s)	75 Ω (unbalanced)

Amplitude Modulation (AM)	
Frequency range	520 - 1710 kHz (10 kHz steps)
Sensitivity	
S/N 20 dB (at 1000 kHz)	560 μ V/m
Audio performance (Amplifier)	
Input sensitivity/Input impedance	
Aux	250 mV, 14.7 k Ω
Phone jack	
Terminal	Stereo, 3.5 mm (1/8") jack

■ CASSETTE DECK SECTION

Track system	4 track, 2 channel
Heads	
Record/playback	Solid permalloy head
Erasure	Double gap ferrite head
Motor	DC servo motor
Recording system	AC bias 100 kHz
Erasing system	AC erase 100 kHz
Tape speed	4.8 cm/s (1-7/8 ips)
Overall frequency response (+3 dB, -6 dB at DECK OUT)	
NORMAL	35 Hz - 14 kHz
S/N ratio	50 dB (A weighted)
Wow and flutter	0.18 % (WRMS)
Fast forward and rewind time	Approx. 120 seconds with C-60 cassette tape

■ DISC SECTION

Discs played [8 cm (3") or 12 cm (5")]	
(1) CD-Audio (CD-DA)	
(2) CD-R/RW (CD-DA, MP3 formatted disc)	

Panasonic

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(3) MP3	
Bit rate	
MP3	32 kbps - 320 kbps
Sampling frequency	
MP3	32 kHz, 44.1 kHz, 48 kHz
CD	44.1 kHz
Decoding	16 bit linear
Digital filter	8 fs
D/A converter	MASH (1 bit DAC)
Pickup	
Wavelength	780 nm
Beam Source	Semiconductor laser
Audio output (Disc)	
Number of channels	2 (Stereo) (FL,FR)

■ GENERAL

Power Supply	AC 120 V, 60Hz
--------------	----------------

Power consumption	255 W
Power consumption in standby mode	0.38 W
Dimensions (W x H x D)	250 x 330 x 341 mm (9-27/32" x 13" x 13-7/16")
Mass	7.1 kg (15.7 lb.)
Operating temperature range	+5 to +35°C (+41 to +95°F)
Operating humidity range	5 to 90% RH (no condensation)
■ SYSTEM	
SC-AK633 (P)	Music center: SA-AK633 (P)
	Speaker: SB-AK630 (P)
	Subwoofer: SB-WAK630 (P)

Notes:

1. Specifications are subject to change without notice. Mass and dimensions are approximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.

WARNING

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

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1 Safety Precaution

(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. Insulation Resistance Test

1. Unplug the power cord and short the two prongs of the plug with a jumper wire.
2. Turn on the power switch.
3. Measure the resistance value with ohmmeter between the jumper AC plug and each exposed metal cabinet part, such as screwheads, antenna, control shafts, handle brackets, etc. Measure the resistance value with ohmmeter between the jumper AC plug and each exposed metal cabinet part, such as screwheads, antenna, control shafts, handle brackets, etc. Equipment with antenna terminals should read between $2.7\text{M}\Omega$ and $3.9\text{M}\Omega$ to all exposed parts*. (Fig.1)
Equipment without antenna terminals should read approximately infinity to all exposed parts. (Fig.2)
*Note : Some exposed parts may be isolated from the chassis by design. These will read infinity.
4. If the measurement is outside the specified limits, there is a possibility of a shock hazard. The equipment should be repaired and re-checked before it is returned to the customer.

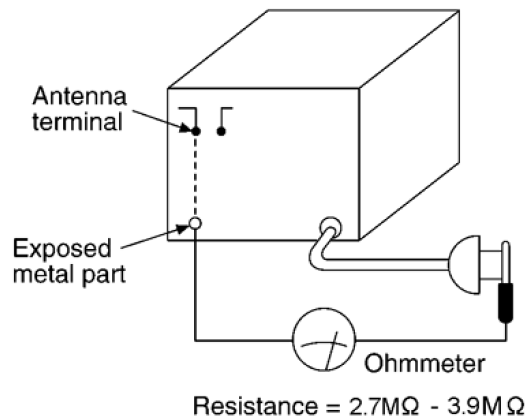


Fig.1

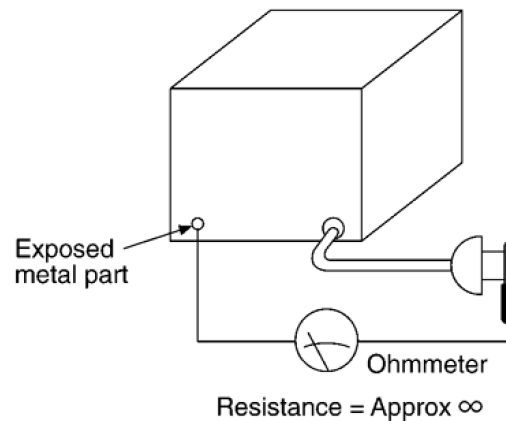


Fig.2

1.1.1. Caution for fuse replacement

(For English)

CAUTION:

Replace with the same type fuse:
(Manufacturer: LITTELFUSE, INC., Type: F1, 4A, 125V)

(For Canadian French)

ATTENTION:

Utiliser un fusible de rechange de même type:
(Manufacturer: LITTELFUSE, INC., Type: F1, 4A, 125V)

2 Before Repair and Adjustment

Disconnect AC power, discharge Power Supply Capacitors C5820 and C5840 through a 10Ω, 5W resistor to ground.
DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may destroy solid state devices.
After repairs are completed, restore power gradually using a variac, to avoid overcurrent.

Current consumption at AC 120V, 60 Hz in NO SIGNAL mode (volume min at CD mode) should be ~600mA.

3 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.

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

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

1. Immediately before handling any semiconductor component or semiconductor-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 to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminium foil or comparable conductive material).

7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

Caution

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

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

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by $\triangle$ in the schematic 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.

5 Handling the Lead-free Solder

5.1. About lead free solder (PbF)

Distinction of PbF P.C.B.:

P.C.B.s (manufactured) using lead free solder will have a PbF stamp on the P.C.B.

Caution:

- Pb free solder has a higher melting point than standard solder; Typically the melting point is 50 - 70°F (30 - 40°C) higher. Please use a high temperature soldering iron. In case of soldering iron with temperature control, please set it to 700 ± 20°F (370 ± 10°C).
- Pb free solder will tend to splash when heated too high (about 1100°F/600°C).
- When soldering or unsoldering, please completely remove all of the solder on the pins or solder area, and be sure to heat the soldering points with the Pb free solder until it melts enough.

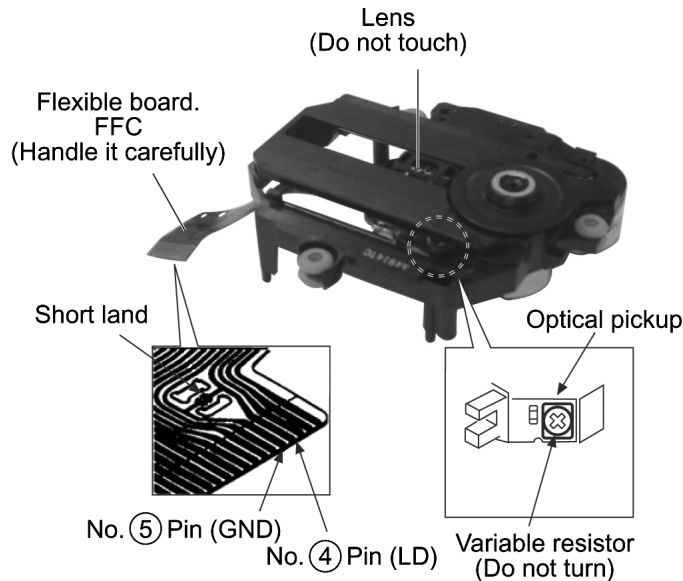
6 Handling Precautions For Traverse Deck

The laser diode in the traverse deck (optical pickup) may break down due to potential difference caused by static electricity of clothes or human body.

So, be careful of electrostatic breakdown during repair of the traverse deck (optical pickup).

· Handling of traverse deck (optical pickup)

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



Grounding for electrostatic breakdown prevention

1. Human body grounding

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

2. Work table grounding

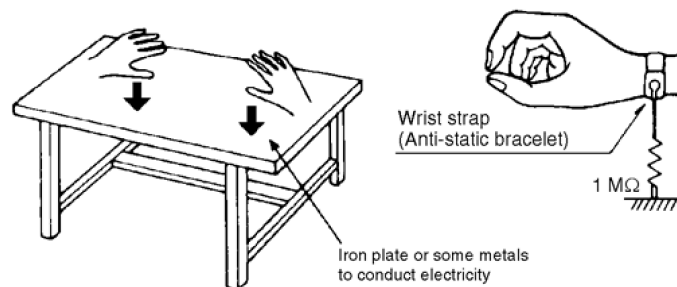
Put a conductive material (sheet) or steel sheet on the area where the traverse deck (optical pickup) is place, and ground the sheet.

Caution :

The static electricity of your clothes will not be grounded through the wrist strap. So, take care not to let your clothes touch the traverse deck (optical pickup).

Caution when replacing the Traverse Deck

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



7 Precaution of Laser Diode

CAUTION:

This unit utilizes a class 1 laser.

Invisible laser radiation is emitted from the optical pickup lens.

Wavelength: 780nm

When the unit is turned on:

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

CAUTION!

THIS PRODUCT UTILIZES A LASER.

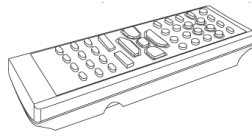
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

n Use of caution label (Except for U.S.A.)

CAUTION	- INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM. IEC60825-1 / Class 3b
VARNING	- OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRÄKTA EJ STRÅLEN.
ADVARSEL	- USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.
ADVARSEL	- USYNLIG LASERSTRÅLING NÄR DEKSEL ÅPNES. UNNGÅ EKSPONERING FOR STRÅLEN.
VARO!	- AVATTAESSA OLET NÄKYMÄTÖNTÄ, ALTIINA LASERSÄTEILYLLE. ÄLÄ KATSO SATEESEEN.
VORSICHT	- UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.
ATTENTION	- RAYONNEMENT LASER INVISIBLE EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU.
注意	- 打开时有不可见激光辐射, 避免激光束照射。
注意	- ここを開くと不可視レーザー光が出ます。 ビームを見たり、触れたりしないで下さい。

Inside of product

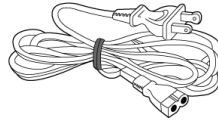
8 Accessories



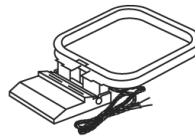
Remote Control



FM Antenna



AC Cord

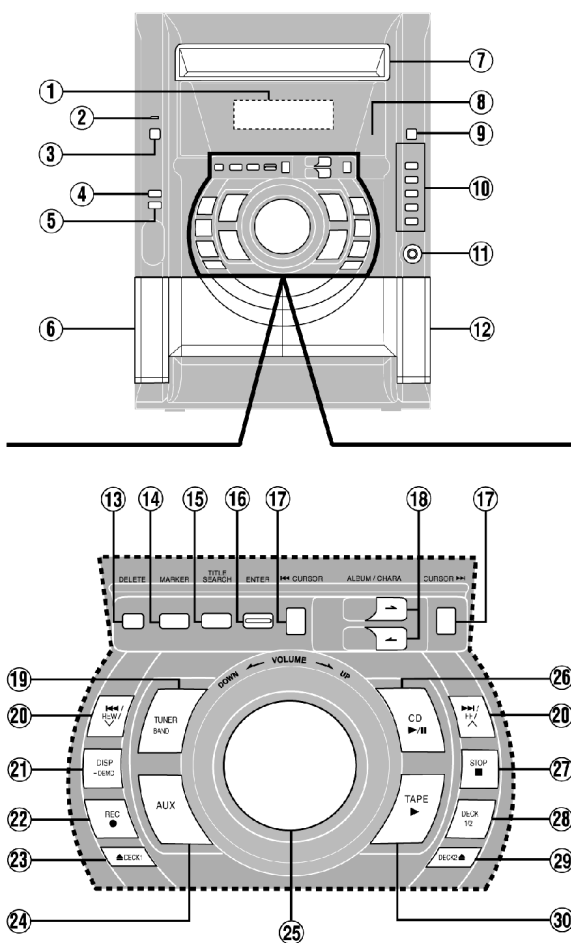


AM Loop Antenna

9 Operation Procedures

Front panel controls

Main unit

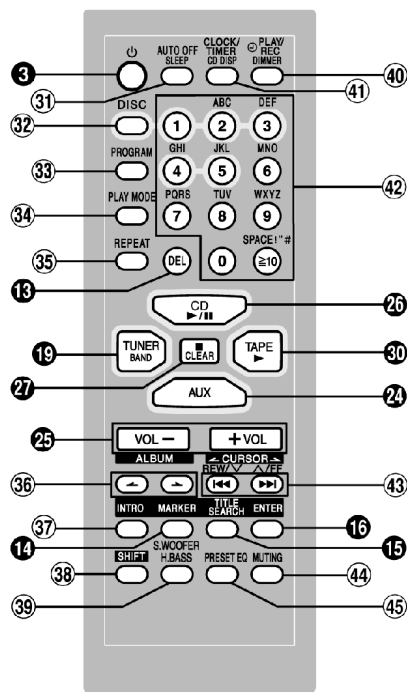


- ① Display
- ② AC supply indicator [AC IN]
This indicator lights when the unit is connected to the AC power supply.
- ③ Standby/on switch [⏻/I, POWER]
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.
- ④ H.BASS button [H.BASS]
- ⑤ Subwoofer button [SUBWOOFER]
- ⑥ Deck 1 cassette holder
- ⑦ Disc tray
- ⑧ Remote control signal sensor
- ⑨ CD tray open/close button [⏏, OPEN/CLOSE]
- ⑩ CD direct play buttons [1 – 5]
- ⑪ Headphone jack [PHONES]
- ⑫ Deck 2 cassette holder

Center console

- ⑬ Delete button [DELETE]
- ⑭ Marker memory/recall button [MARKER]
- ⑮ Title search mode select button [TITLE SEARCH]
- ⑯ Enter button [ENTER]
- ⑰ Cursor buttons [◀ CURSOR, CURSOR ▶]
- ⑱ Album skip, character buttons [⏮, ALBUM/CHARA, ⏭, ALBUM/CHARA]
- ⑲ Tuner/band select button [TUNER, BAND]
- ⑳ CD skip/search, tape fast-forward/rewind, tune/preset channel select, time adjust buttons [◀◀/REW/V, ▶▶/FF/Δ]
- ㉑ Display, demonstration button [DISP, -DEMO]
- ㉒ Record button [●, REC]
- ㉓ Deck 1 open button [⏏ DECK1]
- ㉔ AUX button [AUX]
- ㉕ Volume control [VOLUME DOWN, UP]
- ㉖ CD play/pause button [▶/II, CD]
- ㉗ Stop/program clear button [■, STOP]
- ㉘ Deck select button [DECK 1/2]
- ㉙ Deck 2 open button [DECK2 ⏏]
- ㉚ Tape play button [▶, TAPE]

Remote control



Buttons such as ③ function in exactly the same way as the buttons on the main unit.

- ③ Sleep timer + Auto off button [SLEEP, AUTO OFF]
- ③① Disc button [DISC]
- ③② Program button [PROGRAM]
- ③③ Play mode select button [PLAY MODE]
Use this for selecting CD play mode, tune mode, FM mode and deck select.
- ③④ Repeat button [REPEAT]
- ③⑤ Album skip buttons [⏮, ⏭, ALBUM]
- ③⑥ Intro button [INTRO]
- ③⑦ Shift button [SHIFT]
To use functions labeled in orange *:
While pressing [SHIFT], press the corresponding button.
* For buttons [AUTO OFF], [CLOCK/TIMER], [⏏PLAY/REC] and [S.WOOFER]
- ③⑧ H.BASS + Subwoofer button [H.BASS, S.WOOFER]
- ③⑨ Dimmer + Play timer/record timer button [DIMMER, ⏏PLAY/REC]
- ③⑩ CD display + Clock/timer button [CD DISP, CLOCK/TIMER]
- ③⑪ Numbered, character buttons [⏮, 1–9, 0, A–Z, SPACE!™#]
- ③⑫ CD skip/search, tape fast-forward/rewind, tune/preset channel select, time adjust, cursor buttons [◀◀, REW/V, ⏮ CURSOR, ▶▶, Δ/FF, CURSOR ▶]
- ③⑬ Muting button [MUTING]
- ③⑭ Preset EQ select button [PRESET EQ]

Disc information

Disc selection

This unit can play MP3 and CD-DA (digital audio) format audio CD-R and CD-RW that have been finalized (a process that enables CD-R/CD-RW players to play audio CD-R and CD-RW) upon completion of recording.
It may not be able to play some CD-R or CD-RW due to the condition of the recording.

Disc type	Logo	Indication used in instructions
Audio CD		
CD-R/RW	—	 MP3 (Depending on the recording format → see above)

Do not:

- use irregularly shaped discs.
- attach extra labels and stickers.
- use discs 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 accessory.
- write anything on the disc.
- clean discs with liquids. (Wipe with a soft, dry cloth.)
- use discs printed with label printers available on the market.



To prevent damage

Always observe the following points:

- Load only 1 disc on the tray.
- Always stop the changer before loading or changing discs. Do not change discs while a disc is playing.
- Set the system on a flat, level surface.
- Always unload all discs before moving the unit.

Do not:

- set the unit on top of magazines, inclined surfaces, etc.
- move the unit while a tray is opening/closing, or when loaded.
- put anything except a disc in the tray.
- use cleaning discs or discs which are badly warped or cracked.
- disconnect the AC power supply cord from the household AC outlet during disc changing operation.

MP3 information

This unit can play MP3 files recorded on CD-R/RW with a computer. Files are treated as tracks and folders are treated as albums. This unit can access up to 999 tracks, 255 albums and 20 sessions.

When making MP3 files to play on this unit

Disc format

Discs must conform to ISO9660 level 1 or 2 (except for extended formats).

File format

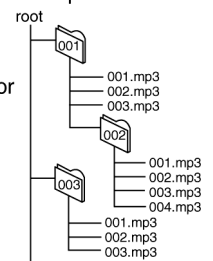
MP3 files must have the extension “.MP3” or “.mp3”.

To play in a certain order

Prefix the folder and file names with 3-digit numbers in the order you want to play them. Files may not be recorded in numbered order if the prefixes have different numbers of digits. For example: 1track.mp3, 2track.mp3, 10track.mp3. However, some writing software may also cause recording to occur in a different order.

MPEG Layer-3 audio decoding technology licensed from Fraunhofer IIS and Thomson multimedia.

Example:



Limitations on MP3 play

- This unit is not compatible with packet-write format.
- When both MP3 and CD-DA data is recorded on the disc over a number of sessions:
 - If the first session contains MP3 recordings, the unit will play from the MP3 made in that session till the session before the first CD-DA recordings.
 - If the first session contains CD-DA recordings, the unit will play only the recordings made in that session. The subsequent sessions will be ignored.
- Some MP3 may not be played due to the condition of the disc or recording.
- Recordings will not necessarily be played in the order you recorded them.
- Lower case letters will be displayed as upper case.

10 Disassembly and Assembly of Main Component

“ATTENTION SERVICER”

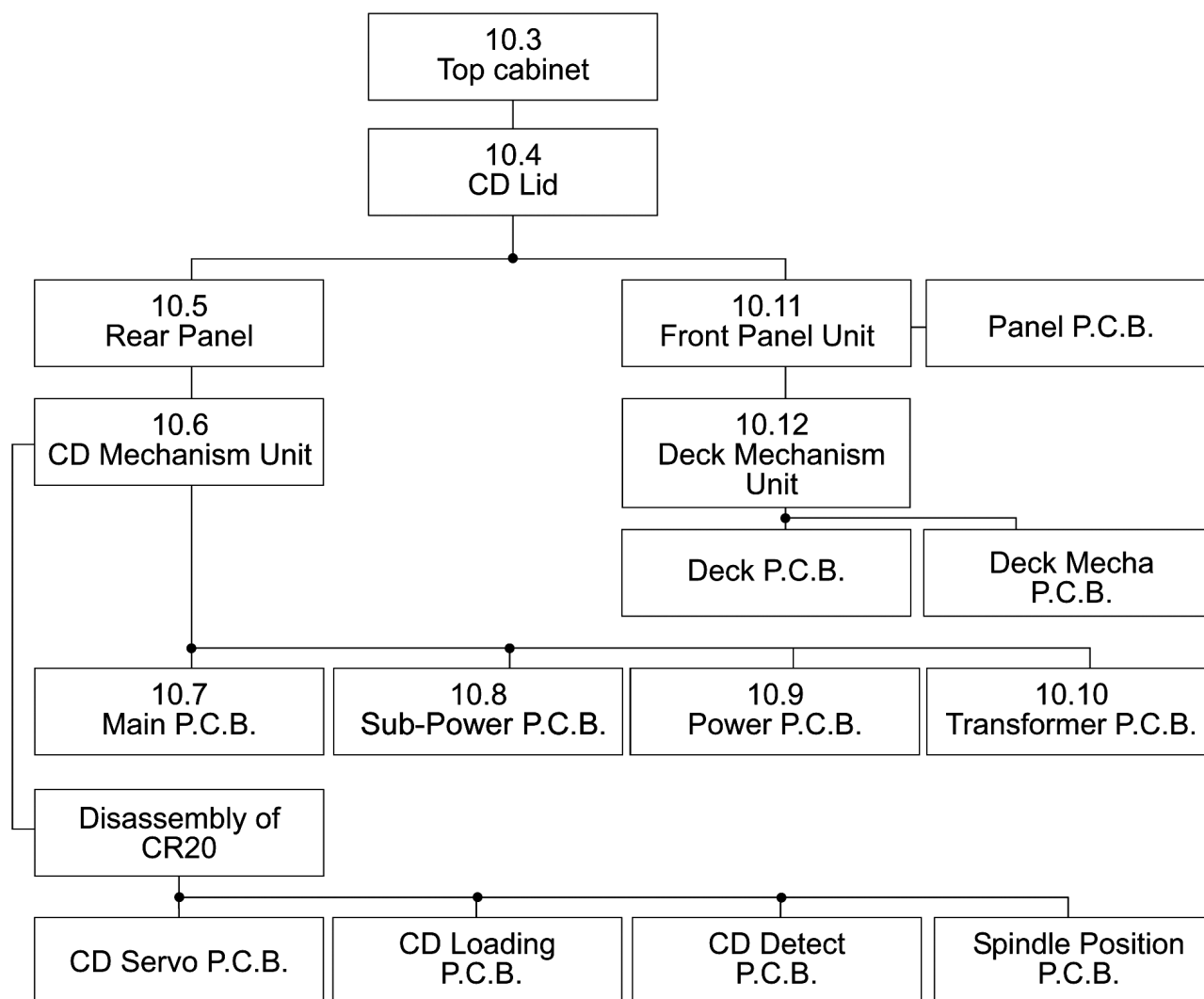
Some chassis components may have sharp edges. Be careful when disassembling and servicing.

1. This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
2. For reassembly after operation checks or replacement, reverse the respective procedures.
Special reassembly procedures are described only when required.
3. Select items from the following index when checks or replacement are required.
4. Refer to the Parts No. on the page of “Parts Location and Replacement Parts List” (Section 23), if necessary.

10.1. Disassembly flow chart

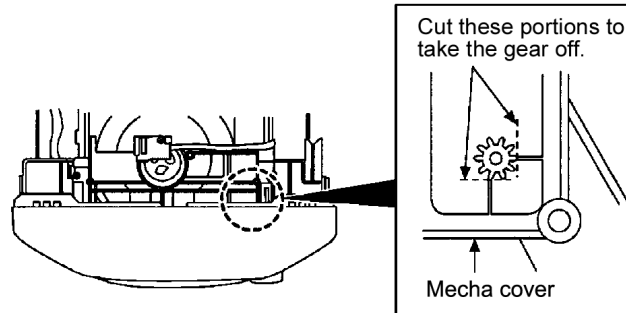
The following chart is the procedure for disassembling the casing and inside parts for internal inspection when carrying out the servicing.

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

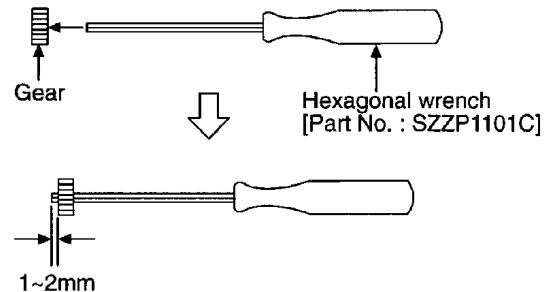


10.2. Gear for servicing (jig) Information

1. This unit has a gear which is used for checking items (Open/Close of disc tray, up/down operation of traverse unit by manually) when servicing.
 2. For preparation of gear (for servicing), perform the procedures as follows.
 3. In case of re-servicing the same set, the "gear for servicing" may has been taken off because it has been used. The "gear for servicing" must be stored.
- Remove the gear provided with mecha cover as shown below.



- Insert the hexagonal screwdriver (2mm) into the gear, and then project the tip of screwdriver for 1~ 2 mm in length.

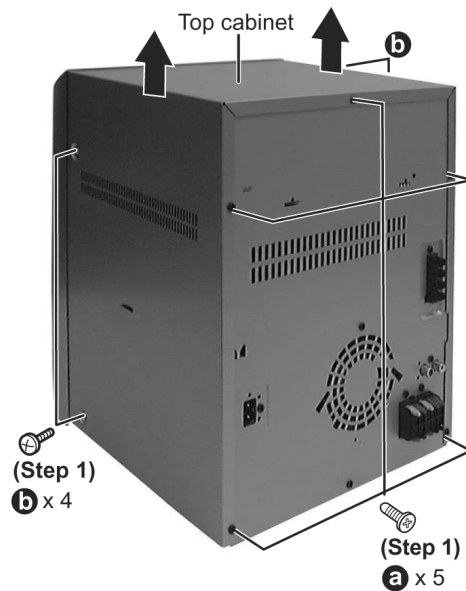


(Preparation of gear as jig is completed.)

10.3. Disassembly of Top Cabinet

Step 1 Remove 2 screws at each side and 5 screws at rear panel.

Step 2 Lift up both sides of the top cabinet, push the top cabinet towards the rear and remove the top cabinet.



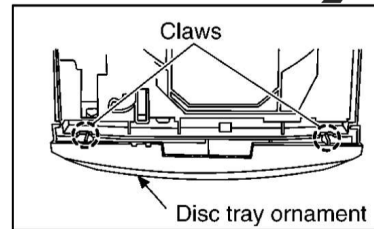
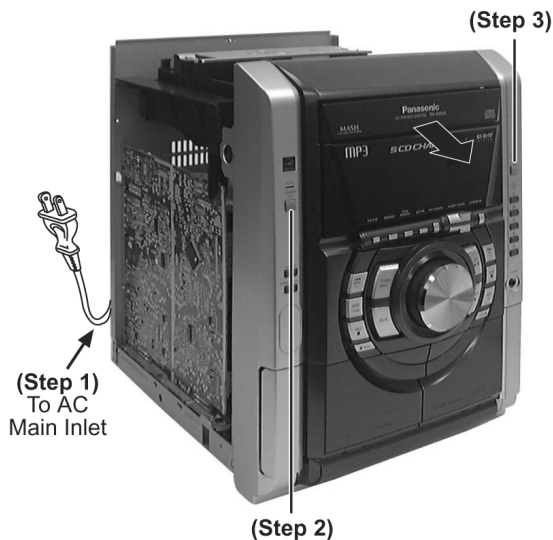
10.4. Disassembly of CD Lid

(The CD changer unit can be removed after the CD Lid is removed)

- Follow the (Step 1) - (Step 2) of Item 10.3 - Disassembly of Top Cabinet
- Opening the disc tray automatically (Using Power Supply)

Step 1 Connect the AC power cord.

Step 2 Press the POWER button to power up the main unit.



Step 4 Release the 2 claws, and then remove the CD Lid.

Step 5 Press the OPEN/CLOSE button, the disc tray will close.

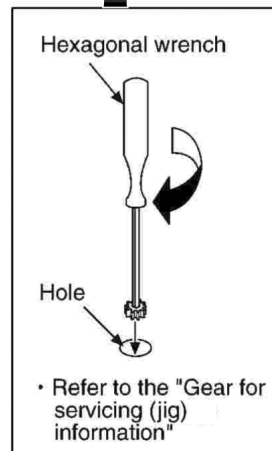
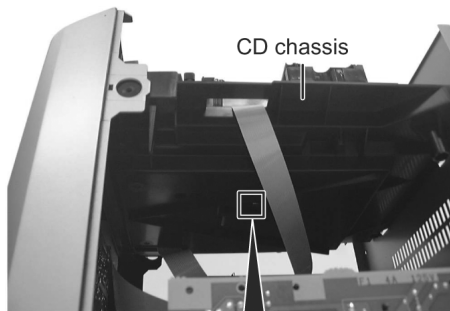
Step 3 Press the OPEN/CLOSE button, the disc tray will open automatically.



(Step 6)

Step 6 Press the POWER button to turn the power off.

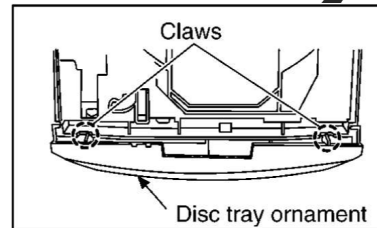
· [Opening the disc tray manually (Using service tools)]



Step 1 Insert the gear tool into the hole on the underside of CD chassis and then rotate in the direction of arrow. The disc tray will be opened.



Step 2 Release the 2 claws, and then remove the CD lid cover.



Step 3 Repeat Step 2 but rotate the gear tools in anti-clockwise direction.

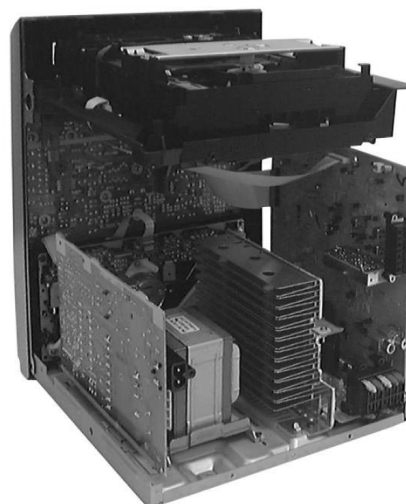
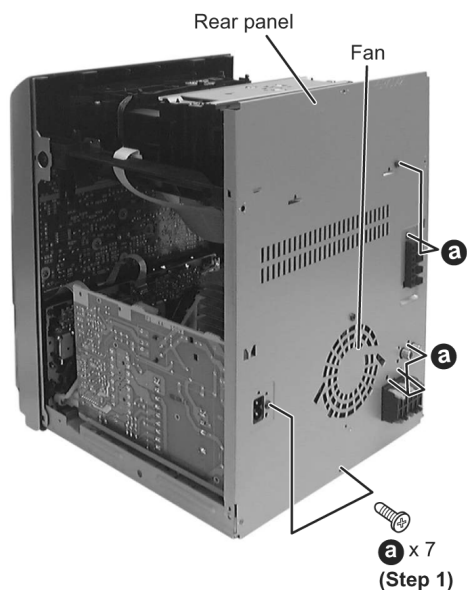


Step 4 The disc tray will be closed.

10.5. Disassembly of Rear Panel

· Follow the (Step 1) - (Step 2) of Item 10.3 - Disassembly of Top Cabinet

Step 1 Remove 7 screws and disconnect wire CN2810 (Fan) at rear cabinet as shown.

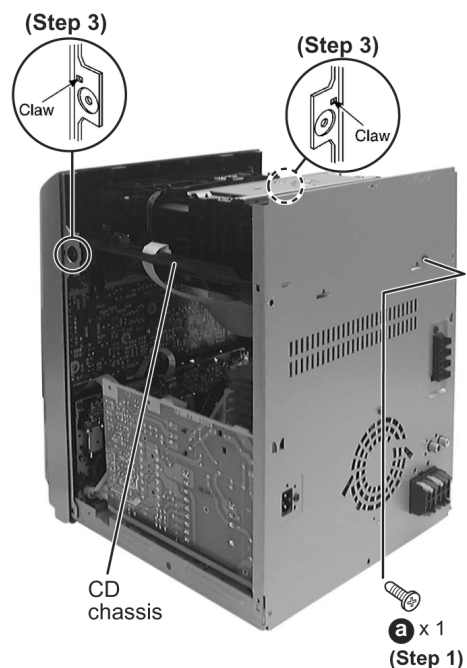


10.6. Disassembly of CD Mechanism Unit

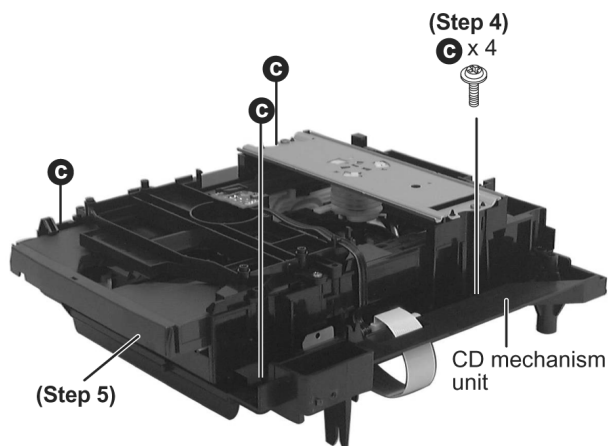
· Follow the (Step 1) - (Step 2) of Item 10.3 - Disassembly of Top Cabinet

Step 1 Remove one screw at rear panel.

Step 2 Detach the FFC wires (CN2801 & CN2805).



Step 3 Release the claws of both ends, and then lift up the CD Mechanism Unit.

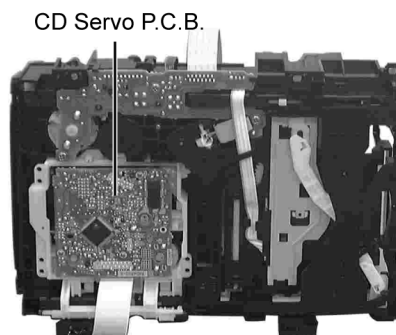


Step 4 Remove 4 screws.

Step 5 Remove the CD chassis.

Step 6 Lay the CD mechanism unit as shown.

· For disassembly of CD mechanism unit, please refer to Section 10.13 of this manual.

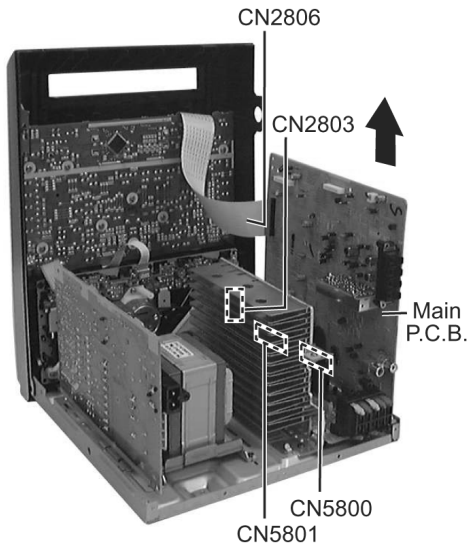


10.7. Disassembly of Main P.C.B.

- Follow the (Step 1) - (Step 2) of Item 10.3 - Disassembly of Top Cabinet
- Follow the (Step 1) - (Step 6) of Item 10.4 - Disassembly of CD Lid
- Follow the (Step 1) of Item 10.5 - Disassembly of Rear Panel
- Follow the (Step 1) - (Step 3) of Item 10.6 - Disassembly of CD Mechanism Unit

Step 1 Disconnect FFC wires CN2803 & CN2806 from Main P.C.B.

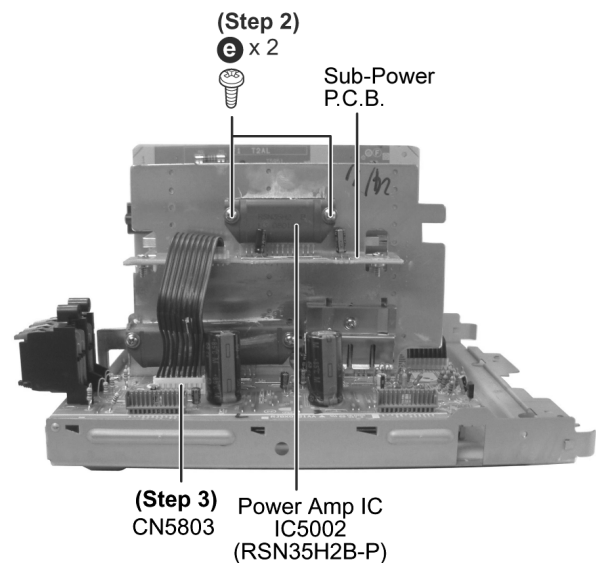
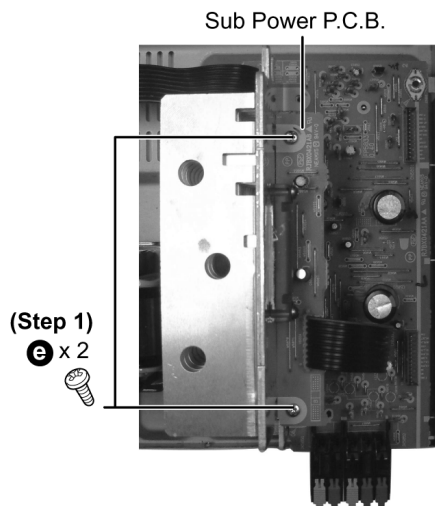
Step 2 Lift up Main P.C.B. by disconnecting connectors CN5800 & CN5801 as arrow shown above.



10.8. Disassembly of Sub-Power P.C.B.

- Follow the (Step 1) - (Step 2) of Item 10.3 - Disassembly of Top Cabinet
- Follow the (Step 1) - (Step 6) of Item 10.4 - Disassembly of CD Lid
- Follow the (Step 1) of Item 10.5 - Disassembly of Rear Panel
- Follow the (Step 1) - (Step 3) of Item 10.6 - Disassembly of CD Mechanism Unit
- Follow the (Step 1) - (Step 2) of Item 10.7 - Disassembly of Main P.C.B.

Step 1 Remove the 2 screws fixed at Sub Power P.C.B..



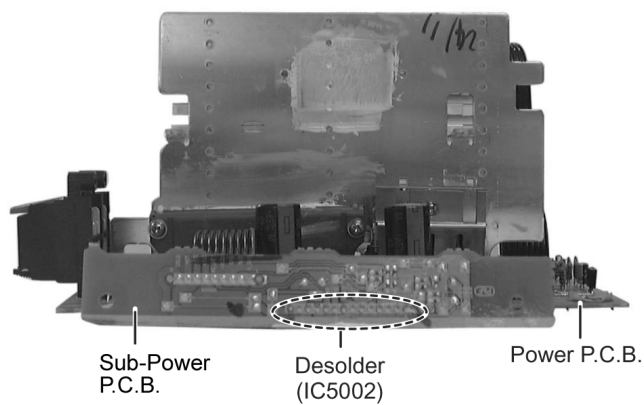
Step 2 Remove 2 screws at Power Amplifier IC.

Step 3 Disconnect connector CN5803

Step 4 Lift up the Sub Power P.C.B. to remove it.

• Replacement of Power Amplifier IC

Step 1 Desolder the terminals of Power Amplifier IC and replace the component.

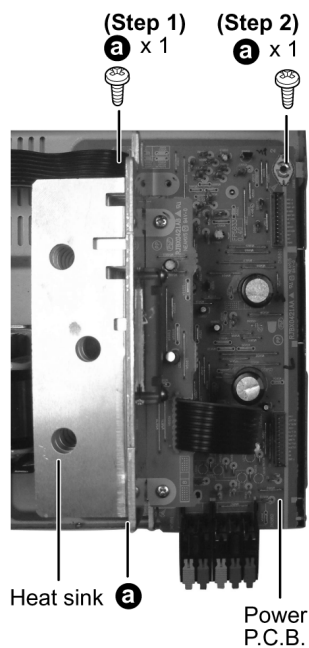


10.9. Disassembly of Power P.C.B.

- Follow the (Step 1) - (Step 2) of Item 10.3 - Disassembly of Top Cabinet
- Follow the (Step 1) - (Step 6) of Item 10.4 - Disassembly of CD Lid
- Follow the (Step 1) of Item 10.5 - Disassembly of Rear Panel
- Follow the (Step 1) - (Step 3) of Item 10.6 - Disassembly of CD Mechanism Unit
- Follow the (Step 1) - (Step 2) of Item 10.7 - Disassembly of Main P.C.B.

Step 1 Remove the 2 screws fixed at heat sink.

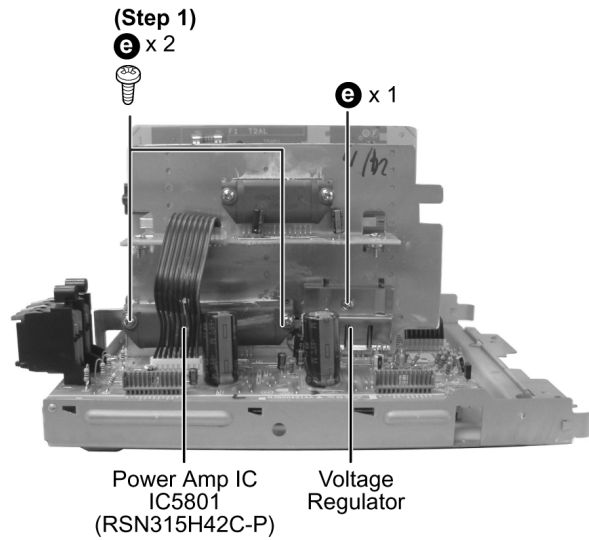
Step 2 Remove 1 screw fixed at Power P.C.B..



Note:

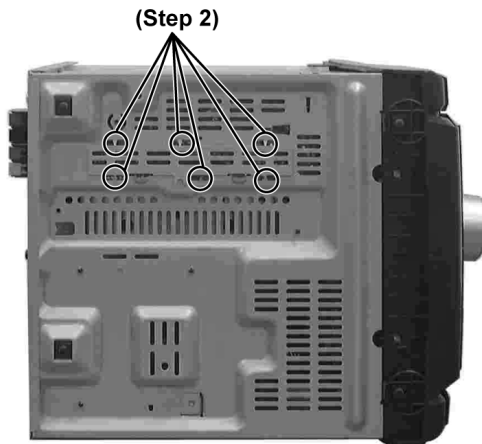
Insulate the Power P.C.B. with insulation material to avoid short circuit.

· Replacement of the Power Amplifier IC/ Voltage Regulator



Step 1 Remove 2 screws fixed to the Power Amplifier IC and 1 screw to Voltage Regulator.

Step 2 Break the joint with a metal cutter as shown below.



Step 3 Unsolder the terminals of Power Amp IC, transistor and replace the components.

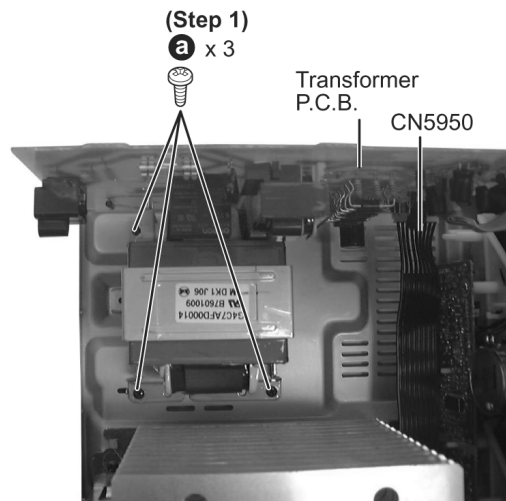


Step 4 Fix back the cut portion with a screw as shown.

10.10. Disassembly of Transformer P.C.B.

- Follow the (Step 1) - (Step 2) of Item 10.3 - Disassembly of Top Cabinet
- Follow the (Step 1) - (Step 6) of Item 10.4 - Disassembly of CD Lid
- Follow the (Step 1) of Item 10.5 - Disassembly of Rear Panel
- Follow the (Step 1) - (Step 3) of Item 10.6 - Disassembly of CD Mechanism Unit

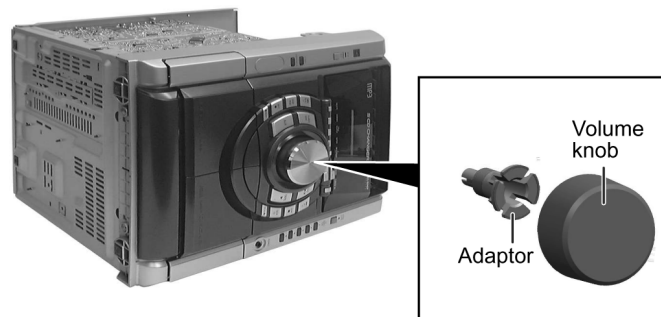
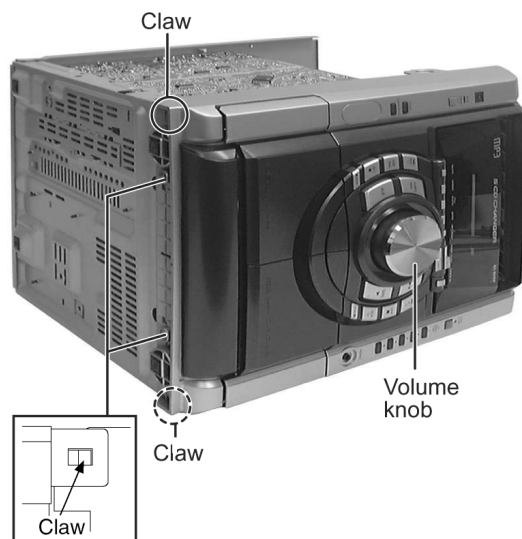
Step 1 Remove 3 screws, disconnect connector CN5950.



10.11. Disassembly of Front Panel Unit

- Follow the (Step 1) - (Step 2) of Item 10.3 - Disassembly of Top Cabinet
- Follow the (Step 1) - (Step 6) of Item 10.4 - Disassembly of CD Lid
- Follow the (Step 1) of Item 10.5 - Disassembly of Rear Panel
- Follow the (Step 1) - (Step 3) of Item 10.6 - Disassembly of CD Mechanism Unit

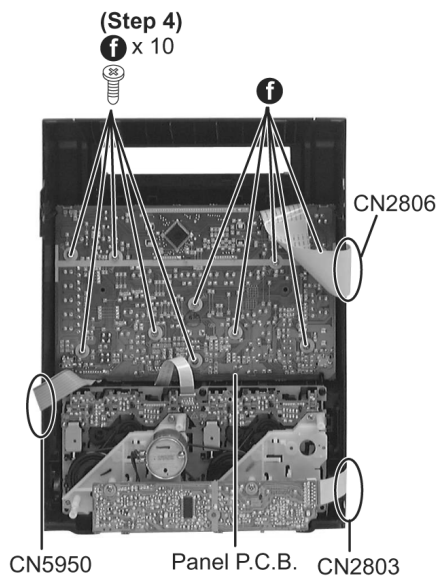
Step 1 Lay the unit as shown below.



Step 3 Remove volume knob and adaptor.

· Disassembly of Panel P.C.B.

Step 2 Release 2 claws at bottom and 2 claws each side, draw the front panel ass'y forward.



Step 4 Remove 10 screws.

Step 5 Disconnect connectors (CN2806, CN2803 and CN5950).

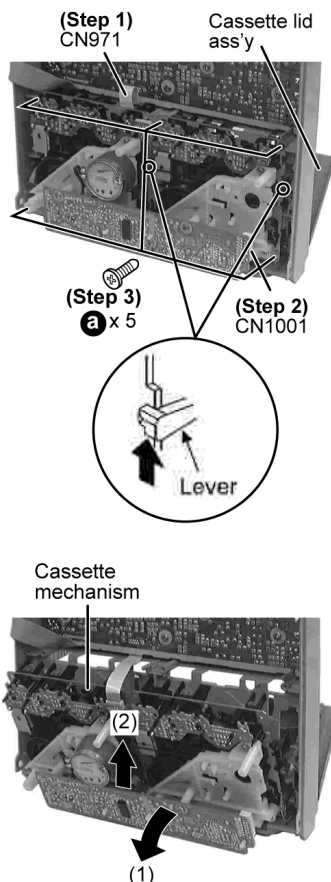
10.12. Disassembly of Deck Mechanism Unit

- Follow the (Step 1) - (Step 2) of Item 10.3 - Disassembly of Top Cabinet
- Follow the (Step 1) - (Step 6) of Item 10.4 - Disassembly of CD Lid
- Follow the (Step 1) - (Step 3) of Item 10.6 - Disassembly of CD Mechanism Unit
- Follow the (Step 1) - (Step 3) of Item 10.11 - Disassembly of Front Panel Unit

Step 1 Detach FFC wire (CN971).

Step 2 Disconnect FFC flat cable from the connector (CN1001).

Step 3 Remove the 5 screws.

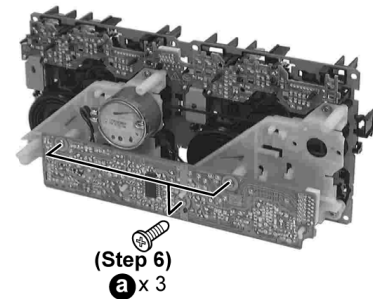


Step 4 Push the lever upward, and then open the cassette lid ass'y (For DECK1 and DECK2).

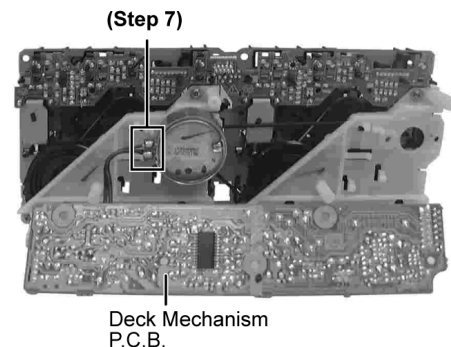
Step 5 Tilt the cassette mechanism unit in the direction of arrow (1), and then remove it in the direction of arrow (2).

- For replacement of Deck Mechanism P.C.B.

Step 6 Remove 3 screws.



Step 7 Unsolder the motor terminals.



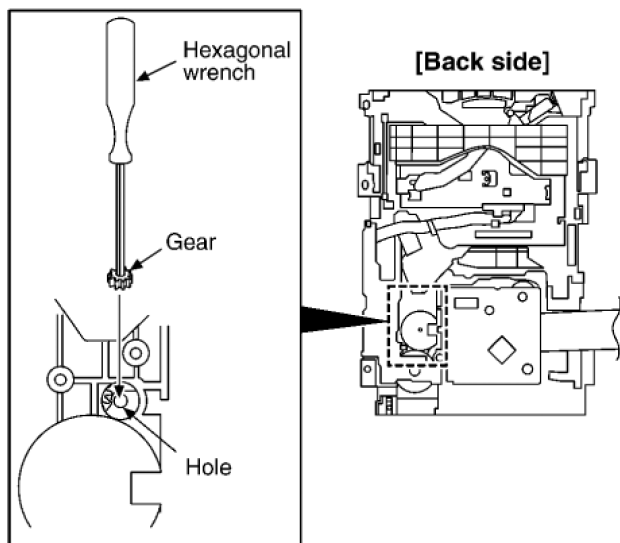
Step 8 Remove Deck Mechanism P.C.B.

10.13. CD Mechanism Main Component Replacement Procedures

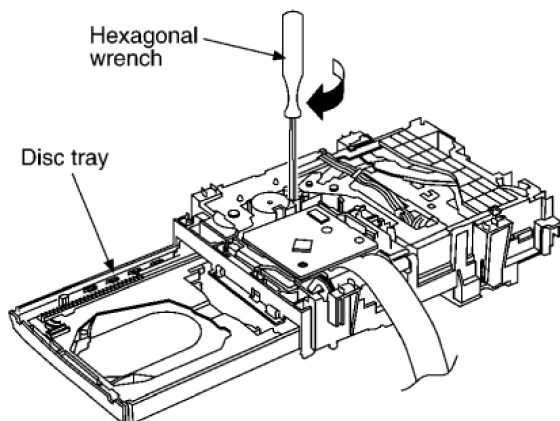
- Follow the (Step 1) - (Step 2) of Item 10.3 - Disassembly of Top Cabinet
- Follow the (Step 1) - (Step 6) of Item 10.4 - Disassembly of CD Lid
- Follow the (Step 1) - (Step 6) of Item 10.6 - Disassembly of CD Mechanism Unit

10.13.1. Replacement of the Traverse Deck

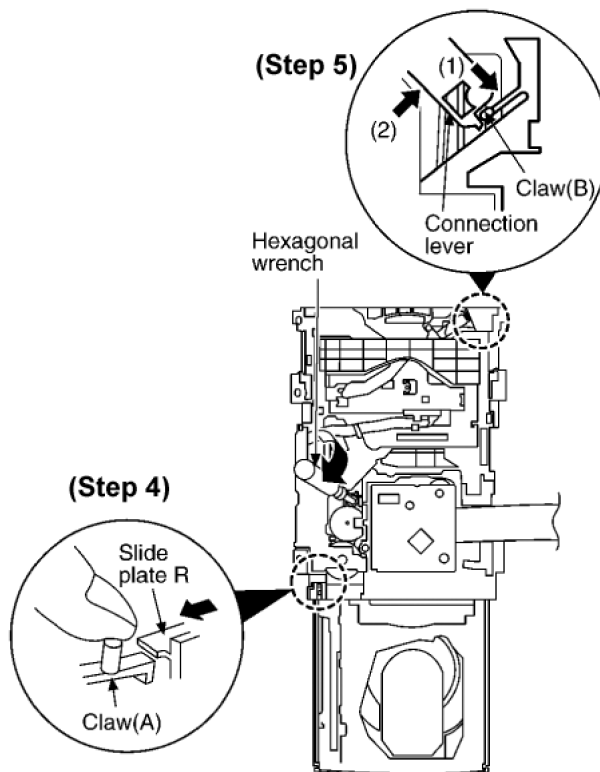
Step 1 Remove the CD changer unit.



Step 2 Insert the gear with hexagonal wrench into the hole.

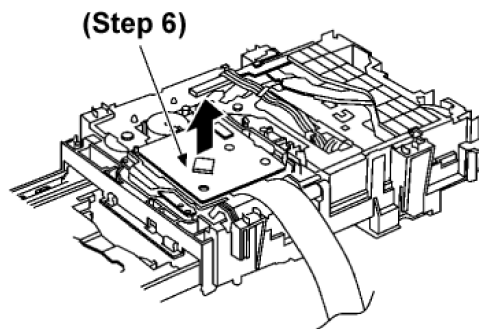


Step 3 Rotate the hexagonal wrench in the direction of arrow (clockwise), and then open the disc tray fully.

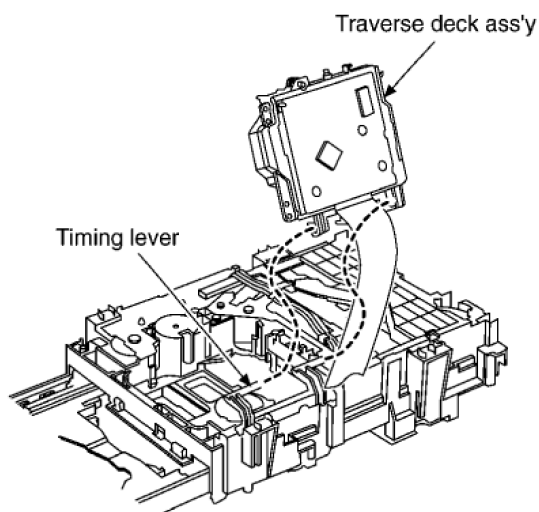


Step 4 With pressing the claw (A), rotate the hexagonal wrench clockwise. (The slide plate R moves for a little amount.)

Step 5 Pressing the claw (B) in the direction of arrow (1), the connection lever moves in the direction of arrow (2).



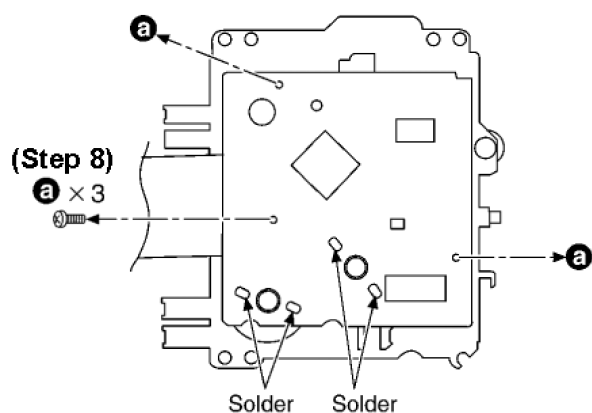
Step 6 Lift up the traverse deck ass'y.



Step 7 Remove the traverse deck ass'y from the timing lever.

Caution:

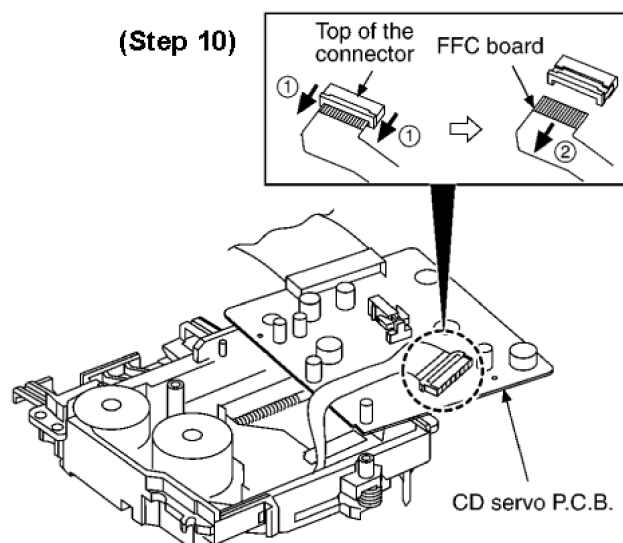
When removing or inserting the traverse deck avoid touching the OPU lens and pressing onto the turntable.



Step 8 Remove 3 screws.

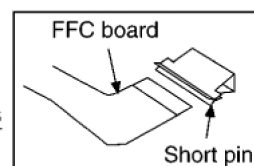
Step 9 Unsolder the motor terminals (4 points).

(Step 10)

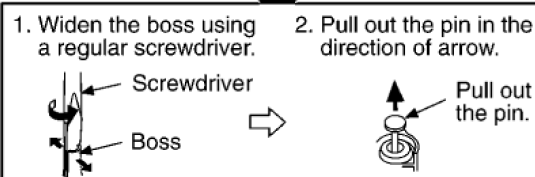
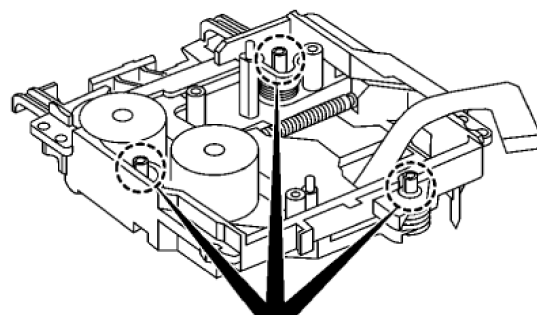


Caution:

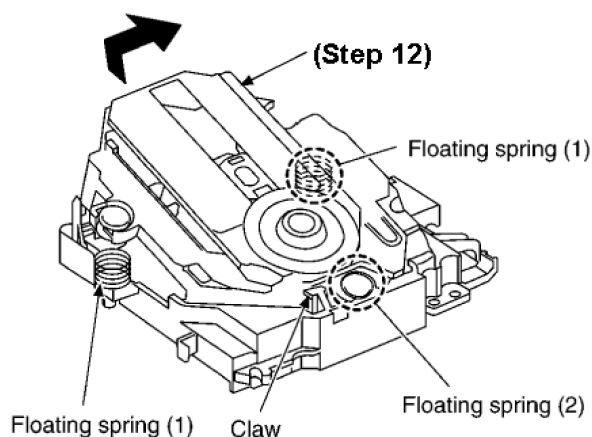
Insert a short pin into the traverse unit FFC board.
(Refer to "**Handling Precautions for Traverse Deck**".)



Step 10 Remove the FFC board from the connector, and then remove the CD Servo P.C.B.



Step 11 Remove the pin.



Step 12 Release the claw, and then remove the traverse deck ass'y.

Note:

Be careful not to lose the 3 floating spring because those will also be removed on removal of the traverse deck ass'y.

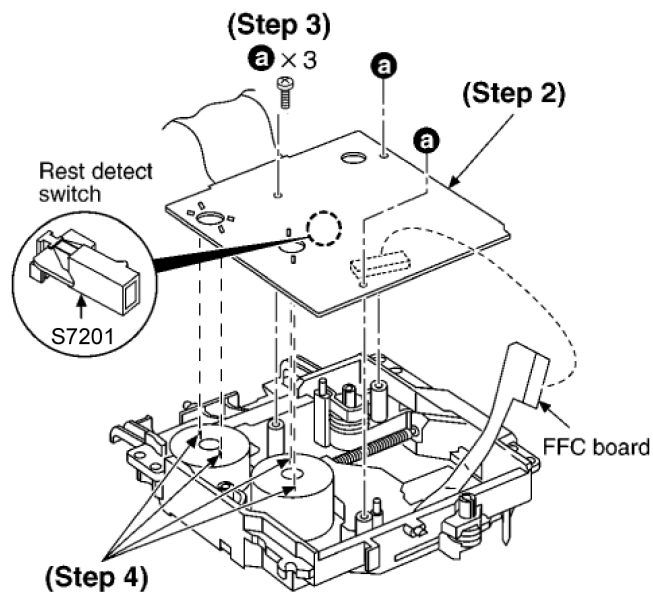
· **Installation of the CD Servo P.C.B. after replacement**

Step 1 Connect the FFC board.

Step 2 Install the CD servo P.C.B. in the traverse deck ass'y.

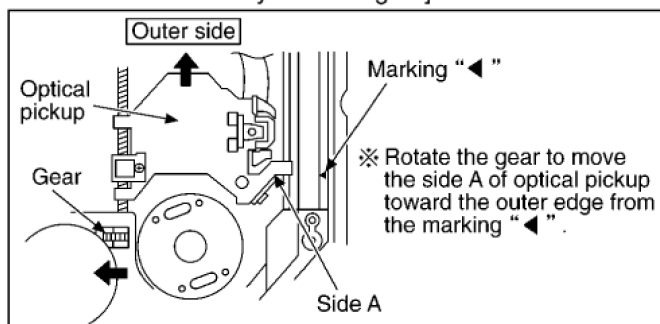
Step 3 Remove 3 screws.

Step 4 Solder.

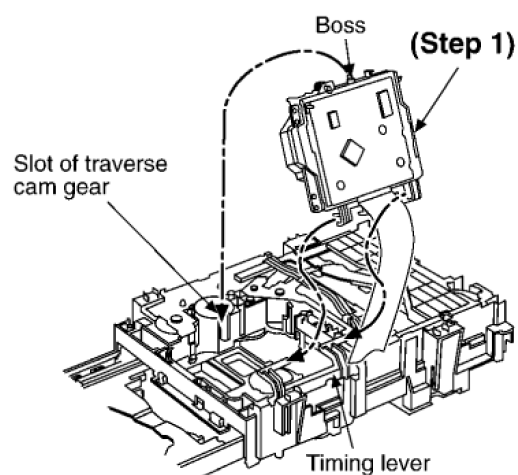


· **Note for installation of the CD servo P.C.B.**

Before installing the CD servo P.C.B., move the optical pickup toward the outer edge from the mark "◀".
[Otherwise, the rest detect switch (S7201) mounted on the CD servo P.C.B. may be damaged.]

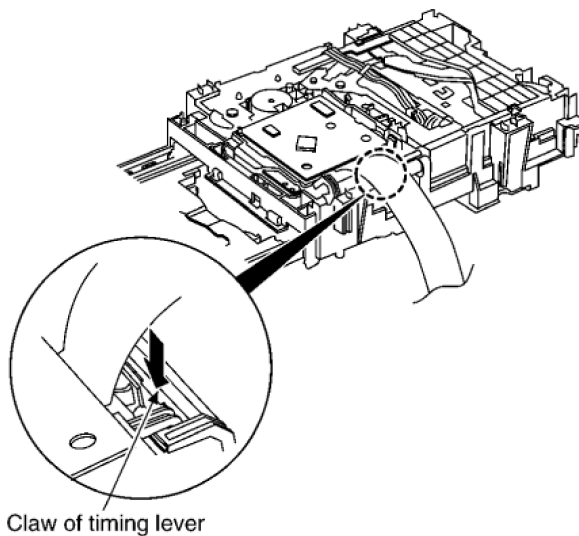


· **Installation for traverse deck ass'y**

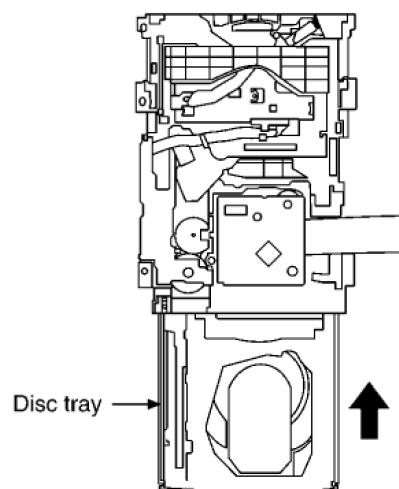


Step 1 Install the traverse deck ass'y to the timing lever.

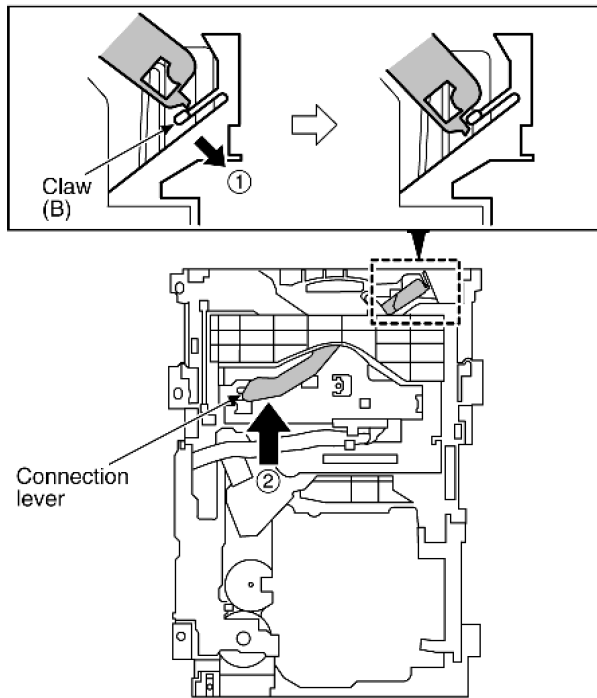
Step 2 Align the boss of traverse deck ass'y with the slot of traverse cam gear.



Step 3 Force the claw of timing lever.



Step 4 Force the disc tray fully.



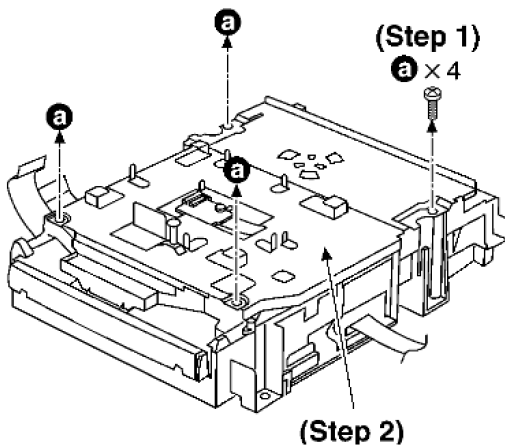
Step 5 With pressing the claw (B) in the direction of arrow (1), force the connection lever in the direction of arrow (2).

10.13.2. Replacement for the Disc Tray

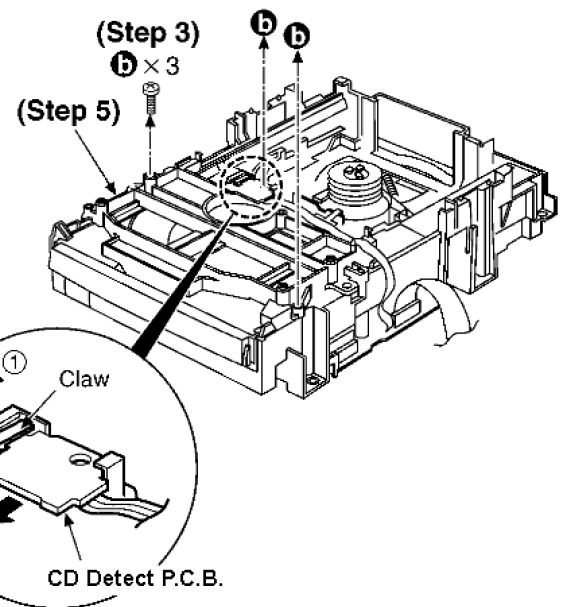
Step 1 Remove 4 screws.

Step 2 Remove the upper plate.

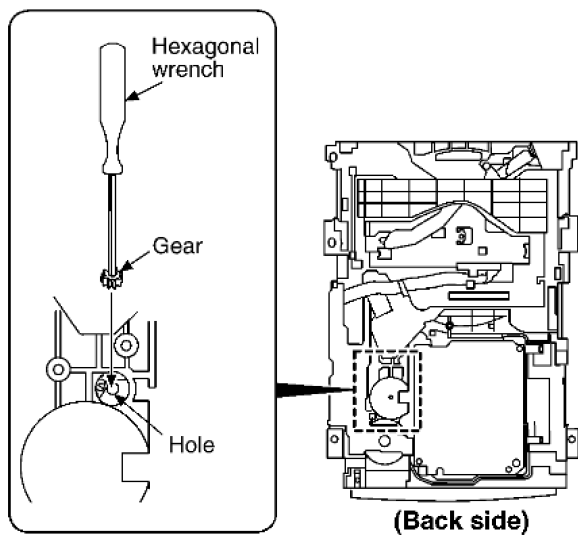
Step 3 Remove 3 screws.



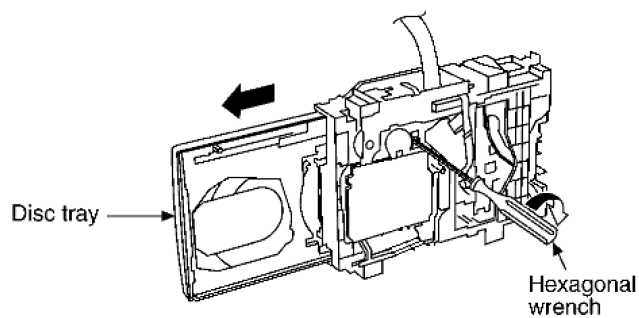
Step 4 With lifting the claw in the direction of (1), draw the CD Detect P.C.B. in the direction of arrow (2).



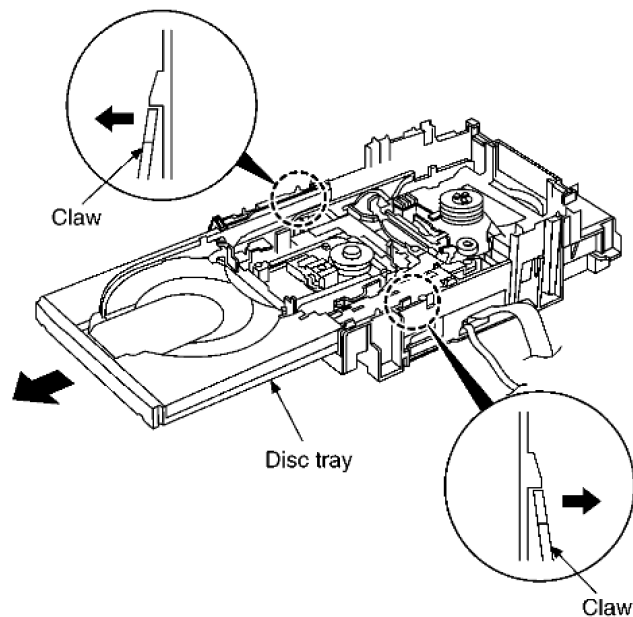
Step 5 Remove the mechanism cover.



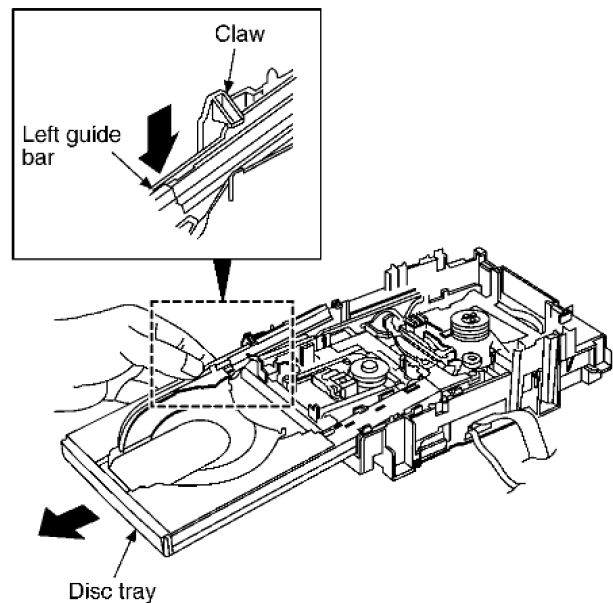
Step 6 Insert the gear with hexagonal wrench into the hole.



Step 7 Rotate the hexagonal wrench in the direction of arrow, and then open the disc tray fully.

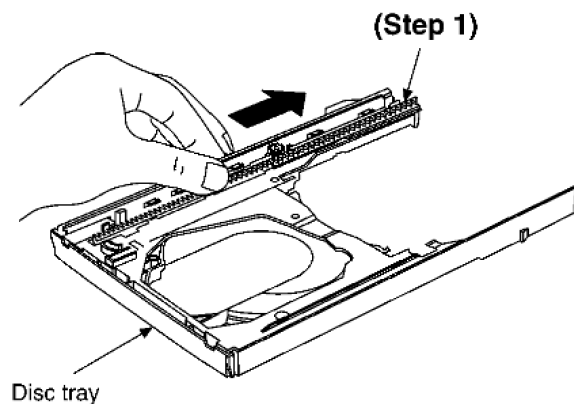


Step 8 Release the both claws, and then draw the disc tray.

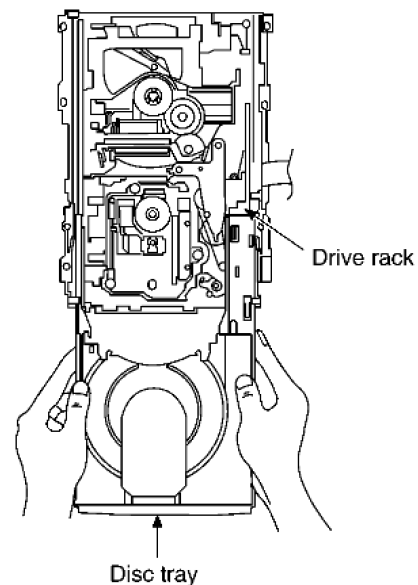


Step 9 With forcing the left guide bar manually because the left guide bar interferes with claw, draw the disc tray.

[Installation of the disc tray after replacement]

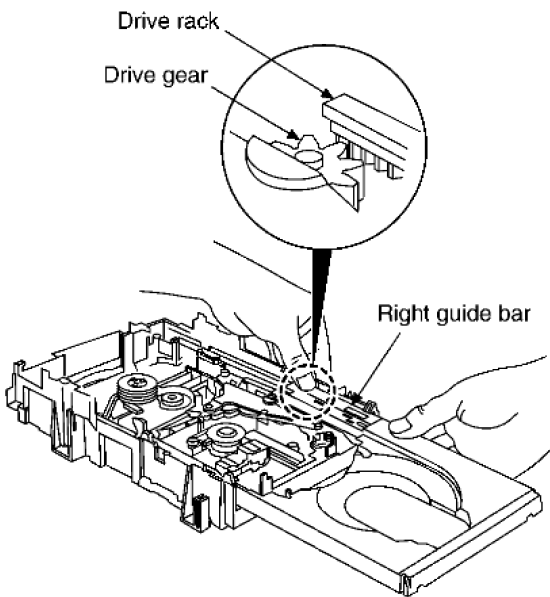


Step 1 Slide the drive rack fully in the direction of arrow.

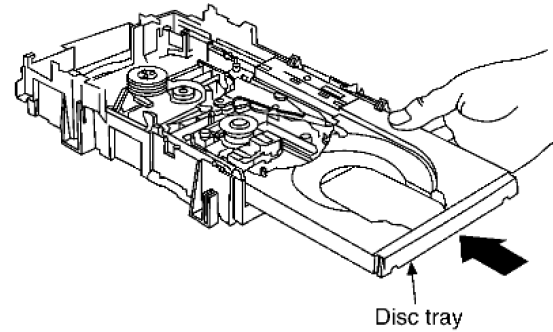


Step 2 Holding the drive rack not to move, install the disc tray.

Step 3 Align the drive rack with the drive gear.

**NOTE:**

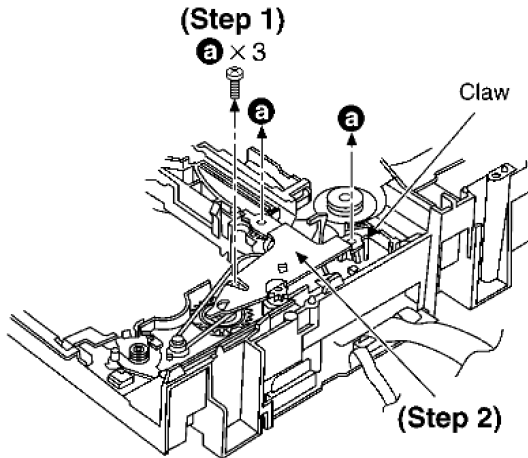
Force the right guide bar of tray base manually not to move upwards.



Step 4 Holding the disc tray manually, push the disc tray in the direction of the arrow.

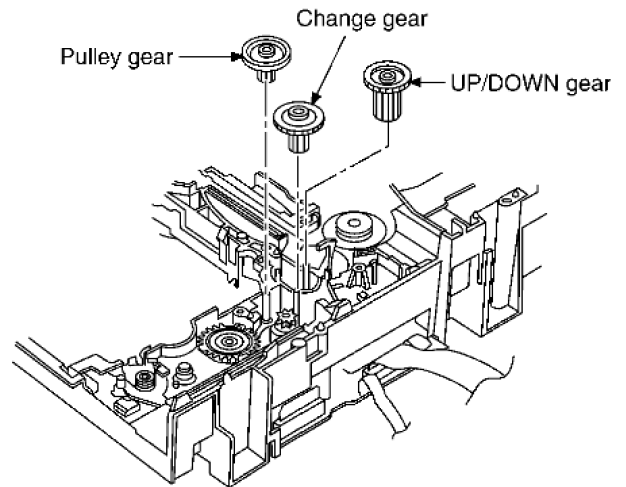
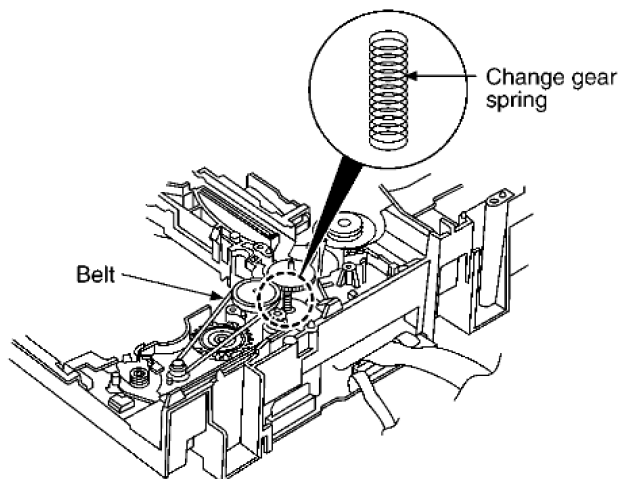
10.13.3. Disassembly and reassembly for mechanism base drive unit

Step 1 Remove 3 screws.



Step 2 Release the claw, and then remove the gear holder.

Step 3 Remove the belt and change gear spring.

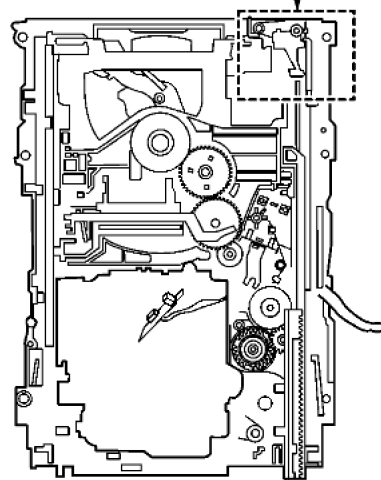
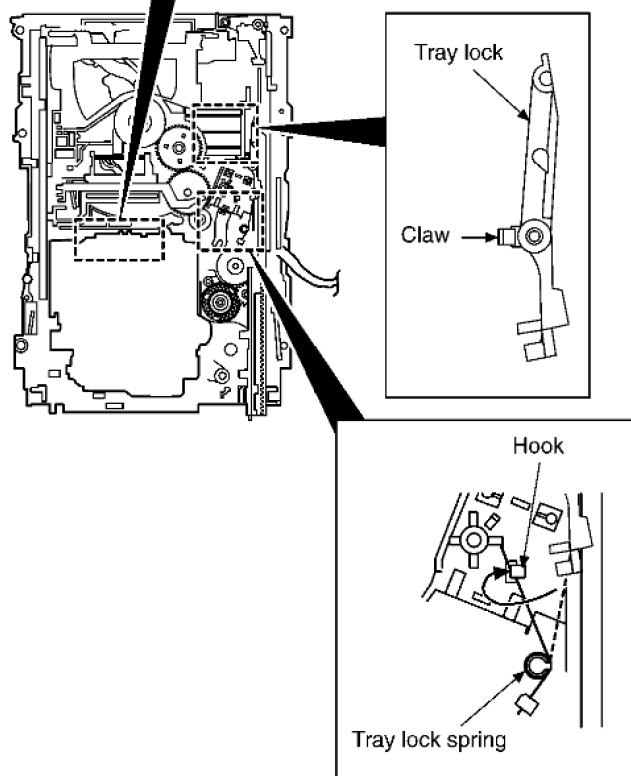
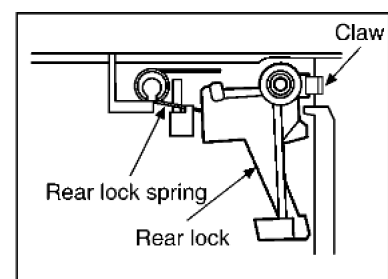
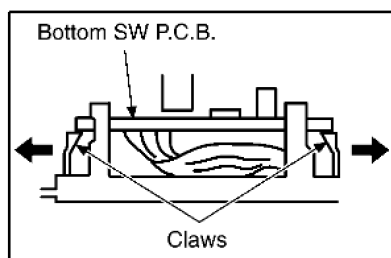


Step 5 Release the 2 claws, and then remove the bottom SW P.C.B..

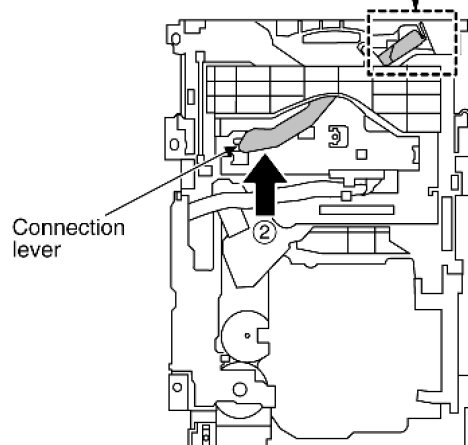
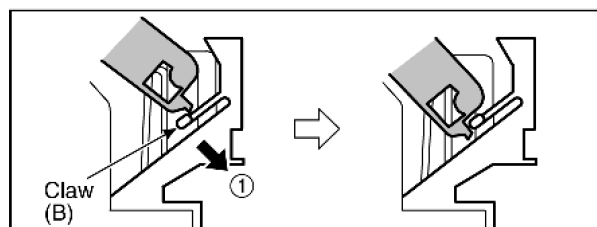
NOTE:

Take care not to lose the change gear spring.

Step 4 Remove the pulley gear, change gear and UP/DOWN gear.



Step 9 Pressing the claw (B) in the direction of arrow (1), force the connection lever in the direction of arrow (2).

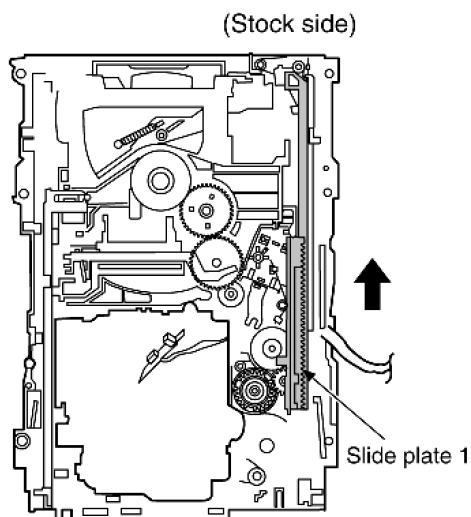


Step 10 Move the slide plate 1 to the end of stock side.

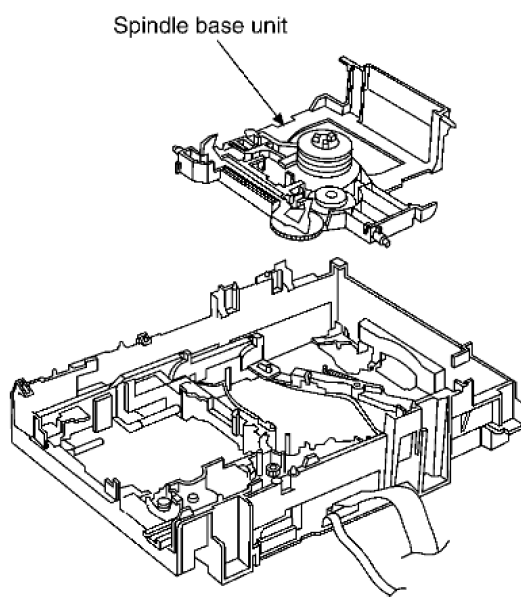
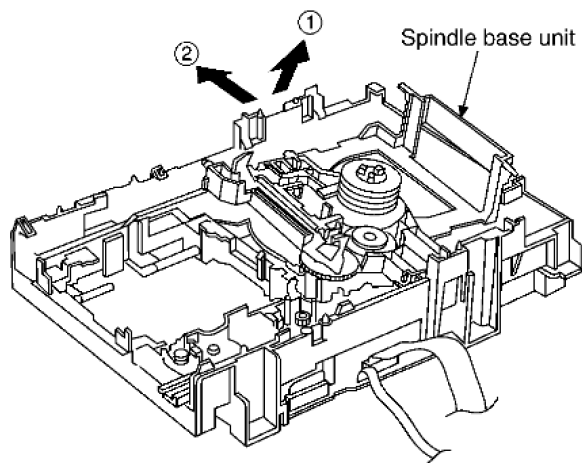
Step 6 Install the tray lock spring to hook temporary.

Step 7 Release the claw, and then remove the tray lock.

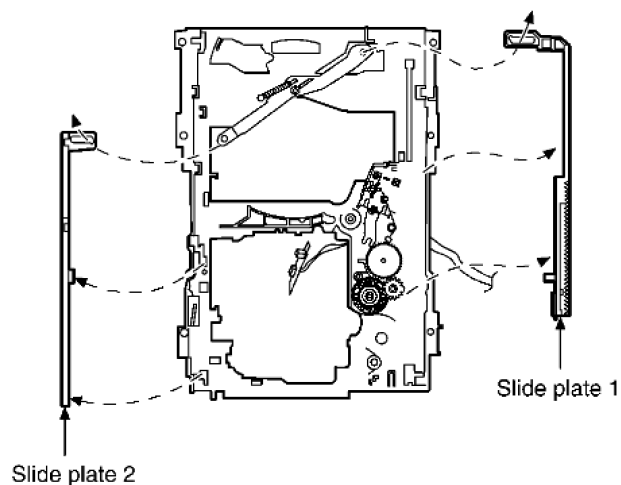
Step 8 Release the claw, and then remove the rear lock.



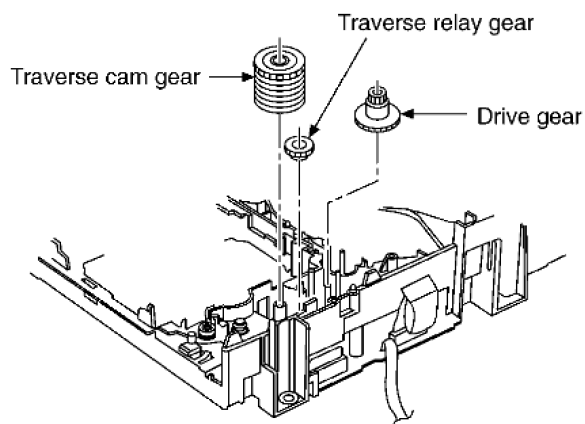
Step 11 Lift up the left end of spindle base unit in the direction of arrow (1), and then remove the unit in the direction of arrow (2).



Step 12 Remove slide plate 1 and slide plate 2.

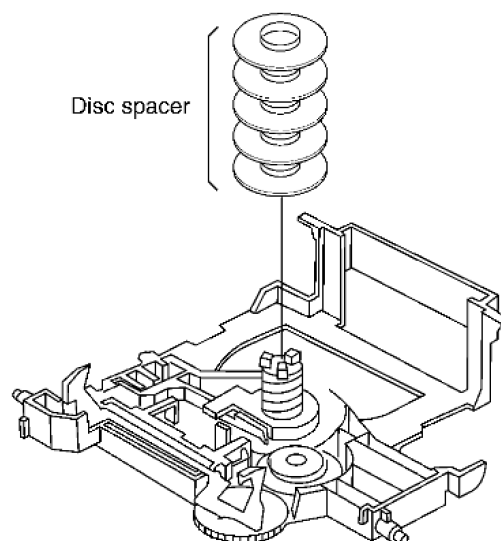


Step 13 Remove the traverse relay gear, traverse cam gear and drive gear.

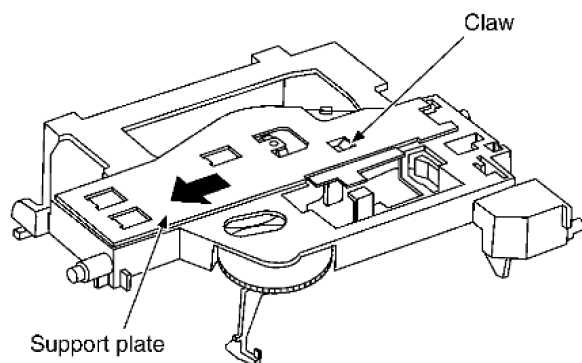


[Disassembly/reassembly for the spindle base unit]

Step 1 Draw the 5 disc spacers.

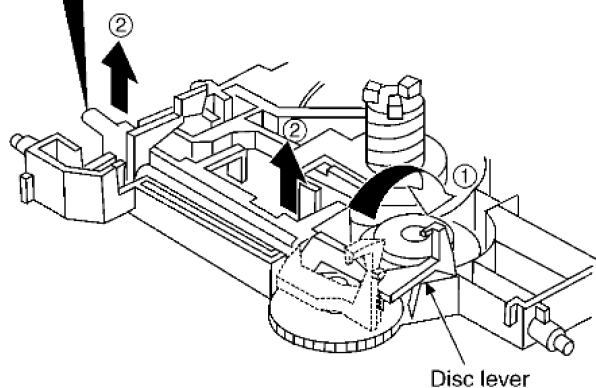
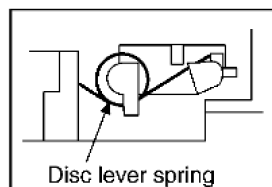


Step 2 Pushing the claw, slide the support plate in the direction of arrow, and then remove it.



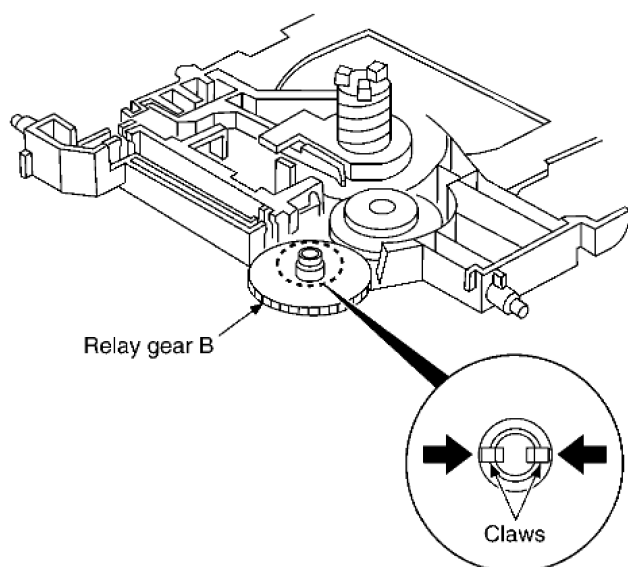
Step 3 Rotate the disc lever in the direction of arrow (1), draw the disc lever.

(Installation for disc lever spring)



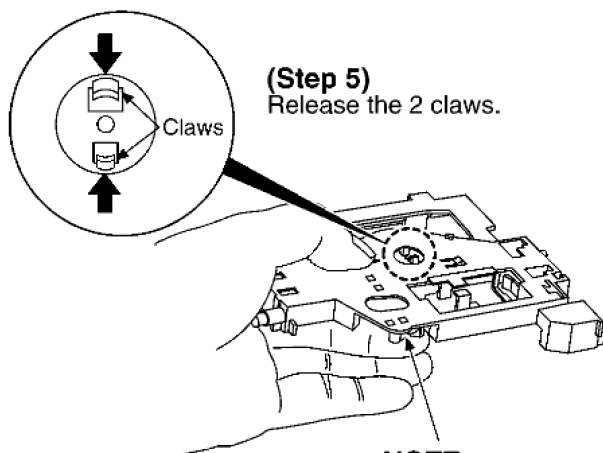
NOTE:

Take care not to lose the disc lever spring.



Step 4 Release the 2 claws, and then draw the relay gear B.

Step 5 Release the 2 claws as shown below.

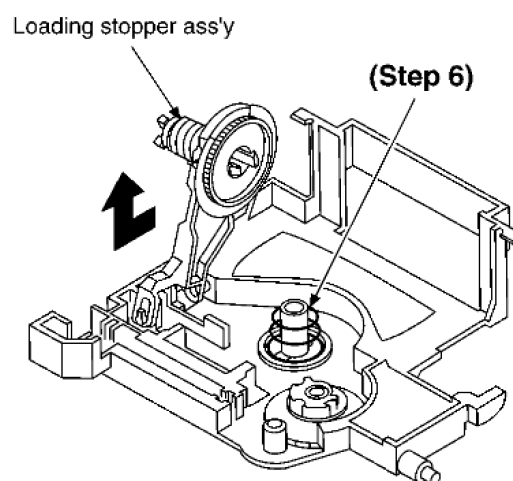


(Step 5)
Release the 2 claws.

NOTE:
Hold the loading stopper ass'y manually because it is flipped by spring.

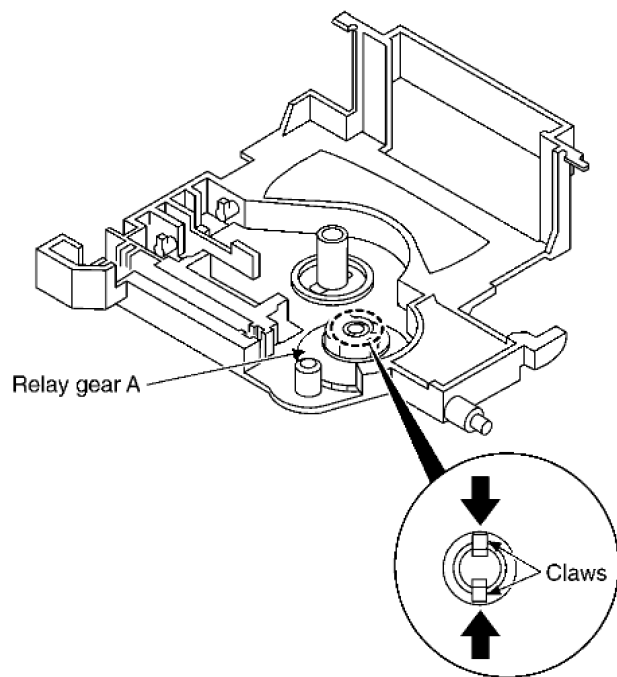
NOTE:

Hold the loading stopper ass'y manually because it is flipped by spring.



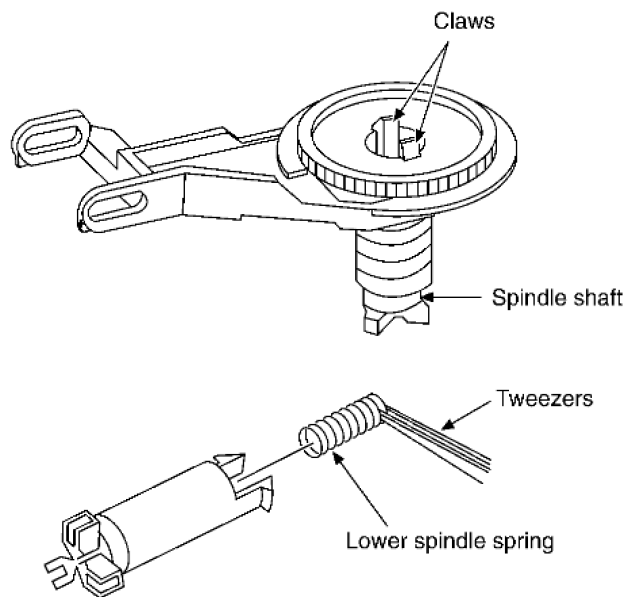
Step 6 Remove the cushion spring.

Step 7 Remove the loading stopper ass'y in the direction of arrow.



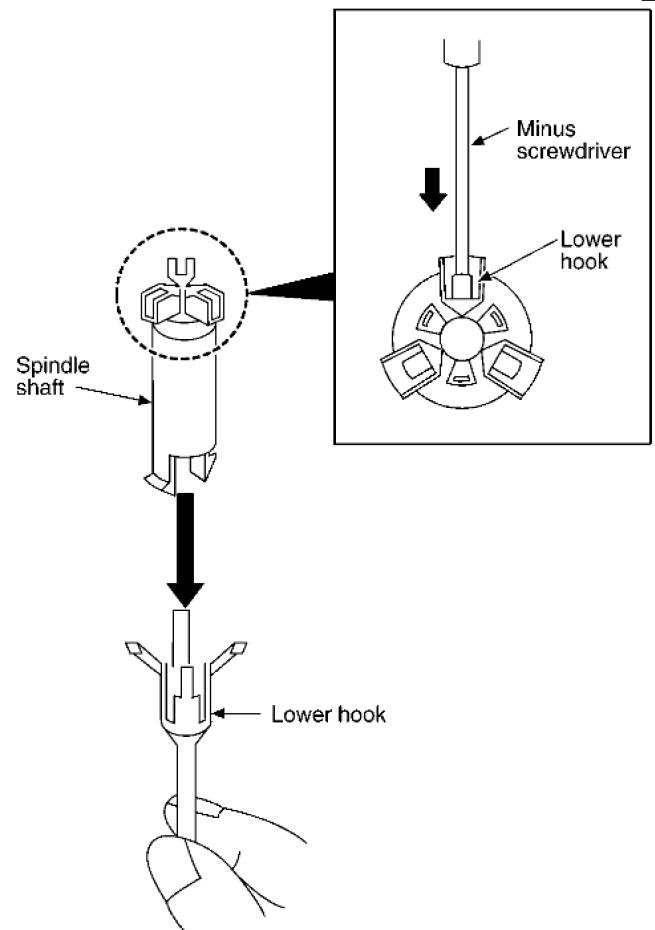
Step 8 Release the 2 claws, and then remove the relay gear A.

Step 9 Release the 2 claws, and then remove the spindle shaft.

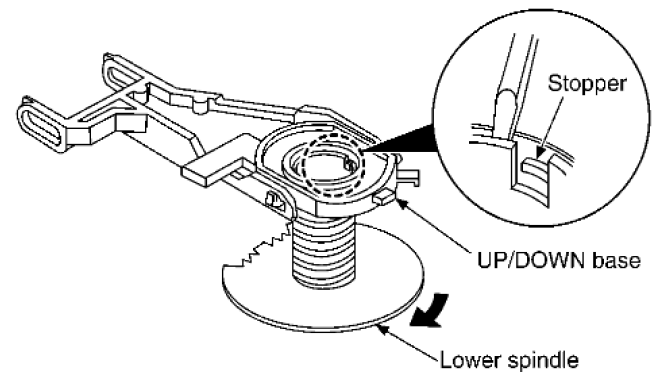


Step 10 Remove the lower spindle spring with tweezers.

Step 11 Force the lower hook with thin tip of minus screwdriver.

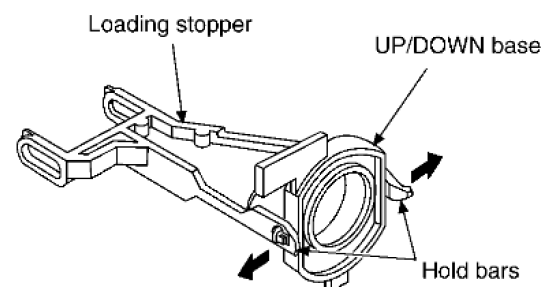


Step 12 Squeeze the shaft of lower hook, and then draw it.



Step 13 Rotate the lower spindle in the direction of arrow until the lower spindle interferes with stopper.

Step 14 Insert the thin tip of minus screwdriver between the lower spindle and UP/DOWN base, and then slacken the lower spindle to release the stopper. Then, rotate the lower spindle and remove it.

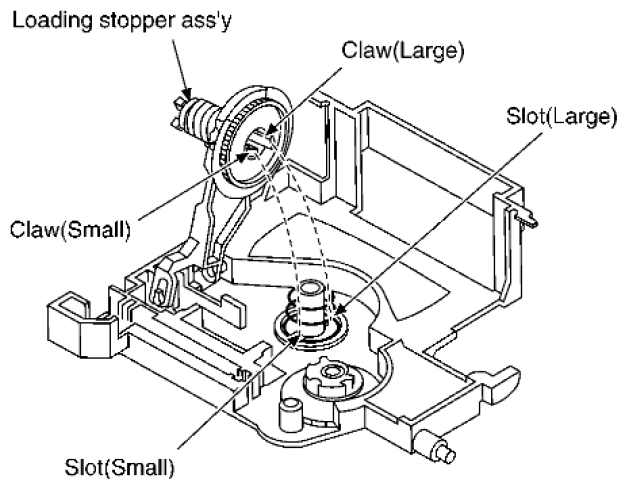


Step 15 Rotate the UP/DOWN base at a 90° angle. Then,

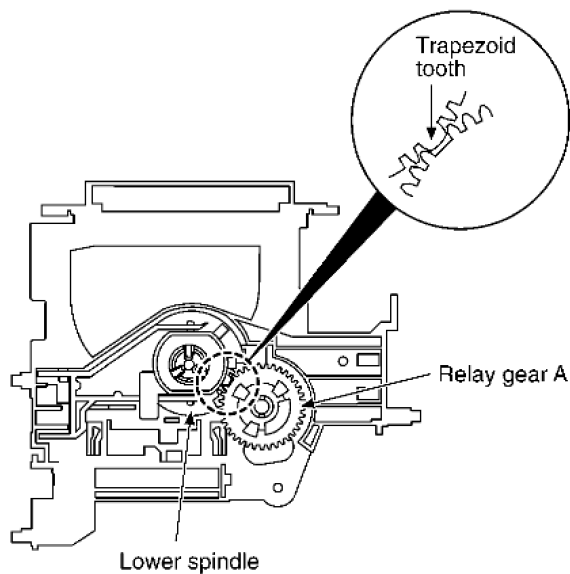
spread the hold bars of loading stopper and remove the UP/DOWN base.

[Installation for loading stopper ass'y]

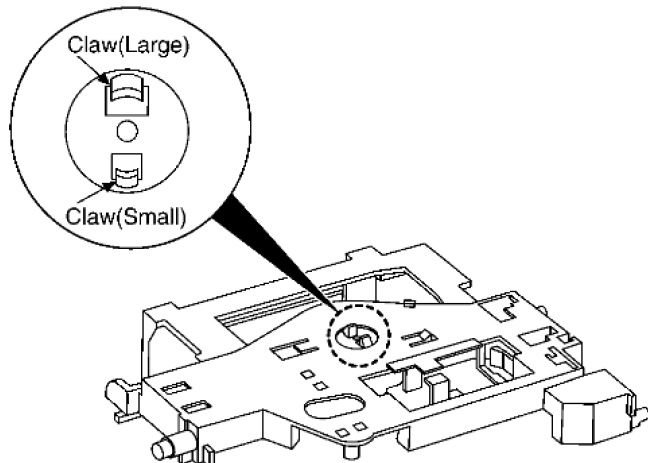
Step 1 Align the claw of loading stoppers ass'y with the slot of spindle base. (Caution should be exercised when alignment of claw due to the size of claws.)



Step 2 Lower the loading stopper ass'y, and then align the lower spindle with the trapezoid tooth of relay gear A.



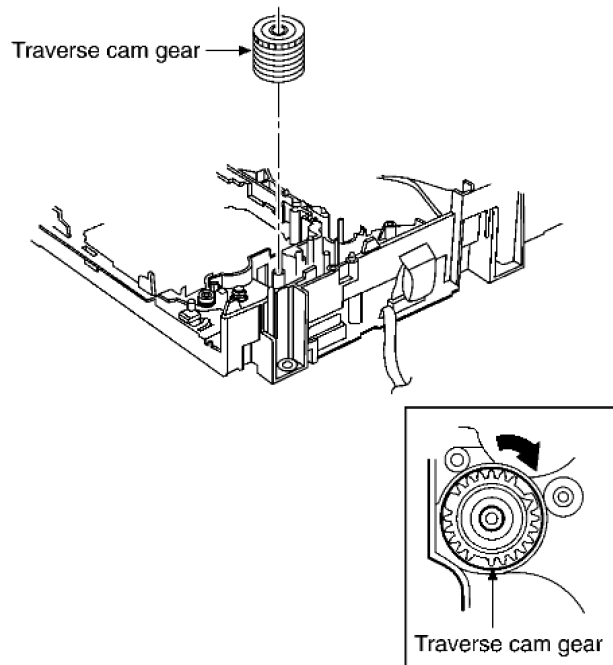
Step 3 Force the loading stopper ass'y, latch the claw firmly.



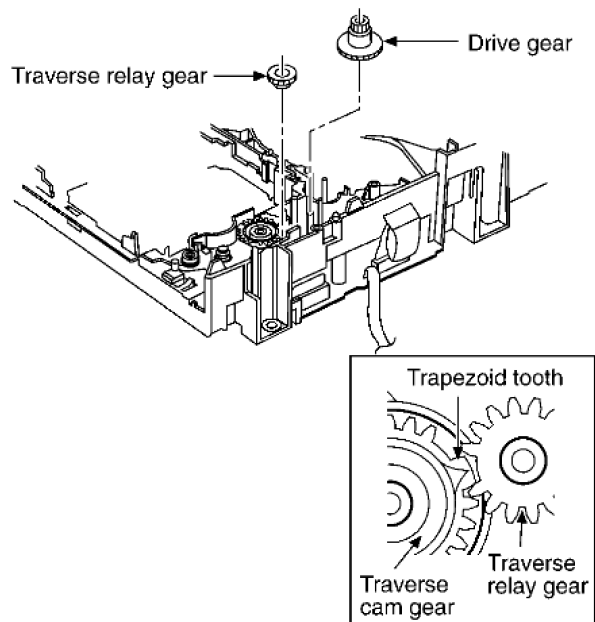
[Reassembly for mechanism base drive unit]

Step 1 Install the traverse cam gear.

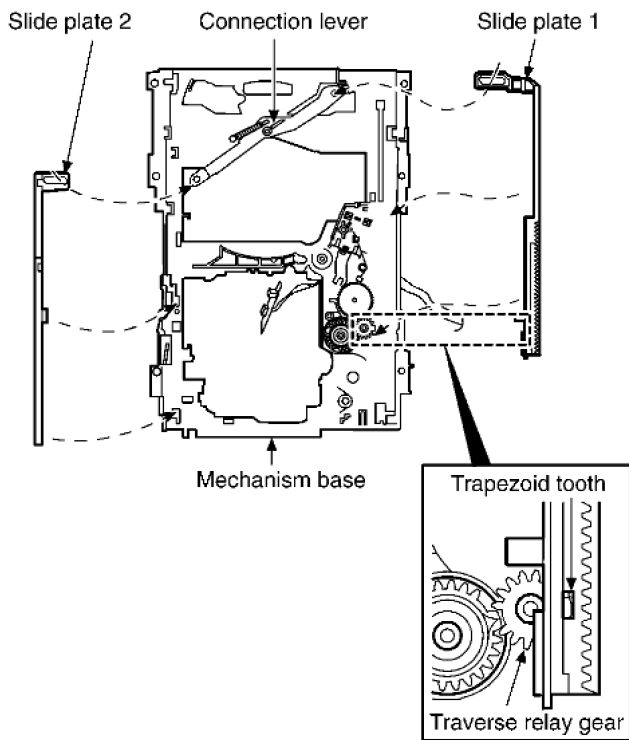
Step 2 Rotate the traverse cam gear to the direction of arrow.



Step 3 Install the drive gear and traverse relay gear.

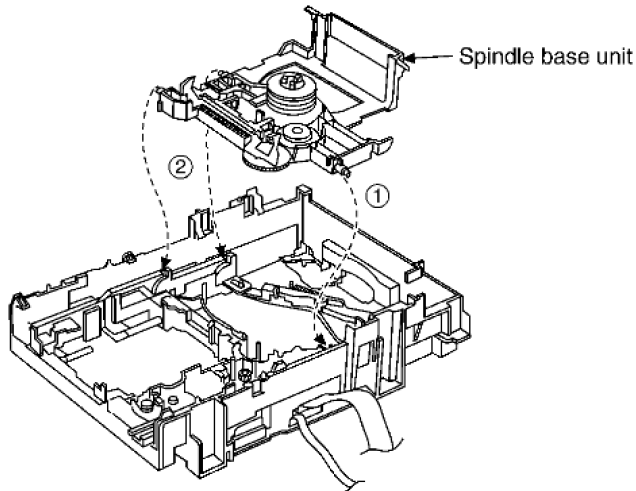


*When installing the traverse relay gear, align the trapezoid tooth of gear with tooth of traverse cam gear.

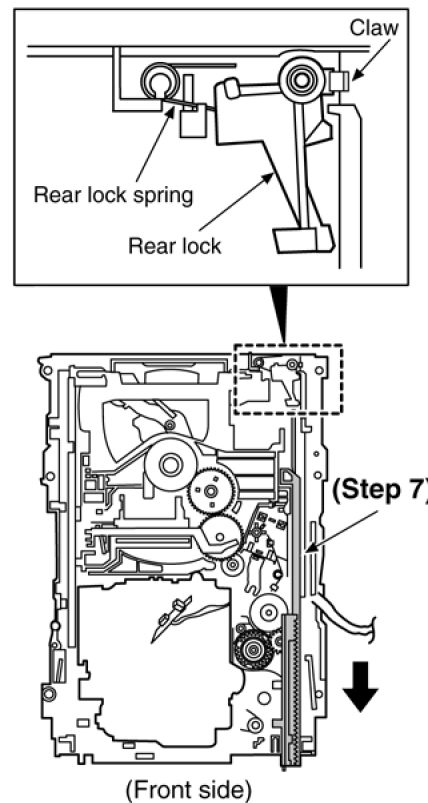


Step 4 Install the slide plate 2 to the mechanism base, and then match to the connection lever.

Step 5 Install the slide plate 1 to the mechanism base, and then match to the connection leve and align the trapezoid tooth of traverse relay gear with the slide plate 1.



Step 6 Install the spindle base unit. (First, slide plate 1.)

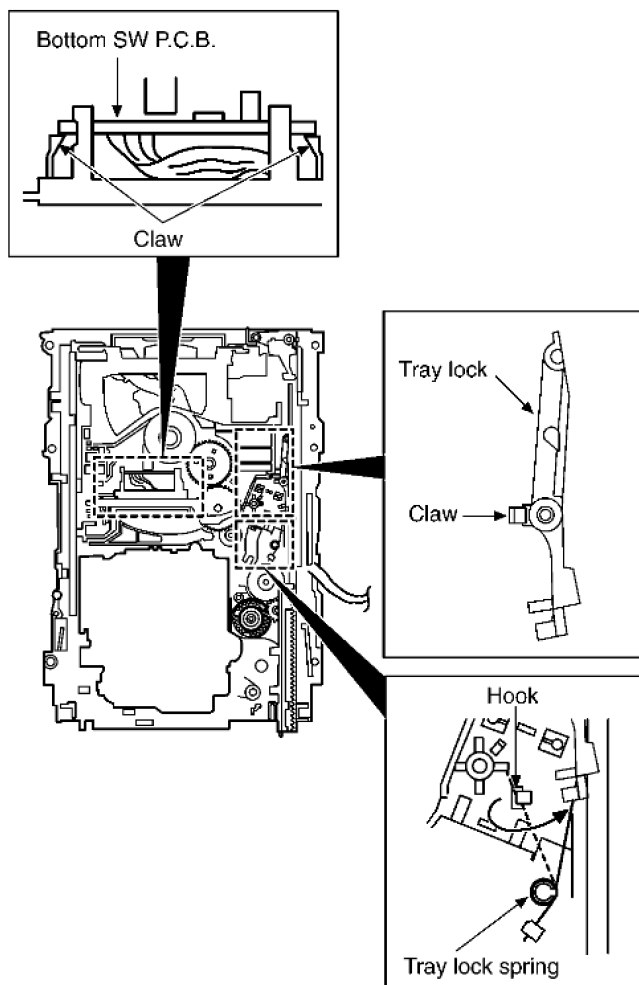


Step 7 Move the slide plate 1 to forward fully.

Step 8 Install the rear lock. (The claw should be latched.)

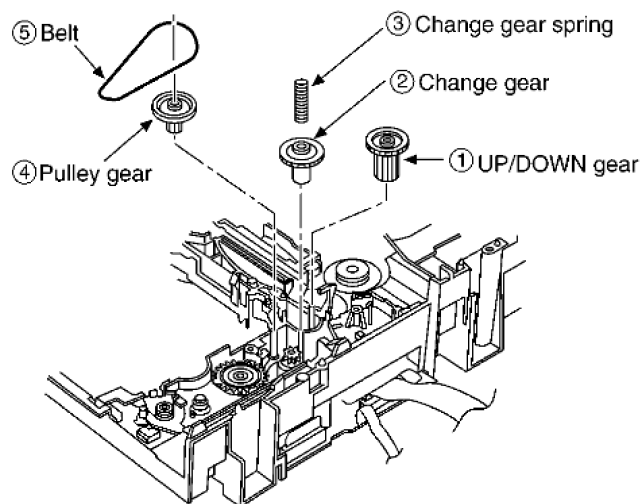
Step 9 Install the Spindle Position P.C.B.. (The claw should be latched.)

Step 10 Install the tray lock. (The claw should be latched.)

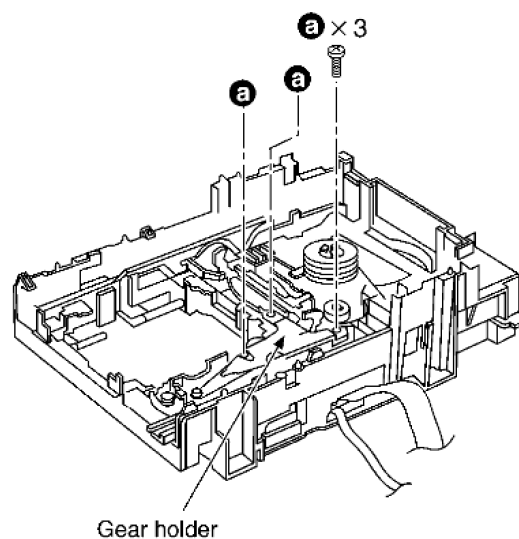


Step 11 Remove the tray lock spring from hook, and then latch to the tray lock.

Step 12 Install the UP/DOWN gear, change gear, change gear spring, pulley gear and belt in the order of (1) - (5).



Step 13 Install the gear holder, and then tighten the screw (a).



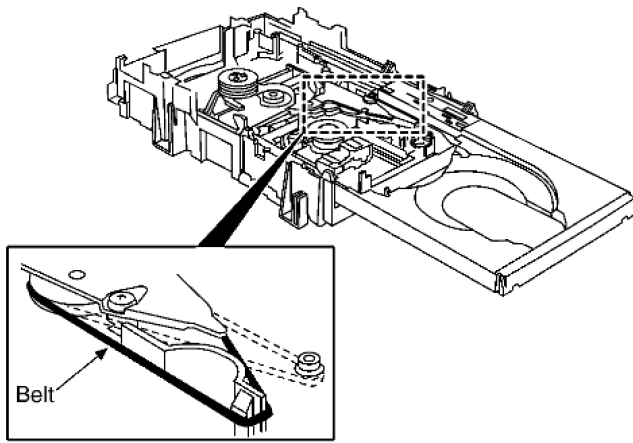
Step 14 Install the tray base, traverse ass'y, mechanism cover and upper plate.

[Operation check after servicing]

Check the proper operation of following items with gear and hexagonal screwdriver.

1. Open/close of tray base.
2. Moving the tray base to the stock side.
3. UP/DOWN operation of spindle base unit.
4. UP/DOWN operation of traverse ass'y.

10.13.4. Replacement for the motor ass'y



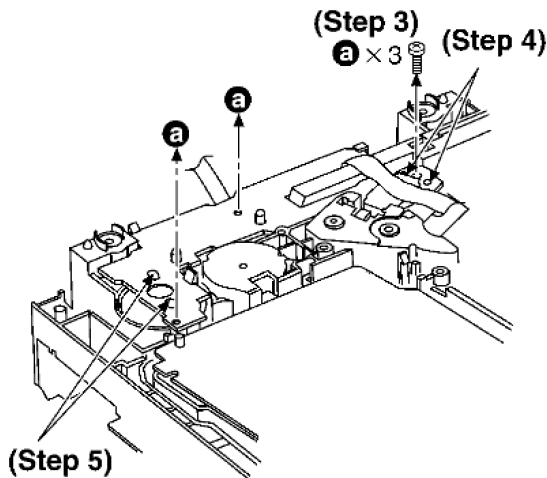
Step 1 Install the belt temporarily.

NOTE:

Take care not apply the grease to the belt.

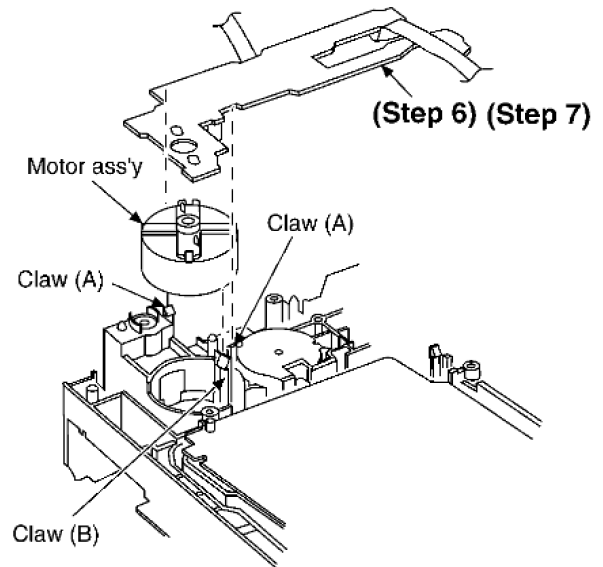
Step 2 Upset the CD loading unit.

Step 3 Remove 3 screws.



Step 4 Unsolder the plunger terminals (2 points).

Step 5 Unsolder the motor terminals (2 points).

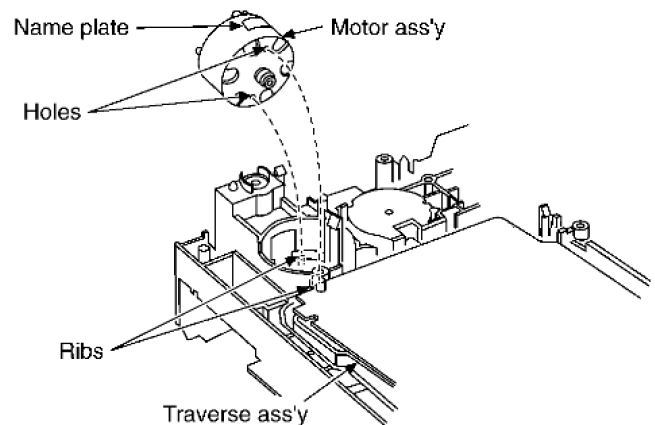


Step 6 Release the 2 claws (A), and then remove the Motor P.C.B.

Step 7 Release the claw (B), and then remove the motor ass'y.

[Notice for motor ass'y installation]

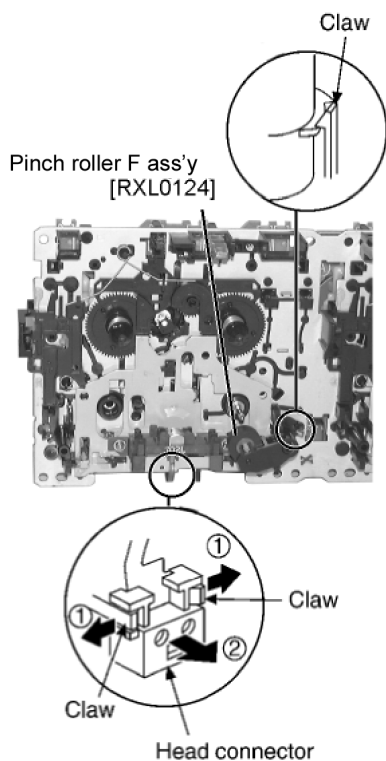
1. Locate the name plate of motor to the traverse ass'y.
2. Align the hole of motor with the ribs.



10.14. Replacement for the pinch roller ass'y and head block

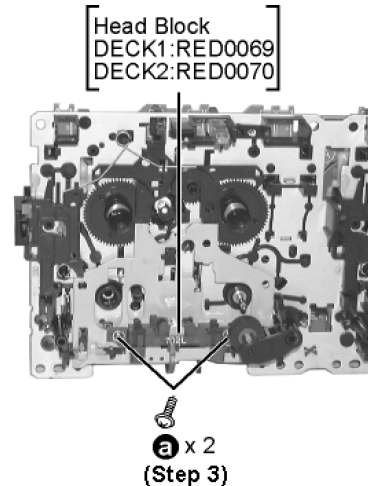
- Follow the (Step 1) - (Step 2) of Item 10.3 - Disassembly of Top Cabinet
- Follow the (Step 1) - (Step 6) of Item 10.4 - Disassembly of CD Lid
- Follow the (Step 1) - (Step 3) of Item 10.6 - Disassembly of CD Mechanism Unit
- Follow the (Step 1) - (Step 3) of Item 10.11 - Disassembly of Front Panel Unit
- Follow the (Step 1) - (Step 5) of Item 10.12 - Disassembly of Deck Mechanism Unit

*** The mechanism as shown below is for DECK1. For DECK 2, perform the same procedures.**



Step 1 Release the 2 claws, and then remove the pinch roller (R), (F).

Step 2 Release the 2 claws, and then remove the head connector.



Step 3 Remove 2 screws.

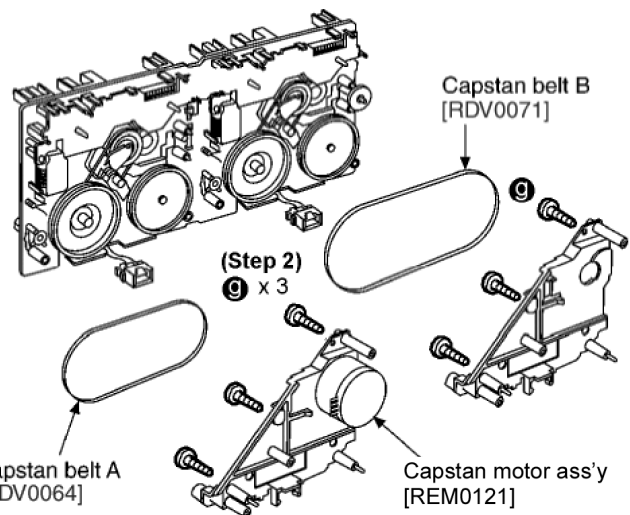
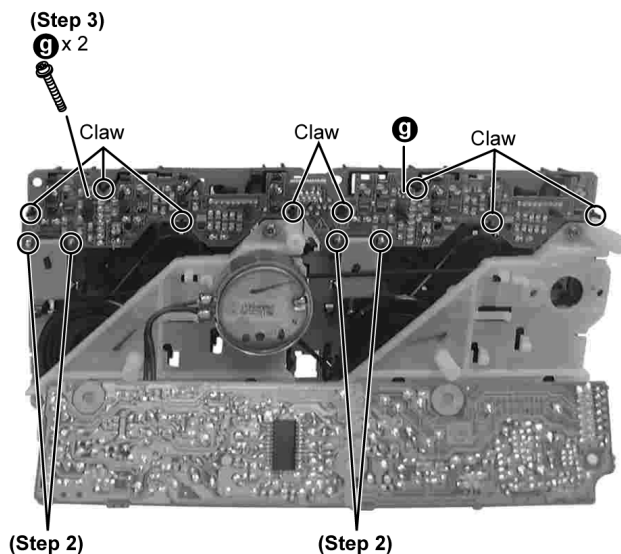
10.15. Replacement for the Deck motor ass'y, capstan belt A, capstan belt B and winding belt

- Follow the (Step 1) - (Step 2) of Item 10.3 - Disassembly of Top Cabinet
- Follow the (Step 1) - (Step 6) of Item 10.4 - Disassembly of CD Lid
- Follow the (Step 1) - (Step 3) of Item 10.6 - Disassembly of CD Mechanism Unit
- Follow the (Step 1) - (Step 3) of Item 10.11 - Disassembly of Front Panel Unit
- Follow the (Step 1) - (Step 5) of Item 10.12 - Disassembly of Deck Mechanism Unit

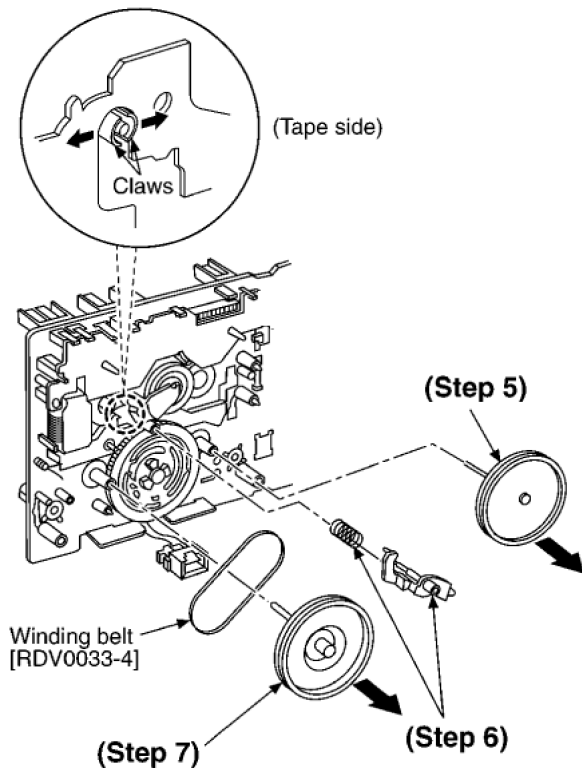
Step 1 Release the 2 claws, and then remove the head connector.

Step 2 De-solder plunger point.

Step 3 Remove the Deck Mechanism P.C.B.



Step 4 Remove 3 screws.



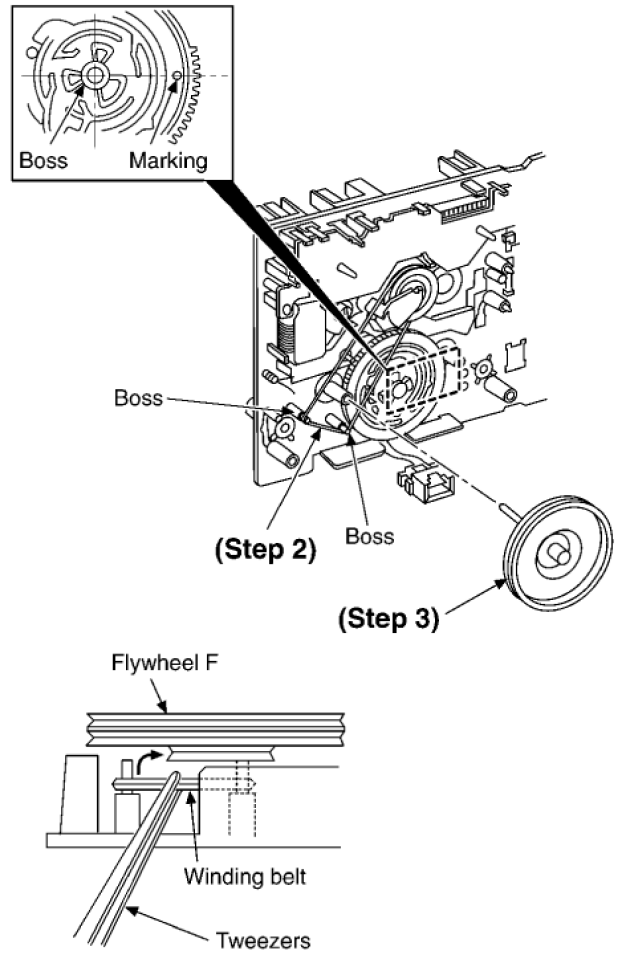
Step 5 Remove the flywheel R.

Step 6 Release the claw of tape side, and then remove the winding lever and spring.

Step 7 Remove the flywheel F.

[Installation of the belt]

Step 1 The boss and marking should be positioned horizontally.



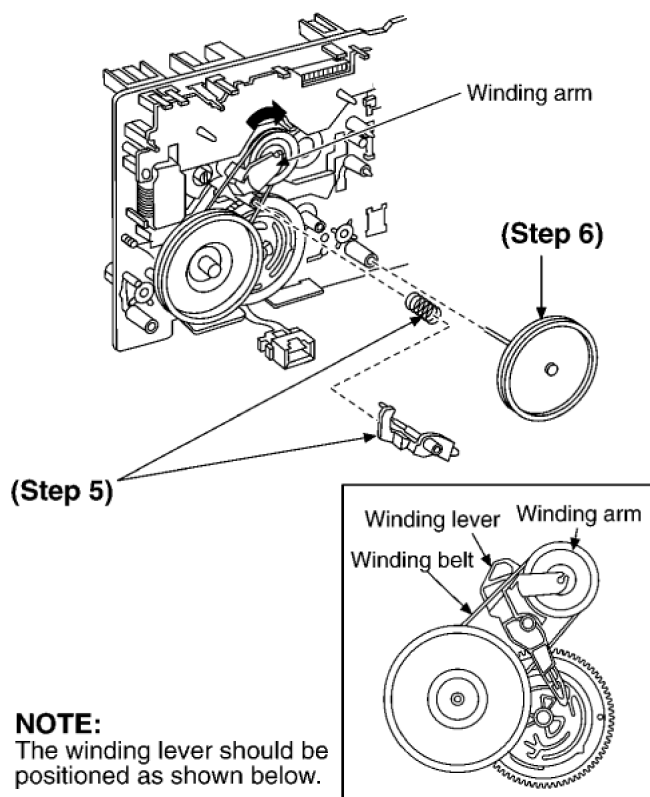
Step 2 Put the winding belt on the pulley temporarily.

Step 3 Install the flywheel F.

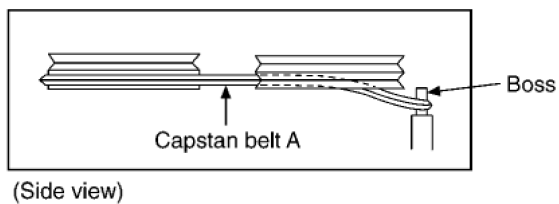
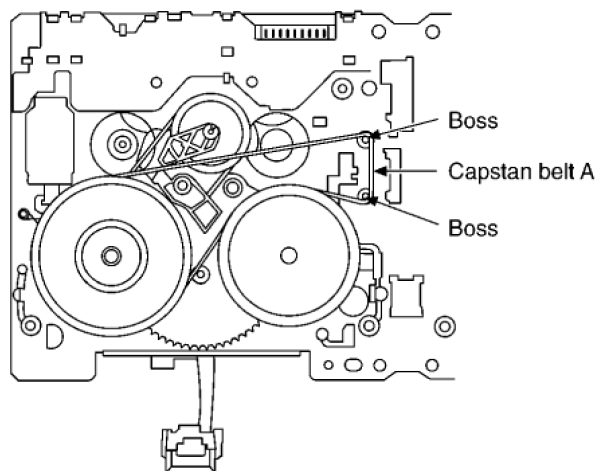
Step 4 Put the winding belt on the flywheel F.

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

Step 6 Install the flywheel R.

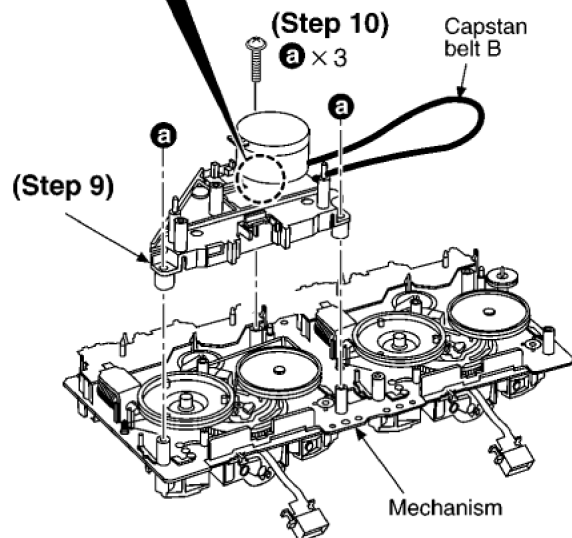
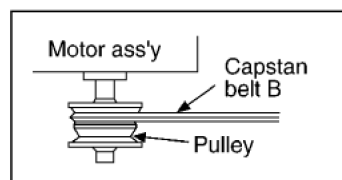


Step 7 Put the capstan belt A temporarily as shown below.



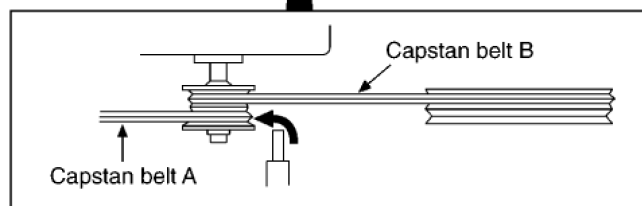
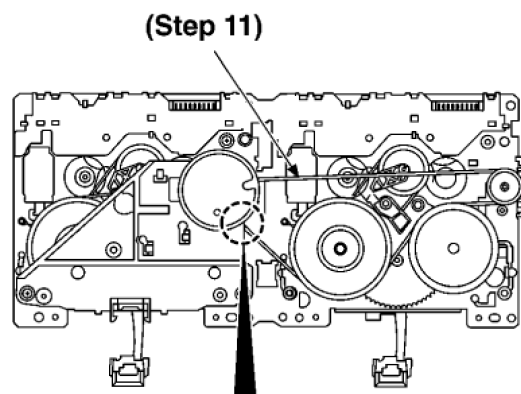
Step 8 Put the capstan belt B on the motor ass'y pulley.

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



Step 10 Remove 3 screws.

Step 11 Put the capstan belt B as shown below.

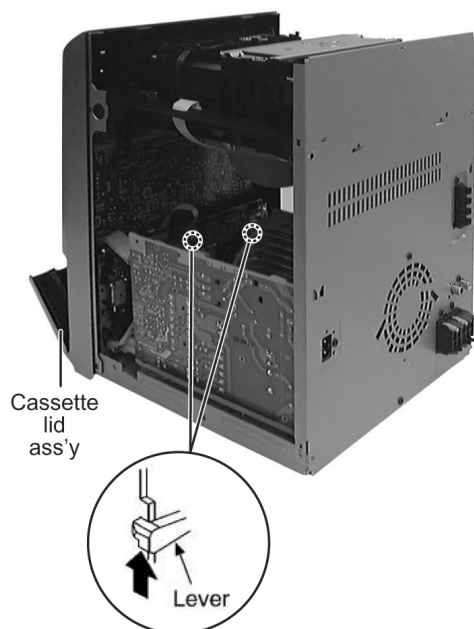


Step 12 Put the capstan belt A on the motor ass'y pulley.

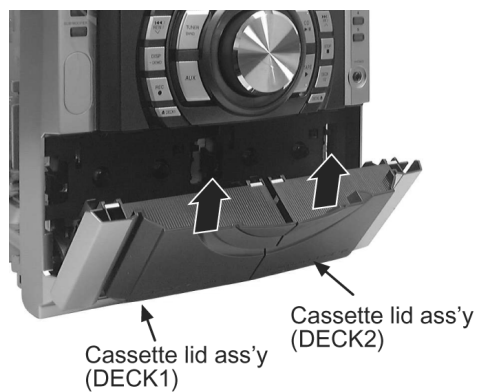
10.16. Replacement for the cassette lid ass'y

· Follow the (Step 1) - (Step 2) of Item 10.3 - Disassembly of Top Cabinet

Step 1 Lift up the lever upward, open the cassette lid ass'y.
(For DECK1 and DECK2)



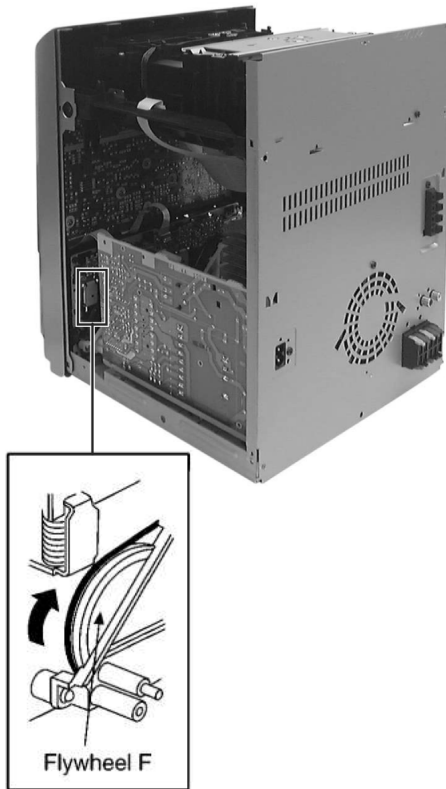
Step 2 Push up the cassette lid ass'y in the direction of arrow.
(For DECK1 and DECK2).



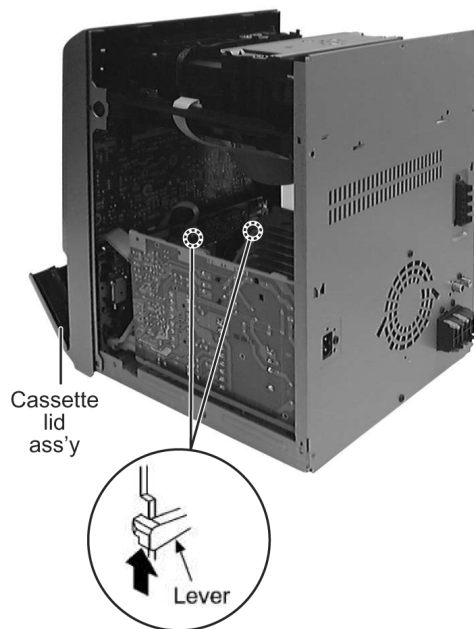
10.17. Rectification for tape jam problem

- Follow the (Step 1) - (Step 2) of Item 10.3 - Disassembly of Top Cabinet

Step 1 If a cassette tape cannot be removed from the deck (the tape is caught by the capstan or pinch roller during playback or recording), rotate the flywheel F in the direction of the arrow to remove it.



Step 2 Push the lever upward and open the cassette lid ass'y. Remove the cassette tape.



11 Checking for major P.C.B.s

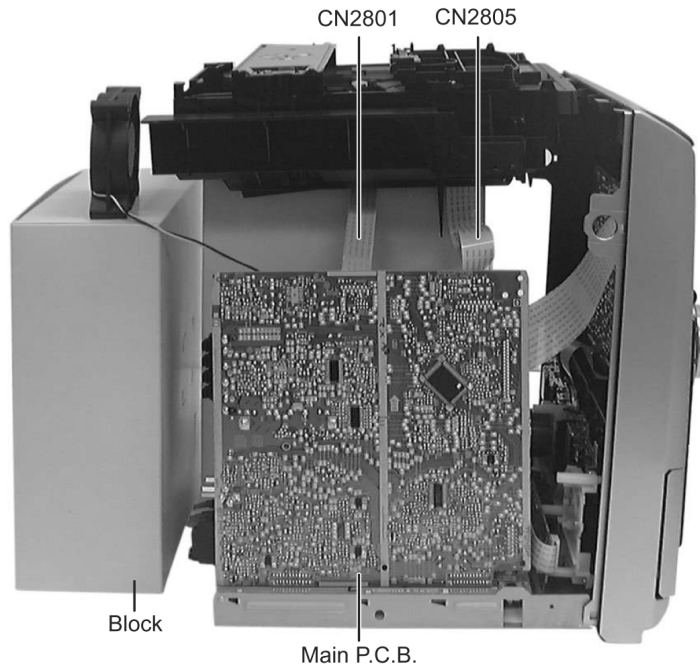
Note:

Checking of all major P.C.B.s (Main P.C.B., Panel P.C.B., Transformer P.C.B., Deck P.C.B., Deck Mechanism P.C.B., Sub-Power P.C.B. and Power P.C.B.) can be carried out using below procedures.

For the disassembling procedures, refer to Section 10.

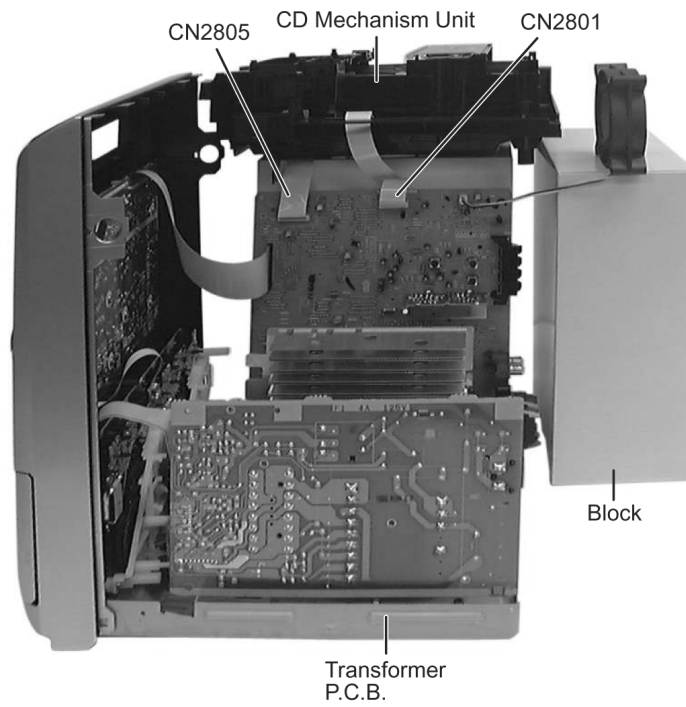
11.1. Checking of Main P.C.B.

1. Remove Top Cabinet and Rear Panel.
2. Remove CD Lid.
3. Disassemble CD Mechanism Unit.
4. Connect FFC wires (CN2801 & CN2805) from CD Mechanism Unit.



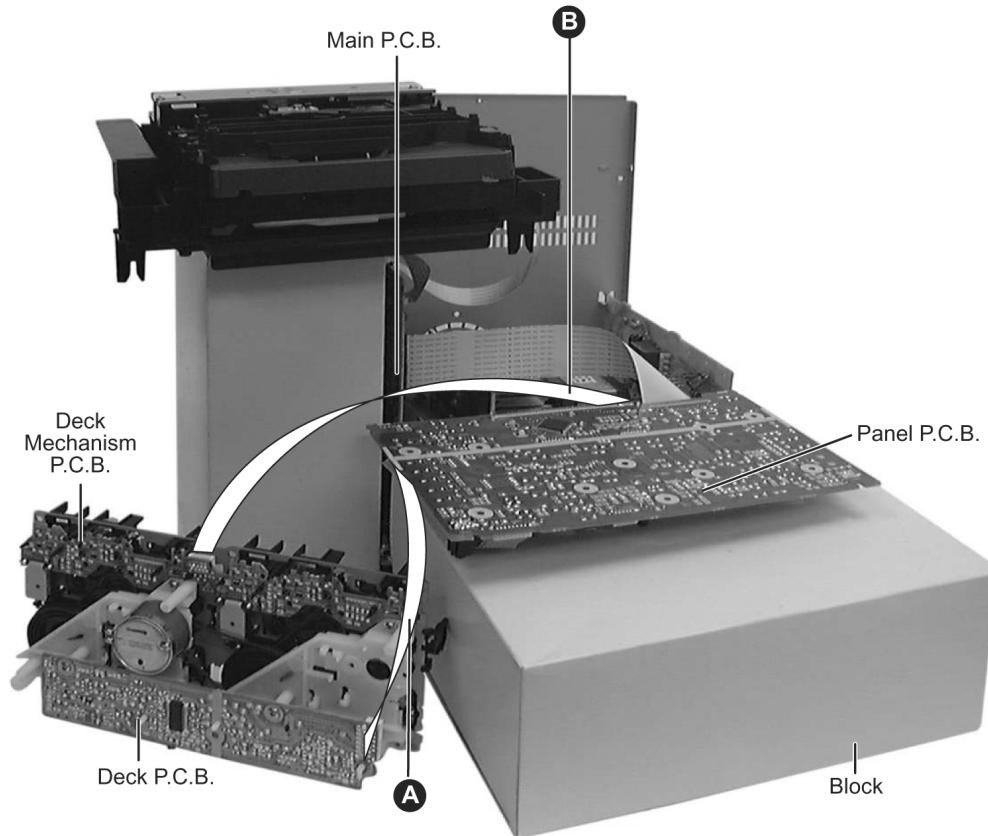
11.2. Checking of Transformer P.C.B.

1. Remove Top Cabinet and Rear Panel.
2. Remove CD Lid.
3. Disassemble CD Mechanism Unit.
4. Connect FFC wires (CN2801 & CN2805) from CD Mechanism Unit.



11.3. Checking of Panel, Deck & Deck Mechanism P.C.B.

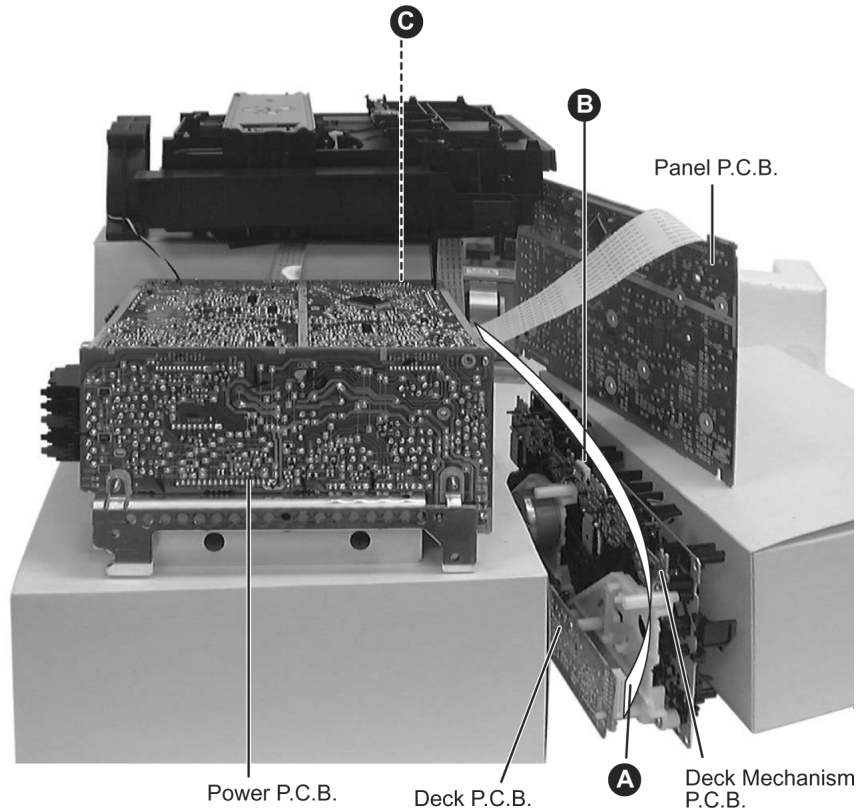
1. Remove Top Cabinet.
2. Remove CD Lid.
3. Disassemble CD Mechanism Unit.
4. Remove volume knob at Front Panel Unit.
5. Disassemble Panel P.C.B.
6. Disassemble Deck Mechanism Unit.
7. Use the extension cable (A) to reconnect (CN1001) Deck P.C.B. and (CN2803) Main P.C.B.
8. Use the extension cable (B) to reconnect (CP6401) Panel P.C.B. and (CN971) Deck Mechanism P.C.B.



Service Tools	
Extension FFC	
(A) Deck P.C.B. - Main P.C.B.	REEX0485 (14 Pins)
(B) Panel P.C.B. - Deck Mechanism P.C.B.	REEX0484 (10 Pins)

11.4. Checking of Power P.C.B.

1. Remove Top Cabinet and Rear Panel.
2. Remove CD Lid.
3. Disassemble CD Mechanism Unit.
4. Remove 3 screws at Transformer P.C.B..
5. Remove 2 screws at heat sink and 1 screw at Power P.C.B.
6. Flip the Power P.C.B.
7. Insulate the Power P.C.B. with insulation material to avoid short circuit.
8. Use the extension cable (A) to reconnect (CN1001) Deck P.C.B. and (CN2803) Main P.C.B.
9. Use the extension cable (B) to reconnect (CP6401) Panel P.C.B. and (CN971) Deck Mechanism P.C.B.
10. Use the extension cable (C) to reconnect (H5950/W5950) Power P.C.B. and (CN5950) Transformer P.C.B.



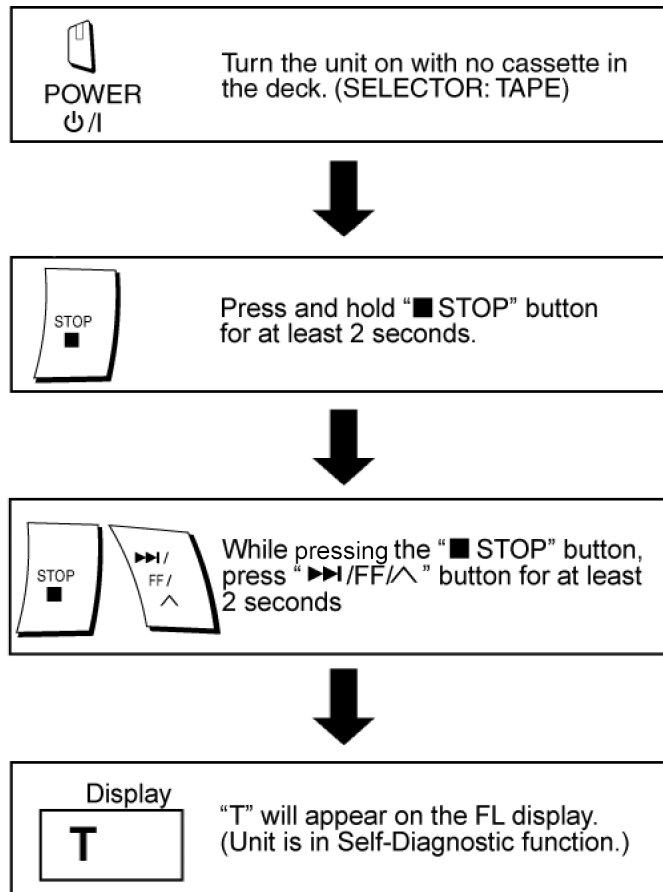
Service Tools	
Extension FFC	
(A) Deck P.C.B. - Main P.C.B.	REEX0485 (14 Pins)
(B) Panel P.C.B. - Deck Mechanism P.C.B.	REEX0484 (10 Pins)
(C) Power P.C.B. - Transformer P.C.B.	RFKAK330 (9 Pins)

12 Self-Diagnostic Function

12.1. Self-diagnostic display

This unit is equipped with a self-diagnostic display function which, will display an error code corresponding to the problem occurring. Use this function when performing checking maintenance on the unit.

12.2. How to enter the Self-Diagnostic Function



12.3. Cassette Mechanism Test (For error code H01, H02, H03, F01)

1. Press "TAPE, DECK 1/2" to select Deck 2.
2. Load a cassette tape with the erasure prevention tab, remove from left side only and close the cassette holder.
3. Press "FAST FORWARD MEMORY" (Tape will be stop after 2 seconds)
4. Load a cassette tape with the erasure prevention tab, remove from right side only and close the cassette holder.
5. Press "REVERSE FM MODE/BP" (Tape will be stop after 2 seconds)
6. Load a pre-recorded tape with both side record tabs intact and close the cassette holder.
7. Press "PLAY/TUNE/TIME ADJ UP" (After TPS function, tape will stop automatically)
8. Press "REC/STOP" (Tape will not move)
9. Press "STOP/TUNE MODE" to indicate Error code.
 - If several problem exist, error code will change each time when "n /STOP" is pressed.
(e.g. H01 → H03 → F01etc.)
10. Press "TAPE, DECK 1/2" to select Deck 1.
11. Repeat step 2 to 9 to test Deck 1. (Tape Deck 1 will not check H02 because of no recording function)

12.4. CD Mechanism Test (F15, F26, F16, F17, F27, F28, F29, F30, H15 & H16)

1. Press [▶/II, CD] (set to CD Mode) on main unit.
2. Press "CD DIRECT PLAY (1)" and [▲, OPEN/CLOSE] button on main unit.

3. Press **[▲, OPEN/CLOSE]** to close the tray.
 4. Press “CD DIRECT PLAY (5)” and **[▲, OPEN/CLOSE]** wait until the tray is open.
 5. Press **[▲, OPEN/CLOSE]** and remove the CD.
 6. Press **[▲, OPEN/CLOSE]** to close the tray.
 7. Press “n/STOP” to indicate Error Code.
- If several problem exist, error code will change each time when “n/STOP” is pressed. (e.g. F15 → F26 → F16etc).

12.5. To clear all Error code

1. Press **[■, STOP]** and hold button for 5 seconds.
2. FL indicator shows “CLEAR” for 1 second and change to “T”.

12.6. To exit from Self-Diagnostic function

1. Press **[⏻, POWER]** button on main unit or remote control.

12.7. Power Amplifier Failure (F61)

1. When power amplifier fail, F61 will indicate automatically.

12.8. Description of Error Code

12.8.1. Abnormality detection for Deck Mechanism block

No.	Abnormal Items	Error Display	Method of Detection
1	MODE SW abnormal	H01	Normal operation during mecha transition, MODE SW abnormal is memorized. The content of abnormality can be confirmed in the abnormal detection mode explained in the later section.
2	REC INH SW abnormal	H02	The content of abnormality can be confirmed in the abnormal detection mode explained in the later section.
3	HALF SW abnormal	H03	The content of abnormality can be confirmed in the abnormal detection mode explained in the later section.
4	Reel pulse abnormal	F01	The content of abnormality can be confirmed in the abnormal detection mode explained in the later section.

12.8.2. Abnormality detection for CD/Changer block

No.	Abnormal Items	Error Display	Method of Detection
1	REST SW abnormal	F15	Under normal operation (Self-Diagnostic Mode inclusive), this error occurs when the REST SW ON is not detected within the specified time and shall be memorized.
2	Transmission error between CD servo LSI and micon	F26	Under normal operation (Self-Diagnostic Mode inclusive), this error occurs when the selection is set to CD and SENSE='H' is detected and SENSE='L' is not detected within a fail safe time (20ms) after system command transmission was sent.
3	CLAMP SW abnormal	F16	Refer to section 12.8.4 (Mechanism Error Code Table) [M-0A] error is detected.
4	BOTTOM SW abnormal	F17	Refer to section 12.8.4 (Mechanism Error Code Table) [M-09] error is detected.
5	POSITION SW abnormal	F27	Refer to section 12.8.4 (Mechanism Error Code Table) [M-05 ~ M-08] error is detected.
6	SW1 abnormal	F28	Refer to section 12.8.4 (Mechanism Error Code Table) [M-02 ~ M-08] error is detected.
7	SW2 abnormal	F29	Refer to section 12.8.4 (Mechanism Error Code Table) [M-02 ~ M-08] error is detected.
8	OPEN SW abnormal	H15	Refer to section 12.8.4 (Mechanism Error Code Table) [M-01] error is detected.
9	CLOSE SW abnormal	H16	Refer to section 12.8.4 (Mechanism Error Code Table) [M-01] error is detected.
10	DISC SENSOR	F30	Refer to section 12.8.4 (Mechanism Error Code Table) [M-01] error is detected.

12.8.3. Power supply related error detection

No.	Abnormal Items	Error Display	Method of Detection
1	POWER AMP output abnormal	F61	During normal operation, if DCDT becomes 'L', normal POWER OFF process shall not be executed, PCNT shall be switched to 'L' immediately. GOODBYE shall not be displayed and the error display F61 will be displayed instead. 2 seconds after the F61 display, ECONO shall be set to 'L' and FL display shall be turned off. The error content shall be memorized when the abnormality occurs and can be displayed in the C-mecha self-diagnostic mode described later.

12.8.4. Error Code (CR20 Mechansim)

1. If mechanism problem occurs during normal or aging mode, the error code is “remembered” and shown on the FL display.
2. Reset Condition of Error Code
 - a. During cold start of micro-processor IC.
 - b. Restart of aging mode for the mechanism unit.
3. Mechanism Error Code

Mechansim Error Code Table

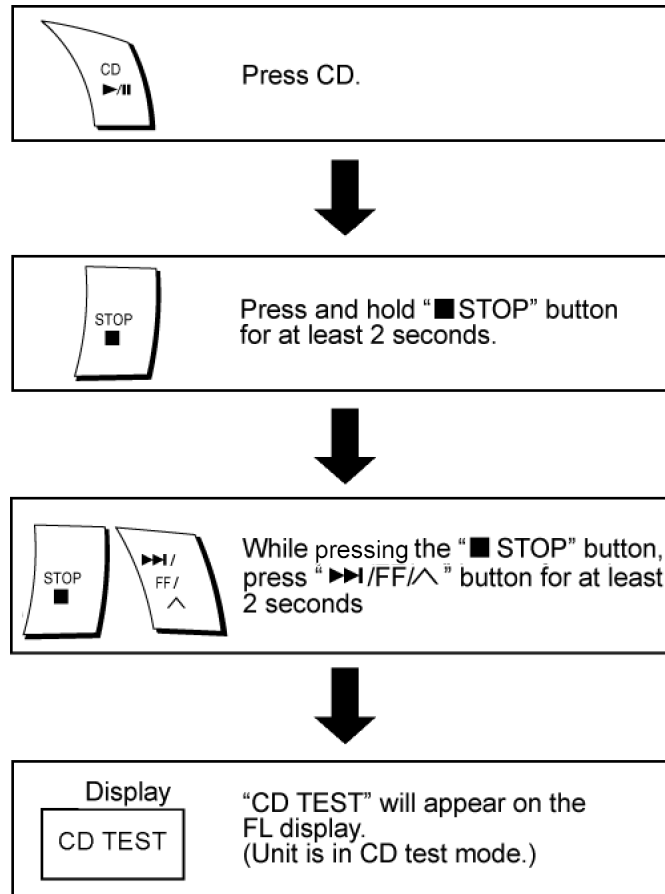
Error Code	Description
M-00	No Error
M-01	OPEN Position - Horizontal Motion Abnormality at play position
M-02	PLAY Position - Horizontal Motion Abnormality at stock position
M-03	PLAY Position - Horizontal Motion Abnormality during changing position
M-04	CHANGE Position - Horizontal Error of Stock position
M-05	CHANGE Position - Ascending motion Error
M-06	CHANGE Position - Descending motion Error
M-07	STOCK Position - Ascending motion Error
M-08	STOCK Position - Descending motion Error
M-09	Abnormality during change position (bottom switch)
M-0A	Clamp Error
M-0B	Access Failure - Access Time of more tha 30 secs (Total time of automatic → Read TOC → Track access)

4. When the mechanism unit stops due to error during aging model, error code is remembered and counts of the errors are displayed on the FL display.

13 CD Test Mode Function

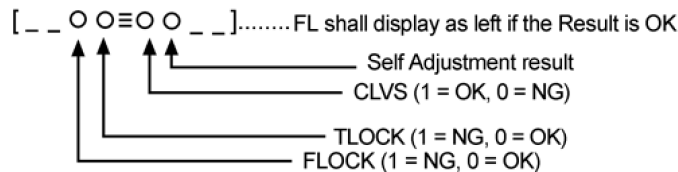
This CD test mode is provided to check CD unit without connecting to changer loading mechanism. This mode shall operate CD PLAY with CD unit being connected only and CD Automatic Alignment result is shown on FL display.

13.1. How to set CD test mode



13.2. CD Automatically Adjustment result indication

Under CD test mode, pressing the numeric key '0' on the remote controller will display the auto adjustment result. FLOCK, TLOCK and CLVS status shall be shown as below:



During the above display, executing CD PLAY will display auto adjustment result for CD PLAY mode.

13.3. CD Mecha Aging Test Mode (CR20)

1. Functional summary of CD aging test mode

It is for the purpose to determine the reliability of the CD changer.

2. To enter into CD aging test mode

- First, enter into self-diagnostic mode (Refer to Section 12.2. How to enter the Self-Diagnostic Function)
- In the self-diagnostic mode, switch the SELECTOR to and press . It will enter into CD aging test mode.

When in CD aging test mode, the following operation will begin and repeated:

- [DISC STOCKER] → DISC LOAD → TRAY OPEN (2 secs) → TRAY CLOSE] as one count.
- DISC 1 → DISC 2 → DISC 3 → DISC 4 → DISC 5 → DISC 1.....repeating this endlessly.

- While performing the above operation, the FL display will show the number of its operations starting from 00001. With reference to figure as below.

[H H H H H H H H]

- It shall move up one counter when the above operations ends. The counter will reset to 00000 when 99999 is reached.
- To exit CD aging test mode, press [⏏/I, POWER] button, the tray will return to its PLAY position and power will be off.

13.4. Micon ROM Checksum and Version Display Mode

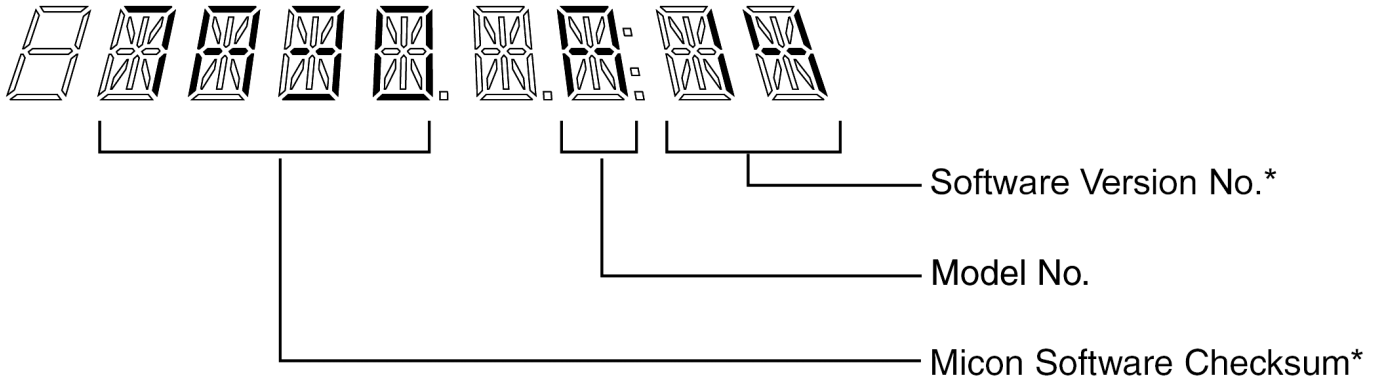
1. Functional Summary

Display version number and calculated checksum of the micon software.

2. To enter into Micon ROM checksum and Version Display Mode.

- Enter into Self-Diagnostic Mode (Refer to Section 12.2).
- In the Self-Diagnostic Mode, Press  twice.

The version number and the calculated ROM Checksum of the current software will be displayed on the FL as shown in this example:



*** Note: The Software Version No. & Micon Software Checksum differs from set to set.**

- The ROM Checksum is calculated on demand, not hard coded.
- The ROM Checksum is calculated by taking the arithmetic SUM of the ROM contents from the program's START address until the END address.

START address = [1080]H

END address = [FFFD]H

14 Measurements and Adjustments

14.1. Cassette Deck Section

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

14.1.1. Tape Speed Adjustment (Deck 1/2)

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

Adjustment target: 2940 ~ 3060 Hz (NORMAL speed)

4. After alignment, assure that the output frequency of the DECK 1 FWD are within ± 60 Hz of the value of the output frequency of DECK 2 FWD.

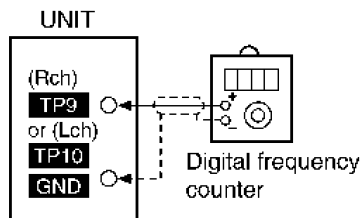


Fig.1

14.1.2. Bias and Erase Voltage Check

1. Set the unit "AUX" position.
2. Insert the Normal blank tape (QZZCRA) into DECK 2 and the unit to "REC" mode (use "1 REC/STOP" key).
3. Measure and make sure that the output is within the

standard value.

Bias voltage for Deck 2
Erase voltage for Deck 2

$14 \pm 4\text{mV}$ (Normal)
 80mV (Normal)

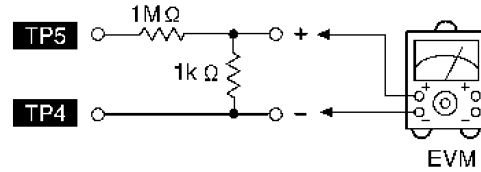


Fig.2

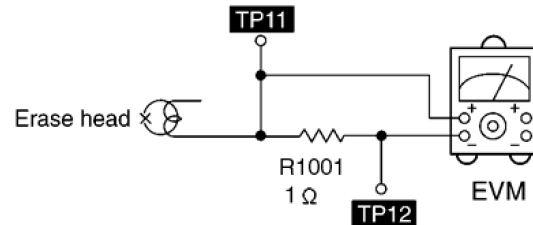


Fig.3

14.1.3. Bias Frequency Adjustment (Deck 1/2)

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

Standard Value: 97 ± 8 kHz

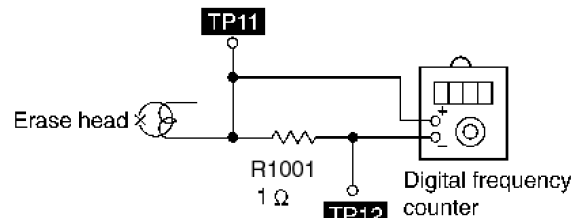


Fig.4

14.2. Tuner Section

14.2.1. AM-IF Alignment

1. Connect the instrument as shown in Fig.5.
2. Set the unit to AM mode.
3. Apply signal as shown in Fig. 5 from AM-SG.
4. Adjust Z2602 so that the output frequency is maximized in Fig. 6.

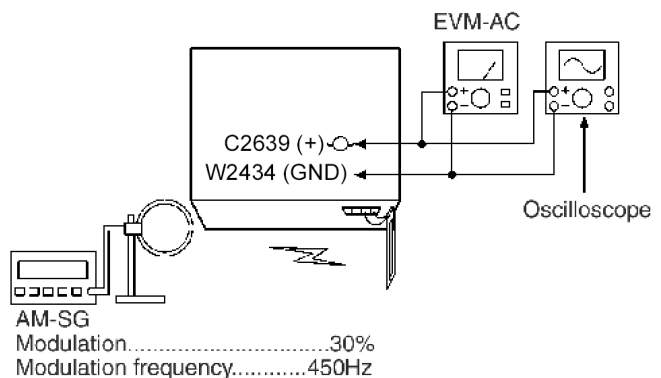


Fig.5

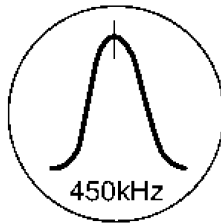


Fig.6

14.2.2. AM RF Adjustment

1. Connect the instrument as shown in Fig. 7.
2. Set the unit to AM mode.
3. Set AM-SG to 520kHz.
4. Receive 520kHz in the unit.
5. Adjust Z2602 (OSC) so that the EVM-AC is maximized.
6. Set AM-SG to 600Hz.
7. Receive 600Hz in the unit.
8. Adjust Z2602 (ANT) so that the EVM-SG is maximized.

9. Set AM-SG to 520kHz.

10. Receive 520kHz in the unit.

11. Adjust L2602 (OSC) so that the EVM-DC value is with $1.1 \pm 0.5V$.

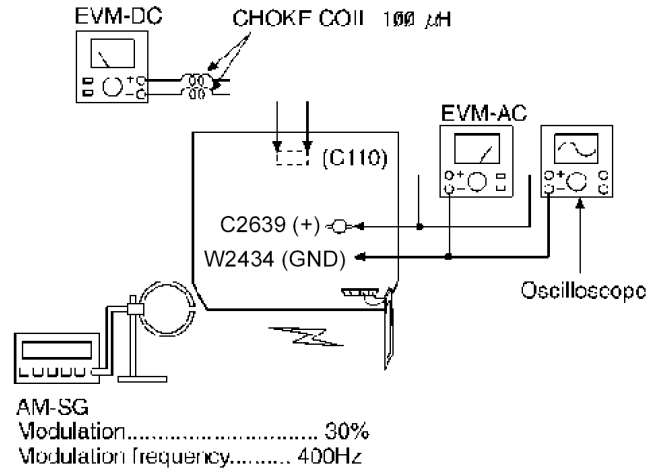
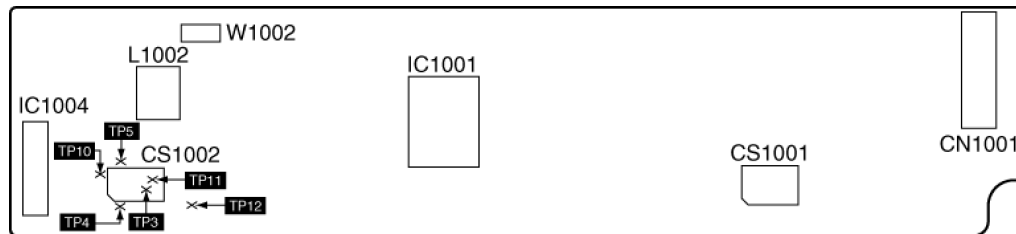


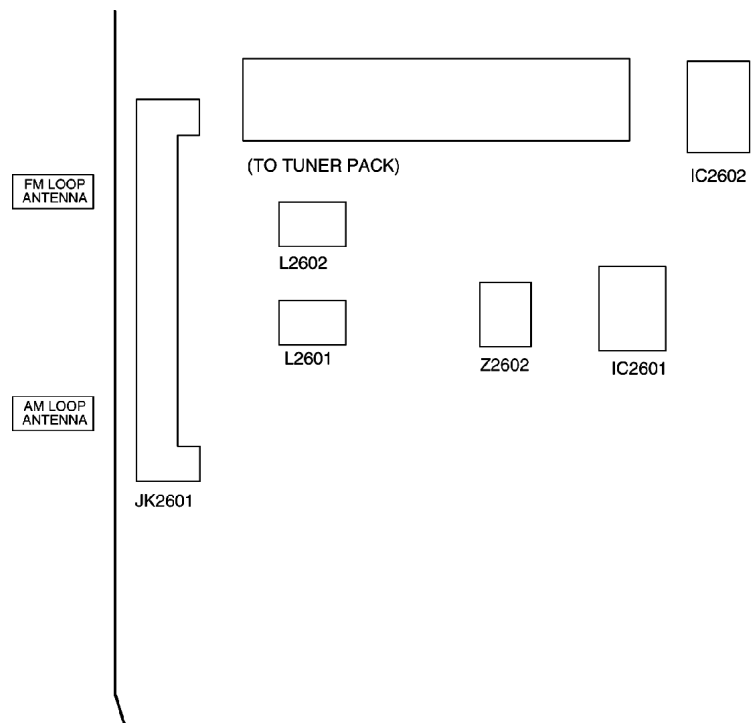
Fig.7

14.3. Alignment Points

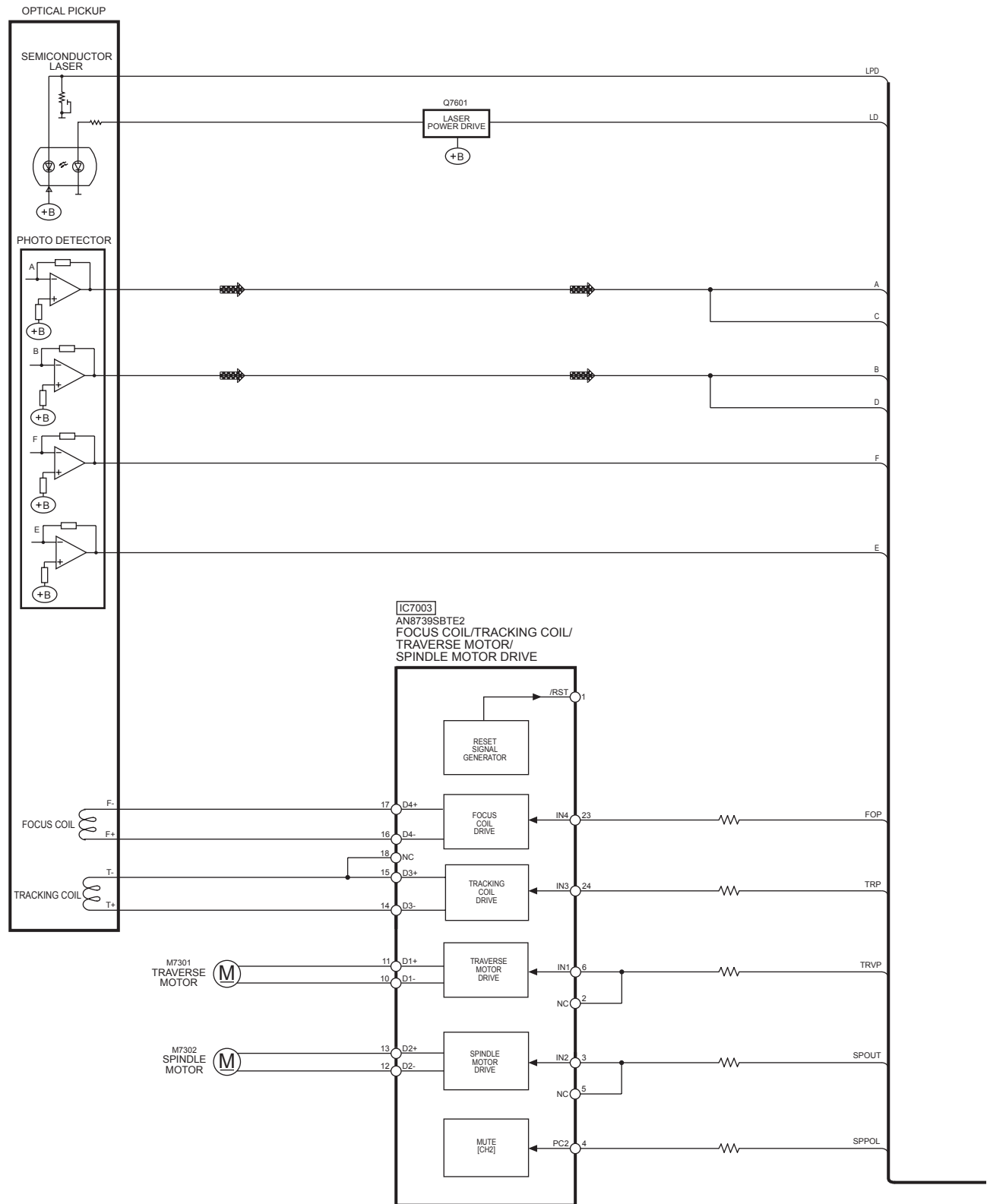
14.3.1. Cassette Deck Section

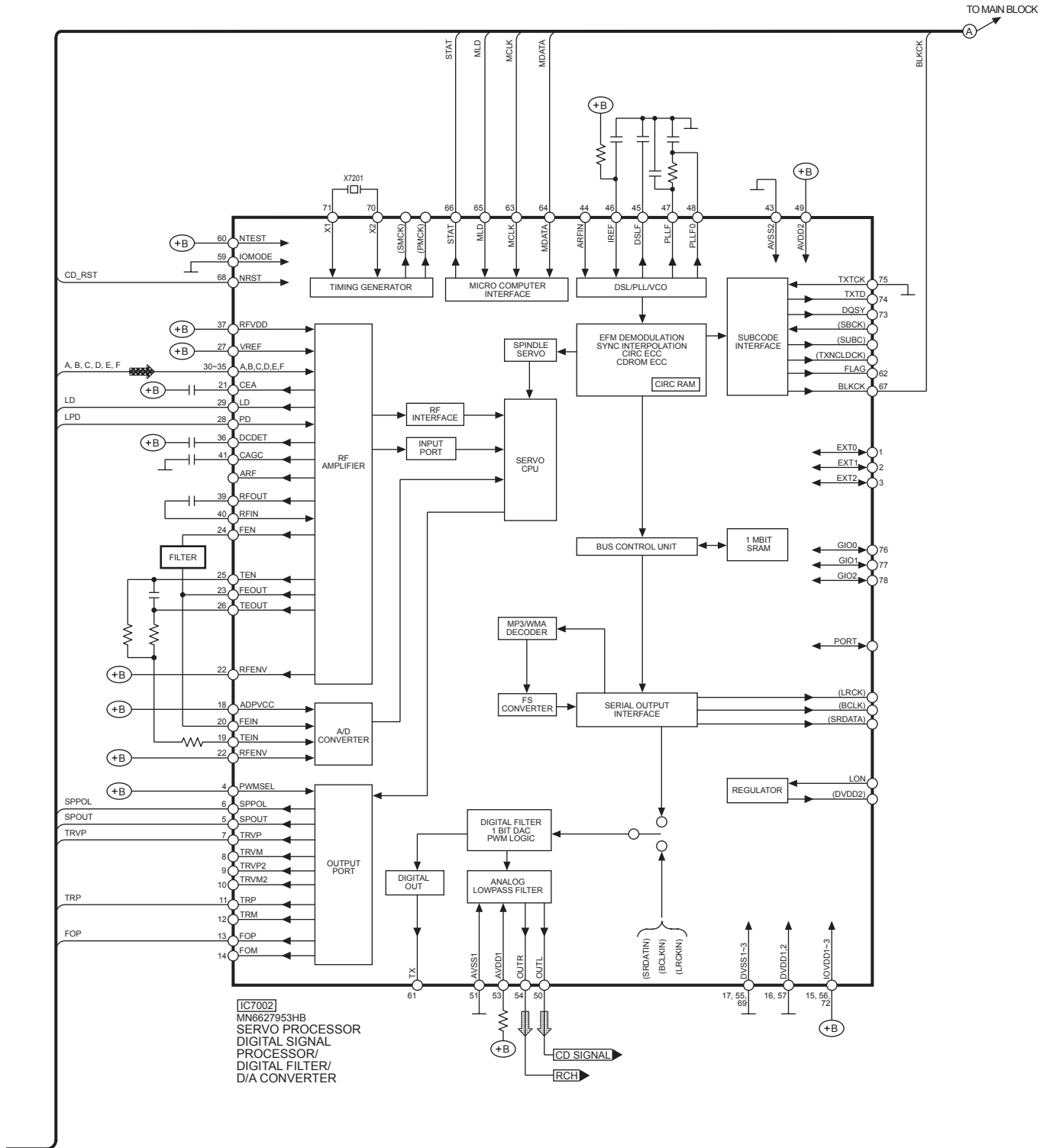


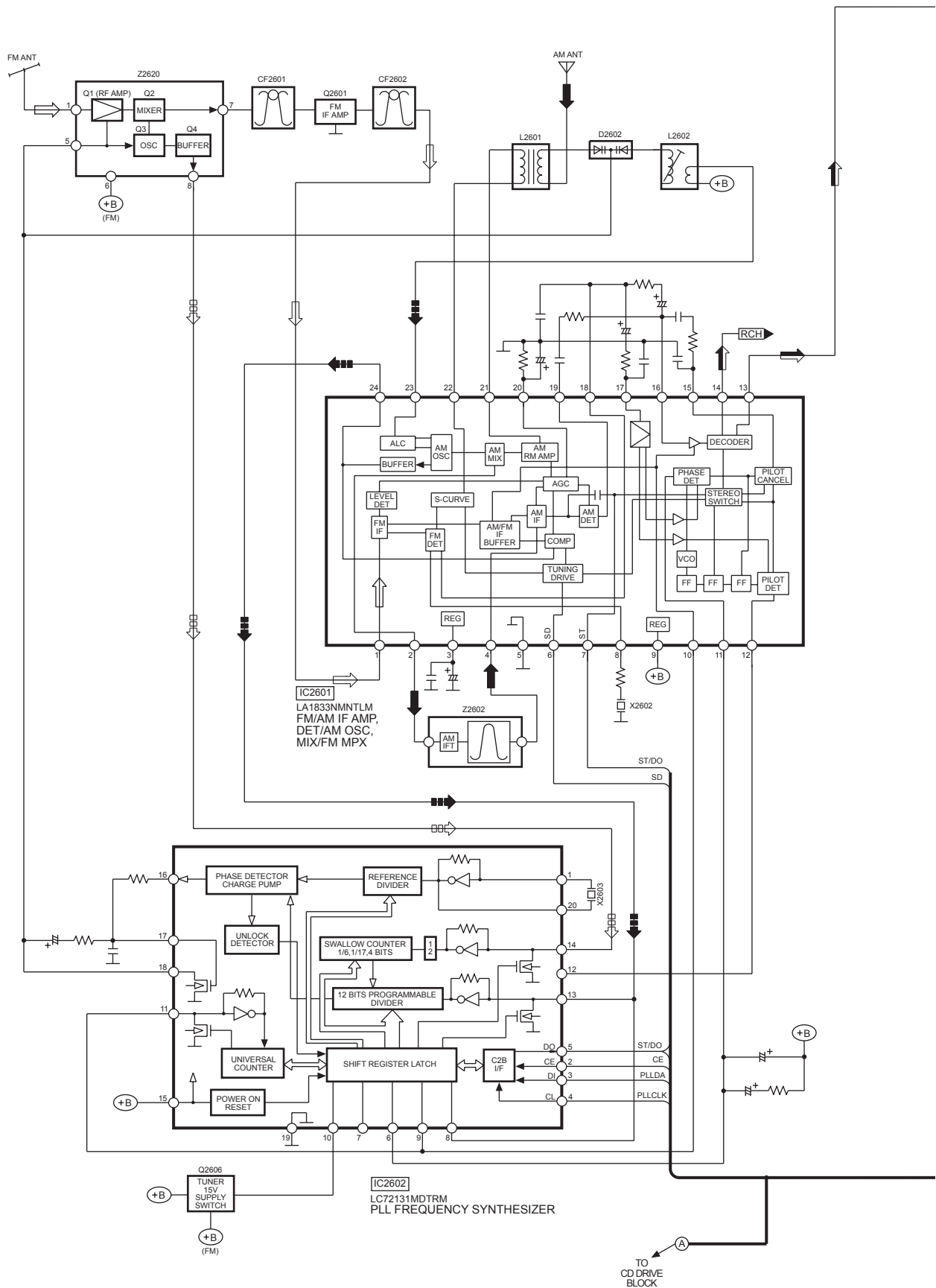
14.3.2. Tuner Section

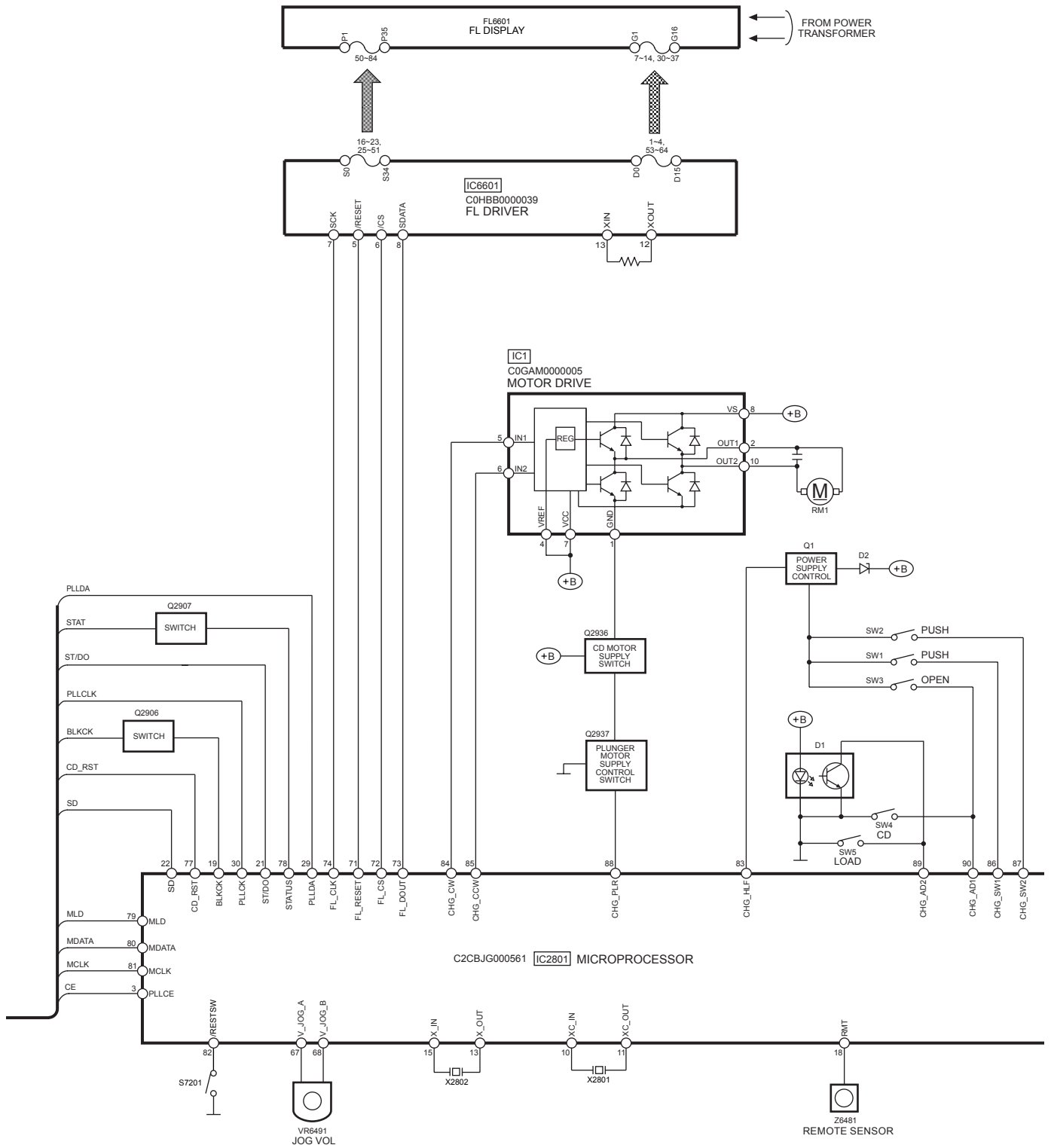


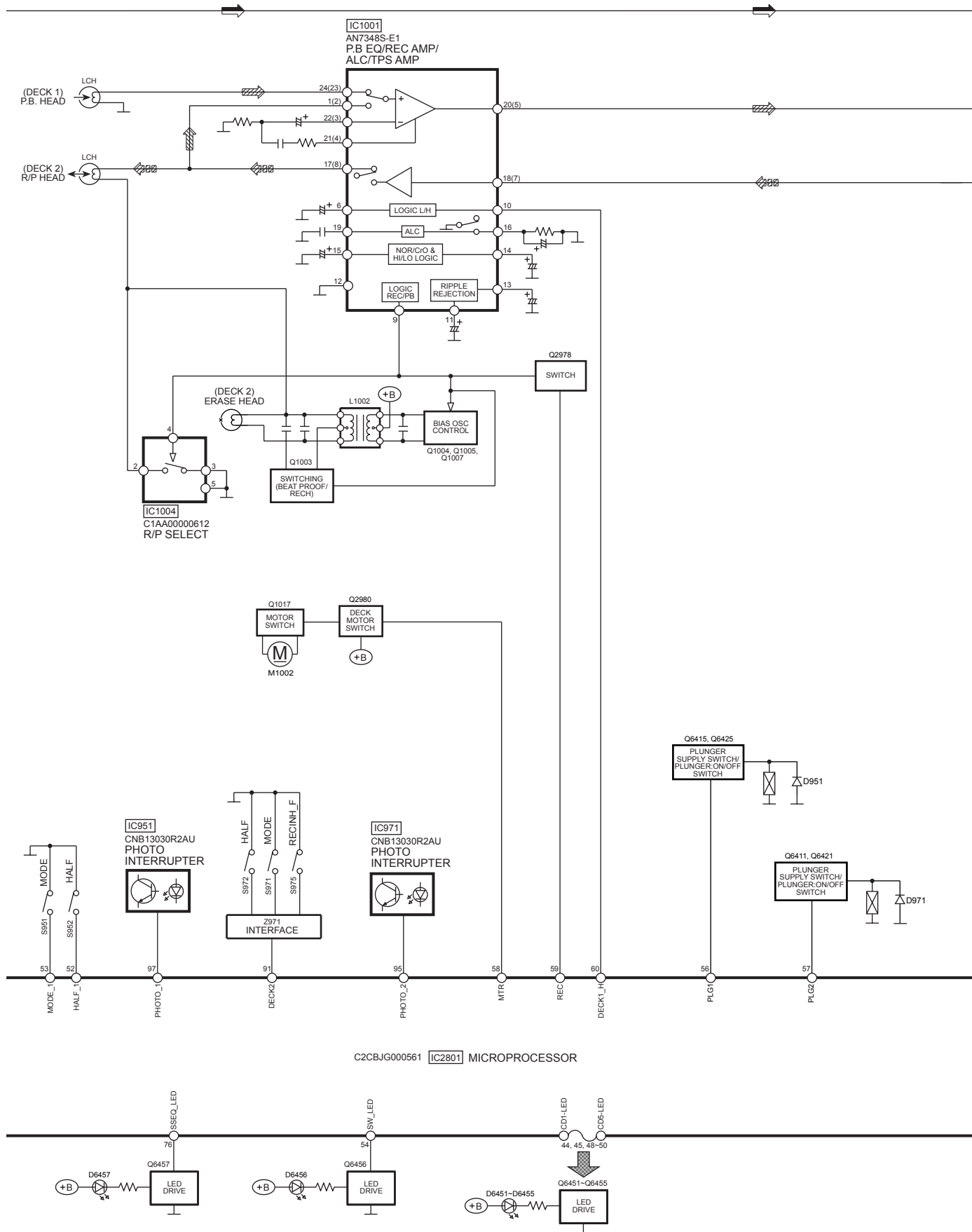
15 Block Diagram

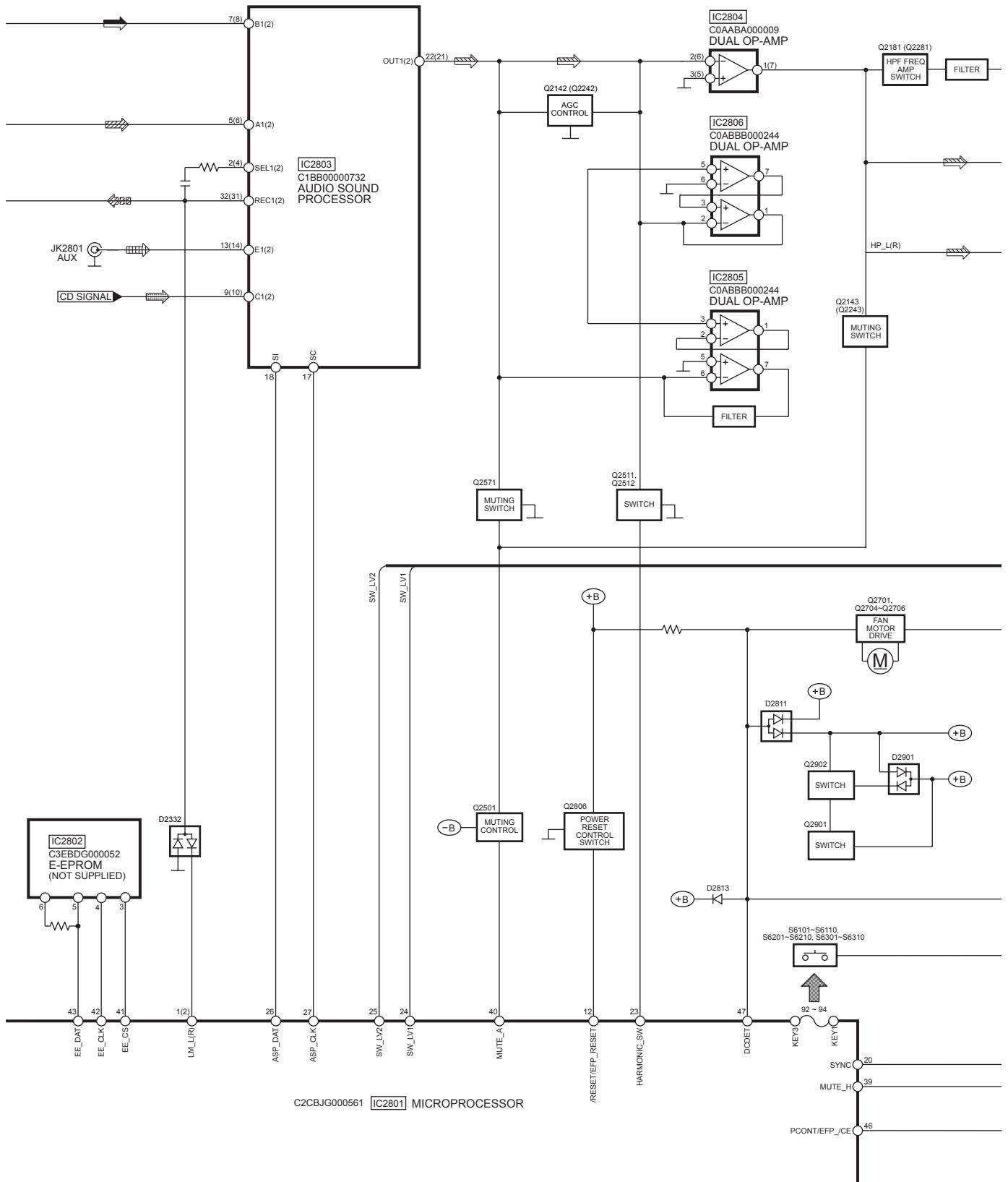


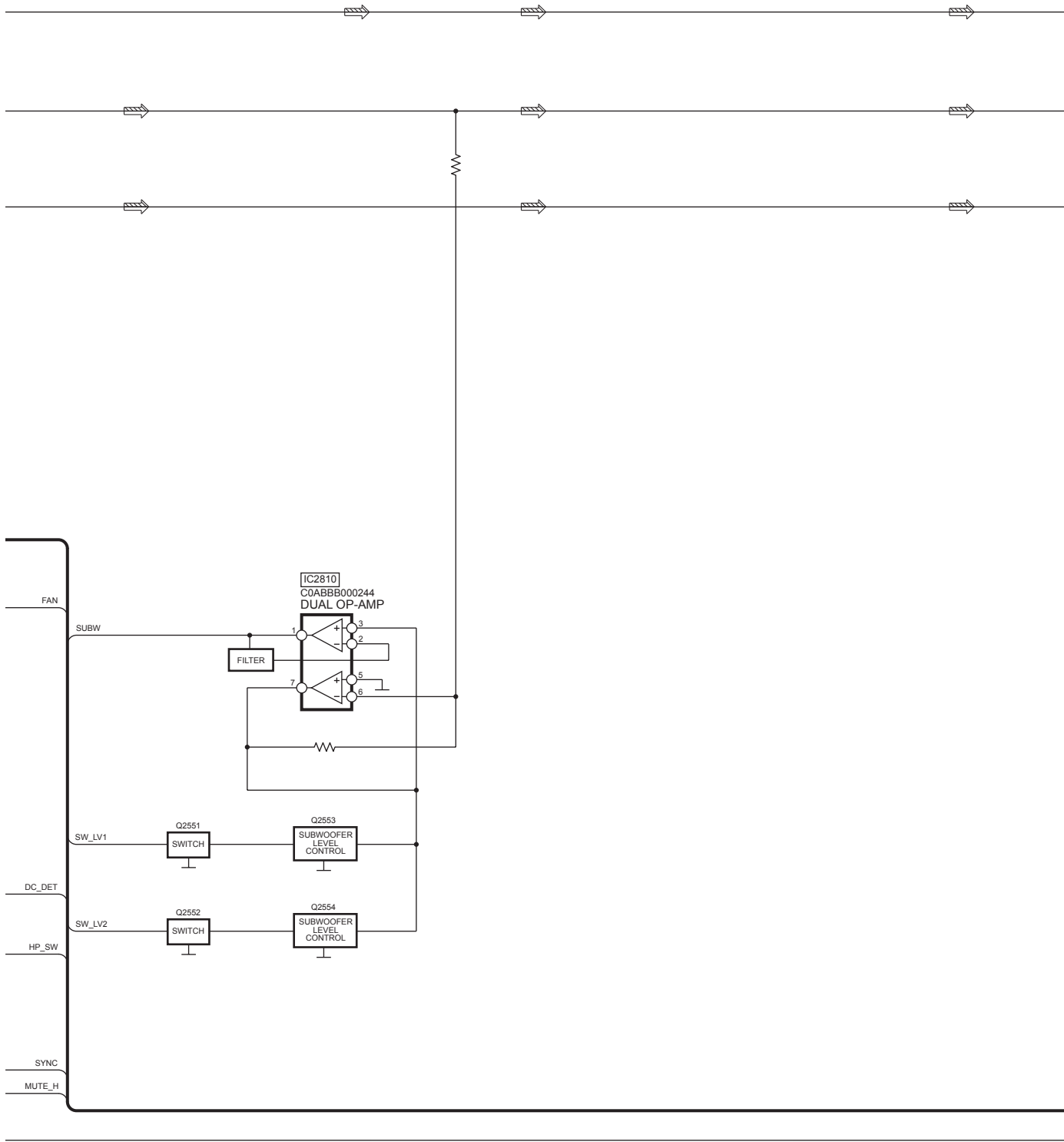


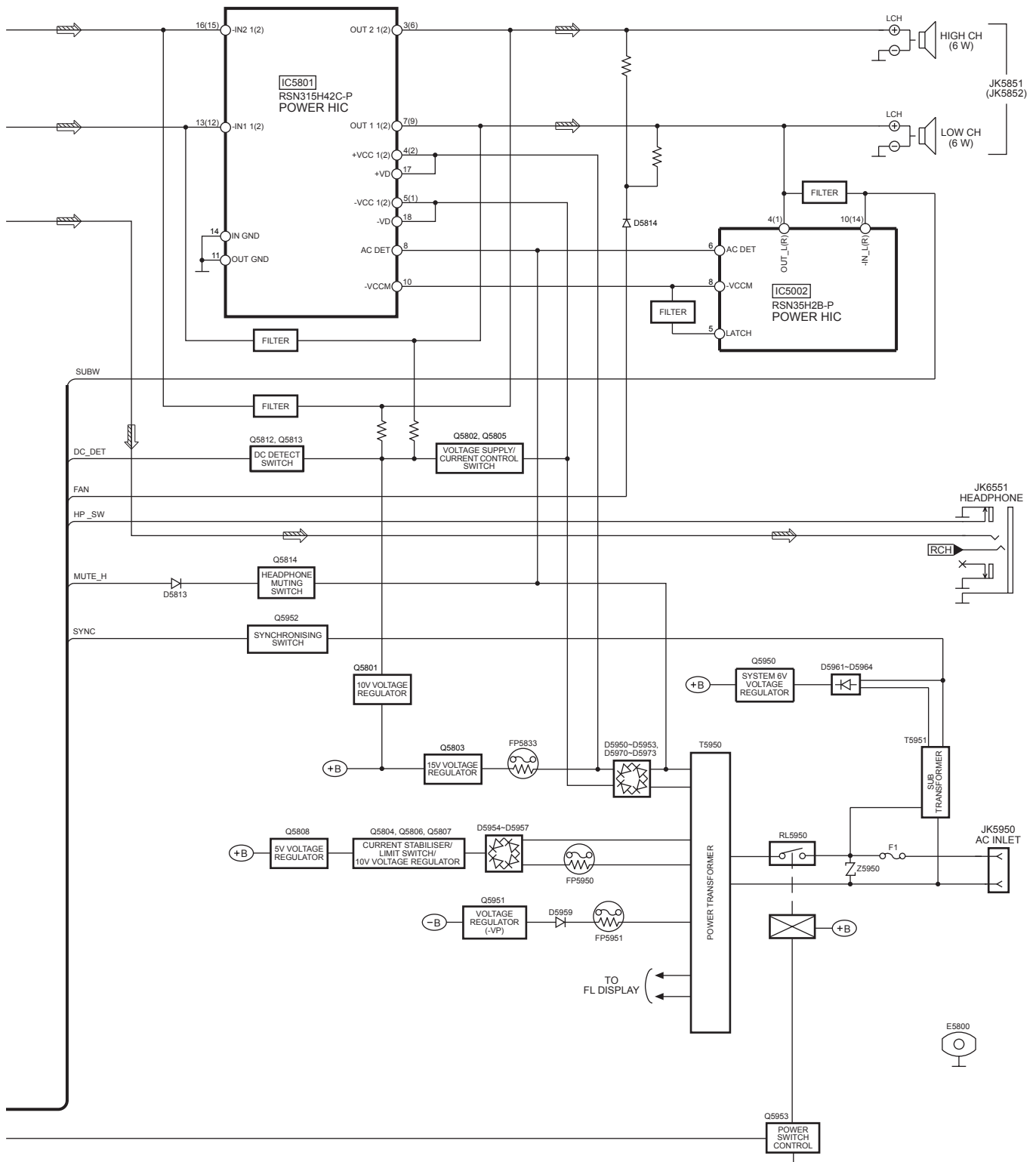












SIGNAL LINES

	: MAIN SIGNAL LINE		: CD SIGNAL LINE		: AM SIGNAL LINE		: PLAYBACK SIGNAL LINE
	: FM OSC SIGNAL LINE		: AM OSC SIGNAL LINE		: FM/AM SIGNAL LINE		: RECORD SIGNAL LINE
	: FM SIGNAL LINE		: AUX SIGNAL LINE		: CD-DA (AUDIO/VIDEO) SIGNAL LINE		

() Indicates the Pin No. of Right Channel.

NOTE : Signal Lines are applicable to the Left Channel only.

16 Voltage Measurement

Main P.C.B.

Ref No.	IC2601																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	1.98	5.95	1.99	1.98	0	4.90	5.17	3.82	5.95	0	4.87	3.52	1.604	1.6	1.93	1.99	1.984	2.21	0	0.125
PLAY	1.98	5.95	1.99	1.97	0	4.74	5.15	3.82	5.95	0	4.86	3.52	1.59	1.595	1.93	1.989	1.981	2.20	0	0.125
STOP	1.99	5.96	1.99	1.98	0	4.92	5.17	3.83	5.95	0	4.87	3.52	1.59	1.6	1.93	1.99	1.981	2.20	0	0.125

Ref No.	IC2601																			
MODE	21	22	23	24																
REC	2.357	2.357	5.95	4.57																
PLAY	2.35	2.35	5.95	4.56																
STOP	2.35	2.35	5.95	4.57																

Ref No.	IC2602																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	2.59	0	0	0	5.18	4.95	0	4.63	0	14.94	0	0	2.59	0	5.19	0	0	14.94	0	2.59
PLAY	2.57	0	0	0	5.16	4.86	0	4.55	0	15.18	0	0	2.59	5.19	5.19	0	0	15.23	0	2.58
STOP	2.57	0	0	0	5.16	4.86	0	4.55	0	15.18	0	0	2.59	5.19	5.19	0	0	15.23	0	2.58

Ref No.	IC2801																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	0	0	0	0	0	0	0	0	0	0.669	0.69	5.25	2.68	0	2.6	0	0	5.25	3.1	5.20
PLAY	0	0	0	0	0	0	0	0	0	0.67	0.68	5.25	2.68	0	2.6	0	0	5.224	3.1	5.20
STOP	0	0	0	0	0	0	0	0	0	0.67	0.67	5.25	2.68	0	2.62	0	0	5.224	3.1	5.20

Ref No.	IC2801																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
REC	4.95	0	0	0	0	0	5.28	0	0	0	0	0	0	0	0	0	0	0	0	0
PLAY	4.95	0	0	0	0	0	5.26	0	0	0	0	0	0	0	0	0	0	0	0	0
STOP	4.95	0	0	0	0	0	5.26	0	0	0	0	0	0	0	0	0	0	5.224	0	0

Ref No.	IC2801																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
REC	0	0	0	0	0	5.18	5.16	0	0	0	0	0	4.79	0	0	0	0	0	5.25	0
PLAY	0	0	0	0	0	5.17	5.15	0	0	0	0	0	4.78	0	0	0	0	0	5.25	0
STOP	0	0	0	0	0	5.18	5.15	0	0	0	0	0	4.79	0	0	0	0	0	5.25	0

Ref No.	IC2801																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
REC	0	5.25	0	0	0	0	0	5.25	0	0	0	3.0	0.3	0	0	0	5.25	3.0	0	0.5
PLAY	0	5.25	0	0	0	0	0	5.25	0	0	0	3.0	0.31	0	0	0	5.25	3.0	0	0.5
STOP	0	5.25	0	0	0	0	0	5.25	0	0	0	3.1	0.3	0	0	0	5.25	3.1	0	0.5

Ref No.	IC2801																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
REC	4.91	0	0	5.24	5.25	0	0	0	0	3.65	5.25	1.24	5.25	5.23	4.38	0.59	0	5.25	5.25	5.18
PLAY	4.91	0	0	5.25	5.25	0	0	0	0	3.65	5.22	1.24	5.25	5.23	4.38	0.58	0	5.25	5.26	5.18
STOP	4.92	0	0	5.25	5.25	0	0	0	0	3.65	5.24	1.24	5.25	5.23	4.38	0.59	0	5.25	5.25	5.19

Ref No.	IC2803																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
REC	4.52	4.60	4.52	4.60	4.50	4.49	4.49	4.49	4.50	4.50	4.49	4.49	4.49	4.45	4.54	0	5.17	0	9.03	3.38
PLAY	4.52	4.60	4.50	4.61	4.52	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.54	0	5.20	0	9.02	3.38
STOP	0	5.27	0	0	0	0	0	0												

Ref No.	IC2803																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32								
REC	4.54	4.54	4.54	4.52	4.52	4.51	4.54	4.53	4.54	4.53	4.54	4.55								
PLAY	4.54	4.55	4.55	4.53	4.52	4.51	4.54	4.53	4.54	4.54	4.54	4.55								
STOP	4.54	4.55	4.55	4.53	4.52	4.57	4.54	4.53	4.54	4.54	4.54	4.55								

Ref No.	IC2805																		
MODE	1	2	3	4	5	6	7	8											
REC	0	0	0	-8.89	0	0	0	9.03											
PLAY	0	0	0	-8.90	0	0	0	9.03											
STOP	0	0	0	-8.90	0	0	0	9.05											

Ref No.	IC2806																		
MODE	1	2	3	4	5	6	7	8											
REC	0	0	0	0	0	0	0	9.05											
PLAY	0	0	0	0	0	0	0	9.04											
STOP	0	0	0	0	0	0	0	9.05											

Main P.C.B.

Ref No.	Q2601				Q2606				Q2701				Q2901				Q2902			
MODE	E/S	C/D	B/G		E/S	C/D	B/G		E/S	C/D	B/G		E/S	C/D	B/G		E/S	C/D	B/G	
REC	0	0	0		14.79	0	14.79		-8.92	-8.84	-8.18		5.54	3.28	6.5		2.98	5.56	2.4	
PLAY	0	0	0		15.17	0	15.20		-8.92	-8.81	-8.17		5.60	3.29	6.24		3.02	5.58	2.48	
STOP	0	0	0		15.26	0	15.22		-8.96	4.78	-8.95		7.08	3.3	7.65		3.04	7.08	2.5	

Main P.C.B.

Ref No.	Q2936																			
MODE	E/S	C/D	B/G																	
PLAY	9.92	0	9.94																	
PLAY	9.95	0	9.95																	
STOP	9.99	0	9.99																	

Transformer P.C.B.

Ref No.	Q5950				Q5951				Q5952				Q5953							
MODE	E/S	C/D	B/G		E/S	C/D	B/G		E/S	C/D	B/G		E/S	C/D	B/G					
REC	5.98	10.12	6.60		-25.86	-29.20	-26.50		-8.92	-8.84	-8.18		0	0.13	0.8					
PLAY	5.99	10.30	6.59		-25.85	-29.22	-26.50		-8.92	-8.81	-8.17		0	0.13	0.8					
STOP	5.99	10.25	6.59		-25.85	-29.22	-26.50		-8.96	4.78	-8.95		0	0.13	0.8					

17 Schematic Diagram

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

Note:

SW1	: Push switch
SW2	: Push switch
SW3	: Open switch
SW4	: CD switch
SW5	: Load switch
S951	: Mode switch
S952	: Half switch
S971	: Mode switch
S972	: Half switch
S975	: Recinh_F switch
S6101	: Open/ Close switch
S6102	: CD 1 switch
S6103	: CD 2 switch
S6104	: CD 3 switch
S6105	: CD 4 switch
S6106	: CD 5 switch
S6107	: Left switch
S6108	: Down switch
S6109	: Right switch
S6110	: Up switch
S6201	: Rew switch
S6202	: Tuner switch
S6203	: CD switch
S6204	: FF switch
S6205	: Stop switch
S6206	: Deck 1/2 switch
S6207	: Deck 2 switch
S6208	: TAPE switch
S6209	: AUX switch
S6210	: Deck 1 switch
S6301	: Power switch
S6303	: H.Bass switch
S6304	: REC switch
S6305	: Demo/Display switch
S6306	: Sub-woofer switch
S6307	: Delete switch
S6308	: Marker switch
S6309	: Title Search switch
S6310	: Enter switch
S7201	: Rest switch
VR6491	: VR Volume Jog

- The voltage value and waveforms are the reference voltage of this unit measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis. Accordingly, there may arise some error in voltage values and waveforms depending upon the internal impedance of the tester or the measuring unit.

• 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.

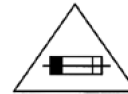
Caution !

IC, LSI and VLSI are sensitive to static electricity.

Secondary trouble can be prevented by taking care during repair.

- Cover the parts boxes made of plastics with aluminium foil.
- Put a conductive mat on the work table.
- Ground the soldering iron.
- Do not touch the pins of IC, LSI or VLSI with fingers directly.

CAUTION : FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE **F1, 4A, 125V FUSE**.



RISK OF FIRE-REPLACE FUSE AS MARKED.

FUSE CAUTION



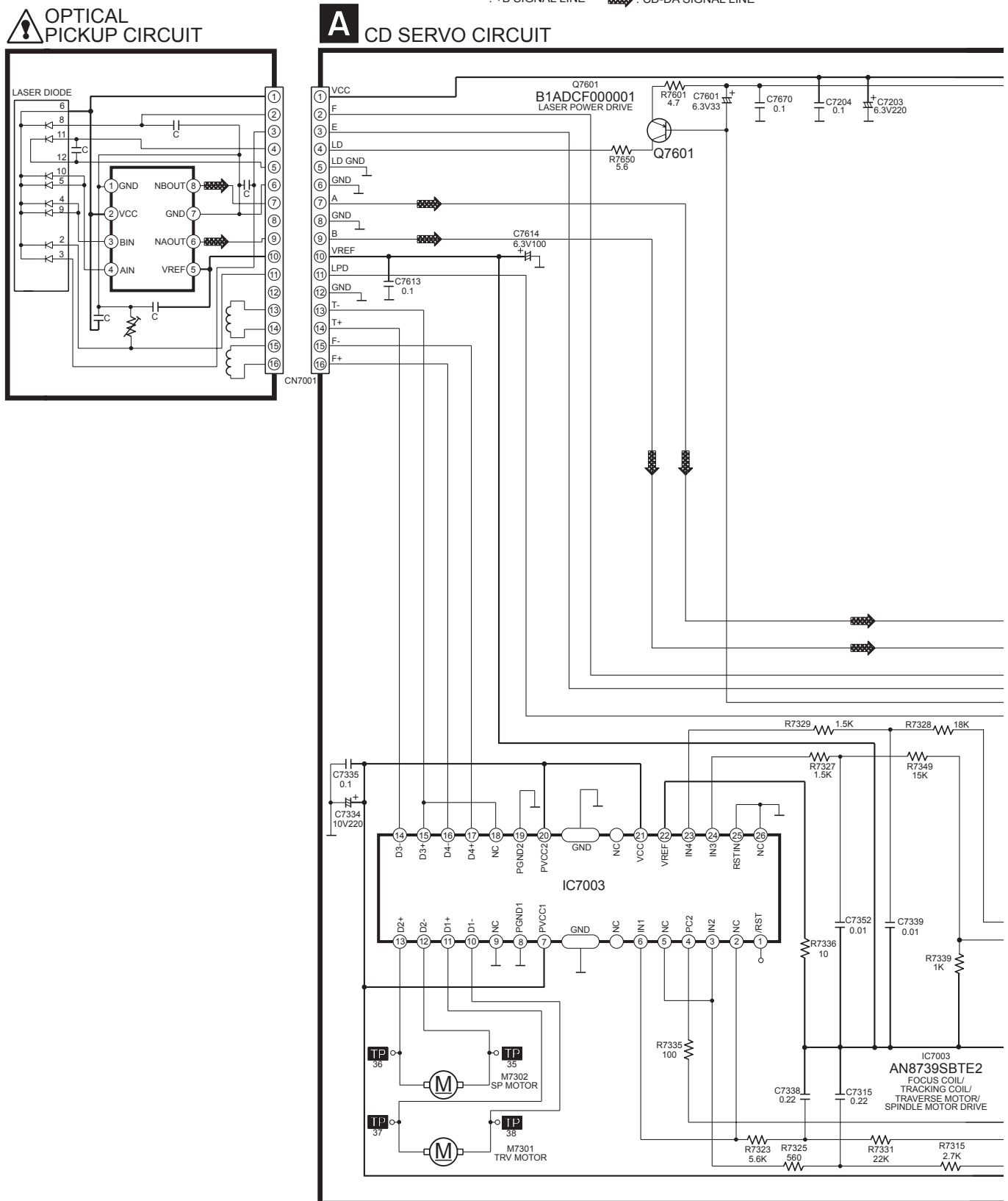
These symbols located near the fuse indicates that the fuse used is a fast operating type. For continued protection against fire hazard, replace with the same type fuse. For fuse rating, refer to the marking adjacent to the symbol.



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.

17.1. (A) CD Servo Circuit

SCHEMATIC DIAGRAM - 1



SCHEMATIC DIAGRAM - 2

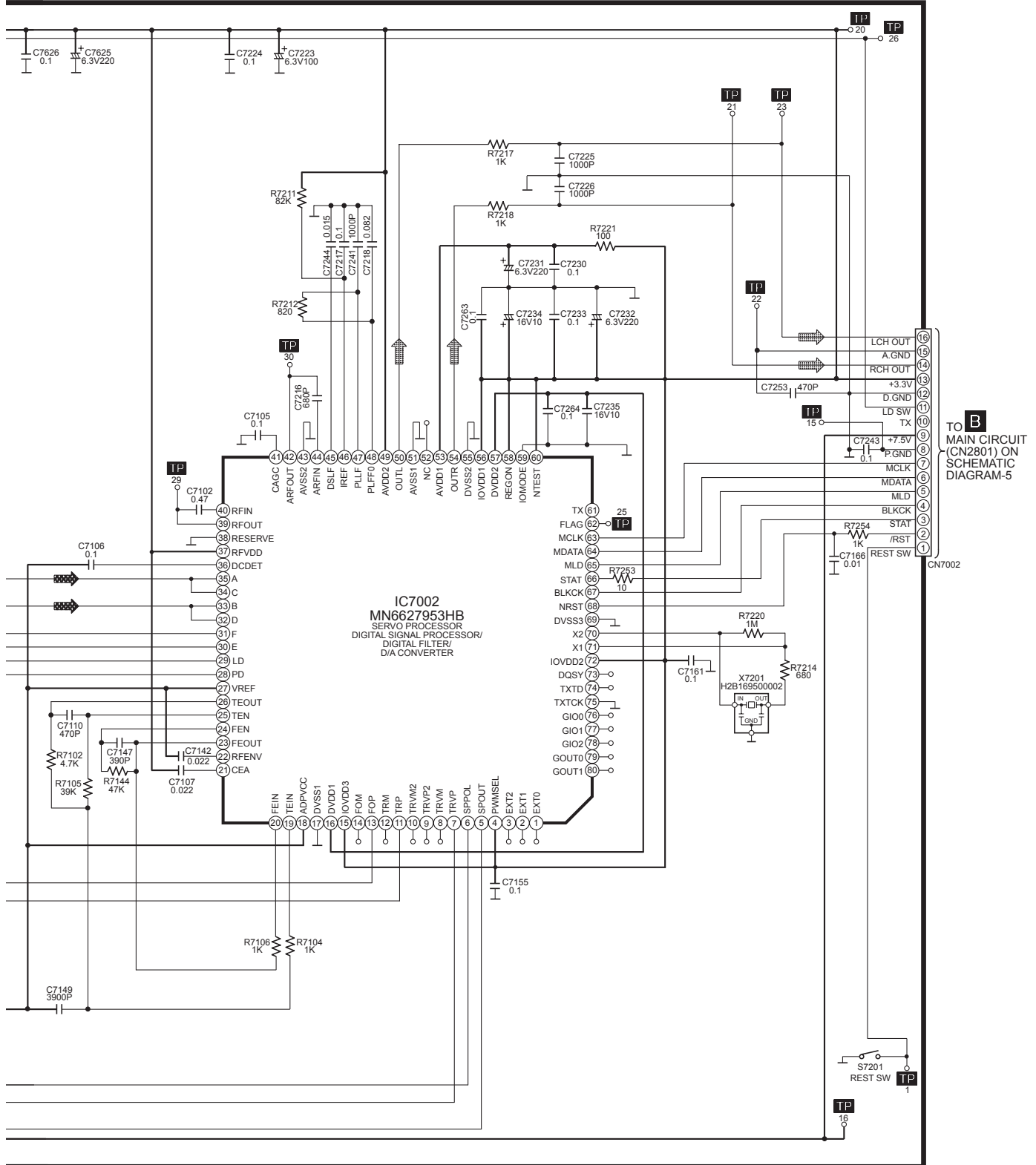
— : +B SIGNAL LINE

▨ : CD-DA SIGNAL LINE

▨ : CD SIGNAL LINE

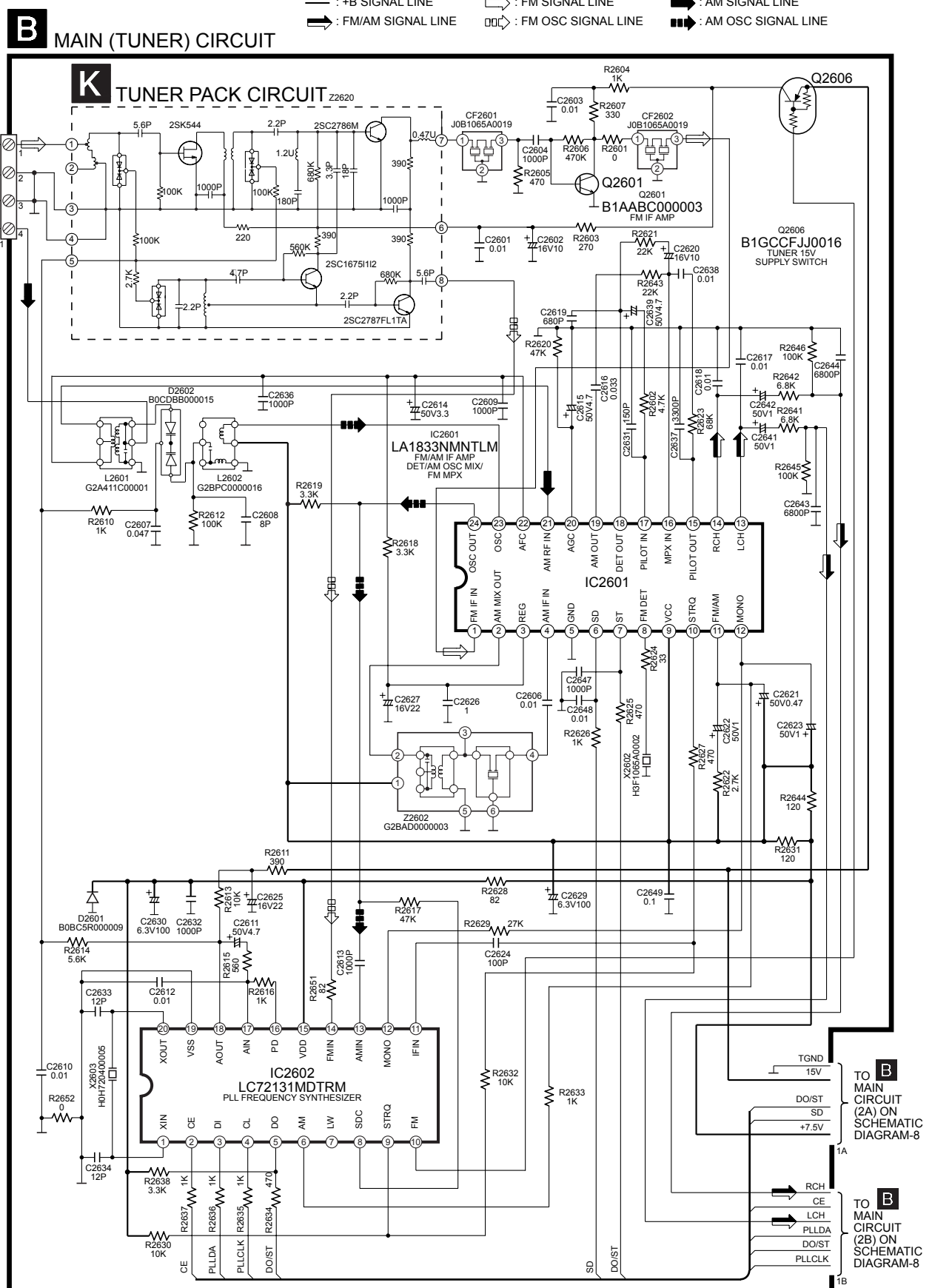
A

CD SERVO CIRCUIT



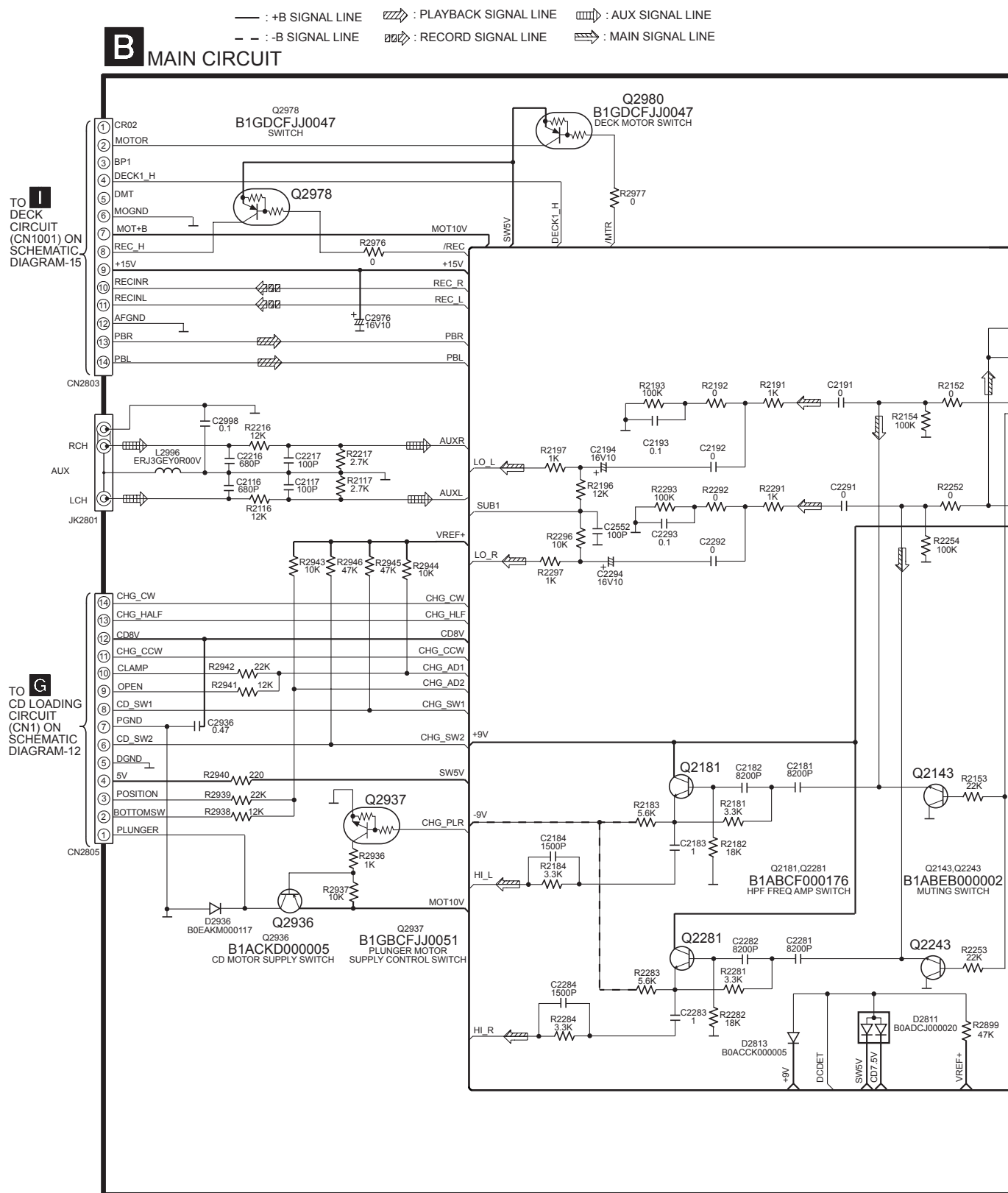
17.2. (B) Main (Tuner) Circuit

SCHEMATIC DIAGRAM - 3



17.3. (B) Main Circuit

SCHEMATIC DIAGRAM - 4



SCHEMATIC DIAGRAM - 5

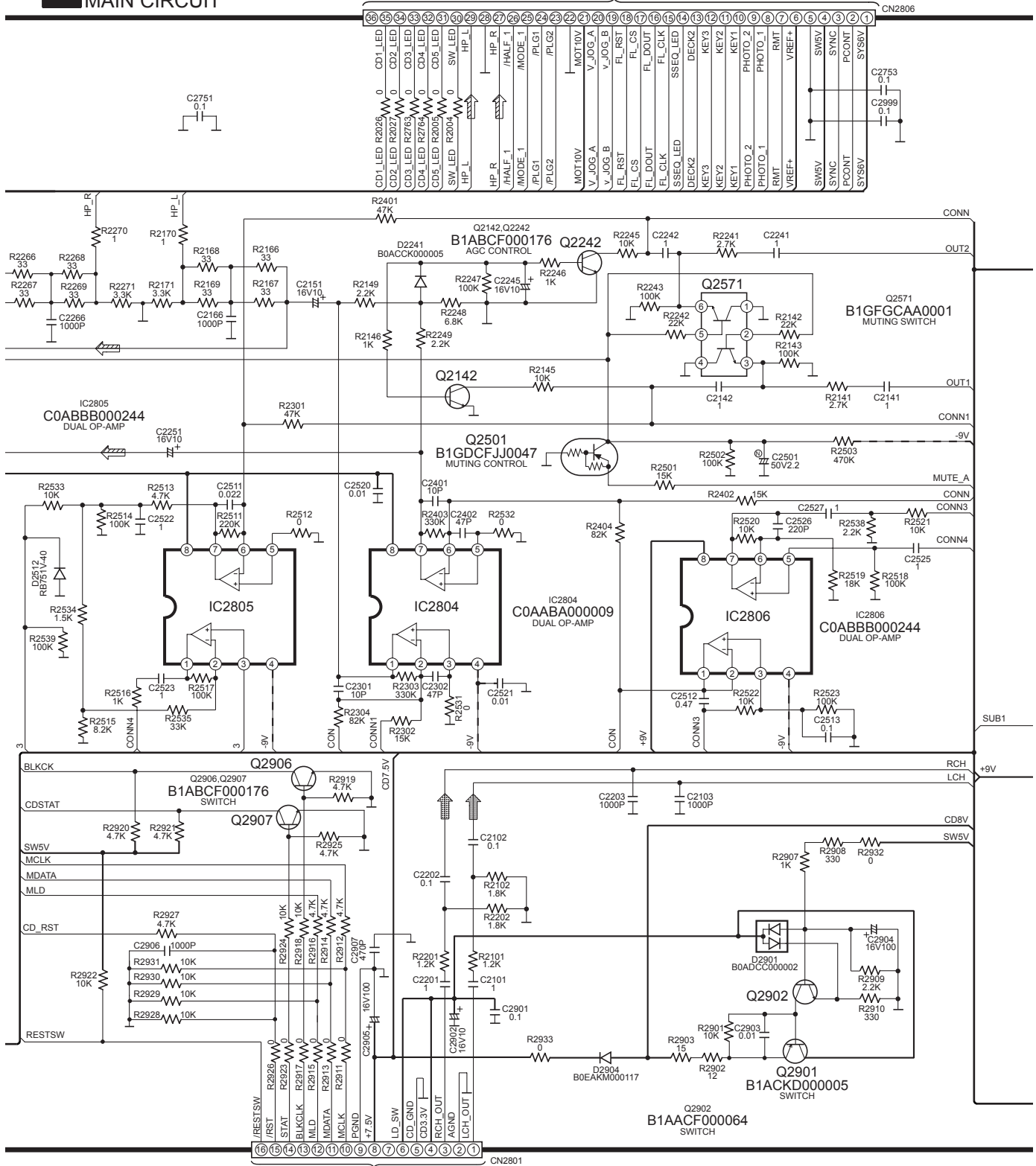
B

MAIN CIRCUIT

— : +B SIGNAL LINE
 - - : -B SIGNAL LINE

▬ : CD SIGNAL LINE
 ▬ : MAIN SIGNAL LINE

TO **C**
 PANEL CIRCUIT
 (CN6601) ON
 SCHEMATIC DIAGRAM-10

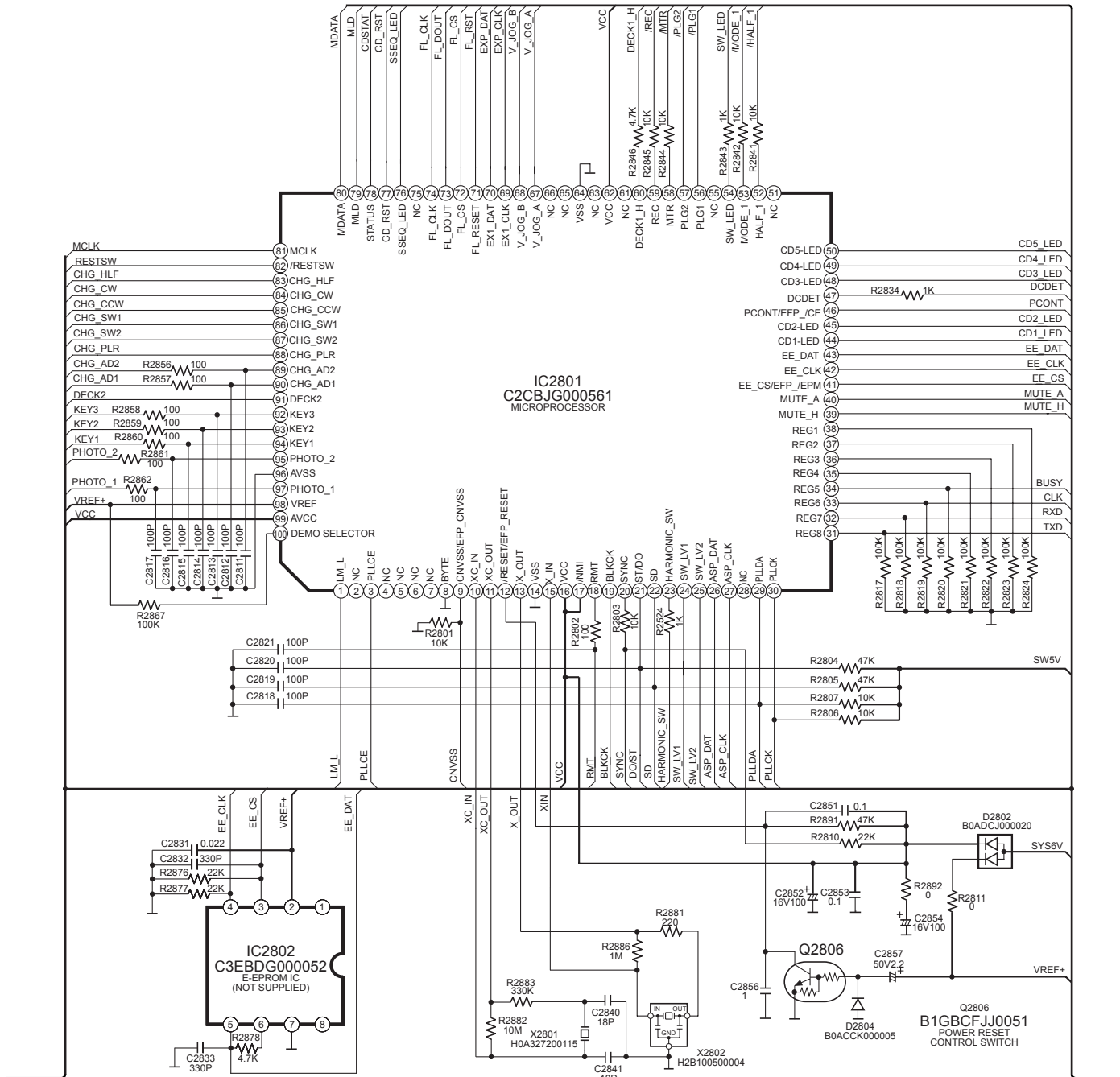


TO **A**
 CD SERVO CIRCUIT
 (CN7002) ON
 SCHEMATIC DIAGRAM-2

SCHEMATIC DIAGRAM - 7

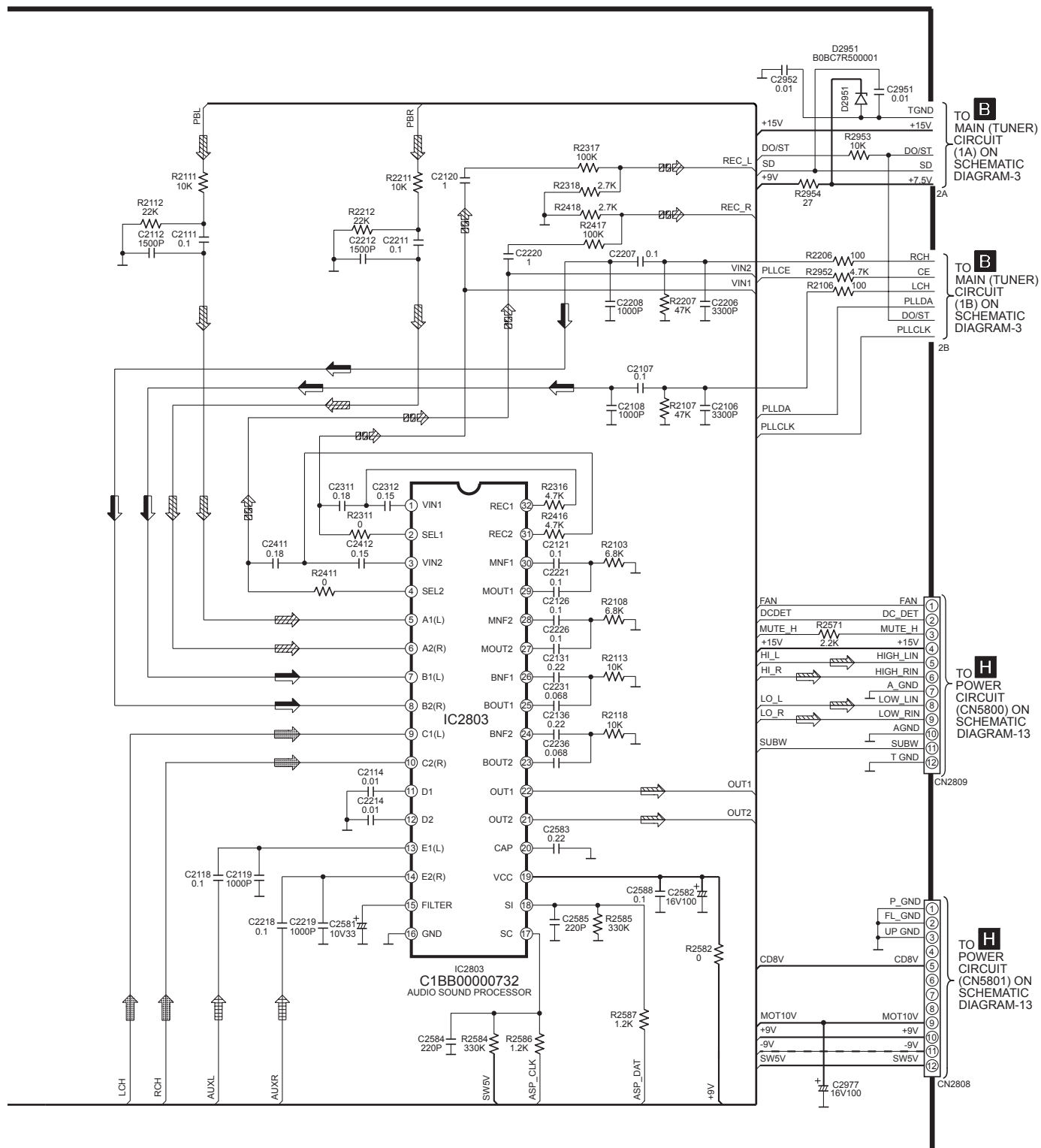
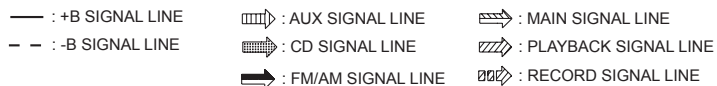
B MAIN CIRCUIT

— : +B SIGNAL LINE



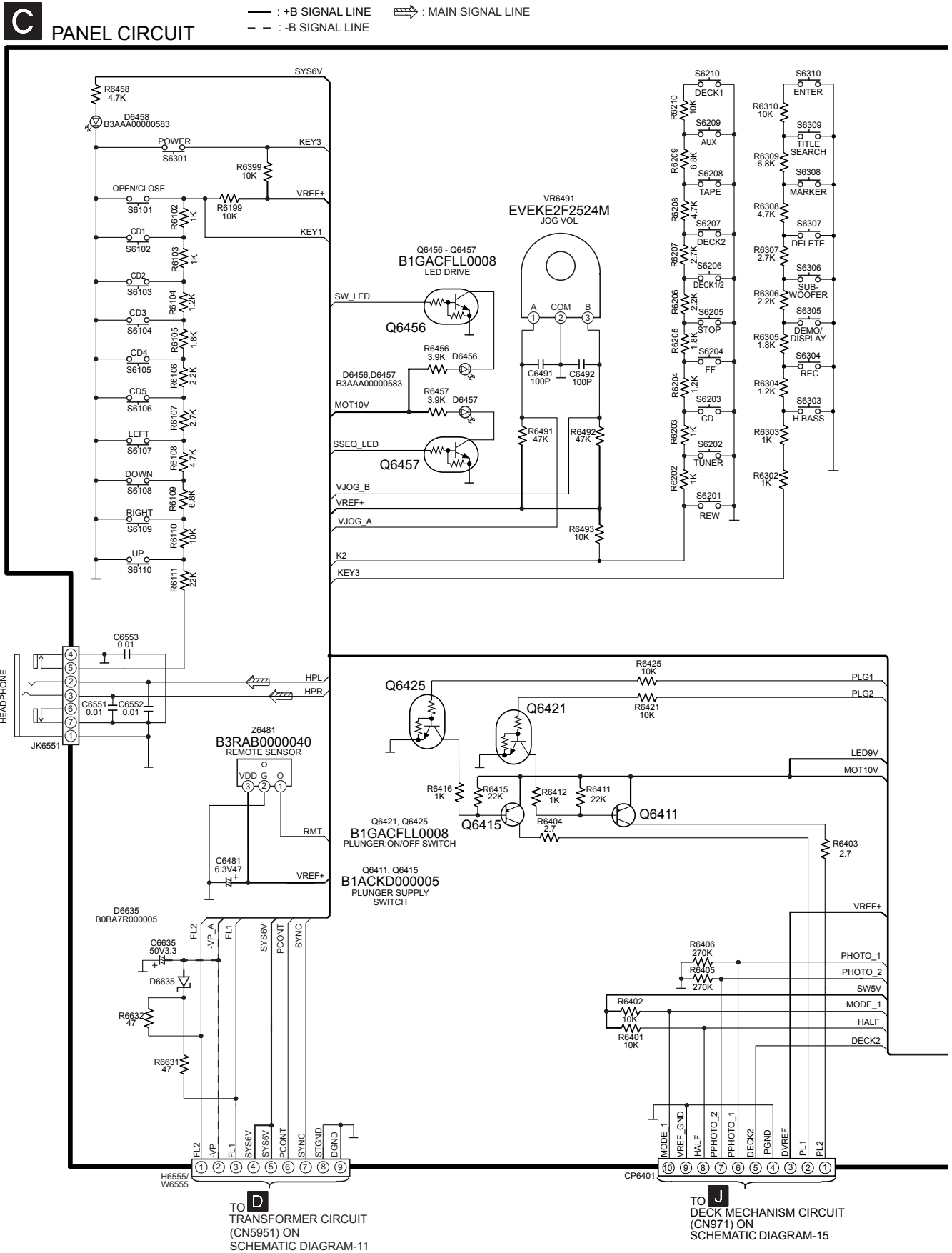
SCHEMATIC DIAGRAM - 8

B MAIN CIRCUIT



17.4. (C) Panel Circuit

SCHEMATIC DIAGRAM - 9



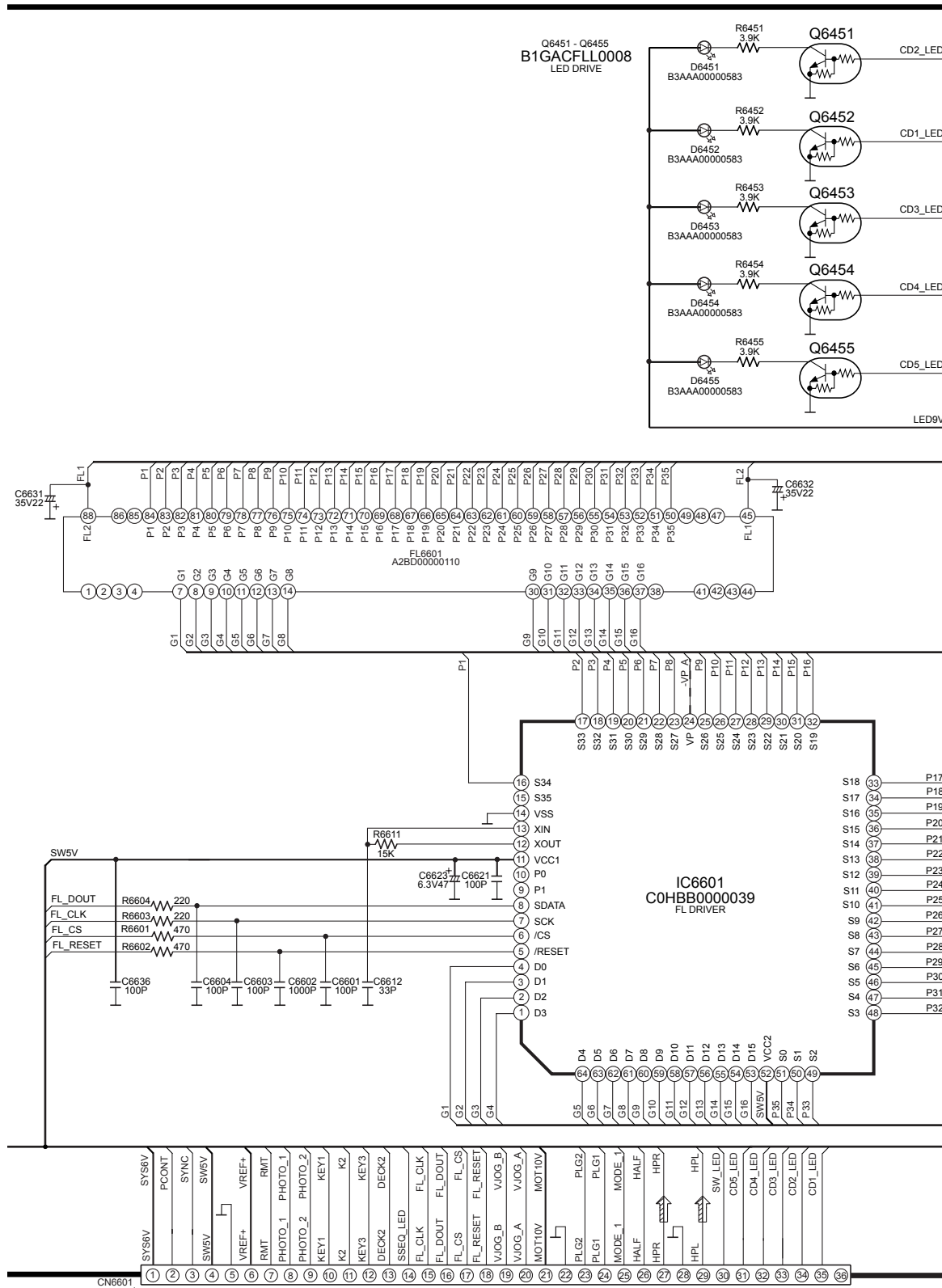
SCHEMATIC DIAGRAM - 10

C

PANEL CIRCUIT

— : +B SIGNAL LINE

— — : -B SIGNAL LINE

 : MAIN SIGNAL LINE

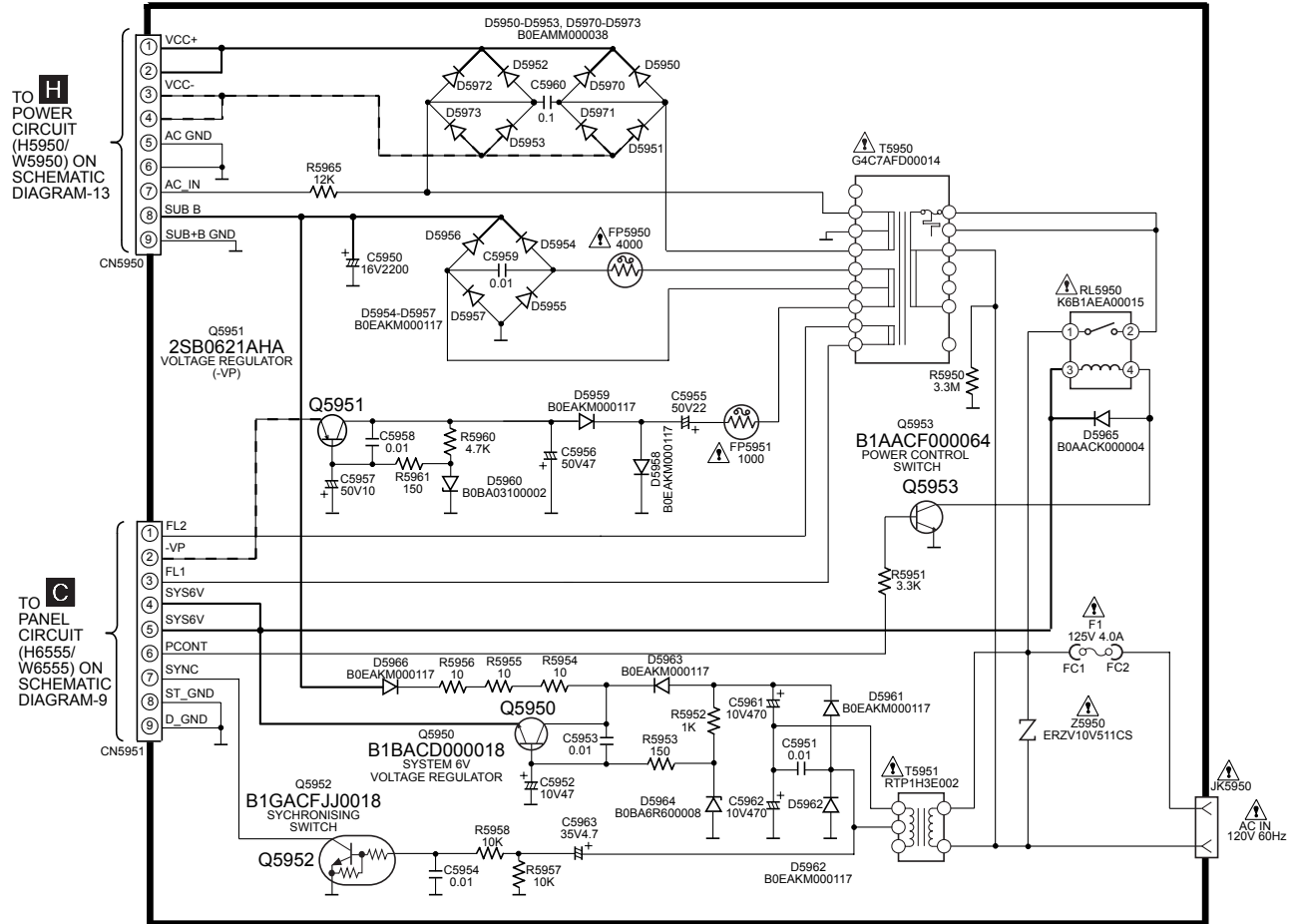
TO **B**
MAIN CIRCUIT
(CN2806) ON
SCHEMATIC
DIAGRAM-5

17.5. (D) Transformer Circuit

SCHEMATIC DIAGRAM - 11

— : +B SIGNAL LINE - - : -B SIGNAL LINE

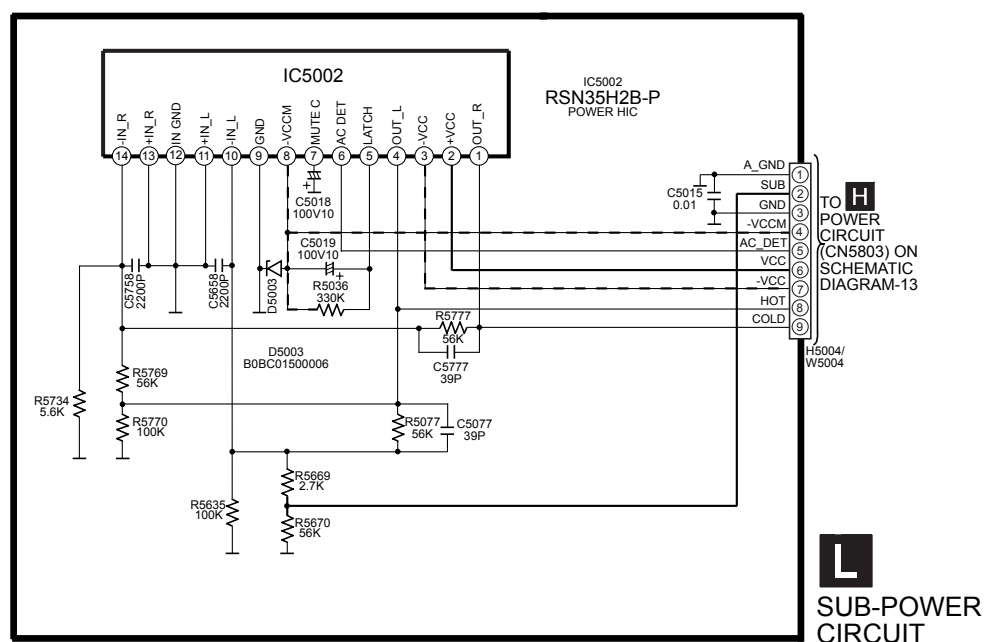
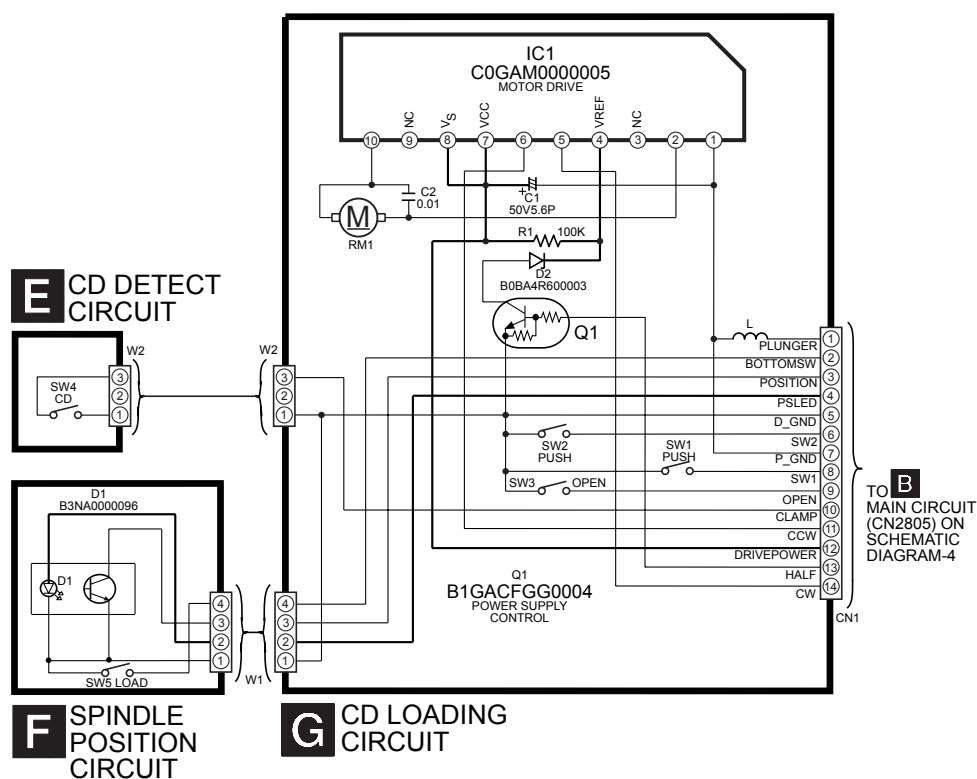
D TRANSFORMER CIRCUIT



17.6. (E) CD Detect Circuit, (F) Spindle Position Circuit, (G) CD Loading Circuit & (L) Sub-Power Circuit

SCHEMATIC DIAGRAM - 12

— : +B SIGNAL LINE - - : -B SIGNAL LINE

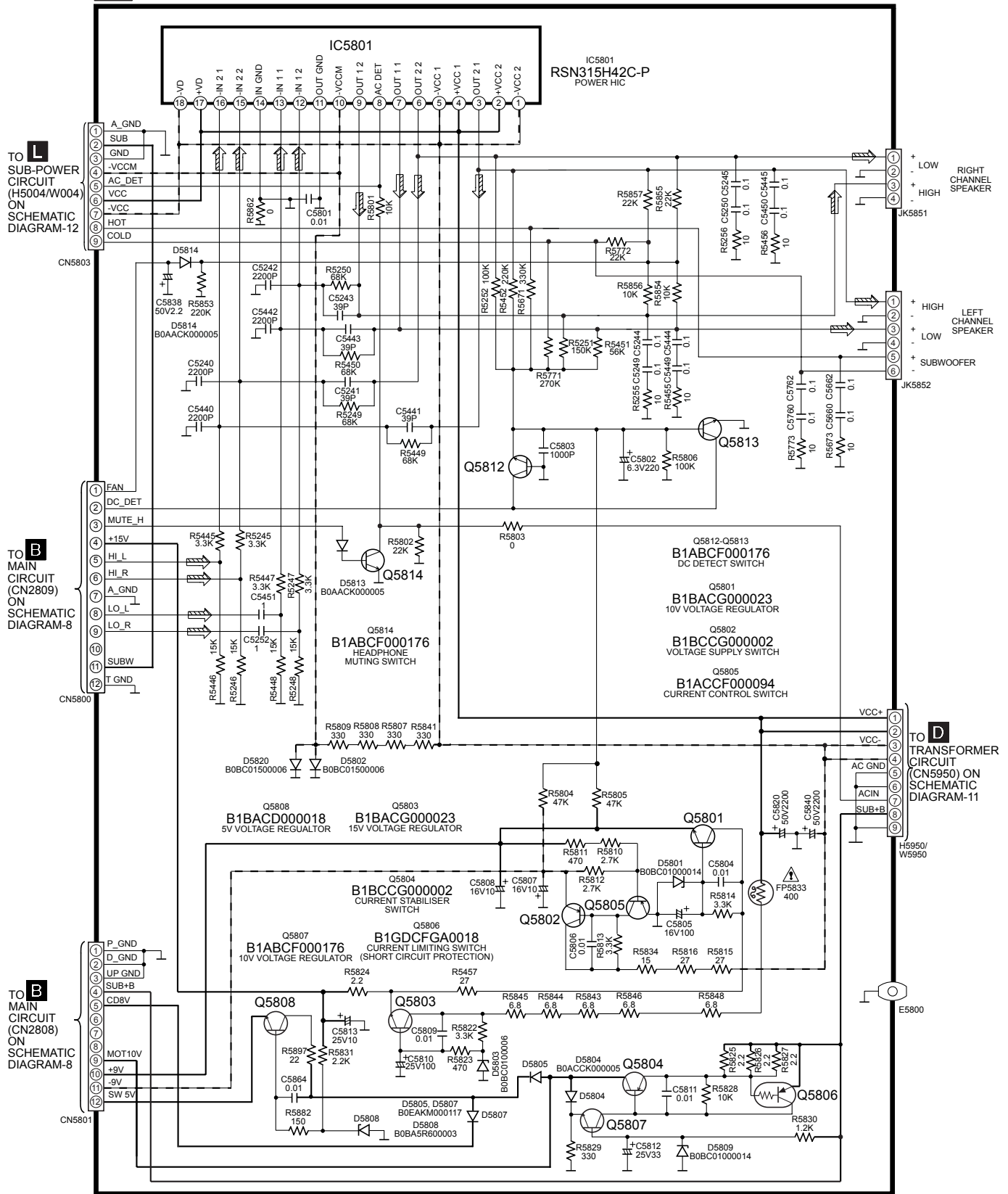


17.7. (H) Power Circuit

SCHEMATIC DIAGRAM - 13

H POWER CIRCUIT

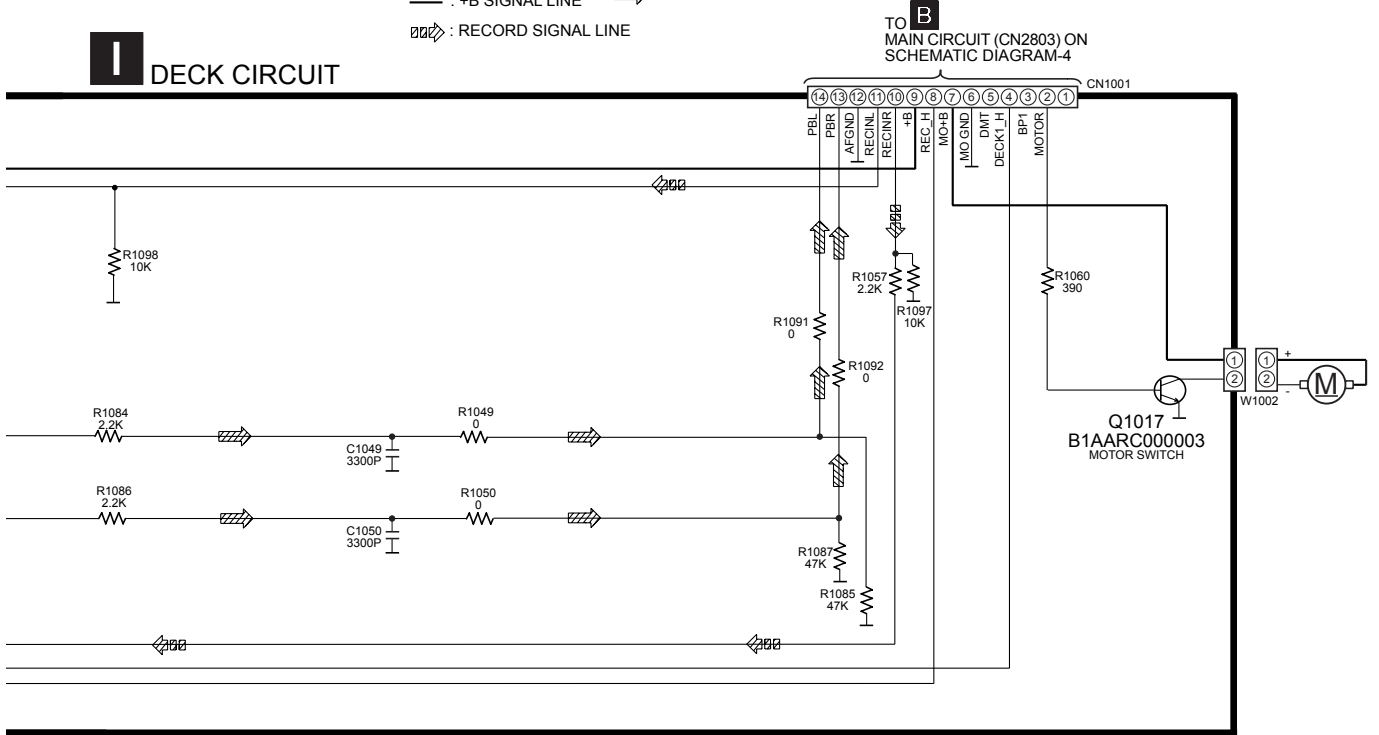
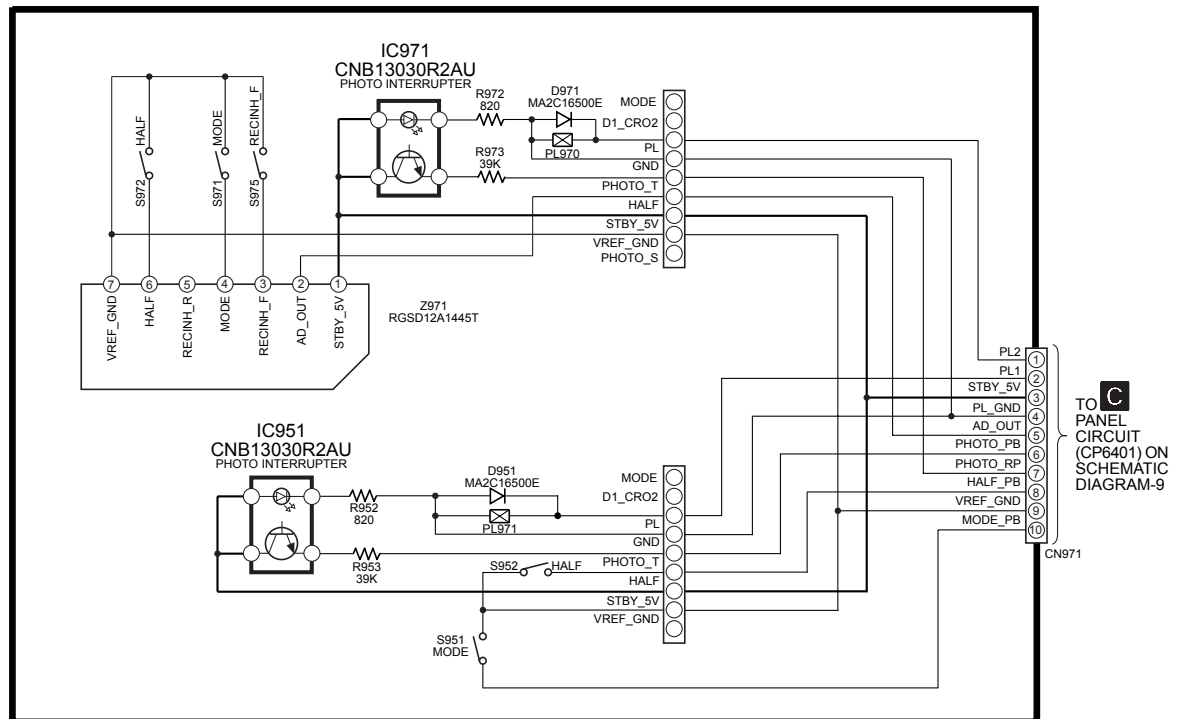
— : +B SIGNAL LINE - - : -B SIGNAL LINE  : MAIN SIGNAL LINE



— : +B SIGNAL LINE  : PLAYBACK SIGNAL LINE
 : RECORD SIGNAL LINE

SCHEMATIC DIAGRAM - 15

— : +B SIGNAL LINE ▨ : PLAYBACK SIGNAL LINE
 ▨ : RECORD SIGNAL LINE

I DECK CIRCUIT**J** DECK MECHANISM CIRCUIT

18.1. (A) CD Servo P.C.B.

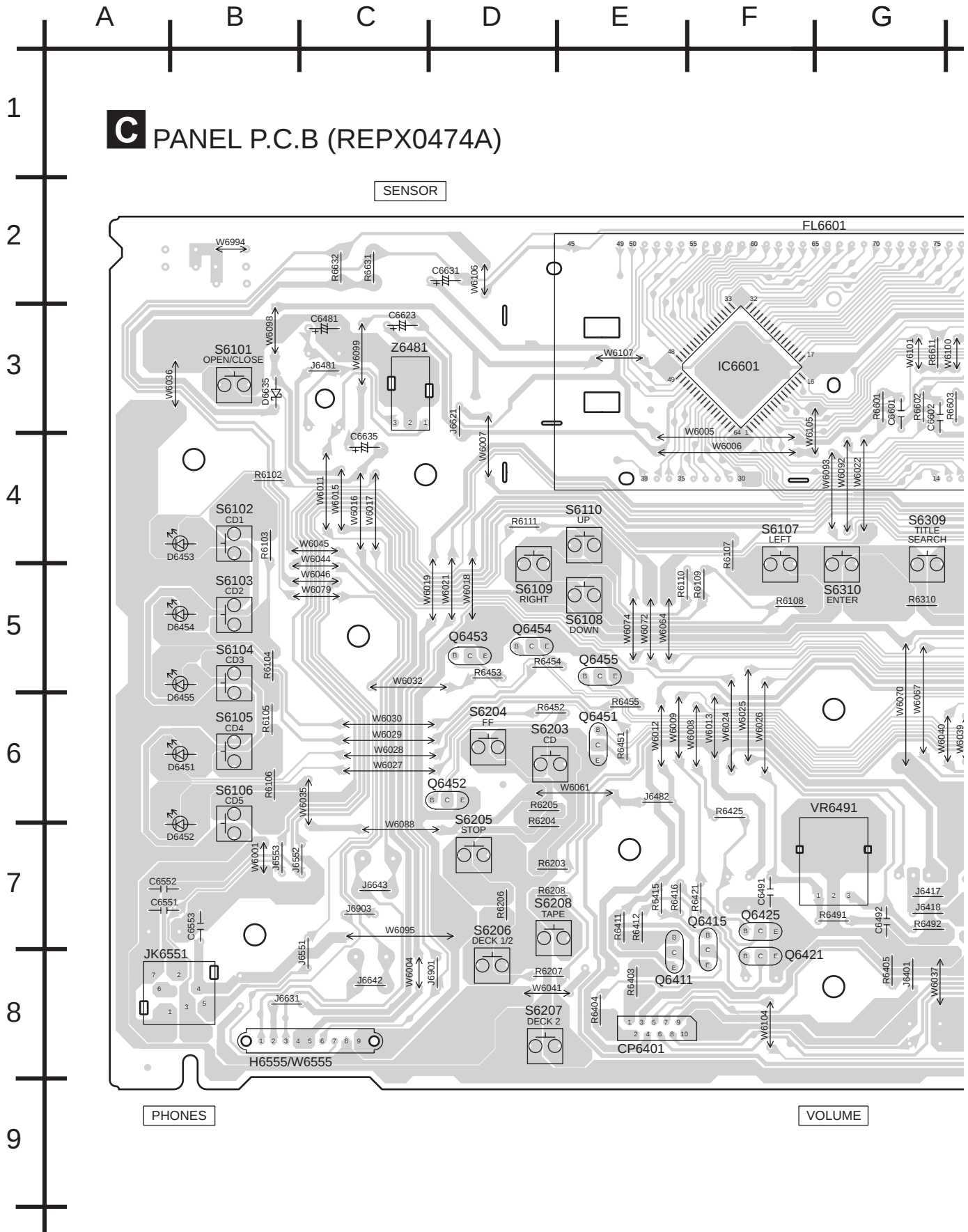


B MAIN P.C.B (REPX0442H)

This diagram shows the main printed circuit board (P.C.B) layout for the REPX0442H model. The board is populated with numerous electronic components, including integrated circuits (ICs), transistors, resistors, capacitors, and connectors. Key components labeled include Q2706, Q2704, Q2701, Q2702, Q2703, Q2705, Q2707, Q2708, Q2709, Q2710, Q2711, Q2712, Q2713, Q2714, Q2715, Q2716, Q2717, Q2718, Q2719, Q2720, Q2721, Q2722, Q2723, Q2724, Q2725, Q2726, Q2727, Q2728, Q2729, Q2730, Q2731, Q2732, Q2733, Q2734, Q2735, Q2736, Q2737, Q2738, Q2739, Q2740, Q2741, Q2742, Q2743, Q2744, Q2745, Q2746, Q2747, Q2748, Q2749, Q2750, Q2751, Q2752, Q2753, Q2754, Q2755, Q2756, Q2757, Q2758, Q2759, Q2760, Q2761, Q2762, Q2763, Q2764, Q2765, Q2766, Q2767, Q2768, Q2769, Q2770, Q2771, Q2772, Q2773, Q2774, Q2775, Q2776, Q2777, Q2778, Q2779, Q2780, Q2781, Q2782, Q2783, Q2784, Q2785, Q2786, Q2787, Q2788, Q2789, Q2790, Q2791, Q2792, Q2793, Q2794, Q2795, Q2796, Q2797, Q2798, Q2799, Q2800, Q2801, Q2802, Q2803, Q2804, Q2805, Q2806, Q2807, Q2808, Q2809, Q2810, Q2811, Q2812, Q2813, Q2814, Q2815, Q2816, Q2817, Q2818, Q2819, Q2820, Q2821, Q2822, Q2823, Q2824, Q2825, Q2826, Q2827, Q2828, Q2829, Q2830, Q2831, Q2832, Q2833, Q2834, Q2835, Q2836, Q2837, Q2838, Q2839, Q2840, Q2841, Q2842, Q2843, Q2844, Q2845, Q2846, Q2847, Q2848, Q2849, Q2850, Q2851, Q2852, Q2853, Q2854, Q2855, Q2856, Q2857, Q2858, Q2859, Q2860, Q2861, Q2862, Q2863, Q2864, Q2865, Q2866, Q2867, Q2868, Q2869, Q2870, Q2871, Q2872, Q2873, Q2874, Q2875, Q2876, Q2877, Q2878, Q2879, Q2880, Q2881, Q2882, Q2883, Q2884, Q2885, Q2886, Q2887, Q2888, Q2889, Q2890, Q2891, Q2892, Q2893, Q2894, Q2895, Q2896, Q2897, Q2898, Q2899, Q2900, Q2901, Q2902, Q2903, Q2904, Q2905, Q2906, Q2907, Q2908, Q2909, Q2910, Q2911, Q2912, Q2913, Q2914, Q2915, Q2916, Q2917, Q2918, Q2919, Q2920, Q2921, Q2922, Q2923, Q2924, Q2925, Q2926, Q2927, Q2928, Q2929, Q2930, Q2931, Q2932, Q2933, Q2934, Q2935, Q2936, Q2937, Q2938, Q2939, Q2940, Q2941, Q2942, Q2943, Q2944, Q2945, Q2946, Q2947, Q2948, Q2949, Q2950, Q2951, Q2952, Q2953, Q2954, Q2955, Q2956, Q2957, Q2958, Q2959, Q2960, Q2961, Q2962, Q2963, Q2964, Q2965, Q2966, Q2967, Q2968, Q2969, Q2970, Q2971, Q2972, Q2973, Q2974, Q2975, Q2976, Q2977, Q2978, Q2979, Q2980, Q2981, Q2982, Q2983, Q2984, Q2985, Q2986, Q2987, Q2988, Q2989, Q2990, Q2991, Q2992, Q2993, Q2994, Q2995, Q2996, Q2997, Q2998, Q2999, Q3000, Q3001, Q3002, Q3003, Q3004, Q3005, Q3006, Q3007, Q3008, Q3009, Q3010, Q3011, Q3012, Q3013, Q3014, Q3015, Q3016, Q3017, Q3018, Q3019, Q3020, Q3021, Q3022, Q3023, Q3024, Q3025, Q3026, Q3027, Q3028, Q3029, Q3030, Q3031, Q3032, Q3033, Q3034, Q3035, Q3036, Q3037, Q3038, Q3039, Q3040, Q3041, Q3042, Q3043, Q3044, Q3045, Q3046, Q3047, Q3048, Q3049, Q3050, Q3051, Q3052, Q3053, Q3054, Q3055, Q3056, Q3057, Q3058, Q3059, Q3060, Q3061, Q3062, Q3063, Q3064, Q3065, Q3066, Q3067, Q3068, Q3069, Q3070, Q3071, Q3072, Q3073, Q3074, Q3075, Q3076, Q3077, Q3078, Q3079, Q3080, Q3081, Q3082, Q3083, Q3084, Q3085, Q3086, Q3087, Q3088, Q3089, Q3090, Q3091, Q3092, Q3093, Q3094, Q3095, Q3096, Q3097, Q3098, Q3099, Q3100, Q3101, Q3102, Q3103, Q3104, Q3105, Q3106, Q3107, Q3108, Q3109, Q3110, Q3111, Q3112, Q3113, Q3114, Q3115, Q3116, Q3117, Q3118, Q3119, Q3120, Q3121, Q3122, Q3123, Q3124, Q3125, Q3126, Q3127, Q3128, Q3129, Q3130, Q3131, Q3132, Q3133, Q3134, Q3135, Q3136, Q3137, Q3138, Q3139, Q3140, Q3141, Q3142, Q3143, Q3144, Q3145, Q3146, Q3147, Q3148, Q3149, Q3150, Q3151, Q3152, Q3153, Q3154, Q3155, Q3156, Q3157, Q3158, Q3159, Q3160, Q3161, Q3162, Q3163, Q3164, Q3165, Q3166, Q3167, Q3168, Q3169, Q3170, Q3171, Q3172, Q3173, Q3174, Q3175, Q3176, Q3177, Q3178, Q3179, Q3180, Q3181, Q3182, Q3183, Q3184, Q3185, Q3186, Q3187, Q3188, Q3189, Q3190, Q3191, Q3192, Q3193, Q3194, Q3195, Q3196, Q3197, Q3198, Q3199, Q3200, Q3201, Q3202, Q3203, Q3204, Q3205, Q3206, Q3207, Q3208, Q3209, Q3210, Q3211, Q3212, Q3213, Q3214, Q3215, Q3216, Q3217, Q3218, Q3219, Q3220, Q3221, Q3222, Q3223, Q3224, Q3225, Q3226, Q3227, Q3228, Q3229, Q3230, Q3231, Q3232, Q3233, Q3234, Q3235, Q3236, Q3237, Q3238, Q3239, Q3240, Q3241, Q3242, Q3243, Q3244, Q3245, Q3246, Q3247, Q3248, Q3249, Q3250, Q3251, Q3252, Q3253, Q3254, Q3255, Q3256, Q3257, Q3258, Q3259, Q3260, Q3261, Q3262, Q3263, Q3264, Q3265, Q3266, Q3267, Q3268, Q3269, Q3270, Q3271, Q3272, Q3273, Q3274, Q3275, Q3276, Q3277, Q3278, Q3279, Q3280, Q3281, Q3282, Q3283, Q3284, Q3285, Q3286, Q3287, Q3288, Q3289, Q3290, Q3291, Q3292, Q3293, Q3294, Q3295, Q3296, Q3297, Q3298, Q3299, Q3300, Q3301, Q3302, Q3303, Q3304, Q3305, Q3306, Q3307, Q3308, Q3309, Q3310, Q3311, Q3312, Q3313, Q3314, Q3315, Q3316, Q3317, Q3318, Q3319, Q3320, Q3321, Q3322, Q3323, Q3324, Q3325, Q3326, Q3327, Q3328, Q3329, Q3330, Q3331, Q3332, Q3333, Q3334, Q3335, Q3336, Q3337, Q3338, Q3339, Q3340, Q3341, Q3342, Q3343, Q3344, Q3345, Q3346, Q3347, Q3348, Q3349, Q3350, Q3351, Q3352, Q3353, Q3354, Q3355, Q3356, Q3357, Q3358, Q3359, Q3360, Q3361, Q3362, Q3363, Q3364, Q3365, Q3366,



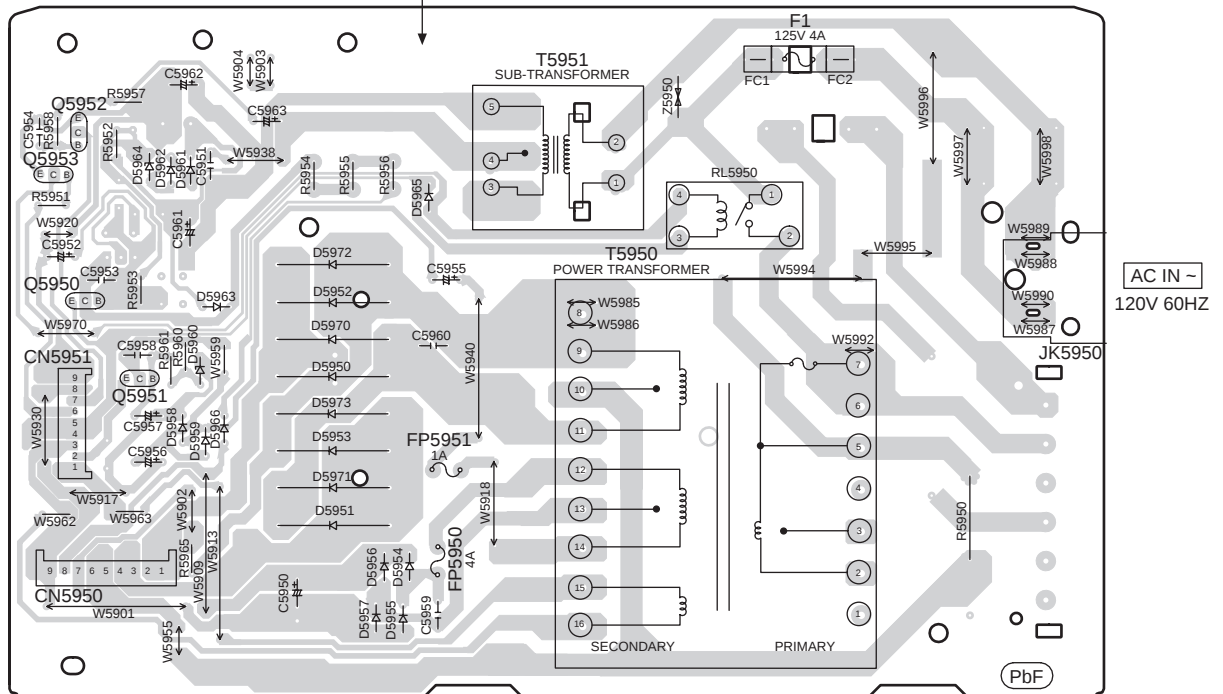
18.3. (C) Panel P.C.B.



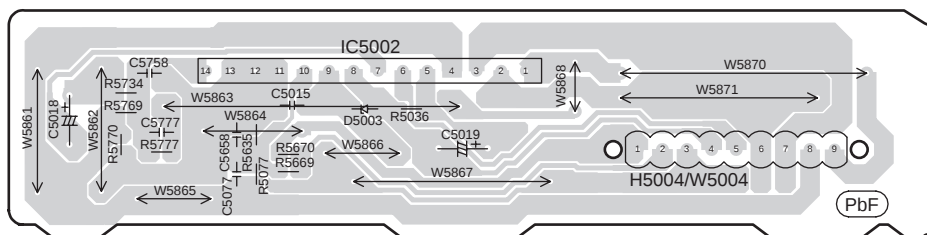
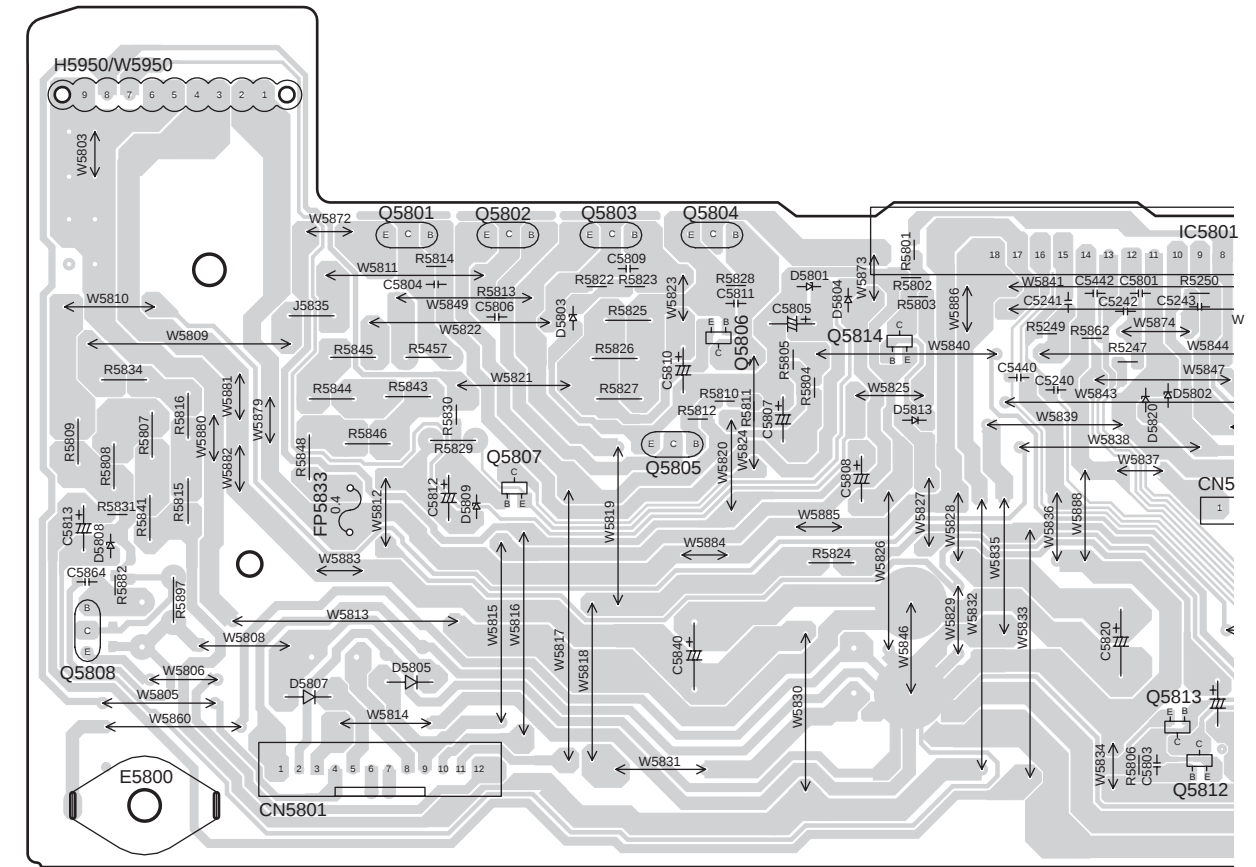


D TRANSFORMER P.C.B (REPX0468E)

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

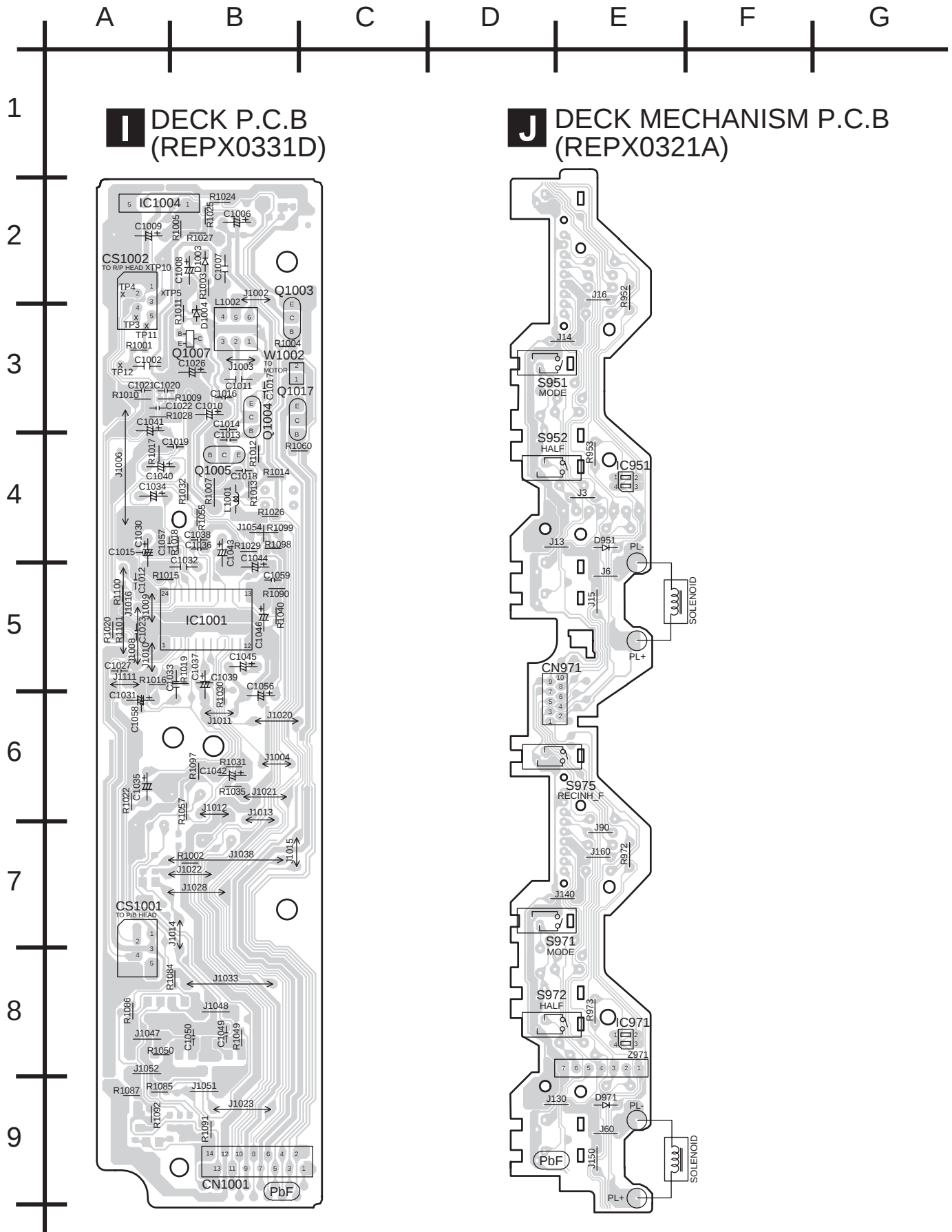




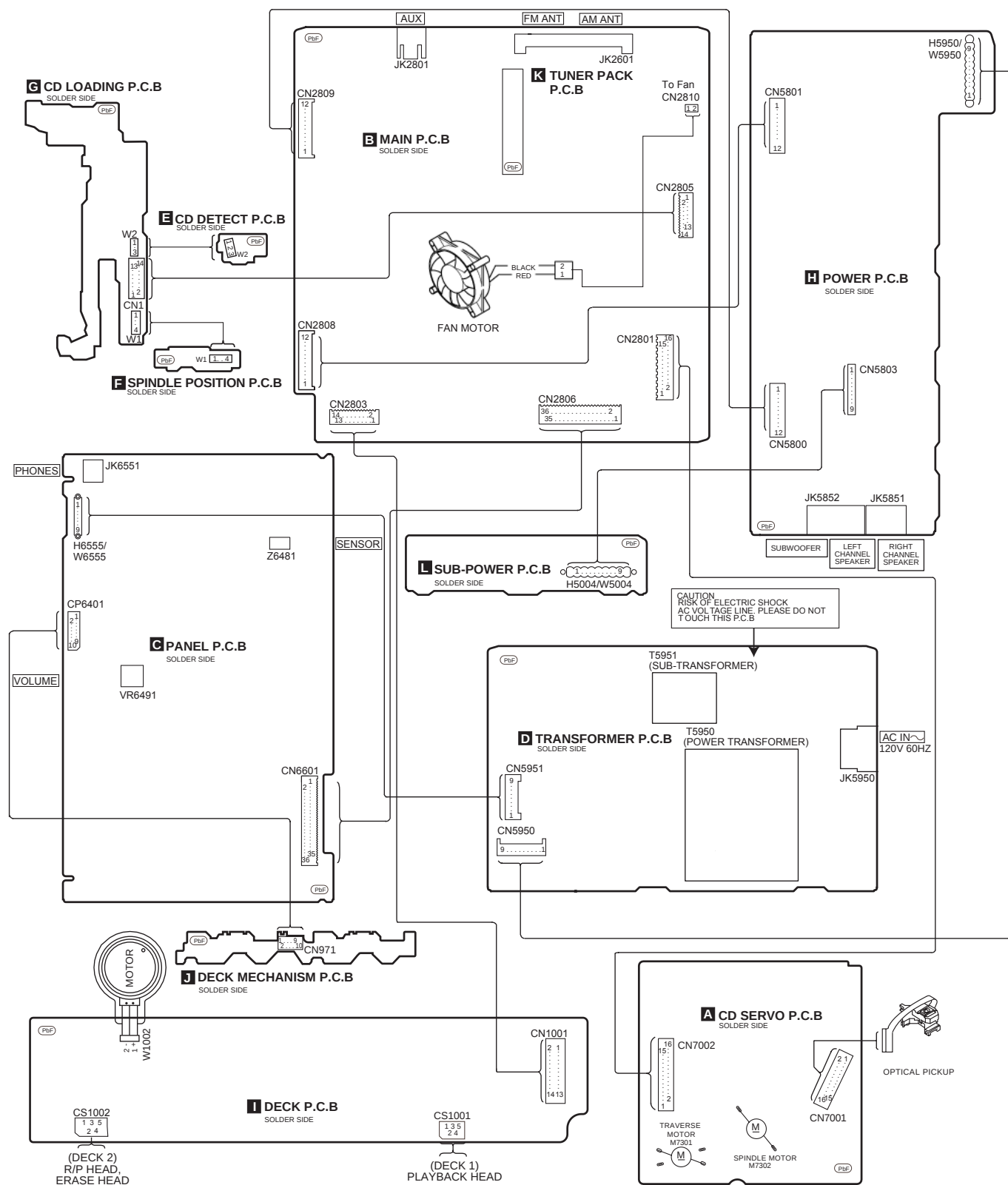




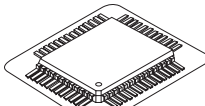
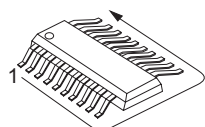
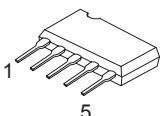
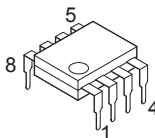
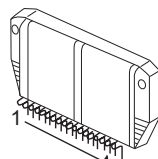
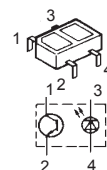
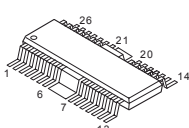
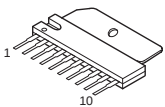
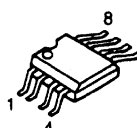
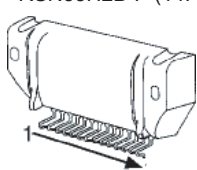
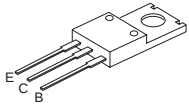
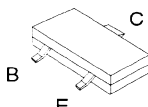
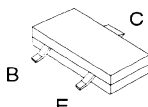
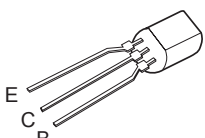
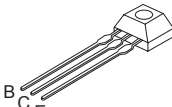
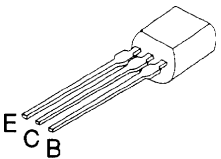
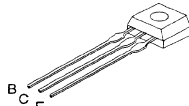
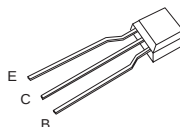
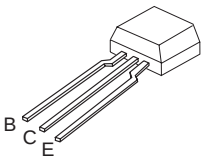
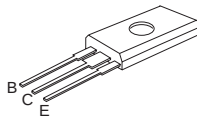
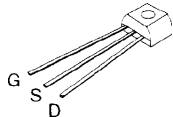
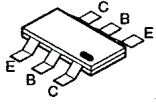
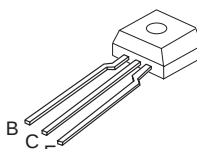
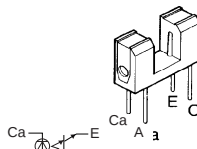
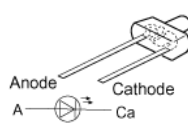
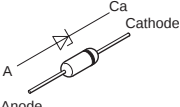
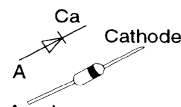
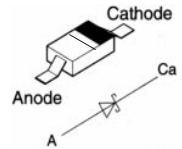
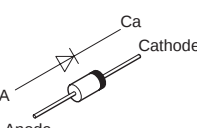
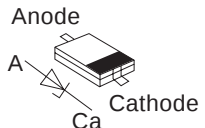
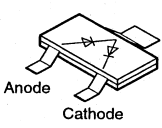
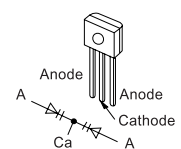
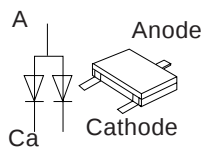
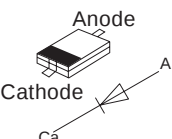
18.7. (I) Deck P.C.B. & (J) Deck Mechanism P.C.B.



19 Wiring Connection Diagram



20 Illustration of IC's, Transistors and Diodes

C2CBJG000561 (100P) C0HBBB0000039 (64P) MN6627953HB (80P) 	AN7348S-E1 (24P) LA1833NMNTLM (24P) LC72131MDTRM (20P) C1BB00000732 (32P) 	C1AA00000612 	C0AABA000009 	RSN315H42C-P (18P) 	
CNB13030R2AU 	AN8739SBTE2 	C0GAM0000005 	C0ABBB000244 	RSN35H2B-P (14P) 	B1BACG000023 B1BCCG000002 
2SB0709AHL 2SD0601AHL B1ADCF000001 B1GDCFJJ0047 B1GBCJFF0051 B1GDCFGA0018 	B1ABCF000176 B1ABEB000002 	2SB0621AHA 2SD0592ARA 	B1GACFJJ0018 B1GACFLL0008 	B1ACKD000005 B1AARC000003 B1GCCFJJ0016 	
B1AAGC000007 B1GACFGG0004 B1AAAC000016 B1AAD000015 	B1AABC000003 	B1AACF000064 	B1BACD000018 	2SK544F-AC 	B1GFGCAA0001 
B1ACCF000094 	B3NAA0000096 	B3AAA0000583 	B0BA03100002 B0BA4R600003 B0BA7R000005 	B0AACK000004 MA2C16500E 	RB751V-40 
B0EAMM000038 B0EAKM000117 	B0BA6R600008 B0BA5R600003 B0BC3R700004 B0BC5R000009 B0BC7R500001 B0BC2R4A0006 B0BC01500006 B0BC01000014 	B0ADCC000002 		B0CDBB000015 B0CBAD000004 	B0ADCJ000020 
B0ACCK000005 					

21 Terminal Function of IC's

21.1. IC7002 (MN6627953HB) Servo processor/ Digital signal processor/ Digital filter/ D/A converter

Pin No.	Mark	I/O	Function
1	EXT0	I/O	Extend input/output port 0
2	EXT1	I/O	Extend input/output port 1
3	EXT2	I/O	Extend input/output port 2
4	PWMSEL	I	PWM output selection input (L: Direct; H: Tri-State)
5	SPOUT	O	Spindle driver output signal
6	SPPOL	O	Spindle driver output signal
7	TRVP	O	Spindle driver output signal
8	TRVM	O	Spindle driver output signal
9	TRVP2	O	Traverse driver output signal 2 (+)
10	TRVM2	O	Traverse driver output signal 2 (-)
11	TRP	O	Traverse driver output signal (+)
12	TRM	O	Traverse driver output signal (-)
13	FOP	O	Traverse driver output signal (+)
14	FOM	O	Traverse driver output signal (-)
15	IOVDD3	-	I/O power supply 3
16	DVDD1	-	Power supply 1 for digital circuit
17	DVSS1	-	Digital circuit GND 1
18	ADPVCC	I	Power voltage monitor. Power voltage input
19	TEIN	I	DSP traverse error signal input
20	FEIN	I	DSP focus error signal input
21	CEA	I/O	HPF-Amp capacitance connection terminal
22	RFENV	O	RF envelope signal monitor
23	FEOUT	O	FE Amp output
24	FEN	I	FE Amp reversal input
25	TEN	I	TE Amp reversal input
26	TEOUT	O	TE Amp output
27	VREF	O	VREF output
28	PD	I	APC Amp input
29	LD	O	APC Amp output
30	E	I	Tracking input signal 1
31	F	I	Tracking input signal 2
32	D	I	Tracking input signal 4
33	B	I	Tracking input signal 2
34	C	I	Tracking input signal 3
35	A	I	Focus input signal 1
36	DCDET	I	Detection HPF capacitance terminal
37	RFVDD	-	RF Amp power supply
38	RESERVE	-	AVSS2
39	RFOUT	O	RF Amp output
40	RFIN	I	AGC input
41	CAGC	I/O	AGC control terminal
42	ARFOUT	O	AGC output (Audio RF)
43	AVSS2	-	Analog circuit GND 2
44	ARFIN	I	RF signal input
45	DSLIF	O	DSL loop filter
46	IREF	I	I (current), Reference input
47	PLLIF	O	PLL loop filter
48	PLLIF0	O	PLL loop filter

Pin No.	Mark	I/O	Function
49	AVDD2	-	Analog circuit power supply 2
50	OUTL	O	LCH output signal
51	AVSS1	-	Audio output circuit GND 1
52	N.C.	-	No Connection
53	AVDD1	-	Power supply 1 for analog circuit
54	OUTR	O	RCH output signal
55	DVSS2	-	Digital circuit GND 2
56	IOVDD1	-	I/O power supply 1
57	DVDD2	-	Power supply 2 for Digital circuit
58	REGON	I	Laser diode control (H: ON)
59	IOMODE	I	I/O switching setting input
60	NTEST	I	Test mode setting input (H: ON)
61	TX	O	Digital audio interface output
62	FLAG	O	Flag signal output
63	MCLK	I	Micro-P serial command CLK
64	MDATA	I	Micro-P serial command DATA
65	MLD	I	Micro-P serial command LOAD
66	STAT	O	Status signal output
67	BLKCK	O	Subcode block clock
68	NRST	I	LSI reset input (L: RESET)
69	DVSS3	-	Digital circuit GND 3
70	X2	O	Crystal oscillator circuit output
71	X1	I	Crystal oscillator circuit input
72	IOVDD2	I	I/O power supply 2
73	DQSY	O	Pack signal output for CD-Text data
74	TXTD	O	CDText signal output
75	TXTCK	I	External clock signal input for CD-Text register
76	GIO0	I/O	General purpose input/output Terminal 0
77	GIO1	I/O	General purpose input/output Terminal 1
78	GIO2	I/O	General purpose input/output Terminal 2
79	GOUT0	O	General purpose output Terminal 0
80	GOUT1	O	General purpose output Terminal 1

21.2. IC7003 (AN8739SBTE2) Focus coil/ Tracking coil/ Traverse motor/ Spindle motor drive

Pin No.	Mark	I/O	Function
1	/RST	O	RESET output terminal
2	N.C.	-	No Connection
3	IN2	I	Motor drive (2) input
4	PC2	I	Turntable motor drive signal ("L" :ON)
5	N.C.	-	No Connection
6	IN1	I	Motor driver (1) input
7	PVCC1	-	Power supply (1) for driver
8	PGND1	-	Ground connection (1) for driver
9	N.C.	-	No Connection
10	D1-	O	Motor driver (1) reverse-action output
11	D1+	O	Motor driver (1) forward-action output
12	D2-	O	Motor driver (2) reverse-action output

Pin No.	Mark	I/O	Function
13	D2+	O	Motor driver (2) forward-action output
14	D3-	O	Motor driver (3) reverse-action output
15	D3+	O	Crystal oscillating circuit input (f = 16.9344MHz)
16	D4-	O	Motor driver (4) reverse-action output
17	D4+	O	Motor driver (4) forward-action output
18	N.C.	-	No Connection
19	PGND2	-	Ground connection (2) for driver
20	PVCC2	-	Power supply (2) for driver
21	VCC	-	Power supply terminal
22	VREF	-	Reference voltage input
23	IN4	I	Motor driver (4) input
24	IN3	I	Motor driver (3) input
25	RSTIN	I	Reset terminal
26	N.C.	-	No Connection

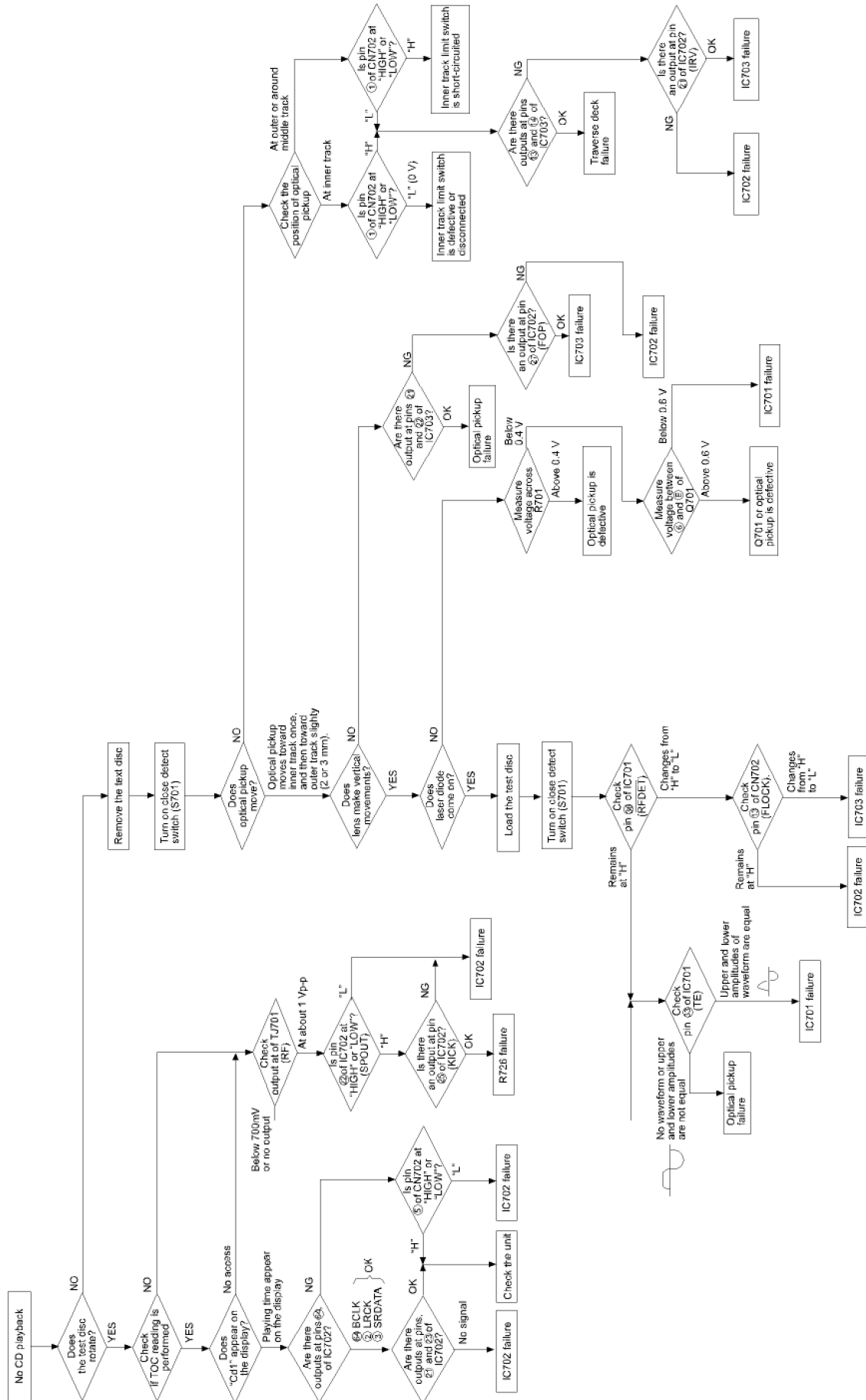
21.3. IC2801 (C2CBJG000561) System Microprocessor

Pin No.	Mark	I/O	Function
1	LM_L	I	Level Meter Left
2	N.C.	-	No Connection
3	PLL_CE	O	PLL Chip Select
4	N.C.	-	No Connection
5	N.C.	-	No Connection
6	N.C.	-	No Connection
7	N.C.	-	No Connection
8	BYTE	I	External Data Bus Width Select Input
9	CNVss/EFP_CNVss	-	Flash Mode Terminal (Connect to ground)
10	Xcin	-	32.768 kHz Sub Clock
11	Xcout	-	32.768 kHz Sub Clock
12	/RESET/EFP_RESET	I	Reset Input (ACTIVE L)
13	Xout	-	10 MHz Main Clock
14	Vss	-	Ground (0V)
15	Xin	-	10 MHz Main Clock
16	Vcc	-	Power Supply (+5V)
17	/NMI	-	Connect to Vcc (+5V)
18	RMT	I	Remote Control Input
19	BLKCK	I	CD Block Clock Input (Inverted)
20	SYNC	I	AC Failure Detect Input
21	ST/DO	I	Tuner IF Data/ Stereo Input
22	SD	I	Tuner Signal Detect Input
23	Harmonic_SW	I/O	*3 Harmonic Switch (Active L)
24	SW_LVL 1	O	*4 Sub-Woofer Level 1
25	SW_LVL 2	O	*4 Sub-Woofer Level 2
26	ASP_DAT	O	ASP Data
27	ASP_CLK	O	ASP Clock
28	N.C.	-	No Connection
29	PLL_DATA	O	PLL DATA
30	PLL_CLK	O	PLLCLK
31	REG 8/EFP_RxD1	I	Region Setting 8 (Subwoofer)
32	REG 7/EFP_RxD1	I	Region Setting 7 (MIC)
33	REG 6/EFP_SCLK	I	Region Setting 6 (RDS)
34	REG 5/EFP_BUSY	I	Region Setting 5 (Optical Out)
35	REG 4	I	Region Setting 4 (Deck Mechanism)
36	REG 3	I	Region Setting 3 (Tuner)
37	REG 2	I	Region Setting 2 (Tuner)
38	REG 1	I	Region Setting 1 (Tuner)

Pin No.	Mark	I/O	Function
39	MUTE_H	O	HIC Mute
40	MUTE_A	O	Audio Mute
41	EE_CS/EFP_EP M	O	EEPROM Chip Select
42	EE_CLK	O	EEPROM Clock
43	EE_DAT	I/O	EEPROM Data
44	CD1_LED	O	CD 1 LED
45	CD2_LED	O	CD 2 LED
46	PCONT/EFP_/CE	O	Main Transformer Control Output
47	DCDET	I	DC Detect Input
48	CD3_LED	O	CD 3 LED
49	CD4_LED	O	CD 4 LED
50	CD5_LED	O	CD 5 LED
51	N.C.	-	No Connection
52	HALF_1	I	Deck 1 Half Playback Input
53	MODE_1	I	Deck 1 Mode Playback Input
54	SW_LED	O	*2 Sub Woofer LED
55	N.C.	-	No Connection
56	PLG1	O	Deck 1 plunger control
57	PLG2	O	Deck 2 plunger control
58	MTR	I/O	Deck motor control ("L" for motor ON)
59	REC	I/O	L when record circuit is operating
60	DECK1_H	O	H when DECK 1 P/B head is selected
61	N.C.	-	No Connection
62	Vcc	-	Power Supply (+5V)
63	N.C.	-	No Connection
64	Vss	-	Ground (0V)
65-66	N.C.	-	No Connection
67	V_JOG_A	I	Volume Jog A
68	V_JOG_B	I	Volume Jog B
69	EX1_CLK	I/O	*1 I/O Expander Clock
70	EX1_DAT	I	*1 I/O Expander Data
71	/FL_RESET	O	Reset Input (ACTIVE L)
72	FL_CS	I/O	FL Driver Chip Select
73	FL_DOUT	O	Serial Data To FL Driver (Output)
74	FL_CLK	I/O	Serial Clock To FL Driver
75	N.C.	-	No Connection
76	SSEQ_LED	O	Super Sound EQ LED
77	CD_RST	O	CD Reset Output
78	STATUS	I	CD Servo LSI Status Input
79	MLD	O	CD Command Load Output
80	MDATA_OUT	O	CD Command Data Output
81	MCLK	O	CD Command Clock Output
82	/RESTSW	I	CD Limit Switch Input for the Most Inner Point (Active Low)
83	CHG_HLF	O	Changer Half Drive Output
84	CHG_CW	O	Changer Motor Clockwise Output
85	CHG_CCW	O	Changer Motor Counterclockwise Output
86	CHG_SW1	I	CD Changer Switch 1 Input
87	CHG_SW2	I	CD Changer Switch 2 Input
88	CHG_PLR	O	Changer Plunger Output
89	CHG_AD2	I	Changer AD Detection Input (Position/Bottom)
90	CHG_AD1	I	Changer AD Detection Input (Open/Clamp)
91	DECK2	I	DECK CONDITION INPUT 2 (R_INHF/MODE2/HALF2)
92	KEY3	I	KEY3 INPUT
93	KEY2	I	KEY2 INPUT
94	KEY1	I	KEY1 INPUT
95	PHOTO_2	I	Rotation Detection Signal (Deck 2)
96	AVss	-	Analog Power Supply Input (Connect to GND)
97	PHOTO_1	I	Rotation Detection Signal (Deck 1)

Pin No.	Mark	I/O	Function
98	VREF	-	Reference for A-D (5V)
99	AVcc	-	Analog Power Supply Input
100	Demo Selector	I	(H= default demo on, L= default demo off.)

22 Troubleshooting Guide



23 Parts Location and Replacement Parts List

Notes:

- Important safety notice:

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

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

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

- The parenthesized indications in the Remarks columns specify the areas or colour. (Refer to the cover page for area or colour)

Parts without these indications can be used for all areas.

- Warning: This product uses a laser diode. Refer to caution statements on "Precaution of Laser Diode".

- Capacitor values are in microfarads (μ F) unless specified otherwise, P= Pico-farads (pF), F= Farads.

- Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM).

- The marking (RTL) indicates that the Retention Time is limited for this items. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of a availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

- [M] Indicates in the Remarks columns indicates parts supplied by **PAVCSG**.

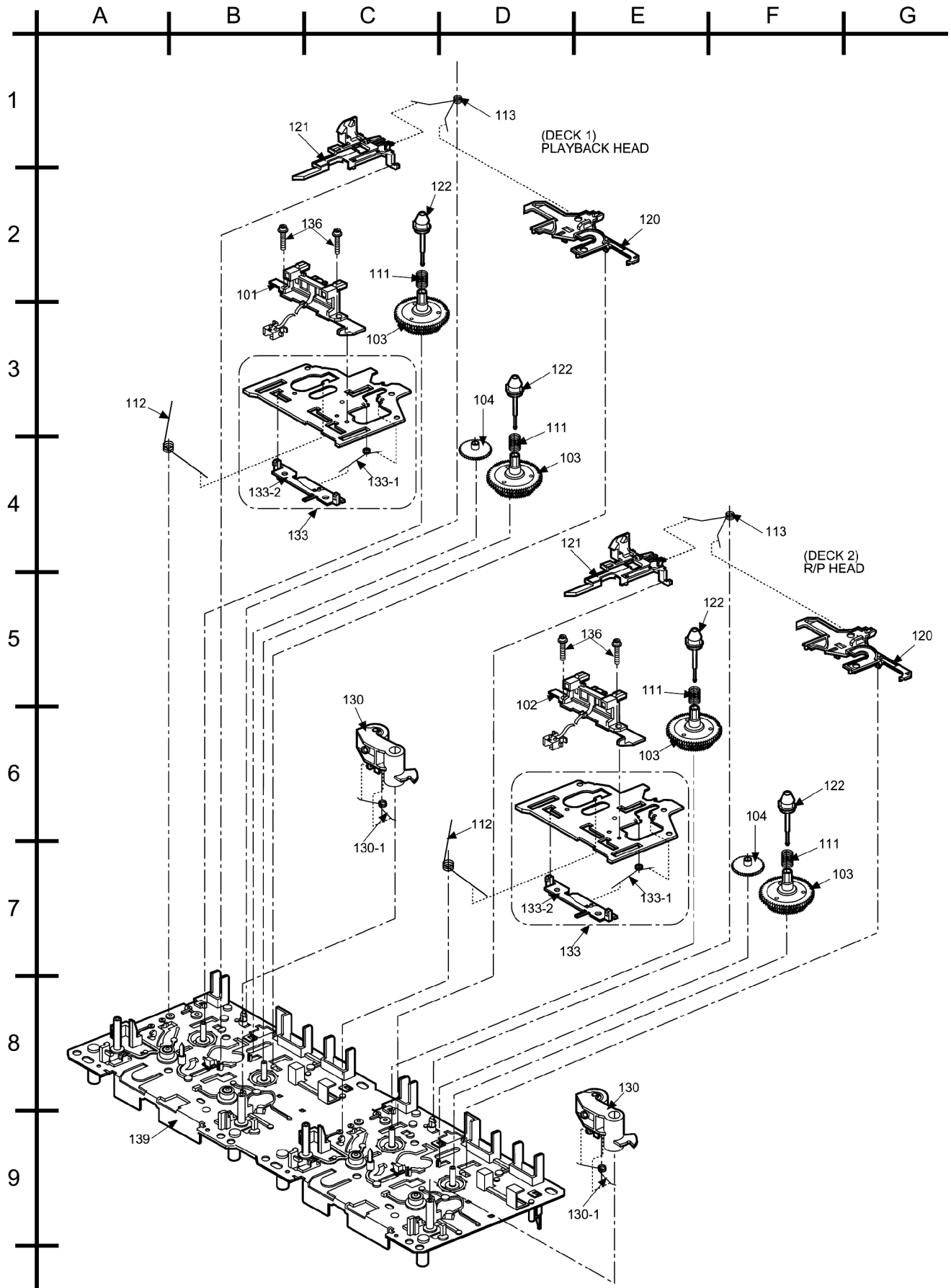
- The "(SF)" mark denotes the standard part.

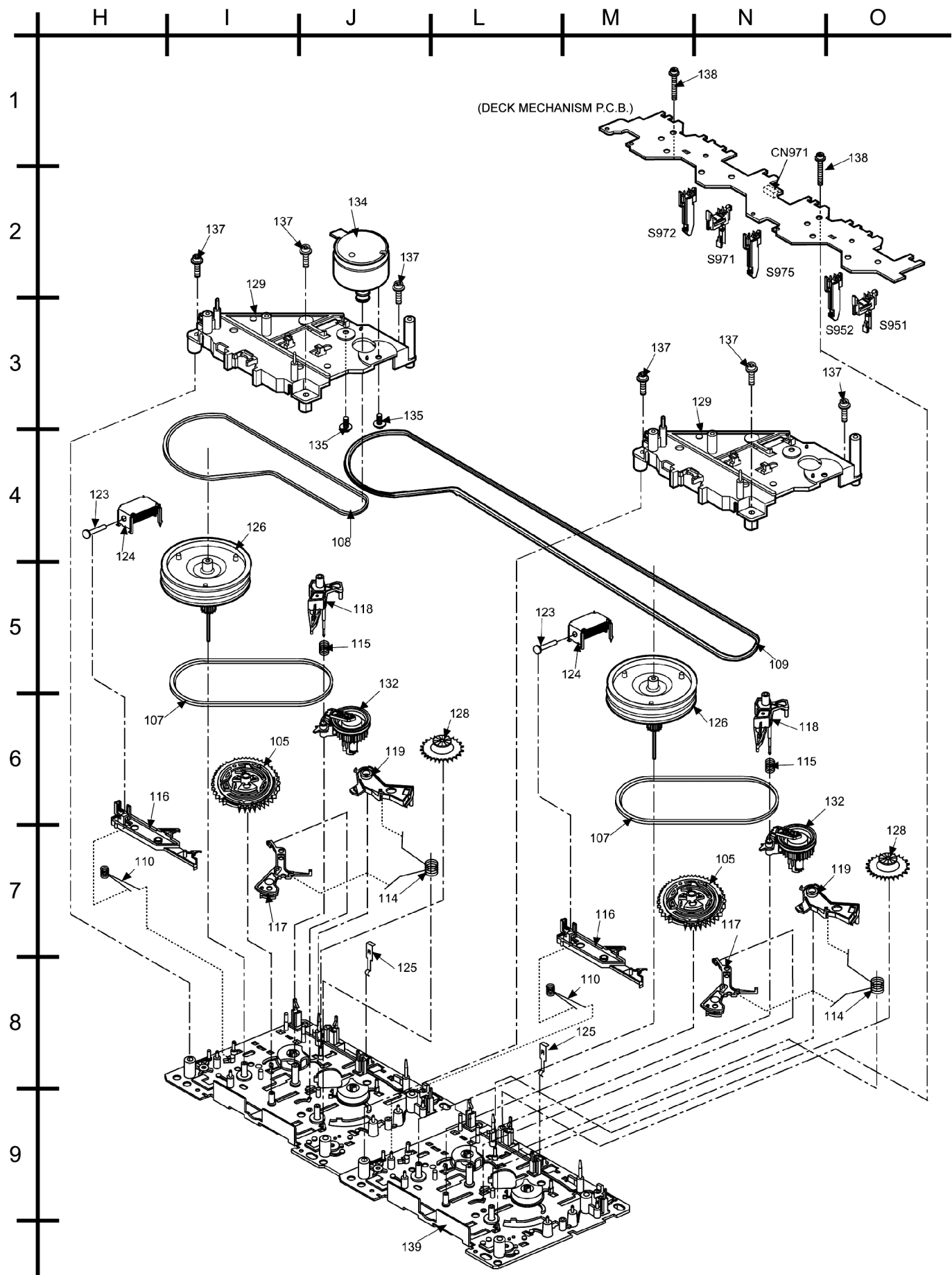
- Reference for O/I book languages are as follows:

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

23.1. Deck Mechanism (RAA4502-S)

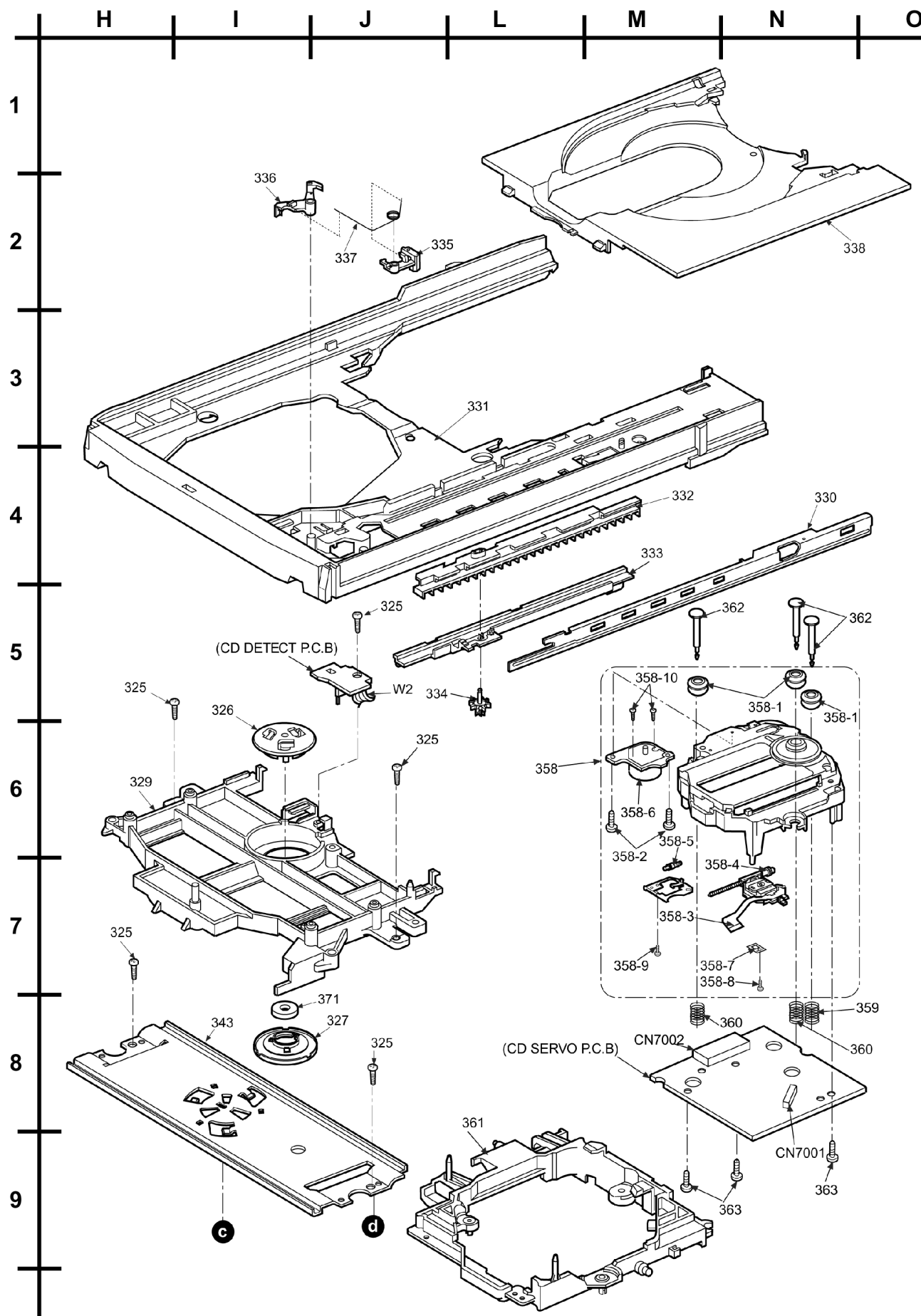
23.1.1. Deck Mechanism Parts Location





23.1.2. Deck Mechanism Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CASSETTE DECK	
101	RED0069	R/P HEAD BLOCK UNIT	[M]
102	RED0070	P/B HEAD BLOCK UNIT	[M]
103	RDG0300	REEL BASE GEAR	[M]
104	RDG0301	WINDING RELAY GEAR	[M]
105	RDK0026	MAIN GEAR	[M]
107	RDV0033-4	WINDING BELT	[M]
108	RDV0064	CAPSTAN BELT A	[M]
109	RDV0071	CAPSTAN BELT B	[M]
110	RMB0312	TRIGGER LEVER SPRING	[M]
111	RMB0400	REEL SPRING	[M]
112	RMB0403	HEAD PANEL SPRING	[M]
113	RMB0404	BRAKE ROD SPRING	[M]
114	RMB0406	FR LEVER SPRING	[M]
115	RMB0408	THRUST SPRING	[M]
116	RML0370	TRIGGER LEVER	[M]
117	RML0371	FR LEVER	[M]
118	RML0372	WINDING LEVER	[M]
119	RML0374	EJECT LEVER	[M]
120	RMM0131	BRAKE ROD	[M]
121	RMM0133	EJECT ROD	[M]
122	RMQ0519	REEL HUB	[M]
123	RMS0398-1	MOVING CORE	[M]
124	RSJ0003	PLUNGER ASSY	[M]
125	RMC0061	PACK SPRING	[M]
126	RXF0061	FLYWHEEL F ASSY	[M]
128	RXG0040	FF RELAY GEAR ASSY	[M]
129	RMK0283A-J	SUB-CHASSIS	[M]
130	RXL0124	PINCH ROLLER F ASSY	[M]
130-1	RMB0401	PINCH ARM SPRING F	[M]
132	RXL0126	WINDING ARM ASSY	[M]
133	RXQ0412	HEAD PANEL ASSY	[M]
133-1	RMB0405	FR ROD SPRING	[M]
133-2	RMM0132	FR ROD	[M]
134	REM0121	CAP MOTOR ASSY	[M]
135	RHD26022	MOTOR SCREW	[M]
136	XTW2+5LFJ	HEAD BLOCK UNIT SCREW	[M]
137	XTW26+10SFJ	SUB-CHASSIS SCREW	[M]
138	XYC2+JF17FJ	PCB EARTH SCREW	[M]
139	RFKJAA4501-S	CHASSIS ASSY	[M]



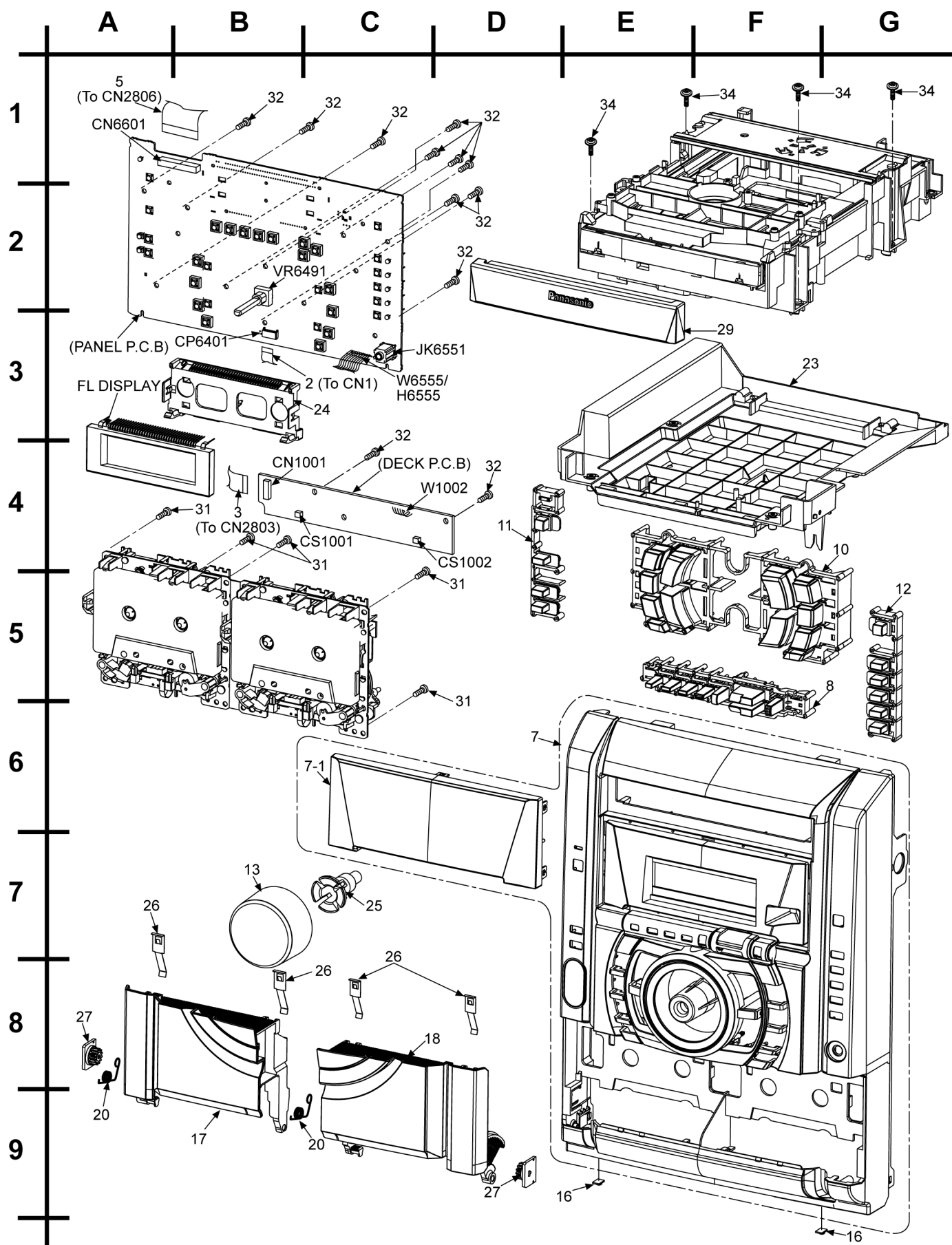
23.2.2. CD Loading Mechanism Parts List

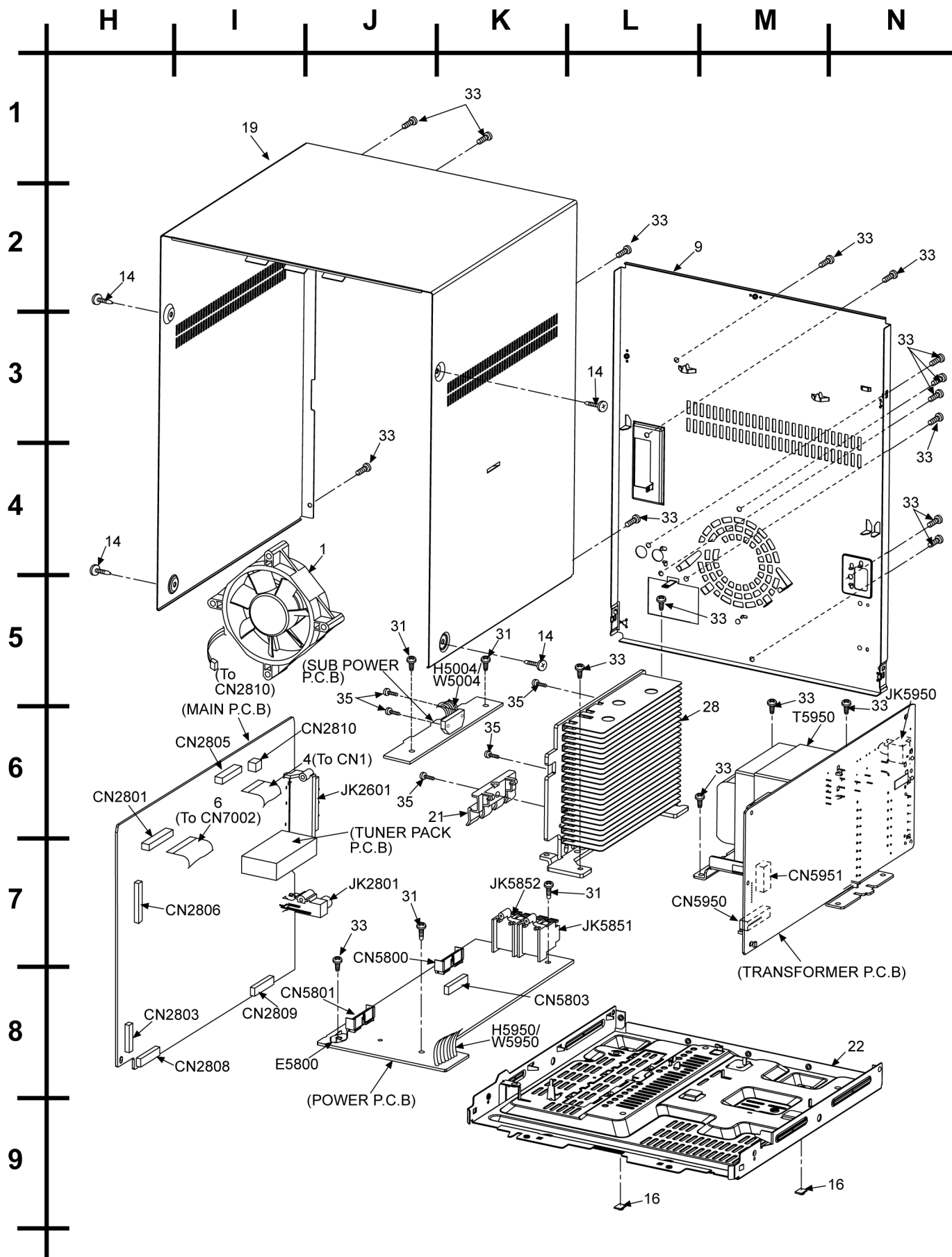
Ref. No.	Part No.	Part Name & Description	Remarks
		TRAVERSE DECK	
301	RML0517	TIMING LEVER	[M]
302	RML0516	PLUNGER LEVER	[M]
303	RMB0551	UPPER SPINDLE SPRING	[M]
304	RMQ0744	LOWER HOOK	[M]
305	RDV0056	BELT	[M]
306	RML0525	FRONT LOCK LEVER	[M]
307	RML0526	DISC LEVER	[M]
308	RDG0424	DRIVE GEAR	[M]
309	RDG0425	CHANGE GEAR	[M]
310	RDG0427	TRAVERSE CAM GEAR	[M]
311	RDG0428	TRAVERSE RELAY GEAR	[M]
312	RDG0426	UP/DOWN GEAR	[M]
313	RDG0429	PULLEY GEAR	[M]
314	RMB0549-1	CHANGE GEAR SPRING	[M]
315	RMQ0748	PITCH PLATE	[M]
316	RMB0553	PUSH SPRING	[M]
317	RML0530	ASSIST LEVER	[M]
318	RML0518	CONNECTION LEVER	[M]
319	RMM0201	SLIDE PLATE 1	[M]
320	RME0258	REAR LOCK SPRING	[M]
321	RML0521	REAR LOCK	[M]
322	RME0257	TRAY LOCK LEVER SPRING	[M]
323	RML0520	TRAY LOCK	[M]
324	RMM0202	SLIDE PLATE 2	[M]
325	XTB3+10J	SCREW	[M]
326	RMR0334	FIXED PLATE	[M]
327	RMR0624-W2	CLAMPER	[M]
328	RMB0561	ASSIST LEVER SPRING	[M]
329	RMR1121-K	MECHA COVER	[M]
330	RMA1110-2	TRAY ANGLE	[M]
331	RMR1122-H1	TRAY BASE	[M]
332	RMM0204	CARRIER	[M]
333	RMM0203	DRIVE RACK	[M]
334	RDG0432	SPEED UP GEAR	[M]
335	RML0524	SLIDE LOCK	[M]
336	RML0523	CARRIER LOCK	[M]
337	RME0260-1	SLIDE LOCK SPRING	[M]
338	RMR1123-H	TRAY	[M]
339	RXQ0595	MOTOR SUB ASS'Y	[M]
341	RSJ0003	SOLENOID ASS'Y	[M]
343	RMA1106	UPPER PLATE	[M]
344	RML0519	CD LEVER	[M]
345	RFKNAAK27GCS	MECHA BASE ASS'Y	[M]
346	RML0522	TURNING STOPPER	[M]
347	RMQ0745	LOWER SPINDLE	[M]
348	RMQ0746	UP/DOWN BASE	[M]
349	RMB0550	LOWER SPINDLE SPRING	[M]
350	RMQ0747	UPPER HOOK	[M]
351	RME0263	CLICK SPRING	[M]
352	RMQ0743	SPINDLE SHAFT	[M]
353	RMB0552	CUSHION SPRING	[M]
354	RDG0430	RELAY GEAR 'A'	[M]
355	RDG0431	RELAY GEAR 'B'	[M]
356	RME0262	DISK LEVER SPRING	[M]
357	RMA1105	SUPPORT PLATE	[M]
358	RAE0153Z-3S	TRAVERSE	[M]
358-1	SHGD113-1	FLOATING CUSHION	[M]
358-2	SNSD38	TRV MOTOR ASSY SCREW	[M]
358-3	RAF0152A-S	152A CD OPU	[M]
358-4	RDG0247	DRIVE GEAR	[M]
358-5	RDG0248	RELAY GEAR	[M]
358-6	RXQ0339	TRAVERSE MOTOR ASS'Y	[M]
358-7	RXQ0304-1	NUT PLATE ASS'Y	[M]
358-8	XQN17+CG5FJ	NUT PLATE ASSY SCREW	[M]
358-9	XQS2+A3FJ	SPINDLE MOTOR SCREW	[M]
358-10	XQS17+A35FJ	TRAVERSE MOTOR SCREW	[M]
359	RME0142	FLOATING SPRING A	[M]
360	RME0109	FLOATING SPRING B	[M]
361	RMR1124A-X	CD TRAVERSE CHASSIS	[M]
362	RMS0632	TRAVERSE PIN	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
363	XTN2+6GFJ	SCREW	[M]
369	RMX0141	PUSH SPACER	[M]
370	RMQ0749	UPPER SPINDLE	[M]
371	RHM0001	MAGNET	[M]
372	RMX0140	DISC SPACER	[M]
373	RME0261	FRONT LOCK SPRING	[M]
374	RMQ0742	SPINDLE BASE	[M]

23.3. Cabinet

23.3.1. Cabinet Parts Location





23.3.2. Cabinet Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	L6FALEFH0030	FAN	[M]
2	REEX0202	10P FFC (PANEL)	[M]
3	REEX0211	14P FFC WIRE (DECK)	[M]
4	REEX0212	14P FFC WIRE (CD)	[M]
5	REEX0402	36P FFC WIRE (PANEL)	[M]
6	REEX0447	16P FFC WIRE	[M]
7	RFGAAK630PK	FRONT PANEL ASS'Y	[M]
7-1	RKWX0239B-H	FL WINDOW	[M]
8	RGUX0592-S	MP3 BUTTON	[M]
9	RGRX0042D-FA	REAR PANEL	[M]
10	RGUX0593-S	FUNCTION BUTTON	[M]
11	RGUX0594A-1S	POWER/SSEQ BUTTON	[M]
12	RGUX0595-1S	CD EJECT/CONTROL BTN	[M]
13	RGWX0072-S	VOLUME KNOB	[M]
14	RHD30004-2S	SCREW	[M]
16	RKA0072-KJ	LEG CUSHION	[M]
17	RKFX0125-1K1	CASS LID L	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
18	RKFX0126-1K1	CASS LID R	[M]
19	RKMX0105-S	TOP CABINET	[M]
20	RMBX0036	CASS OPEN SPRING	[M]
21	RMCX0021	TRANSISTOR CLIP	[M]
22	RMKX0099-2	BOTTOM CHASSIS	[M]
23	RMKX0100	CD CHASSIS	[M]
24	RMNX0138	FL HOLDER	[M]
25	RMQX0128	VOLUME KNOB ADAPTOR	[M]
26	RUS757ZAA	CASS HALF SPRING	[M]
27	RXGX0002	DAMPER GEAR	[M]
28	RXXX0057	HEAT SINK UNIT	[M]
29	RYFX0138J-K2	CD LID UNIT	[M]
31	XTB3+10JFJ	SCREW	[M]
32	RHD26046	SCREW	[M]
33	RHD30119-S	SCREW	[M]
34	XTW3+12TFJ	SCREW	[M]
35	XTW3+15TFJ	SCREW	[M]

23.4. Electrical Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PRINTED CIRCUIT BOARD	
	REPX0443A	CD SERVO P.C.B.	[M] (RTL)
	REPX0442H	MAIN P.C.B.	[M] (RTL)
	REPX0474A	PANEL P.C.B.	[M] (RTL)
	REPX0468E	TRANSFORMER P.C.B.	[M] (RTL)
	REP2578A-N	CD LOADING P.C.B.	[M] (RTL)
	REP2578A-N	CD DETECT P.C.B.	[M] (RTL)
	REP2578A-N	SPINDLE POSITION P.C.B.	[M] (RTL)
	REP1999B	TUNER PACK P.C.B.	[M] (RTL)
	REPX0447A	POWER P.C.B.	[M] (RTL)
	REPX0447A	SUB-POWER P.C.B.	[M] (RTL)
	REPX0331D	DECK P.C.B.	[M] (RTL)
	REPX0321A	DECK MECHANISM P.C.B.	[M] (RTL)
		INTEGRATED CIRCUITS	
IC1	C0GAM0000005	IC MOTOR DRIVE	[M]
IC951	CNB13030R2AU	IC PHOTO INTERRUPTER	[M]
IC971	CNB13030R2AU	IC PHOTO INTERRUPTER	[M]
IC1001	AN7348S-E1	IC P.B. EQ/REC AMP/ALC/TPS AMP	[M]
IC1004	C1AA00000612	IC R/P SELECT	[M]
IC2601	LA1833NMNTLM	IC FM/AM IF AMP, DET/AM OSC, MIX/FM MPX	[M]
IC2602	LC72131MDTRM	IC PLL FREQUENCY SYNTHESIZER	[M]
IC2801	C2CBJG000561	IC MICROPROCESSOR	[M]
IC2803	C1BB00000732	IC AUDIO SOUND PROCESSOR	[M]
IC2804	C0AABA000009	IC DUAL OP-AMP	[M]
IC2805	C0ABBB000244	IC DUAL OP-AMP	[M]
IC2806	C0ABBB000244	IC DUAL OP-AMP	[M]
IC2810	C0ABBB000244	IC DUAL OP-AMP	[M]
IC5002	RSN35H2B-P	IC POWER HIC	[M]
IC5801	RSN315H42C-P	IC POWER HIC	[M]
IC6601	C0HBB0000039	IC FL DRIVER	[M]
IC7002	MN6627953HB	IC SERVO PROCESSOR DIGITAL SIGNAL PROCESSOR/DIGITAL FILTER/D/A CONVERTER	[M]
IC7003	AN8739SBTE2	IC FOCUS COIL/TRACKING COIL/TRVERSE MOTOR/SPINDLE MOTOR DRIVE	[M]
		TRANSISTORS	
Q1	2SK544F-AC	TRANSISTOR	[M]
Q1	B1GACFGG0004	TRANSISTOR	[M]
Q2	B1AAAC000016	TRANSISTOR	[M]
Q3	B1AAD000015	TRANSISTOR	[M]
Q4	B1AAD000015	TRANSISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
Q1003	B1AAGC000007	TRANSISTOR	[M]
Q1004	B1AAGC000007	TRANSISTOR	[M]
Q1005	B1AAGC000007	TRANSISTOR	[M]
Q1007	B1ABCF000176	TRANSISTOR	[M]
Q1017	B1AARC000003	TRANSISTOR	[M]
Q2142	B1ABCF000176	TRANSISTOR	[M]
Q2143	B1ABEB000002	TRANSISTOR	[M]
Q2181	B1ABCF000176	TRANSISTOR	[M]
Q2242	B1ABCF000176	TRANSISTOR	[M]
Q2243	B1ABEB000002	TRANSISTOR	[M]
Q2281	B1ABCF000176	TRANSISTOR	[M]
Q2501	B1GDCFJJ0047	TRANSISTOR	[M]
Q2511	B1GDCFJJ0047	TRANSISTOR	[M]
Q2512	B1ABCF000176	TRANSISTOR	[M]
Q2551	B1GDCFJJ0047	TRANSISTOR	[M]
Q2552	B1GDCFJJ0047	TRANSISTOR	[M]
Q2553	B1ABCF000176	TRANSISTOR	[M]
Q2554	B1ABCF000176	TRANSISTOR	[M]
Q2571	B1GFGCAA0001	TRANSISTOR	[M]
Q2601	B1AABC000003	TRANSISTOR	[M]
Q2606	B1GCCFJJ0016	TRANSISTOR	[M]
Q2701	2SD0592ARA	TRANSISTOR	[M]
Q2704	2SB0709AHL	TRANSISTOR	[M]
Q2705	2SB0709AHL	TRANSISTOR	[M]
Q2706	2SD0601AHL	TRANSISTOR	[M]
Q2806	B1GBCFJJ0051	TRANSISTOR	[M]
Q2901	B1ACKD000005	TRANSISTOR	[M]
Q2902	B1ACCF000064	TRANSISTOR	[M]
Q2906	B1ABCF000176	TRANSISTOR	[M]
Q2907	B1ABCF000176	TRANSISTOR	[M]
Q2936	B1ACKD000005	TRANSISTOR	[M]
Q2937	B1GBCFJJ0051	TRANSISTOR	[M]
Q2978	B1GDCFJJ0047	TRANSISTOR	[M]
Q2980	B1GDCFJJ0047	TRANSISTOR	[M]
Q5801	B1BACG000023	TRANSISTOR	[M]
Q5802	B1BCCG000002	TRANSISTOR	[M]
Q5803	B1BACG000023	TRANSISTOR	[M]
Q5804	B1BCCG000002	TRANSISTOR	[M]
Q5805	B1ACCF000094	TRANSISTOR	[M]
Q5806	B1GDCFGA0018	TRANSISTOR	[M]
Q5807	B1ABCF000176	TRANSISTOR	[M]
Q5808	B1BACD000018	TRANSISTOR	[M]
Q5812	B1ABCF000176	TRANSISTOR	[M]
Q5813	B1ABCF000176	TRANSISTOR	[M]
Q5814	B1ABCF000176	TRANSISTOR	[M]
Q5950	B1BACD000018	TRANSISTOR	[M]
Q5951	2SB0621AHA	TRANSISTOR	[M]
Q5952	B1GACFJJ0018	TRANSISTOR	[M]
Q5953	B1AACF000064	TRANSISTOR	[M]
Q6411	B1ACKD000005	TRANSISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
Q6415	B1ACKD000005	TRANSISTOR	[M]
Q6421	B1GACFLL0008	TRANSISTOR	[M]
Q6425	B1GACFLL0008	TRANSISTOR	[M]
Q6451	B1GACFLL0008	TRANSISTOR	[M]
Q6452	B1GACFLL0008	TRANSISTOR	[M]
Q6453	B1GACFLL0008	TRANSISTOR	[M]
Q6454	B1GACFLL0008	TRANSISTOR	[M]
Q6455	B1GACFLL0008	TRANSISTOR	[M]
Q6456	B1GACFLL0008	TRANSISTOR	[M]
Q6457	B1GACFLL0008	TRANSISTOR	[M]
Q7601	B1ADCF000001	TRANSISTOR	[M]
		DIODES	
D1	B0CBAD000004	DIODE	[M]
D1	B3NAA0000096	PHOTO INTERRUPTOR	[M]
D2	B0BA4R600003	DIODE	[M]
D2	B0CBAD000004	DIODE	[M]
D3	B0CBAD000004	DIODE	[M]
D951	MA2C16500E	DIODE	[M]
D971	MA2C16500E	DIODE	[M]
D1003	B0ACCK000005	DIODE	[M]
D1004	B0BC3R700004	DIODE	[M]
D2241	B0ACCK000005	DIODE	[M]
D2332	B0ADCC000002	DIODE	[M]
D2512	RB751V-40	DIODE	[M]
D2551	B0BC2R4A0006	DIODE	[M]
D2552	B0BC2R4A0006	DIODE	[M]
D2601	B0BC5R000009	DIODE	[M]
D2602	B0CDBB000015	DIODE	[M]
D2703	B0ACCK000005	DIODE	[M]
D2704	B0ACCK000005	DIODE	[M]
D2705	B0ACCK000005	DIODE	[M]
D2802	B0ADCCJ000020	DIODE	[M]
D2804	B0ACCK000005	DIODE	[M]
D2811	B0ADCCJ000020	DIODE	[M]
D2813	B0ACCK000005	DIODE	[M]
D2901	B0ADCC000002	DIODE	[M]
D2904	B0EAKM000117	DIODE	[M]
D2936	B0EAKM000117	DIODE	[M]
D2951	B0BC7R500001	DIODE	[M]
D5003	B0BC01500006	DIODE	[M]
D5801	B0BC01000014	DIODE	[M]
D5802	B0BC01500006	DIODE	[M]
D5803	B0BC01500006	DIODE	[M]
D5804	B0ACCK000005	DIODE	[M]
D5805	B0EAKM000117	DIODE	[M]
D5807	B0EAKM000117	DIODE	[M]
D5808	B0BC5R600003	DIODE	[M]
D5809	B0BC01000014	DIODE	[M]
D5813	B0ACCK000005	DIODE	[M]
D5814	B0ACCK000005	DIODE	[M]
D5820	B0BC01500006	DIODE	[M]
D5950	B0EAMM000038	DIODE	[M]
D5951	B0EAMM000038	DIODE	[M]
D5952	B0EAMM000038	DIODE	[M]
D5953	B0EAMM000038	DIODE	[M]
D5954	B0EAKM000117	DIODE	[M]
D5955	B0EAKM000117	DIODE	[M]
D5956	B0EAKM000117	DIODE	[M]
D5957	B0EAKM000117	DIODE	[M]
D5958	B0EAKM000117	DIODE	[M]
D5959	B0EAKM000117	DIODE	[M]
D5960	B0BA03100002	DIODE	[M]
D5961	B0EAKM000117	DIODE	[M]
D5962	B0EAKM000117	DIODE	[M]
D5963	B0EAKM000117	DIODE	[M]
D5964	B0BA6R600008	DIODE	[M]
D5965	B0AACK000004	DIODE	[M]
D5966	B0EAKM000117	DIODE	[M]
D5970	B0EAMM000038	DIODE	[M]
D5971	B0EAMM000038	DIODE	[M]
D5972	B0EAMM000038	DIODE	[M]
D5973	B0EAMM000038	DIODE	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
D6451	B3AAA0000583	DIODE	[M]
D6452	B3AAA0000583	DIODE	[M]
D6453	B3AAA0000583	DIODE	[M]
D6454	B3AAA0000583	DIODE	[M]
D6455	B3AAA0000583	DIODE	[M]
D6456	B3AAA0000583	DIODE	[M]
D6457	B3AAA0000583	DIODE	[M]
D6458	B3AAA0000583	DIODE	[M]
D6482	RWDJ05-050	DIODE	[M]
D6635	B0BA7R000005	DIODE	[M]
		VARIABLE RESISTORS	
VR6491	EVEKE2F2524M	VR VOLUME JOG	[M]
S951	K0J1BB000017	SW MODE	[M]
S952	K0J1BB000021	SW LEAF	[M]
S971	K0J1BB000017	SW MODE	[M]
S972	K0J1BB000021	SW LEAF	[M]
S975	K0J1BB000021	SW LEAF	[M]
S6101	EVQ21405R	SW OPEN/CLOSE	[M]
S6102	EVQ21405R	SW CD 1	[M]
S6103	EVQ21405R	SW CD 2	[M]
S6104	EVQ21405R	SW CD 3	[M]
S6105	EVQ21405R	SW CD 4	[M]
S6106	EVQ21405R	SW CD 5	[M]
S6107	EVQ21405R	SW LEFT	[M]
S6108	EVQ21405R	SW DOWN	[M]
S6109	EVQ21405R	SW RIGHT	[M]
S6110	EVQ21405R	SW UP	[M]
S6201	EVQ21405R	SW REW	[M]
S6202	EVQ21405R	SW TUNER	[M]
S6203	EVQ21405R	SW CD	[M]
S6204	EVQ21405R	SW FF	[M]
S6205	EVQ21405R	SW STOP	[M]
S6206	EVQ21405R	SW DECK 1/2	[M]
S6207	EVQ21405R	SW DECK 2	[M]
S6208	EVQ21405R	SW TAPE	[M]
S6209	EVQ21405R	SW AUX	[M]
S6210	EVQ21405R	SW DECK 1	[M]
S6301	EVQ21405R	SW POWER	[M]
S6303	EVQ21405R	SW H.BASS	[M]
S6304	EVQ21405R	SW REC	[M]
S6305	EVQ21405R	SW DEMO/DISPLAY	[M]
S6306	EVQ21405R	SW SUB-WOOFER	[M]
S6307	EVQ21405R	SW DELETE	[M]
S6308	EVQ21405R	SW MARKER	[M]
S6309	EVQ21405R	SW TITLE SEARCH	[M]
S6310	EVQ21405R	SW ENTER	[M]
S7201	RSH1A043-U	SW REST	[M]
		SWITCHES	
SW1	RSH1A032-U	SW PUSH	[M]
SW2	RSH1A032-U	SW PUSH	[M]
SW3	K0J1BB000017	SW OPEN	[M]
SW4	K0L1BA000007	SW CD	[M]
SW5	K0L1BB000005	SW LOAD	[M]
		CONNECTORS	
CN1	K1MN14A00049	14P FFC CONNECTOR	[M]
CN971	K1MN10B00104	10P FFC CONNECTOR	[M]
CN1001	K1MN14B00058	14P CONNECTOR	[M]
CN2801	RJS1A9416-1	16P CONECTOR	[M]
CN2803	RJS1A9414-1	14P CONNECTOR	[M]
CN2805	RJS1A9414-1	14P CONNECTOR	[M]
CN2806	RJS2A5636	36P CONNECTOR	[M]
CN2808	K1KB12B00036	12P CONNECTOR	[M]
CN2809	K1KB12B00036	12P CONNECTOR	[M]
CN2810	K1KA02A00008	2P CONNECTOR	[M]
CN5800	K1KA12A00184	12P CONNECTOR	[M]
CN5801	K1KA12A00184	12P CONNECTOR	[M]
CN5803	K1KA09A00227	9P CONNECTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
CN5950	K1KA09A00227	9P CONNECTOR	[M]
CN5951	K1KA09A00047	9P CONNECTOR	[M]
CN6601	RJS2A5636	36P CONNECTOR	[M]
CN7001	RJS2A8616	16P FPC CONNECTOR	[M]
CN7002	K1MN16BA0127	16P FFC CONNECTOR	[M]
CP6401	K1MN10B00104	10P FFC CONNECTOR	[M]
CS1001	K1MN05A00039	5P CONNECTOR	[M]
CS1002	K1MN05A00039	5P CONNECTOR	[M]
		CERAMIC FILTERS	
CF2601	J0B1075AA014	FM CERAMIC FILTER	[M]
CF2602	J0B1075AA014	FM CERAMIC FILTER	[M]
		COILS & TRANSFORMERS	
L1	RLQZP1R2KT-Y	COIL	[M]
L2	RLQZPR47KT-Y	COIL	[M]
L1001	G0C470JA0052	RF CHOKE COIL	[M]
L1002	7L1A62N	BIAS OSC COIL	[M]
L2601	G2A411C00001	AM COIL	[M]
L2602	G2BPC0000016	OSCILLATOR COIL	[M]
L2996	ERJ3GEY0R00V	CHIP JUMPER	[M]
T5950	G4C7AFD00014	POWER TRANSFORMER	[M] △
T5951	RTP1H3E002	BACK UP TRANSFORMER	[M] △
		COMPONENT COMBINATIONS	
Z971	RGSD12A1445T	RADA RESISTOR	[M]
Z2602	G2BAD0000003	AM IFT	[M]
Z5950	ERZV10V511CS	ZENER	[M] △
Z6481	B3RAB0000040	IR SENSOR	[M]
		RELAY	
RL5950	K6B1AEA00015	POWER RELAY	[M] △
		OSCILLATORS	
X2602	H3F1065A0002	DISCRIMINATOR	[M]
X2603	H0H720400005	CRYSTAL OSCILLATOR	[M]
X2801	H0A327200115	CRYSTAL OSCILLATOR	[M]
X2802	H2B100500004	CERAMIC RESONATORS	[M]
X7201	H2B169500002	RESONATOR	[M]
		DISPLAY TUBE	
FL6601	A2BD00000110	FL	[M]
		FUSE	
F1	K5D402APA008	4.0A FUSE	[M] △
		FUSE HOLDERS	
FC1	K3GE1BA00021	FUSE CLIP	[M]
FC2	K3GE1BA00021	FUSE CLIP	[M]
		FUSE PROTECTORS	
FP5833	K5G400A00001	FUSE PROTECTOR	[M] △
FP5950	K5G402A00025	FUSE PROTECTOR	[M] △
FP5951	K5G102A00023	FUSE PROTECTOR	[M] △
		HOLDERS	
H5004	RJS1A5509	9P CABLE HOLDER	[M]
H5950	RJS1A5509	9P CABLE HOLDER	[M]
H6555	K1YZ09000002	WIRE HOLDER	[M]
		JACKS	

Ref. No.	Part No.	Part Name & Description	Remarks
JK2601	RJH5414-1	JK ANTENNA	[M]
JK2801	K2HA204B0153	JK 2P RCA	[M]
JK5851	K4BC04B00078	JK SPEAKER	[M]
JK5852	K4BC06B00046	JK SPEAKER	[M]
JK5950	K2AB2B000007	JK AC INLET	[M] △
JK6551	K2HC103A0024	JK SMALL SIGN	[M]
		EARTH TERMINAL	
E5800	SNE1004-2	EARTH TERMINAL	[M]
		WIRES	
W1	REZ1023-1	4P WIRE	[M]
W2	REZ1024	3P WIRE	[M]
W1002	RWJ0102050CK	MAIN-MECHA MOTOR WIRE	[M]
W5004	REXX0457	9P FLAT WIRE	[M]
W5950	REXX0325	9P FLAT WIRE	[M]
W6555	REXX0324	9P FLAT WIRE	[M]
		CHIP RESISTORS	
W2930	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7001	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7002	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7003	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7004	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7005	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7006	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7007	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7008	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7009	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7010	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7011	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7012	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7013	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7014	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7015	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7016	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7017	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7018	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7019	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7020	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7021	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7022	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7023	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7024	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7025	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7027	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7028	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7033	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7034	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7040	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7041	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7042	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7043	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7044	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7050	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7051	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7052	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7053	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7054	ERJ3GEY0R00V	CHIP JUMPER	[M]
W7055	ERJ3GEY0R00V	CHIP JUMPER	[M]
		RESISTORS	
R1	ERDS2TJ102T	1K 1/4W	[M]
R1	ERDS2TJ104T	100K 1/4W	[M]
R2	ERDS2TJ104T	100K 1/4W	[M]
R3	ERDS2TJ221T	220 1/4W	[M]
R4	ERDS2TJ104T	100K 1/4W	[M]
R5	ERDS2TJ564T	560K 1/4W	[M]
R6	ERDS2TJ391T	390 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R7	ERDS2TJ272T	2.7K 1/4W	[M]
R8	ERDS2TJ684T	680K 1/4W	[M]
R9	ERDS2TJ391T	390 1/4W	[M]
R10	ERDS2TJ391T	390 1/4W	[M]
R11	ERDS2TJ684T	680K 1/4W	[M]
R952	ERDS2TJ821T	820 1/4W	[M]
R953	ERDS2TJ393T	39K 1/4W	[M]
R972	ERDS2TJ821T	820 1/4W	[M]
R973	ERDS2TJ393T	39K 1/4W	[M]
R1001	ERJ3GEYJ1R0V	1 1/16W	[M]
R1002	ERJ3GEY0R00V	0 1/16W	[M]
R1003	ERJ3GEYJ103V	10K 1/16W	[M]
R1004	ERJ3GEYJ152V	1.5K 1/16W	[M]
R1005	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1007	ERD25FVJ4R7T	4.7 1/4W	[M]
R1009	ERJ3GEYJ183V	18K 1/16W	[M]
R1010	ERJ3GEYJ183V	18K 1/16W	[M]
R1011	ERJ3GEYJ103V	10K 1/16W	[M]
R1012	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1013	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1014	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1015	ERJ3GEYJ470V	47 1/16W	[M]
R1016	ERJ3GEYJ470V	47 1/16W	[M]
R1017	ERJ3GEYJ822V	8.2K 1/16W	[M]
R1018	ERJ3GEYJ392V	3.9K 1/16W	[M]
R1019	ERJ3GEYJ392V	3.9K 1/16W	[M]
R1020	ERJ3GEY0R00V	0 1/16W	[M]
R1022	ERJ3GEYJ103V	10K 1/16W	[M]
R1024	ERJ3GEY0R00V	0 1/16W	[M]
R1025	ERJ3GEY0R00V	0 1/16W	[M]
R1026	ERJ3GEYJ102V	1K 1/16W	[M]
R1027	ERJ3GEY0R00V	0 1/16W	[M]
R1028	ERJ3GEYJ822V	8.2K 1/16W	[M]
R1029	ERJ3GEYJ475V	4.7M 1/16W	[M]
R1030	ERJ3GEYJ101V	100 1/16W	[M]
R1031	ERJ3GEYJ273V	27K 1/16W	[M]
R1032	ERJ3GEYJ103V	10K 1/16W	[M]
R1035	ERJ3GEYJ103V	10K 1/16W	[M]
R1040	ERJ3GEY0R00V	0 1/16W	[M]
R1049	ERJ3GEY0R00V	0 1/16W	[M]
R1050	ERJ3GEY0R00V	0 1/16W	[M]
R1055	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1057	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1060	ERJ3GEYJ391V	390 1/16W	[M]
R1084	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1085	ERJ3GEYJ473V	47K 1/16W	[M]
R1086	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1087	ERJ3GEYJ473V	47K 1/16W	[M]
R1090	ERJ3GEYJ221V	220 1/16W	[M]
R1091	ERJ3GEY0R00V	0 1/16W	[M]
R1092	ERJ3GEY0R00V	0 1/16W	[M]
R1097	ERJ3GEYJ103V	10K 1/16W	[M]
R1098	ERJ3GEYJ103V	10K 1/16W	[M]
R1099	ERJ3GEY0R00V	0 1/16W	[M]
R1100	ERJ3GEY0R00V	0 1/16W	[M]
R1101	ERJ3GEY0R00V	0 1/16W	[M]
R2004	ERJ3GEY0R00V	0 1/16W	[M]
R2005	ERJ3GEY0R00V	0 1/16W	[M]
R2026	ERJ3GEY0R00V	0 1/16W	[M]
R2027	ERJ3GEY0R00V	0 1/16W	[M]
R2101	ERJ3GEYJ122V	1.2K 1/16W	[M]
R2102	ERJ3GEYJ182V	1.8K 1/16W	[M]
R2103	ERJ3GEYJ682V	6.8K 1/16W	[M]
R2106	ERJ3GEYJ101V	100 1/16W	[M]
R2107	ERJ3GEYJ473V	47K 1/16W	[M]
R2108	ERJ3GEYJ682V	6.8K 1/16W	[M]
R2111	ERJ3GEYJ103V	10K 1/16W	[M]
R2112	ERJ3GEYJ223V	22K 1/16W	[M]
R2113	ERJ3GEYJ103V	10K 1/16W	[M]
R2116	ERJ3GEYJ123V	12K 1/16W	[M]
R2117	ERJ3GEYJ272V	2.7K 1/16W	[M]
R2118	ERJ3GEYJ103V	10K 1/16W	[M]
R2141	ERJ3GEYJ272V	2.7K 1/16W	[M]
R2142	ERJ3GEYJ223V	22K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R2143	ERJ3GEYJ104V	100K 1/16W	[M]
R2145	ERJ3GEYJ103V	10K 1/16W	[M]
R2146	ERJ3GEYJ102V	1K 1/16W	[M]
R2149	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2152	ERJ3GEYJ102V	1K 1/16W	[M]
R2153	ERJ3GEYJ223V	22K 1/16W	[M]
R2154	ERJ3GEYJ104V	100K 1/16W	[M]
R2166	ERJ3GEYJ330V	33 1/16W	[M]
R2167	ERJ3GEYJ330V	33 1/16W	[M]
R2168	ERJ3GEYJ330V	33 1/16W	[M]
R2169	ERJ3GEYJ330V	33 1/16W	[M]
R2170	ERJ3GEYJ1R0V	1 1/16W	[M]
R2171	ERJ3GEYJ332V	3.3K 1/16W	[M]
R2181	ERJ3GEYJ332V	3.3K 1/16W	[M]
R2182	ERJ3GEYJ183V	18K 1/16W	[M]
R2183	ERJ3GEYJ562V	5.6K 1/16W	[M]
R2184	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2191	ERJ3GEYJ102V	1K 1/16W	[M]
R2192	ERJ3GEY0R00V	0 1/16W	[M]
R2193	ERJ3GEYJ104V	100K 1/16W	[M]
R2196	ERJ3GEYJ123V	12K 1/16W	[M]
R2197	ERJ3GEY0R00V	0 1/16W	[M]
R2201	ERJ3GEYJ122V	1.2K 1/16W	[M]
R2202	ERJ3GEYJ182V	1.8K 1/16W	[M]
R2206	ERJ3GEYJ101V	100 1/16W	[M]
R2207	ERJ3GEYJ473V	47K 1/16W	[M]
R2211	ERJ3GEYJ103V	10K 1/16W	[M]
R2212	ERJ3GEYJ223V	22K 1/16W	[M]
R2216	ERJ3GEYJ123V	12K 1/16W	[M]
R2217	ERJ3GEYJ272V	2.7K 1/16W	[M]
R2241	ERJ3GEYJ272V	2.7K 1/16W	[M]
R2242	ERJ3GEYJ223V	22K 1/16W	[M]
R2243	ERJ3GEYJ104V	100K 1/16W	[M]
R2245	ERJ3GEYJ103V	10K 1/16W	[M]
R2246	ERJ3GEYJ102V	1K 1/16W	[M]
R2247	ERJ3GEYJ104V	100K 1/16W	[M]
R2248	ERJ3GEYJ682V	6.8K 1/16W	[M]
R2249	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2252	ERJ3GEYJ102V	1K 1/16W	[M]
R2253	ERJ3GEYJ223V	22K 1/16W	[M]
R2254	ERJ3GEYJ104V	100K 1/16W	[M]
R2266	ERJ3GEYJ330V	33 1/16W	[M]
R2267	ERJ3GEYJ330V	33 1/16W	[M]
R2268	ERJ3GEYJ330V	33 1/16W	[M]
R2269	ERJ3GEYJ330V	33 1/16W	[M]
R2270	ERJ3GEYJ1R0V	1 1/16W	[M]
R2271	ERJ3GEYJ332V	3.3K 1/16W	[M]
R2281	ERJ3GEYJ332V	3.3K 1/16W	[M]
R2282	ERJ3GEYJ183V	18K 1/16W	[M]
R2283	ERJ3GEYJ562V	5.6K 1/16W	[M]
R2284	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2291	ERJ3GEYJ102V	1K 1/16W	[M]
R2292	ERJ3GEY0R00V	0 1/16W	[M]
R2293	ERJ3GEYJ104V	100K 1/16W	[M]
R2296	ERJ3GEYJ123V	12K 1/16W	[M]
R2297	ERJ3GEY0R00V	0 1/16W	[M]
R2301	ERJ3GEYJ473V	47K 1/16W	[M]
R2302	ERJ3GEYJ153V	15K 1/16W	[M]
R2303	ERJ3GEYJ334V	330K 1/16W	[M]
R2304	ERJ3GEYJ823V	82K 1/16W	[M]
R2311	ERJ3GEY0R00V	0 1/16W	[M]
R2316	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2317	ERJ3GEYJ104V	100K 1/16W	[M]
R2318	ERJ3GEYJ272V	2.7K 1/16W	[M]
R2320	ERJ3GEY0R00V	0 1/16W	[M]
R2331	ERJ3GEY0R00V	0 1/16W	[M]
R2332	ERJ3GEYJ393V	39K 1/16W	[M]
R2333	ERJ3GEY0R00V	0 1/16W	[M]
R2337	ERJ3GEYJ474V	470K 1/16W	[M]
R2338	ERJ3GEYJ102V	1K 1/16W	[M]
R2339	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2401	ERJ3GEYJ473V	47K 1/16W	[M]
R2402	ERJ3GEYJ153V	15K 1/16W	[M]
R2403	ERJ3GEYJ334V	330K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R2404	ERJ3GEYJ823V	82K 1/16W	[M]
R2411	ERJ3GEY0R00V	0 1/16W	[M]
R2416	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2417	ERJ3GEYJ104V	100K 1/16W	[M]
R2418	ERJ3GEYJ272V	2.7K 1/16W	[M]
R2420	ERJ3GEY0R00V	0 1/16W	[M]
R2439	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2501	ERJ3GEYJ682V	6.8K 1/16W	[M]
R2502	ERJ3GEYJ104V	100K 1/16W	[M]
R2503	ERJ3GEYJ154V	150K 1/16W	[M]
R2511	ERJ3GEYJ224V	220K 1/16W	[M]
R2512	ERJ3GEY0R00V	0 1/16W	[M]
R2513	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2514	ERJ3GEYJ104V	100K 1/16W	[M]
R2515	ERJ3GEYJ822V	8.2K 1/16W	[M]
R2516	ERJ3GEYJ102V	1K 1/16W	[M]
R2517	ERJ3GEYJ104V	100K 1/16W	[M]
R2518	ERJ3GEYJ104V	100K 1/16W	[M]
R2519	ERJ3GEYJ183V	18K 1/16W	[M]
R2520	ERJ3GEYJ103V	10K 1/16W	[M]
R2521	ERJ3GEYJ103V	10K 1/16W	[M]
R2522	ERJ3GEYJ103V	10K 1/16W	[M]
R2523	ERJ3GEYJ104V	100K 1/16W	[M]
R2524	ERJ3GEYJ102V	1K 1/16W	[M]
R2525	ERJ3GEYJ104V	100K 1/16W	[M]
R2527	ERJ3GEYJ102V	1K 1/16W	[M]
R2531	ERJ3GEY0R00V	0 1/16W	[M]
R2532	ERJ3GEY0R00V	0 1/16W	[M]
R2533	ERJ3GEYJ103V	10K 1/16W	[M]
R2534	ERJ3GEYJ152V	1.5K 1/16W	[M]
R2535	ERJ3GEYJ333V	33K 1/16W	[M]
R2537	ERJ3GEYJ102V	1K 1/16W	[M]
R2538	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2539	ERJ3GEYJ104V	100K 1/16W	[M]
R2555	ERJ3GEYJ102V	1K 1/16W	[M]
R2556	ERJ3GEYJ102V	1K 1/16W	[M]
R2557	ERJ3GEYJ102V	1K 1/16W	[M]
R2558	ERJ3GEYJ332V	3.3K 1/16W	[M]
R2559	ERJ3GEYJ183V	18K 1/16W	[M]
R2560	ERJ3GEYJ332V	3.3K 1/16W	[M]
R2561	ERJ3GEYJ273V	27K 1/16W	[M]
R2562	ERJ3GEYJ473V	47K 1/16W	[M]
R2563	ERJ3GEYJ473V	47K 1/16W	[M]
R2564	ERJ3GEYJ334V	330K 1/16W	[M]
R2565	ERJ3GEYJ392V	3.9K 1/16W	[M]
R2566	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2568	ERJ3GEYJ104V	100K 1/16W	[M]
R2571	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2582	ERJ3GEY0R00V	0 1/16W	[M]
R2584	ERJ3GEYJ334V	330K 1/16W	[M]
R2585	ERJ3GEYJ334V	330K 1/16W	[M]
R2586	ERJ3GEYJ122V	1.2K 1/16W	[M]
R2587	ERJ3GEYJ122V	1.2K 1/16W	[M]
R2591	ERJ3GEYJ334V	330K 1/16W	[M]
R2592	ERJ3GEY0R00V	0 1/16W	[M]
R2601	ERJ3GEY0R00V	0 1/16W	[M]
R2602	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2603	ERJ3GEYJ271V	270 1/16W	[M]
R2604	ERJ3GEYJ102V	1K 1/16W	[M]
R2605	ERJ3GEYJ471V	470 1/16W	[M]
R2606	ERJ3GEYJ474V	470K 1/16W	[M]
R2607	ERJ3GEYJ331V	330 1/16W	[M]
R2610	ERJ3GEYJ102V	1K 1/16W	[M]
R2611	ERJ3GEYJ391V	390 1/16W	[M]
R2612	ERJ3GEYJ104V	100K 1/16W	[M]
R2613	ERJ3GEYJ103V	10K 1/16W	[M]
R2614	ERJ3GEYJ562V	5.6K 1/16W	[M]
R2615	ERJ3GEYJ561V	560 1/16W	[M]
R2616	ERJ3GEYJ102V	1K 1/16W	[M]
R2617	ERJ3GEYJ473V	47K 1/16W	[M]
R2618	ERJ3GEYJ332V	3.3K 1/16W	[M]
R2619	ERJ3GEYJ332V	3.3K 1/16W	[M]
R2620	ERJ3GEYJ473V	47K 1/16W	[M]
R2621	ERJ3GEYJ223V	22K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R2622	ERJ3GEYJ272V	2.7K 1/16W	[M]
R2623	ERJ3GEYJ683V	68K 1/16W	[M]
R2624	ERJ3GEYJ330V	33 1/16W	[M]
R2625	ERJ3GEYJ471V	470 1/16W	[M]
R2626	ERJ3GEYJ102V	1K 1/16W	[M]
R2627	ERJ3GEYJ471V	470 1/16W	[M]
R2628	ERJ3GEYJ820V	82 1/16W	[M]
R2629	ERJ3GEYJ273V	27K 1/16W	[M]
R2630	ERJ3GEYJ103V	10K 1/16W	[M]
R2631	ERJ3GEYJ121V	120 1/16W	[M]
R2632	ERJ3GEYJ103V	10K 1/16W	[M]
R2633	ERJ3GEYJ102V	1K 1/16W	[M]
R2634	ERJ3GEYJ471V	470 1/16W	[M]
R2635	ERJ3GEYJ102V	1K 1/16W	[M]
R2636	ERJ3GEYJ102V	1K 1/16W	[M]
R2637	ERJ3GEYJ102V	1K 1/16W	[M]
R2638	ERJ3GEYJ332V	3.3K 1/16W	[M]
R2641	ERJ3GEYJ682V	6.8K 1/16W	[M]
R2642	ERJ3GEYJ682V	6.8K 1/16W	[M]
R2643	ERJ3GEYJ223V	22K 1/16W	[M]
R2644	ERJ3GEYJ121V	120 1/16W	[M]
R2645	ERJ3GEYJ104V	100K 1/16W	[M]
R2646	ERJ3GEYJ104V	100K 1/16W	[M]
R2651	ERJ3GEYJ820V	82 1/16W	[M]
R2652	ERJ3GEY0R00V	0 1/16W	[M]
R2701	ERJ3GEYJ225V	2.2M 1/16W	[M]
R2702	ERJ3GEYJ332V	3.3K 1/16W	[M]
R2704	ERJ3GEY0R00V	0 1/16W	[M]
R2705	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2706	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2707	ERJ3GEYJ102V	1K 1/16W	[M]
R2708	ERJ3GEYJ103V	10K 1/16W	[M]
R2709	ERJ3GEYJ104V	100K 1/16W	[M]
R2710	ERJ3GEYJ224V	220K 1/16W	[M]
R2711	ERJ3GEYJ101V	100 1/16W	[M]
R2712	ERDS1FVJ220T	22 1/2W	[M]
R2713	ERJ3GEYJ104V	100K 1/16W	[M]
R2714	ERJ3GEYJ124V	120K 1/16W	[M]
R2715	ERJ3GEYJ103V	10K 1/16W	[M]
R2763	ERJ3GEY0R00V	0 1/16W	[M]
R2764	ERJ3GEY0R00V	0 1/16W	[M]
R2801	ERJ3GEYJ103V	10K 1/16W	[M]
R2802	ERJ3GEYJ101V	100 1/16W	[M]
R2803	ERJ3GEYJ103V	10K 1/16W	[M]
R2804	ERJ3GEYJ473V	47K 1/16W	[M]
R2805	ERJ3GEYJ473V	47K 1/16W	[M]
R2806	ERJ3GEYJ103V	10K 1/16W	[M]
R2807	ERJ3GEYJ103V	10K 1/16W	[M]
R2810	ERJ3GEYJ223V	22K 1/16W	[M]
R2811	ERJ3GEY0R00V	0 1/16W	[M]
R2817	ERJ3GEYJ104V	100K 1/16W	[M]
R2818	ERJ3GEYJ104V	100K 1/16W	[M]
R2819	ERJ3GEYJ104V	100K 1/16W	[M]
R2820	ERJ3GEYJ104V	100K 1/16W	[M]
R2821	ERJ3GEYJ104V	100K 1/16W	[M]
R2822	ERJ3GEYJ104V	100K 1/16W	[M]
R2823	ERJ3GEYJ104V	100K 1/16W	[M]
R2824	ERJ3GEYJ104V	100K 1/16W	[M]
R2834	ERJ3GEYJ102V	1K 1/16W	[M]
R2841	ERJ3GEYJ103V	10K 1/16W	[M]
R2842	ERJ3GEYJ103V	10K 1/16W	[M]
R2843	ERJ3GEYJ102V	1K 1/16W	[M]
R2844	ERJ3GEYJ103V	10K 1/16W	[M]
R2845	ERJ3GEYJ103V	10K 1/16W	[M]
R2846	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2856	ERJ3GEYJ101V	100 1/16W	[M]
R2857	ERJ3GEYJ101V	100 1/16W	[M]
R2858	ERJ3GEYJ101V	100 1/16W	[M]
R2859	ERJ3GEYJ101V	100 1/16W	[M]
R2860	ERJ3GEYJ101V	100 1/16W	[M]
R2861	ERJ3GEYJ101V	100 1/16W	[M]
R2862	ERJ3GEYJ101V	100 1/16W	[M]
R2867	ERJ3GEYJ104V	100K 1/16W	[M]
R2876	ERJ3GEYJ223V	22K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R2877	ERJ3GEYJ223V	22K 1/16W	[M]
R2878	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2881	ERJ3GEYJ221V	220 1/16W	[M]
R2882	ERJ3GEYJ106V	10M 1/16W	[M]
R2883	ERJ3GEYJ334V	330K 1/16W	[M]
R2886	ERJ3GEYJ105V	1M 1/16W	[M]
R2891	ERJ3GEYJ473V	47K 1/16W	[M]
R2892	ERJ3GEY0R00V	0 1/16W	[M]
R2899	ERJ3GEYJ473V	47K 1/16W	[M]
R2901	ERJ3GEYJ103V	10K 1/16W	[M]
R2902	ERDS1FVJ120T	12 1/2W	[M]
R2903	ERDS1FVJ150T	15 1/2W	[M]
R2907	ERJ3GEYJ102V	1K 1/16W	[M]
R2908	ERJ3GEYJ331V	330 1/16W	[M]
R2909	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2910	ERJ3GEYJ331V	330 1/16W	[M]
R2911	ERJ3GEY0R00V	0 1/16W	[M]
R2912	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2913	ERJ3GEY0R00V	0 1/16W	[M]
R2914	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2915	ERJ3GEY0R00V	0 1/16W	[M]
R2916	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2917	ERJ3GEY0R00V	0 1/16W	[M]
R2918	ERJ3GEYJ103V	10K 1/16W	[M]
R2919	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2920	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2921	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2922	ERJ3GEYJ103V	10K 1/16W	[M]
R2923	ERJ3GEY0R00V	0 1/16W	[M]
R2924	ERJ3GEYJ103V	10K 1/16W	[M]
R2925	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2926	ERJ3GEY0R00V	0 1/16W	[M]
R2927	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2928	ERJ3GEYJ103V	10K 1/16W	[M]
R2929	ERJ3GEYJ103V	10K 1/16W	[M]
R2930	ERJ3GEYJ103V	10K 1/16W	[M]
R2931	ERJ3GEYJ103V	10K 1/16W	[M]
R2932	ERJ3GEY0R00V	0 1/16W	[M]
R2933	ERJ3GEY0R00V	0 1/16W	[M]
R2936	ERJ3GEYJ102V	1K 1/16W	[M]
R2937	ERJ3GEYJ103V	10K 1/16W	[M]
R2938	ERJ3GEYJ123V	12K 1/16W	[M]
R2939	ERJ3GEYJ223V	22K 1/16W	[M]
R2940	ERJ3GEYJ221V	220 1/16W	[M]
R2941	ERJ3GEYJ123V	12K 1/16W	[M]
R2942	ERJ3GEYJ223V	22K 1/16W	[M]
R2943	ERJ3GEYJ103V	10K 1/16W	[M]
R2944	ERJ3GEYJ103V	10K 1/16W	[M]
R2945	ERJ3GEYJ473V	47K 1/16W	[M]
R2946	ERJ3GEYJ473V	47K 1/16W	[M]
R2952	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2953	ERJ3GEYJ103V	10K 1/16W	[M]
R2954	ERDS1FVJ270T	27 1/2W	[M]
R2976	ERJ3GEY0R00V	0 1/16W	[M]
R2977	ERJ3GEY0R00V	0 1/16W	[M]
R5036	ERJ3GEYJ334V	330K 1/16W	[M]
R5077	ERJ3GEYJ563V	56K 1/16W	[M]
R5245	ERJ3GEYJ332V	3.3K 1/16W	[M]
R5246	ERJ3GEYJ153V	15K 1/16W	[M]
R5247	ERJ3GEYJ332V	3.3K 1/16W	[M]
R5248	ERJ3GEYJ153V	15K 1/16W	[M]
R5249	ERJ3GEYJ683V	68K 1/16W	[M]
R5250	ERJ3GEYJ683V	68K 1/16W	[M]
R5251	ERJ3GEYJ154V	150K 1/16W	[M]
R5252	ERJ3GEYJ104V	100K 1/16W	[M]
R5255	ERDS1FVJ100T	10 1/2W	[M]
R5256	ERDS1FVJ100T	10 1/2W	[M]
R5445	ERJ3GEYJ332V	3.3K 1/16W	[M]
R5446	ERJ3GEYJ153V	15K 1/16W	[M]
R5447	ERJ3GEYJ332V	3.3K 1/16W	[M]
R5448	ERJ3GEYJ153V	15K 1/16W	[M]
R5449	ERJ3GEYJ683V	68K 1/16W	[M]
R5450	ERJ3GEYJ683V	68K 1/16W	[M]
R5451	ERJ3GEYJ563V	56K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R5452	ERJ3GEYJ224V	220K 1/16W	[M]
R5455	ERDS1FVJ100T	10 1/2W	[M]
R5456	ERDS1FVJ100T	10 1/2W	[M]
R5457	ERDS1FVJ270T	27 1/2W	[M]
R5635	ERJ3GEYJ104V	100K 1/16W	[M]
R5669	ERJ3GEYJ272V	2.7K 1/16W	[M]
R5670	ERJ3GEYJ563V	56K 1/16W	[M]
R5671	ERJ3GEYJ334V	330K 1/16W	[M]
R5673	ERDS1FVJ100T	10 1/2W	[M]
R5734	ERJ3GEYJ562V	5.6K 1/16W	[M]
R5769	ERJ3GEYJ563V	56K 1/16W	[M]
R5770	ERJ3GEYJ104V	100K 1/16W	[M]
R5771	ERJ3GEYJ274V	270K 1/16W	[M]
R5772	ERJ3GEYJ223V	22K 1/16W	[M]
R5773	ERDS1FVJ100T	10 1/2W	[M]
R5777	ERJ3GEYJ563V	56K 1/16W	[M]
R5801	ERJ3GEYJ103V	10K 1/16W	[M]
R5802	ERJ3GEYJ223V	22K 1/16W	[M]
R5803	ERJ3GEY0R00V	0 1/16W	[M]
R5804	ERJ3GEYJ473V	47K 1/16W	[M]
R5805	ERJ3GEYJ473V	47K 1/16W	[M]
R5806	ERJ3GEYJ104V	100K 1/16W	[M]
R5807	ERDS1FVJ331T	330 1/2W	[M]
R5808	ERDS1FVJ331T	330 1/2W	[M]
R5809	ERDS1FVJ331T	330 1/2W	[M]
R5810	ERJ3GEYJ272V	2.7K 1/16W	[M]
R5811	ERJ3GEYJ471V	470 1/16W	[M]
R5812	ERJ3GEYJ272V	2.7K 1/16W	[M]
R5813	ERJ3GEYJ332V	3.3K 1/16W	[M]
R5814	ERJ3GEYJ332V	3.3K 1/16W	[M]
R5815	ERDS1FVJ270T	27 1/2W	[M]
R5816	ERDS1FVJ270T	27 1/2W	[M]
R5822	ERJ3GEYJ332V	3.3K 1/16W	[M]
R5823	ERJ3GEYJ471V	470 1/16W	[M]
R5824	ERDS1FVJ2R2T	2.2 1/2W	[M]
R5825	ERDS1FVJ2R2T	2.2 1/2W	[M]
R5826	ERDS1FVJ2R2T	2.2 1/2W	[M]
R5827	ERDS1FVJ2R2T	2.2 1/2W	[M]
R5828	ERJ3GEYJ103V	10K 1/16W	[M]
R5829	ERDS1FVJ331T	330 1/2W	[M]
R5830	ERJ3GEYJ122V	1.2K 1/16W	[M]
R5831	ERJ3GEYJ222V	2.2K 1/16W	[M]
R5834	ERDS1FVJ150T	15 1/2W	[M]
R5841	ERDS1FVJ331T	330 1/2W	[M]
R5843	ERDS1FVJ6R8T	6.8 1/2W	[M]
R5844	ERDS1FVJ6R8T	6.8 1/2W	[M]
R5845	ERDS1FVJ6R8T	6.8 1/2W	[M]
R5846	ERDS1FVJ6R8T	6.8 1/2W	[M]
R5848	ERDS1FVJ6R8T	6.8 1/2W	[M]
R5853	ERJ3GEYJ224V	220K 1/16W	[M]
R5854	ERJ3GEYJ103V	10K 1/16W	[M]
R5855	ERJ3GEYJ223V	22K 1/16W	[M]
R5856	ERJ3GEYJ103V	10K 1/16W	[M]
R5857	ERJ3GEYJ223V	22K 1/16W	[M]
R5862	ERJ3GEY0R00V	0 1/16W	[M]
R5882	ERJ3GEYJ151V	150 1/16W	[M]
R5897	ERDS1FVJ220T	22 1/2W	[M]
R5950	ERC12UGK335D	3.3M 1/2W	[M]
R5951	ERDS2TJ332T	3.3K 1/4W	[M]
R5952	ERDS2TJ102T	1K 1/4W	[M]
R5953	ERDS2TJ151T	150 1/4W	[M]
R5954	ERDS1FVJ100T	10 1/2W	[M]
R5955	ERDS1FVJ100T	10 1/2W	[M]
R5956	ERDS1FVJ100T	10 1/2W	[M]
R5957	ERDS2TJ103T	10K 1/4W	[M]
R5958	ERDS2TJ103T	10K 1/4W	[M]
R5960	ERDS2TJ472T	4.7K 1/4W	[M]
R5961	ERDS2TJ151T	150 1/4W	[M]
R5965	ERDS2TJ123T	12K 1/4W	[M]
R6102	ERDS2TJ102T	1K 1/4W	[M]
R6103	ERDS2TJ102T	1K 1/4W	[M]
R6104	ERDS2TJ122T	1.2K 1/4W	[M]
R6105	ERDS2TJ182T	1.8K 1/4W	[M]
R6106	ERDS2TJ222T	2.2K 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R6107	ERDS2TJ272T	2.7K 1/4W	[M]
R6108	ERDS2TJ472T	4.7K 1/4W	[M]
R6109	ERDS2TJ682T	6.8K 1/4W	[M]
R6110	ERDS2TJ103T	10K 1/4W	[M]
R6111	ERDS2TJ223T	22K 1/4W	[M]
R6199	ERDS2TJ103T	10K 1/4W	[M]
R6202	ERDS2TJ102T	1K 1/4W	[M]
R6203	ERDS2TJ102T	1K 1/4W	[M]
R6204	ERDS2TJ122T	1.2K 1/4W	[M]
R6205	ERDS2TJ182T	1.8K 1/4W	[M]
R6206	ERDS2TJ222T	2.2K 1/4W	[M]
R6207	ERDS2TJ272T	2.7K 1/4W	[M]
R6208	ERDS2TJ472T	4.7K 1/4W	[M]
R6209	ERDS2TJ682T	6.8K 1/4W	[M]
R6210	ERDS2TJ103T	10K 1/4W	[M]
R6302	ERDS2TJ102T	1K 1/4W	[M]
R6303	ERDS2TJ102T	1K 1/4W	[M]
R6304	ERDS2TJ122T	1.2K 1/4W	[M]
R6305	ERDS2TJ182T	1.8K 1/4W	[M]
R6306	ERDS2TJ222T	2.2K 1/4W	[M]
R6307	ERDS2TJ272T	2.7K 1/4W	[M]
R6308	ERDS2TJ472T	4.7K 1/4W	[M]
R6309	ERDS2TJ682T	6.8K 1/4W	[M]
R6310	ERDS2TJ103T	10K 1/4W	[M]
R6399	ERDS2TJ103T	10K 1/4W	[M]
R6401	ERDS2TJ103T	10K 1/4W	[M]
R6402	ERDS2TJ103T	10K 1/4W	[M]
R6403	ERDS2TJ2R7T	2.7 1/4W	[M]
R6404	ERDS2TJ2R7T	2.7 1/4W	[M]
R6405	ERDS2TJ274T	270K 1/4W	[M]
R6406	ERDS2TJ274T	270K 1/4W	[M]
R6411	ERDS2TJ223T	22K 1/4W	[M]
R6412	ERDS2TJ102T	1K 1/4W	[M]
R6415	ERDS2TJ223T	22K 1/4W	[M]
R6416	ERDS2TJ102T	1K 1/4W	[M]
R6421	ERDS2TJ103T	10K 1/4W	[M]
R6425	ERDS2TJ103T	10K 1/4W	[M]
R6451	ERDS2TJ392T	3.9K 1/4W	[M]
R6452	ERDS2TJ392T	3.9K 1/4W	[M]
R6453	ERDS2TJ392T	3.9K 1/4W	[M]
R6454	ERDS2TJ392T	3.9K 1/4W	[M]
R6455	ERDS2TJ392T	3.9K 1/4W	[M]
R6456	ERDS2TJ392T	3.9K 1/4W	[M]
R6457	ERDS2TJ392T	3.9K 1/4W	[M]
R6458	ERDS2TJ472T	4.7K 1/4W	[M]
R6491	ERDS2TJ473T	47K 1/4W	[M]
R6492	ERDS2TJ473T	47K 1/4W	[M]
R6493	ERDS2TJ103T	10K 1/4W	[M]
R6601	ERDS2TJ471T	470 1/4W	[M]
R6602	ERDS2TJ471T	470 1/4W	[M]
R6603	ERDS2TJ221T	220 1/4W	[M]
R6604	ERDS2TJ221T	220 1/4W	[M]
R6611	ERDS2TJ153T	15K 1/4W	[M]
R6631	ERD2FCVG470T	47 1/4W	[M]
R6632	ERD2FCVG470T	47 1/4W	[M]
R7102	ERJ3GEYJ472V	4.7K 1/16W	[M]
R7104	ERJ3GEYJ102V	1K 1/16W	[M]
R7105	ERJ3GEYJ393V	39K 1/16W	[M]
R7106	ERJ3GEYJ102V	1K 1/16W	[M]
R7144	ERJ3GEYJ473V	47K 1/16W	[M]
R7211	ERJ3GEYJ823V	82K 1/16W	[M]
R7212	ERJ3GEYJ821V	820 1/16W	[M]
R7214	ERJ3GEYJ681V	680 1/16W	[M]
R7217	ERJ3GEYJ102V	1K 1/16W	[M]
R7218	ERJ3GEYJ102V	1K 1/16W	[M]
R7220	ERJ3GEYJ105V	1M 1/16W	[M]
R7221	ERJ3GEYJ101V	100 1/16W	[M]
R7253	ERJ3GEYJ100V	10 1/16W	[M]
R7254	ERJ3GEYJ102V	1K 1/16W	[M]
R7315	ERJ3GEYJ272V	2.7K 1/16W	[M]
R7323	ERJ3GEYJ562V	5.6K 1/16W	[M]
R7325	ERJ3GEYJ561V	560 1/16W	[M]
R7327	ERJ3GEYJ152V	1.5K 1/16W	[M]
R7328	ERJ3GEYJ183V	18K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R7329	ERJ3GEYJ152V	1.5K 1/16W	[M]
R7331	ERJ3GEYJ223V	22K 1/16W	[M]
R7335	ERJ3GEYJ101V	100 1/16W	[M]
R7336	ERJ3GEYJ100V	10 1/16W	[M]
R7339	ERJ3GEYJ102V	1K 1/16W	[M]
R7349	ERJ3GEYJ153V	15K 1/16W	[M]
R7601	ERJ3GEYJ4R7V	4.7 1/16W	[M]
R7650	ERJ3GEYJ5R6V	5.6 1/16W	[M]
		CAPACITORS	
C1	ECEA1CKA101B	100 16V	[M]
C1	F1D1H5R6A017	5.6P 50V	[M]
C2	F1D1E103A001	0.01 25V	[M]
C2	F1D1H102A029	1000P 50V	[M]
C3	F1D1H2R2A017	2.2P 50V	[M]
C4	F1D1H181A012	180P 50V	[M]
C5	F1D1H5R6A017	5.6P 50V	[M]
C6	F1D1H3R3A017	3.3P 50V	[M]
C7	F1D1H4R7A017	4.7P 50V	[M]
C8	F1D1H3R3A017	3.3P 50V	[M]
C9	F1D1H2R2A017	2.2P 50V	[M]
C10	F1D1H180A015	18P 50V	[M]
C11	F1D1H102A029	1000P 50V	[M]
C1002	ECEA1HKN2R2B	2.2 50V	[M]
C1006	ECEA1HKA010B	1 50V	[M]
C1007	F0A2A472A034	4700P 100V	[M]
C1008	ECEA1HKA010B	1 50V	[M]
C1009	ECEA1CKA470B	47 16V	[M]
C1010	ECA1EM101B	100 25V	[M]
C1011	ECQV1H473JZ3	0.047 50V	[M]
C1012	ECJ1VB1H102K	1000P 50V	[M]
C1013	ECJ1VB1H102K	1000P 50V	[M]
C1014	ECJ1VB1H102K	1000P 50V	[M]
C1015	ECJ1VB1H102K	1000P 50V	[M]
C1016	ECJ1VB1H222K	2200P 50V	[M]
C1017	ECJ1VB1H222K	2200P 50V	[M]
C1018	ECJ1VB1H103K	0.01 50V	[M]
C1019	ECJ1VB1H102K	1000P 50V	[M]
C1020	ECJ1VB1H471K	470P 50V	[M]
C1021	ECJ1VB1H471K	470P 50V	[M]
C1022	ECJ1VB1H102K	1000P 50V	[M]
C1023	ECJ1VB1H102K	1000P 50V	[M]
C1026	ECEA0JKA470B	47 6.3V	[M]
C1027	ECJ1VB1H102K	1000P 50V	[M]
C1030	ECEA1AKA101B	100 10V	[M]
C1031	ECA1AM101B	100 10V	[M]
C1032	F1C1C183A023	0.018 16V	[M]
C1033	F1C1C183A023	0.018 16V	[M]
C1034	ECEA1HKA3R3B	3.3 50V	[M]
C1035	ECEA1HKA3R3B	3.3 50V	[M]
C1036	ECJ1VB1C333K	0.033 16V	[M]
C1037	ECEA1HKA3R3B	3.3 50V	[M]
C1038	ECJ1VB1H221K	220P 50V	[M]
C1039	ECJ1VB1H221K	220P 50V	[M]
C1040	ECEA1CKA100B	10 16V	[M]
C1041	ECEA1CKA100B	10 16V	[M]
C1042	ECEA1CKA220B	22 16V	[M]
C1043	ECEA1HKA4R7B	4.7 50V	[M]
C1044	ECEA1AKA330B	33 10V	[M]
C1045	ECEA1AKA220B	22 10V	[M]
C1046	ECA1CM221B	220 16V	[M]
C1049	ECJ1VB1H332K	3300P 50V	[M]
C1050	ECJ1VB1H332K	3300P 50V	[M]
C1056	ECEA1CKA100B	10 16V	[M]
C1057	ECJ1VB1H102K	1000P 50V	[M]
C1058	ECJ1VB1H102K	1000P 50V	[M]
C1059	ECJ1VB1H103K	0.01 50V	[M]
C2101	ECJ1VB1C105K	1 16V	[M]
C2102	ECJ1VB1C104K	0.1 16V	[M]
C2103	ECJ1VB1H102K	1000P 50V	[M]
C2106	ECJ1VB1H332K	3300P 50V	[M]
C2107	ECJ1VB1C104K	0.1 16V	[M]
C2108	ECJ1VB1H102K	1000P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C2111	ECJ1VB1C104K	0.1 16V	[M]
C2112	ECJ1VB1H152K	1500P 50V	[M]
C2114	ECJ1VB1H103K	0.01 50V	[M]
C2116	ECJ1VB1H681K	680P 50V	[M]
C2117	ECJ1VC1H101K	100P 50V	[M]
C2118	ECJ1VB1C104K	0.1 16V	[M]
C2119	ECJ1VB1H102K	1000P 50V	[M]
C2120	ECJ1VB1C105K	1 16V	[M]
C2121	ECJ1VB1C104K	0.1 16V	[M]
C2126	ECJ1VB1C104K	0.1 16V	[M]
C2131	ECUV1C224KBV	0.22 16V	[M]
C2136	ECUV1C224KBV	0.22 16V	[M]
C2141	ECJ1VB1C105K	1 16V	[M]
C2142	ECJ1VB1C105K	1 16V	[M]
C2151	ECA1CM100B	10 16V	[M]
C2166	ECJ1VB1H102K	1000P 50V	[M]
C2181	ECJ1VB1H822K	8200P 50V	[M]
C2182	ECJ1VB1H822K	8200P 50V	[M]
C2183	ECJ1VB1C105K	1 16V	[M]
C2184	ECJ1VB1C333K	0.033 16V	[M]
C2191	ERJ3GEY0R00V	0 1/16W	[M]
C2192	ERJ3GEY0R00V	0 1/16W	[M]
C2193	ECJ1VB1C683K	0.068 16V	[M]
C2194	ECEA1CKA100B	10 16V	[M]
C2201	ECJ1VB1C105K	1 16V	[M]
C2202	ECJ1VB1C104K	0.1 16V	[M]
C2203	ECJ1VB1H102K	1000P 50V	[M]
C2206	ECJ1VB1H332K	3300P 50V	[M]
C2207	ECJ1VB1C104K	0.1 16V	[M]
C2208	ECJ1VB1H102K	1000P 50V	[M]
C2211	ECJ1VB1C104K	0.1 16V	[M]
C2212	ECJ1VB1H152K	1500P 50V	[M]
C2214	ECJ1VB1H103K	0.01 50V	[M]
C2216	ECJ1VB1H681K	680P 50V	[M]
C2217	ECJ1VC1H101K	100P 50V	[M]
C2218	ECJ1VB1C104K	0.1 16V	[M]
C2219	ECJ1VB1H102K	1000P 50V	[M]
C2220	ECJ1VB1C105K	1 16V	[M]
C2221	ECJ1VB1C104K	0.1 16V	[M]
C2226	ECJ1VB1C104K	0.1 16V	[M]
C2231	ECJ1VB1C683K	0.068 16V	[M]
C2236	ECJ1VB1C683K	0.068 16V	[M]
C2241	ECJ1VB1C105K	1 16V	[M]
C2242	ECJ1VB1C105K	1 16V	[M]
C2245	ECA1CM100B	10 16V	[M]
C2251	ECA1CM100B	10 16V	[M]
C2266	ECJ1VB1H102K	1000P 50V	[M]
C2281	ECJ1VB1H822K	8200P 50V	[M]
C2282	ECJ1VB1H822K	8200P 50V	[M]
C2283	ECJ1VB1C105K	1 16V	[M]
C2284	ECJ1VB1C333K	0.033 16V	[M]
C2291	ERJ3GEY0R00V	0 1/16W	[M]
C2292	ERJ3GEY0R00V	0 1/16W	[M]
C2293	ECJ1VB1C683K	0.068 16V	[M]
C2294	ECEA1CKA100B	10 16V	[M]
C2301	ECJ1VC1H100J	10P 50V	[M]
C2302	ECJ1VC1H470J	47P 50V	[M]
C2311	ECJ1VB1A184K	0.18 10V	[M]
C2312	ECJ1VB1A154K	0.15 10V	[M]
C2331	ECJ1VB1C105K	1 16V	[M]
C2332	ERJ3GEY0R00V	0 1/16W	[M]
C2334	ECUV1C224KBV	0.22 16V	[M]
C2401	ECJ1VC1H100J	10P 50V	[M]
C2402	ECJ1VC1H470J	47P 50V	[M]
C2411	ECJ1VB1A184K	0.18 10V	[M]
C2412	ECJ1VB1A154K	0.15 10V	[M]
C2501	ECEA1HKN2R2B	2.2 50V	[M]
C2511	ECJ1VB1H223K	0.022 50V	[M]
C2512	ECJ1VB1A474K	0.47 10V	[M]
C2513	ECJ1VB1C104K	0.1 16V	[M]
C2520	ECJ1VB1H103K	0.01 50V	[M]
C2521	ECJ1VB1H103K	0.01 50V	[M]
C2522	ECJ1VB1C105K	1 16V	[M]
C2523	ECJ1VB1C105K	1 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C2525	ECJ1VB1C105K	1 16V	[M]
C2526	ECJ1VB1H221K	220P 50V	[M]
C2527	ECJ1VB1C105K	1 16V	[M]
C2551	ECA1CM100B	10 16V	[M]
C2552	ECJ1VC1H101K	100P 50V	[M]
C2553	ECJ1VB1H103K	0.01 50V	[M]
C2554	ECJ1VB1C105K	1 16V	[M]
C2555	ECJ1VC1H101K	100P 50V	[M]
C2556	ECJ1VB1H103K	0.01 50V	[M]
C2557	ECJ1VB1H103K	0.01 50V	[M]
C2558	ECJ1VB1A154K	0.15 10V	[M]
C2559	ECJ1VC1H470J	47P 50V	[M]
C2560	ECJ1VB1C105K	1 16V	[M]
C2561	ECJ1VB1C105K	1 16V	[M]
C2581	ECA1AM330B	33 10V	[M]
C2582	ECA1CM101B	100 16V	[M]
C2583	ECUV1C224KBV	0.22 16V	[M]
C2584	ECJ1VB1H221K	220P 50V	[M]
C2585	ECJ1VB1H221K	220P 50V	[M]
C2588	ECJ1VB1C104K	0.1 16V	[M]
C2601	ECJ1VB1H103K	0.01 50V	[M]
C2602	ECEA1CKA100B	10 16V	[M]
C2603	ECJ1VB1H103K	0.01 50V	[M]
C2604	ECJ1VB1H102K	1000P 50V	[M]
C2606	ECJ1VB1H103K	0.01 50V	[M]
C2607	ECJ1VB1E473K	0.047 25V	[M]
C2608	ECJ1VC1H080D	8P 50V	[M]
C2609	ECJ1VB1H102K	1000P 50V	[M]
C2610	ECJ1VB1H103K	0.01 50V	[M]
C2611	ECEA1HKA4R7B	4.7 50V	[M]
C2612	ECJ1VB1H103K	0.01 50V	[M]
C2613	ECJ1VB1H102K	1000P 50V	[M]
C2614	ECEA1HKA3R3B	3.3 50V	[M]
C2615	ECEA1HKA4R7B	4.7 50V	[M]
C2616	ECJ1VB1C333K	0.033 16V	[M]
C2617	ECJ1VB1H103K	0.01 50V	[M]
C2618	ECJ1VB1H103K	0.01 50V	[M]
C2619	F0A2A681A010	680P 100V	[M]
C2620	ECEA1CKA100B	10 16V	[M]
C2621	ECEA1HKAR47B	0.47 50V	[M]
C2622	ECEA1HKA010B	1 50V	[M]
C2623	ECEA1HKA010B	1 50V	[M]
C2624	ECJ1VC1H101K	100P 50V	[M]
C2625	ECEA1CKA220B	22 16V	[M]
C2626	ECJ2VF1C105Z	1 16V	[M]
C2627	ECEA1CKA220B	22 16V	[M]
C2629	ECA0JM101B	100 6.3V	[M]
C2630	ECA0JM101B	100 6.3V	[M]
C2631	ECJ1VC1H151J	150P 50V	[M]
C2632	ECJ1VB1H102K	1000P 50V	[M]
C2633	ECJ1VC1H120J	12P 50V	[M]
C2634	ECJ1VC1H120J	12P 50V	[M]
C2636	ECJ1VB1H102K	1000P 50V	[M]
C2637	ECJ1VB1H332K	3300P 50V	[M]
C2638	ECJ1VB1H103K	0.01 50V	[M]
C2639	ECEA1HKA4R7B	4.7 50V	[M]
C2641	ECEA1HKA010B	1 50V	[M]
C2642	ECEA1HKA010B	1 50V	[M]
C2643	ECJ1VB1H682K	6800P 50V	[M]
C2644	ECJ1VB1H682K	6800P 50V	[M]
C2647	ECJ1VB1H102K	1000P 50V	[M]
C2648	ECJ1VB1H103K	0.01 50V	[M]
C2649	ECJ1VF1C104Z	0.1 16V	[M]
C2701	ECJ1VB1H103K	0.01 50V	[M]
C2705	ECA1CM100B	10 16V	[M]
C2706	ECJ1VB1H103K	0.01 50V	[M]
C2707	ECEA1AKN100B	10 10V	[M]
C2708	ECA1CM101B	100 16V	[M]
C2751	ECJ1VB1C104K	0.1 16V	[M]
C2753	ECJ1VB1C104K	0.1 16V	[M]
C2811	ECJ1VC1H101K	100P 50V	[M]
C2812	ECJ1VC1H101K	100P 50V	[M]
C2813	ECJ1VC1H101K	100P 50V	[M]
C2814	ECJ1VC1H101K	100P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C2815	ECJ1VC1H101K	100P 50V	[M]
C2816	ECJ1VC1H101K	100P 50V	[M]
C2817	ECJ1VC1H101K	100P 50V	[M]
C2818	ECJ1VC1H101K	100P 50V	[M]
C2819	ECJ1VC1H101K	100P 50V	[M]
C2820	ECJ1VC1H101K	100P 50V	[M]
C2821	ECJ1VC1H101K	100P 50V	[M]
C2831	ECJ1VB1C223K	0.022 16V	[M]
C2832	ECJ1VB1H331K	330P 50V	[M]
C2833	ECJ1VB1H331K	330P 50V	[M]
C2840	ECJ1VC1H180J	18P 50V	[M]
C2841	ECJ1VC1H180J	18P 50V	[M]
C2851	ECJ1VB1C104K	0.1 16V	[M]
C2852	ECA1CM101B	100 16V	[M]
C2853	ECJ1VB1C104K	0.1 16V	[M]
C2854	ECA1CM101B	100 16V	[M]
C2856	ECJ1VB1C105K	10 16V	[M]
C2857	ECEA1HKA2R2B	2.2 50V	[M]
C2901	ECJ1VB1C104K	0.1 16V	[M]
C2902	ECA1CM100B	10 16V	[M]
C2903	ECJ1VB1H103K	0.01 50V	[M]
C2904	ECA1CM101B	100 16V	[M]
C2905	ECA1CM101B	100 16V	[M]
C2906	ECJ1VB1H102K	1000P 50V	[M]
C2907	ECJ1VB1H471K	470P 50V	[M]
C2936	ECJ1VF1C474Z	0.47 16V	[M]
C2951	ECJ1VB1H103K	0.01 50V	[M]
C2952	ECJ1VB1H103K	0.01 50V	[M]
C2976	ECA1CM100B	10 16V	[M]
C2977	ECA1CM101B	100 16V	[M]
C2977	ERDS1FVJ270T	27P 100V	[M]
C2998	ECJ1VB1C104K	0.1 16V	[M]
C2999	ECJ1VB1C104K	0.1 16V	[M]
C5015	ECJ1VB1H103K	0.01 50V	[M]
C5018	ECA2AM100B	10 100V	[M]
C5019	ECA2AM100B	10 100V	[M]
C5077	ECJ1VC1H390K	39P 50V	[M]
C5240	ECJ1VB1H222K	2200P 50V	[M]
C5241	ECJ1VC1H390K	39P 50V	[M]
C5242	ECJ1VB1H222K	2200P 50V	[M]
C5243	ECJ1VC1H390K	39P 50V	[M]
C5244	ECJ1VB1H104K	0.1 50V	[M]
C5245	ECJ1VB1H104K	0.1 50V	[M]
C5249	ECJ1VB1H104K	0.1 50V	[M]
C5250	ECJ1VB1H104K	0.1 50V	[M]
C5252	ECJ1VB1C105K	1 16V	[M]
C5440	ECJ1VB1H222K	2200P 50V	[M]
C5441	ECJ1VC1H390K	39P 50V	[M]
C5442	ECJ1VB1H222K	2200P 50V	[M]
C5443	ECJ1VC1H390K	39P 50V	[M]
C5444	ECJ1VB1H104K	0.1 50V	[M]
C5445	ECJ1VB1H104K	0.1 50V	[M]
C5449	ECJ1VB1H104K	0.1 50V	[M]
C5450	ECJ1VB1H104K	0.1 50V	[M]
C5451	ECJ1VB1C105K	1 16V	[M]
C5658	ECJ1VB1H222K	2200P 50V	[M]
C5660	ECJ1VB1H104K	0.1 50V	[M]
C5662	ECJ1VB1H104K	0.1 50V	[M]
C5758	ECJ1VB1H222K	2200P 50V	[M]
C5760	ECJ1VB1H104K	0.1 50V	[M]
C5762	ECJ1VB1H104K	0.1 50V	[M]
C5777	ECJ1VC1H390K	39P 50V	[M]
C5801	ECJ1VB1H103K	0.01 50V	[M]
C5802	ECEA0JKA221B	220 6.3V	[M]
C5803	ECJ1VB1H102K	1000P 50V	[M]
C5804	ECJ1VB1H103K	0.01 50V	[M]
C5805	ECA1CM101B	100 16V	[M]
C5806	ECJ1VB1H103K	0.01 50V	[M]
C5807	ECEA1CKA100B	10 16V	[M]
C5808	ECEA1CKA100B	10 16V	[M]
C5809	ECJ1VB1H103K	0.01 50V	[M]
C5810	ECA1EM101B	100 25V	[M]
C5811	ECJ1VB1H103K	0.01 50V	[M]
C5812	ECA1HM330B	33 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C5813	ECEA1EKA100B	10 25V	[M]
C5820	ECA1HM222B	2200 50V	[M]
C5838	ECEA1HKA2R2B	2.2 50V	[M]
C5840	ECA1HM222B	2200 50V	[M]
C5864	ECJ1VB1H103K	0.01 50V	[M]
C5950	ECA1CM222B	2200 16V	[M]
C5951	F1B1H103A153	0.01 50V	[M]
C5952	ECA1AM470B	47 10V	[M]
C5953	F1B1H103A153	0.01 50V	[M]
C5954	F1B1H103A153	0.01 50V	[M]
C5955	ECA1HM220B	22 50V	[M]
C5956	ECA1HM470B	47 50V	[M]
C5957	ECA1HM100B	10 50V	[M]
C5958	F1B1H103A153	0.01 50V	[M]
C5959	F1B1H103A153	0.01 50V	[M]
C5960	ECQE2104KF3	0.1 250V	[M]
C5961	ECA1AM471B	470 10V	[M]
C5962	ECA1AM471B	470 10V	[M]
C5963	ECEA1VKA4R7B	4.7 35V	[M]
C6481	ECEA0JKA470B	47 6.3V	[M]
C6491	F1D1H101A012	100P 50V	[M]
C6492	F1D1H101A012	100P 50V	[M]
C6551	F1D1E103A001	0.01 25V	[M]
C6552	F1D1E103A001	0.01 25V	[M]
C6553	F1D1E103A001	0.01 25V	[M]
C6601	F1D1H101A012	100P 50V	[M]
C6602	F1D1H102A012	1000P 50V	[M]
C6603	F1D1H101A012	100P 50V	[M]
C6604	F1D1H101A012	100P 50V	[M]
C6612	F1D1H330A006	33P 50V	[M]
C6621	F1D1H101A012	100P 50V	[M]
C6623	ECEA0JKA470B	47 6.3V	[M]
C6631	ECEA1VKA220B	22 35V	[M]
C6632	ECEA1VKA220B	22 35V	[M]
C6635	ECEA1HKA3R3B	3.3 50V	[M]
C6636	F1D1H101A012	100P 50V	[M]
C7102	ECJ1VB1A474K	0.47 10V	[M]
C7105	ECJ1VB1C104K	0.1 16V	[M]
C7106	ECJ1VB1C104K	0.1 16V	[M]
C7107	ECJ1VB1H223K	0.022 50V	[M]
C7110	ECJ1VB1H471K	470P 50V	[M]
C7142	ECJ1VB1H223K	0.022 50V	[M]
C7147	ECJ1VB1H391K	390P 50V	[M]
C7149	ECJ1VB1H392K	3900P 50V	[M]
C7155	ECJ1VB1C104K	0.1 16V	[M]
C7161	ECJ1VB1C104K	0.1 16V	[M]
C7166	ECJ1VB1H103K	0.01 50V	[M]
C7203	ECEA0JKA221I	220 6.3V	[M]
C7204	ECJ1VB1C104K	0.1 16V	[M]
C7216	ECJ1VB1H681K	680P 50V	[M]
C7217	ECJ1VB1C104K	0.1 16V	[M]
C7218	ECJ1VB1C823K	0.082 16V	[M]
C7223	ECEA0JKA101I	100 6.3V	[M]
C7224	ECJ1VB1C104K	0.1 16V	[M]
C7225	ECJ1VB1H102K	1000P 50V	[M]
C7226	ECJ1VB1H102K	1000P 50V	[M]
C7230	ECJ1VB1C104K	0.1 16V	[M]
C7231	ECEA0JKA221I	220 6.3V	[M]
C7232	ECEA0JKA221I	220 6.3V	[M]
C7233	ECJ1VF1C104Z	0.1 16V	[M]
C7234	ECEA1CKA100I	10 16V	[M]
C7235	ECEA1CKA100I	10 16V	[M]
C7241	ECJ1VB1H102K	1000P 50V	[M]
C7243	ECJ1VF1C104Z	0.1 16V	[M]
C7244	ECJ1VB1C153K	0.015 16V	[M]
C7253	ECJ1VB1H471K	470P 50V	[M]
C7263	ECJ1VB1C104K	0.1 16V	[M]
C7264	ECJ1VB1C104K	0.1 16V	[M]
C7315	ECJ1VB1A224K	0.22 10V	[M]
C7334	ECEA1AKA221I	220 10V	[M]
C7335	ECJ1VF1C104Z	0.1 16V	[M]
C7338	ECJ1VB1A224K	0.22 10V	[M]
C7339	ECJ1VB1H103K	0.01 50V	[M]
C7352	ECJ1VB1H103K	0.01 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C7601	ECEA0JKA330I	33 6.3V	[M]
C7613	ECJ1VB1C104K	0.1 16V	[M]
C7614	ECEA0JKA101I	100 6.3V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C7625	ECEA0JKA221I	220 6.3V	[M]
C7626	ECJ1VB1C104K	0.1 16V	[M]
C7670	ECJ1VB1C104K	0.1 16V	[M]

23.5. Packing Materials & Accessories Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	RPGX1500	PACKING CASE	[M]
P2	RPNX0323	POLYFOAM (MAIN SET)	[M]
P3	RPF00007	MIRAMAT BAG	[M]
		ACCESSORIES	

Ref. No.	Part No.	Part Name & Description	Remarks
A1	N2QAHB000056	REMOTE CONTROL	[M]
A1-1	RKK-HTR0283	R/C BATTERY COVER	[M]
A2	K2CB2CB00018	AC CORD	[M] △
A3	RQT7834-P	O/I BOOK (En)	[M]
A3	RQT7835-M	O/I BOOK (Sp)	[M]
A4	RSA0006-L	FM ANTENNA	[M]
A5	N1DAAA00001	AM LOOP ANTENNA	[M]

23.6. Packaging

