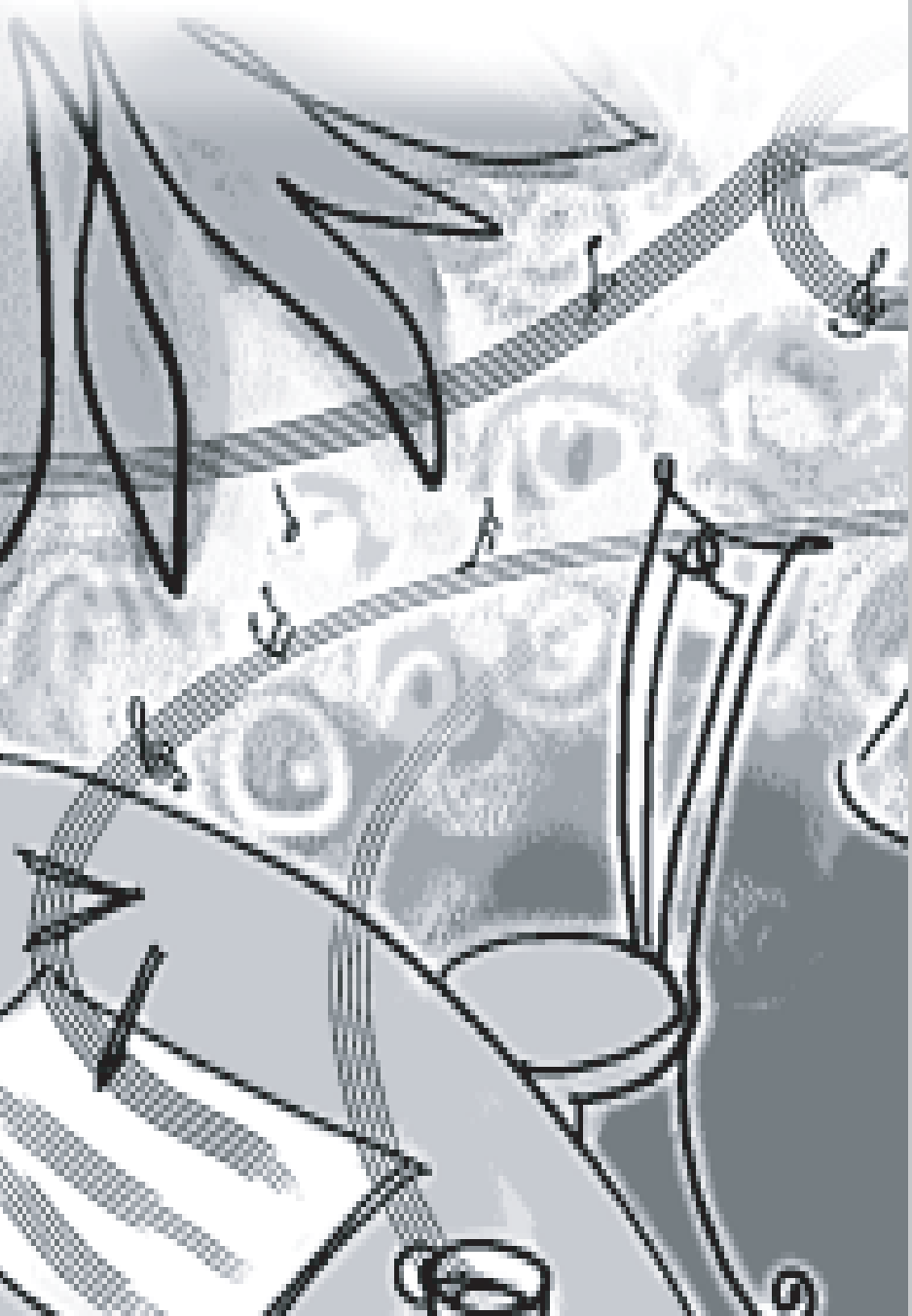
Service Manual

Panasonic

Modelo: **SC-TM900DVD**

SC-TM900DVD	SA-TM900DVD	SA-TM900 SB-PS92 SB-PC92
	SB-TM900DVD	SB-TM900



Información para la región DVD
Este DVD esta diseñado y manufacturado para responder a una región de reproducción de DVD. Si la región del disco DVD no corresponde a la región del sistema reproductor de discos DVD, este no podrá reproducirlo.
El número de región para este Sistema Estéreo reproductor de DVD es región número: 4.

Gracias por la adquisición de este Sistema Estéreo. Antes de operarlo, lea cuidadosamente este instructivo y consérvelo a la mano para consultas posteriores.

POTENCIA DE SALIDA (AMPLIFICADOR)		
SC-TM900DVD	Frontal (Alto)	95 W RCM por canal (4Ω) 1kHz, 10% DAT
	(Bajo)	95 W RCM por canal (4Ω) 100Hz, 10% DAT
	Surround	65 W RCM por canal (4Ω)1kHz, 10% DAT
	Central	80 W RCM por canal (4Ω) 1kHz, 10% DAT
SC-TM1000DVD	Frontal (Alto)	95 W RCM por canal (4Ω) 1kHz, 10% DAT
	(Bajo)	95 W RCM por canal (4Ω) 100Hz, 10% DAT
	Surround	75 W RCM por canal (4Ω) 1kHz, 10% DAT
	Central	100 W RCM por canal (4Ω)1kHz, 10% DAT
	Subwoofer	50 W RCM por canal (8Ω) 100Hz, 10% DAT

UNIDAD PRINCIPAL	SA-TM900DVD	SA-TM1000DVD
POTENCIA DE SALIDA:	6000 W (P.M.P.O.)	8000 W (P.M.P.O.)
CONSUMO DE POTENCIA:	390 W	450 W
ALIMENTACION:	127 V ca ±10% 60 Hz	
SENSIBILIDAD AUX:	250 mV	
RANGO DE SINTONIA AM:	520 - 1710 kHz (paso de 10 kHz)	
RANGO DE SINTONIA FM:	87.9 - 107.9 MHz (paso de 0,2 MHz) 87.5 - 108.0 MHz (paso de 0,1 MHz)	
DIMENSIONES (b x h x l)	250 mm x 330 mm x 348 mm	
PESO:	9.2 kg aprox.	

ESPECIFICACIONES POR CADA BAFLE				
	FRONTAL	SURROUND	SUBWOOFER	CENTRAL
	SB-TM900/1000DVD	SB-PS92	SB-WTM1000 SC-TM1000DVD	SB-PC92
IMPEDANCIA DE ENTRADA	Alto 4 Ω, Bajo 4 Ω	4 Ω	8 Ω	4 Ω
Bocina Super Woofer Bocina Woofer Bocina Tweeter Super Tweeter	20 cm 12 cm 6 cm	- - - - - 8 cm 6 cm	- - - - - 16 cm x 2 - - - - -	- - - - - 8 cm x 2 - - - - - Piezo type
Dimensiones (b x h x l)	250 mm x 429 mm x 318.5 mm	140 mm x 330 mm x 155.8 mm	200 mm x 429 mm x 428 mm	409 mm x 104 mm x 155.5 mm
Peso	6.9 kg aprox.	1.3 kg aprox.	6.8 kg aprox.	1.5 kg aprox.

(El peso y las dimensiones son de un solo bafle)

CONTENTS

1 Before Use (Caution)

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

Use a minus(-) screwdriver to set the voltage selector (on the rear panel) to the voltage setting for the area in which the unit will be used. (If the power supply in your area is 117V or 120V, set to the “127V” position.)

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

2 Before Repair and Adjustment

Disconnect AC power, discharge Power Supply Capacitors C5815, C5818, C9513, C9533, C9534, C9816 and C9817 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 100/110V at 50/60 Hz & AC 240V at 50Hz in NO SIGNAL (vol. min, at CD mode) should be ~500mA .

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 Safety Precautions

4.1. General Guidelines

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

4.1.1. Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1MΩ and 5.2MΩ.

   When the exposed metal does not have a return path to the chassis, the reading must be ∞ .

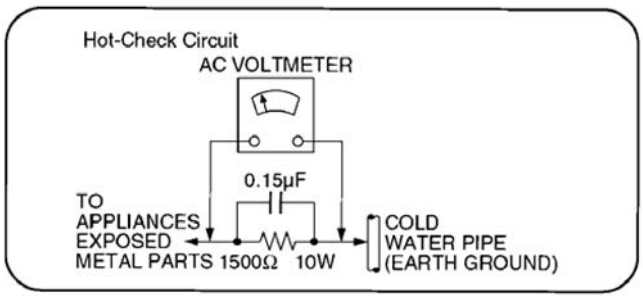


Figure 1

4.1.2. Leakage Current Hot Check (See Figure 1)

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

5 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 imporant for safety.
These parts are marked by ⚠ 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.

6 Handling the Lead-free Solder

6.1. 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.

7 Precaution of Laser Diode

Caution :

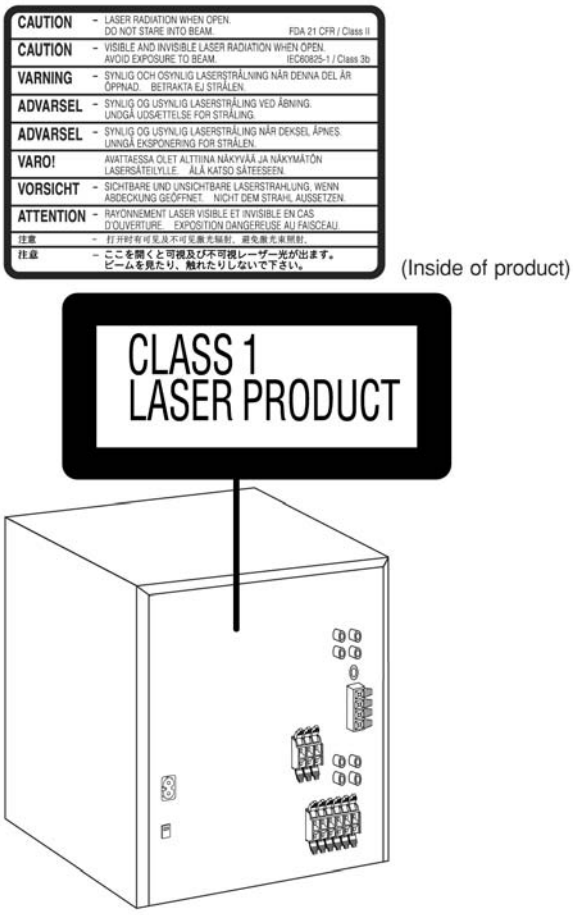
This product utilizes a laser diode with the unit turned "ON", invisible laser radiation is emitted from the pick up lens.
Wavelength : 785 nm(CD)/662 nm(DVD)
Maximum output radiation power from pick up : 100 μW/VDE

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

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

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 Labels



8 Cautions to be taken when handling Optical Pickup

The laser diode used inside optical pickup could be destroyed due to static electricity as a potential difference is caused by electrostatic load discharged from clothes or human body. Handling the parts carefully to avoid electrostatic destruction during repair.

8.1. Handling Optical Pickup

1. Do not impact on optical pickup as the unit structurally uses an extremely precise technology.
2. Short-circuit the flexible cable of optical pickup remove from the circuit board using a short-circuit pin or clip in order to prevent laser diode from electrostatic destruction (Refer to Fig. 8.1 and Fig. 8.2)
3. Do not handle flexible cables forcibly as this may cause snapping. Handle the parts carefully (Refer to Fig. 8.1)
4. A new optical pickup is equipped with an anti-static flexible cable. After replacing and connecting to the flexible board, cut the anti-static flexible cable. (Refer to Fig. 8.1)

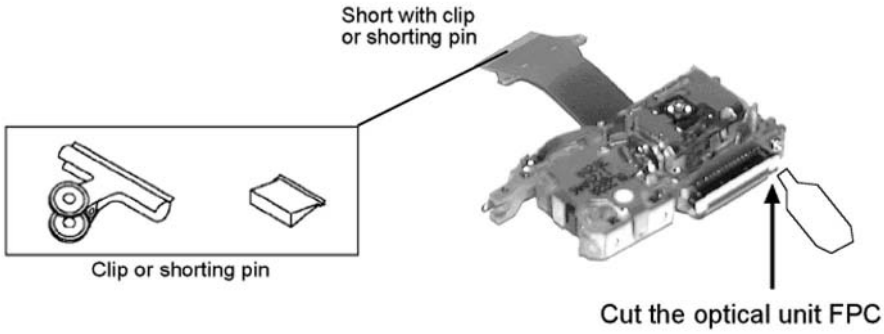


Fig. 8.1

8.2. Replacing Precautions for Optical Pickup Unit

DVD/CD Optical Pickup

The optical pickup by which part supply was carried out attaches the short clip to the flexible board for laser diode electrostatic discharge damage prevention. Please remove the short clip and be sure to check that the short land is open, before connecting. (Please remove solder, when the short land short-circuits.)

8.3. Grounding for Preventing Electrostatic Destruction

1. Human body grounding

   Use the anti-static wrist strap to discharge the static electricity accumulated in your body. (Refer to Fig. 8.2)
2. Work place grounding

   Place a conductive material (conductive sheet) or iron board where optical pickup is placed. (Refer to Fig. 8.2)

Note :

Keep your clothes away from optical pickup as wrist strap does not release the static electricity charged in clothes.

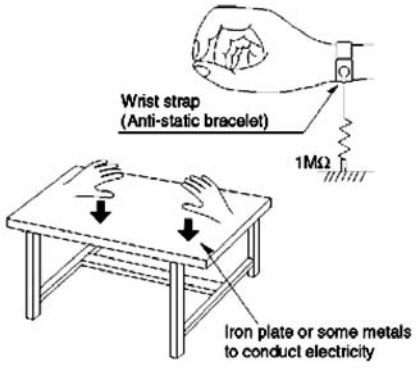
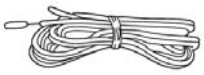


Fig. 8.2

9 Accessories

Remote control N2QAJB000143

AC cord SJA168-1A



FM antenna RSA0006-J

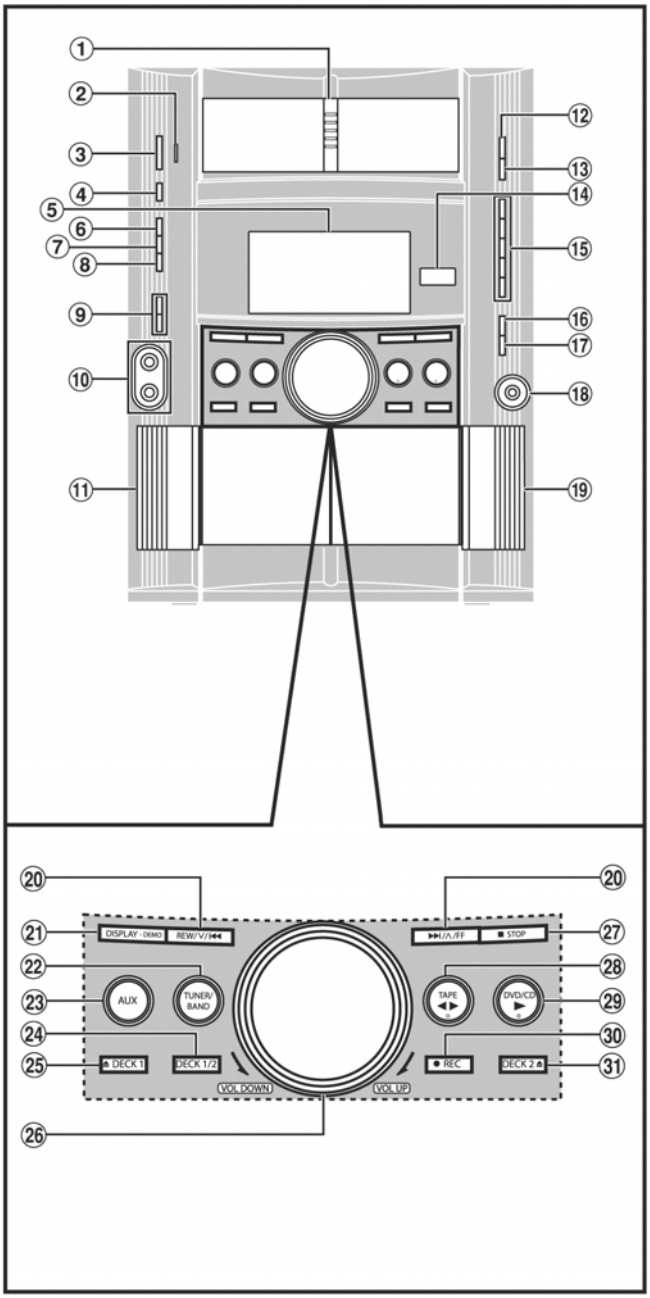
AM antenna N1DAAAA00001

Video cable K2KA2BA00001

10 Operation Procedures

Control reference guide

Main unit

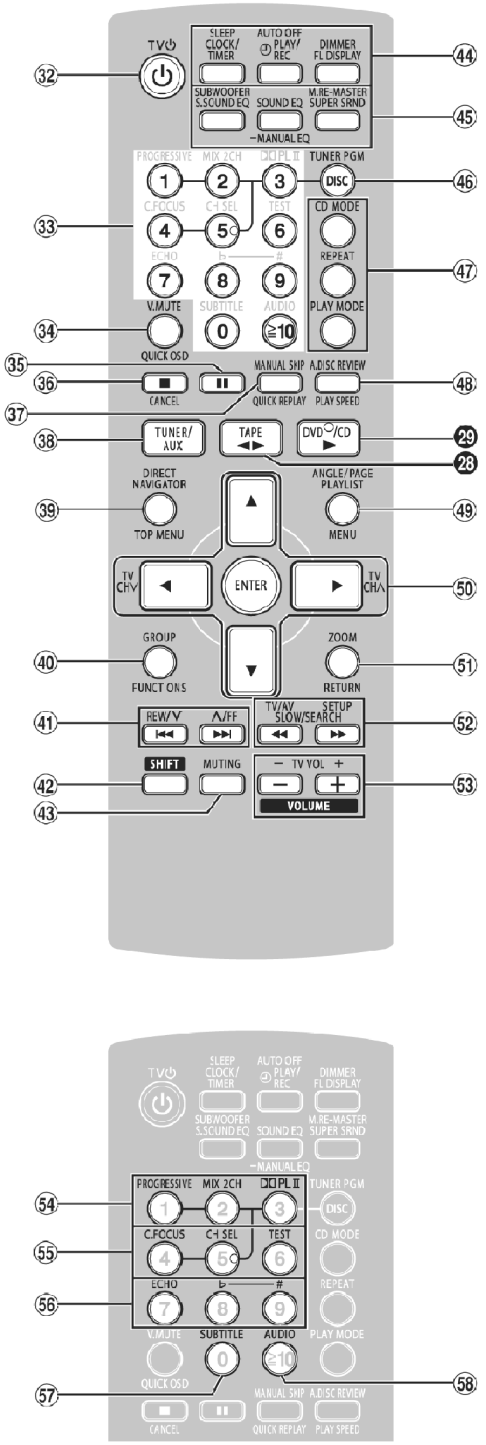


① Disc drawer
② AC supply indicator [AC IN]
This indicator lights when the unit is connected to the AC mains supply.
③ Standby/on switch [⏻/I]
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.
④ Disc check button [DISC CHECK]
⑤ Display
⑥ Multi Re-master button [MULTI RE-MASTER]
⑦ Super surround button [SUPER SURROUND]
⑧ Sound EQ button [SOUND EQ]
⑨ Microphone volume level buttons
⑩ [MIC LEVEL DOWN, UP]
⑪ Microphone jacks [MIC 1, 2]
⑫ Deck 1 cassette holder
⑬ Disc tray open/close button [⏏, OPEN/CLOSE]
⑭ Disc change button [⏏, DISC CHANGE]
⑮ Remote control signal sensor
⑯ DVD/CD direct play buttons [1–5]
⑰ Super sound EQ button [SUPER SOUND EQ]
⑱ Subwoofer button [SUBWOOFER]
⑲ Headphone jack [PHONES]
Deck 2 cassette holder

Center console

⑳ Disc skip/search/slow-motion play, tape fast-forward/ rewind, tune, time adjust buttons [REW/∨/I◄◄, ►►I/∧/FF]
㉑ Display mode, demonstration button [DISPLAY –DEMO]
㉒ Tuner/band select button [TUNER/BAND]
㉓ AUX button [AUX]
㉔ Deck 1/2 selection button [DECK 1/2]
㉕ Deck 1 open button [⏏ DECK 1]
㉖ Volume control [VOL DOWN, VOL UP]
㉗ Stop button [■ STOP]
㉘ Tape play/direction button [◄ ►, TAPE]
㉙ DVD/CD play button [►, DVD/CD]
㉚ Record button [● REC]
㉛ Deck 2 open button [DECK 2 ⏏]

Remote control



Buttons such as ㉘ function in exactly the same way as the buttons on the main unit.

㉜ **Standby/on, TV power on/off button [⏻, TV⏻]**

㉝ **Numbered buttons [0 – 9, ≧10]**

㉞ **Quick OSD, Vocal mute button [QUICK OSD, V.MUTE]**

㉟ **Pause button [II]**

㊱ **Stop, Cancel button [■, CANCEL]**

㊲ **Manual skip, Quick replay button [MANUAL SKIP, QUICK REPLAY]**

㊳ **Tuner/aux button [TUNER/AUX]**

㊴ **Top menu, Direct navigator button [TOP MENU, DIRECT NAVIGATOR]**

㊵ **Functions, Group button [FUNCTIONS, GROUP]**

㊶ **Disc skip, tape fast-forward/rewind, preset channel select, time adjust buttons [I◄◄, REW/∨, ►►I, ∧/FF]**

㊷ **Shift button [SHIFT]**
To use functions labeled in orange:
While pressing [SHIFT], press the corresponding button.

㊸ **Muting button [MUTING]**

㊹ **Clock/timer, Sleep timer button [CLOCK/TIMER, SLEEP]**
Play/record timer, Auto off button [⏲PLAY/REC, AUTO OFF]
FL display, Dimmer button [FL DISPLAY, DIMMER]

㊺ **Super Sound EQ, Subwoofer button [S.SOUND EQ, SUBWOOFER]**
Sound EQ, Manual EQ button [SOUND EQ, –MANUAL EQ]
Super surround, Multi Re-master button [SUPER SRND, M.RE-MASTER]

㊻ **Disc select, Tuner program butto [DISC, TUNER PGM]**

㊼ **CD mode button [CD MODE]**
Repeat button [REPEAT]
Play mode button [PLAY MODE]

㊽ **Advanced disc review, Play speed button [A.DISC REVIEW, PLAY SPEED]**

㊾ **Menu, Playlist, Angle/Page button [MENU, PLAYLIST, ANGLE/PAGE]**

㊿ **Cursor buttons [▲,▼,◄, ►], Enter button [ENTER]**
These buttons have the following functions.
[◄, ►] : TV channel select buttons [TV CH∨, TV CH∧]

(51) **Return, Zoom button [RETURN, ZOOM]**

(52) **Slow/search, Tuning buttons [◄◄, ►►, SLOW/SEARCH]**
These buttons have the following functions.
[◄◄] : TV/AV input mode select button [TV/AV]
[►►] : Setup button [SETUP]

(53) **Volume buttons, TV volume buttons [–, +, VOLUME, – TV VOL +]**

(54) **Progressive video button [PROGRESSIVE]**
2 channel down-mixing button [MIX 2CH]
Dolby Pro Logic II button [□□ PLII]

(55) **Center focus button [C.FOCUS]**
Channel select button [CH SEL]
Test signal button [TEST]

(56) **Echo button [ECHO]**
Key control buttons [♭, #]

(57) **Subtitle button [SUBTITLE]**

(58) **Audio button [AUDIO]**

11 Disc information

Discs that can be played

Disc	Logo	Indication in these operating instructions	Remarks
DVD-RAM	DVD RAM RAM4.7	RAM	Recorded with devices using Version 1.1 of the Video Recording Format (a unified video recording standard) such as DVD video recorders, DVD video cameras, personal computers, etc.
		JPEG	Recorded using the DCF (Design rule for Camera File system) standard. • To play JPEG files, select "Play as Data Disc" in Other Menu.
DVD-Audio	DVD AUDIO	DVD-A	—
		DVD-V	Some DVD-Audio discs contain DVD-Video content. To play DVD-Video content, select "Play as DVD-Video" in Other Menu.
DVD-Video	DVD VIDEO DVD VIDEO	DVD-V	—
DVD-R (DVD-Video) DVD-RW (DVD-Video)	DVD R R4.7 DVD RW		Discs recorded and finalized* on Panasonic DVD video recorders or DVD video cameras.
+R (Video)/ +RW (Video)	—		Discs recorded and finalized* on DVD video recorders or DVD video cameras.
Video CD	COMPACT disc DIGITAL VIDEO	VCD	—
SVCD	COMPACT disc SUPER VIDEO		Conforming to IEC62107.
CD	COMPACT disc DIGITAL AUDIO COMPACT disc DIGITAL AUDIO TEXT	CD	This unit is compatible with HDCD, but does not support the Peak Extend function (a function which expands the dynamic range of high level signals). HDCD-encoded CDs sound better because they are encoded with 20 bits, as compared with 16 bits for all other CDs.
CD-R CD-RW	—	WMA MP3 JPEG CD VCD	• This unit can play CD-R/RW (audio recording disc) recorded with the formats on the left. Close the sessions or finalize* the disc after recording. • **HighMAT discs** WMA, MP3 or JPEG files only. To play without using the HighMAT function, select "Play as Data Disc" in Other Menu. • WMA This unit does not support Multiple Bit Rate (MBR: a file that contains the same content encoded at several different bit rates).

* A process that allows play on compatible equipment.
• It may not be possible to play the above discs in all cases due to the type of disc or condition of the recording.

■ Discs that cannot be played

DVD-ROM, CD-ROM, CDV, CD-G, SACD, Divx Video Discs and Photo CD, DVD-RAM that cannot be removed from their cartridge, 2.6-GB and 5.2-GB DVD-RAM, and "Chaoji VCD" available on the market including CVD, DVCD and SVCD that do not conform to IEC62107.

Playing DVDs and Video CDs
The producer of these discs can control how they are played so you may not always be able to control play as described in these operating instructions (for example if the play time is not displayed or if a Video CD has menus). Read the disc's instructions carefully.

■ Audio format of DVDs

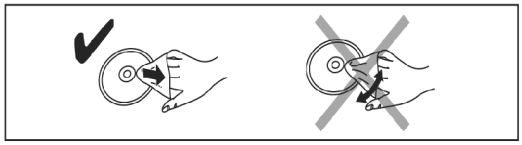
This unit automatically recognizes and decodes discs with these symbols.

DOLBY DIGITAL

DIGITAL dts SURROUND

■ To clean discs

Wipe with a damp cloth and then wipe dry.



■ Disc handling precautions

- Do not attach labels or stickers to discs (This may cause disc warping, rendering it unusable).
- Do not write on the label side with a ball-point pen or other writing instrument.
- Do not use record cleaning sprays, benzine, thinner, static electricity prevention liquids or any other solvent.
- Do not use scratch-proof protectors or covers.
- Do not use the following discs:
  – Discs with exposed adhesive from removed stickers or labels (rented discs, etc).
  – Discs that are badly warped or cracked.
  – Irregularly shaped discs, such as heart shapes.

■ Video systems

– This unit can play PAL and NTSC, but your television must match the system used on the disc.
– PAL discs cannot be correctly viewed on an NTSC television.
– This unit can convert NTSC signals to PAL 60 for viewing on a PAL television.

Tips for making WMA/MP3 and JPEG discs (For CD-R, CD-RW)

- Discs must conform to ISO9660 level 1 or 2 (except for extended formats).
- This unit supports multi-session but if there are a lot of sessions it takes more time for play to start. Keep the number of sessions to a minimum to avoid this.
- When there are more than 8 groups, the eighth group onwards will be displayed on one vertical line in the menu screen.
- There may be differences in the display order on the menu screen and computer screen.
- This unit cannot play files recorded using packet write.

Naming folders and files

Files are treated as contents and folders are treated as groups on this unit.

At the time of recording, prefix folder and file names with 3-digit numbers in the order you want to play them (this may not work at times).

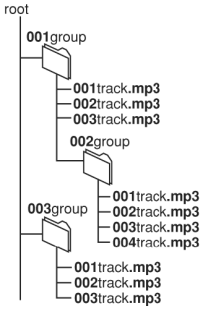
Files must have the extension:

".WMA" or ".wma"

".MP3" or ".mp3"

".JPG", ".jpg", ".JPEG" or ".jpeg"

e.g. MP3



WMA

- You cannot play WMA files that are copy protected.
- This unit does not support Multiple Bit Rate (MBR).

MP3

- This unit is not compatible with ID3 tags.
- Compatible sampling rate: 8, 11.02, 12, 16, 22.05, 24, 32, 44.1 and 48 kHz.

JPEG

- To view JPEG files on this unit:
  - Take them on a digital camera that meets the DCF Standard (Design rule for Camera File system) Version 1.0. Some digital cameras have functions that are not supported by the DCF Standard Version 1.0 like automatic picture rotation which may render a picture unviewable.
  - Do not alter the files in any way or save them under a different name.
- This unit cannot display moving pictures, MOTION JPEG and other such formats, still pictures other than JPEG (e.g.: TIFF) or play pictures with attached audio.

12 About HighMAT

12.1. What's HighMAT?

Consumers worldwide are using PCs to create their own collections of music, photos and even video by burning them onto CDs. But how these collections can be experienced across different devices can be confusing to navigate, time consuming to access for a DVD player, and be incomplete in terms of music information available to the customer.

HighMAT offers a solution to this growing consumer problem. HighMAT dramatically improves the digital media experience on consumer electronic devices by delivering a simple, standardized approach that allows consumers who have created personal collections of digital music, photography and video on their PC to:

>> Create a HighMAT CD or DVD which can be easily played back on consumer electronics devices such as CD and DVD players, and car stereos.

>> Move digital media files (using recordable media such as CD-R and CD-RW) between the PC and various playback devices such as CD and DVD players.

A new standard for creating personal media on consumer electronic devices, HighMAT enable easier and more seamless interoperability between Windows PCs and devices designed for your living room, or the car.

HighMAT Audio
Products which display this logo are able to play back HighMAT audio content only (WMA, MP3)

HighMAT Audio and Image
Products which display this logo are able to play back HighMAT audio content (WMA, MP3) and still pictures (JPEG) only

HighMAT Audio, Image and Video
Products which display this logo are able to play back all three types of HighMAT content: Audio (WMA, MP3), still pictures (JPEG) and video (WMV, MPEG-4※)
※MPEG-4: support is optional

12.2. Why take advantage of HighMAT?

A Problem Defined:Today, when consumers create their own digital audio, video or photo collections on CD-R or other physical formats, there are numerous, inconsistent ways that devices read the data. For the consumer, the playback experience can be confusing:

■ Many consumer electronics devices do not support playlists or advanced playback options such as the ability to access content by date or genre.

■ The user interface for accessing the media and any associated information (including playlists, folders, music metadata and more) may vary between different devices.

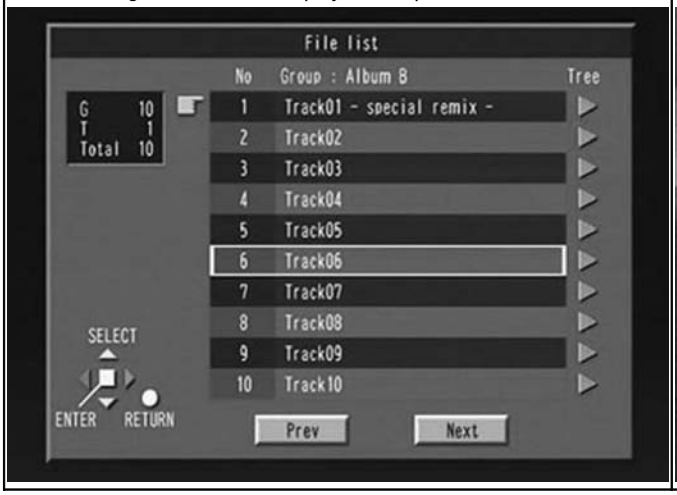
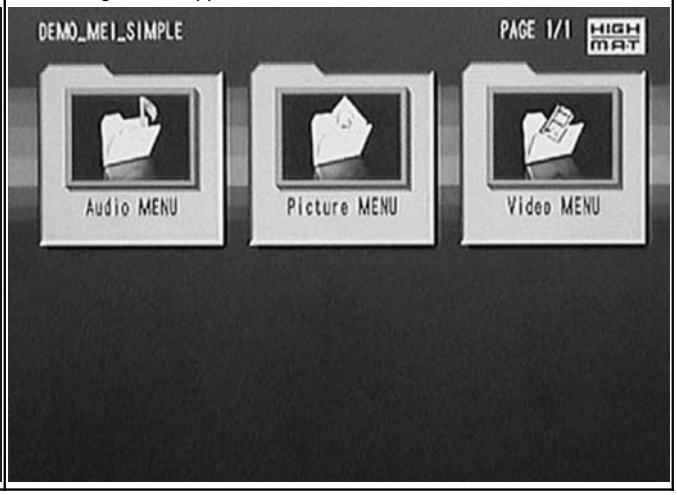
■ Large collections of music, videos or photos may take several minutes for a CD or DVD player to read.

■ Discs may be unplayable because the compressed media format is not supported by the playback device or the disc layout is incompatible.

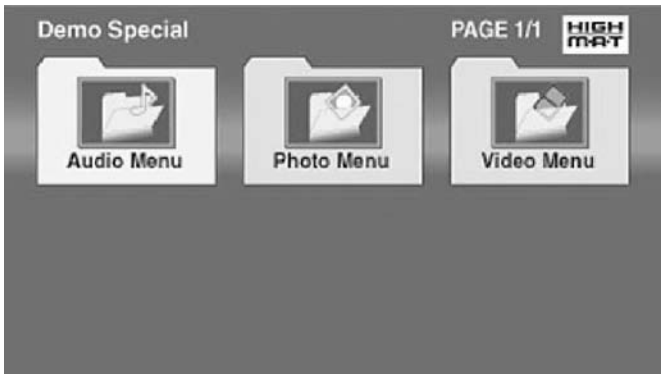
A Solution Created: HighMAT delivers a better digital media access experience by creating a standard approach for PCs to structure digital media on various physical formats and for playback devices to read the data.

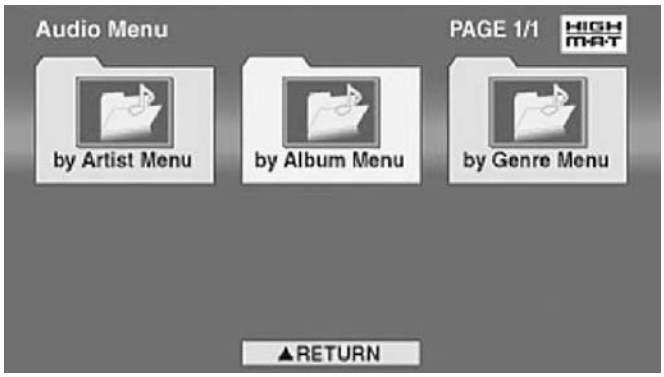
12.3. Benefits of HighMAT?

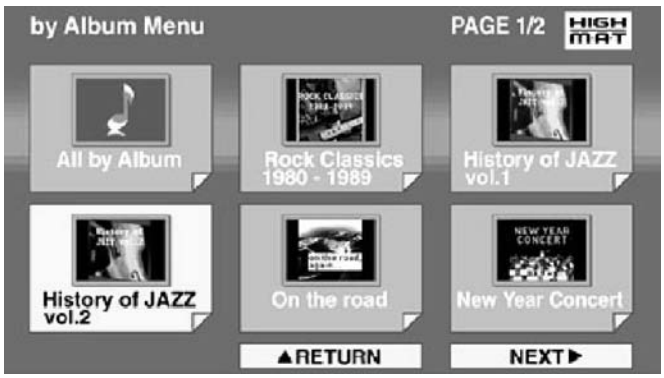
1 **Creating a HighMAT CD makes it easier to navigate different types of media you want to burn onto a CD (Photos, Music).**

Conventional	HighMAT
Even though DVD player is CD-R/RW compatible, the inconsistent ways that various DVD players can read the music or photos files often leads to a confusing and inconsistant playback experince.	HighMAT compatible products play content back with consistent interface. This includes products which are JPEG compatible products without HighMAT support.
	

2 **Eliminates compatibility issues and delivers better more consistent access to more music information like artist, song name, genre and photo information (metadata) as well as provide faster access to large amounts of music and photo files burned on CDs.**

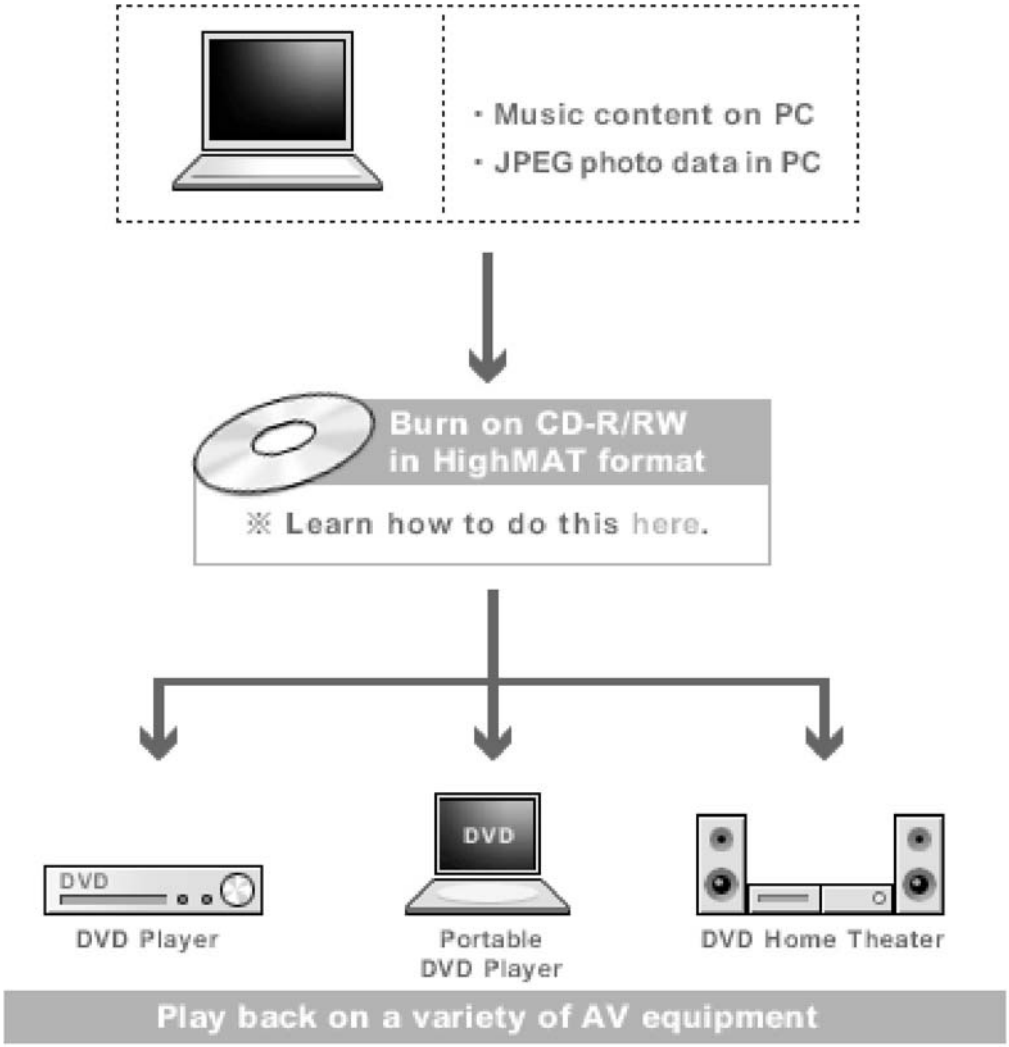






Easy navigation to access disc contents

3 HighMAT CDs can also work on other players.



HighMAT is now available for CD Burning and in Leading DVD PlayersHighMAT is a new technology that is now available in leading software and consumer electronic devices to dramatically improve the digital media experience when you create homemade CDsHighMAT delivers a simple, standardized way for PC software and consumer electronics devices to talk to each other and work better together.

When you create your homemade CDs with software that supports HighMAT CD burning, and then play them back on a DVD player that supports HighMAT, you get better, easier navigation. You get folders you can access with a single click of your DVD player´s remote control. You can view important information about your music like full song names, artist titles, album names and genre. And you can get faster startup on your home entertainment device.

To enjoy the benefits of HighMAT, all you need is software that supports HighMAT for CD burning of music or photos, as well as a home entertainment device like a DVD player that supports HighMAT for playback. Always look for the HighMAT logo on your software or home entertainment device to ensure it supports the HighMAT experience.

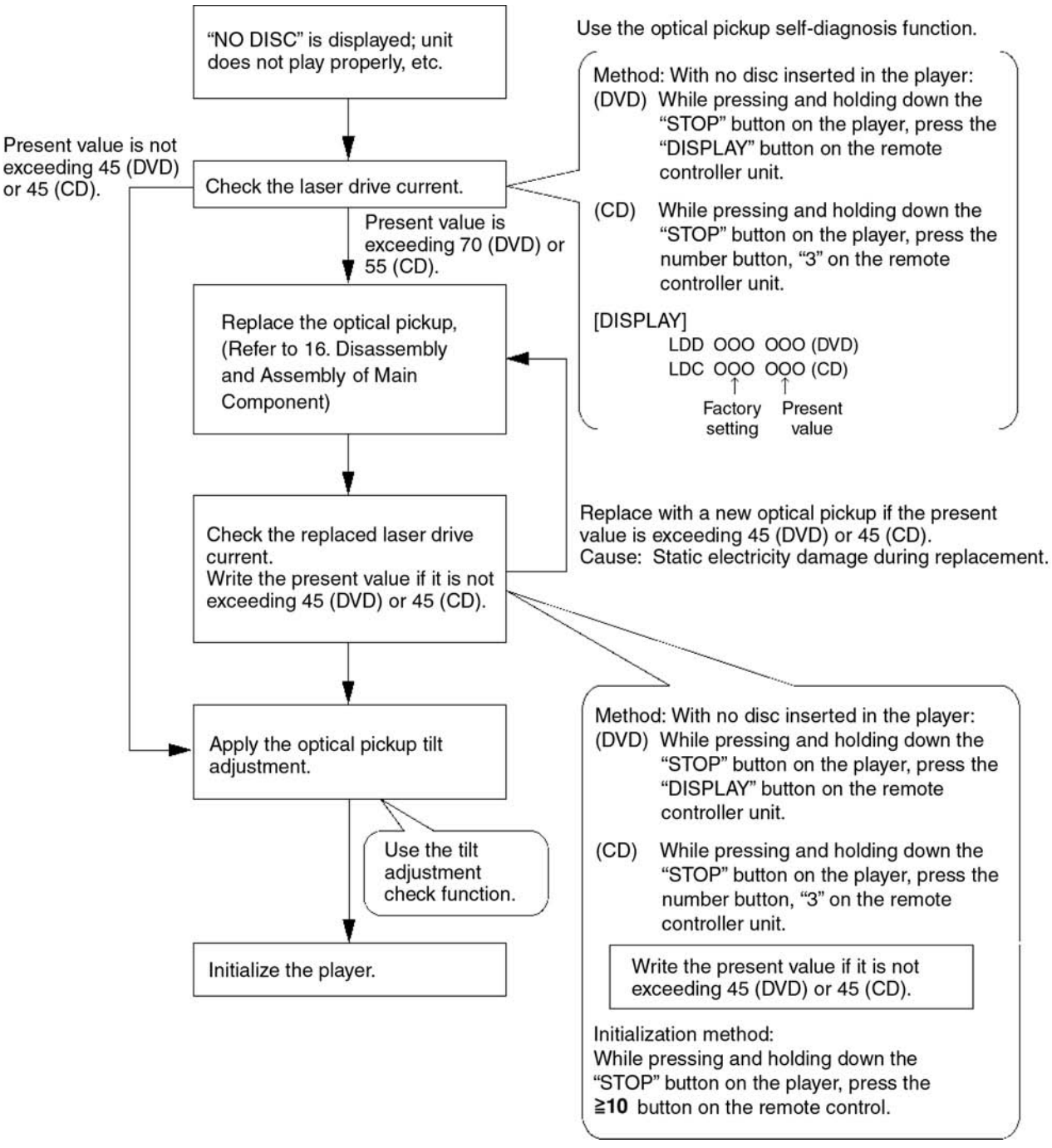
13 Optical Pickup Self-Diagnosis and Replacement Procedure

13.1. Optical Pickup Breakdown diagnosis

This unit is equipped with the optical pickup self-diagnosis function and the tilt adjustment check function. Follow the procedure described below during repair in order to perform self-diagnosis and tilt adjustment effectively. Especially when “NO DISC” is displayed, be sure to apply the self-diagnosis function before replacing with an optical pickup. Replacement of optical pickup generally requires when the present value of laser drive exceeds 45 (DVD) or 45 (CD).

Note:

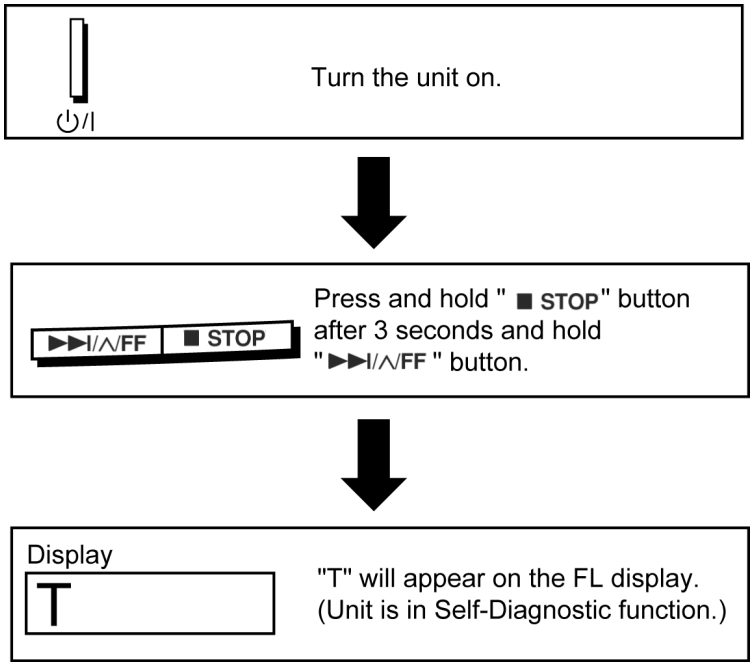
Start diagnosis within three minutes after turning on the power (as diagnosis fails when the unit becomes warm).



14 Self-Diagnosis Function

This unit is equipped with the self-diagnosis function, which displays an error when it occurs, for use during servicing.

14.1. Entering into Self-Diagnostic Mode



14.2. Automatic Displayed Error Codes

14.2.1. Automatic Display Function

For a power unit error, the code is automatically displayed.

F61: Automatically displayed on the LCD of the player.

14.2.2. Re-Display

- **For F61 Display**
  - – When the code, F61 is displayed, the power is automatically turned off.
  - – The code, F61 is displayed for three seconds, and then the current time appears.
  - – To retrieve the code, turn on the power button so that the code F61 appears, however, is switched to time display after three seconds, and the power is automatically turned off.
- **For F76 Display**
  - – The abnormalities is an output or the abnormalities in a power supply of POWER AMP IC.

14.2.3. Description of Error Code

14.2.3.1. F61

- **State, Condition**

  When the power is turned on, the unit is automatically turned off. The power does not turn on.
- **Cause, Troubleshooting**

  Power circuit system failure and/or direct current flown to speaker terminal
  Identify the cause and replace with new parts.

14.3. Memorized Error Codes

14.3.1. Activating Self-Diagnosis Function and Displaying Method

1. Turn on the power.
2. Select DVD/CD function. With no DVD/CD inserted in the player, press and hold down the ■ button for at least two seconds, and press the “0” button on the remote control for at least two seconds in order to display “DVD_F---”.
3. Press the ■ button. If a memorized error is detected, the result of self diagnosis is displayed. (Ex.: T H15)

If several errors are detected, press the ■ button to display each.

14.3.2. Re-Display

- Press the power button to turn off the power, and then turn on the power.
- The details of self diagnosis are stored in the unit memory.
  To retrieve them, follow the procedure described the above, “Activating Self-Diagnosis Function and Displaying Method”.

14.4. Service Mode Table 1

Following modes are available with combinations of the pressed buttons on the player and on the remote controller unit.

Player	Remote Controller Unit	Usage
■ button	0	Error code display (Refer to the Item 14.5. DVD/CD Self-Diagnosis Error Code Description)
	5	Tilt adjustment (Jitter)
	6	Region number and broadcasting system check
	8	Bulit-in program version check (Micro-P)
	DISPLAY	DVD laser drive current check
	3	CD laser drive current check
	PAUSE	Writing of laser drive current value after replacement of optical pickup (Do use this function only when optical pickup is replaced.)
	≧10	Initialization of the player (factory setting is restored.) Used after replacement of micro-computer and its peripherals and printed circuit board.

14.5. DVD/CD Self-Diagnosis Error Code Description

Error Code	State, Conditon	Cause, Troubleshooting
H15	The disc tray cannot be opened: it closes spontaneously.	Disc tray open/close detection switch (S1001) failure. (Check and replace)
H16	The disc tray cannot be closed: it opens spontaneously.	

Error Code	Meaning	Details
U. H. Error		
U11	Focus servo failure	
H01	Tray loading failure	
H02	Spindle servo failure	(Spindle servo, DSC, SP motor, CLV servo failure)
H03	Traverse motor failure	
H04	Tracking servo error	
H05	Seek timeout failure	
DSC system		
F500	DSC failure	DSC stops due to servo failure. (Startup, focus failure, etc.)
F501	DSC not Ready failure	Communication failure between DSC and system computer (No communication because DSC does not move)
F502	DSC Time out failure	See F500.
F503	DSC communication failure	Communication failure (Result failure occurs after communication command is transmitted.)
F505	DSC Attention Error	See F500.
F506	Invalid media	Disc is placed upside down; TOC is unreadable or invalid disc is inserted.
Disc Code		
F103	Ilegal highlight position	Disc standard is possibly illegal when highlight is displayed.
IIC Error		
F4FF	Forced initialization failure (Time out)	
F880	Unsuitable task number	When a message arrives from not existing task
F890	A message is sent during AV task transmission	During transmission of a message to AV task
F891	Unable to transmit a message to AV task	When transmission of a message to AV task starts
F893	DVD Module problem	Check for firmware version
F894	EEPROM failure	
F895	Firmware compatibility problem	Check for firm version for Main & DVD Module P.C.B.
F897	Initialization is not done properly	Follow proper steps for initialization & reset
F8A0	Unsuitable message command	When transmission of a message to AV task starts

14.6. Mode Table 2

Following modes are available with combinations of the pressed buttons on the player and on the remote controller unit.

Item	Operational Condition and Key Function	Details	Display	TO Exit Mode
Jitter display	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button, “5” on the remote controller unit. Press “Dimmer/FL Display” button for next page	Jitter display Measures and displays jitter. Measurement is repeated every second. Read error counter starts at 0 at the mode setting, and increased by one as data read fails at target block. A small defect is allowed to correct by retry. Any possibility is counted as one increment. Repetitive errors after retry increase by two levels or more.	J[*1] xx[*2] yyy[*3] zz[*4] [*1] : Jitter display mode [*2] : Jitter measurement value [*3] : Read error counter [*4] : Focus driving value Values are shown to one decimal place in the decimal digit. Focus driving value is displayed in the hexadecimal digit.	Press the STOP or OPEN button on the player.
Error code display	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button, “0” on the remote controller unit.	Error code display Displays the latest error code stored in EEPROM.	DVD_F--- *nn: Error history *--: Error number	Press the OPEN button.
Measurement of laser current electricity initialization value	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the ❚❚ button on the remote controller unit. Press “Dimmer/FL Display” button for next page	Measurement of laser current electricity initialization value Memorizes each initialization value of DVD and CD in EEPROM.	LDO[*1] xxx[*2] yyyy[*3] [*1] : Laser current electricity measurement mode [*2] : DVD current electricity value [*3] : CD current electricity value Values are shown in the decimal digit. The above example indicates that the current electricity initialization value is 13mA at DVD laser and 32mA at CD laser when laser is turned on.	Automatically exits the mode after five seconds.
Measurement of DVD laser current electricity	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the FUNCTION button on the remote controller unit. Press “Dimmer/FL Display” button for next page	Measurement of DVD laser current electricity Measures DVD laser current electricity and displays the result together with the initialization value stored in EEPROM. After measurement, DVD laser is lit till the power is turned off (or goes off when the primary power is turned off).	LDD[*1] xxx[*2] yyyy[*3] [*1] : DVD laser current electricity measurement mode [*2] : Current electricity initialization value stored in EEPROM [*3] : Present value of current electricity Values are shown in the decimal digit. The above example indicates that the current electricity initialization value is 12mA and its present value is 14mA.	Automatically exits the mode after five seconds.
ADSC internal RAM display	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button “1” or “2” on the remote controller unit.	ADSC internal RAM display Reads and displays the RAM value inside ADSC. The address is renewed when the CLEAR key is pressed so that the values at eleven points appear.	FB0_0000 Values are shown in the hexadecimal digit. The above example indicates that ADSC value at the address, FB0h is 0000h.	Press the STOP or OPEN button on the player.

Item	Operational Condition and Key Function	Details	Display	TO Exit Mode
Measurement of CD laser current electricity	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button “3” on the remote controller unit. Press “Dimmer/FL Display” button for next page	Measurement of CD laser current electricity Measures CD laser current electricity and displays the result together with the initialization value stored in EEPROM. After measurement, CD laser is lit till the power is turned off (or goes off when the primary power is turned off).	LDC[*1] xxx[*2] yyyy[*3] [*1] : CD laser current electricity measurement mode [*2] : Current electricity initialization value stored in EEPROM [*3] : Present value of current electricity Values are shown in the decimal digit. The above example indicates the current electricity initialization value is 28mA and its present value is 26mA when laser is turned on.	Automatically exits the mode after five seconds.
User initialization	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button **≧10** on the remote controller unit.	User initialization The user setting recovers the factory setting.	“INIT”	Automatically exits the mode after five seconds.
Region display	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button, “6” on the remote controller unit.	Region display	[2_P6_632] s : Panecon model type rrr : Panecon release number x : Syscon generation (45) y: Syscon model type zzz: Syscon release number	Automatically exits the mode after five seconds.
Firmware version display	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button, “7” on the remote controller unit. Press “Dimmer/FL Display” button for next page	Firmware version display	rrr[*1] xx[*2] y[*3] zzz[*4] [*1] : Panel computer release number [*2] : System computer generation [*3] : System computer model type [*4] : System computer release number	Automatically exits the mode after five seconds.
Region and firmware display	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button, “8” on the remote controller unit.	Region and firmware version display	2[*1] 90[*2] E3[*3] 22[*4] [*1] : Region number [*2] : System computer generation [*3] : System computer model type [*4] : System computer release number	Automatically exits the mode after five seconds.
Laser use time	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the ▲ button on the remote controller unit. Press “Dimmer/FL Display” button for next page	Laser usage time Measures each for DVD and CD respectively.	T1_ _1234 The numbers in the left show usage time for DVD laser and those in the right for CD laser. The four-digit number is shown by the ten hours in the decimal digit. The number after 0000 is 9999.	Automatically exits the mode after five seconds.
Reset laser use time	While the usage time 1 is displayed, press and hold down the ■ button on the player and the ▼ button on the remote controller unit.	Laser usage time reset Resets both for DVD and CD at once.	T1_ _0000	Automatically exits the mode after five seconds.

Item	Operational Condition and Key Function	Details	Display	TO Exit Mode
Spindle use time	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the ▶ button on the remote controller unit.	Spindle motor usage time	T2_00000 The four-digit number is shown by the ten hours in the decimal digit. The number after 00000 is 99999.	Automatically exits the mode after five seconds.
Reset spindle use time	While the usage time 2 is displayed, press and hold down the ■ button on the player and the ◀ button on the remote controller unit.	Usage time 2 reset Spindle motor usage time	T2_ _0000	Automatically exits the mode after five seconds.
User reset	While the player is stopped and no disc is inserted, press “STOP” & “ENTER” on remote control.	Reset the unit.	“DVD RESET”	Automatically exits the mode after five seconds.
Communication error display	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the MENU button on the remote controller unit. Press “Dimmer/FL Display” button for next page	Displays frequency of communication errors between system computer firm IC and mechanical computer IC during DVD module.	ECC_ _ _ 00	Press the STOP or Open button on the player.

14.7. CR16 Mechanism Ageing Mode

To perform the ageing mode:

1. Enter into Test mode.
2. Press [3] button on remote control. It enters into ageing mode. (see below for ageing process)

Ageing process:

1. Tray 1 open.
2. It waits for one second (Note: Do not put any disc into the tray.
3. Tray close.
4. TOC READ (Reading incomplete)
5. Tray 2 open & repeat step 1 to step 4. (Process repeat until Tray 5)
6. Tray check.
7. Whole process complete (Counter on FL increase by 1)

Note: To exit ageing mode, press [POWER] button. The unit will power down. Do not unplug the power cord until FL display shows “GOODBYE”. This is to avoid tray jam problem.

14.8. Operation Lock Function

14.8.1. Setting

- **Operation Lock Function**
  1. With the DVD/CD/ ▶ and POWER ON, and then press the [POWER] KEY on the remote control for 3 seconds to enter Lock mode B.

     [_LOCKED_] will be displayed for 3 seconds, and the current disc will begin playing.
  2. Lock mode B primarily controls the selector and disc operations, and disenables for the following keys.

  Note:

  OPEN/CLOSE ⏏ button are invalid and the player displays “_LOCKED_” while the lock function mode is entered.
- **Prohibiting operation of selector and disk**
  1. Select the DVD/CD/ ▶ function.
  2. Press and hold down the DVD/CD/ ▶ button on the player and the power button on the remote controller unit for at least three seconds. (The message, “_LOCKED_” appears when the function is activated.)

Note:

The following buttons are invalid and the player displays "_LOCKED_" while the lock function mode is entered.

Main unit: DISC CHECK, ≙, OPEN/CLOSE, ≙, DISC CHANGE, 1–5, REW/∨/I◄◄, ►►I/∧/FF, TUNER/BAND, AUX, ■ STOP, ◄►, TAPE, ● REC

Remote control: 0 – 9, ≧10, QUICK OSD, V.MUTE, II, ■, CANCEL, MANUAL SKIP, QUICK REPLAY, TUNER/AUX, ◄►, TAPE, FUNCTIONS, GROUP, SHIFT, REW/∨/I◄◄, ►►I/∧/FF, MUTING, CLOCK/TIMER, SLEEP, FL DISPLAY, DIMMER, DISC, TUNER PGM, CD MODE, REPEAT, A.DISC REVIEW, PLAY SPEED, RETURN, ZOOM, ◄◄, ►►, SLOW/SEARCH

14.9. Things to Do After Repair

Follow the procedure described below after repair.

1. While the power is on, press the ≙ button to close the tray.
2. Press the power button to turn off the power.
3. Unplug the power cable.

Note:

It is prohibited to unplug the power cable while the tray is opened and to close the tray manually.

15 Cautions To Be Taken During Servicing

15.1. Recovery after the dvd player is repaired

- When Flash ROM or DVD Module P.C.B. is replaced, carry out the recovery processing to optimize the drive. Playback the recovery disc to process the recovery automatically.
- Recovery disc (Product number=RFKZD03R005)
- Performing recovery
  1. Load the recovery disc (Product number: RFKZD03R005) to the player and run it.
  2. Recovery is performed automatically. When it is finished, a message appears on the screen.
  3. Remove the recovery disc.
  4. Turn off the power.

15.2. DVD Player Firmware Version Upgrade Process

Firmware of DVD player may upgrade to conform to improvement of its performance and quality including operational range, playability of non-standardized discs, etc. The version upgrade disc contains the recovery function, and the recovery disc is not necessary.

Note:

Version upgrade process cannot be complete if the AC power is cut off due to power failure and other occasions during the process. If this occurs, replace FLASH ROM IC and restart version upgrade. Version upgrade disc number is informed when ordered.

15.3. Firmware Version Upgrade Process by Using Disc and Recovery Process

- Recovery process
- Firmware version upgrade process

Both of the above procedures automatically start when the recovery disc is replayed.General CD-R disc allows version upgrade process and recovery process, making version upgrade through disc simple.
Recovery process: Optimization process of player after replacement of FLASH ROM, EEPROM, or module circuit board
Version upgrade process: Renewal of firmware for improvement of operational range and performance

15.4. Using Recovery Disc

15.4.1. Recovery Process

1. Insert the recovery disc (RFKZD03R005) to the player to replay.
2. The recovery process automatically starts, and a message of completion prompts on the screen.
3. Remove the disc.
4. Turn off the power.

15.4.2. Version Upgrade Process

1. Insert the recovery disc to the player to replay.
2. The version of player is automatically checked and prompts if necessary.
3. Select version upgrade process using the cursor keys on the remote controller unit. (Select YES or NO)
4. a. If YES is selected, the process starts.
   b. If NO is selected, only the recovery process is applied.
5. a. When the version upgrade process is complete, a message of completion appears on the screen. Remove the disc.
   b. Follow the instruction appearing on the screen, and remove the disc.
6. Turn off the power.

15.5. Total Usage Time Display

1. Details of Operation/Display

1234 5678	Total usage time of DVD/CD lasers Time is shown by the ten hours in the decimal digit.
T2 1234	Total usage time of spindle motor Time is shown by the ten hours in the decimal digit.

Keys for Operation:
Laser usage time: While the player is stopped and no disc is inserted, press both the ■ button on the player and the ▲ button on the remote controller unit.
Spindle motor usage time: While the player is stopped and no disc is inserted, press both the ■ button on the player and the ▶ button on the remote controller unit.

To reset the usage time, **while the usage time is displayed:**
Laser usage time: press both the ■ button on the player and the ▼ button on the remote controller unit.
Spindle motor usage time: press both the ■ button on the player and the ◀ button on the remote controller unit.

2. Purpose of Use

To obtain reference data of laser and spindle motor systems during failure diagnosis.
To check faulty parts during re-repair.

15.6. After replacement of DVD Module

Below steps is to be performed after changing of DVD Module

1. Press **≧10** on remote control while pressing “STOP” on main unit.
2. FL will display “INITIALIZE”.
3. Press “STOP” & “ENTER” on remote control (For reset of unit)
4. FL will display “DVD RESET” before change to TOC reading again.
5. Power off the set. Unplug AC cord & wait for few seconds.
6. Plug in AC cord & power on set.

16 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 26), if necessary.

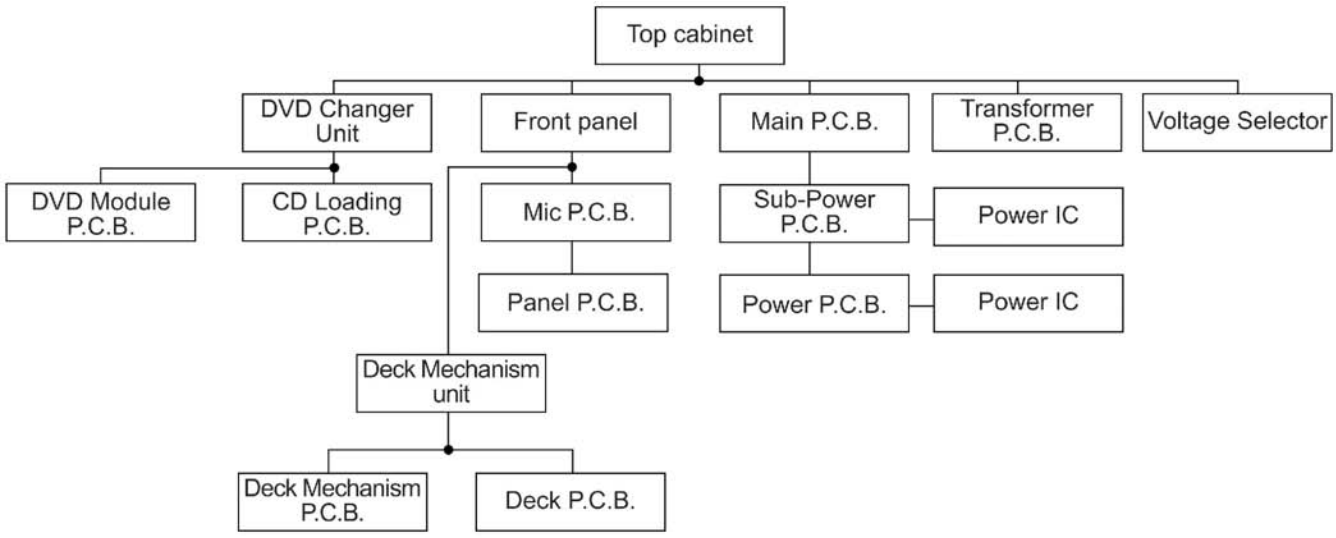
16.1. Disassembly steps

- **Disassembly of Top Cabinet**
- **Disassembly of Rear Panel**
- **Disassembly of DVD Changer Unit**
- **Disassembly of Main P.C.B.**
- **Disassembly of Sub-Power P.C.B.**
- **Disassembly of Power P.C.B.**
- **Disassembly of Transformer P.C.B. & Voltage Selector**
- **Disassembly of Front Panel Unit**
- **Disassembly of Mic P.C.B. & Panel P.C.B.**
- **Disassembly of Deck Mechanism Unit**
- **Replacement for Deck Mechanism P.C.B.**
- **Replacement for Traverse Deck**
- **Replacement for Optical Pickup Unit (DVD Mechanism)**
- **Procedure for removing CD loading mechanism**
- **CR16 mechanism disassembly procedure**
- **CR16 mechanism assembly procedure**
- **Disassembly for Traverse Unit**
- **Replacement for cassette lid ass’y**
- **Rectification for tape jam problem**

16.2. Disassembly flow chart

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

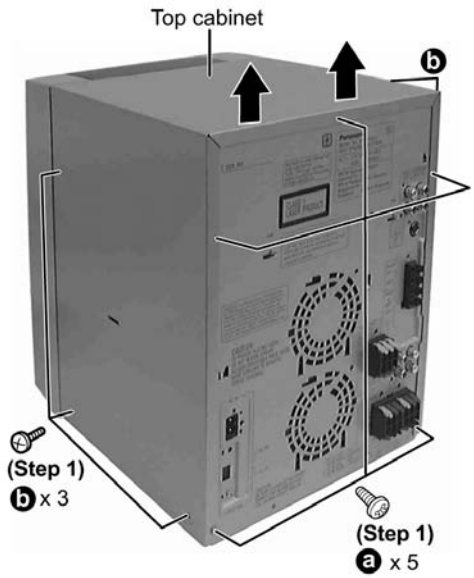
To assemble the unit, reverse the steps shown in the chart as below.



16.3. Disassembly of Top Cabinet

Step 1 Remove 3 screws at each side and 5 screws at rear panel.

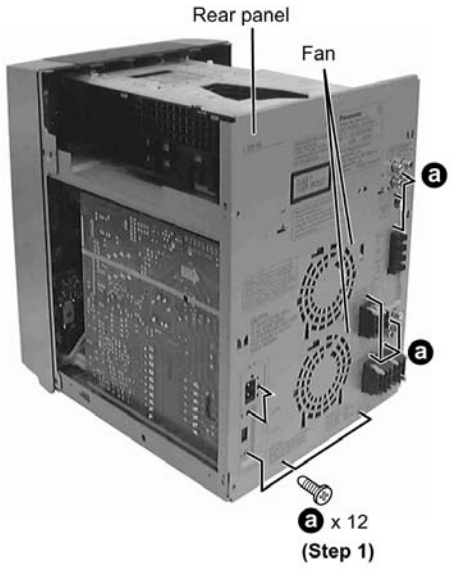
Step 2 Lift up both sides of the top cabinet, push the top cabinet towards the rear and remove the top cabinet.



16.4. Disassembly of Rear Panel

- Follow the (Step 1) - (Step 2) of Item 16.3 - Disassembly of Top Cabinet

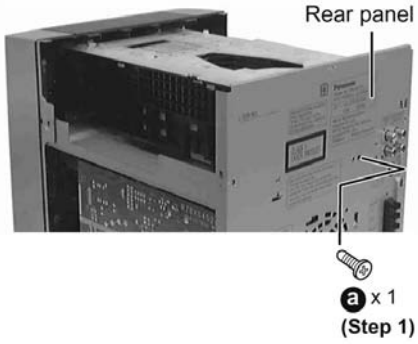
Step 1 Remove 12 screws and disconnect cables CN2810 and CN2813 (Fan) at rear panel as shown.

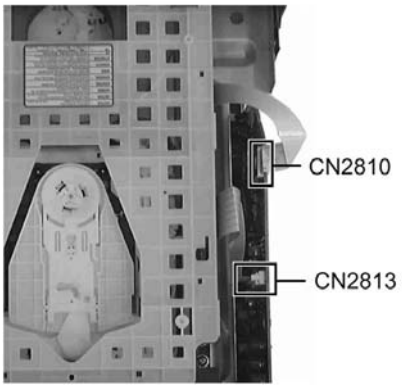


16.5. Disassembly of DVD Changer Unit

- Follow the (Step 1) - (Step 2) of Item 16.3 - Disassembly of Top Cabinet

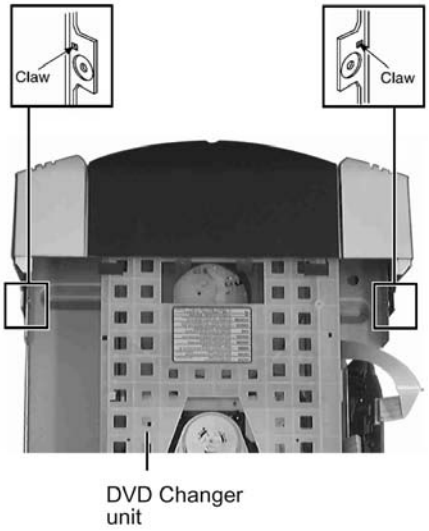
Step 1 Remove 1 screw at rear panel.

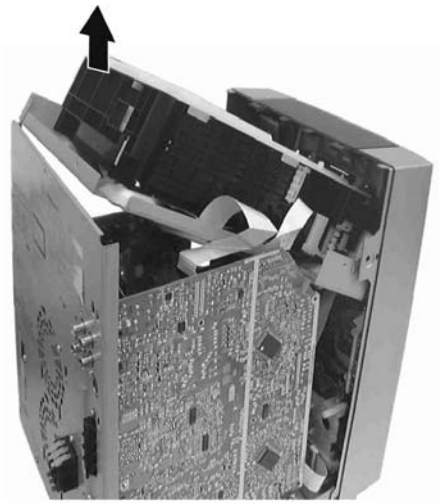




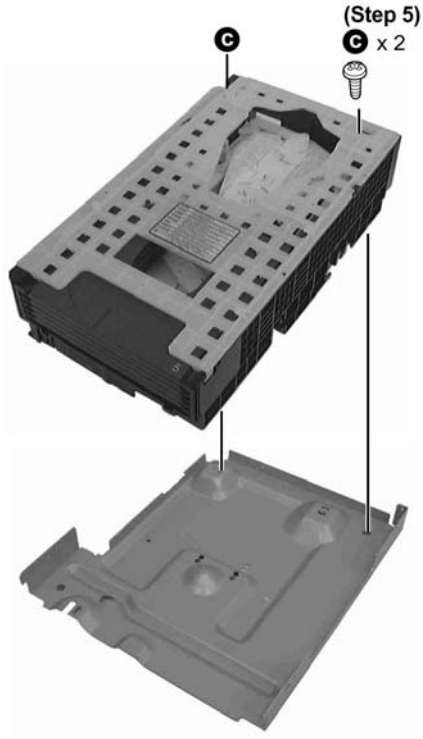
Step 2 Detach the FFC cables (CN2810 & CN2813).

Step 3 Release the claws on both ends, and remove the DVD changer unit.





Step 4 Lift the DVD changer unit upwards.

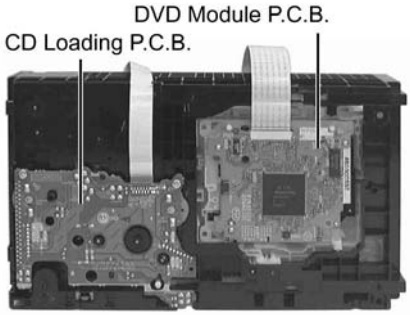


Step 5 Remove 2 screws.

Step 6 Remove the DVD chassis.

Step 7 Lay the unit.

- For disassembly of DVD mechanism unit, please refer to Section 16.16 of this manual.

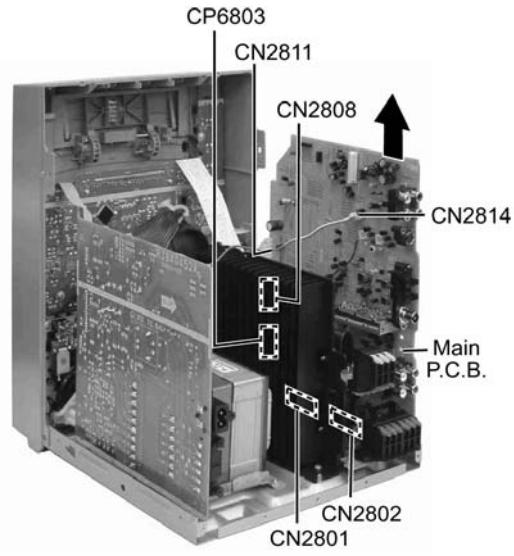


16.6. Disassembly of Main P.C.B.

- Follow the (Step 1) - (Step 2) of Item 16.3 - Disassembly of Top Cabinet
- Follow the (Step 1) of Item 16.4 - Disassembly of Rear Panel
- Follow the (Step 1) - (Step 4) of Item 16.5 - Disassembly of DVD Changer Unit

Step 1 Detach CN2815 & CN2816 (Fan).

Step 2 Disconnect FFC cables (CP6803, CN2811, CN2818 and CN2814).

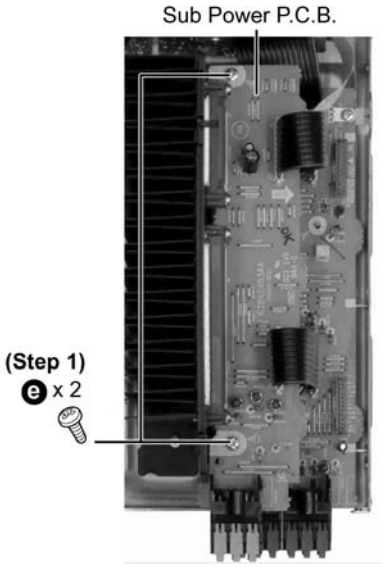


Step 3 Lift up Main P.C.B. by disconnecting connectors CN2801 & CN2802 as arrow shown above.

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

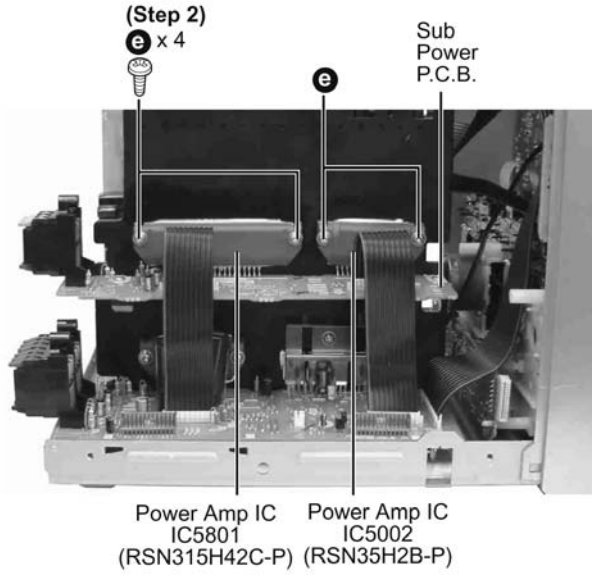
- Follow the (Step 1) - (Step 2) of Item 16.3 - Disassembly of Top Cabinet
- Follow the (Step 1) of Item 16.4 - Disassembly of Rear Panel
- Follow the (Step 1) - (Step 4) of Item 16.5 - Disassembly of DVD Changer Unit
- Follow the (Step 1) - (Step 3) of Item 16.6 - Disassembly of Main P.C.B.

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



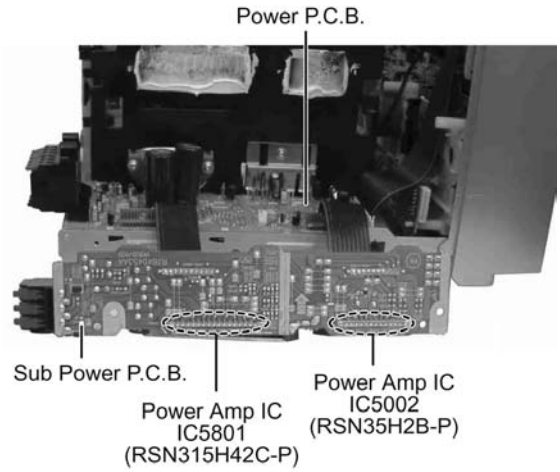
Step 2 Remove the 2 screws at each Power Amplifier IC.

Step 3 Lift up the Sub-Power P.C.B. to remove it.



- **Replacement of the Power Amplifier IC**

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



16.8. Disassembly of Power P.C.B.

- Follow the (Step 1) - (Step 2) of Item 16.3 - Disassembly of Top Cabinet
- Follow the (Step 1) of Item 16.4 - Disassembly of Rear Panel
- Follow the (Step 1) - (Step 4) of Item 16.5 - Disassembly of DVD Changer Unit
- Follow the (Step 1) - (Step 3) of Item 16.6 - Disassembly of Main P.C.B.

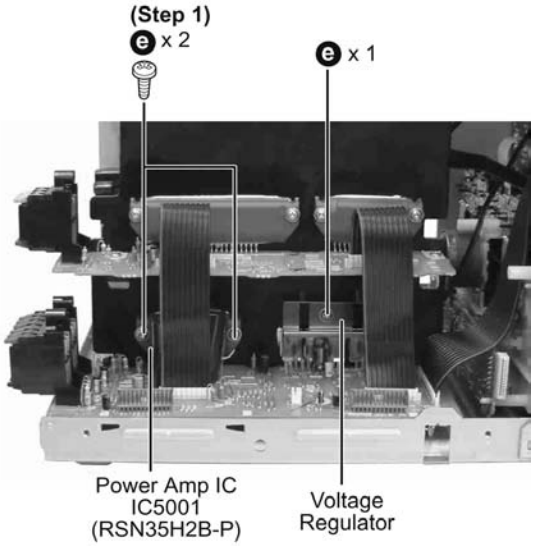
Step 1 Remove the 2 screws fixed at heat sink and 1 screw fixed at Power P.C.B..

Note:

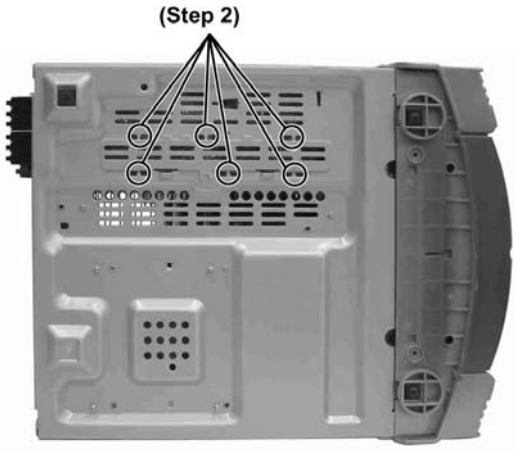
Insulate the Power P.C.B. with insulation material to avoid short circuit.

- **Replacement of the Power Amplifier IC or Voltage Regulator**

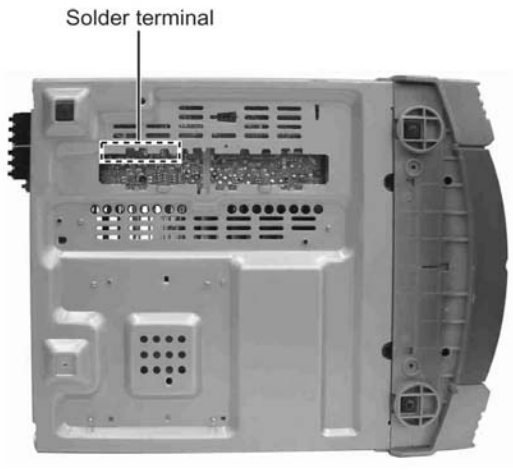
  Step 1 Remove 2 screws fixed to the Power Amplifier IC or 1 screw to Voltage Regulator.



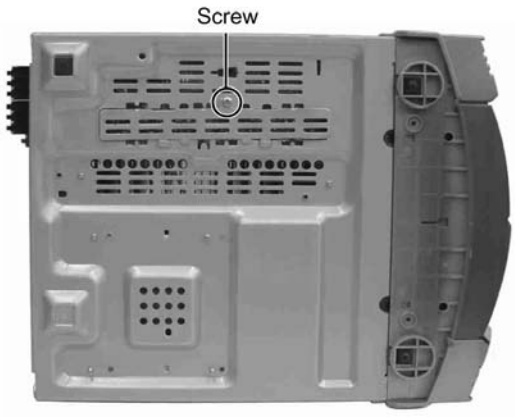
Step 2 Break the joints with a metal cutter as shown below.



Step 3 Unsolder the terminals of Power Amp IC or transistor to replace the components.



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

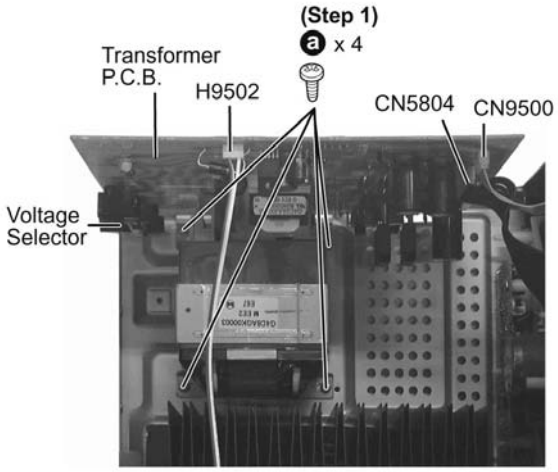


16.9. Disassembly of Transformer P.C.B. & Voltage Selector

- Follow the (Step 1) - (Step 2) of Item 16.3 - Disassembly of Top Cabinet
- Follow the (Step 1) of Item 16.4 - Disassembly of Rear Panel
- Follow the (Step 1) - (Step 4) of Item 16.5 - Disassembly of DVD Changer Unit
- Follow the (Step 1) - (Step 3) of Item 16.6 - Disassembly of Main P.C.B.
- Follow the (Step 1) of Item 16.8 - Disassembly of Power P.C.B.

Step 1 Remove 4 screws.

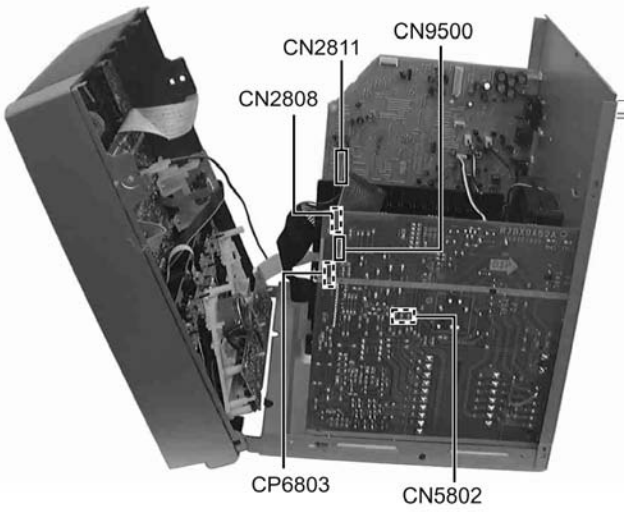
Step 2 Disconnect connectors CN5804, CN9500 & H9502.



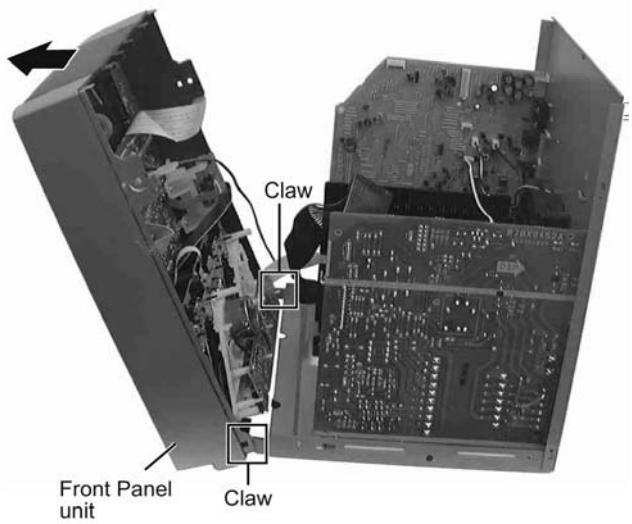
16.10. Disassembly of Front Panel Unit

- Follow the (Step 1) - (Step 2) of Item 16.3 - Disassembly of Top Cabinet
- Follow the (Step 1) - (Step 4) of Item 16.5 - Disassembly of DVD Changer Unit

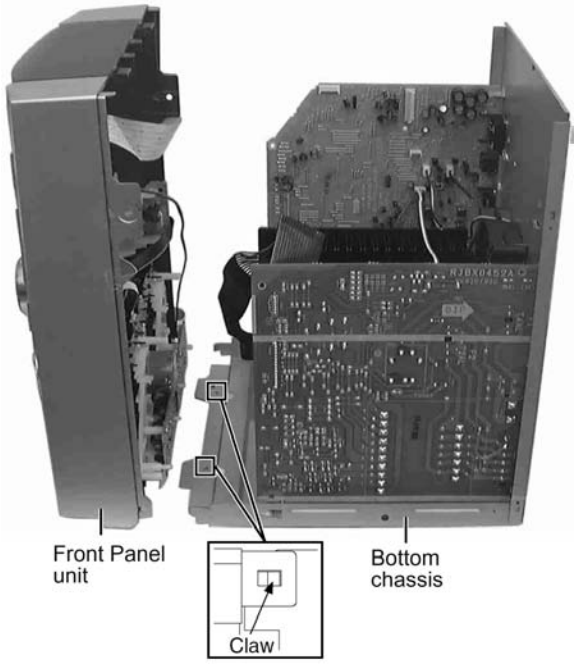
Step 1 Disconnect connectors CN9500, CN2811, CN2808, CP6803 & CN5802.



Step 2 Bent the front panel unit forward as arrow shown.



Step 3 Press the 2 catch holders on both sides of the front panel unit to release the claws.



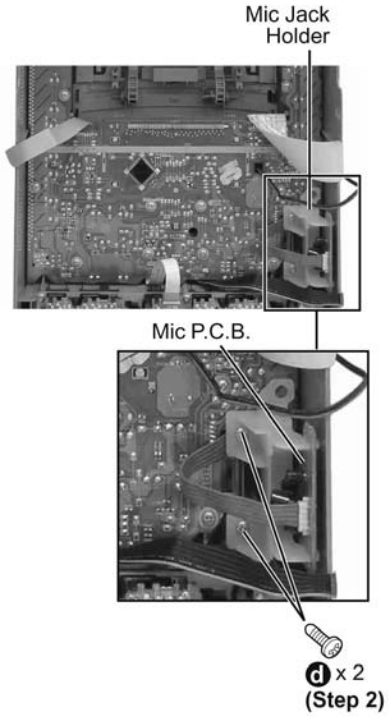
Step 4 Remove the front panel unit.

Note: Ensure 2 claws on bottom chassis is properly and fully catched to the front panel holes.

16.11. Disassembly for Mic P.C.B. & Panel P.C.B.

- Follow the (Step 1) - (Step 2) of Item 16.3 - Disassembly of Top Cabinet
- Follow the (Step 1) - (Step 4) of Item 16.5 - Disassembly of DVD Changer Unit
- Follow the (Step 1) - (Step 4) of Item 16.10 - Disassembly of Front Panel Unit

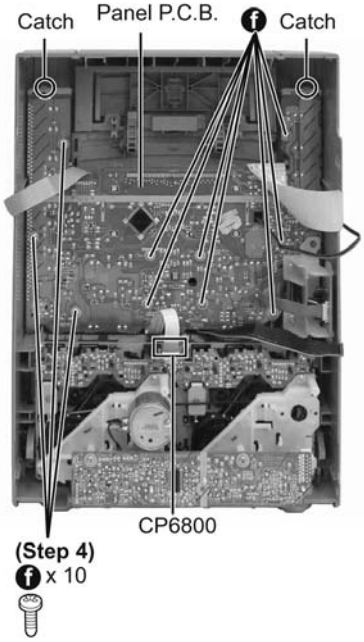
Step 1 Remove volume knob.



Step 2 Remove 2 screws.

Step 3 Lift up Mic Jack holder.

- Disassembly of Panel P.C.B.



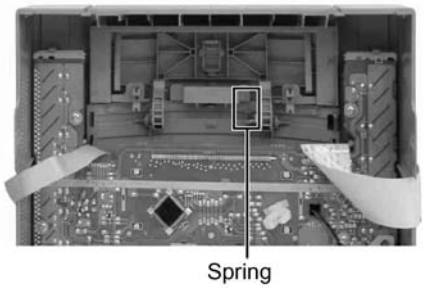
Step 4 Remove 10 screws.

Step 5 Disconnect connector CP6800.

Step 6 Release 2 catches.

16.11.1. Disassembly of Lid

Step 1 Lift the spring sideward.



Step 2 Remove Lid.

Note: Do not misplace the spring.

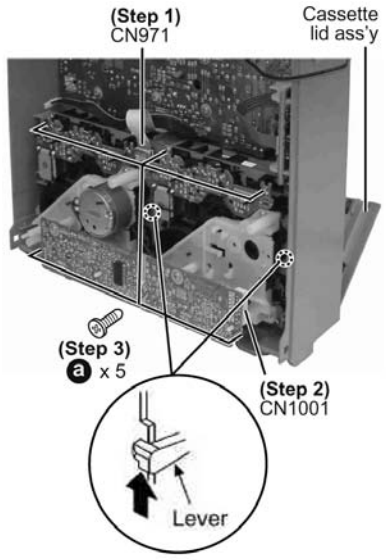
16.12. Disassembly of Deck Mechanism Unit

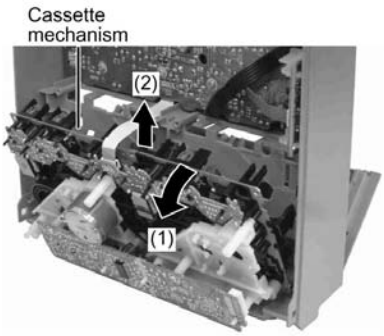
- Follow the (Step 1) - (Step 2) of Item 16.3 - Disassembly of Top Cabinet
- Follow the (Step 1) - (Step 4) of Item 16.5 - Disassembly of DVD Changer Unit
- Follow the (Step 1) - (Step 4) of Item 16.10 - Disassembly of Front Panel Unit

Step 1 Detach FFC wire CN971.

Step 2 Disconnect FFC flat cable from the connector CN1001.

Step 3 Remove the 5 screws.





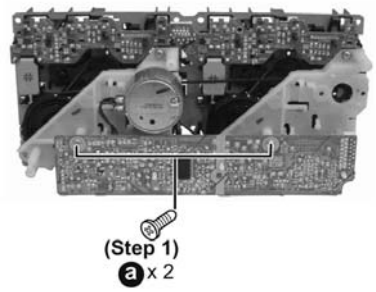
Step 4 Push the lever upward, and then open the cassette lid ass'y (For DECK1 and DECK2).

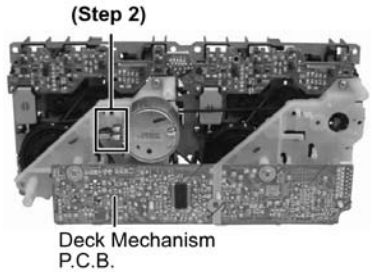
Step 5 Tilt the cassette mechanism unit in the direction of arrow (1), and then remove it in the direction of arrow (2).

16.13. Replacement for Deck Mechanism P.C.B.

- Follow the (Step 1) - (Step 2) of Item 17.3 - Disassembly of Top Cabinet
- Follow the (Step 1) - (Step 6) of Item 17.5 - Disassembly of DVD Changer Unit
- Follow the (Step 1) - (Step 4) of Item 16.10 - Disassembly of Front Panel Unit
- Follow the (Step 1) - (Step 5) of Item 16.12 - Disassembly of Deck Mechanism Unit

Step 1 Remove 2 screws.





Step 3 Remove Deck Mechanism P.C.B.

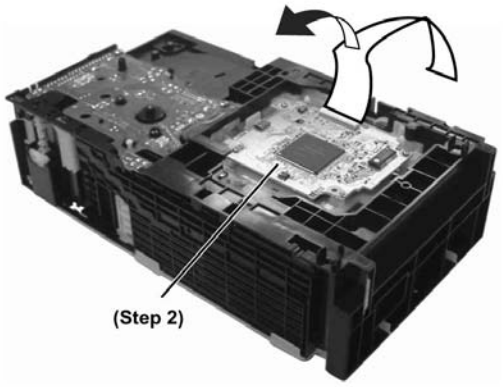
Step 2 Unsolder the motor terminals.

16.14. Replacement for Traverse Deck

- Follow the (Step 1) - (Step 2) of Item 16.3 - Disassembly of Top Cabinet
- Follow the (Step 1) - (Step 7) of Item 16.5 - Disassembly of DVD Changer Unit

Step 1 Move ribs at both sides to the arrow direction (The vertical rack (R) slides and the groove opens).

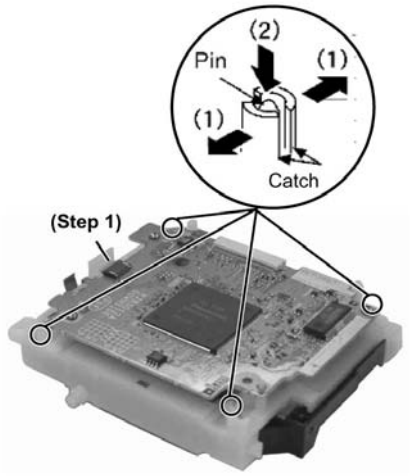
Step 2 Remove DVD traverse deck by rotating to the arrow direction.



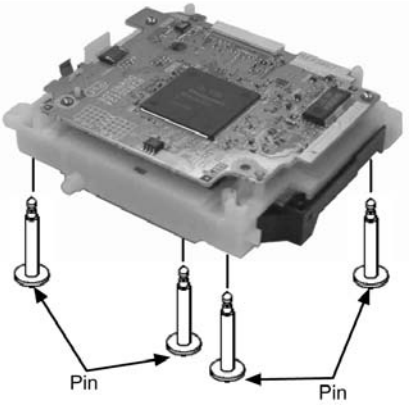
16.15. Replacement for Optical Pickup Unit (DVD mechanism)

- Follow the (Step 1) - (Step 2) of Item 16.3 - Disassembly of Top Cabinet
- Follow the (Step 1) - (Step 7) of Item 16.5 - Disassembly of DVD Changer Unit
- Follow the (Step 1) - (Step 2) of Item 16.14 - Replacement of Traverse Deck

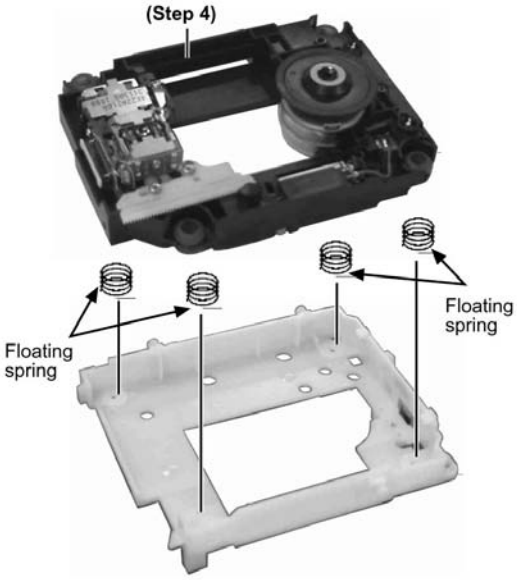
Step 1 Pull out FFC.



Step 2 Widening the catch, push the pin in.

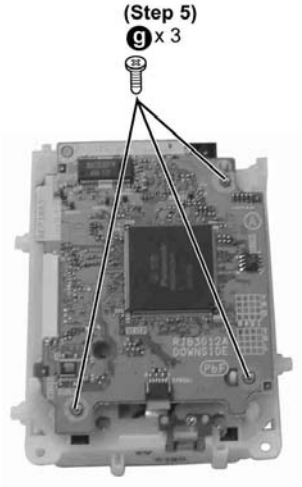


Step 3 Remove 4 pins.



Step 4 Remove the traverse deck.

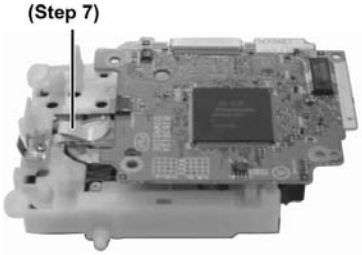
Note: As floating springs (4 pieces) come off at the same time, be careful not to lose them.

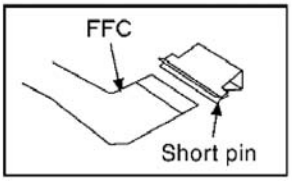


Step 6 Remove the dvd module board and turn it over.

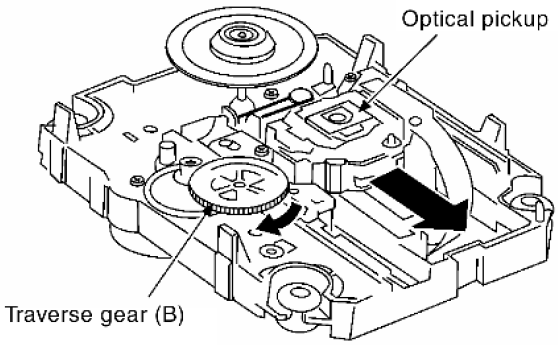
Step 7 Pull FFC out from the connector.

Note: Insert a short pin into FFC of the optical pickup. [See “Notice on handling of the optical pickup”].

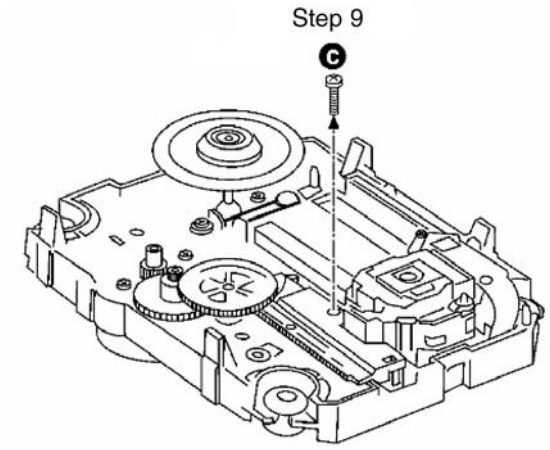


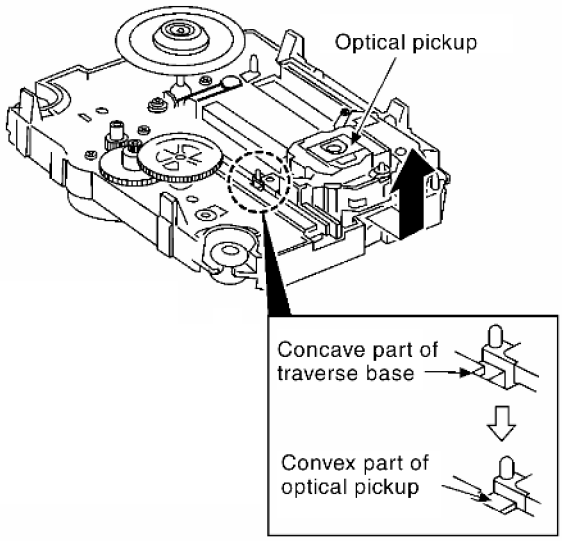


Step 8 Rotate the traverse deck (B) to the arrow direction and shift the optical pickup to the furthest backward.

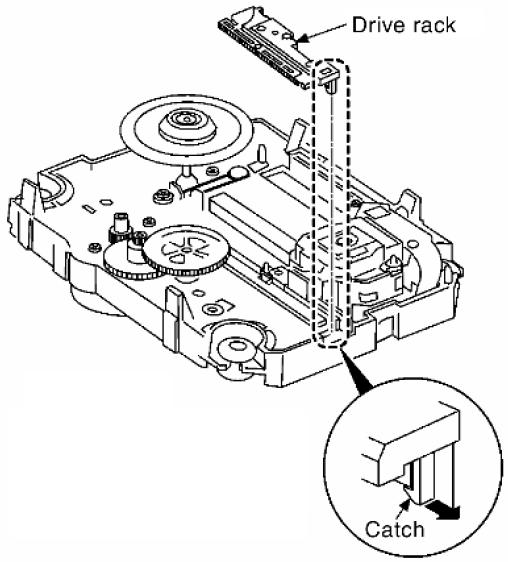


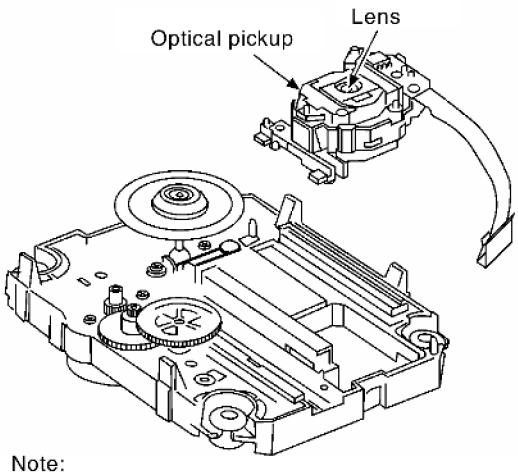
Step 9 Remove 1 screw.





Step 10 Remove the catch of the drive rack, and take out the drive rack.





Note:
Do not touch the lens of the optical pickup

Step 11 Place the convex part of an optical pickup to the concave part of a traverse base, then take out the optical pickup.

16.16. Procedure for removing CD loading mechanism

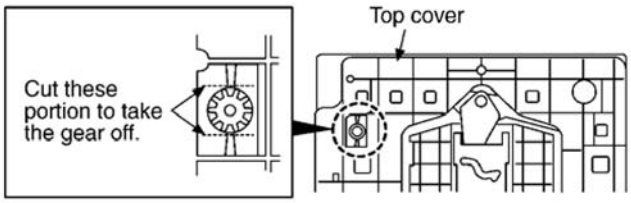
1. Turn off by pressing power SW in the body.
2. Unplug AC power cord after the indication of [GOOD-BYE], then disassemble the body.
3. Disassemble the body, and take out CD loading mechanism.
4. Perform disassembly according to the following procedure for disassembly.

16.17. CR16 mechanism disassembly procedure

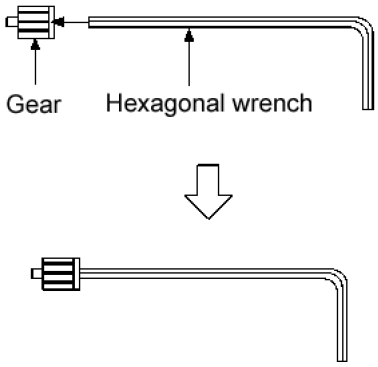
16.17.1. Gear for servicing information

- This unit has a gear which used for checking items (open/close of disc tray, up/down operation of traverse unit by manually) when servicing. (For gear information, that is described on the items for disassembly procedures.)
- For preparation of gear (for servicing), perform the procedures as follows.
- In case of re-servicing the same set, the “gear for servicing” may be took off because it had been used. So, the “gear for servicing” must be stored.

1. Remove the gear attached to top cover of CD loading mechanism.



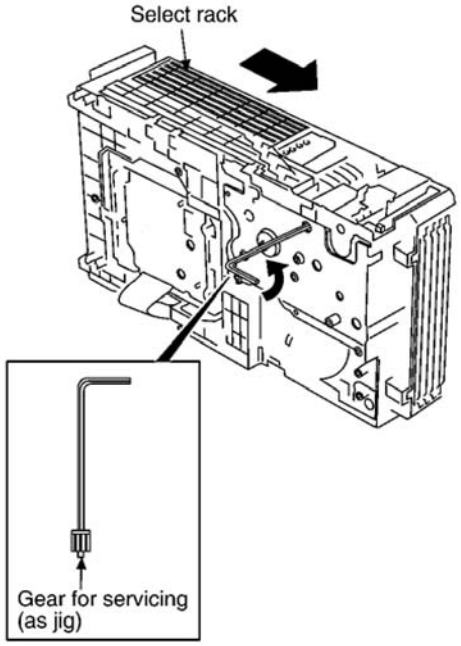
2. Insert the hexagonal wrench (2.5mm) into the gear.



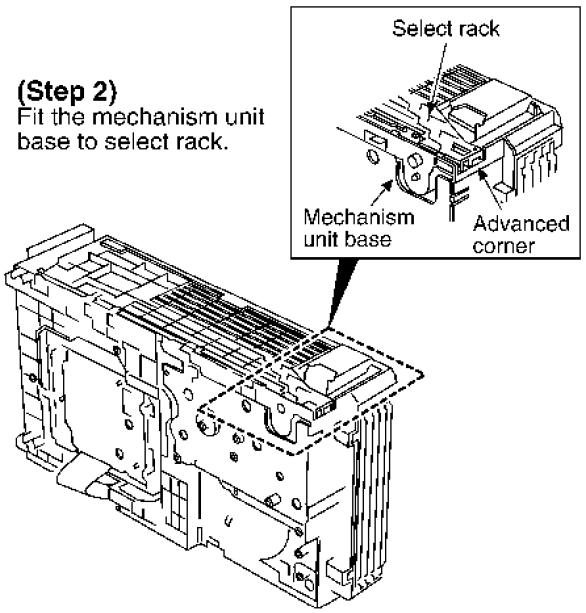
(Preparation of gear as jig is completed)

16.17.2. Replacement for the disc tray

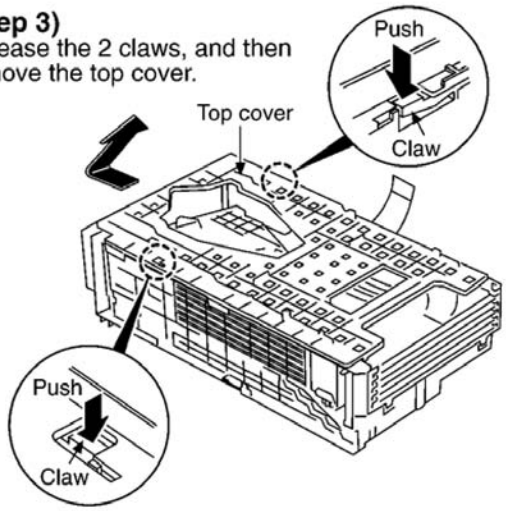
(Step 1)
Rotate the gear for servicing and move the select rack to advanced corner.



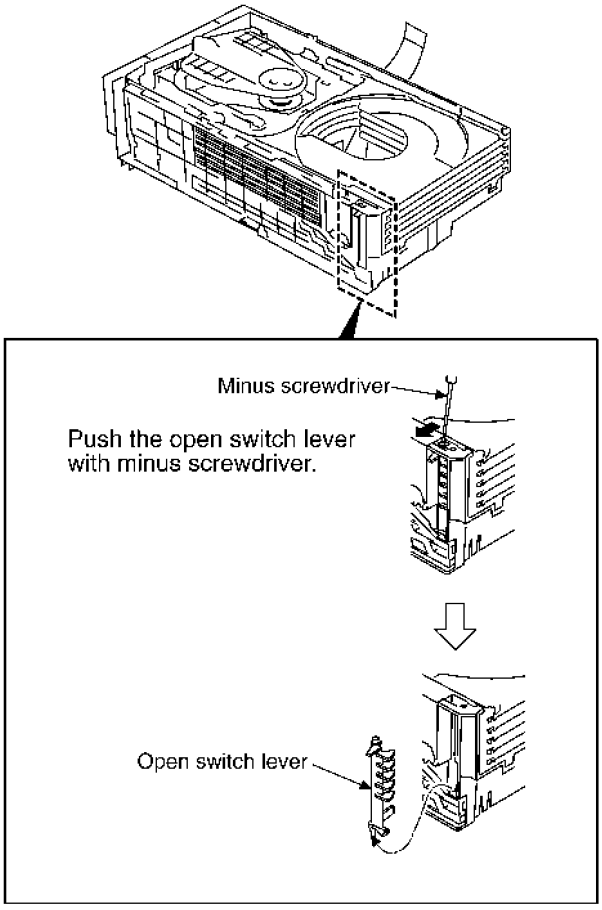
(Step 2)
Fit the mechanism unit base to select rack.



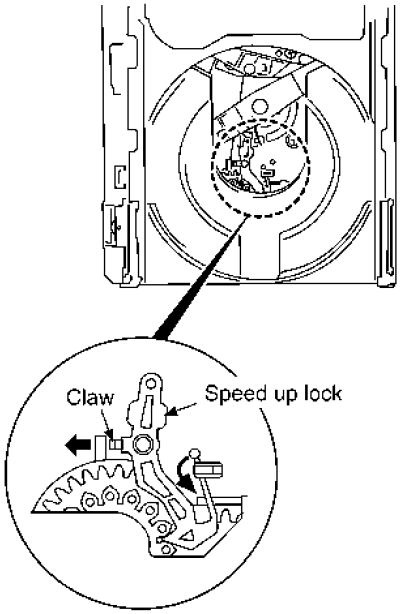
(Step 3)
Release the 2 claws, and then remove the top cover.



(Step 4)
Remove the open switch lever.



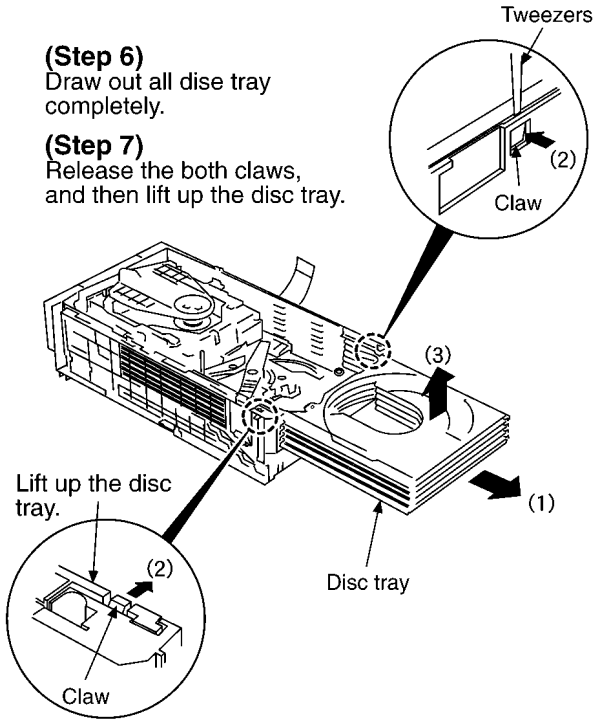
(Step 5)
Release the claw, and then remove the speed up lock.



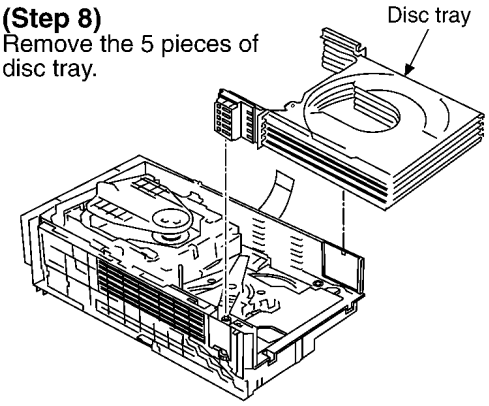
Insert the tweezers between the mechanism base and disc tray, and then lift up the disc tray.

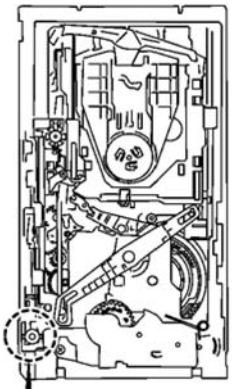
(Step 6)
Draw out all dise tray completely.

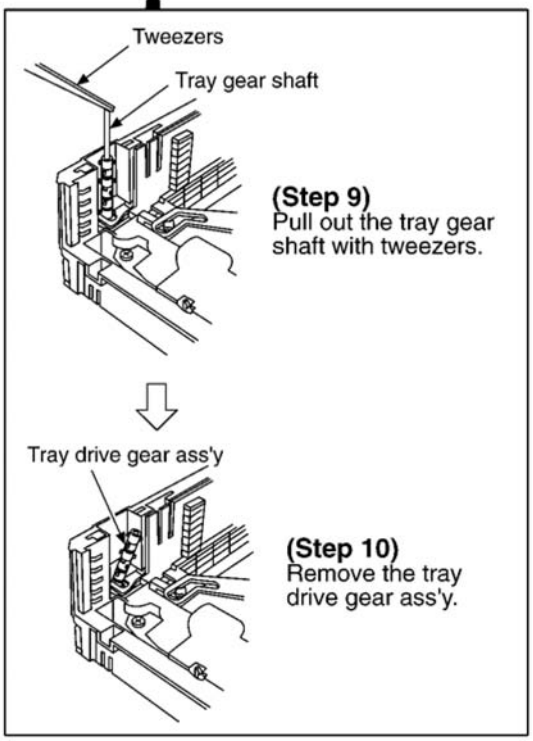
(Step 7)
Release the both claws, and then lift up the disc tray.



(Step 8)
Remove the 5 pieces of disc tray.





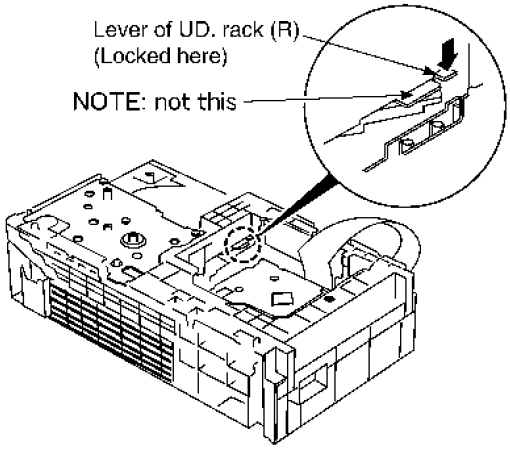


16.17.3. Replacement for the traverse deck

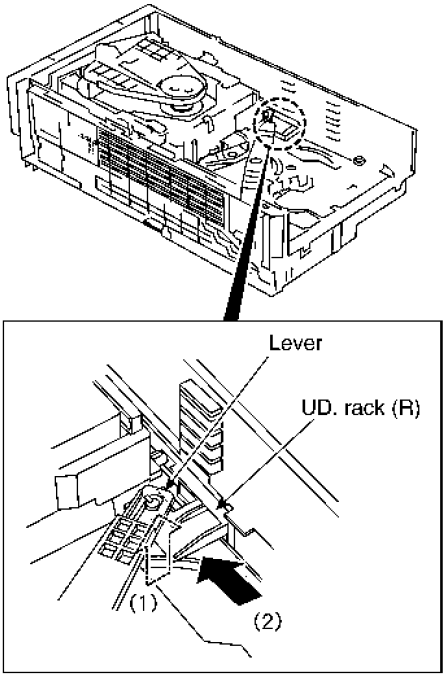
- Follow the **(Step 1)** - **(Step 10)** of item 16.17.2.

(Step 1)
Confirm the position for lever of UD. rack (R) to remove traverse unit.

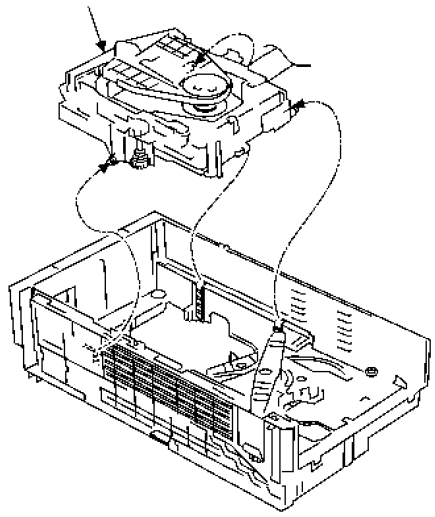
(Step 2)
Turn the unit over. (Upside: P.C.B.)



(Step 3)
Turn the unit over again, slide UD. rack (R) while pushing up the lever from the bottom.

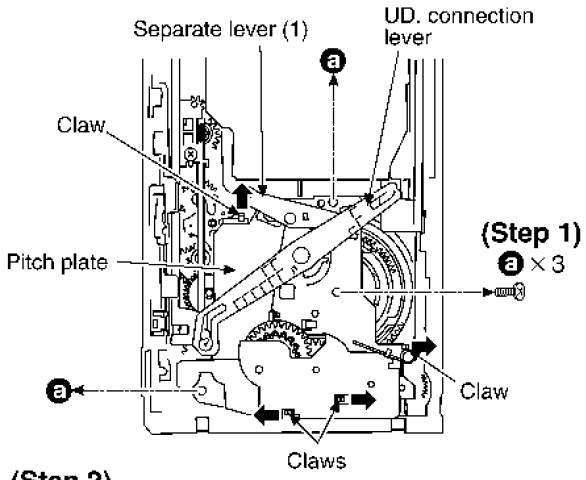


(Step 4)
Remove the traverse unit.



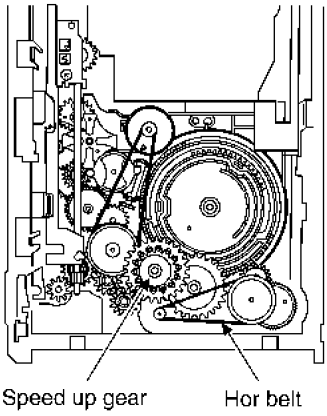
16.17.4. Disassembly for CD loading unit

- Follow the **(Step 1)** - **(Step 10)** of item 16.17.2.
- Follow the **(Step 1)** - **(Step 4)** of item 16.17.3.

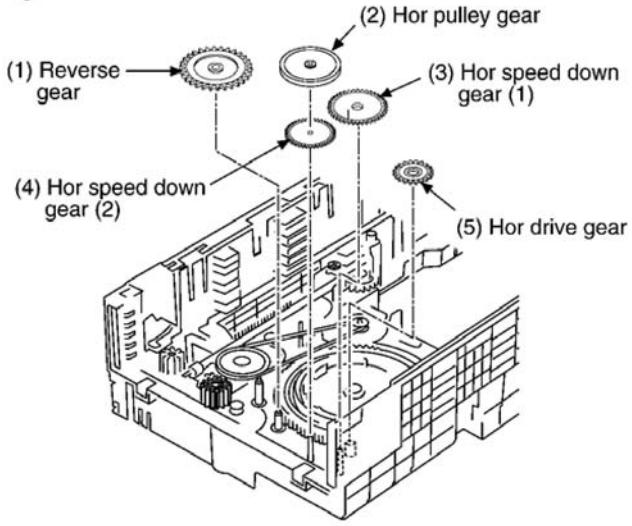


(Step 2)
Release the 4 claws, and then remove the pitch plate together with separate lever (1) and UD. connection lever.

(Step 3)
Remove the speed up gear and hor belt.

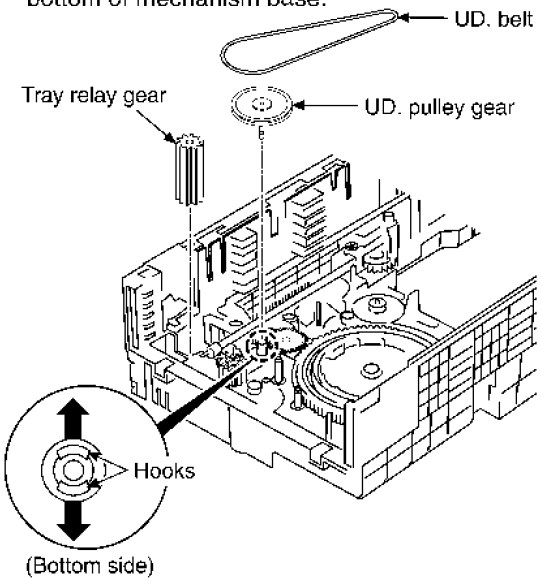


(Step 4)
Remove the reverse gear, hor pulley gear, hor speed down gear (1), hor speed down gear (2) and hor drive gear.

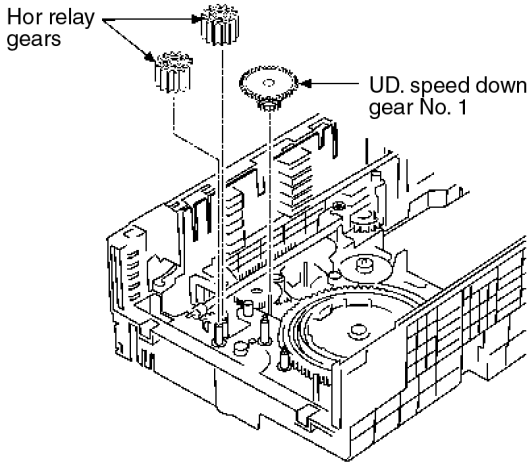


(Step 5)
Remove the UD. belt and tray relay gear.

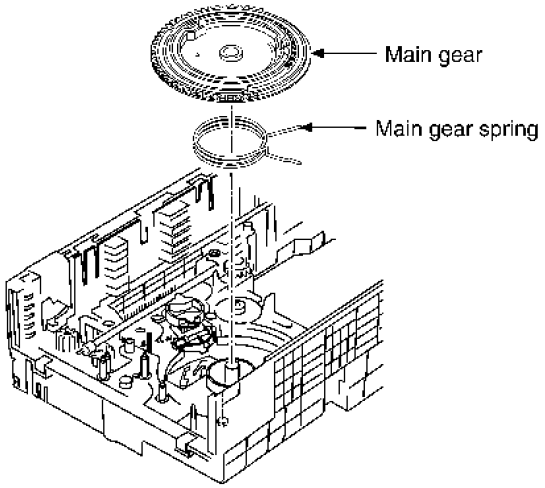
(Step 6)
Pull out the UD. pulley gear, loosen 2 hooks of the bottom of mechanism base.



(Step 7)
Remove the 2 hor relay gears and UD. speed down gear No. 1.

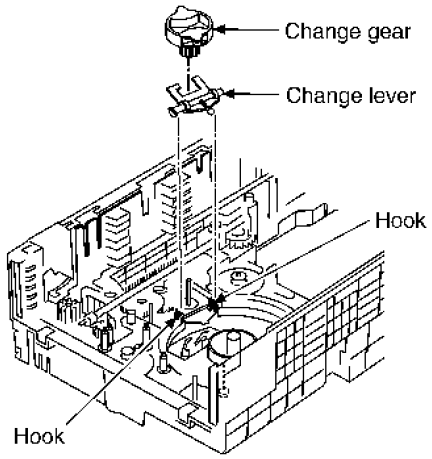


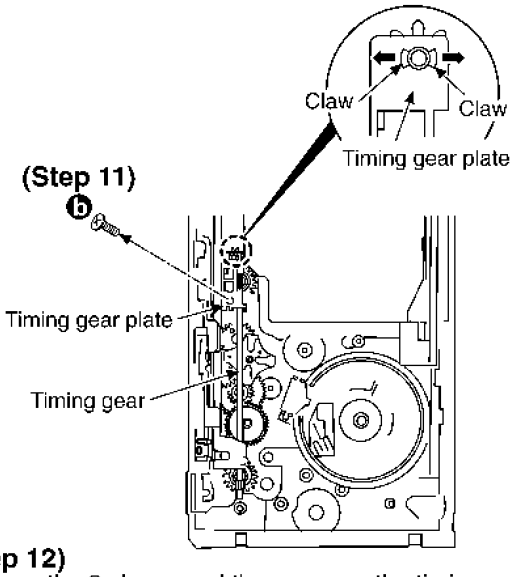
(Step 8)
Remove the main gear and main gear spring.



(Step 9)
Remove the change gear.

(Step 10)
Raise the change lever upright, and pull it out of hook.

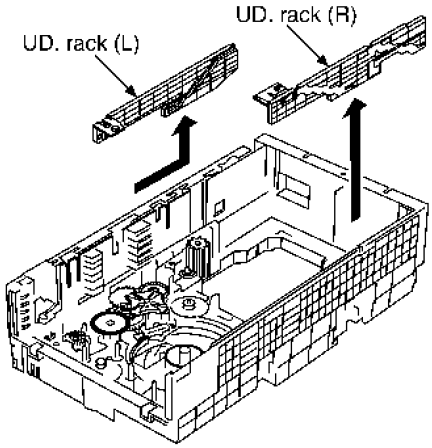




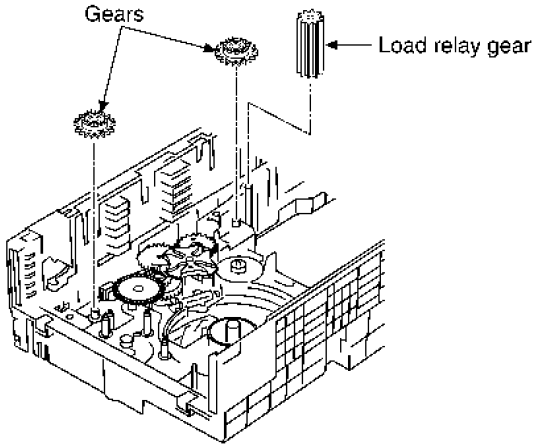
(Step 12)
Release the 2 claws, and then remove the timing gear and timing gear plate.

(Step 13)
Move the UD. rack (L) to backward, and then remove it.

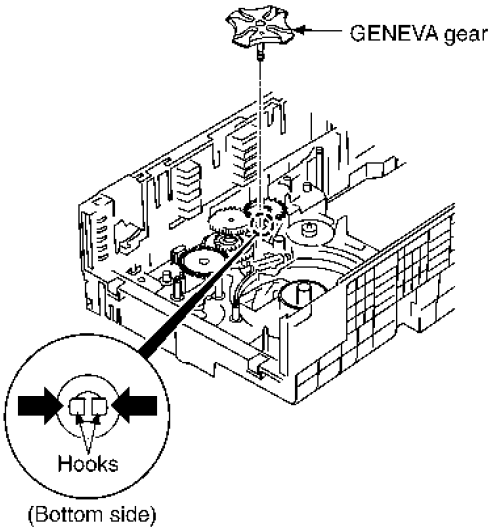
(Step 14)
Remove the UD. rack (R).



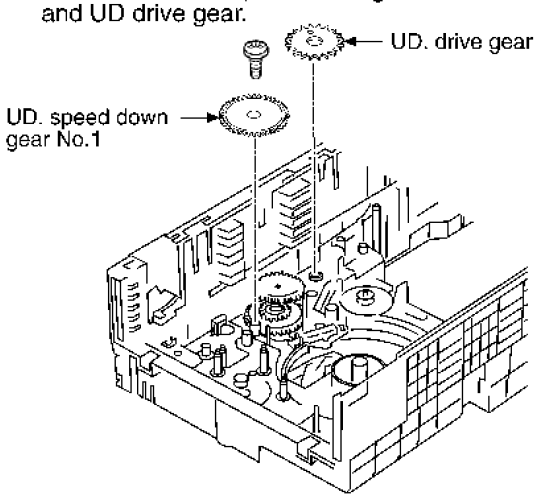
(Step 15)
Remove the 2 gears and load relay gear.



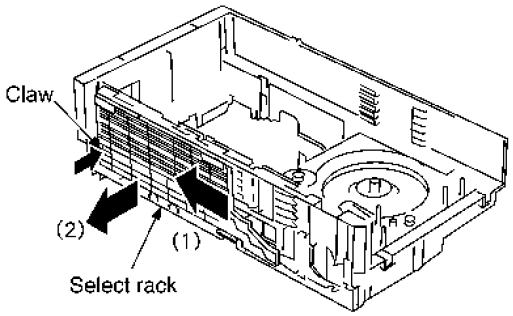
(Step 16)
Pull out the GENEVA gear, loosen 2 hooks of the bottom of mechanism base.

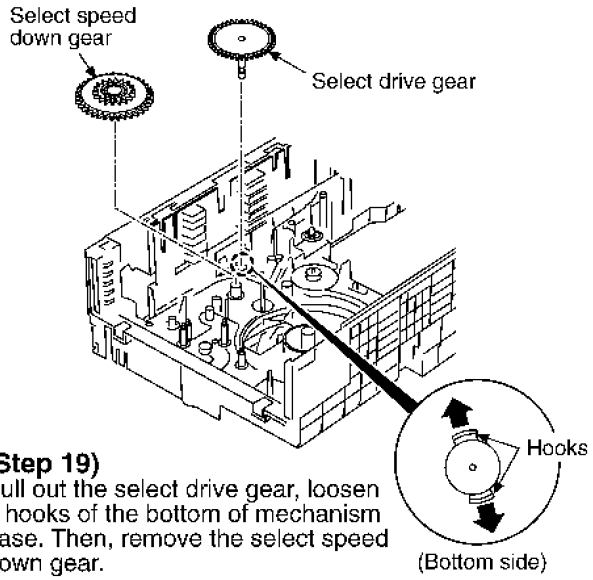


(Step 17)
Remove the UD. speed down gear No.1 and UD drive gear.



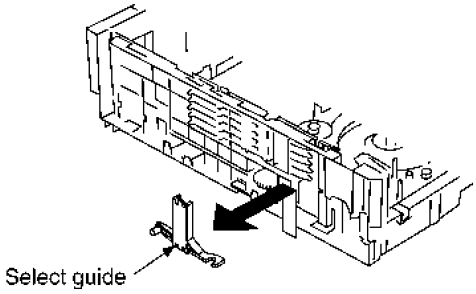
(Step 18)
Slide the select rack to the edge direction of the arrow (1). Push the claw and pull out to arrow (2) while sliding the select rack to the arrow (1).



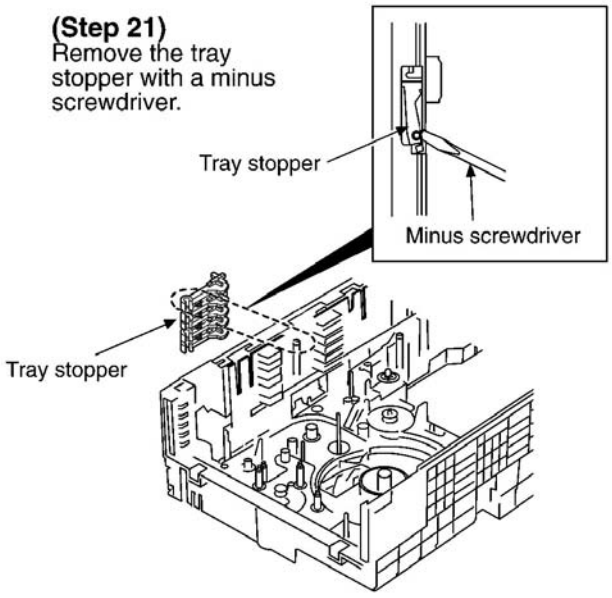


(Step 19)
Pull out the select drive gear, loosen 2 hooks of the bottom of mechanism base. Then, remove the select speed down gear.

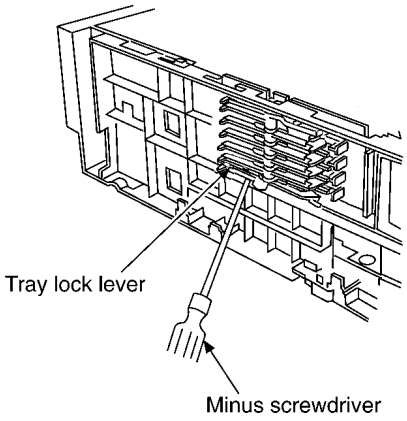
(Step 20)
Remove the select guide after sliding upside.



(Step 21)
Remove the tray stopper with a minus screwdriver.



(Step 22)
Remove the bottom of the tray lock lever with a minus screwdriver and others.

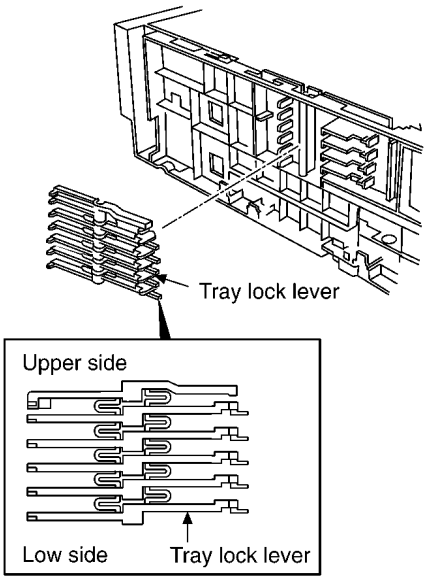


16.18. CR16 mechanism assembly procedure

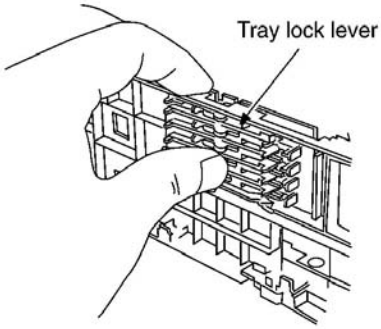
The following specified greases and/or oil must be applied when some specific parts are changed.

1. Floil grease (VFK1298) : The floil grease must be applied to tray, tray (L) and tray (R).
2. Hanarl oil (VFK1700) : The hanarl oil must be applied to any parts with grease other than the said parts.

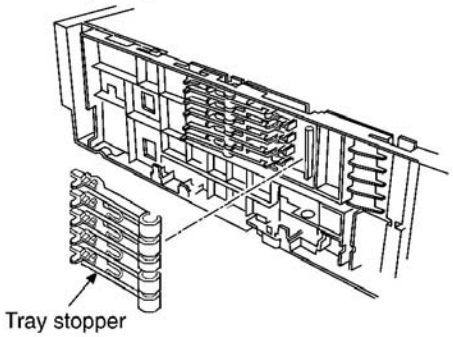
(Step 1)
Install the tray lock lever to mechanism base.



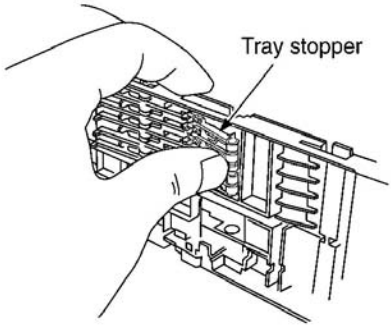
(Step 2)
Push the tray lock lever with a hand and install it.



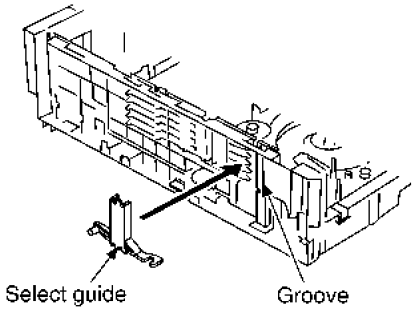
(Step 3)
Install the tray stopper to mechanism bese.



(Step 4)
Push the tray stopper with a hand and install it.

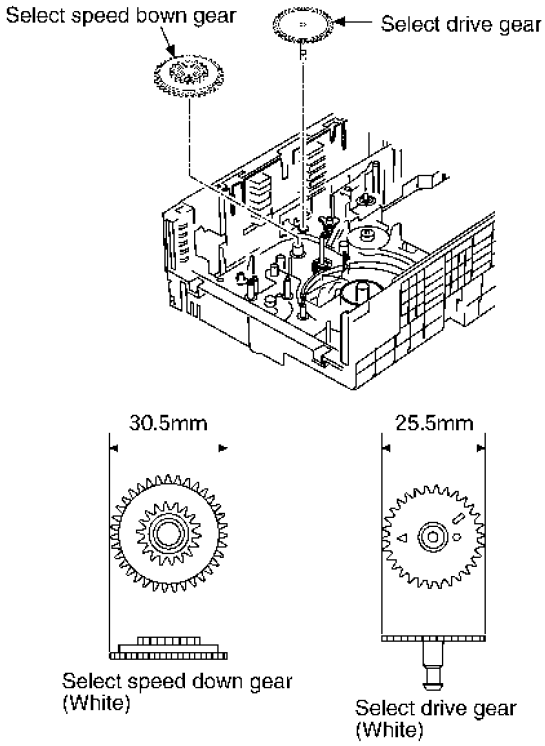


(Step 5)
Insert the select guide with a groove of the mechanism base and move it below.

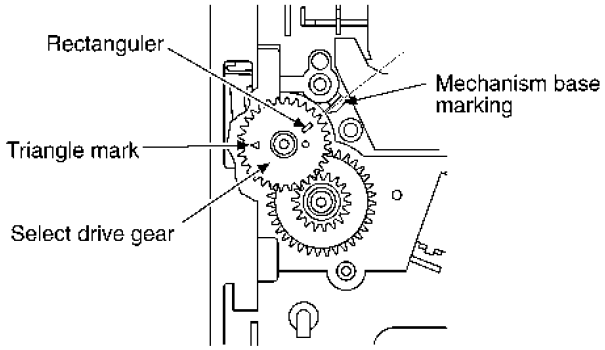


(Step 6)
Install the select speed down gear to mechanism base.

(Step 7)
Install the select drive gear to mechanism base.

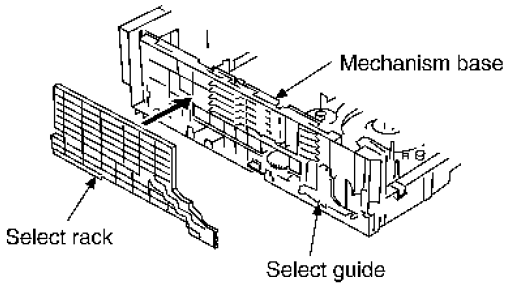


(Step 8)
Fit a mechanism base marking to the rectanguler mark of gear so that the triangle mark can indicate the sideward direction.

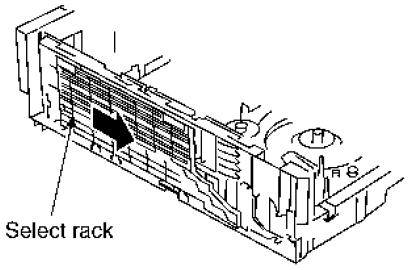


(Step 9)
Install the select rack to mechanism base.
(Checking items before the installation.
1. Check select guide is completely in lowest position.
2. Check its phase of select drive gear is correct position.(Rectangle/Triangular mark)(Refer to Step 8))

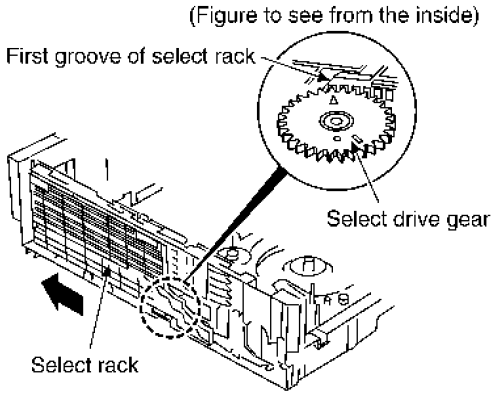
1. Put a select rack down with it fitted to its circumference of mechanism base.



2. Slide the select rack with it's pushing to a little right direction and install it.

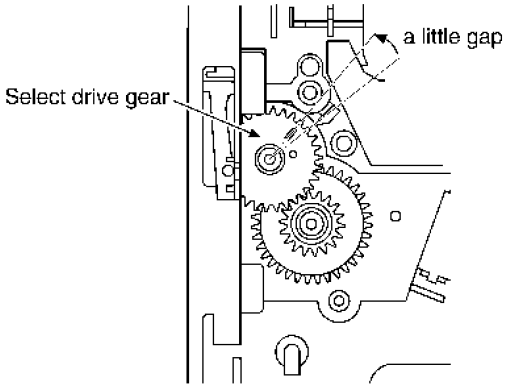


(Figure to see from the inside)

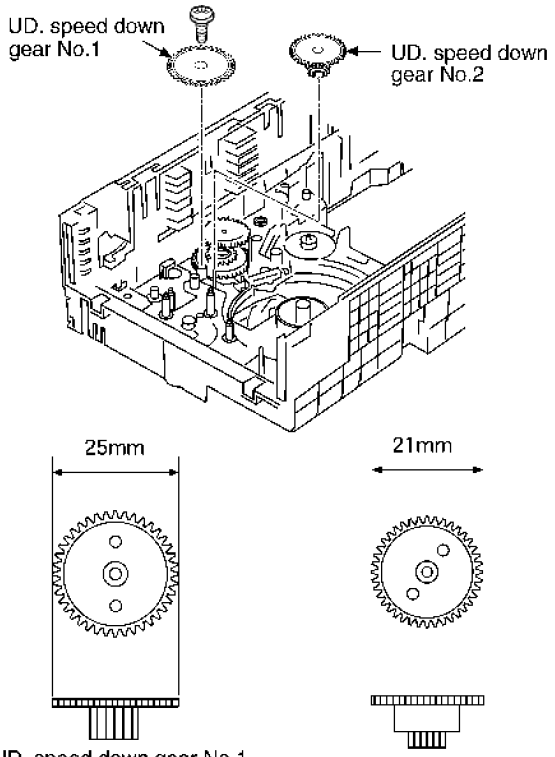


3. Check whether its end of triangular mark is in first groove of select rack, after fixing.
4. After insertion of select rack, continue the following work until the indication that it gose forward. And, all the while it must be checked that select rack is in the extreme end.

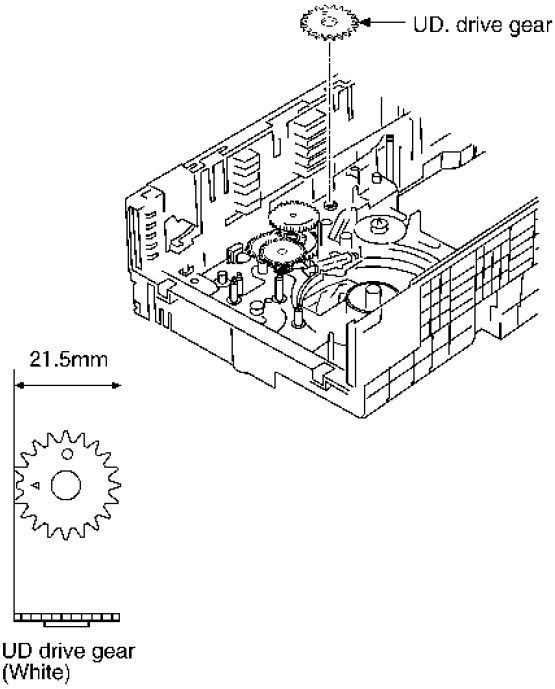
5. After insertion the select rack, the marking of select gear has a little gap when it is in the extreme end.



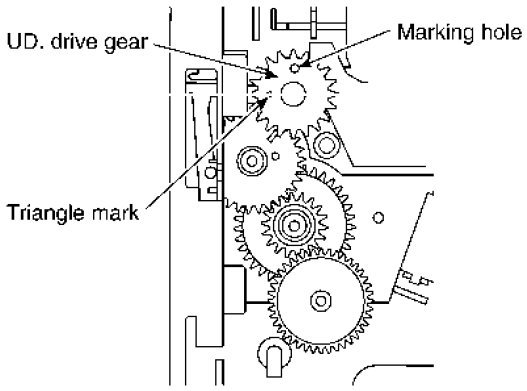
(Step 10)
Install the UD. speed down gear No.1 and UD. speed down gear No.2.



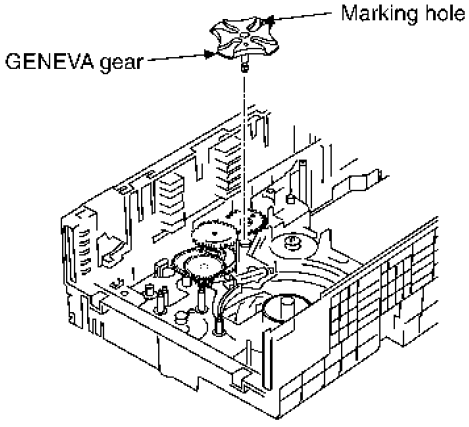
(Step 11)
Install the UD. drive gear to mechanism base.

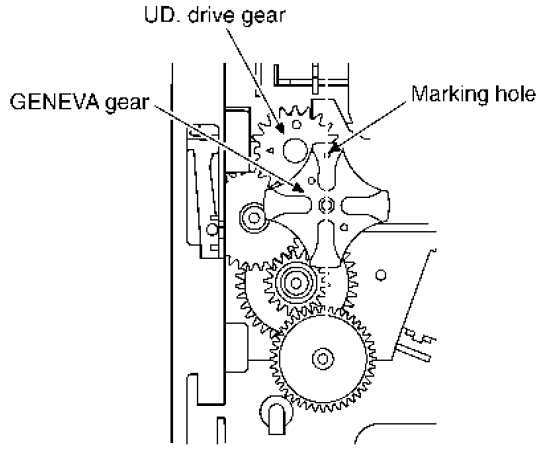


(Step 12)
Insert the UD. drive gear with its marking hole upward. At that time, its triangle mark should be sideways.

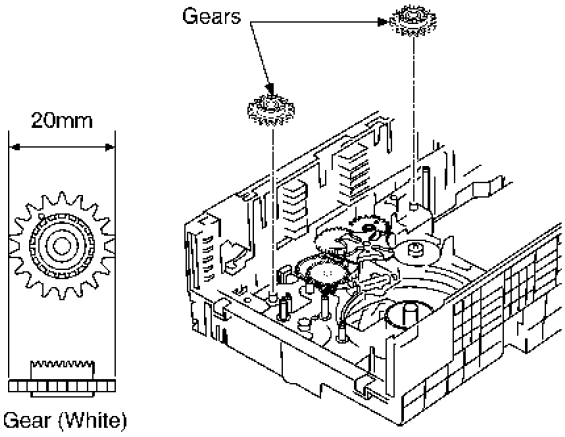


(Step 13)
Insert the GENEVA gear with its marking hole upward, and fix it by 2 hooks on bottom of mechanism base. At that time, UD. drive gear mustn't be moved.

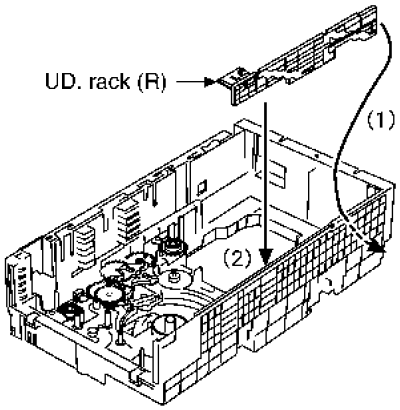




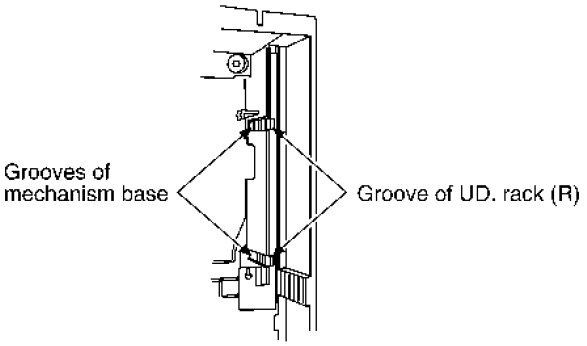
(Step 14)
Install the 2 gears to mechanism base.

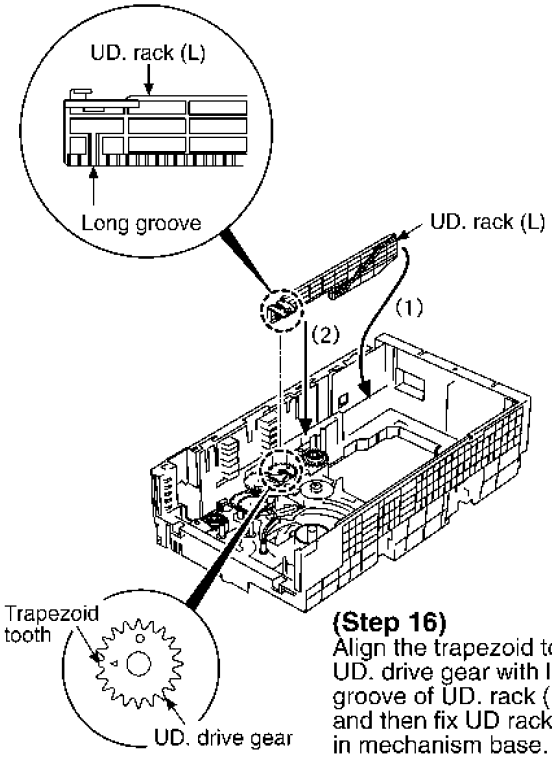


(Step 15)
Insert the UD. rack (R) to (2) from arrow (1).



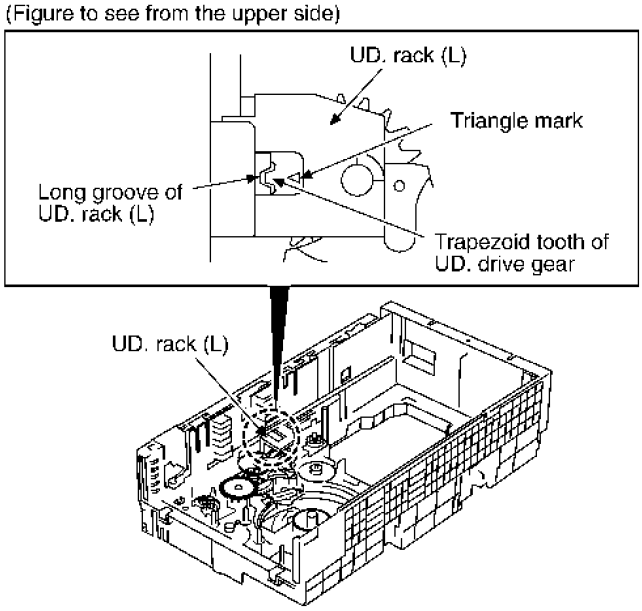
NOTE:
Put a groove of the mechanism base to the UD. rack (R).



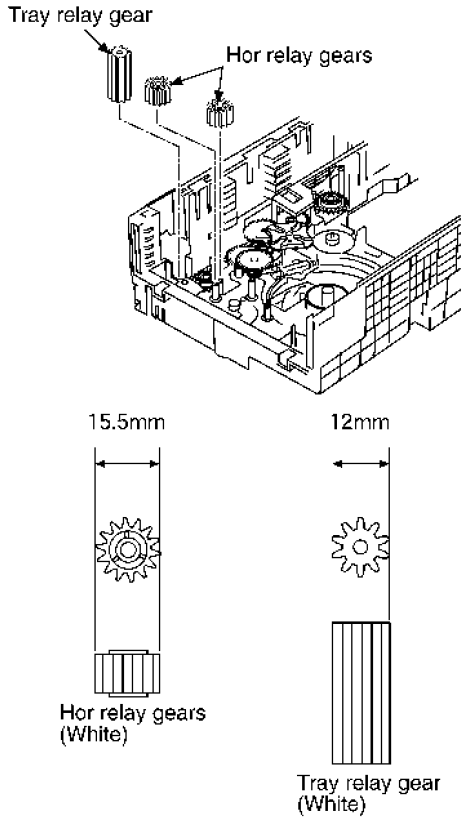


(Step 16)
Align the trapezoid tooth of UD. drive gear with long groove of UD. rack (L), and then fix UD rack (L) in mechanism base.

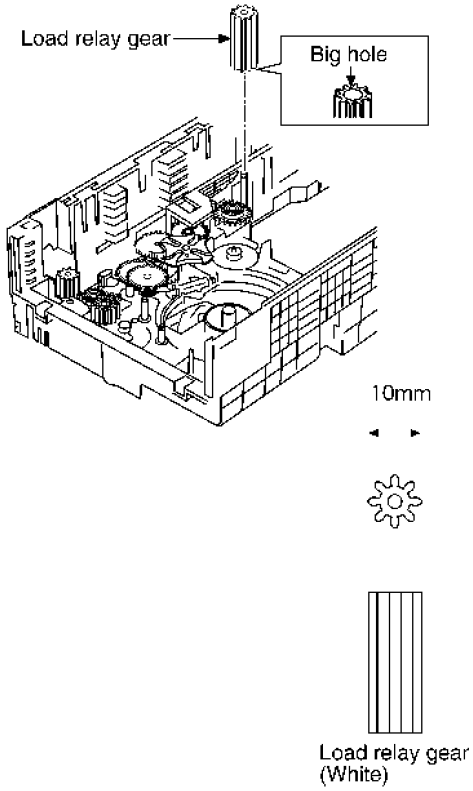
(Figure to see from the upper side)



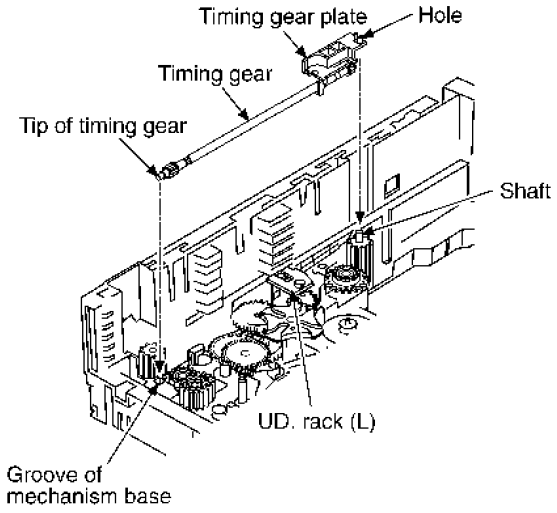
(Step 17)
Install the tray relay gear and 2 hor relay gears.



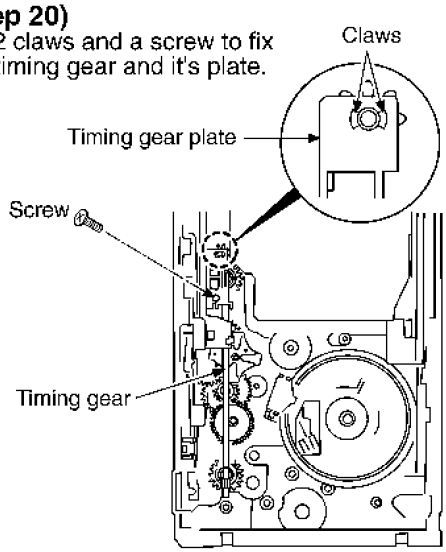
(Step 18)
Install the load relay gear to mechanism base.
(Fit load relay gear with its big hole downward.)



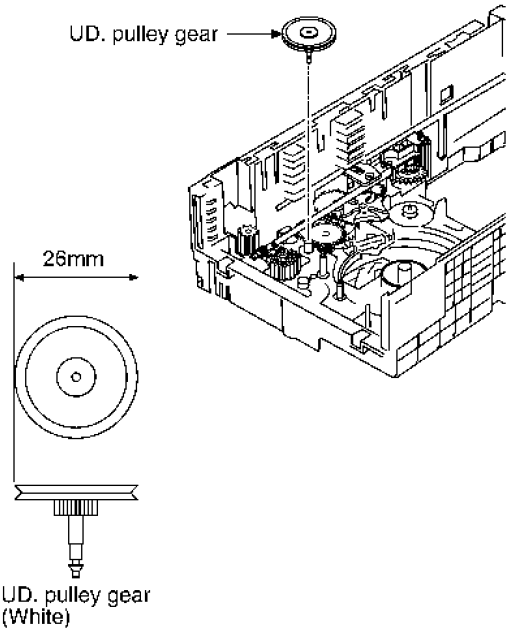
(Step 19)
Put on the top of the timing gear, then, install the timing gear and it's plate.
At that time avoid the UD. rack (L).



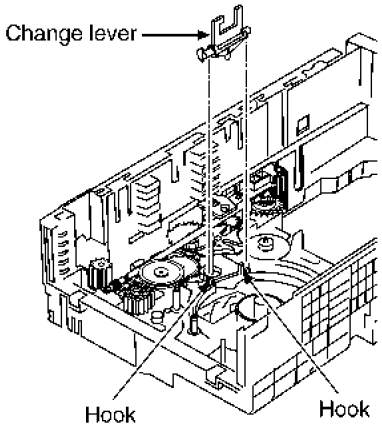
(Step 20)
Fix 2 claws and a screw to fix the timing gear and it's plate.



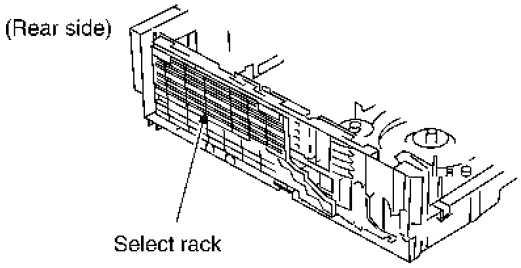
(Step 21)
Install the UD. pulley gear to mechanism base.

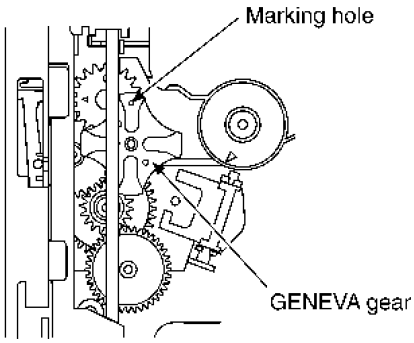


(Step 22)
Insert the change lever with it upright.

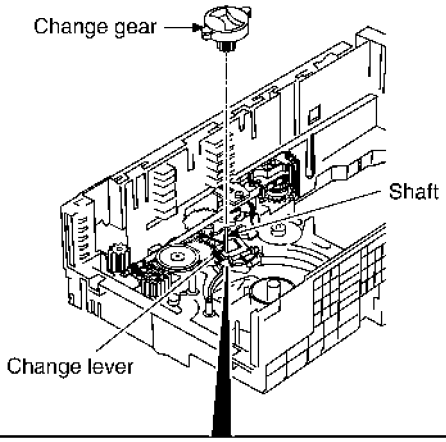


(Step 23)
Be sure the notice of bellow before fixing the change gear.
1. Select track should be in the rear of mechanism base.
2. Its hole of GENEVA gear should turn up.

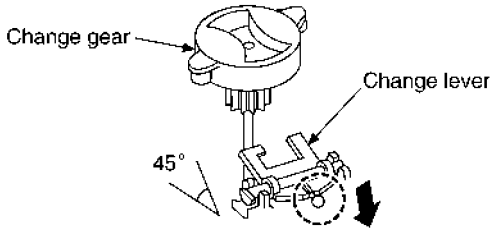




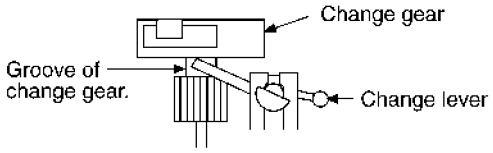
(Step 24)
Install the change gear as insert the change lever into the groove of change gear.



1. Pushing the ○ part and pull up the change lever 45°.

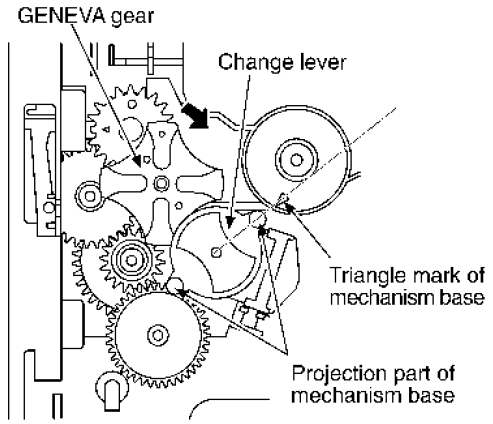


2. Insert the change lever into the groove of change gear.

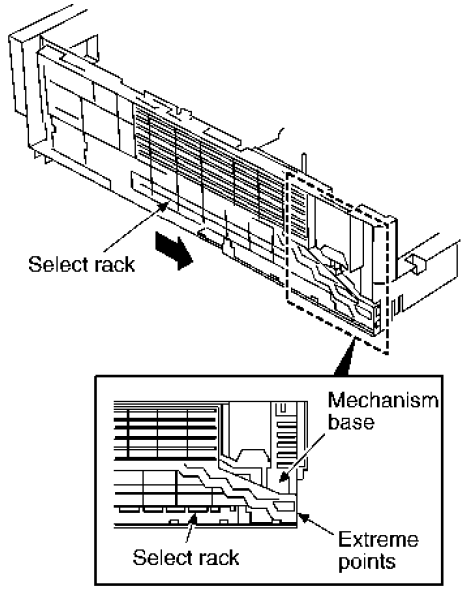


(Step 25)
Put change gear down with projection part of change gear fitted to triangle mark of mechanism base, when fixing change gear.
At that time, check change gear is inserted into the groove of change lever.

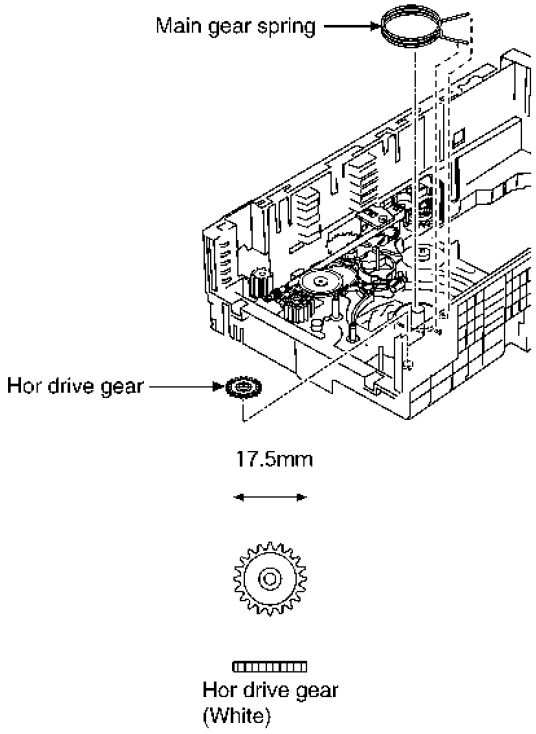
(Step 26)
Lastly, turn GENEVA gear clockwise slightly and drop change gear to mechanism base.



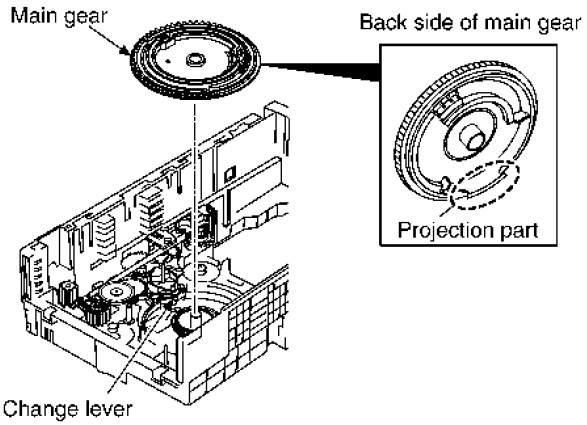
(Step 27)
Move the select rack smoothly forward manually until 2 extreme points of both select track and mechanism base.



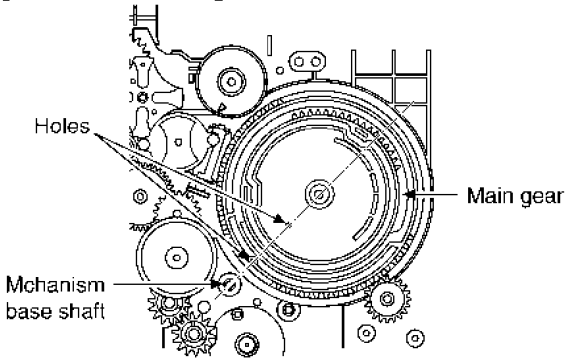
(Step 28)
Install the main gear spring and hor drive gear.



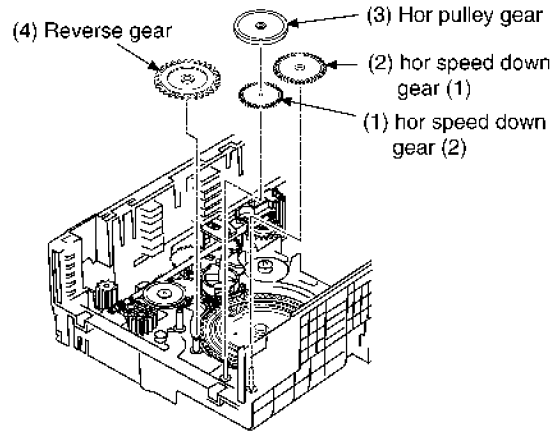
(Step 29)
Don't bring change lever into touch to projection part of main gear, when fixing main gear in mechanism base.

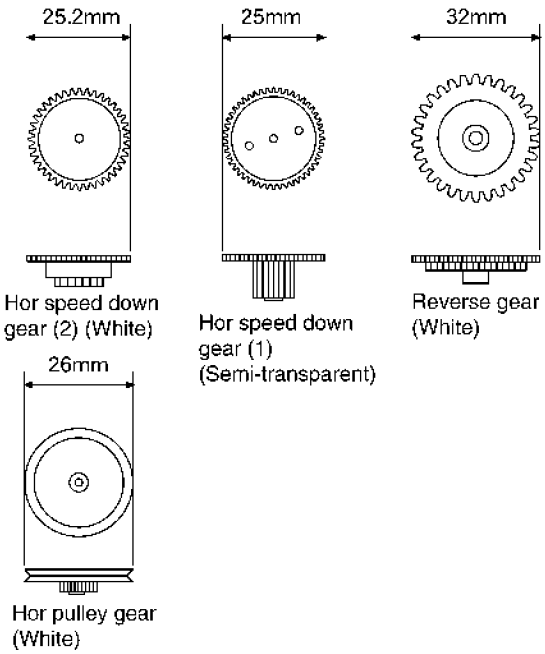


(Step 30)
After that, turn main gear so that 2 holes inside main gear would be in alignment with mechanism base.



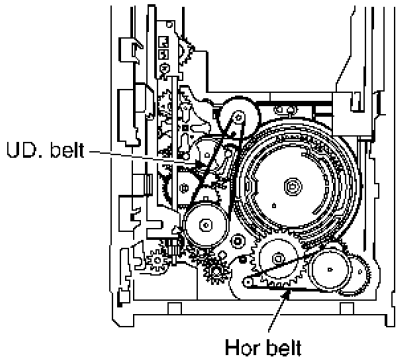
(Step 31)
Install the hor speed down gear (2), hor speed down gear (1), hor pullry gear and reverse gear.



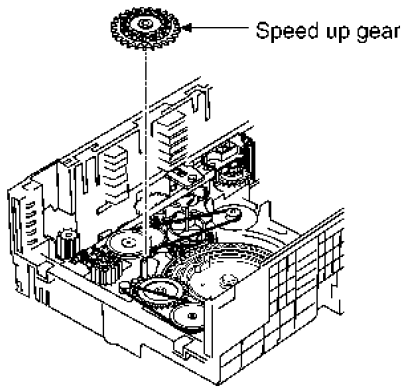


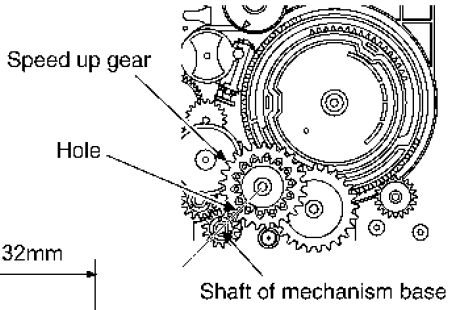
(Step 32)
Install the UD. belt and hor belt.

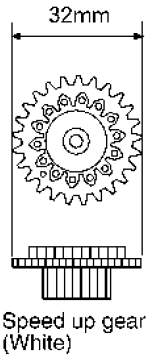
NOTE:
1. Take care not apply the grease to the belt.
2. Install the belt without twist.



(Step 33)
Install speed up gear to its shaft of mechanism base with 2 fitting.

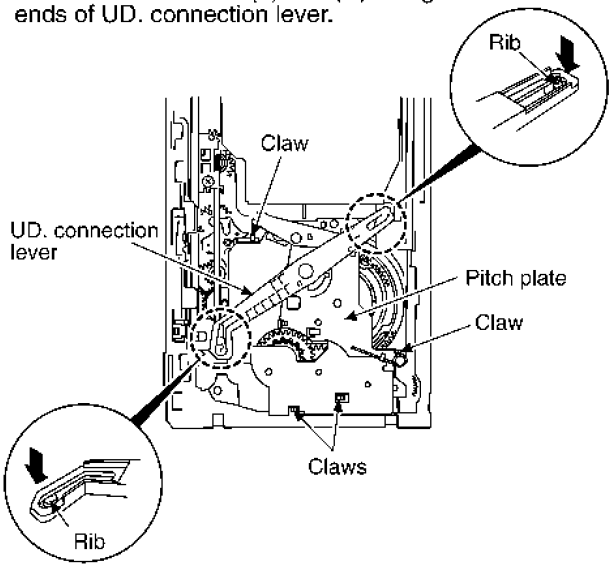




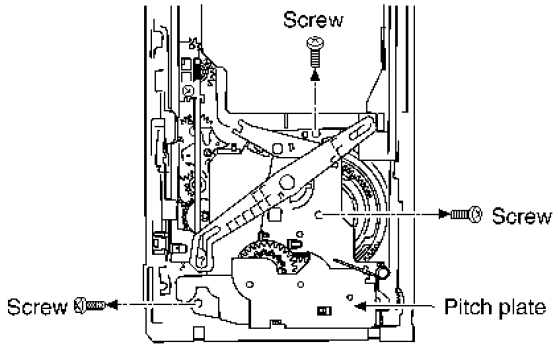


(Step 34)
Install the pitch plate. (The 4 claws should be latched.)

(Step 35)
Fix 2 ribs of UD. rack (L) and (R) into groove of both ends of UD. connection lever.

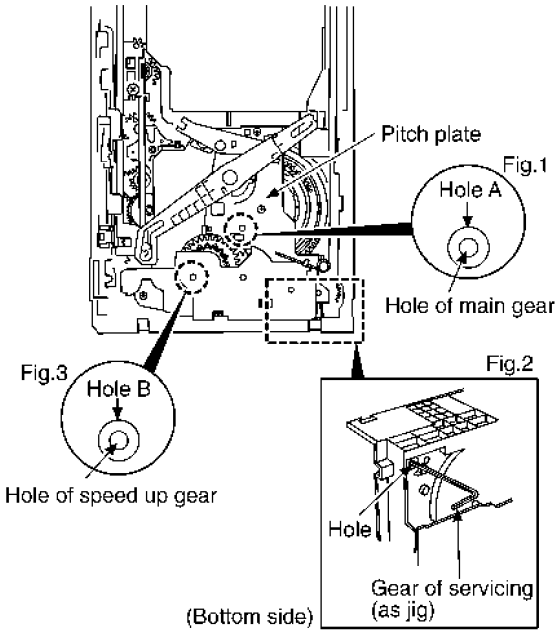


(Step 36)
Fixed it by three screws further.

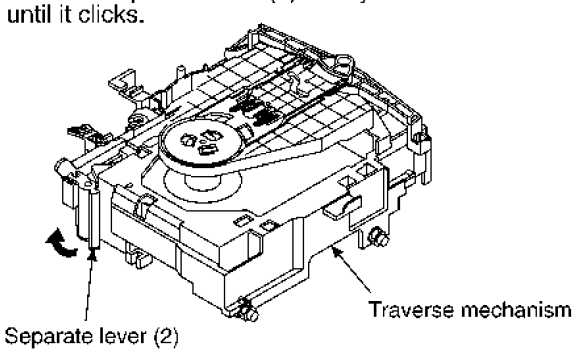


(Step 37)
Be sure the notice of below before fixing the traverse mechanism.

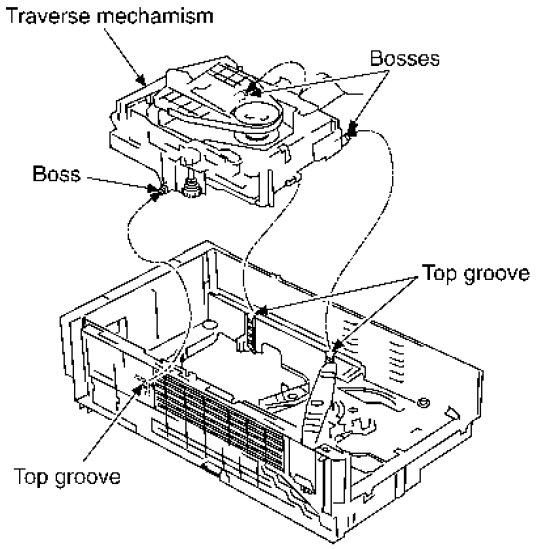
1. Check that 2 holes of both pitch plate and main gear is fitted. (Refer to Fig.1)
   If it's not fitted, put the gear for servicing in the hole of the bottom side and adjust it. (Refer to Fig.2)
2. Check that 2 holed of both pitch plate and speed up gear is futted. (Refer Fig.3)
   If it's not fitted turn the speed up gear to adjust it.



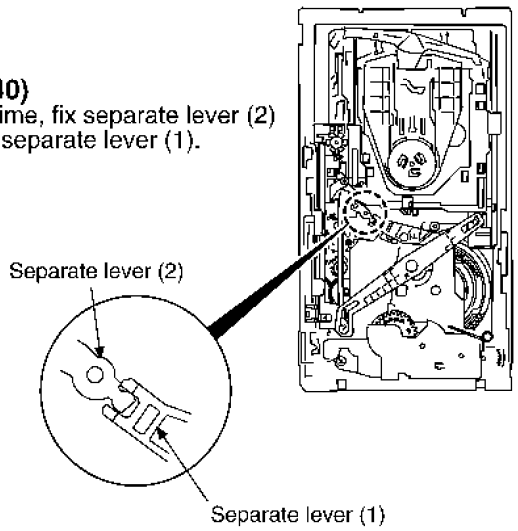
(Step 38)
Turn the separate lever (2) slowly toward left side until it clicks.



(Step 39)
Fix the left boss into the top groove of the UD. rack (L) and fix 2 bosses into the groove of the UD. rack (R).

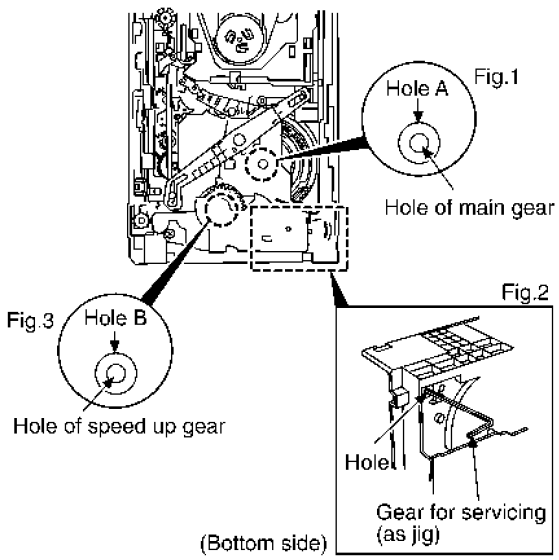


(Step 40)
At that time, fix separate lever (2) into the separate lever (1).

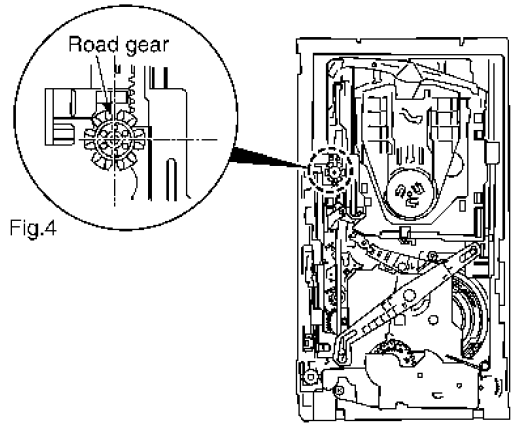


(Step 41)
After the traverse mechanism fixed,
confirm the phase in order below.

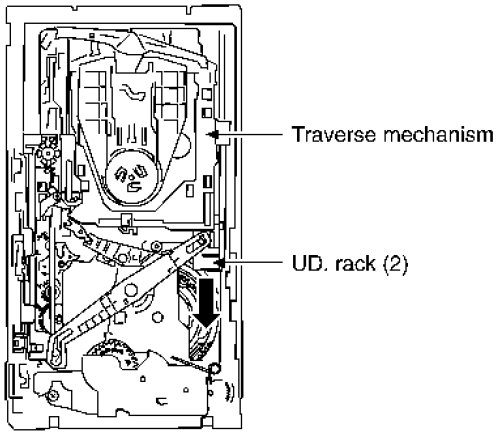
1. Check that 2 holes of both pitch plate and main gear is fitted. (Refer to Fig.1)
   If it's not fitted, put the gear for servicing in the hole of the bottom side and adjust it. (Refer to Fig.2)
2. Check that 2 holed of both pitch plate and speed up gear is futted. (Refer Fig.3)
   If it's not fitted turn the speed up gear to adjust it.



3. In the cog of road gear, the groove with it's cutting halfway set side ward. (Refer to Fig.4)
   Remove the traverse mechanism again when it is not set side ward and install it after adjustment of inserting position.
   NOTE: By this time, do not adjust to rotate the road gear.

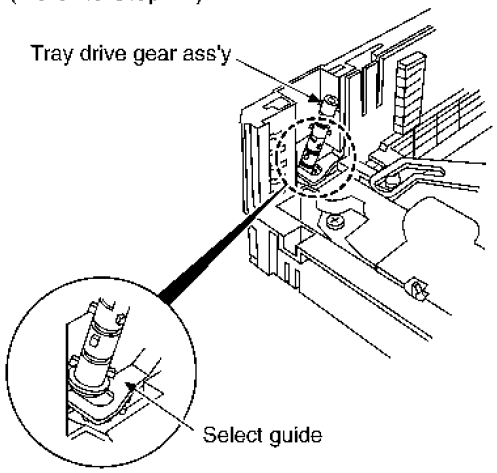


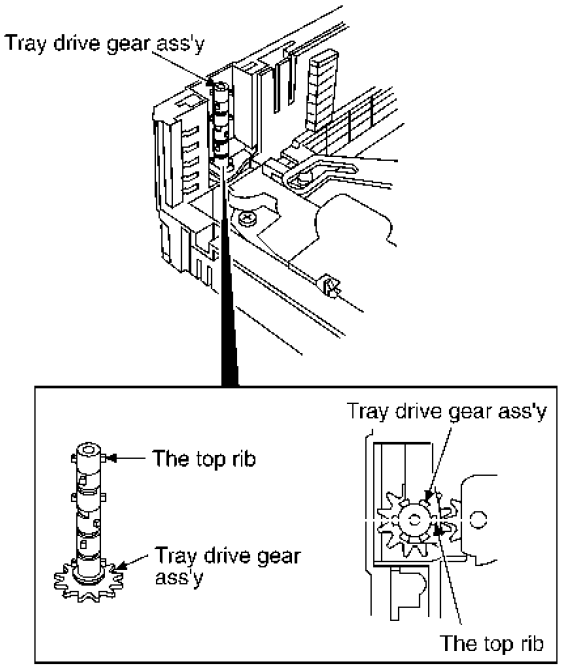
(Step 42)
After insertion of traverse mechanism, pull the UD. rack (R) on this side that each phase is "OK" and then lock the traverse mechanism.



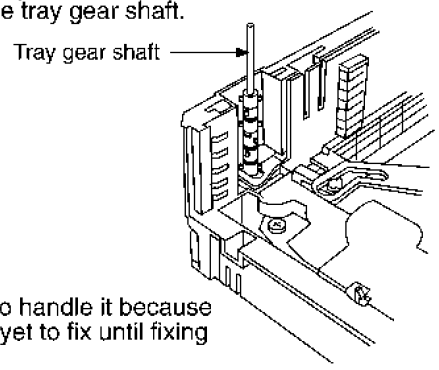
(Step 43)
Install the tray drive gear to select guide.
(Install the top rib of the tray drive gear with side ward.)

NOTE:
Confirm the each phase surely before install the tray drive gear. (Refer to Step 41).



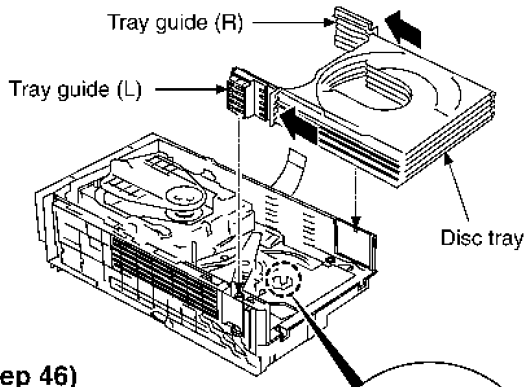


(Step 44)
Insert the tray gear shaft.

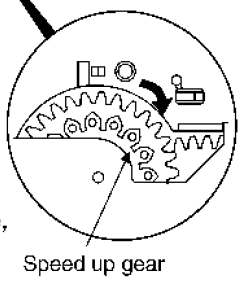


NOTE:
Be careful to handle it because the shaft is yet to fix until fixing top cover.

(Step 45)
Move the tray guide (R) and (L) to direction of arrow that fixed (stopped) it and install 5 pieces of disc tray.

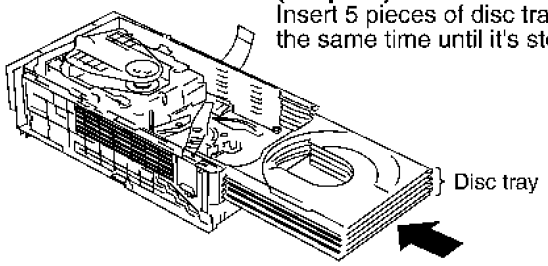


(Step 46)
Confirm that when the disc tray insert the upper side, the speed up gear is rotate clockwise a little.
- When the rotation of speed up gear is not clockwise or rotate, repeat from Step 45.
- Until the speed up gear rorate, repeat from Step 45 and 46.



NOTE:
While keeping all postion, install 5 pieces of disc tray.

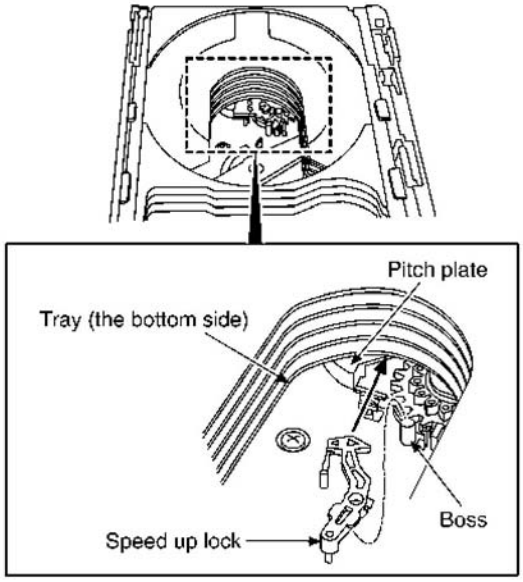
(Step 47)
Insert 5 pieces of disc tray at the same time until it's stop.



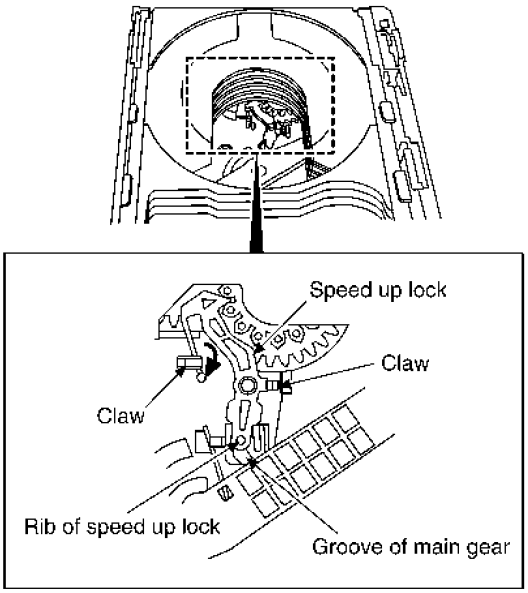
(Step 48)
Turn the traverse side 180°.

(Step 49)
While install the tip of speed up lock beween tray (No.1) of the most lower side and pitch plate for the time being.
(Do not to insert the cog of speed up gear), insert it to boss.

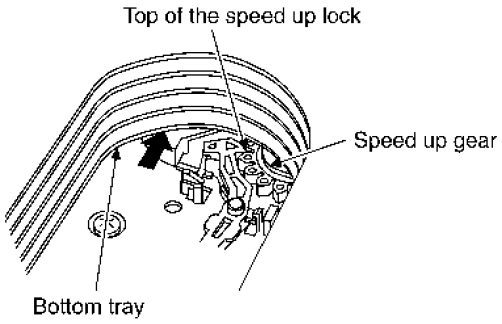
NOTE:
At that time, do not move the tray.
(See the tray the most front side)



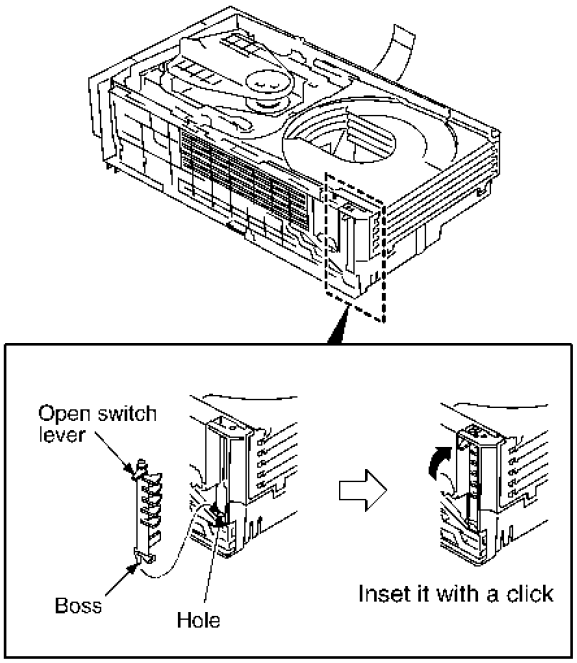
(Step 50)
Insert the rib of speed up lock into a groove of main gear, and lock it with 2 claws.



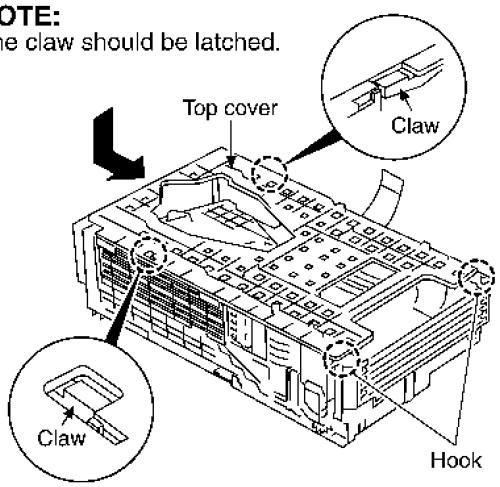
(Step 51)
Move the bottom tray to the arrow while pushing the top of the speed up gear. And insert it to a cog of the speed up gear.



(Step 52)
Install the open switch lever.
(Put the boss into the hole of the mechanism base.)



(Step 53)
Install the top cover.
Fix it into hooks and slide direction to the arrow.
NOTE:
The claw should be latched.

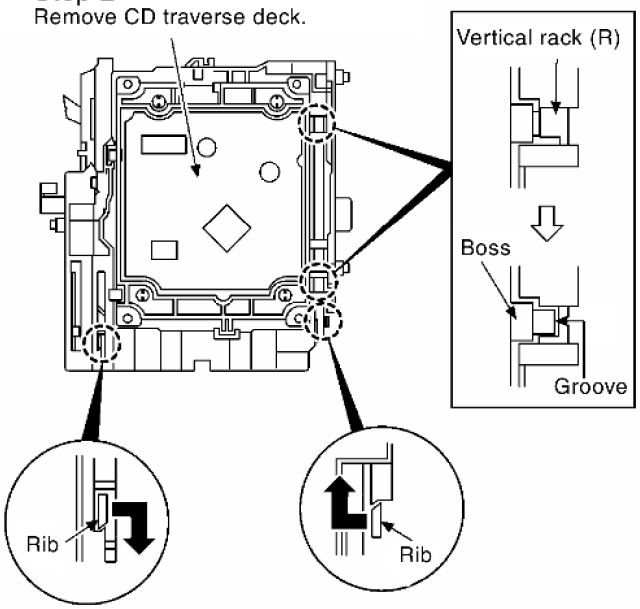


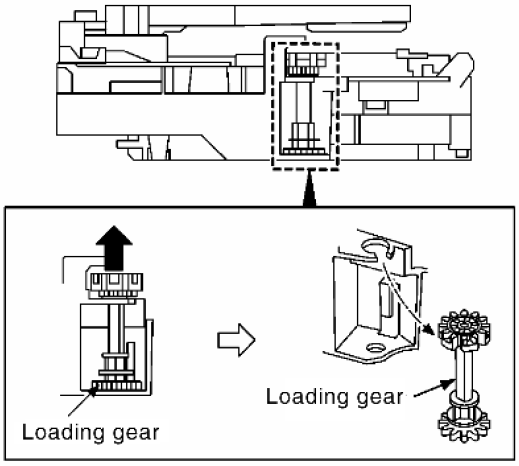
16.19. Disassembly for Traverse Unit

- Follow the **(Step 1)** - **(Step 10)** of item 16.17.2
- Follow the **(Step 1)** - **(Step 4)** of item 16.17.3

Step 1
Shift ribs of both side to the arrow direction.
(A vertical rack (R) slides and groove opens)

Step 2
Remove CD traverse deck.

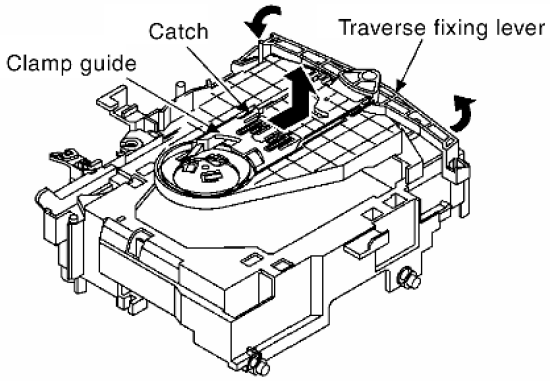




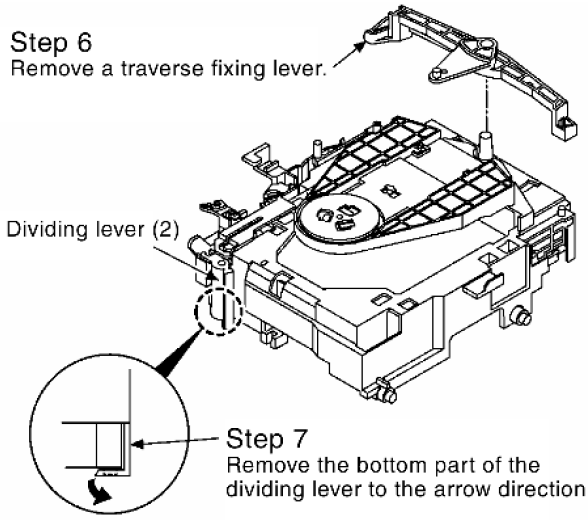
Step 3
Lift a loading gear slightly and pull out.

Step 4
Fixing lever to the arrow direction, rotate a traverse.

Step 5
Remove catch and take out a clamp guide.

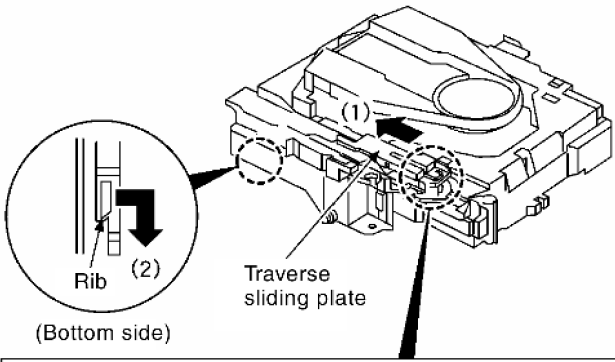


Step 6
Remove a traverse fixing lever.

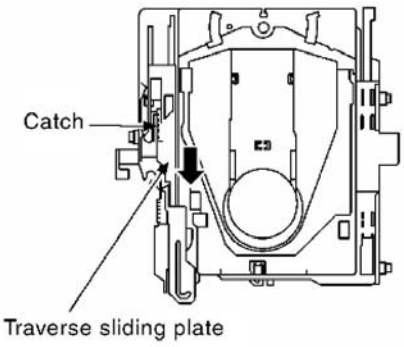


Step 7
Remove the bottom part of the dividing lever to the arrow direction.

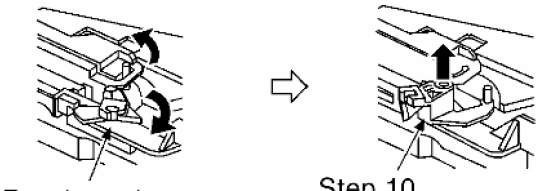
Step 8
Slide a traverse sliding plate to the arrow direction (1), and shift a rib to the arrow direction (2).



Step 11
Holding the catch down, slide a traverse sliding plate to the arrow direction and remove it.



Step 9
Shifting a traverse sliding plate slightly and rotate a tray change lever.

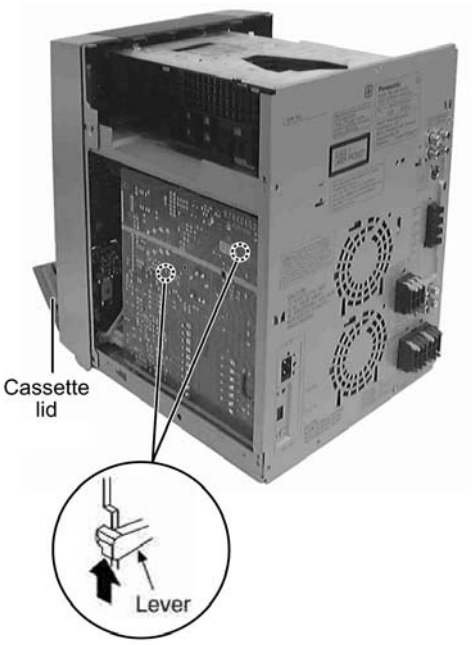


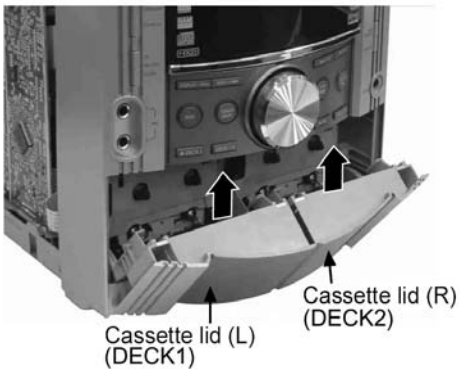
Step 10
Remove a tray change lever.

16.20. Replacement for cassette lid

- Follow the (Step 1) - (Step 2) of Item 16.3 - Disassembly of Top Cabinet

Step 1 Lift up the lever upward, open the cassette deck. (For DECK1 and DECK2)



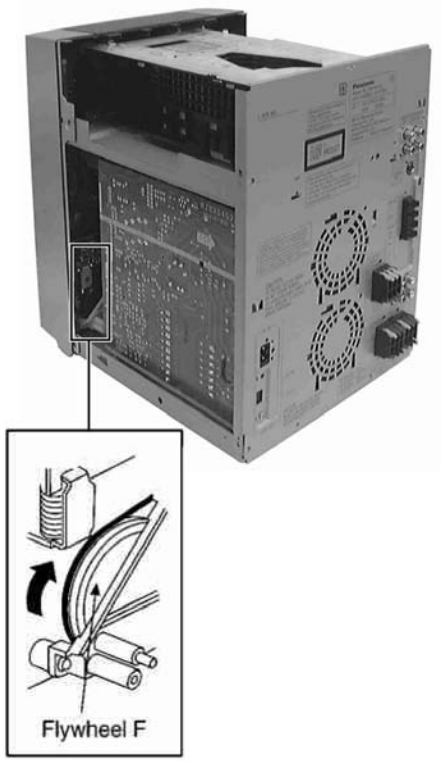


Step 2 Push up the cassette lid (L/R) in the direction of arrow. (For DECK1 and DECK2).

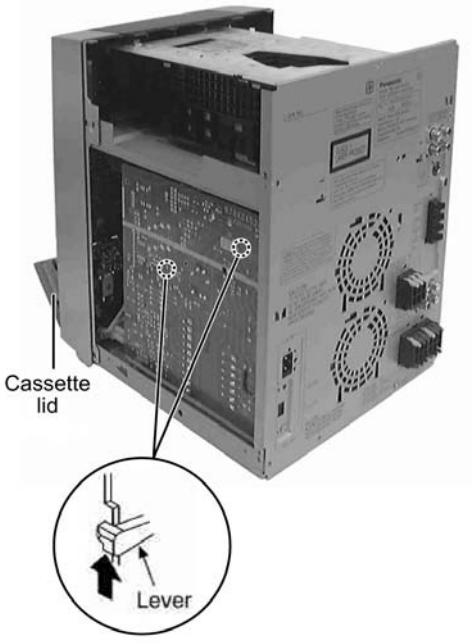
16.21. Rectification for tape jam problem

- Follow the (Step 1) - (Step 2) of Item 16.3 - 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. Remove the cassette tape.



17 Checking for major P.C.Bs

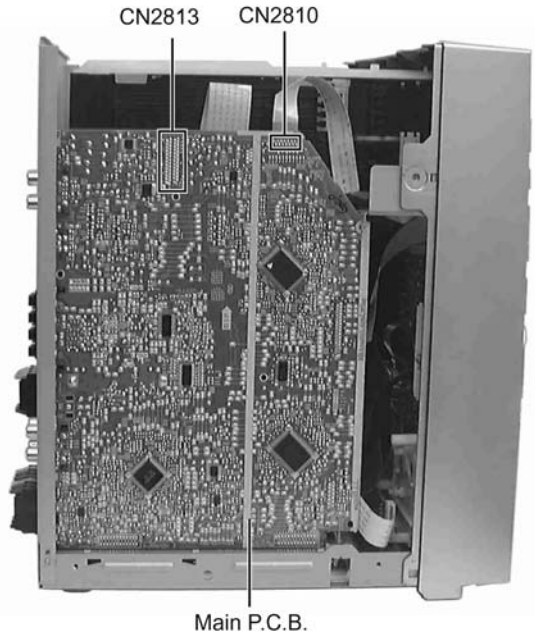
Note:

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

For the disassembling procedures, refer to Section 16.

17.1. Checking of Main P.C.B.

1. Remove Top Cabinet.
2. Disassemble DVD Changer Unit.
3. Connect FFC cables (CN2810 & CN2813) from DVD Changer Unit.

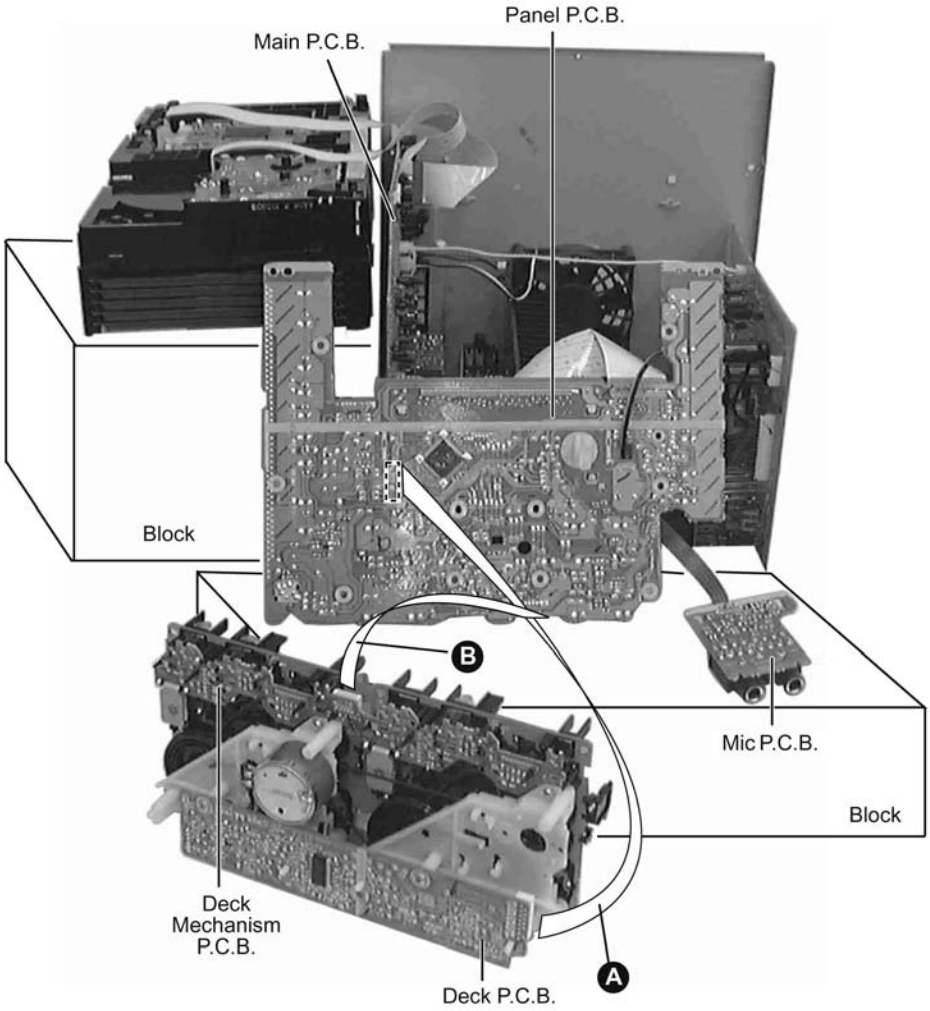


17.2. Checking of Transformer P.C.B.

1. Remove Top Cabinet.
2. Disassemble DVD Changer Unit.
3. Connect FFC cables (CN2810 & CN2813) from DVD Changer Unit.

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

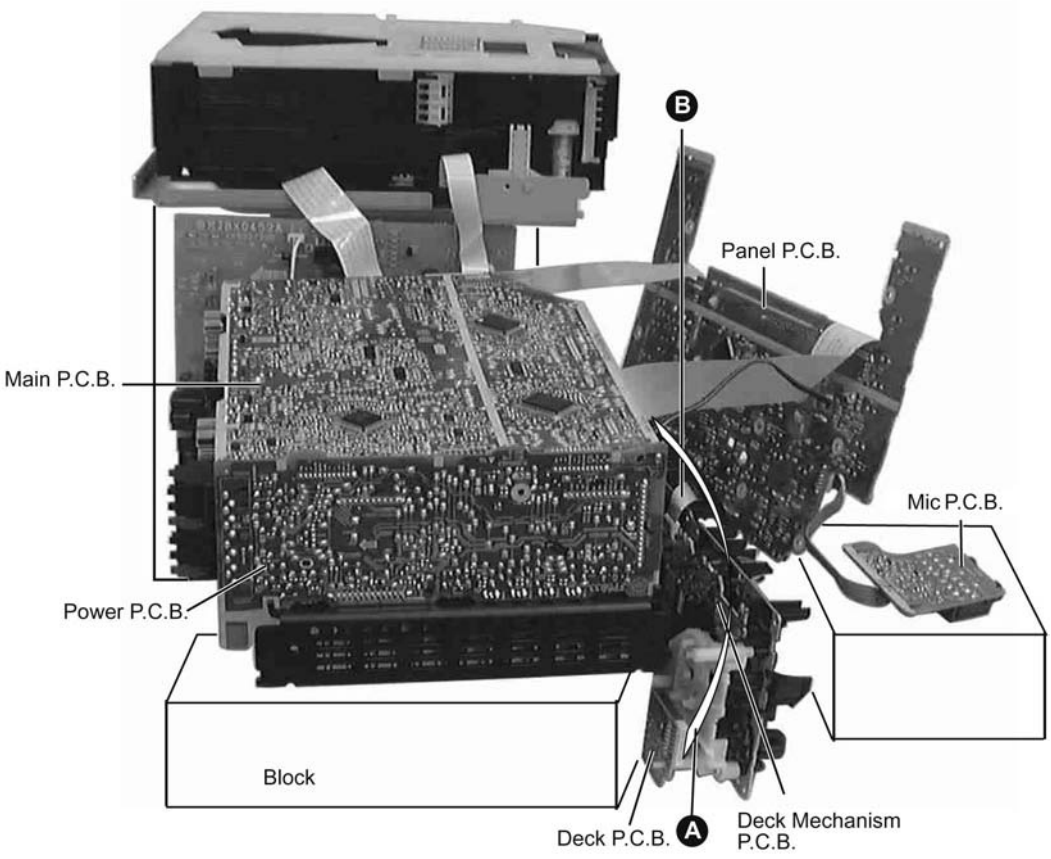
1. Remove Top Cabinet.
2. Disassemble DVD Changer Unit.
3. Remove Front Panel Unit.
4. Remove volume knob and Mic Jack Holder.
5. Disassemble Panel P.C.B.
6. Disassemble Deck Mechanism Unit.
7. Use the extension cable (A) to reconnect (CN1001) Deck P.C.B. and (CP6803) Main P.C.B.
8. Use the extension cable (B) to reconnect (CP6800) 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)

17.4. Checking of Power P.C.B.

1. Remove Top Cabinet and Rear Panel.
2. Disassemble DVD Changer Unit.
3. Remove 4 screws at Transformer P.C.B..
4. Remove 2 screws at heat sink and 1 screw at Power P.C.B.
5. Flip the Power P.C.B.
6. Insulate the Power P.C.B. with insulation material to avoid short circuit.
7. Use the extension cable (A) to reconnect (CN1001) Deck P.C.B. and (CP6803) Main 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)

18 Measurements and Adjustments

18.1. Cassette Deck Section

- Measurement Condition
  - Reverse-mode selector switch: ⟲
  - Tape edit: NORMAL
  - Make sure head, capstan and press roller are clean.
  - Judgeable room temperature 20 ± 5 °C (68 ± 9°F)
- Measuring instrument
  - EVM (DC Electronic voltmeter)
  - Digital frequency counter
- Test Tape
  - Tape speed gain adjustment (3 kHz, -10 dB); QZZCWAT

18.1.1. Head Azimuth Adjustment (Deck 1/2)

Caution:

- Please replace both azimuth adjustment screw and springs simultaneously when readjusting the head azimuth. (shown in Fig. 2) Even if you wish to readjust the head azimuth without replacing the acrews and springs, a fine adjustment to the azimuth screw and spring.
- Please remove the screw-locking bond left on the head base when replacing the azimuth screw.
- If you wish to readjust the head azimuth, be sure to adjust with adhering the cassette tape closely to the mechanism by pushing the center of cassette tape with your finger. (shown in Fig. 3)

1. Playback the azimuth adjustment portion (8 kHz, -20dB) of the test tape (QZZCFM) in the forward play mode. Vary the azimuth adjustment screw until the output of the R-CH (PB OUT-R) are maximized.
2. Perform the same adjustment in the reverse play mode.
3. After the adjustment, apply screwlock to the azimuth adjusting screw.

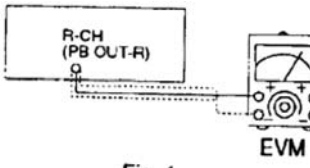


Fig. 1

Fig.2

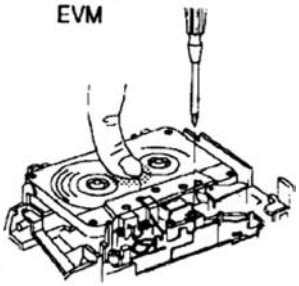


Fig. 3

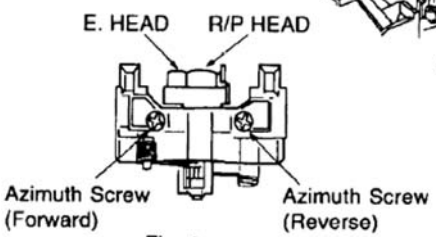


Fig. 4

18.1.2. 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.

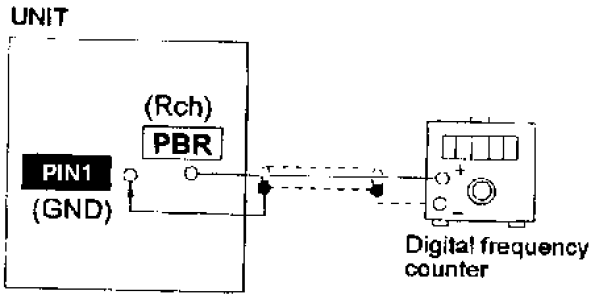


Fig. 1

18.1.3. Bias Voltage Check

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

Bias voltage for Deck 2 14±4mV (Normal)

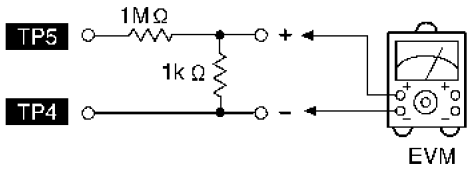


Fig. 2

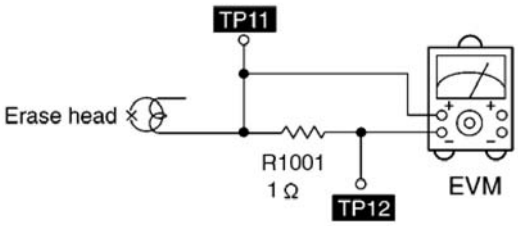


Fig. 3

18.1.4. 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 (l use “REC/STOP” key).
3. Adjust L1002 so that the output frequency is within the standard value.

Standard Value: 89 ~ 110 kHz

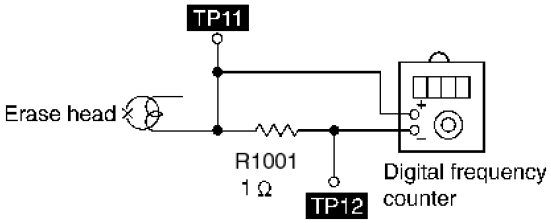


Fig. 4

18.2. Tuner Section

18.2.1. 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.

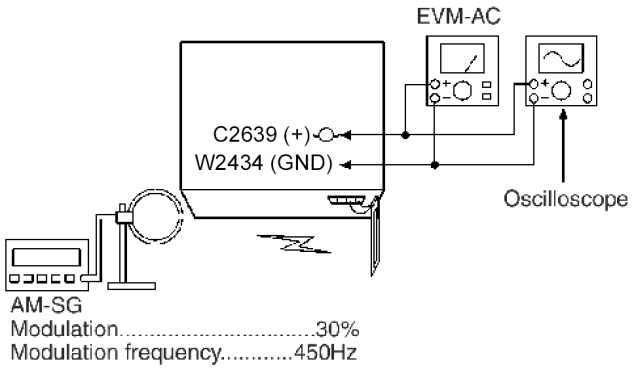


Fig. 5

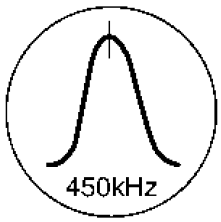


Fig. 6

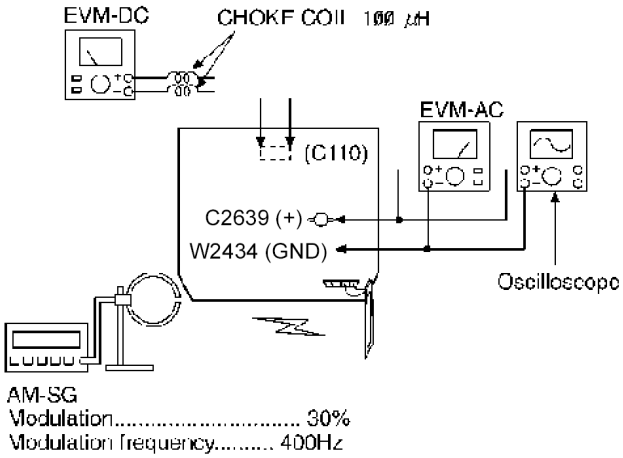


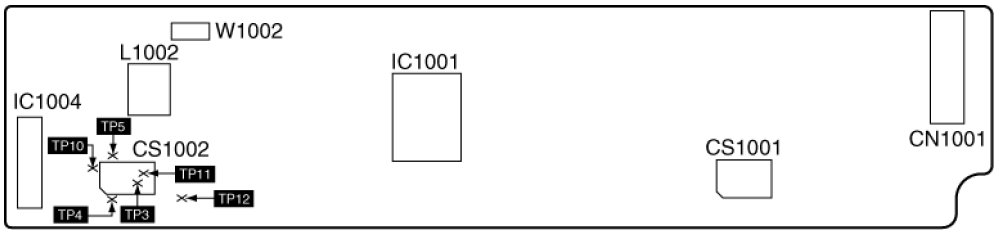
Fig. 7

18.2.2. AM RF Adjustment

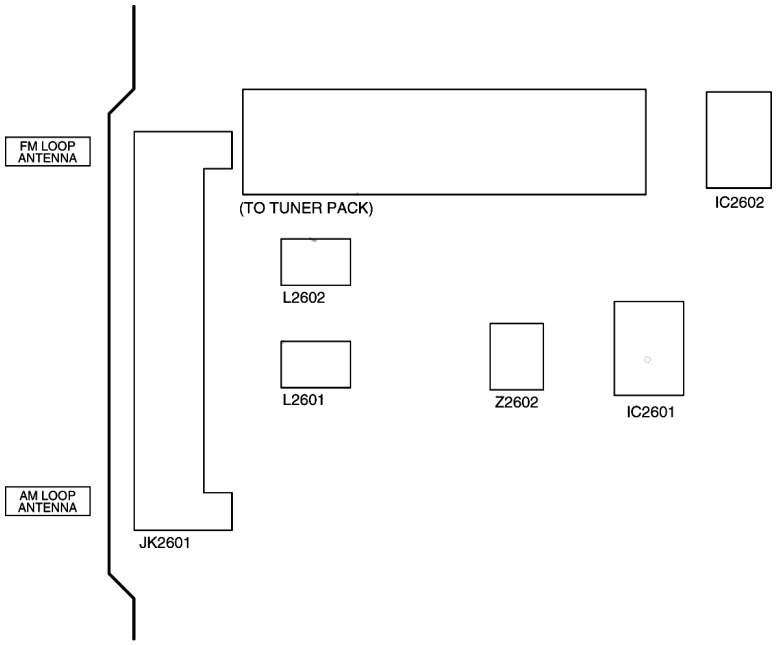
1. Connect the instrument as shown in Fig. 7.
2. Set the unit to AM mode.
3. Set AM-SG to 520kHz.
4. Receive 520kHz in the unit.
5. Adjust L2601 (OSC) so that the EVM-AC is maximized.
6. Set AM-SG to 600Hz.
7. Receive 600Hz in the unit.
8. Adjust L2601 (ANT) so that the EVM-SG is maximized.
9. Set AM-SG to 520kHz.
10. Receive 520kHz in the unit.
11. Adjust L2602 (OSC) so that the EVM-DC value is with 1.1±0.5V.

18.3. Alignment Points

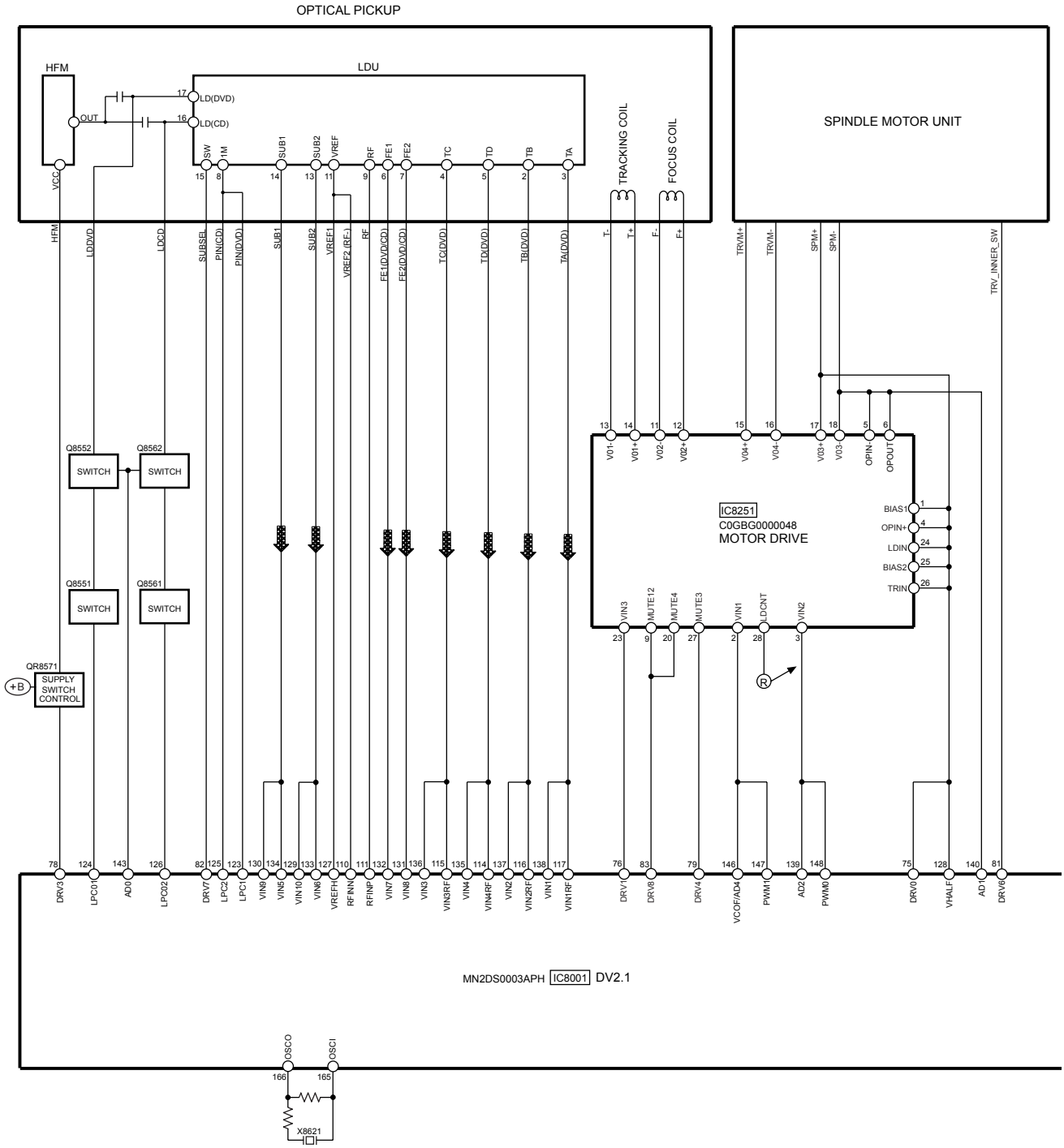
18.3.1. Cassette Deck Section

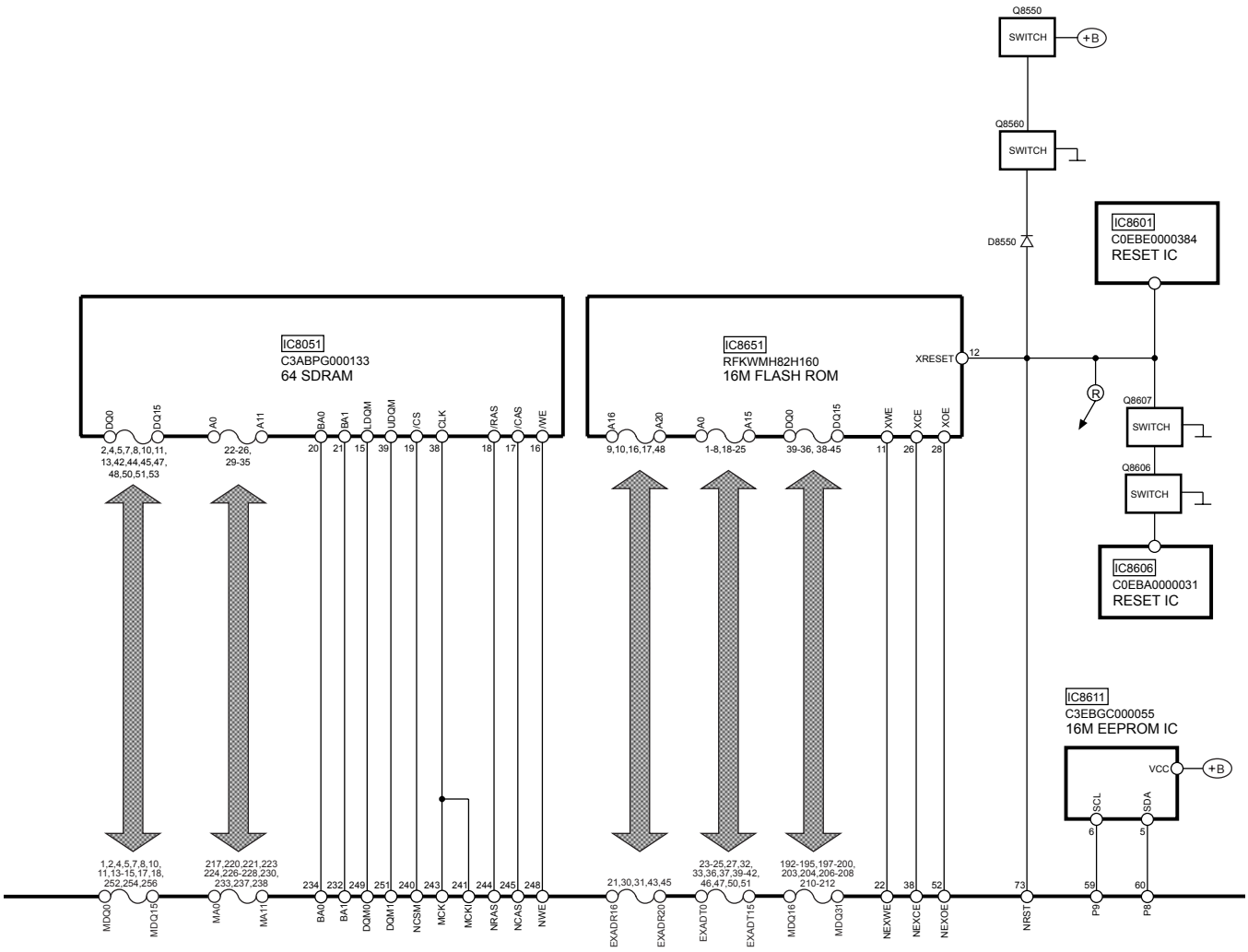


18.3.2. Adjustment Point

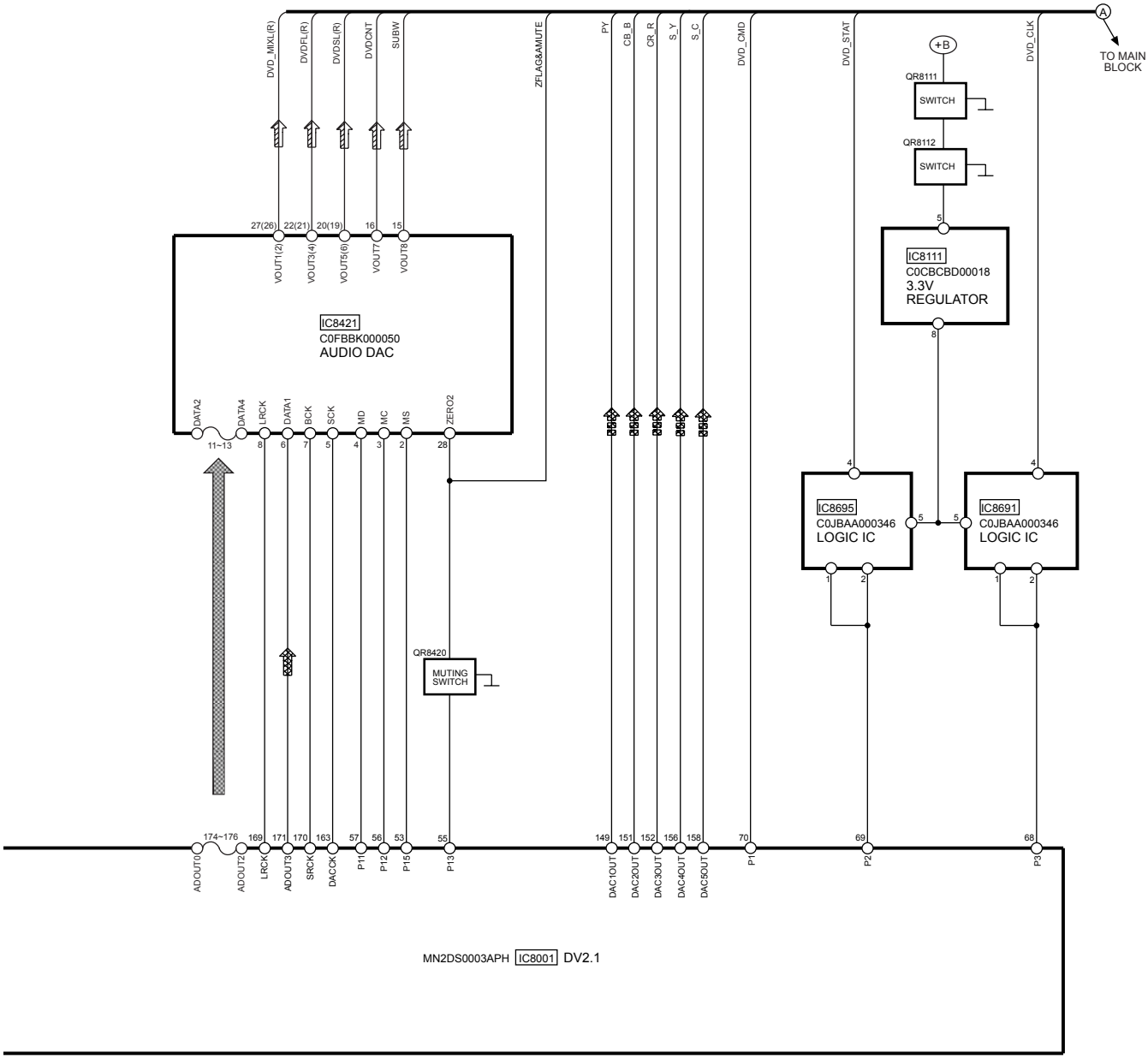


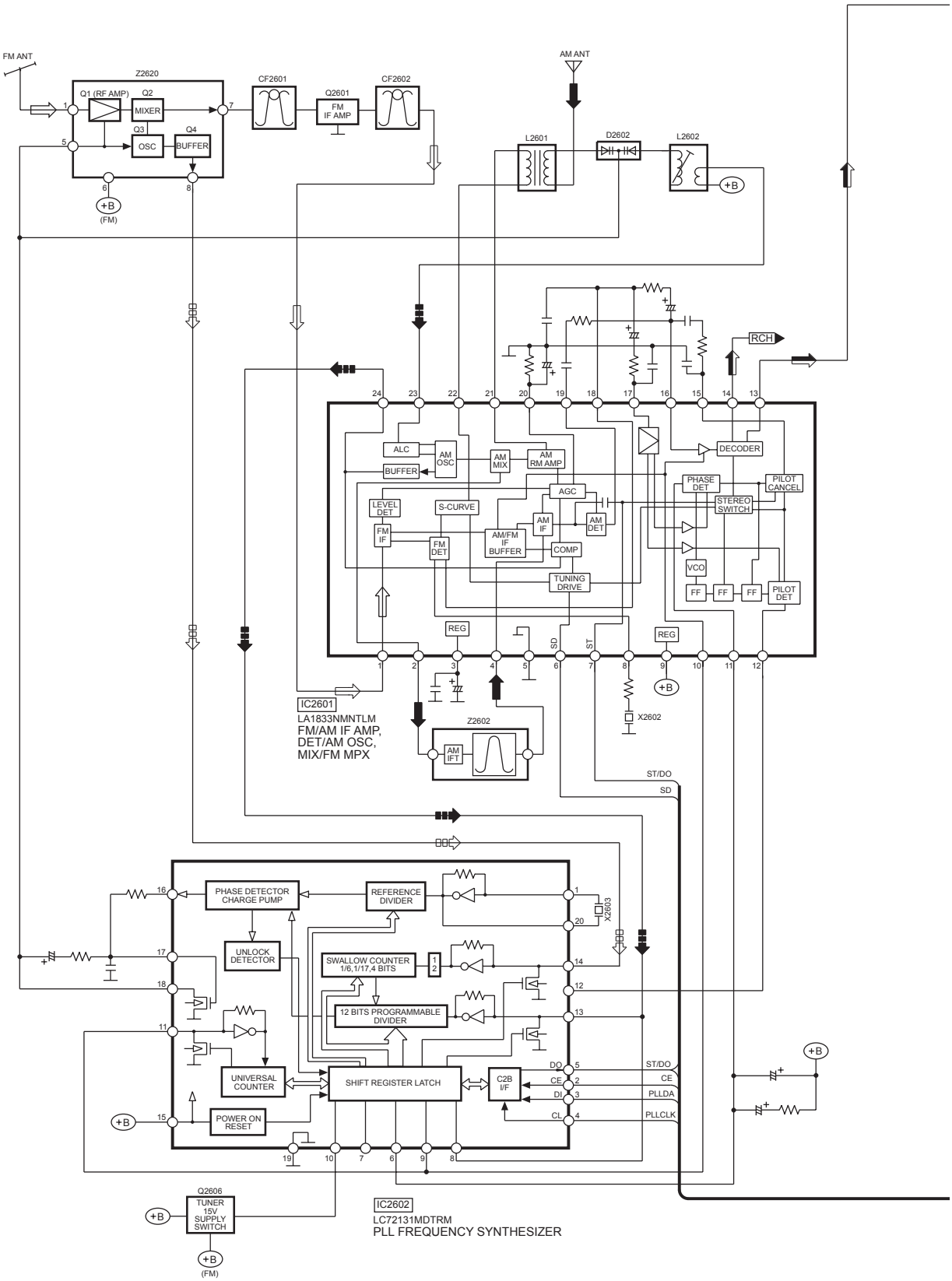
19 Block Diagram

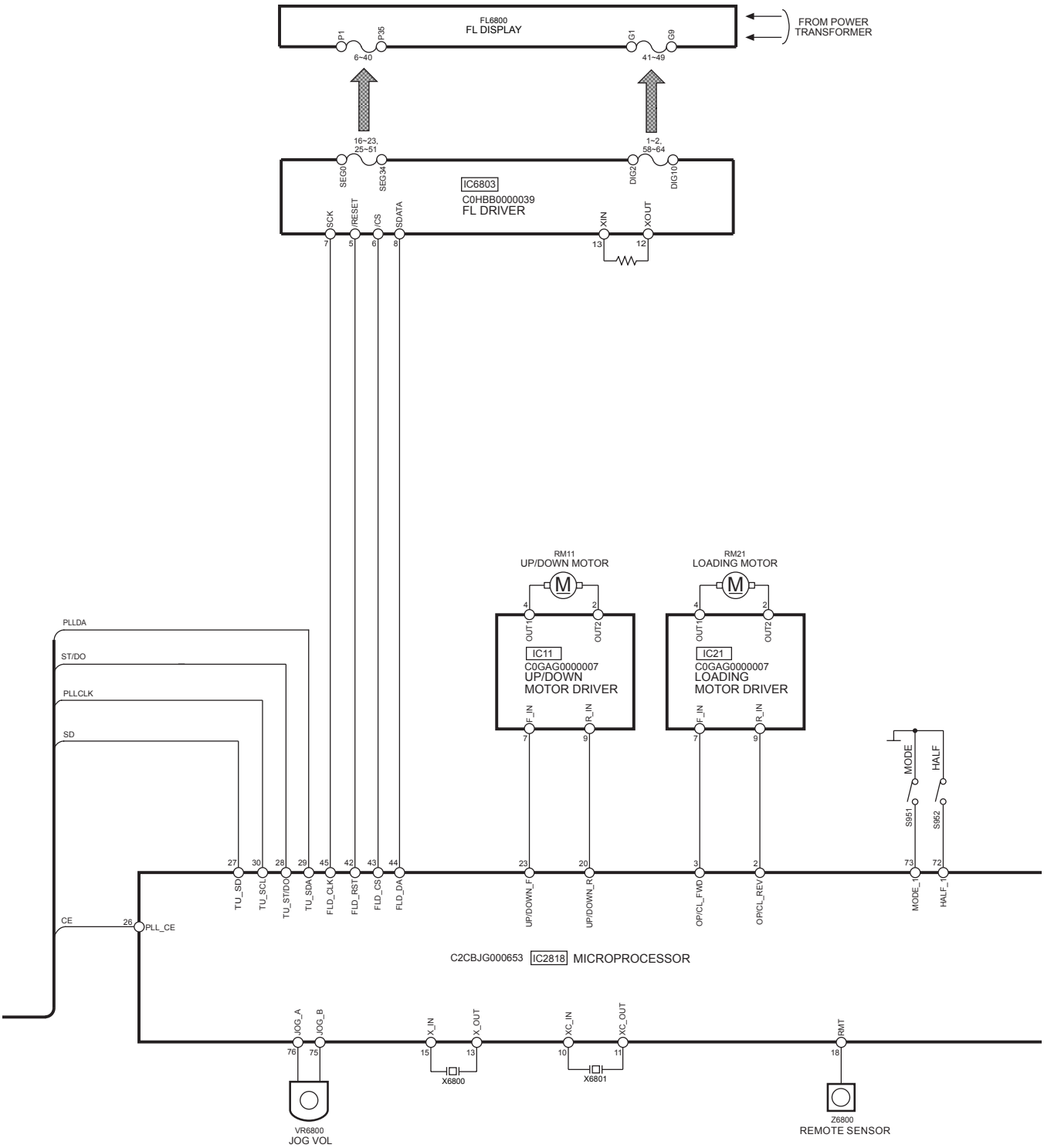


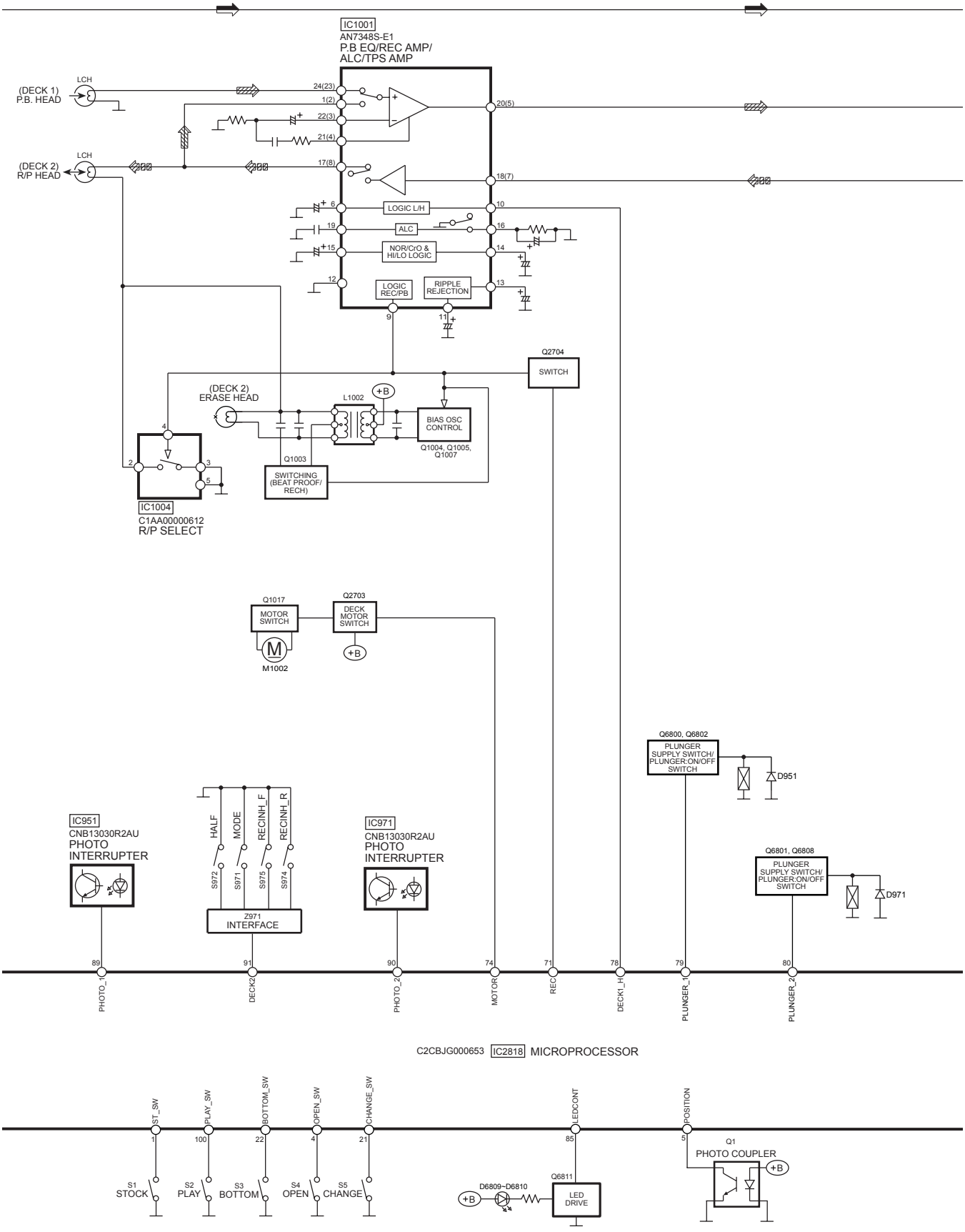


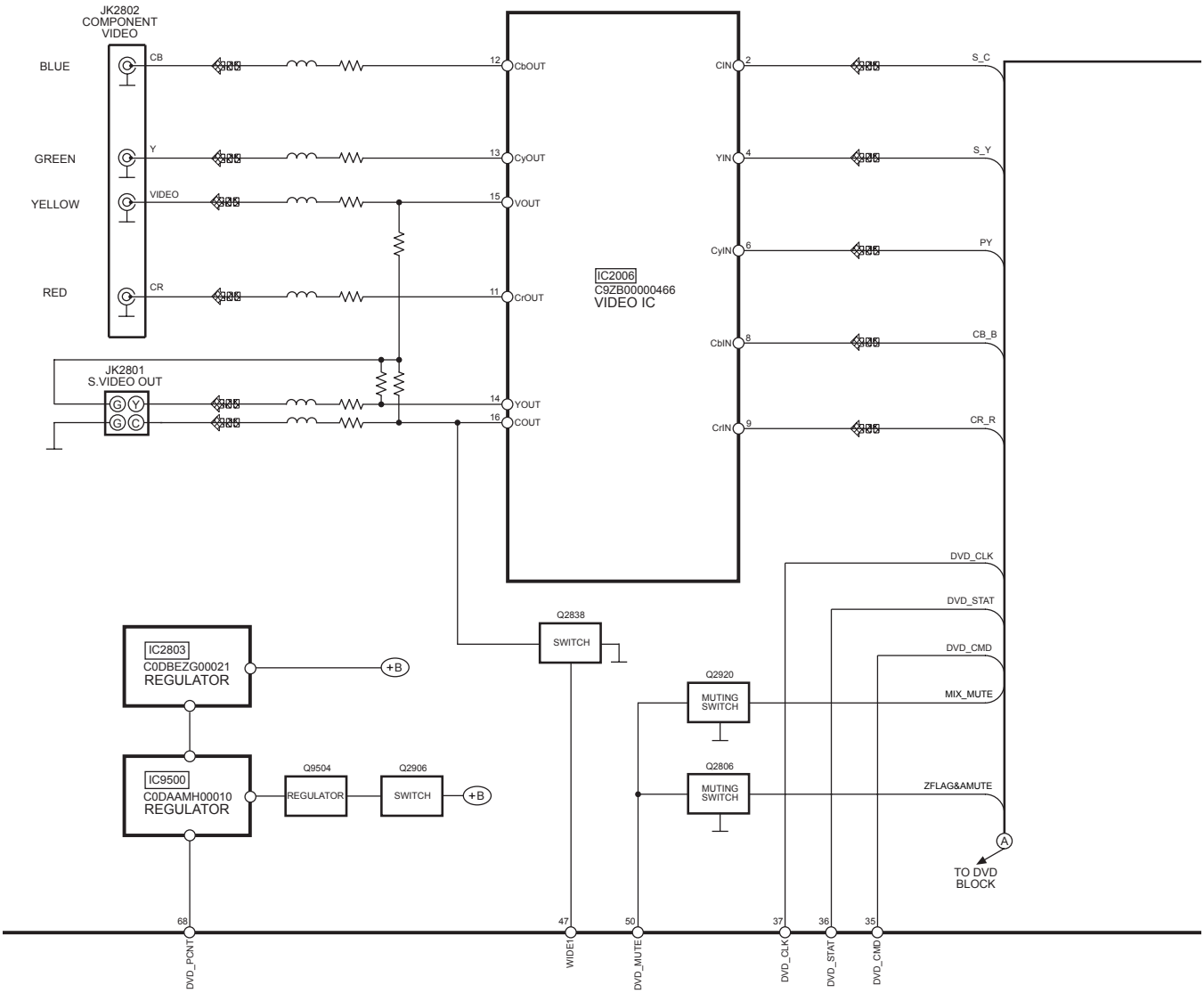
MN2DS0003APH IC8001 DV2.1


DVD_MIXL(R)
DVDFL(R)
DVDSL(R)
DVDCNT
SUBW
ZFLAG&MUTE
PY
CB_B
CR_R
S_Y
S_C
DVD_CMD
DVD_STAT
DVD_CLK
A
TO MAIN BLOCK
+B
QR8111
SWITCH
QR8112
SWITCH
IC8111
C0CBCBD00018
3.3V
REGULATOR
IC8421
C0FBBK000050
AUDIO DAC
VOUT1(2)
VOUT3(4)
VOUT5(6)
VOUT7
VOUT8
DATA2
DATA4
LRCK
DATA1
BCK
SCK
MD
MC
MS
ZERO2
IC8695
C0JBAA000346
LOGIC IC
IC8691
C0JBAA000346
LOGIC IC
QR8420
MUTING SWITCH
ADOUT0
ADOUT2
LRCK
ADOUT3
SRCK
DACCK
P11
P12
P15
P13
DAC1OUT
DAC2OUT
DAC3OUT
DAC4OUT
DAC5OUT
P1
P2
P3
MN2DS0003APH IC8001 DV2.1

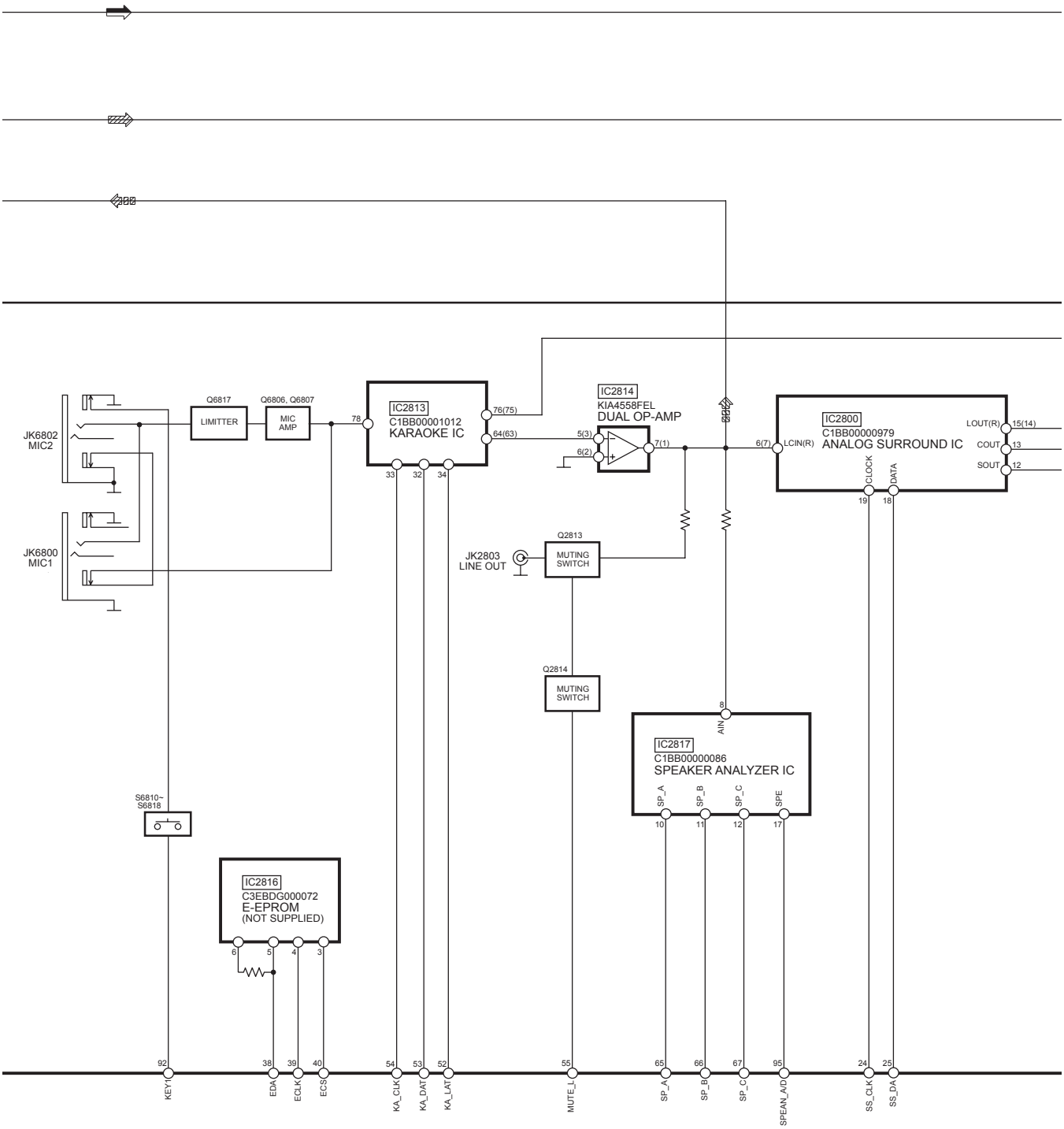

FM ANT
Z2620
Q1 (RF AMP)
Q2
MIXER
Q3
OSC
Q4
BUFFER
CF2601
Q2601
FM IF AMP
CF2602
+B (FM)
AM ANT
L2601
D2602
L2602
+B
RCH
ALC
AM OSC
BUFFER
AM MIX
AM RM AMP
DECODER
PHASE DET
PILOT CANCEL
AGC
LEVEL DET
S-CURVE
STEREO SWITCH
FM IF
FM DET
AM IF
AM DET
AM/FM IF BUFFER
COMP
VCO
TUNING DRIVE
FF
PILOT DET
REG
SD
ST
X2602
IC2601
LA1833NMNTLM
FM/AM IF AMP, DET/AM OSC, MIX/FM MPX
Z2602
AM IFT
ST/DO
SD
PHASE DETECTOR CHARGE PUMP
REFERENCE DIVIDER
X2603
UNLOCK DETECTOR
SWALLOW COUNTER 1/6,1/17,4 BITS
12 BITS PROGRAMMABLE DIVIDER
UNIVERSAL COUNTER
SHIFT REGISTER LATCH
C2B I/F
DO
CE
DI
CL
PLLDA
PLLCLK
POWER ON RESET
Q2606
TUNER 15V SUPPLY SWITCH
IC2602
LC72131MDTRM
PLL FREQUENCY SYNTHESIZER


FL6800
FL DISPLAY
P1
P35
6~40
G1
G9
41~49
FROM POWER TRANSFORMER
16~23, 25~51
1~2, 58~64
SEG0
SEG34
DIG2
DIG10
IC6803
C0HBB0000039
FL DRIVER
SCK
/RESET
/CS
SDATA
XIN
XOUT
7
5
6
8
13
12
RM11
UP/DOWN MOTOR
RM21
LOADING MOTOR
OUT1
OUT2
IC11
C0GAG0000007
UP/DOWN
MOTOR DRIVER
IC21
C0GAG0000007
LOADING
MOTOR DRIVER
F_IN
R_IN
MODE
HALF
S951
S952
PLLDA
ST/DO
PLLCLK
SD
CE
26
PLL_CE
27
30
28
29
45
42
43
44
TU_SD
TU_SCL
TU_ST/DO
TU_SDA
FLD_CLK
FLD_RST
FLD_CS
FLD_DA
23
20
3
2
73
72
UP/DOWN_F
UP/DOWN_R
OP/CL_FWD
OP/CL_REV
MODE_I
HALF_I
C2CBJG000653
IC2818
MICROPROCESSOR
JOG_A
JOG_B
76
75
X_IN
X_OUT
15
13
X6800
XC_IN
XC_OUT
10
11
X6801
RMT
18
VR6800
JOG VOL
Z6800
REMOTE SENSOR

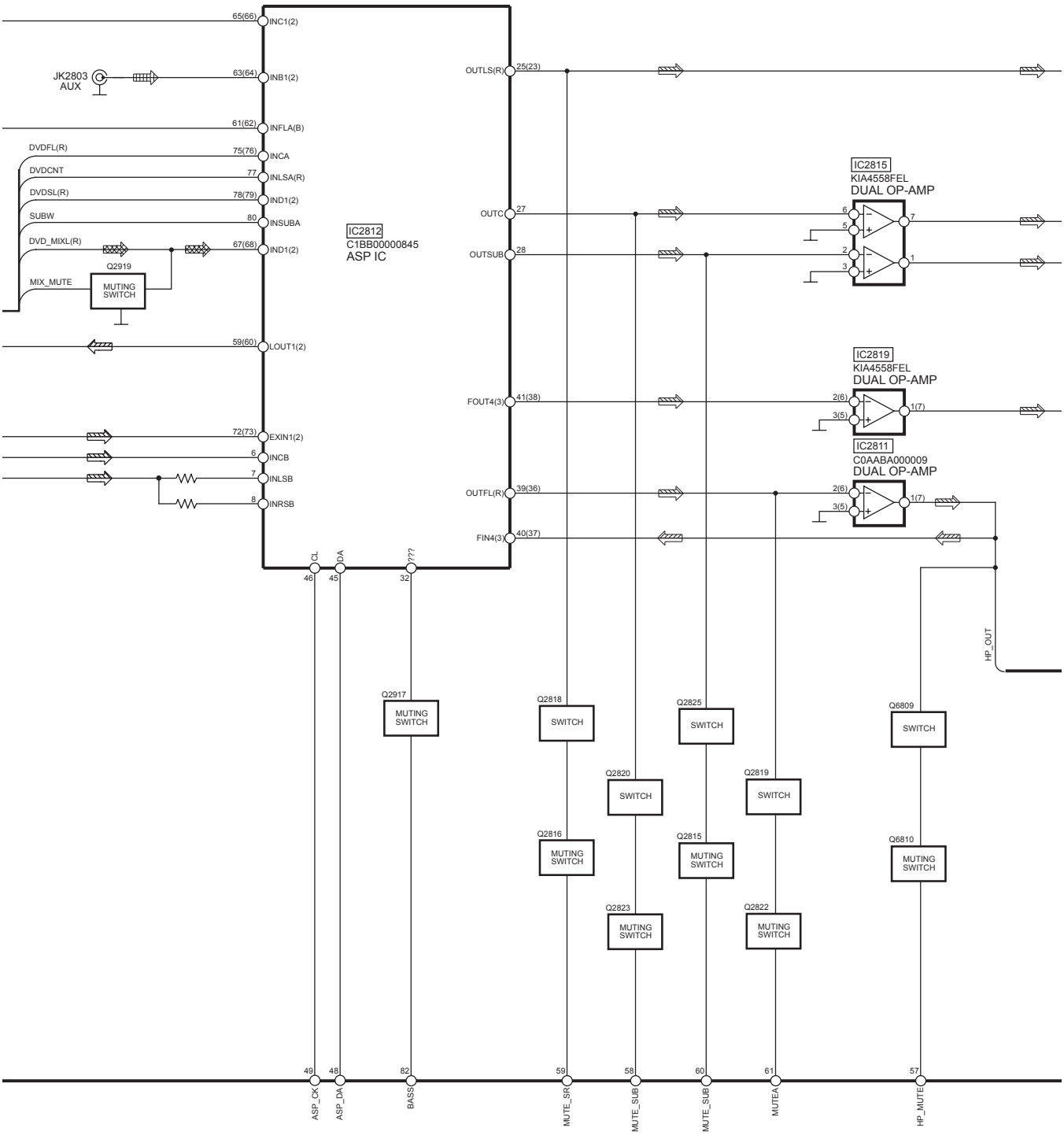

IC1001
AN7348S-E1
P.B EQ/REC AMP/
ALC/TPS AMP
(DECK 1)
P.B. HEAD
(DECK 2)
R/P HEAD
LCH
LOGIC L/H
ALC
NOR/CrO &
HI/LO LOGIC
LOGIC
REC/PB
RIPPLE
REJECTION
Q2704
SWITCH
(DECK 2)
ERASE HEAD
L1002
+B
BIAS OSC
CONTROL
Q1004, Q1005,
Q1007
Q1003
SWITCHING
(BEAT PROOF/
RECH)
IC1004
C1AA00000612
R/P SELECT
Q1017
MOTOR
SWITCH
Q2703
DECK
MOTOR
SWITCH
M1002
Q6800, Q6802
PLUNGER
SUPPLY SWITCH/
PLUNGER:ON/OFF
SWITCH
D951
Q6801, Q6808
D971
IC951
CNB13030R2AU
PHOTO
INTERRUPTER
HALF
MODE
RECINH_F
RECINH_R
S972
S971
S975
S974
Z971
INTERFACE
IC971
CNB13030R2AU
PHOTO
INTERRUPTER
PHOTO_1
DECK2
PHOTO_2
MOTOR
REC
DECK1_H
PLUNGER_1
PLUNGER_2
C2CBJG000653
IC2818
MICROPROCESSOR
ST_SW
PLAY_SW
BOTTOM_SW
OPEN_SW
CHANGE_SW
LEDCONT
POSITION
S1
STOCK
S2
PLAY
S3
BOTTOM
S4
OPEN
S5
CHANGE
D6809~D6810
Q6811
LED
DRIVE
Q1
PHOTO COUPLER



C2CBJG000653 IC2818 MICROPROCESSOR



C2CBJG000653 IC2818 MICROPROCESSOR



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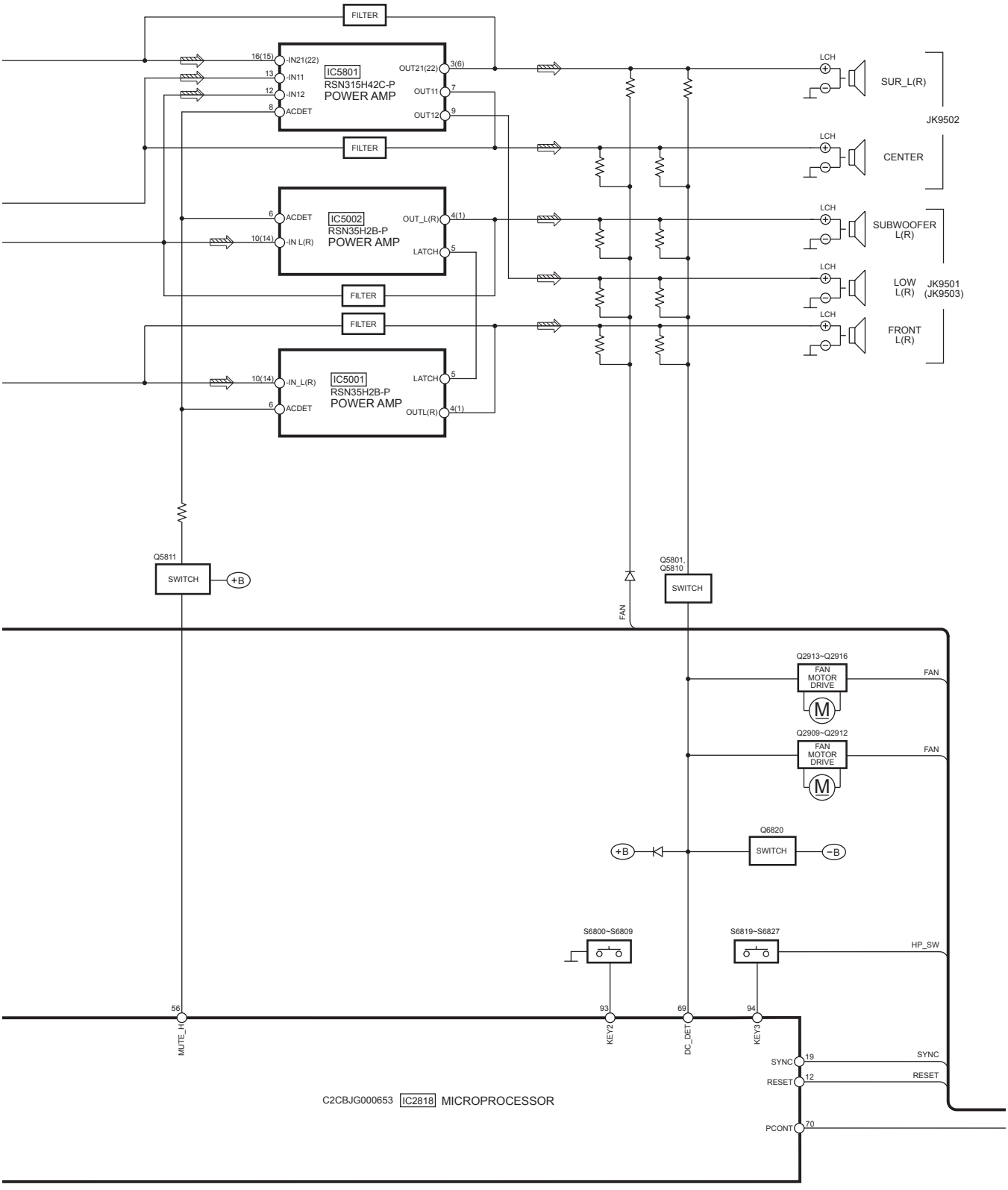
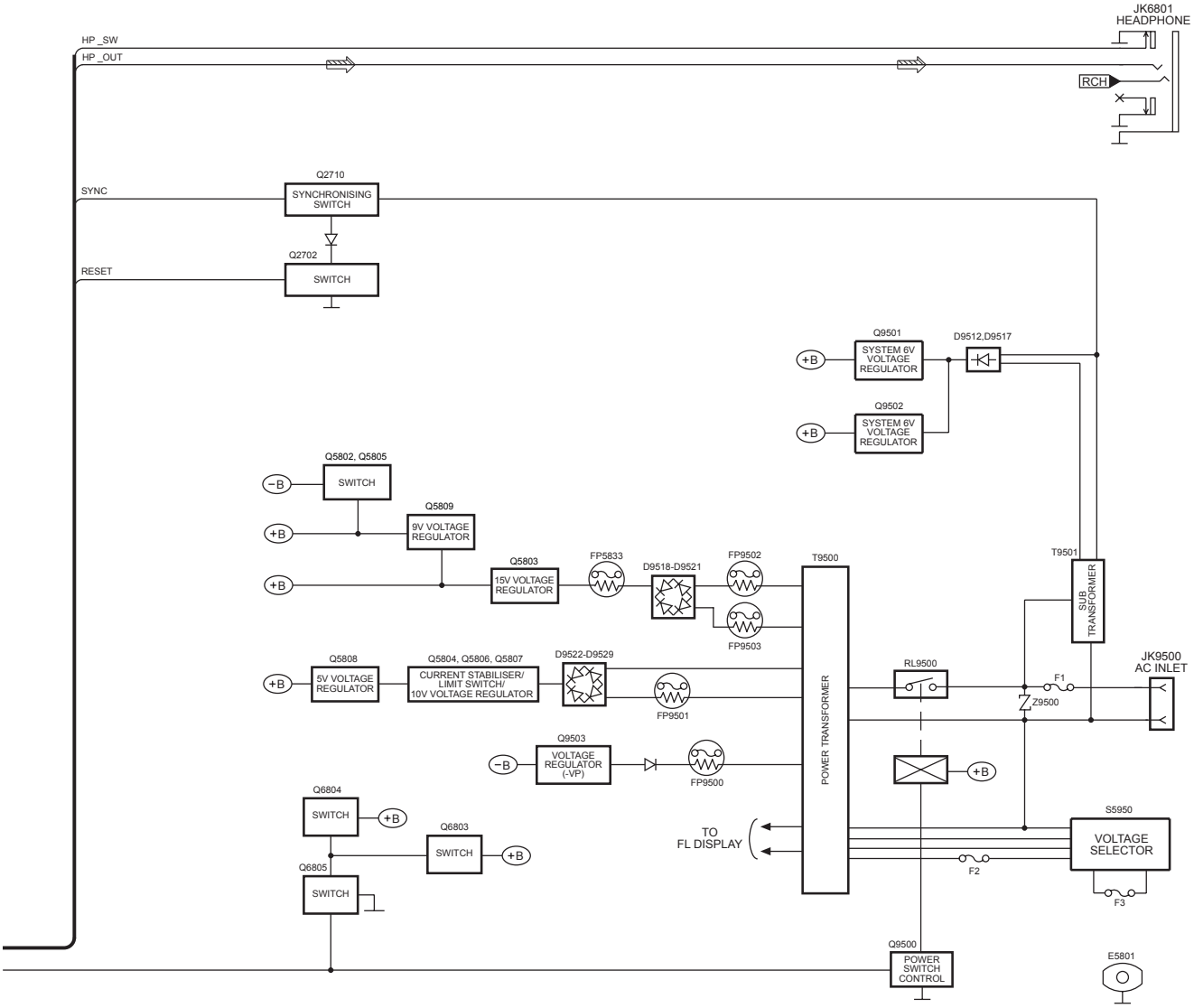

FILTER
IC5801
RSN315H42C-P
POWER AMP
16(15) -IN21(22)
13 -IN11
12 -IN12
8 ACDET
OUT21(22) 3(6)
OUT11 7
OUT12 9
FILTER
IC5002
RSN35H2B-P
POWER AMP
6 ACDET
10(14) -IN L(R)
OUT_L(R) 4(1)
LATCH 5
FILTER
FILTER
IC5001
RSN35H2B-P
POWER AMP
10(14) -IN_L(R)
6 ACDET
LATCH 5
OUTL(R) 4(1)
LCH
SUR_L(R)
JK9502
LCH
CENTER
LCH
SUBWOOFER L(R)
LCH
LOW L(R)
JK9501 (JK9503)
LCH
FRONT L(R)
Q5811
SWITCH
+B
Q5801, Q5810
SWITCH
FAN
Q2913~Q2916
FAN MOTOR DRIVE
FAN
Q2909~Q2912
FAN MOTOR DRIVE
FAN
Q6820
SWITCH
+B
−B
S6800~S6809
S6819~S6827
HP_SW
56
MUTE_H
93
KEY2
69
DC_DET
94
KEY3
SYNC 19
SYNC
RESET 12
RESET
PCONT 70
C2CBJG000653 IC2818 MICROPROCESSOR



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	: DVD (AUDIO) SIGNAL LINE
			: DVD (VIDEO) SIGNAL LINE

( ) Indicates the Pin No. of Right Channel.

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

20 Voltage Measurement

This section is not available at time of issue.

21 Schematic Diagram

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

Note:

S1 : Stock Switch
S2 : Play Switch
S3 : Bottom Switch
S4 : Open Switch
S5 : Change Switch
S951 : Mode Switch
S952 : Half Switch
S971 : Mode Switch
S972 : Half Switch
S974 : Recinh_R Switch
S975 : Recinh_F Switch
S5950 : Voltage Selector Switch
S6800 : DVD/CD Switch
S6801 : Tape Switch
S6802 : Tuner/Band Switch
S6803 : AUX Switch
S6804 : Deck 1 Switch
S6805 : Display/Demo Switch
S6806 : Deck 2 Switch
S6807 : Rew Switch
S6808 : FF Switch
S6809 : Stop Switch
S6810 : AC In Switch
S6811 : Disc Check Switch
S6812 : Multi Re-Master Switch
S6813 : Super Surround Switch
S6814 : Mic Up Switch
S6815 : Mic Down Switch
S6816 : Deck 1/2 Switch
S6817 : Rec Switch
S6818 : Sound EQ Switch
S6819 : Open/Close Switch
S6820 : Disc Change Switch
S6821 : Disc 5 Switch
S6822 : Disc 4 Switch
S6823 : Disc 3 Switch
S6824 : Disc 2 Switch
S6825 : Disc 1 Switch
S6826 : Super Sound EQ Switch
S6827 : S.Woofer Switch
VR6800 : 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.

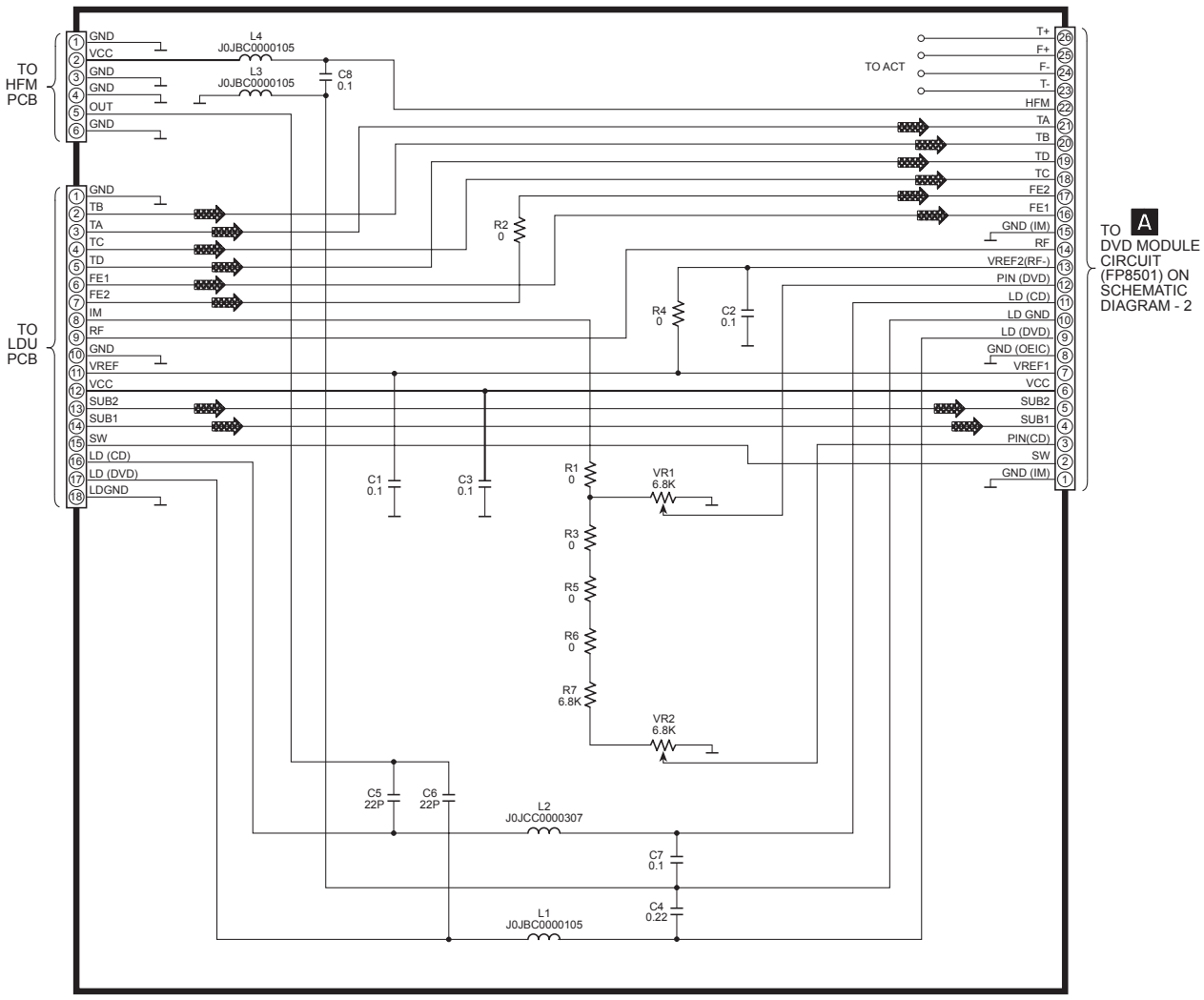
21.1. Optical Pickup Unit Circuit

SCHEMATIC DIAGRAM - 1

OPTICAL PICKUP UNIT CIRCUIT

: +B SIGNAL LINE

: CD-DA SIGNAL LINE

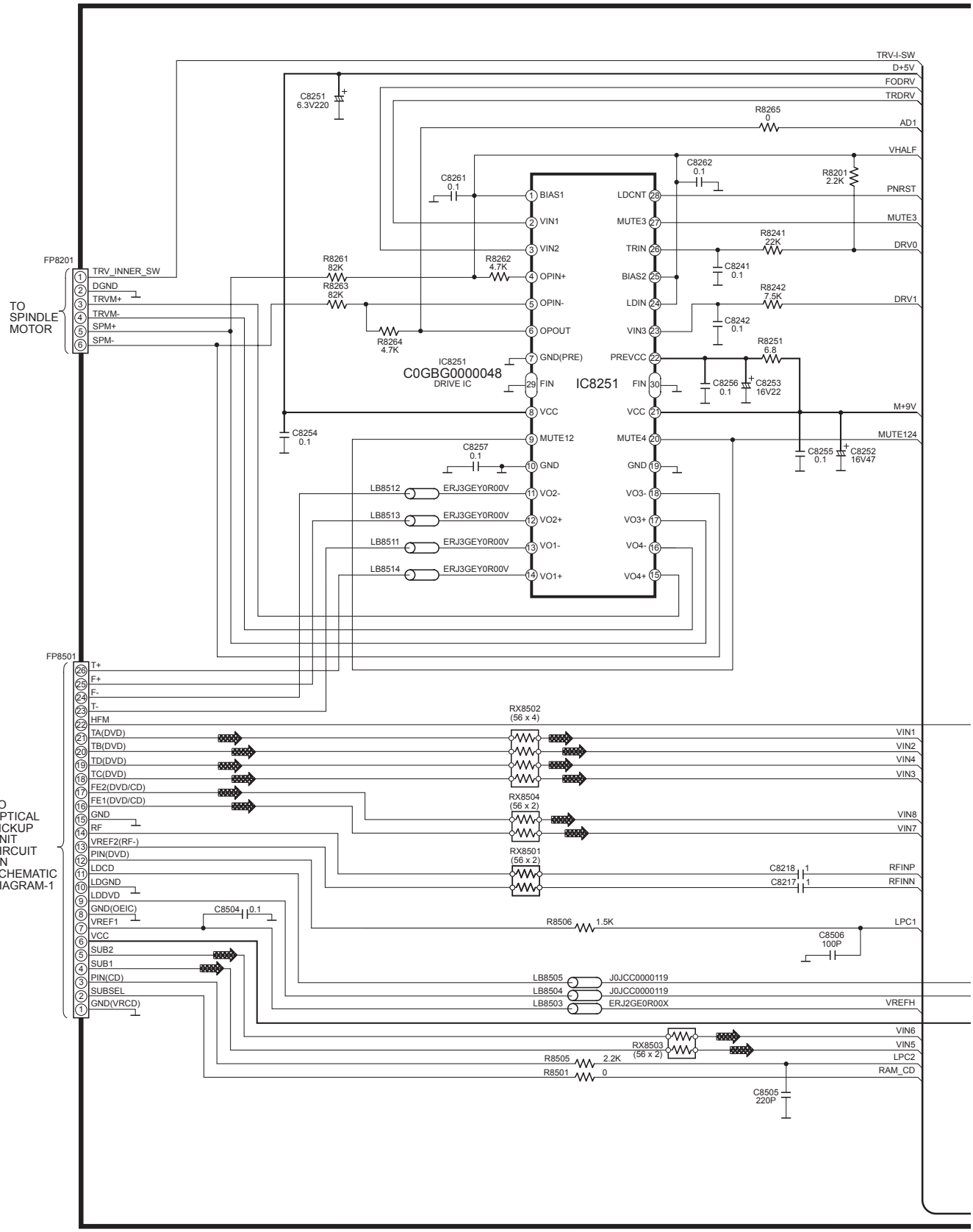


21.2. (A) DVD Module Circuit

SCHEMATIC DIAGRAM - 2

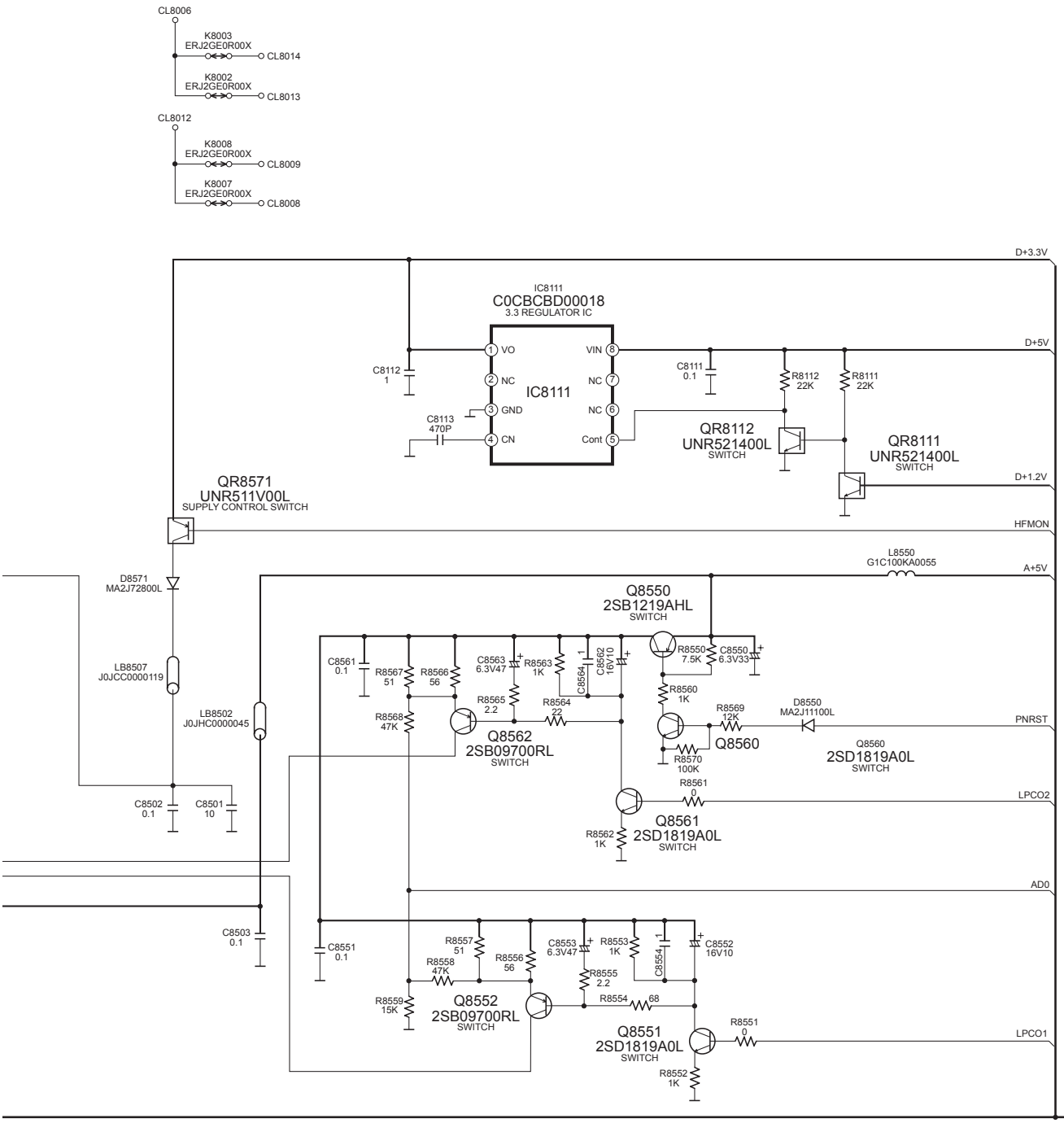
A DVD MODULE CIRCUIT

——— : +B SIGNAL LINE ⇒ : CD-DA SIGNAL LINE



A DVD MODULE CIRCUIT

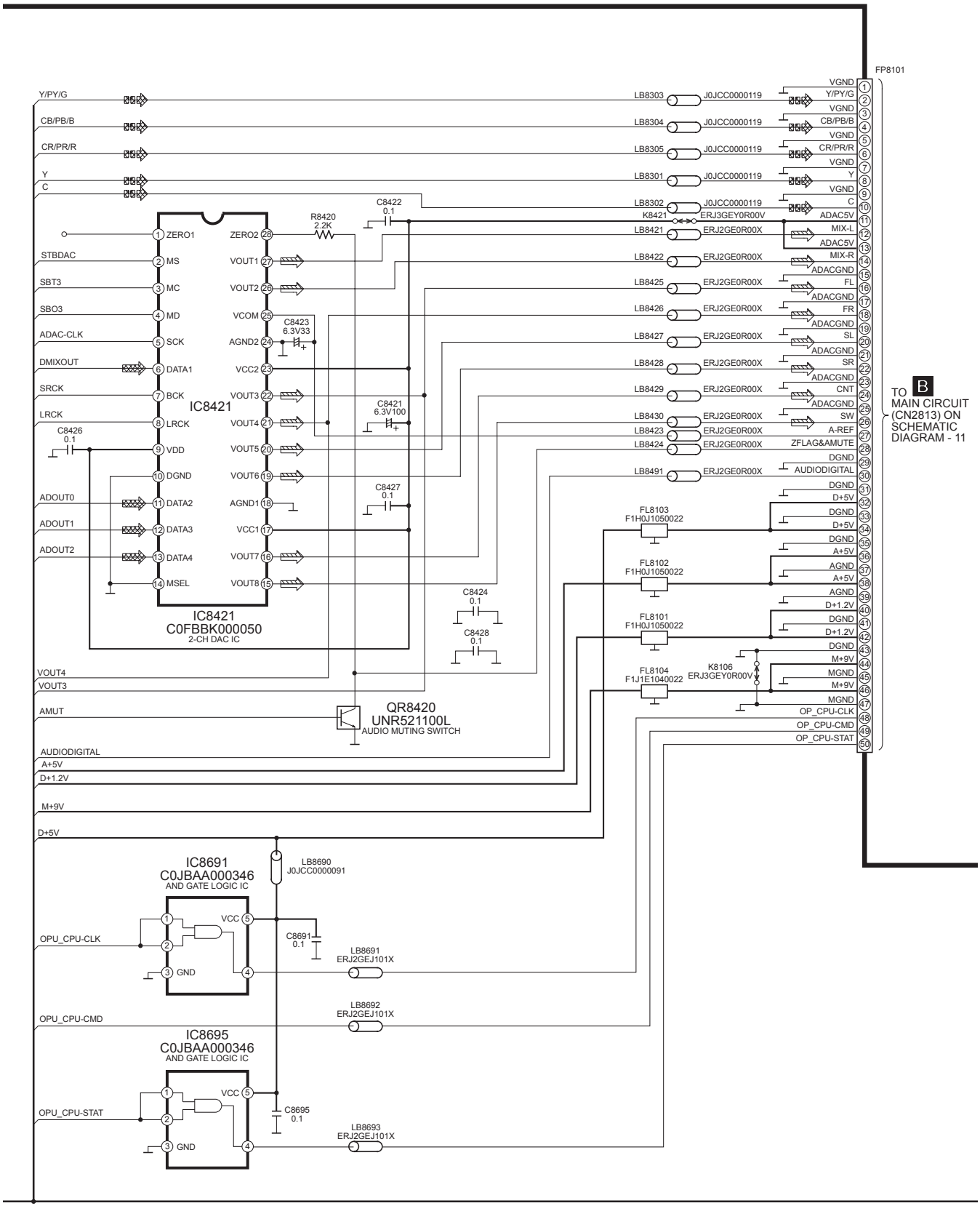
——— : +B SIGNAL LINE



SCHEMATIC DIAGRAM - 4

A DVD MODULE CIRCUIT

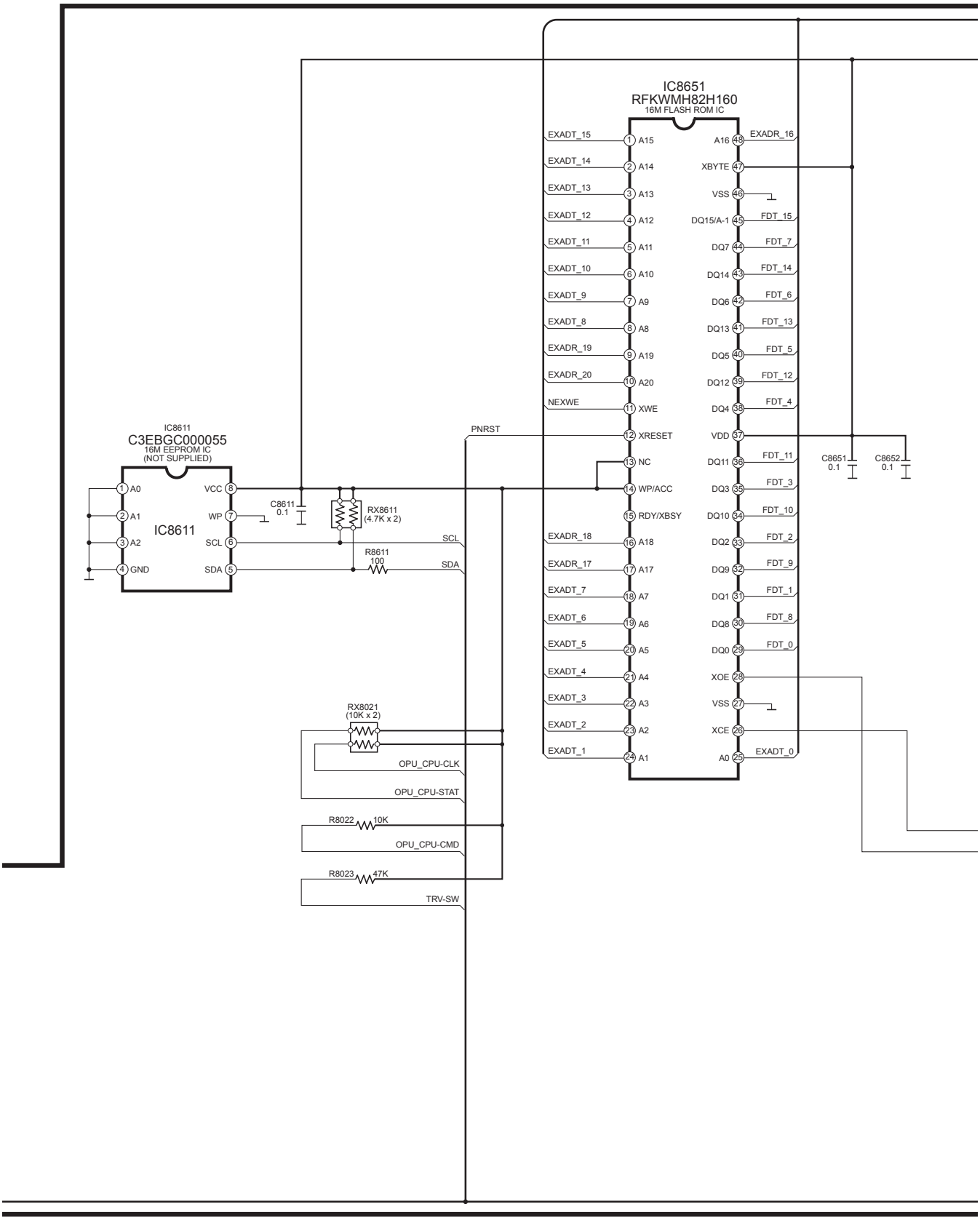
: MAIN SIGNAL LINE
: +B SIGNAL LINE
: DVD VIDEO SIGNAL LINE
: DVD AUDIO SIGNAL LINE



SCHEMATIC DIAGRAM - 5

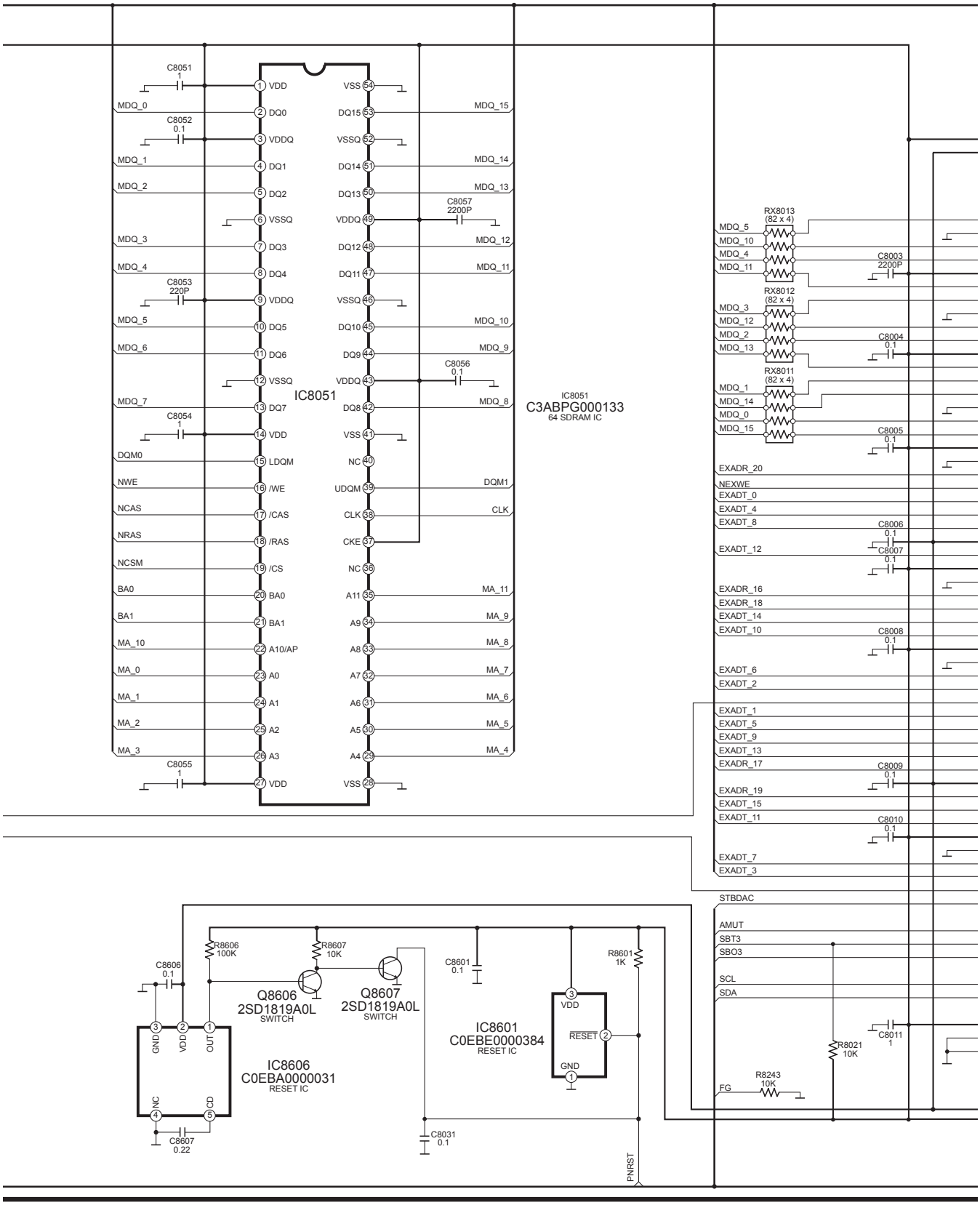
A DVD MODULE CIRCUIT

——— : +B SIGNAL LINE



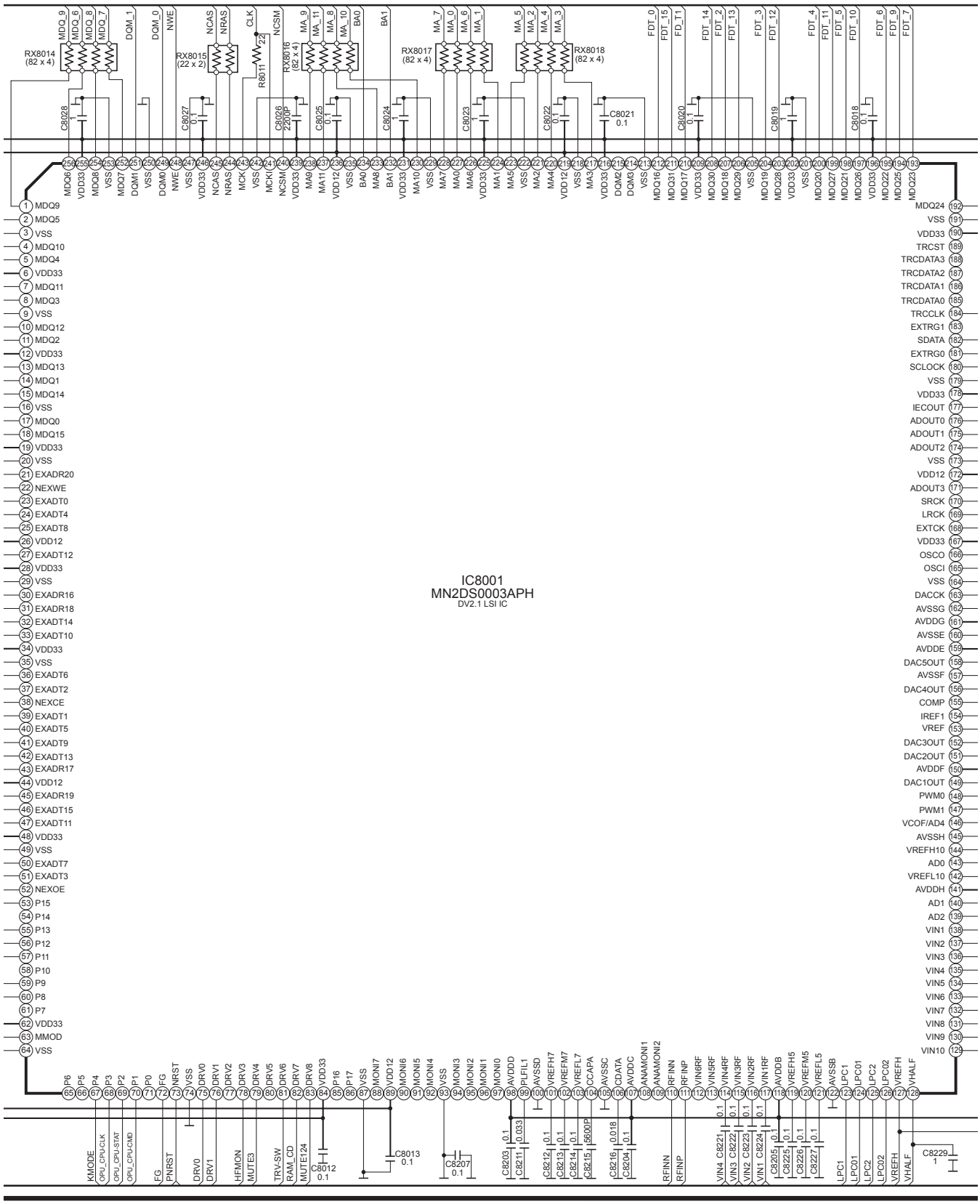
A DVD MODULE CIRCUIT

: +B SIGNAL LINE



A DVD MODULE CIRCUIT

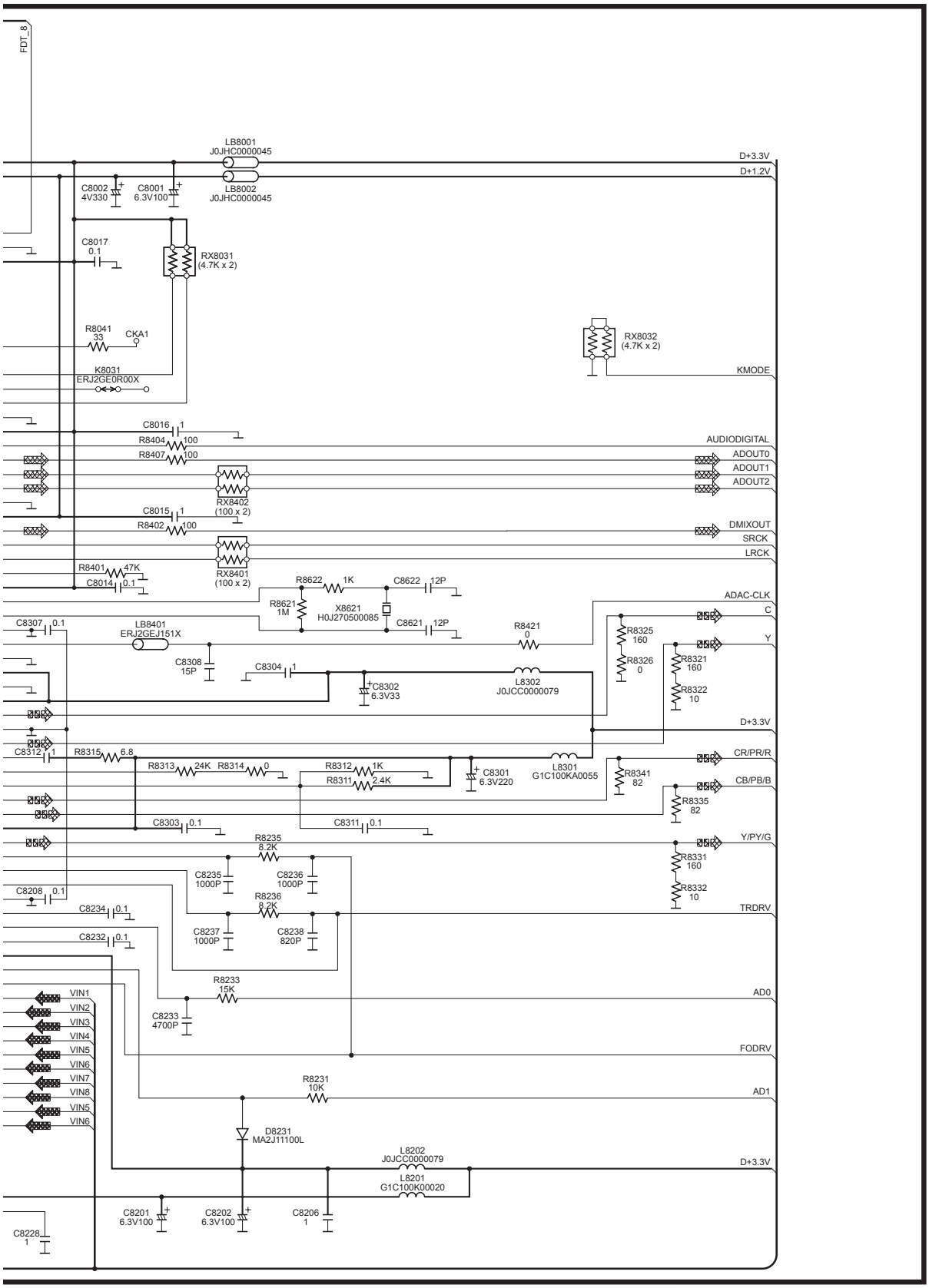
——— : +B SIGNAL LINE



SCHEMATIC DIAGRAM - 8

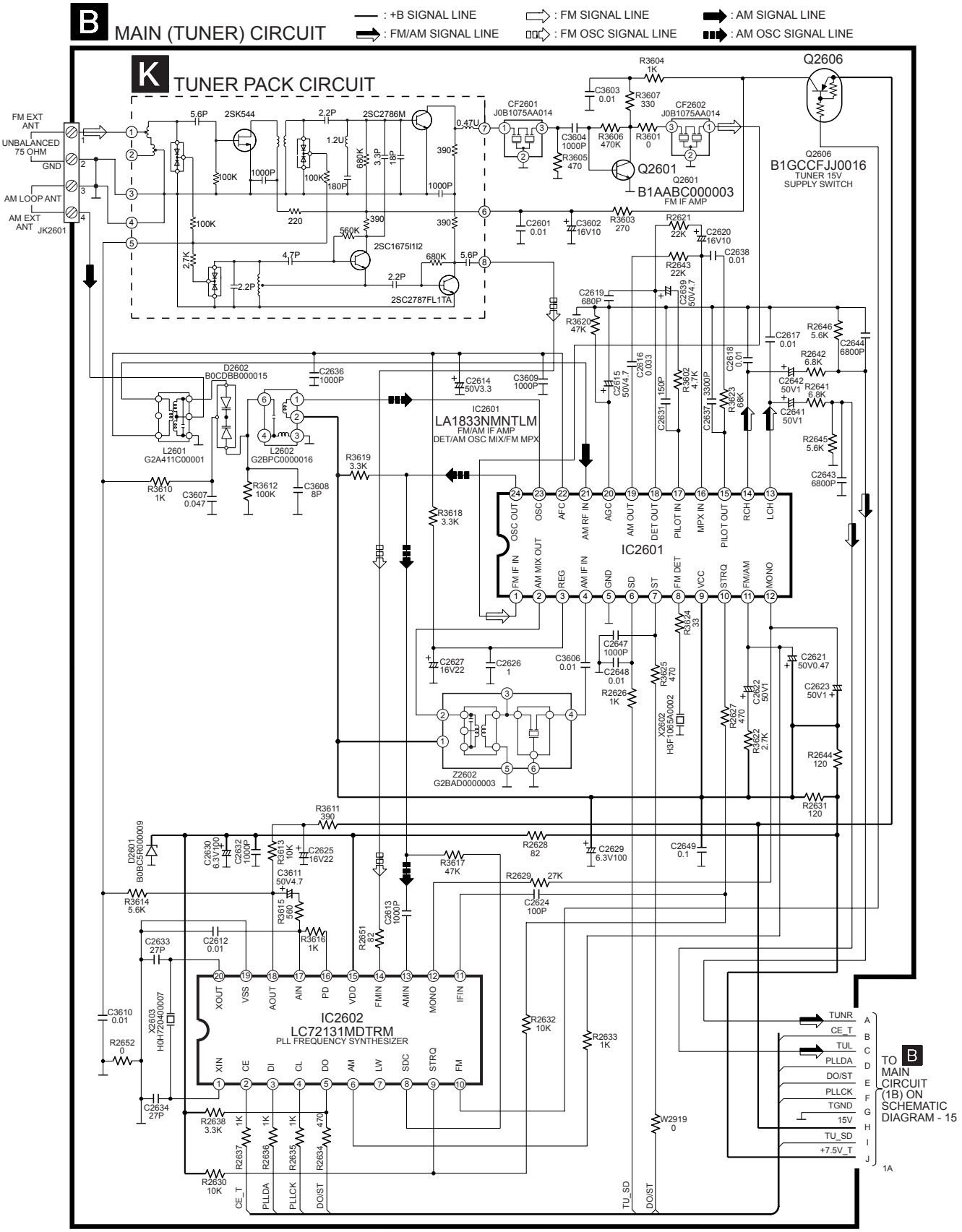
A DVD MODULE CIRCUIT

: CD-DA SIGNAL LINE
: +B SIGNAL LINE
: DVD VIDEO SIGNAL LINE
: DVD AUDIO SIGNAL LINE



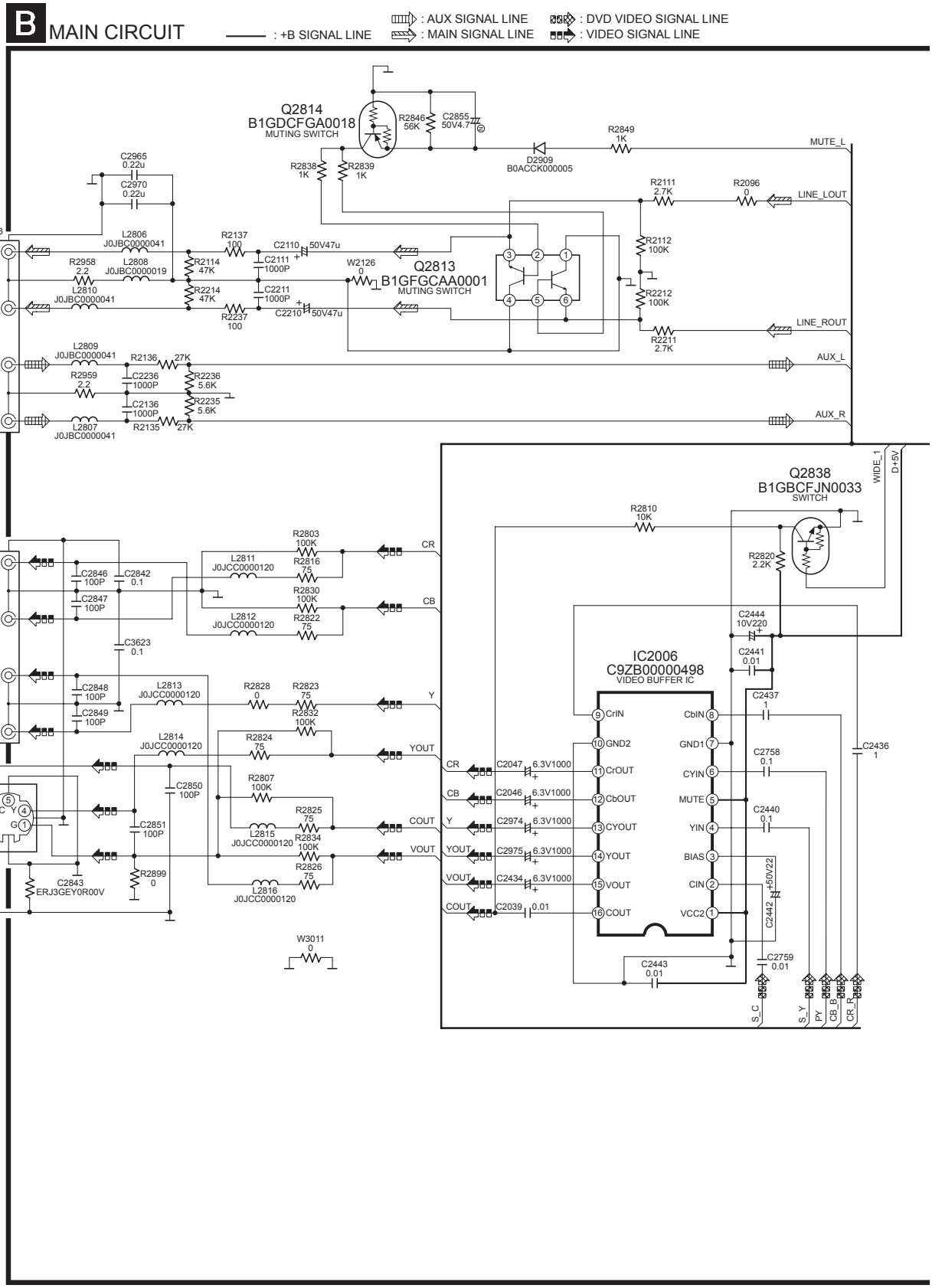
21.3. (B) Main (Tuner) Circuit

SCHEMATIC DIAGRAM - 9



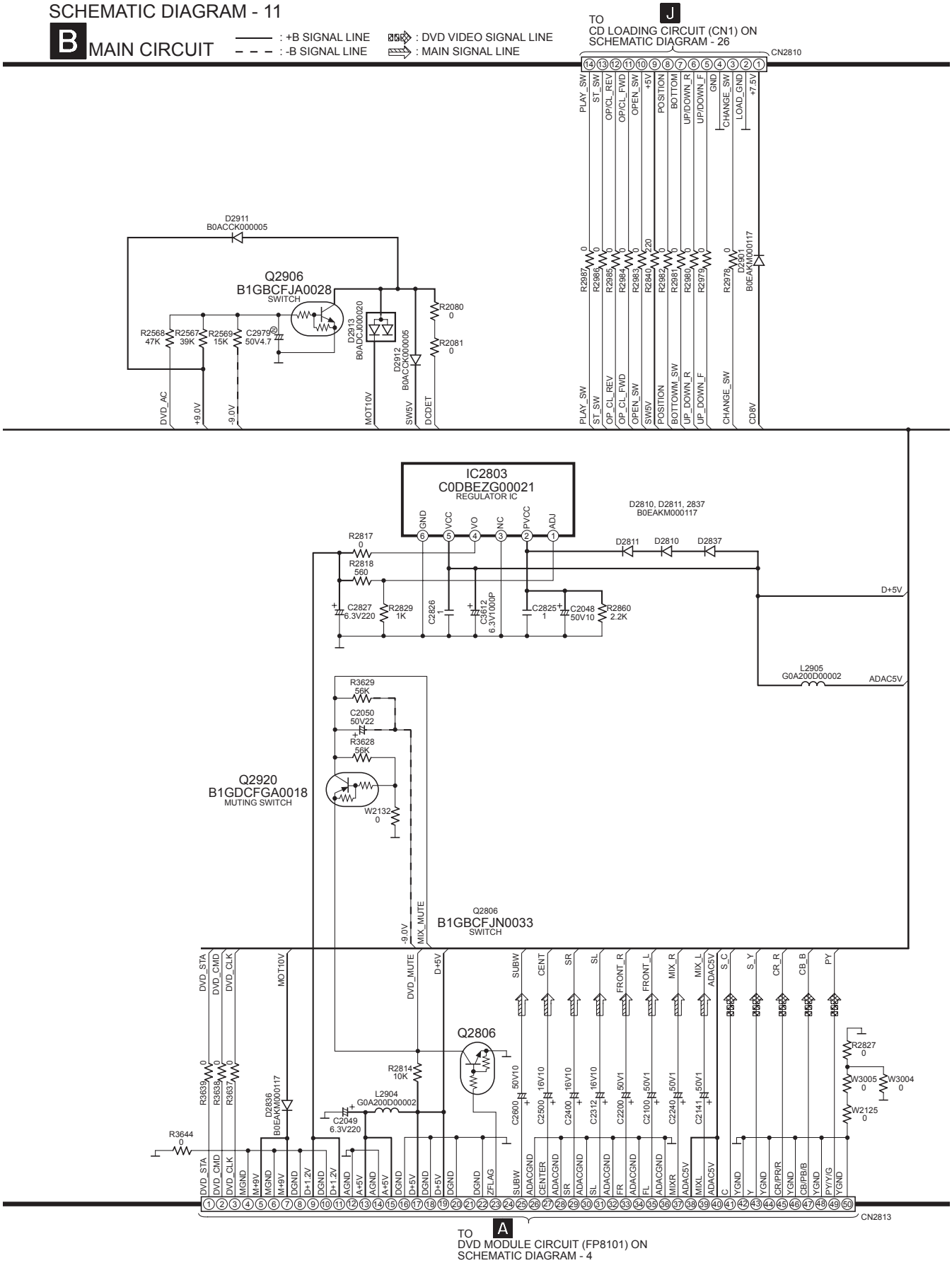
21.4. (B) Main Circuit

SCHEMATIC DIAGRAM - 10



B MAIN CIRCUIT

: +B SIGNAL LINE
: -B SIGNAL LINE
: DVD VIDEO SIGNAL LINE
: MAIN SIGNAL LINE

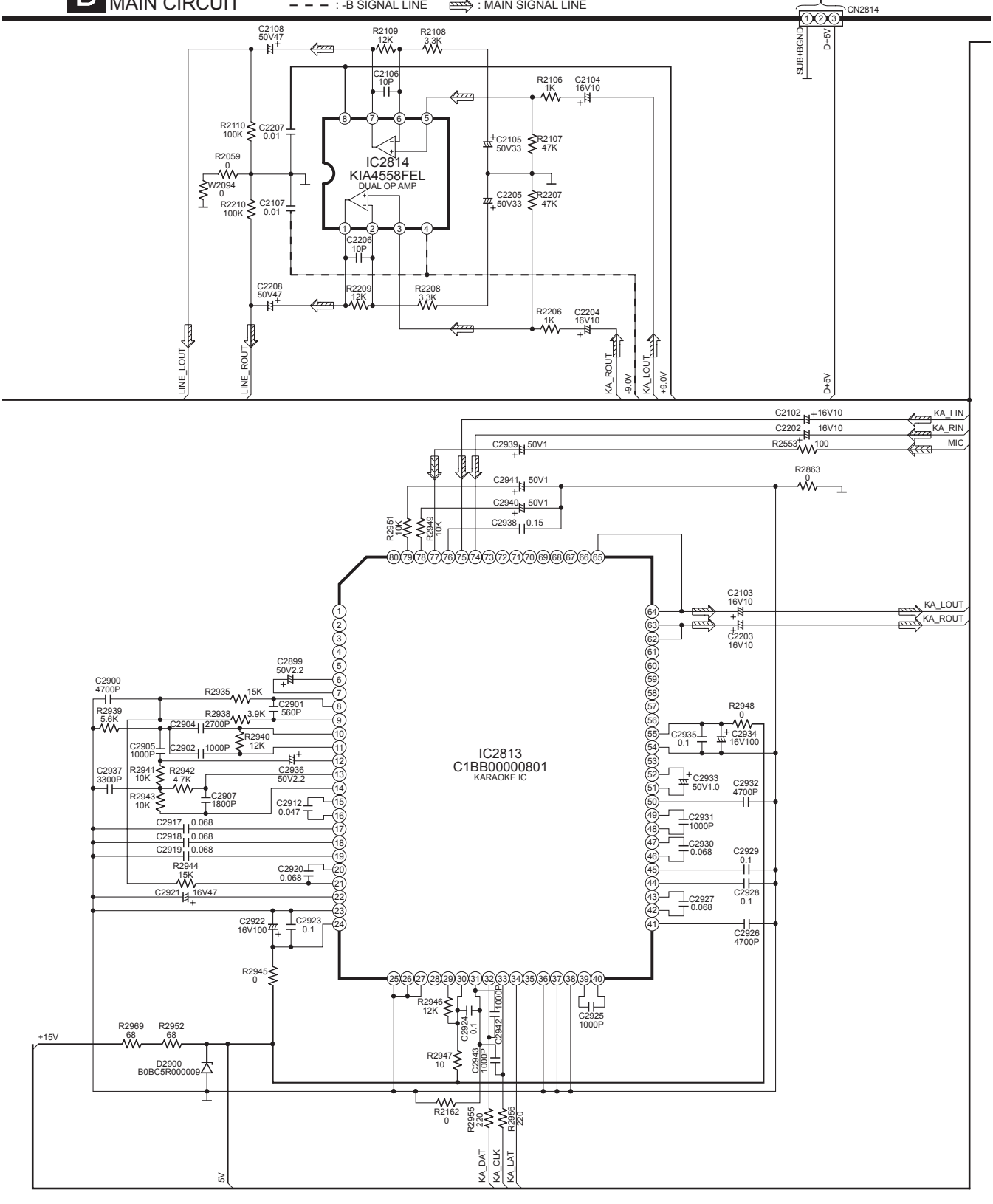


SCHEMATIC DIAGRAM - 12

B MAIN CIRCUIT

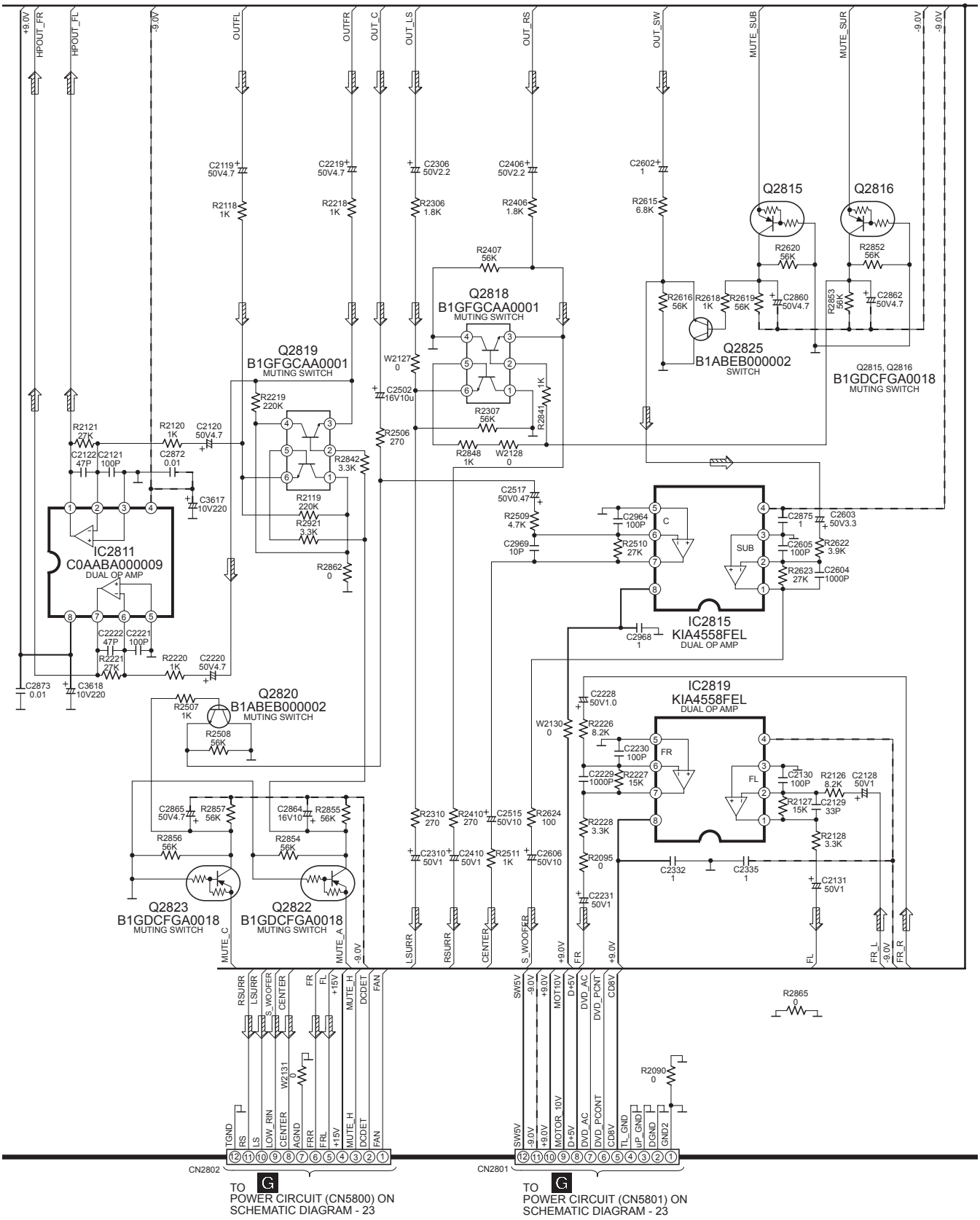
——— : +B SIGNAL LINE
– – – : -B SIGNAL LINE
: MIC SIGNAL LINE
: MAIN SIGNAL LINE

TO I
TRANSFORMER CIRCUIT (H9502/W9502)
ON SCHEMATIC DIAGRAM - 25



B MAIN CIRCUIT

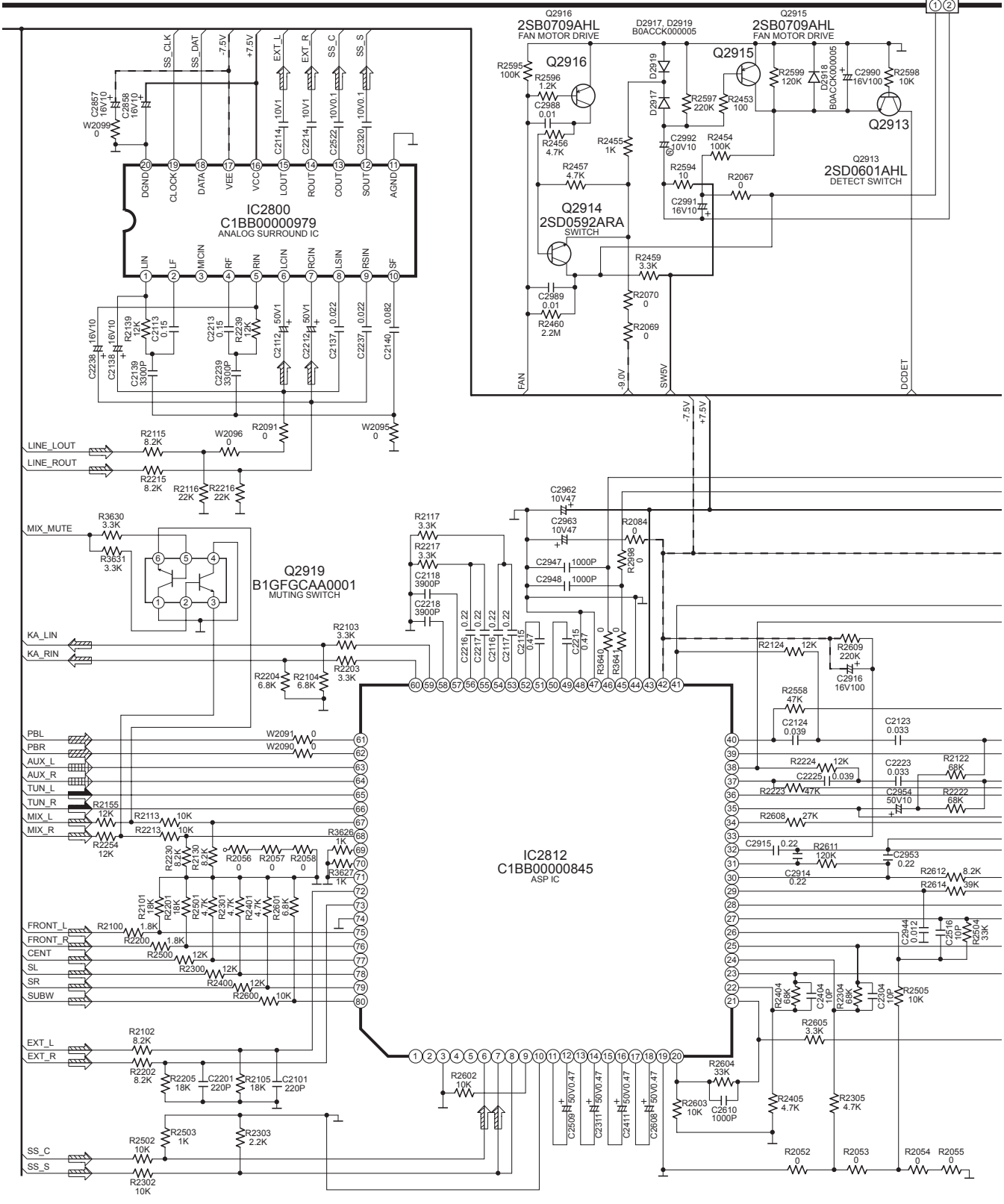
——— : +B SIGNAL LINE
– – – : -B SIGNAL LINE
⇨ : MAIN SIGNAL LINE



B MAIN CIRCUIT

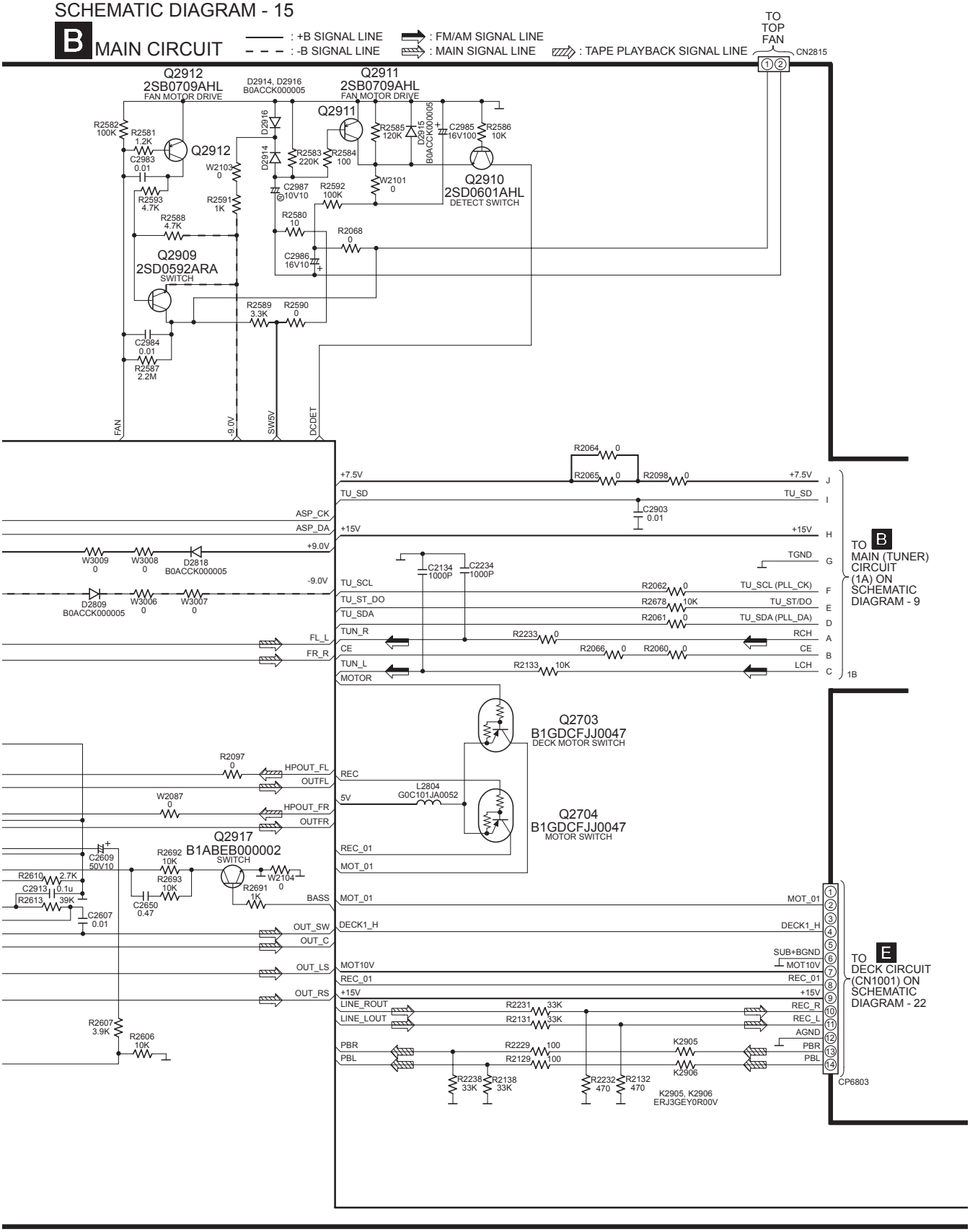
——— : +B SIGNAL LINE
– – – : -B SIGNAL LINE
: AUX SIGNAL LINE
: MAIN SIGNAL LINE
: FM/AM SIGNAL LINE
: TAPE PLAYBACK SIGNAL LINE

TO BOTTOM FAN CN2816



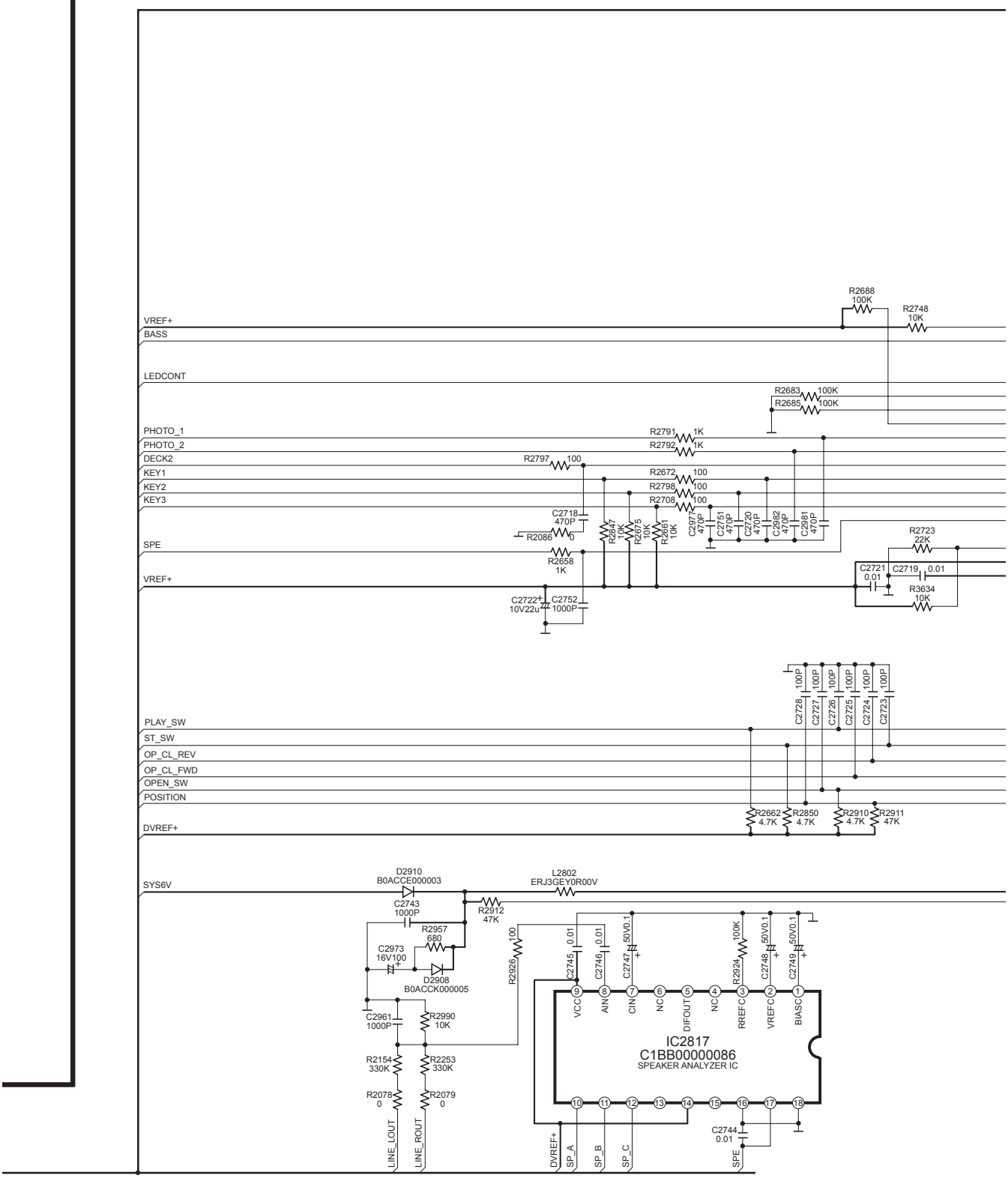
B MAIN CIRCUIT

: +B SIGNAL LINE
: -B SIGNAL LINE
: FM/AM SIGNAL LINE
: MAIN SIGNAL LINE
: TAPE PLAYBACK SIGNAL LINE



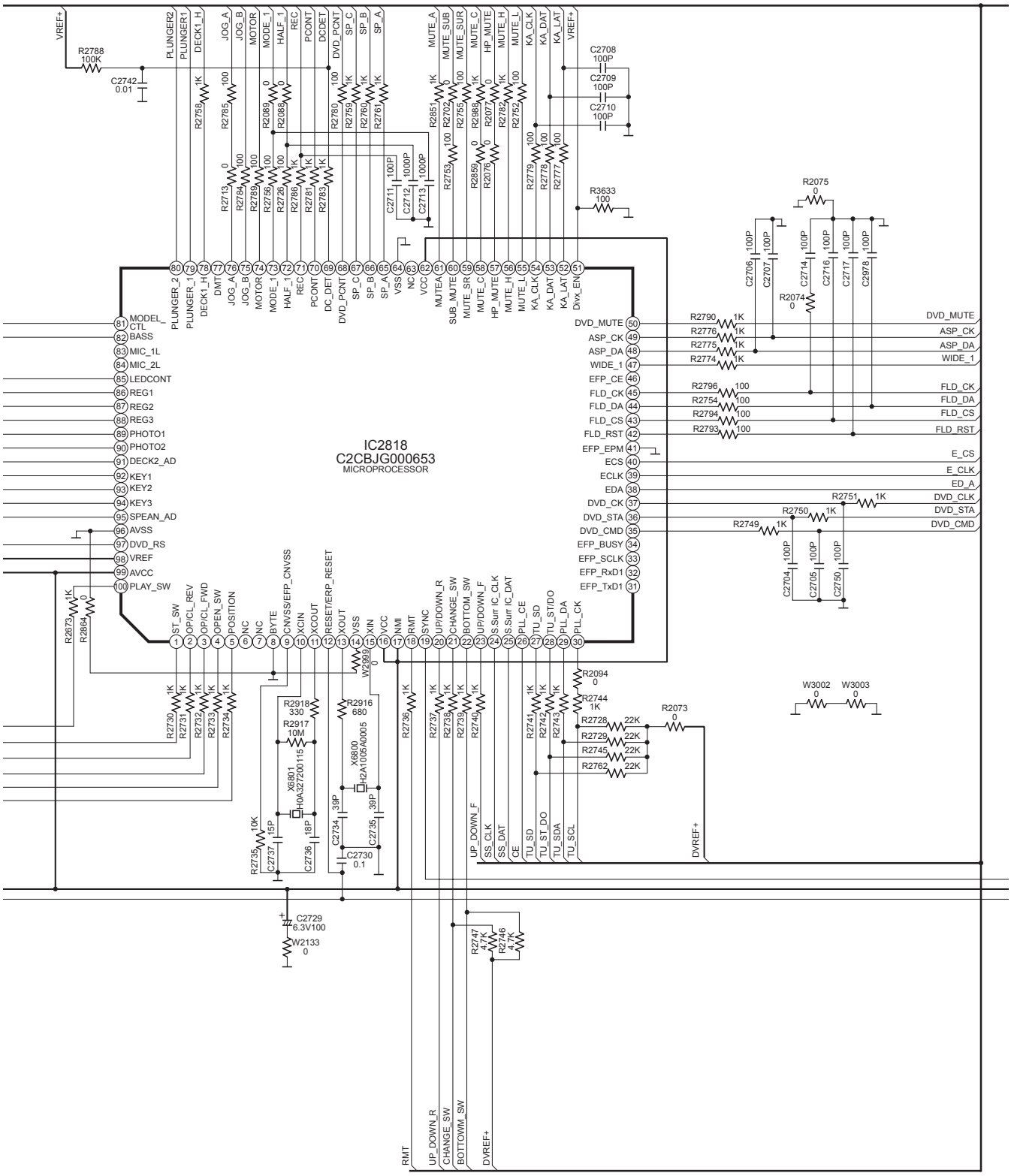
B MAIN CIRCUIT

—— : +B SIGNAL LINE



B MAIN CIRCUIT

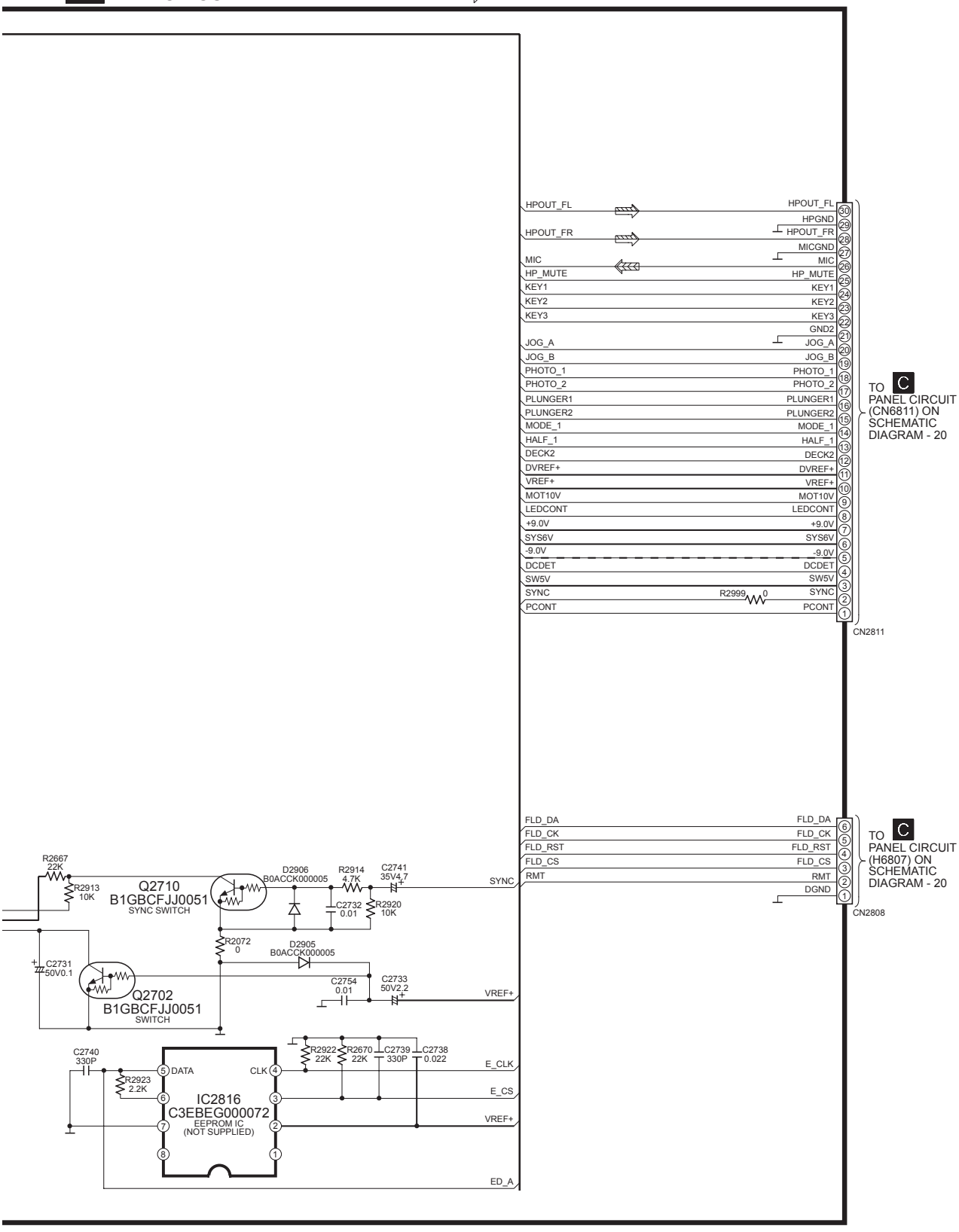
—— : +B SIGNAL LINE



SCHEMATIC DIAGRAM - 18

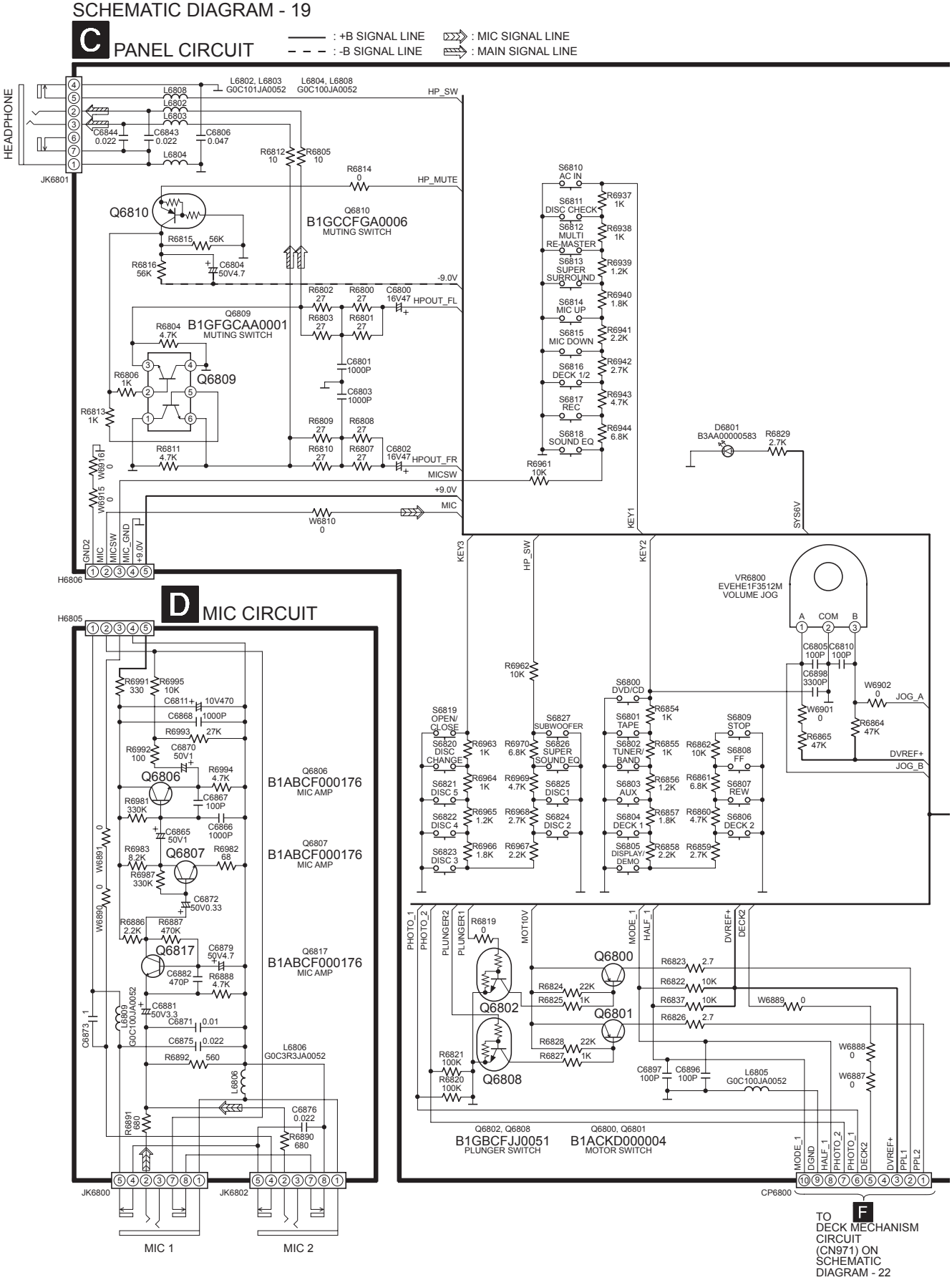
B MAIN CIRCUIT

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



21.5. (C) Panel Circuit & (D) Mic Circuit

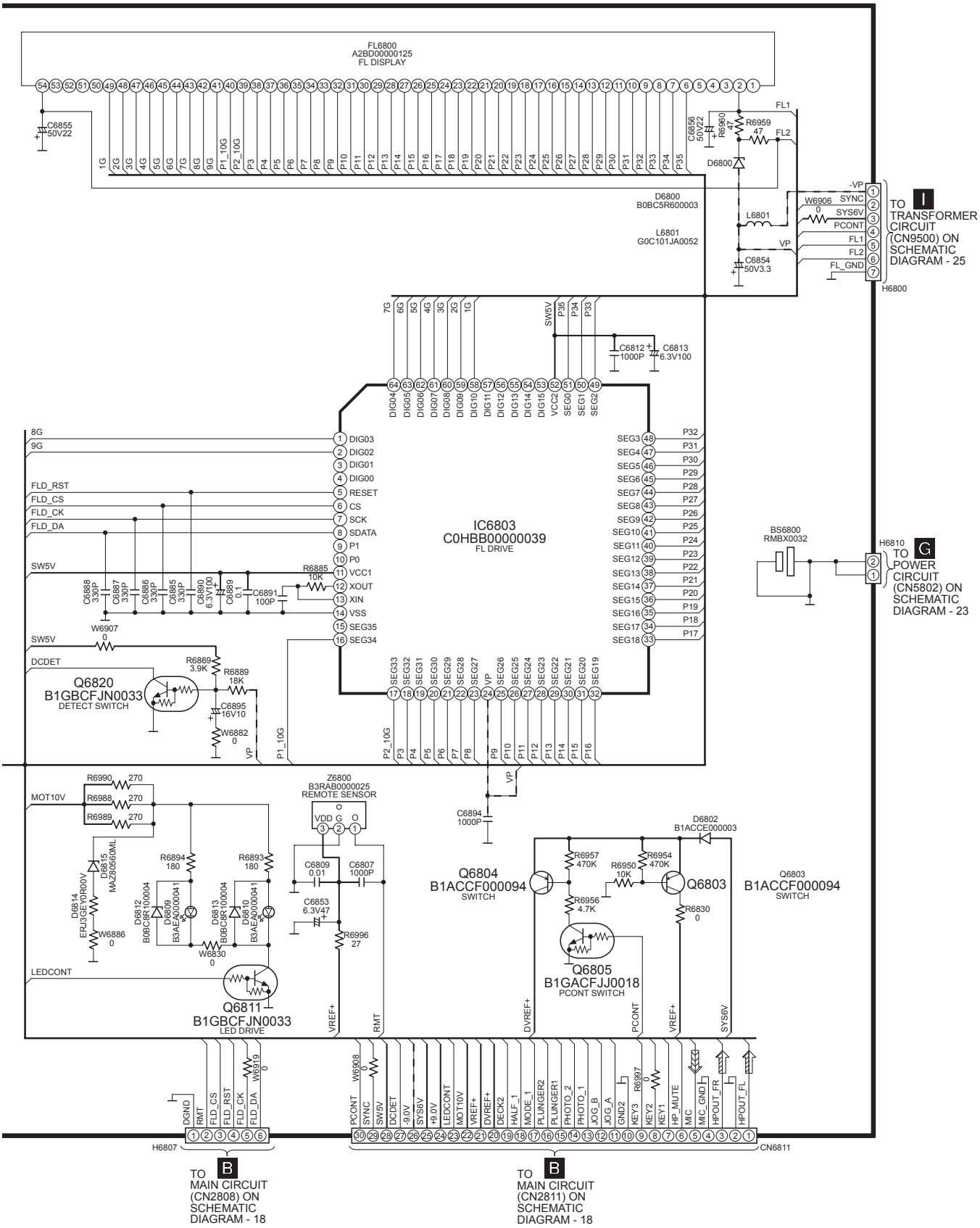
SCHEMATIC DIAGRAM - 19



SCHEMATIC DIAGRAM - 20

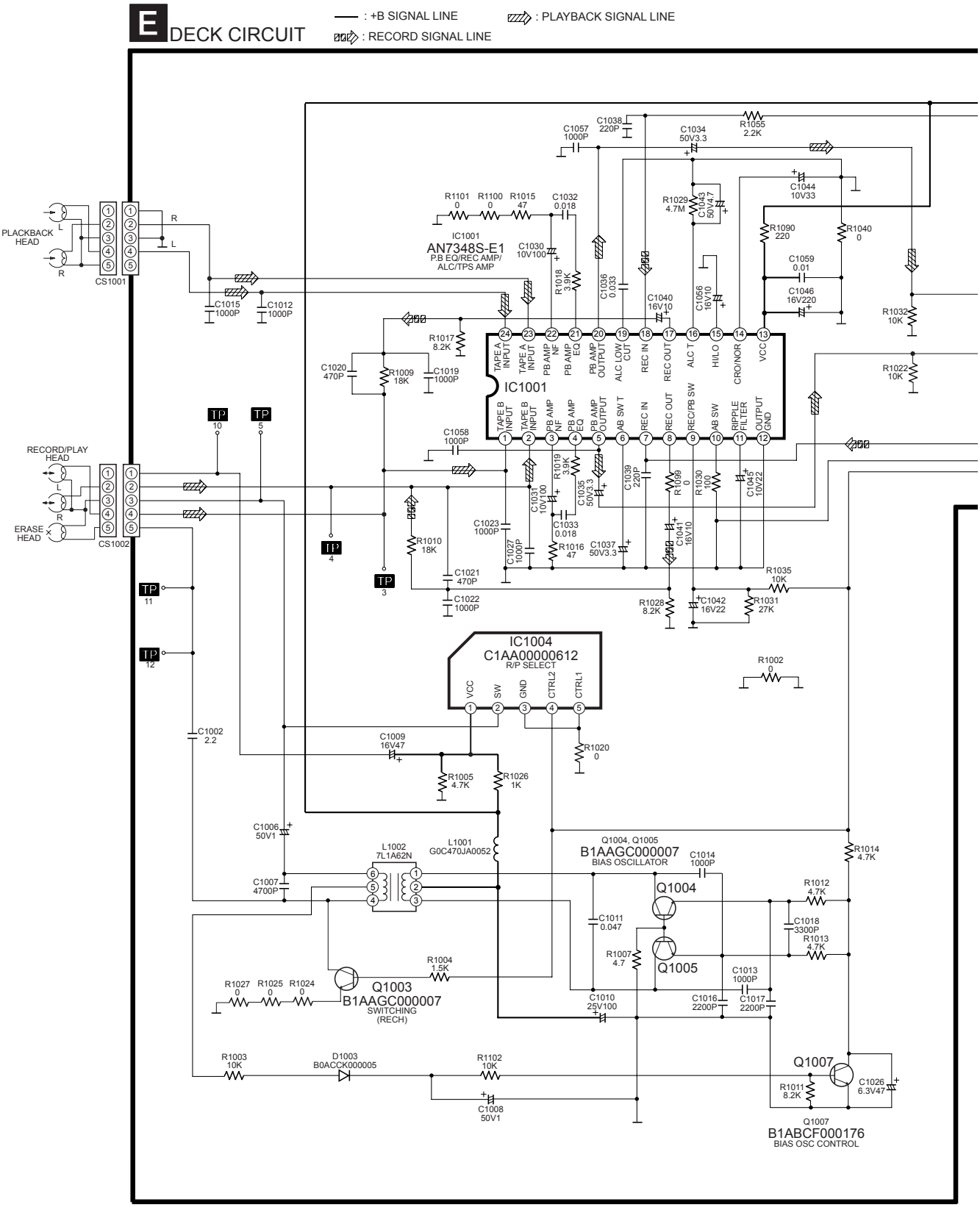
C PANEL CIRCUIT

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

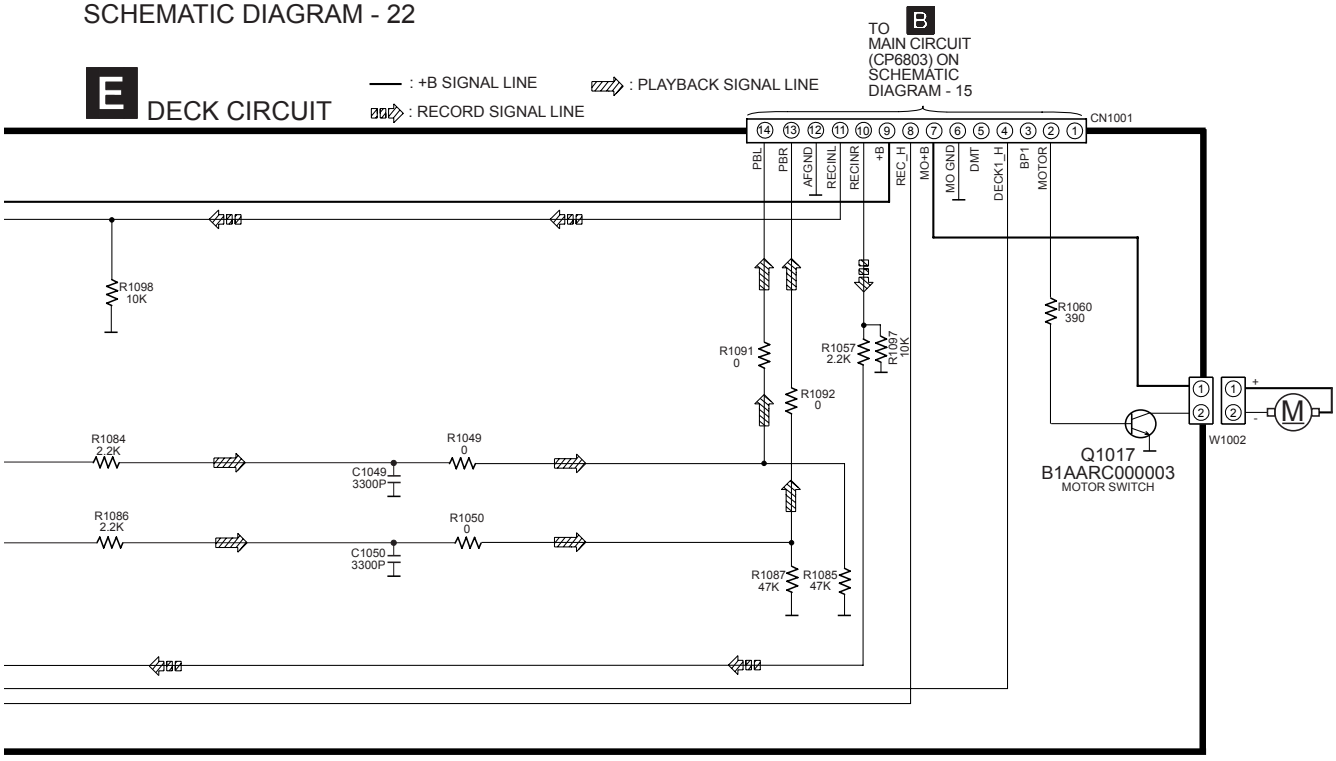


21.6. (E) Deck Circuit & (F) Deck Mechanism Circuit

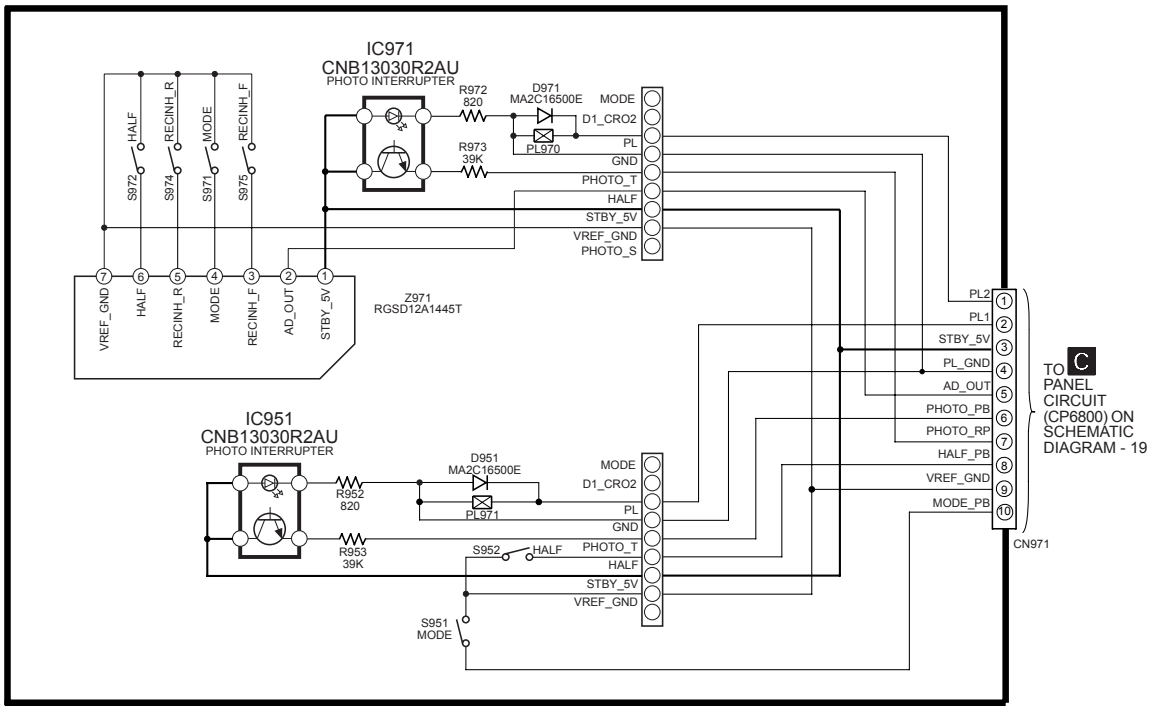
SCHEMATIC DIAGRAM - 21

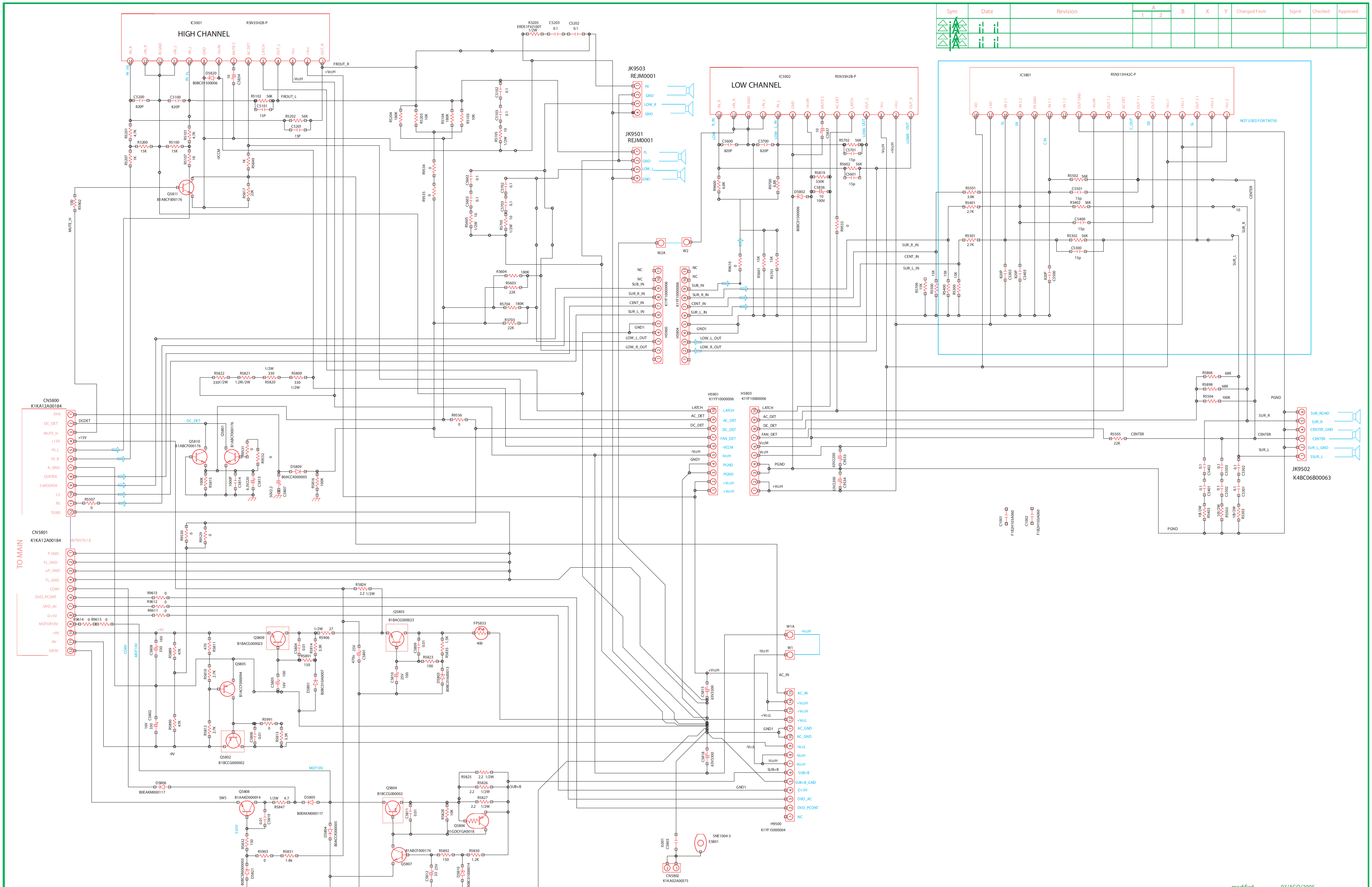


E DECK CIRCUIT



F DECK MECHANISM CIRCUIT





Sym	Item or Code No.	Material & Size	gt	PILOT RUN	New
Issued	Section	Dic/Note			
Pre 03/AGO/05	ELECTRONICS				

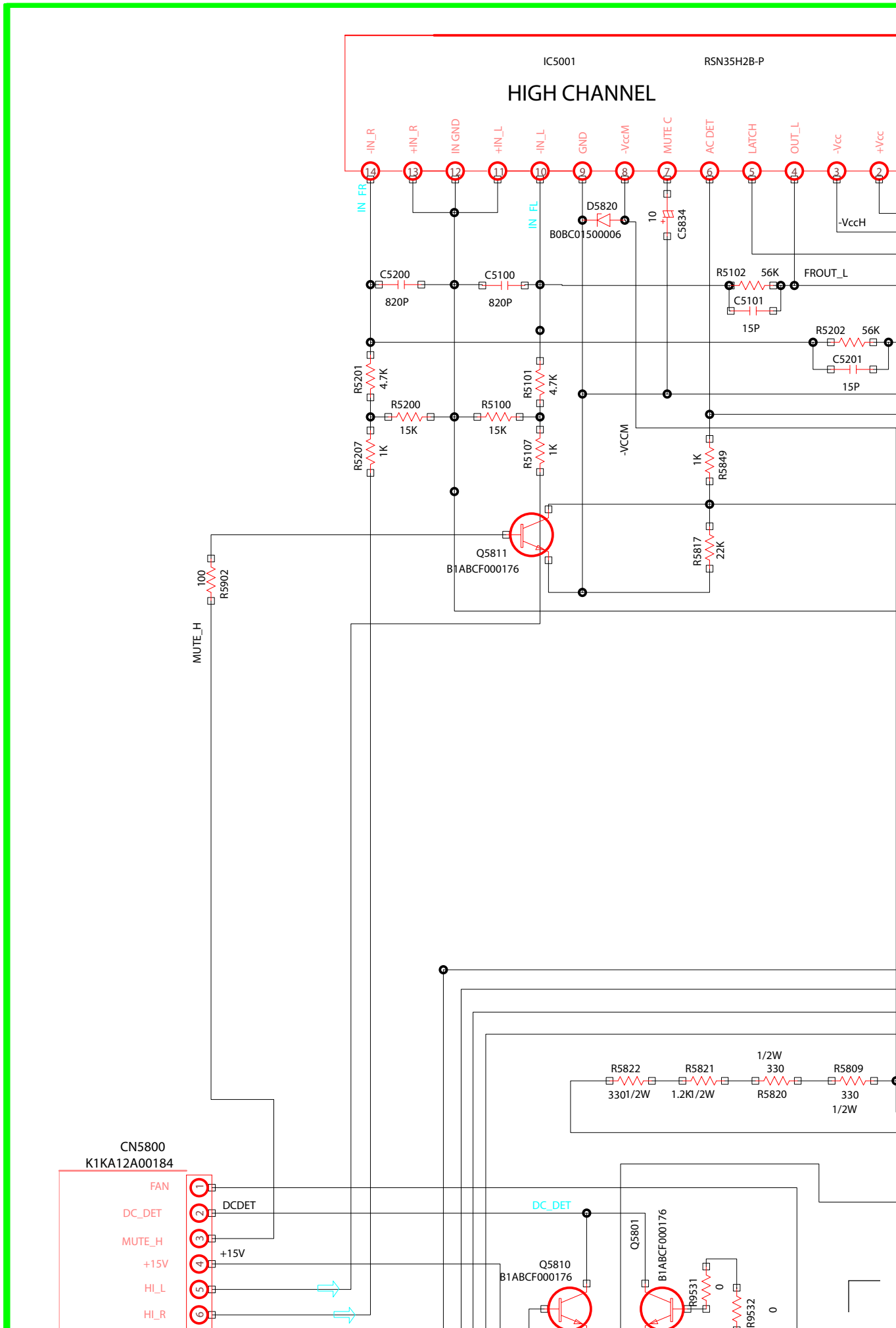
modified 03/AGO/2005

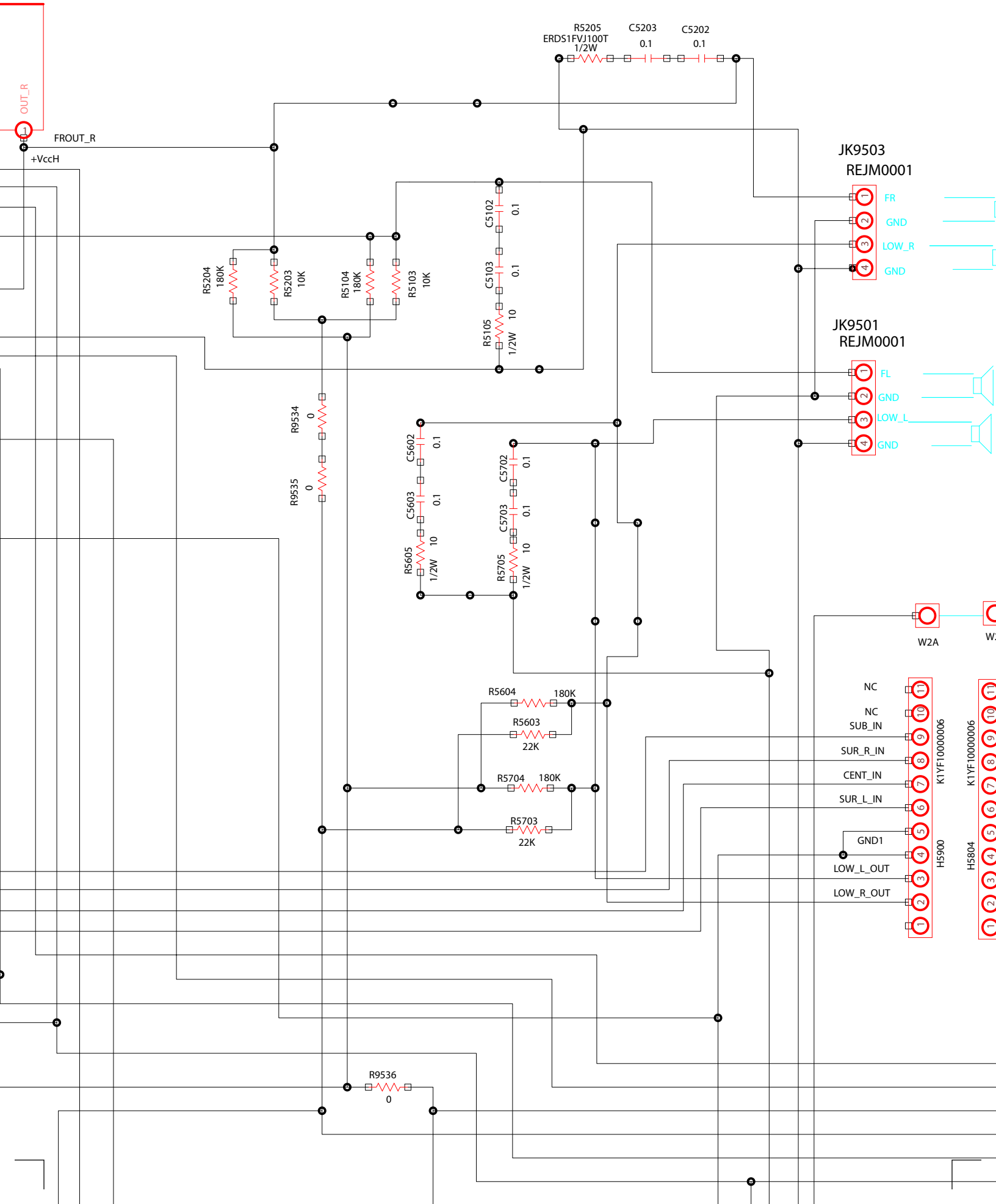
Scale	Designed	Drawn	Checked	Approved
N/A	HSC	HSC	HSC	A.KOKEI

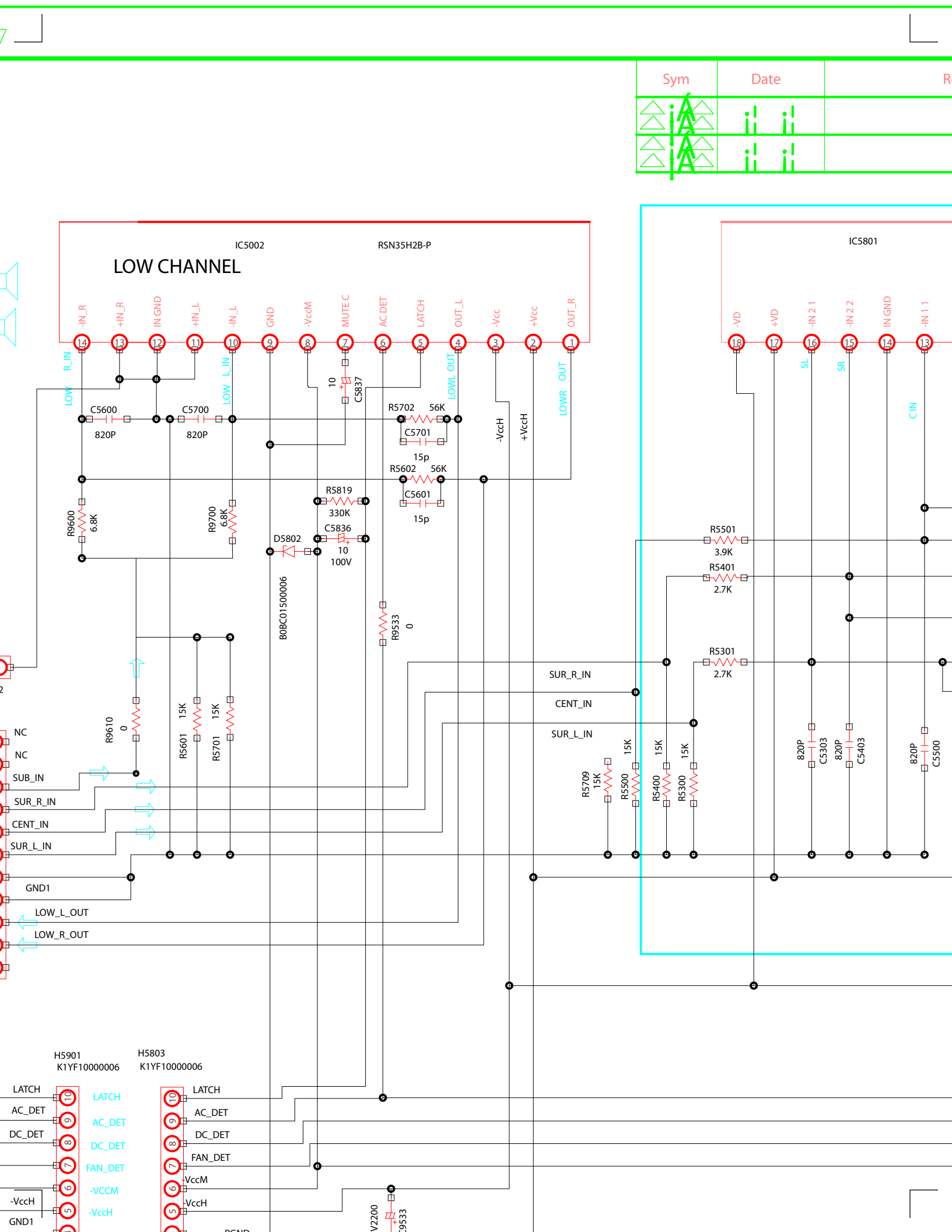
Model: SA-TM900DVD
Parts no.: RJBM0046A-1
Name: POWER PCB

Unit : mm

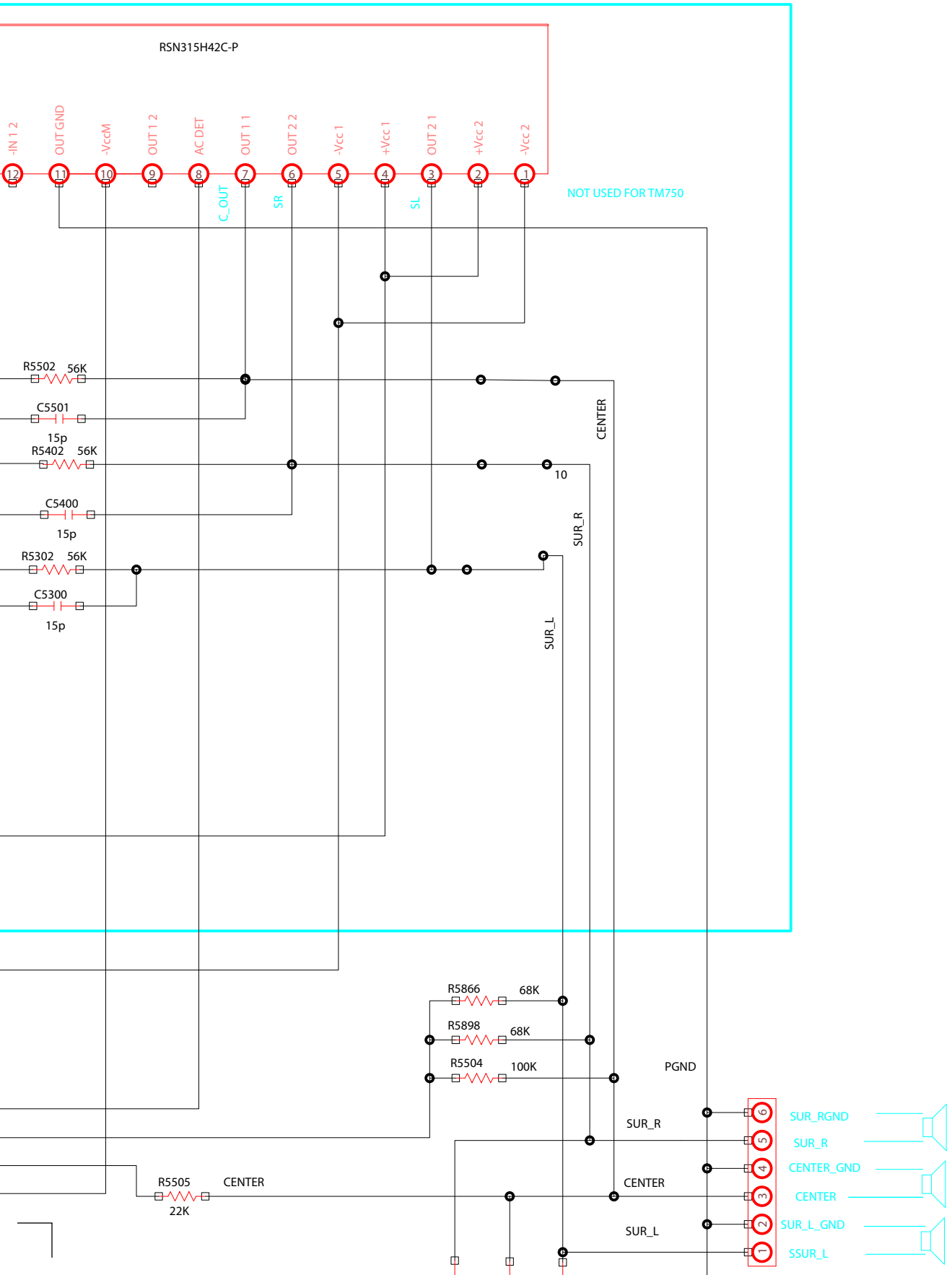
PANASONIC DE MEXICO SA DE CV
INGENIERIA DE AUDIO

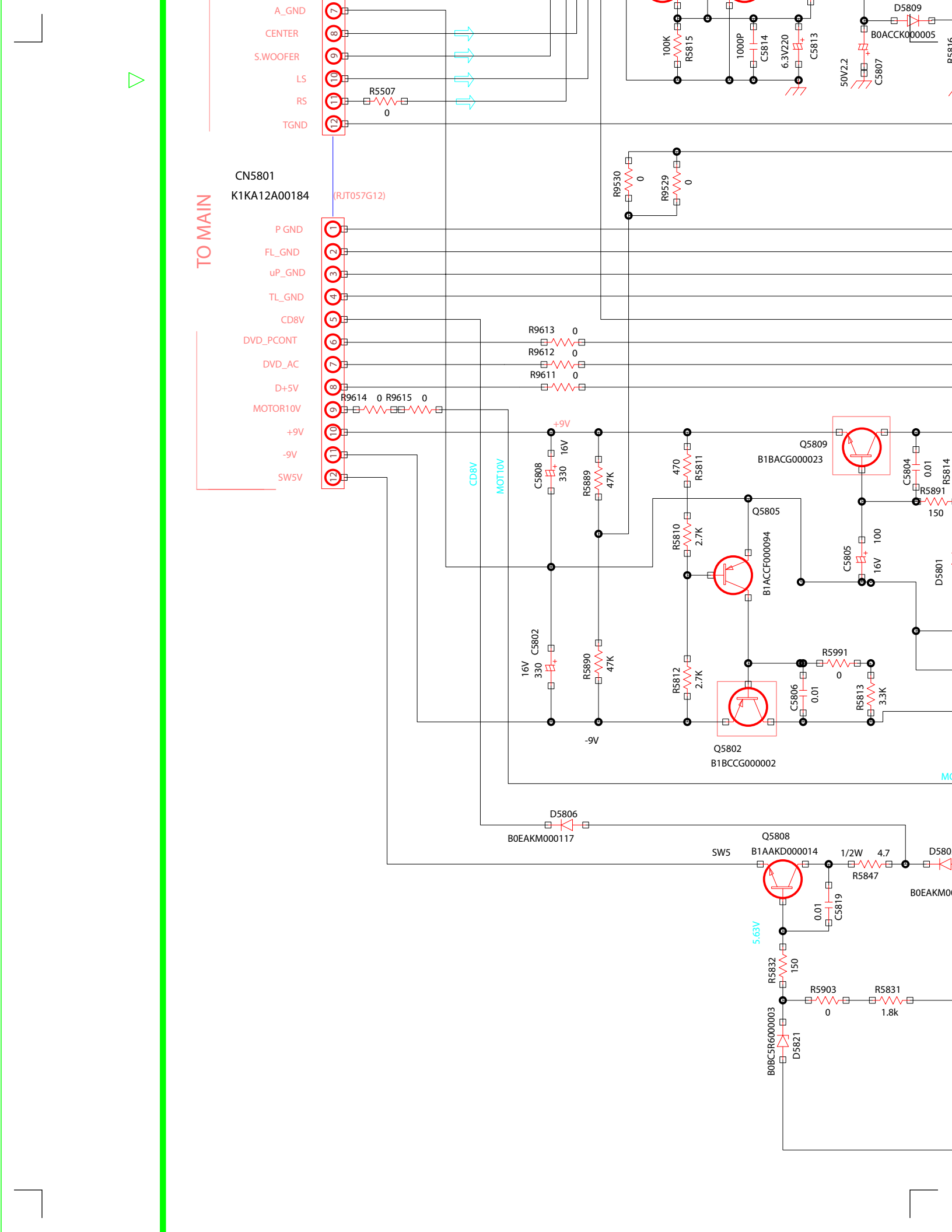

IC5001
RSN35H2B-P
HIGH CHANNEL
-IN_R
+IN_R
IN GND
+IN_L
-IN_L
GND
-VccM
MUTE C
AC DET
LATCH
OUT_L
-Vcc
+Vcc
IN_FR
IN_FL
D5820
B0BC01500006
10
C5834
-VccH
C5200
820P
C5100
820P
R5102
56K
FROUT_L
C5101
15P
R5202
56K
C5201
15P
R5201
4.7K
R5101
4.7K
R5200
15K
R5100
15K
R5207
1K
R5107
1K
-VCCM
1K
R5849
Q5811
B1ABCF000176
R5817
22K
100
R5902
MUTE_H
1/2W
R5822
3301/2W
R5821
1.2K1/2W
330
R5820
R5809
330
1/2W
CN5800
K1KA12A00184
FAN
DC_DET
MUTE_H
+15V
HI_L
HI_R
DCDET
+15V
DC_DET
Q5801
B1ABCF000176
Q5810
B1ABCF000176
R9531
0
R9532
0

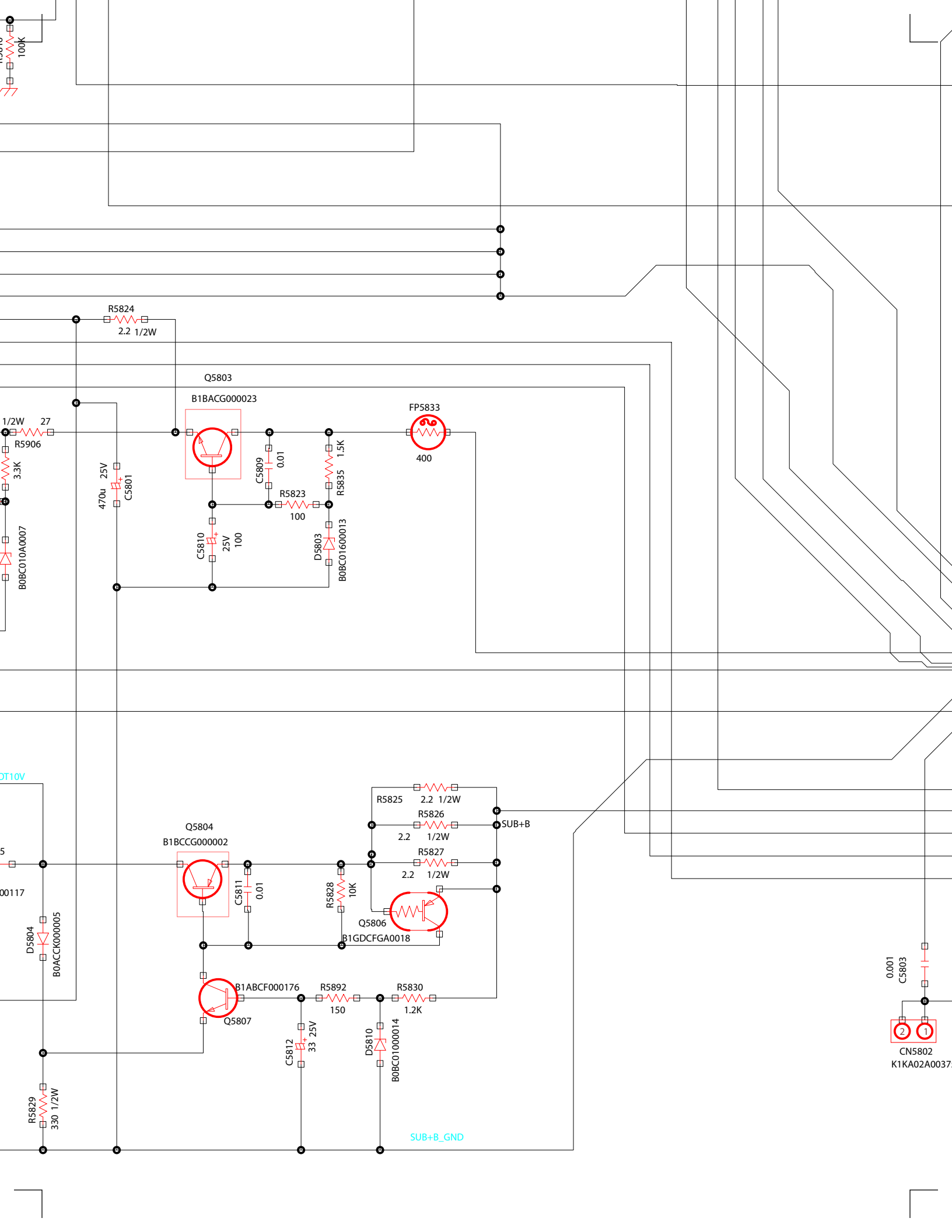

OUT_R
FROUT_R
+VccH
R5205
ERDS1FVJ100T
1/2W
C5203
0.1
C5202
0.1
JK9503
REJM0001
FR
GND
LOW_R
GND
JK9501
REJM0001
FL
GND
LOW_L
GND
R5204
180K
R5203
10K
R5104
180K
R5103
10K
C5102
0.1
C5103
0.1
R5105
10
1/2W
R9534
0
R9535
0
C5602
0.1
C5603
0.1
R5605
10
1/2W
C5702
0.1
C5703
0.1
R5705
10
1/2W
W2A
R5604
180K
R5603
22K
R5704
180K
R5703
22K
NC
NC
SUB_IN
SUR_R_IN
CENT_IN
SUR_L_IN
GND1
LOW_L_OUT
LOW_R_OUT
H5900
K1YF10000006
K1YF10000006
H5804
R9536
0

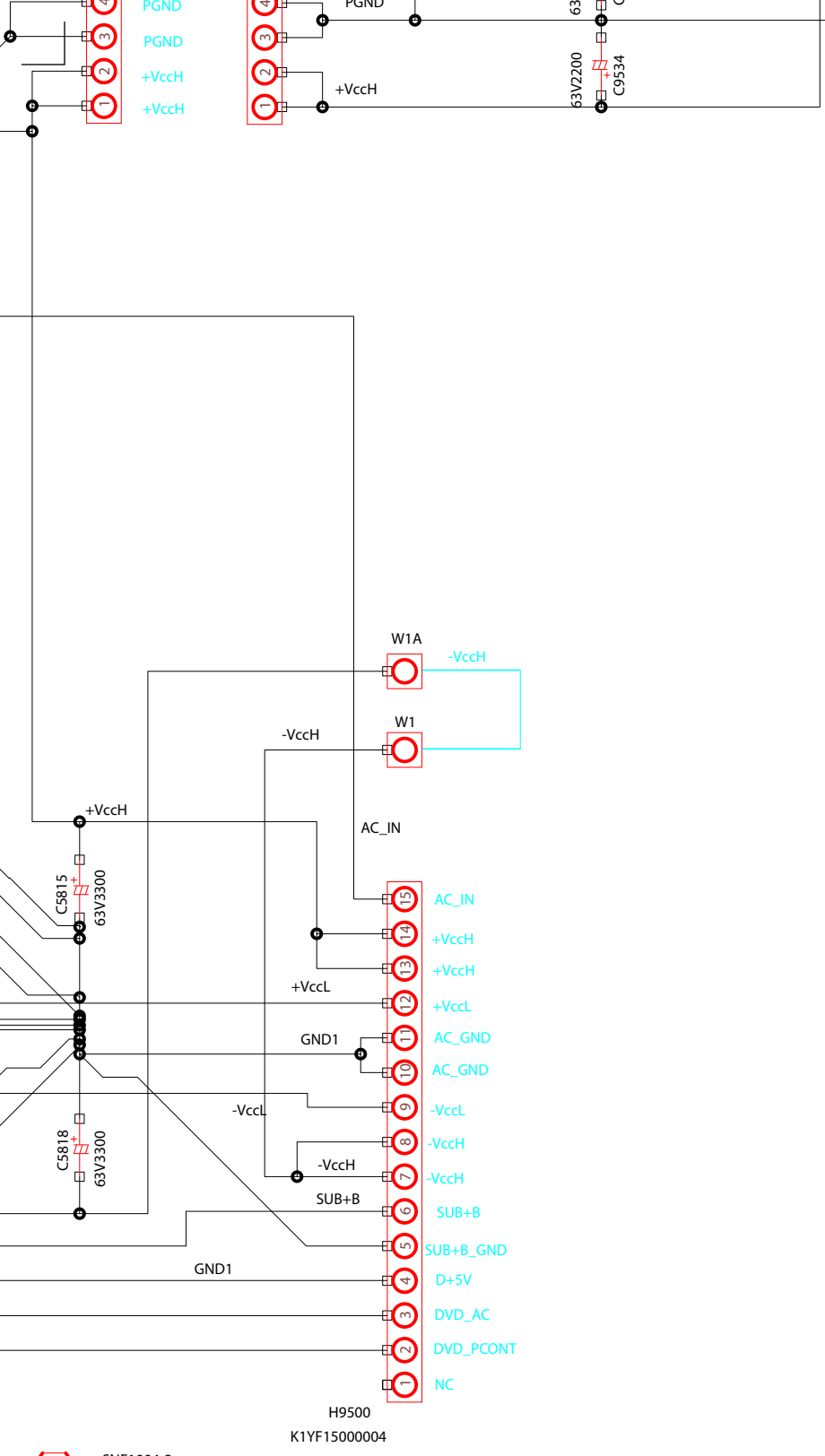

Sym
Date
IC5002
RSN35H2B-P
LOW CHANNEL
+IN_R
+IN_R
IN GND
+IN_L
-IN_L
GND
-VccM
MUTE C
AC DET
LATCH
OUT_L
-Vcc
+Vcc
OUT_R
R_IN
L_IN
LOW
LOWL OUT
LOWR OUT
C5600
820P
C5700
820P
R5702
56K
C5701
15p
R5602
56K
C5601
15p
C5837
10
R5819
330K
C5836
10
100V
D5802
B0BC01500006
R9600
6.8K
R9700
6.8K
R9533
0
-VccH
+VccH
R9610
0
R5601
15K
R5701
15K
NC
NC
SUB_IN
SUR_R_IN
CENT_IN
SUR_L_IN
GND1
LOW_L_OUT
LOW_R_OUT
IC5801
-VD
+VD
-IN 2 1
-IN 2 2
IN GND
-IN 1 1
SL
SR
C IN
R5501
3.9K
R5401
2.7K
R5301
2.7K
SUR_R_IN
CENT_IN
SUR_L_IN
R5709
15K
R5500
15K
R5400
15K
R5300
15K
820P
C5303
820P
C5403
820P
C5500
H5901
K1YF10000006
H5803
K1YF10000006
LATCH
AC_DET
DC_DET
FAN_DET
-VCCM
-VccH
GND1
+VccM
+VccH
C2200
C9533

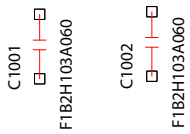
evision	A 1	A 2	B	X	Y	Changed From	Signd	Checked	Approved



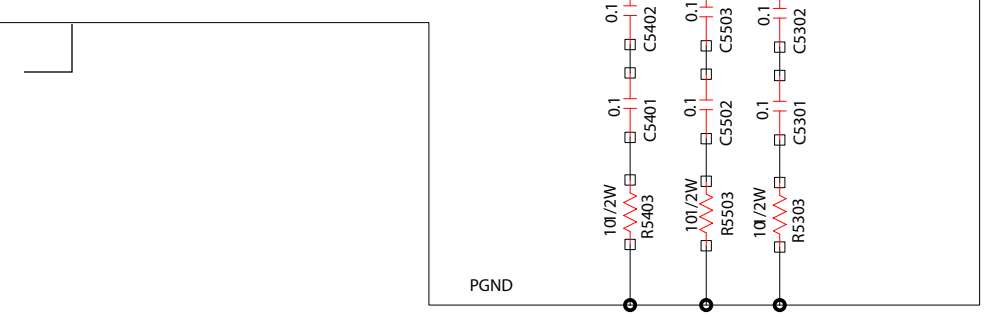

A_GND
CENTER
S.WOOFER
LS
RS
TGND
R5507
0
CN5801
K1KA12A00184
(RJT057G12)
TO MAIN
P GND
FL_GND
uP_GND
TL_GND
CD8V
DVD_PCONT
DVD_AC
D+5V
MOTOR10V
+9V
-9V
SW5V
R9530
0
R9529
0
R9613
0
R9612
0
R9611
0
R9614
0
R9615
0
CD8V
MOT10V
+9V
C5808
16V
330
R5889
47K
470
R5811
R5810
2.7K
C5802
16V
330
R5890
47K
R5812
2.7K
-9V
Q5809
B1BACG000023
Q5805
B1ACCF000094
Q5802
B1BCCG000002
C5804
0.01
R5814
R5891
150
C5805
100
16V
D5801
R5991
0
C5806
0.01
R5813
3.3K
100K
R5815
1000P
C5814
6.3V220
C5813
D5809
B0ACCK000005
50V2.2
C5807
D5806
B0EAKM000117
Q5808
B1AAKD000014
SW5
1/2W
4.7
R5847
D580
B0EAKM0
0.01
C5819
5.63V
R5832
150
R5903
0
R5831
1.8k
B0BC5R6000003
D5821


100K
R5824
2.2 1/2W
Q5803
B1BACG000023
FP5833
400
1/2W 27
R5906
3.3K
B0BC010A0007
470u 25V
C5801
C5809 0.01
R5823
100
R5835 1.5K
C5810 25V 100
D5803
B0BC01600013
R5825 2.2 1/2W
R5826
2.2 1/2W
SUB+B
R5827
2.2 1/2W
Q5804
B1BCCG000002
C5811 0.01
R5828 10K
Q5806
B1GDCFGA0018
D5804
B0ACCK000005
B1ABCF000176
Q5807
R5892
150
R5830
1.2K
C5812 33 25V
D5810
B0BC01000014
R5829
330 1/2W
SUB+B_GND
0.001
C5803
CN5802
K1KA02A0037





Sym	Item or Code No.
Issued	Section
Pre 03/AGO/05	ELECTRONICS
Fin	



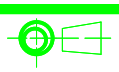
JK9502

K4BC06B00063

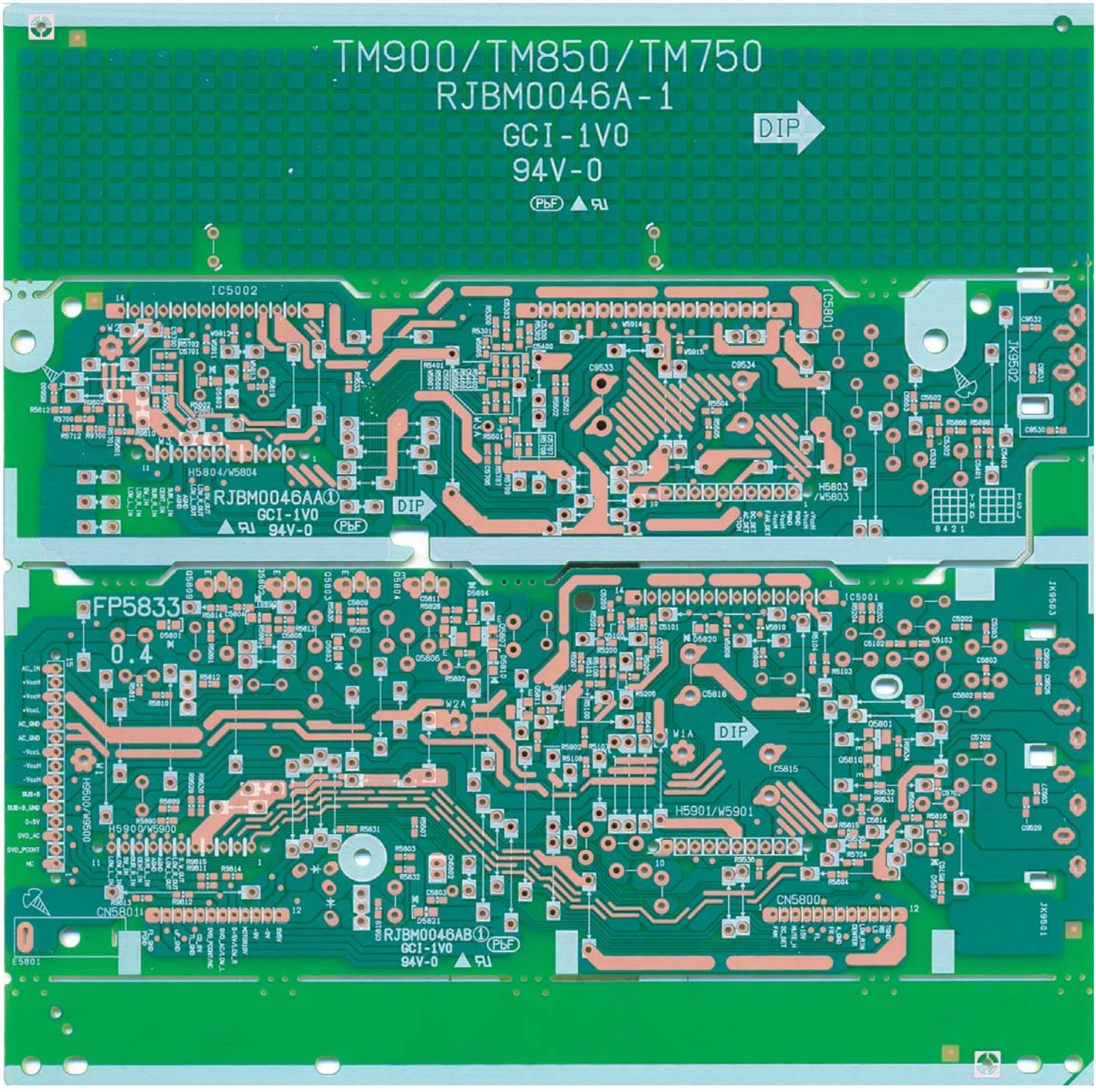
modified 03/AGO/2005

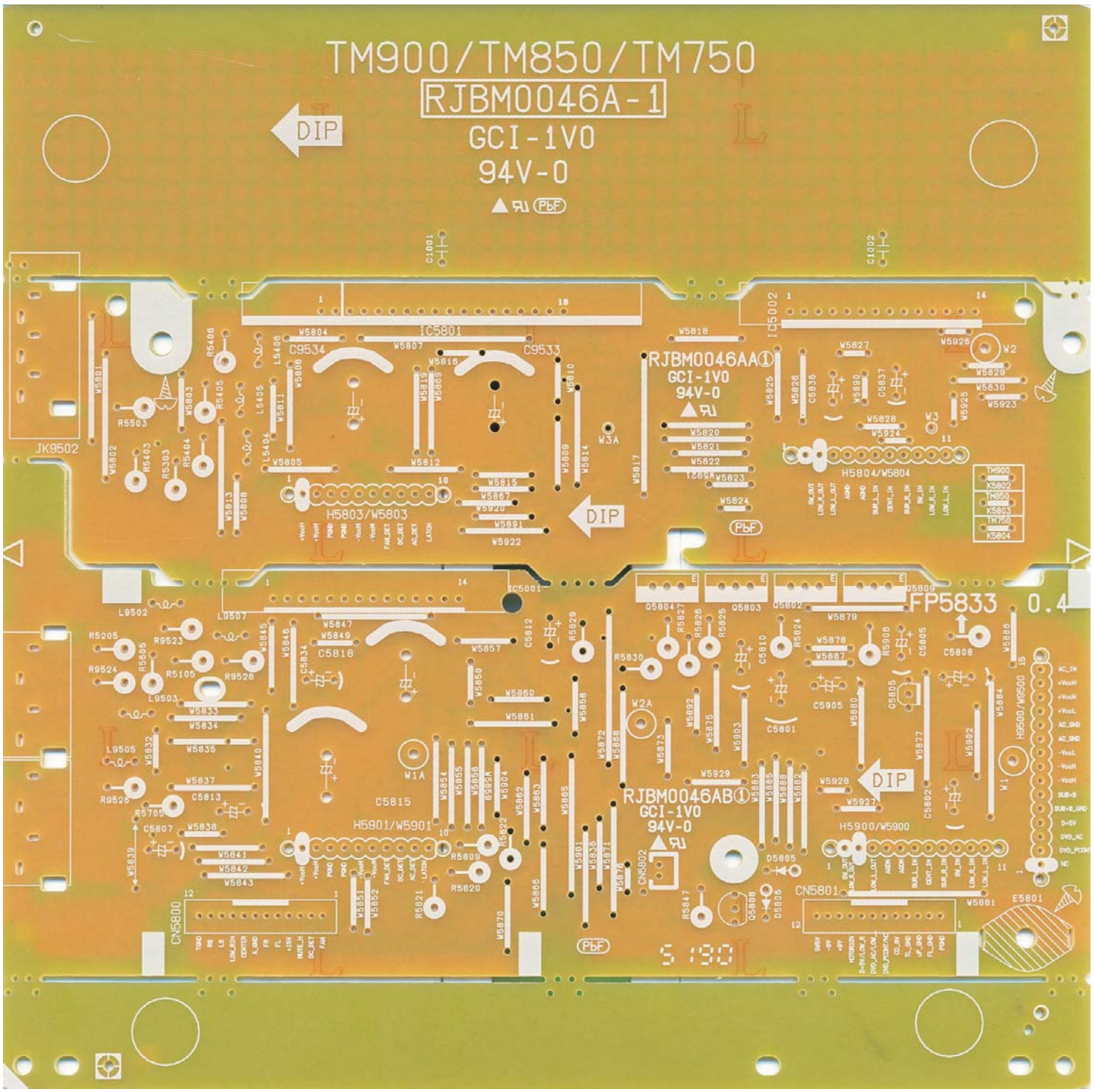
Material & Size	gt	PILOT RUN	New
Dic/Note		Model	SA-TM900DVD

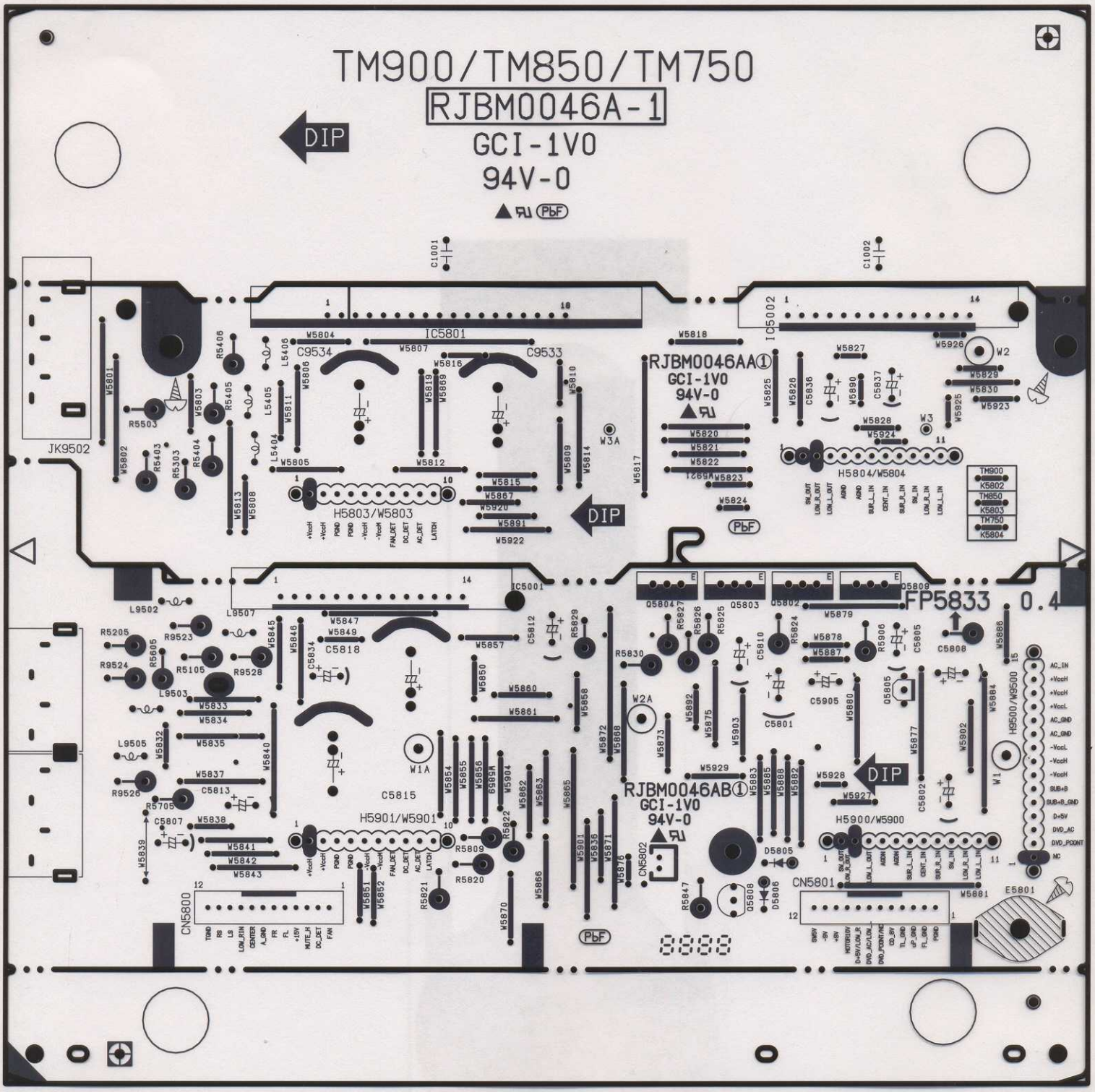
Checked	Approved	Parts no.	RJBM0046A-1
HSC	A.KOKEI	Name	POWER PCB

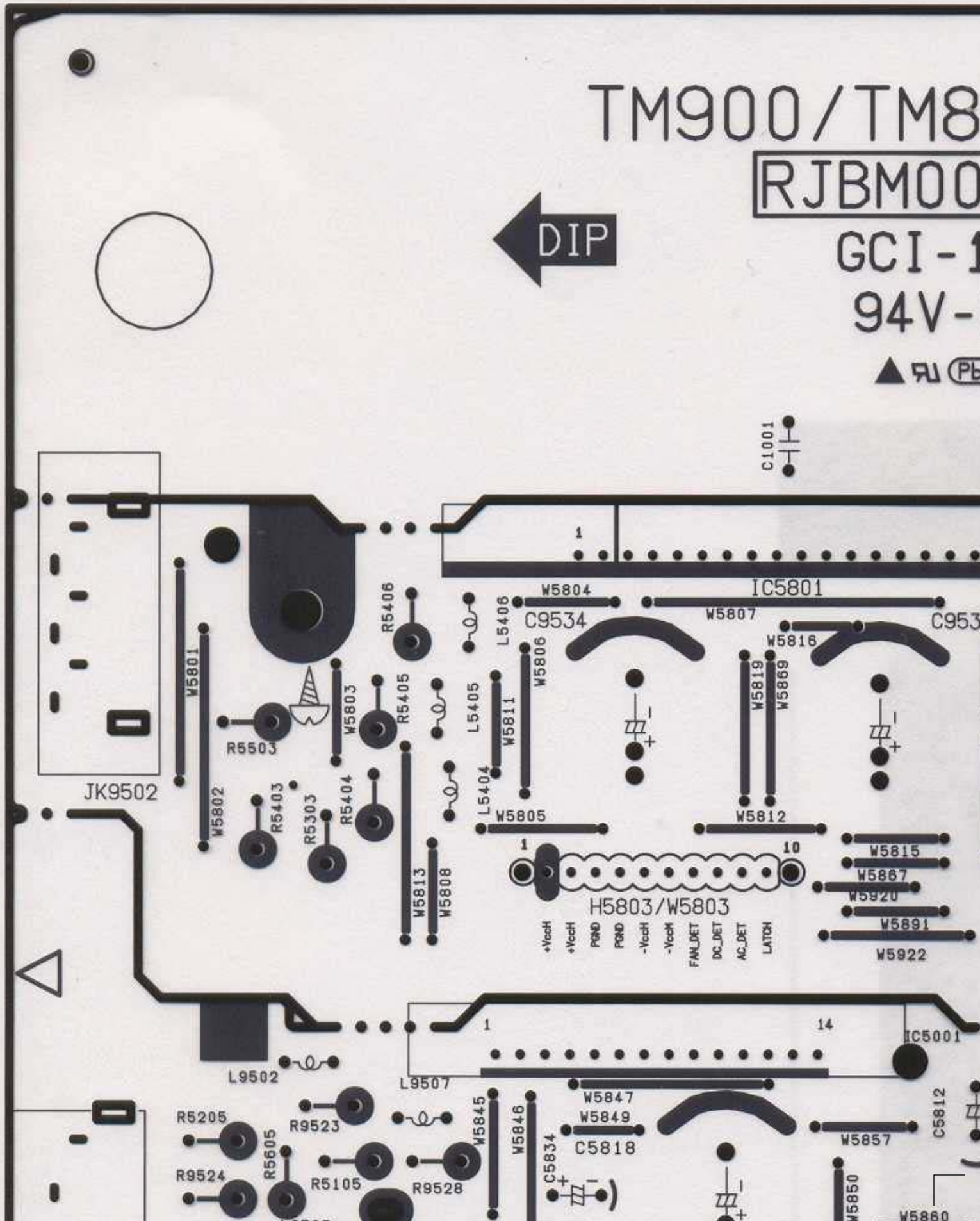


Unit : mm


TM900/TM850/TM750
RJBM0046A-1
GCI-1V0
94V-0
DIP
IC5002
IC5801
H5804/W5804
RJBM0046AA①
GCI-1V0
94V-0
H5803
/W5803
JK9502
FP5833
0.4
IC5001
H5900/W5900
H5901/W5901
CN5801
CN5800
RJBM0046AB①
GCI-1V0
94V-0
JK9503
JK9501


TM900/TM850/TM750
RJBM0046A-1
GCI-1V0
94V-0
DIP
RJBM0046AA①
GCI-1V0
94V-0
RJBM0046AB①
GCI-1V0
94V-0
FP5833
0.4
IC5801
IC5002
IC5001
JK9502
H5803/W5803
H5804/W5804
H5901/W5901
H5900/W5900
CN5800
CN5801
CN5802
PbF


TM900/TM850/TM750
RJBM0046A-1
GCI-1V0
94V-0
DIP
RJBM0046AA①
GCI-1V0
94V-0
RJBM0046AB①
GCI-1V0
94V-0
FP5833 0.4
IC5801
IC5002
IC5001
H5803/W5803
H5804/W5804
H5901/W5901
H5900/W5900
H9500/W9500
JK9502
CN5800
CN5801
CN5802
TM900 K5802
TM850 K5803
TM750 K5804
PbF


TM900/TM8
RJBM00
GCI-1
94V-
DIP
C1001
IC5801
W5804
W5807
C9534
C953
W5816
L5406
R5406
W5806
W5819
W5869
W5801
W5803
R5405
L5405
W5811
R5503
L5404
W5805
W5812
JK9502
W5802
R5403
R5303
R5404
W5813
W5808
H5803/W5803
+VccH
+VccH
PGND
PGND
-VccH
-VccH
FAN_DET
DC_DET
AC_DET
LATCH
W5815
W5867
W5920
W5891
W5922
IC5001
L9502
L9507
W5847
W5849
C5818
W5857
C5812
R5205
R9523
W5845
W5846
C5834
R9524
R5605
R5105
R9528
W5850
W5860

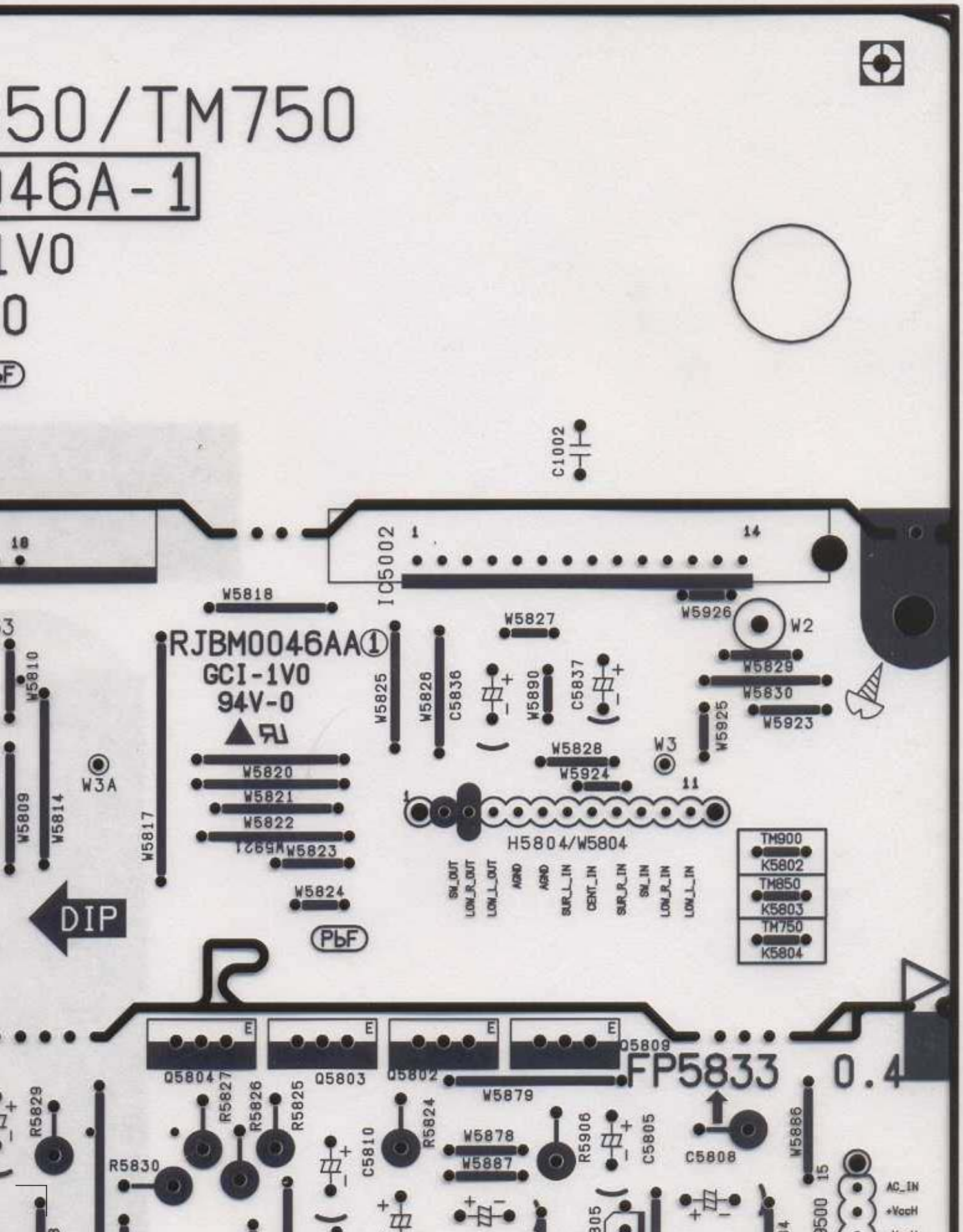
HOLE LOCATION 100.015% +0.23MM

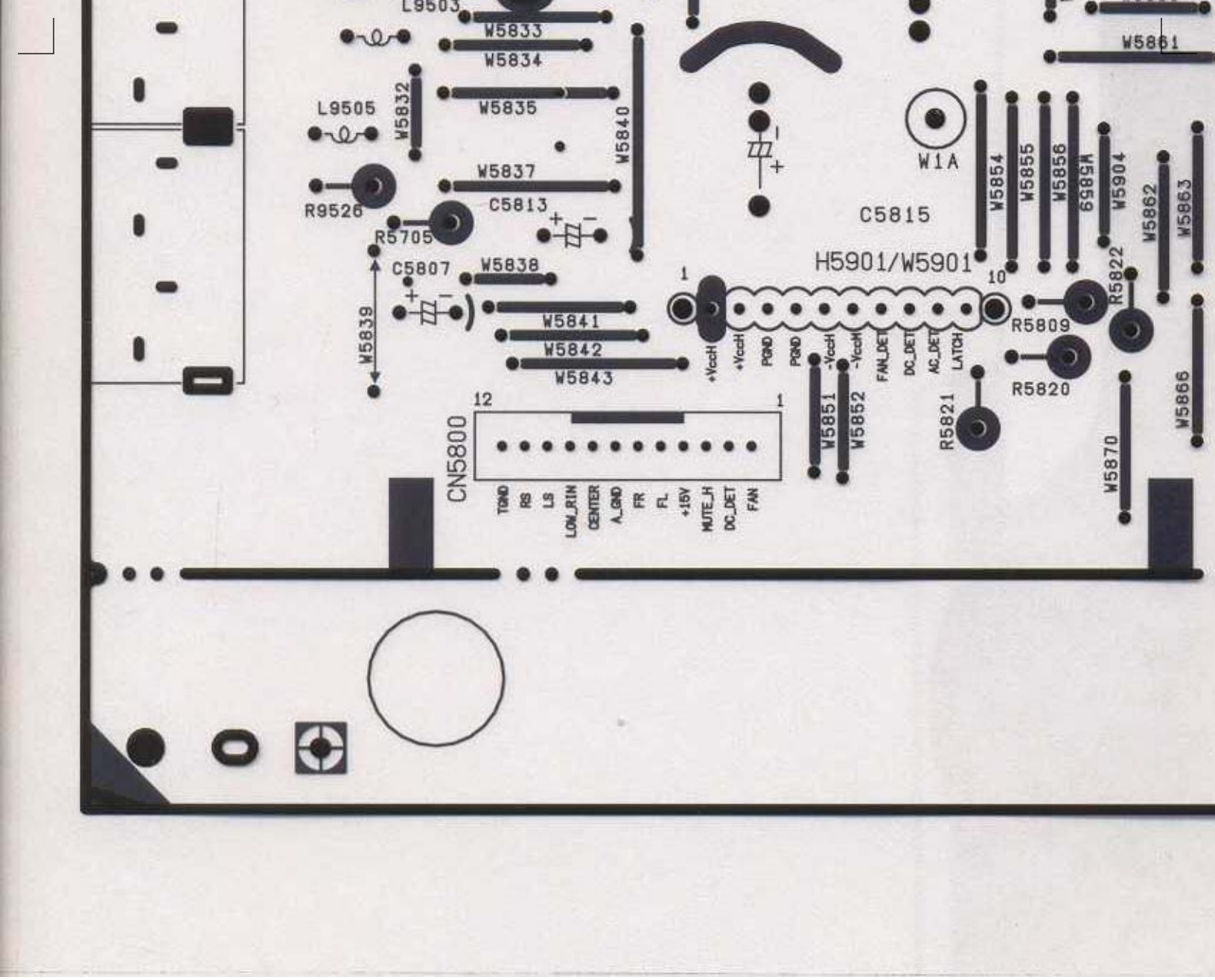
50/TM750

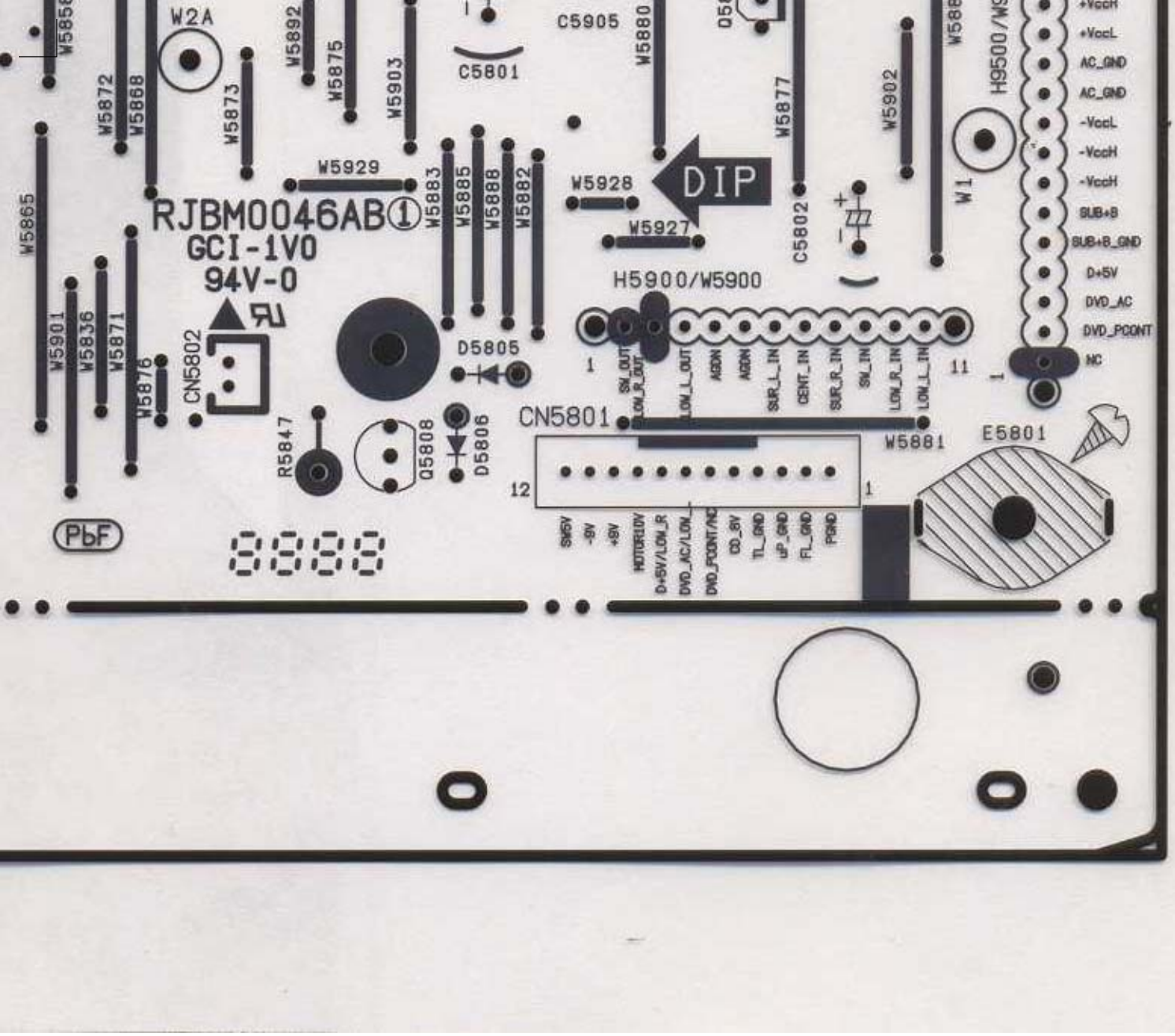
046A-1

1V0

0




L9503
W5833
W5834
L9505
W5832
W5835
W5840
W5837
R9526
C5813
R5705
C5807
W5838
W5839
W5841
W5842
W5843
W1A
C5815
W5854
W5855
W5856
W5859
W5904
W5862
W5863
W5861
H5901/W5901
1
10
R5822
R5809
R5820
R5821
W5851
W5852
W5870
W5866
+VccH
+VccH
PGND
PGND
-VccH
-VccH
FAN_DET
DC_DET
AC_DET
LATCH
CN5800
12
1
TGND
RS
LS
LOW_RIN
CENTER
A_GND
FR
FL
+15V
MUTE_H
DC_DET
FAN


RJBM0046AB①
GCI-1V0
94V-0
W2A
W5872
W5868
W5873
W5892
W5875
W5903
C5801
C5905
W5880
W5877
W5902
W5588
H9500/W9
W1
W5865
W5901
W5836
W5871
W5876
CN5802
W5929
W5883
W5885
W5888
W5882
W5928
W5927
DIP
C5802
H5900/W5900
D5805
R5847
Q5808
D5806
CN5801
W5881
E5801
PbF
0000
+VccH
+VccL
AC_GND
AC_GND
-VccL
-VccH
-VccH
SUB+B
SUB+B_GND
D+5V
DVD_AC
DVD_PCONT
NC
SW5V
-9V
+9V
MOTOR/12V
D+5V/LOW_R
DVD_AC/LOW_L
DVD_PCONT/NC
CD_5V
TL_GND
uP_GND
FL_GND
PGND

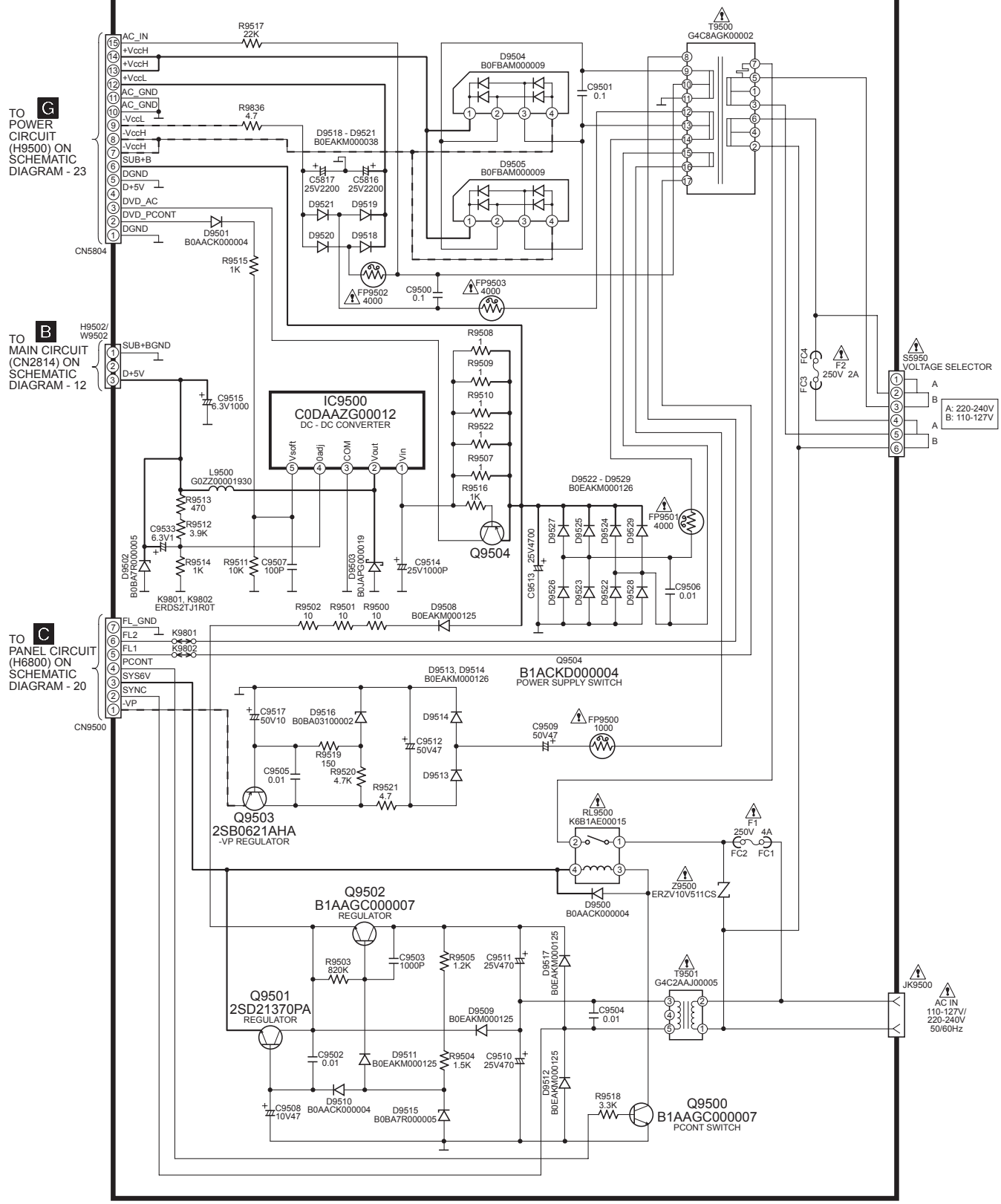
21.9. (I) Transformer Circuit

SCHEMATIC DIAGRAM - 25

I TRANSFORMER CIRCUIT

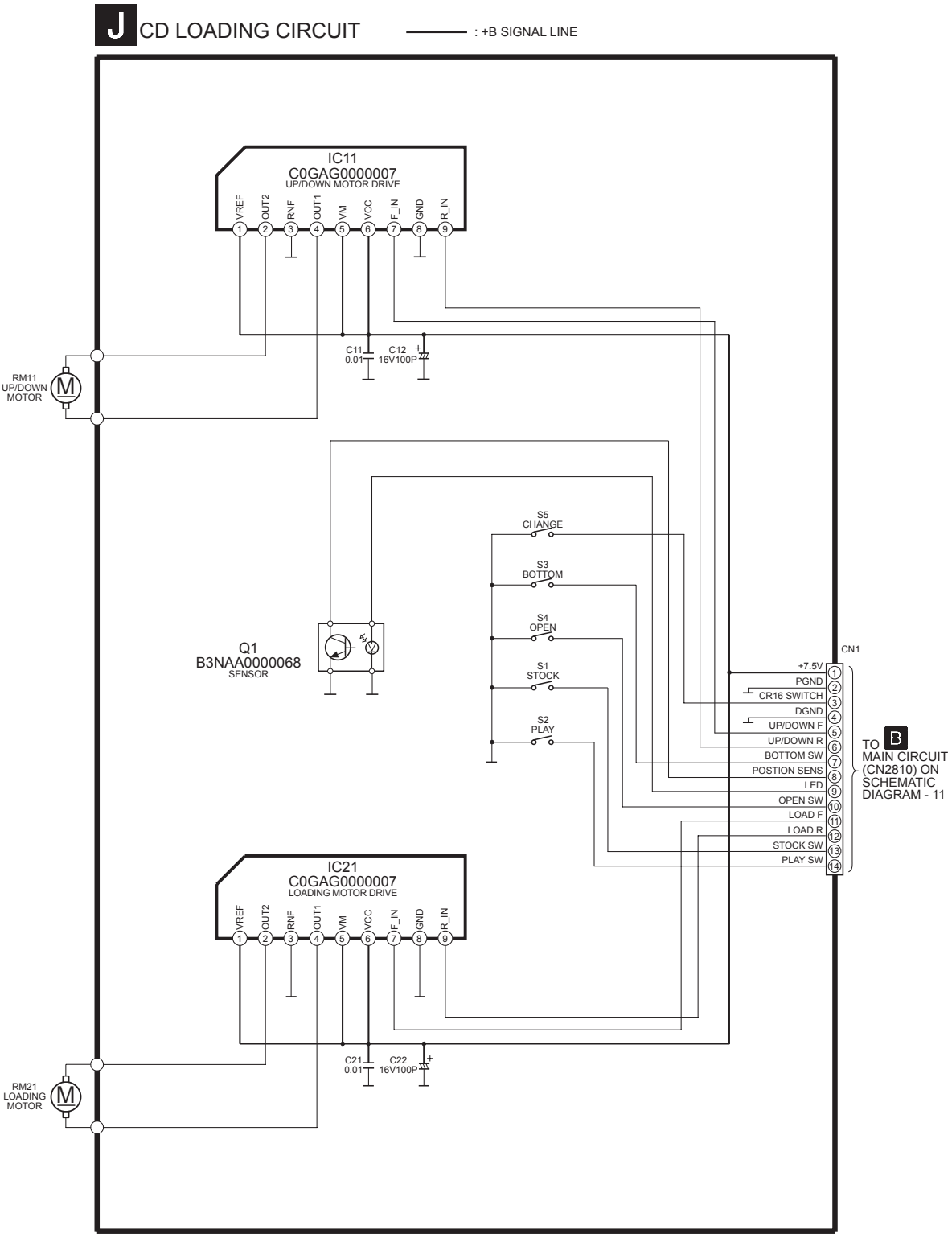
——— : +B SIGNAL LINE

- - - - : -B SIGNAL LINE



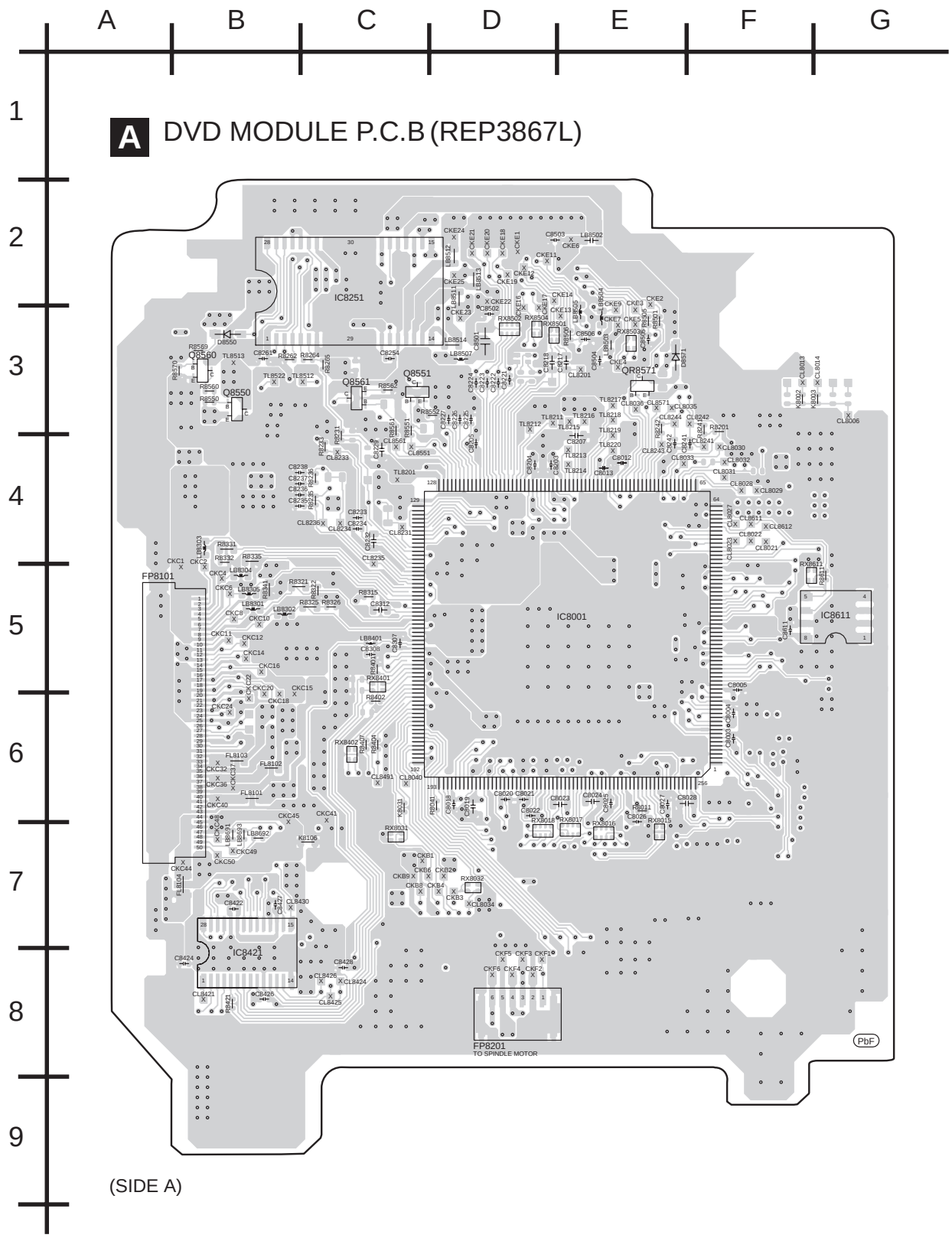
21.10. (J) CD Loading Circuit

SCHEMATIC DIAGRAM - 26



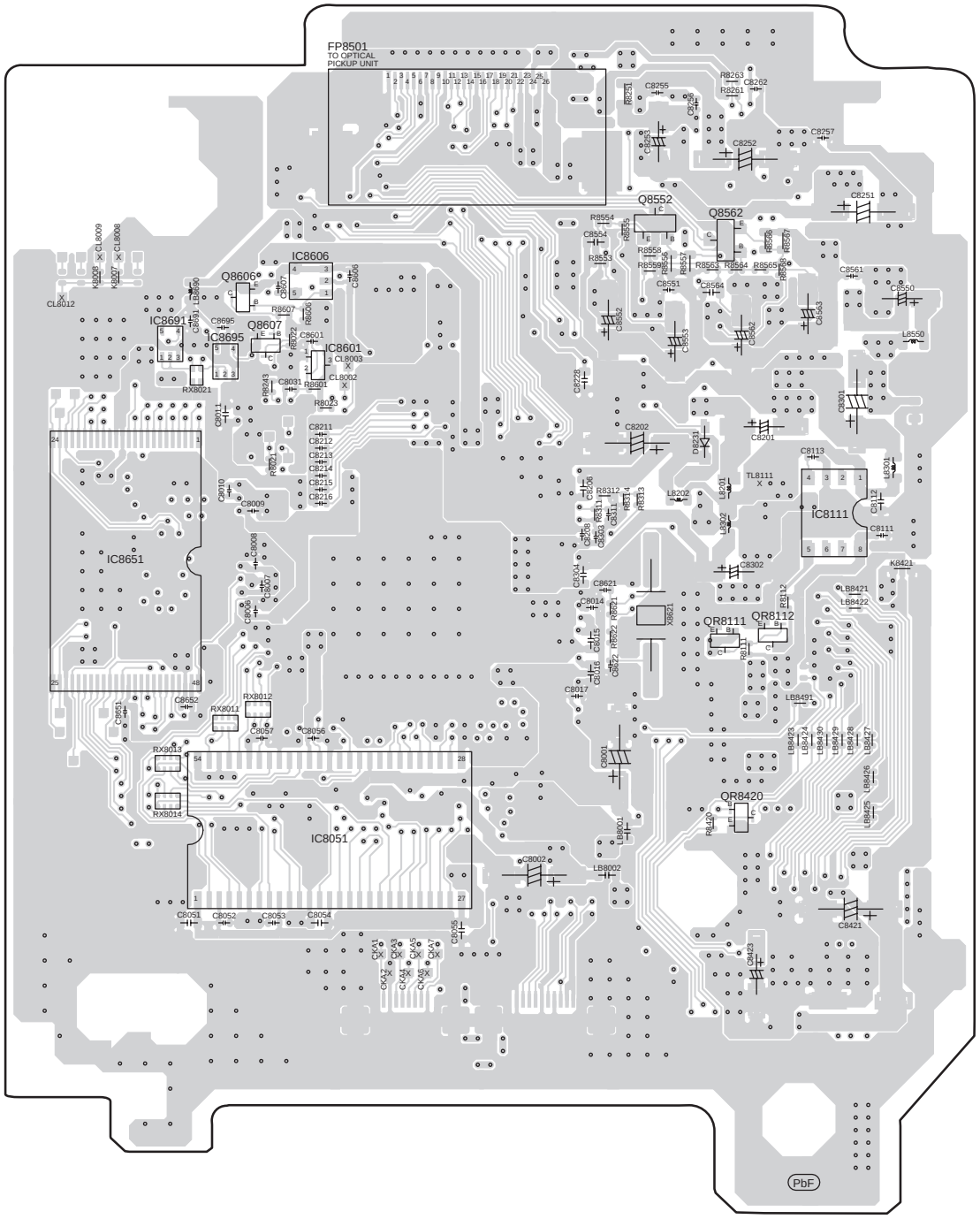
22 Printed Circuit Board

22.1. (A) DVD Module P.C.B. (Side: A & B)



(SIDE A)

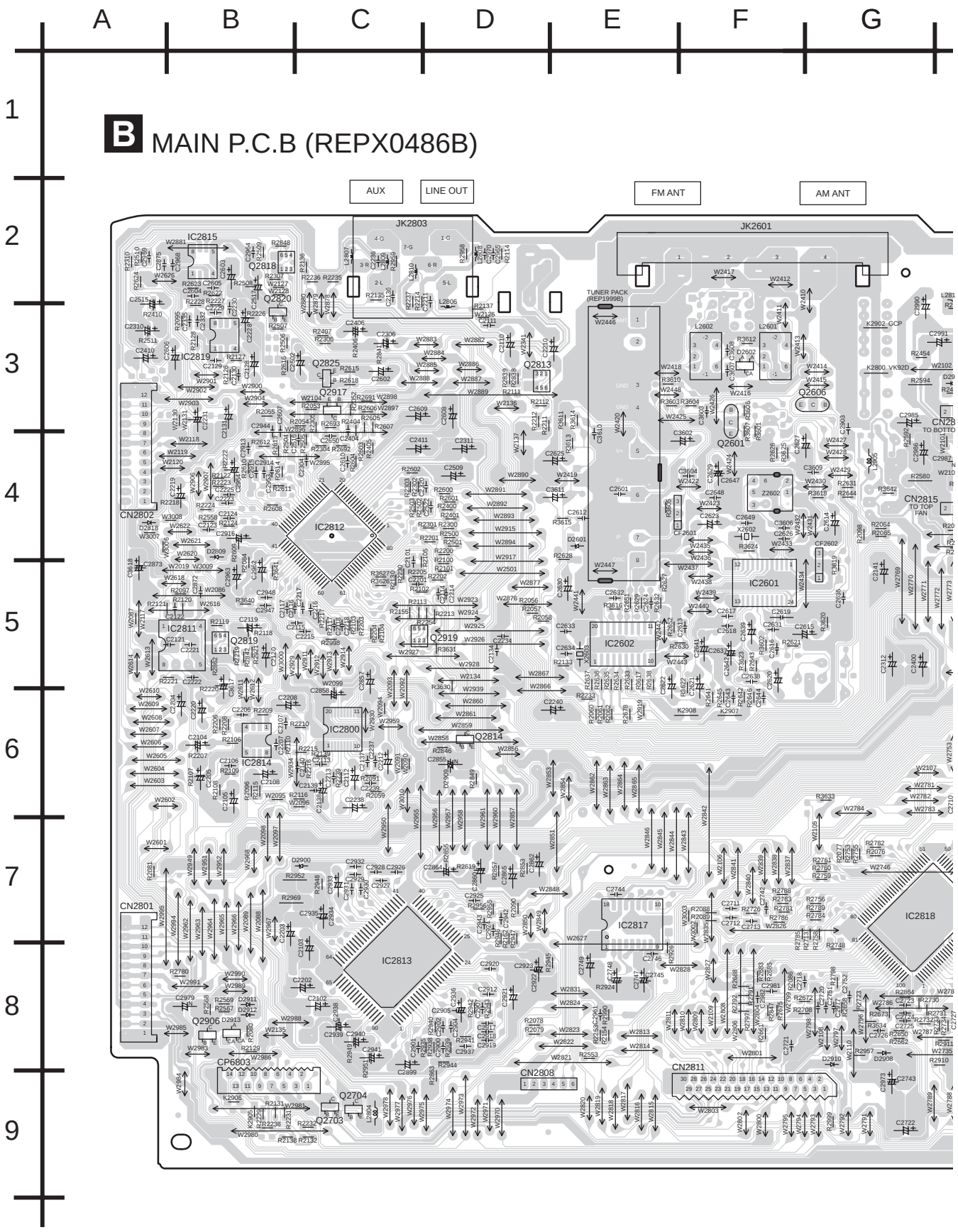
A DVD MODULE P.C.B (REP3867L)



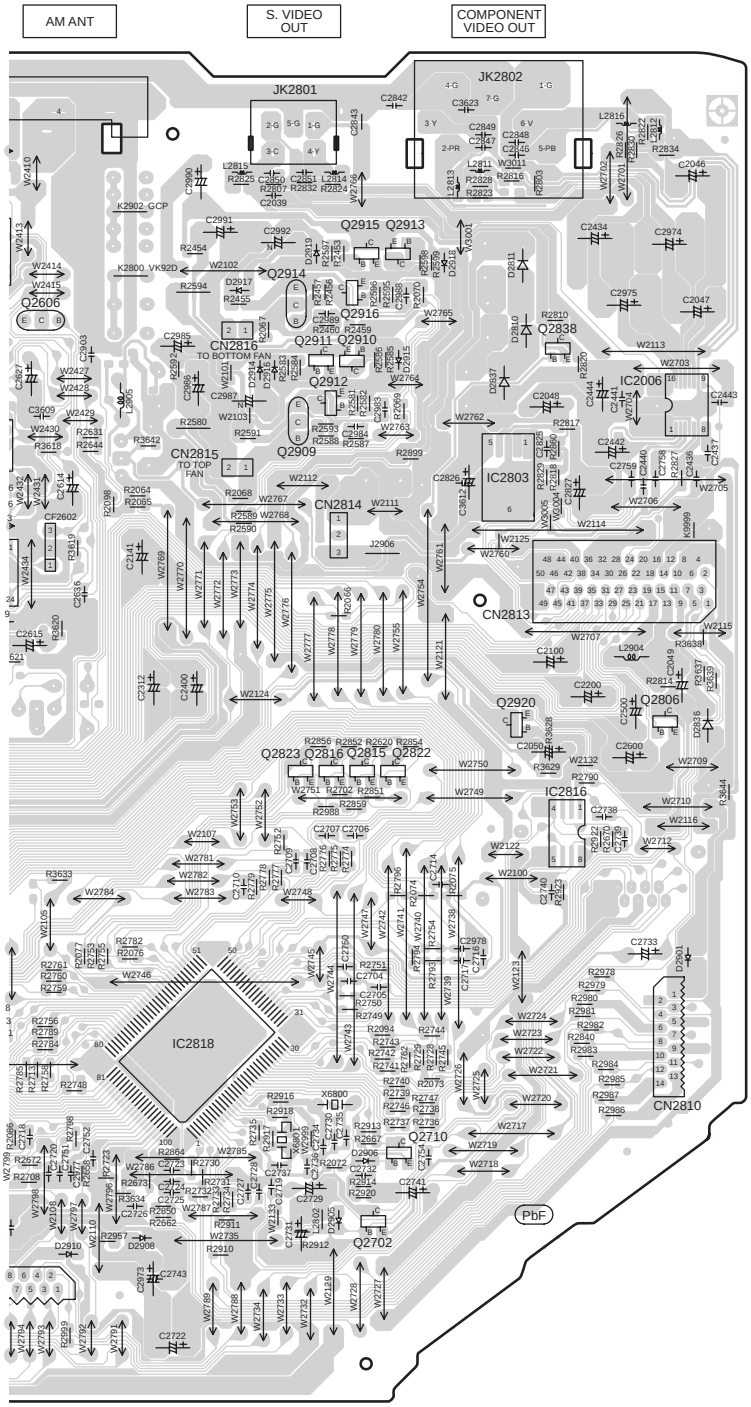
(SIDE B)

22.2. (B) Main P.C.B.

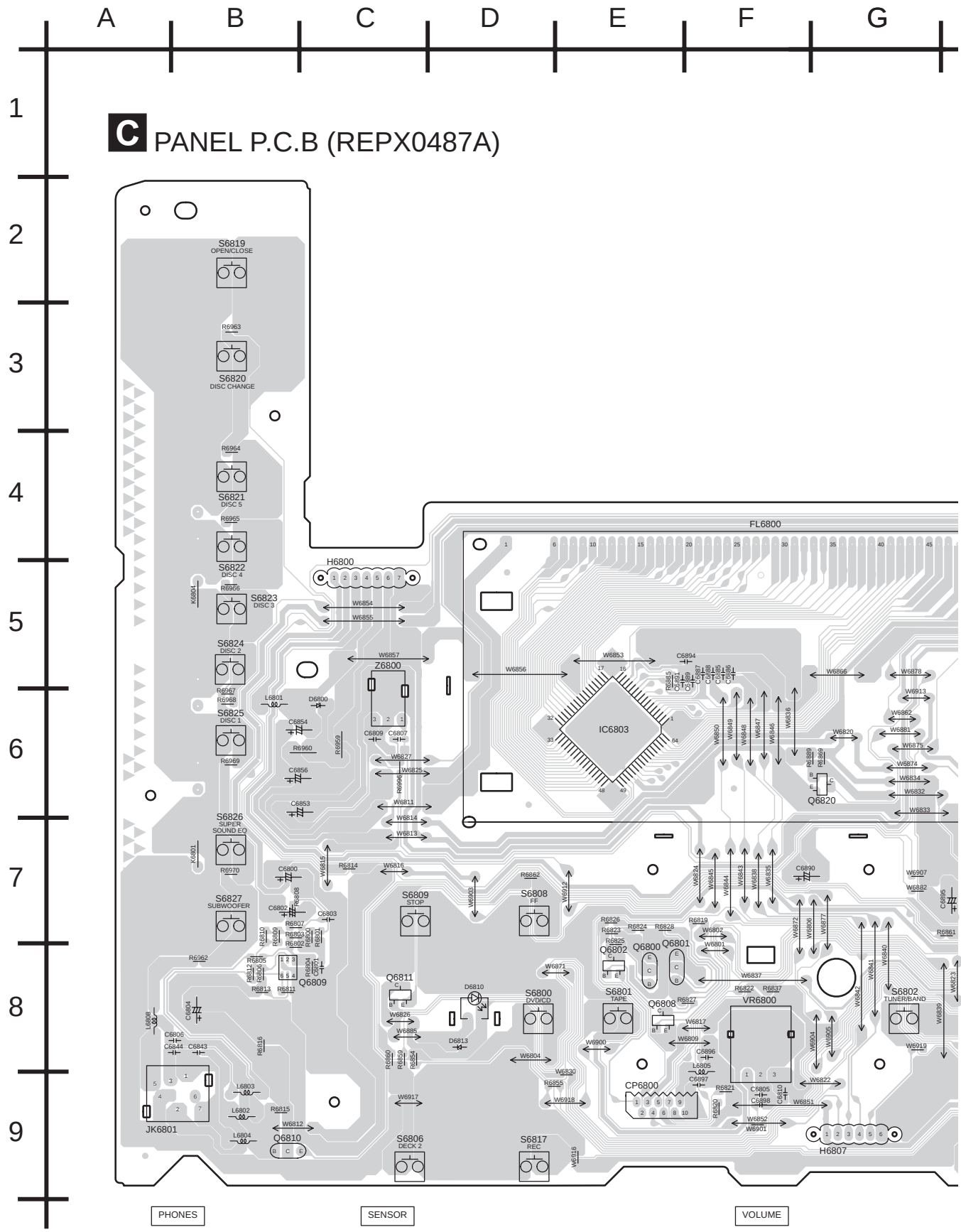
B MAIN P.C.B (REPX0486B)

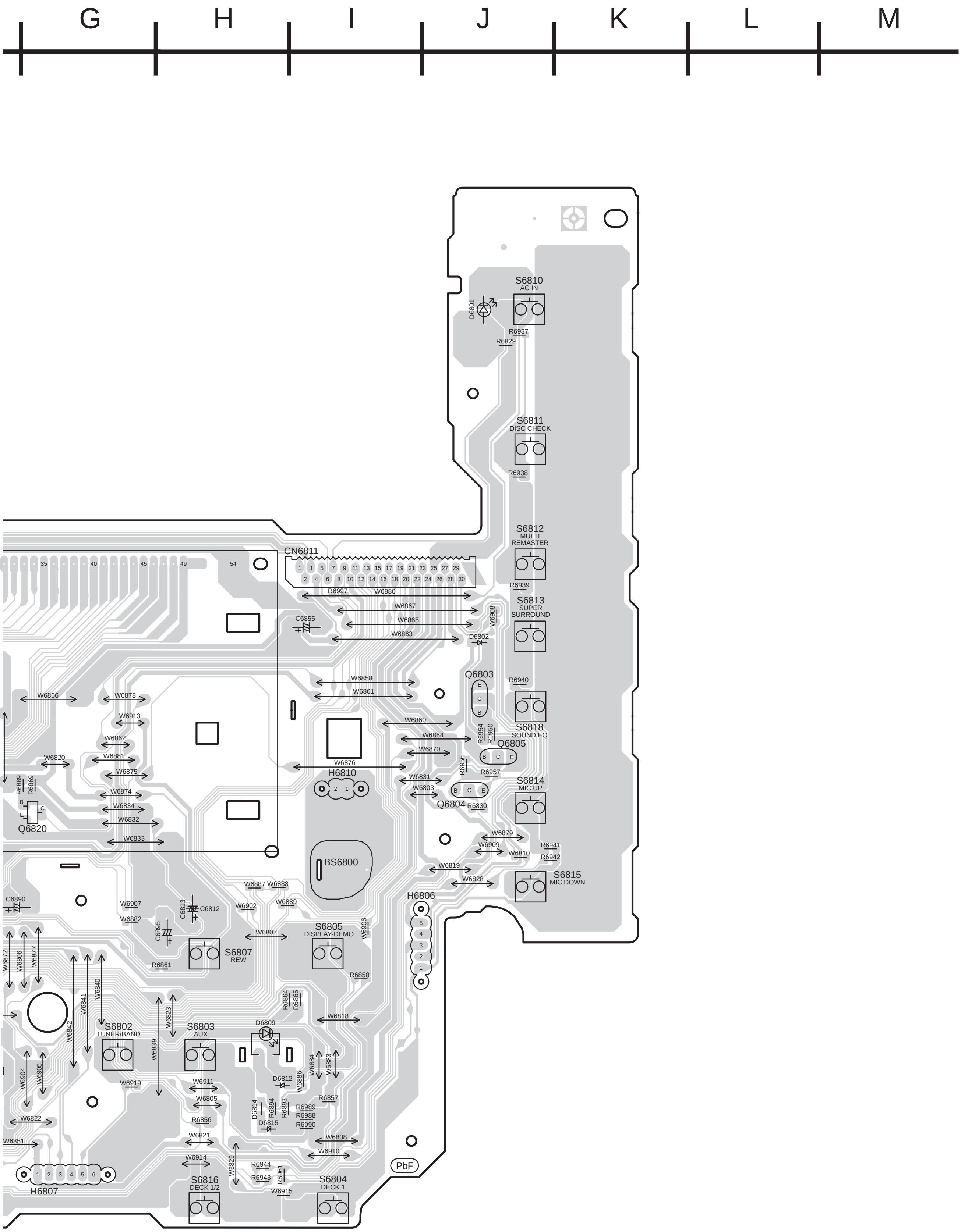


G H I J K L M


AM ANT
S. VIDEO OUT
COMPONENT VIDEO OUT
JK2801
JK2802
Q2606
Q2914
Q2915 Q2913
Q2916
Q2911 Q2910
Q2912
Q2909
Q2838
Q2710
Q2702
Q2920
Q2806
Q2823 Q2816 Q2815 Q2822
CN2816
TO BOTTOM FAN
CN2815
TO TOP FAN
CN2814
CN2813
CN2810
IC2803
IC2806
IC2816
IC2818
PbF

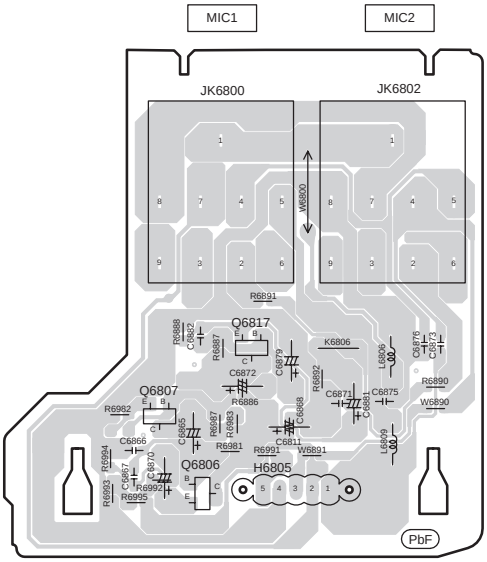
22.3. (C) Panel P.C.B.



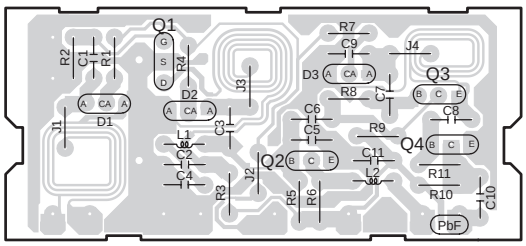

G
H
I
J
K
L
M
S6810
AC IN
D6801
R6937
R6829
S6811
DISC CHECK
R6938
S6812
MULTI
REMASTER
R6939
S6813
SUPER
SURROUND
CN6811
R6997
W6880
W6867
W6865
W6863
W6908
C6855
D6802
Q6803
R6940
W6858
W6861
W6866
W6878
W6913
W6860
W6864
W6870
S6818
SOUND EQ
Q6805
R6954
R6950
R6956
R6957
W6862
W6881
W6820
W6875
W6876
H6810
W6831
W6803
S6814
MIC UP
Q6804
R6830
R6889
R6869
Q6820
W6874
W6834
W6832
W6833
W6879
W6909
W6810
R6941
R6942
BS6800
W6819
W6828
S6815
MIC DOWN
H6806
W6887
W6888
C6890
W6907
C6813
C6812
W6902
W6889
W6882
C6895
W6807
S6805
DISPLAY-DEMO
W6906
S6807
REW
R6861
R6858
W6872
W6806
W6877
W6841
W6840
W6842
R6864
R6865
W6823
W6818
S6802
TUNER/BAND
S6803
AUX
D6809
W6839
W6884
W6883
W6904
W6905
W6919
W6911
D6812
W6886
R6857
W6805
D6814
R6894
R6893
R6989
R6988
R6990
D6815
W6822
R6856
W6821
W6808
W6851
W6910
W6914
W6829
R6944
R6943
R6961
PbF
H6807
S6816
DECK 1/2
W6915
S6804
DECK 1

22.4. (D) Mic P.C.B. & (K) Tuner Pack P.C.B.

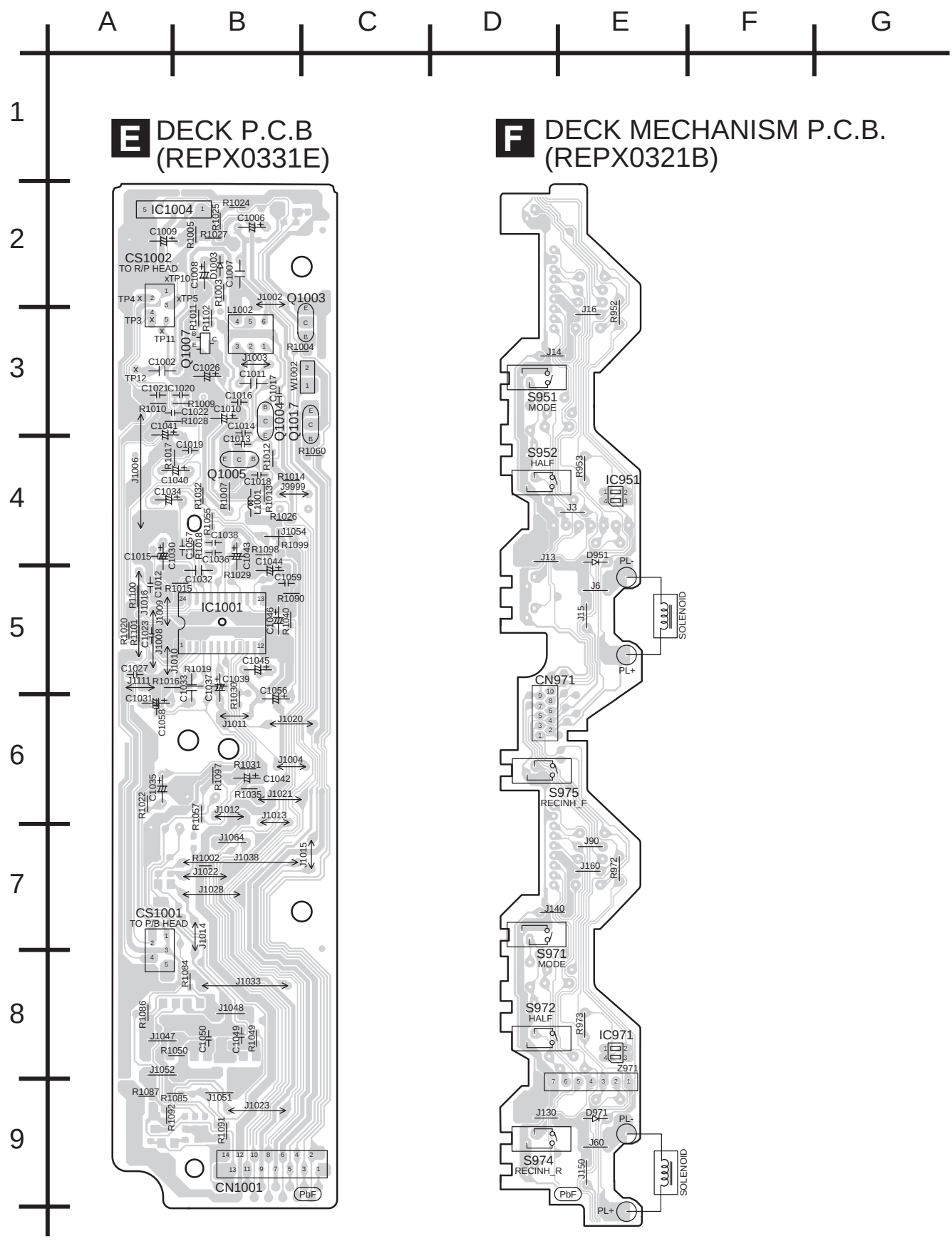
D MIC P.C.B (REPX0487A)



K TUNER PACK P.C.B (REP1999B)

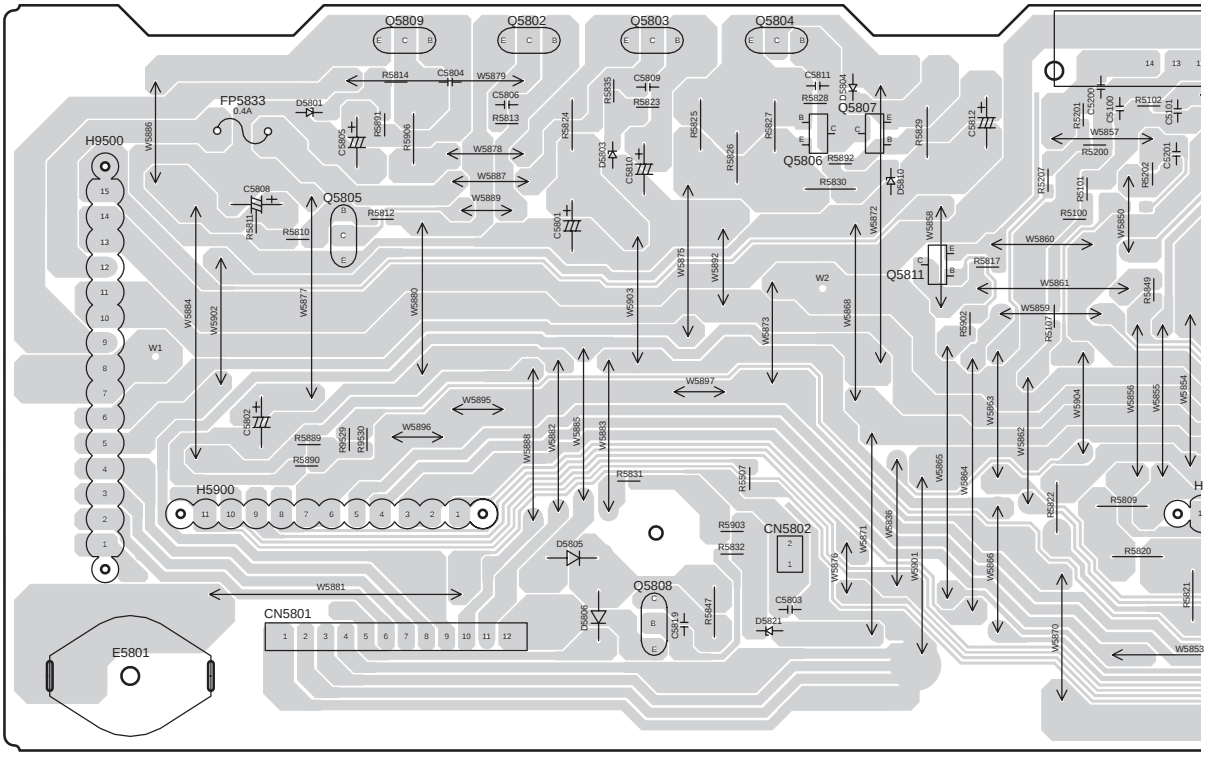


22.5. (E) Deck P.C.B. & (F) Deck Mechanism P.C.B.

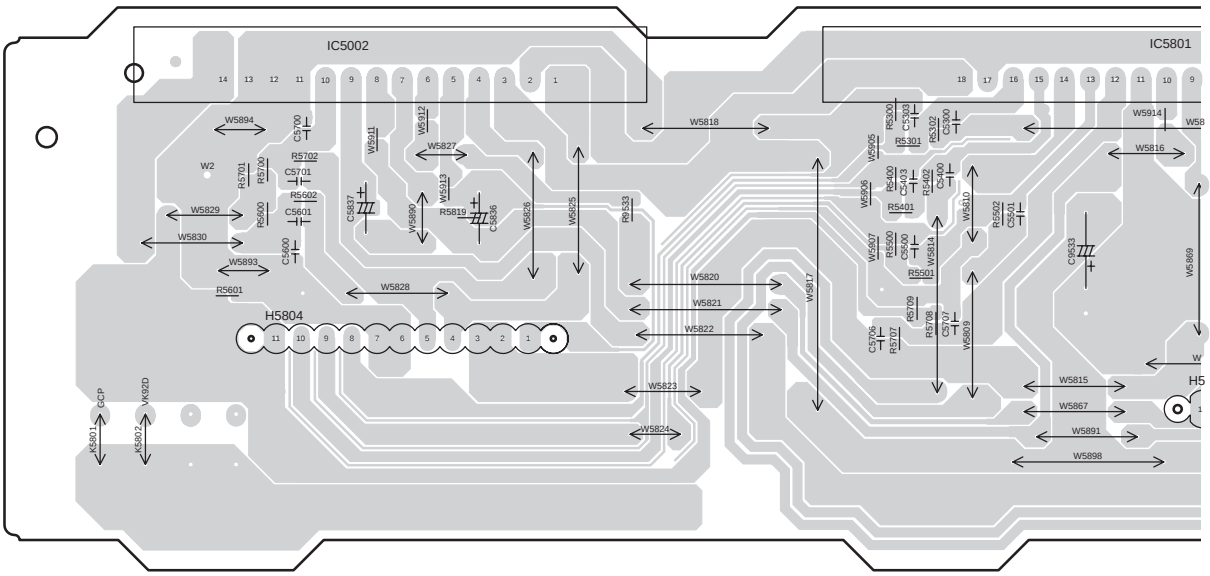


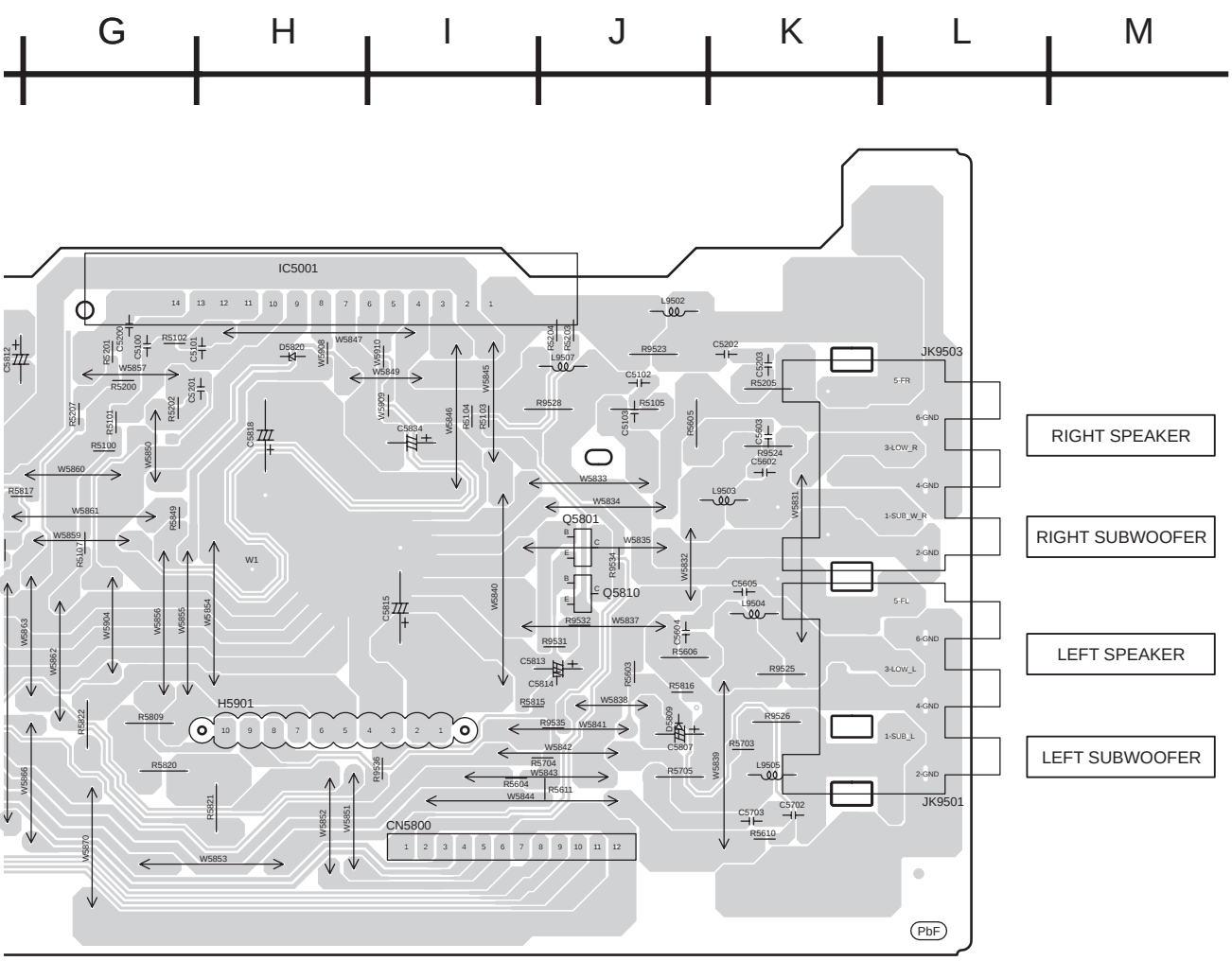
22.6. (G) Power P.C.B. & (H) Power Amp P.C.B.

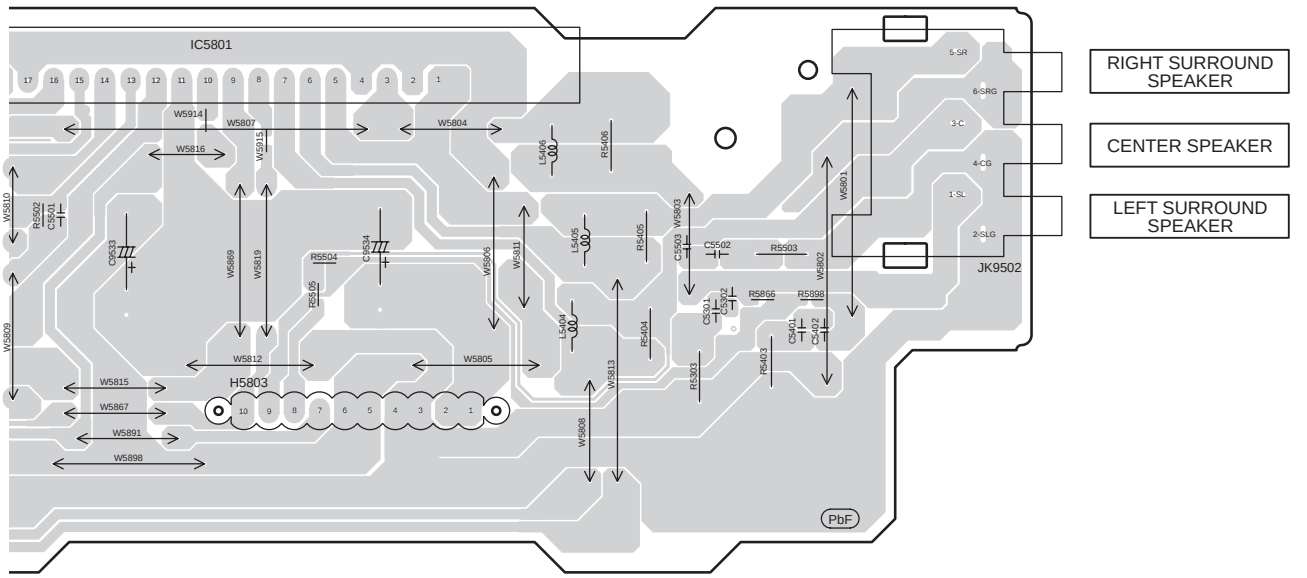
G POWER P.C.B (REPX0488A)



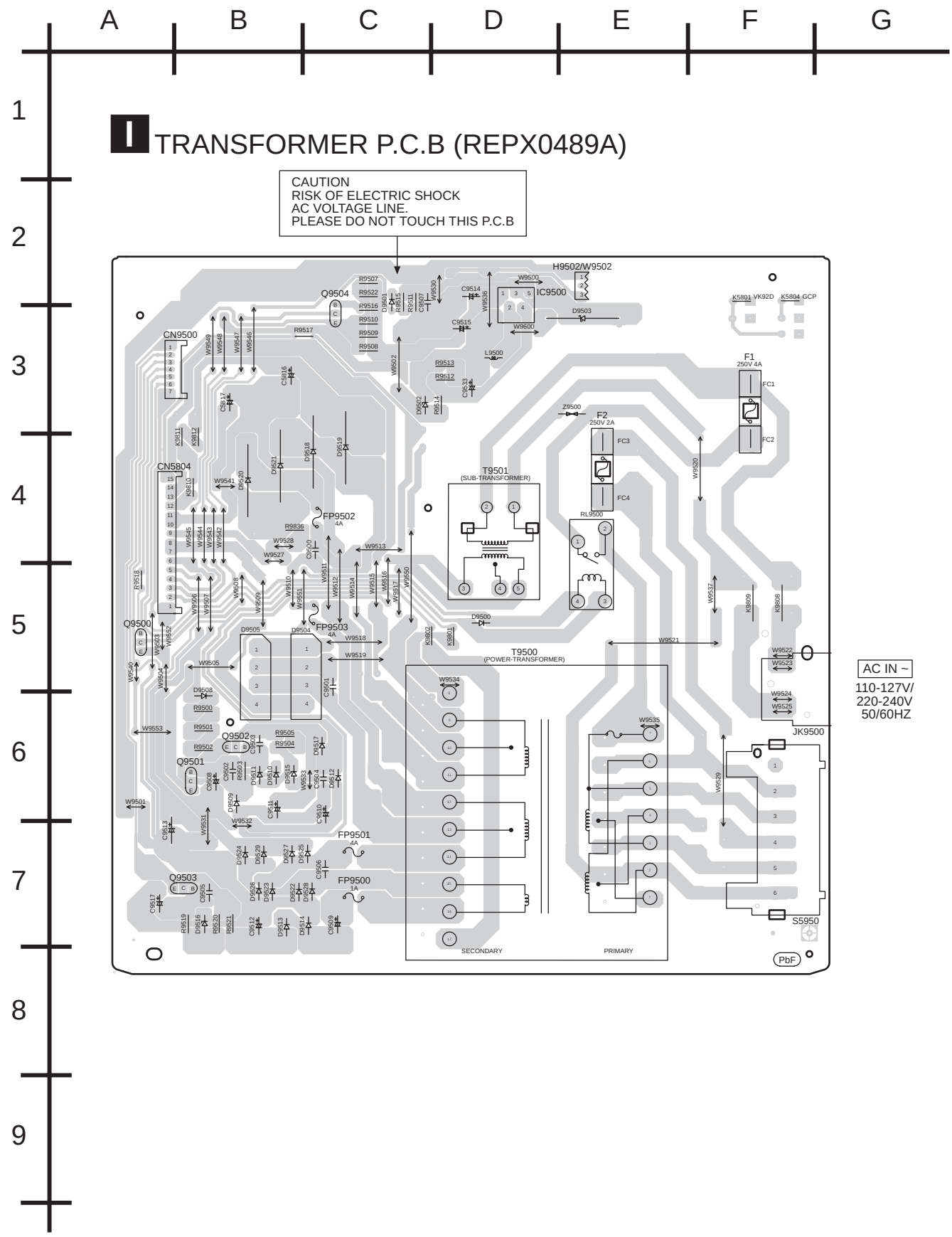
H POWER AMP P.C.B (REPX0488A)



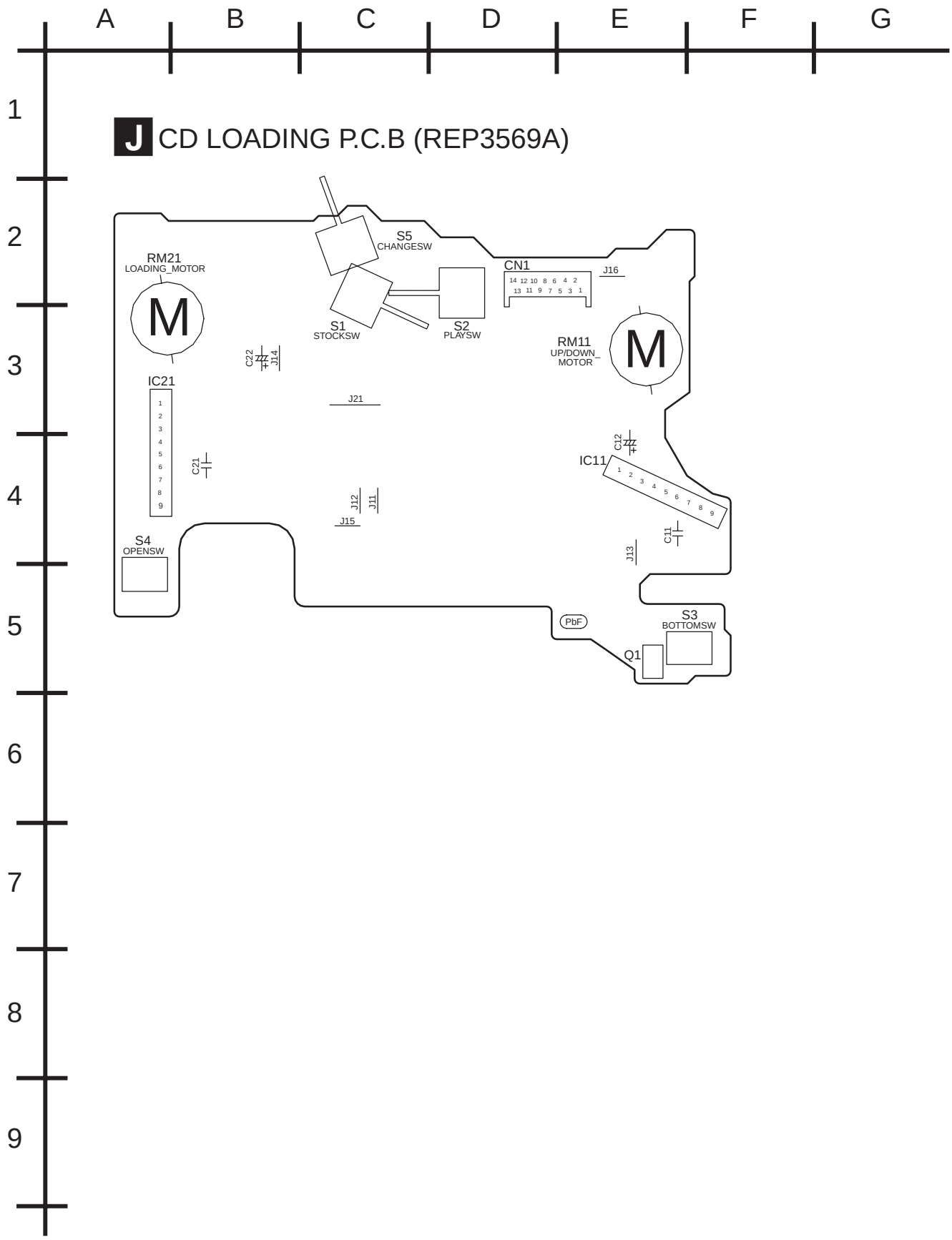

G
H
I
J
K
L
M
IC5001
JK9503
JK9501
Q5801
Q5810
H5901
CN5800
RIGHT SPEAKER
RIGHT SUBWOOFER
LEFT SPEAKER
LEFT SUBWOOFER
PbF


IC5801
JK9502
H5803
RIGHT SURROUND SPEAKER
CENTER SPEAKER
LEFT SURROUND SPEAKER
PbF

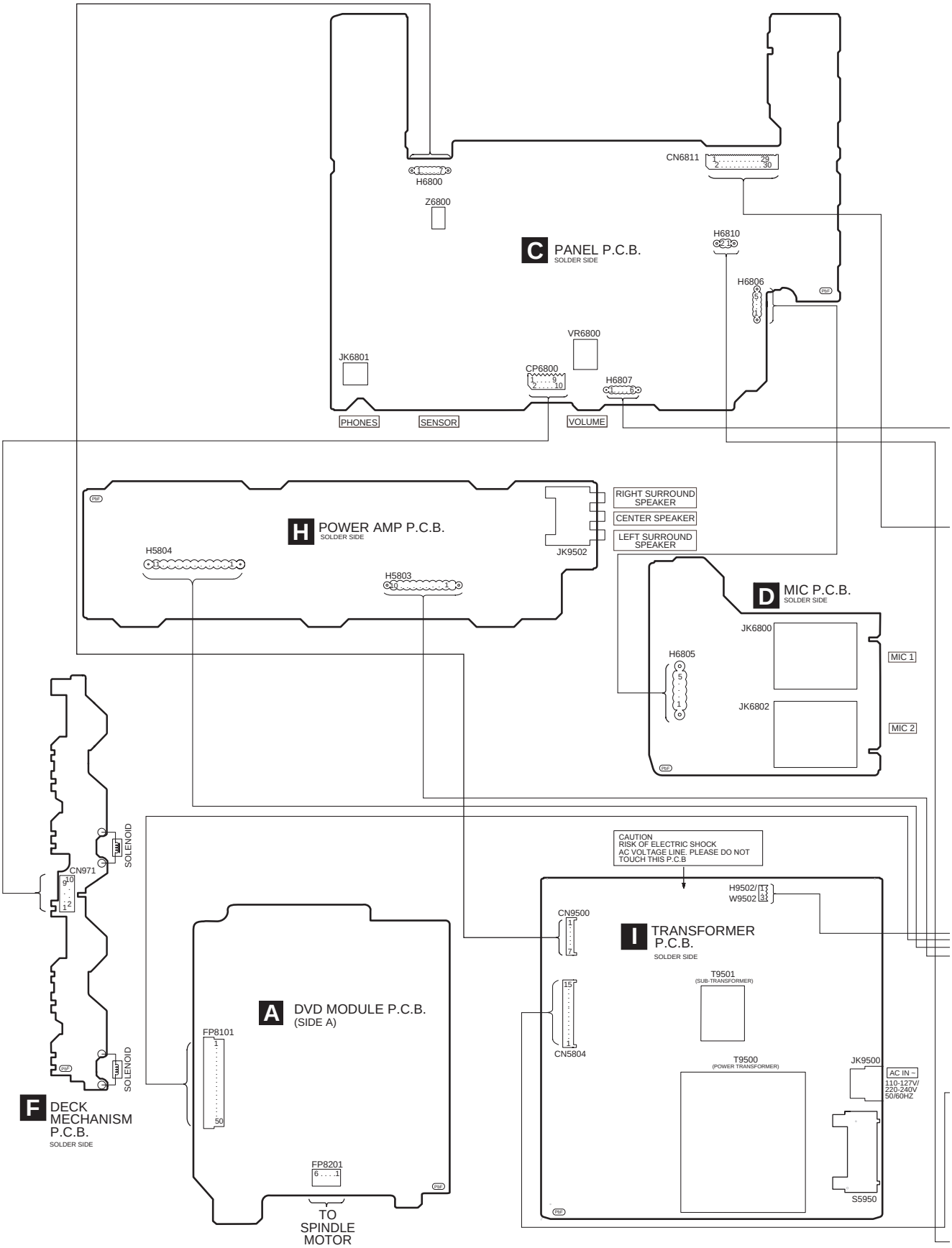
22.7. (I) Transformer P.C.B.

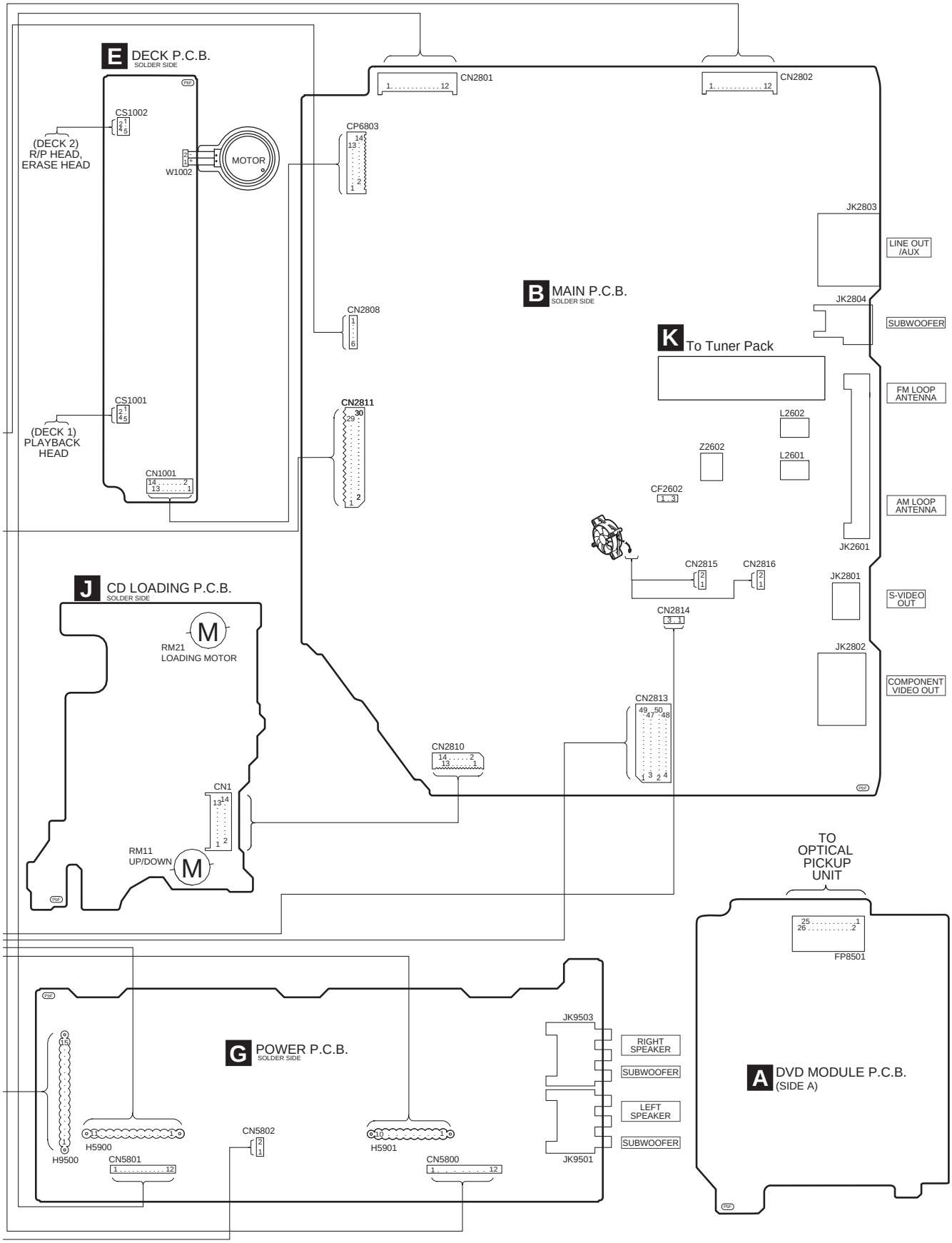


22.8. (J) CD Loading P.C.B.



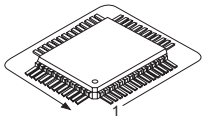
23 Wiring Connection Diagram



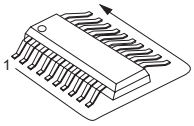

E DECK P.C.B.
SOLDER SIDE
CS1002
(DECK 2)
R/P HEAD,
ERASE HEAD
MOTOR
W1002
CS1001
(DECK 1)
PLAYBACK
HEAD
CN1001
CP6803
CN2808
CN2811
CN2801
CN2802
B MAIN P.C.B.
SOLDER SIDE
K To Tuner Pack
JK2803
LINE OUT
/AUX
JK2804
SUBWOOFER
FM LOOP
ANTENNA
AM LOOP
ANTENNA
JK2601
L2602
L2601
Z2602
CF2602
CN2815
CN2816
JK2801
S-VIDEO
OUT
CN2814
JK2802
COMPONENT
VIDEO OUT
CN2813
CN2810
J CD LOADING P.C.B.
SOLDER SIDE
RM21
LOADING MOTOR
CN1
RM11
UP/DOWN
TO
OPTICAL
PICKUP
UNIT
FP8501
G POWER P.C.B.
SOLDER SIDE
H9500
H5900
H5901
CN5801
CN5802
CN5800
JK9503
JK9501
RIGHT
SPEAKER
SUBWOOFER
LEFT
SPEAKER
SUBWOOFER
A DVD MODULE P.C.B.
(SIDE A)

24 Illustration of ICs, Transistors and Diodes

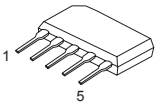
C0HBB0000039 (64P)
MN2DS0003APH (256P)
C2CBJG000653 (100P)
C1BB00000845 (56P)
C1BB00000801 (80P)



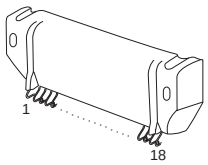
AN7348S-E1 (24P)
C0FBBK000050 (28P)
C1BB00000086 (18P)
C3ABPG000133 (54P)
KIA4558FEL(8P)
LA1833NMNTLM (24P)
LC72131MDTRM (20P)



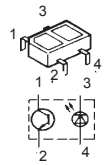
C1AA00000612



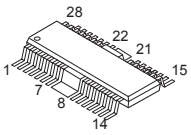
RSN315H42C-P



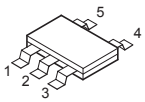
CNB13030R2AU



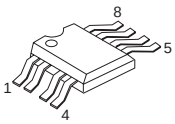
C0GBG0000048



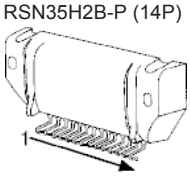
C0EBA0000031
C0JBAA000346



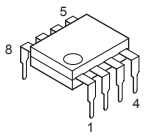
C0CBCBD00018 (8P)



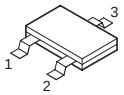
RSN35H2B-P (14P)



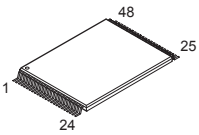
C0AABA000009



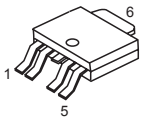
C0EBE0000384



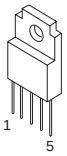
RFKWMH82H160



C0DBEZG00021 (6P)



C0DAAZG00012



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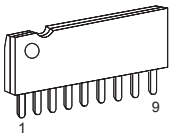

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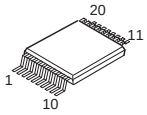

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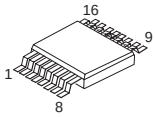

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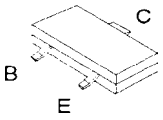

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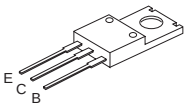

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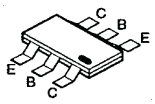

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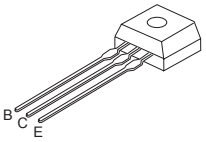

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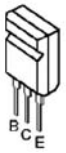

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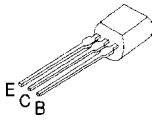

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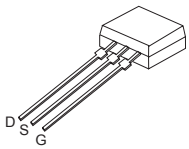

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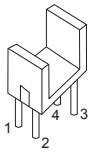

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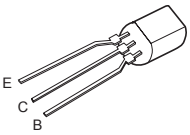

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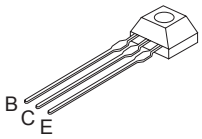

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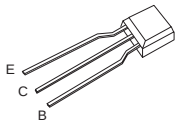

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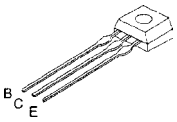

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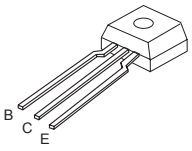

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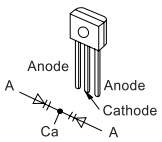

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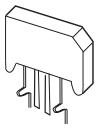

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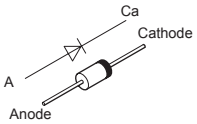

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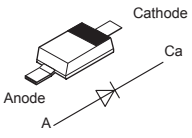

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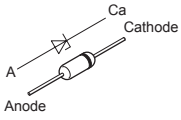

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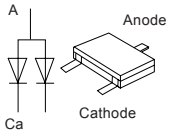

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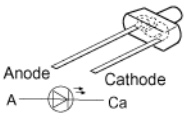

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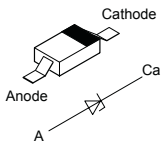

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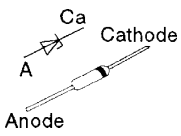

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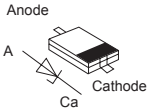
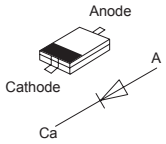
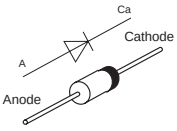
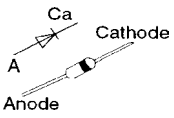


B0ACCK000005 MA2J72800L 	B0JAPG000019 	B0AACK000004 MA2C16500E 	

25 Terminal Function of IC

25.1. IC2818 (C2CBJG000653) System Microprocessor

Pin No.	Mark	I/O	Function
1	ST_SW	I	Stock Switch of Changer
2	OP/CL_REV	O	Reverse control signal for OPEN/CLOSE motor
3	OP/CL_FWD	O	Forward control signal for OPEN/CLOSE motor
4	OPEN_SW	I	Signal from tray OPEN Switch
5	POSITION	I	Signal from of Position Detection sensor
6	N.C.	-	No Connection
7	N.C.	-	No Connection
8	BYTE	I	VSS (GND)
9	CNVSS/EFP_CNVSS	-	FLASH MODE TERMINAL (Connected to Ground) via 10 kΩ
10	XCIN	-	SUB CLOCK INPUT (32.768 kHz)
11	XCOUT	-	SUB CLOCK OUTPUT (32.768 kHz)
12	RESET/ERP_RESET	I	SYSTEM RESET INPUT (ACTIVE L)
13	XOUT	-	MAIN CLOCK OUTPUT (10 MHz)
14	VSS	-	GND (0V)
15	XIN	-	MAIN CLOCK INPUT (10 MHz)
16	VCC	-	POWER SUPPLY (5V)
17	NMI	I	CONNECT TO VCC, EXTERNAL INTERRUPT I/P
18	RMT	I	REMOCON INPUT
19	SYNC	I	AC FAILURE DETECT INPUT
20	Up/Down R	O	Changer Motor 2 Reverse Control
21	Change SW	I	Changer Change Switch
22	BOTTOM SW	I	CHANGER BOTTOM SWITCH
23	UP/DOWN F	O	Changer Motor 2 Forward Control
24	S.Surr IC_CLK	O	Clock signal for super surround IC
25	S.Surr IC_DAT	O	Data signal for super surround IC
26	PLL_CE	O	PLL Chip Select
27	TU-SD	I	SIGNAL DET Input from Tuner
28	TU_ST/DO	I	Tuner IF Data/Stereo Input
29	PLL_DA	O	PLL DATA - DI INPUT of Tuner
30	PLL_CK	O	Clock Signal for the PLL Tuner
31	EFP_TxD1	O	Transmit signal for flash micro-p
32	EFP_RxD1	O	Receive signal for flash micro-p
33	EFP_SCLK	O	Clock signal for flash micro-p
34	EFP_BUSY	O	Busy signal for flash micro-p
35	DVD_CMD	O	CMD signal for the DVD Module
36	DVD_STA	I	STATUS signal from the DVD Module
37	DVD_CK	I	CLK signal for the DVD Module
38	EDA	O/I	DATA Signal for the EEPROM
39	ECLK	O	CLOCK Signal for the EEPROM
40	ECS	O	CHIP SELECT Signal for the EEPROM
41	EFP_EPM	O	For Flash
42	FLD_RST	O	Reset Signal for the FL DRIVER
43	FLD_CS	O	Latch Signal for the FL DRIVER
44	FLD_DA	O	Data input for the FL DRIVER
45	FLD_CK	O	Clock Signal for the FL DRIVER
46	EFP_CE	O	For Flash
47	Wide1	O	S-Video output control
48	ASP_DA	O	DATA signal for 6ch VOL ASP
49	ASP_CK	O	CLOCK signal for 6ch VOL ASP
50	DVD_MUTE	I	Signal from DVD module control mute circuit
51	DivX_EN	I	DivX_EN
52	KA_LAT	O	Karaoke Latch
53	KA_DAT	O	Karaoke Data
54	KA_CLK	O	Karaoke Clock
55	MUTE_L	O	Mute control of Line Out
56	MUTE_H	O	HIC MUTE
57	HP_MUTE	O	Head Phone Mute signal
58	MUTE_C	O	Port for Mute control of Center
59	MUTE_SR	O	Port for Mute Control of SL/SR
60	SUB_MUTE	O	Subwoofer Mute Signal
61	MUTE_A	O	Mute Control for FL/FR
62	VCC	-	Power Supply 5.0V
63	N.C.	-	No Connection
64	VSS	-	Ground (0V)
65	SP_A	O	Control Speana IC's port A
66	SP_B	O	Control Speana IC's port B
67	SP_C	O	Control Speana IC's port C
68	DVD_PCT	O	Control Signal for the Power for the DVD MODULE
69	DC_DET	I	Signal from the DC Detection circuit
70	PCONT	O	Control Signal for the Power Control Relay
71	REC	O	Deck Recording Control (Recording = L)
72	Half1	I	Half switch signal from DECK1
73	Mode1	I	Mode switch signal from DECK1 (L=OFF; H=ON)
74	MOTOR	O	Deck Motor Control (L=OFF; H=ON)
75	JOG_B	I	Signal B from Volume JOG
76	JOG_A	I	Signal A from Volume JOG
77	DMT	O	Deck Mute at mecha Transition (L=Mute Off; H=MUTE On)
78	DECK1_H	I	Stock Switch of Changer
79	PLUNGER 1	O	Deck 1 Plunger Control (L=OFF; H=ON)
80	PLUNGER 2	O	Deck 2 Plunger Control (L=OFF; H=ON)

Pin No.	Mark	I/O	Function
81	Model_CTL	I	To select Model when power on (VK72=L; VK82/92=H)
82	BASS	O	Port to control SSEQ-2
83	MIC_1L	I	Port to control Mic Level Up
84	MIC_2L	I	Port to control Mic Level Down
85	LED	O	Port to Control LED
86	REG1	I	Tuner Region Setting 1
87	REG2	I	Tuner Region Setting 2
88	REG3	I	Tuner Region Setting 3
89	PHOTO_1	A/D I	Rotating Detection Signal (Deck 1)
90	PHOTO_2	A/D I	Rotating Detection Signal (Deck 2)
91	DECK2_AD	A/D I	AD input from DECK2 (RINHF/MODE2/RINHR/HALF2
92-94	KEY1-KEY3	A/D I	Key 1 to Key 3 input
95	SPEANA_AD	A/D I	Signal from Speana IC's OUT port
96	AVSS	-	ANALOG POWER SUPPLY INPUT
97	DVD_RS	A/D I	DVD Region Setting
98	VREF	-	REFERENCE VOLTAGE INPUT
99	AVcc	-	ANALOG POWER SUPPLY INPUT
100	PLAY_SW	I	Play Switch

26 Parts Location and Replacement Parts List

Notes:

- Important safety notice:

  Components identified by ⚠ mark have special characteristics important for safety.

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

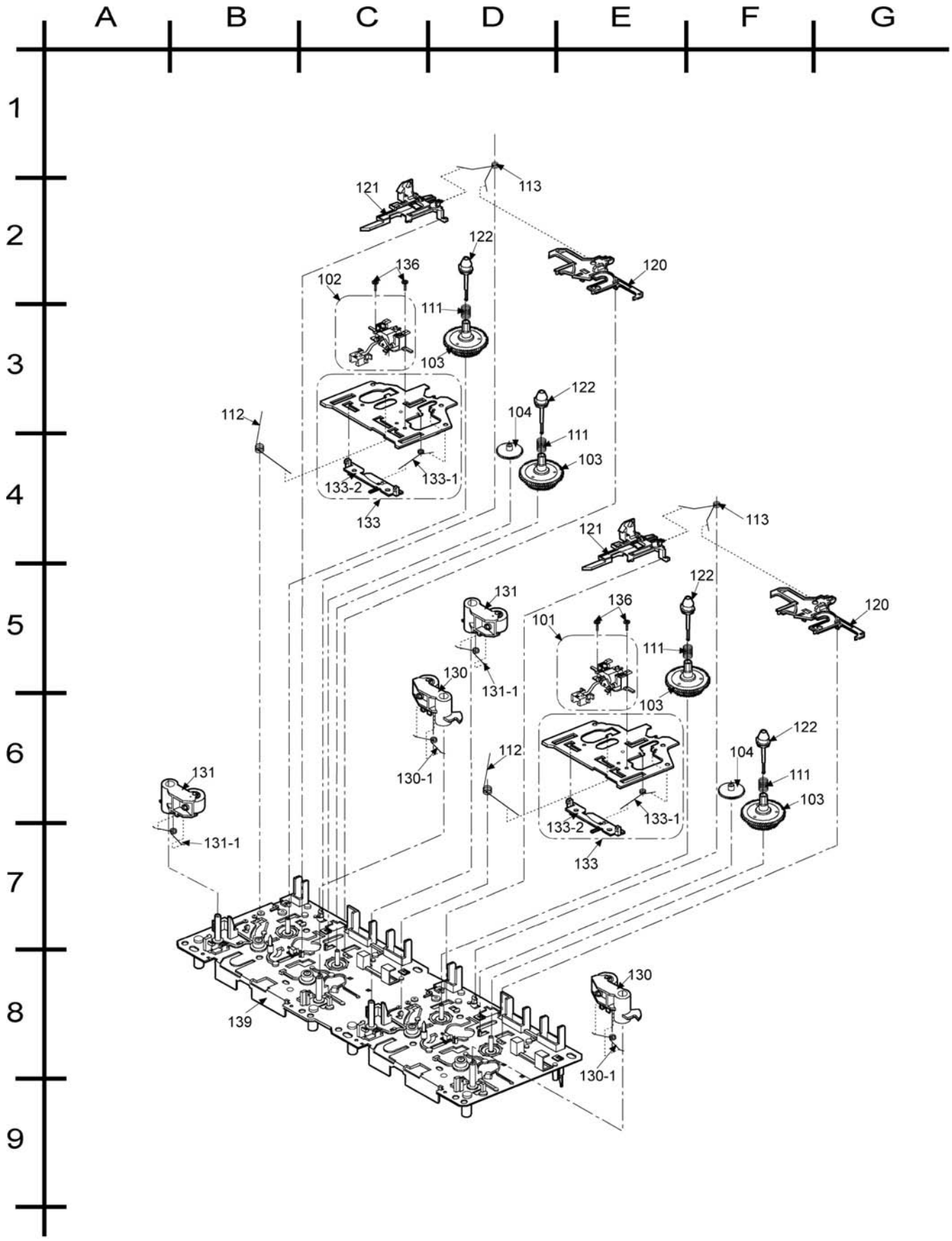
  When replacing any of these components, be sure to use only manufacturer's specified parts shown in the parts list.
- The parenthesized indications in the Remarks columns specify the areas or colour. (Refer to the cover page for area or colour)

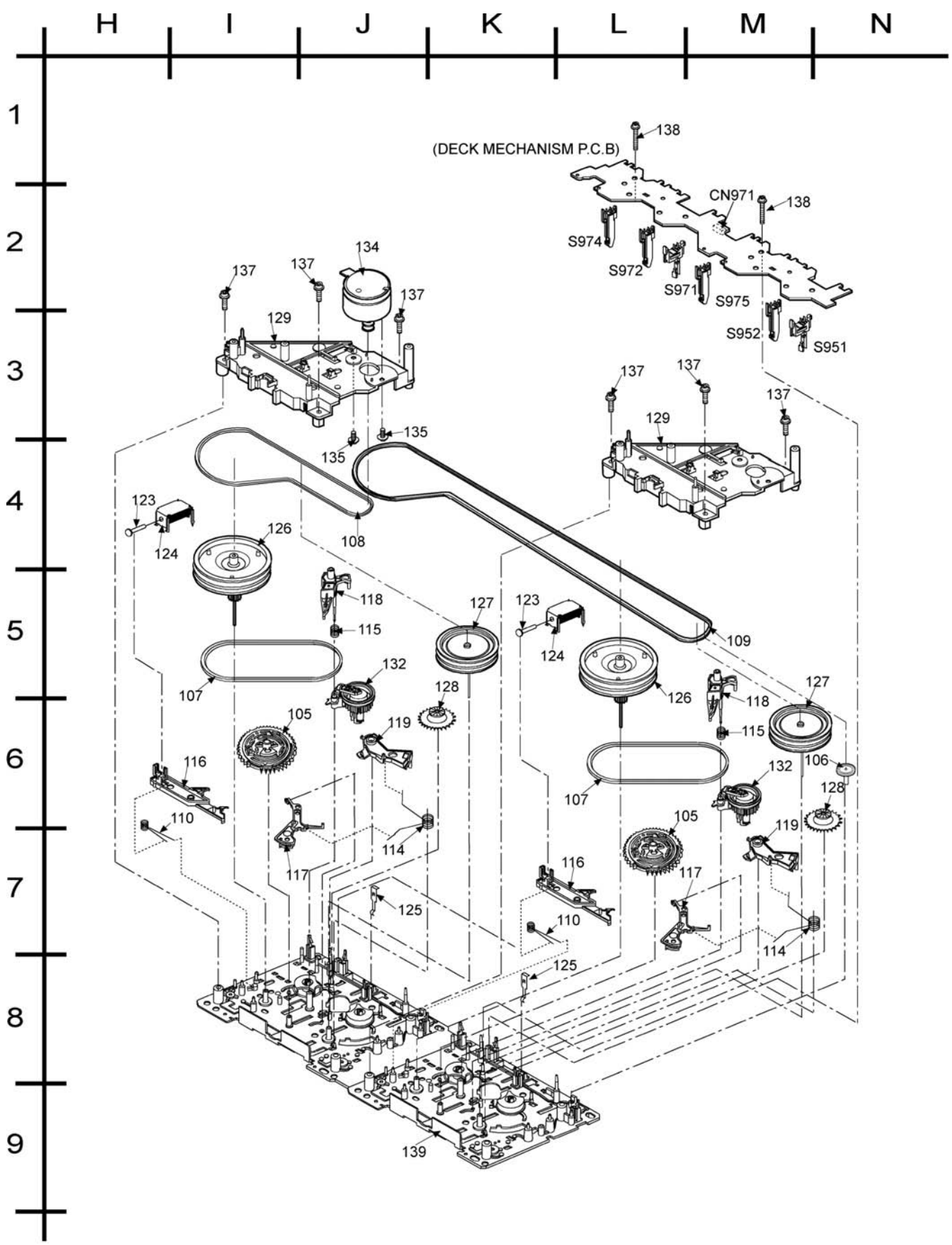
  Parts without these indications can be used for all areas.
- Warning: This product uses a laser diode. Refer to caution statements on "Precaution of Laser Diode".
- Capacitor values are in microfarads (µF) unless specified otherwise, P= Pico-farads (pF), F= Farads.
- Resistance values are in ohms, unless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

26.1. Deck Mechanism (RAA3413-S)

26.1.1. Deck Mechanism Parts Location

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(DECK MECHANISM P.C.B)
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S952
S951
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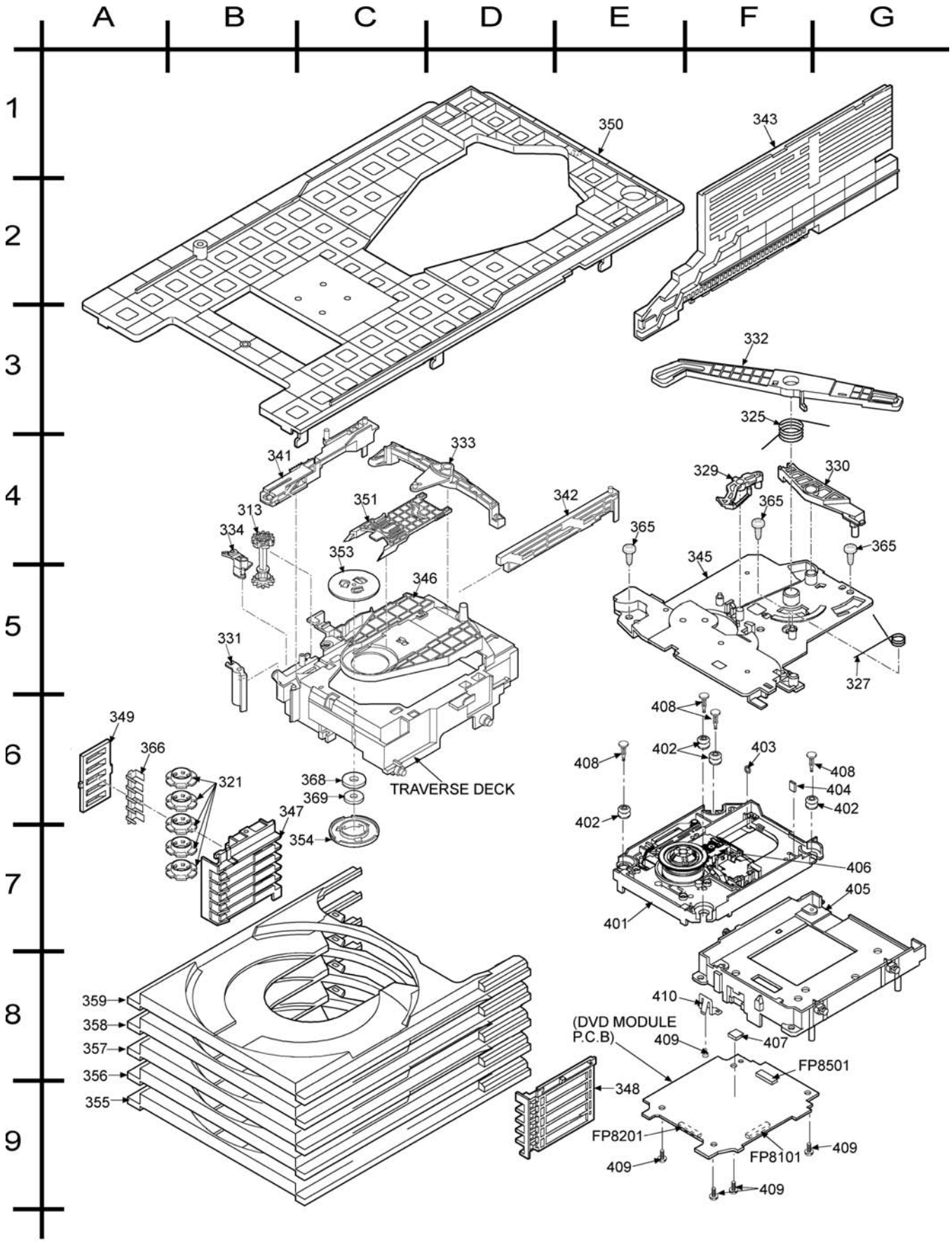
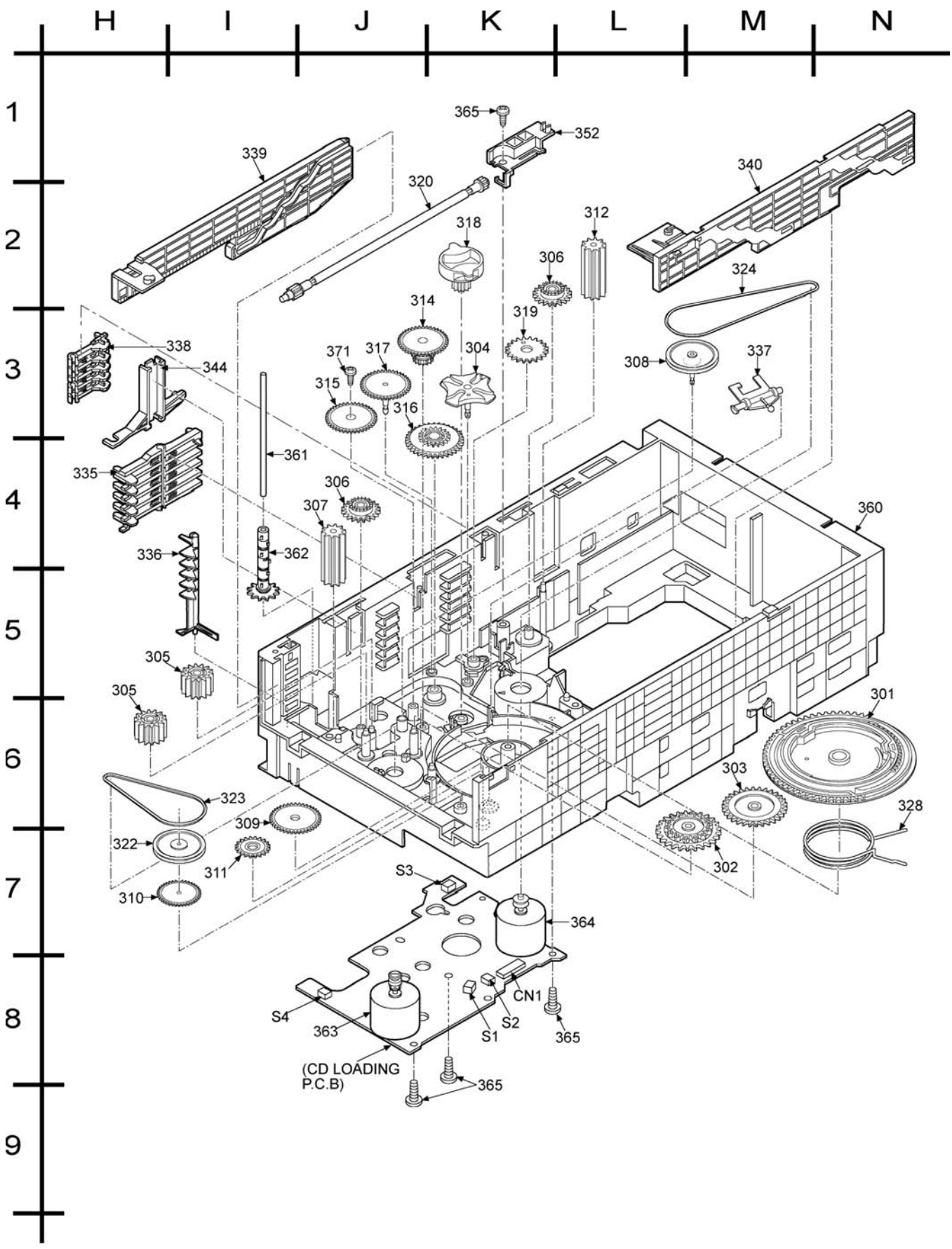
26.1.2. Deck Mechanism Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CASSETTE DECK	
101	RED0064	R/P HEAD BLOCK UNIT	[M]
102	RED0063	P/B HEAD BLOCK UNIT	[M]
103	RDG0300	REEL BASE GEAR	[M]
104	RDG0301	WINDING RELAY GEAR	[M]
105	RDK0026	MAIN GEAR	[M]
106	RDR0029-3	RELAY PULLEY	[M]
107	RDV0033-4	WINDING BELT	[M]
108	RDV0034-2	CAPSTAN BELT A	[M]
109	RDV0057	MAIN 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	RMM0133-1	EJECT ROD	[M]
122	RMQ0519	REEL HUB	[M]
123	RMS0398-1	MOVING CORE	[M]
124	RSJ0003	PLUNGER ASS'Y	[M]
125	RMC0061	PACK SPRING	[M]
126	RXF0049	FLYWHEEL F ASS'Y	[M]
127	RXF0050	FLYWHEEL R ASS'Y	[M]
128	RXG0040	FF RELAY GEAR ASS'Y	[M]
129	RMK0283A-J	SUB-CHASSIS	[M]
130	RXL0124	PINCH ROLLER F ASS'Y	[M]
130-1	RMB0401	PINCH ARM SPRING F	[M]
131	RXL0125	PINCH ROLLER R ASS'Y	[M]
131-1	RMB0402	PINCH ARM SPRING R	[M]
132	RXL0126	WINDING ARM ASS'Y	[M]
133	RXQ0412	HEAD PANEL ASS'Y	[M]
133-1	RMB0405	FR ROD SPRING	[M]
133-2	RMM0132	FR ROD	[M]
134	REM0121	CAP MOTOR ASS'Y	[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	RFKJXED70-K	MAIN CHASSIS	[M]

26.2. DVD Loading Mechanism

26.2.1. DVD Loading Mechanism Parts Location

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(CD LOADING P.C.B)
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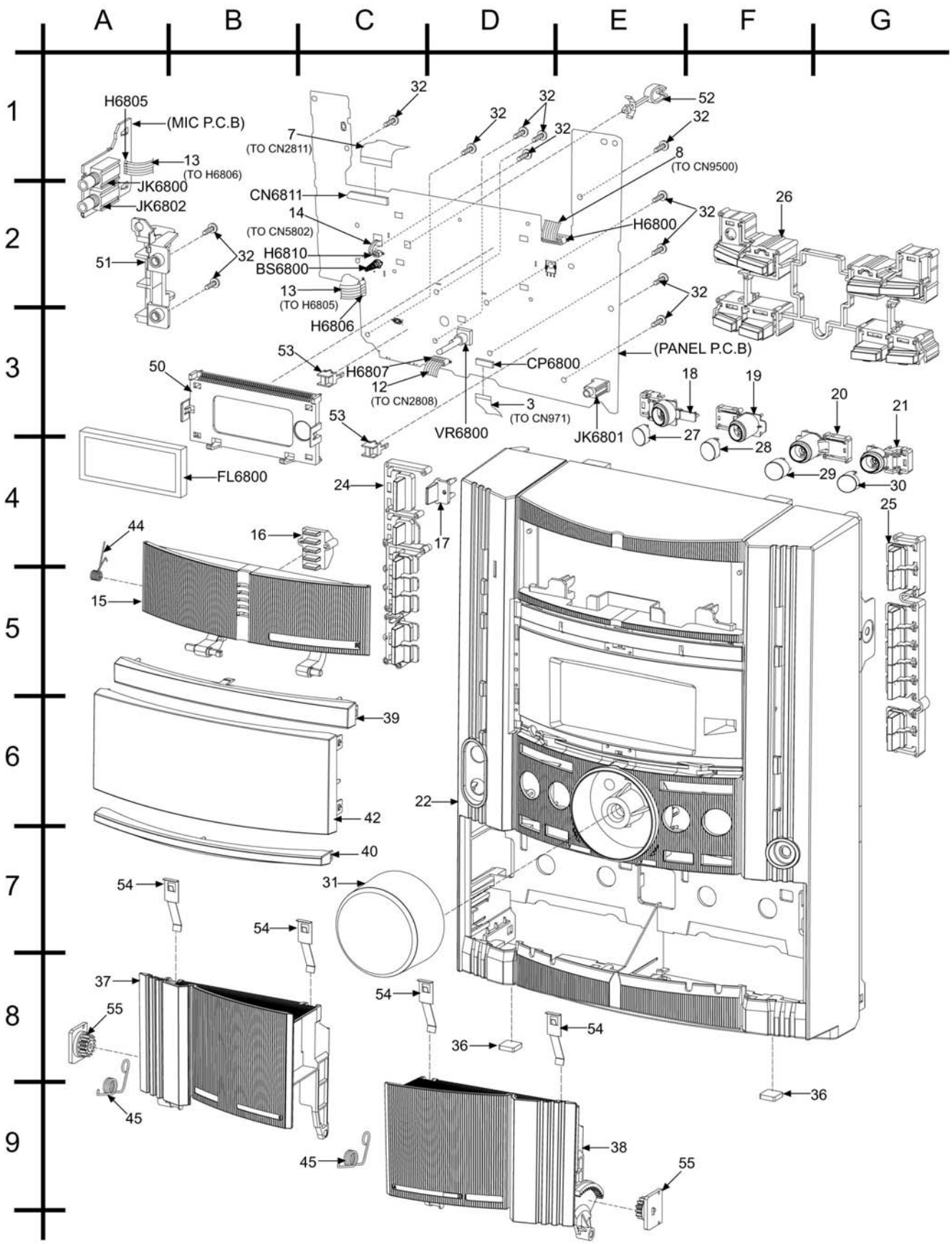
26.2.2. DVD Loading Mechanism Parts List

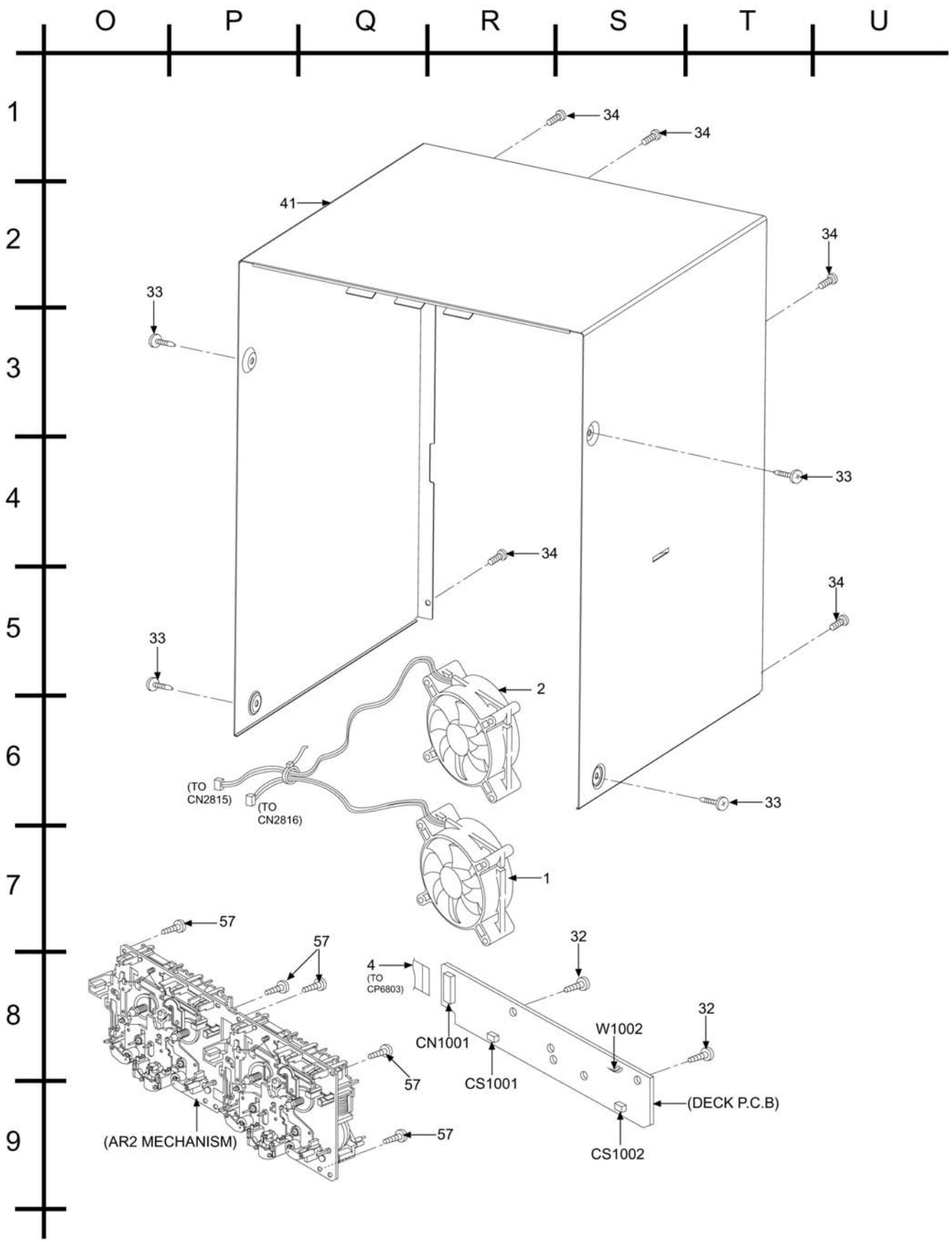
Ref. No.	Part No.	Part Name & Description	Remarks
		TRAVERSE DECK	
301	RDG0519	MAIN GEAR	[M]
302	RDG0520	SPEED UP GEAR	[M]
303	RDG0521	REVERSE GEAR	[M]
304	RDG0522	GENEVA GEAR	[M]
305	RDG0523	HOR RELAY GEAR	[M]
306	RDG0525	CROWN GEAR	[M]
307	RDG0526	TRAY RELAY GEAR	[M]
308	RDG0527	UD PULLEY GEAR	[M]
309	RDG0528	HOR SPEED DOWN GEAR	[M]
310	RDG0529	HOR SPEED DOWN GEAR	[M]
311	RDG0530	HOR DRIVE GEAR	[M]
312	RDG0531	LOAD RELAY GEAR	[M]
313	RDG0532	LOAD GEAR	[M]
314	RDG0535	UD SPEED DOWN GEAR	[M]
315	RDG0534	UD SPEED DOWN GEAR	[M]
316	RDG0536	SELECT SPEED DOWN GEAR	[M]
317	RDG0537-1	SELECT DRIVE GEAR	[M]
318	RDG0538-1	CHANGE GEAR	[M]
319	RDG0539	UD DRIVE GEAR	[M]
320	RDG0540	TIMING GEAR	[M]
321	RDG0542	TRAY GEAR	[M]
322	RDG0543	HOR PULLEY GEAR	[M]
323	RDV0068	HOR BELT	[M]
324	RDV0069	UD BELT	[M]
325	RME0344-1	UD ASSIST SPRING	[M]
327	RME0363-1	LIMIT SPRING	[M]
328	RME0368-1	MAIN GEAR SPRING	[M]
329	RML0616	SPEED UP LOCK	[M]
330	RML0617-2	SEPARATE LEVER 1	[M]
331	RML0618-1	SEPARATE LEVER 2	[M]
332	RML0619-1	UD. CONNECTION LEVER	[M]
333	RML0620	TRV.CONNECT LEVER	[M]
334	RML0621-2	TRAY CHG. LEVER	[M]
335	RML0702	TRAY LOCK LEVER	[M]
336	RML0623	OPEN SW. LEVER	[M]
337	RML0624	CHG. LEVER	[M]
338	RML0701	TRAY STOPPER	[M]
339	RMM0239-1	UD.RACK (L)	[M]
340	RMM0240	UD.RACK (R)	[M]
341	RMM0290	TRV.SLIDE PLATE (L)	[M]
342	RMM0242-1	TRV.SLIDE PLATE (R)	[M]
343	RMM0243	SELECT RACK	[M]
344	RMM0244	SELECT GUIDE	[M]
345	RMQ1051-2	PITCH PLATE	[M]
346	RMQ1461	UD BASE	[M]
347	RMQ1056	TRAY GUIDE (L)	[M]
348	RMQ1057	TRAY GUIDE (R)	[M]
349	RMQ1058	GEAR HOLDER	[M]
350	RMQ1059-2	TOP COVER	[M]
351	RMQ1060	CLAMP GUIDE	[M]
352	RMQ1061	TG.PLATE	[M]
353	RMR1531-X	FIXTURE	[M]
354	RMR1446-X	CLAMPER	[M]
355	RMR1714A-H	TRAY NO. 1	[M]
356	RMR1714B-H	TRAY NO. 2	[M]
357	RMR1714C-H	TRAY NO. 3	[M]
358	RMR1714D-H	TRAY NO. 4	[M]
359	RMR1714E-H	TRAY NO. 5	[M]
360	RFKNAPM77MDS	MECHA BASE ASS'Y	[M]
361	RMS0762	TRAY GEAR SHAFT	[M]
362	RXG0053	TRAY DRIVE GEAR ASSY	[M]
363	RXQ0803	LOADING MOTOR ASSY	[M]
364	RXQ0804	UD MOTOR ASSY	[M]
365	XTB3+10JFJ	SCREW	[M]
366	RMC0472	TRAY SPRING	[M]
368	XWG6FFY	BACK YOKE	[M]
369	JSM0048	MAGNET	[M]
371	RHD26045-L	SCREW	[M]
401	RAE2012Z-S	DU69U BLK	[M]
402	RMG0598-A	FLOATING RUBBER	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
403	RMG0617-H	CUSHION RUBBER A	[M]
404	RMG0618-H	CUSHION RUBBER B	[M]
405	RMR1596-X2	MIDDLE CHASSIS	[M]
406	RXQ1252	DVD OPU SUB ASS'Y	[M]
407	RMX0290	PLASTIC SHEET	[M]
408	RMS0789	FIXED PIN	[M]
409	XTV2+6GFJ	SCREW	[M]
410	RMC0387	SUPPORT SPRING	[M]

26.3. Cabinet

26.3.1. Cabinet Parts Location

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(TO CN2815)
(TO CN2816)
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4 (TO CP6803)
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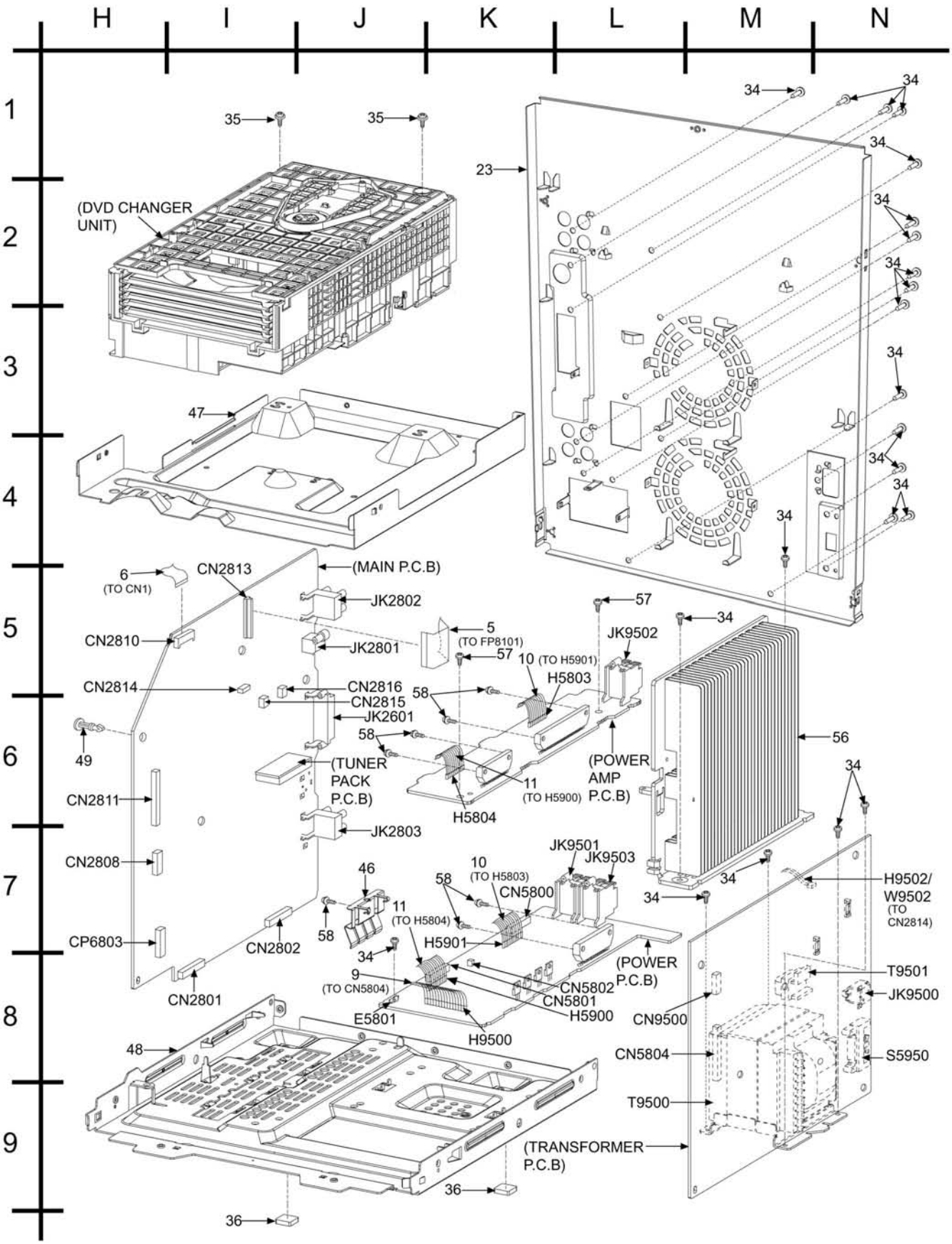
W1002
CN1001
CS1001
(DECK P.C.B)
CS1002
(AR2 MECHANISM)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(DVD CHANGER UNIT)
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(MAIN P.C.B)
6
(TO CN1)
CN2813
JK2802
JK2801
CN2810
5
(TO FP8101)
57
JK9502
10 (TO H5901)
H5803
CN2814
CN2816
CN2815
JK2601
58
49
(TUNER PACK P.C.B)
11
(TO H5900)
H5804
(POWER AMP P.C.B)
56
CN2811
JK2803
JK9501
JK9503
CN2808
46
10
(TO H5803)
CN5800
H9502/
W9502
(TO CN2814)
CP6803
CN2802
11
(TO H5804)
H5901
(POWER P.C.B)
T9501
JK9500
9
(TO CN5804)
CN5802
CN5801
H5900
CN2801
E5801
H9500
CN9500
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CN5804
S5950
T9500
(TRANSFORMER P.C.B)
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26.3.2. Cabinet Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	L6FALEFH0023	FAN	[M]
2	L6FALEFH0030	FAN	[M]
3	REEX0202	10P FFC (PANEL)	[M]
4	REEX0211	14P FFC WIRE (DECK)	[M]
5	REEX0454	50P FCC WIRE (DVD)	[M]
6	REEX0455	14P FFC WIRE (DVD)	[M]
7	REEX0470	30P FFC WIRE (PANEL)	[M]
8	REXX0476	7P FLAT WIRE	[M]
9	REXX0477	15P FLAT WIRE	[M]
10	REXX0478	10P FLAT WIRE	[M]
11	REXX0493	11P FLAT WIRE	[M]
12	REXX0483	6P FLAT WIRE	[M]
13	REXX0486	5P FLAT WIRE	[M]
14	REXX0491	2P WIRE (PANEL)	[M]
15	RGKX0315-K	CD LID	[M]
16	RGLX0112-D	CD LID ORNAMENT	[M]
17	RGLX0113-Q	POWER LIGHT CHIP	[M]
18	RGLX0116-Q	F/BTN A (AUX)	[M]
19	RGLX0117-Q	F/BTN B (FM)	[M]
20	RGLX0118-Q	F/BTN C (TAPE)	[M]
21	RGLX0119-Q	F/BTN D (CD/DVD)	[M]
22	RGPX0198F-S	FRONT PANEL	[M]
23	RGRX0052A-C	REAR PANEL	[M]
24	RGUX0630-S	POWER BUTTON	[M]
25	RGUX0631-S	CD CONTROL BUTTON	[M]
26	RGUX0632-K	CONTROL BUTTON	[M]
27	RGUX0633-K	F/BTN CAP A (AUX)	[M]
28	RGUX0634-K	F/BTN CAP B (FM)	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
29	RGUX0635-K	F/BTN CAP C (TAPE)	[M]
30	RGUX0636-K	F/BTN CAP D (CD/DVD)	[M]
31	RGWX0072-S	VOLUME KNOB	[M]
32	RHD26046	SCREW	[M]
33	RHD30004-2S	SCREW	[M]
34	RHD30119-S	SCREW	[M]
35	RHDX30006	STEP SCREW	[M]
36	RKA0072-KJ	LEG CUSHION	[M]
37	RKFX0129-S	CASSETTE LID L	[M]
38	RKFX0130-S	CASSETTE LID R	[M]
39	RGKX0316-S	FL ORNAMENT UPPER	[M]
40	RGKX0317-S	FL ORNAMENT LOWER	[M]
41	RKMX0105C-S	TOP CABINET (BENT)	[M]
42	RKWX0252E-V	FL WINDOW	[M]
44	RMBX0033	CD LID OPEN SPRING	[M]
45	RMBX0036	CASS OPEN SPRING	[M]
46	RMCX0021-J	TRANSISTOR CLIP	[M]
47	RMKX0109A-1	DVD CHASSIS	[M]
48	RMKX0111	BOTTOM CHASSIS	[M]
49	RMNX0019	PCB SPACER	[M]
50	RMNX0110	FL HOLDER	[M]
51	RMNX0133-1	MIC JACK HOLDER	[M]
52	RMNX0159	WIRE CLAMPER	[M]
53	RMNX0160	LED HOLDER	[M]
54	RUS757ZAA	CASS HALF SPRING	[M]
55	RXGX0002	DAMPER GEAR	[M]
56	RXXX0065	HEATSINK UNIT	[M]
57	XTB3+10JFJ	SCREW	[M]
58	XTW3+15TFJ	SCREW	[M]

MECHANICAL PART LIST

CONJUNTO ACCESORIOS		
PART No	**DESCRIPTION**	**REMARKS**
N2QAJB000143	CONTROL REMOTO	(M)
RPFM0009-A	BOLSA	(M)
RSA0006-J	FM ANT	(M)
SJA168-1A	AC CORD	(M)
UM-3PA/T	PILA CARBON TAMAÑO AA GRANEL	(M)
N1DAAAA00001	AM LOOP ANTENA	(M)
RQTM0138	AVISO IMPORTANTE	(M)
RQTM0136	INSTRUCTIVO MOD. 900/1000 DVD	(M)
K2KA2BA00001	CABLE DE AC	(M)

CONJUNTO CD		
PART No	**DESCRIPTION**	**REMARKS**
REEX0454	50 PIN FCC WIRE	(M)
RHDX30006	TORNILLO	(M)
TP-C10WA	FILAMENT TAPE	(M)
RD-DDM046-PX	CR 16D CHANGER	(M)
REEX0455-1	14 PIN FCC WIRE	(M)
RD-DDC015-PX	DU69U W/PCB L	(M)
RMKX0109A-1	DVD CHASSIS	(M)
RZGGG6AG	GRASA	(M)

CONJUNTO CHASSIS		
PART No	**DESCRIPTION**	**REMARKS**
L6FALEFH0023	FAN	(M)
REEX0202-2	MULTICABLE	(M)
REEX0211	14P FFC WIRE (CHANGER TO MAIN)	(M)
REEX0470	30 PIN FFC (PANEL TO MAIN)	(M)
RHD26046	SCREW	(M)
RHD30004-2S	SIDE SCREW	(M)
RHD30119-S	SCREW	(M)
RKA0072-KJ	LEG	(M)
RMCX0021-J	TRANSISTOR CLIP	(M)
RMNX0133-1	MIC JACK HOLDER	(M)
RXXX0065	HEATSINK UNIT	(M)
RYKM0041	TOP CABINET (BENT)	(M)
SHR301-J	LEAD CLAMPER	(M)
T2KA02916	SOLDADURA ROLLO PB FREE 1.6	(M)
XTB3+10JFJ	TORNILLO	(M)
XTW3+15TFJ	TORNILLO	(M)
L6FALEFH0030	VENTILADOR	(M)
RMNX0019	PCB SPACER	(M)
RTPM1P3M045-V	Transformador	(M)
RZGGHG308	GRASA DISIPADORA	(M)
RGRX0052R-AL	REAR PANEL	(M)
K5D402BLA013	FUSE 250V T4AL	(M)
RMKX0111-2	BOTTOM CHASSIS (DIN & DVD)	(M)
RMNX0159-1	WIRE CLAMPER	(M)

CONJUNTO VISTAS		
PART No	**DESCRIPTION**	**REMARKS**
RGQM0177	ETIQUETA P. O. P. (L) TM900DVD	(M)
RGWX0072-S	VOLUME KNOB	(M)
RKWX0252B-VL	FL WINDOW	(M)
TP-C10WA	FILAMENT TAPE	(M)
RGKX0316-S	FL ORNAMENT UPPER	(M)
RGKX0317-S	FL ORNAMENT LOWER	(M)
RGQM0180	ETIQUETA POP (R)	(M)
RYPX0096D-SL3	FRONT PANEL ASSY	(M)
SB-PT92GC-M	**CONJUNTO SURROUND**	(M)

CONJUNTO EMPAQUE SA-TM900		
PART No	**DESCRIPTION**	**REMARKS**
MPH001-A	HOJA DE POLIETILENO	(M)
RPGM0199	CAJA SA-TM900DVD (10371)	(M)
RPNM0155 T	UNICEL SA-TM850/900/950/1000	(M)
RQAM0119	POLIZA DE GARANTIA	(M)
RQZM0195	ETIQUETA NUMERO DE SERIE SA-TM900	(M)
RQLM0285	ETII. # SERIE BLANCA TM22	(M)
TPS1-1A	CINTA DIUREX	(M)
RZTM0005-B	CINTA P/CAJA	(M)
SW743734	GRAPA	(M)
RPNM0155 B-1	UNICEL SA-TM850/900/950/1000	(M)

ELECTRICAL PART LIST

CAPACITORS

REF No	PART NUMBER	DESCRIPTION	REMARKS
C1	F1D1H5R6A017	CAPACITOR	(M)
C10	F1D1H180A015	CAPACITOR	(M)
C1001	F1B2H103A060	CAPACITOR CERAMICO	(M)
C1002	F1B2H103A060	CAPACITOR CERAMICO	(M)
C11	F1D1H102A029	CAPACITOR	(M)
C2	F1D1H102A029	CAPACITOR	(M)
C2039	ECJ1VB1H103K	CHIP CAPACITOR	(M)
C2046	F2A0J102A130	CAPACITOR ELECTRONICO	(M)
C2047	F2A0J102A130	CAPACITOR ELECTRONICO	(M)
C2048	ECEA1HKA100B	CAPACITOR	(M)
C2049	ECA0JM221B	CONDENSADOR ELECTROLITICO	(M)
C2050	ECEA1HKA220B	CAPACITOR	(M)
C2100	ECEA1HKA010B	CAPACITOR	(M)
C2101	F1H1H2210001	CHIP RESISTOR	(M)
C2102	ECEA1CKA100B	CAPACITOR	(M)
C2103	ECEA1CKA100B	CAPACITOR	(M)
C2104	ECEA1CKA100B	CAPACITOR	(M)
C2105	ECEA1HKA330B	CAPACITOR	(M)
C2106	ECJ1VC1H100D	CAPACITOR	(M)
C2107	ECJ1VB1C103K	CAPACITOR	(M)
C2108	ECEA1HKA470B	CAPACITOR	(M)
C2110	ECEA1HKA470B	CAPACITOR	(M)
C2111	ECJ1VC1H102J	CHIP CAPACITOR	(M)
C2112	ECEA1HKA010B	CAPACITOR	(M)
C2113	ECJ1VB1A154K	CAPACITOR CHIP	(M)
C2114	ECJ1VB1A105K	CHIP CAPACITOR	(M)
C2115	ECJ1VF1C474Z	CAPACITOR	(M)
C2116	ECJ1VF1C224Z	CAPACITOR	(M)
C2117	ECJ1VF1C224Z	CAPACITOR	(M)
C2118	F1H1H222A013	CHIP RESISTOR	(M)
C2119	ECEA1HKA4R7B	CAPACITOR	(M)
C2120	ECEA1HKA4R7B	CAPACITOR	(M)
C2121	ECJ1VC1H101K	CHIP RESISTOR	(M)
C2122	ECJ1VC1H470K	CHIP RESISTOR	(M)
C2123	ECJ1VB1H103K	CHIP CAPACITOR	(M)
C2124	F1H1C223A001	CHIP RESISTOR	(M)
C2128	ECEA1HKA010B	CAPACITOR	(M)
C2129	ECJ1VB1H102K	CHIP CAPACITOR	(M)
C2130	ECJ1VC1H101K	CHIP RESISTOR	(M)
C2131	ECEA1HKA010B	CAPACITOR	(M)
C2134	ECJ1VB1H102K	CHIP CAPACITOR	(M)
C2136	ECJ1VC1H102J	CHIP CAPACITOR	(M)
C2137	ECJ1VB1H223K	CAPACITOR CHIP	(M)
C2138	ECEA1CKA100B	CAPACITOR	(M)
C2139	F1H1H332A013	CHIP RESISTOR	(M)
C2140	ECJ1VB1C823K	CHIP CAPACITOR	(M)
C2141	ECEA1HKA100B	CAPACITOR	(M)
C2200	ECEA1HKA010B	CAPACITOR	(M)
C2201	F1H1H2210001	CHIP RESISTOR	(M)
C2202	ECEA1CKA100B	CAPACITOR	(M)
C2203	ECEA1CKA100B	CAPACITOR	(M)
C2204	ECEA1CKA100B	CAPACITOR	(M)
C2205	ECEA1HKA330B	CAPACITOR	(M)
C2206	ECJ1VC1H100D	CAPACITOR	(M)
C2207	ECJ1VB1C103K	CAPACITOR	(M)
C2208	ECEA1HKA470B	CAPACITOR	(M)
C2210	ECEA1HKA470B	CAPACITOR	(M)
C2211	ECJ1VC1H102J	CHIP CAPACITOR	(M)
C2212	ECEA1HKA010B	CAPACITOR	(M)
C2213	ECJ1VB1A154K	CAPACITOR CHIP	(M)
C2214	ECJ1VB1A105K	CHIP CAPACITOR	(M)
C2215	ECJ1VF1C474Z	CAPACITOR	(M)
C2216	ECJ1VF1C224Z	CAPACITOR	(M)
C2217	ECJ1VF1C224Z	CAPACITOR	(M)
C2218	F1H1H222A013	CHIP RESISTOR	(M)
C2219	ECEA1HKA4R7B	CAPACITOR	(M)
C2220	ECEA1HKA4R7B	CAPACITOR	(M)
C2221	ECJ1VC1H101K	CHIP RESISTOR	(M)
C2222	ECJ1VC1H470K	CHIP RESISTOR	(M)
C2223	ECJ1VB1H103K	CHIP CAPACITOR	(M)
C2225	ECJ1VB1C223K	CAPACITOR	(M)

C2228	ECEA1HKA010B	CAPACITOR	(M)
C2229	ECJ1VB1H102K	CHIP CAPACITOR	(M)
C2230	ECJ1VC1H101K	CHIP RESISTOR	(M)
C2231	ECEA1HKA010B	CAPACITOR	(M)
C2234	ECJ1VB1H102K	CHIP CAPACITOR	(M)
C2236	ECJ1VC1H102J	CHIP CAPACITOR	(M)
C2237	ECJ1VB1H223K	CAPACITOR CHIP	(M)
C2238	ECEA1CKA100B	CAPACITOR	(M)
C2239	F1H1H332A013	CHIP RESISTOR	(M)
C2240	ECEA1HKA100B	CAPACITOR	(M)
C2304	ECJ1VC1H100D	CAPACITOR	(M)
C2306	ECEA1HKA2R2B	CAPACITOR	(M)
C2310	ECEA1HKA010B	CAPACITOR	(M)
C2311	ECEA1HKAR47B	CAPACITOR	(M)
C2312	ECEA1CKA100B	CAPACITOR	(M)
C2320	ECJ1VB1C104K	CAPACITOR	(M)
C2332	ECJ1VB1A105K	CHIP CAPACITOR	(M)
C2335	ECJ1VB1A105K	CHIP CAPACITOR	(M)
C2400	ECEA1CKA100B	CAPACITOR	(M)
C2404	ECJ1VC1H100D	CAPACITOR	(M)
C2406	ECEA1HKA2R2B	CAPACITOR	(M)
C2410	ECEA1HKA010B	CAPACITOR	(M)
C2411	ECEA1HKAR47B	CAPACITOR	(M)
C2434	ECA0JM102B	CAPACITOR ELECTRONICO	(M)
C2436	ECJ1VB1A105K	CHIP CAPACITOR	(M)
C2437	ECJ1VB1A105K	CHIP CAPACITOR	(M)
C2440	ECJ1VB1C104K	CAPACITOR	(M)
C2441	ECJ1VB1H103K	CHIP CAPACITOR	(M)
C2442	ECA1HM220B	C.ELECTROLITICO	(M)
C2443	ECJ1VB1H103K	CHIP CAPACITOR	(M)
C2444	ECA1AM221B	CAPACITOR	(M)
C2500	ECEA1CKA100B	CAPACITOR	(M)
C2502	ECEA1CKA100B	CAPACITOR	(M)
C2509	ECEA1HKAR47B	CAPACITOR	(M)
C2515	ECEA1HKAR22B	CAPACITOR	(M)
C2516	ECJ1VC1H100D	CAPACITOR	(M)
C2517	ECEA1HKAR47B	CAPACITOR	(M)
C2522	ECJ1VB1C104K	CAPACITOR	(M)
C2600	ECEA1HKA100B	CAPACITOR	(M)
C2601	ECJ1VB1H103K	CHIP CAPACITOR	(M)
C2602	ECEA1HKA010B	CAPACITOR	(M)
C2603	ECEA1HKA3R3B	CAPACITOR	(M)
C2604	ECJ1VB1H102K	CHIP CAPACITOR	(M)
C2605	ECJ1VC1H101K	CHIP RESISTOR	(M)
C2606	ECEA1HKA100B	CAPACITOR	(M)
C2607	ECJ1VB1C104K	CAPACITOR	(M)
C2608	ECEA1HKAR47B	CAPACITOR	(M)
C2609	ECEA1HKA100B	CAPACITOR	(M)
C2610	ECJ1VC1H102J	CHIP CAPACITOR	(M)
C2611	ECJ1VC1H101J	CAPACITOR	(M)
C2612	ECJ1VB1H103K	CHIP CAPACITOR	(M)
C2613	ECJ1VB1H102K	CHIP CAPACITOR	(M)
C2614	ECEA1HKA3R3B	CAPACITOR	(M)
C2615	ECEA1HKA4R7B	CAPACITOR	(M)
C2616	ECJ1VB1C333K	CAPACITOR CHIP	(M)
C2617	ECJ1VB1H103K	CHIP CAPACITOR	(M)
C2618	ECJ1VB1H103K	CHIP CAPACITOR	(M)
C2619	F0A2A681A010	POLYPROPLYENE CAPACITOR	(M)
C2620	ECEA1CKA100B	CAPACITOR	(M)
C2621	ECEA1HKAR47B	CAPACITOR	(M)
C2622	ECEA1HKA010B	CAPACITOR	(M)
C2623	ECEA1HKA010B	CAPACITOR	(M)
C2624	ECJ1VC1H101K	CHIP RESISTOR	(M)
C2625	ECEA1CKA220B	CAPACITOR	(M)
C2626	ECJ2VF1C105Z	CONDENSADOR	(M)
C2627	ECEA1CKA220B	CAPACITOR	(M)
C2629	ECA0JM101B	CAPACITOR	(M)
C2630	ECA0JM101B	CAPACITOR	(M)
C2631	ECJ1VC1H151J	CHIP CAPACITOR	(M)
C2632	ECJ1VB1H102K	CHIP CAPACITOR	(M)
C2633	ECJ1VC1H270J	CHIP CAPACITOR	(M)
C2634	ECJ1VC1H270J	CHIP CAPACITOR	(M)
C2636	ECJ1VB1H102K	CHIP CAPACITOR	(M)
C2637	F1H1H332A013	CHIP RESISTOR	(M)
C2638	ECJ1VB1H103K	CHIP CAPACITOR	(M)
C2639	ECEA1HKA4R7B	CAPACITOR	(M)

C2641	ECEA1HKA010B	CAPACITOR	(M)
C2642	ECEA1HKA010B	CAPACITOR	(M)
C2643	ECJ1VB1H682K	CHIP RESISTOR	(M)
C2644	ECJ1VB1H682K	CHIP RESISTOR	(M)
C2647	ECJ1VB1H102K	CHIP CAPACITOR	(M)
C2648	ECJ1VB1H103K	CHIP CAPACITOR	(M)
C2649	ECJ1VB1C104K	CAPACITOR	(M)
C2650	ECJ1VB1A474K	CAPACITOR CHIP	(M)
C2704	ECJ1VC1H101K	CHIP RESISTOR	(M)
C2705	ECJ1VC1H101K	CHIP RESISTOR	(M)
C2706	ECJ1VC1H101K	CHIP RESISTOR	(M)
C2707	ECJ1VC1H101K	CHIP RESISTOR	(M)
C2708	ECJ1VC1H101K	CHIP RESISTOR	(M)
C2709	ECJ1VC1H101K	CHIP RESISTOR	(M)
C2710	ECJ1VC1H101K	CHIP RESISTOR	(M)
C2711	ECJ1VC1H101K	CHIP RESISTOR	(M)
C2712	ECJ1VB1H102K	CHIP CAPACITOR	(M)
C2713	ECJ1VB1H102K	CHIP CAPACITOR	(M)
C2714	ECJ1VC1H101K	CHIP RESISTOR	(M)
C2716	ECJ1VC1H101K	CHIP RESISTOR	(M)
C2717	ECJ1VC1H101K	CHIP RESISTOR	(M)
C2718	ECJ1VB1H471K	CHIP CAPACITOR	(M)
C2719	ECJ1VB1H103K	CHIP CAPACITOR	(M)
C2720	ECJ1VB1H471K	CHIP CAPACITOR	(M)
C2721	ECJ1VB1H103K	CHIP CAPACITOR	(M)
C2722	ECEA1AKA220B	CAPACITOR	(M)
C2723	ECJ1VC1H101K	CHIP RESISTOR	(M)
C2724	ECJ1VC1H101K	CHIP RESISTOR	(M)
C2725	ECJ1VC1H101K	CHIP RESISTOR	(M)
C2726	ECJ1VC1H101K	CHIP RESISTOR	(M)
C2727	ECJ1VC1H101K	CHIP RESISTOR	(M)
C2728	ECJ1VC1H101K	CHIP RESISTOR	(M)
C2729	ECEA0JKA101B	CAPACITOR	(M)
C2730	ECJ1VB1H104K	CAPACITOR CHIP	(M)
C2731	ECEA1HKA0R1B	CAPACITOR	(M)
C2732	ECJ1VB1H103K	CHIP CAPACITOR	(M)
C2733	ECEA1HKA2R2B	CAPACITOR	(M)
C2734	ECJ1VC1H390J	CHIP CAPACITOR	(M)
C2735	ECJ1VC1H390J	CHIP CAPACITOR	(M)
C2736	ECJ1VC1H180J	CHIP CAPACITOR	(M)
C2737	ECJ1VC1H180J	CHIP CAPACITOR	(M)
C2738	ECJ1VB1C223K	CAPACITOR	(M)
C2739	ECJ1VC1H331J	CHIP CAPACITOR	(M)
C2740	ECJ1VC1H331J	CHIP CAPACITOR	(M)
C2741	ECEA1VKA4R7B	CAPACITOR ELECTROLITICO	(M)
C2742	ECJ1VB1H103K	CHIP CAPACITOR	(M)
C2743	ECJ1VB1H102K	CHIP CAPACITOR	(M)
C2744	ECJ1VB1H103K	CHIP CAPACITOR	(M)
C2745	ECJ1VB1H103K	CHIP CAPACITOR	(M)
C2746	ECJ1VB1H103K	CHIP CAPACITOR	(M)
C2747	ECEA1HKA0R1B	CAPACITOR	(M)
C2748	ECEA1HKA0R1B	CAPACITOR	(M)
C2749	ECEA1HKA0R1B	CAPACITOR	(M)
C2750	ECJ1VC1H101K	CHIP RESISTOR	(M)
C2751	ECJ1VB1H471K	CHIP CAPACITOR	(M)
C2752	ECJ1VB1H102K	CHIP CAPACITOR	(M)
C2754	ECJ1VB1H103K	CHIP CAPACITOR	(M)
C2758	ECJ1VB1C104K	CAPACITOR	(M)
C2759	ECJ1VB1H103K	CHIP CAPACITOR	(M)
C2825	ECJ1VB1A105K	CHIP CAPACITOR	(M)
C2826	ECJ1VB1A105K	CHIP CAPACITOR	(M)
C2827	ECEA0JKA221B	CAPACITOR	(M)
C2842	ECJ1VB1C104K	CAPACITOR	(M)
C2843	ERJ3GEY0R00V	CHIP JUMPER	(M)
C2846	ECJ1VC1H101K	CHIP RESISTOR	(M)
C2847	ECJ1VC1H101K	CHIP RESISTOR	(M)
C2848	ECJ1VC1H101K	CHIP RESISTOR	(M)
C2849	ECJ1VC1H101K	CHIP RESISTOR	(M)
C2850	ECJ1VC1H101K	CHIP RESISTOR	(M)
C2851	ECJ1VC1H101K	CHIP RESISTOR	(M)
C2855	ECEA1HKN4R7B	RESISTENCIA	(M)
C2857	ECEA1CKA100B	CAPACITOR	(M)
C2858	ECEA1CKA100B	CAPACITOR	(M)
C2860	ECEA1HKA4R7B	CAPACITOR	(M)
C2862	ECEA1HKA4R7B	CAPACITOR	(M)
C2864	ECEA1HKA100B	CAPACITOR	(M)

C2865	ECEA1HKA4R7B	CAPACITOR	(M)
C2872	ECJ1VB1E103K	CHIP CAPACITOR	(M)
C2873	ECJ1VB1E103K	CHIP CAPACITOR	(M)
C2875	ECJ1VF1A105Z	CHIP CAPACITOR	(M)
C2899	ECEA1HKA2R2B	CAPACITOR	(M)
C2900	ECJ1VB1H472K	CHIP CAPACITOR	(M)
C2901	ECJ1VB1H561K	CHIP CAPACITOR	(M)
C2902	ECJ1VB1H102K	CHIP CAPACITOR	(M)
C2903	ECJ1VB1E103K	CHIP CAPACITOR	(M)
C2904	F1H1H272A013	CHIP RESISTOR	(M)
C2905	ECJ1VB1H102K	CHIP CAPACITOR	(M)
C2907	ECJ1VB1H182K	CHIP CAPACITOR	(M)
C2912	ECJ2VF1E473Z	CHIP CAPACITOR	(M)
C2913	ECJ1VB1H104K	CAPACITOR CHIP	(M)
C2914	ECJ1VB1A224K	CHIP - R	(M)
C2915	ECJ1VB1A224K	CHIP - R	(M)
C2916	ECEA1CKA101B	CAPACITOR	(M)
C2917	ECJ1VB1C683K	CAPACITOR CHIP	(M)
C2918	ECJ1VB1C683K	CAPACITOR CHIP	(M)
C2919	ECJ1VB1C683K	CAPACITOR CHIP	(M)
C2920	ECJ1VB1C683K	CAPACITOR CHIP	(M)
C2921	ECEA1CKA470B	CAPACITOR	(M)
C2922	ECEA1CKA101B	CAPACITOR	(M)
C2923	ECJ1VB1H104K	CAPACITOR CHIP	(M)
C2924	ECJ1VB1H104K	CAPACITOR CHIP	(M)
C2925	ECJ1VB1H102K	CHIP CAPACITOR	(M)
C2926	ECJ1VB1H472K	CHIP CAPACITOR	(M)
C2927	ECJ1VB1C683K	CAPACITOR CHIP	(M)
C2928	ECJ1VB1H104K	CAPACITOR CHIP	(M)
C2929	ECJ1VB1H104K	CAPACITOR CHIP	(M)
C2930	ECJ1VB1C683K	CAPACITOR CHIP	(M)
C2931	ECJ1VB1H102K	CHIP CAPACITOR	(M)
C2932	ECJ1VB1H472K	CHIP CAPACITOR	(M)
C2933	ECEA1HKA010B	CAPACITOR	(M)
C2934	ECEA1CKA101B	CAPACITOR	(M)
C2935	ECJ1VB1H104K	CAPACITOR CHIP	(M)
C2936	ECEA1HKA2R2B	CAPACITOR	(M)
C2937	F1H1H332A013	CHIP RESISTOR	(M)
C2938	ECJ2VB1C154K	CAPACITOR CHIP	(M)
C2939	ECEA1HKA010B	CAPACITOR	(M)
C2940	ECEA1HKA010B	CAPACITOR	(M)
C2941	ECEA1HKA010B	CAPACITOR	(M)
C2942	ECJ1VB1H102K	CHIP CAPACITOR	(M)
C2943	ECJ1VB1H102K	CHIP CAPACITOR	(M)
C2944	ECJ1VB1H123K	CHIP CAPACITOR	(M)
C2947	ECJ1VC1H102J	CHIP CAPACITOR	(M)
C2948	ECJ1VC1H102J	CHIP CAPACITOR	(M)
C2953	ECJ1VB1A224K	CHIP - R	(M)
C2954	ECEA1HKA100B	CAPACITOR	(M)
C2961	ECJ1VC1H102J	CHIP CAPACITOR	(M)
C2962	ECEA1CKA470B	CAPACITOR	(M)
C2963	ECEA1CKA470B	CAPACITOR	(M)
C2964	ECJ1VC1H101K	CHIP RESISTOR	(M)
C2965	ECJ1VB1A224K	CHIP - R	(M)
C2968	ECJ1VB1A105K	CHIP CAPACITOR	(M)
C2969	ECJ1VC1H100D	CAPACITOR	(M)
C2970	ECJ1VB1A224K	CHIP - R	(M)
C2973	ECA1CM101B	CAPACITOR	(M)
C2974	ECA0JM102B	CAPACITOR ELECTRONICO	(M)
C2975	ECA0JM102B	CAPACITOR ELECTRONICO	(M)
C2977	ECJ1VB1H471K	CHIP CAPACITOR	(M)
C2978	ECJ1VC1H101K	CHIP RESISTOR	(M)
C2979	ECEA1HKN4R7B	RESISTENCIA	(M)
C2981	ECJ1VB1H471K	CHIP CAPACITOR	(M)
C2982	ECJ1VB1H471K	CHIP CAPACITOR	(M)
C2983	ECJ1VB1H103K	CHIP CAPACITOR	(M)
C2984	ECJ1VB1H103K	CHIP CAPACITOR	(M)
C2985	ECA1CM101B	CAPACITOR	(M)
C2986	ECA1CM100B	C.ELECTROLITICO	(M)
C2987	ECEA1AKN100B	CAPACITOR	(M)
C2988	ECJ1VB1H103K	CHIP CAPACITOR	(M)
C2989	ECJ1VB1H103K	CHIP CAPACITOR	(M)
C2990	ECA1CM101B	CAPACITOR	(M)
C2991	ECA1CM100B	C.ELECTROLITICO	(M)
C2992	ECEA1AKN100B	CAPACITOR	(M)
C3	F1D1H2R2A017	CAPACITOR	(M)

C3602	ECEA1CKA100B	CAPACITOR	(M)
C3603	ECJ1VB1H103K	CHIP CAPACITOR	(M)
C3604	ECJ1VB1H102K	CHIP CAPACITOR	(M)
C3606	ECJ1VB1H103K	CHIP CAPACITOR	(M)
C3607	ECJ1VB1E473K	CAPACITOR CHIP	(M)
C3608	ECJ1VC1H080D	CHIP CAPACITOR	(M)
C3609	ECJ1VB1H102K	CHIP CAPACITOR	(M)
C3610	ECJ1VB1H103K	CHIP CAPACITOR	(M)
C3611	ECEA1HKA4R7B	CAPACITOR	(M)
C3612	F2A0J102A130	CAPACITOR ELECTRONICO	(M)
C3617	ECEA1AKA221B	CAPACITOR ELECTROLITICO	(M)
C3618	ECEA1AKA221B	CAPACITOR ELECTROLITICO	(M)
C3623	ECJ1VB1C104K	CAPACITOR	(M)
C3625	ECJ1VB1C105K	CERAMIC CONDENSER	(M)
C4	F1D1H181A012	CAPACITOR	(M)
C5	F1D1H5R6A017	CAPACITOR	(M)
C5100	ECJ1VB1H821K	CHIP CAPACITOR	(M)
C5101	ECJ1VC1H150J	CHIP CAPACITOR	(M)
C5102	ECJ1VB1H104K	CAPACITOR CHIP	(M)
C5103	ECJ1VB1H104K	CAPACITOR CHIP	(M)
C5200	ECJ1VB1H821K	CHIP CAPACITOR	(M)
C5201	ECJ1VC1H150J	CHIP CAPACITOR	(M)
C5202	ECJ1VB1H104K	CAPACITOR CHIP	(M)
C5203	ECJ1VB1H104K	CAPACITOR CHIP	(M)
C5300	ECJ1VC1H150J	CHIP CAPACITOR	(M)
C5301	ECJ1VB1H104K	CAPACITOR CHIP	(M)
C5302	ECJ1VB1H104K	CAPACITOR CHIP	(M)
C5303	ECJ1VB1H821K	CHIP CAPACITOR	(M)
C5400	ECJ1VC1H150J	CHIP CAPACITOR	(M)
C5401	ECJ1VB1H104K	CAPACITOR CHIP	(M)
C5402	ECJ1VB1H104K	CAPACITOR CHIP	(M)
C5403	ECJ1VB1H821K	CHIP CAPACITOR	(M)
C5500	ECJ1VB1H821K	CHIP CAPACITOR	(M)
C5501	ECJ1VC1H150J	CHIP CAPACITOR	(M)
C5502	ECJ1VB1H104K	CAPACITOR CHIP	(M)
C5503	ECJ1VB1H104K	CAPACITOR CHIP	(M)
C5600	ECJ1VB1H821K	CHIP CAPACITOR	(M)
C5601	ECJ1VC1H150J	CHIP CAPACITOR	(M)
C5602	ECJ1VB1H104K	CAPACITOR CHIP	(M)
C5603	ECJ1VB1H104K	CAPACITOR CHIP	(M)
C5604	ECJ1VB1H104K	CAPACITOR CHIP	(M)
C5605	ECJ1VB1H104K	CAPACITOR CHIP	(M)
C5700	ECJ1VB1H821K	CHIP CAPACITOR	(M)
C5701	ECJ1VC1H150J	CHIP CAPACITOR	(M)
C5702	ECJ1VB1H104K	CAPACITOR CHIP	(M)
C5703	ECJ1VB1H104K	CAPACITOR CHIP	(M)
C5801	F2A1E471A205	E. CAP	(M)
C5802	ECA1CM331B	C.ELECTROLITICO	(M)
C5803	ECJ1VB1H102K	CHIP CAPACITOR	(M)
C5804	ECJ1VB1H103K	CHIP CAPACITOR	(M)
C5805	ECA1CM101B	CAPACITOR	(M)
C5806	ECJ1VB1H103K	CHIP CAPACITOR	(M)
C5807	ECEA1HKA2R2B	CAPACITOR	(M)
C5808	ECA1CM331B	C.ELECTROLITICO	(M)
C5809	ECJ1VB1H103K	CHIP CAPACITOR	(M)
C5810	ECA1EM101B	CAPACITOR	(M)
C5811	ECJ1VB1H103K	CHIP CAPACITOR	(M)
C5812	ECEA1EKA330B	CAPACITOR ELECTROLITICO	(M)
C5813	ECEA0JKA221B	CAPACITOR	(M)
C5814	ECJ1VB1H103K	CHIP CAPACITOR	(M)
C5815	F2A1J332A306	CAPACITOR	(M)
C5816	ECA1EM222B	CAPACITOR	(M)
C5817	ECA1EM222B	CAPACITOR	(M)
C5818	F2A1J332A306	CAPACITOR	(M)
C5819	ECJ1VB1H103K	CHIP CAPACITOR	(M)
C5834	ECEA1HKA010B	CAPACITOR	(M)
C5836	ECEA2AU100B	CAPACITOR	(M)
C5837	ECEA1HKA010B	CAPACITOR	(M)
C6	F1D1H3R3A017	CAPACITOR	(M)
C6800	ECEA1CKA470B	CAPACITOR	(M)
C6801	ECJ1VB1H102K	CHIP CAPACITOR	(M)
C6802	ECEA1CKA470B	CAPACITOR	(M)
C6803	ECJ1VB1H102K	CHIP CAPACITOR	(M)
C6804	ECEA1HKA4R7B	CAPACITOR	(M)
C6805	ECJ1VC1H101K	CHIP RESISTOR	(M)
C6806	ECJ2VF1E473Z	CHIP CAPACITOR	(M)

C6807	ECJ1VB1H102K	CHIP CAPACITOR	(M)
C6808	ECJ1VB1H102K	CHIP CAPACITOR	(M)
C6809	ECJ1VB1H103K	CHIP CAPACITOR	(M)
C6810	ECJ1VC1H101K	CHIP RESISTOR	(M)
C6811	ECA1CM471B	CAPACITOR	(M)
C6812	ECJ1VB1H102K	CHIP CAPACITOR	(M)
C6813	ECEA0JKA101B	CAPACITOR	(M)
C6843	ECJ1VB1C223K	CAPACITOR	(M)
C6844	ECJ1VB1C223K	CAPACITOR	(M)
C6853	ECEA0JKA470B	CAPACITOR	(M)
C6854	ECEA1HKA3R3B	CAPACITOR	(M)
C6855	ECEA1HKA220B	CAPACITOR	(M)
C6856	ECEA1HKA220B	CAPACITOR	(M)
C6864	ECJ2VF1E473Z	CHIP CAPACITOR	(M)
C6865	ECEA1HKA010B	CAPACITOR	(M)
C6866	ECJ1VB1H102K	CHIP CAPACITOR	(M)
C6867	ECJ1VC1H101K	CHIP RESISTOR	(M)
C6868	ECJ1VB1H102K	CHIP CAPACITOR	(M)
C6870	ECEA1HKA010B	CAPACITOR	(M)
C6871	ECJ1VB1H103K	CHIP CAPACITOR	(M)
C6872	ECEA1HKAR33B	CAPACITOR	(M)
C6873	ECJ1VB1C105K	CERAMIC CONDENSER	(M)
C6875	ECJ1VB1C223K	CAPACITOR	(M)
C6876	ECJ1VB1C223K	CAPACITOR	(M)
C6879	ECEA1HKA4R7B	CAPACITOR	(M)
C6881	ECEA1HKA3R3B	CAPACITOR	(M)
C6882	ECJ1VB1H471K	CHIP CAPACITOR	(M)
C6885	F1H1H331A013	CHIP RESISTOR	(M)
C6886	F1H1H331A013	CHIP RESISTOR	(M)
C6887	F1H1H331A013	CHIP RESISTOR	(M)
C6888	F1H1H331A013	CHIP RESISTOR	(M)
C6889	ECJ1VB1H104K	CAPACITOR CHIP	(M)
C6890	ECEA0JKA101B	CAPACITOR	(M)
C6891	ECJ1VC1H101K	CHIP RESISTOR	(M)
C6894	ECJ1VB1H102K	CHIP CAPACITOR	(M)
C6895	F2A1C100A234	ELECTROLYTIC CAPACITOR	(M)
C6895	ECA1CAK100XB	CAPACITOR ELECTROLITICO	(M)
C6896	ECJ1VC1H101K	CHIP RESISTOR	(M)
C6897	ECJ1VC1H101K	CHIP RESISTOR	(M)
C6898	F1H1H332A013	CHIP RESISTOR	(M)
C7	F1D1H4R7A017	CAPACITOR	(M)
C8	F1D1H3R3A017	CAPACITOR	(M)
C9	F1D1H2R2A017	CAPACITOR	(M)
C9500	ECQE1104KF3	CAPACITOR	(M)
C9501	ECQE1104KF3	CAPACITOR	(M)
C9502	F1B1H103A151	CAPACIOTOR CERAMICO	(M)
C9503	F1B1H102A146	SEMI-CONDUCTIVE CAP	(M)
C9504	F1B1H103A153	CAPACIOTOR CERAMICO	(M)
C9505	F1B1H103A151	CAPACIOTOR CERAMICO	(M)
C9506	F1B2H103A060	CAPACITOR CERAMICO	(M)
C9507	F1D1H101A012	CAPACITOR CERAMICO	(M)
C9508	ECEA1AKA470B	CAPACITOR	(M)
C9509	ECA1HM470B	ELECTROLYTIC CAPACITOR	(M)
C9510	F2A1E471A205	E. CAP	(M)
C9511	F2A1E471A205	E. CAP	(M)
C9512	ECA1HM470B	ELECTROLYTIC CAPACITOR	(M)
C9513	ECA1EM472B	CAPACITOR	(M)
C9514	EEUFC1E102B	CAPACITOR	(M)
C9515	ECA0JM102B	CAPACITOR ELECTRONICO	(M)
C9517	ECEA1HKA100B	CAPACITOR	(M)
C9533	ECEA1HKA010B	CAPACITOR	(M)
C9533	ECA1JM222B	CAPACITOR ELECTROLITICO	(M)
C9534	ECA1JM222B	CAPACITOR ELECTROLITICO	(M)
CF2601	J0B1075AA014	BOBINA	(M)
CF2602	J0B1075AA014	BOBINA	(M)
CN2801	K1KB12B00036	P2 MO CONNECTOR (12 LOC)	(M)
CN2802	K1KB12B00036	P2 MO CONNECTOR (12 LOC)	(M)
CN2808	K1KA06A00308	CONECTOR	(M)
CN2810	K1MN14BA0004	14 PIN FFC	(M)
CN2811	K1MN30A00046	CONECTOR 30P	(M)
CN2813	K1MN50A00008	1-PIECE CONNECTORS	(M)
CN2814	K1KA03AA0301	CONECTOR	(M)
CN2815	K1KA02AA0186	CONECTOR	(M)
CN2816	K1KA02AA0186	CONECTOR	(M)
CN5800	K1KA12AA0424	CONNECTOR	(M)
CN5801	K1KA12AA0424	CONNECTOR	(M)

CN5802	K1KA02A00375	2P CONNECTOR	(M)
CN5804	K1KA15AA0319	15 PIN WIRE HOLDER	(M)
CN6811	K1MN30BA0167	30 PIN CONNECTOR	(M)
CN9500	K1KA07A00184	7P CONNECTOR	(M)
CP6800	K1MN10B00104	10P FFC CONNECTOR	(M)
CP6803	K1MN14A00049	FF CONECTOR	(M)

DIODE

REF No	PART NUMBER	DESCRIPTION	REMARKS
D1	B0CBAD000004	DIODO	(M)
D2	B0CBAD000004	DIODO	(M)
D2601	B0BC5R000009	CHIP ZENER DIODE	(M)
D2602	B0CDBB000015	CHIP DIODE	(M)
D2809	B0ACCK000005	CHIP DIODE	(M)
D2810	B0EAKM000117	DIODO	(M)
D2811	B0EAKM000117	DIODO	(M)
D2818	B0ACCK000005	CHIP DIODE	(M)
D2836	B0EAKM000117	DIODO	(M)
D2837	B0EAKM000117	DIODO	(M)
D2900	B0BC5R000009	CHIP ZENER DIODE	(M)
D2901	B0ACCK000005	CHIP DIODE	(M)
D2905	B0ACCK000005	CHIP DIODE	(M)
D2906	B0ACCK000005	CHIP DIODE	(M)
D2908	B0ACCK000005	CHIP DIODE	(M)
D2909	B0ACCK000005	CHIP DIODE	(M)
D2910	B0ACCE000003	DIODO	(M)
D2911	B0ACCK000005	CHIP DIODE	(M)
D2912	B0ACCK000005	CHIP DIODE	(M)
D2913	B0ADCJ000020	DUAL CHIP DIODE	(M)
D2914	B0ACCK000005	CHIP DIODE	(M)
D2915	B0ACCK000005	CHIP DIODE	(M)
D2916	B0ACCK000005	CHIP DIODE	(M)
D2917	B0ACCK000005	CHIP DIODE	(M)
D2918	B0ACCK000005	CHIP DIODE	(M)
D2919	B0ACCK000005	CHIP DIODE	(M)
D3	B0CBAD000004	DIODO	(M)
D5801	B0BC010A0007	DIODO	(M)
D5802	B0BC01500006	15V ZENER DIODE	(M)
D5803	B0BC01600013	DIODO	(M)
D5804	B0ACCK000005	CHIP DIODE	(M)
D5805	B0EAKM000117	DIODO	(M)
D5806	B0EAKM000117	DIODO	(M)
D5809	B0ACCK000005	CHIP DIODE	(M)
D5810	B0BC01000014	DIODO	(M)
D5820	B0BC01500006	15V ZENER DIODE	(M)
D5821	B0BC5R600003	CHIP DIODO	(M)
D6800	B0BC5R600003	CHIP DIODO	(M)
D6801	B3AAA0000583	LED	(M)
D6802	B0ACCE000003	DIODO	(M)
D6809	B3AEA0000041	DIODO	(M)
D6810	B3AEA0000041	DIODO	(M)
D6812	B0BC8R100004	DIODO	(M)
D6813	B0BC8R100004	DIODO	(M)
D6814	ERJ3GEY0R00V	CHIP JUMPER	(M)
D6815	MAZ80560ML	DIODO ZENER	(M)
D9500	B0AACK000004	DIODE	(M)
D9501	B0AACK000004	DIODE	(M)
D9502	B0BA7R000005	DIODO	(M)
D9503	B0JAPG000019	DIODE	(M)
D9504	B0FBAM000009	RECTIFICADOR DE PUENTE DE 8 A	(M)
D9505	B0FBAM000009	RECTIFICADOR DE PUENTE DE 8 A	(M)
D9508	B0EAKM000125	DIODO	(M)
D9509	B0EAKM000125	DIODO	(M)
D9510	B0AACK000004	DIODE	(M)
D9511	B0EAKM000125	DIODO	(M)
D9512	B0EAKM000125	DIODO	(M)
D9513	B0EAKM000126	DIODO	(M)
D9514	B0EAKM000126	DIODO	(M)
D9515	B0BA7R000005	DIODO	(M)
D9516	B0BA03100002	ZENER DIODE	(M)
D9517	B0EAKM000125	DIODO	(M)
D9518	B0EAMM000038	DIODO RECTIFICADOR	(M)
D9519	B0EAMM000038	DIODO RECTIFICADOR	(M)
D9520	B0EAMM000038	DIODO RECTIFICADOR	(M)
D9521	B0EAMM000038	DIODO RECTIFICADOR	(M)

D9522	B0EAKM000126	DIODO	(M)
D9523	B0EAKM000126	DIODO	(M)
D9524	B0EAKM000126	DIODO	(M)
D9525	B0EAKM000126	DIODO	(M)
D9526	B0EAKM000126	DIODO	(M)
D9527	B0EAKM000126	DIODO	(M)
D9528	B0EAKM000126	DIODO	(M)
D9529	B0EAKM000126	DIODO	(M)

EARTH TERMINAL

REF No	PART NUMBER	DESCRIPTION	REMARKS
E5801	SNE1004-3	TERMINAL DE TIERRA	(M)

FUSE

REF No	PART NUMBER	DESCRIPTION	REMARKS
F1	K5D402BLA013	FUSE 250V T4AL	(M)
FP5833	K5G401A00008	FUSIBLE	(M)
FP9500	K5G102A00039	FUSIBLE	(M)
FP9501	K5G402A00025	FUSIBLE	(M)
FP9502	K5G402A00025	FUSIBLE	(M)
FP9503	K5G402A00025	FUSIBLE	(M)

RESISTORS

REF No	PART NUMBER	DESCRIPTION	REMARKS
FC1	K3GE1BA00021	RESISTENCIA FUSIBLE	(M)
FC2	K3GE1BA00021	RESISTENCIA FUSIBLE	(M)

JUMPERS

REF No	PART NUMBER	DESCRIPTION	REMARKS
FJ1	Z-W6NL	ALAMBRE JUMPER	(M)
FJ2	Z-W6NL	ALAMBRE JUMPER	(M)
FJ3	Z-W6NL	ALAMBRE JUMPER	(M)
FJ4	Z-W6NL	ALAMBRE JUMPER	(M)
FJ5	Z-W6NL	ALAMBRE JUMPER	(M)
FJ6	Z-W6NL	ALAMBRE JUMPER	(M)
FJ7	Z-W6NL	ALAMBRE JUMPER	(M)
FJ8	Z-W6NL	ALAMBRE JUMPER	(M)

FL DISPLAY

REF No	PART NUMBER	DESCRIPTION	REMARKS
FL6800	A2BD00000125	FL DISPLAY	(M)

HOLDERS

REF No	PART NUMBER	DESCRIPTION	REMARKS
H5803	K1YF10000006	10 PIN WIRE HOLDER	(M)
H5804	K1YF11000004	11 PIN WIRE HOLDER	(M)
H5900	K1YF11000004	11 PIN WIRE HOLDER	(M)
H5901	K1YF10000006	10 PIN WIRE HOLDER	(M)

JACKS

REF No	PART NUMBER	DESCRIPTION	REMARKS
H6800	K1YZ07000001	JACK	(M)
H6805	K1YZ05000005	JACK	(M)
H6806	K1YZ05000005	JACK	(M)
H6807	K1YF06000001	CONECTOR	(M)
H6810	K1YZ02000015	2P WIRE HOLDER	(M)
H9500	REXX0481-1	2P FLAT WIRE	(M)
H9500	K1YF15000004	15 PIN WIRE HOLDER	(M)

INTEGRATED CIRCUIT

REF No	PART NUMBER	DESCRIPTION	REMARKS
IC2006	C9ZB00000498	BUFFER IC VIDEO	(M)
IC2601	C1BB00000962	IC PREAMPLIFICADOR	(M)
IC2602	C1CB00001937	IC PLL	(M)
IC2800	C1BB00000979	ANALOG SURROUND IC	(M)
IC2803	C0DBEZG00021	LDO REGULATOR	(M)
IC2811	C0AABA000009	AMPLIFICADOR OPERACIONAL	(M)
IC2812	C1BB00000845	ASP IC	(M)
IC2813	C1BB00001012	KARAOKE IC	(M)
IC2814	KIA4558FEL	CIRCUITO INTEGRADO	(M)

IC2815	KIA4558FEL	CIRCUITO INTEGRADO	(M)
IC2816	C3EBEG000072	IC	(M)
IC2817	C1BB00000086	SPE ANA IC	(M)
IC2818	C2CBJG000653	MICRO-P	(M)
IC2819	KIA4558FEL	CIRCUITO INTEGRADO	(M)
IC5001	RSN35H2B-P	HIC	(M)
IC5002	RSN35H2B-P	HIC	(M)
IC5801	RSN315H42C-P	HIC	(M)
IC6803	C0HBB0000039	FL DRIVE IC	(M)
IC9500	C0DAAZG00012	DC-DC CONVERTER IC	(M)

JUMPER

REF No	PART NUMBER	DESCRIPTION	REMARKS
J1	Z-W6NL	ALAMBRE JUMPER	(M)
J2	Z-W6NL	ALAMBRE JUMPER	(M)
J3	Z-W6NL	ALAMBRE JUMPER	(M)
J4	Z-W6NL	ALAMBRE JUMPER	(M)
JK2601	K4BC04B00105	ANTENA JACK	(M)
JK2801	K1CB105B0046	S-VIDEO JACK	(M)
JK2802	K2HA408B0083	COMP/VIDEO JACK	(M)
JK2803	K2HA204B0166	PIN RCA JACK	(M)
JK2804	K2HA102B0064	CONECTOR	(M)
JK6800	K2HB102J0038	JACK	(M)
JK6801	K2HC103A0024	JACKS FOR SMALL SIGNAL	(M)
JK6802	K2HB102J0038	JACK	(M)
JK9500	K2AA2B000009	AC IN	(M)
JK9501	REJM0001	SPEAKER TERMINAL	(M)
JK9502	K4BC06B00063	N6 P SPEAKER JACK	(M)
JK9503	REJM0001	SPEAKER TERMINAL	(M)
K2802	Z-W6NL	ALAMBRE JUMPER	(M)
K2900	Z-W6NL	ALAMBRE JUMPER	(M)
K2905	ERJ3GEY0R00V	CHIP JUMPER	(M)
K2906	ERJ3GEY0R00V	CHIP JUMPER	(M)
K2907	Z-W6NL	ALAMBRE JUMPER	(M)
K2908	Z-W6NL	ALAMBRE JUMPER	(M)
K5801	Z-W6NL	ALAMBRE JUMPER	(M)
K5801	Z-W6NL	ALAMBRE JUMPER	(M)
K5802	Z-W6NL	ALAMBRE JUMPER	(M)
K5802	Z-W6NL	ALAMBRE JUMPER	(M)
K5802	Z-W6NL	ALAMBRE JUMPER	(M)
K5804	Z-W6NL	ALAMBRE JUMPER	(M)
K5804	Z-W6NL	ALAMBRE JUMPER	(M)
K5804	Z-W6NL	ALAMBRE JUMPER	(M)
K6803	Z-W6NL	ALAMBRE JUMPER	(M)
K6804	Z-W6NL	ALAMBRE JUMPER	(M)
K6806	Z-W6NL	ALAMBRE JUMPER	(M)
K9801	Z-W6NL	ALAMBRE JUMPER	(M)
K9802	Z-W6NL	ALAMBRE JUMPER	(M)
K9808	Z-W6NL	ALAMBRE JUMPER	(M)
K9809	Z-W6NL	ALAMBRE JUMPER	(M)
K9810	Z-W6NL	ALAMBRE JUMPER	(M)
K9811	Z-W6NL	ALAMBRE JUMPER	(M)
K9812	Z-W6NL	ALAMBRE JUMPER	(M)

COILS

REF No	PART NUMBER	DESCRIPTION	REMARKS
L1	RLQZP1R2KT-Y	BOBINA AXIAL	(M)
L2	RLQZPR47KT-Y	BOBINA AXIAL	(M)
L2601	G2A411C00001	Coil	(M)
L2602	G2BPC0000016	OSCILLATOR COIL	(M)
L2802	ERJ3GEY0R00V	CHIP JUMPER	(M)
L2804	G0C101JA0052	INDUCTOR	(M)
L2806	J0JBC0000041	CHIP INDUCTOR	(M)
L2807	J0JBC0000041	CHIP INDUCTOR	(M)
L2808	J0JBC0000019	CHIP INDUCTOR	(M)
L2809	J0JBC0000041	CHIP INDUCTOR	(M)
L2810	J0JBC0000041	CHIP INDUCTOR	(M)
L2811	J0JCC0000120	CHIP BOBINA	(M)
L2812	J0JCC0000120	CHIP BOBINA	(M)
L2813	J0JCC0000120	CHIP BOBINA	(M)
L2814	J0JCC0000120	CHIP BOBINA	(M)
L2815	J0JCC0000120	CHIP BOBINA	(M)
L2816	J0JCC0000120	CHIP BOBINA	(M)
L2904	G0A200D00002	BOBINA	(M)
L2905	G0A200D00002	BOBINA	(M)

L2906	Z-W6NL	ALAMBRE JUMPER	(M)
L5404	Z-W6NL	ALAMBRE JUMPER	(M)
L5405	Z-W6NL	ALAMBRE JUMPER	(M)
L5406	Z-W6NL	ALAMBRE JUMPER	(M)
L6801	G0C101JA0052	INDUCTOR	(M)
L6802	G0C101JA0052	INDUCTOR	(M)
L6803	G0C101JA0052	INDUCTOR	(M)
L6804	G0C100JA0052	INDUCTOR	(M)
L6805	G0C100JA0052	INDUCTOR	(M)
L6806	G0C3R3JA0052	INDUCTOR	(M)
L6808	G0C100JA0052	INDUCTOR	(M)
L6809	G0C100JA0052	INDUCTOR	(M)
L9500	G0A101G00022	BOBINA	(M)
L9502	Z-W6NL	ALAMBRE JUMPER	(M)
L9503	Z-W6NL	ALAMBRE JUMPER	(M)
L9504	G0AR76Y00001	CHOKE COIL	(M)
L9505	Z-W6NL	ALAMBRE JUMPER	(M)
L9507	Z-W6NL	ALAMBRE JUMPER	(M)

TRANSISTORS

REF No	PART NUMBER	DESCRIPTION	REMARKS
Q1	B1CECC000003	TRANSISITOR	(M)
Q2	2SC2786MTA	TRANSISTOR	(M)
Q2601	B1AABC000003	TRANSISTOR	(M)
Q2606	B1GCCFJJ0016	Transistor	(M)
Q2702	B1GBCFJJ0051	TRANSISTOR	(M)
Q2703	B1GDCFJJ0047	TRANSISTOR	(M)
Q2704	B1GDCFJJ0047	TRANSISTOR	(M)
Q2710	B1GBCFJJ0051	TRANSISTOR	(M)
Q2806	B1GBCFJN0033	TRANSISTOR	(M)
Q2813	B1GFGCAA0001	CHIP TRANSISTOR	(M)
Q2814	B1GDCFGA0018	TRANSISTOR	(M)
Q2815	B1GDCFGA0018	TRANSISTOR	(M)
Q2816	B1GDCFGA0018	TRANSISTOR	(M)
Q2818	B1GFGCAA0001	CHIP TRANSISTOR	(M)
Q2819	B1GFGCAA0001	CHIP TRANSISTOR	(M)
Q2820	B1ABEB000002	TRANSISTOR	(M)
Q2822	B1GDCFGA0018	TRANSISTOR	(M)
Q2823	B1GDCFGA0018	TRANSISTOR	(M)
Q2825	B1ABEB000002	TRANSISTOR	(M)
Q2838	B1GBCFJN0033	TRANSISTOR	(M)
Q2906	B1GBCFJA0028	TRANSISTOR	(M)
Q2909	2SD0592ARA	TRANSISTOR	(M)
Q2910	2SD0601AHL	TRANSISTOR CHIP	(M)
Q2911	2SB0709AHL	TRANSISTOR CHIP	(M)
Q2912	2SB0709AHL	TRANSISTOR CHIP	(M)
Q2913	2SD0601AHL	TRANSISTOR CHIP	(M)
Q2914	2SD0592ARA	TRANSISTOR	(M)
Q2915	2SB0709AHL	TRANSISTOR CHIP	(M)
Q2916	2SB0709AHL	TRANSISTOR CHIP	(M)
Q2917	B1ABEB000002	TRANSISTOR	(M)
Q2919	B1GFGCAA0001	CHIP TRANSISTOR	(M)
Q2920	B1GDCFGA0018	TRANSISTOR	(M)
Q3	2SC2787FL1TA	TRANSISTOR	(M)
Q4	2SC2787FL1TA	TRANSISTOR	(M)
Q5801	B1ABCF000176	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)
Q5807	B1ABCF000176	TRANSISTOR	(M)
Q5808	B1AAKD000014	TRANSISTOR	(M)
Q5808	B1AAKD000014	TRANSISTOR	(M)
Q5809	B1BACG000023	TRANSISTOR	(M)
Q5810	B1ABCF000176	TRANSISTOR	(M)
Q5811	B1ABCF000176	TRANSISTOR	(M)
Q6800	B1ACKD000006	TRANSISTOR	(M)
Q6801	B1ACKD000006	TRANSISTOR	(M)
Q6802	B1GBCFJJ0051	TRANSISTOR	(M)
Q6803	B1ACCF000094	TRANSISTOR	(M)
Q6804	B1ACCF000094	TRANSISTOR	(M)
Q6805	B1GACFJJ0018	TRANSISTOR	(M)
Q6806	B1ABCF000176	TRANSISTOR	(M)

Q6807	B1ABCF000176	TRANSISTOR	(M)
Q6808	B1GBCFJJ0051	TRANSISTOR	(M)
Q6809	B1GFGCAA0001	CHIP TRANSISTOR	(M)
Q6810	B1GCCFGA0006	TRANSISTOR	(M)
Q6811	B1GBCFJN0033	TRANSISTOR	(M)
Q6817	B1ABCF000176	TRANSISTOR	(M)
Q6820	B1GBCFJN0033	TRANSISTOR	(M)
Q9500	B1AAGC000007	TRANSISTOR	(M)
Q9501	2SD21370PA	TRANSISTOR	(M)
Q9502	B1AAGC000007	TRANSISTOR	(M)
Q9503	2SB0621AHA	TRANSISTOR	(M)
Q9504	B1ACKD000006	TRANSISTOR	(M)

RESISTORS

REF No	PART NUMBER	DESCRIPTION	REMARKS
R1	ERDS2TJ104T	RESISTENCIA	(M)
R10	ERDS2TJ391T	RESISTENCIA CARBON	(M)
R11	ERDS2TJ684T	RESISTENCIA CARBON	(M)
R2	ERDS2TJ104T	RESISTENCIA	(M)

JUMPERS

REF No	PART NUMBER	DESCRIPTION	REMARKS
R2052	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2053	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2054	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2055	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2056	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2057	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2058	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2059	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2060	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2061	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2062	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2064	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2065	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2066	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2067	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2068	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2069	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2070	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2072	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2073	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2074	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2075	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2076	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2077	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2078	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2079	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2080	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2081	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2084	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2086	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2088	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2089	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2090	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2091	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2094	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2095	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2096	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2097	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2098	ERJ3GEY0R00V	CHIP JUMPER	(M)

RESISTORS

REF No	PART NUMBER	DESCRIPTION	REMARKS
R2100	D0GB222JA041	RESISTENCIA	(M)
R2100	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R2101	ERJ3GEYJ392V	RESISTENCIA CHIP PELÖCULA	(M)
R2102	ERJ3GEYJ822V	RESISTENCIA CHIP PELÖCULA	(M)
R2103	D0GB332JA008	CHIP RESISTENCIA	(M)
R2104	ERJ3GEYJ682V	RESISTENCIA CHIP PELÖCULA	(M)
R2105	D0GB472JA041	RESISTENCIA	(M)
R2106	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2107	D0GB473JA041	RESISTENCIA	(M)
R2108	D0GB332JA008	CHIP RESISTENCIA	(M)

R2109	D0GB123JA008	CHIP RESISTENCIA	(M)
R2110	ERJ3GEYJ104V	RESISTENCIA CHIP PELÖCULA	(M)
R2111	ERJ3GEYJ272V	RESISTENCIA CHIP PELÖCULA	(M)
R2112	ERJ3GEYJ104V	RESISTENCIA CHIP PELÖCULA	(M)
R2113	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R2114	D0GB473JA041	RESISTENCIA	(M)
R2115	ERJ3GEYJ822V	RESISTENCIA CHIP PELÖCULA	(M)
R2116	ERJ3GEYJ223V	RESISTENCIA CHIP PELÖCULA	(M)
R2117	D0GB332JA008	CHIP RESISTENCIA	(M)
R2118	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2119	D0GB224JA008	CHIP RESISTENCIA	(M)
R2120	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2121	D0GB273JA008	CHIP RESISTENCIA	(M)
R2122	ERJ3GEYJ683V	RESISTENCIA CHIP PELÖCULA	(M)
R2124	D0GB224JA008	CHIP RESISTENCIA	(M)
R2126	ERJ3GEYJ822V	RESISTENCIA CHIP PELÖCULA	(M)
R2127	ERJ3GEYJ822V	RESISTENCIA CHIP PELÖCULA	(M)
R2128	D0GB332JA008	CHIP RESISTENCIA	(M)
R2129	ERJ3GEYJ101V	RESISTENCIA CHIP PELÖCULA	(M)
R2130	ERJ3GEYJ822V	RESISTENCIA CHIP PELÖCULA	(M)
R2131	D0GB333JA008	CHIP RESISTENCIA	(M)
R2132	D0GB471JA041	RESISTENCIA	(M)
R2133	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2135	D0GB273JA008	CHIP RESISTENCIA	(M)
R2136	D0GB273JA008	CHIP RESISTENCIA	(M)
R2137	ERJ3GEYJ101V	RESISTENCIA CHIP PELÖCULA	(M)
R2138	D0GB333JA008	CHIP RESISTENCIA	(M)
R2139	D0GB123JA008	CHIP RESISTENCIA	(M)
R2154	ERJ3GEYJ334V	RESISTENCIA CHIP	(M)
R2155	D0GB123JA008	CHIP RESISTENCIA	(M)
R2162	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2200	D0GB222JA041	RESISTENCIA	(M)
R2200	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R2201	ERJ3GEYJ392V	RESISTENCIA CHIP PELÖCULA	(M)
R2202	ERJ3GEYJ822V	RESISTENCIA CHIP PELÖCULA	(M)
R2203	D0GB332JA008	CHIP RESISTENCIA	(M)
R2204	ERJ3GEYJ682V	RESISTENCIA CHIP PELÖCULA	(M)
R2205	D0GB472JA041	RESISTENCIA	(M)
R2206	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2207	D0GB473JA041	RESISTENCIA	(M)
R2208	D0GB332JA008	CHIP RESISTENCIA	(M)
R2209	D0GB123JA008	CHIP RESISTENCIA	(M)
R2210	ERJ3GEYJ104V	RESISTENCIA CHIP PELÖCULA	(M)
R2211	ERJ3GEYJ272V	RESISTENCIA CHIP PELÖCULA	(M)
R2212	ERJ3GEYJ104V	RESISTENCIA CHIP PELÖCULA	(M)
R2213	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R2214	D0GB473JA041	RESISTENCIA	(M)
R2215	ERJ3GEYJ822V	RESISTENCIA CHIP PELÖCULA	(M)
R2216	ERJ3GEYJ223V	RESISTENCIA CHIP PELÖCULA	(M)
R2217	D0GB332JA008	CHIP RESISTENCIA	(M)
R2218	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2219	D0GB224JA008	CHIP RESISTENCIA	(M)
R2220	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2221	D0GB273JA008	CHIP RESISTENCIA	(M)
R2222	ERJ3GEYJ683V	RESISTENCIA CHIP PELÖCULA	(M)
R2223	D0GB473JA041	RESISTENCIA	(M)
R2224	D0GB224JA008	CHIP RESISTENCIA	(M)
R2226	ERJ3GEYJ822V	RESISTENCIA CHIP PELÖCULA	(M)
R2227	ERJ3GEYJ822V	RESISTENCIA CHIP PELÖCULA	(M)
R2228	D0GB332JA008	CHIP RESISTENCIA	(M)
R2229	ERJ3GEYJ101V	RESISTENCIA CHIP PELÖCULA	(M)
R2230	ERJ3GEYJ822V	RESISTENCIA CHIP PELÖCULA	(M)
R2231	D0GB333JA008	CHIP RESISTENCIA	(M)
R2232	D0GB471JA041	RESISTENCIA	(M)
R2233	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2235	ERJ3GEYJ562V	RESISTENCIA CHIP PELÖCULA	(M)
R2236	ERJ3GEYJ562V	RESISTENCIA CHIP PELÖCULA	(M)
R2237	ERJ3GEYJ101V	RESISTENCIA CHIP PELÖCULA	(M)
R2238	D0GB333JA008	CHIP RESISTENCIA	(M)
R2239	D0GB123JA008	CHIP RESISTENCIA	(M)
R2253	ERJ3GEYJ334V	RESISTENCIA CHIP	(M)
R2254	D0GB123JA008	CHIP RESISTENCIA	(M)
R2300	D0GB123JA008	CHIP RESISTENCIA	(M)
R2301	D0GB153JA008	CHIP RESISTENCIA	(M)
R2302	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R2303	D0GB222JA041	RESISTENCIA	(M)

R2304	D0GB153JA008	CHIP RESISTENCIA	(M)
R2305	D0GB472JA041	RESISTENCIA	(M)
R2306	D0GB182JA008	CHIP RESISTENCIA	(M)
R2307	ERJ3GEYJ563V	RESISTENCIA CHIP PELÖCULA	(M)
R2310	ERJ3GEYJ271V	RESISTENCIA CHIP PELÖCULA	(M)
R2400	D0GB123JA008	CHIP RESISTENCIA	(M)
R2401	D0GB153JA008	CHIP RESISTENCIA	(M)
R2404	D0GB153JA008	CHIP RESISTENCIA	(M)
R2405	D0GB472JA041	RESISTENCIA	(M)
R2406	D0GB182JA008	CHIP RESISTENCIA	(M)
R2407	ERJ3GEYJ563V	RESISTENCIA CHIP PELÖCULA	(M)
R2410	ERJ3GEYJ271V	RESISTENCIA CHIP PELÖCULA	(M)
R2453	ERJ3GEYJ101V	RESISTENCIA CHIP PELÖCULA	(M)
R2454	ERJ3GEYJ104V	RESISTENCIA CHIP PELÖCULA	(M)
R2455	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2456	D0GB222JA041	RESISTENCIA	(M)
R2457	D0GB222JA041	RESISTENCIA	(M)
R2459	D0GB332JA008	CHIP RESISTENCIA	(M)
R2460	D0GB225JA008	CHIP RESISTENCIA	(M)
R2500	D0GB123JA008	CHIP RESISTENCIA	(M)
R2501	D0GB472JA041	RESISTENCIA	(M)
R2502	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R2503	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2504	D0GB333JA008	CHIP RESISTENCIA	(M)
R2504	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R2505	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R2506	ERJ3GEYJ271V	RESISTENCIA CHIP PELÖCULA	(M)
R2507	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2508	ERJ3GEYJ563V	RESISTENCIA CHIP PELÖCULA	(M)
R2509	D0GB472JA041	RESISTENCIA	(M)
R2510	D0GB153JA008	CHIP RESISTENCIA	(M)
R2511	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2553	ERJ3GEYJ101V	RESISTENCIA CHIP PELÖCULA	(M)
R2558	D0GB473JA041	RESISTENCIA	(M)
R2564	D0GB104JA008	CHIP RESISTENCIA	(M)
R2567	ERJ3GEYJ393V	RESISTENCIA CHIP PELÖCULA	(M)
R2568	D0GB472JA041	RESISTENCIA	(M)
R2569	D0GB153JA008	CHIP RESISTENCIA	(M)
R2580	ERDS1FVJ100T	RESISTENCIA RADIAL	(M)
R2581	ERJ3GEYJ122V	RESISTENCIA CHIP PELÖCULA	(M)
R2582	ERJ3GEYJ104V	RESISTENCIA CHIP PELÖCULA	(M)
R2583	D0GB224JA008	CHIP RESISTENCIA	(M)
R2584	ERJ3GEYJ101V	RESISTENCIA CHIP PELÖCULA	(M)
R2585	ERJ3GEYJ124V	RESISTENCIA CHIP PELÖCULA	(M)
R2586	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R2587	D0GB225JA008	CHIP RESISTENCIA	(M)
R2588	D0GB222JA041	RESISTENCIA	(M)
R2589	D0GB332JA008	CHIP RESISTENCIA	(M)
R2590	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2591	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2592	ERJ3GEYJ104V	RESISTENCIA CHIP PELÖCULA	(M)
R2593	D0GB222JA041	RESISTENCIA	(M)
R2594	ERDS1FVJ100T	RESISTENCIA RADIAL	(M)
R2595	ERJ3GEYJ104V	RESISTENCIA CHIP PELÖCULA	(M)
R2596	ERJ3GEYJ122V	RESISTENCIA CHIP PELÖCULA	(M)
R2597	D0GB224JA008	CHIP RESISTENCIA	(M)
R2598	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R2599	ERJ3GEYJ124V	RESISTENCIA CHIP PELÖCULA	(M)
R2600	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R2601	ERJ3GEYJ682V	RESISTENCIA CHIP PELÖCULA	(M)
R2602	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R2603	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R2604	D0GB333JA008	CHIP RESISTENCIA	(M)
R2605	D0GB332JA008	CHIP RESISTENCIA	(M)
R2606	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R2607	ERJ3GEYJ392V	RESISTENCIA CHIP PELÖCULA	(M)
R2608	D0GB273JA008	CHIP RESISTENCIA	(M)
R2609	D0GB224JA008	CHIP RESISTENCIA	(M)
R2610	ERJ3GEYJ272V	RESISTENCIA CHIP PELÖCULA	(M)
R2611	ERJ3GEYJ124V	RESISTENCIA CHIP PELÖCULA	(M)
R2612	ERJ3GEYJ822V	RESISTENCIA CHIP PELÖCULA	(M)
R2613	ERJ3GEYJ393V	RESISTENCIA CHIP PELÖCULA	(M)
R2614	ERJ3GEYJ393V	RESISTENCIA CHIP PELÖCULA	(M)
R2615	ERJ3GEYJ682V	RESISTENCIA CHIP PELÖCULA	(M)
R2616	ERJ3GEYJ563V	RESISTENCIA CHIP PELÖCULA	(M)
R2618	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)

R2619	ERJ3GEYJ563V	RESISTENCIA CHIP PELÖCULA	(M)
R2620	ERJ3GEYJ563V	RESISTENCIA CHIP PELÖCULA	(M)
R2621	ERJ3GEYJ223V	RESISTENCIA CHIP PELÖCULA	(M)
R2622	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R2623	D0GB153JA008	CHIP RESISTENCIA	(M)
R2624	ERJ3GEYJ101V	RESISTENCIA CHIP PELÖCULA	(M)
R2626	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2627	D0GB471JA041	RESISTENCIA	(M)
R2628	ERJ3GEYJ820V	RESISTENCIA CHIP PELÖCULA	(M)
R2629	D0GB273JA008	CHIP RESISTENCIA	(M)
R2630	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R2631	ERJ3GEYJ121V	RESISTENCIA CHIP	(M)
R2632	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R2633	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2634	D0GB471JA041	RESISTENCIA	(M)
R2635	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2636	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2637	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2638	D0GB332JA008	CHIP RESISTENCIA	(M)
R2641	ERJ3GEYJ682V	RESISTENCIA CHIP PELÖCULA	(M)
R2642	ERJ3GEYJ682V	RESISTENCIA CHIP PELÖCULA	(M)
R2643	ERJ3GEYJ223V	RESISTENCIA CHIP PELÖCULA	(M)
R2644	ERJ3GEYJ121V	RESISTENCIA CHIP	(M)
R2645	ERJ3GEYJ562V	RESISTENCIA CHIP PELÖCULA	(M)
R2646	ERJ3GEYJ562V	RESISTENCIA CHIP PELÖCULA	(M)
R2651	ERJ3GEYJ820V	RESISTENCIA CHIP PELÖCULA	(M)
R2652	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2658	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2661	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R2662	D0GB472JA041	RESISTENCIA	(M)
R2667	ERJ3GEYJ223V	RESISTENCIA CHIP PELÖCULA	(M)
R2670	ERJ3GEYJ223V	RESISTENCIA CHIP PELÖCULA	(M)
R2672	ERJ3GEYJ101V	RESISTENCIA CHIP PELÖCULA	(M)
R2673	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2675	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R2678	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R2683	ERJ3GEYJ104V	RESISTENCIA CHIP PELÖCULA	(M)
R2684	D0GB104JA008	CHIP RESISTENCIA	(M)
R2685	ERJ3GEYJ104V	RESISTENCIA CHIP PELÖCULA	(M)
R2691	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2692	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R2693	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R2702	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2708	ERJ3GEYJ101V	RESISTENCIA CHIP PELÖCULA	(M)
R2713	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2723	ERJ3GEYJ223V	RESISTENCIA CHIP PELÖCULA	(M)
R2726	ERJ3GEYJ101V	RESISTENCIA CHIP PELÖCULA	(M)
R2728	ERJ3GEYJ223V	RESISTENCIA CHIP PELÖCULA	(M)
R2729	ERJ3GEYJ223V	RESISTENCIA CHIP PELÖCULA	(M)
R2730	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2731	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2732	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2733	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2734	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2735	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R2736	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2737	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2738	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2739	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2740	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2741	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2742	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2743	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2744	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2745	ERJ3GEYJ223V	RESISTENCIA CHIP PELÖCULA	(M)
R2746	D0GB472JA041	RESISTENCIA	(M)
R2747	D0GB472JA041	RESISTENCIA	(M)
R2748	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R2749	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2750	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2751	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2752	ERJ3GEYJ101V	RESISTENCIA CHIP PELÖCULA	(M)
R2753	ERJ3GEYJ101V	RESISTENCIA CHIP PELÖCULA	(M)
R2754	ERJ3GEYJ101V	RESISTENCIA CHIP PELÖCULA	(M)
R2755	ERJ3GEYJ101V	RESISTENCIA CHIP PELÖCULA	(M)
R2756	ERJ3GEYJ101V	RESISTENCIA CHIP PELÖCULA	(M)

R2758	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2759	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2760	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2761	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2762	ERJ3GEYJ223V	RESISTENCIA CHIP PELÖCULA	(M)
R2774	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2775	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2776	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2777	ERJ3GEYJ101V	RESISTENCIA CHIP PELÖCULA	(M)
R2778	ERJ3GEYJ101V	RESISTENCIA CHIP PELÖCULA	(M)
R2779	ERJ3GEYJ101V	RESISTENCIA CHIP PELÖCULA	(M)
R2780	ERJ3GEYJ101V	RESISTENCIA CHIP PELÖCULA	(M)
R2781	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2782	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2783	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2784	ERJ3GEYJ101V	RESISTENCIA CHIP PELÖCULA	(M)
R2785	ERJ3GEYJ101V	RESISTENCIA CHIP PELÖCULA	(M)
R2786	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2788	ERJ3GEYJ104V	RESISTENCIA CHIP PELÖCULA	(M)
R2789	ERJ3GEYJ101V	RESISTENCIA CHIP PELÖCULA	(M)
R2790	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2791	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2792	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2793	ERJ3GEYJ101V	RESISTENCIA CHIP PELÖCULA	(M)
R2794	ERJ3GEYJ101V	RESISTENCIA CHIP PELÖCULA	(M)
R2796	ERJ3GEYJ101V	RESISTENCIA CHIP PELÖCULA	(M)
R2797	ERJ3GEYJ101V	RESISTENCIA CHIP PELÖCULA	(M)
R2798	ERJ3GEYJ101V	RESISTENCIA CHIP PELÖCULA	(M)
R2803	ERJ3GEYJ104V	RESISTENCIA CHIP PELÖCULA	(M)
R2807	ERJ3GEYJ104V	RESISTENCIA CHIP PELÖCULA	(M)
R2810	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R2814	D0GB471JA041	RESISTENCIA	(M)
R2816	ERJ3GEYJ750V	CHIP RESISTOR	(M)
R2817	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2818	D0GB821JA008	CHIP RESISTENCIA	(M)
R2820	D0GB222JA041	RESISTENCIA	(M)
R2822	ERJ3GEYJ750V	CHIP RESISTOR	(M)
R2823	ERJ3GEYJ750V	CHIP RESISTOR	(M)
R2824	ERJ3GEYJ750V	CHIP RESISTOR	(M)
R2825	ERJ3GEYJ750V	CHIP RESISTOR	(M)
R2826	ERJ3GEYJ750V	CHIP RESISTOR	(M)
R2827	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2828	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2829	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2830	ERJ3GEYJ104V	RESISTENCIA CHIP PELÖCULA	(M)
R2831	D0GB104JA008	CHIP RESISTENCIA	(M)
R2832	ERJ3GEYJ104V	RESISTENCIA CHIP PELÖCULA	(M)
R2834	ERJ3GEYJ104V	RESISTENCIA CHIP PELÖCULA	(M)
R2838	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2839	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2840	D0GB221JA041	RESISTENCIA	(M)
R2841	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2842	D0GB332JA008	CHIP RESISTENCIA	(M)
R2846	ERJ3GEYJ563V	RESISTENCIA CHIP PELÖCULA	(M)
R2847	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R2848	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2849	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2850	D0GB472JA041	RESISTENCIA	(M)
R2851	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2852	ERJ3GEYJ563V	RESISTENCIA CHIP PELÖCULA	(M)
R2853	ERJ3GEYJ563V	RESISTENCIA CHIP PELÖCULA	(M)
R2854	ERJ3GEYJ563V	RESISTENCIA CHIP PELÖCULA	(M)
R2855	ERJ3GEYJ563V	RESISTENCIA CHIP PELÖCULA	(M)
R2856	ERJ3GEYJ563V	RESISTENCIA CHIP PELÖCULA	(M)
R2857	ERJ3GEYJ563V	RESISTENCIA CHIP PELÖCULA	(M)
R2859	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2860	D0GB222JA041	RESISTENCIA	(M)
R2862	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2863	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2864	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2881	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2899	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2910	D0GB472JA041	RESISTENCIA	(M)
R2911	D0GB473JA041	RESISTENCIA	(M)
R2912	D0GB473JA041	RESISTENCIA	(M)
R2913	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)

R2914	D0GB472JA041	RESISTENCIA	(M)
R2916	ERJ3GEYJ681V	RESISTENCIA	(M)
R2917	ERJ3GEYJ106V	CHIP RESISTOR	(M)
R2918	ERJ3GEYJ331V	RESISTENCIA CHIP PELÖCULA	(M)
R2920	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R2921	D0GB332JA008	CHIP RESISTENCIA	(M)
R2922	ERJ3GEYJ223V	RESISTENCIA CHIP PELÖCULA	(M)
R2923	D0GB222JA041	RESISTENCIA	(M)
R2924	ERJ3GEYJ104V	RESISTENCIA CHIP PELÖCULA	(M)
R2926	ERJ3GEYJ101V	RESISTENCIA CHIP PELÖCULA	(M)
R2935	D0GB153JA008	CHIP RESISTENCIA	(M)
R2938	ERJ3GEYJ392V	RESISTENCIA CHIP PELÖCULA	(M)
R2939	ERJ3GEYJ562V	RESISTENCIA CHIP PELÖCULA	(M)
R2940	D0GB123JA008	CHIP RESISTENCIA	(M)
R2941	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R2942	D0GB472JA041	RESISTENCIA	(M)
R2943	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R2944	D0GB153JA008	CHIP RESISTENCIA	(M)
R2945	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2946	D0GB123JA008	CHIP RESISTENCIA	(M)
R2947	ERJ3GEYJ100V	RESISTENCIA CHIP	(M)
R2948	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2949	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R2951	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R2952	ERDS1FVJ680T	RESISTENCIA	(M)
R2955	D0GB221JA041	RESISTENCIA	(M)
R2956	D0GB221JA041	RESISTENCIA	(M)
R2957	ERJ3GEYJ681V	RESISTENCIA	(M)
R2958	D0GB2R2JA008	CHIP RESISTENCIA	(M)
R2959	D0GB2R2JA008	CHIP RESISTENCIA	(M)
R2969	ERDS1FVJ680T	RESISTENCIA	(M)
R2978	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2979	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2980	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2981	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2982	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2983	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2984	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2985	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2986	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2987	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2988	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R2990	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R2998	ERJ3GEY0R00V	CHIP JUMPER	(M)
R2999	ERJ3GEY0R00V	CHIP JUMPER	(M)
R3	ERDS2TJ221T	RESISTENCIA	(M)
R3601	ERJ3GEY0R00V	CHIP JUMPER	(M)
R3602	D0GB472JA041	RESISTENCIA	(M)
R3603	ERJ3GEYJ271V	RESISTENCIA CHIP PELÖCULA	(M)
R3604	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R3605	D0GB471JA041	RESISTENCIA	(M)
R3606	D0GB474JA041	RESISTENCIA	(M)
R3607	ERJ3GEYJ331V	RESISTENCIA CHIP PELÖCULA	(M)
R3610	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R3611	ERJ3GEYJ391V	RESISTENCIA CHIP PELÖCULA	(M)
R3612	ERJ3GEYJ104V	RESISTENCIA CHIP PELÖCULA	(M)
R3613	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R3614	ERJ3GEYJ562V	RESISTENCIA CHIP PELÖCULA	(M)
R3615	ERJ3GEYJ561V	RESISTENCIA CHIP PELÖCULA	(M)
R3616	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R3617	D0GB473JA041	RESISTENCIA	(M)
R3618	D0GB332JA008	CHIP RESISTENCIA	(M)
R3619	D0GB332JA008	CHIP RESISTENCIA	(M)
R3620	D0GB473JA041	RESISTENCIA	(M)
R3622	ERJ3GEYJ272V	RESISTENCIA CHIP PELÖCULA	(M)
R3623	ERJ3GEYJ683V	RESISTENCIA CHIP PELÖCULA	(M)
R3624	D0GB330JA008	CHIP RESISTENCIA	(M)
R3625	D0GB471JA041	RESISTENCIA	(M)
R3626	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R3627	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R3628	ERJ3GEYJ563V	RESISTENCIA CHIP PELÖCULA	(M)
R3629	ERJ3GEYJ563V	RESISTENCIA CHIP PELÖCULA	(M)
R3630	D0GB332JA008	CHIP RESISTENCIA	(M)
R3631	D0GB332JA008	CHIP RESISTENCIA	(M)
R3633	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R3634	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)

R3637	ERJ3GEY0R00V	CHIP JUMPER	(M)
R3638	ERJ3GEY0R00V	CHIP JUMPER	(M)
R3639	ERJ3GEY0R00V	CHIP JUMPER	(M)
R3640	ERJ3GEY0R00V	CHIP JUMPER	(M)
R3641	ERJ3GEY0R00V	CHIP JUMPER	(M)
R3642	ERJ3GEY0R00V	CHIP JUMPER	(M)
R3644	ERJ3GEY0R00V	CHIP JUMPER	(M)
R4	ERDS2TJ104T	RESISTENCIA	(M)
R5	ERDS2TJ564T	RESISTENCIA	(M)
R5100	D0GB153JA008	CHIP RESISTENCIA	(M)
R5101	D0GB472JA041	RESISTENCIA	(M)
R5102	ERJ3GEYJ563V	RESISTENCIA CHIP PELÖCULA	(M)
R5103	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R5104	D0GB184JA008	CHIP RESISTENCIA	(M)
R5105	ERDS1FVJ100T	RESISTENCIA RADIAL	(M)
R5107	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R5200	D0GB153JA008	CHIP RESISTENCIA	(M)
R5201	D0GB472JA041	RESISTENCIA	(M)
R5202	ERJ3GEYJ563V	RESISTENCIA CHIP PELÖCULA	(M)
R5203	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R5204	D0GB184JA008	CHIP RESISTENCIA	(M)
R5205	ERDS1FVJ100T	RESISTENCIA RADIAL	(M)
R5207	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R5300	D0GB153JA008	CHIP RESISTENCIA	(M)
R5301	ERJ3GEYJ272V	RESISTENCIA CHIP PELÖCULA	(M)
R5302	ERJ3GEYJ563V	RESISTENCIA CHIP PELÖCULA	(M)
R5303	ERDS1FVJ100T	RESISTENCIA RADIAL	(M)
R5400	D0GB153JA008	CHIP RESISTENCIA	(M)
R5401	ERJ3GEYJ272V	RESISTENCIA CHIP PELÖCULA	(M)
R5402	ERJ3GEYJ563V	RESISTENCIA CHIP PELÖCULA	(M)
R5403	ERDS1FVJ100T	RESISTENCIA RADIAL	(M)
R5500	D0GB153JA008	CHIP RESISTENCIA	(M)
R5501	ERJ3GEYJ392V	RESISTENCIA CHIP PELÖCULA	(M)
R5502	ERJ3GEYJ563V	RESISTENCIA CHIP PELÖCULA	(M)
R5503	ERDS1FVJ100T	RESISTENCIA RADIAL	(M)
R5504	ERJ3GEYJ104V	RESISTENCIA CHIP PELÖCULA	(M)
R5505	ERJ3GEYJ223V	RESISTENCIA CHIP PELÖCULA	(M)
R5507	ERJ3GEY0R00V	CHIP JUMPER	(M)
R5601	D0GB153JA008	CHIP RESISTENCIA	(M)
R5602	ERJ3GEYJ563V	RESISTENCIA CHIP PELÖCULA	(M)
R5603	ERJ3GEYJ223V	RESISTENCIA CHIP PELÖCULA	(M)
R5604	D0GB184JA008	CHIP RESISTENCIA	(M)
R5605	ERDS1FVJ100T	RESISTENCIA RADIAL	(M)
R5606	ERDS1FVJ100T	RESISTENCIA RADIAL	(M)
R5610	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R5701	D0GB153JA008	CHIP RESISTENCIA	(M)
R5702	ERJ3GEYJ563V	RESISTENCIA CHIP PELÖCULA	(M)
R5703	ERJ3GEYJ223V	RESISTENCIA CHIP PELÖCULA	(M)
R5704	D0GB184JA008	CHIP RESISTENCIA	(M)
R5705	ERDS1FVJ100T	RESISTENCIA RADIAL	(M)
R5809	ERDS1FVJ331T	RESISTENCIA RADIAL	(M)
R5810	ERJ3GEYJ272V	RESISTENCIA CHIP PELÖCULA	(M)
R5811	D0GB471JA041	RESISTENCIA	(M)
R5812	ERJ3GEYJ272V	RESISTENCIA CHIP PELÖCULA	(M)
R5813	D0GB332JA008	CHIP RESISTENCIA	(M)
R5814	D0GB332JA008	CHIP RESISTENCIA	(M)
R5815	ERJ3GEYJ104V	RESISTENCIA CHIP PELÖCULA	(M)
R5816	ERJ3GEYJ104V	RESISTENCIA CHIP PELÖCULA	(M)
R5817	ERJ3GEYJ223V	RESISTENCIA CHIP PELÖCULA	(M)
R5819	ERJ3GEYJ334V	RESISTENCIA CHIP	(M)
R5820	ERDS1FVJ331T	RESISTENCIA RADIAL	(M)
R5821	ERDS1FVJ122T	RESISTENCIA CHIP PELICULA	(M)
R5822	ERDS1FVJ331T	RESISTENCIA RADIAL	(M)
R5823	D0GB471JA041	RESISTENCIA	(M)
R5824	ERDS1FVJ2R2T	RESISTENCIA RADIAL	(M)
R5825	ERDS1FVJ2R2T	RESISTENCIA RADIAL	(M)
R5826	ERDS1FVJ2R2T	RESISTENCIA RADIAL	(M)
R5827	ERDS1FVJ2R2T	RESISTENCIA RADIAL	(M)
R5828	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R5829	ERDS1FVJ331T	RESISTENCIA RADIAL	(M)
R5830	ERDS1FVJ122T	RESISTENCIA CHIP PELICULA	(M)
R5831	D0GB182JA008	CHIP RESISTENCIA	(M)
R5832	ERJ3GEYJ151V	RESISTENCIA CHIP PELÖCULA	(M)
R5835	D0GB152JA008	CHIP RESISTENCIA	(M)
R5847	ERDS1FVJ4R7T	RESISTENCIA	(M)
R5849	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)

R5866	ERJ3GEYJ683V	RESISTENCIA CHIP PELÖCULA	(M)
R5889	D0GB473JA041	RESISTENCIA	(M)
R5890	D0GB473JA041	RESISTENCIA	(M)
R5891	ERJ3GEYJ151V	RESISTENCIA CHIP PELÖCULA	(M)
R5892	ERJ3GEYJ151V	RESISTENCIA CHIP PELÖCULA	(M)
R5898	ERJ3GEYJ683V	RESISTENCIA CHIP PELÖCULA	(M)
R5902	ERJ3GEYJ101V	RESISTENCIA CHIP PELÖCULA	(M)
R5903	ERJ3GEY0R00V	CHIP JUMPER	(M)
R5906	ERDS1FVJ270T	RESISTENCIA	(M)
R5991	ERJ3GEY0R00V	CHIP JUMPER	(M)
R6	ERDS2TJ391T	RESISTENCIA CARBON	(M)
R6800	ERJ3GEYJ270V	CHIP RESISTOR	(M)
R6801	ERJ3GEYJ270V	CHIP RESISTOR	(M)
R6802	ERJ3GEYJ270V	CHIP RESISTOR	(M)
R6803	ERJ3GEYJ270V	CHIP RESISTOR	(M)
R6804	D0GB472JA041	RESISTENCIA	(M)
R6805	ERJ3GEYJ100V	RESISTENCIA CHIP	(M)
R6806	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R6807	ERJ3GEYJ270V	CHIP RESISTOR	(M)
R6808	ERJ3GEYJ270V	CHIP RESISTOR	(M)
R6809	ERJ3GEYJ270V	CHIP RESISTOR	(M)
R6810	ERJ3GEYJ270V	CHIP RESISTOR	(M)
R6811	D0GB472JA041	RESISTENCIA	(M)
R6812	ERJ3GEYJ100V	RESISTENCIA CHIP	(M)
R6813	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R6814	ERJ3GEY0R00V	CHIP JUMPER	(M)
R6815	ERJ3GEYJ563V	RESISTENCIA CHIP PELÖCULA	(M)
R6816	ERJ3GEYJ563V	RESISTENCIA CHIP PELÖCULA	(M)
R6819	ERJ3GEY0R00V	CHIP JUMPER	(M)
R6820	D0GB274JA008	CHIP RESISTENCIA	(M)
R6821	D0GB274JA008	CHIP RESISTENCIA	(M)
R6822	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R6823	ERJ3GEYJ2R7V	RESISTENCIA CHIP PELÖCULA	(M)
R6824	ERJ3GEYJ223V	RESISTENCIA CHIP PELÖCULA	(M)
R6825	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R6826	ERJ3GEYJ2R7V	RESISTENCIA CHIP PELÖCULA	(M)
R6827	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R6828	ERJ3GEYJ223V	RESISTENCIA CHIP PELÖCULA	(M)
R6829	ERJ3GEYJ272V	RESISTENCIA CHIP PELÖCULA	(M)
R6830	ERJ3GEY0R00V	CHIP JUMPER	(M)
R6837	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R6854	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R6855	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R6856	ERJ3GEYJ122V	RESISTENCIA CHIP PELÖCULA	(M)
R6857	D0GB182JA008	CHIP RESISTENCIA	(M)
R6858	D0GB222JA041	RESISTENCIA	(M)
R6859	ERJ3GEYJ272V	RESISTENCIA CHIP PELÖCULA	(M)
R6860	D0GB472JA041	RESISTENCIA	(M)
R6861	ERJ3GEYJ682V	RESISTENCIA CHIP PELÖCULA	(M)
R6862	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R6864	D0GB473JA041	RESISTENCIA	(M)
R6865	D0GB473JA041	RESISTENCIA	(M)
R6869	ERJ3GEYJ392V	RESISTENCIA CHIP PELÖCULA	(M)
R6885	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R6886	D0GB222JA041	RESISTENCIA	(M)
R6887	D0GB474JA041	RESISTENCIA	(M)
R6888	D0GB472JA041	RESISTENCIA	(M)
R6889	ERJ3GEYJ183V	RESISTENCIA CHIP PELÖCULA	(M)
R6890	ERJ3GEYJ681V	RESISTENCIA	(M)
R6891	ERJ3GEYJ681V	RESISTENCIA	(M)
R6892	D0GB561JA007	RESISTOR CHIP PELICULA	(M)
R6892	ERJ3GEYJ561V	RESISTENCIA CHIP PELÖCULA	(M)
R6893	D0GB181JA008	CHIP RESISTENCIA	(M)
R6894	D0GB181JA008	CHIP RESISTENCIA	(M)
R6937	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R6938	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R6939	ERJ3GEYJ122V	RESISTENCIA CHIP PELÖCULA	(M)
R6940	D0GB182JA008	CHIP RESISTENCIA	(M)
R6941	D0GB222JA041	RESISTENCIA	(M)
R6942	ERJ3GEYJ272V	RESISTENCIA CHIP PELÖCULA	(M)
R6943	D0GB472JA041	RESISTENCIA	(M)
R6944	ERJ3GEYJ682V	RESISTENCIA CHIP PELÖCULA	(M)
R6950	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R6954	D0GB474JA041	RESISTENCIA	(M)
R6956	D0GB472JA041	RESISTENCIA	(M)
R6957	D0GB474JA041	RESISTENCIA	(M)

R6959	ERD2FCVG470T	RESISTENCIA	(M)
R6960	ERD2FCVG470T	RESISTENCIA	(M)
R6961	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R6962	ERJ3GEYJ103V	RESISTENCIA CHIP PELÖCULA	(M)
R6963	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R6964	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R6965	ERJ3GEYJ122V	RESISTENCIA CHIP PELÖCULA	(M)
R6966	D0GB182JA008	CHIP RESISTENCIA	(M)
R6967	D0GB222JA041	RESISTENCIA	(M)
R6968	ERJ3GEYJ272V	RESISTENCIA CHIP PELÖCULA	(M)
R6969	D0GB472JA041	RESISTENCIA	(M)
R6970	ERJ3GEYJ682V	RESISTENCIA CHIP PELÖCULA	(M)
R6981	ERJ3GEYJ334V	RESISTENCIA CHIP	(M)
R6982	ERJ3GEYJ680V	RESISTENCIA CHIP PELÖCULA	(M)
R6983	ERJ3GEYJ822V	RESISTENCIA CHIP PELÖCULA	(M)
R6987	ERJ3GEYJ334V	RESISTENCIA CHIP	(M)
R6988	ERJ3GEYJ271V	RESISTENCIA CHIP PELÖCULA	(M)
R6989	ERJ3GEYJ271V	RESISTENCIA CHIP PELÖCULA	(M)
R6990	ERJ3GEYJ271V	RESISTENCIA CHIP PELÖCULA	(M)
R6991	ERJ3GEYJ331V	RESISTENCIA CHIP PELÖCULA	(M)
R6992	ERJ3GEYJ101V	RESISTENCIA CHIP PELÖCULA	(M)
R6993	D0GB273JA008	CHIP RESISTENCIA	(M)
R6994	D0GB472JA041	RESISTENCIA	(M)
R6995	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R6995	ERJ3GEYJ102V	RESISTENCIA CHIP PELÖCULA	(M)
R6996	ERJ3GEYJ270V	CHIP RESISTOR	(M)
R6997	ERJ3GEY0R00V	CHIP JUMPER	(M)
R7	ERDS2TJ272T	RESISTENCIA CARBON	(M)
R8	ERDS2TJ684T	RESISTENCIA CARBON	(M)
R9	ERDS2TJ391T	RESISTENCIA CARBON	(M)
R9500	ERDS1FVJ100T	RESISTENCIA RADIAL	(M)
R9501	ERDS1FVJ100T	RESISTENCIA RADIAL	(M)
R9502	ERDS1FVJ100T	RESISTENCIA RADIAL	(M)
R9503	ERDS2TJ824T	RESISTENCIA CARBON	(M)
R9503	ERJ3GEY0R00V	CHIP JUMPER	(M)
R9504	ERDS2TJ152T	R.CARBON	(M)
R9505	ERDS2TJ122T	R.CARBON	(M)
R9507	ERDS2TJ1R0T	RESISTENCIA	(M)
R9508	ERDS2TJ1R0T	RESISTENCIA	(M)
R9509	ERDS2TJ1R0T	RESISTENCIA	(M)
R9510	ERDS2TJ1R0T	RESISTENCIA	(M)
R9511	ERDS2TJ103T	RESISTENCIA	(M)
R9512	ERDS2TJ392T	RESISTENCIA CARBON	(M)
R9513	ERDS2TJ471T	R.CARBON	(M)
R9514	ERDS2TJ102T	R.CARBON	(M)
R9515	ERDS2TJ102T	R.CARBON	(M)
R9516	ERDS2TJ102T	R.CARBON	(M)
R9517	ERDS2TJ223T	RESISTENCIA	(M)
R9518	ERDS2TJ332T	RESISTENCIA CARBON	(M)
R9519	ERDS2TJ151T	RESISTENCIA	(M)
R9520	ERDS2TJ472T	RESISTENCIA CARBON	(M)
R9521	ERD2FCVJ4R7T	RESISTENCIA CARBON	(M)
R9522	ERDS2TJ1R0T	RESISTENCIA	(M)
R9525	ERDS1FVJ100T	RESISTENCIA RADIAL	(M)
R9529	ERJ3GEY0R00V	CHIP JUMPER	(M)
R9530	ERJ3GEY0R00V	CHIP JUMPER	(M)
R9531	ERJ3GEY0R00V	CHIP JUMPER	(M)
R9532	ERJ3GEY0R00V	CHIP JUMPER	(M)
R9533	ERJ3GEY0R00V	CHIP JUMPER	(M)
R9534	ERJ3GEY0R00V	CHIP JUMPER	(M)
R9535	ERJ3GEY0R00V	CHIP JUMPER	(M)
R9536	ERJ3GEY0R00V	CHIP JUMPER	(M)
R9600	ERJ3GEYJ392V	RESISTENCIA CHIP PELÖCULA	(M)
R9610	ERJ3GEY0R00V	CHIP JUMPER	(M)
R9611	ERJ3GEY0R00V	CHIP JUMPER	(M)
R9612	ERJ3GEY0R00V	CHIP JUMPER	(M)
R9613	ERJ3GEY0R00V	CHIP JUMPER	(M)
R9614	ERJ3GEY0R00V	CHIP JUMPER	(M)
R9615	ERJ3GEY0R00V	CHIP JUMPER	(M)
R9700	ERJ3GEYJ392V	RESISTENCIA CHIP PELÖCULA	(M)
R9836	ERD2FCVJ4R7T	RESISTENCIA CARBON	(M)

RELAY

REF No	PART NUMBER	DESCRIPTION	REMARKS
RL9500	K6B1AEA00015	RELEVADOR	(M)

SWITCHES

REF No	PART NUMBER	DESCRIPTION	REMARKS
S6800	EVQ21405R	TACT SWITCH	(M)
S6801	EVQ21405R	TACT SWITCH	(M)
S6802	EVQ21405R	TACT SWITCH	(M)
S6803	EVQ21405R	TACT SWITCH	(M)
S6804	EVQ21405R	TACT SWITCH	(M)
S6805	EVQ21405R	TACT SWITCH	(M)
S6806	EVQ21405R	TACT SWITCH	(M)
S6807	EVQ21405R	TACT SWITCH	(M)
S6808	EVQ21405R	TACT SWITCH	(M)
S6809	EVQ21405R	TACT SWITCH	(M)
S6810	EVQ21405R	TACT SWITCH	(M)
S6811	EVQ21405R	TACT SWITCH	(M)
S6812	EVQ21405R	TACT SWITCH	(M)
S6813	EVQ21405R	TACT SWITCH	(M)
S6814	EVQ21405R	TACT SWITCH	(M)
S6815	EVQ21405R	TACT SWITCH	(M)
S6816	EVQ21405R	TACT SWITCH	(M)
S6817	EVQ21405R	TACT SWITCH	(M)
S6818	EVQ21405R	TACT SWITCH	(M)
S6819	EVQ21405R	TACT SWITCH	(M)
S6820	EVQ21405R	TACT SWITCH	(M)
S6821	EVQ21405R	TACT SWITCH	(M)
S6822	EVQ21405R	TACT SWITCH	(M)
S6823	EVQ21405R	TACT SWITCH	(M)
S6824	EVQ21405R	TACT SWITCH	(M)
S6825	EVQ21405R	TACT SWITCH	(M)
S6826	EVQ21405R	TACT SWITCH	(M)
S6827	EVQ21405R	TACT SWITCH	(M)

TRANSFORMERS

REF No	PART NUMBER	DESCRIPTION	REMARKS
T9501	G4C2AAJ00005	TRANSF. BACKUP TM35/25	(M)

VARIABLE RESISTORS

REF No	PART NUMBER	DESCRIPTION	REMARKS
VR6800	EVEHE1F3512M	12MM 6S ENCODER	(M)

WIRES

REF No	PART NUMBER	DESCRIPTION	REMARKS
W1	REVM0117	CABLE ROJO	(M)
W2	REVM0118	CABLE NEGRO	(M)
W2086	Z-W6NL	ALAMBRE JUMPER	(M)
W2087	ERJ3GEY0R00V	CHIP JUMPER	(M)
W2088	Z-W6NL	ALAMBRE JUMPER	(M)
W2089	Z-W6NL	ALAMBRE JUMPER	(M)
W2090	ERJ3GEY0R00V	CHIP JUMPER	(M)
W2091	ERJ3GEY0R00V	CHIP JUMPER	(M)
W2092	Z-W6NL	ALAMBRE JUMPER	(M)
W2093	Z-W6NL	ALAMBRE JUMPER	(M)
W2094	ERJ3GEY0R00V	CHIP JUMPER	(M)
W2095	ERJ3GEY0R00V	CHIP JUMPER	(M)
W2096	ERJ3GEY0R00V	CHIP JUMPER	(M)
W2097	Z-W6NL	ALAMBRE JUMPER	(M)
W2098	Z-W6NL	ALAMBRE JUMPER	(M)
W2099	ERJ3GEY0R00V	CHIP JUMPER	(M)
W2100	Z-W6NL	ALAMBRE JUMPER	(M)
W2101	ERJ3GEY0R00V	CHIP JUMPER	(M)
W2102	Z-W6NL	ALAMBRE JUMPER	(M)
W2103	ERJ3GEY0R00V	CHIP JUMPER	(M)
W2104	ERJ3GEY0R00V	CHIP JUMPER	(M)
W2105	Z-W6NL	ALAMBRE JUMPER	(M)
W2106	Z-W6NL	ALAMBRE JUMPER	(M)
W2107	Z-W6NL	ALAMBRE JUMPER	(M)
W2108	Z-W6NL	ALAMBRE JUMPER	(M)
W2109	Z-W6NL	ALAMBRE JUMPER	(M)
W2110	Z-W6NL	ALAMBRE JUMPER	(M)
W2111	Z-W6NL	ALAMBRE JUMPER	(M)
W2112	Z-W6NL	ALAMBRE JUMPER	(M)
W2113	Z-W6NL	ALAMBRE JUMPER	(M)
W2114	Z-W6NL	ALAMBRE JUMPER	(M)

W2115	Z-W6NL	ALAMBRE JUMPER	(M)
W2116	Z-W6NL	ALAMBRE JUMPER	(M)
W2117	Z-W6NL	ALAMBRE JUMPER	(M)
W2118	Z-W6NL	ALAMBRE JUMPER	(M)
W2119	Z-W6NL	ALAMBRE JUMPER	(M)
W2120	Z-W6NL	ALAMBRE JUMPER	(M)
W2120	Z-W6NL	ALAMBRE JUMPER	(M)
W2121	Z-W6NL	ALAMBRE JUMPER	(M)
W2122	Z-W6NL	ALAMBRE JUMPER	(M)
W2123	Z-W6NL	ALAMBRE JUMPER	(M)
W2124	Z-W6NL	ALAMBRE JUMPER	(M)
W2125	Z-W6NL	ALAMBRE JUMPER	(M)
W2125	ERJ3GEY0R00V	CHIP JUMPER	(M)
W2126	ERJ3GEY0R00V	CHIP JUMPER	(M)
W2127	ERJ3GEY0R00V	CHIP JUMPER	(M)
W2128	ERJ3GEY0R00V	CHIP JUMPER	(M)
W2129	Z-W6NL	ALAMBRE JUMPER	(M)
W2130	ERJ3GEY0R00V	CHIP JUMPER	(M)
W2131	ERJ3GEY0R00V	CHIP JUMPER	(M)
W2132	ERJ3GEY0R00V	CHIP JUMPER	(M)
W2133	ERJ3GEY0R00V	CHIP JUMPER	(M)
W2134	Z-W6NL	ALAMBRE JUMPER	(M)
W2135	Z-W6NL	ALAMBRE JUMPER	(M)
W2136	Z-W6NL	ALAMBRE JUMPER	(M)
W2137	Z-W6NL	ALAMBRE JUMPER	(M)
W2341	Z-W6NL	ALAMBRE JUMPER	(M)
W2410	Z-W6NL	ALAMBRE JUMPER	(M)
W2411	Z-W6NL	ALAMBRE JUMPER	(M)
W2412	Z-W6NL	ALAMBRE JUMPER	(M)
W2413	Z-W6NL	ALAMBRE JUMPER	(M)
W2414	Z-W6NL	ALAMBRE JUMPER	(M)
W2415	Z-W6NL	ALAMBRE JUMPER	(M)
W2416	Z-W6NL	ALAMBRE JUMPER	(M)
W2417	Z-W6NL	ALAMBRE JUMPER	(M)
W2418	Z-W6NL	ALAMBRE JUMPER	(M)
W2419	Z-W6NL	ALAMBRE JUMPER	(M)
W2420	Z-W6NL	ALAMBRE JUMPER	(M)
W2421	Z-W6NL	ALAMBRE JUMPER	(M)
W2422	Z-W6NL	ALAMBRE JUMPER	(M)
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W2425	Z-W6NL	ALAMBRE JUMPER	(M)
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W2446	Z-W6NL	ALAMBRE JUMPER	(M)
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W2448	Z-W6NL	ALAMBRE JUMPER	(M)
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W2601	Z-W6NL	ALAMBRE JUMPER	(M)
W2602	Z-W6NL	ALAMBRE JUMPER	(M)
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W2614	Z-W6NL	ALAMBRE JUMPER	(M)
W2616	Z-W6NL	ALAMBRE JUMPER	(M)
W2618	Z-W6NL	ALAMBRE JUMPER	(M)
W2619	Z-W6NL	ALAMBRE JUMPER	(M)
W2620	Z-W6NL	ALAMBRE JUMPER	(M)
W2621	Z-W6NL	ALAMBRE JUMPER	(M)
W2622	Z-W6NL	ALAMBRE JUMPER	(M)
W2626	Z-W6NL	ALAMBRE JUMPER	(M)
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W2703	Z-W6NL	ALAMBRE JUMPER	(M)
W2704	Z-W6NL	ALAMBRE JUMPER	(M)
W2705	Z-W6NL	ALAMBRE JUMPER	(M)
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W2707	Z-W6NL	ALAMBRE JUMPER	(M)
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W2715	Z-W6NL	ALAMBRE JUMPER	(M)
W2716	Z-W6NL	ALAMBRE JUMPER	(M)
W2717	Z-W6NL	ALAMBRE JUMPER	(M)
W2718	Z-W6NL	ALAMBRE JUMPER	(M)
W2719	Z-W6NL	ALAMBRE JUMPER	(M)
W2720	Z-W6NL	ALAMBRE JUMPER	(M)
W2721	Z-W6NL	ALAMBRE JUMPER	(M)
W2722	Z-W6NL	ALAMBRE JUMPER	(M)
W2723	Z-W6NL	ALAMBRE JUMPER	(M)
W2724	Z-W6NL	ALAMBRE JUMPER	(M)
W2725	Z-W6NL	ALAMBRE JUMPER	(M)
W2726	Z-W6NL	ALAMBRE JUMPER	(M)
W2727	Z-W6NL	ALAMBRE JUMPER	(M)
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W2778	Z-W6NL	ALAMBRE JUMPER	(M)
W2779	Z-W6NL	ALAMBRE JUMPER	(M)
W2780	Z-W6NL	ALAMBRE JUMPER	(M)
W2781	Z-W6NL	ALAMBRE JUMPER	(M)
W2782	Z-W6NL	ALAMBRE JUMPER	(M)
W2783	Z-W6NL	ALAMBRE JUMPER	(M)
W2784	Z-W6NL	ALAMBRE JUMPER	(M)
W2785	Z-W6NL	ALAMBRE JUMPER	(M)
W2786	Z-W6NL	ALAMBRE JUMPER	(M)
W2787	Z-W6NL	ALAMBRE JUMPER	(M)
W2788	Z-W6NL	ALAMBRE JUMPER	(M)
W2789	Z-W6NL	ALAMBRE JUMPER	(M)
W2791	Z-W6NL	ALAMBRE JUMPER	(M)
W2792	Z-W6NL	ALAMBRE JUMPER	(M)
W2793	Z-W6NL	ALAMBRE JUMPER	(M)
W2794	Z-W6NL	ALAMBRE JUMPER	(M)
W2795	Z-W6NL	ALAMBRE JUMPER	(M)
W2796	Z-W6NL	ALAMBRE JUMPER	(M)
W2797	Z-W6NL	ALAMBRE JUMPER	(M)
W2798	Z-W6NL	ALAMBRE JUMPER	(M)
W2799	Z-W6NL	ALAMBRE JUMPER	(M)
W2800	Z-W6NL	ALAMBRE JUMPER	(M)
W2801	Z-W6NL	ALAMBRE JUMPER	(M)
W2802	Z-W6NL	ALAMBRE JUMPER	(M)
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W2808	Z-W6NL	ALAMBRE JUMPER	(M)
W2809	Z-W6NL	ALAMBRE JUMPER	(M)
W2810	Z-W6NL	ALAMBRE JUMPER	(M)
W2811	Z-W6NL	ALAMBRE JUMPER	(M)
W2813	Z-W6NL	ALAMBRE JUMPER	(M)
W2814	Z-W6NL	ALAMBRE JUMPER	(M)
W2815	Z-W6NL	ALAMBRE JUMPER	(M)
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W2915	Z-W6NL	ALAMBRE JUMPER	(M)
W2917	Z-W6NL	ALAMBRE JUMPER	(M)
W2919	ERJ3GEY0R00V	CHIP JUMPER	(M)
W2923	Z-W6NL	ALAMBRE JUMPER	(M)
W2924	Z-W6NL	ALAMBRE JUMPER	(M)
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W2927	Z-W6NL	ALAMBRE JUMPER	(M)
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W2974	Z-W6NL	ALAMBRE JUMPER	(M)
W2975	Z-W6NL	ALAMBRE JUMPER	(M)
W2976	Z-W6NL	ALAMBRE JUMPER	(M)
W2977	Z-W6NL	ALAMBRE JUMPER	(M)
W2978	Z-W6NL	ALAMBRE JUMPER	(M)
W2980	Z-W6NL	ALAMBRE JUMPER	(M)
W2981	Z-W6NL	ALAMBRE JUMPER	(M)
W2983	Z-W6NL	ALAMBRE JUMPER	(M)
W2984	Z-W6NL	ALAMBRE JUMPER	(M)
W2985	Z-W6NL	ALAMBRE JUMPER	(M)
W2986	Z-W6NL	ALAMBRE JUMPER	(M)
W2987	Z-W6NL	ALAMBRE JUMPER	(M)
W2988	Z-W6NL	ALAMBRE JUMPER	(M)
W2989	Z-W6NL	ALAMBRE JUMPER	(M)
W2990	Z-W6NL	ALAMBRE JUMPER	(M)
W2991	Z-W6NL	ALAMBRE JUMPER	(M)
W2994	Z-W6NL	ALAMBRE JUMPER	(M)
W2995	Z-W6NL	ALAMBRE JUMPER	(M)
W2996	Z-W6NL	ALAMBRE JUMPER	(M)
W2997	Z-W6NL	ALAMBRE JUMPER	(M)
W2999	ERJ3GEY0R00V	CHIP JUMPER	(M)
W3	REVM0115	CABLE	(M)
W3000	Z-W6NL	ALAMBRE JUMPER	(M)
W3001	Z-W6NL	ALAMBRE JUMPER	(M)
W3002	ERJ3GEY0R00V	CHIP JUMPER	(M)
W3003	ERJ3GEY0R00V	CHIP JUMPER	(M)
W3004	ERJ3GEY0R00V	CHIP JUMPER	(M)
W3005	ERJ3GEY0R00V	CHIP JUMPER	(M)
W3006	B0ACCK000005	CHIP DIODE	(M)
W3007	B0ACCK000005	CHIP DIODE	(M)
W3008	B0ACCK000005	CHIP DIODE	(M)
W3009	B0ACCK000005	CHIP DIODE	(M)
W3010	Z-W6NL	ALAMBRE JUMPER	(M)
W3011	ERJ3GEY0R00V	CHIP JUMPER	(M)
W5801	Z-W6NL	ALAMBRE JUMPER	(M)
W5801	Z-W6NL	ALAMBRE JUMPER	(M)
W5802	Z-W6NL	ALAMBRE JUMPER	(M)
W5803	Z-W6NL	ALAMBRE JUMPER	(M)
W5804	Z-W6NL	ALAMBRE JUMPER	(M)
W5805	Z-W6NL	ALAMBRE JUMPER	(M)
W5806	Z-W6NL	ALAMBRE JUMPER	(M)
W5807	Z-W6NL	ALAMBRE JUMPER	(M)
W5808	Z-W6NL	ALAMBRE JUMPER	(M)
W5809	Z-W6NL	ALAMBRE JUMPER	(M)
W5810	Z-W6NL	ALAMBRE JUMPER	(M)
W5811	Z-W6NL	ALAMBRE JUMPER	(M)
W5812	Z-W6NL	ALAMBRE JUMPER	(M)
W5813	Z-W6NL	ALAMBRE JUMPER	(M)
W5814	Z-W6NL	ALAMBRE JUMPER	(M)
W5815	Z-W6NL	ALAMBRE JUMPER	(M)
W5816	Z-W6NL	ALAMBRE JUMPER	(M)
W5817	Z-W6NL	ALAMBRE JUMPER	(M)
W5818	Z-W6NL	ALAMBRE JUMPER	(M)
W5819	Z-W6NL	ALAMBRE JUMPER	(M)
W5820	Z-W6NL	ALAMBRE JUMPER	(M)
W5821	Z-W6NL	ALAMBRE JUMPER	(M)
W5822	Z-W6NL	ALAMBRE JUMPER	(M)
W5823	Z-W6NL	ALAMBRE JUMPER	(M)
W5824	Z-W6NL	ALAMBRE JUMPER	(M)
W5825	Z-W6NL	ALAMBRE JUMPER	(M)
W5826	Z-W6NL	ALAMBRE JUMPER	(M)
W5827	Z-W6NL	ALAMBRE JUMPER	(M)
W5828	Z-W6NL	ALAMBRE JUMPER	(M)
W5829	Z-W6NL	ALAMBRE JUMPER	(M)
W5830	Z-W6NL	ALAMBRE JUMPER	(M)
W5831	Z-W6NL	ALAMBRE JUMPER	(M)
W5832	Z-W6NL	ALAMBRE JUMPER	(M)
W5833	Z-W6NL	ALAMBRE JUMPER	(M)
W5834	Z-W6NL	ALAMBRE JUMPER	(M)
W5835	Z-W6NL	ALAMBRE JUMPER	(M)
W5836	Z-W6NL	ALAMBRE JUMPER	(M)
W5837	Z-W6NL	ALAMBRE JUMPER	(M)

W5838	Z-W6NL	ALAMBRE JUMPER	(M)
W5839	Z-W6NL	ALAMBRE JUMPER	(M)
W5840	Z-W6NL	ALAMBRE JUMPER	(M)
W5841	Z-W6NL	ALAMBRE JUMPER	(M)
W5842	Z-W6NL	ALAMBRE JUMPER	(M)
W5843	Z-W6NL	ALAMBRE JUMPER	(M)
W5844	Z-W6NL	ALAMBRE JUMPER	(M)
W5845	Z-W6NL	ALAMBRE JUMPER	(M)
W5846	Z-W6NL	ALAMBRE JUMPER	(M)
W5847	Z-W6NL	ALAMBRE JUMPER	(M)
W5848	Z-W6NL	ALAMBRE JUMPER	(M)
W5849	Z-W6NL	ALAMBRE JUMPER	(M)
W5850	Z-W6NL	ALAMBRE JUMPER	(M)
W5851	Z-W6NL	ALAMBRE JUMPER	(M)
W5852	Z-W6NL	ALAMBRE JUMPER	(M)
W5853	Z-W6NL	ALAMBRE JUMPER	(M)
W5854	Z-W6NL	ALAMBRE JUMPER	(M)
W5855	Z-W6NL	ALAMBRE JUMPER	(M)
W5856	Z-W6NL	ALAMBRE JUMPER	(M)
W5857	Z-W6NL	ALAMBRE JUMPER	(M)
W5858	Z-W6NL	ALAMBRE JUMPER	(M)
W5859	Z-W6NL	ALAMBRE JUMPER	(M)
W5860	Z-W6NL	ALAMBRE JUMPER	(M)
W5861	Z-W6NL	ALAMBRE JUMPER	(M)
W5862	Z-W6NL	ALAMBRE JUMPER	(M)
W5863	Z-W6NL	ALAMBRE JUMPER	(M)
W5864	Z-W6NL	ALAMBRE JUMPER	(M)
W5865	Z-W6NL	ALAMBRE JUMPER	(M)
W5866	Z-W6NL	ALAMBRE JUMPER	(M)
W5867	Z-W6NL	ALAMBRE JUMPER	(M)
W5868	Z-W6NL	ALAMBRE JUMPER	(M)
W5869	Z-W6NL	ALAMBRE JUMPER	(M)
W5870	Z-W6NL	ALAMBRE JUMPER	(M)
W5871	Z-W6NL	ALAMBRE JUMPER	(M)
W5872	Z-W6NL	ALAMBRE JUMPER	(M)
W5873	Z-W6NL	ALAMBRE JUMPER	(M)
W5874	Z-W6NL	ALAMBRE JUMPER	(M)
W5875	Z-W6NL	ALAMBRE JUMPER	(M)
W5876	Z-W6NL	ALAMBRE JUMPER	(M)
W5877	Z-W6NL	ALAMBRE JUMPER	(M)
W5878	Z-W6NL	ALAMBRE JUMPER	(M)
W5879	Z-W6NL	ALAMBRE JUMPER	(M)
W5880	Z-W6NL	ALAMBRE JUMPER	(M)
W5881	Z-W6NL	ALAMBRE JUMPER	(M)
W5882	Z-W6NL	ALAMBRE JUMPER	(M)
W5883	Z-W6NL	ALAMBRE JUMPER	(M)
W5884	Z-W6NL	ALAMBRE JUMPER	(M)
W5885	Z-W6NL	ALAMBRE JUMPER	(M)
W5886	Z-W6NL	ALAMBRE JUMPER	(M)
W5887	Z-W6NL	ALAMBRE JUMPER	(M)
W5888	Z-W6NL	ALAMBRE JUMPER	(M)
W5889	Z-W6NL	ALAMBRE JUMPER	(M)
W5890	Z-W6NL	ALAMBRE JUMPER	(M)
W5891	Z-W6NL	ALAMBRE JUMPER	(M)
W5901	Z-W6NL	ALAMBRE JUMPER	(M)
W5902	Z-W6NL	ALAMBRE JUMPER	(M)
W5903	Z-W6NL	ALAMBRE JUMPER	(M)
W5904	Z-W6NL	ALAMBRE JUMPER	(M)
W5905	Z-W6NL	ALAMBRE JUMPER	(M)
W5905	ERJ3GEY0R00V	CHIP JUMPER	(M)
W5906	Z-W6NL	ALAMBRE JUMPER	(M)
W5906	ERJ3GEY0R00V	CHIP JUMPER	(M)
W5907	Z-W6NL	ALAMBRE JUMPER	(M)
W5907	ERJ3GEY0R00V	CHIP JUMPER	(M)
W5908	Z-W6NL	ALAMBRE JUMPER	(M)
W5908	ERJ3GEY0R00V	CHIP JUMPER	(M)
W5909	ERJ3GEY0R00V	CHIP JUMPER	(M)
W5910	Z-W6NL	ALAMBRE JUMPER	(M)
W5910	ERJ3GEY0R00V	CHIP JUMPER	(M)
W5911	Z-W6NL	ALAMBRE JUMPER	(M)
W5911	ERJ3GEY0R00V	CHIP JUMPER	(M)
W5912	Z-W6NL	ALAMBRE JUMPER	(M)
W5912	ERJ3GEY0R00V	CHIP JUMPER	(M)
W5913	Z-W6NL	ALAMBRE JUMPER	(M)
W5913	ERJ3GEY0R00V	CHIP JUMPER	(M)
W5914	Z-W6NL	ALAMBRE JUMPER	(M)

W5914	ERJ3GEY0R00V	CHIP JUMPER	(M)
W5915	Z-W6NL	ALAMBRE JUMPER	(M)
W5915	ERJ3GEY0R00V	CHIP JUMPER	(M)
W5915	ERJ3GEY0R00V	CHIP JUMPER	(M)
W5917	Z-W6NL	ALAMBRE JUMPER	(M)
W5918	Z-W6NL	ALAMBRE JUMPER	(M)
W5920	Z-W6NL	ALAMBRE JUMPER	(M)
W5921	Z-W6NL	ALAMBRE JUMPER	(M)
W5922	Z-W6NL	ALAMBRE JUMPER	(M)
W5923	Z-W6NL	ALAMBRE JUMPER	(M)
W5924	Z-W6NL	ALAMBRE JUMPER	(M)
W5925	Z-W6NL	ALAMBRE JUMPER	(M)
W5926	Z-W6NL	ALAMBRE JUMPER	(M)
W5927	Z-W6NL	ALAMBRE JUMPER	(M)
W5928	Z-W6NL	ALAMBRE JUMPER	(M)
W5929	Z-W6NL	ALAMBRE JUMPER	(M)
W6800	Z-W6NL	ALAMBRE JUMPER	(M)
W6800	REXX0476	7P (2mm) FLAT WIRE TO TRAN	(M)
W6801	Z-W6NL	ALAMBRE JUMPER	(M)
W6802	Z-W6NL	ALAMBRE JUMPER	(M)
W6803	Z-W6NL	ALAMBRE JUMPER	(M)
W6804	Z-W6NL	ALAMBRE JUMPER	(M)
W6805	Z-W6NL	ALAMBRE JUMPER	(M)
W6806	Z-W6NL	ALAMBRE JUMPER	(M)
W6806	REXX0486	5P (2mm) FLAT WIRE TO MIC JACK	(M)
W6807	Z-W6NL	ALAMBRE JUMPER	(M)
W6807	REXX0483	6P FLAT WIRE (PANEL TO MAIN)	(M)
W6808	Z-W6NL	ALAMBRE JUMPER	(M)
W6809	Z-W6NL	ALAMBRE JUMPER	(M)
W6810	Z-W6NL	ALAMBRE JUMPER	(M)
W6810	ERJ3GEY0R00V	CHIP JUMPER	(M)
W6810	REXX0491	2P WIRE (PANEL TO POWER)	(M)
W6811	Z-W6NL	ALAMBRE JUMPER	(M)
W6812	Z-W6NL	ALAMBRE JUMPER	(M)
W6813	Z-W6NL	ALAMBRE JUMPER	(M)
W6814	Z-W6NL	ALAMBRE JUMPER	(M)
W6815	Z-W6NL	ALAMBRE JUMPER	(M)
W6816	Z-W6NL	ALAMBRE JUMPER	(M)
W6817	Z-W6NL	ALAMBRE JUMPER	(M)
W6818	Z-W6NL	ALAMBRE JUMPER	(M)
W6819	Z-W6NL	ALAMBRE JUMPER	(M)
W6820	Z-W6NL	ALAMBRE JUMPER	(M)
W6821	Z-W6NL	ALAMBRE JUMPER	(M)
W6822	Z-W6NL	ALAMBRE JUMPER	(M)
W6823	Z-W6NL	ALAMBRE JUMPER	(M)
W6824	Z-W6NL	ALAMBRE JUMPER	(M)
W6825	Z-W6NL	ALAMBRE JUMPER	(M)
W6826	Z-W6NL	ALAMBRE JUMPER	(M)
W6826	Z-W6NL	ALAMBRE JUMPER	(M)
W6827	Z-W6NL	ALAMBRE JUMPER	(M)
W6828	Z-W6NL	ALAMBRE JUMPER	(M)
W6829	Z-W6NL	ALAMBRE JUMPER	(M)
W6830	Z-W6NL	ALAMBRE JUMPER	(M)
W6830	ERJ3GEY0R00V	CHIP JUMPER	(M)
W6831	Z-W6NL	ALAMBRE JUMPER	(M)
W6832	Z-W6NL	ALAMBRE JUMPER	(M)
W6833	Z-W6NL	ALAMBRE JUMPER	(M)
W6834	Z-W6NL	ALAMBRE JUMPER	(M)
W6835	Z-W6NL	ALAMBRE JUMPER	(M)
W6836	Z-W6NL	ALAMBRE JUMPER	(M)
W6837	Z-W6NL	ALAMBRE JUMPER	(M)
W6838	Z-W6NL	ALAMBRE JUMPER	(M)
W6839	Z-W6NL	ALAMBRE JUMPER	(M)
W6840	Z-W6NL	ALAMBRE JUMPER	(M)
W6841	Z-W6NL	ALAMBRE JUMPER	(M)
W6842	Z-W6NL	ALAMBRE JUMPER	(M)
W6843	Z-W6NL	ALAMBRE JUMPER	(M)
W6844	Z-W6NL	ALAMBRE JUMPER	(M)
W6845	Z-W6NL	ALAMBRE JUMPER	(M)
W6846	Z-W6NL	ALAMBRE JUMPER	(M)
W6847	Z-W6NL	ALAMBRE JUMPER	(M)
W6848	Z-W6NL	ALAMBRE JUMPER	(M)
W6849	Z-W6NL	ALAMBRE JUMPER	(M)
W6850	Z-W6NL	ALAMBRE JUMPER	(M)
W6851	Z-W6NL	ALAMBRE JUMPER	(M)
W6852	Z-W6NL	ALAMBRE JUMPER	(M)

W6853	Z-W6NL	ALAMBRE JUMPER	(M)
W6854	Z-W6NL	ALAMBRE JUMPER	(M)
W6855	Z-W6NL	ALAMBRE JUMPER	(M)
W6856	Z-W6NL	ALAMBRE JUMPER	(M)
W6857	Z-W6NL	ALAMBRE JUMPER	(M)
W6858	Z-W6NL	ALAMBRE JUMPER	(M)
W6860	Z-W6NL	ALAMBRE JUMPER	(M)
W6861	Z-W6NL	ALAMBRE JUMPER	(M)
W6862	Z-W6NL	ALAMBRE JUMPER	(M)
W6863	Z-W6NL	ALAMBRE JUMPER	(M)
W6864	Z-W6NL	ALAMBRE JUMPER	(M)
W6865	Z-W6NL	ALAMBRE JUMPER	(M)
W6866	Z-W6NL	ALAMBRE JUMPER	(M)
W6867	Z-W6NL	ALAMBRE JUMPER	(M)
W6870	Z-W6NL	ALAMBRE JUMPER	(M)
W6871	Z-W6NL	ALAMBRE JUMPER	(M)
W6872	Z-W6NL	ALAMBRE JUMPER	(M)
W6874	Z-W6NL	ALAMBRE JUMPER	(M)
W6875	Z-W6NL	ALAMBRE JUMPER	(M)
W6876	Z-W6NL	ALAMBRE JUMPER	(M)
W6877	Z-W6NL	ALAMBRE JUMPER	(M)
W6878	Z-W6NL	ALAMBRE JUMPER	(M)
W6879	Z-W6NL	ALAMBRE JUMPER	(M)
W6880	Z-W6NL	ALAMBRE JUMPER	(M)
W6881	Z-W6NL	ALAMBRE JUMPER	(M)
W6882	Z-W6NL	ALAMBRE JUMPER	(M)
W6882	ERJ3GEY0R00V	CHIP JUMPER	(M)
W6883	Z-W6NL	ALAMBRE JUMPER	(M)
W6884	Z-W6NL	ALAMBRE JUMPER	(M)
W6885	Z-W6NL	ALAMBRE JUMPER	(M)
W6886	Z-W6NL	ALAMBRE JUMPER	(M)
W6886	ERJ3GEY0R00V	CHIP JUMPER	(M)
W6887	Z-W6NL	ALAMBRE JUMPER	(M)
W6887	ERJ3GEY0R00V	CHIP JUMPER	(M)
W6888	Z-W6NL	ALAMBRE JUMPER	(M)
W6888	ERJ3GEY0R00V	CHIP JUMPER	(M)
W6889	Z-W6NL	ALAMBRE JUMPER	(M)
W6889	ERJ3GEY0R00V	CHIP JUMPER	(M)
W6890	Z-W6NL	ALAMBRE JUMPER	(M)
W6890	ERJ3GEY0R00V	CHIP JUMPER	(M)
W6891	Z-W6NL	ALAMBRE JUMPER	(M)
W6891	ERJ3GEY0R00V	CHIP JUMPER	(M)
W6900	Z-W6NL	ALAMBRE JUMPER	(M)
W6901	Z-W6NL	ALAMBRE JUMPER	(M)
W6901	ERJ3GEY0R00V	CHIP JUMPER	(M)
W6902	Z-W6NL	ALAMBRE JUMPER	(M)
W6902	ERJ3GEY0R00V	CHIP JUMPER	(M)
W6903	Z-W6NL	ALAMBRE JUMPER	(M)
W6904	Z-W6NL	ALAMBRE JUMPER	(M)
W6905	Z-W6NL	ALAMBRE JUMPER	(M)
W6906	Z-W6NL	ALAMBRE JUMPER	(M)
W6906	ERJ3GEY0R00V	CHIP JUMPER	(M)
W6907	Z-W6NL	ALAMBRE JUMPER	(M)
W6907	ERJ3GEY0R00V	CHIP JUMPER	(M)
W6908	Z-W6NL	ALAMBRE JUMPER	(M)
W6908	ERJ3GEY0R00V	CHIP JUMPER	(M)
W6909	Z-W6NL	ALAMBRE JUMPER	(M)
W6910	Z-W6NL	ALAMBRE JUMPER	(M)
W6911	Z-W6NL	ALAMBRE JUMPER	(M)
W6912	Z-W6NL	ALAMBRE JUMPER	(M)
W6913	Z-W6NL	ALAMBRE JUMPER	(M)
W6914	Z-W6NL	ALAMBRE JUMPER	(M)
W6915	Z-W6NL	ALAMBRE JUMPER	(M)
W6915	ERJ3GEY0R00V	CHIP JUMPER	(M)
W6916	Z-W6NL	ALAMBRE JUMPER	(M)
W6916	ERJ3GEY0R00V	CHIP JUMPER	(M)
W6917	Z-W6NL	ALAMBRE JUMPER	(M)
W6918	Z-W6NL	ALAMBRE JUMPER	(M)
W6919	Z-W6NL	ALAMBRE JUMPER	(M)
W6919	ERJ3GEY0R00V	CHIP JUMPER	(M)
W9500	Z-W6NL	ALAMBRE JUMPER	(M)
W9501	Z-W6NL	ALAMBRE JUMPER	(M)
W9502	Z-W6NL	ALAMBRE JUMPER	(M)
W9502	Z-W6NL	ALAMBRE JUMPER	(M)
W9503	Z-W6NL	ALAMBRE JUMPER	(M)
W9504	Z-W6NL	ALAMBRE JUMPER	(M)

W9504	Z-W6NL	ALAMBRE JUMPER	(M)
W9505	Z-W6NL	ALAMBRE JUMPER	(M)
W9505	Z-W6NL	ALAMBRE JUMPER	(M)
W9506	Z-W6NL	ALAMBRE JUMPER	(M)
W9506	Z-W6NL	ALAMBRE JUMPER	(M)
W9507	Z-W6NL	ALAMBRE JUMPER	(M)
W9507	Z-W6NL	ALAMBRE JUMPER	(M)
W9508	Z-W6NL	ALAMBRE JUMPER	(M)
W9508	Z-W6NL	ALAMBRE JUMPER	(M)
W9509	Z-W6NL	ALAMBRE JUMPER	(M)
W9509	Z-W6NL	ALAMBRE JUMPER	(M)
W9510	Z-W6NL	ALAMBRE JUMPER	(M)
W9510	Z-W6NL	ALAMBRE JUMPER	(M)
W9511	Z-W6NL	ALAMBRE JUMPER	(M)
W9511	Z-W6NL	ALAMBRE JUMPER	(M)
W9512	Z-W6NL	ALAMBRE JUMPER	(M)
W9512	Z-W6NL	ALAMBRE JUMPER	(M)
W9513	Z-W6NL	ALAMBRE JUMPER	(M)
W9513	Z-W6NL	ALAMBRE JUMPER	(M)
W9514	Z-W6NL	ALAMBRE JUMPER	(M)
W9514	Z-W6NL	ALAMBRE JUMPER	(M)
W9515	Z-W6NL	ALAMBRE JUMPER	(M)
W9515	Z-W6NL	ALAMBRE JUMPER	(M)
W9516	Z-W6NL	ALAMBRE JUMPER	(M)
W9516	Z-W6NL	ALAMBRE JUMPER	(M)
W9517	Z-W6NL	ALAMBRE JUMPER	(M)
W9517	Z-W6NL	ALAMBRE JUMPER	(M)
W9518	Z-W6NL	ALAMBRE JUMPER	(M)
W9518	Z-W6NL	ALAMBRE JUMPER	(M)
W9519	Z-W6NL	ALAMBRE JUMPER	(M)
W9519	Z-W6NL	ALAMBRE JUMPER	(M)
W9520	Z-W6NL	ALAMBRE JUMPER	(M)
W9520	Z-W6NL	ALAMBRE JUMPER	(M)
W9520	Z-W6NL	ALAMBRE JUMPER	(M)
W9521	Z-W6NL	ALAMBRE JUMPER	(M)
W9521	Z-W6NL	ALAMBRE JUMPER	(M)
W9522	Z-W6NL	ALAMBRE JUMPER	(M)
W9522	Z-W6NL	ALAMBRE JUMPER	(M)
W9523	Z-W6NL	ALAMBRE JUMPER	(M)
W9523	Z-W6NL	ALAMBRE JUMPER	(M)
W9524	Z-W6NL	ALAMBRE JUMPER	(M)
W9524	Z-W6NL	ALAMBRE JUMPER	(M)
W9525	Z-W6NL	ALAMBRE JUMPER	(M)
W9525	Z-W6NL	ALAMBRE JUMPER	(M)
W9526	Z-W6NL	ALAMBRE JUMPER	(M)
W9526	Z-W6NL	ALAMBRE JUMPER	(M)
W9527	Z-W6NL	ALAMBRE JUMPER	(M)
W9528	Z-W6NL	ALAMBRE JUMPER	(M)
W9529	Z-W6NL	ALAMBRE JUMPER	(M)
W9529	Z-W6NL	ALAMBRE JUMPER	(M)
W9530	Z-W6NL	ALAMBRE JUMPER	(M)
W9530	Z-W6NL	ALAMBRE JUMPER	(M)
W9531	Z-W6NL	ALAMBRE JUMPER	(M)
W9531	Z-W6NL	ALAMBRE JUMPER	(M)
W9532	Z-W6NL	ALAMBRE JUMPER	(M)
W9532	Z-W6NL	ALAMBRE JUMPER	(M)
W9533	Z-W6NL	ALAMBRE JUMPER	(M)
W9533	Z-W6NL	ALAMBRE JUMPER	(M)
W9534	Z-W6NL	ALAMBRE JUMPER	(M)
W9535	Z-W6NL	ALAMBRE JUMPER	(M)
W9536	Z-W6NL	ALAMBRE JUMPER	(M)
W9537	Z-W6NL	ALAMBRE JUMPER	(M)
W9540	Z-W6NL	ALAMBRE JUMPER	(M)
W9540	Z-W6NL	ALAMBRE JUMPER	(M)
W9541	Z-W6NL	ALAMBRE JUMPER	(M)
W9541	Z-W6NL	ALAMBRE JUMPER	(M)
W9542	Z-W6NL	ALAMBRE JUMPER	(M)
W9542	Z-W6NL	ALAMBRE JUMPER	(M)
W9543	Z-W6NL	ALAMBRE JUMPER	(M)
W9543	Z-W6NL	ALAMBRE JUMPER	(M)
W9544	Z-W6NL	ALAMBRE JUMPER	(M)
W9544	Z-W6NL	ALAMBRE JUMPER	(M)
W9545	Z-W6NL	ALAMBRE JUMPER	(M)
W9545	Z-W6NL	ALAMBRE JUMPER	(M)
W9546	Z-W6NL	ALAMBRE JUMPER	(M)
W9546	Z-W6NL	ALAMBRE JUMPER	(M)

W9547	Z-W6NL	ALAMBRE JUMPER	(M)
W9547	Z-W6NL	ALAMBRE JUMPER	(M)
W9548	Z-W6NL	ALAMBRE JUMPER	(M)
W9548	Z-W6NL	ALAMBRE JUMPER	(M)
W9549	Z-W6NL	ALAMBRE JUMPER	(M)
W9549	Z-W6NL	ALAMBRE JUMPER	(M)
W9550	Z-W6NL	ALAMBRE JUMPER	(M)
W9550	Z-W6NL	ALAMBRE JUMPER	(M)
W9551	Z-W6NL	ALAMBRE JUMPER	(M)
W9551	Z-W6NL	ALAMBRE JUMPER	(M)
W9552	Z-W6NL	ALAMBRE JUMPER	(M)
W9552	Z-W6NL	ALAMBRE JUMPER	(M)
W9553	Z-W6NL	ALAMBRE JUMPER	(M)
W9553	Z-W6NL	ALAMBRE JUMPER	(M)
W9600	Z-W6NL	ALAMBRE JUMPER	(M)
OSCILATOR			
REF No	PART NUMBER	DESCRIPTION	REMARKS
X2602	H3F1065A0002	DISCRIMINATOR	(M)
X2603	H0H720400007	CRYSTAL OSCILLATOR	(M)
X6800	H2A1005A0005	10 MHZ RESONATOR	(M)
X6801	H0A327200115	37.768 KHz XTAL	(M)
Z2602	G2BAD0000003	BOBINA AM	(M)
Z2620	RAIM03815A	CONJUNTO TUNER PACK	(M)
Z6800	B3RAB0000025	CONTROL SENSOR REMOTO	(M)
PRINTED CIRCUIT BOARD			
REF No	PART NUMBER	DESCRIPTION	REMARKS
	REPM03815A	CONJUNTO TUNER MANUAL	(M)
	REPM059000A	CONJ. MAN. TRANSF. SA-TM900	(M)
	REPM059001A	CONJ. MANUAL PODER SA-TM900	(M)
	REPM059002A	CONJ. MANUAL MAIN SA-TM900	(M)
	REPM059003A	CONJUNTO PANEL SC-TM900	(M)

CONNECTORS

REF. No.	PART NUMBER	PART NAME & DESCRITPION	REMARKS
CN1001	K1MN14B00058	CONNECTOR	(M)
CS1001	K1MN05A00039	CONNECTOR	(M)
CS1002	K1MN05A00039	CONNECTOR	(M)
W1002	RWJ0102050CK	MULTICABLE	(M)

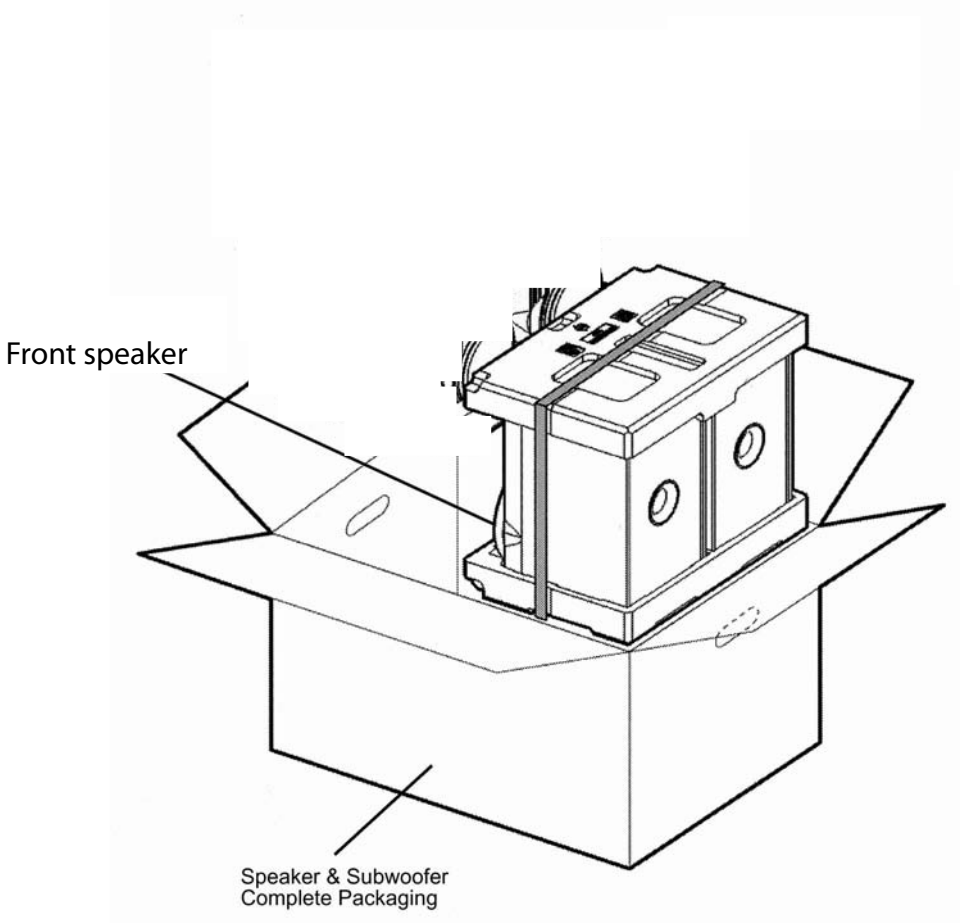
26.5. Packing Materials & Accessories Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	RPGX1488	PACKING CASE	[M]
P2	RPNX0330	POLYFOAM	[M]
P3	RPFX0007	MIRAMAT BAG	[M]
		ACCESSORIES	
A1	N2QAJB000141	REMOTE CONTROL	[M]
A1-1	RKK-HTR0051K	R/C BATTERY COVER	[M]
A2	K2CQ2CA00002	AC CORD	[M] ⚠
A3	RQT8172-M	O/I BOOK (Sp)	[M]
A4	RSA0006-J	FM ANTENNA	[M]
A5	N1DAAAA00001	AM ANTENNA	[M]
A6	K2KA2BA00001	VIDEO CABLE	[M]
A7	K2DA42E00001	AC PLUG ADAPTOR	[M]

26.6. Packaging

26.6.1. Packaging (SB-TM900DVD)

This section consists of the packaging information for SB-TM900DVD . Below is the table for speaker combination. For information on the speakers model, please refer to its respective original service manual.



26.6.2. Packaging (SA-TM900DVD)

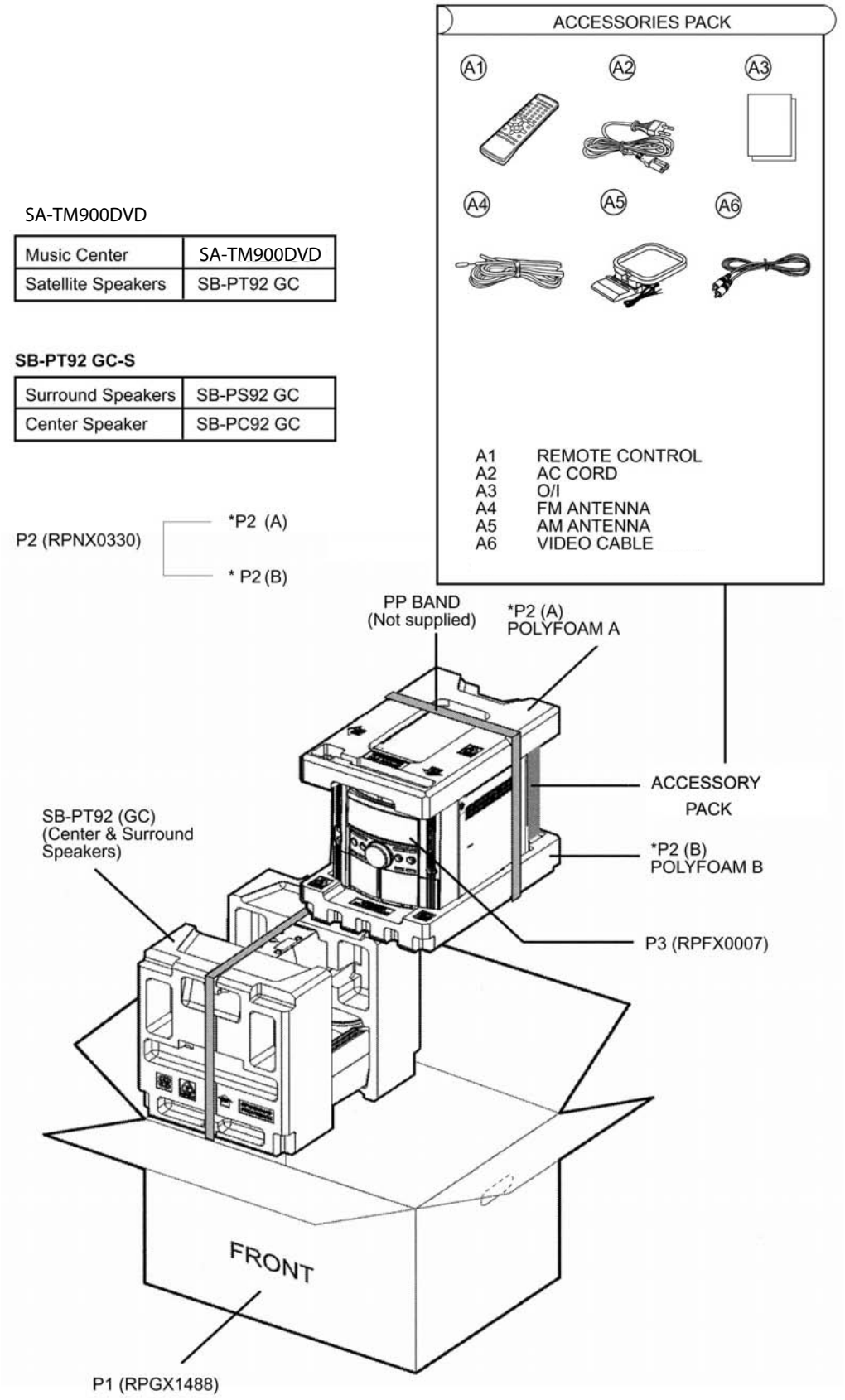
This section consists of the packaging information for SA-TM900DVD. Below is the table for system combination. For information on the speakers model, please refer to its respective original service manual.

SA-TM900DVD

Music Center	SA-TM900DVD
Satellite Speakers	SB-PT92 GC

SB-PT92 GC-S

Surround Speakers	SB-PS92 GC
Center Speaker	SB-PC92 GC



ORDER NO. MD0504165C3

Service Manual

Speaker System

SC-TM750, SC-TM850/950DIN, SC-TM900/1000DVD

Bafle Frontal

SC-TM750
SC-TM850/950DIN
SC-TM900/1000DVD

Specification

Clave	**SB-TM900/1000DVD** **SB-TM850/950DIN** **SB-TM750**
IMPEDANCIA DE ENTRADA	**Alto 4 Ω, Bajo 4 Ω**
Bocina Super Woofer	**20 cm**
Bocina Woofer	**12 cm**
Bocina Tweeter	**6 cm**
Dimensiones (b x h x l)	**250 mm x 429 mm x 318.5 mm**
Peso	6.9 kg aprox.

Colour
(S)... Silver Type

Subwoofer

SC-TM950DIN, SC-TM1000DVD

Specification

	SB-WTM950 **SB-WTM1000**
IMPEDANCIA DE ENTRADA	**8 Ω**
Bocina Woofer	**16 cm x 2**
Dimensiones (b x h x l)	**200 mm x 429 mm x 428 mm**
Peso	6.8 kg aprox.

Surround

SC-TM850/950DIN
SC-TM900/1000DVD

Specification

Clave	**SB-PS92**
IMPEDANCIA DE ENTRADA	**4 Ω**
Bocina Woofer	**8 cm**
Bocina Tweeter	**6 cm**
Dimensiones (b x h x l)	**140 mm x 330 mm x 155.8 mm**
Peso	1.3 kg aprox.

Bafle Central

SC-TM850/950DIN
SC-TM900/1000DVD

Specification

Clave	**SB-PC92**
IMPEDANCIA DE ENTRADA	**4 Ω**
Bocina Woofer	**8 cm x 2**
Super Tweeter	**Piezo type**
Dimensiones (b x h x l)	**409 mm x 104 mm x 155.5 mm**
Peso	1.5 kg aprox.

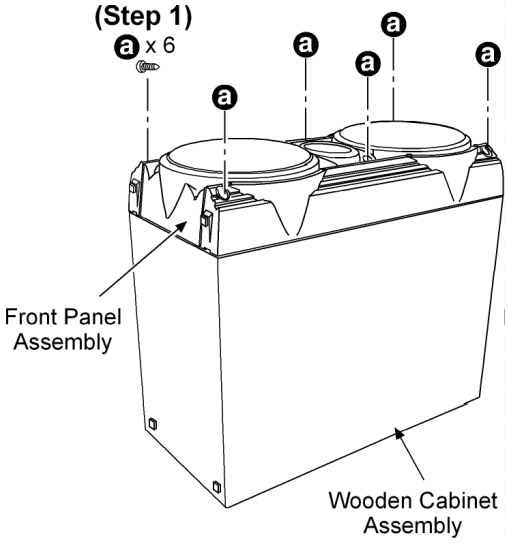
Notes :

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

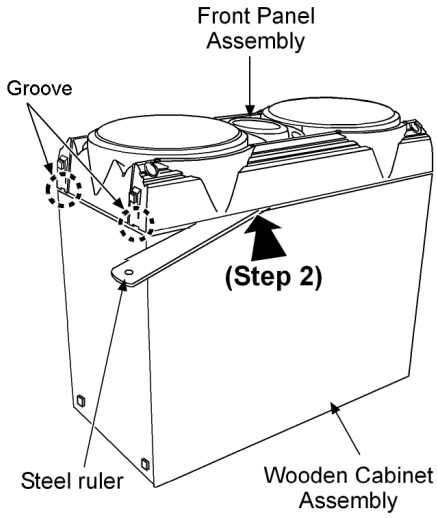
Panasonic

1 Disassembly Process SUBWOOFER(SC-TM950DIN/1000DVD)

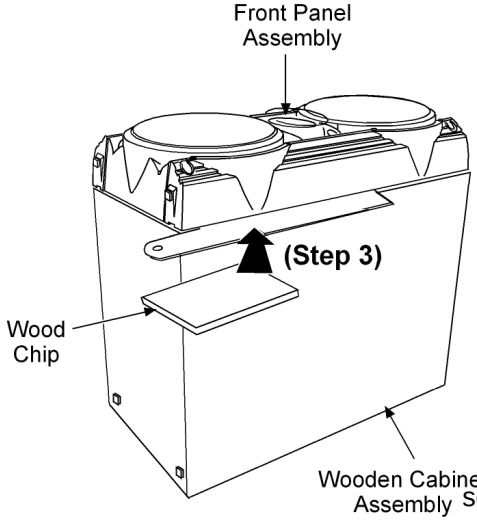
1.1. Disassembly of Front Panel Assembly



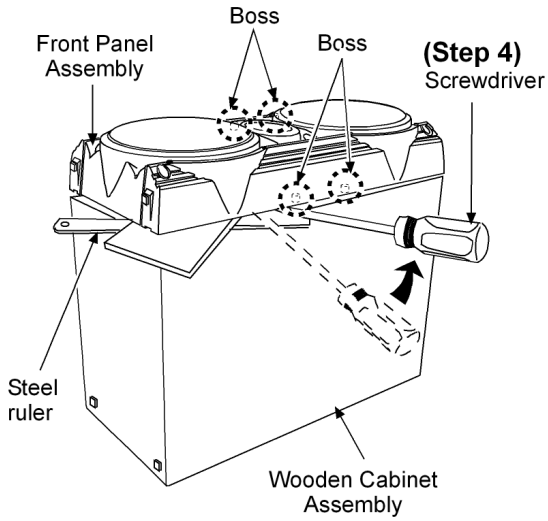
Step 1: Remove 6 screws from Front Panel Assembly.



Step 2: Slot in a steel ruler to make a gap allowance between Front Panel Assembly and Wooden Cabinet Assembly as arrow shown.



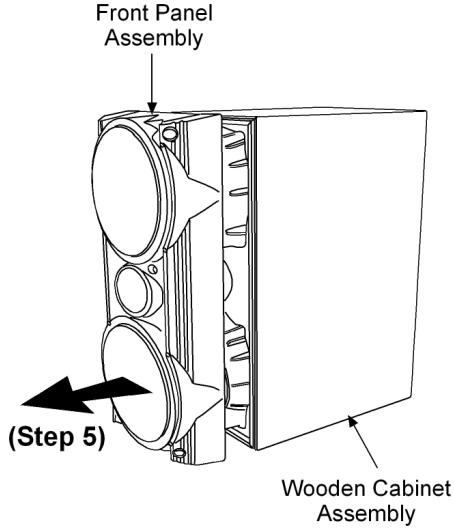
Step 3: Slot a piece of wood chip in between Front Panel Assembly and the steel ruler as arrow shown.



Step 4: Use the screwdriver to slightly lift up Front Panel Assembly as arrow shown.

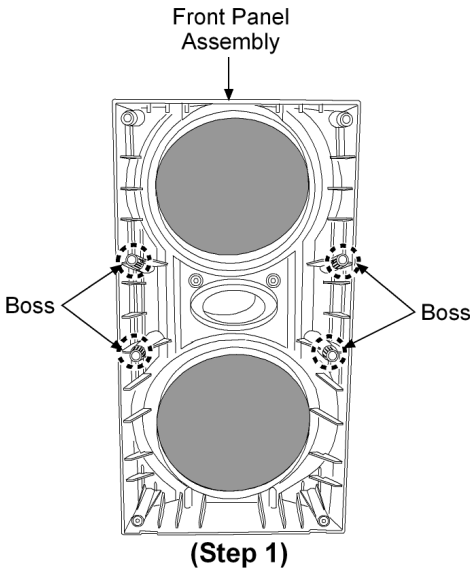
Note:

Be careful with the bosses which are glued to Wooden Cabinet Assembly.

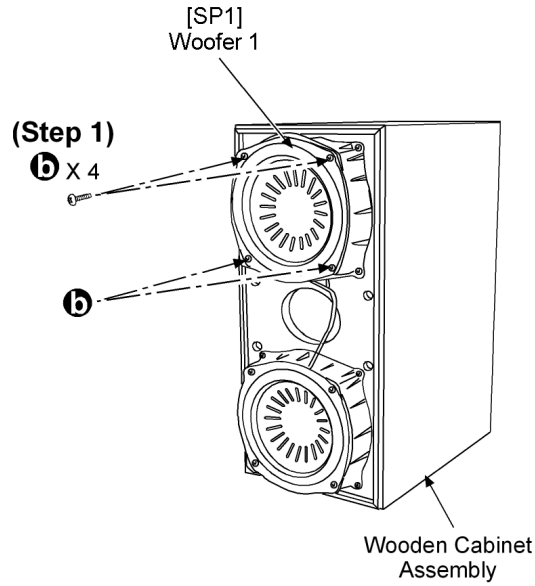


Step 5: Remove Front Panel Assembly from Wooden Cabinet Assembly as arrow shown.

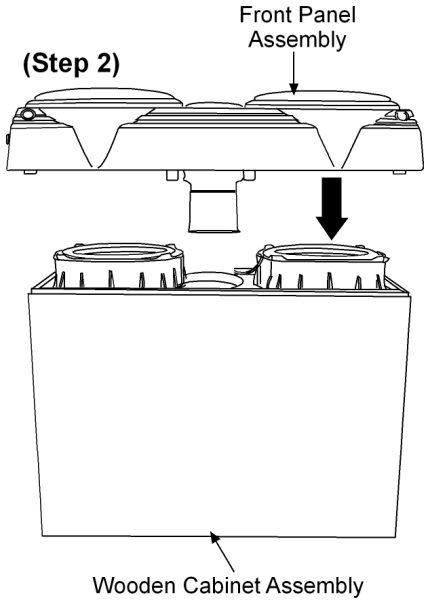
1.1.1. Assembly of Front Panel Assembly



Step 1: Clean up the remaining glue at the 4 bosses and replace with normal glue.



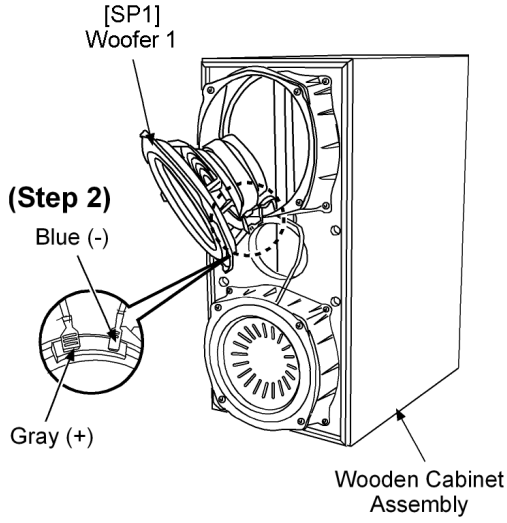
Step 1: Remove 4 screws from Woofer 1.



Step 2: Place Front Panel Assembly firmly back to Wooden Cabinet Assembly.

1.2. Disassembly of the Woofer 1

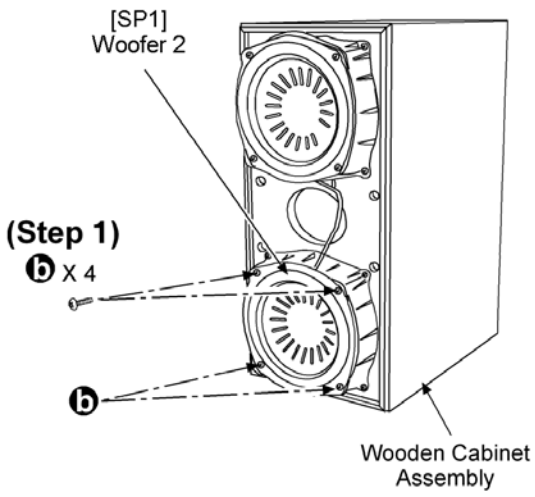
Follow (step 1) to (step 5) in item 1.1.



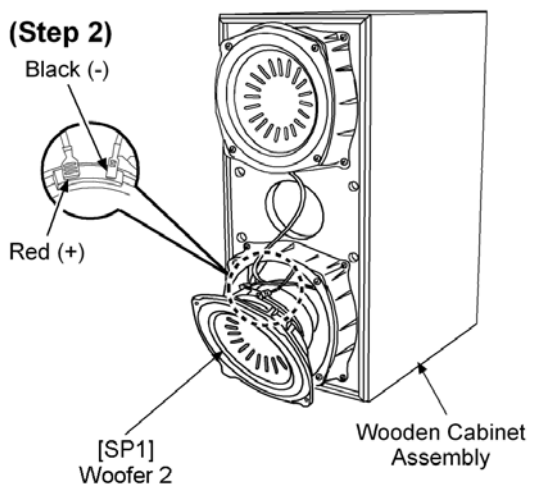
Step 2: Remove Woofer 1 by detaching the (+) gray and (-) blue wires.

1.3. Disassembly of the Woofer 2

Follow (step 1) to (step 5) in item 1.1.



Step 1: Remove 4 screws from Woofer 2.



Step 2: Remove Woofer 2 by detaching the (+) red and (-) black wires.

Replacement Parts List

Notes :

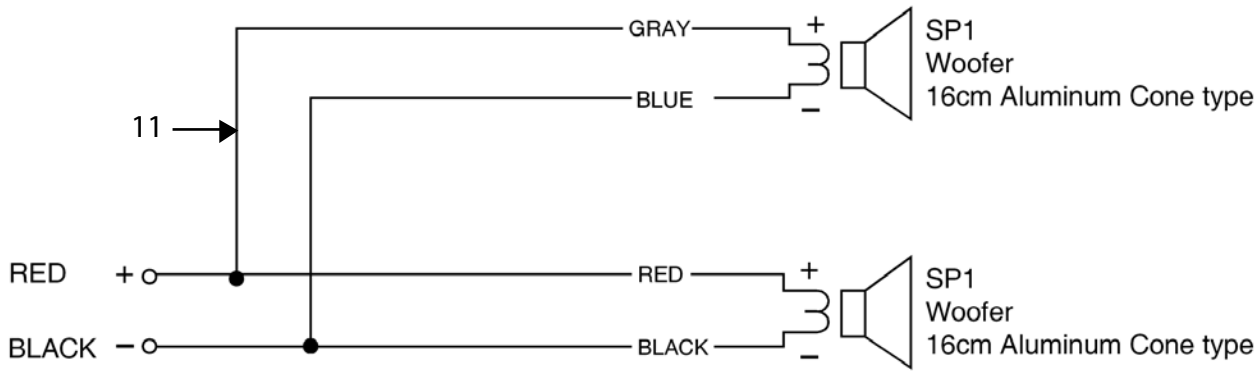
- Important safety notice :

  When replacing any of these components, be sure to use only manufacturer's specified parts shown in the parts list.
- [M] markings in the Remarks columns indicates parts supplied by **PAVCSG**.

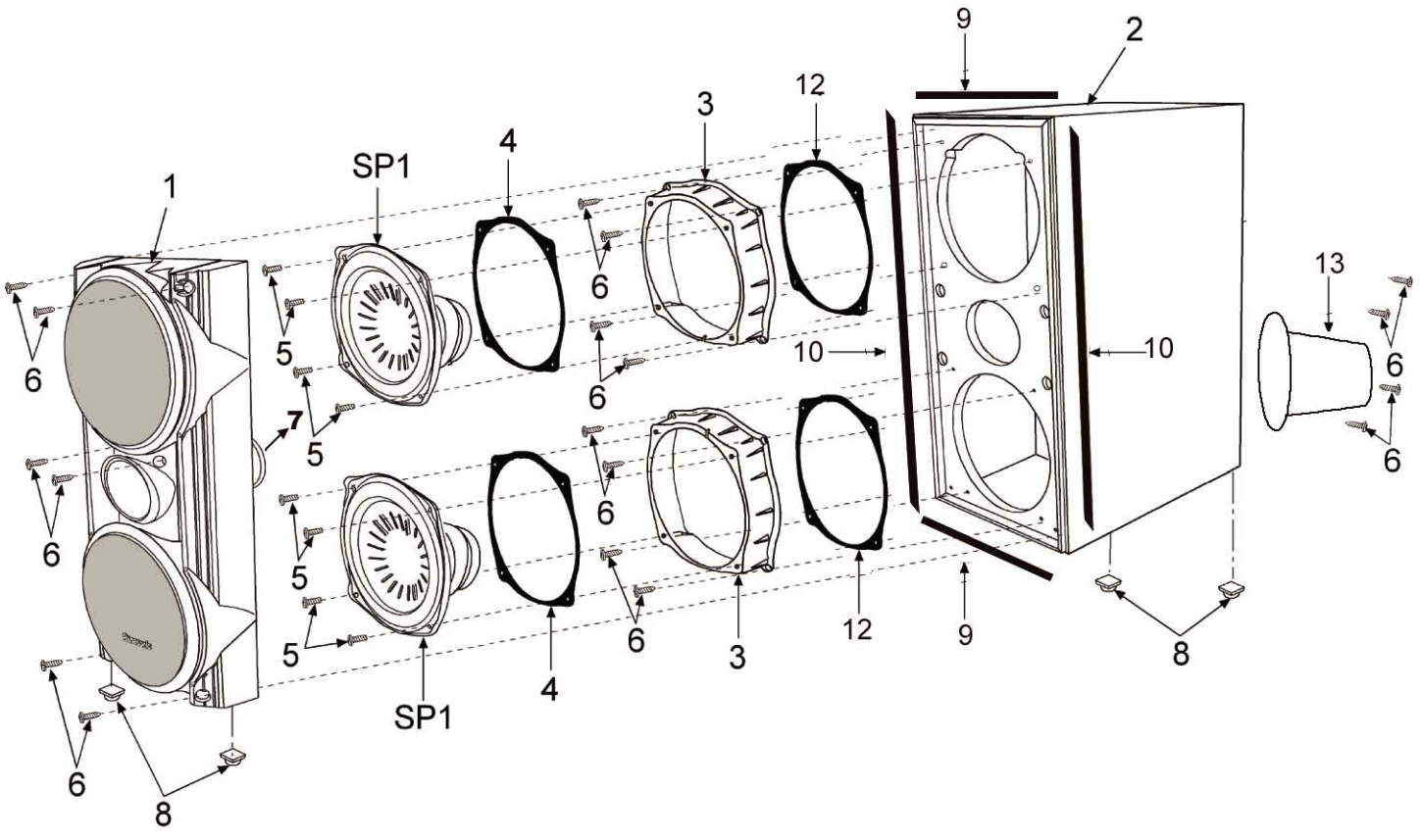
Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	RYPM0201	FRONT PANEL ASS'Y	[M]
2	RKPM0097	WOODEN CAB. ASS'Y	[M]
3	RMRX0062-K	WOOFER SPACER	[M]
4	RMQX0147-K	WOOFER SPACER PACKING	[M]
5	XTB4+10GFJ-A	SCREW	[M]
6	XTB4+16AFJ	SCREW	[M]
7	RMQX0149-K	INNER PORT PACKING	[M]
8	RKA0072-KJ	LEG CUSHION	[M]
9	RMQM0117	HEMILON SUP/INF	[M]
10	RMQM0116	HEMILON INFEROR	[M]
11	REEX0490	SW SPEAKER CORD (RED/BLACK)	[M]
12	RMQX0148-K	WOOFER UNIT PACKING	[M]
13	RKTM0007	DUCTO SUBWOOFER	[M]
SP1	EAS16PL702A	WOOFER SPEAKER	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
	RZRM0001-A	FLEJE	[M]
	TPS1-1A	CINTA DIUREX	[M]
	RPNM0167B	UNICEL	[M]
	RPNM0167T	UNICEL	[M]
	RPFM0029	BOLSA SUBWOOFER	[M]

3 Connection of the Wiring Diagram

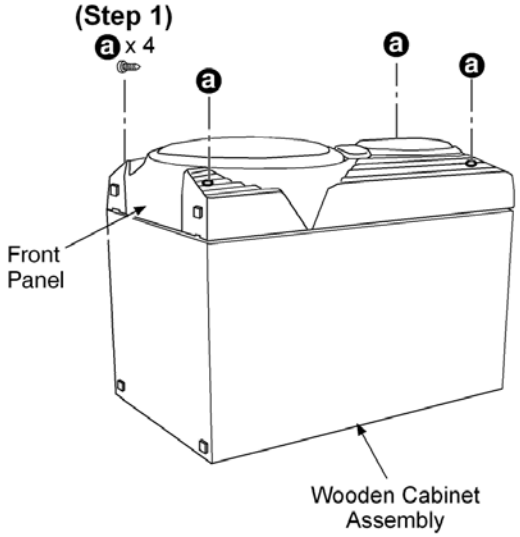


4 Cabinet Parts Location

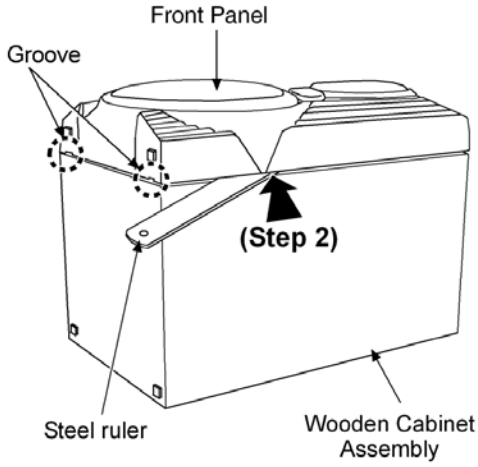


1 Disassembly Process FRONT SPEAKER(SC-TM750, SC-TM850/950DIN y SC-TM900/1000DVD)

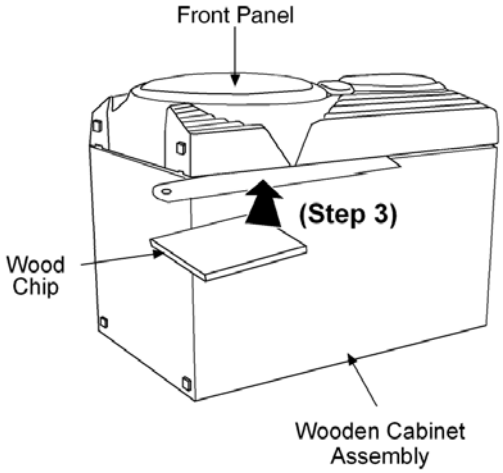
1.1. Disassembly of Front Panel



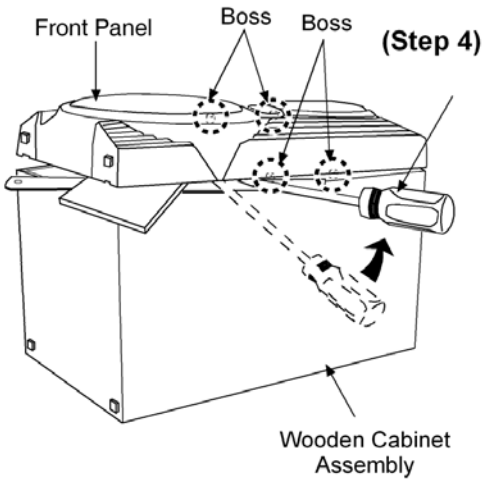
Step 1: Remove 4 screws from Front Panel.



Step 2: Slot in a steel ruler to make a gap allowance between Front Panel and Wooden Cabinet Assembly as arrow shown.



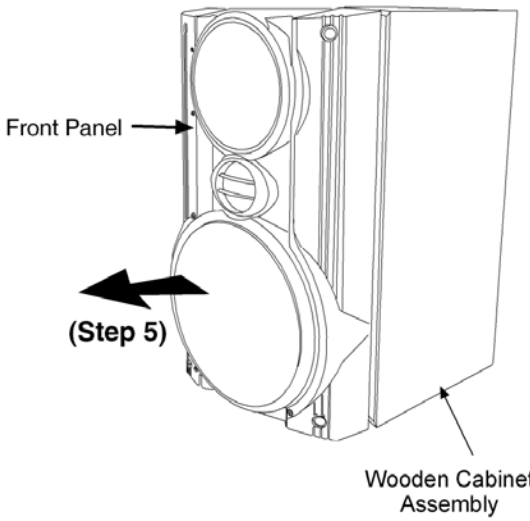
Step 3: Slot a piece of wood chip in between Front Panel and the steel ruler as arrow shown.



Step 4: Use the screwdriver to slightly lift up Front Panel as arrow shown.

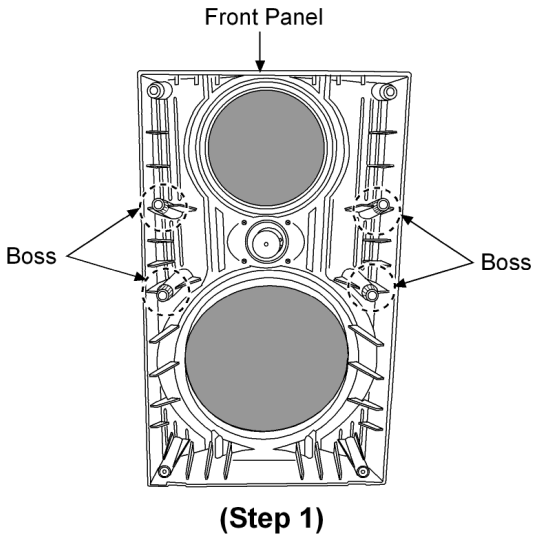
Note:

Be careful with the bosses which are glued to Wooden Cabinet Assembly.

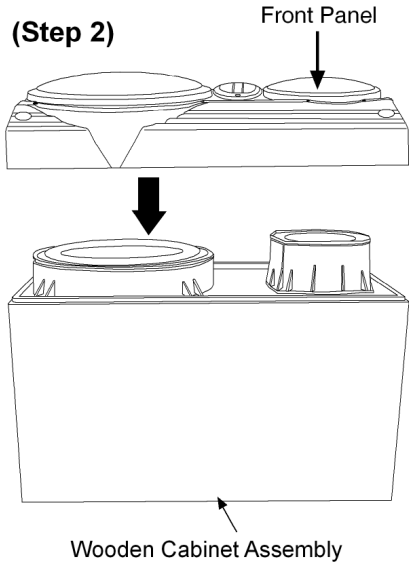


Step 5: Remove Front Panel from Wooden Cabinet Assembly as arrow shown.

1.1.1. Assembly of Front Panel



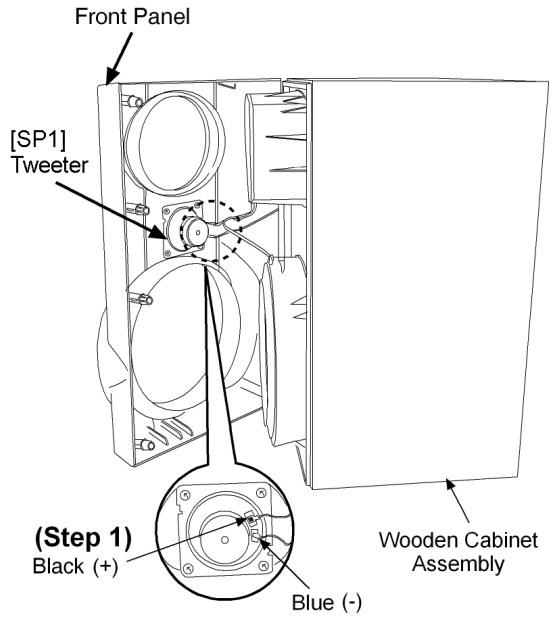
Step 1: Clean up the remaining glue at the 4 bosses and replace with normal glue.



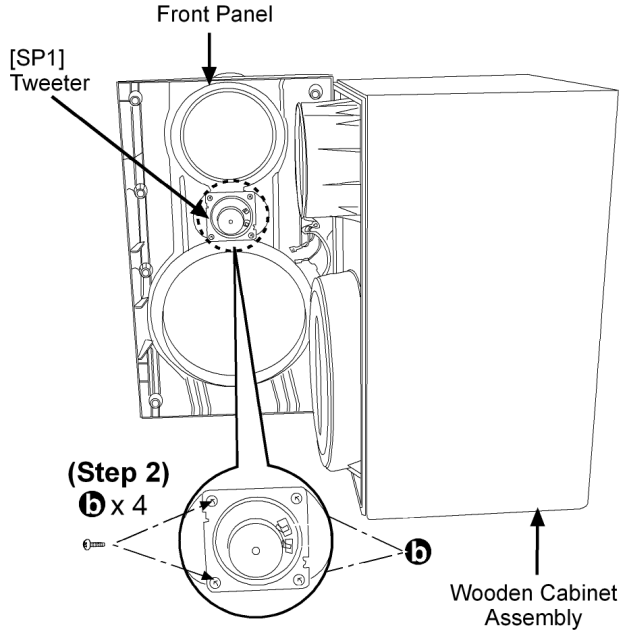
Step 2: Place Front Panel firmly back to Wooden Cabinet Assembly.

1.2. Disassembly of Tweeter

Follow (step 1) to (step 5) in item 1.1.



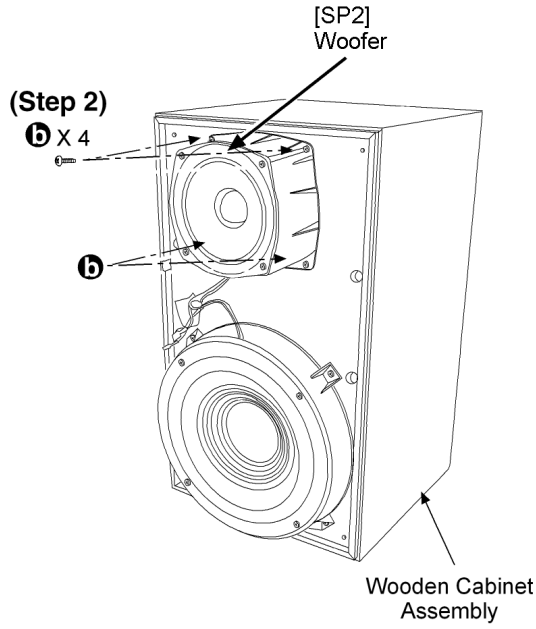
Step 1: Detach the (+) black and (-) blue wires from Tweeter.



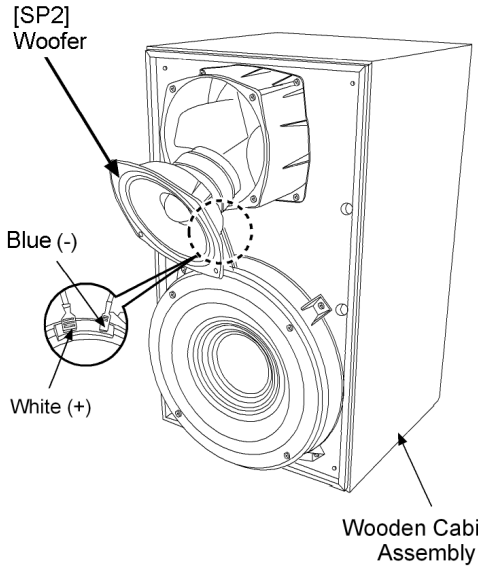
Step 2: Remove 4 screws from Tweeter.

1.3. Disassembly of Woofer

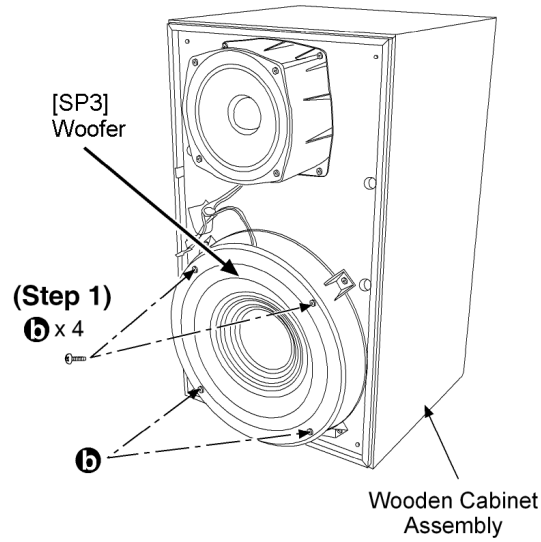
Follow (step 1) to (step 5) in item 1.1.



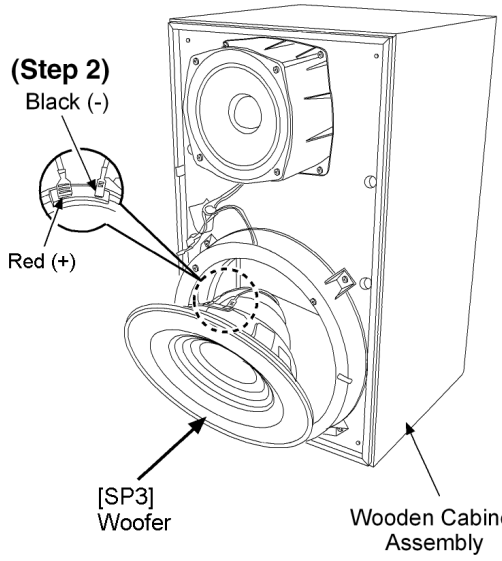
Step 1: Remove 4 screws from Woofer.



Step 2: Remove Woofer by detaching the (+) white and (-) blue wires.



Step 1: Remove 4 screws from Woofer.

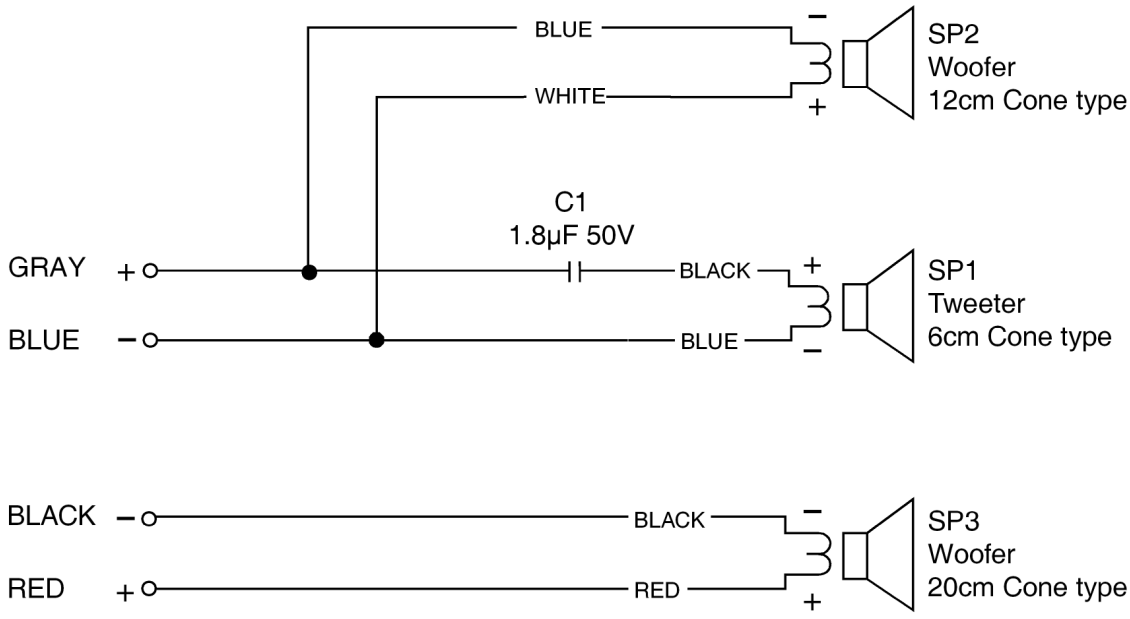


Step 2: Remove Woofer by detaching the (+) red and (-) black wires.

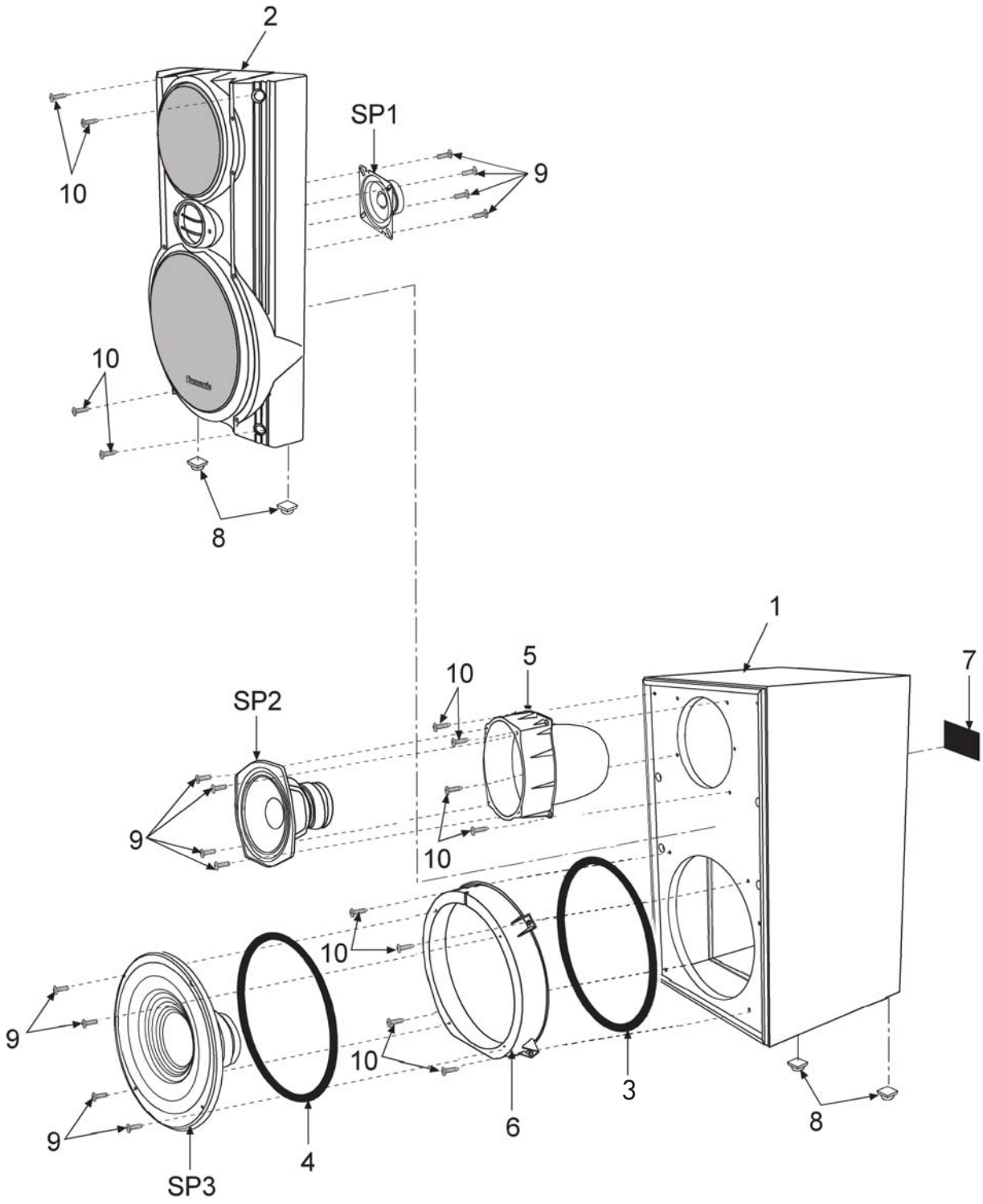
1.4. Disassembly of Woofer

Follow (step 1) to (step 5) in item 1.1.

3 Connection of the Wiring Diagram



4 Cabinet Parts Location



5 Replacement Parts List

Notes :

- Important safety notice :

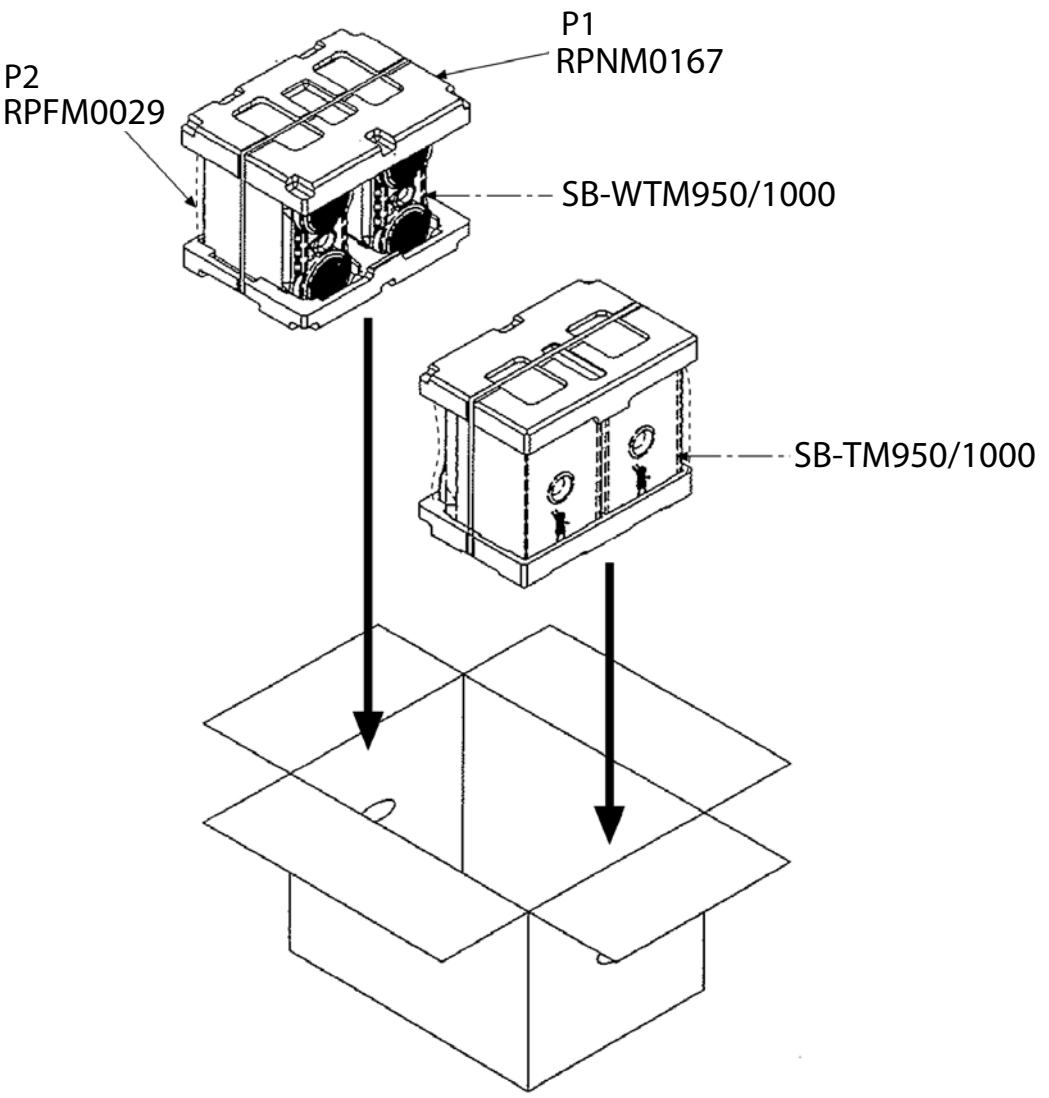
  When replacing any of these components, be sure to use only manufacturer's specified parts shown in the parts list.
- [M] markings in the Remarks columns indicates parts supplied by **PAVCSG**.

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	RKPM0096	WOODEN CAB. ASS'Y	[M]
2	RYPM0200	FRONT PANEL ASS'Y	[M]
3	RMQXO144-K	PACKING WOOFER (GABINETE)	[M]
4	RMQXO142-K	PACKING WOOFER (WOOFER)	[M]
5	RMRM0016	BACK CAVITY	[M]
6	RMRX0061-K	WOOFER SPACER	[M]
7	--PRINT--	SPEC SHEET	[M]
8	RKA0072-KJ	LEG CUSHION	[M]
9	XTB4+10GFJ-A	SCREW	
10	XTB4+16AF	SCREW	[M]
		PACKING MATERIALS	
P1	RPNM0167	POLYFOAM	[M]
P2	RPFM0029	MIRAMAT	[M]
		CAPACITOR	
C1	ECEA1HAY1R8	1.8 UF 50V	[M]
		SPEAKER	
SP1	EAS6PH126A	TWEETER	[M]
SP2	EAS12P546A	WOOFER	[M]
SP3	EAS20PL290A	SUPERWOOFER	[M]

6 Packaging (SB-TM950DIN/ SB-TM1000DVD)

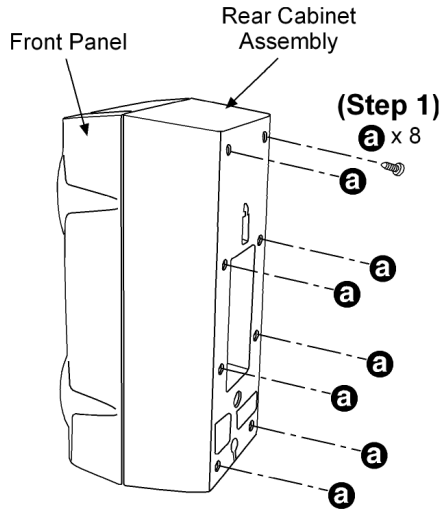
Note: The diagram below shows the packaging for SB-TM950

SB-TM950DINconsists of SB-TM950(X 2) and SB-WTM950(X 2).

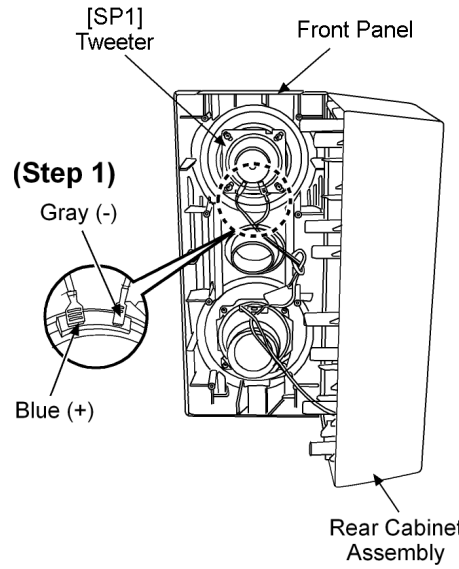


1 Disassembly Process SURROUND(SC-TM850/950DIN, SC-TM900/1000DVD)

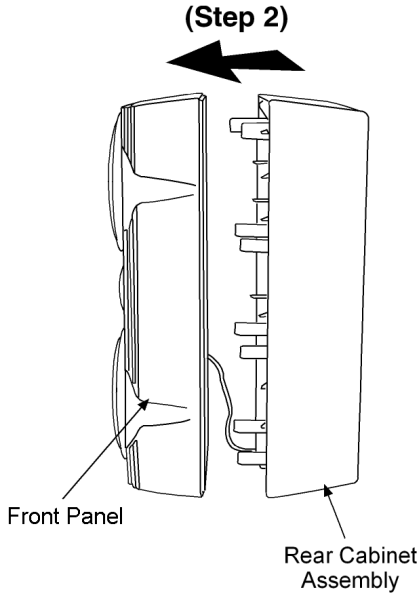
1.1. Disassembly of Front Panel



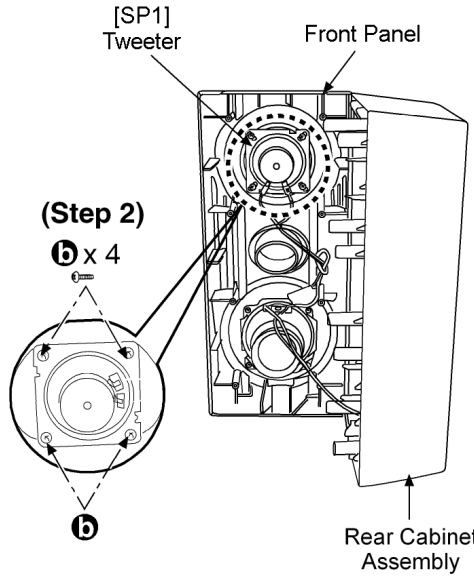
Step 1: Remove 8 screws from Rear Cabinet Assembly.



Step 1: Detach the (+) blue and (-) gray wires from Tweeter.



Step 2: Remove Front Panel from Rear Cabinet Assembly as arrow shown.



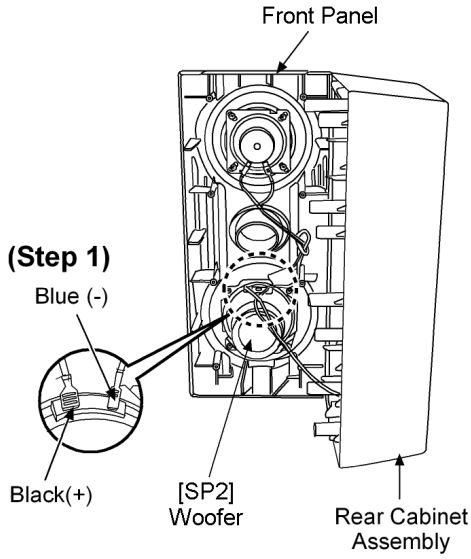
Step 2: Remove 4 screws from Tweeter.

1.2. Disassembly of Tweeter

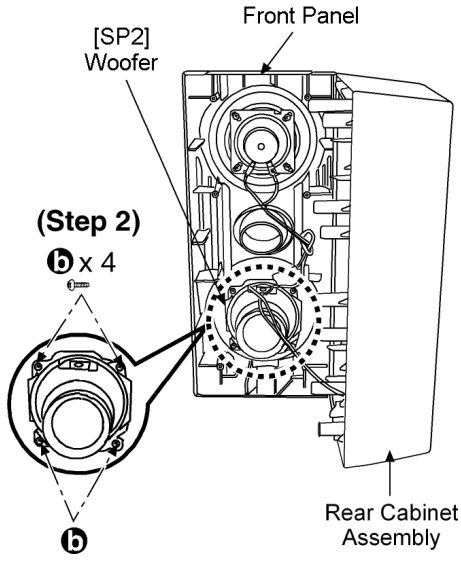
Follow (step 1) to (step 2) in item 1.1.

1.3. Disassembly of Woofer

Follow (step 1) to (step 2) in item 1.1.



Step 1: Detach the (+) black and (-) blue wires from Woofer.



Step 2: Remove 4 screws from Woofer.

2 Connection of the Speaker Cables

- Be sure to connect speaker cables before connecting the AC power supply cord.
- The load impedance of any speaker used with this unit must be 4Ω.
- Be sure to connect the cable from the right speaker to the right terminal and the cable from the left speaker to the left terminal.

1. Twist and pull off the vinyl tip of the speaker cords. If the speaker cords do not have vinyl tips, connect them directly to the terminals. Make sure the bare ends of the wires are not unravelled.
2. Insert the wire to the rear panel of the unit and close the lever.

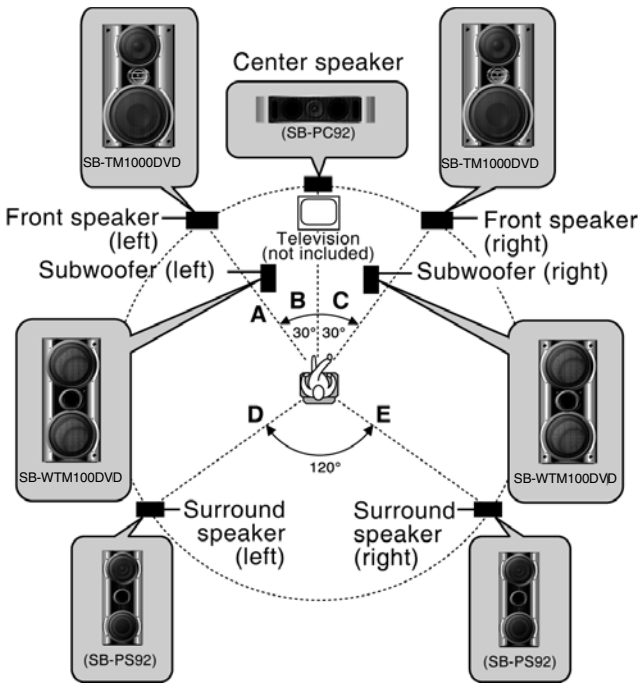
Notes :

- To prevent damage to circuitry, never short-circuit positive (+) and negative (-) speaker wires.
- Be sure to connect only positive (gray) wires to positive (+) terminals and negative (blue) wires to negative (-) terminals.

Placement

How you set up your speakers can affect the bass and the sound field. Note the following points:

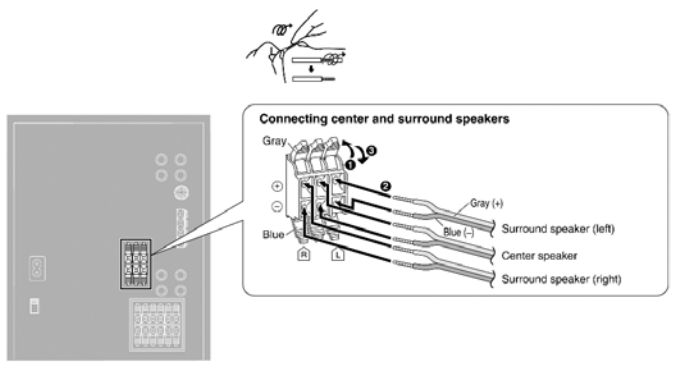
- Place speakers on flat secure bases.
- Placing speakers too close to floors, walls, and corners can result in excessive bass. Cover walls and windows with a thick curtain.
- The angles in the diagram are approximate.



Notes :

- Keep your speakers at least 10 mm away from the system for proper ventilation.
- You cannot take the front net off the speakers.

Connection



Use only the supplied speakers

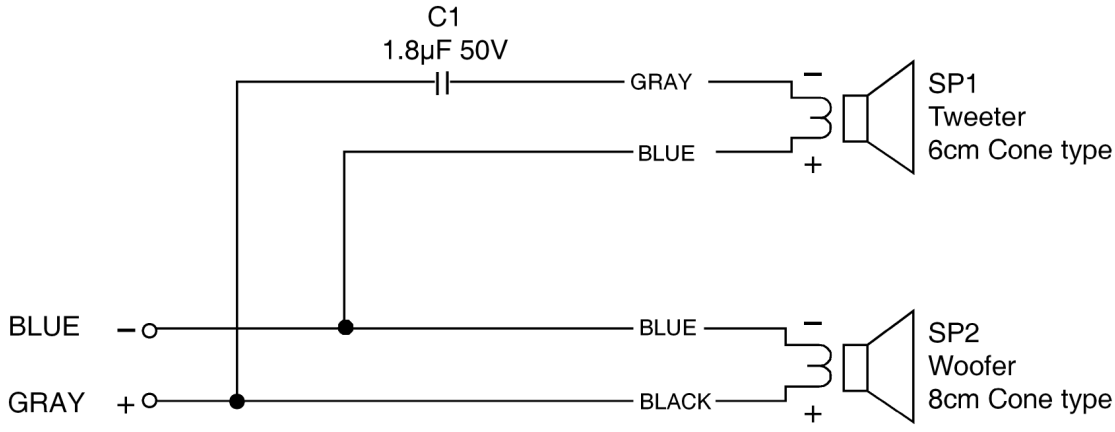
- Using other speakers can damage the unit and sound quality will be negatively affected.
- Set the speakers up on an even surface to prevent them from falling. Take proper precautions to prevent the speakers from falling if you cannot set them up on an even surface.

Notes on speaker use

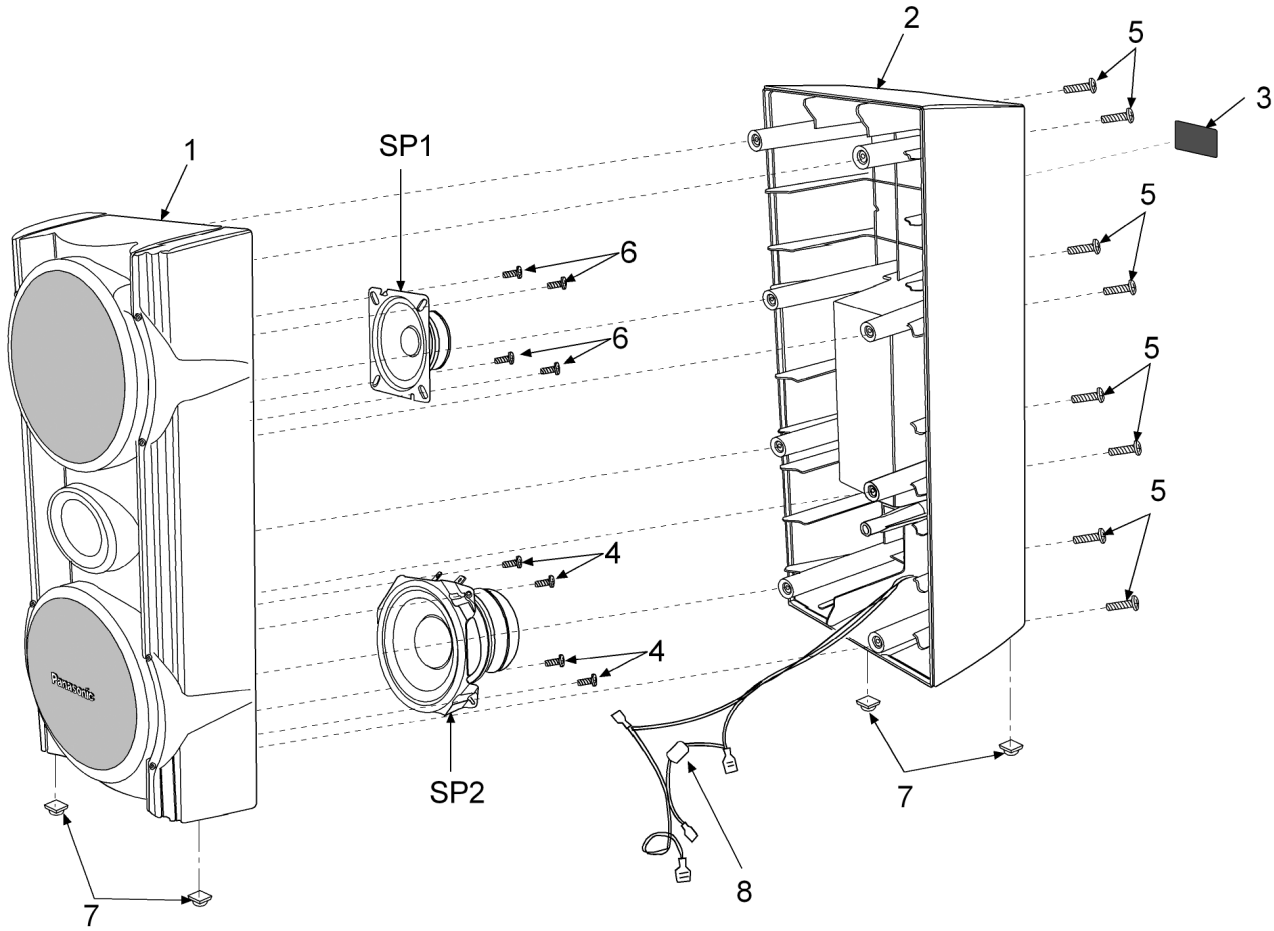
- You can damage your speakers and shorten their useful life if you play sound at high levels over extended periods.
- Reduce the volume in the following cases to avoid damage.
  - When playing distorted sound.
  - When the speakers are reverberating due to a record player, microphone(s), noise from FM broadcasts, or continuous signals from an oscillator, test disc, or electronic instrument.
  - When adjusting the sound quality.
  - When turning the unit on or off.

Caution
- **Use the speakers only with the recommended system. Failure to do so may lead to damage to the amplifier and/or the speakers, and may result in the risk of fire. Consult a qualified service person if damage has occurred or if you experience a sudden change in performance.**
- **Do not attach these speakers to walls or ceilings.**

3 Connection of the Wiring Diagram



4 Cabinet Parts Location



5 Replacement Parts List

Notes :

- Important safety notice :

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

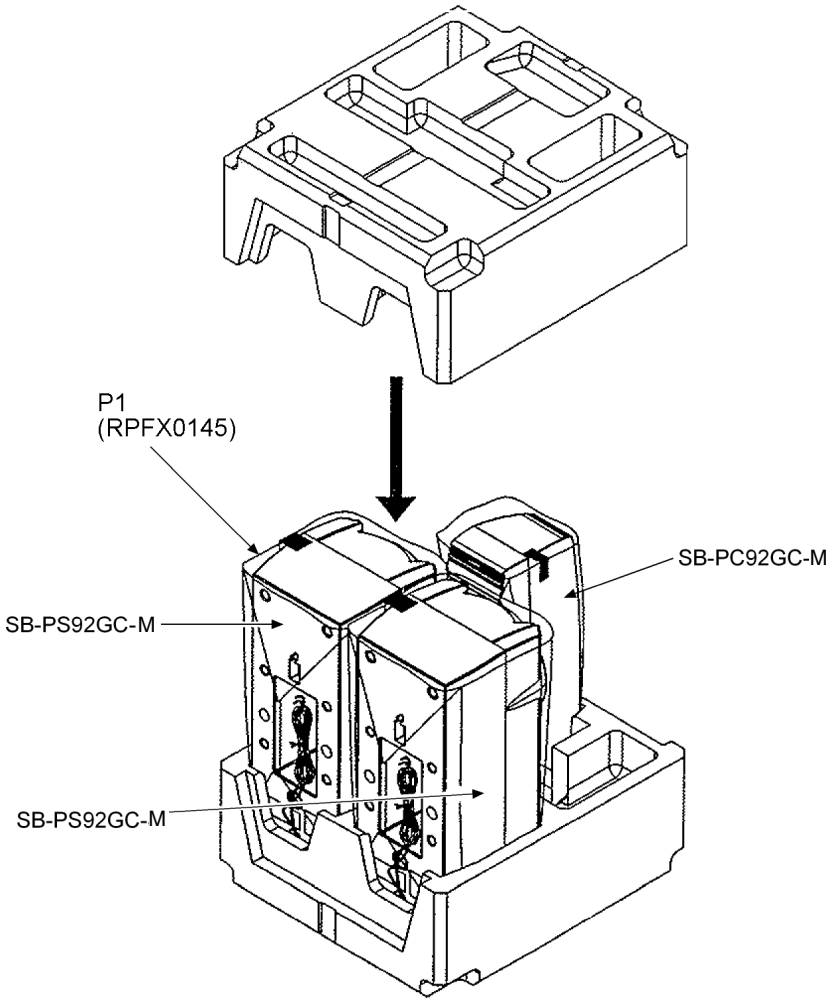
- [M] markings in the Remarks columns indicates parts supplied by **PAVCSG**.

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	M200-VK92S1G-40	FRONT CABINET ASS'Y	[M]
2	RYBX0107-S	REAR CABINET ASS'Y	[M]
3	RGNX0302-K	SPEC SHEET	[M]
4	XTB3+10GFJ	SCREW	[M]
5	XTB3+12GFJ	SCREW	[M]
6	XTB3+8GFJ	SCREW	[M]
7	RKA0072-KJ	LEG CUSHION	[M]
8	REEX0493	NETWORK ASS'Y	[M]
		CAPACITOR	
C1	ECEA1HAY1R8	1.8UF 50V	[M]
		PACKING MATERIAL	
P1	RPFX0145	MIRAMAT	[M]
		SPEAKERS	
SP1	EAST6PH08A6	TWEETER	[M]
SP2	L0AA08A00017	WOOFER	[M]

6 Packaging (SB-PT92GC-M)

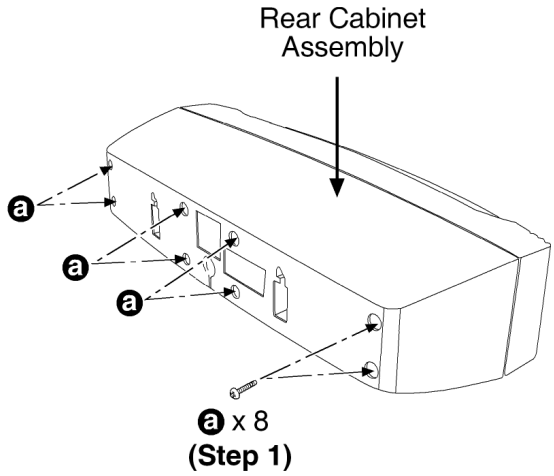
Note: The diagram below shows the packaging for SB-PT92GC-S.

SB-PT92GC-S consists of SB-PC92GC-S (X 1) and SB-PS92GC-S (X 2).

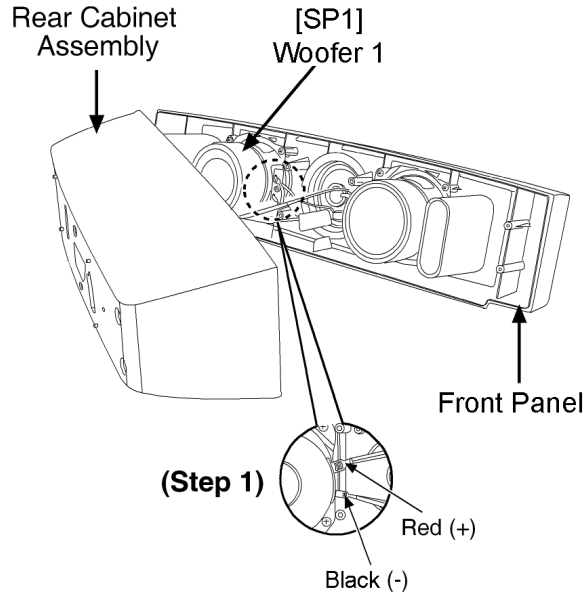


1 Disassembly Process CENTRAL(SC-TM850/950DIN, SC-TM900/1000DVD)

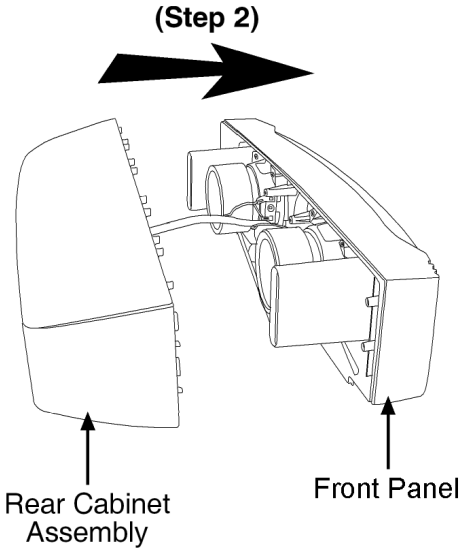
1.1. Disassembly of Front Panel



Step 1: Remove 8 screws from Rear Cabinet Assembly.



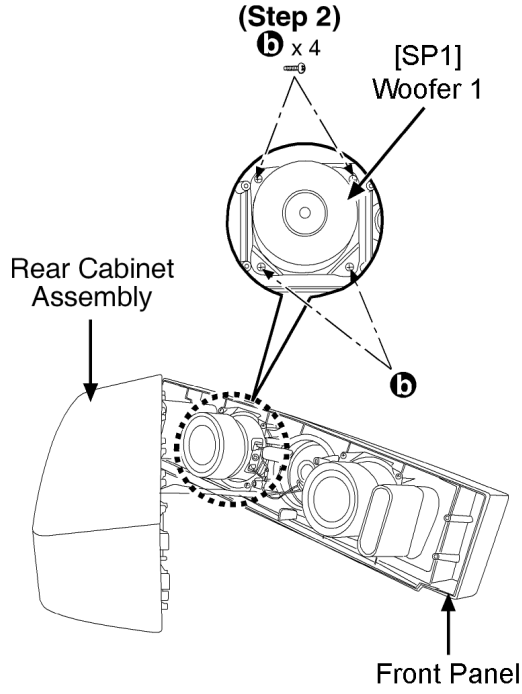
Step 1: Detach the (+) red and (-) black wires from Woofer 1.



Step 2: Pull Front Panel forward to detach from Rear Cabinet Assembly as arrow shown.

1.2. Disassembly of Woofer 1

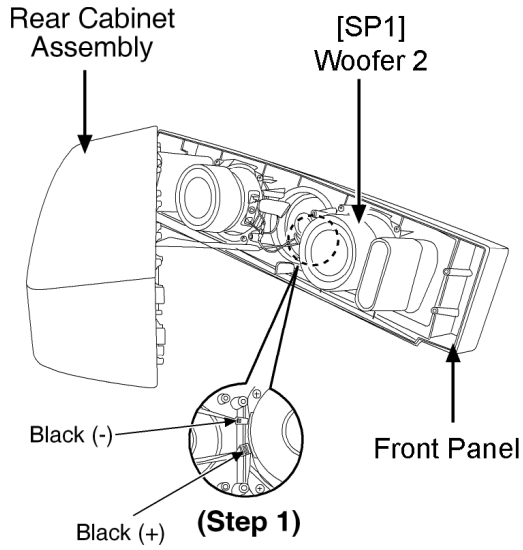
Follow (step 1) to (step 2) in Item 1.1.



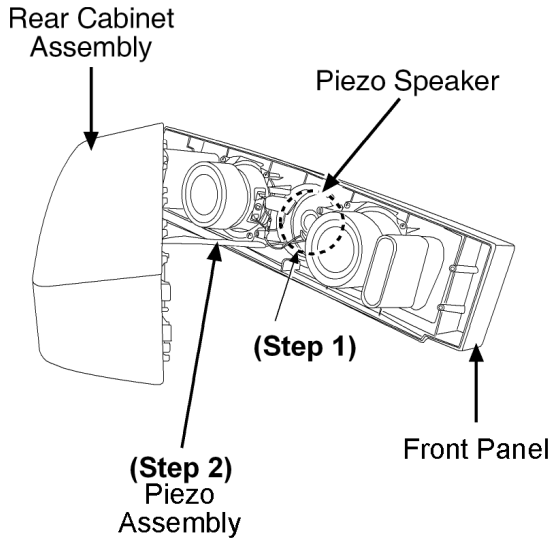
Step 2: Remove 4 screws from Woofer 1.

1.3. Disassembly of Woofer 2

Follow (step 1) to (step 2) in Item 1.1.

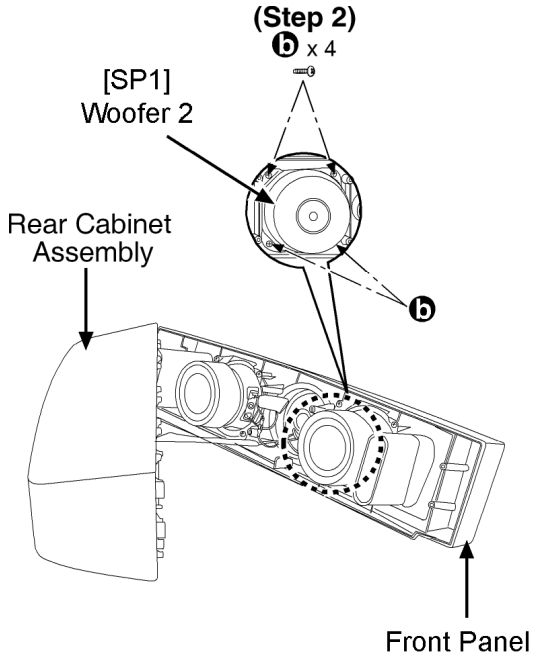


Step 1: Detach the (+) black and (-) black wires from Woofer 2.



Step 1: Remove the glue from Piezo Speaker.

Step 2: Disconnect the Piezo Assembly.



Step 2: Remove 4 screws from Woofer 2.

1.4. Disassembly of Piezo Speaker

Follow (step 1) to (step 2) in Item 1.1.

2 Connection of the Speaker Cables

- Be sure to connect speaker cables before connecting the AC power supply cord.
- The load impedance of any speaker used with this unit must be 4Ω.
- Be sure to connect the cable from the right speaker to the right terminal and the cable from the left speaker to the left terminal.

1. Twist and pull off the vinyl tip of the speaker cords. If the speaker cords do not have vinyl tips, connect them directly to the terminals. Make sure the bare ends of the wires are not unravelled.
2. Insert the wire to the rear panel of the unit and close the lever.

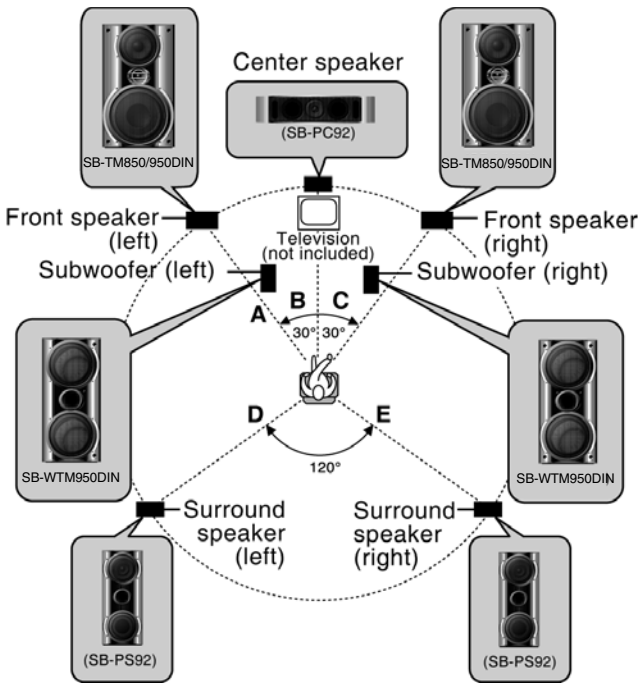
Notes :

- To prevent damage to circuitry, never short-circuit positive (+) and negative (-) speaker wires.
- Be sure to connect only positive (gray) wires to positive (+) terminals and negative (blue) wires to negative (-) terminals.

Placement

How you set up your speakers can affect the bass and the sound field. Note the following points:

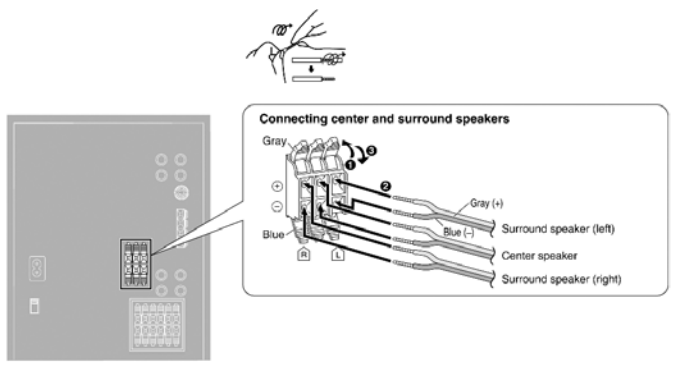
- Place speakers on flat secure bases.
- Placing speakers too close to floors, walls, and corners can result in excessive bass. Cover walls and windows with a thick curtain.
- The angles in the diagram are approximate.



Notes :

- Keep your speakers at least 10 mm away from the system for proper ventilation.
- You cannot take the front net off the speakers.

Connection



Use only the supplied speakers

- Using other speakers can damage the unit and sound quality will be negatively affected.
- Set the speakers up on an even surface to prevent them from falling. Take proper precautions to prevent the speakers from falling if you cannot set them up on an even surface.

Notes on speaker use

- You can damage your speakers and shorten their useful life if you play sound at high levels over extended periods.
- Reduce the volume in the following cases to avoid damage.
  - When playing distorted sound.
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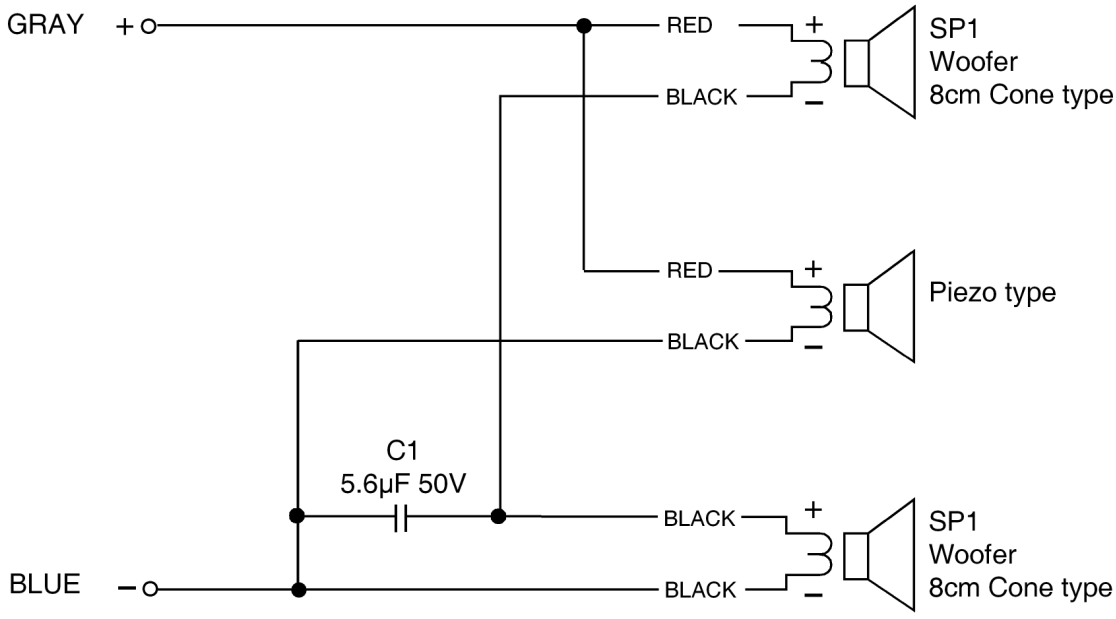
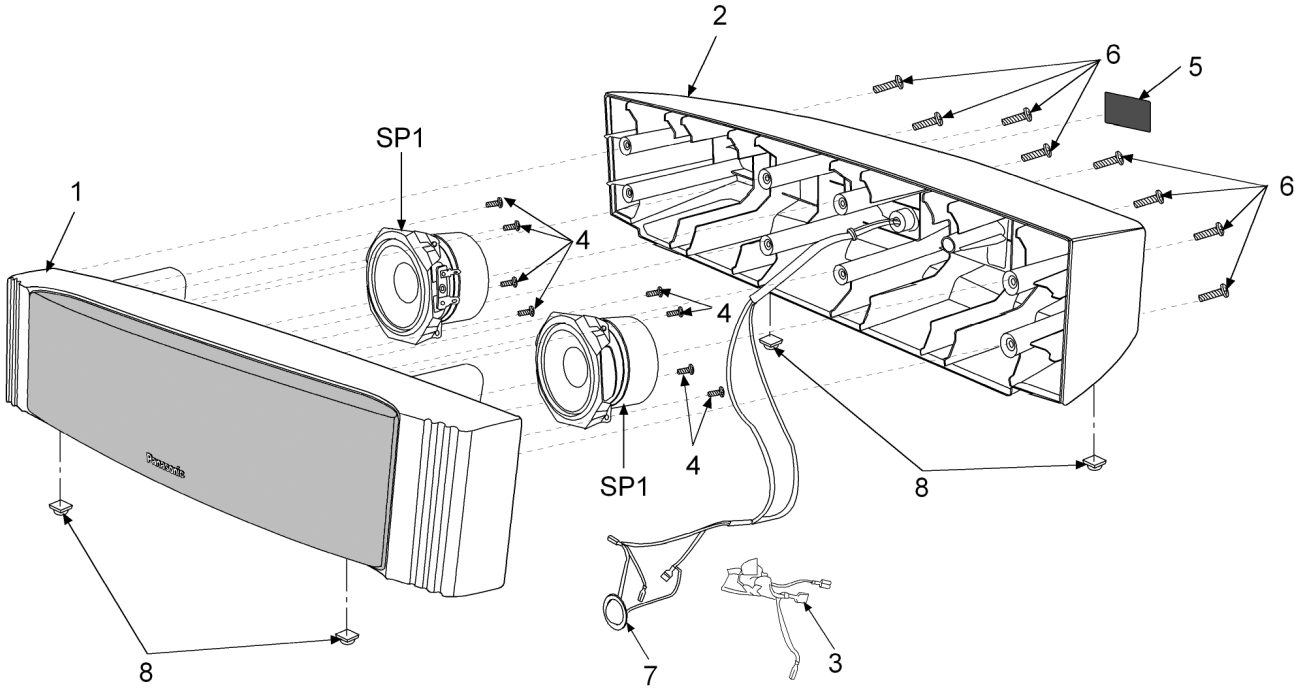
  - When adjusting the sound quality.
  - When turning the unit on or off.

Caution
- **Use the speakers only with the recommended system. Failure to do so may lead to damage to the amplifier and/or the speakers, and may result in the risk of fire. Consult a qualified service person if damage has occurred or if you experience a sudden change in performance.**
- **Do not attach these speakers to walls or ceilings.**

3 Connection of the Wiring Diagram



4 Cabinet Parts Location



5 Replacement Parts List

Notes :

- Important safety notice :

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

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

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	RYBX0106-S	FRONT CABINET ASS'Y	[M]
2	RYBX0105-S	REAR CABINET ASS'Y	[M]
3	REEX0491	SPEAKER CORD ASS'Y	[M]
4	XTB3+10GFJ	SCREW	[M]
5	RGNX0301-K	SPEC SHEET	[M]
6	XTB3+12GFJ	SCREW	[M]
7	RASX0004	PIEZZO ASS'Y	[M]
8	RKA0072-KJ	LEG CUSHION	[M]
		CAPACITOR	
C1	ECA1HAY5R6S	5.6uf 50V	[M]
		PACKING MATERIALS	
P1	RPNX0334	POLYFOAM	[M]
P2	RPFX0146	MIRAMAT	[M]
		SPEAKER	
SP1	L0AA08A00018	WOOFER	[M]

6 Packaging (SB-PT92GC-M)

Note: The diagram below shows the packaging for SB-PT92GC-S.

SB-PT92GC-S consists of SB-PC92GC-S (X 1) and SB-PS92GC-S (X 2).