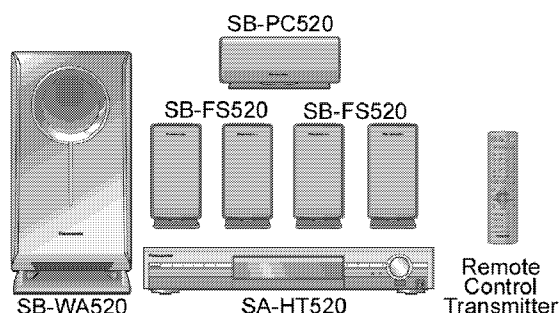


Service Manual

DVD Home Theater Sound System



SA-HT520E
SA-HT520EB
SA-HT520EG

Colour

(S)...Silver Type

Specification

■ Amplifier Section

RMS Output Power: Dolby Digital Mode

Front Ch

60 W per channel (4Ω), 1 kHz, 10% THD

Surround Ch

60 W per channel (4Ω), 1 kHz, 10% THD

Center Ch

60 W per channel (4Ω), 1 kHz, 10% THD

Subwoofer Ch

200 W per channel (4Ω), 100 Hz, 10% THD

Total RMS Dolby Digital Mode Power

500 W

DIN Output Power: Dolby Digital Mode

Front Ch

45 W per channel (4Ω), 1 kHz, 1% THD

Surround Ch

40 W per channel (4Ω), 1 kHz, 1% THD

Center Ch

40 W per channel (4Ω), 1 kHz, 1% THD

Subwoofer Ch

140 W per channel (4Ω), 100 Hz, 1% THD

Total DIN Dolby Digital Mode Power

350 W

■ FM/AM Tuner, Terminals Section

Preset station

FM 15 stations

AM/MW 15 stations

Frequency Modulation (FM)

Frequency Range

87.50-108.00 MHz (50-kHz step)

Sensitivity

1.5 μV (IHF)

S/N 26dB

1.2 μV

Antenna terminals

75Ω (unbalanced)

Amplitude Modulation (AM/MW)

Frequency Range

522-1629 kHz (9-kHz step)

AM Sensitivity S/N 20dB at 999 kHz

560 μV/m

Phone Jack

Terminal

Stereo, 3.5 mm jack

Mic Jack

Sensitivity

0.7 mV, 1.2 kΩ

Terminal

Mono, 6.3 mm jack (2 systems)

■ Disc Section

Disc played [8 cm or 12 cm]

1. DVD-RAM (DVD-VR compatible, JPEG formatted disc)

2. DVD-Audio

3. DVD-Video

4. DVD-R (DVD-Video compatible)

5. CD-Audio (CD-DA)

6. Video CD

7. SVCD (Conforming to IEC62107)

8. CD-R/RW (CD-DA, Video CD, SVCD, MP3, WMA, JPEG formatted disc)

9. MP3/WMA*1

- Compatible compression rate: system

MP3: between 32 kbps and 320 kbps

WMA: between 48 kbps and 320 kbps

10. JPEG*1

Panasonic

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- Exif Ver 2.1 JPEG Baseline files

- Picture resolution: between 320 x 240 and 6144 x 4096 pixels (sub sampling is 4:2:2 or 4:2:0)

11. HighMAT Level 2 (Audio and Image)

*1 The total combined maximum number of recognizable audio and picture contents and groups: 4000 audio and picture contents and 400 groups.

Pickup

Wavelength (DVD/CD) 662 nm/785 nm

Laser power CLASS 2/CLASS 3A

Audio output (Disc)

Number of channels 5.1 ch (FL, FR, C, SL, SR, SW)

Audio performance (measured at LINE OUT terminal)

1) Frequency response

- DVD (linear audio) 4 Hz - 22 kHz (48 kHz sampling)

4 Hz - 44 kHz (96 kHz sampling)

- DVD-Audio 4 Hz - 88 kHz (192 kHz sampling)

- CD-Audio 4 Hz - 20 kHz

2) S/N ratio

- CD-Audio 95 dB

3) Dynamic range

- DVD (linear audio) 95 dB

- CD-Audio 93 dB

4) Total harmonic distortion

- CD-Audio 0.005%

■ Video Section

Video System

Signal system PAL625/50, PAL525/60, NTSC

Composite video output

Output level 1 Vp-p (75 Ω)

Terminal Pin jack (1 system)

Scart jack (1 system)

S-video output

Y output level 1 Vp-p (75 Ω)

C output level PAL; 0.3 Vp-p (75 Ω)

NTSC; 0.286 Vp-p (75Ω)

Terminal S terminal (1 system)

Scart jack (1 system)

Component Video Output (480P/480I)

Y output level 1 Vp-p (75Ω)

PB output level 0.7 Vp-p (75Ω)

PR output level 0.7 Vp-p (75Ω)

Terminal Pin jack (Y: green, PB: blue, PR: red) (1 system)

RGB video output

R output level 0.7 Vp-p (75Ω)

G output level 0.7 Vp-p (75Ω)

B output level 0.7 Vp-p (75Ω)

Terminal Scart jack (1 system)

■ General

Power Supply (for E & EB) AC 230-240 V, 50 Hz

Power Supply (for EG) AC 230 V, 50 Hz

Power consumption 25 W (SA-HT520),
220 W (SB-WA520)

Dimensions (W x H x D) 430 x 68 x 359.2 mm

Mass 3.2 kg

Power consumption in standby mode (Subwoofer): 0.7 W

■ System

SC-HT520 (E) Main unit: SA-HT520 (E)

Satellite speakers: SB-HT520 (P)

Active subwoofer: SB-WA520 (EG)

SC-HT520 (EB) Main unit: SA-HT520 (EB)

Satellite speakers: SB-HT520 (P)

Active subwoofer: SB-WA520 (EB)

SC-HT520 (EG) Main unit: SA-HT520 (EG)

Satellite speakers: SB-HT520 (P)

Active subwoofer: SB-WA520 (EG)

Satellite speakers: SB-HT520 (P)

Front speakers: SB-FS520 (P) x 2

Surround speakers: SB-FS520 (P) x 2

Center speaker: SB-PC520 (P) x 1

Note:

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

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

WARNING

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

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1 Caution for AC Mains Lead

(For “EB” area code model only.)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.

A 5-ampere fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark  or the BSI mark  on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover, the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local dealer.

CAUTION!

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OFF SAFELY. THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted, please observe the wiring code as shown below.

If in any doubt please consult a qualified electrician.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral
Brown: Live

As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black or Blue.

The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL  OR COLOURED GREEN OR GREEN/YELLOW.

THIS PLUG IS NOT WATERPROOF—KEEP DRY.

Before use

Remove the connector cover.

How to replace the fuse

The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.

Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.

Figure A

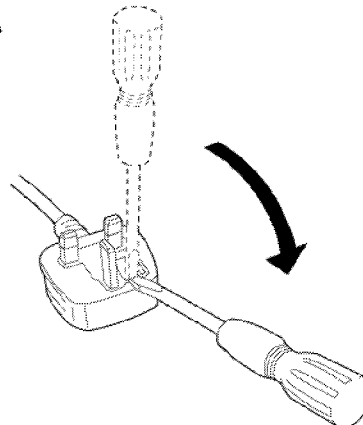
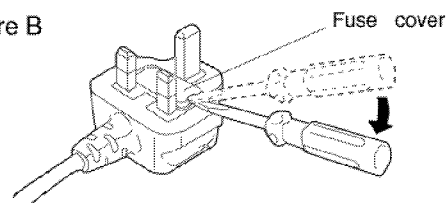


Figure B



2. Replace the fuse and close or attach the fuse cover.

Figure A

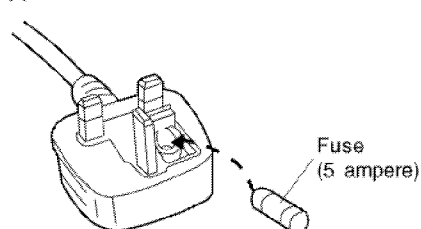
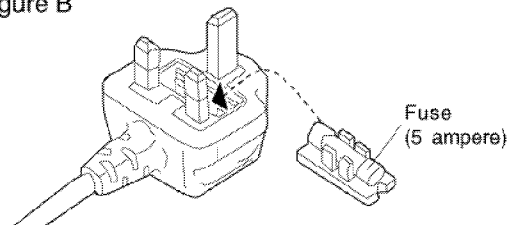


Figure B

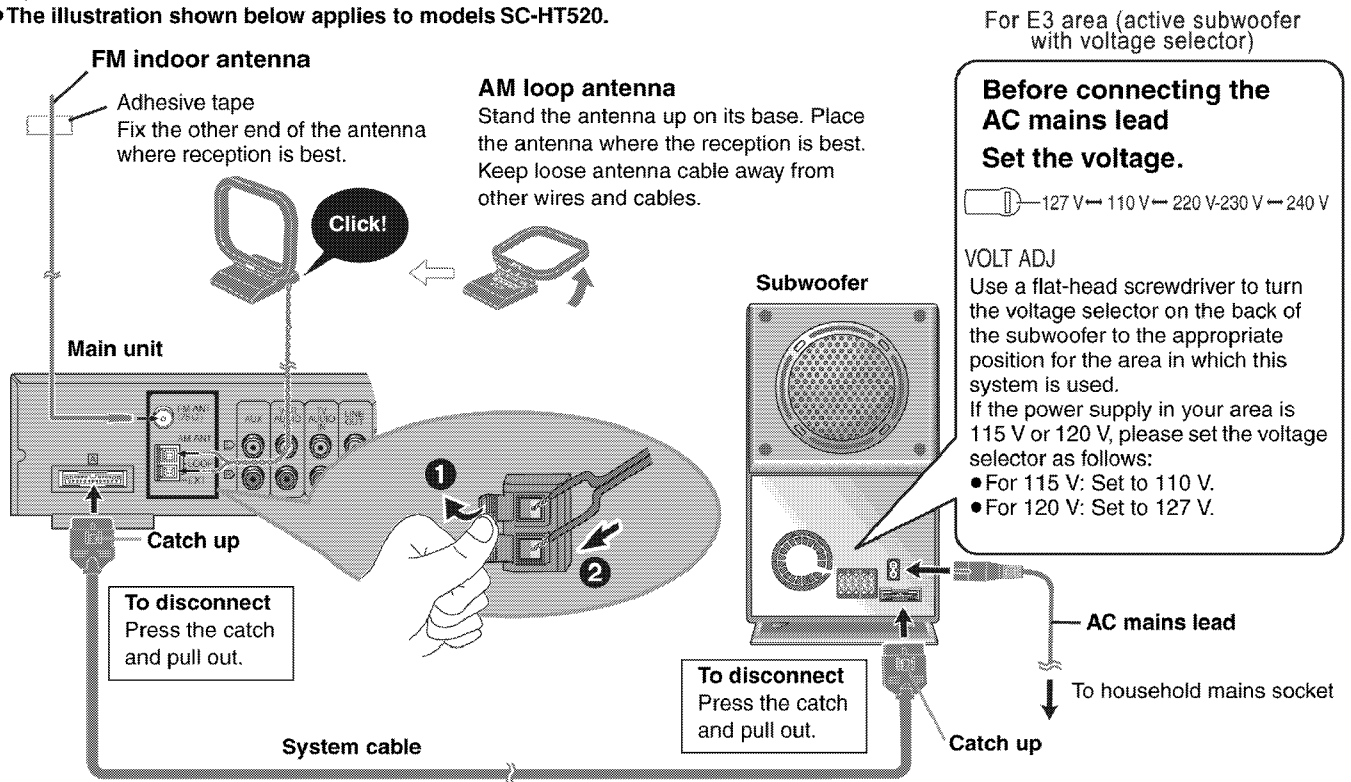


2 Use of Active Subwoofer

2.1. Checking Player when Active Subwoofer is Used

1. This unit uses the active subwoofer to supply the power of the component, and the active subwoofer should be connected to the component to check operational conditions of the component.

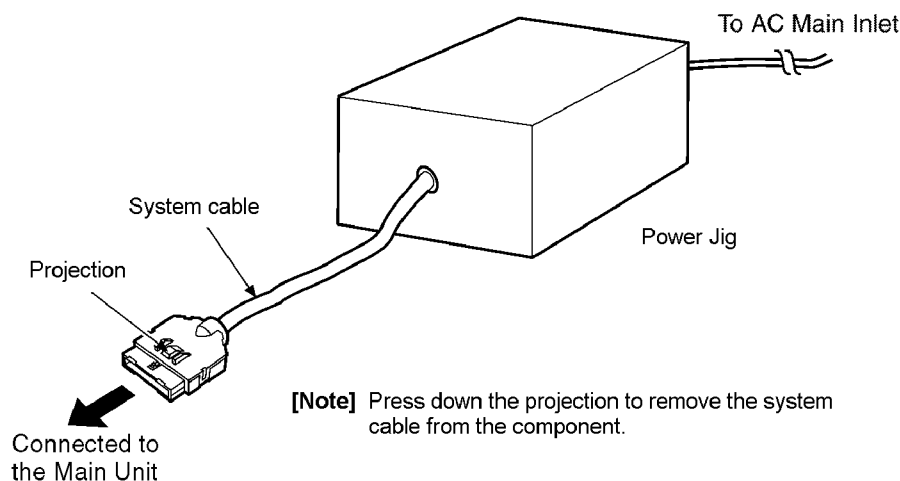
- Connect the AC mains lead after all other connections are complete.
- Optional antenna connections
- The illustration shown below applies to models SC-HT520.



Conserving power

The main unit consumes a small amount of power, even when it is turned off (For the United Kingdom, Continental Europe, Russia, Australia and N.Z.: approx. 0.7 W or for Southeast Asia, the Middle East, South Africa, Saudi Arabia and Kuwait: approx. 0.9 W). To save power when the unit is not to be used for a long time, unplug it from the household mains socket. You will need to reset some memory items after plugging in the unit.

2. If the active subwoofer is not available during time of repair to the unit, the following equipment could be used.



Jig product number

RFKZ0182 (110V , 127V, 220V, 230V - 240V for with voltage selector overseas domestic use).

3 Before Repair and Adjustment

Disconnect AC power, discharge Power Supply Capacitors C2080 through a 10 Ω , 10 W 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 230V-240V, 50Hz in NO SIGNAL mode should be ~850 mA .

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 (FOR ACTIVE SUBWOOFER)

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

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

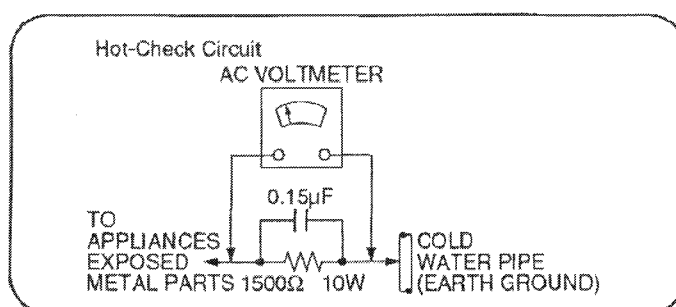


Fig. 1

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

5 Handling the Lead Solder

5.1. About lead free solder (PbF)

Distinction of PbF P.C.B. :

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

Caution:

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

6 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.

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

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by Δ 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.

8 Cautions to Be Taken When Handling Optical Pickup

- The laser diode used inside the optical pickup could be destroyed due to static electricity (potential difference is caused by electrostatic load discharged from clothes and human body). Handle the parts carefully to avoid electrostatic destruction during repair & during replacement.

8.1. Handling Optical Pickup

1. Do not cause any strong impact on optical pickup as the unit structurally uses an extremely precise technology.
2. Short-circuit the flexible cable of optical pickup removed 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)

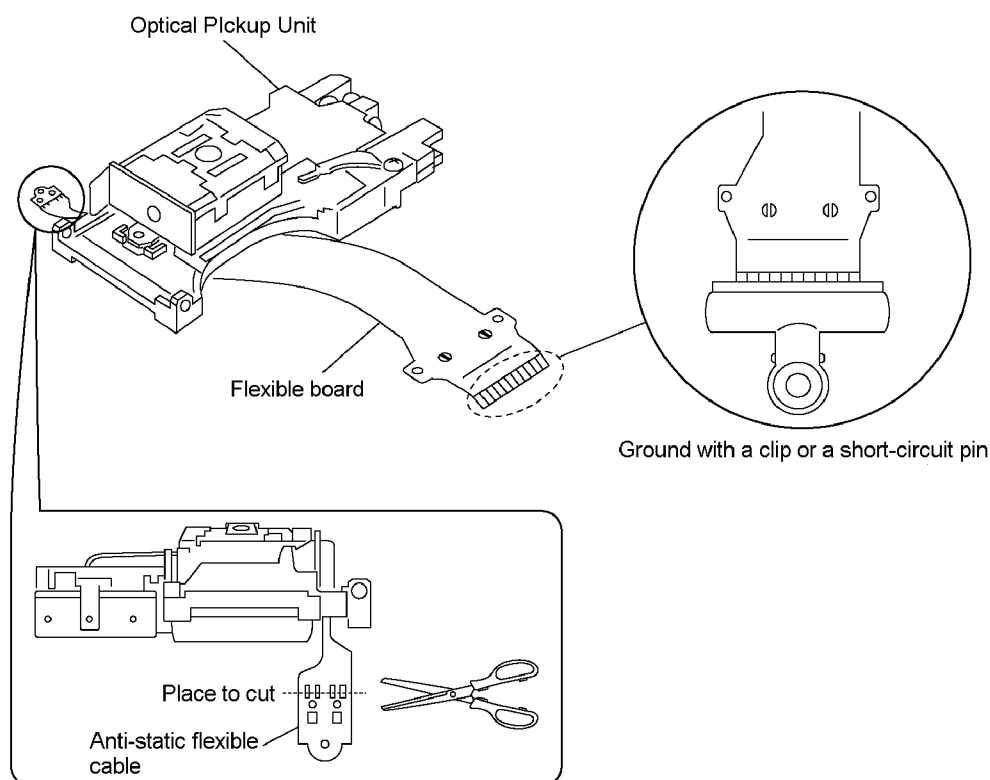
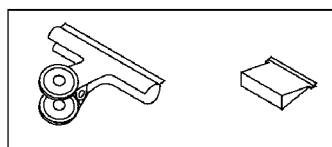


Fig. 8-1



Clip or shorting pin

Fig. 8-2

8.2. Cautions to Be Taken During Replacement of Optical Pickup

Supplied optical pickup is equipped with a short clip found at the end of flexible cable in order to prevent electrostatic destruction of laser diode. Before connection, remove the short clip, and check that the short land is opened (remove solder if the part is short-circuited). Also ensure human body is properly ground (Refer Section 8.3)

8.3. Grounding for Preventing Electrostatic Destruction

1. Human body grounding

Use an anti-static wrist strap to release static electricity accumulated in your body. (Refer to Fig. 8-3)

2. Workplace grounding

Place a conductive material (conductive sheet) or iron board where optical pickup is placed. (Refer to Fig. 8-3)

Note:

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

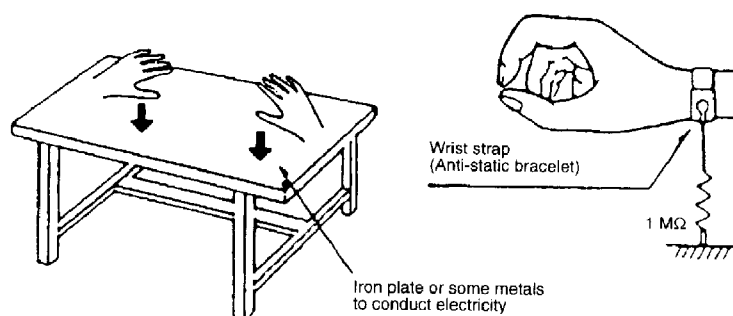


Fig. 8-3

9 Precaution of Laser Diode

CAUTION :

This product utilizes a class 1 laser. Invisible laser radiation is emitted from the optical pick up lens.

When the unit is turned on:

Wavelength : 662nm/785nm

Maximum output radiation power from pick up : 100μW/VDE

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.

ACHTUNG :

Dieses Produkt enthält eine Laserdiode. Im eingeschalteten Zustand wird unsichtbare Laserstrahlung von der Lasereinheit abgestrahlt.

Wellenlänge : 662nm/785nm

Maximale Strahlungsleistung der Lasereinheit : 100μW/VDE

Die Strahlung an der Lasereinheit ist ungefährlich, wenn folgende Punkte beachtet werden:

1. Die Lasereinheit nicht zerlegen, da die Strahlung an der freigelegten Laserdiode gefährlich ist.
2. Den werkseitig justierten Einstellregler der Lasereinheit nicht verstellen.
3. Nicht mit optischen Instrumenten in die Fokussierlinse blicken.
4. Nicht über längere Zeit in die Fokussierlinse blicken.

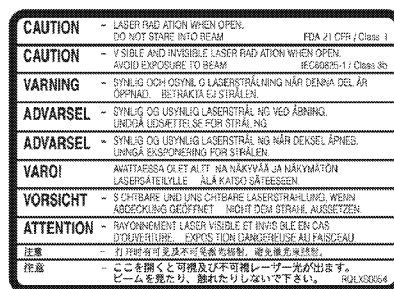
ADVARSEL: I dette a apparat anvendes laser.

CAUTION!

THIS PRODUCT UTILIZES A LASER.

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

■ Use of Caution Labels



(Inside of product)
(Produktets innsida)
(Tuotteen sisällä)

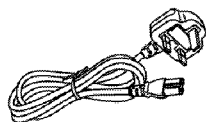


**LUOKAN 1 LASERLAITE
KLASS 1 LASER APPARAT**

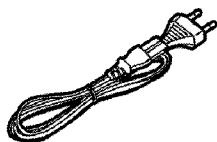


(Back of product)

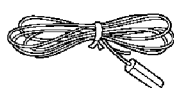
10 Accessories



AC mains lead (for the United Kingdom)



AC mains lead (for Continental Europe)



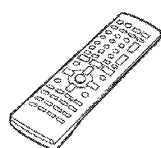
FM indoor antenna



AM loop antenna



Video cable



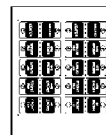
Remote control



Speaker cables



System cable



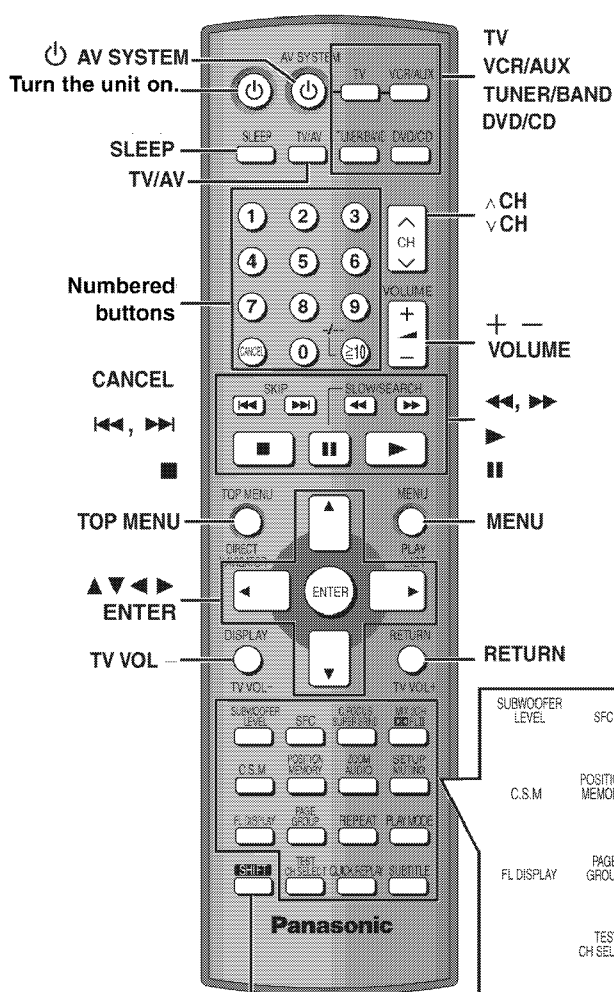
Sheet of speaker-cable stickers



Antenna plug adaptor (for the United Kingdom only)

11 Remote Control Reference

Control reference guide



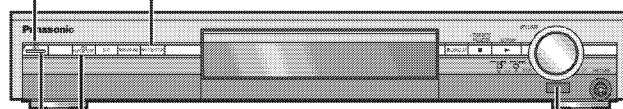
To use functions labeled in orange:
While pressing [SHIFT], press the corresponding button.

Standby/on indicator

When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.

Source select button [INPUT SELECTOR] (22)

DVD/CD → FM → AM → TV → VCR → AUX
→ Return to DVD/CD



RDS, Progressive button (13, 23)

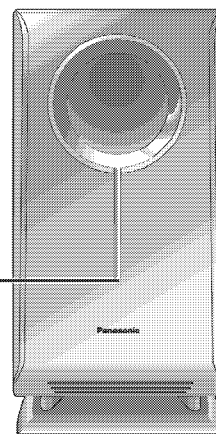
Standby/on switch [P/I]

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.

Remote control signal sensor

AC supply indicator (AC IN)

This indicator lights when the unit is connected to the AC mains supply.



12 Disc information

Disc	Logo	Indication in these operating instructions	Remarks
DVD-RAM		RAM	Recorded using Version 1.1 of the Video Recording Format (a unified video recording standard). • Recorded with DVD video recorders, DVD video cameras, personal computers, etc. • Remove discs from their cartridges before use.
		JPEG	Recorded using the DCF (Design rule for Camera File system) standard. • Recorded with Panasonic DVD-Video recorders • To play JPEG files, select "Play as Data Disc" in Other Menu (→ page 11).
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 (→ page 11).
DVD-Video		DVD-V	—
DVD-R		DVD-V	Panasonic DVD-R recorded and finalized* on a Panasonic DVD-Video recorders or DVD-Video cameras are played as DVD-Video on this unit.
Video CD		VCD	—
SVCD			Conforming to IEC62107
CD		CD	This unit is compatible with HDCD. HDCD-encoded CDs sound better because they are encoded with 20 bits, as compared with 16 bits for all other CDs. • During HDCD play, "HDCD" lights on the unit's display.
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 (→ page 11).

*A process that allows play on compatible equipment.

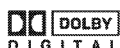
• It may not be possible to play the above discs in all cases due to the type of disc or condition of the recording.

■ Discs that cannot be played

DVD-ROM, CD-ROM, CDV, CD-G, DVD+R, +RW, DVD-RW, 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.

■ Audio format of DVDs

You can play discs with these symbols.



■ To prevent damage

- Do not;
 - load more than one disc per tray.
 - touch the drawer or the carousel while they are in motion
 - rotate the carousel by hand.
 - close the drawer by hand.

■ To clean discs

DVD-A **DVD-V** **VCD** **CD**

Wipe with a damp cloth and then wipe dry.

RAM **DVD-R**

- Clean with an optional DVD-RAM/PD disc cleaner (LF-K200DCA1, where available).
- Never use cloths or cleaners for CDs etc.



■ 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.



HighMAT™ and the HighMAT logo are either trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.

Using navigation menus



Playing data discs WMA MP3 JPEG CD (CD-text only)

WMA MP3 JPEG

You can play JPEG files on DVD-RAM or play HighMAT discs without using the HighMAT function (→ page 11, "Play as Data Disc" in Other Menu).

■ Using playback menus (except JPEG files on DVD-RAM)

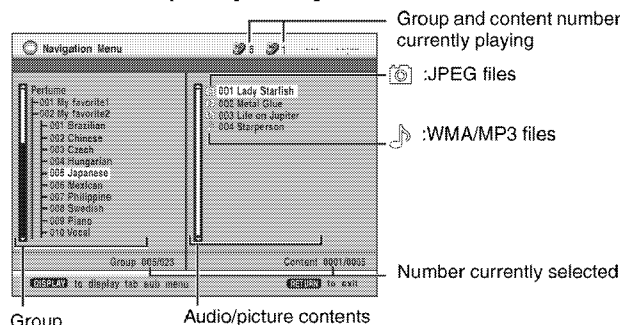
While the menu is displayed

Press [▲ ▼] to select "All", "Audio", or "Picture" and press [ENTER].

- To display/exit the screen
Press [TOP MENU].

■ Using navigation menus

- 1 Press [MENU].
- 2 Press [▲ ▼◀ ▶] to select the group or audio/picture content and press [ENTER].



- To enjoy listening to WMA/MP3 contents while showing a JPEG image on the screen
Select a JPEG file first, and then select tracks.
(The opposite order is not effective.)

- To exit the screen
Press [MENU].

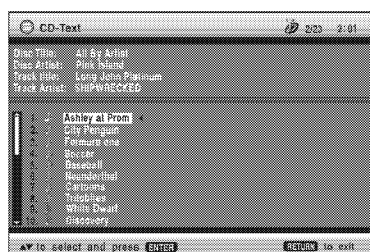
To use the contents screen to find a track

CD (CD-text only)

While the menu is displayed

Press [▲ ▼] to move through the tracks and press [ENTER].

- Press [ANGLE/PAGE] to skip 10 lines at a time.



Using the submenu WMA MP3 JPEG

- 1 While the menu is displayed, press [DISPLAY]

✓Multi	Groups and content
List	Contents only
Tree	Groups only
Thumbnail	Thumbnail images JPEG
Next group	To go to next groups WMA MP3
Previous group	To go to previous groups WMA MP3
All	WMA/MP3 and JPEG files
Audio	WMA/MP3 files only
Picture	JPEG files only
Help display	To switch between guide messages and the elapsed play time indicator
Find	To search by content or group title (→ see below)

- 2 Press [▲ ▼] to select the submenu and press [ENTER].

■ Searching by content or group title WMA MP3 JPEG

Place the cursor on the group title to search a group, or place the cursor on the content title to search contents.

- 1 Select "Find" (→ see above).



- 2 Press [▲ ▼] to select a character and press [ENTER].

- Repeat to enter another characters.
- Lower case is also searched.
- Press [◀▶▶▶] to skip between A, E, I, O and U.
- Press [◀] to erase a character.
- Erase the asterisk (*) to search for the titles starting with that character.

- 3 Press [▶] to select "Find" and press [ENTER].

The search result screen appears.

- 4 Press [▲ ▼] to select the content or group and press [ENTER].

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 is compatible with 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.

Naming folders and files

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).

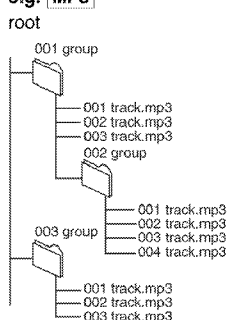
Files must have the extension:

"WMA" or ".wma"

"MP3" or ".mp3"

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

e.g. MP3



WMA

- You cannot play WMA files that are copy protected.

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 associated sound.

Maintenance

Clean this unit with a soft, dry cloth.

- Never use alcohol, paint thinner or benzene to clean this unit.
- Before using chemically treated cloth, read the instructions that came with the cloth carefully.

Language code list

Abkhazian:	6566	Chinese:	9072	Hausa:	7265	Lithuanian:	7684	Romanian:	8279	Telugu:	8469
Afar:	6565	Corsican:	6779	Hebrew:	7387	Macedonian:	7775	Russian:	8285	Thai:	8472
Afrikaans:	6570	Croatian:	7282	Hindi:	7273	Malagasy:	7771	Samoan:	8377	Tibetan:	6679
Albanian:	8381	Czech:	6783	Hungarian:	7285	Malay:	7783	Sanskrit:	8365	Tigrinya:	8473
Ameharic:	6577	Danish:	6865	Icelandic:	7383	Malayalam:	7776	Scots Gaelic:	7168	Tonga:	8479
Arabic:	6582	Dutch:	7876	Indonesian:	7378	Maltese:	7784	Serbian:	8382	Turkish:	8482
Armenian:	7289	English:	6978	Interlingua:	7365	Maori:	7773	Serbo-Croatian:	8372	Turkmen:	8475
Assamese:	6583	Esperanto:	6979	Irish:	7165	Marathi:	7782	Shona:	8378	Twi:	8487
Aymara:	6588	Estonian:	6984	Italian:	7384	Moldavian:	7779	Sindhi:	8368	Ukrainian:	8575
Azerbaijani:	6590	Faroese:	7079	Japanese:	7465	Mongolian:	7778	Singhalese:	8373	Urdu:	8582
Bashkir:	6665	Fiji:	7074	Javanese:	7487	Nauru:	7865	Slovak:	8375	Uzbek:	8590
Basque:	6985	Finnish:	7073	Kannada:	7578	Nepali:	7869	Slovenian:	8376	Vietnamese:	8673
Bengali; Bangla:	6678	French:	7082	Kashmiri:	7583	Norwegian:	7879	Somali:	8379	Volapük:	8679
Bhutani:	6890	Frisian:	7089	Kazakh:	7575	Oriya:	7982	Spanish:	6983	Welsh:	6789
Bihari:	6672	Galician:	7176	Kirghiz:	7589	Pashto, Pushto:	8083	Sundanese:	8385	Wolof:	8779
Breton:	6682	Georgian:	7565	Korean:	7579	Persian:	7065	Swahili:	8387	Xhosa:	8872
Bulgarian:	6671	German:	6869	Kurdish:	7585	Polish:	8076	Swedish:	8386	Yiddish:	7473
Burmese:	7789	Greek:	6976	Laotian:	7679	Portuguese:	8084	Tagalog:	8476	Yoruba:	8979
Byelorussian:	6669	Greenlandic:	7576	Latin:	7665	Punjabi:	8065	Tajik:	8471	Zulu:	9085
Cambodian:	7577	Guarani:	7178	Latvian, Lettish:	7686	Quechua:	8185	Tamil:	8465		
Catalan:	6765	Gujarati:	7185	Lingala:	7678	Rhaeto-Romance:	8277	Tatar:	8484		

13 About HighMAT

13.1. What is HighMAT?

This word combines the abbreviations of Matsushita Electric Industrial Co. Ltd. and High Performance Media Access Technology, and is a trademark of Microsoft Corporation. The products with the HighMAT logo shown below are made according to the HighMAT standard.

HighMAT is a format that allows users to save digital contents such as photographs, audio, and images on a CD. This gives consistency in the way of reading data when general consumer products (such as DVD players) and PCs are used, and thus, it is easy to operate for the user.

13.2. Why use HighMAT?

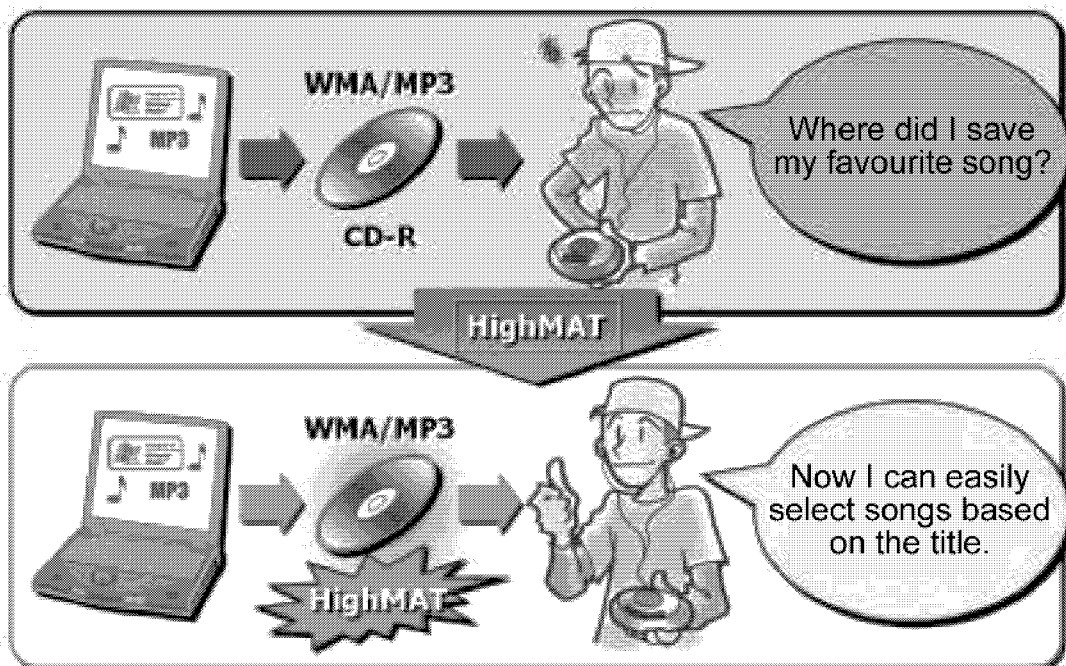
Up to now, there was no harmonized standard from playing digital content stored in CD-ROM formats (including CD-R) on consumer products like DVD players. Therefore, we used to have problems such as follow:

- There was no common play list or attached information on contents, which is called metadata.
- The data compression method differed according to the equipment.
- As the number of CD-ROMs recorded increased retrieved the contents became more difficult.
- Because display and operation methods were different depending on the equipment, the play order of the content on the same disc could change.

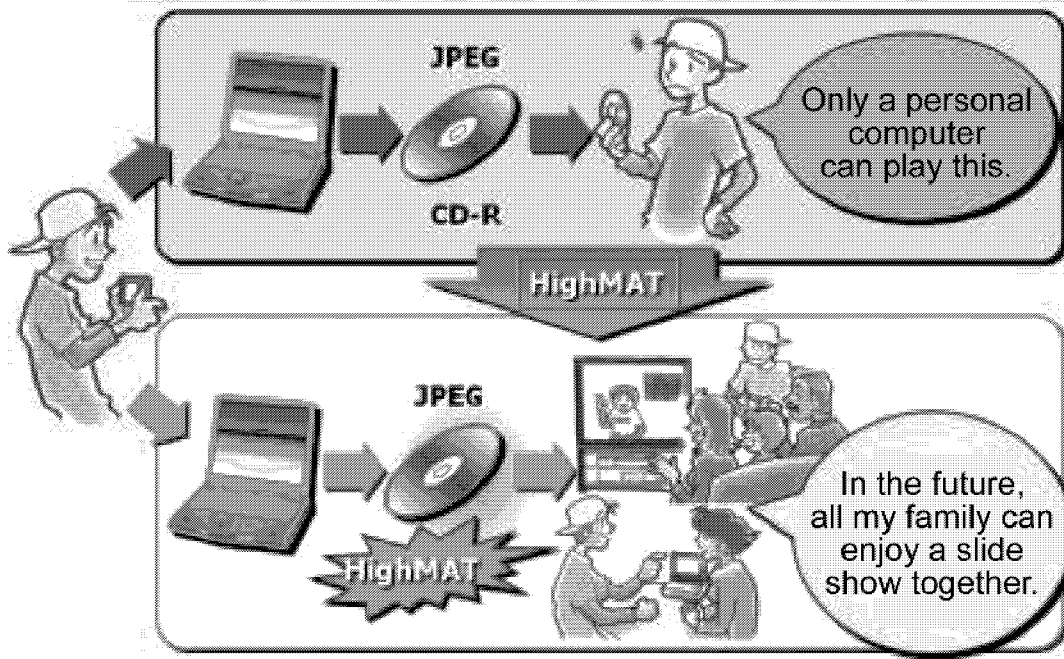
13.3. The advantages of using HighMAT

Applying the HighMAT standard will solve the following problems and will improve usability.

- It will create a common user interface for both PC and consumer products.



- Regardless of the types of consumer products, such as DVD players, portable CD players, car stereos, and micro computers, a consistent way to pay for digital content will be created and it will make it easier to retrieve data.

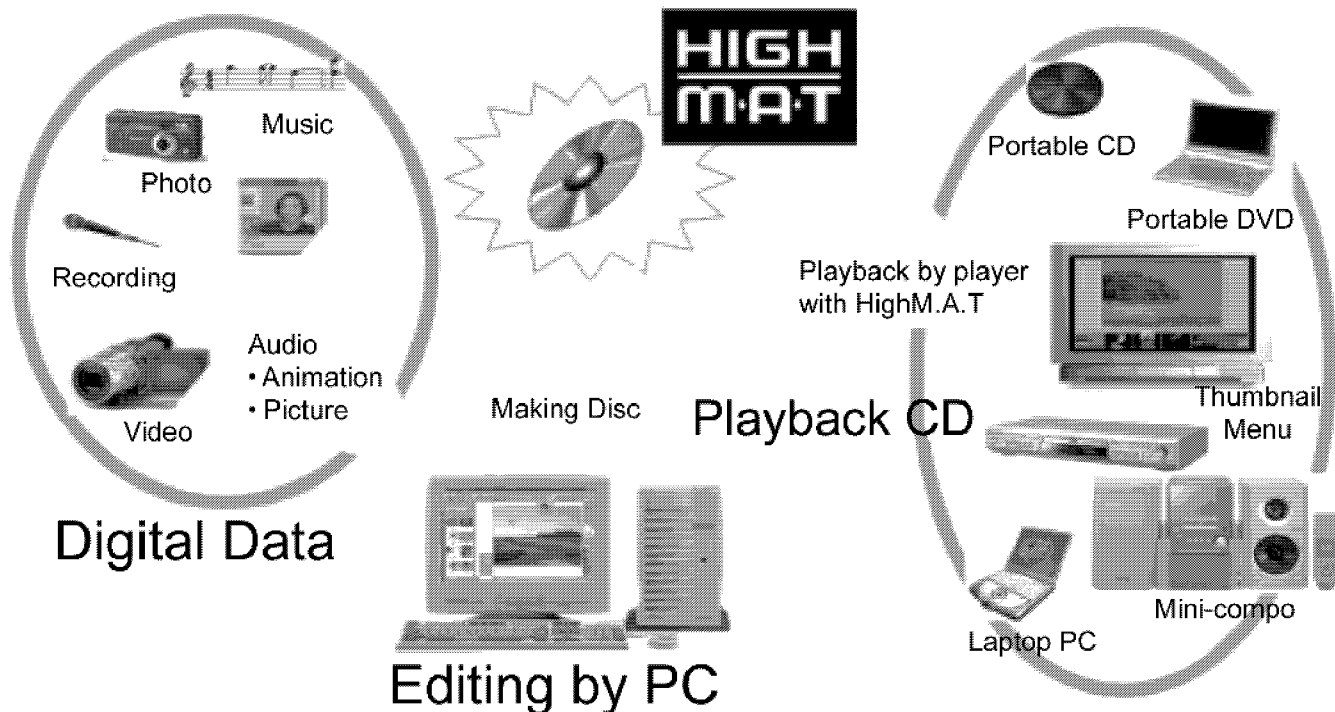


- You can also play digital content on the disc, which was created in accordance with the HighMAT format with a conventional CD-ROM player.

13.4. Outline of the HighMAT standard

1. Recording medium

- CD-R/CD-RW
- Supports ISO 9660 Level Expanded Joliet
- For multiple session



2. Support data format

- Level 1 player: WMA, MP3 (MPEG-1 Audio Layer 3)
- Level 2 player: WMA, MP3 (MPEG-1 Audio Layer 3), JPEG
- Level 3 player: WMA, MP3 (MPEG-1 Audio Layer 3), JPEG, WMV, MPEG4 (optional)

3. Limitation of data format

- WMA, MP3 (MPEG-1 Audio Layer 3) 64 kbps - 160.999 kbps, 44.1 KHz, stereo, fixed bit rate/ variable bit rate.
- WMA, V2 and above, excluding Lossless/Voice/Pro
- JPEG: Max 6M pixel, Maximum file size: 3 MB

4. Limitations regarding the number of files on the media, etc.

- Total number of audio files: Maximum 450
- Total number of still picture files: Maximum 999
- Total number of animation files: Maximum 200
- Total number of directories: Maximum 400
- Length of a file name: Maximum 108 characters (Unicode)
- Total number of play lists: Maximum 200
- Number of contents in the playlist: Maximum 900

5. Composition of HighMAT disc

- Menu: Classified for the navigation of the HighMAT digital contents. When menu selected, its submenu or the play list will be displayed.
- Play list: A list in which one or more digital contents are arranged in order
- Group: Sub-divided group of a play list.
- Digital Contents: Audio, still picture, and animation data.

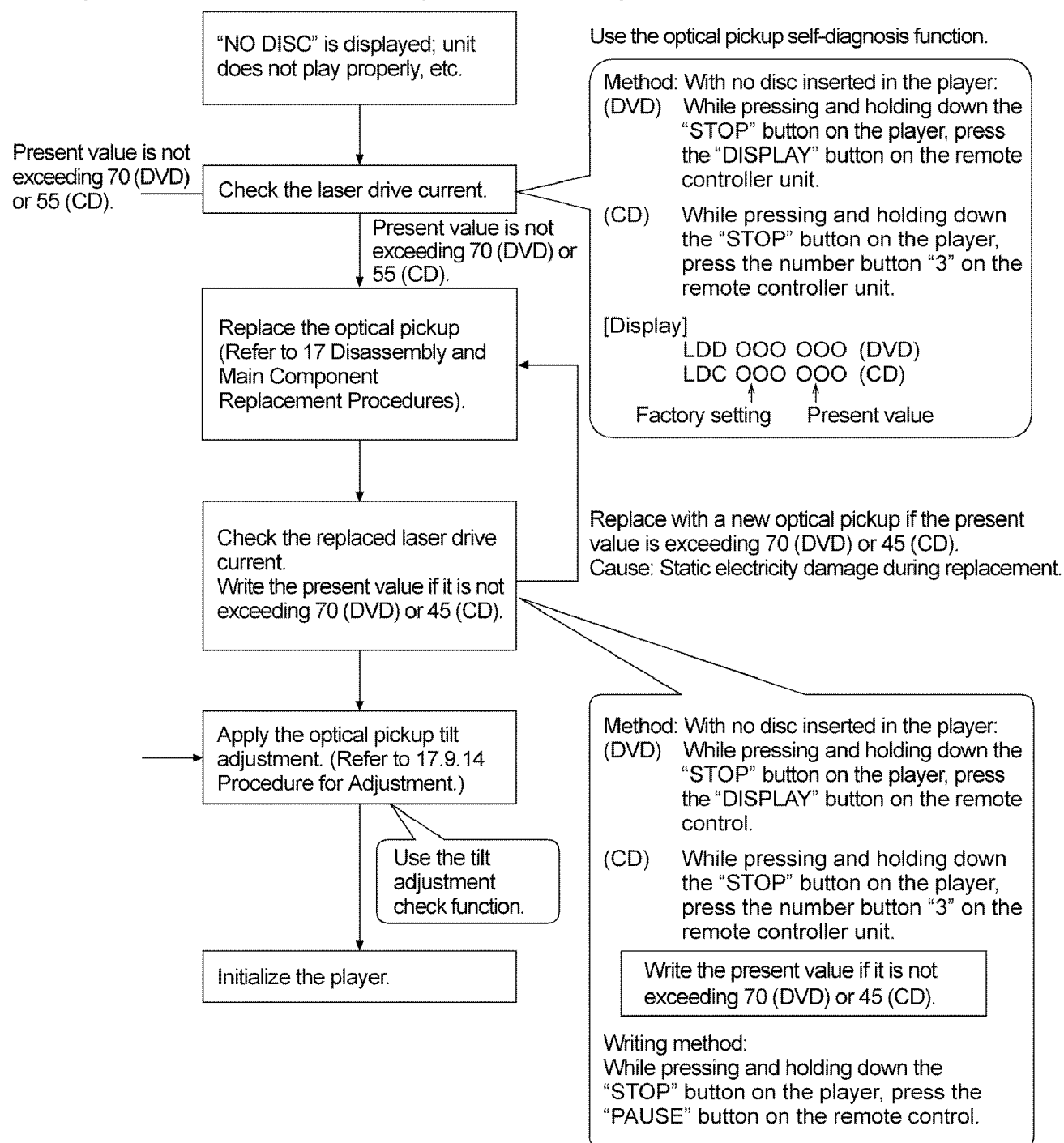
14 Optical Pickup Self-Diagnosis and Replacement Procedure

14.1. Self-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 70 (DVD) or 55 (CD).

Note:

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



14.2. Cautions to Be Taken During Replacement of Optical Pickup and Spindle Motor

Before replacing the optical pickup and spindle motor, check the total usage time respectively. Follow the checking method described as below.

Item	Status and Key Function	Display
Checking DVD, CD laser usage time	With the unit stopped and no disc inserted, press the ■ button on the player and the ▲ button on the remote controller unit.	T1_xxxx_yyyy xxxx(DVD), yyyy(CD): total time is displayed with a four-digit number by the ten hours.
Checking spindle motor usage time	With the unit stopped and no disc inserted, press the ■ button on the player and the ▶ button on the remote controller unit.	T2_xxxx xxxx: total time is displayed with a four-digit number by the ten hours.
Resetting DVD, CD laser usage time	While the DVD and CD laser usage times are displayed, press the ■ button on the player and the ▼ button on the remote controller unit.	T1_0000_0000
Resetting spindle motor usage time	While the spindle motor usage time is displayed, press the ■ button on the player and the ◀ button on the remote controller unit.	T2_0000

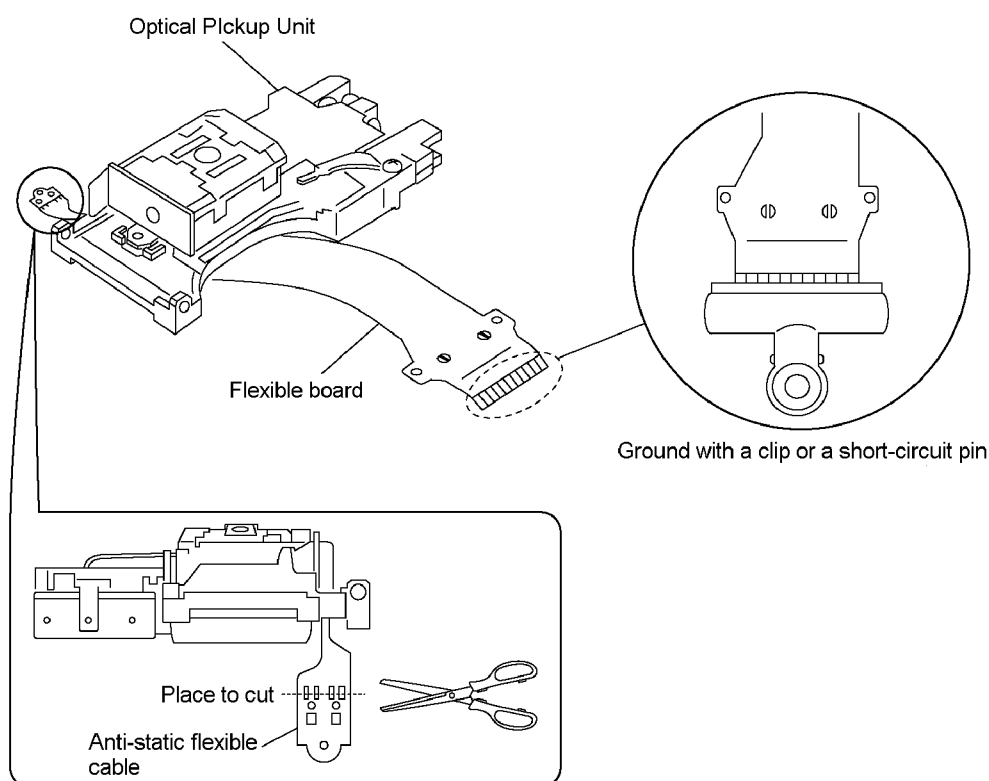
14.2.1. Cautions to be taken during replacement of optical pickup

Optical pickup could be damaged due to the static electricity discharged from human body. Wear proper protection gear against static electricity during optical pickup and its peripheral repair. (Refer to "Cautions to Be Taken When Handling Optical Pickup".)

- Do not touch laser diode, actuator and their peripherals.
- Do not check laser diode with a tester and such. (The tester will be destroyed.)
- For short-circuiting or removing laser diode, the use of an anti-static soldering iron is recommended. (Recommended model: HAKKO ESD product)
- Solder the land of the flexible cable in the optical pickup.

Note:

If an anti-static soldering iron is not available, short-circuit the terminal surface of the flexible cable and then the land using a clip or equivalent device.



15 Self-Diagnosis Function

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

15.1. Automatic Displayed Error Codes

15.1.1. Automatic Display Function

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

F61: Automatically displayed on the LCD of the player.

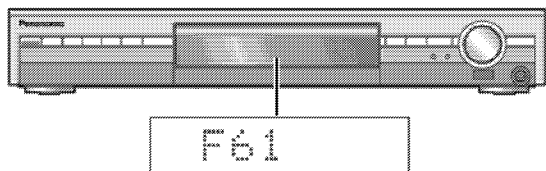


Fig. 15-1

15.1.2. 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.

15.1.3. Description of Error Code

15.1.3.1. 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.

15.2. Memorized Error Codes

15.2.1. 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 F_SKIP **▶▶** button for at least two seconds in order to display "T_____".
 3. Press the **■** button. If a memorized error is detected, the result of self diagnosis is displayed. (Ex.: T H15) (See table below)
- If several errors are detected, press the **■** button to display each.

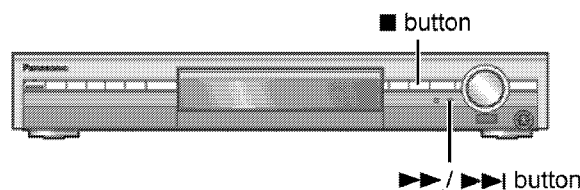


Fig. 15-2

15.2.2. 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".

15.2.3. Deleting Details of Self Diagnosis

- After repair, press and hold down the **■** button for at least five seconds, "T___ --- _" appears for a second and then "T_____" appears. (Deleting the details of self diagnosis)
- After repairing errors, be sure to delete the details of self diagnosis.

Error Code	State, Conditon	Cause, Troubleshooting
H15	The disc tray cannot be opened: it closes spontaneously.	Disc tray open/close detection switch (S901, S902) failure. (Check and replace)
H16	The disc tray cannot be closed: it opens spontaneously.	

15.3. 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, 15.4. DVD Error Code Description)
	5	Tilt adjustment
	6	Area number and broadcasting system check
	7	MICRO - P & Firmware Version.
	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.

15.4. DVD/CD Self-Diagnosis Error Code Description

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.
ODC system		
F600	Unable to obtain control information due to form recovery failure	Operation stops because navigation data cannot be obtained due to form recovery system failure.
F601	Illegal sector ID requested	Operation stops because access of illegal ID data is requested.
F602	Unable to obtain LEAD IN due to form recovery failure	Unable to read LEAD IN data
F603	Unable to obtain KEY DET due to form recovery failure	Unable to obtain CSS data
F610	ODC failure	No permission of command issue
F611	No CRC OK appearing for a certain time	Unable to obtain seek address at CD system
F612	No CRC OK appearing for a certain time	Unable to obtain ID data at DVD system
Disc Code		
F103	Illegal highlight position	Disc standard is possibly illegal when highlight is displayed.
IIC Error		
F4FF	Forced initialization failure (Time out)	
Micro-computer Error		
F700	MBX overflow	When replying a message to Disc Manager
F701	Unable to complete a message command	A message is issued before replying to Disc Manager.
F702	Change in a message command	A message is issued before replying to Disc Manager.
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	FROM altered	
F894	EEPROM failure	
F8A0	Unsuitable message command	When transmission of a message to AV task starts

15.5. Error Codes Stored During No Play

Error Code	Meaning	System Computer Item	Setting Task	Internal error in system computer
F0BF	6) Unable to replay due to physical layer identification failure	PCND_NOPLAY_PHYSICAL 0x50	Drive Manager	0xD0BF
F0C0	8) DVD: Unable to replay due to no DVD Video/Audio/VR	PCND_NOPLAY_VIDEO 0x70	Disc Manager	0xD0C0
F0C1	9) DVD: Prohibited due to illegal regional code	PCND_NOPLAY_RCD 0x80	Disc Manager	0xD0C1
F0C2	A) DVD: No replay due to PAL system	PCND_NOPLAY_PAL 0x90	Disc Manager	0xD0C2
F0C3	B) DVD: All title replay prohibited in parental setting	PCND_NOPLAY_PTL 0xA0	Disc Manager	0xD0C3
F0C4	C) VCD: Prohibited due to PHOTO CD format	PCND_NOPLAY_PHOTOCD 0xB0	Disc Manager	0xD0C4
F0C5	D) VCD/CD: Prohibited due to CD-ROM without CD-DA	PCND_NOPLAY_CDROM 0xC0	Disc Manager	0xD0C5

15.6. 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.	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} xxx ^{*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.
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.	DVDnn_F--- *nn: Error history *--: Error number	Automatically exits the mode after five seconds.
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.	Measurement of laser current electricity initialization value Memorizes each initialization value of DVD and CD in EEPROM.	DO ^{*1} _034 ^{*2} _028 ^{*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 34mA at DVD laser and 28mA 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 DISPLAY button on the remote controller unit.	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).	DD ^{*1} _034 ^{*2} _032 ^{*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 34mA and its present value is 32mA.	Automatically exits the mode after five seconds.

Item	Operational Condition and Key Function	Details	Display	To Exit Mode
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.	A ^{*1} _0FA ^{*2} _6901 ^{*3} ^{*1} : ADSC internal RAM display mode ^{*2} : Address ^{*3} : RAM value at displayed address Values are shown in the hexadecimal digit. The above example indicates that ADSC value at the address, 0FAh is 6901h.	Press the STOP or OPEN button.
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.	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).	DC ^{*1} _028 ^{*2} _026 ^{*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.	"INITIALIZED"	None
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	__w ^{*1} _x ^{*2} y ^{*3} _zzz ^{*4} ^{*1} : Region number ^{*2} : N; no PAL/P; PAL ^{*3} : N; NTSC/6; PAL60 ^{*4} : Panel computer jumper information	Automatically exits the mode after five seconds.
Firm 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.	Firm 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 firm 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, "8" on the remote controller unit.	Region and firm version display	_r ^{*1} _xx ^{*2} y ^{*3} zzz ^{*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.
Usage time 1	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.	Usage time 1 Laser usage time Measures each for DVD and CD respectively.	T1_1234_5678 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.
Usage time 1 reset	While the usage time 1 is displayed, press and hold down the ■ button on the player and the ▼ button on the remote controller unit.	Usage time 1 reset Laser usage time' Resets both for DVD and CD at once.	T1_0000_0000	Automatically exits the mode after five seconds.

Item	Operational Condition and Key Function	Details	Display	To Exit Mode
Usage time 2	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.	Usage time 2 Spindle motor usage time	T2_1234 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.
Usage time 2 reset	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.
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.	Displays frequency of communication errors between system computer firm IC and mechanical computer IC during DVD module.	ERR_00_/30	Automatically exits the mode after five seconds.

15.7. Lock Function

This function prohibits removal of disc and some disc operations to prevent loss of disc at a shop during sales promotion or equivalent occasions.

While this function is activated, the player displays "___LOCKED_" if any button is touched.

The lock function can be used in two ways.

15.7.1. Setting

• LOCK MODE A/LOCK MODE B

1. While the player is set to SELECTOR DVD/CD and POWER ON, press and hold down the ■ button on the player and the [POWER] button on the remote controller for at least three seconds so that the player displays "___LOCKED_" for three seconds to indicate that LOCK MODE A is activated and the currently loaded disc is played.
2. The following button is invalid during LOCK MODE A.
OPEN/CLOSE ▲ button are invalid and the player displays "___LOCKED_" while the lock function mode is entered.
3. While LOCK MODE A is activated and the player is locked, press and hold down the ■ button on the player and the [POWER] button on the remote controller for at least three seconds so that the player displays "_UNLOCKED_" to indicate the function is deactivated.
4. While the player is set to SELECTOR DVD/CD and POWER ON, press and hold down the ► button on the player and the [POWER] button on the remote controller for at least three seconds so that the player displays "___LOCKED_" for three seconds to indicate that LOCK MODE B is activated and the currently loaded disc is played.
5. The following buttons are invalid, based on the "selector or disc related", during LOCK MODE B.

Player	▲, ■, II, SELECTOR, ►►, I◄◄, VOL. JOG
Remote controller unit	SLEEP, REPEAT, D.MIX (REPEAT holding down), 0~9, ≥10, RETURN, FL DISPLAY, TEST (FL DISPLAY holding down), DISPLAY, SCREEN, CH SELECT, ■, II, I◄◄, ►►, ◄◄, ►►, SET UP, GROUP, MUTING, P MEMORY, TUNER/BAND, TV, VCR/AUX

6. The keys prohibited during PLAY and LOCK MODE B need not to correspond each other. The keys related to sound quality and shown on the DVD screen are not prohibited. Following buttons are always valid:

Player	POWER, DVD/CD>, PROGRESSIVE, VOL. JOG
Remote controller unit	POWER, PLAY MODE, CANCEL, SFC, B. B LEVEL, VOL-, VOL+, DVD/CD>, MENU, TOP MENU, ◄, ►, ▲, ▼, ENTER, DPL, SSS,C.F, CSM, ZOOM

7. While LOCK MODE B is activated and the player is locked, press and hold down the ► button on the player and the [POWER] button on the remote controller for at least three seconds so that the player displays "_UNLOCKED_" for three seconds to indicate that the function is deactivated.
8. The tray lock function is deactivated by "AC Prohibition".
9. LOCK MODE A or B is an exclusive control over whichever is activated first.
10. While the player is set to a lock mode and POWER OFF, the auto power on function can be controlled by the DVD/CD button on the remote controller. The auto power on function is invalid by the other selector buttons (such as TUNER/BAND button).
11. While a lock mode is turned on and the prohibition button is pressed, "___LOCKED_" appears on FL.
12. While a lock mode is turned on and set to POWER OFF, the OPEN/CLOSE button is invalid to control the auto power on function.

15.8. 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.

16 Service precautions

16.1. Recovery after the player is repaired

- When FLASH ROM or Module (2) 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.

Note:

This unit requires no initialization process carried out after the traditional DVD players were repaired. When the recovery measures are taken, the customer setting will return to the factory setting as same as the procedure described in item "Initialization" in 13.6 is carried out. Write down the contents of the setting before recovery processing and reset the player.

16.2. 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 and restart version upgrade. Version upgrade disc number is informed when ordered.

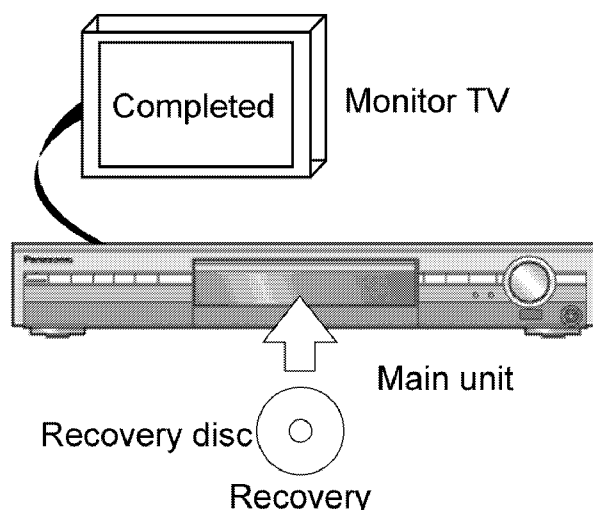
16.3. Firmware Version Upgrade Process by Using Recovery Disc

- 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 DVD Module Circuit board

Version upgrade process: Renewal of firmware for improvement of operational range and performance



16.3.1. 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.

17 Disassembly and Main Component Replacement Procedures

“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.

Warning:

This product uses a laser diode. Refer to caution statement Precaution of Laser Diode.

ACHTUNG:

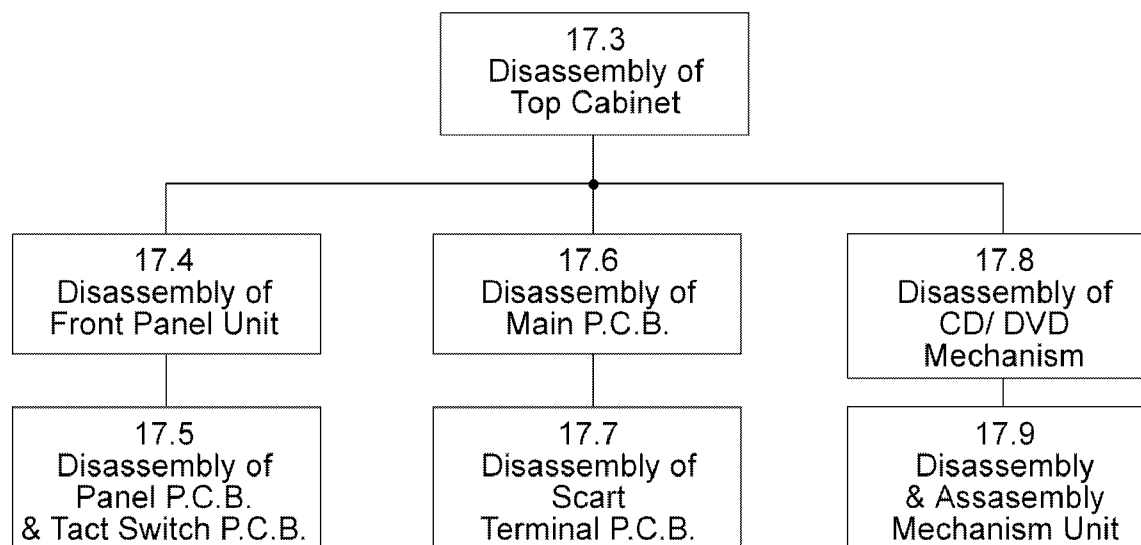
Die Lasereinheit nicht zerlegen.

Die Lasereinheit darf nur gegen eine vom Hersteller spezifizierte Einheit ausgetauscht werden.

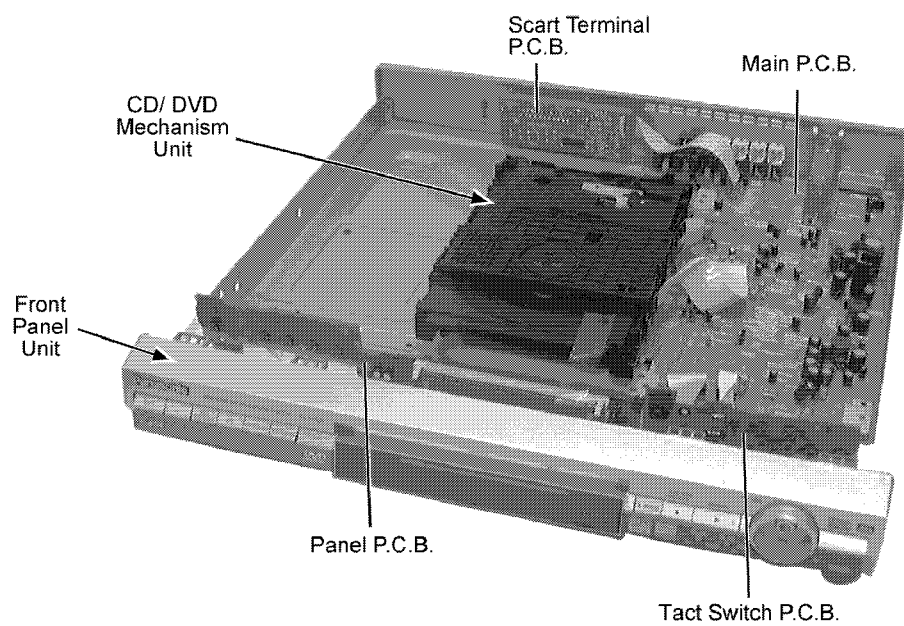
17.1. Disassembly flow chart

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

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

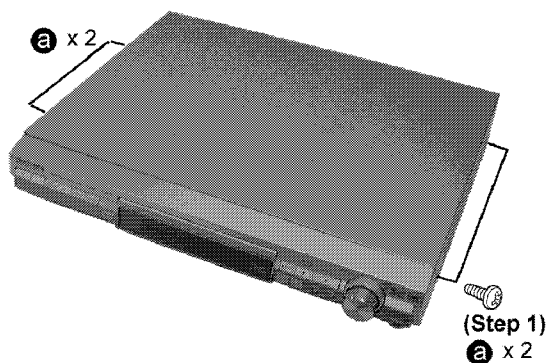


17.2. P.C.B. Positions

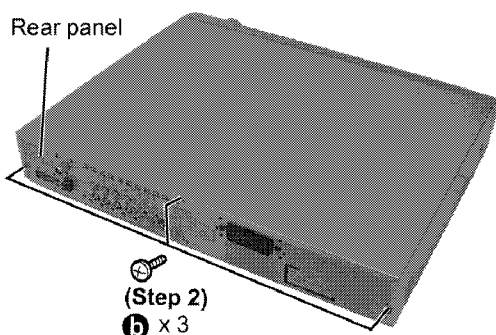


17.3. Disassembly of Top Cabinet

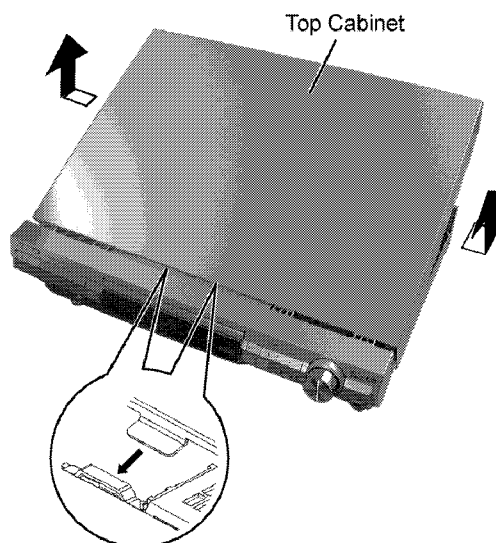
Step 1: Remove 4 screws.



Step 2: Remove 3 screws at rear panel.



Step 3: Lift the top cabinet upwards and push in backward.

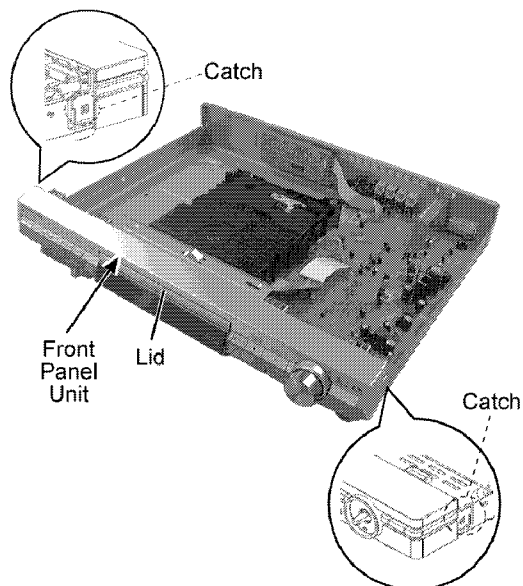
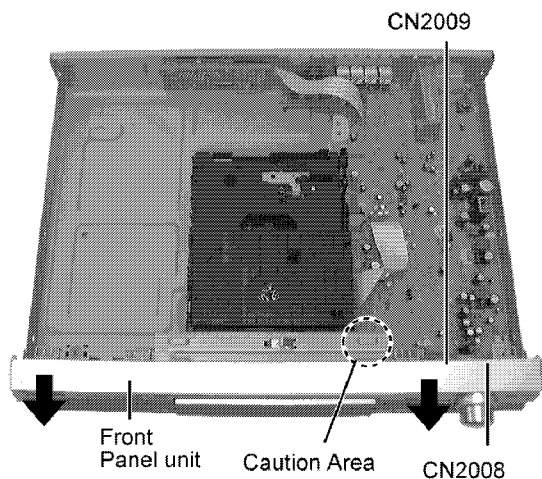


17.4. Disassembly of Front Panel Unit

- Follow the (Step 1) - (Step 3) of item 17.3 - Disassembly of Top Cabinet

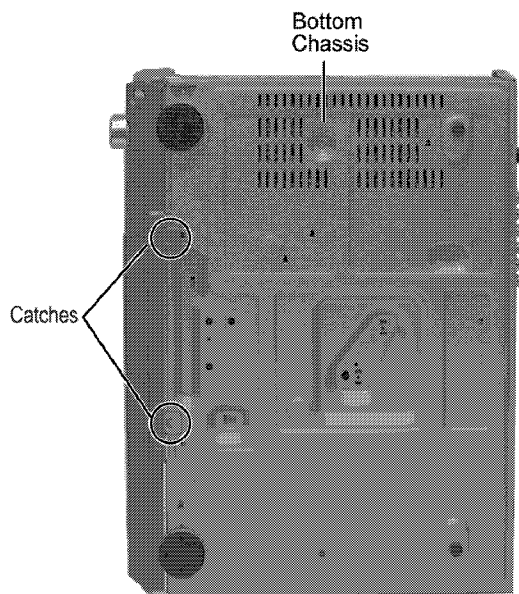
Step 1: Remove lid. (Using active subwoofer unit/ jig to power-up the unit.)

Step 2: Detach FFC Boards (CN2008 and CN2009).



Step 3: Release the catches on the left and right side of front unit.

Step 4: Release the catches from bottom chassis.



Step 5: Draw front panel unit forward.

• **Note:**

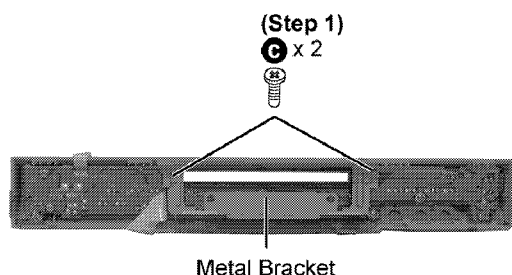
Avoid pulling the front panel unit using strong force.

This may cause damage to Main P.C.B. due to abrasion between metal bracket and the mechanism unit.

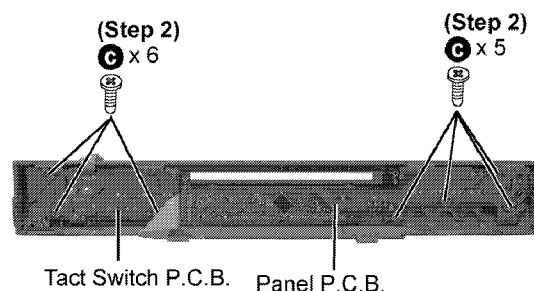
17.5. Disassembly of Panel P.C.B. & Tact Switch P.C.B.

- Follow the (Step 1) - (Step 3) of item 17.3 - Disassembly of Top Cabinet
- Follow the (Step 1) - (Step 5) of item 17.4 - Disassembly of Front Panel Unit

Step 1: Remove 2 screws.



Step 2: Lift up the Metal Bracket.



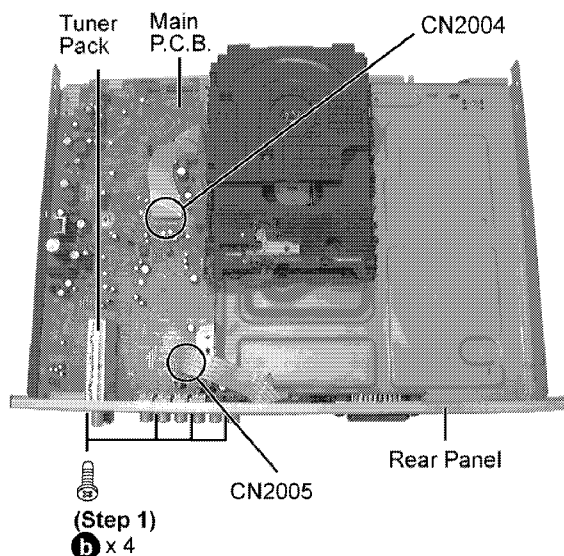
Step 3: Remove 6 screws.

Step 4: Remove 5 screws at Panel P.C.B.

17.6. Disassembly of Main P.C.B.

- Follow the (Step 1) - (Step 3) of item 17.3 - Disassembly of Top Cabinet
- Follow the (Step 1) - (Step 5) of item 17.4 - Disassembly of Front Panel

Step 1: Remove 4 screws at the rear panel.

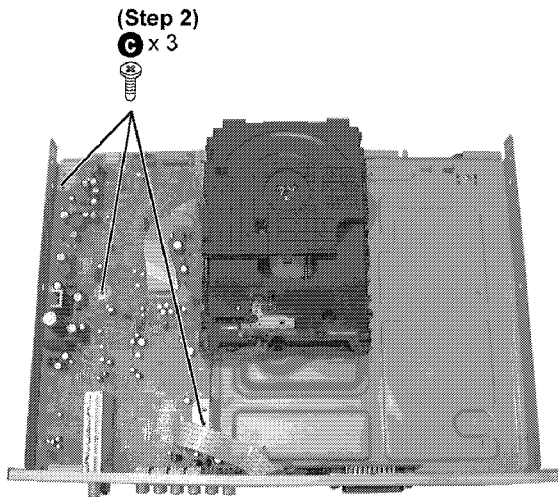


Step 2: Detach FFC Board (CN2005).

Step 3: Detach 50P FFC Board (CN2004).

Step 4: Remove 3 screws at Main P.C.B..

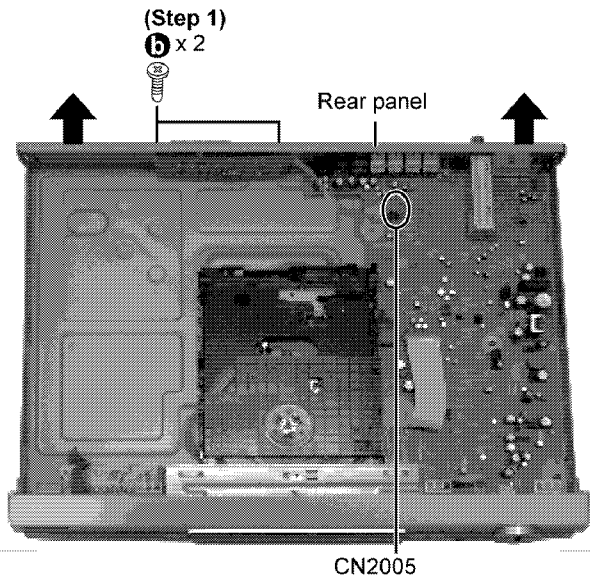
Step 5: Push the Main P.C.B. backwards and lift up the P.C.B. sideways.



17.7. Disassembly of Scart Terminal P.C.B.

- Follow the (Step 1) - (Step 3) of item 17.3 - Disassembly of Top Cabinet

Step 1: Remove 2 screws at the rear panel.



Step 2: Detach FFC Boards (CN2005).

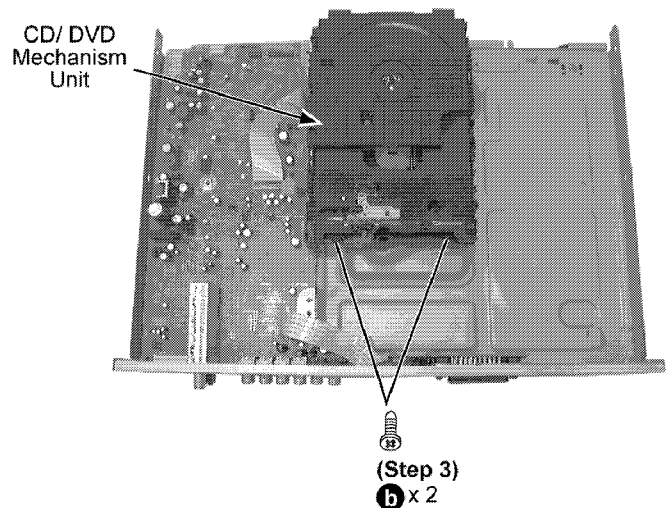
Step 3: Slide the PCB backwards to remove it.

17.8. Disassembly of CD/ DVD Mechanism

- Follow the (Step 1) - (Step 3) of item 17.3 - Disassembly of Top Cabinet
- Follow the (Step 1) - (Step 5) of item 17.4 - Removal of Front Panel

Step 1: Detach 50P FFC Boards (CN2004).

Step 2: Detach connector (H2000).



Step 3: Remove 2 screws.

Step 4: Lift up the CD/ DVD mechanism unit.

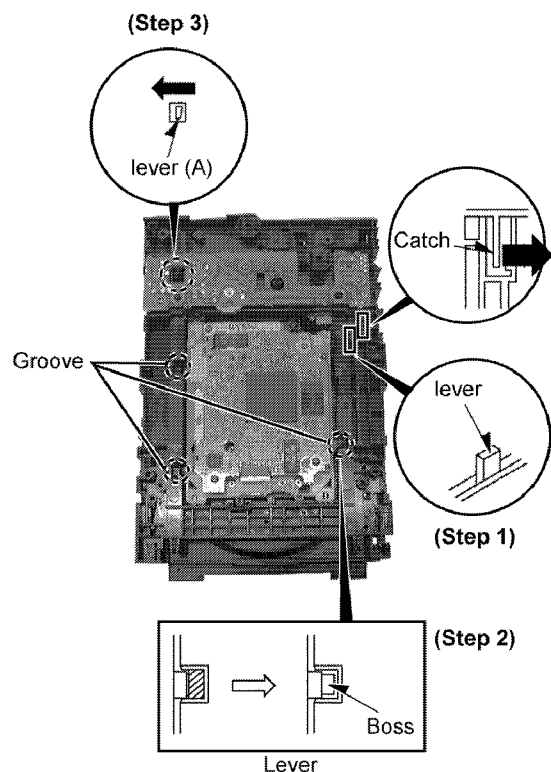
17.9. Disassembly and Assembly Mechanism Unit

17.9.1. Replacement of Traverse Unit.

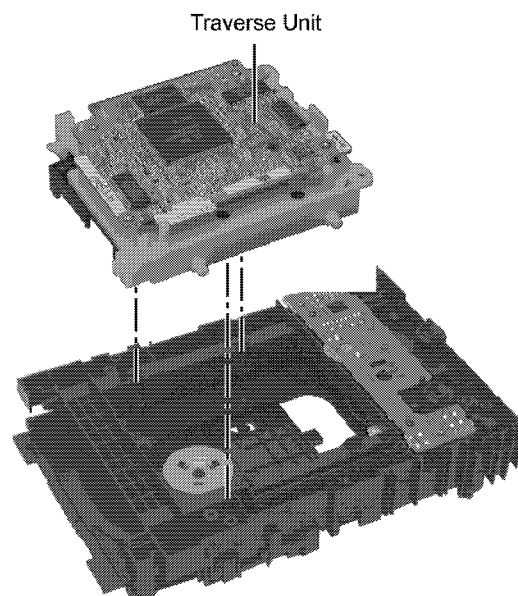
Step 1: Slide the lever backward to the furthest.

Step 2: While bending the catch at right to the lever to the right direction, slide the lever further until it stops. (The groove at right opens, the boss can be seen.)

Step 3: Press lever (A) to the left. (Two grooves at left open.)

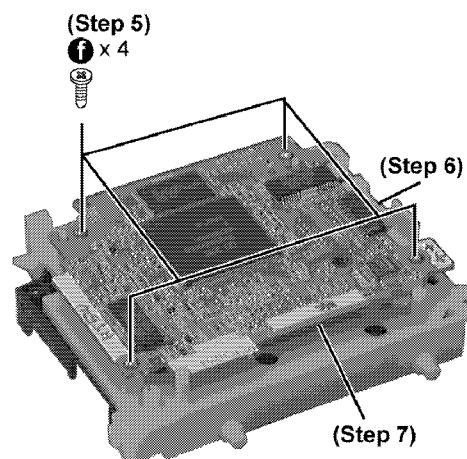


Step 4: Take out the traverse Unit.



- Disassembly of DVD Module P.C.B.

Step 5: Remove 4 screws.



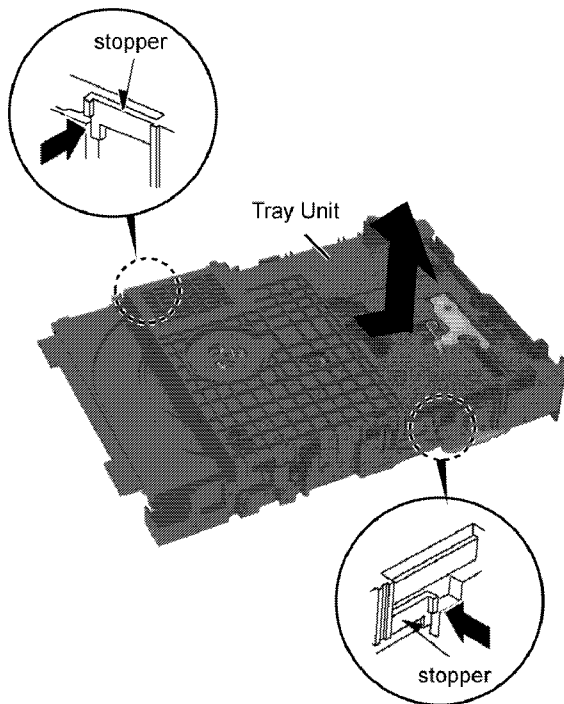
Step 6: Detach 15 P FFC Board (FP8271).

Step 7: Detach 20P FFC Board (FP8501).

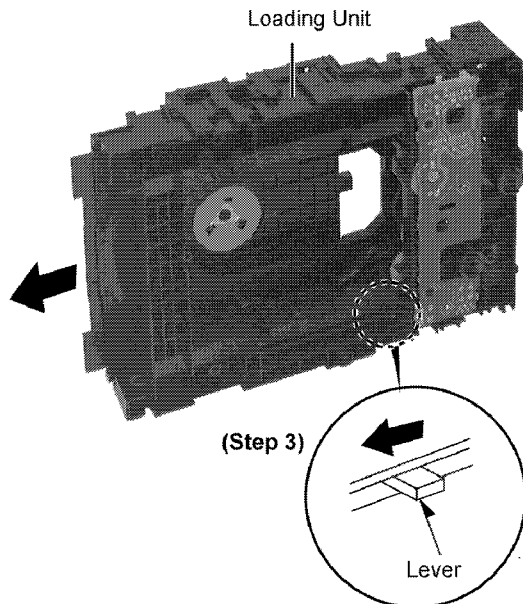
17.9.2. Replacement of Tray.

- Follow the (Step 1) - (Step 7) of item 17.9.1 - Replacement of Traverse Unit

Step 1: While pressing the stopper to the arrow direction, slide the guide tray unit to remove.

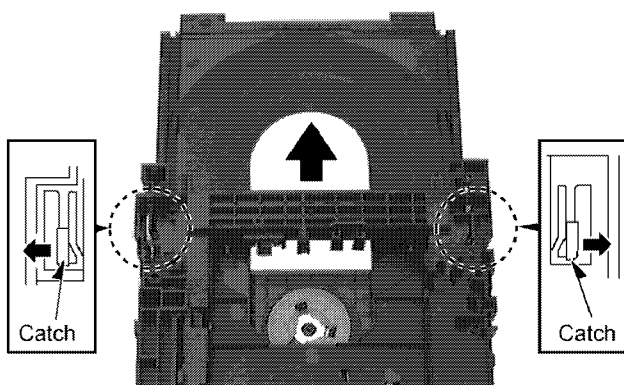


Step 2: Stand the Loading Unit.

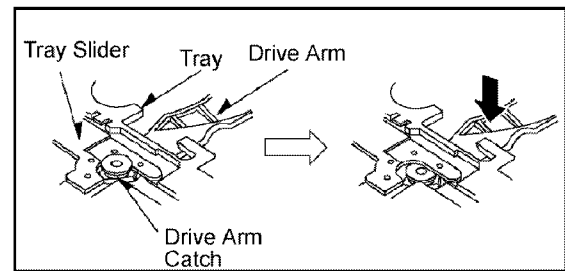


Step 3: Push the lever forward (the tray will move).

Step 4: Widen the catches at both sides and pull out the tray. (The tray will stop after a few slides)

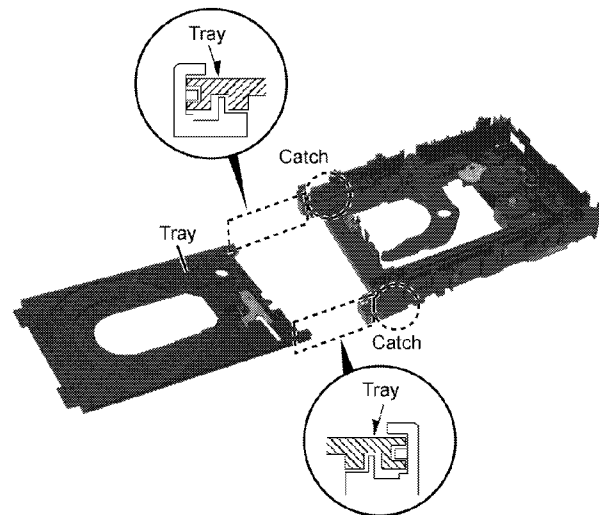
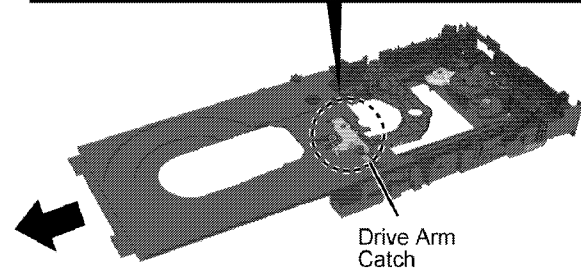


Step 5: Remove Drive Arm Catch from Tray Slider and Tray.

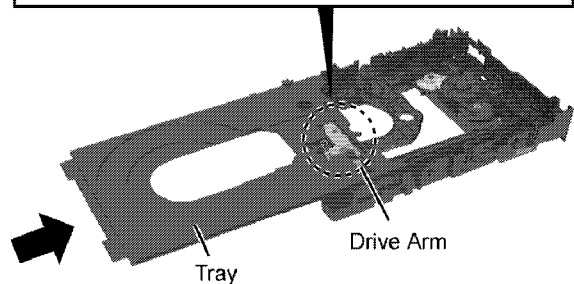
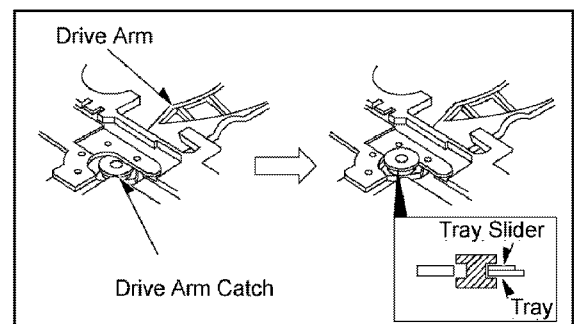


• Fixture the Tray

Step 1: Insert Tray slightly into groove of chassis.



Step 2: Insert Tray into the area to avoid catching the mechanism chassis claw.



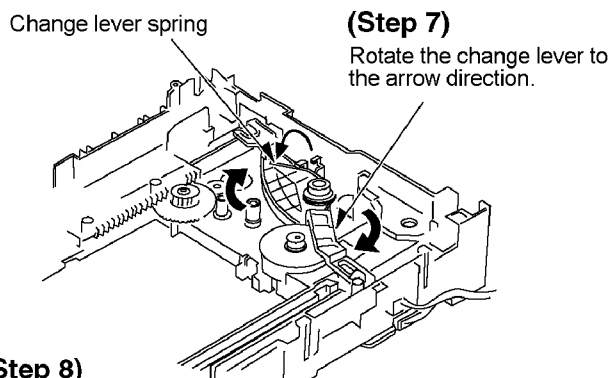
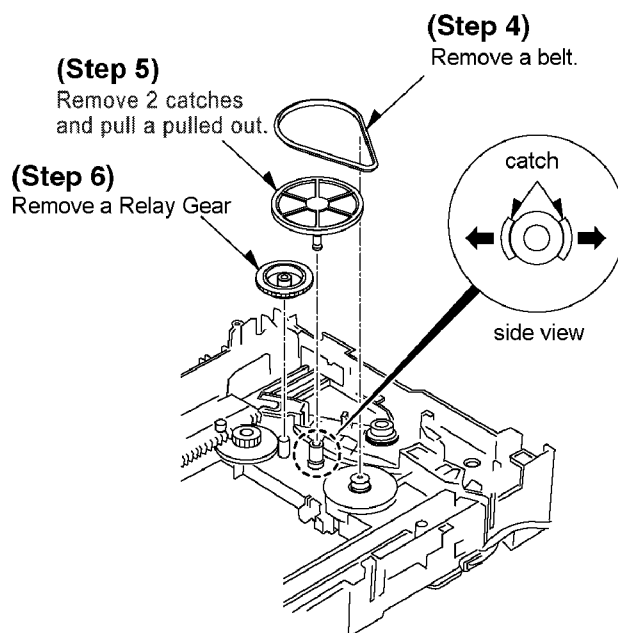
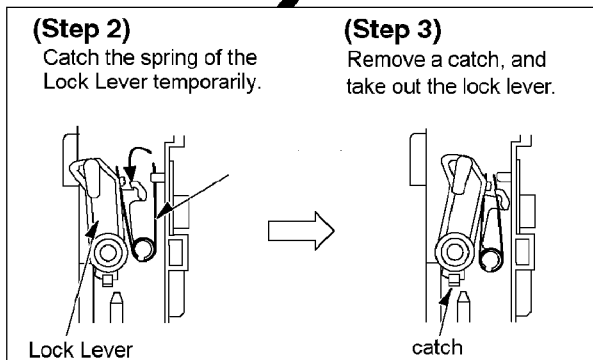
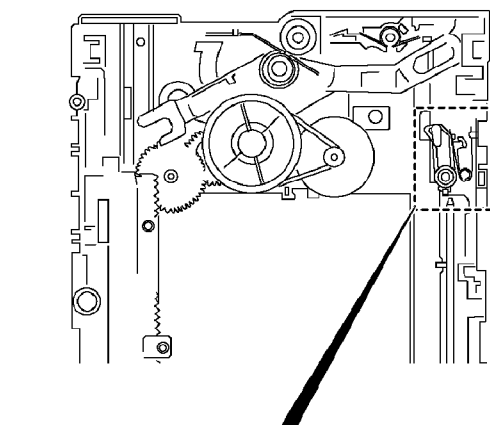
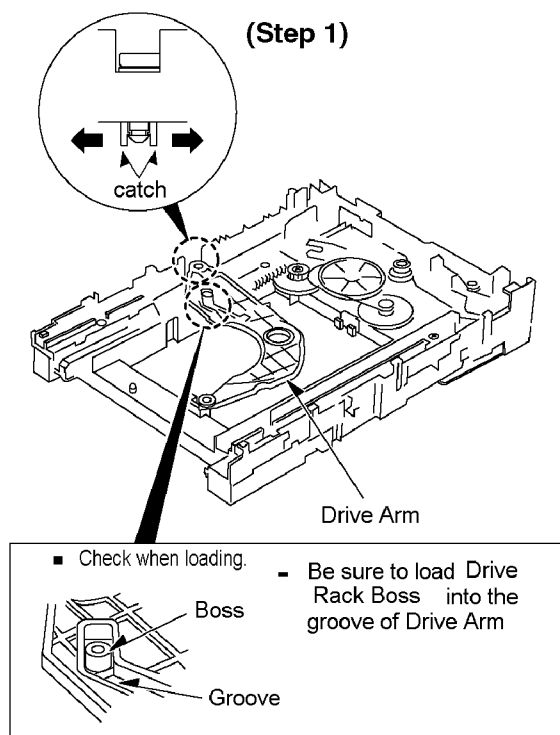
Step 3: Latch Drive Arm Catch onto Tray and Tray Slider.

Step 4: Push Tray .

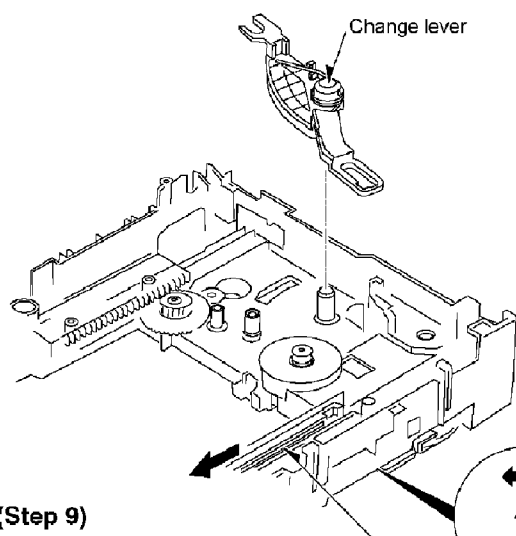
Step 5: Check Tray and Drive Arm move smoothly.

17.9.3. Disassembly of loading section.

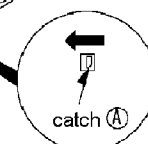
- Follow the (Step 1) - (Step 4) of item 17.9.1 - Replacement of Traverse Unit
- Follow the (Step 1) - (Step 5) of item 17.9.2 - Replacement of Tray



(Step 8)
Latch temporarily Change lever spring onto the catch of the change lever



(Step 9)
Open the Lever (A) (ref. 13.1) at the reverse side, pull the sub rack, and remove the Change lever.



(Step 11)

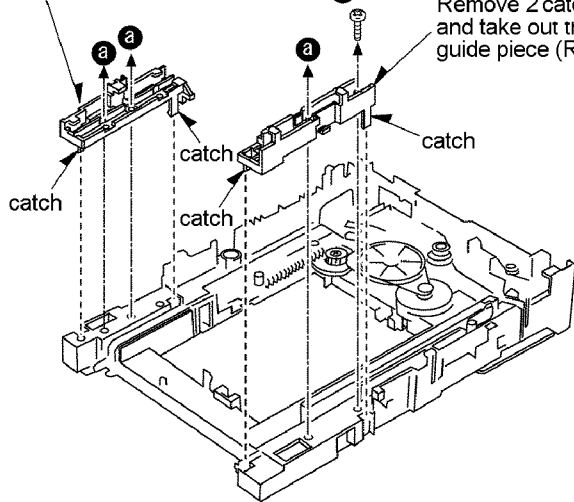
Remove 2 catches and take out the guide piece (L).

(Step 10)

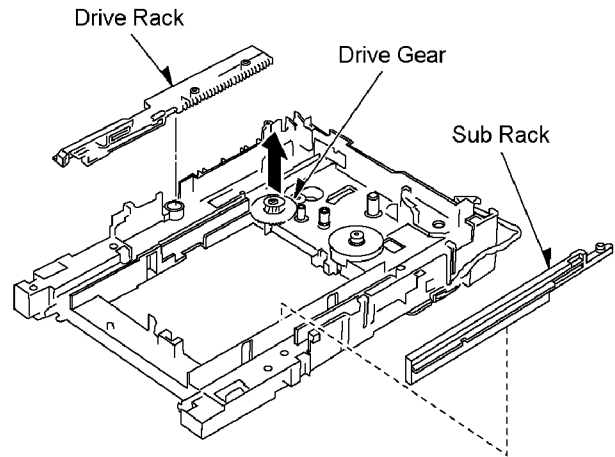
$a \times 5$

(Step 12)

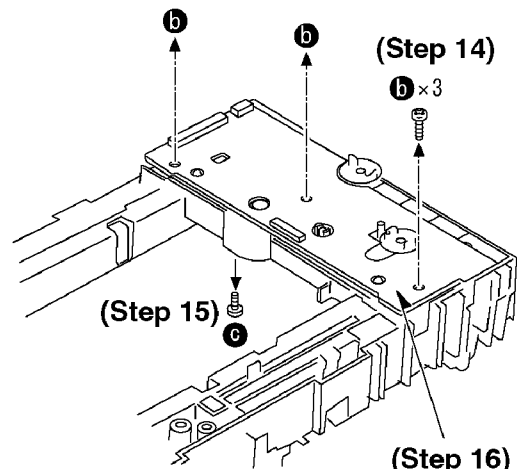
Remove 2 catches and take out the guide piece (R).

**(Step 13)**

Remove the drive rack, the drive gear and the sub rack.

**(Step 14)**

$b \times 3$

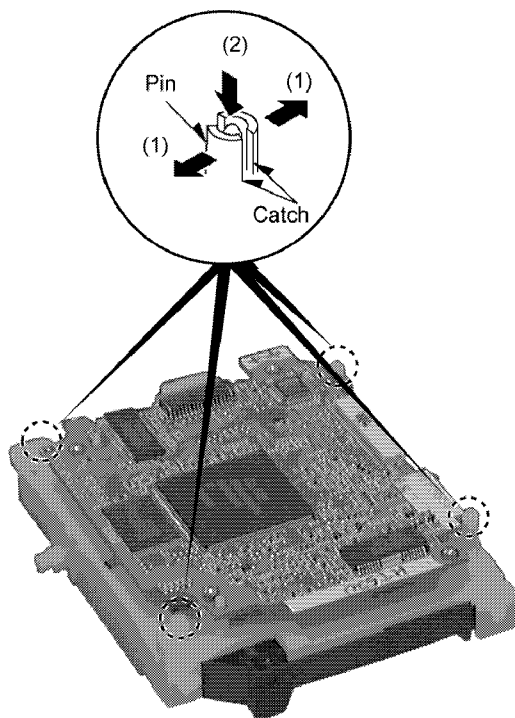
**(Step 16)**

Remove the Relay PCB.

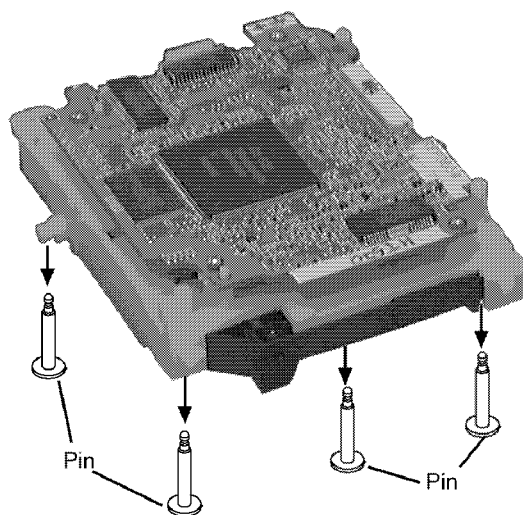
17.9.4. Replacement of Optical Pickup Unit

- Follow the **(Step 1)** - **(Step 5)** of item 17.9.1 - Replacement of Traverse Unit
- Follow the **(Step 1)** - **(Step 5)** of item 17.9.2 - Replacement of Tray

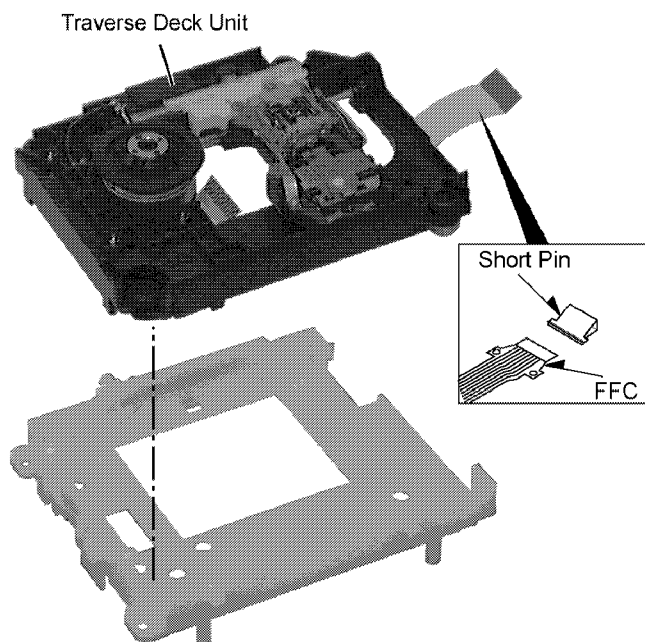
Step 1: Widen the catch, push the pin in.



Step 2: Remove 4 pins.



Step 3: Remove Traverse Unit.

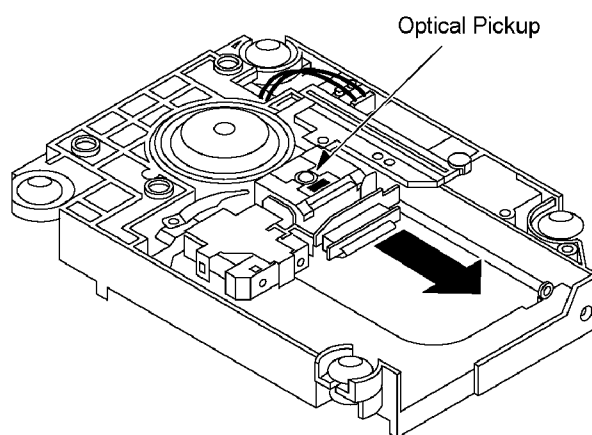


Note:

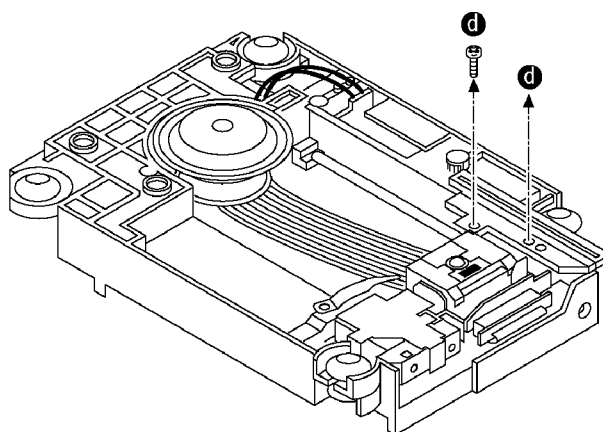
Insert a short pin into FFC of the optical pickup.

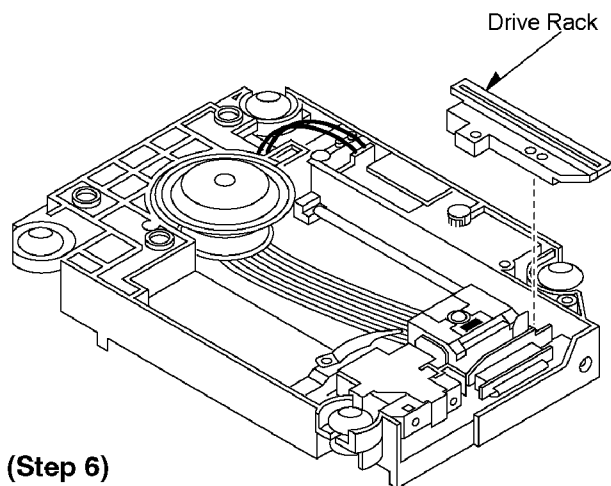
(Step 4)

Shift the Optical Pickup to the furthest backward.

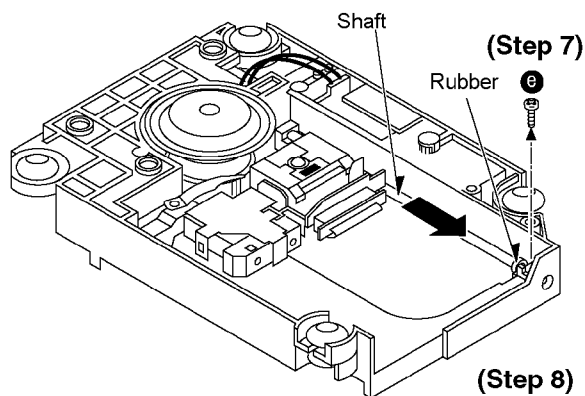


(Step 5)



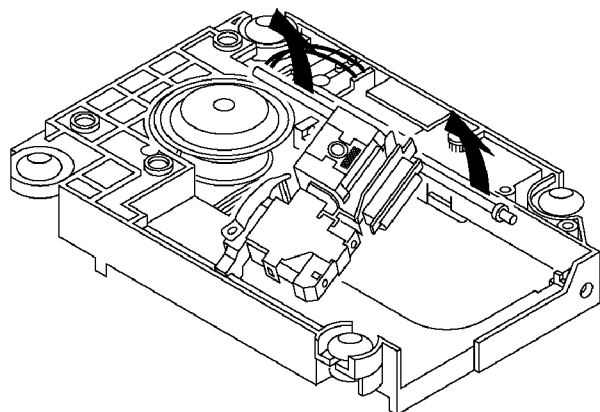


(Step 6)
Remove the Drive Rack.

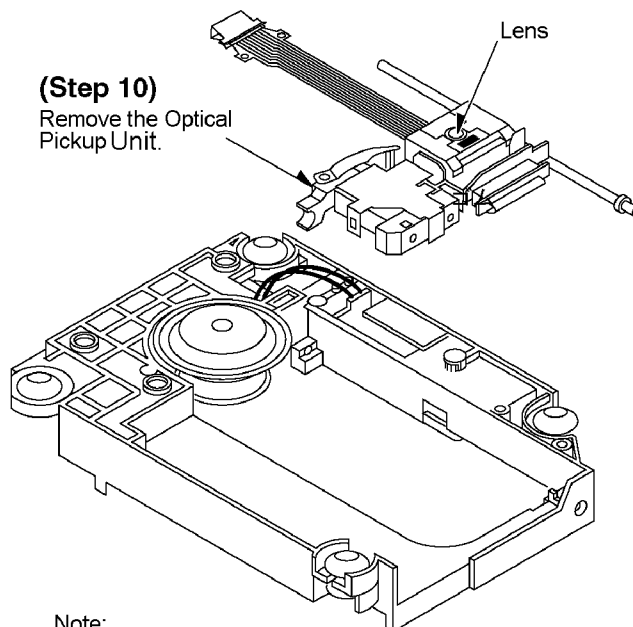


(Step 7)

(Step 8)
Shift the shaft to the arrow direction.

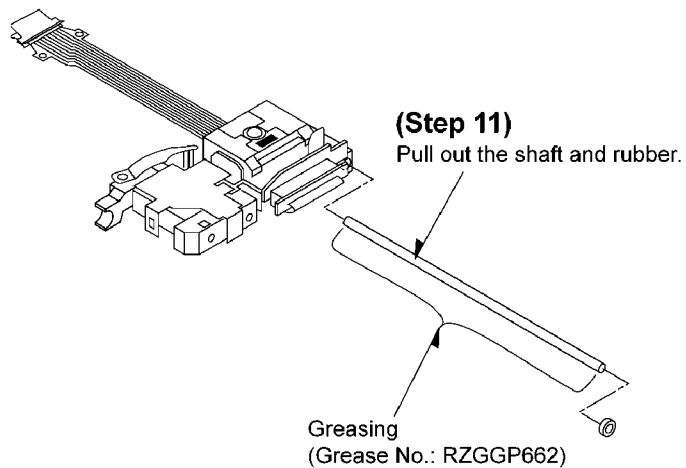


(Step 9)
Lift the Optical Pickup Unit with shaft.



(Step 10)
Remove the Optical Pickup Unit.

Note:
1. Do not subject optical pickup to static electricity as it is extremely sensitive to electrical shock.



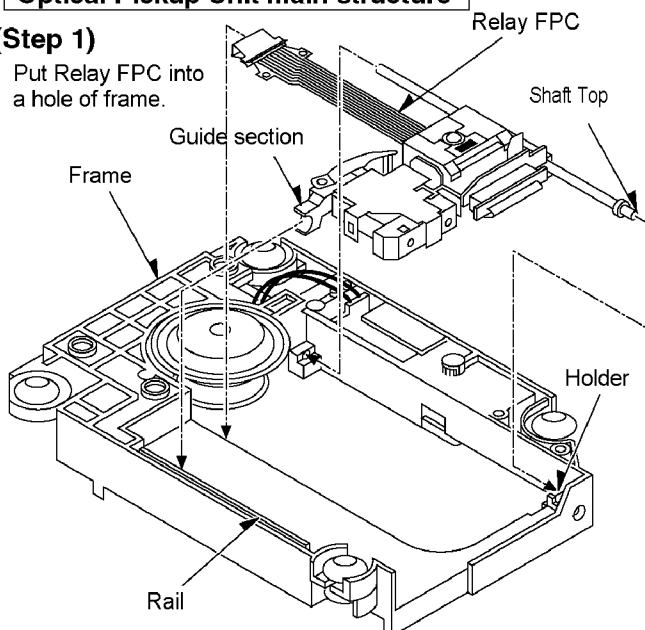
(Step 11)

Pull out the shaft and rubber.

Greasing
(Grease No.: RZGGP662)

Optical Pickup Unit main structure**(Step 1)**

Put Relay FPC into a hole of frame.

**(Step 3)**

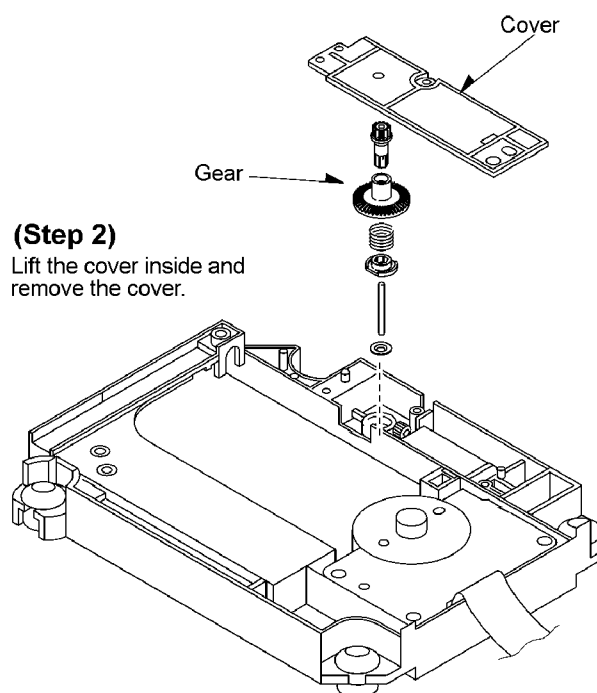
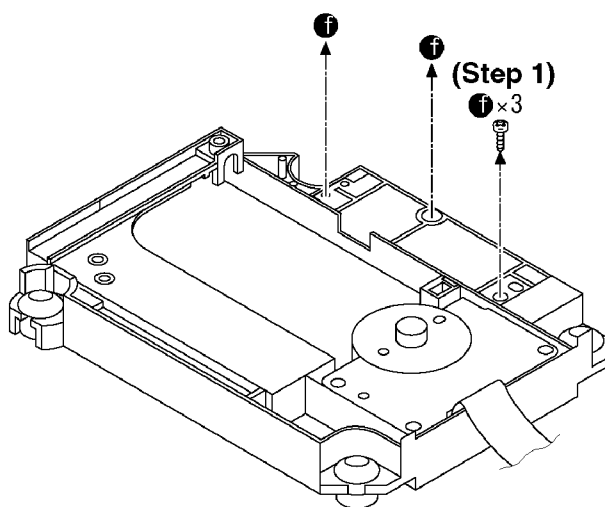
Put Shaft Top into the Holder

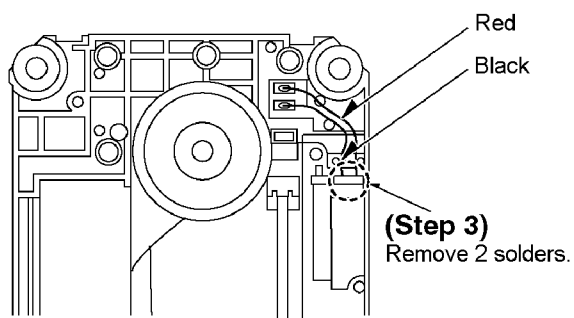
(Step 2)

Fit Optical Pickup Unit Guide into the rail.

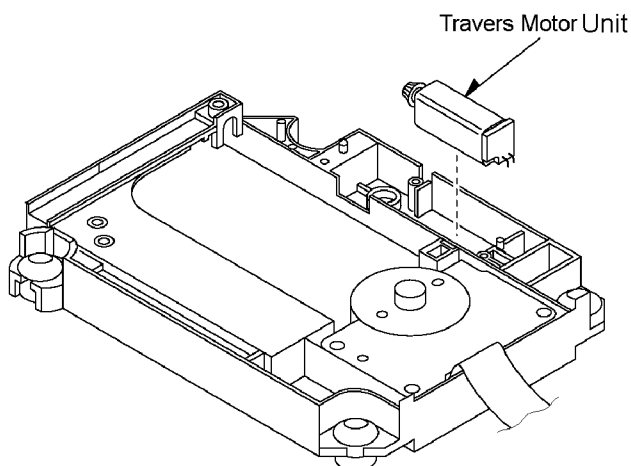
17.9.5. Disassembly of traverse motor (Unit) and spindle motor (Unit).

- Follow the (Step 1) - (Step 5) of item 17.9.1 - Replacement of Traverse Unit
- Follow the (Step 1) - (Step 5) of item 17.9.2 - Replacement of Tray
- Follow the (Step 1) - (Step 11) of item 17.9.4 - Replacement of Optical Pickup Unit

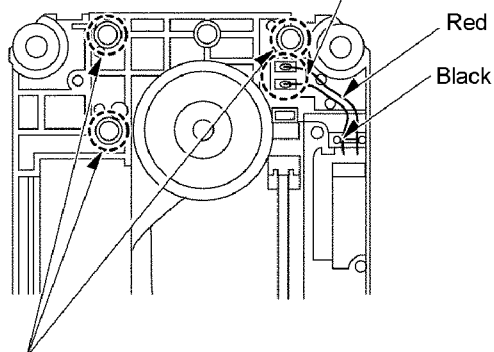




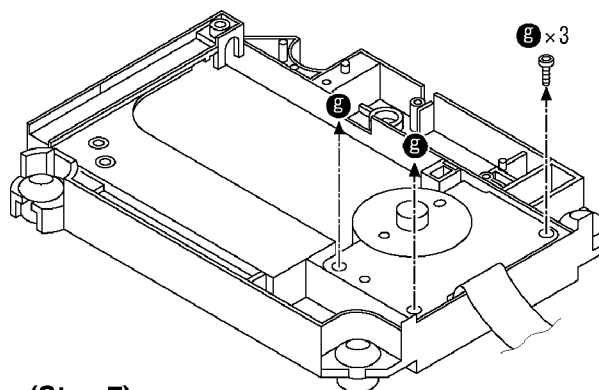
(Step 4)
Remove the Traverse Motor Unit.



(Step 5)
Remove 2 solders.

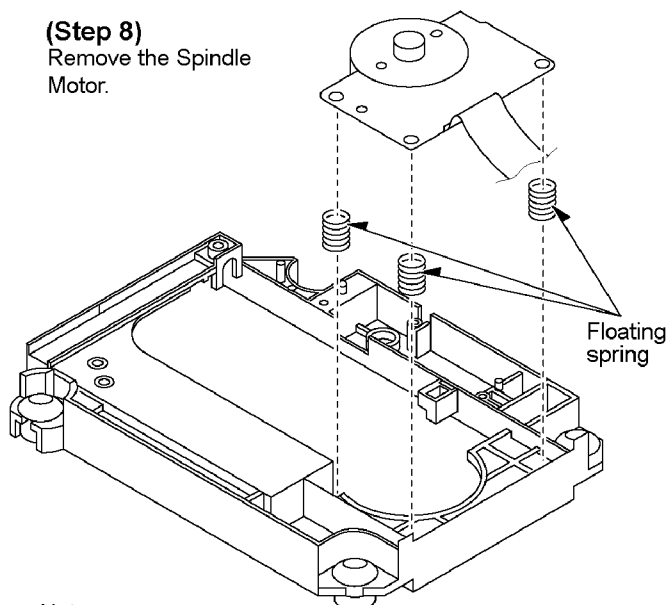


(Step 6)
Remove 3 screw locks thoroughly.



(Step 7)
Remove $\textcircled{E}$ (3 pieces) with 1.8mm slotted screwdriver.

(Step 8)
Remove the Spindle Motor.



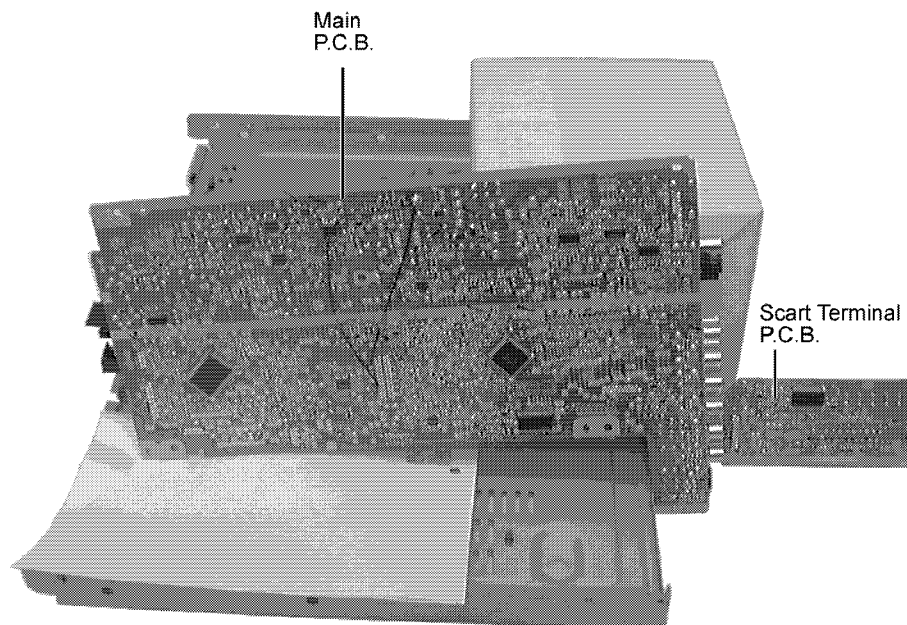
Note:
As floating springs (3 pieces) come off at the same time, be careful not to lose them.

18 Service Position

18.1. Checking the Main PCB and Scart Terminal PCB

Below are the necessary steps required for checking of Main and Scart Terminal P.C.B..

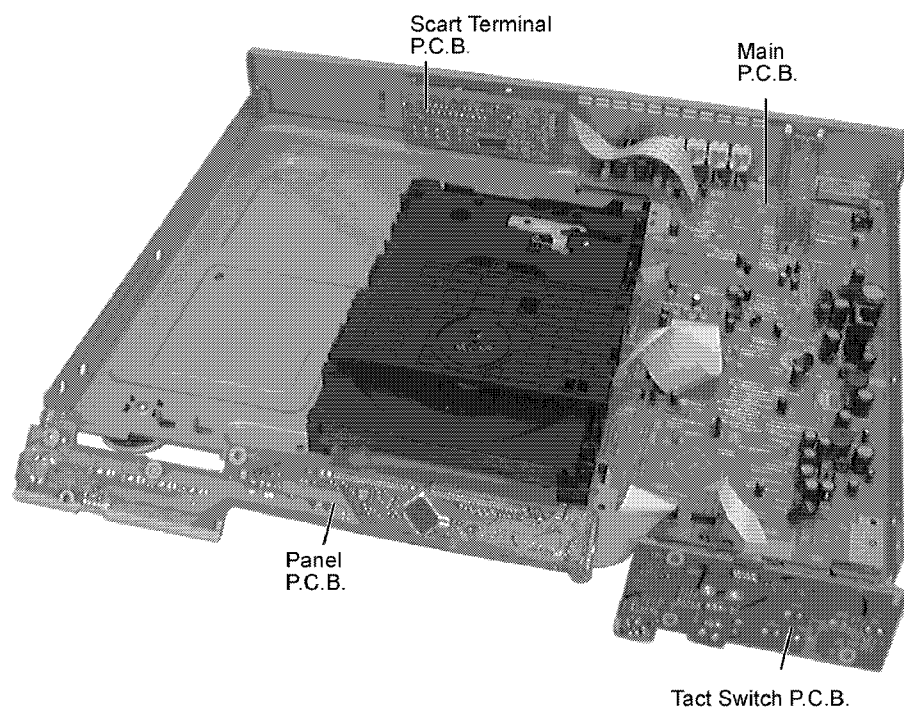
1. Disassembly of Top Cabinet.
2. Disassembly of Front Panel.
3. Disassembly of Rear Panel.
4. Disassembly of Main P.C.B..



18.2. Checking the Main, Panel P.C.B., Scart Terminal P.C.B. and Tact Switch P.C.B.

Below are the necessary steps required for cheking of Panel and Tact Switch P.C.B..

1. Disassembly of Top Cabinet.
2. Disassembly of Front Panel.
3. Disassembly of Tact Switch and Panel P.C.B..



19 Adjustment Procedure

19.1. Required Tools and Equipment

19.1.1. Usage Equipment

Application	Name	Number
Tilt adjustment	DVD test disc	DVDT-S15 or DVDT-S01
	TORX screw driver (T6)	Available on sales route. (T6) or RFKZ0185
Inspections	Extension cable (Module P.C.B to mother P.C.B.	VUC8026
	Extension cable (Module P.C.B to mother P.C.B.	JGS0116
Others	Hanari	VFK1784
	Grease	RFKXPG641
	Drysurf	RFKXGUD24
Confirmation	CD test disc	PVCD-K06 and any other commercially available disc
	Recovery disc	RFKZD03R005

19.1.2. Important points in adjustment

19.1.2.1. Important points in Optical Adjustment

- Before starting optical system adjustment, be sure to take anti-static measures.
- Optical adjustment (optical pickup tilt adjustment) is required after following parts are replaced:
 1. Optical pickup unit.
 2. Spindle motor assembly unit.
 3. Optical pickup peripherals (such as a rail)

Note:

Optical adjustment is not necessary after replacement of other parts inside the traverse unit. However, may require when picture deterioration is detected. Optical adjustments cannot be applied to the inside of optical pickup. When a traverse unit is replaced, the adjustment is not necessary.

19.1.3. Storing and Handling Test Discs

Surface precision is vital for DVD test discs. Be sure to store and handle them carefully.

- Do not place discs directly onto the workbench, etc, after use.
- Handle the discs carefully in order to maintain their flatness. Place them into their case after use and store them vertically. Store discs in a cool place where they are not exposed to direct sunlight or air from air conditioned.
- Accurate adjustment will not be possible if the disc is warped when placed on a surface made of glass, etc. If this happens, use a new test disc to make optical adjustments.
- If adjustment is done using a warped disc, the adjustment will be incorrect and some discs will not be playable.

19.1.4. Optical Adjustment (Optical Pickup Tilt Adjustment)

Measurement point	Adjustment point	Mode	Disc
	Tangential adjustment screw Tilt adjustment screw	T1 (inner track) replay T43 (outer track) replay	DVDT-S15 or DVDT-S01
Measuring equipment		Adjustment value	
None (LCD display of the player is used.)		Adjust that jitter value becomes minimum.	

19.1.4.1. Adjustment Procedure

1. While the player is stopped and no disc is inserted, select the DVD function. Press and hold down the  button on the player and the number button, "5" on the remote controller unit.
2. Check that "J_xxx_yyy_zz" is appearing on the display.

For your information:

The values, "yyy" and "zz" are not associated to jitter value.

"yyy" indicates the frequency of error occurrence.

"zz" indicates the focus drive value.

Note:

Jitter value appears on the display.

3. Replay T01 (inner track) of the test disc.
4. Adjust till the jitter value becomes minimum, using a tangential adjustment screw. <Fig. 19-1>
5. Replay T43 (outer track) of the test disc.
6. Adjust till the jitter value becomes minimum, using a tilt adjustment screw 1. <Fig. 19-1>
7. Replay T43 (outer track) of the test disc.
8. Adjust till the jitter value becomes minimum, using a tilt adjustment screw 2.<Fig. 19-1>
9. Adjust till the jitter value becomes, using the tilt adjustment screws 1 and 2 alternatively.

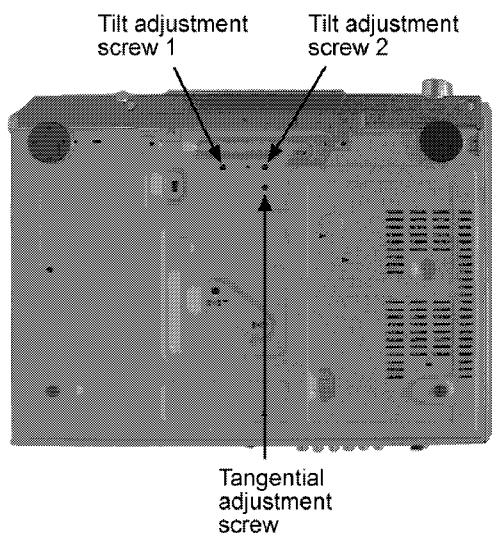
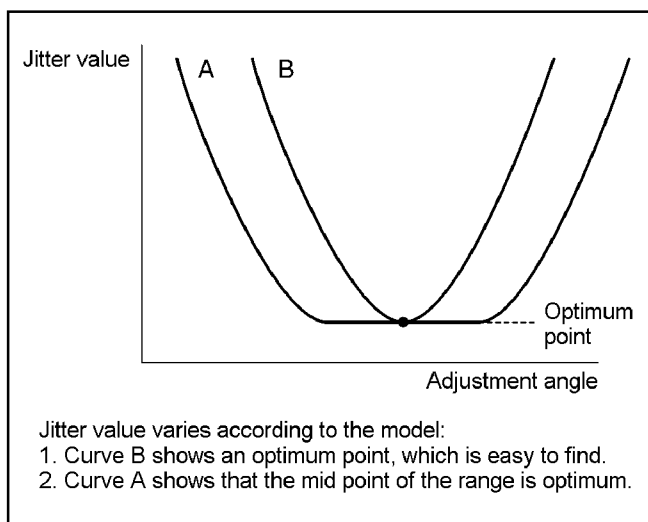


Fig. 19-1

19.1.4.2. Tips

1. Apply the tangential adjustment first and then the tilt adjustment.
2. Repeat the adjustment a couple of times to find the optimum point.
3. Complete with the tilt adjustment.



19.1.4.3. Check After Adjustment

Replay test discs or other commercial discs in order to confirm that no picture deterioration or sound skipping is detected in the inner, middle, and outer tracks. After this, fasten each adjustment screw securely using a screw lock.

19.1.4.4. Procedure for Screw Lock

1. After adjustment, remove the top cover, clamper base, disc tray and then traverse unit.
2. Place the traverse unit upside down, and fasten the adjustment screws with a screw lock. <Fig. 19-2>
3. After fastening the screws, assemble in order of the traverse unit, disc tray, clamper base, and then top cover.

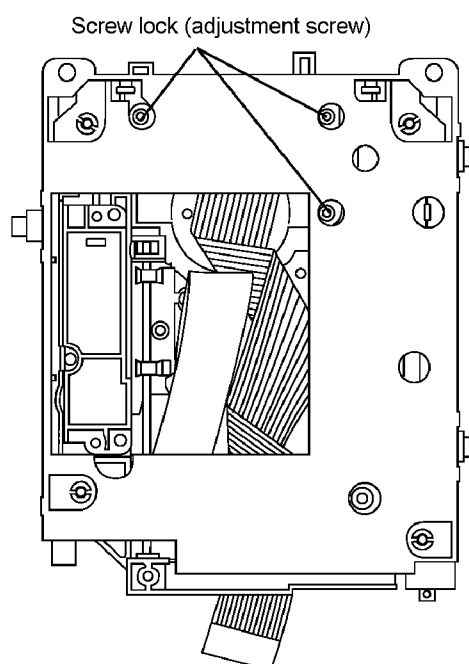
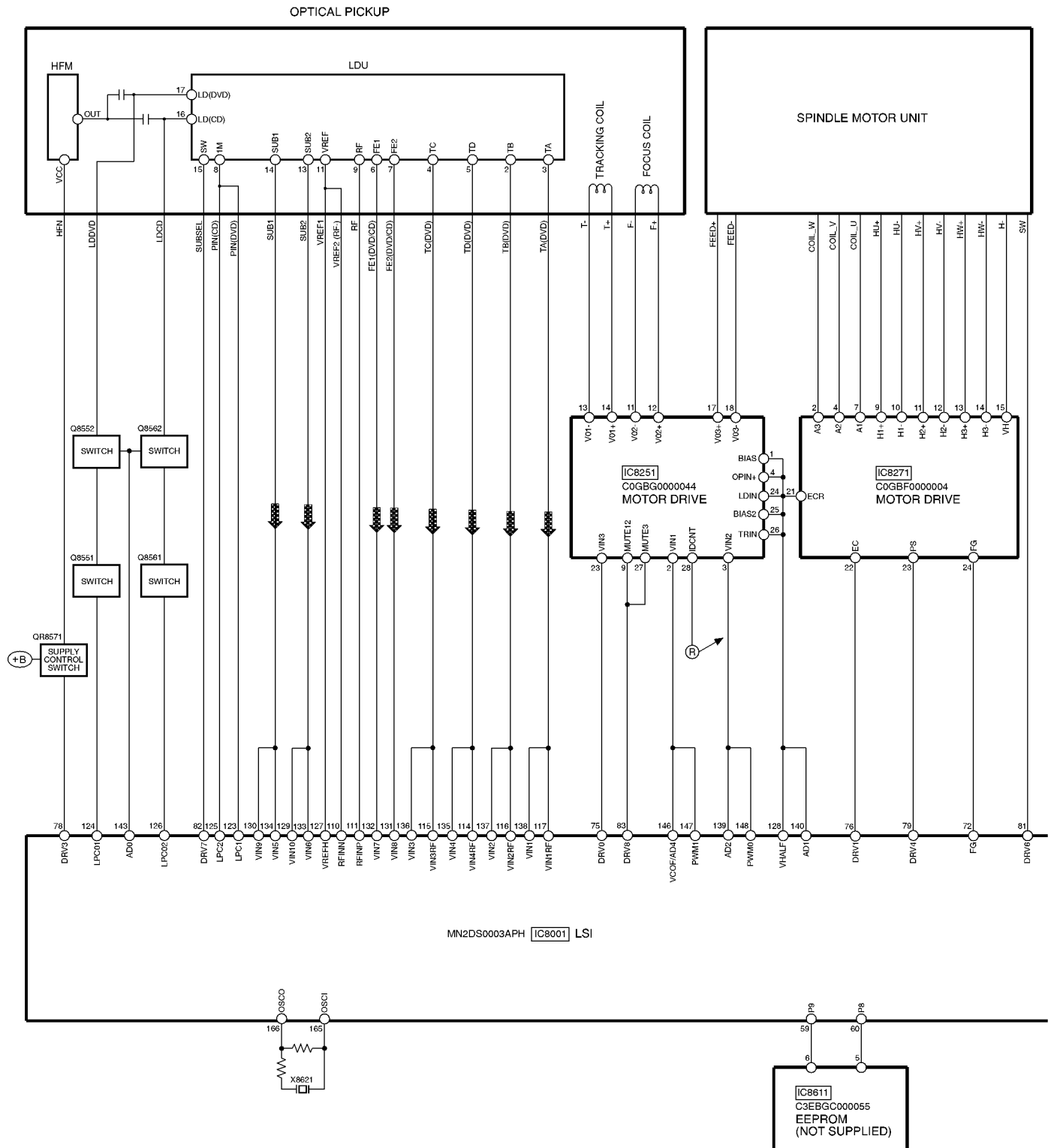
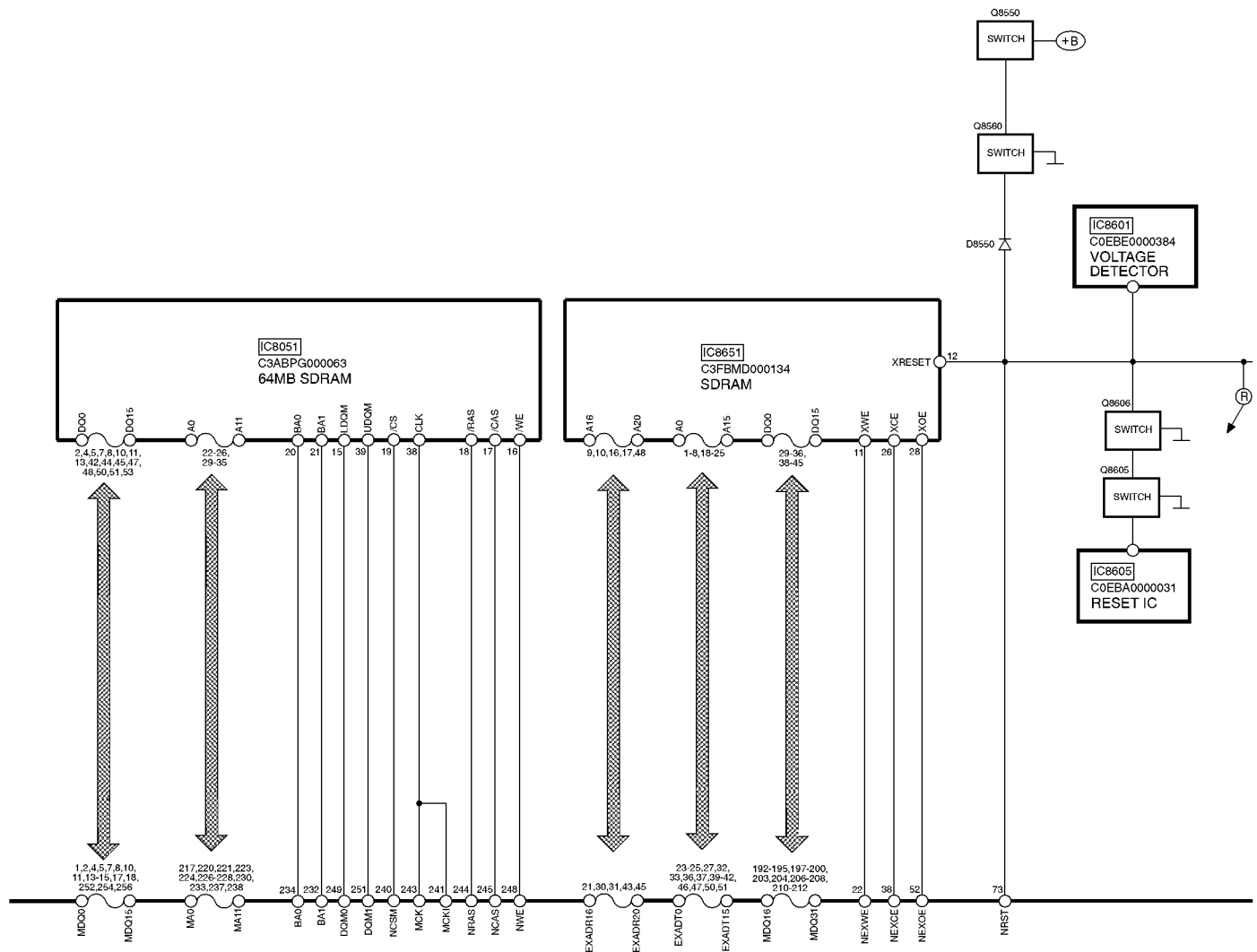


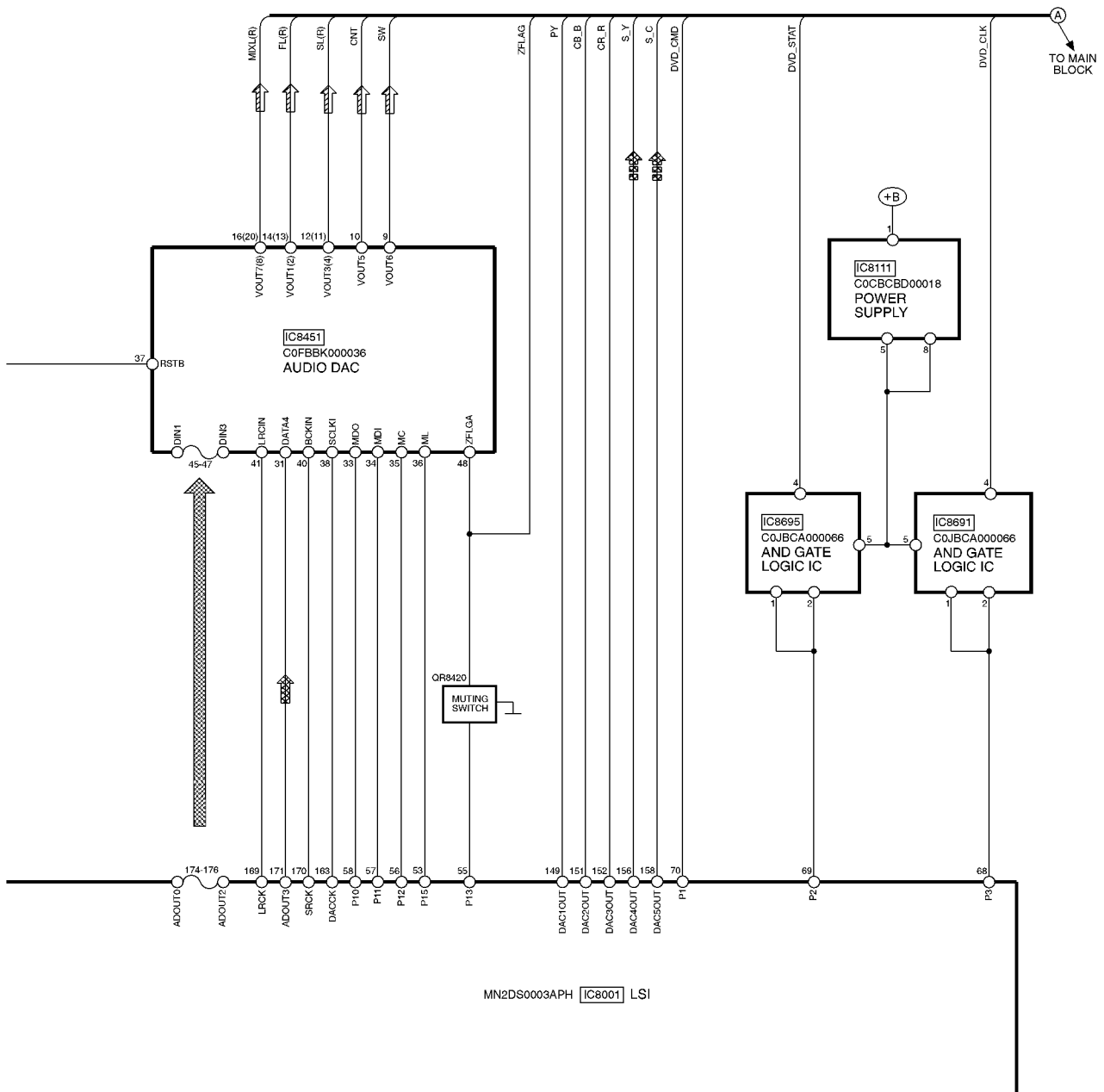
Fig. 19-2

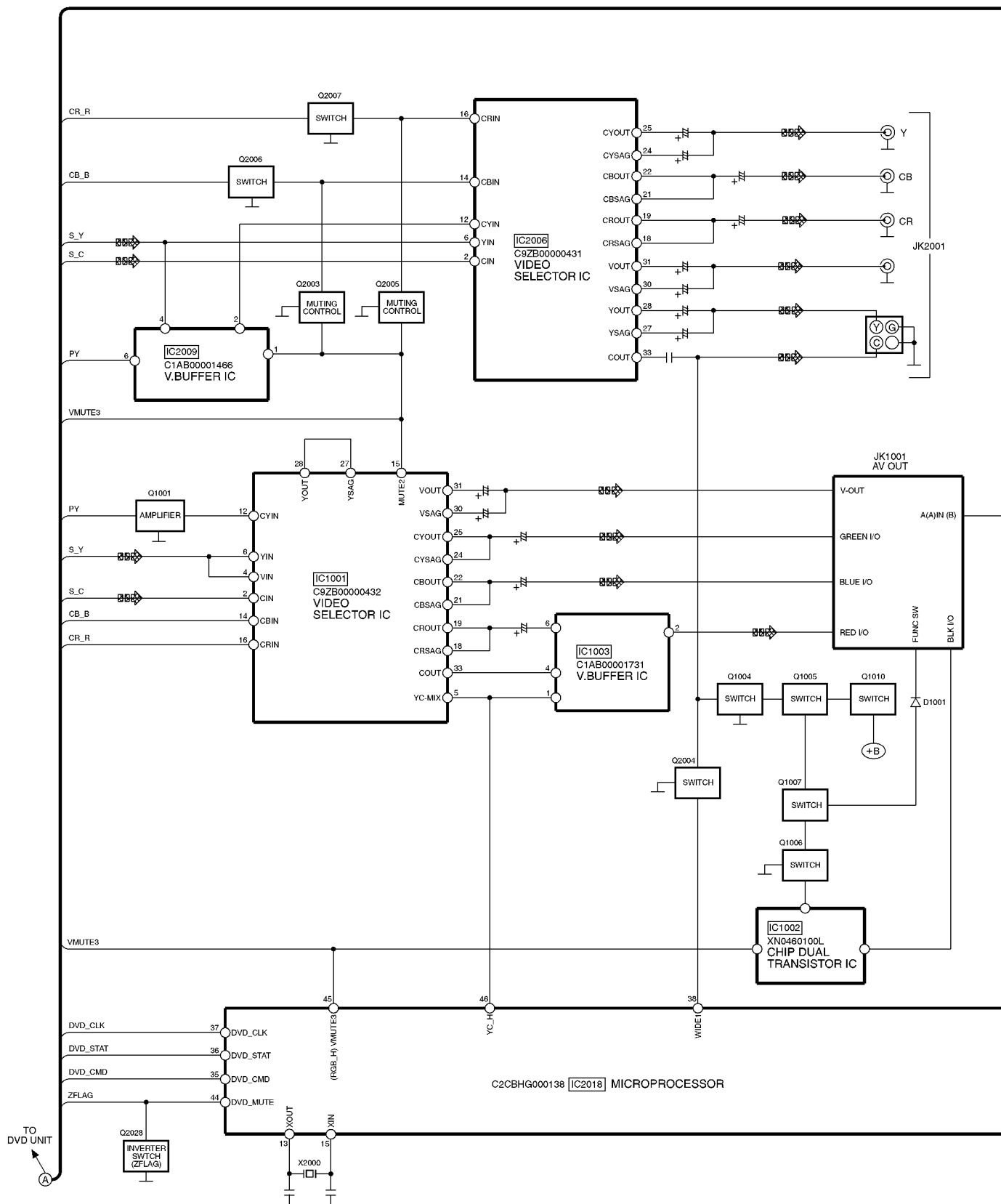
20 Block Diagram

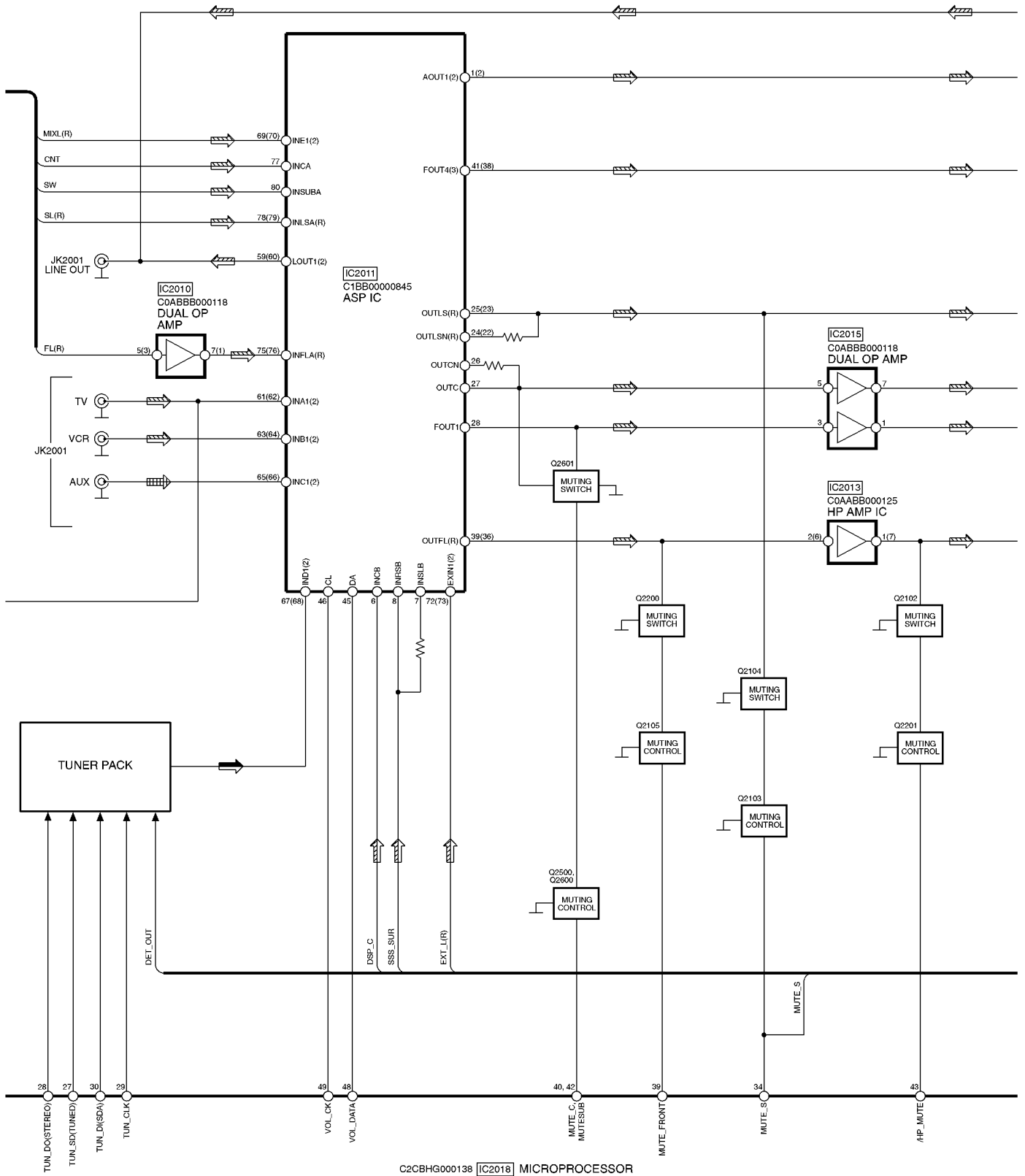


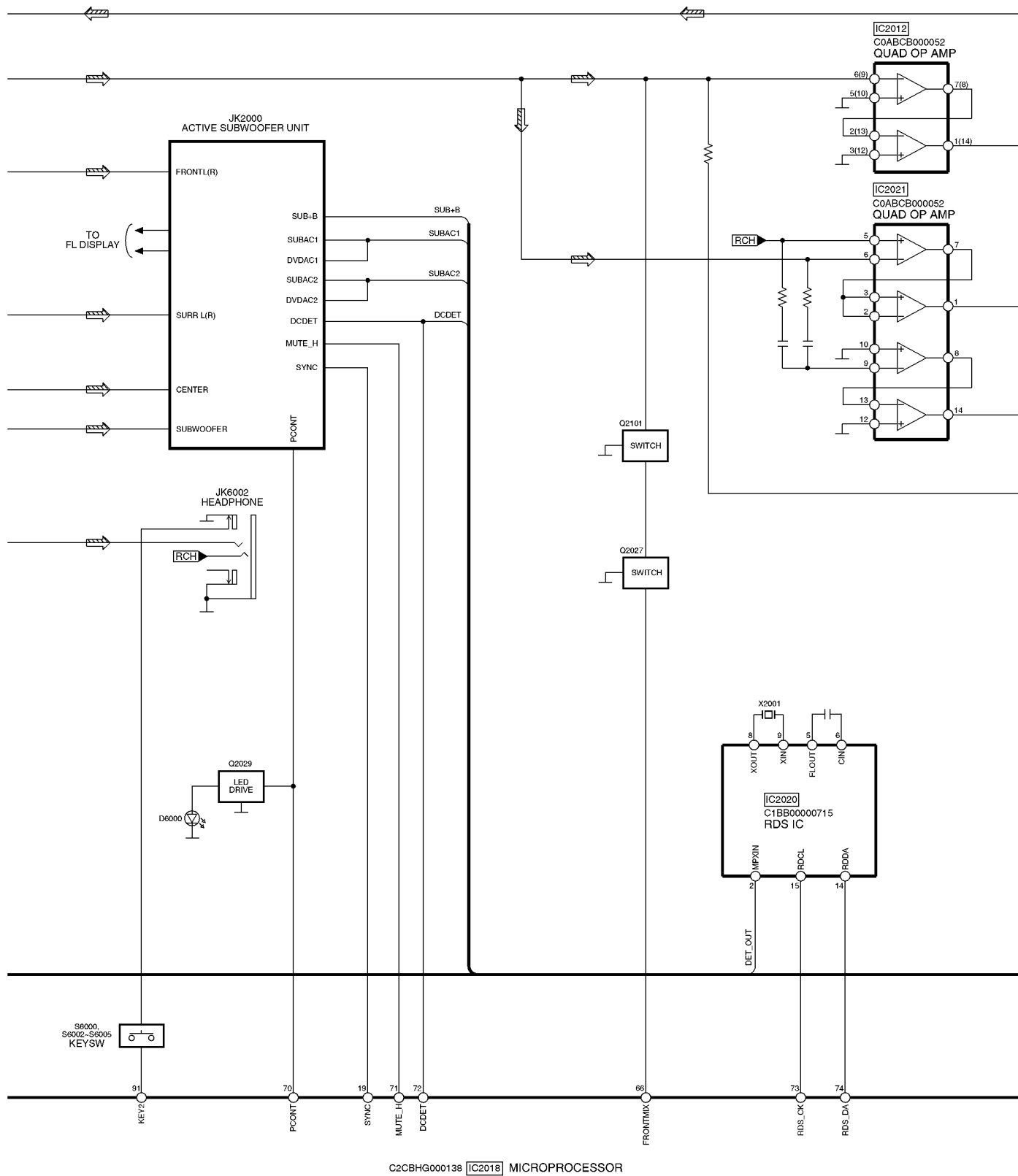


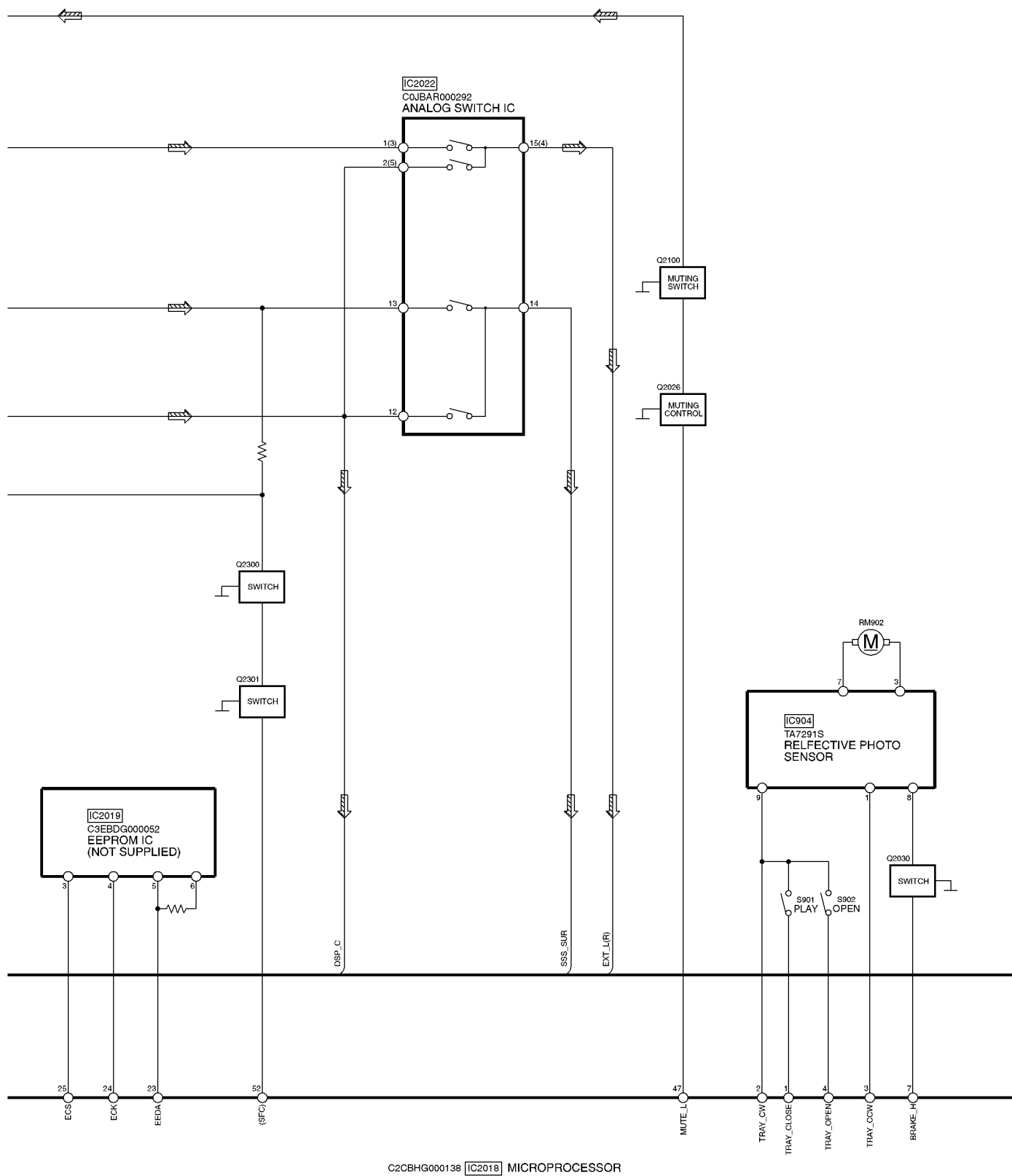
MN2DS0003APH [IC8001] LSI

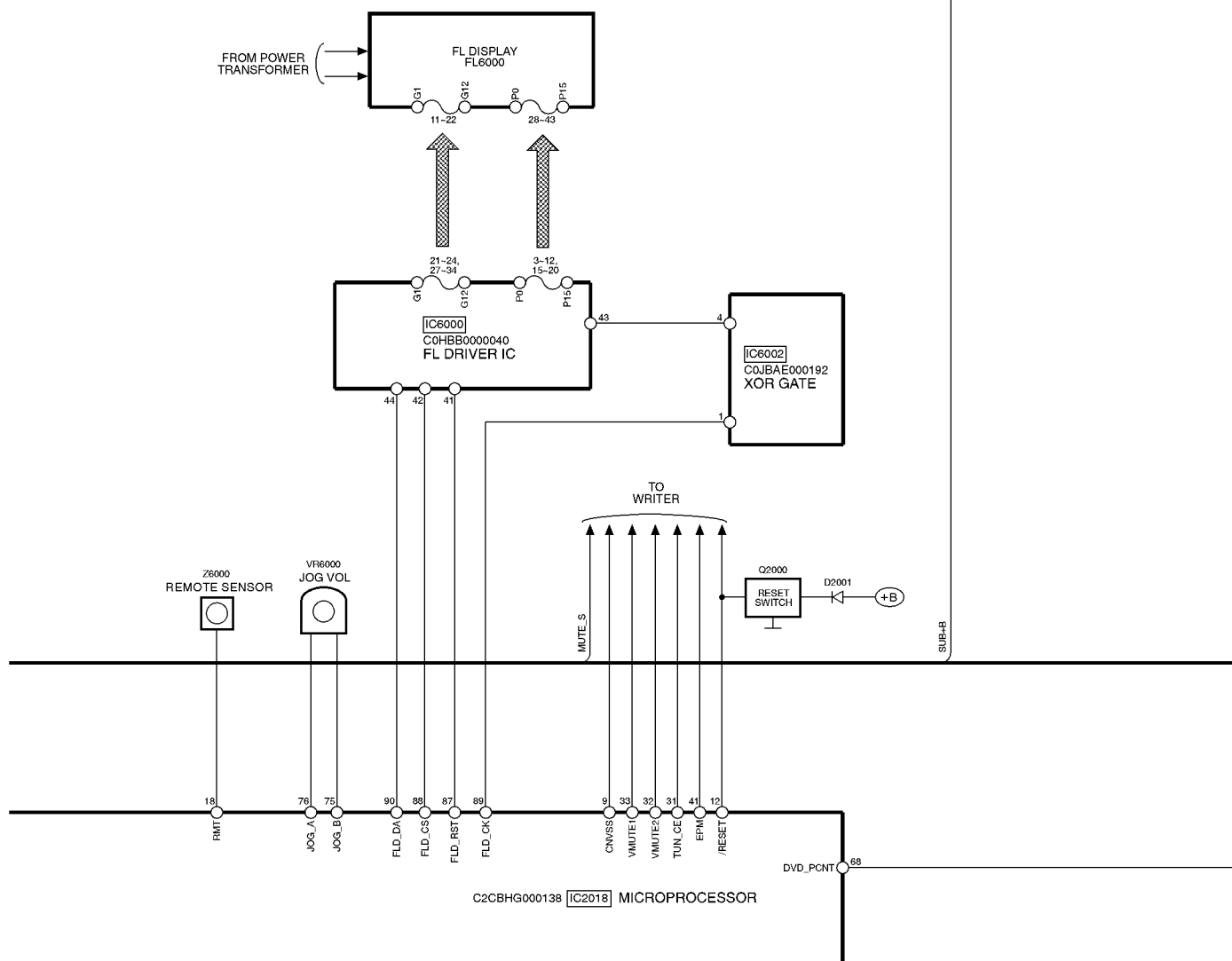


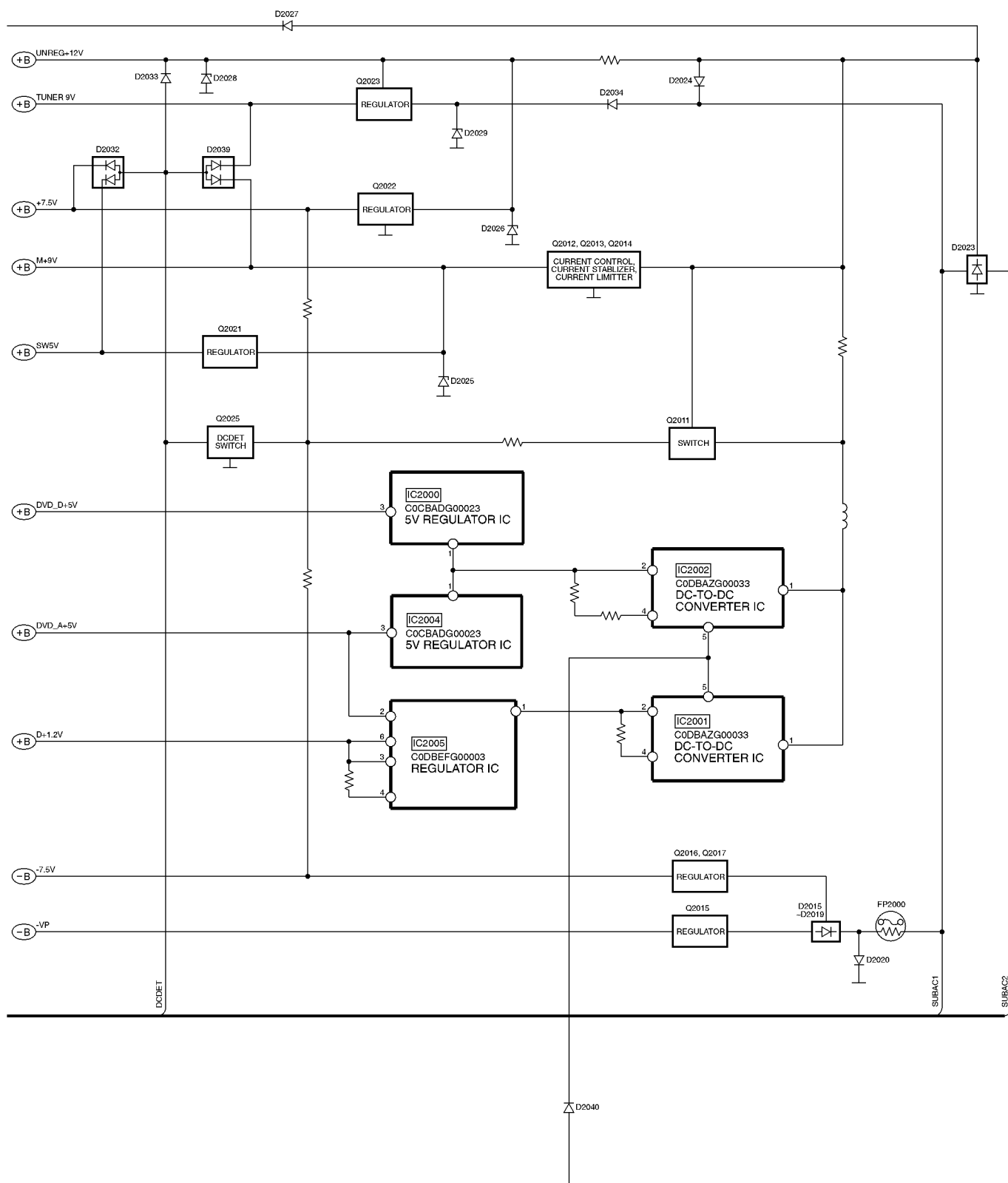












SIGNAL LINES

	: MAIN SIGNAL LINE		: DVD AUDIO SIGNAL LINE		: AUX SIGNAL LINE
	: CD-DA (AUDIO / VIDEO) SIGNAL LINE		: DVD VIDEO SIGNAL LINE		: FM/AM SIGNAL LINE
() Indicates the Pin No. of Right Channel.					
NOTE : Signal Lines are applicable to the Left Channel only.					

21 Schematic Diagram

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

Note:

S901	: PLAY switch
S902	: OPEN switch
S6000	: OPEN/CLOSE switch
S6002	: PLAY switch
S6003	: BACK SKIP switch
S6004	: STOP switch
S6005	: FORWARD SKIP switch
S6011	: SELECTOR switch
S6012	: POWER switch
S6013	: RDS switch
S6014	: SFC switch
S6015	: SUBWOOFER switch
VR6000	: 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.

(()) : CD < > : FM

• 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 !

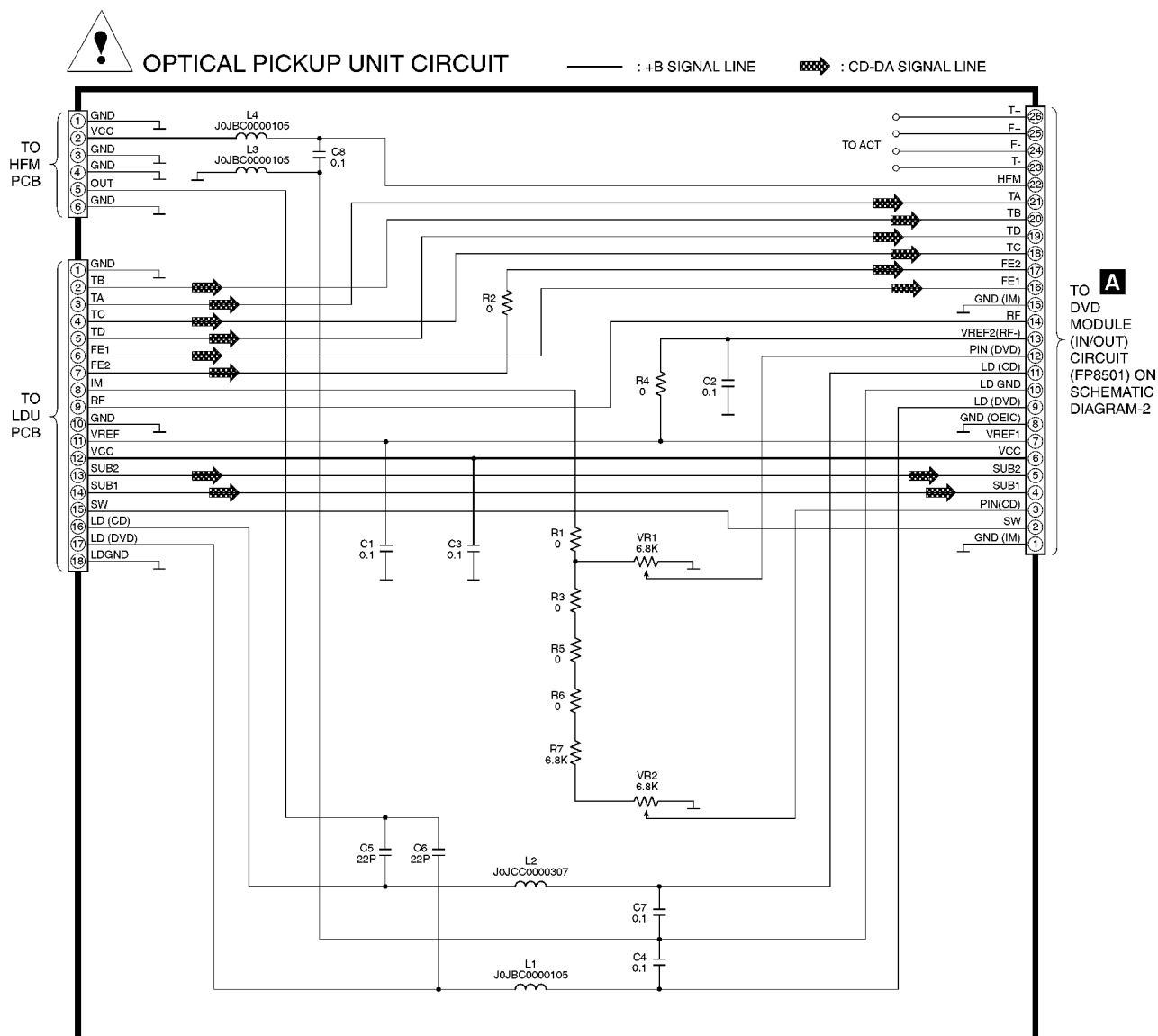
IC, LSI and VLSI are sensitive to static electricity.

Secondary trouble can be prevented by taking care during repair.

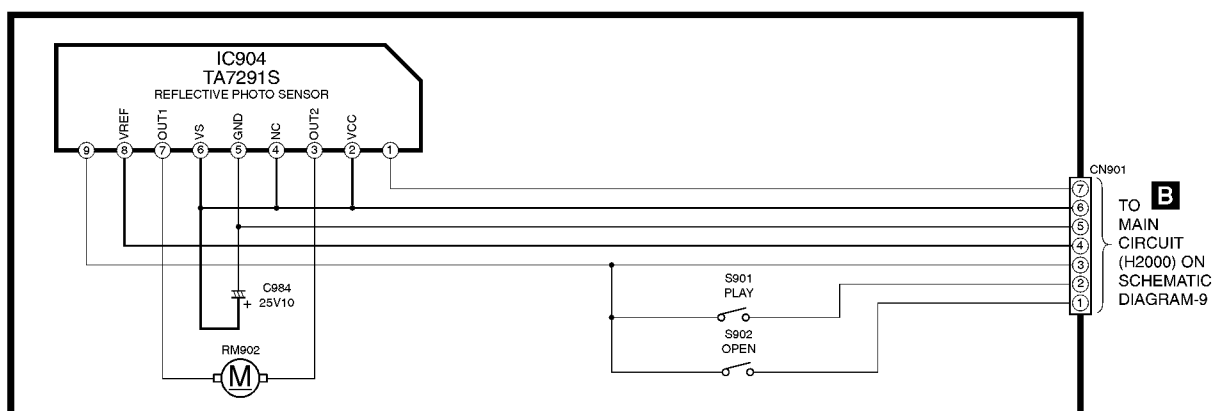
- Cover the parts boxes made of plastics with aluminium foil.
- Put a conductive mat on the work table.
- Ground the soldering iron.
- Do not touch the pins of IC, LSI or VLSI with fingers directly.

21.1. Optical Pickup Unit Circuit & (G) CD Tray Loading Circuit

SCHEMATIC DIAGRAM - 1

**G**

CD TRAY LOADING CIRCUIT



21.2. (A) DVD Module (In/Out) Circuit

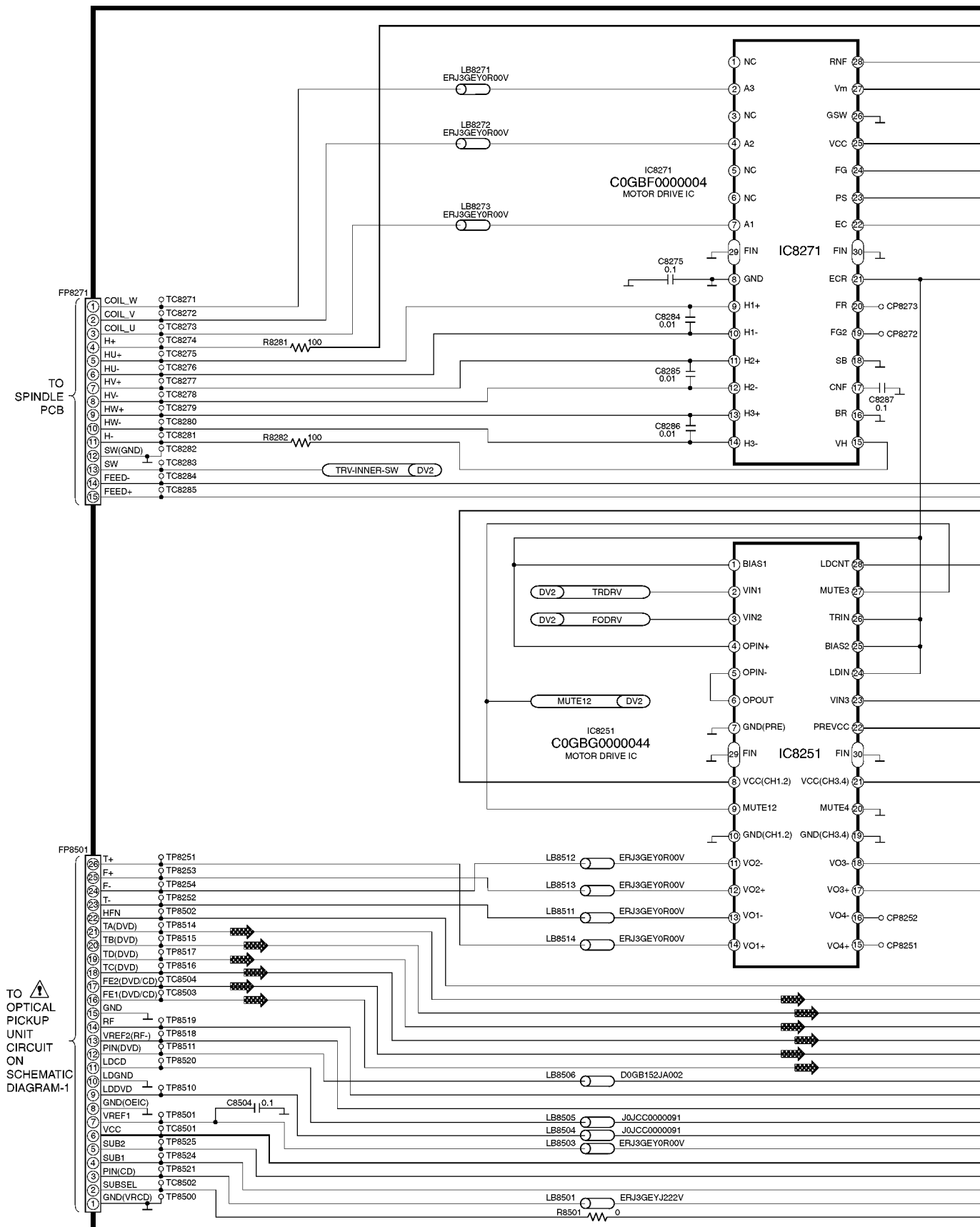
SCHEMATIC DIAGRAM - 2

A

DVD MODULE (IN/OUT) CIRCUIT

— : +B SIGNAL LINE

▨ : CD-DA SIGNAL LINE



SCHEMATIC DIAGRAM - 3

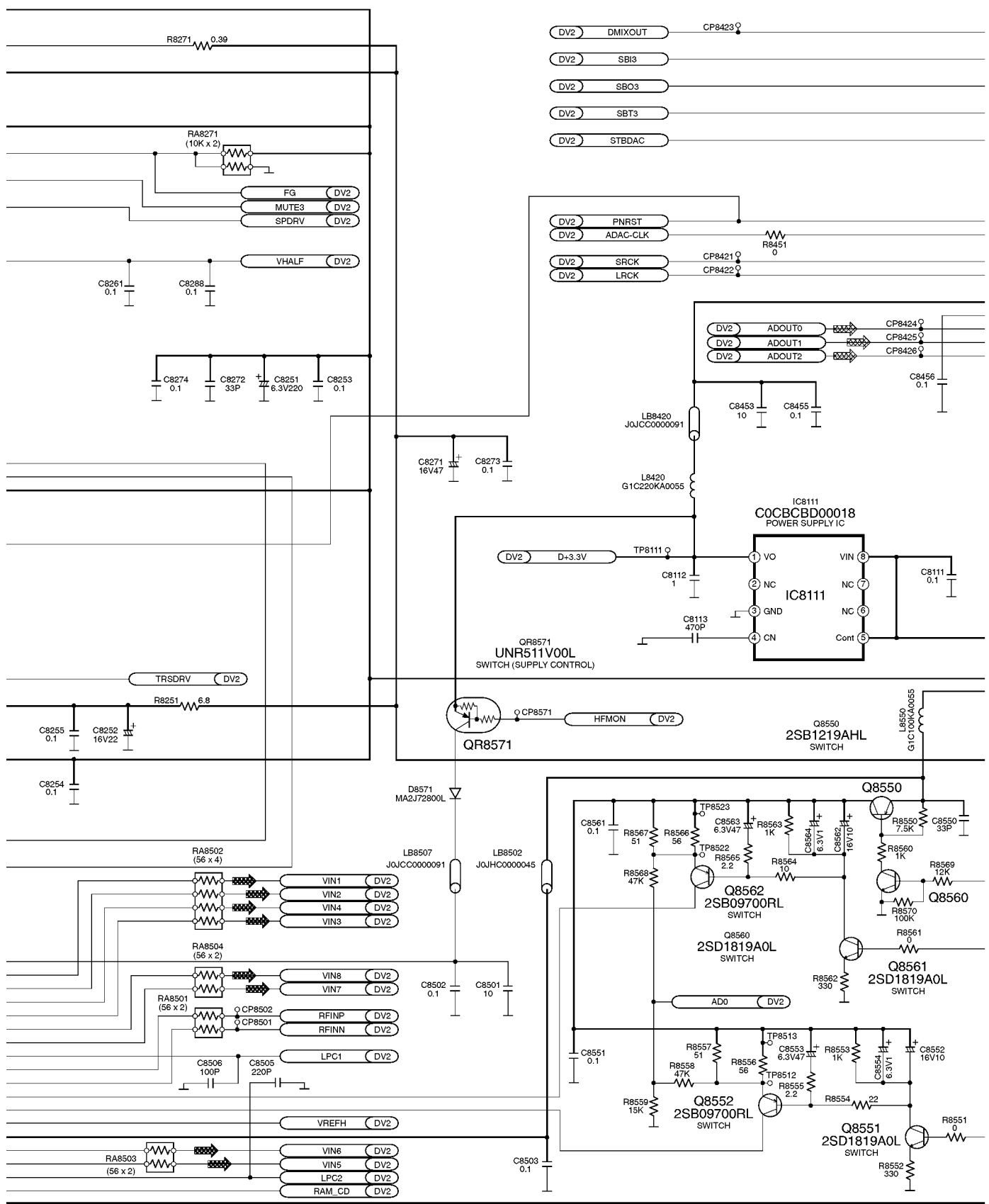
A

DVD MODULE (IN/OUT) CIRCUIT

— : +B SIGNAL LINE

⊞ : DVD AUDIO SIGNAL LINE

⊞ : CD-DA SIGNAL LINE



SCHEMATIC DIAGRAM - 4

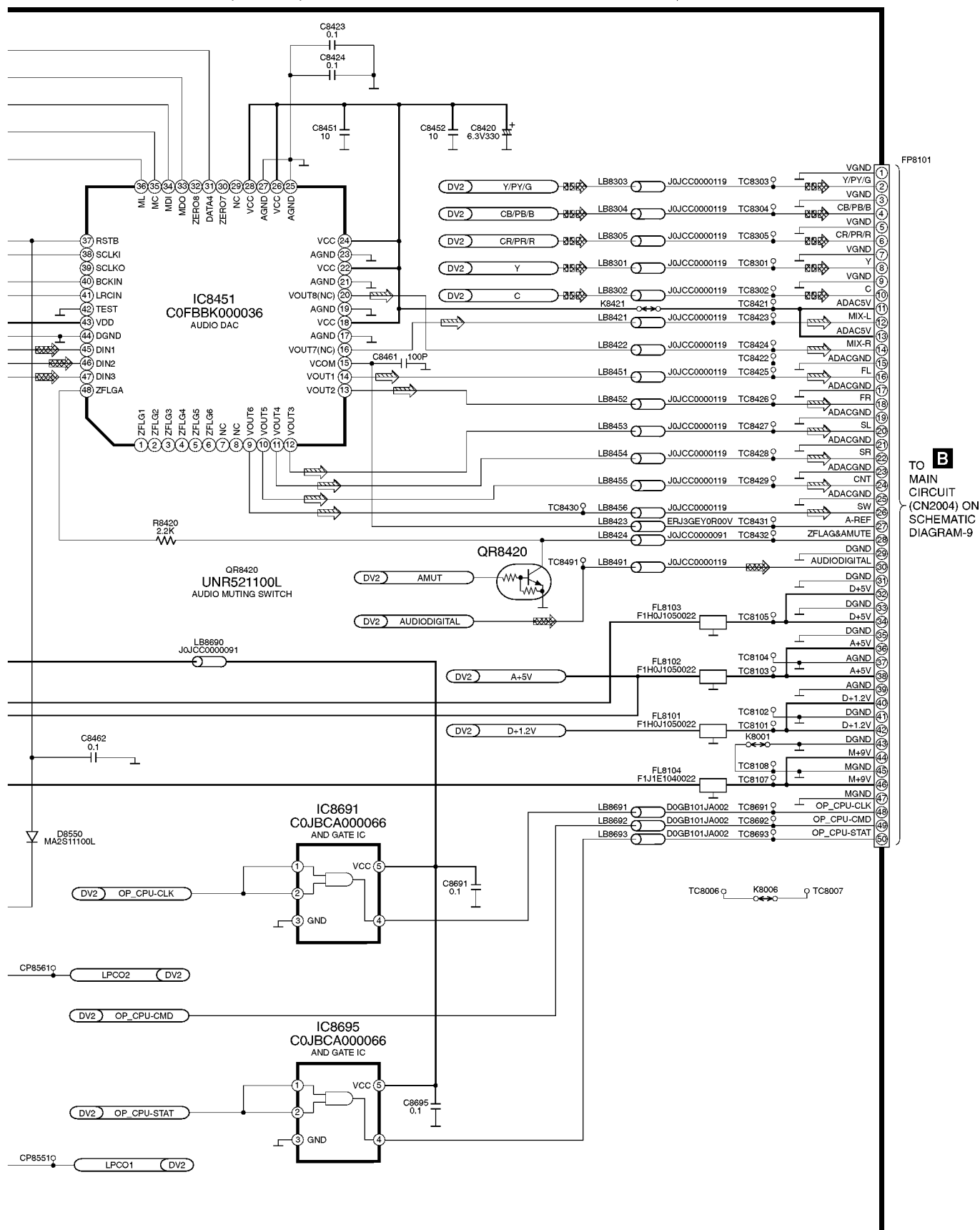
A DVD MODULE (IN/OUT) CIRCUIT

 : MAIN SIGNAL LINE

— : +B SIGNAL LINE

 : DVD AUDIO SIGNAL LINE

 : DVD VIDEO SIGNAL LINE



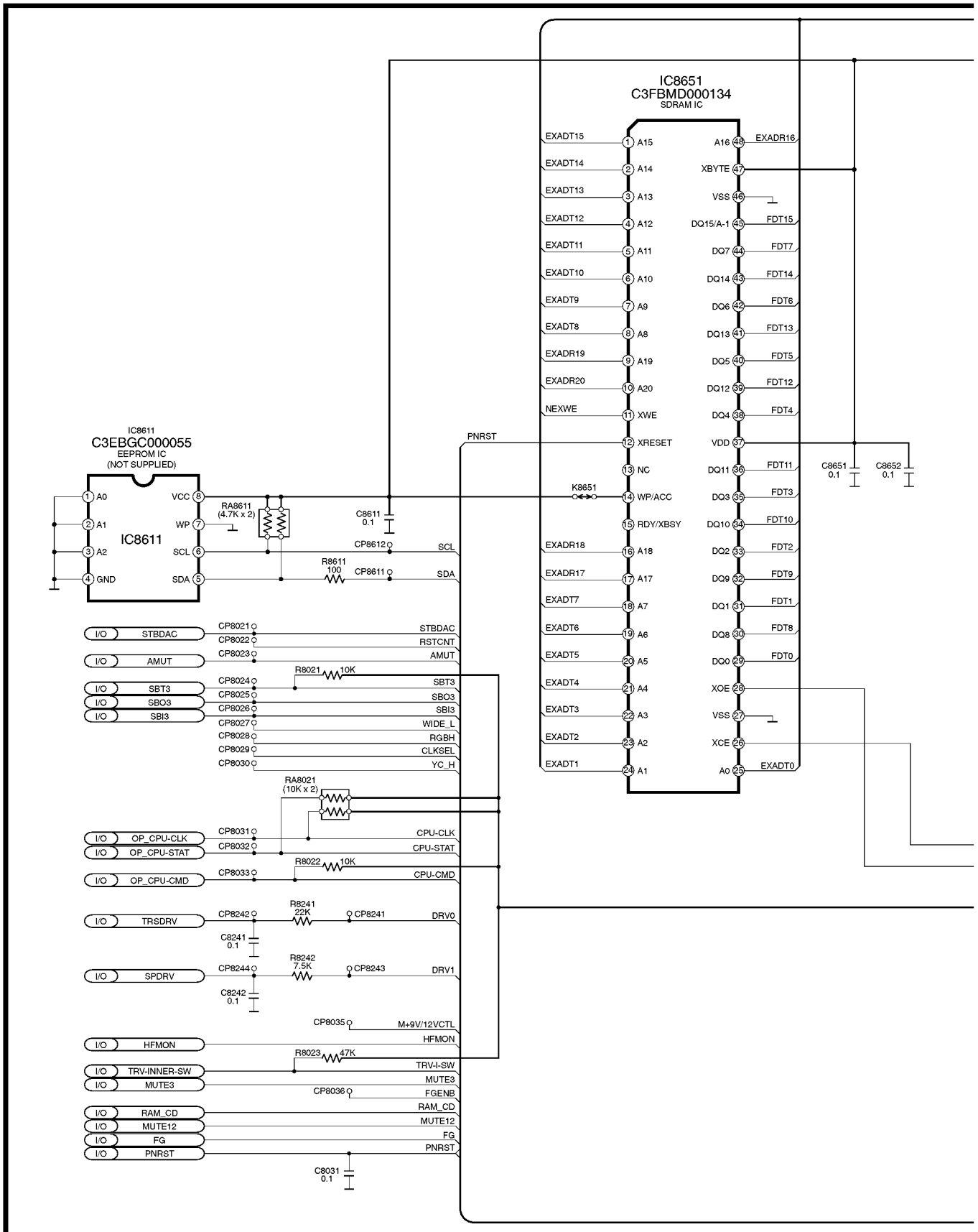
21.3. (A) DVD Module (DV2) Circuit

SCHEMATIC DIAGRAM - 5

A

DVD MODULE (DV2) CIRCUIT

— : +B SIGNAL LINE

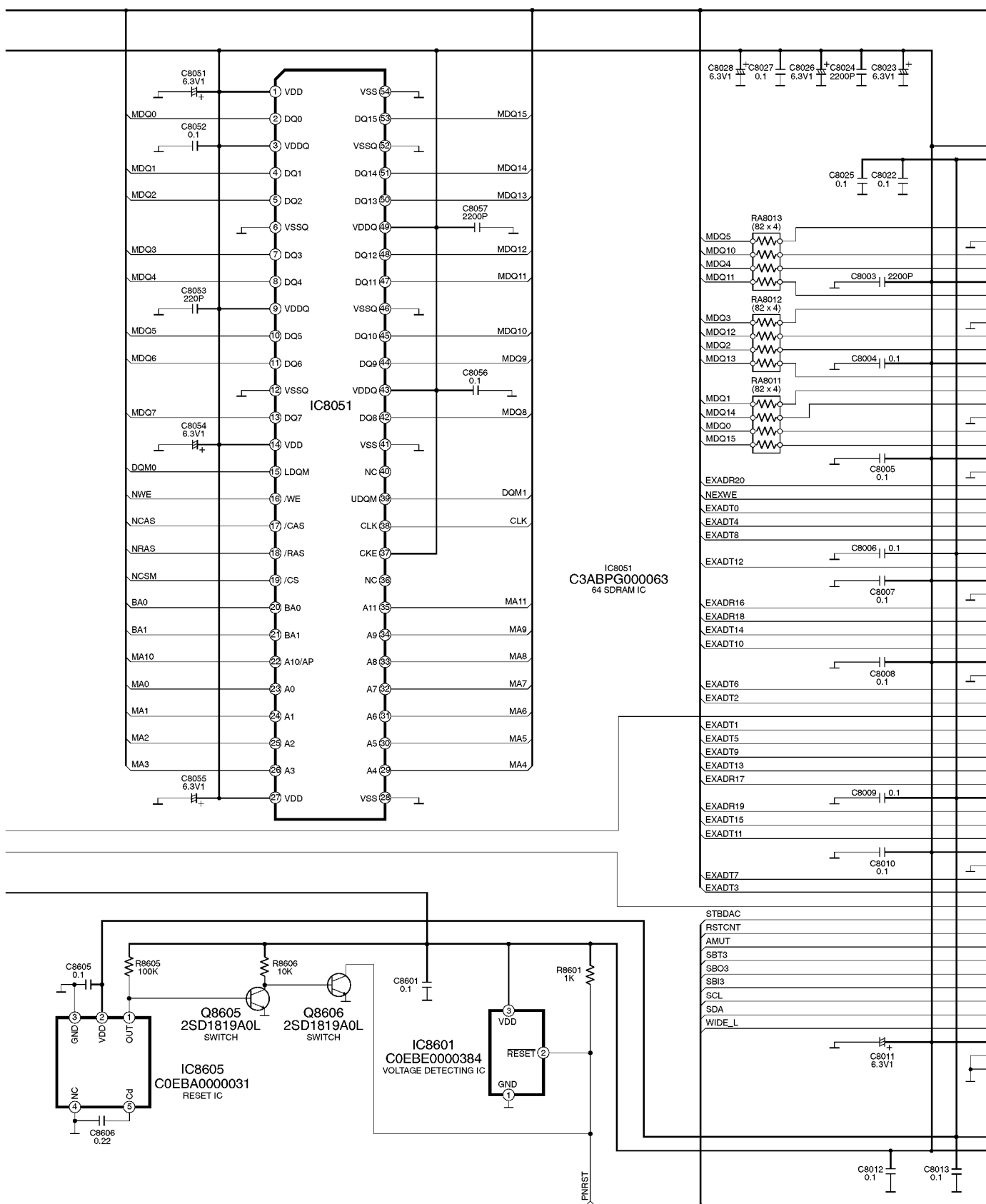


SCHEMATIC DIAGRAM - 6

A

DVD MODULE (DV2) CIRCUIT

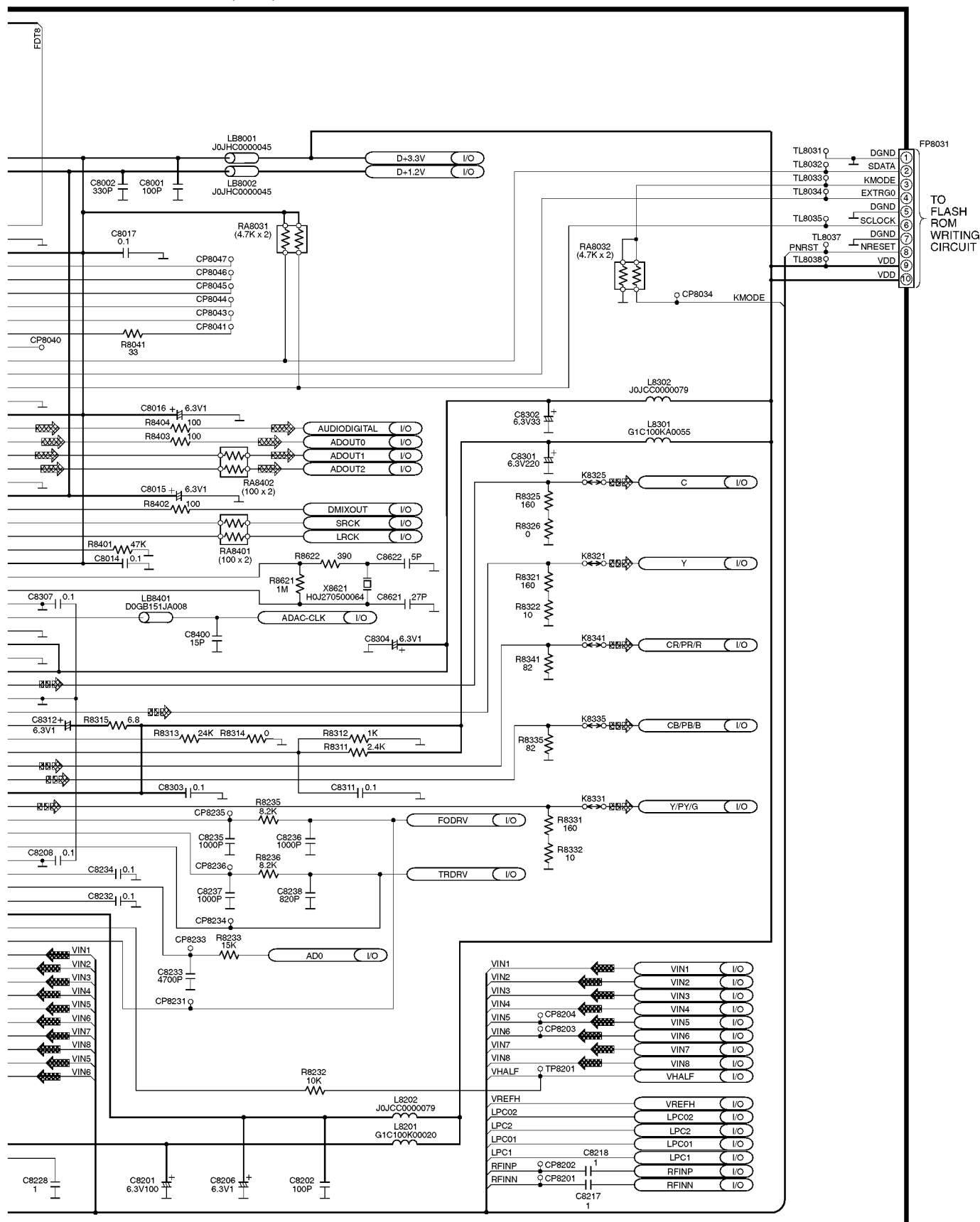
— : +B SIGNAL LINE



SCHEMATIC DIAGRAM - 8

A DVD MODULE (DV2) CIRCUIT

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



SCHEMATIC DIAGRAM - 11

B MAIN CIRCUIT

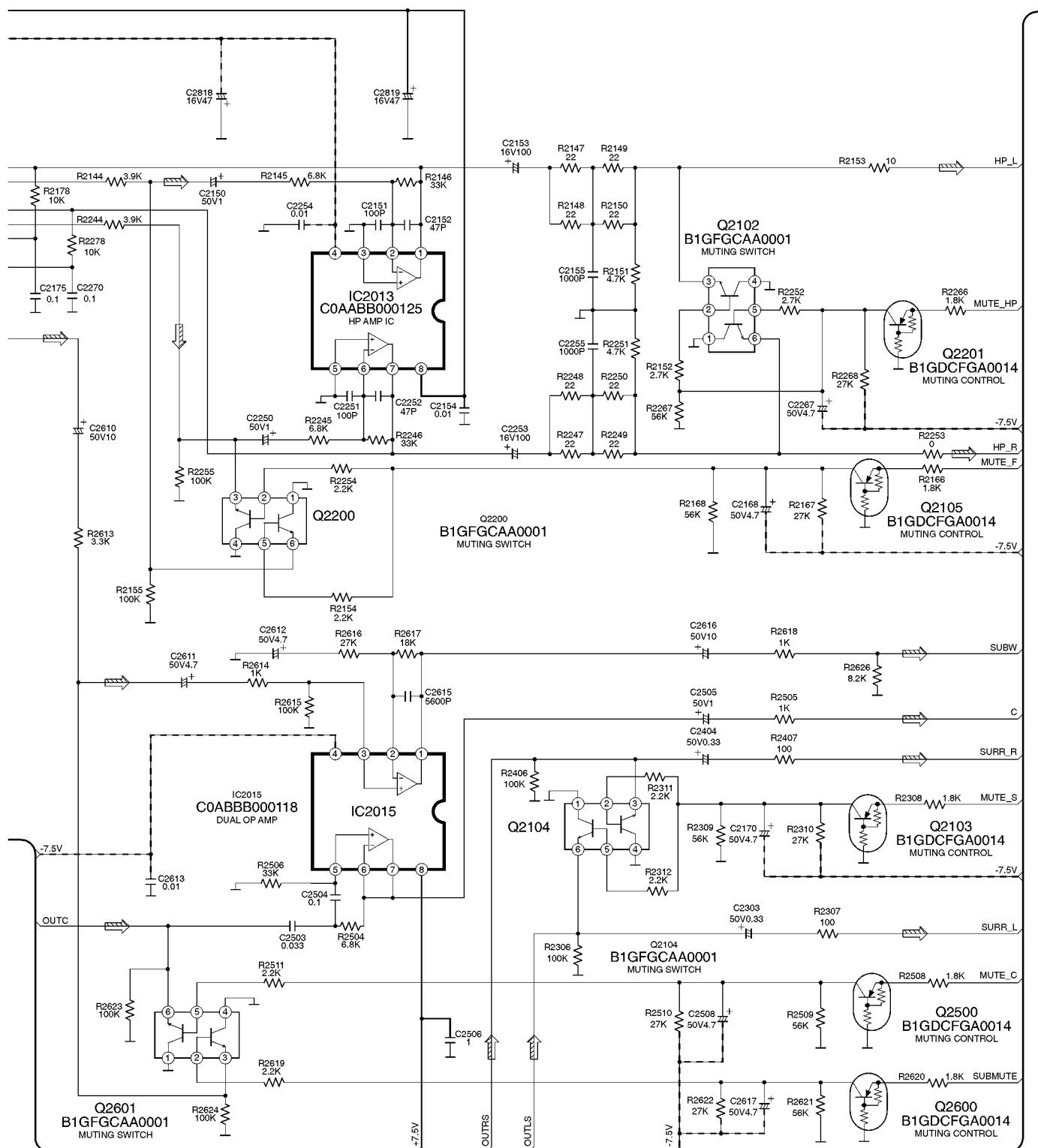
———— : +B SIGNAL LINE

```

- - - - : -B SIGNAL LINE

```

 : MAIN SIGNAL LINE



SCHEMATIC DIAGRAM - 12

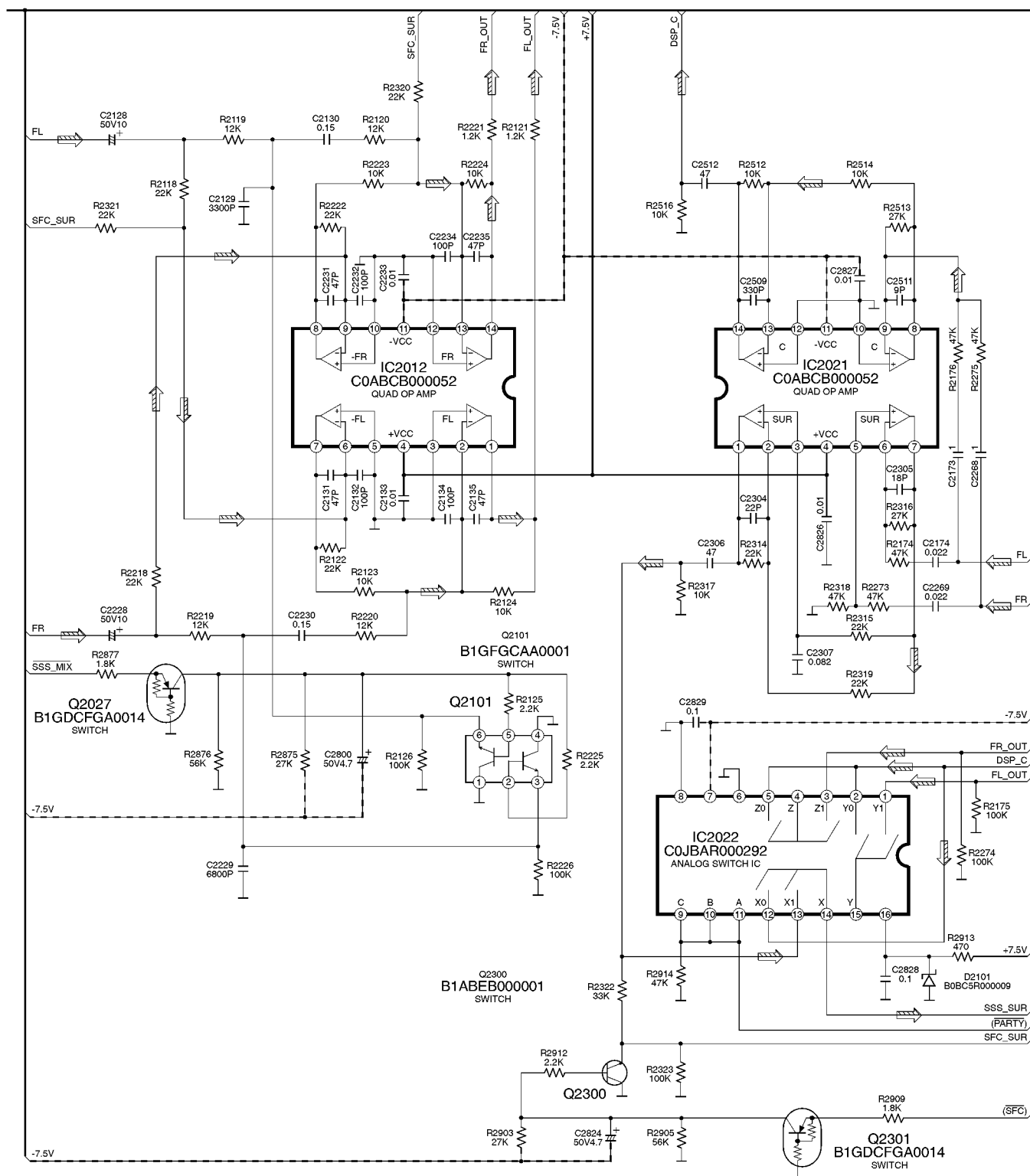
B MAIN CIRCUIT

———— : +B SIGNAL LINE

```

- - - - : -B SIGNAL LINE

```

 : MAIN SIGNAL LINE

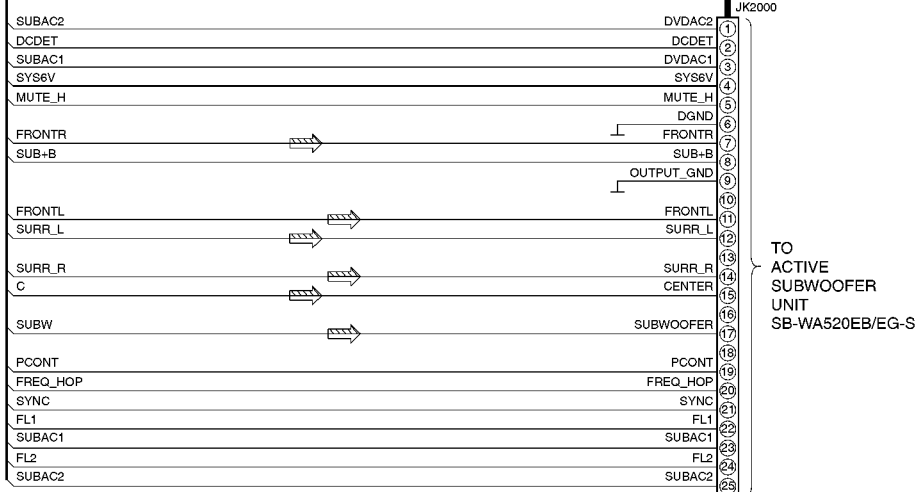
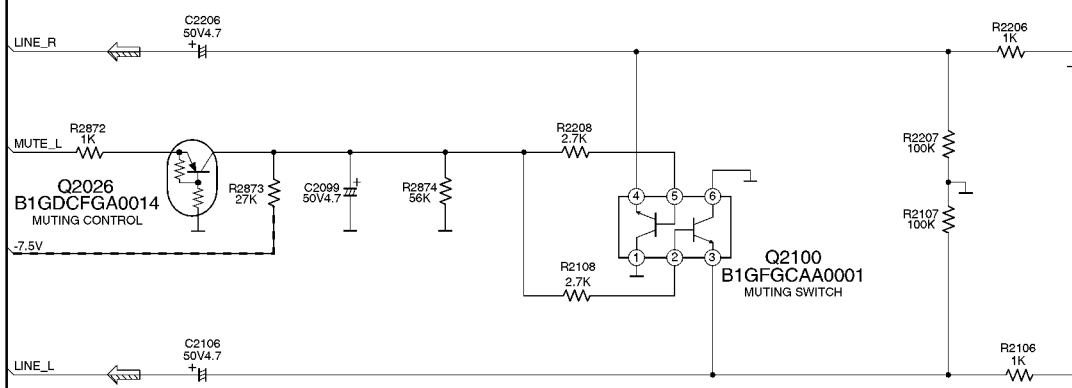
SCHEMATIC DIAGRAM - 13

B

MAIN CIRCUIT

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

⇒ : MAIN SIGNAL LINE

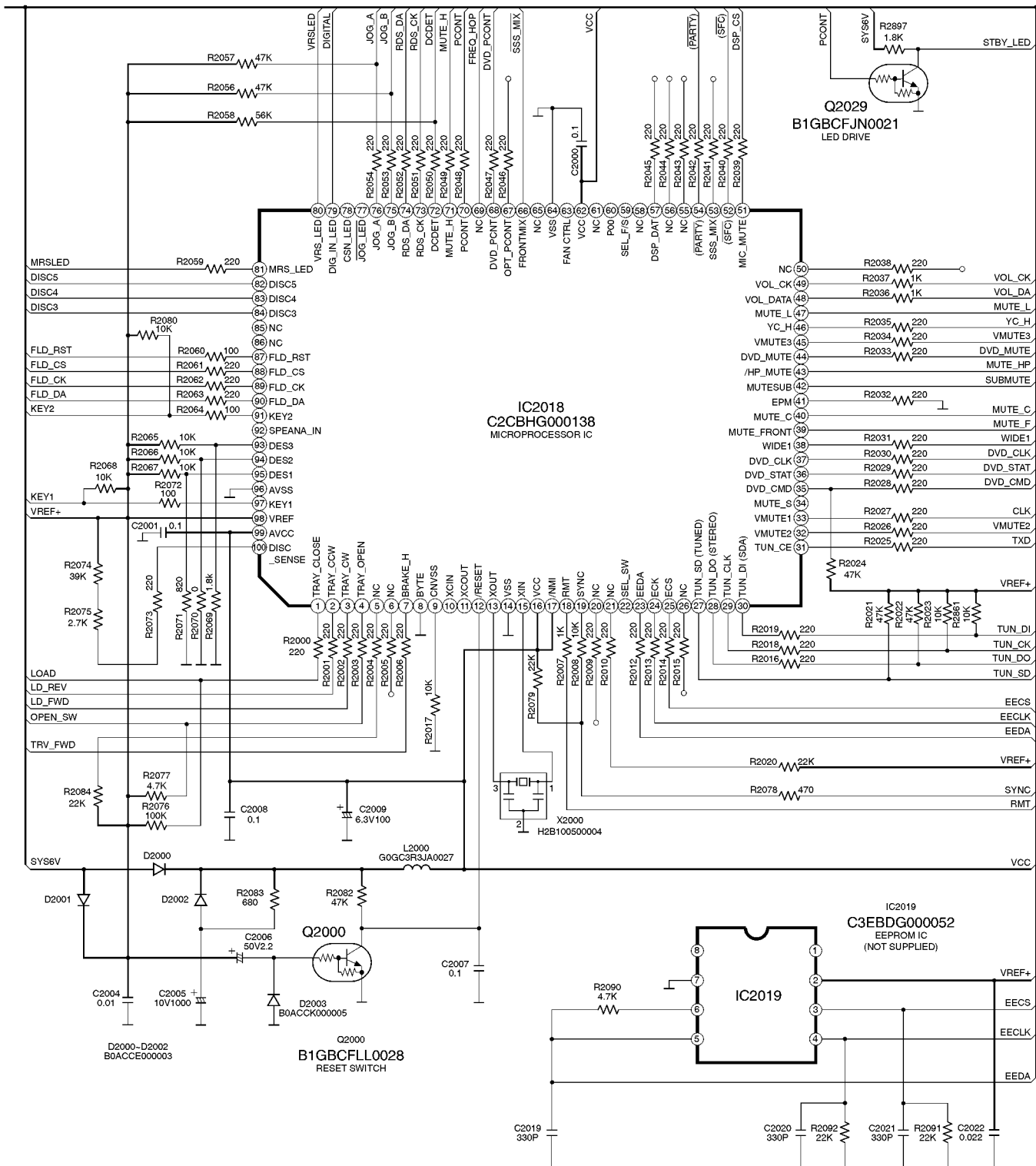


SCHEMATIC DIAGRAM - 14

B

MAIN CIRCUIT

— : +B SIGNAL LINE

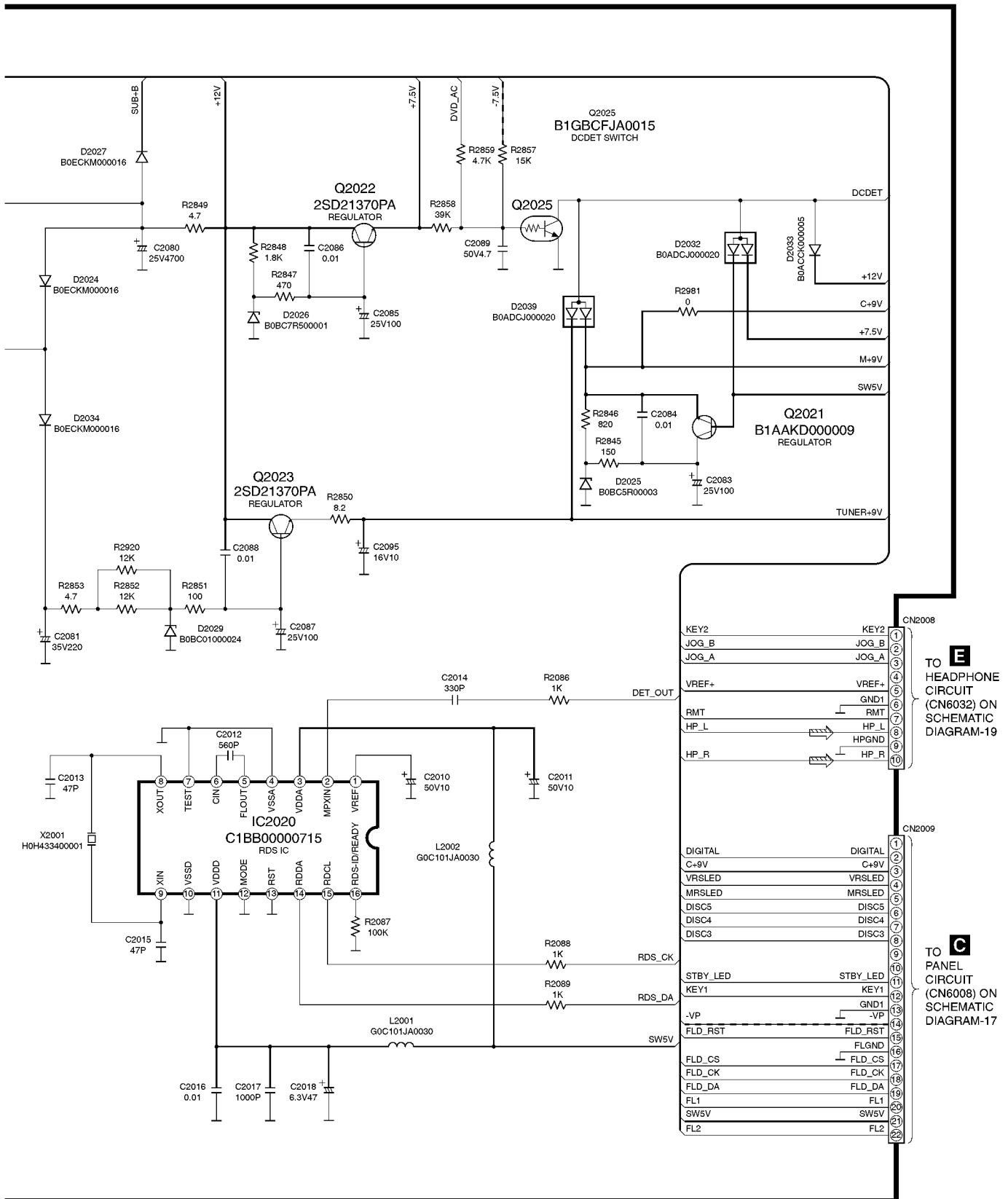


SCHEMATIC DIAGRAM - 16

B MAIN CIRCUIT

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

⇒ : MAIN SIGNAL LINE

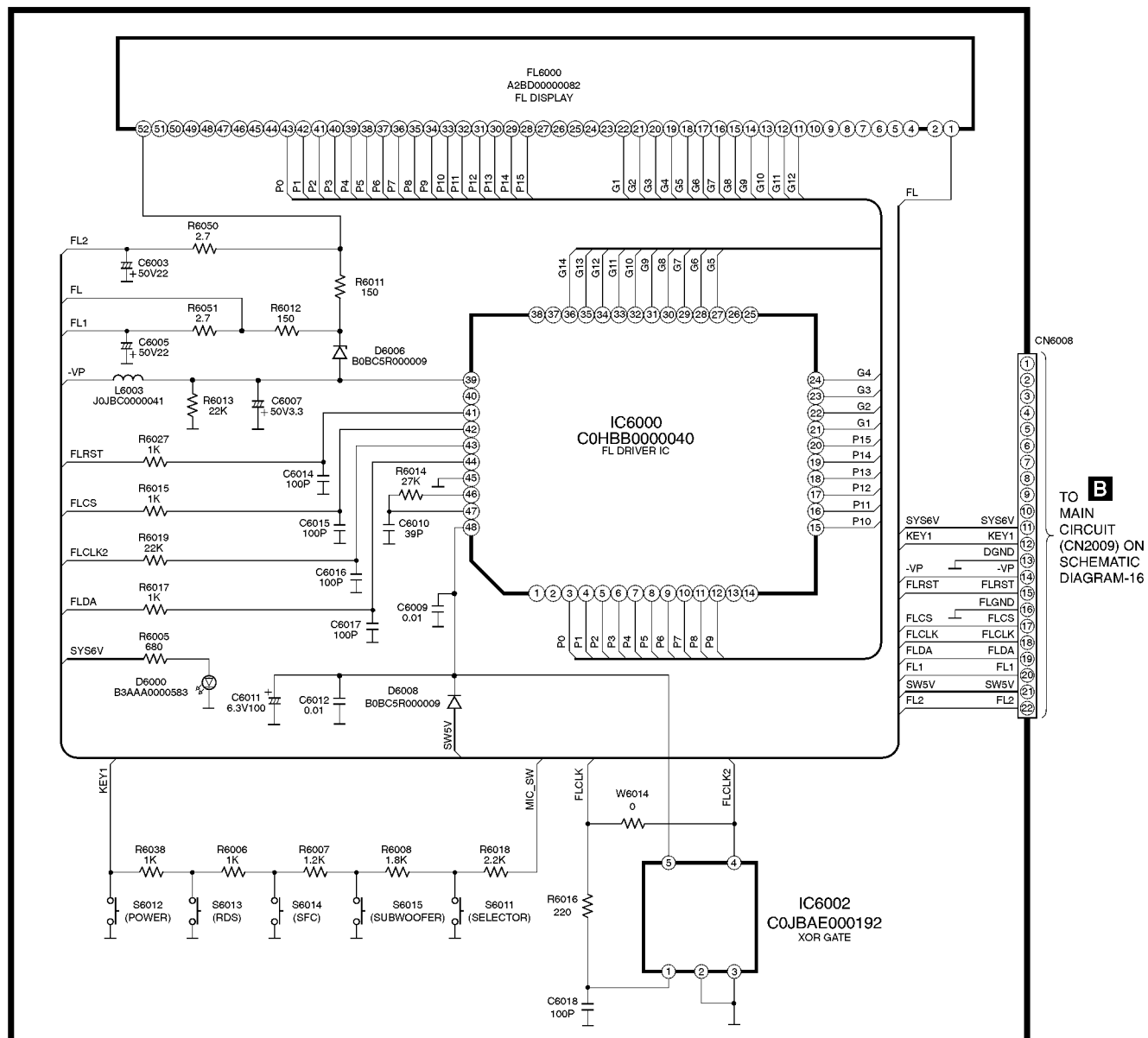


21.5. (C) Panel Circuit

SCHEMATIC DIAGRAM-17

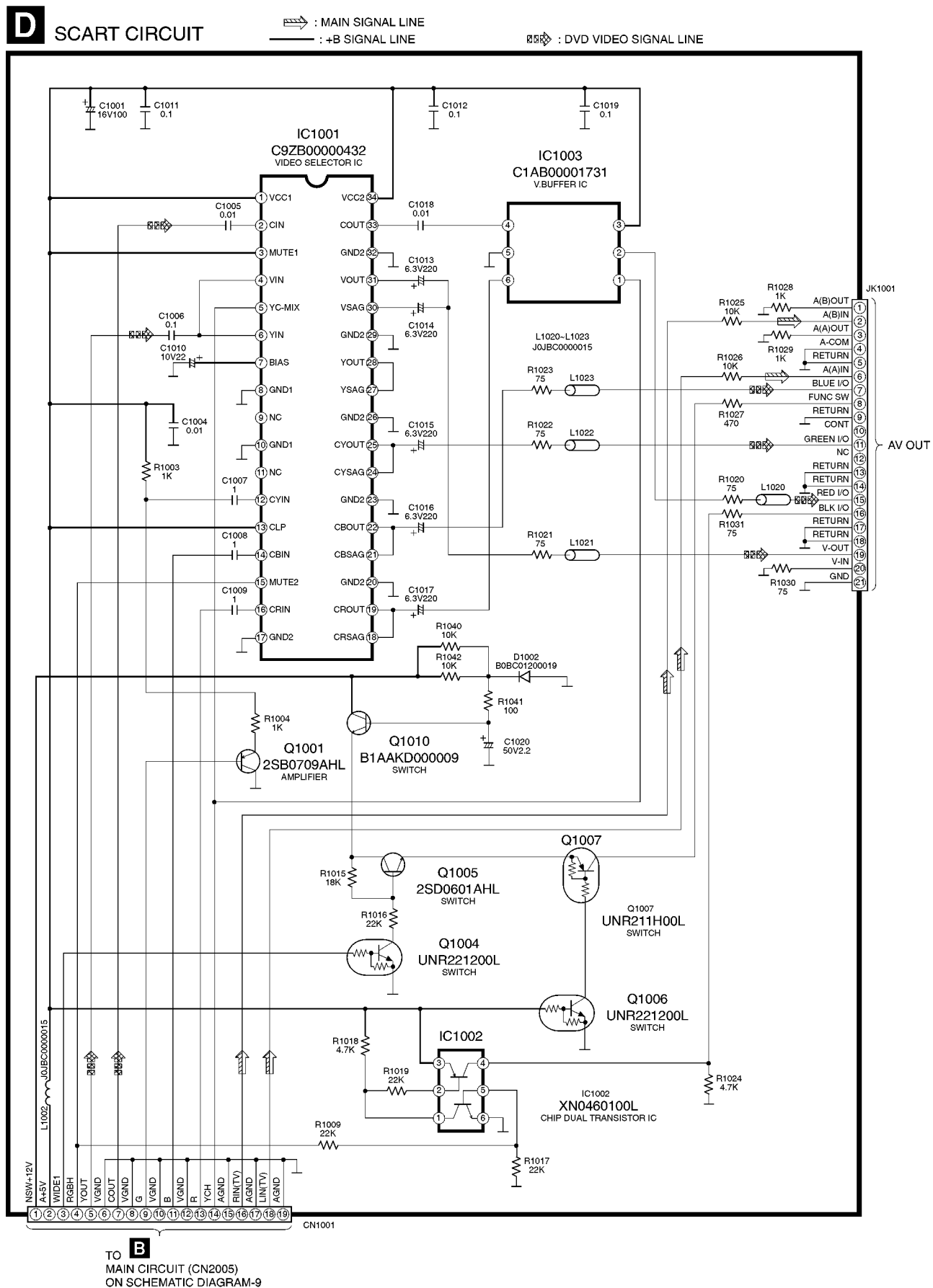
C PANEL CIRCUIT

— : +B SIGNAL LINE



21.6. (D) Scart Circuit

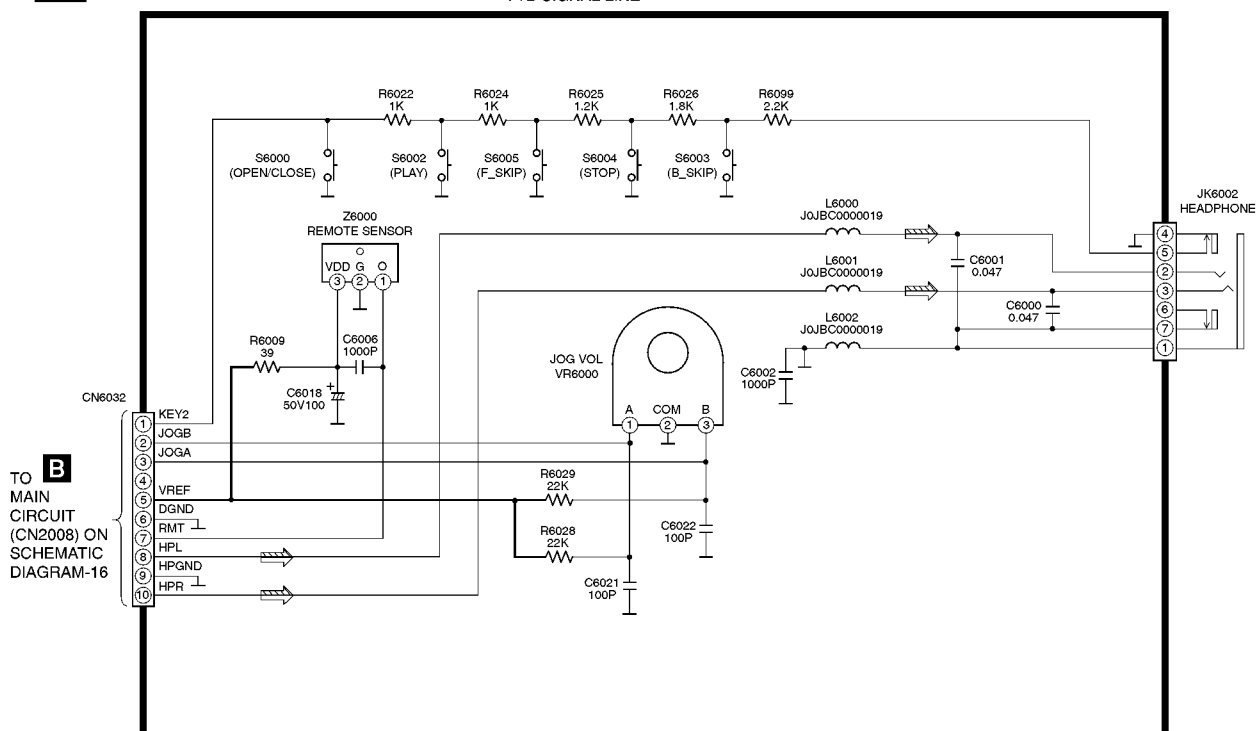
SCHEMATIC DIAGRAM-18



21.7. (E) Headphone Circuit

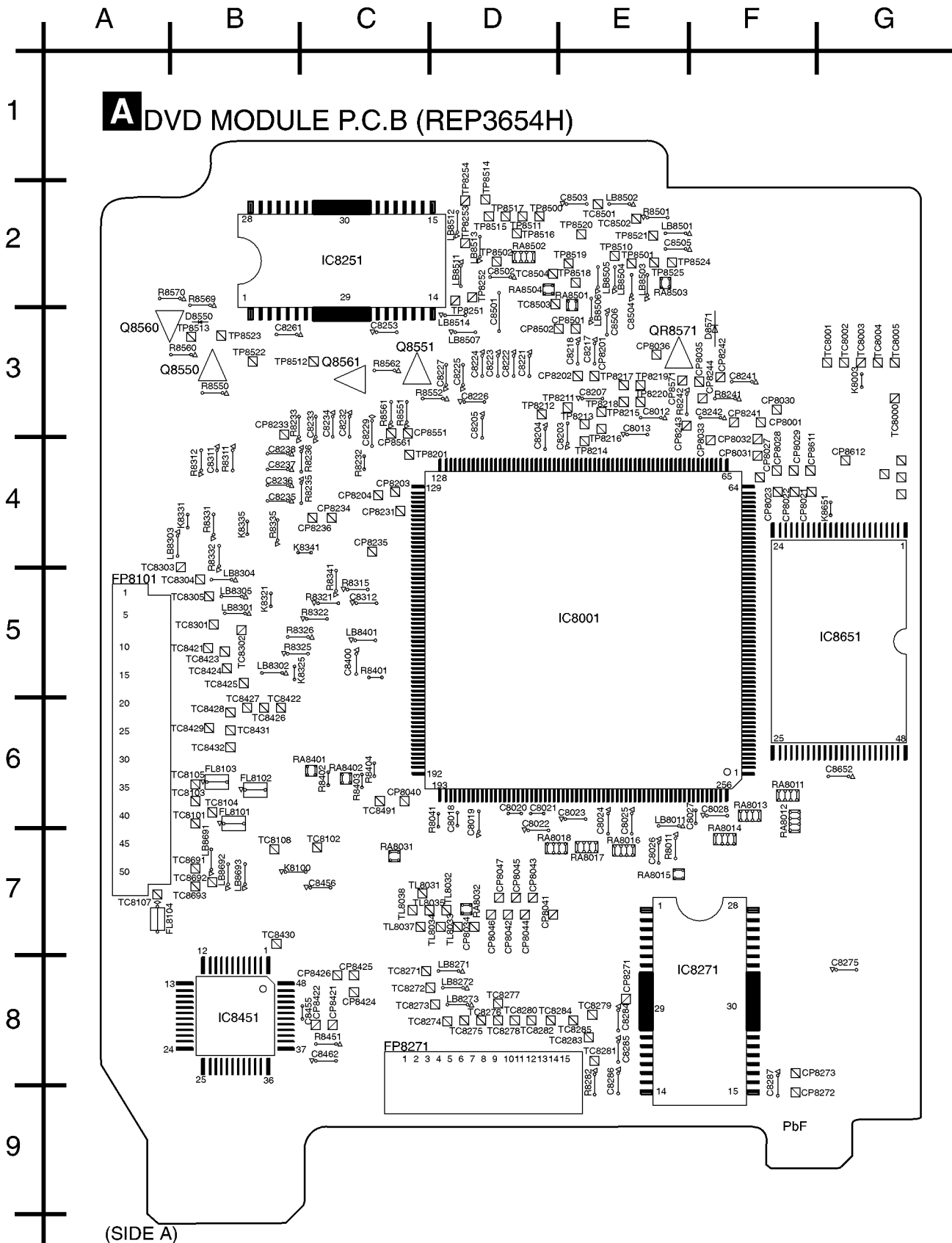
SCHEMATIC DIAGRAM-19

E HEADPHONE CIRCUIT

 : MAIN SIGNAL LINE
 : +B SIGNAL LINE


22 Printed Circuit Board

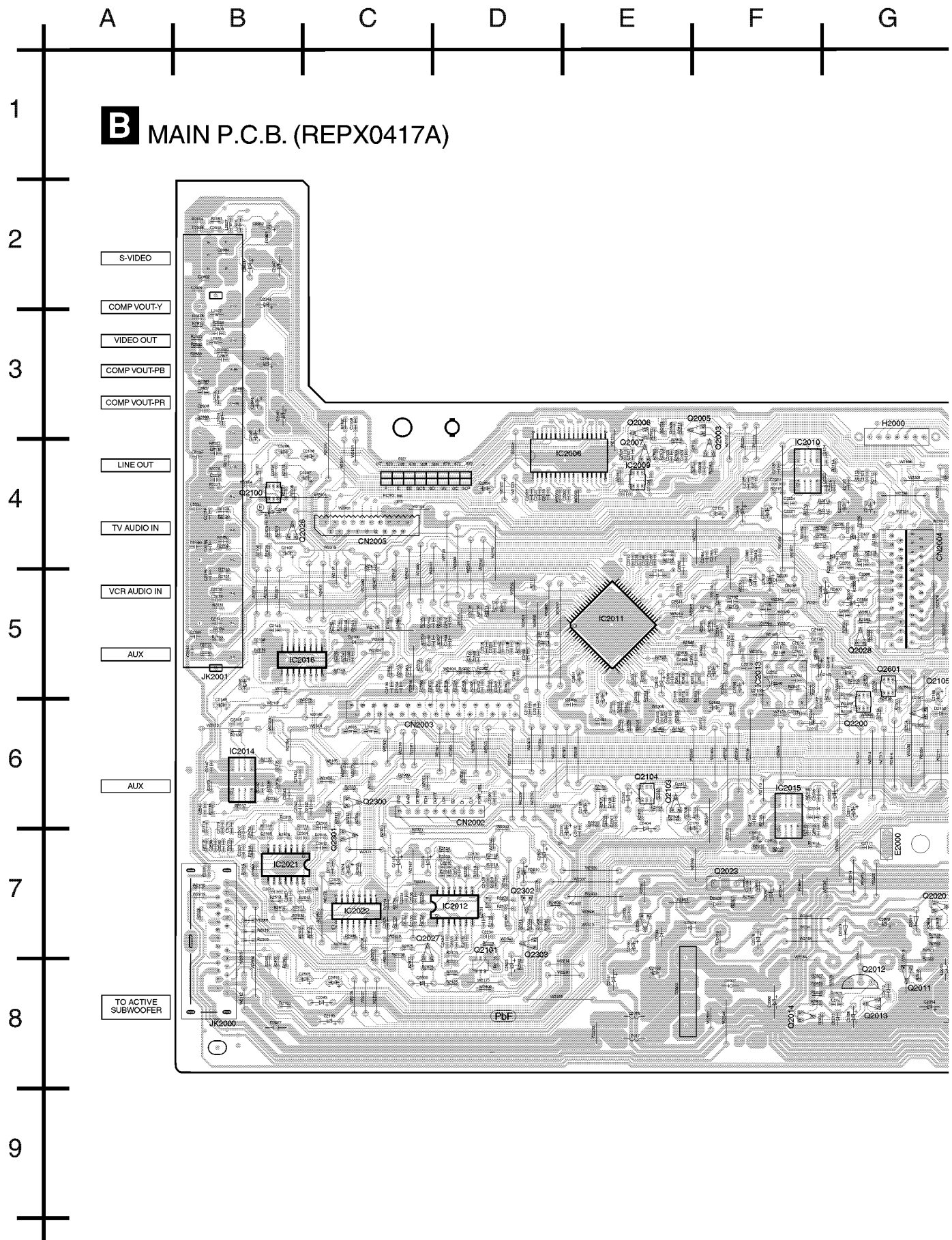
22.1. (A) DVD Module P.C.B. (Side A & B)



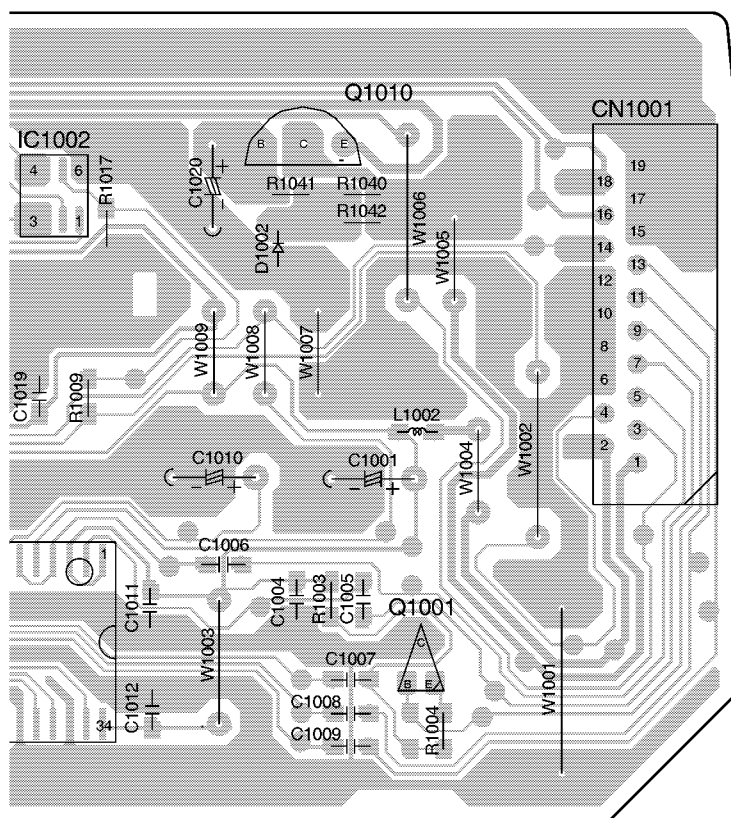
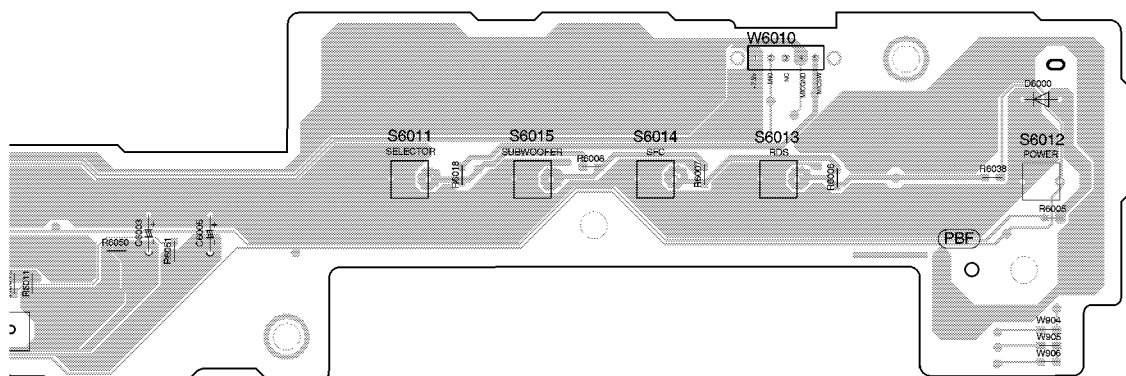
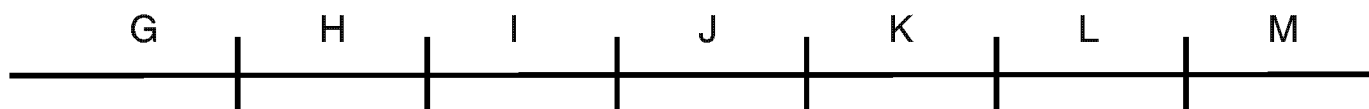
(SIDE B)



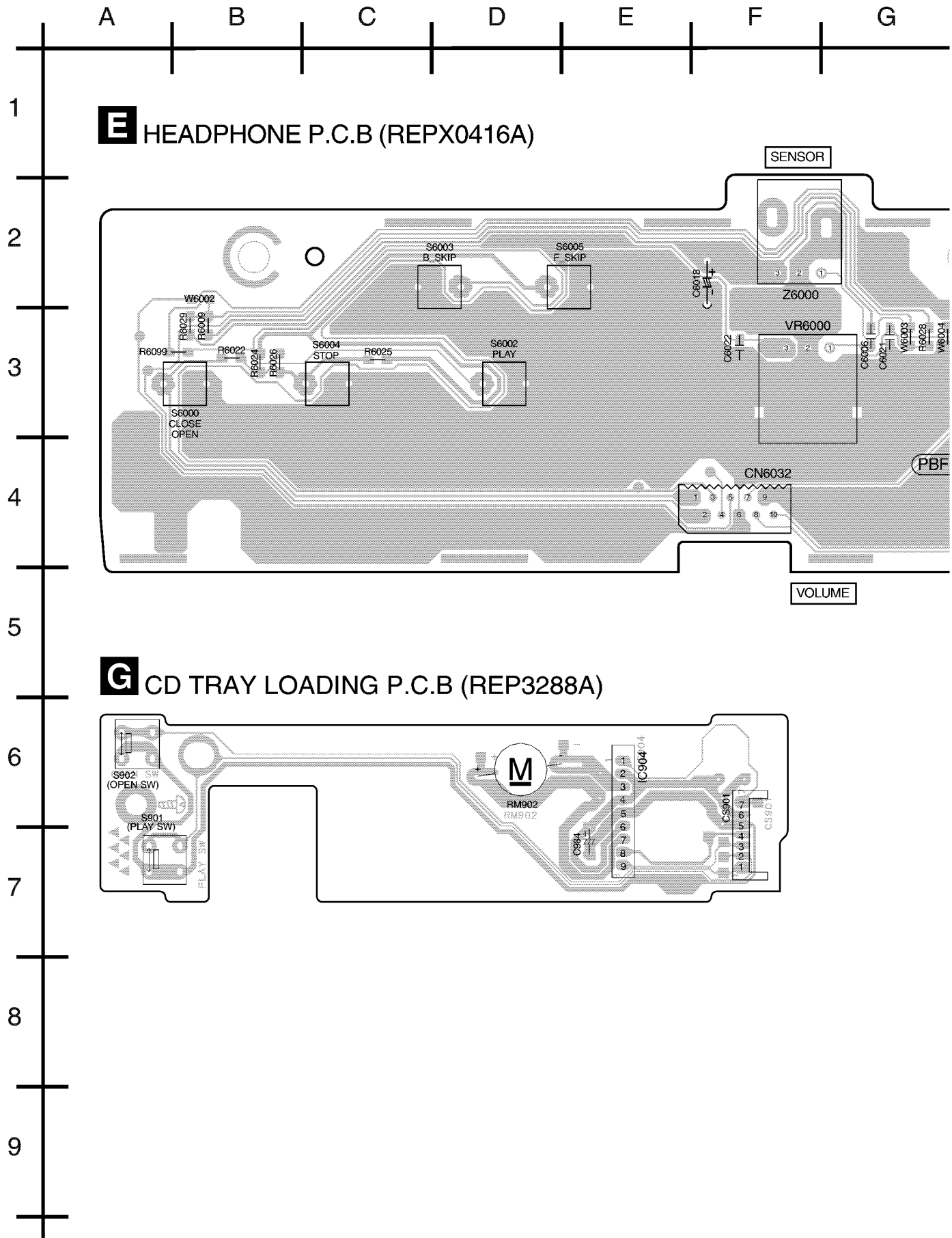
22.2. (B) Main P.C.B.

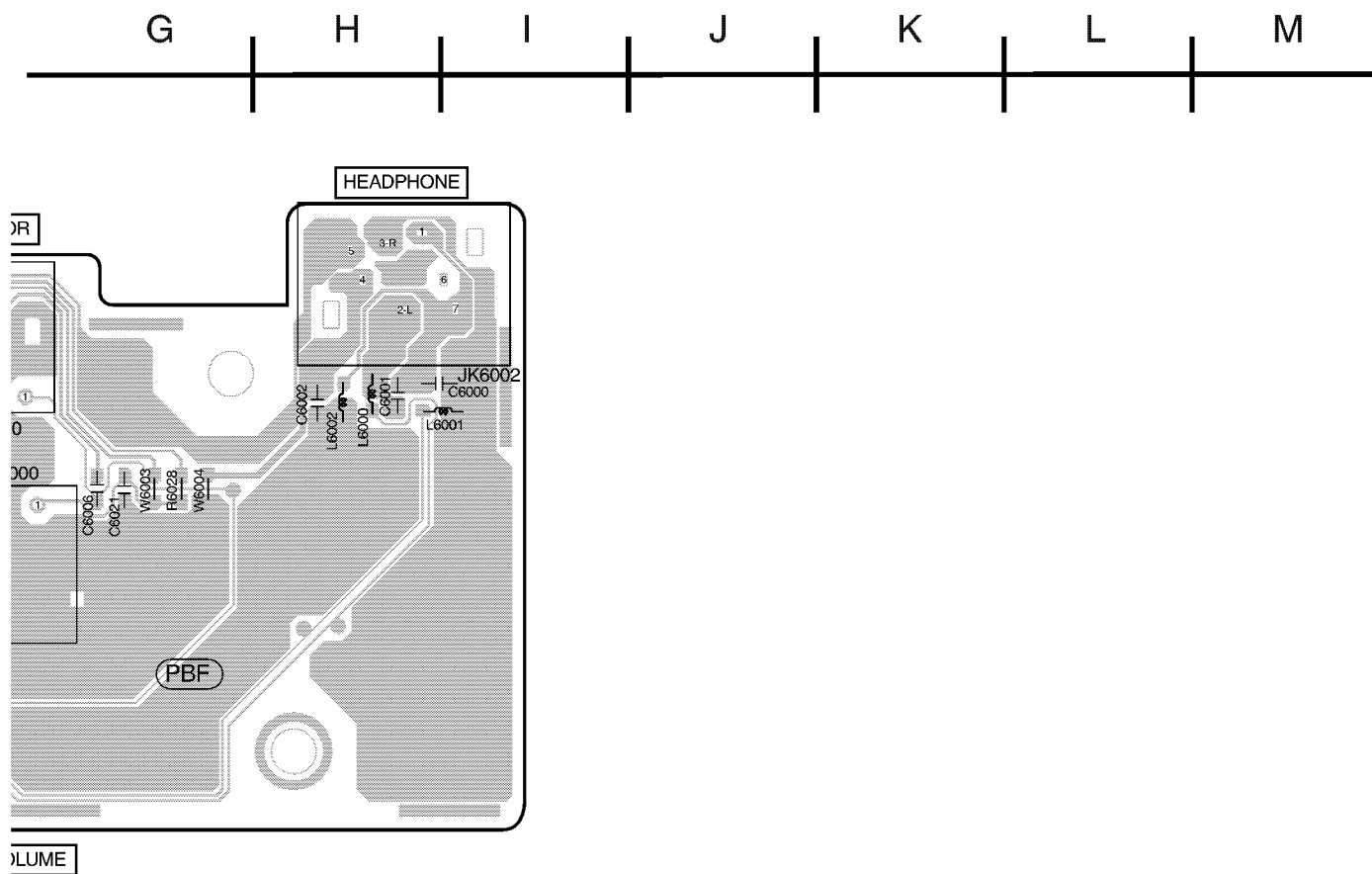




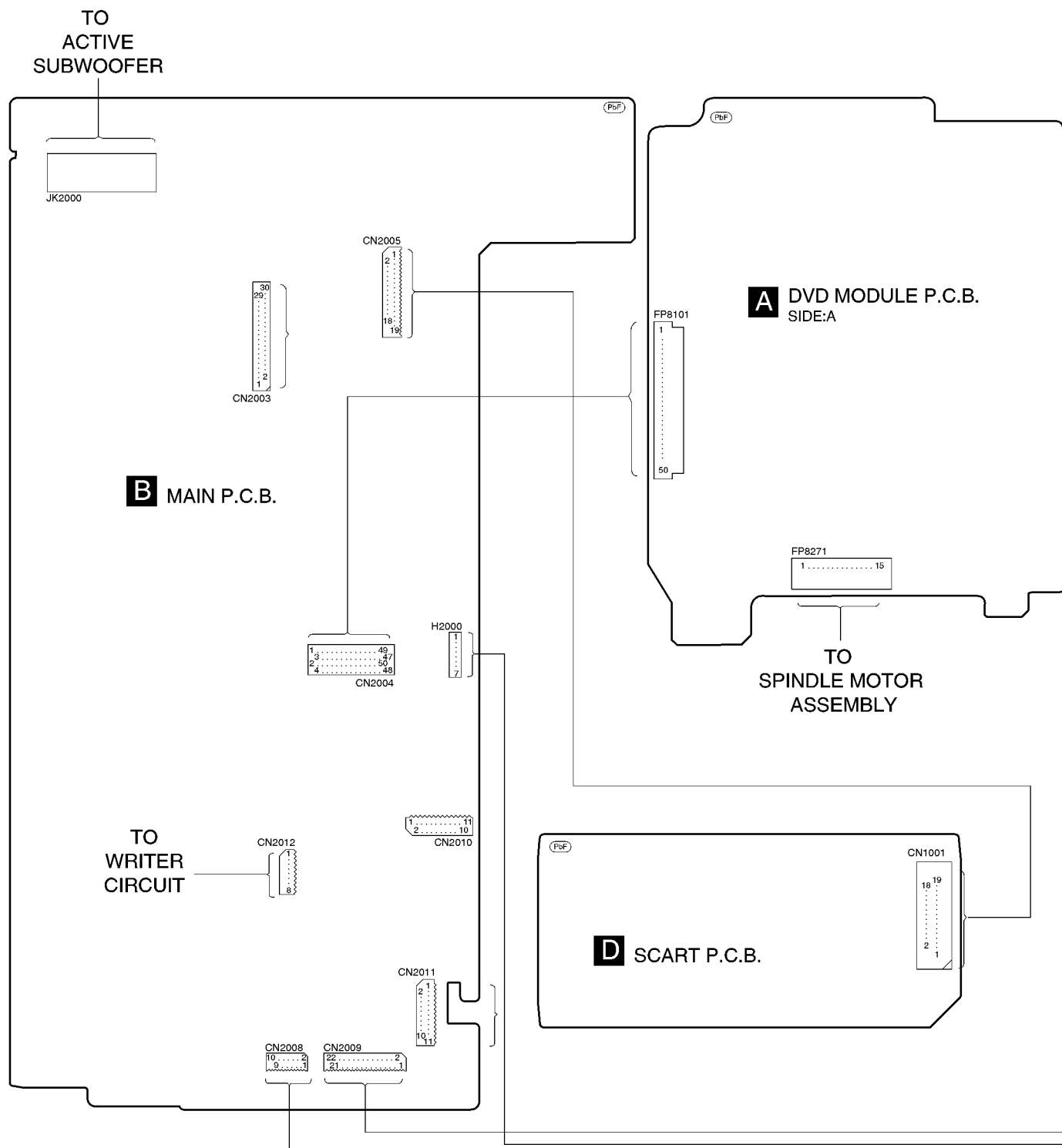


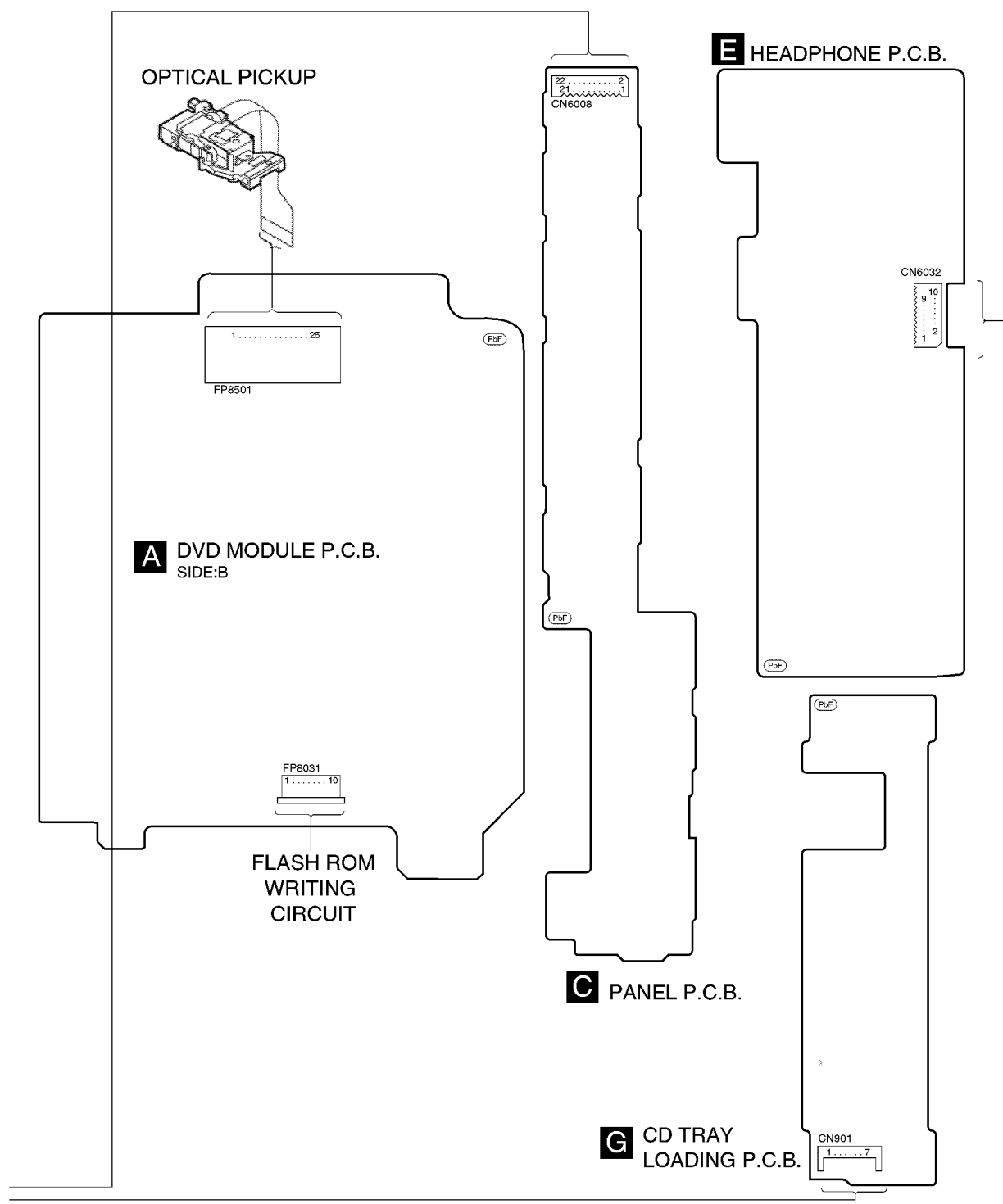
22.4. (E) Headphone P.C.B. & (G) CD Loading P.C.B.



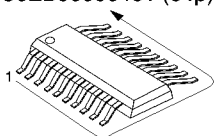
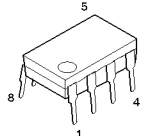
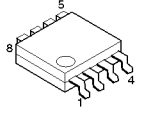
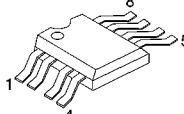
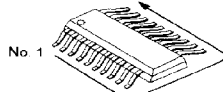
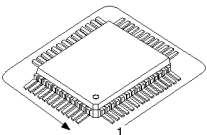
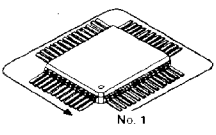
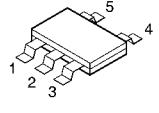
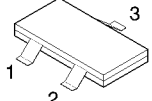
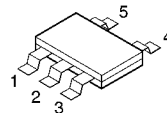
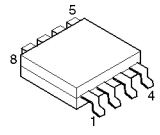
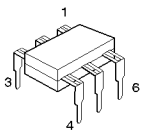
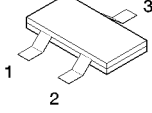
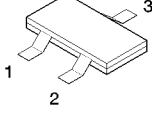
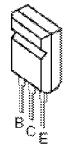
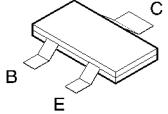
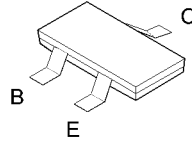
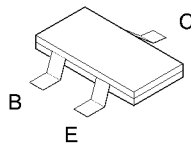
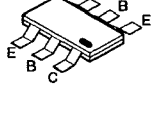
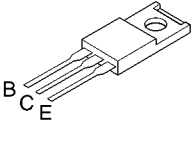
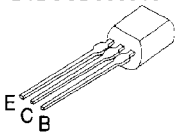
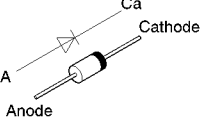
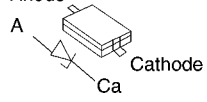
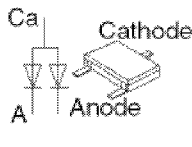
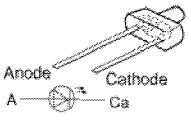
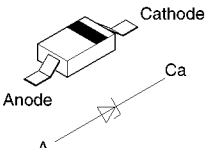
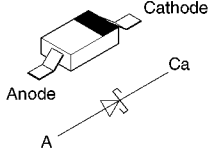
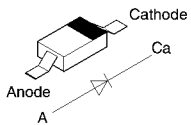
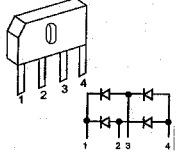
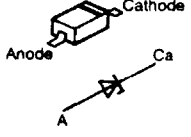
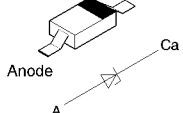


23 Wiring Connection Diagram





24 Illustration of IC's, Transistors and Diodes

C0JBAR000292 (16p) C3ABPG000063 (54p) C0GBF0000004 (16p) C9ZB00000431 (34p) 	C0AABB000125 	C0ABBB000118 	C0ABCB000052 	C1BB00000715(16P) 
C0FBBK000036 (48p) 	C0HBB0000040 (48P) 	C0JBAE000192 	C0EBE0000384 UNR211H00L 	C0EBA0000031 
C3EBGZ000001 	C1AB00001466 C1AB00001731 	2SD0601AHL UNR221200L B1GBCFLL0028 B1GBCFJN0021 B1ABCF000131 B1GDCFGA0014 B1GBCFJA0015 	B1GDCFGA0014 B1ABEA000001 	2SD21370PA 
2SD1819A0L UNR521100L B1ADCF000001 UNR511V00L 	2SB1219AHL 2SB0709AHL 	2SB09700RL 	B1GFGCAA0001 	KTA1046YU 
B1AAKD000009 KTA12710YTA B1BCCD000016 	B0EAKM000117 B0BC02900004 B0BC01000014 	B0ECKM000016 B0BC5R600003 B0BC5R000009 	B0ADCJ000020 	B3AAA0000583 
B0ACCK000005 	MA2J72800L MA2S11100L 	B0ACCE000003 	B0FBAM000010 	B0ACCK000005 
B0BC7R500001 B0BC9R000008 				

25 Terminal Function of IC's

25.1. IC2018(C2CBHG000138): Microprocessor

Pin No.	Mark	I/O	Function
1	TRY_CLOSE	I	Loading Mecha Close Sw (L: Sw ON)
2	TRAY_CCW	O	Terminal for tray control 1
3	TRAY_CW	O	Terminal for tray control 2
4	TRY_OPEN	I	Loading Mecha Open SW (L: Sw ON)
5	N.C.	-	No connection
6	N.C.	-	No connection
7	BRAKE_H	I/O	Terminal for tray control 3
8	BYTE	-	VSS (GND)
9	CNVss	-	VSS (GND)
10	XCIN	I	Sub Clock Input (32.768 kHz)
11	XCOUT	O	Sub clock Output (32.768 kHz)
12	RESET	I	System Reset Input
13	Xout	O	Main clock output (8 MHz)
14	Vss	-	GND (0V)
15	XIN	I	Main clock Input (10MHz)
16	Vcc	-	Power supply (5V)
17	NMI	I	Connected to VCC, external interrupt I/P
18	RMT	I	Remocon Input
19	SYNC	I	AC failure detect input
20	N.C.	-	No connection
21	N.C.	-	No connection
22	PORT SEL	I	Port setting for selecting
23	EDA	I/O	DATA signal for the EEPROM
24	ECK	O	CLOCK signal for the EEPROM
25	ECS	O	LAT signal for the EEPROM
26	N.C.	-	No connection
27	TUN_SD	I	Signal DET Signal of Tuner
28	TUN_DO	I	DO-OUTPUT of Tuner
29	TUN_CLK	O	Clock for Tuner
30	TUN_DI	O	Data for Tuner
31	TU_CE	O	Latch Signal for Tuner
32	V_MUTE2	O	Mute signal 2 for video output
33	V_MUTE1	O	Mute signal 1 for video output
34	MUTE_S	O	Mute signal for surround Audio signal
35	DVD_CMD	O	CMD signal for the DVD Module
36	DVD_STATE	I	STATUS signal from the DVD module
37	DVD_CLK	I	CLK signal for the DVD Module
38	WIDE 1	O	Control Signal for the WIDE function
39	MUT_FRNT	O	Mute Signal for FRONT END
40	MUTE_C	O	Mute signal for CENTRE
41	EPM	I	For Flash
42	MUTE SUB	O	Subwoofer Mute Signal
43	HP_MUTE	O	Head Phone Mute Signal
44	DVD_MUTE	I	Signal from DVD module control mute circuit
45	V_MUTE 3 (RGB_H)	O	Mute signal 1 for video output
46	VMIX_Ctrl (YC_H)	O	Control signal for the video signal Mix
47	MUTE_L	O	MUTE signal for the Line output
48	VOL_DA	O	DATA signal for 6ch VOL ASP
49	VOL_CK	O	CLOCK signal for 6ch VOL ASP
50	N.C.	O	No connection
51	MIC_MUTE	O	Muting circuit for the MIC input
52	SFC	O	Signal for SFC Switch during Disco, Live, Hall

Pin No.	Mark	I/O	Function
53	SSS_MIX	O	Signal for SSS switch during Surround Function
54	PARTY	O	Signal for PARTY switch during PARTY mode
55	N.C.	O	No connection
56-61	EDA	I/O	EEPROM data input/ output
62	Vcc	-	Power supply 5.0V
63	FAN CTRL	O	FAN Control Output
64	VSS	-	GND (0V)
65-67	N.C.	O	No connection
68	DVD_PCNT	O	Control signal for the Power for the DVD MODULE
69	N.C.	-	No connection
70	PCONT	O	Control Signal for the Power Control Relay
71	MUTE_H	O	HIC MUTE
72	DC DET	I	Signal from the DC Detection circuit
73	RDS_CK	O	Clock signal from the RDS decoder
74	RDS_DAT	O	Data signal from the RDS decoder
75	JOG_B	I	Signal B from Volume JOG
76	JOG_A	I	Signal A from Volume JOG
77	JOG_LED	O	Reset Signal for the FL Driver
78	N.C.	-	No connection
79-83	TUN_CE	O	PLL CE output
84	MIC_SW	O	Control for Mic Switch\
85-86	N.C.	O	No connection
87	FLD_RST	O	Reset Signal for the FL Driver
88	FLD_CS	O	Latch Signal for the FL Driver
89	FLD_CK	O	Clock Signal for the FL Driver
90	FLD_DA	O	Data input for the FL Driver
91	KEY2	I	Key 2 line input
92	N.C.	-	No connection
93	DES3	I	REGION Setting for DVD
94	DES2	I	REGION Setting for DVD (Speaker Region)
95	DES1	I	REGION Setting for DVD (Tuner, RDS, SCART Region)
96	AVss	-	Analog Power Supply Input
97	KEY 1	I	KEY 1 line input
98	VREF	-	Reference voltage input
99	AVcc	-	Analog power supply input
100	N.C.	-	No connection

26 Parts Location and Replacement Parts List

Notes:

- Important safety notice:

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

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

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

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

Parts without these indications can be used for all areas.

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

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

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

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

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

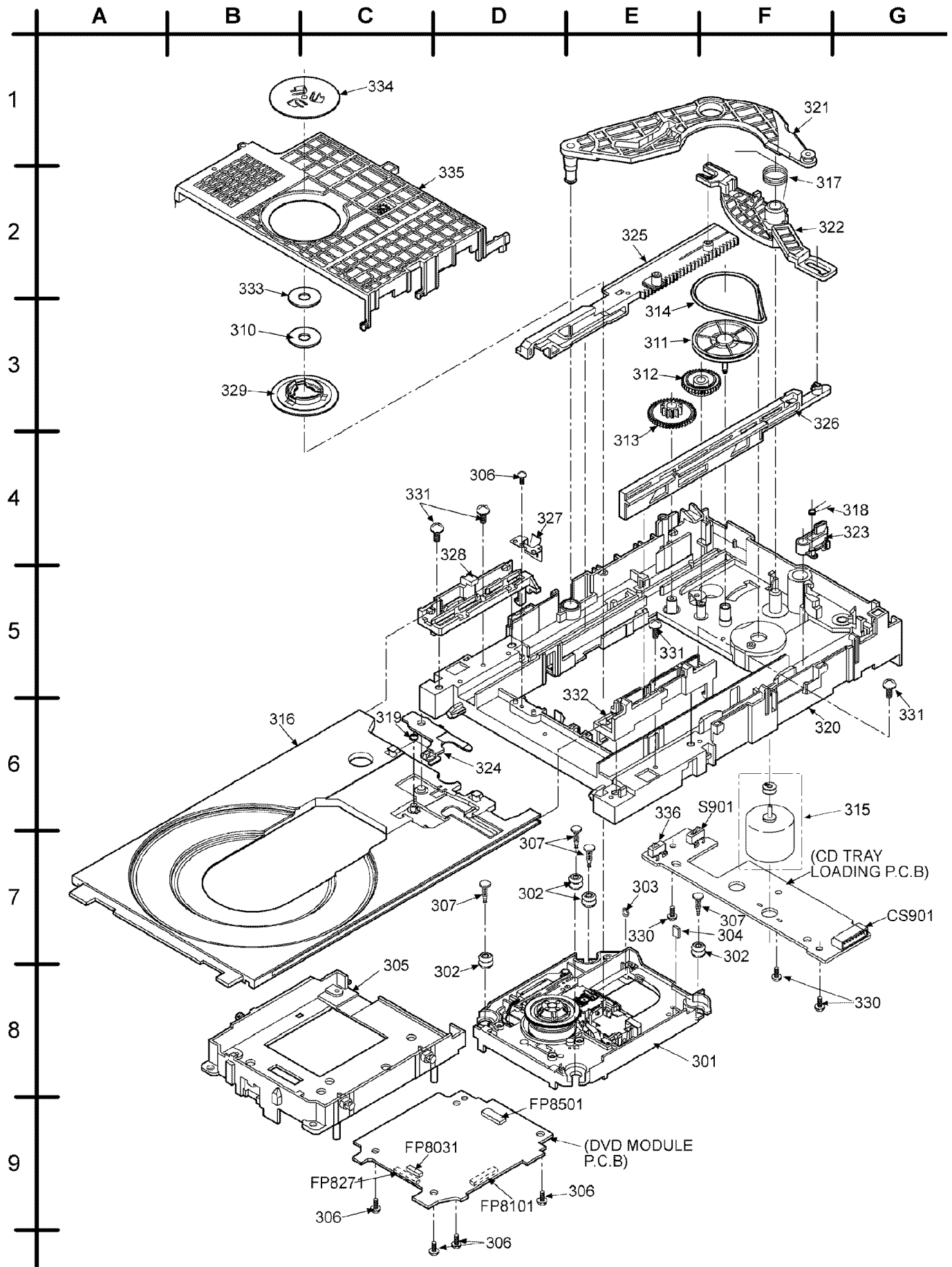
- The "(SF)" mark denotes the standard part.

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

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

26.1. DVD Loading Mechanism

26.1.1. DVD Loading Mechanism Parts Location

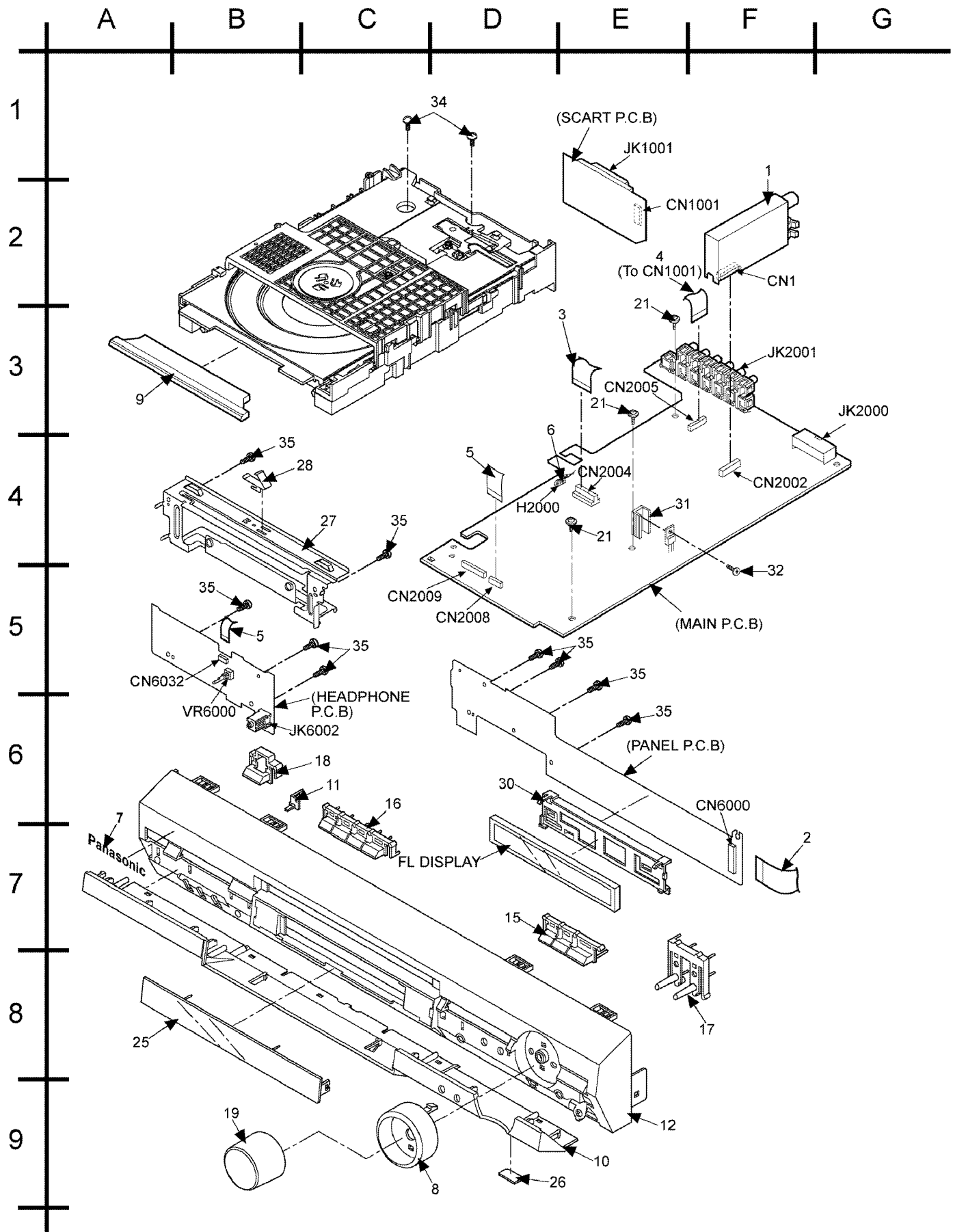


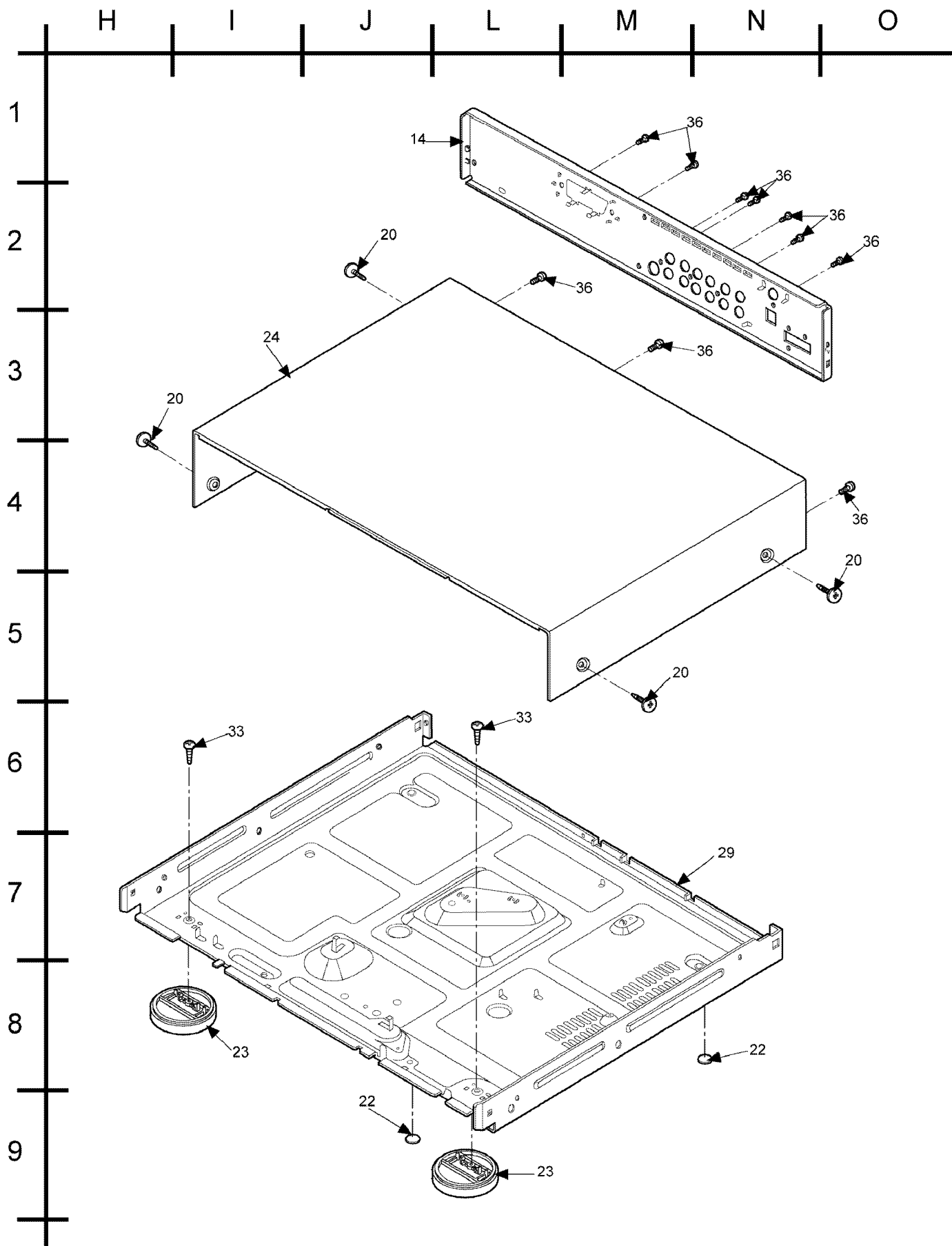
26.1.2. DVD Loading Mechanism Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		TRAVERSE DECK	
301	RAE2008W-S	DT68 TRV SUB UNIT	[M]
302	RMG0598A-K	FLOATING RUBBER	[M]
303	RMG0617-H	CUSHION RUBBER A	[M]
304	RMG0618-H	CUSHION RUBBER B	[M]
305	RMR1596-K	MIDDLE CHASSIS	[M]
306	XTV2+6G	PCB SCREW	[M]
307	RMS0789	FIXED PIN	[M]
310	JSM0048	MAGNET	[M]
311	RDG0547	PULLEY GEAR	[M]
312	RDG0548	RELAY GEAR	[M]
313	RDG0549	DRIVE GEAR	[M]
314	RDV0070	BELT	[M]
315	REM0102	MOTOR UNIT	[M]
316	RGQ0395-K	TRAY	[M]
317	RME0350	CHANGE LEVER SPRING	[M]
318	RME0351	LOCK LEVER SPRING	[M]
319	RME0353	TRAY SLIDER SPRING	[M]
320	RMK0591	MECHA CHASSIS	[M]
321	RML0627-2	DRIVE ARM	[M]
322	RML0628	CHANGE LEVER	[M]
323	RML0629	LOCK LEVER	[M]
324	RML0631	TRAY SLIDER	[M]
325	RMM0247	DRIVE RACK	[M]
326	RMM0248	SUB RACK	[M]
327	RMC0387	SUPPORT SPRING	[M]
328	RMM0250	GUIDE PIECE (L)	[M]
329	RMR1446-X	CLAMPER	[M]
330	XTN26+6G	SCREW	[M]
331	XTN26+8G	ADDITIONAL SCREWS	[M]
332	RMM0253	GUIDE PIECE (R)	[M]
333	XWG6FFY	WASHER	[M]
334	RMR1447-X	MAGNET HOLDER	[M]
335	RMR1468-K	CLAMP PLATE	[M]
336	RSH1A044-1A	SW OPEN	[M]

26.2. Cabinet

26.2.1. Cabinet Parts Location





26.2.2. Cabinet Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	ENG07802QF	TUNER PACK	[M]
2	REEX0306	22P FFC WIRE	[M]
3	REEX0308	50P FFC	[M]
4	REEX0321	19P FFC WIRE	[M]
5	REEX0349	10P FFC WIRE	[M]
6	REXX0384	7P FLAT WIRE	[M]
7	RGBX0011-S	PANASONIC BADGE	[M]
8	RGKX0246-S	VOLUME RING	[M]
9	RGKX0247-S	DVD LID	[M]
10	RGKX0248-H1	BOTTOM ORNAMENT	[M]
11	RGLX0084-Q	LIGHTING PIECE	[M]
12	RGPX0142-S1	FRONT PANEL	[M]
14	RGRX0030A-A	REAR PANEL	[M]
15	RGUX0553-S	FUNCTION BUTTON	[M]
16	RGUX0554-S	OPERATION BUTTON	[M]
17	RGUX0561-H	FF/REV BUTTON	[M]
18	RGUX0562-S	POWER BUTTON	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
19	RGWX0076-S	VOLUME KNOB	[M]
20	RHD30007-1SJ	SCREW	[M]
21	RHD30090	SCREW	[M]
22	RKA0145-K	CUSHION	[M]
23	RKA0157-S	FOOT ASS'Y	[M]
24	RKMX0094-S	TOP CABINET	[M]
25	RKWX0226-Q	FL WINDOW	[M]
26	RKWX0232-S	SENSOR WINDOW	[M]
27	RMAX0064	DVD SUPPORT BRACKET	[M]
28	RMCX0023	TOP SPRING	[M]
29	RMKX0089	BOTTOM CHASSIS	[M]
30	RMNX0120	FL HOLDER	[M]
31	TUC25628	TRANSISTOR HEAT SINK	[M]
32	XTB3+10JFZ	SCREW	[M]
33	XTB3+6J	SCREW	[M]
34	XTB3+8JFZ	SCREW	[M]
35	XTBS26+10J	SCREW	[M]
36	XTBS3+8JFZ1	SCREW	[M]

26.3. Component Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PRINTED CIRCUIT BOARD	
	REP3654H	DVD MODULE P.C.B. (SIDE: A)	[M] (RTL)
	REP3654H	DVD MODULE P.C.B. (SIDE: B)	[M] (RTL)
	REPX0417A	MAIN P.C.B.	[M] (RTL)
	REPX0416A	PANEL P.C.B.	[M] (RTL)
	REPX0417A	SCART P.C.B.	[M] (RTL)
	REPX0416A	HEADPHONE P.C.B.	[M] (RTL)
	REP3288A	CD TRAY LOADING P.C.B.	[M] (RTL)
		INTEGRATED CIRCUITS	
IC904	TA7291S	IC REFLECTIVE PHOTO SENSOR	[M]
IC1001	C9ZB00000432	IC VIDEO SELECTOR	[M]
IC1002	XN0460100L	IC CHIP DUAL TRANSISTOR	[M]
IC1003	C1AB00001731	IC V.BUFFER	[M]
IC2000	C0CBADG00023	IC 5V REGULATOR	[M]
IC2001	C0DBAZG00033	IC DC-TO-DC CONVERTER	[M]
IC2002	C0DBAZG00033	IC DC-TO-DC CONVERTER	[M]
IC2004	C0CBADG00023	IC 5V REGULATOR	[M]
IC2005	C0DBEFG00003	IC REGULATOR	[M]
IC2006	C9ZB00000431	IC VIDEO SELECTOR	[M]
IC2009	C1AB00001466	IC V. BUFFER	[M]
IC2010	C0ABBB000118	IC DUAL OP AMP	[M]
IC2011	C1BB00000845	IC ASP	[M]
IC2012	C0ABCB000052	IC QUAD OP-AMP	[M]
IC2013	C0AABB000125	IC HP AMP	[M]
IC2015	C0ABBB000118	IC DUAL OP AMP	[M]
IC2018	C2CBHG000138	IC MICRO-PROCESSOR	[M]
IC2020	C1BB00000715	IC RDS	[M]
IC2021	C0ABCB000052	IC QUAD OP AMP	[M]
IC2022	C0JBAR000292	IC ANALOG SWITCH	[M]
IC6000	C0HBB0000040	IC FL DRIVER	[M]
IC6002	C0JBAE000192	IC XOR GATE	[M]
IC8001	MN2DS0003APH	IC LSI	[M]
IC8051	C3ABPG000063	IC 64MB SDRAM	[M]
IC8111	C0CBCBD00018	IC POWER SUPPLY	[M]
IC8251	C0GBG0000044	IC MOTOR DRIVE	[M]
IC8271	C0GBF0000004	IC MOTOR DRIVE	[M]
IC8451	C0FBBK000036	IC AUDIO DAC	[M]
IC8601	C0EBE0000384	IC VOLTAGE DETECTOR	[M]
IC8605	C0EBA0000031	IC RESET	[M]
IC8651	C3FBMD000134	IC SDRAM	[M]
IC8691	C0JBCA000066	IC AND GATE LOGIC	[M]
IC8695	C0JBCA000066	IC AND GATE LOGIC	[M]
		TRANSISTORS	
Q1001	2SB0709AHL	TRANSISTOR	[M]
Q1004	UNR221200L	TRANSISTOR	[M]
Q1005	2SD0601AHL	TRANSISTOR	[M]
Q1006	UNR221200L	TRANSISTOR	[M]
Q1007	UNR211H00L	TRANSISTOR	[M]
Q1010	B1AAKD000009	TRANSISTOR	[M]
Q2000	B1GBCFLL0028	TRANSISTOR	[M]
Q2003	B1GBCFJN0021	TRANSISTOR	[M]
Q2004	B1GBCFJN0021	TRANSISTOR	[M]
Q2005	B1GBCFJN0021	TRANSISTOR	[M]
Q2006	2SB0709AHL	TRANSISTOR	[M]
Q2007	2SB0709AHL	TRANSISTOR	[M]
Q2011	B1ADCF000001	TRANSISTOR	[M]
Q2012	B1BCCG000021	TRANSISTOR	[M]
Q2013	B1ABCF000131	TRANSISTOR	[M]
Q2014	B1GDCFGA0014	TRANSISTOR	[M]
Q2015	KTA12710YTA	TRANSISTOR	[M]
Q2016	B1ADCF000001	TRANSISTOR	[M]
Q2017	B1BCCD000016	TRANSISTOR	[M]
Q2021	B1AAKD000009	TRANSISTOR	[M]
Q2022	2SD21370PA	TRANSISTOR	[M]
Q2023	2SD21370PA	TRANSISTOR	[M]
Q2025	B1GBCFJA0015	TRANSISTOR	[M]
Q2026	B1GDCFGA0014	TRANSISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
Q2027	B1GDCFGA0014	TRANSISTOR	[M]
Q2028	B1GBCFJN0021	TRANSISTOR	[M]
Q2029	B1GBCFJN0021	TRANSISTOR	[M]
Q2030	B1GBCFJN0021	TRANSISTOR	[M]
Q2100	B1GFGCAA0001	TRANSISTOR	[M]
Q2101	B1GFGCAA0001	TRANSISTOR	[M]
Q2102	B1GFGCAA0001	TRANSISTOR	[M]
Q2103	B1GDCFGA0014	TRANSISTOR	[M]
Q2104	B1GFGCAA0001	TRANSISTOR	[M]
Q2105	B1GDCFGA0014	TRANSISTOR	[M]
Q2200	B1GFGCAA0001	TRANSISTOR	[M]
Q2201	B1GDCFGA0014	TRANSISTOR	[M]
Q2300	B1ABEB000001	TRANSISTOR	[M]
Q2301	B1GDCFGA0014	TRANSISTOR	[M]
Q2500	B1GDCFGA0014	TRANSISTOR	[M]
Q2600	B1GDCFGA0014	TRANSISTOR	[M]
Q2601	B1GFGCAA0001	TRANSISTOR	[M]
Q8550	2SB1219AHL	TRANSISTOR	[M]
Q8551	2SD1819A0L	TRANSISTOR	[M]
Q8552	2SB09700RL	TRANSISTOR	[M]
Q8560	2SD1819A0L	TRANSISTOR	[M]
Q8561	2SD1819A0L	TRANSISTOR	[M]
Q8562	2SB09700RL	TRANSISTOR	[M]
Q8605	2SD1819A0L	TRANSISTOR	[M]
Q8606	2SD1819A0L	TRANSISTOR	[M]
QR8420	UNR521100L	CHIP TRANSISTOR	[M]
QR8571	UNR511V00L	CHIP TRANSISTOR	[M]
		DIODES	
D1001	B0ACCK000005	DIODE	[M]
D1002	B0BC01200019	DIODE	[M]
D2000	B0ACCE000003	DIODE	[M]
D2001	B0ACCE000003	DIODE	[M]
D2002	B0ACCE000003	DIODE	[M]
D2003	B0ACCK000005	DIODE	[M]
D2008	B0BC7R500001	DIODE	[M]
D2009	SM330A	DIODE	[M]
D2010	B0BC7R500001	DIODE	[M]
D2011	SM330A	DIODE	[M]
D2012	B0ACCK000005	DIODE	[M]
D2013	B0BC9R000008	DIODE	[M]
D2014	B0BC02900004	DIODE	[M]
D2015	B0EAKM000117	DIODE	[M]
D2016	B0EAKM000117	DIODE	[M]
D2017	B0EAKM000117	DIODE	[M]
D2018	B0EAKM000117	DIODE	[M]
D2019	B0EAKM000117	DIODE	[M]
D2020	B0EAKM000117	DIODE	[M]
D2023	B0FBAM000010	DIODE	[M]
D2024	B0ECKM000016	DIODE	[M]
D2025	B0BC5R600003	DIODE	[M]
D2026	B0BC7R500001	DIODE	[M]
D2027	B0ECKM000016	DIODE	[M]
D2029	B0BC01000014	DIODE	[M]
D2032	B0ADCJ000020	DIODE	[M]
D2033	B0ACCK000005	DIODE	[M]
D2034	B0ECKM000016	DIODE	[M]
D2035	B0ACCK000005	DIODE	[M]
D2036	B0ACCK000005	DIODE	[M]
D2039	B0ADCJ000020	DIODE	[M]
D2040	B0ACCK000005	DIODE	[M]
D2041	B0EAKM000117	DIODE	[M]
D2042	B0EAKM000117	DIODE	[M]
D2101	B0BC5R000009	DIODE	[M]
D6000	B3AAA0000583	DIODE	[M]
D6006	B0BC5R000009	DIODE	[M]
D6008	B0BC5R000009	DIODE	[M]
D8550	MA2811100L	DIODE	[M]
D8571	MA2J72800L	DIODE	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
		CHIP INDUCTOR	
LB8001	J0JHC0000045	CHIP INDUCTOR	[M]
LB8002	J0JHC0000045	CHIP INDUCTOR	[M]
LB8011	ERJ3GEYJ220V	CHIP RESISTOR	[M]
LB8271	ERJ3GEYOR00V	0 1/16W	[M]
LB8272	ERJ3GEYOR00V	0 1/16W	[M]
LB8273	ERJ3GEYOR00V	0 1/16W	[M]
LB8301	J0JCC0000119	CHIP INDUCTOR	[M]
LB8302	J0JCC0000119	CHIP INDUCTOR	[M]
LB8303	J0JCC0000119	CHIP INDUCTOR	[M]
LB8304	J0JCC0000119	CHIP INDUCTOR	[M]
LB8305	J0JCC0000119	CHIP INDUCTOR	[M]
LB8401	D0GB151JA008	150 1/16W	[M]
LB8420	J0JCC0000091	FILTER	[M]
LB8421	J0JCC0000119	CHIP INDUCTOR	[M]
LB8422	J0JCC0000119	CHIP INDUCTOR	[M]
LB8423	ERJ3GEYOR00V	0 1/16W	[M]
LB8424	J0JCC0000091	FILTER	[M]
LB8451	J0JCC0000119	CHIP INDUCTOR	[M]
LB8452	J0JCC0000119	CHIP INDUCTOR	[M]
LB8453	J0JCC0000119	CHIP INDUCTOR	[M]
LB8454	J0JCC0000119	CHIP INDUCTOR	[M]
LB8455	J0JCC0000119	CHIP INDUCTOR	[M]
LB8456	J0JCC0000119	CHIP INDUCTOR	[M]
LB8491	J0JCC0000119	CHIP INDUCTOR	[M]
LB8501	ERJ3GEYJ222V	2.2K 1/16W	[M]
LB8502	J0JHC0000045	CHIP INDUCTOR	[M]
LB8503	ERJ3GEYOR00V	0 1/16W	[M]
LB8504	J0JCC0000091	FILTER	[M]
LB8505	J0JCC0000091	FILTER	[M]
LB8506	D0GB152JA002	1.5K 1/16W	[M]
LB8507	J0JCC0000091	FILTER	[M]
LB8511	ERJ3GEYOR00V	0 1/16W	[M]
LB8512	ERJ3GEYOR00V	0 1/16W	[M]
LB8513	ERJ3GEYOR00V	0 1/16W	[M]
LB8514	ERJ3GEYOR00V	0 1/16W	[M]
LB8690	J0JCC0000091	FILTER	[M]
LB8691	D0GB101JA002	100 1/16W	[M]
LB8692	D0GB101JA002	100 1/16W	[M]
LB8693	D0GB101JA002	100 1/16W	[M]
		VARIABLE RESISTORS	
VR6000	EVEKE2F3024M	VOLUME JOG	[M]
		SWITCHES	
S901	RSH1A044-1A	SW PLAY	[M]
S902	RSH1A044-1A	SW OPEN	[M]
S6000	EVQ21405R	SW OPEN/CLOSE	[M]
S6002	EVQ21405R	SW PLAY	[M]
S6003	EVQ21405R	SW BACK SKIP	[M]
S6004	EVQ21405R	SW STOP	[M]
S6005	EVQ21405R	SW FORWARD SKIP	[M]
S6011	EVQ21405R	SW SELECTOR	[M]
S6012	EVQ21405R	SW POWER	[M]
S6013	EVQ21405R	SW RDS	[M]
S6014	EVQ21405R	SW SFC	[M]
S6015	EVQ21405R	SW SUB WOOFER	[M]
		CONNECTORS	
CN901	K1KA07B00027	7P CONNECTOR	[M]
CN1001	K1MN19B00026	19P CONNECTOR	[M]
CN2002	K1KA10A00263	10P CONNECTOR	[M]
CN2004	K1MN50A00008	50P CONNECTORS	[M]
CN2005	K1MN19A00021	19P FFC CONNECTOR	[M]
CN2008	K1MN10A00052	10P CONNECTOR	[M]
CN2009	K1MN22A00027	22P FFC CONNECTOR	[M]
CN6008	K1MN22B00043	22P CONNECTOR	[M]
CN6032	K1MN10B00088	10P CONNECTOR	[M]
FP8031	K1MN10B00098	10P CONNECTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
FP8101	K1MN50B00031	50P CONNECTOR	[M]
FP8271	K1MN15B00041	15P CONNECTOR	[M]
FP8501	K1MN26B00094	26P CONNECTOR	[M]
		COILS & TRANSFORMERS	
L1002	J0JBC0000015	CHIP INDUCTOR	[M]
L1020	J0JBC0000015	CHIP INDUCTOR	[M]
L1021	J0JBC0000015	CHIP INDUCTOR	[M]
L1022	J0JBC0000015	CHIP INDUCTOR	[M]
L1023	J0JBC0000015	CHIP INDUCTOR	[M]
L2000	G0C3R3JA0027	COIL	[M]
L2001	G0C101JA0030	INDUCTOR	[M]
L2002	G0C101JA0030	INDUCTOR	[M]
L2010	ELESN220JA	COIL	[M]
L2011	G0A100G00005	INDUCTOR	[M]
L2012	G0A101G00022	COIL	[M]
L2013	G0A100G00005	INDUCTOR	[M]
L2014	G0A100G00005	INDUCTOR	[M]
L2017	G0A100G00005	INDUCTOR	[M]
L2018	G0A100G00005	INDUCTOR	[M]
L2019	G0A101G00022	COIL	[M]
L2022	J0JBC0000015	CHIP INDUCTOR	[M]
L2023	J0JBC0000015	CHIP INDUCTOR	[M]
L2024	J0JBC0000015	CHIP INDUCTOR	[M]
L2025	J0JBC0000015	CHIP INDUCTOR	[M]
L2026	J0JBC0000015	CHIP INDUCTOR	[M]
L2027	J0JBC0000015	CHIP INDUCTOR	[M]
L6000	J0JBC0000019	CHIP INDUCTOR	[M]
L6001	J0JBC0000019	CHIP INDUCTOR	[M]
L6002	J0JBC0000019	CHIP INDUCTOR	[M]
L6003	J0JBC0000041	CHIP INDUCTOR	[M]
L8201	G1C100K00020	CHIP INDUCTOR	[M]
L8202	J0JCC0000079	FILTER	[M]
L8301	G1C100KA0055	CHIP INDUCTOR	[M]
L8302	J0JCC0000079	FILTER	[M]
L8420	G1C220KA0055	CHIP INDUCTOR	[M]
L8550	G1C100KA0055	CHIP INDUCTOR	[M]
		COMPONENT COMBINATION	
Z6000	B3MAZ0000023	R/CONTROL SENSOR	[M]
		OSCILLATORS	
X2000	H2B100500004	CERAMIC RESONATORS	[M]
X2001	H0H433400001	CRYSTAL	[M]
X8621	H0J270500064	S/MOUNTING CRYSTAL	[M]
		DISPLAY TUBE	
FL6000	A2BD00000082	FL DISPLAY	[M]
FL8101	F1H0J1050022	1 6.3V	[M]
FL8102	F1H0J1050022	1 6.3V	[M]
FL8103	F1H0J1050022	1 6.3V	[M]
FL8104	F1J1E1040022	0.1 25V	[M]
		FUSE PROTECTOR	
FP2000	K5G202AA0002	FUSE PROTECTOR	[M] △
		HOLDERS	
H2000	RMR0316	7P WIRE HOLDER	[M]
		JACKS	
JK1001	K1FB121A0007	JK SCART TERMINAL	[M]
JK2000	K1FB125B0097	JK SYSTEM CONNECTOR	[M]
JK2001	K2YZ12000010	JK COMBINED RCA	[M]
JK6002	K2HC103A0023	JK SMALL SIGN	[M]
		EARTH TERMINAL	

Ref. No.	Part No.	Part Name & Description	Remarks
E2000	K4CZ01000027	TERMINALS	[M]
		WIRES	
W1208	ERJ3GEY0R00V	0 1/16W	[M]
W2000	ERJ3GEY0R00V	0 1/16W	[M]
W2001	ERJ3GEY0R00V	0 1/16W	[M]
W2002	ERJ3GEY0R00V	0 1/16W	[M]
W2003	ERJ3GEY0R00V	0 1/16W	[M]
W2004	ERJ3GEY0R00V	0 1/16W	[M]
W2005	ERJ3GEY0R00V	0 1/16W	[M]
W2006	ERJ3GEY0R00V	0 1/16W	[M]
W2007	ERJ3GEY0R00V	0 1/16W	[M]
W2008	ERJ3GEY0R00V	0 1/16W	[M]
W2009	ERJ3GEY0R00V	0 1/16W	[M]
W2010	ERJ6GEY0R00V	0 1/10W	[M]
W2011	ERJ3GEY0R00V	0 1/16W	[M]
W2012	ERJ3GEY0R00V	0 1/16W	[M]
W2013	ERJ3GEY0R00V	0 1/16W	[M]
W2014	ERJ3GEY0R00V	0 1/16W	[M]
W2015	ERJ3GEY0R00V	0 1/16W	[M]
W2016	ERJ3GEY0R00V	0 1/16W	[M]
W2017	ERJ3GEY0R00V	0 1/16W	[M]
W2018	ERJ3GEY0R00V	0 1/16W	[M]
W2019	ERJ3GEY0R00V	0 1/16W	[M]
W2020	ERJ3GEY0R00V	0 1/16W	[M]
W2021	ERJ3GEY0R00V	0 1/16W	[M]
W2031	ERJ3GEY0R00V	0 1/16W	[M]
W2032	ERJ3GEY0R00V	0 1/16W	[M]
W2035	ERJ3GEY0R00V	0 1/16W	[M]
W2036	ERJ3GEY0R00V	0 1/16W	[M]
W2037	ERJ3GEY0R00V	0 1/16W	[M]
W2038	ERJ3GEY0R00V	0 1/16W	[M]
W2039	ERJ3GEY0R00V	0 1/16W	[M]
W2040	ERJ3GEY0R00V	0 1/16W	[M]
W2041	ERJ3GEY0R00V	0 1/16W	[M]
W2042	ERJ3GEY0R00V	0 1/16W	[M]
W2043	ERJ3GEY0R00V	0 1/16W	[M]
W2044	ERJ3GEY0R00V	0 1/16W	[M]
W2046	ERJ3GEY0R00V	0 1/16W	[M]
W2047	ERJ3GEY0R00V	0 1/16W	[M]
W2048	ERJ6GEY0R00V	0 1/10W	[M]
W2050	ERJ6GEY0R00V	0 1/10W	[M]
W2051	ERJ6GEY0R00V	0 1/10W	[M]
W2052	ERJ6GEY0R00V	0 1/10W	[M]
W2053	ERJ6GEY0R00V	0 1/10W	[M]
W2054	ERJ6GEY0R00V	0 1/10W	[M]
W2055	ERJ6GEY0R00V	0 1/10W	[M]
W2056	ERJ6GEY0R00V	0 1/10W	[M]
W2057	ERJ6GEY0R00V	0 1/10W	[M]
W2058	ERJ6GEY0R00V	0 1/10W	[M]
W2059	ERJ6GEY0R00V	0 1/10W	[M]
W2060	ERJ6GEY0R00V	0 1/10W	[M]
W2061	ERJ6GEY0R00V	0 1/10W	[M]
W2062	ERJ6GEY0R00V	0 1/10W	[M]
W2063	ERJ6GEY0R00V	0 1/10W	[M]
W2064	ERJ6GEY0R00V	0 1/10W	[M]
W2065	ERJ6GEY0R00V	0 1/10W	[M]
W2066	ERJ6GEY0R00V	0 1/10W	[M]
W2067	ERJ6GEY0R00V	0 1/10W	[M]
W2068	ERJ6GEY0R00V	0 1/10W	[M]
W2069	ERJ6GEY0R00V	0 1/10W	[M]
W2070	ERJ6GEY0R00V	0 1/10W	[M]
W2072	ERJ6GEY0R00V	0 1/10W	[M]
W2073	ERJ6GEY0R00V	0 1/10W	[M]
W2074	ERJ6GEY0R00V	0 1/10W	[M]
W2075	ERJ6GEY0R00V	0 1/10W	[M]
W2076	ERJ6GEY0R00V	0 1/10W	[M]
W2077	ERJ6GEY0R00V	0 1/10W	[M]
W2078	ERJ6GEY0R00V	0 1/10W	[M]
W2079	ERJ6GEY0R00V	0 1/10W	[M]
W2080	ERJ6GEY0R00V	0 1/10W	[M]
W2082	ERJ3GEY0R00V	0 1/16W	[M]
W2119	ERJ3GEY0R00V	0 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
W2128	ERJ3GEY0R00V	0 1/16W	[M]
W3000	ERJ3GEY0R00V	0 1/16W	[M]
W4000	ERJ3GEY0R00V	0 1/16W	[M]
W6002	ERJ3GEY0R00V	0 1/16W	[M]
W6003	ERJ3GEY0R00V	0 1/16W	[M]
W6004	ERJ3GEY0R00V	0 1/16W	[M]
W6011	ERJ3GEY0R00V	0 1/16W	[M]
W6012	ERJ3GEY0R00V	0 1/16W	[M]
W6013	ERJ3GEY0R00V	0 1/16W	[M]
W6031	ERJ3GEY0R00V	0 1/16W	[M]
W6032	ERJ3GEY0R00V	0 1/16W	[M]
		RESISTORS	
R1003	ERJ3RBD102V	1K 3W	[M]
R1004	ERJ3RBD102V	1K 3W	[M]
R1009	ERJ3GEYJ223V	22K 1/16W	[M]
R1015	D0GB183JA002	18K 1/16W	[M]
R1016	ERJ3GEYJ223V	22K 1/16W	[M]
R1017	ERJ3GEYJ223V	22K 1/16W	[M]
R1018	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1019	ERJ3GEYJ223V	22K 1/16W	[M]
R1020	D1BB75R0A012	75 1/16W	[M]
R1021	D1BB75R0A012	75 1/16W	[M]
R1022	D1BB75R0A012	75 1/16W	[M]
R1023	D1BB75R0A012	75 1/16W	[M]
R1024	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1025	ERJ3GEYJ103V	10K 1/16W	[M]
R1026	ERJ3GEYJ103V	10K 1/16W	[M]
R1027	ERJ3GEYJ471V	470 1/16W	[M]
R1028	ERJ3GEYJ102V	1K 1/16W	[M]
R1029	ERJ3GEYJ102V	1K 1/16W	[M]
R1030	D0GB750JA019	75 1/16W	[M]
R1031	D1BB75R0A012	75 1/16W	[M]
R1040	ERJ3GEYJ103V	10K 1/16W	[M]
R1041	D0GB101JA002	100 1/16W	[M]
R1042	ERJ3GEYJ103V	10K 1/16W	[M]
R2000	ERJ3GEYJ221V	220 1/16W	[M]
R2001	ERJ3GEYJ221V	220 1/16W	[M]
R2002	ERJ3GEYJ221V	220 1/16W	[M]
R2003	ERJ3GEYJ221V	220 1/16W	[M]
R2004	ERJ3GEYJ221V	220 1/16W	[M]
R2005	ERJ3GEYJ221V	220 1/16W	[M]
R2006	ERJ3GEYJ221V	220 1/16W	[M]
R2007	ERJ3GEYJ102V	1K 1/16W	[M]
R2008	ERJ3GEYJ103V	10K 1/16W	[M]
R2009	ERJ3GEYJ221V	220 1/16W	[M]
R2010	ERJ3GEYJ221V	220 1/16W	[M]
R2012	ERJ3GEYJ221V	220 1/16W	[M]
R2013	ERJ3GEYJ221V	220 1/16W	[M]
R2014	ERJ3GEYJ221V	220 1/16W	[M]
R2015	ERJ3GEYJ221V	220 1/16W	[M]
R2016	ERJ3GEYJ221V	220 1/16W	[M]
R2017	ERJ3GEYJ103V	10K 1/16W	[M]
R2018	ERJ3GEYJ221V	220 1/16W	[M]
R2019	ERJ3GEYJ221V	220 1/16W	[M]
R2020	ERJ3GEYJ223V	22K 1/16W	[M]
R2021	ERJ3GEYJ473V	47K 1/16W	[M]
R2022	ERJ3GEYJ473V	47K 1/16W	[M]
R2023	ERJ3GEYJ103V	10K 1/16W	[M]
R2024	ERJ3GEYJ473V	47K 1/16W	[M]
R2025	ERJ3GEYJ221V	220 1/16W	[M]
R2026	ERJ3GEYJ221V	220 1/16W	[M]
R2027	ERJ3GEYJ221V	220 1/16W	[M]
R2028	ERJ3GEYJ221V	220 1/16W	[M]
R2029	ERJ3GEYJ221V	220 1/16W	[M]
R2030	ERJ3GEYJ221V	220 1/16W	[M]
R2031	ERJ3GEYJ221V	220 1/16W	[M]
R2032	ERJ3GEYJ221V	220 1/16W	[M]
R2033	ERJ3GEYJ221V	220 1/16W	[M]
R2034	ERJ3GEYJ221V	220 1/16W	[M]
R2035	ERJ3GEYJ221V	220 1/16W	[M]
R2036	ERJ3GEYJ102V	1K 1/16W	[M]
R2037	ERJ3GEYJ102V	1K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R2038	ERJ3GEYJ221V	220 1/16W	[M]
R2039	ERJ3GEYJ221V	220 1/16W	[M]
R2040	ERJ3GEYJ221V	220 1/16W	[M]
R2041	ERJ3GEYJ221V	220 1/16W	[M]
R2042	ERJ3GEYJ221V	220 1/16W	[M]
R2043	ERJ3GEYJ221V	220 1/16W	[M]
R2044	ERJ3GEYJ221V	220 1/16W	[M]
R2045	ERJ3GEYJ221V	220 1/16W	[M]
R2046	ERJ3GEYJ221V	220 1/16W	[M]
R2047	ERJ3GEYJ221V	220 1/16W	[M]
R2048	ERJ3GEYJ221V	220 1/16W	[M]
R2049	ERJ3GEYJ221V	220 1/16W	[M]
R2050	ERJ3GEYJ221V	220 1/16W	[M]
R2051	ERJ3GEYJ221V	220 1/16W	[M]
R2052	ERJ3GEYJ221V	220 1/16W	[M]
R2053	ERJ3GEYJ221V	220 1/16W	[M]
R2054	ERJ3GEYJ221V	220 1/16W	[M]
R2056	ERJ3GEYJ473V	47K 1/16W	[M]
R2057	ERJ3GEYJ473V	47K 1/16W	[M]
R2058	D0GB563JA002	56K 1/16W	[M]
R2059	ERJ3GEYJ221V	220 1/16W	[M]
R2060	D0GB101JA002	100 1/16W	[M]
R2061	ERJ3GEYJ221V	220 1/16W	[M]
R2062	ERJ3GEYJ221V	220 1/16W	[M]
R2063	ERJ3GEYJ221V	220 1/16W	[M]
R2064	D0GB101JA002	100 1/16W	[M]
R2065	ERJ3GEYJ103V	10K 1/16W	[M]
R2066	ERJ3GEYJ103V	10K 1/16W	[M]
R2067	ERJ3GEYJ103V	10K 1/16W	[M]
R2068	ERJ3GEYJ103V	10K 1/16W	[M]
R2069	ERJ3GEYJ182V	1.8K 1/16W	[M]
R2070	ERJ3GEY0R00V	0 1/16W	[M]
R2071	D0GB821JA002	820 1/16W	[M]
R2072	D0GB101JA002	100 1/16W	[M]
R2073	ERJ3GEYJ221V	220 1/16W	[M]
R2074	D0GB393JA002	39K 1/16W	[M]
R2075	D0GB272JA002	2.7K 1/16W	[M]
R2076	ERJ3GEYJ104V	100K 1/16W	[M]
R2077	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2078	ERJ3GEYJ471V	470 1/16W	[M]
R2079	ERJ3GEYJ223V	22K 1/16W	[M]
R2080	ERJ3GEYJ103V	10K 1/16W	[M]
R2082	ERJ3GEYJ473V	47K 1/16W	[M]
R2083	ERJ3GEYJ681V	680 1/16W	[M]
R2084	ERJ3GEYJ223V	22K 1/16W	[M]
R2086	ERJ3GEYJ102V	1K 1/16W	[M]
R2087	ERJ3GEYJ104V	100K 1/16W	[M]
R2088	ERJ3GEYJ102V	1K 1/16W	[M]
R2089	ERJ3GEYJ102V	1K 1/16W	[M]
R2090	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2091	ERJ3GEYJ223V	22K 1/16W	[M]
R2092	ERJ3GEYJ223V	22K 1/16W	[M]
R2100	ERJ3GEYJ102V	1K 1/16W	[M]
R2101	ERJ3GEYJ473V	47K 1/16W	[M]
R2106	ERJ3GEYJ102V	1K 1/16W	[M]
R2107	ERJ3GEYJ104V	100K 1/16W	[M]
R2108	D0GB272JA002	2.7K 1/16W	[M]
R2111	ERJ3GEYJ104V	100K 1/16W	[M]
R2112	ERJ3GEYJ103V	10K 1/16W	[M]
R2113	ERJ3GEYJ103V	10K 1/16W	[M]
R2114	ERJ3GEYJ103V	10K 1/16W	[M]
R2115	D0GB273JA002	27K 1/16W	[M]
R2116	ERJ3GEYJ104V	100K 1/16W	[M]
R2117	ERJ3GEYJ104V	100K 1/16W	[M]
R2118	ERJ3GEYJ223V	22K 1/16W	[M]
R2119	ERJ3GEYJ123V	12K 1/16W	[M]
R2120	ERJ3GEYJ123V	12K 1/16W	[M]
R2121	D0GB122JA019	1.2K 1/16W	[M]
R2122	ERJ3GEYJ223V	22K 1/16W	[M]
R2123	ERJ3GEYJ103V	10K 1/16W	[M]
R2124	ERJ3GEYJ103V	10K 1/16W	[M]
R2125	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2126	ERJ3GEYJ104V	100K 1/16W	[M]
R2127	ERJ3GEYJ104V	100K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R2128	ERJ3GEYJ102V	1K 1/16W	[M]
R2129	ERJ3GEYJ103V	10K 1/16W	[M]
R2130	ERJ3GEYJ103V	10K 1/16W	[M]
R2131	ERJ3GEYJ103V	10K 1/16W	[M]
R2132	ERJ3GEYJ103V	10K 1/16W	[M]
R2133	ERJ3GEYJ103V	10K 1/16W	[M]
R2134	ERJ3GEYJ103V	10K 1/16W	[M]
R2144	D0GB392JA002	3.9K 1/16W	[M]
R2145	ERJ3GEYJ682V	6.8K 1/16W	[M]
R2146	D0GB333JA002	33K 1/16W	[M]
R2147	ERJ3GEYJ220V	22 1/16W	[M]
R2148	ERJ3GEYJ220V	22 1/16W	[M]
R2149	ERJ3GEYJ220V	22 1/16W	[M]
R2150	ERJ3GEYJ220V	22 1/16W	[M]
R2151	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2152	D0GB272JA002	2.7K 1/16W	[M]
R2153	D0GB100JA002	10 1/16W	[M]
R2154	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2155	ERJ3GEYJ104V	100K 1/16W	[M]
R2156	ERJ3GEYJ103V	10K 1/16W	[M]
R2157	ERJ3GEYJ102V	1K 1/16W	[M]
R2159	ERJ3GEYJ473V	47K 1/16W	[M]
R2160	ERJ3GEYJ153V	15K 1/16W	[M]
R2161	D0GB333JA002	33K 1/16W	[M]
R2162	ERJ3GEYJ682V	6.8K 1/16W	[M]
R2163	ERJ3GEYJ102V	1K 1/16W	[M]
R2164	ERJ3GEYJ123V	12K 1/16W	[M]
R2165	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2166	ERJ3GEYJ182V	1.8K 1/16W	[M]
R2167	D0GB273JA002	27K 1/16W	[M]
R2168	D0GB563JA002	56K 1/16W	[M]
R2169	ERJ3GEYJ123V	12K 1/16W	[M]
R2170	D0GB332JA002	3.3K 1/16W	[M]
R2172	ERJ3GEY0R00V	0 1/16W	[M]
R2174	ERJ3GEYJ473V	47K 1/16W	[M]
R2175	ERJ3GEYJ104V	100K 1/16W	[M]
R2176	ERJ3GEYJ473V	47K 1/16W	[M]
R2178	ERJ3GEYJ103V	10K 1/16W	[M]
R2200	ERJ3GEYJ102V	1K 1/16W	[M]
R2201	ERJ3GEYJ473V	47K 1/16W	[M]
R2206	ERJ3GEYJ102V	1K 1/16W	[M]
R2207	ERJ3GEYJ104V	100K 1/16W	[M]
R2208	D0GB272JA002	2.7K 1/16W	[M]
R2211	ERJ3GEYJ104V	100K 1/16W	[M]
R2212	ERJ3GEYJ103V	10K 1/16W	[M]
R2213	ERJ3GEYJ103V	10K 1/16W	[M]
R2214	ERJ3GEYJ103V	10K 1/16W	[M]
R2215	D0GB273JA002	27K 1/16W	[M]
R2216	ERJ3GEYJ104V	100K 1/16W	[M]
R2217	ERJ3GEYJ104V	100K 1/16W	[M]
R2218	ERJ3GEYJ223V	22K 1/16W	[M]
R2219	ERJ3GEYJ123V	12K 1/16W	[M]
R2220	ERJ3GEYJ123V	12K 1/16W	[M]
R2221	D0GB122JA019	1.2K 1/16W	[M]
R2222	ERJ3GEYJ223V	22K 1/16W	[M]
R2223	ERJ3GEYJ103V	10K 1/16W	[M]
R2224	ERJ3GEYJ103V	10K 1/16W	[M]
R2225	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2226	ERJ3GEYJ104V	100K 1/16W	[M]
R2227	ERJ3GEYJ104V	100K 1/16W	[M]
R2228	ERJ3GEYJ102V	1K 1/16W	[M]
R2229	ERJ3GEYJ103V	10K 1/16W	[M]
R2230	ERJ3GEYJ103V	10K 1/16W	[M]
R2231	ERJ3GEYJ103V	10K 1/16W	[M]
R2232	ERJ3GEYJ103V	10K 1/16W	[M]
R2233	ERJ3GEYJ103V	10K 1/16W	[M]
R2234	ERJ3GEYJ103V	10K 1/16W	[M]
R2244	D0GB392JA002	3.9K 1/16W	[M]
R2245	ERJ3GEYJ682V	6.8K 1/16W	[M]
R2246	D0GB333JA002	33K 1/16W	[M]
R2247	ERJ3GEYJ220V	22 1/16W	[M]
R2248	ERJ3GEYJ220V	22 1/16W	[M]
R2249	ERJ3GEYJ220V	22 1/16W	[M]
R2250	ERJ3GEYJ220V	22 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R2251	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2252	D0GB272JA002	2.7K 1/16W	[M]
R2253	D0GB100JA002	10 1/16W	[M]
R2254	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2255	ERJ3GEYJ104V	100K 1/16W	[M]
R2256	ERJ3GEYJ103V	10K 1/16W	[M]
R2257	ERJ3GEYJ102V	1K 1/16W	[M]
R2259	ERJ3GEYJ473V	47K 1/16W	[M]
R2260	ERJ3GEYJ153V	15K 1/16W	[M]
R2261	ERJ3GEYJ682V	6.8K 1/16W	[M]
R2262	D0GB333JA002	33K 1/16W	[M]
R2263	ERJ3GEYJ102V	1K 1/16W	[M]
R2264	ERJ3GEYJ123V	12K 1/16W	[M]
R2265	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2266	ERJ3GEYJ182V	1.8K 1/16W	[M]
R2267	D0GB563JA002	56K 1/16W	[M]
R2268	D0GB273JA002	27K 1/16W	[M]
R2269	ERJ3GEYJ123V	12K 1/16W	[M]
R2271	ERJ3GEYR000V	0 1/16W	[M]
R2273	ERJ3GEYJ473V	47K 1/16W	[M]
R2274	ERJ3GEYJ104V	100K 1/16W	[M]
R2275	ERJ3GEYJ473V	47K 1/16W	[M]
R2278	ERJ3GEYJ103V	10K 1/16W	[M]
R2300	ERJ3GEYJ103V	10K 1/16W	[M]
R2301	D0GB332JA002	3.3K 1/16W	[M]
R2302	ERJ3GEYJ103V	10K 1/16W	[M]
R2303	D0GB393JA002	39K 1/16W	[M]
R2304	ERJ3GEYJ822V	8.2K 1/16W	[M]
R2305	ERJ3GEYJ102V	1K 1/16W	[M]
R2306	ERJ3GEYJ104V	100K 1/16W	[M]
R2307	D0GB101JA002	100 1/16W	[M]
R2308	ERJ3GEYJ182V	1.8K 1/16W	[M]
R2309	D0GB563JA002	56K 1/16W	[M]
R2310	D0GB273JA002	27K 1/16W	[M]
R2311	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2312	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2314	ERJ3GEYJ223V	22K 1/16W	[M]
R2315	ERJ3GEYJ223V	22K 1/16W	[M]
R2316	D0GB273JA002	27K 1/16W	[M]
R2317	ERJ3GEYJ103V	10K 1/16W	[M]
R2318	ERJ3GEYJ473V	47K 1/16W	[M]
R2319	ERJ3GEYJ223V	22K 1/16W	[M]
R2320	ERJ3GEYJ223V	22K 1/16W	[M]
R2321	ERJ3GEYJ223V	22K 1/16W	[M]
R2322	D0GB333JA002	33K 1/16W	[M]
R2323	ERJ3GEYJ104V	100K 1/16W	[M]
R2400	ERJ3GEYJ103V	10K 1/16W	[M]
R2401	D0GB332JA002	3.3K 1/16W	[M]
R2402	ERJ3GEYJ103V	10K 1/16W	[M]
R2403	D0GB393JA002	39K 1/16W	[M]
R2404	ERJ3GEYJ822V	8.2K 1/16W	[M]
R2405	ERJ3GEYJ102V	1K 1/16W	[M]
R2406	ERJ3GEYJ104V	100K 1/16W	[M]
R2407	D0GB101JA002	100 1/16W	[M]
R2500	ERJ3GEYJ103V	10K 1/16W	[M]
R2501	D0GB393JA002	39K 1/16W	[M]
R2502	ERJ3GEYJ822V	8.2K 1/16W	[M]
R2503	D0GB332JA002	3.3K 1/16W	[M]
R2504	ERJ3GEYJ682V	6.8K 1/16W	[M]
R2505	ERJ3GEYJ102V	1K 1/16W	[M]
R2506	D0GB333JA002	33K 1/16W	[M]
R2507	ERJ3GEYJ153V	15K 1/16W	[M]
R2508	ERJ3GEYJ182V	1.8K 1/16W	[M]
R2509	D0GB563JA002	56K 1/16W	[M]
R2510	D0GB273JA002	27K 1/16W	[M]
R2511	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2512	ERJ3GEYJ103V	10K 1/16W	[M]
R2513	D0GB273JA002	27K 1/16W	[M]
R2514	ERJ3GEYJ103V	10K 1/16W	[M]
R2516	ERJ3GEYJ103V	10K 1/16W	[M]
R2600	D0GB392JA002	3.9K 1/16W	[M]
R2602	ERJ3GEYJ473V	47K 1/16W	[M]
R2603	ERJ3GEYJ203V	20K 1/16W	[M]
R2604	D0GB333JA002	33K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R2605	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2606	ERJ3GEYJ103V	10K 1/16W	[M]
R2607	ERJ3GEYJ123V	12K 1/16W	[M]
R2608	ERJ3GEYJ823V	82K 1/16W	[M]
R2609	D0GB563JA002	56K 1/16W	[M]
R2610	D0GB302JA008	3K 1/16W	[M]
R2611	D0GB563JA002	56K 1/16W	[M]
R2612	ERJ3GEYJ682V	6.8K 1/16W	[M]
R2613	D0GB332JA002	3.3K 1/16W	[M]
R2614	ERJ3GEYJ102V	1K 1/16W	[M]
R2615	ERJ3GEYJ104V	100K 1/16W	[M]
R2616	D0GB273JA002	27K 1/16W	[M]
R2617	D0GB183JA002	18K 1/16W	[M]
R2618	ERJ3GEYJ102V	1K 1/16W	[M]
R2619	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2620	ERJ3GEYJ182V	1.8K 1/16W	[M]
R2621	D0GB563JA002	56K 1/16W	[M]
R2622	D0GB273JA002	27K 1/16W	[M]
R2623	ERJ3GEYJ104V	100K 1/16W	[M]
R2624	ERJ3GEYJ104V	100K 1/16W	[M]
R2625	D0GB562JA002	5.6K 1/16W	[M]
R2626	ERJ3GEYJ822V	8.2K 1/16W	[M]
R2803	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2804	D0GB272JA002	2.7K 1/16W	[M]
R2805	ERJ3RED680V	68 3W	[M]
R2806	ERJ3RED680V	68 3W	[M]
R2807	ERJ3GEYJ103V	10K 1/16W	[M]
R2808	ERJ3RBD182V	1.8K 3W	[M]
R2809	ERJ3GEYJ102V	1K 1/16W	[M]
R2810	ERJ3GEYJ102V	1K 1/16W	[M]
R2811	ERJ3RBD182V	1.8K 3W	[M]
R2812	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2813	ERJ3GEYJ102V	1K 1/16W	[M]
R2815	ERJ3GEYJ331V	330 1/16W	[M]
R2816	D0GB392JA002	3.9K 1/16W	[M]
R2818	D0GB272JA002	2.7K 1/16W	[M]
R2819	D0GB1R0JA002	1 1/16W	[M]
R2820	D0GB1R0JA002	1 1/16W	[M]
R2821	D0GB1R0JA002	1 1/16W	[M]
R2822	D0GB1R0JA002	1 1/16W	[M]
R2823	D0GB1R0JA002	1 1/16W	[M]
R2824	D0GB821JA002	820 1/16W	[M]
R2825	ERJ3GEYJ103V	10K 1/16W	[M]
R2826	D0GB122JA019	1.2K 1/16W	[M]
R2827	D0GB2R7JA019	2.7 1/16W	[M]
R2828	D0GB2R7JA019	2.7 1/16W	[M]
R2829	D0GB2R7JA019	2.7 1/16W	[M]
R2830	D0GB2R7JA019	2.7 1/16W	[M]
R2831	D0GB151JA008	150 1/16W	[M]
R2832	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2833	D0GB272JA002	2.7K 1/16W	[M]
R2834	D0GB272JA002	2.7K 1/16W	[M]
R2835	ERD2FCVJ4R7T	4.7 1/4W	[M]
R2836	D0GB272JA002	2.7K 1/16W	[M]
R2837	ERJ3GEYJ561V	560 1/16W	[M]
R2845	D0GB151JA008	150 1/16W	[M]
R2846	D0GB821JA002	820 1/16W	[M]
R2847	ERJ3GEYJ471V	470 1/16W	[M]
R2848	ERJ3GEYJ182V	1.8K 1/16W	[M]
R2849	ERD2FCVJ4R7T	4.7 1/4W	[M]
R2850	ERDS1FVJ8R2T	8.2 1/2W	[M]
R2851	D0GB101JA002	100 1/16W	[M]
R2852	ERJ3GEYJ123V	12K 1/16W	[M]
R2853	ERD2FCVJ4R7T	4.7 1/4W	[M]
R2857	ERJ3GEYJ153V	15K 1/16W	[M]
R2858	D0GB393JA002	39K 1/16W	[M]
R2859	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2860	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2861	ERJ3GEYJ103V	10K 1/16W	[M]
R2862	D0HB750ZA003	75 3W	[M]
R2863	D0HB750ZA003	75 3W	[M]
R2872	ERJ3GEYJ102V	1K 1/16W	[M]
R2873	D0GB273JA002	27K 1/16W	[M]
R2874	D0GB563JA002	56K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R2875	D0GB273JA002	27K 1/16W	[M]
R2876	D0GB563JA002	56K 1/16W	[M]
R2877	ERJ3GEYJ182V	1.8K 1/16W	[M]
R2878	D0GB1R0JA002	1 1/16W	[M]
R2879	D0GB1R0JA002	1 1/16W	[M]
R2880	D0GB1R0JA002	1 1/16W	[M]
R2881	D0GB1R0JA002	1 1/16W	[M]
R2882	D0GB1R0JA002	1 1/16W	[M]
R2883	D0GB1R0JA002	1 1/16W	[M]
R2884	D0GB1R0JA002	1 1/16W	[M]
R2885	D0GB1R0JA002	1 1/16W	[M]
R2886	D0HB750ZA003	75 3W	[M]
R2887	D0HB750ZA003	75 3W	[M]
R2888	D0HB750ZA003	75 3W	[M]
R2889	D0HB750ZA003	75 3W	[M]
R2890	D0HB750ZA003	75 3W	[M]
R2891	D0HB750ZA003	75 3W	[M]
R2892	ERJ3GEYJ473V	47K 1/16W	[M]
R2893	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2894	ERJ3GEYJ224V	220K 1/16W	[M]
R2895	ERJ3GEYJ103V	10K 1/16W	[M]
R2896	ERJ3GEYJ102V	1K 1/16W	[M]
R2897	ERJ3GEYJ182V	1.8K 1/16W	[M]
R2898	ERJ3GEYJ561V	560 1/16W	[M]
R2899	ERJ3GEYJ102V	1K 1/16W	[M]
R2900	ERJ3GEYJ102V	1K 1/16W	[M]
R2903	D0GB273JA002	27K 1/16W	[M]
R2905	D0GB563JA002	56K 1/16W	[M]
R2909	ERJ3GEYJ182V	1.8K 1/16W	[M]
R2912	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2913	ERJ3GEYJ471V	470 1/16W	[M]
R2914	ERJ3GEYJ473V	47K 1/16W	[M]
R2916	ERJ3GEYJ103V	10K 1/16W	[M]
R2917	ERJ3GEYJ103V	10K 1/16W	[M]
R2918	ERJ3GEYJ471V	470 1/16W	[M]
R2920	ERJ3GEYJ123V	12K 1/16W	[M]
R2970	ERJ3GEYOR00V	0 1/16W	[M]
R2977	ERJ3GEYOR00V	0 1/16W	[M]
R2978	ERJ3GEYJ103V	10K 1/16W	[M]
R2980	ERJ3GEYOR00V	0 1/16W	[M]
R2981	ERJ3GEYOR00V	0 1/16W	[M]
R2982	ERJ3GEYOR00V	0 1/16W	[M]
R2983	ERJ3GEYOR00V	0 1/16W	[M]
R6005	ERJ3GEYJ681V	680 1/16W	[M]
R6006	ERJ3GEYJ102V	1K 1/16W	[M]
R6007	D0GB122JA019	1.2K 1/16W	[M]
R6008	ERJ3GEYJ182V	1.8K 1/16W	[M]
R6009	D0GB390JA002	39 1/16W	[M]
R6011	D0GB151JA008	150 1/16W	[M]
R6012	D0GB151JA008	150 1/16W	[M]
R6013	ERJ3GEYJ223V	22K 1/16W	[M]
R6014	D0GB273JA002	27K 1/16W	[M]
R6015	ERJ3GEYJ102V	1K 1/16W	[M]
R6016	ERJ3GEYJ221V	220 1/16W	[M]
R6017	ERJ3GEYJ102V	1K 1/16W	[M]
R6018	ERJ3GEYJ222V	2.2K 1/16W	[M]
R6019	ERJ3GEYJ680V	68 1/16W	[M]
R6022	ERJ3GEYJ102V	1K 1/16W	[M]
R6024	ERJ3GEYJ102V	1K 1/16W	[M]
R6025	D0GB122JA019	1.2K 1/16W	[M]
R6026	ERJ3GEYJ182V	1.8K 1/16W	[M]
R6027	ERJ3GEYJ102V	1K 1/16W	[M]
R6028	ERJ3GEYJ223V	22K 1/16W	[M]
R6029	ERJ3GEYJ223V	22K 1/16W	[M]
R6038	ERJ3GEYJ102V	1K 1/16W	[M]
R6050	D0GB2R7JA019	2.7 1/16W	[M]
R6051	D0GB2R7JA019	2.7 1/16W	[M]
R6099	ERJ3GEYJ222V	2.2K 1/16W	[M]
R8011	ERJ3GEYOR00V	0 1/16W	[M]
R8021	ERJ2GEJ103X	10K 2W	[M]
R8022	ERJ2GEJ103X	10K 2W	[M]
R8023	ERJ2GEJ473X	47K 2W	[M]
R8041	ERJ2GEJ330X	33 2W	[M]
R8232	ERJ2GEJ103X	10K 2W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R8233	ERJ3GEYJ153V	15K 1/16W	[M]
R8235	ERJ3GEYJ822V	8.2K 1/16W	[M]
R8236	ERJ3GEYJ822V	8.2K 1/16W	[M]
R8241	ERJ3GEYJ223V	22K 1/16W	[M]
R8242	D0GB752JA008	7.5K 1/16W	[M]
R8251	D0GF6R8JA017	6.8 1/16W	[M]
R8271	ERJ14YKR39H	0.39 1/4W	[M]
R8281	D0GB101JA002	100 1/16W	[M]
R8282	D0GB101JA002	100 1/16W	[M]
R8311	ERJ3RBD242V	2.4K 3W	[M]
R8312	ERJ3RBD102V	1K 3W	[M]
R8313	ERJ3RBD243V	24K 3W	[M]
R8314	ERJ3GEYOR00V	0 1/16W	[M]
R8315	ERJ3GEYJ6R8V	6.8 1/16W	[M]
R8321	ERJ3RBD161V	160 3W	[M]
R8322	ERJ3RED100V	10 3W	[M]
R8325	ERJ3RBD161V	160 3W	[M]
R8326	ERJ3RED100V	10 3W	[M]
R8331	ERJ3RBD161V	160 3W	[M]
R8332	ERJ3RED100V	10 3W	[M]
R8335	ERJ3RED820V	82 3W	[M]
R8341	ERJ3RED820V	82 3W	[M]
R8401	ERJ2GEJ473X	47K 2W	[M]
R8402	ERJ2GEJ101X	100 2W	[M]
R8403	ERJ2GEJ101X	100 2W	[M]
R8404	ERJ2GEJ101X	100 2W	[M]
R8420	ERJ3GEYJ222V	2.2K 1/16W	[M]
R8451	ERJ3GEYOR00V	0 1/16W	[M]
R8501	ERJ3GEYOR00V	0 1/16W	[M]
R8550	D0GB752JA008	7.5K 1/16W	[M]
R8551	ERJ3GEYOR00V	0 1/16W	[M]
R8552	ERJ3GEYJ331V	330 1/16W	[M]
R8553	ERJ3GEYJ102V	1K 1/16W	[M]
R8554	ERJ3GEYJ220V	22 1/16W	[M]
R8555	ERJ3GEYJ2R2V	2.2 1/16W	[M]
R8556	D0GB560JA002	56 1/16W	[M]
R8557	ERJ3GEYJ510V	51 1/16W	[M]
R8558	ERJ3GEYJ473V	47K 1/16W	[M]
R8559	ERJ3GEYJ153V	15K 1/16W	[M]
R8560	ERJ3GEYJ102V	1K 1/16W	[M]
R8561	ERJ3GEYOR00V	0 1/16W	[M]
R8562	ERJ3GEYJ331V	330 1/16W	[M]
R8563	ERJ3GEYJ102V	1K 1/16W	[M]
R8564	D0GB100JA002	10 1/16W	[M]
R8565	ERJ3GEYJ2R2V	2.2 1/16W	[M]
R8566	D0GB560JA002	56 1/16W	[M]
R8567	ERJ3GEYJ510V	51 1/16W	[M]
R8568	ERJ3GEYJ473V	47K 1/16W	[M]
R8569	ERJ3GEYJ123V	12K 1/16W	[M]
R8570	ERJ3GEYJ104V	100K 1/16W	[M]
R8601	ERJ3GEYJ102V	1K 1/16W	[M]
R8605	ERJ3GEYJ104V	100K 1/16W	[M]
R8606	ERJ3GEYJ103V	10K 1/16W	[M]
R8611	ERJ2GEJ101X	100 2W	[M]
R8621	D0GB105JA002	1M 1/16W	[M]
R8622	ERJ3RBD471V	470 3W	[M]
K8001	ERJ2GEOR00X	0 1/4W	[M]
K8003	ERJ2GEOR00X	0 1/4W	[M]
K8006	ERJ2GEOR00X	0 1/4W	[M]
K8008	ERJ2GEOR00X	0 1/4W	[M]
K8100	ERJ3GEYOR00V	0 1/16W	[M]
K8321	ERJ2GEOR00X	0 1/4W	[M]
K8325	ERJ2GEOR00X	0 1/4W	[M]
K8331	ERJ2GEOR00X	0 1/4W	[M]
K8335	ERJ2GEOR00X	0 1/4W	[M]
K8341	ERJ2GEOR00X	0 1/4W	[M]
K8421	ERJ3GEYOR00V	0 1/16W	[M]
K8651	ERJ2GEOR00X	0 1/4W	[M]
RA8011	EXB28V820JX	82 1/16W	[M]
RA8012	EXB28V820JX	82 1/16W	[M]
RA8013	EXB28V820JX	82 1/16W	[M]
RA8014	EXB28V820JX	82 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
RA8015	EXB24V220JX	22 1/16W	[M]
RA8016	EXB28V820JX	82 1/16W	[M]
RA8017	EXB28V820JX	82 1/16W	[M]
RA8018	EXB28V820JX	82 1/16W	[M]
RA8021	EXB24V103JX	10K 1/16W	[M]
RA8031	EXB24V472JX	4.7K 1/16W	[M]
RA8032	EXB24V472JX	4.7K 1/16W	[M]
RA8271	EXB24V103JX	10K 1/16W	[M]
RA8401	EXB24V101JX	100 1/16W	[M]
RA8402	EXB24V101JX	100 1/16W	[M]
RA8501	EXB24V560JX	56 1/16W	[M]
RA8502	EXB28V560JX	56 1/16W	[M]
RA8503	EXB24V560JX	56 1/16W	[M]
RA8504	EXB24V560JX	56 1/16W	[M]
RA8611	EXB24V472JX	4.7K 1/16W	[M]
		CAPACITORS	
C984	ECA1EAK100XB	10 25V	[M]
C1001	ECEA1CKA101B	100 16V	[M]
C1004	ECJ1VFIH103Z	0.01 50V	[M]
C1005	ECJ1VB1H103K	0.01 50V	[M]
C1006	ECUV1C104KBV	0.1 16V	[M]
C1007	ECJ1VB1A105K	1 10V	[M]
C1008	ECJ1VB1A105K	1 10V	[M]
C1009	ECJ1VB1A105K	1 10V	[M]
C1010	ECEA1AKA220B	22 10V	[M]
C1011	ECJ1VFIH104Z	0.1 50V	[M]
C1012	ECJ1VFIH104Z	0.1 50V	[M]
C1013	ECEA0JKA221B	220 6.3V	[M]
C1014	ECEA0JKA221B	220 6.3V	[M]
C1015	ECEA0JKA221B	220 6.3V	[M]
C1016	ECEA0JKA221B	220 6.3V	[M]
C1017	ECEA0JKA221B	220 6.3V	[M]
C1018	ECJ1VB1H103K	0.01 50V	[M]
C1019	ECJ1VFIH104Z	0.1 50V	[M]
C1020	ECA1HAK2R2XB	2.2 50V	[M]
C2000	ECUV1C104KBV	0.1 16V	[M]
C2001	ECUV1C104KBV	0.1 16V	[M]
C2003	ECEA1AKA220B	22 10V	[M]
C2004	ECJ1VB1H103K	0.01 25V	[M]
C2005	RCE1AM102B	1000P 10V	[M]
C2006	ECEA1HKA2R2B	2.2 50V	[M]
C2007	ECUV1C104KBV	0.1 16V	[M]
C2008	ECUV1C104KBV	0.1 16V	[M]
C2009	ECEA0JKA101B	100 6.3V	[M]
C2010	ECEA1HKA100I	10 50V	[M]
C2011	ECEA1HKA100B	10 50V	[M]
C2012	ECJ1VB1H561K	560P 50V	[M]
C2013	ECJ1VC1H470J	47P 50V	[M]
C2014	ECJ1VB1H331K	330P 50V	[M]
C2015	ECJ1VC1H470J	47P 50V	[M]
C2016	ECJ1VB1H103K	0.01 50V	[M]
C2017	ECJ1VB1H102K	1000P 50V	[M]
C2018	ECEA0JKA470B	47 6.3V	[M]
C2019	ECJ1VB1H331K	330P 50V	[M]
C2020	ECJ1VB1H331K	330P 50V	[M]
C2021	ECJ1VB1H331K	330P 50V	[M]
C2022	ECJ1VB1H223K	0.022 50V	[M]
C2026	ECJ1VB1H103K	0.01 50V	[M]
C2027	ECJ1VB1H103K	0.01 50V	[M]
C2028	ECJ1VB1A105K	1 10V	[M]
C2029	ECJ1VB1A105K	1 10V	[M]
C2030	ECJ1VB1A105K	1 10V	[M]
C2031	ECJ1VB1A105K	1 10V	[M]
C2032	ECUV1C104KBV	0.1 16V	[M]
C2033	ECJ1VB1H103K	0.01 50V	[M]
C2034	ECUV1C104KBV	0.1 16V	[M]
C2035	ECJ1VB1H103K	0.01 50V	[M]
C2036	ECEA1HKA220I	22 50V	[M]
C2037	ECJ1VB1H103K	0.01 50V	[M]
C2038	ECEA1AKA221I	220 10V	[M]
C2039	ECJ1VB1H103K	0.01 50V	[M]
C2040	ECA0JMI02B	1000 6.3V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C2041	ECEA0JKA101B	100 6.3V	[M]
C2042	ECA0JMI02B	1000 6.3V	[M]
C2043	ECEA0JKA101B	100 6.3V	[M]
C2044	F2A0J102A130	1000P 6.3V	[M]
C2045	ECEA0JKA101B	100 6.3V	[M]
C2046	ECEA0JKA331I	330 6.3V	[M]
C2047	ECEA0JKA331I	330 6.3V	[M]
C2048	ECEA0JKA470B	47 6.3V	[M]
C2049	ECJ1VB1A105K	10 10V	[M]
C2050	ECEA0JKA470B	47 6.3V	[M]
C2051	ECJ1VB1A105K	1 10V	[M]
C2052	EEUFC0J821B	820P 6.3V	[M]
C2053	ECJ1VB1A105K	1 10V	[M]
C2054	ECA1EM221B	220 25V	[M]
C2055	ECJ1VB1A105K	1 10V	[M]
C2056	ECEA1EKA330B	33 25V	[M]
C2057	ECJ1VB1H103K	0.01 50V	[M]
C2058	ECJ1VB1A105K	1 10V	[M]
C2059	ECA1EM221B	220 25V	[M]
C2060	ECJ1VB1A105K	1 10V	[M]
C2061	EEUFC0J821B	820P 6.3V	[M]
C2062	ECJ1VB1A105K	1 10V	[M]
C2063	ECEA1AKA470B	47 10V	[M]
C2066	ECA1HMI01B	100 50V	[M]
C2067	ECJ1VB1H103K	0.01 50V	[M]
C2068	ECEA1EKA330B	33 25V	[M]
C2069	ECJ1VB1H103K	0.01 50V	[M]
C2070	ECA1JMI01B	100 63V	[M]
C2071	ECA1JMI01B	100 63V	[M]
C2072	ECA1HMI01B	100 50V	[M]
C2073	F2A1E1020065	1000P 25V	[M]
C2074	ECA1JMI01B	100 63V	[M]
C2075	ECA1HMI01B	100 50V	[M]
C2076	F2A1E1020065	1000P 25V	[M]
C2077	ECQE1104KF3	0.1 100V	[M]
C2080	ECA1EM472B	4700 25V	[M]
C2081	ECA1VM221B	220 35V	[M]
C2082	ECEA1HKA470I	47 50V	[M]
C2083	ECA1EM101B	100 25V	[M]
C2084	ECJ1VB1H103K	0.01 50V	[M]
C2085	ECA1EM101B	100 25V	[M]
C2086	ECJ1VB1H103K	0.01 50V	[M]
C2087	ECA1EM101B	100 25V	[M]
C2088	ECJ1VB1H103K	0.01 50V	[M]
C2089	ECEA1HKN4R7B	4.7 50V	[M]
C2090	ECJ1VB1E103K	0.01 25V	[M]
C2091	F2A0J471A201	470P 6.3V	[M]
C2095	ECA1CAD100XI	10 16V	[M]
C2099	ECEA1HKN4R7B	4.7 50V	[M]
C2100	ECEA1HKA010I	1 50V	[M]
C2101	ECJ1VB1H332K	3300P 50V	[M]
C2102	ECJ1VB1C183K	0.018 16V	[M]
C2106	ECEA1HKA4R7I	4.7 50V	[M]
C2107	ECEA1HKA3R3I	3.3 50V	[M]
C2120	ECJ1VB1A105K	1 10V	[M]
C2121	ECJ1VC1H151K	150P 50V	[M]
C2122	ECJ1VB1H471K	470P 50V	[M]
C2123	ECEA1HKA100I	10 50V	[M]
C2124	ECJ1VC1H101K	100P 50V	[M]
C2125	ECJ1VC1H330J	33P 50V	[M]
C2126	ECJ1VB1E103K	0.01 25V	[M]
C2127	ECEA1HKA4R7I	4.7 50V	[M]
C2128	ECEA1HKA100B	10 50V	[M]
C2129	ECJ1VB1H332K	3300P 50V	[M]
C2130	ECJ1VB1A154K	0.15 10V	[M]
C2131	ECJ1VC1H470J	47P 50V	[M]
C2132	ECJ1VC1H101K	100P 50V	[M]
C2133	ECJ1VB1E103K	0.01 25V	[M]
C2134	ECJ1VC1H101K	100P 50V	[M]
C2135	ECJ1VC1H470J	47P 50V	[M]
C2136	ECJ1VB1H221K	220P 50V	[M]
C2137	ECUV1H104KBV	0.1 50V	[M]
C2138	ECJ1VC1H221J	220P 50V	[M]
C2139	ECJ1VC1H101K	100P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C2140	ECJ1VB1H681K	680P 50V	[M]
C2141	ECJ1VC1H101K	100P 50V	[M]
C2149	ECJ1VB1A105K	1 10V	[M]
C2150	ECEA1HKA010B	1 50V	[M]
C2151	ECJ1VC1H101K	100P 50V	[M]
C2152	ECJ1VC1H470J	47P 50V	[M]
C2153	ECEA1CKA101B	100 16V	[M]
C2154	ECJ1VB1E103K	0.01 25V	[M]
C2155	ECJ1VB1H102K	1000P 50V	[M]
C2156	ECJ1VB1A105K	1 10V	[M]
C2157	ECEA1HKA100B	10 50V	[M]
C2158	ECJ1VB1A105K	1 10V	[M]
C2159	ECJ1VB1H471K	470P 50V	[M]
C2160	ECJ1VB1H471K	470P 50V	[M]
C2161	ECUV1C104KBV	0.1 16V	[M]
C2162	ECJ1VB1C333K	0.033 16V	[M]
C2163	ECEA1HKA3R3B	3.3 50V	[M]
C2164	ECJ1VB1H472K	4700P 50V	[M]
C2165	ECUV1C104KBV	0.1 16V	[M]
C2166	ECUV1C104KBV	0.1 16V	[M]
C2167	FlK1A4750013	47 10V	[M]
C2168	ECEA1HKA4R7I	4.7 50V	[M]
C2169	ECJ1VB1H471K	470P 50V	[M]
C2170	ECEA1HKA4R7I	4.7 50V	[M]
C2171	ECUV1C104KBV	0.1 16V	[M]
C2173	ECJ1VB1A105K	1 10V	[M]
C2174	ECJ1VB1H223K	0.022 50V	[M]
C2175	ECUV1C104KBV	0.1 16V	[M]
C2200	ECEA1HKA010I	1 50V	[M]
C2201	ECJ1VB1H332K	3300P 50V	[M]
C2202	ECJ1VB1C183K	0.018 16V	[M]
C2206	ECEA1HKA4R7I	4.7 50V	[M]
C2207	ECEA1HKA3R3I	3.3 50V	[M]
C2218	ECJ1VB1A105K	1 10V	[M]
C2219	ECUV1C104KBV	0.1 16V	[M]
C2220	ECUV1C104KBV	0.1 16V	[M]
C2221	ECJ1VC1H151K	150P 50V	[M]
C2222	ECJ1VB1H471K	470P 50V	[M]
C2223	ECEA1HKA100I	10 50V	[M]
C2224	ECJ1VC1H101K	100P 50V	[M]
C2225	ECJ1VC1H330J	33P 50V	[M]
C2226	ECJ1VB1E103K	0.01 25V	[M]
C2227	ECEA1HKA4R7I	4.7 50V	[M]
C2228	ECEA1HKA100B	10 50V	[M]
C2229	ECJ1VB1H332K	3300P 50V	[M]
C2230	ECJ1VB1A154K	0.15 10V	[M]
C2231	ECJ1VC1H470J	47P 50V	[M]
C2232	ECJ1VC1H101K	100P 50V	[M]
C2233	ECJ1VB1E103K	0.01 25V	[M]
C2234	ECJ1VC1H101K	100P 50V	[M]
C2235	ECJ1VC1H470J	47P 50V	[M]
C2236	ECJ1VC1H221J	220P 50V	[M]
C2237	ECUV1H104KBV	0.1 50V	[M]
C2238	ECJ1VC1H221J	220P 50V	[M]
C2239	ECJ1VC1H101K	100P 50V	[M]
C2240	ECJ1VB1H681K	680P 50V	[M]
C2241	ECJ1VC1H101K	100P 50V	[M]
C2249	ECJ1VB1A105K	1 10V	[M]
C2250	ECEA1HKA010B	1 50V	[M]
C2251	ECJ1VC1H101K	100P 50V	[M]
C2252	ECJ1VC1H470J	47P 50V	[M]
C2253	ECEA1CKA101B	100 16V	[M]
C2254	ECJ1VB1E103K	0.01 25V	[M]
C2255	ECJ1VB1H102K	1000P 50V	[M]
C2256	ECJ1VB1A105K	1 10V	[M]
C2257	ECEA1HKA100B	10 50V	[M]
C2258	ECJ1VB1A105K	1 10V	[M]
C2259	ECJ1VB1H471K	470P 50V	[M]
C2260	ECJ1VB1H471K	470P 50V	[M]
C2261	ECUV1C104KBV	0.1 16V	[M]
C2262	ECJ1VB1C333K	0.033 16V	[M]
C2263	ECEA1HKA3R3B	3.3 50V	[M]
C2264	ECEA1HKA100I	10 50V	[M]
C2265	ECJ1VB1H472K	4700P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C2266	FlK1A4750013	47 10V	[M]
C2267	ECEA1HKA4R7I	4.7 50V	[M]
C2268	ECJ1VB1A105K	1 10V	[M]
C2269	ECJ1VB1H223K	0.022 50V	[M]
C2270	ECUV1C104KBV	0.1 16V	[M]
C2300	ECEA1HKA100B	10 50V	[M]
C2301	ECJ1VB1H471K	470P 50V	[M]
C2302	ECJ1VB1A105K	1 10V	[M]
C2303	ECEA1HKA3R3B	0.33 50V	[M]
C2304	ECJ1VC1H220J	22P 50V	[M]
C2305	ECJ1VC1H180J	18P 50V	[M]
C2306	FlJ0J4750002	47 6.3V	[M]
C2307	ECJ1VB1C823K	0.082 16V	[M]
C2400	ECEA1HKA100B	10 50V	[M]
C2401	ECJ1VB1A105K	1 10V	[M]
C2402	ECJ1VB1H471K	470P 50V	[M]
C2403	ECJ1VB1A105K	1 10V	[M]
C2404	ECEA1HKA3R3B	0.33 50V	[M]
C2405	ECJ1VB1A105K	1 10V	[M]
C2500	ECEA1HKA100B	10 50V	[M]
C2501	ECEA1HKA100I	10 50V	[M]
C2502	ECEA1HKA100I	10 50V	[M]
C2503	ECJ1VB1C333K	0.033 16V	[M]
C2504	ECUV1C104KBV	0.1 16V	[M]
C2505	ECEA1HKA010I	1 50V	[M]
C2506	ECJ1VB1E103K	0.01 25V	[M]
C2507	ECJ1VB1H471K	470P 50V	[M]
C2508	ECEA1HKA4R7I	4.7 50V	[M]
C2509	ECJ1VB1H331K	330P 50V	[M]
C2511	ECUV1H090DCV	9P 50V	[M]
C2512	FlJ0J4750002	47 6.3V	[M]
C2600	ECJ1VB1A105K	1 10V	[M]
C2601	ECJ1VB1H102K	1000P 50V	[M]
C2602	ECEA1HKA100I	10 50V	[M]
C2603	ECEA1HKA100I	10 50V	[M]
C2604	ECJ1VB1H222K	2200P 50V	[M]
C2605	ECUVNA224KBV	0.22 10V	[M]
C2606	ECUVNA224KBV	0.22 10V	[M]
C2607	ECUVNA224KBV	0.22 10V	[M]
C2608	ECJ1VB1C823K	0.082 16V	[M]
C2609	ECJ1VB1H682K	6800P 50V	[M]
C2610	ECEA1HKA100B	10 50V	[M]
C2611	ECEA1HKA4R7I	4.7 50V	[M]
C2612	ECEA1HKA4R7I	4.7 50V	[M]
C2613	ECJ1VB1E103K	0.01 25V	[M]
C2615	ECJ1VB1H562K	5600P 50V	[M]
C2616	ECEA1HKA100I	10 50V	[M]
C2617	ECEA1HKA4R7I	4.7 50V	[M]
C2618	ECUV1C104KBV	0.1 16V	[M]
C2800	ECEA1HKA4R7B	4.7 50V	[M]
C2801	ECJ1VC1H101K	100P 50V	[M]
C2802	ECJ1VC1H101K	100P 50V	[M]
C2803	ECJ1VC1H101K	100P 50V	[M]
C2804	ECJ1VC1H101K	100P 50V	[M]
C2805	ECJ1VC1H101K	100P 50V	[M]
C2806	ECJ1VC1H101K	100P 50V	[M]
C2807	ECJ1VC1H101K	100P 50V	[M]
C2808	ECJ1VC1H101K	100P 50V	[M]
C2809	ECJ1VB1H221K	220P 50V	[M]
C2810	ECJ1VB1H221K	220P 50V	[M]
C2811	ECJ1VB1E103K	0.01 25V	[M]
C2812	ECJ1VB1E103K	0.01 25V	[M]
C2815	ECA1CAD101XI	100 16V	[M]
C2816	ECEA1CKA100B	10 16V	[M]
C2817	ECEA1CKA100B	10 16V	[M]
C2818	ECEA1CKA470B	47 16V	[M]
C2819	ECEA1CKA470B	47 16V	[M]
C2821	ECJ1VB1A105K	1 10V	[M]
C2824	ECEA1HKA4R7I	4.7 50V	[M]
C2826	ECJ1VB1E103K	0.01 25V	[M]
C2827	ECJ1VB1E103K	0.01 25V	[M]
C2828	ECUV1C104KBV	0.1 16V	[M]
C2829	ECUV1C104KBV	0.1 16V	[M]
C2830	ECUV1C104KBV	0.1 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C6000	ECJ1VB1H473K	0.047 50V	[M]
C6001	ECJ1VB1H473K	0.047 50V	[M]
C6002	ECJ1VB1H102K	1000P 50V	[M]
C6003	ECEA1HKA220B	22 50V	[M]
C6005	ECEA1HKA220B	22 50V	[M]
C6006	ECJ1VB1H102K	1000P 50V	[M]
C6007	ECEA1HKS3R3B	3.3 50V	[M]
C6009	ECJ1VB1H103K	0.01 50V	[M]
C6010	ECJ1VC1H390K	39P 50V	[M]
C6011	ECEA0JKS101B	100 6.3V	[M]
C6012	ECJ1VB1H103K	0.01 50V	[M]
C6014	ECJ1VC1H101K	100P 50V	[M]
C6015	ECJ1VC1H101K	100P 50V	[M]
C6016	ECJ1VC1H101K	100P 50V	[M]
C6017	ECJ1VC1H101K	100P 50V	[M]
C6018	ECJ1VC1H101K	100P 50V	[M]
C6019	ECEA0JKS470B	47 6.3V	[M]
C6021	ECJ1VC1H101K	100P 50V	[M]
C6022	ECJ1VC1H101K	100P 50V	[M]
C8001	EEEF0C0J101P	100P 6.3V	[M]
C8002	EEEOGA331WP	330P 4V	[M]
C8003	ECJ1VB1H222K	2200P 50V	[M]
C8004	ECJ0EF1C104Z	0.1 16V	[M]
C8005	ECJ1ZF1C104Z	0.1 16V	[M]
C8006	ECJ1ZF1C104Z	0.1 16V	[M]
C8007	ECJ0EF1C104Z	0.1 16V	[M]
C8008	ECJ1ZF1C104Z	0.1 16V	[M]
C8009	ECJ1ZF1C104Z	0.1 16V	[M]
C8010	ECJ0EF1C104Z	0.1 16V	[M]
C8011	F1H0J1050013	1 6.3V	[M]
C8012	ECJ1ZF1C104Z	0.1 16V	[M]
C8013	ECJ1ZF1C104Z	0.1 16V	[M]
C8014	ECJ1ZF1C104Z	0.1 16V	[M]
C8015	F1H0J1050013	1 6.3V	[M]
C8016	F1H0J1050013	1 6.3V	[M]
C8017	ECJ0EF1C104Z	0.1 16V	[M]
C8018	ECJ0EF1C104Z	0.1 16V	[M]
C8019	F1H0J1050013	1 6.3V	[M]
C8020	ECJ0EF1C104Z	0.1 16V	[M]
C8021	ECJ0EF1C104Z	0.1 16V	[M]
C8022	ECJ1ZF1C104Z	0.1 16V	[M]
C8023	F1H0J1050013	1 6.3V	[M]
C8024	ECJ1VB1H222K	2200P 50V	[M]
C8025	ECJ1ZF1C104Z	0.1 16V	[M]
C8026	F1H0J1050013	1 6.3V	[M]
C8027	ECJ0EF1C104Z	0.1 16V	[M]
C8028	F1H0J1050013	1 6.3V	[M]
C8031	ECJ1ZF1C104Z	0.1 16V	[M]
C8051	F1H0J1050013	1 6.3V	[M]
C8052	ECJ0EF1C104Z	0.1 16V	[M]
C8053	ECJ1VC1H221J	220P 50V	[M]
C8054	F1H0J1050013	1 6.3V	[M]
C8055	F1H0J1050013	1 6.3V	[M]
C8056	ECJ0EF1C104Z	0.1 16V	[M]
C8057	ECJ1VB1H222K	2200P 50V	[M]
C8111	ECUVNC104KBV	0.1 16V	[M]
C8112	ECJ2FB1A105K	1 10V	[M]
C8113	ECJ1VC1H471J	470P 50V	[M]
C8201	EEEOJA101WR	100P 6.3V	[M]
C8202	EEEF0C0J101P	100P 6.3V	[M]
C8203	ECJ1ZF1C104Z	0.1 16V	[M]
C8204	ECJ1ZF1C104Z	0.1 16V	[M]
C8205	ECJ1ZF1C104Z	0.1 16V	[M]
C8206	F1H0J1050013	1 6.3V	[M]
C8207	ECJ1ZF1C104Z	0.1 16V	[M]
C8208	ECJ1ZF1C104Z	0.1 16V	[M]
C8211	ECJ1VB1C333K	0.033 16V	[M]
C8212	ECJ1ZF1C104Z	0.1 16V	[M]
C8213	ECJ1ZF1C104Z	0.1 16V	[M]
C8214	ECJ1ZF1C104Z	0.1 16V	[M]
C8215	ECJ1VB1H562K	5600P 50V	[M]
C8216	ECJ1VB1C183K	0.018 16V	[M]
C8217	F1H0J1050013	1 6.3V	[M]
C8218	F1H0J1050013	1 6.3V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C8221	ECUVNC104KBV	0.1 16V	[M]
C8222	ECUVNC104KBV	0.1 16V	[M]
C8223	ECUVNC104KBV	0.1 16V	[M]
C8224	ECUVNC104KBV	0.1 16V	[M]
C8225	ECJ1ZF1C104Z	0.1 16V	[M]
C8226	ECJ1ZF1C104Z	0.1 16V	[M]
C8227	ECJ1ZF1C104Z	0.1 16V	[M]
C8228	ECJ2FB1A105K	1 10V	[M]
C8229	ECJ2FB1A105K	1 10V	[M]
C8232	ECJ1ZF1C104Z	0.1 16V	[M]
C8233	ECJ1VB1H472K	4700P 50V	[M]
C8234	ECJ1ZF1C104Z	0.1 16V	[M]
C8235	ECJ1VC1H102J	1000P 50V	[M]
C8236	ECJ1VC1H102J	1000P 50V	[M]
C8237	ECJ1VC1H102J	1000P 50V	[M]
C8238	ECJ1VC1H821J	820P 50V	[M]
C8241	ECUVNC104KBV	0.1 16V	[M]
C8242	ECUVNC104KBV	0.1 16V	[M]
C8251	EEEF0C0J221P	220P 6.3V	[M]
C8252	EEEOJA220WR	22P 16V	[M]
C8253	ECJ1ZF1C104Z	0.1 16V	[M]
C8254	ECJ1ZF1C104Z	0.1 16V	[M]
C8255	ECJ1ZF1C104Z	0.1 16V	[M]
C8261	ECJ1ZF1C104Z	0.1 16V	[M]
C8271	EEEF0C1C470P	47P 16V	[M]
C8272	EEEOJA330WR	33P 6.3V	[M]
C8273	ECJ1ZF1C104Z	0.1 16V	[M]
C8274	ECJ1ZF1C104Z	0.1 16V	[M]
C8275	ECJ1ZF1C104Z	0.1 16V	[M]
C8284	ECJ1VB1H103K	0.01 50V	[M]
C8285	ECJ1VB1H103K	0.01 50V	[M]
C8286	ECJ1VB1H103K	0.01 50V	[M]
C8287	ECUVNC104KBV	0.1 16V	[M]
C8288	ECJ1ZF1C104Z	0.1 16V	[M]
C8301	EEEOJA221WP	220P 6.3V	[M]
C8302	EEEOJA330WR	33P 6.3V	[M]
C8303	ECJ1ZF1C104Z	0.1 16V	[M]
C8304	F1H0J1050013	1 6.3V	[M]
C8307	ECJ1ZF1C104Z	0.1 16V	[M]
C8311	ECJ1ZF1C104Z	0.1 16V	[M]
C8312	F1H0J1050013	1 6.3V	[M]
C8400	ECJ1VC1H150J	15P 50V	[M]
C8420	F2G0J331A015	330P 6.3V	[M]
C8423	ECJ1ZF1C104Z	0.1 16V	[M]
C8424	ECJ1ZF1C104Z	0.1 16V	[M]
C8451	F3F1A106A001	10 10V	[M]
C8452	F3F1A106A001	10 10V	[M]
C8453	F3F1A106A001	10 10V	[M]
C8455	ECJ0EF1C104Z	0.1 16V	[M]
C8456	ECJ1ZF1C104Z	0.1 16V	[M]
C8461	F2G0J101A015	100P 6.3V	[M]
C8462	ECJ1ZF1C104Z	0.1 16V	[M]
C8501	F1K1A1060017	10 10V	[M]
C8502	ECJ1ZF1C104Z	0.1 16V	[M]
C8503	ECJ1ZF1C104Z	0.1 16V	[M]
C8504	ECJ1ZF1C104Z	0.1 16V	[M]
C8505	ECJ1VC1H221J	220P 50V	[M]
C8506	ECUV1H101JCV	100P 50V	[M]
C8550	EEEOJA330WR	33P 6.3V	[M]
C8551	ECJ1ZF1C104Z	0.1 16V	[M]
C8552	EEEF0C1C100R	0.1 16V	[M]
C8553	EEEOJA470WR	47P 6.3V	[M]
C8554	F1H0J1050013	1 6.3V	[M]
C8561	ECJ1ZF1C104Z	0.1 16V	[M]
C8562	EEEF0C1C100R	0.1 16V	[M]
C8563	EEEOJA470WR	47P 6.3V	[M]
C8564	F1H0J1050013	1 6.3V	[M]
C8601	ECJ0EF1C104Z	0.1 16V	[M]
C8605	ECJ0EF1C104Z	0.1 16V	[M]
C8606	ECJ1VB1A224K	0.22 10V	[M]
C8611	ECJ1ZF1C104Z	0.1 16V	[M]
C8621	ECJ1VC1H390J	39P 50V	[M]
C8622	ECJ1VC1H050D	5P 50V	[M]
C8651	ECJ1ZF1C104Z	0.1 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C8652	ECJ1ZF1C104Z	0.1 16V	[M]
C8691	ECJ0EF1C104Z	0.1 16V	[M]

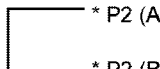
Ref. No.	Part No.	Part Name & Description	Remarks
C8695	ECJ0EF1C104Z	0.1 16V	[M]

26.4. Packing Materials & Accessories Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	RPGX1236	PACKING CASE	[M] EG
P1	RPGX1237	PACKING CASE	[M] E
P1	RPGX1238	PACKING CASE	[M] EB
P2	RPNX0213	POLYFOAM	[M]
P3	RPFX0058	MIRAMAT SHEET	[M]
		ACCESSORIES	
A1	EUR7722X10	REMOTE CONTROL	[M]
A1-1	UR76EC3103A	R/C BATTERY COVER	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
A2	RJA0019-2K	AC CORD	[M] △ EG E
A2	RJA0053-3X	AC CORD	[M] △ EB
A3	RQT7426-D	O/I BOOK (Ge/It/Fr)	[M] EG
A3	RQT7427-H	O/I BOOK (Du/Da/Sw)	[M] EG
A3	RQT7428-R	O/I BOOK (Sp/Po/Cz)	[M] E
A3	RQT7429-B	O/I BOOK (En)	[M] EB E
A4	RSA0007-J	FM ANTENNA	[M]
A5	KLYZ02000013	DIN ADAPTOR	[M] EB
A6	K2KA2CA00008	VIDEO CABLE	[M]
A7	K1HA25HA0001	SYSTEM CABLE	[M]

26.5. Packaging

P2 (RPNX0213)  * P2 (A)
* P2 (B)

A1: Remote Control
A2: AC Cord
A3: O/I Book
A4: FM Antenna
A5: Din Adaptor
A6: Video Cable
A7: System Cable

