

Service Manual

DVD Stereo System



SA-NC9GC
SA-NC9GS
SA-NC9GCS
SA-NC9GN

Colour

(K)... Black Type

Notes: This model's DVD mechanism changer unit is DL2SV.

Specifications

■ AMPLIFIER SECTION

RMS Output Power: Dolby Digital Mode

Front Ch	95 W per channel (3 Ω), 1 kHz, 10% THD
Surround Ch	95 W per channel (3 Ω), 1 kHz, 10% THD
Center Ch	95 W per channel (3 Ω), 1 kHz, 10% THD
Subwoofer Ch	115 W per channel (3 Ω), 100 Hz, 10% THD

Total RMS Dolby Digital mode power

590 W

PMPO output power (For GC, GS & GCS only)

6500 W

DIN Output Power: Dolby Digital Mode

Front Ch	65 W per channel (3 Ω), 1 kHz, 10% THD
Surround Ch	65 W per channel (3 Ω), 1 kHz, 10% THD
Center Ch	65 W per channel (3 Ω), 1 kHz, 10% THD
Subwoofer Ch	75 W per channel (3 Ω), 100 Hz, 10% THD

Total DIN Dolby Digital mode power

400 W

■ FM/AM TUNER, TERMINALS SECTION

Preset stations	FM 30 stations AM 30 stations
Frequency Modulation (FM)	
Frequency range	87.50 MHz to 108.00 MHz (50-kHz step)
Sensitivity	4.0 μ V (IHF)
S/N 26 dB	2.2 μ V
Antenna terminals	75 Ω (unbalanced)
Amplitude Modulation (AM)	
Frequency range	
For GC, GS & GCS only	522 kHz to 1629 kHz (9-kHz step) 520 kHz to 1630 kHz (10-kHz step)
For GN only	522 kHz to 1629 kHz (9-kHz step)
AM sensitivity S/N 20 dB at 999 kHz	1000 μ V/m
Phone jack	
Terminal	Stereo, 3.5-mm jack
Mic jack (For GC, GS & GCS only)	
Sensitivity	0.7 mV, 600 Ω
Terminal	Mono, 6.3-mm jack (2 system)
Music Port jack (Front)	
Sensitivity	100-mV, 10 k Ω
Terminal	Stereo, 3.5-mm jack
USB jack	

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USB Standard	USB 2.0 full speed 2.0
Media file format support	MP3 (*.mp3), WMA (*.wma), JPEG (*.Jpg, *JPEG), MPEG4 (*.asf)
USB device file system	FAT16, FAT32
USB port power	Max 500mA

n CASSETTE DECK SECTION

Track system	4-Track, 2 Channel
Head Record/Playback	Solid Permalloy Head
Erase	Double Gap Ferrite Head
Motor	DC Servo Motor
Recording System	AC Bias 100 kHz
Erase System	AC Erase 100 kHz
Tape Speed	4.8 cm/sec
Overall Frequency Response (+3, -6 dB) at DECK OUT	
Normal	35 Hz to 14 kHz
S/N Ratio	50 dB (A weighted)
Wow and Flutter	0.18% (WRMS)
Fast Forward and Rewind Time	Approx. 120 seconds with C-60 cassette tape

n DISC SECTION

Disc played [8 cm or 12 cm]

- (1) DVD (DVD-Video, DivX^{#1,#2})
- (2) DVD-RAM (DVD-VR, JPEG^{#2,#3}, MP3^{#2,#4}, MPEG4^{#2,#5}, DivX^{#1,#2})
- (3) DVD-R (DVD-Video, DVD-VR, JPEG^{#2,#3}, MP3^{#2,#4}, MPEG4^{#2,#5}, DivX^{#1,#2})
- (4) DVD-R DL (DVD-Video, DVD-VR)
- (5) DVD-RW (DVD-Video, DVD-VR, JPEG^{#2,#3}, MP3^{#2,#4}, MPEG4^{#2,#5}, DivX^{#1,#2})
- (6) +R/ +RW (Video)
- (7) +R DL (Video)
- (8) CD,CD-R/RW [CD-DA, Video CD, SVCD^{#6}, MP3^{#2,#4}, WMA^{#2,#7}, JPEG^{#2,#3}, MPEG4^{#2,#5}, DivX^{#1,#2}, HighMAT Level 2 (Audio and Image)]

^{#1} Plays all versions of DivX[®] video (including DivX[®]6) with standard playback of DivX[®] media files. Certified to the DivX Home Theater Profile. GMC (Global Motion Compensation) is not supported.

^{#2} The total combined maximum number of recognizable audio, picture and video contents and groups: 4000 audio, picture and video contents and 400 groups.

^{#3} Exif Ver 2.1 JPEG Baseline files

Picture resolution: between 160 x 120 and 6144 x 4096 pixels

(Sub sampling is 4:0:0, 4:2:0, 4:2:2 or 4:4:4). Extremely long and narrow pictures may not be displayed.

^{#4} MPEG-1 Layer 3, MPEG-2 Layer 3

^{#5} MPEG4 data recorded with the Panasonic SD multi cameras or DVD video recorders.

Conforming to SD VIDEO specifications (ASF standard) / MPEG4 (Simple Profile) video system / G.726 audio system

^{#6} Conforming to IEC62107

^{#7} Windows Media Audio Ver. 9.0 L3

Not compatible with Multiple Bit Rate (MBR)

Pick up

Wavelength (DVD/CD) 662 nm/785 nm

Laser power (DVD/CD) CLASS 1 / CLASS 1M

Audio output (Disc)

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

n VIDEO SECTION

Video system	PAL625/50, PAL525/60, NTSC
Composite video output	
Output level	1 Vp-p (75 Ω)
Terminal	Pin jack (1 system)
S-video output	
Y output level	1 Vp-p (75 Ω)
C output level	0.3 Vp-p (75 Ω) (PAL) 0.286 Vp-p (75 Ω) (NTSC)
Terminal	S terminal (1 system)
Component video output	
[NTSC : 480p / 480i, PAL: 576p / 576i]	
Y output level	1 Vp-p (75 Ω)
P _B output level	0.525 Vp-p (75 Ω)
P _R output level	0.525 Vp-p (75 Ω)
Terminal	Pin jack (Y: green, P _B : blue, P _R : red) (1 system)

HDMI AV output

Terminal Type A connector (19-pin)

This unit supports "HDAVI Control 2" function.

n GENERAL

Power supply

For GC only AC 220 to 240 V, 50/60Hz

For GCS/GS only AC 110 to 127V/220 to 240 V,
50/60Hz

For GN only AC 230 to 240 V, 50Hz

Power consumption 165 W

Power consumption in standby mode:

0.9 W (approximate)

Dimensions (W x H x D) 205 x 385 x 342 mm

Mass appx. 7.1 kg

Operating temperature range + 5 to + 35°C

Operating humidity range 5% to 90% RH (no condensation)

n SYSTEM

System	SC-NC9 GC
Music Center	SF-NC9 GC
Main Unit	SA-NC9 GC
Front Speakers	SB-PF9 GC
Subwoofer	SB-WNC9 GC

System	SC-NC9 GCS
Music Center	SF-NC9 GCS
Main Unit	SA-NC9 GCS
Front Speakers	SB-PF9 GC
Subwoofer	SB-WNC9 GC

System	SC-NC9 GS
Music Center	SF-NC9 GS
Main Unit	SA-NC9 GS
Front Speakers	SB-PF9 GC
Subwoofer	SB-WNC9 GC

System	SC-NC9 GN
Music Center	SF-NC9 GN
Main Unit	SA-NC9 GN
Front Speakers	SB-PF9 GC
Subwoofer	SB-WNC9 GC

Speaker System	SB-NC9 GC
Surround Speaker	SB-PS9 GC
Center Speaker	SB-PC9 GC

For information on speaker system, please refer to the original Service Manual (Order No. MD0703042CE) for SB-WNC9GC-K, (Order No. MD0703040CE) for SB-PF9GC-K & (Order No. MD0703041CE) for SB-NC9GC-K.

Notes:

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

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1 Safety Precautions

1.1. General Guidelines

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

1.1.1. Leakage Current Cold Check

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

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

1.1.2. 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 $1.5k\Omega$, 10 watts resistor, in parallel with a $0.15\mu F$ capacitor, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is out of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

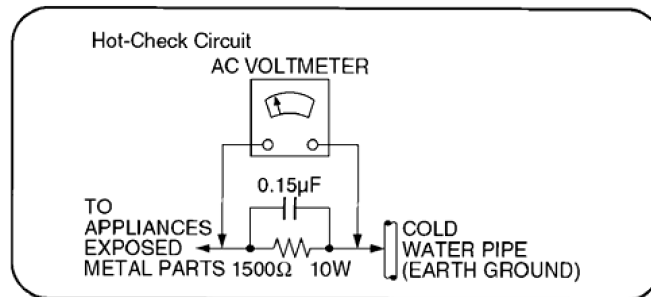


Figure 1

1.2. Safety Precaution for AC Power Supply Cord (For GS only)

Note on AC power supply cord (For Saudi Arabia and Kuwait only)

Before use

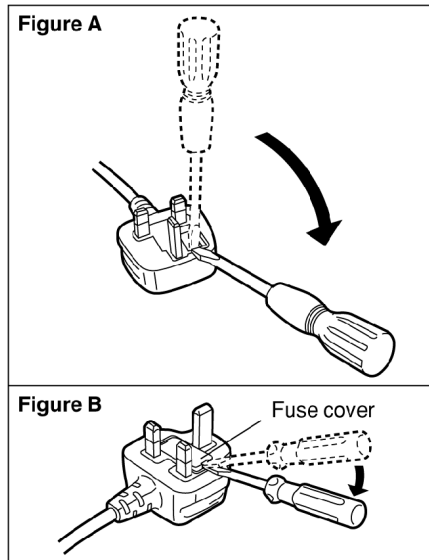
Remove the connector cover.

How to replace the fuse

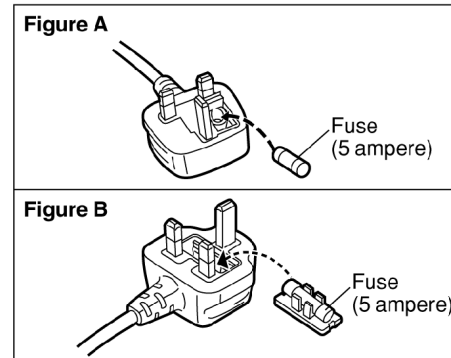
The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.

Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.



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



1.3. Before Use (For GS/GCS only)

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

Use a minus(-) screwdriver to set the voltage selector (on the rear panel) to the voltage setting for the area in which the unit will be used. (If the power supply in your area is 110V or 127V, set to the "127V" position.)

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

1.4. Before Repair and Adjustment

Disconnect AC power, discharge Power Supply Capacitors C5951 through a 10 Ω , 5W resistor to ground.

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

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

Current consumption at AC 110 ~ 127V, 50 / 60 Hz in NO SIGNAL (vol. min, at CD mode) should be ~900mA. [For GCS/GS only]

Current consumption at AC 220 ~ 240V, 50 / 60 Hz in NO SIGNAL (vol. min, at CD mode) should be ~500mA. [For GC/GCS/GS only]

Current consumption at AC 230 ~ 240V, 50 Hz in NO SIGNAL (vol. min, at CD mode) should be ~500mA. [For GN only]

1.5. Protection Circuitry

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

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

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

If this occurs, follow the procedure outlines below:

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

Note :

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

1.6. Safety Parts Information

Safety Parts List:

There are special components used in this equipment which are important for safety.

These parts are marked by $\triangle$ in the Schematic Diagrams & Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

Table 1

Reference No.	Part No.	Part Name & Description	Remarks
360	RAE2024Z-S	TRAVERSE UNIT (AFTER ALIGNMENT)	[M] $\triangle$
A2	K2CQ2CA00002	AC CORD	[M]GC/GS/GCS $\triangle$
A2	K2CJ2DA00010	AC CORD	[M]GN $\triangle$
C5251	F2A1V4710036	470 35V	[M] $\triangle$
C5252	F2A1V4710036	470 35V	[M] $\triangle$
C5351	F2A1V4710036	470 35V	[M] $\triangle$
C5352	F2A1V4710036	470 35V	[M] $\triangle$
C5451	F2A1V4710036	470 35V	[M] $\triangle$
C5452	F2A1V4710036	470 35V	[M] $\triangle$
C5512	F2A1V1020084	1000 35V	[M] $\triangle$
C5513	F2A1V1020084	1000 35V	[M] $\triangle$
C5951	ECQU2A104MLC	0.1 100V	[M] $\triangle$
D5744	B0JCAE000001	DIODE	[M] $\triangle$
F1	K5D252BLA013	2.5A FUSE	[M]GC $\triangle$
F1	K5D502BLA013	FUSE	[M]GCS $\triangle$
F2	K5D252BLA013	2.5A FUSE	[M]GCS $\triangle$
FP5920	K5G103A00019	FUSE PROTECTOR	[M] $\triangle$
FP5940	K5G103A00019	FUSE PROTECTOR	[M] $\triangle$
FP5950	K5G502A00039	FUSE PROTECTOR	[M] $\triangle$
RL5950	K6B1AEA00003	MAGNETRELAYS	[M] $\triangle$
JK5950	K2AA2B000011	JK AC INLET	[M] $\triangle$
L5950	ELF15N035AN	LINE FILTER	[M] $\triangle$
L5951	ELF15N035AN	LINE FILTER	[M] $\triangle$
T5950	G4CYAYY00141	TRANSFORMER	[M] $\triangle$
T5951	G4C2AAJ00005	BACK-UP TRANSFORMER	[M] $\triangle$
Z5950	ERZV10V511CS	ZENER	[M] $\triangle$
R5271	ERJ3GEYJ102V	1K 1/16W	[M] $\triangle$

2 Handling Precautions for Traverse Unit

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

2.1. Handling Optical Pickup

1. Do not impact on optical pickup as the unit structurally uses an extremely precise technology.
2. Short-circuit the flexible cable of optical pickup remove from the circuit board using a short-circuit pin or clip in order to prevent laser diode from electrostatic destruction (Refer to Fig. 3.1 and Fig. 3.2)
3. Do not handle flexible cables forcibly as this may cause snapping. Handle the parts carefully (Refer to Fig. 3.1)
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. 3.1)

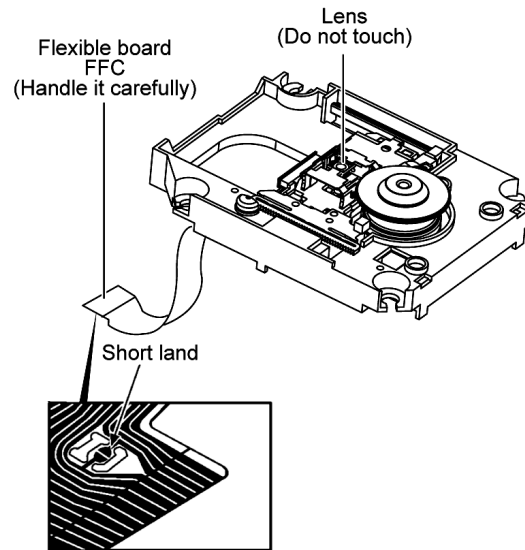


Fig. 3.1

2.2. Replacing Precautions for Optical Pickup Unit

CD/DVD Optical Pickup

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

2.3. Grounding for Preventing Electrostatic Destruction

1. Human body grounding
Use the anti-static wrist strap to discharge the static electricity accumulated in your body. (Refer to Fig. 3.2)
2. Work place grounding
Place a conductive material (conductive sheet) or ironboard where optical pickup is placed. (Refer to Fig. 3.2)

Note :

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

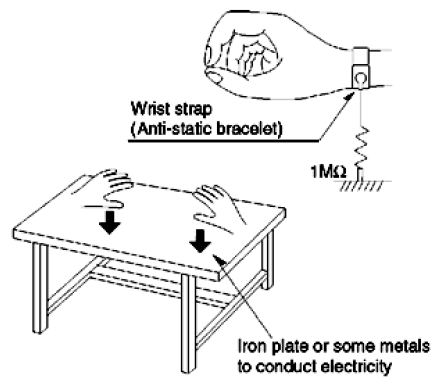


Fig. 3.2

3 Precaution of Laser Diode

Caution :

This product utilizes a laser diode with the unit turned "ON", invisible laser radiation is emitted from the pick up lens.

Wavelength : 785 nm(CD)/662 nm(DVD)

Maximum output radiation power from pick up : 100 μ W/VDE

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

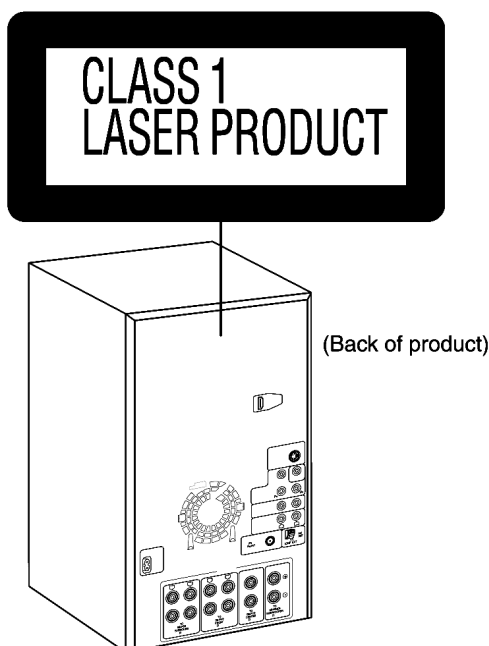
1. Do not disassemble the optical pick up unit, since radiation from exposed laser diode is dangerous.
2. Do not adjust the variable resistor on the pick up unit. It was already adjusted.
3. Do not look at the focus lens using optical instruments.
4. Recommend not to look at pick up lens for a long time.

CAUTION!

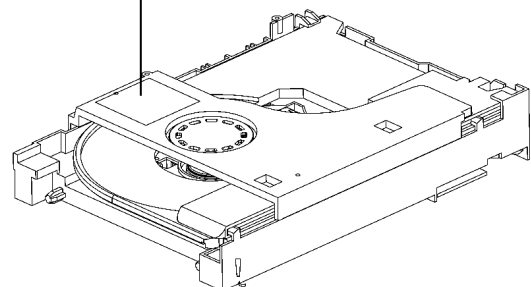
THIS PRODUCT UTILIZES A LASER.

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

n Use of Caution Labels



CAUTION	- LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM.	FDA 21 CFR / Class II
CAUTION	- CLASS 1M VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1 +A2/ Class 1M	
WARNING	- KLASS 1M SYNULIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRÄKTA EJ STRÅLEN DIREKT GENOM OPTISKT INSTRUMENT.	
FORSIGTIG	- SYNLIG OG USYNLIG LASERSTRÅLING KLASS 1M. NÄR LÅGET ER ÅBENT, UNDGÅ AT SE LIGE PÅ MED OPTISKE INSTRUMENTER.	
VARO!	- AVATTAESSA OLET ALTIINNA LUOKAN 1M NÄKYVÄÄ JA NÄKYMÄTÖNTÄ LASERSÄTELYÄ. ÄLÄ KATSO OPTISELLA LAITTEELLA SUORAAN SÄTEESEEN.	
VORSICHT	- SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG KLASSE 1M, WENN ABDECKUNG GEÖFFNET. NICHT DIREKT MIT OPTISCHEN INSTRUMENTEN BETRACHTEN.	
ATTENTION	- RAYONNEMENT LASER VISIBLE ET INVISIBLE, CLASSE 1M, EN CAS D'OUVERTURE. NE PAS REGARDER DIRECTEMENT À L'AIDE D'INSTRUMENTS OPTIQUES.	
注意	- ここを開くと可視及び不可視レーザー光が出ます。 ビームを見たり、触れたりしないでください。	
注意	- 打开时有可见及不可见激光辐射。避免光束照射。	GB7241.1-2001GB 美 RQJXS0075



4 About Lead Free Solder (PbF)

4.1. Service caution based on legal restrictions

4.1.1. General description about Lead Free Solder (PbF)

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

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

Definition of PCB Lead Free Solder being used

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

PbF

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

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

Recommended Lead Free Solder (Service Parts Route.)

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

Note

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

5 Accessories



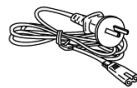
Remote control



AC power
supply cord
(For GC/GCS
only)



AC power
supply cord (For
GS only)



AC power
supply cord
(For GN only)



FM indoor
antenna



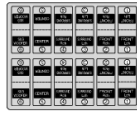
AM loop
antenna



Video cable



Speaker cables



Speaker cable
sticker



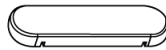
Metal brackets (x
6)



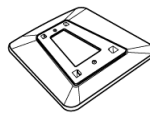
Short
screws (x
12)



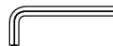
Long
screws (x
4)



Lock covers (x 6)



Base stands (x
2)

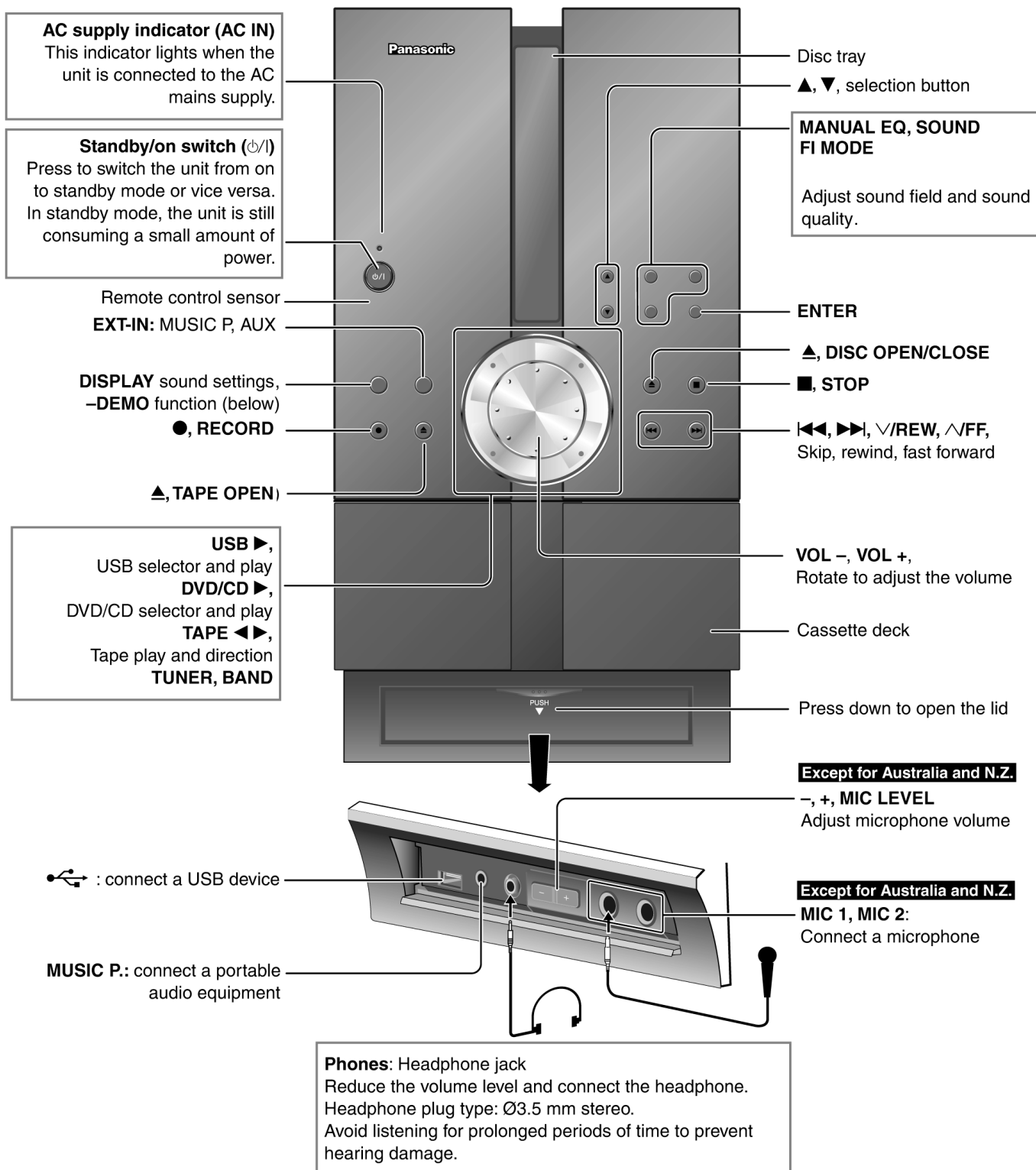


Allen Key

6 Operation Procedures

6.1. Main Unit Key Buttons Operations

Main unit



■ Demo function



Press and hold.

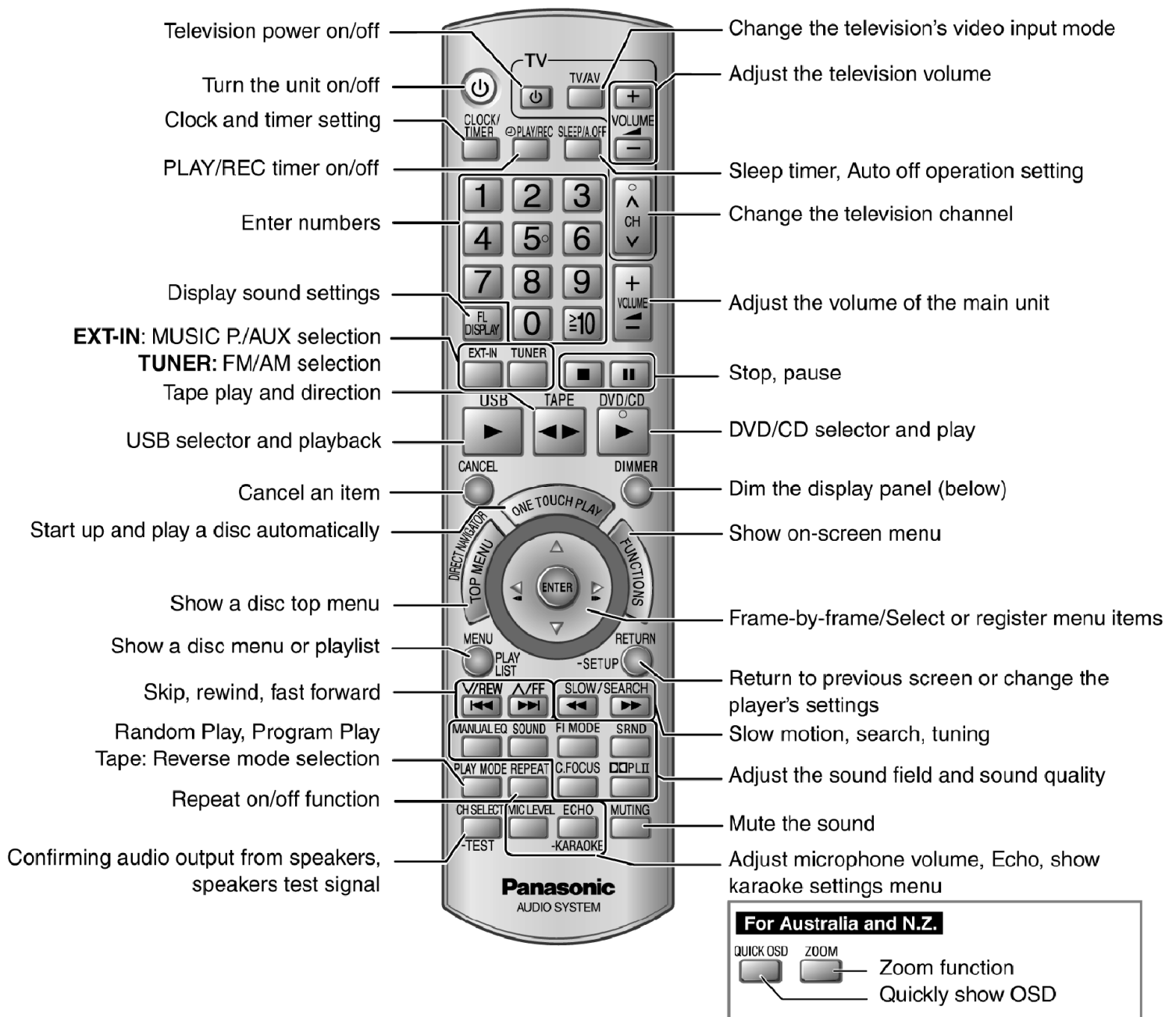
When the unit is first plugged in, a demonstration of its functions may be shown on the display. If the demo setting is off, you can see a demonstration by turning on the demo.

The display changes each time the button is held down.

DEMO ON ↔ DEMO OFF

You can reduce the power consumed in standby mode by turning the demonstration off.

6.2. Remote Control Key Buttons Operations



DIMMER



■ Dimming the display

To dim the display panel.

Every time you press the button:

On ↔ Off

MUTING



■ Muting the volume

To mute the sound.

- To cancel, press the button again or adjust the volume.
- Muting is canceled when you switch the unit to standby.

6.3. Disc Information

6.3.1. Disc Playability

■ Commercial discs

Disc	Logo	Indicated in these instructions by	Remarks
DVD-Video		DVD-V	High quality movie and music discs.
Video CD		VCD	Music discs with video. Including SVCD (Conforming to IEC62107).
CD		CD	Music discs

■ Recorded discs (○: Playable, X: Not playable)

Disc	Logo	Recorded on a DVD video recorder, etc.		Recorded on a personal computer, etc.					Finalizing ^{#8}
		DVD-VR ^{#2}	DVD-V ^{#4}	WMA	MP3	JPEG	MPEG4	DivX ^{#7}	
DVD-RAM		○	—	X	○	○	○ ^{#6}	○	Not necessary
DVD-R/RW		○	○	X	○	○	○	○	Necessary
DVD-R DL		○ ^{#3}	(○) ^{#5}	X	X	X	X	X	Necessary
+R/+RW	—	X	(○) ^{#5}	X	X	X	X	X	Necessary
+R DL	—	X	(○) ^{#5}	X	X	X	X	X	Necessary
CD-R/RW ^{#1}	—	—	—	○	○	○	○	○	Necessary ^{#9}

- It may not be possible to play all the above-mentioned discs in some cases due to the type of disc, the condition of the recording, the recording method, or how the files were created.

^{#1} This unit can play CD-R/RW recorded with CD-DA or Video CD format.

WMA MP3 JPEG This unit also plays HighMAT discs.

^{#2} Recorded with devices using Version 1.1 of the Video Recording Format (a unified video recording standard), such as DVD video recorders, DVD video cameras, personal computers, etc.

^{#3} Discs recorded on DVD video recorders or DVD video cameras using Version 1.2 of the Video Recording Format (a unified video recording standard).

^{#4} Discs recorded on DVD video recorders or DVD video cameras using DVD-Video Format.

^{#5} Recorded using a format different from DVD-Video Format, therefore, some functions cannot be used.

^{#6} Recorded with the Panasonic SD multi cameras or DVD video recorders [conforming to SD VIDEO specifications (ASF standard)/MPEG4 (Simple Profile) video system/G.726 audio system].

^{#7} Functions added with DivX Ultra are not supported.

^{#8} A process that allows play on compatible equipment. To play a disc that is displayed as “Necessary” on this unit, the disc must first be finalized on the device it was recorded on.

^{#9} Closing the session will also work.

■ Discs that cannot be played

DVD-RW version 1.0, DVD-Audio, DVD-ROM, CD-ROM, CDV, CD-G, SACD, Photo CD, DVD-RAM that cannot be removed from their cartridges, 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.

Note about using a DualDisc

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

■ Video systems

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

6.3.2. To Play MP3/ WMA and still Pictures (JPEG)

Tips for making data discs

- When there are more than 8 groups, the eighth group onwards will be displayed on one vertical line in the menu screen.
- There may be differences in the display order on the menu screen and computer screen.
- This unit cannot play files recorded using packet write.

DVD-RAM

- Discs must conform to UDF 2.0.

DVD-R/RW

- Discs must conform to UDF bridge (UDF 1.02/ISO9660).
- This unit does not support multi-session. Only the default session is played.

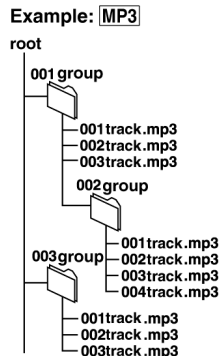
CD-R/RW

- Discs must conform to ISO9660 level 1 or 2 (except for extended formats).
- This unit supports multi-session but if there are many sessions it takes more time for play to start. Keep the number of sessions to a minimum to avoid this.

Naming folders and files

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

At the time of recording, prefix folder and file names. This should be with numbers that have an equal number of digits, and should be done in the order you want to play them (this may not work at times). Files must have the extension (➡ below).



WMA (Extension: ".WMA" or ".wma")

- Compatible compression rate: between 48 kbps and 320 kbps
- You cannot play WMA files that are copy-protected.
- This unit does not support Multiple Bit Rate (MBR).

MP3 (Extension: ".MP3" or ".mp3")

- Compatible compression rate: between 32 kbps and 320 kbps
- This unit does not support ID3 tags.
- Compatible sampling rates:
 - DVD-RAM, DVD-R/RW: 11.02, 12, 22.05, 24, 44.1 and 48 kHz
 - CD-R/RW: 8, 11.02, 12, 16, 22.05, 24, 32, 44.1 and 48 kHz

JPEG (Extension: ".JPG", ".jpg", ".JPEG" or ".jpeg")

- JPEG files taken on a digital camera that conform to DCF Standard (Design rule for Camera File system) Version 1.0 are displayed. Files that have been altered, edited or saved with computer picture editing software may not be displayed.
- This unit cannot display moving pictures, MOTION JPEG and other such formats, and still pictures other than JPEG (e.g. TIFF), or play pictures with attached audio.

MPEG4 (Extension: ".ASF" or ".asf")

- You can play MPEG4 data [conforming to SD VIDEO specifications (ASF standard)/MPEG4 (Simple Profile) video system/G.726 audio system] recorded with Panasonic SD multi cameras or DVD video recorders with this unit.
- The recording date may differ from that of the actual date.

DivX (Extension: ".DIVX", ".divx", ".AVI" or ".avi")

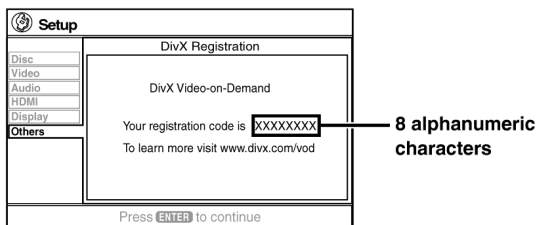
- You can play all versions of DivX® video (including DivX®6) [DivX video system/MP3, Dolby Digital or MPEG audio system] with standard playback of DivX® media files. Functions added with DivX Ultra are not supported.
- GMC (Global Motion Compensation) is not supported.
- DivX files greater than 2 GB or have no index may not be played properly on this unit.
- This unit supports all resolutions up to maximum of 720 x 480 (NTSC)/720 x 576 (PAL).
- You can select up to 8 types of audio and subtitles on this unit.

6.4. DivX VOD Content

DivX Video-on-Demand (VOD) content is encrypted for copyright protection. In order to play DivX VOD content on this unit, you first need to register the unit.

Follow the online instructions for purchasing DivX VOD content to enter the unit's registration code and register the unit. For more information about DivX VOD, visit www.divx.com/vod.

Display the unit's registration code



- We recommend that you make a note of this code for future reference.
- After playing DivX VOD content for the first time, another registration code is then displayed in "DivX Registration". Do not use this registration code to purchase DivX VOD content. If you use this code to purchase DivX VOD content, and then play the content on this unit, you will no longer be able to play any content that you purchased using the previous code.
- If you purchase DivX VOD content using a registration code different from this unit's code, you will not be able to play this content. ("Authorization Error" is displayed.)

Regarding DivX content that can only be played a set number of times

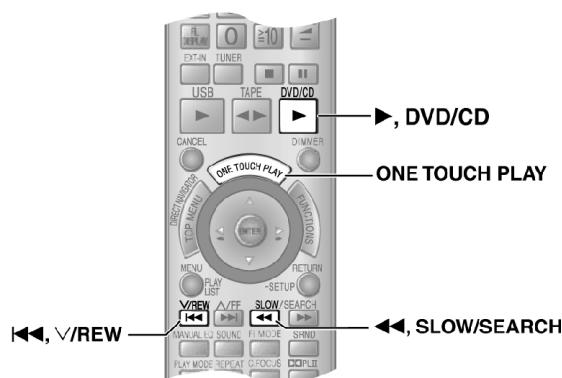
- Some DivX VOD content can only be played a set number of times. When you play this content, the remaining number of plays is displayed. You cannot play this content when the number of remaining plays is zero. ("Rented Movie Expired" or "Rental Expired" is displayed.)

When playing this content

- The number of remaining plays is reduced by one if
 - you turn off the unit or press [–SETUP].
 - you press [■]. (Press [||] to pause play.)
 - you press [◀, ▶] or [◀◀, ▶▶] etc. and arrive at another content or the start of the content being played.
- Resume function does not work.

7 New Features

7.1. Using the VIERA Link “HDAVI Control™”



What is VIERA Link “HDAVI Control”?

VIERA Link “HDAVI Control” is a convenient function that offers linked operations of this unit, and a Panasonic television (VIERA) under “HDAVI Control”. You can use this function by connecting the equipment with the HDMI cable.

See the operating instructions for connected equipment for operational details.

This unit supports “HDAVI Control 2” function.

The TV with “HDAVI Control 2” function enables the following operation:

VIERA Link Control only with TV's remote control (for “HDAVI Control 2”) (➡ right)

Preparation

- Confirm that the HDMI connection has been made.
- Set “VIERA Link” to “On”.
- To complete and activate the connection correctly, turn on all VIERA Link “HDAVI Control” compatible equipment and set the television to the corresponding HDMI input mode for the stereo system.

Whenever the connection or settings are changed, reconfirm the points above.

One Touch Play

You can turn on the stereo system and television, and start playing the disc in the play position with a single press of a button.

Press [ONE TOUCH PLAY].

Stereo system speakers will be automatically activated (➡ right).

- This function also works if you press [▶, DVD/CD] on the stereo system remote control during stereo system standby mode.

Note

- Playback may not be immediately displayed on the television. If you miss the beginning portion of playback, press [◀◀] or [◀◀] to go back to where playback started.

Auto input switching

- When you switch the television input to:
 - TV tuner mode, the stereo system will automatically switch to “AUX”.
 - HDMI input mode for the stereo system, the stereo system will automatically switch to “DVD/CD” if it is “AUX” mode.
- When you start disc play, the television will automatically switch to the HDMI input mode for the stereo system.

- While recording, these functions are not available:
 - One Touch Play, Auto input switching, Speaker control, Power off link, VIERA Link Control only with TV's remote control (for “HDAVI Control 2”).

Speaker control

You can select whether audio is output from the stereo system or the television speakers by using the television menu settings. For details, refer to the operating instructions of your television.

Home Cinema

Stereo system speakers are active.

- When the stereo system is in standby mode, changing the television speakers to stereo system speakers in the television menu will automatically turn the stereo system on and select “AUX” as the source.
- The television speakers are automatically muted.
- You can control the volume setting using the volume or mute button on the TV's remote control. (The volume level is displayed on the main unit's FL display.)
- To cancel muting, you can also use the stereo system remote control
- If you turn off the stereo system, television speakers will be automatically activated.

TV

Television speakers are active.

- The volume of the stereo system is set to “0”.
 - This function works only when “DVD/CD”, “USB” or “AUX” is selected as the source on the stereo system.
- Audio output is 2-channel audio.

Power off link

When the television is turned off, the stereo system goes into standby mode automatically.

- This function works only when “DVD/CD”, “USB” or “AUX” is selected as the source on the stereo system.
- When the television is turned on, the stereo system does not turn on automatically. (Power on link is not available.)

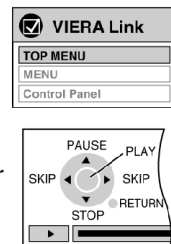
Note

Only the stereo system turns off when you press [⏻] for shutting it down. Other connected equipment compatible with VIERA Link “HDAVI Control” stays on.

VIERA Link Control only with TV's remote control (for “HDAVI Control 2”)

You can control the disc menus of the stereo system with the TV's remote control when using the “DVD/CD” or “USB” source. When operating the TV's remote control, refer to the below illustration for operation buttons.

- 1 Select the stereo system operation menu by using the television menu settings. (For details, refer to the operating instructions of your television.)
 - The stereo system will automatically switch to “DVD/CD” if it is in “AUX” mode.
- 2 Select the desired item.
 - “TOP MENU”: Shows a disc top menu or program list.
 - “MENU”: Shows a disc menu or playlist.
 - “Control Panel”: The basic operations for discs are available.



Note

- Depending on the menu, some button operations cannot be performed from the TV's remote control.
- “Control Panel” can be selected directly by using a button on the TV's remote control (e.g. [OPTION]).

8 About HighMAT

8.1. What's HighMAT?

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

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

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

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

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



HighMAT Audio

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



HighMAT Audio and Image

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



HighMAT Audio, Image and Video

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

※MPEG-4: support is optional

8.2. Why take advantage of HighMAT?

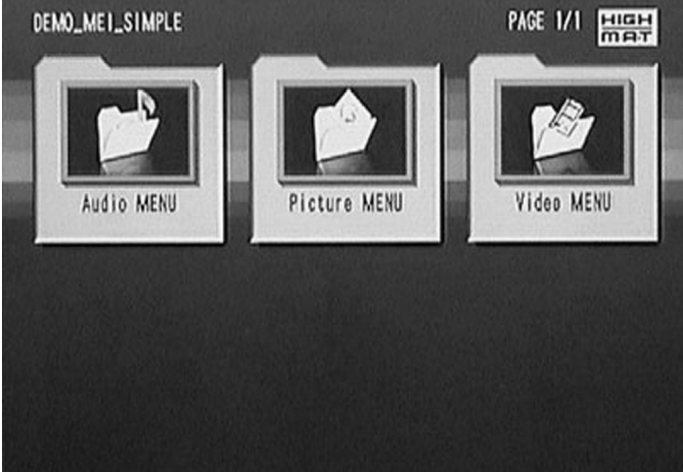
A Problem Defined: Today, when consumers create their own digital audio, video or photo collections on CD-R or other physical formats, there are numerous, inconsistent ways that devices read the data. For the consumer, the playback experience can be confusing:

- Many consumer electronics devices do not support playlists or advanced playback options such as the ability to access content by date or genre.
- The user interface for accessing the media and any associated information (including playlists, folders, music metadata and more) may vary between different devices.
- Large collections of music, videos or photos may take several minutes for a CD or DVD player to read.
- Discs may be unplayable because the compressed media format is not supported by the playback device or the disc layout is incompatible.

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

8.3. Benefits of HighMAT?

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

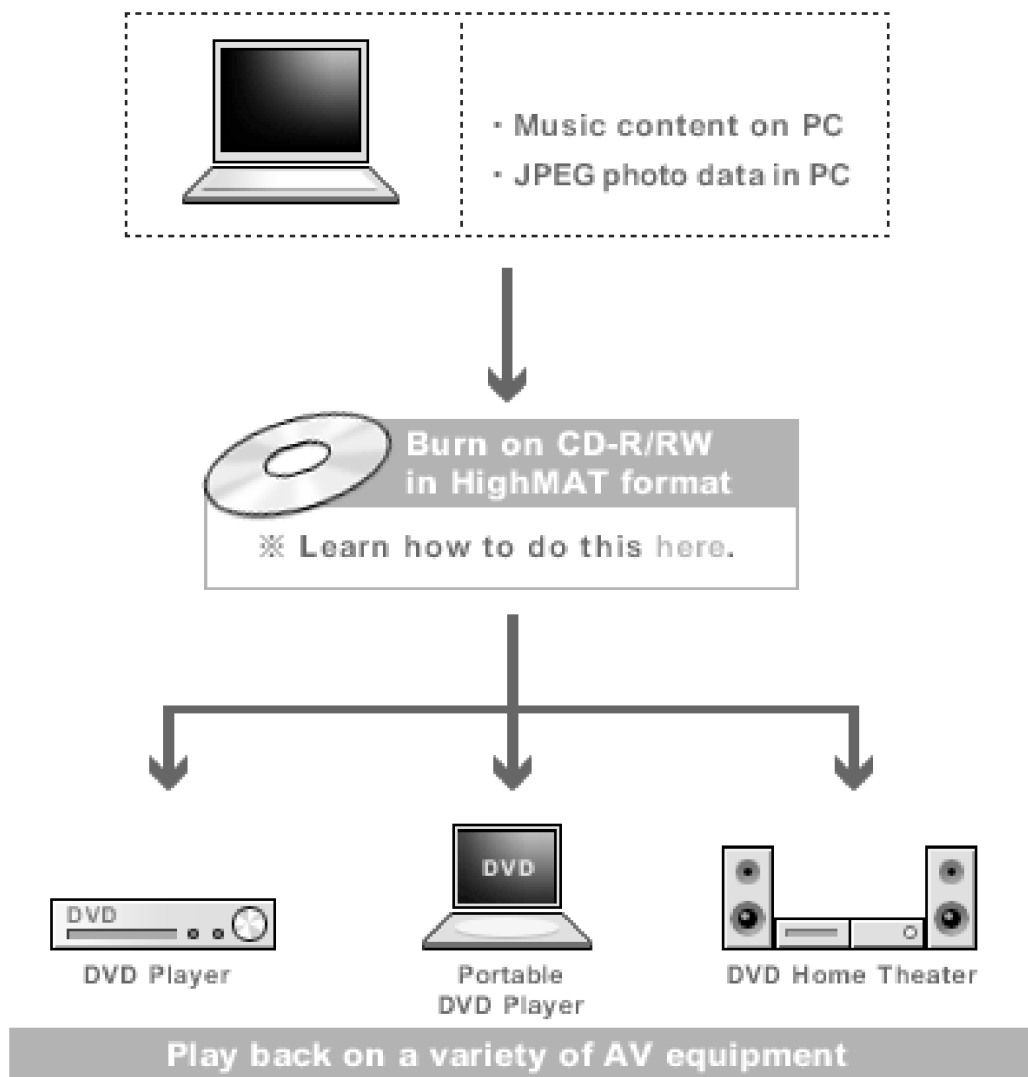
Conventional	HighMAT
Even though DVD player is CD-R/RW compatible, the inconsistent ways that various DVD players can read the music or photos files often leads to a confusing and inconsistent playback experience. 	HighMAT compatible products play content back with consistent interface. This includes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

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



Easy navigation to access disc contents

3 HighMAT CDs can also work on other players.



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

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

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

9 Self diagnosis and special mode setting

This unit is equipped with functions for checking and inspecting namely: Self-Diagnostic and Test Mode.

9.1. Service Mode Summary Table

The service modes can be activated by pressing various button combination on the player and remote control unit.

Below is the summary of major checking:

Player buttons	Remote control unit buttons	Application	Note
[■, STOP]	0	Error code check.	(Refer to the section, "9.2.1 Service Mode Table 1" for more information).
	5	Jitter checking.	
	FUNCTIONS	DVD laser drive current check.	
	PAUSE	Initial setting of laser drive current	
	1	ADSC internal RAM data check.	(Refer to the section, "9.2.2 Service Mode Table 2" for more information).
	3	CD laser drive current check.	
	7	Micro-processor firmware version check.	
	6	Region display and mode.	(Refer to the section, "9.2.3 Service Mode Table 3" for more information).
	8	DVD (HDMI) module firmware version check.	
	≥ 10	Initialization of the player (factory setting is restored.) Used after replacement of micro-computer (DV 5.0 LSI IC (IC8611), FLASH ROM IC, EEPROM and HDMI module.	
	MENU	Communication error display.	(Refer to the section, "10.2.4 Service Mode Table 4" for more information).
	TOP MENU	ECC error check.	
	EQ	CPPM/CRM keys check.	
	ENTER	DVD (HDMI) Module P.C.B. reset.	
		Timer 1 check.	
		Timer 1 reset. (While in Timer 1 check mode)	
		Timer 2 check.	
		Timer 2 reset. (While in Timer 2 check mode)	

Note:

An error code will be cancelled if a power supply is turned OFF.

*1: CPPM is the copy guard function beforehand written in the disc for protection of copyrights.

*2: CEC is the consumer electronic control used for high-level user control HDMI-connected devices.

*3: HDCP is the specification developed to control digital audio & video contents transmission for DVI or HDMI connections.

9.2. Service Mode Table (Main Unit)

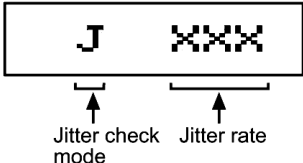
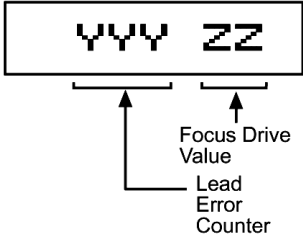
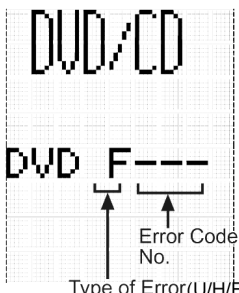
By pressing various button combinations on the main unit and remote control unit, you can activate the various service modes for checking.

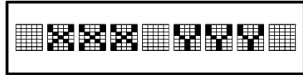
Special Note:

Due to the limitations of the no. characters that can be shown on FL Display, the "FL Display" button on the remote control unit can be used to show the two display pages. (Display 1 / Display 2).

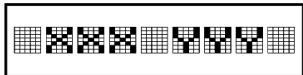
- Refer to Section 6.2 for the section on "Remote Control Key Buttons Operations".

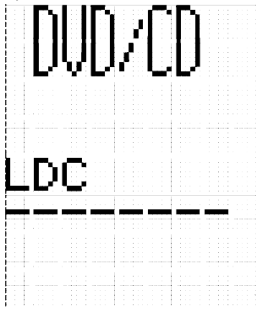
9.2.1. Service Mode Table 1

Item		FL Display	Key Operation
Mode Name	Description		Front Key
Jitter check	Jitter check. Jitter rate is measured and displayed. Measurement is repeatedly done in the cycle of one second. Read error counter starts from zero upon mode setting. When target block data failed to be read out, the counter advances by one increment. When the failure is caused by minor error, it may be corrected when retired to enable successful reading. In this case, the counter advances by one. When the error persists even after retry, the counter may jump by two or more. FL Display sequence Display 1 → 2	(Display 1)  Jitter check mode Jitter rate Jitter rate is shown in decimal notation to one place of decimal. Focus drive value is shown in hexadecimal notation. (Display 2)  Focus Drive Value Lead Error Counter	In STOP (no disc) mode, press [■, STOP] button on the main unit, and [5] button on the remote control unit. Press [⏻] button to exit.
Error code check	Error code check. The latest error code stored in the EEPROM IC is displayed. Note: Refer to "Section 9.3 DVD Self Diagnostic Function Error Code" for more details information on the error codes.	 Error Code No. Type of Error(U/H/F) Error code (play_err) is expressed in the following convention. Error code = 0 x DAXX is expressed: → DVDnn U12 Error code = 0 x DBXX is expressed: → DVDnn H12 Error code = 0 x DXXX is expressed: → DVDnn F123 Error code = 0 x 0000 is expressed: → DVDnn F--- * "xx" denotes the error code	In STOP (no disc) mode, press [■, STOP] button on the main unit, and [0] button on the remote control unit. *With pointing of cursor up and down on display. Cancelled automatically 5 seconds later. To exit, press [⏻] button on main unit or remote control.

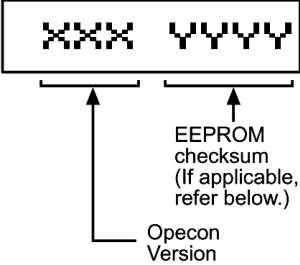
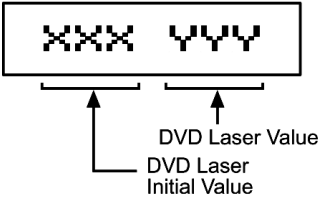
Item		FL Display	Key Operation
Mode Name	Description		Front Key
Initial setting of laser drive current	Initial setting of laser drive current. Initial current value for the DVD laser and CD laser is separately saved in the EEPROM IC. FL Display sequence Display 1 → 2	1. (Display 1)  Laser current measurement mode The measurement value in decimal notation 2. (Display 2)  Laser current value DVD Laser Initial Value The value denotes the current in decimal notation. The above example shows the initial current XXXmA and YYYmA for DVD laser and CD laser respectively when the laser is switched on.	In STOP (no disc) mode, press [ , STOP] button on the main unit, and [ , PAUSE] button on the remote control unit. Cancelled automatically 5 seconds later.

9.2.2. Service Mode Table 2

Item		FL Display	Key Operation
Mode Name	Description		Front Key
DVD laser drive current measurement	DVD laser drive current measurement. DVD laser drive current is measured and the result is displayed together with the initial value stored in the EEPROM IC. After the measurement, DVD laser emission is kept on. It is turned off when POWER key is switched off. FL Display sequence Display 1 → 2	1. (Display 1)  DVD laser current measurement mode 2. (Display 2)  DVD current measurements (mA) (DEC) CD current measurements (mA) (DEC) The value denotes the current in decimal notation. The above example shows the initial current is XXXmA & YYYmA for the measured value.	In STOP (no disc) mode, press [ , STOP] button on the main unit, and [FUNCTIONS] button on the remote control unit. Cancelled automatically 5 seconds later.
ADSC internal RAM data check	ADSC internal RAM data check. ADSC internal RAM data is read out and displayed.	 RAM data for specified address Address The value is shown in hexadecimal notation. The above example shows the data in ADSC address FBOh is XXXXh.	In STOP (no disc) mode, press [ , STOP] button on the main unit, and [1] button on the remote control unit. To exit, press [] button.

Item		FL Display	Key Operation
Mode Name	Description		Front Key
CD laser drive current measurement	CD laser drive current measurement. CD laser drive current is measured and the result is displayed together with the initial value stored in the EEPROM IC. After the measurement, CD laser emission is kept on. It is turned off when POWER key is switched off. FL Display sequence Display 1 → 2	(Display 1)  The value denotes the current in decimal notation. (Display 2)  The above example shows the initial current is 0XXmA and the measured value is 0YYmA.	In STOP (no disc) mode, press [■. STOP] button on the main unit, and [3] button on the remote control unit. Cancelled automatically 5 seconds later.

9.2.3. Service Mode Table 3

Item		FL Display	Key Operation
Mode Name	Description		Front Key
Micro-processor firmware version display & EEPROM checksum display.	Micro-processor firmware version display & EEPROM checksum display. EEPROM checksum is only available due to existence of EEPROM IC. FL Display sequence Display 1 → 2	(Display 1)  (Display 2)  (Condition 1)  If the version of the EEPROM does not match, [NG] is displayed. (Condition 2)  (a) If there is NO EEPROM header string OR (b) If there is no EEPROM (no data is received by micro-processor), [NO] is displayed. (Condition 3)  If the EEPROM version matches, checksum [YYYY] is displayed. (Display 3) 	In STOP (no disc) mode, press [■, STOP] button on the main unit, and [7] button on the remote control unit. Cancelled automatically 5 seconds later.
Initialization	Initialization. User settings are cancelled and player is initialized to factory setting. It is necessary when after replacement of micro-processor (DV5.0 LSI) IC, Flash ROM IC (IC8651), EEPROM IC (IC8611) & HDMI Module P.C.B. .		In STOP (no disc) mode, press [■, STOP] button on the main unit, and [≥10] button on the remote control unit. Cancelled automatically 5 seconds later.

Item		FL Display	Key Operation
Mode Name	Description		Front Key
Region display	Region code display, TV Broadcasting system & the model no. information Note: Refer to figure 2 for video design information	Model No. information N: NTSC / 6: PAL60 N: no PAL / P: PAL Region No.: 0 - 8	In STOP (no disc) mode, press [■, STOP] button on the main unit, and [6] button on the remote control unit. Cancelled automatically 5 seconds later.

Model Series	Country Region	Region Code	TV Broadcasting System	Product		
				Signal System (Default)	Region Display (Default)	OSD Menu Language
P, PC, PX	USA, Canada, PX	1	NTSC	NTSC (*A)	1PN	English, Spanish, Canadian French
(S)	Japan	2	NTSC	NTSC (*A)	2PN	Japanese, English
E	Europe	2	PAL	PAL (*C)	2P6	English, French, German, Spanish, Polish, Russian, Czech, Hungarian
EB, EG	Europe	2	PAL	PAL (*C)	2P6	English, French, German, Italian, Spanish, Polish, Swedish, Dutch
GC, GS	Middle East	2	PAL	PAL (*C)	2P6	English, French, German, Spanish, Polish, Russian, Czech, Hungarian
GCS, GD, GT, GCT	South East Asia, Korea, Taiwan	3	PAL NTSC	NTSC (*B)	3PN	English, Traditional Chinese
GN	New Zealand, Australia	4	PAL	NTSC (*C)	4P6	English, French, German, Italian, Spanish, Polish, Swedish, Dutch
PL, GCP, LB	Central/South/Latin America	4	NTSC	NTSC (*D)	4PN	English, Spanish, French, Brazilian Portuguese
EE	CIS	5	SECAM	PAL (*C)	5P6	English, French, German, Spanish, Polish, Russian, Czech, Hungarian
GK	China	6	PAL	NTSC (*B)	6PN	English, Simplified Chinese

NTSC (*A)

Source	Output
Screen Saver	NTSC
NTSC disc	NTSC
PAL disc	PAL (DVD-V)
	NTSC (DVD-A/VCD)

NTSC (*B)

Source	Output
Screen Save	NTSC
NTSC disc	NTSC (default)
	PAL60
PAL disc	PAL60

NTSC (*C)

Source	Output
Screen Save	PAL
NTSC disc	PAL60 (default)
	NTSC
PAL disc	PAL

NTSC (*D)

Source	Output
Screen Save	NTSC
NTSC disc	NTSC
PAL disc	NTSC

Explanation of Display

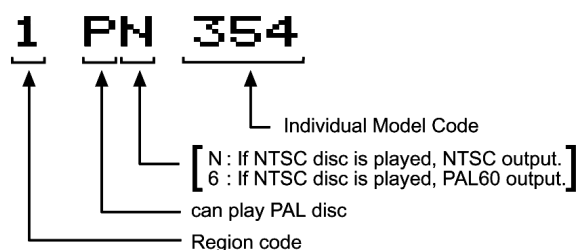
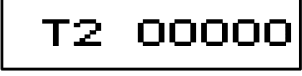


Figure 2 Video Design Information

9.2.4. Service Mode Table 4

Item		FL Display	Key Operation
Mode Name	Description		Front Key
DVD (HDMI) module firmware version display	DVD (HDMI) module firmware version is displayed on the FL Display. The firmware version can be updated using recovery disc. Note: It is necessary to check for firmware version before carrying out the version up using the disc	Region No.: 0 - 8	In STOP (no disc) mode, press [■, STOP] button on the main unit, and [8] button on the remote control unit. Cancelled automatically 5 seconds later.
Communication error display	Displays frequency of communication errors between system control IC and mechanism control IC in the DVD (HDMI) Module P.C.B.		In STOP (no disc) mode, press [■, STOP] button on the main unit, and [MENU] button on the remote control unit. Cancelled automatically 5 seconds later.
ECC error check	ECC refers to Error correction code. It describes the error correction code that was carry out for the decoding of audio & video. FL Display sequence Display 1 → 2	(Display 1) (Display 2)	In STOP (no disc) mode, press [■, STOP] button on the main unit, and [TOP MENU] button on the remote control unit. Press [⏻] button to exit. Press [FL Display] button on remote control unit for next page (FL Display).
CPPM/CRM Keys Check	CPPM/CPRM refers to the content protection for Recordable Media & Pre-Recorded Media. It displays the existence of the keys as "1" or "0".	0-1 0 : NG 1 : OK	In STOP (no disc) mode, press [■, STOP] button on the main unit, and [EQ] button on the remote control unit. Cancelled automatically 5 seconds later.
DVD (HDMI) Module Reset	To reset DVD (HDMI) Module P.C.B. This process is used when the DVD Module or Flash ROM IC is replaced with a new one.		While in initialization mode, press and hold [■, STOP] button on the main unit, follow by [Enter] button on the remote control. Cancelled automatically 5 seconds later.

9.2.5. Service Mode Table 5

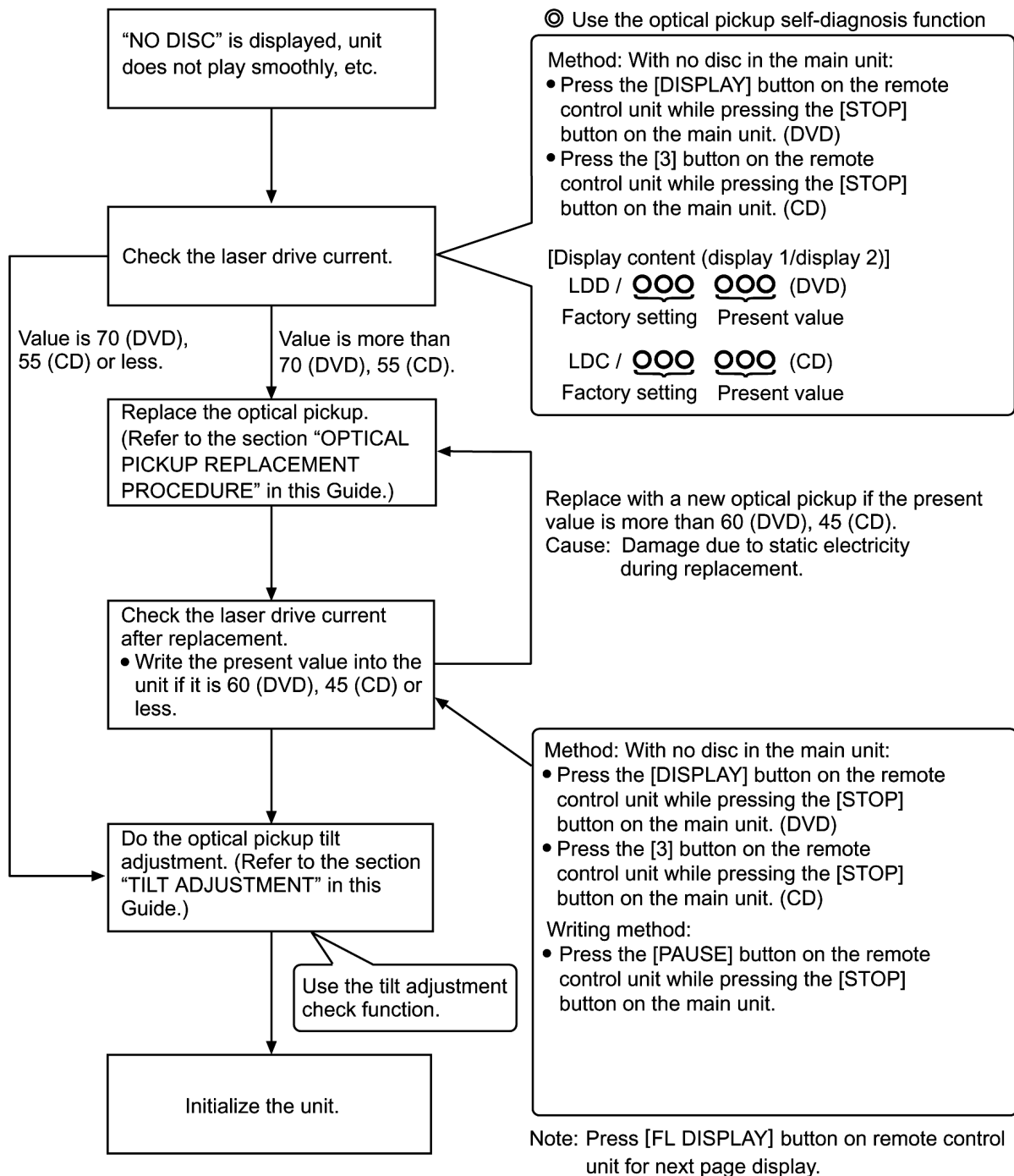
Item		FL Display	Key Operation
Mode Name	Description		Front Key
Timer 1 check	Timer 1 check. Laser operation time is measured separately for DVD laser and CD laser. FL Display sequence Display 1 → 2	(Display 1)  Shown to the above is DVD laser usage time, and to the below is CD laser usage time. Time is shown in 5 digits of decimal notation in a unit of 10 hours. "00000" will follow "99999". (DVD laser) (Display 2)  CD laser usage time Time is shown in 6 digits of decimal notation in a unit of 10 hours. "000000" will follow "99999". (CD laser)	In STOP (no disc) mode, press [■. STOP] button on the main unit, and [▲] button on the remote control unit. Cancelled automatically 5 seconds later. Press "FL Display" button for next page of FL Display.
Timer 1 reset	Timer 1 reset. Laser operation timer of both DVD laser and CD laser is reset all at once.	 Time is shown in 5 digits of decimal notation in a unit of 10 hours. It will clear to "00000" upon reset.	While display Timer 1 data, press [■. STOP] button on the main unit, and [▼] button on the remote control unit. Cancelled automatically 5 seconds later.
Timer 2 check	Timer 2 check. Spindle motor operation timer.	 Time is shown in 5 digits of decimal notation in a unit of 1 hour. "00000" will follow "99999".	In STOP (no disc) mode, press [■. STOP] button on the main unit, and [►] button on the remote control unit. Cancelled automatically 5 seconds later.
Timer 2 reset	Timer 2 reset. Spindle motor operation timer.	 Time is shown in 5 digits of decimal notation in a unit of 1 hour. It will be cleared to "00000" upon activating this.	While display Timer 2 data, press [■. STOP] button on the main unit, and [◀] button on the remote control unit. Cancelled automatically 5 seconds later.

9.2.6. Optical Pick-up Self-Diagnosis

The optical pickup self-diagnosis function and tilt adjustment check function have been included in this unit. When repairing, use the following procedure for effective self-diagnosis and tilt adjustment. Be sure to use the self-diagnosis function before replacing the optical pickup when "NO DISC" is displayed. As a guideline, you should replace the optical pickup when the value of the laser drive current is more than 55.

Note:

Press the power button to turn on the power, and check the value within three minutes before the unit warms up. (Otherwise, the result will be incorrect.)



9.3. DVD Self Diagnostic Function - Error Code

9.3.1. Mechanism Error Code Table

Error Code	Diagnosis Contents	Description of error	Automatic FL Display	Remarks
H01	Tray loading error	The tray opening and closing is abnormal. CLOSE and OPEN of the tray cannot be carried out properly. Loading motor error, DV 5.0 LSI IC (IC8001) error.	DVD H01	Press [■ STOP] on main unit for next error. (OPEN time: OPEN → CLOSE → OPEN → H01 at CLOSE: CLOSE → OPEN → CLOSE → H01)
H02	Spindle servo error	The spindle servo/motor is abnormal. The FG pulse is abnormal. CLV servo error.	DVD H02	Press [■ STOP] on main unit for next error.

Error Code	Diagnosis Contents	Description of error	Automatic FL Display	Remarks
H03	Traverse servo error	The traverse is abnormal. (Traverse servo, DV 5.0 LSI IC (IC8001), TRV motor error.)	DVD H03	Press [■, STOP] on main unit for next error.
H04	Tracking servo error	Tracking coil NG (OPU unit abnormal), DV 5.0 LSI IC (IC8001) error.)	DVD H04	Press [■, STOP] on main unit for next error.
H05	Seek time out error	It is not possible to access the disc. TOC cannot read. Abnormal disc etc. Pickup abnormal or disc is dirty. (TRV motor error, DV 5.0 LSI IC (IC8001) error.)	DVD H05	Press [■, STOP] on main unit for next error.
H07	Driver IC thermal shut down	The spindle motor is abnormal. (short between brushes)	DVD H07	Press [■, STOP] on main unit for next error.
H15	Disc tray open detection switch failure	The disc tray cannot be opened & it closes spontaneously.	DVD H15	Press [■, STOP] on main unit for next error.
H16	Disc tray close detection switch failure	The disc tray cannot be closed & it opens spontaneously.	DVD H16	Press [■, STOP] on main unit for next error.
U11	Focus servo error	Focus coil, FE signal error.	DVD U11	Press [■, STOP] on main unit for next error. (Unfinalized DVD-R is likely to become U11.)
U15	Unfinalized DVD-R		DVD U15	
F500	DSC error	DV 5.0 LSI IC (IC8001) stops in the occurrence of servo error (startup, focus error, etc)	DVD F500	Press [■, STOP] on main unit for next error.
F506	Invalid media	Disc is flipped over, TOC unreadable, incompatible disc.	DVD F506	Press [■, STOP] on main unit for next error.
F620	OPU unit abnormality temperature	Laser protection at high temperature.	DVD F620	Press [■, STOP] on main unit for next error.
F621	OPU unit circuitry abnormal	Laser protection at circuit failure.	DVD F621	Press [■, STOP] on main unit for next error.
U701	HDMI/DVI HDCP non-compliance	It is generated for the connection with HDMI/DVI when the equipment (TV set) does not correspond to HDCP. (HDCP: Copyright protection technology. Encryption method of digital image signal.)	DVD U701	Press [■, STOP] on main unit for next error.
U702	HDMI/DVI I2C communication error	The communication error of I2C when connecting it with HDMI/DVI. For instance, when EDID information to which information on the TV set side has been described cannot be read, it is generated.	DVD U702	Press [■, STOP] on main unit for next error.

Error Code	Diagnosis Contents	Description of error	Automatic FL Display	Remarks
U703	HDMI/DVI attestation error	When attestation (HDCP) with the TV side fails when connecting it with HDMI/DVI, it is generated.	DVD U703	Press [■.STOP] on main unit for next error.
U704	HDMI/DVI SRM Riborserar	It is generated at the equipment to which the TV set is Riborced when connecting it with HDMI/DVI.	DVD U704	Press [■.STOP] on main unit for next error.
U705	HDMI/DVI SRM disc falsification check error	It is generated at the time of it is time when illegal the SRM data of the reproducing disc (verify error). When connecting it with HDMI/DVI.	DVD U705	Press [■.STOP] on main unit for next error.
F893	FLASH ROM IC data falsification error	Firmware error, DV 5.0 LSI IC (IC8651) error.	DVD F893	Press [■.STOP] on main unit for next error.
F894	EEPROM IC abnormality error	When failing in the access to EEPROM IC located in the DVD (HDMI) Module P.C.B. (IC8611)	DVD F894	Press [■.STOP] on main unit for next error.
F895	Language area abnormal	Firmware version agreement check for factory preset setting failure prevention.	DVD F895	Press [■.STOP] on main unit for next error.
F896	No existence model	Firmware version agreement check for factory preset setting failure prevention.	DVD F896	Press [■.STOP] on main unit for next error.
F897	Initialization error	Incomplete initialization after writing of new firmware (Factory preset setting failure prevention).	DVD F897	Press [■.STOP] on main unit for next error.
F898	Disagreement of hardware and software	Unsuitable combination of AV Decoder, SDRAM & FLASH ROM IC (firmware).	DVD F898	Press [■.STOP] on main unit for next error.
F899	The communication specification disagreement between micro-processor	Unsuitable combination of number of system com and panel com used. (Firmware)	DVD F899	Press [■.STOP] on main unit for next error.

9.3.2. Power Supply Error Code Table

Error Code	Diagnosis Contents	Description of error	Automatic FL Display	Remarks
F61	The abnormalities in an output or power supply circuit of POWER AMP	In normal operation, when DCDET2 goes to "L" (not during power-off condition), F61 appears on FL display and PCONT goes to "L". This is due to speaker output has DC voltage or fan is not working.	DVD F61	Press [■.STOP] on main unit for next error.
F76	Abnormality in the output voltage of stabilized power supply	In normal operation when DCDET1 is detected L (Low) for two consecutive times, F76 is displayed on FL for 2 seconds and after that PCONT will be turned to L (Low). This is due to any of the DC voltages (+9V) +7V, -7V, +5V, +5.3 etc) not available.	DVD F76	Press [■.STOP] on main unit for next error.

9.3.3. ECC Error Code Table

Error Code	Diagnosis Contents	Description of error	Automatic FL Display	Remarks
F600	Administrative information cannot be acquired by the recovery error.	It become impossible NaviPack etc. were done, and not to be able to acquire necessary information in the navigation's changing due to wound etc. of DISC, and to have done the reproduction transition.		Press [■, STOP] on main unit for next error.
F601	Irregular sector ID wad demanded.	It tried to access the position that did not exist on DISC by the recording error etc. of authoring.		Press [■, STOP] on main unit for next error.
F603	KEYDET cannot be acquired by the recovery error.	The data for decoding copyright protection (CSS) cannot be acquired due to wound etc. of DISC, and it is not possible to reproduce.		Press [■, STOP] on main unit for next error.

Note:

An error code will be cancelled if a power supply is turned OFF.

*1: CPPM is the copy guard function beforehand written in the disc for protection of copyrights.

*2: CEC is the consumer electronic control used for high-level user control HDMI-connected devices.

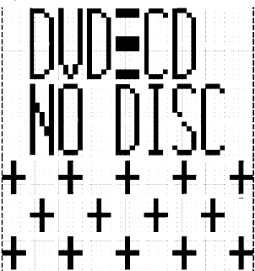
*3: HDCP is the specification developed to control digital audio & video contents transmission for DVI or HDMI connections.

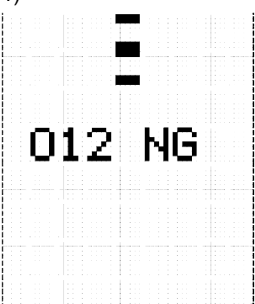
9.3.4. USB Error Code Table

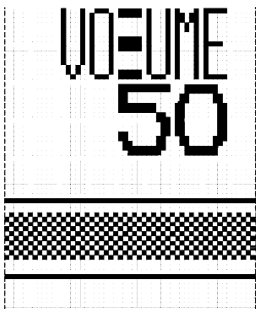
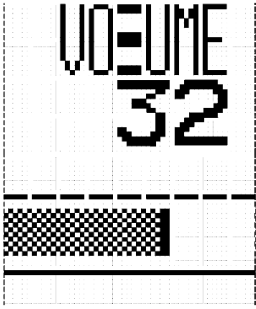
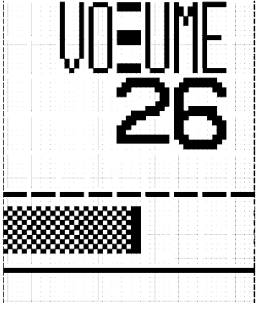
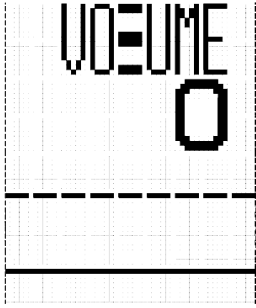
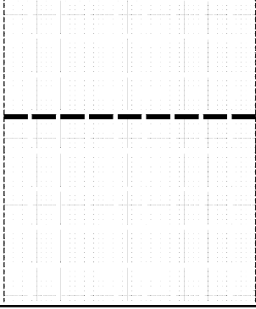
Error Code	Diagnosis Contents	Description of error	Automatic FL Display	Remarks
F650	USB device: Devices other than mass storage	Devices other than the mass storage class are connected.		Press [■, STOP] on main unit for next error. (The generation D110, it mounts.)
F651	USB device: Non-Full Speed Device	The device that the transfer rate did not correspond to Full Speed was connected.		Press [■, STOP] on main unit for next error. (The generation D110, it mounts.)
F652	USB device: Interface NG	The device in the interface (subclass) outside correspondence was connected. (Correspondence interface 001b: Reduced Block Commands (RBC) 010b: SFF-8020i. MMC-2 (ATAPI) 110b: SCSI transparent command set.		Press [■, STOP] on main unit for next error. (The generation D110, it mounts.)
F655	USB device: Overcurrent detection	The overcurrent of 500mA or more was detected in VDD USB, and the USB device driver function was intercepted. (To intercept the current.)		Press [■, STOP] on main unit for next error. (The generation D110, it mounts.)

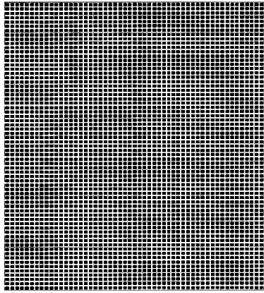
9.4. Doctor Mode

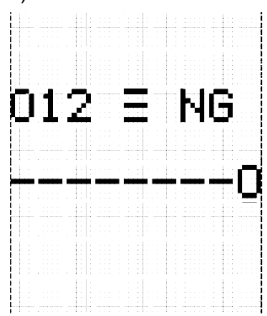
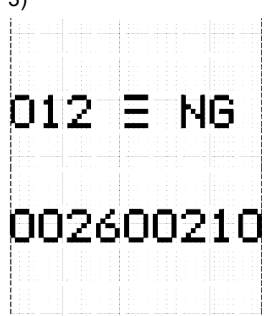
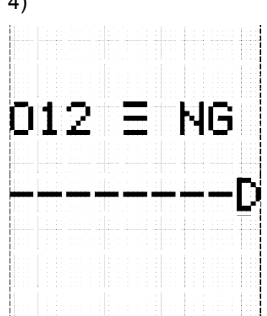
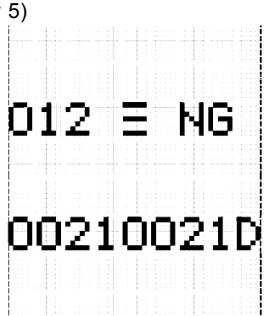
To enter into Doctor Mode, special remote control needed.

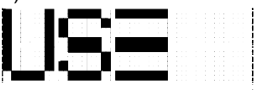
Item		FL Display	Key Operation
Mode Name	Description		Front Key
To enter into doctor mode	To enter into doctor mode for checking for various items and displaying checksum and software version.	(Display 1) 	Using special remote control [1DDF] or [1CDF] is received during power on. To exit doctor mode, press [1D00] or [] button.

Item		FL Display	Key Operation
Mode Name	Description		Front Key
Version number and EEPROM checksum display	Micro-processor firmware version display and EEPROM checksum display. EEPROM checksum is only available due to existence of EEPROM IC.	(Display 1) 	In Doctor Mode. [1DDF] or [1CDF] is received during power on. To exit doctor mode, press [1D00] or [] button.
Region display	Region code display, TV broadcasting system and the model no. information.	(Display 1) 	In Doctor Mode. [0143] is received during power on. To exit doctor mode, press [1D00] or [] button.

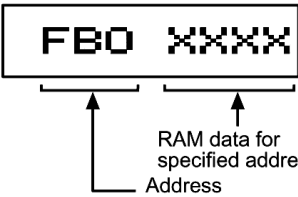
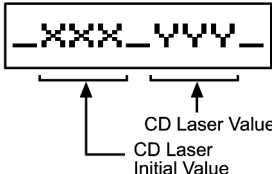
Item		FL Display	Key Operation
Mode Name	Description		Front Key
Volume setting	To forced volume setting.		In Doctor Mode. [0100] is received during power on.
			In Doctor Mode. [0113] is received during power on.
			In Doctor Mode. [0101] is received during power on.
			In Doctor Mode. [0102] is received during power on.
Cold start	Initialize backup data and start the micro-processor.		In Doctor Mode. [1DDE] is received during power on.

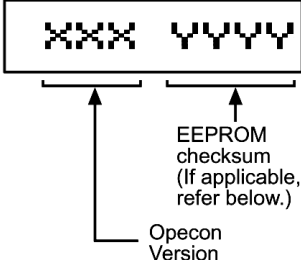
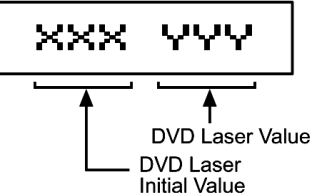
Item		FL Display	Key Operation
Mode Name	Description		Front Key
All FL display	To check the FL segments display (all segments of both FL will be light up).	 ⊕PLAY ⊕REC A.OFF HDMI SLP 92 REC <=> RDS ST MONO PRG	In Doctor Mode. [1144] is received during power on.

Item		FL Display	Key Operation
Mode Name	Description		Front Key
LDO & LDD	Laser current initial measurement and DVD laser current measurement.	(Display 1)  (Display 2)  (Display 3)  (Display 4)  (Display 5) 	In Doctor Mode. [1141] is received during power on.

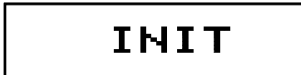
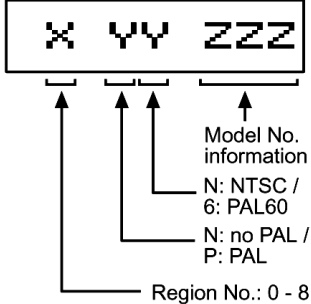
Item		FL Display	Key Operation
Mode Name	Description		Front Key
Jitter check	Jitter check. Jitter rate is measured and displayed. Measurement is repeatedly done in the cycle of one second. Read error counter starts from zero upon mode setting. When target block data failed to be read out, the counter advances by one increment. When the failure is caused by minor error, it may be corrected when retired to enable successful reading. In this case, the counter advances by one. When the error persists even after retry, the counter may jump by two or more.	(Display 1) 	In Doctor Mode. [1142] is received during power on.
OPEN/CLOSE reliability	In stop mode, press & hold [PAUSE] button with [OPEN] on unit followed by [2] on remote control unit. To exit, press [POWER] button on main unit or remote control unit.	It is a PLAY position about DISC1 --> Tray OPEN (DISC 3, 4) --> Tray CLOSE --> DISC2 TOC Read --> DOWN --> Tray OPEN (DISC 4, 5) --> Tray CLOSE --> DISC3 TOC Read --> DOWN --> Tray OPEN (DISC 5, 1) --> Tray CLOSE --> DISC4 TOC Read --> DOWN --> Tray OPEN (DISC 1, 2) --> Tray CLOSE --> DISC5 TOC Read --> DOWN --> Tray OPEN (DISC 2, 3) --> Tray CLOSE --> DISC1 TOC Read --> DOWN --> From the beginning	In Doctor Mode. [2A01] is received during power on.
USB to tape recording	USB to check recording for 5s, after recording, it will do rewind then play recording tape.	(Display 1)  (Display 2) 	In Doctor Mode. [2a07] is received during power on.

9.4.1. Service Mode Table 2

Item		FL Display	Key Operation
Mode Name	Description		Front Key
ADSC internal RAM data check	ADSC internal RAM data check. ADSC internal RAM data is read out and displayed.	 The value is shown in hexadecimal notation. The above example shows the data in ADSC address FBOh is XXXXh.	In STOP (no disc) mode, press [■ , STOP] button on the main unit, and [1] button on the remote control unit. To exit, press [⏻] button.
CD laser drive current measurement	CD laser drive current measurement. CD laser drive current is measured and the result is displayed together with the initial value stored in the EEPROM IC. After the measurement, CD laser emission is kept on. It is turned off when POWER key is switched off.	(Display 1)  CD laser current measurement mode The value denotes the current in decimal notation. (Display 2)  The above example shows the initial current is 0XXmA and the measured value is 0YYmA.	In STOP (no disc) mode, press [■ , STOP] button on the main unit, and [3] button on the remote control unit. Cancelled automatically 5 seconds later.

Item		FL Display	Key Operation
Mode Name	Description		Front Key
Micro-processor firmware version display & EEPROM checksum display.	Micro-processor firmware version display & EEPROM checksum display. EEPROM checksum is only available due to existence of EEPROM IC.	(Display 1)  (Display 2)  (Condition 1)  If the version of the EEPROM does not match, [NG] is displayed. (Condition 2)  (a) If there is NO EEPROM header string OR (b) If there is no EEPROM (no data is received by micro-processor), [NO] is displayed. (Condition 3)  If the EEPROM version matches, checksum [YYY] is displayed. (Display 3) 	In STOP (no disc) mode, press [ , STOP] button on the main unit, and [7] button on the remote control unit. Cancelled automatically 5 seconds later.

9.4.2. Service Mode Table 3

Item		FL Display	Key Operation
Mode Name	Description		Front Key
Initialization	Initialization. User settings are cancelled and player is initialized to factory setting. It is necessary when after replacement of micro-processor (DV5.0 LSI) IC, Flash ROM IC, EEPROM IC & HDMI Module P.C.B.		In STOP (no disc) mode, press [ , STOP] button on the main unit, and [≥ 10] button on the remote control unit. Cancelled automatically 5 seconds later.
Region display	Region code display, TV Broadcasting system & the model no. information Note: Refer to figure 2 for video design information		In STOP (no disc) mode, press [ , STOP] button on the main unit, and [6] button on the remote control unit. Cancelled automatically 5 seconds later.

Item		FL Display	Key Operation
Mode Name	Description		Front Key
DVD (HDMI) module firmware version display	DVD (HDMI) module firmware version is displayed on the FL Display. The firmware version can be updated using recovery disc. Note: It is necessary to check for firmware version before carrying out the version up using the disc		In STOP (no disc) mode, press [■, STOP] button on the main unit, and [8] button on the remote control unit. Cancelled automatically 5 seconds later.
Communication error display	Displays frequency of communication errors between system control IC and mechanism control IC in the DVD (HDMI) Module P.C.B.		In STOP (no disc) mode, press [■, STOP] button on the main unit, and [MENU] button on the remote control unit. Cancelled automatically 5 seconds later.
ECC error check	ECC refers to Error correction code. It describes the error correction code that was carry out for the decoding of audio & video.	(Display 1) (Display 2) 	In STOP (no disc) mode, press [■, STOP] button on the main unit, and [TOP MENU] button on the remote control unit. Press [⏻] button to exit. Press [FL Display] button on remote control unit for next page (FL Display).
CPPM/CRM Keys Check	CPPM/CPRM refers to the content protection for Recordable Media & Pre-Recorded Media. It displays the existence of the keys as "1" or "0".		In STOP (no disc) mode, press [■, STOP] button on the main unit, and [EQ] button on the remote control unit. Cancelled automatically 5 seconds later.

* Refer to "Figure 2 Video Design Information" for details.

Model Series	Country Region	Region Code	TV Broadcasting System	Product		
				Signal System (Default)	Region Display (Default)	OSD Menu Language
P, PC, PX	USA, Canada, PX	1	NTSC	NTSC (*A)	1PN	English, Spanish, Canadian French
(S)	Japan	2	NTSC	NTSC (*A)	2PN	Japanese, English
E	Europe	2	PAL	PAL (*C)	2P6	English, French, German, Spanish, Polish, Russian, Czech, Hungarian
EB, EG	Europe	2	PAL	PAL (*C)	2P6	English, French, German, Italian, Spanish, Polish, Swedish, Dutch
GC, GS	Middle East	2	PAL	PAL (*C)	2P6	English, French, German, Spanish, Polish, Russian, Czech, Hungarian
GCS, GD, GT, GCT	South East Asia, Korea, Taiwan	3	PAL NTSC	NTSC (*B)	3PN	English, Traditional Chinese
GN	New Zealand, Australia	4	PAL	NTSC (*C)	4P6	English, French, German, Italian, Spanish, Polish, Swedish, Dutch

Model Series	Country Region	Region Code	TV Broadcasting System	Product		
				Signal System (Default)	Region Display (Default)	OSD Menu Language
PL, GCP, LB	Central/South/Latin America	4	NTSC	NTSC (*D)	4PN	English, Spanish, French, Brazilian Portuguese
EE	CIS	5	SECAM	PAL (*C)	5P6	English, French, German, Spanish, Polish, Russian, Czech, Hungarian
GK	China	6	PAL	NTSC (*B)	6PN	English, Simplified Chinese

NTSC (*A)

Source	Output
Screen Saver	NTSC
NTSC disc	NTSC
PAL disc	PAL (DVD-V)
	NTSC (DVD-A/VCD)

NTSC (*B)

Source	Output
Screen Save	NTSC
NTSC disc	NTSC (default)
	PAL60
PAL disc	PAL60

NTSC (*C)

Source	Output
Screen Save	PAL
NTSC disc	PAL60 (default)
	NTSC
PAL disc	PAL

NTSC (*D)

Source	Output
Screen Save	NTSC
NTSC disc	NTSC
PAL disc	NTSC

Explanation of Display

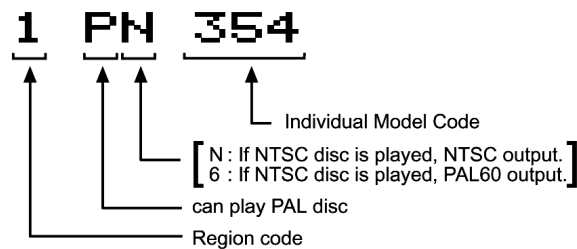
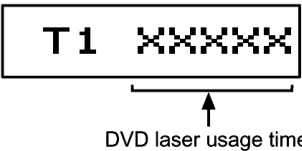
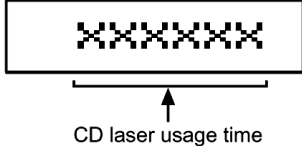


Figure 2 Video Design Information

9.4.3. Service Mode Table 4

Item		FL Display	Key Operation
Mode Name	Description		Front Key
DVD (HDMI) Module Reset	To reset DVD (HDMI) Module P.C.B. This process is used when the DVD Module or Flash ROM IC is replaced with a new one.	RESET	While in initialization mode, press and hold [■, STOP] button on the main unit, follow by [Enter] button on the remote control. Cancelled automatically 5 seconds later.

Item		FL Display	Key Operation
Mode Name	Description		Front Key
Timer 1 check	Timer 1 check. Laser operation time is measured separately for DVD laser and CD laser.	(Display 1)  DVD laser usage time Shown to the above is DVD laser usage time, and to the below is CD laser usage time. Time is shown in 5 digits of decimal notation in a unit of 10 hours. "00000" will follow "99999". (DVD laser) (Display 2)  CD laser usage time Time is shown in 6 digits of decimal notation in a unit of 10 hours. "000000" will follow "99999". (CD laser)	In STOP (no disc) mode, press [■, STOP] button on the main unit, and [▲] button on the remote control unit. Cancelled automatically 5 seconds later. Press "FL Display" button for next page of FL Display.
Timer 1 reset	Timer 1 reset. Laser operation timer of both DVD laser and CD laser is reset all at once.	 Time is shown in 5 digits of decimal notation in a unit of 10 hours. It will clear to "00000" upon reset.	While display Timer 1 data, press [■, STOP] button on the main unit, and [▼] button on the remote control unit. Cancelled automatically 5 seconds later.
Timer 2 check	Timer 2 check. Spindle motor operation timer.	 Time is shown in 5 digits of decimal notation in a unit of 1 hour. "00000" will follow "99999".	In STOP (no disc) mode, press [■, STOP] button on the main unit, and [►] button on the remote control unit. Cancelled automatically 5 seconds later.
Timer 2 reset	Timer 2 reset. Spindle motor operation timer.	 Time is shown in 5 digits of decimal notation in a unit of 1 hour. It will be cleared to "00000" upon activating this.	While display Timer 2 data, press [■, STOP] button on the main unit, and [◀] button on the remote control unit. Cancelled automatically 5 seconds later.

9.4.4. Error Code Table Display

- The mechanism unit is equipped with fail-safe protection for the [OPEN/CLOSE], [TURN] & [UP/DOWN] operations. When it detects any abnormalities, the fail-safe protection will be performed with an error code being memorized & the power supply [OFF] will be carried out.

Below is the error code display:-

Mecha operation	The kind of error	FL Display
OPEN/CLOSE	The OPEN error under clamp rise	H010
	The OPEN error under clamp down	H011
	The CLOSE error under clamp rise	H012
	The CLOSE error under clamp down	H013
UP/DOWN	UP error	H014
	DOWN error	H015
TURN	Right rotation error	H016
	Reverse rotation error	H017
TOC READ	TOC READ error	H018
FOCUS	Timeout error	H019
TURN	The right rotation direction stop position error	H0110
	The reverse rotation direction stop position error	H0111

9.5. Sales Demonstration Lock Function

This function prevents discs from being lost when the unit is used for sales demonstrations by disabling the disc eject function. "LOCKED" is displayed on the unit, and ordinary operation is disabled.

9.5.1. Setting

- **Prohibiting removal of disc**

1. Select the DVD/CD function.
2. At POWER ON condition, press and hold down the [■, STOP] button and the power button on the player for at least three seconds. (The message, "___LOCKED_" appears when the function is activated.)

Note:

OPEN/CLOSE and DISC EXCHANGE buttons are invalid and the player displays "___LOCKED_" while the lock function mode is entered.

- **Prohibiting operation of selector and disc**

1. Select the DVD/CD function.
2. AT POWER ON condition, press and hold down the [►] button and the power button on the player for at least three seconds. (The message, "___LOCKED_" appears when the function is activated.)

Note:

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

9.5.2. Cancellation

The lock can be cancelled by the same procedure as used in setting. ("UNLOCK" is displayed on cancellation. Disconnecting the power cable from power outlet does not cancel the lock.)

10 Assembling and Disassembling

10.1. Caution

“ATTENTION SERVICER”

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

1. This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
2. For reassembly after operation checks or replacement, reverse the respective procedures.
Special reassembly procedures are described only when required.
3. Select items from the following index when checks or replacement are required.
4. Refer to the Parts No. on the page of “Replacement Parts List” (Section 24), if necessary.

Warning :-

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

Caution:

After replacing of CD/DVD Changer Unit, ageing test is necessary. Please confirm operation for CD/DVD Changer Unit.

Caution Note:

Please use original screw & at correct locations.

Below is the list of disassembly sections

- Disassembly of Top Cabinet
- Disassembly of Rear Block
- Disassembly of DVD Changer Unit (DL2SV) and HDMI P.C.B.
- Disassembly of Main P.C.B.
- Disassembly of Front Panel
- Replacement of Power P.C.B. and Speaker P.C.B.
- Replacement for Power Amp IC
- Disassembly of Panel P.C.B.
- Disassembly of Sub Panel P.C.B.
- Disassembly of Deck Mechanism Unit
- Disassembly for Deck P.C.B.
- Disassembly of Traverse Unit
- Disassembly of Deck Mechanism Main Components
- Disassembly of Deck Mechanism P.C.B.
- Replacement for cassette lid
- Rectification for tape jam problem
- Stacking of Surround Speaker & Speaker to enjoy Bi-Amp TS Mode

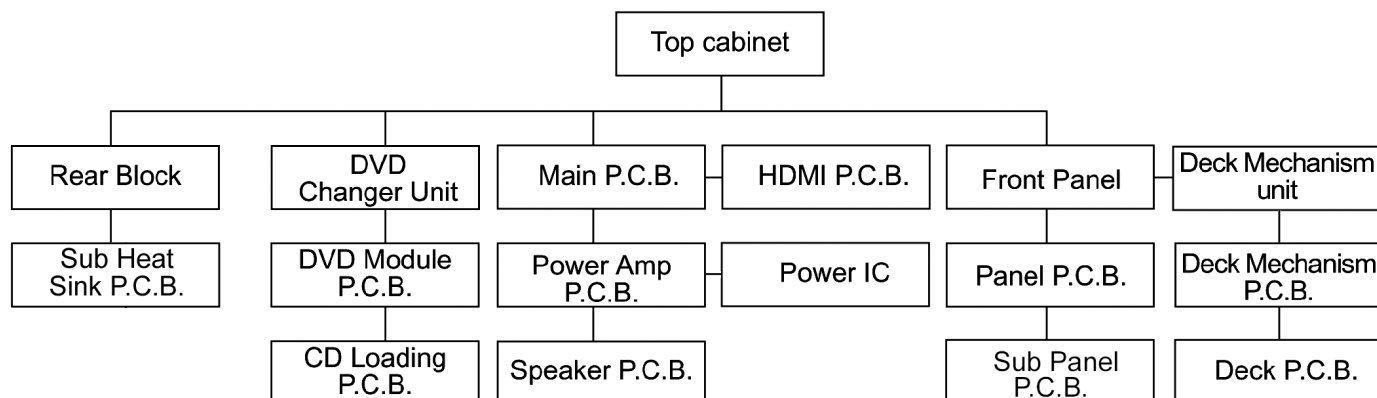
Below shown is the part no. of different screws types used:

Screw Type	Part No.
a	RHD30004-K1
b	RHD30119-S
c	XTW3+12TFJ
d	RHD30111-3
e	RHD26046
f	XTN26+8GFJ
g	XTV2+6GFJ
h	XTB3+10JFJ
q	XTW26+10SFJ
r	RHD26022-1
s	XYC2+JF17FJ

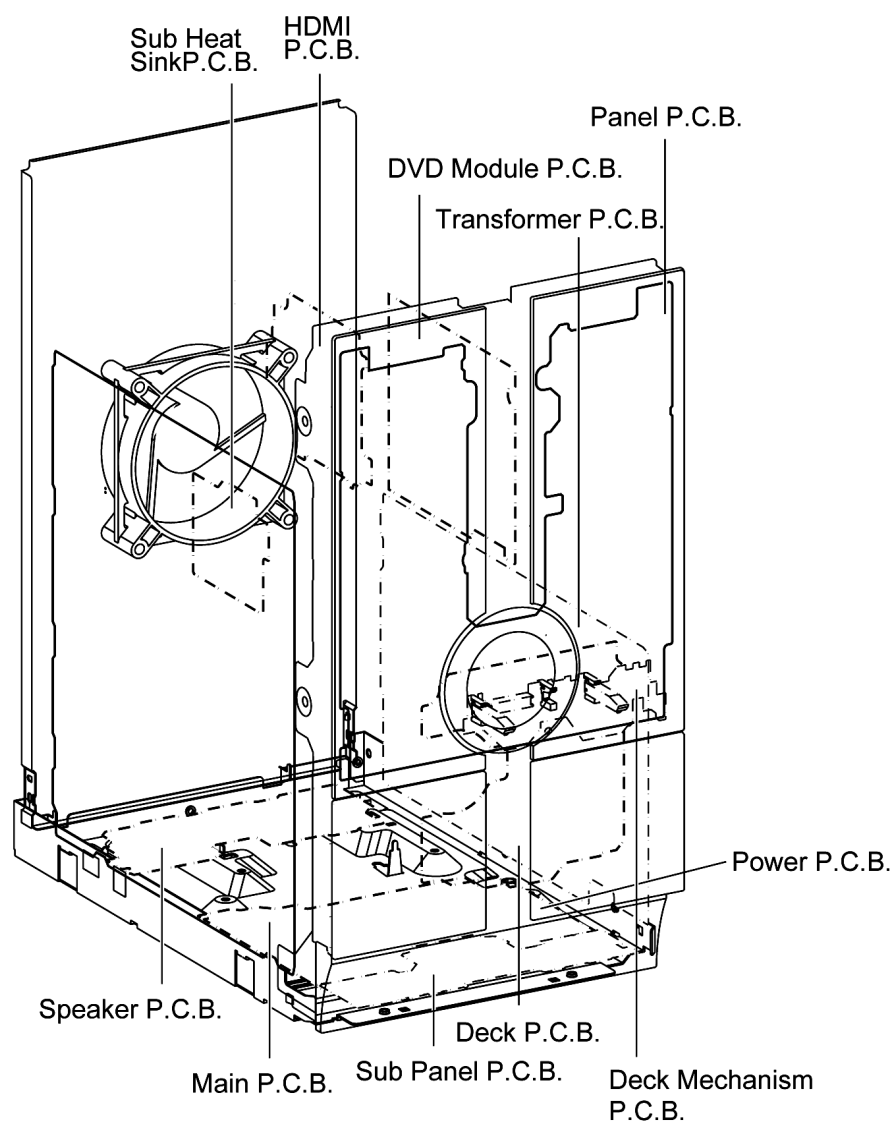
10.2. Disassembly flow chart

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

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



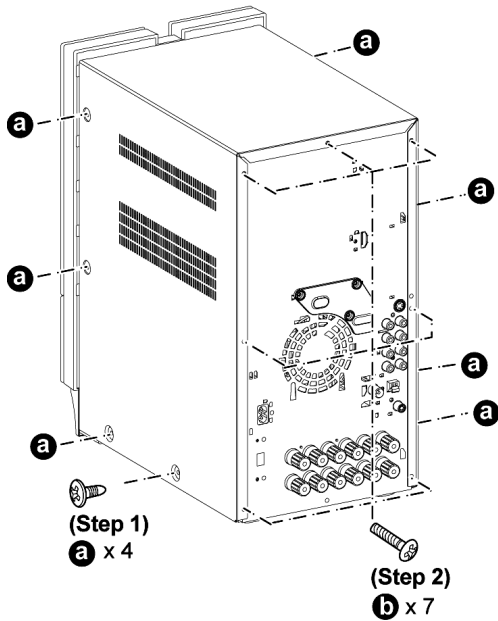
10.3. Main Parts Location



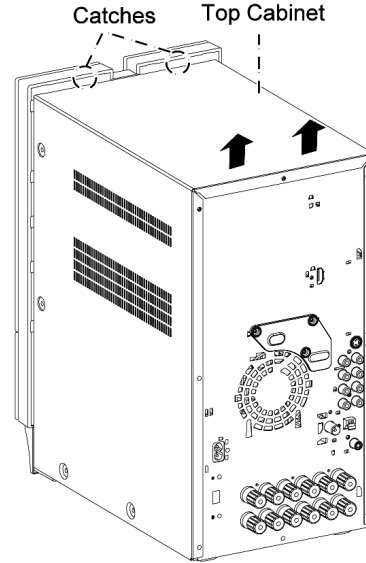
10.4. Disassembly of Top Cabinet

Step 1 Remove 4 screws at each side.

Step 2 Remove 7 screws at rear panel.



Step 3 Lift up both sides of the top cabinet.



Step 4 Push the top cabinet backwards to release the catches.

Step 5 Remove the top cabinet.

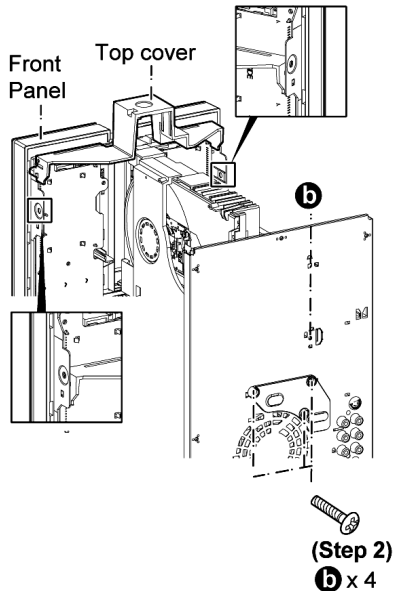
10.5. Disassembly of Rear Block

· Follow the (Step 1) - (Step 5) of Item 10.4

Step 1 Remove top cover.

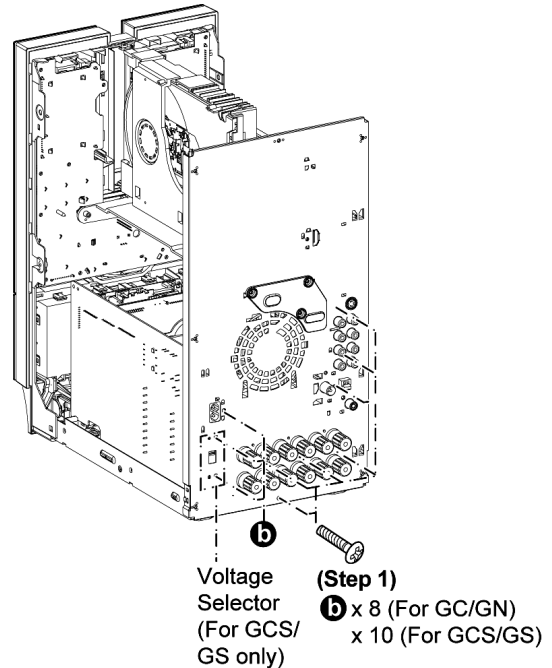
Step 2 Remove 4 screws.

Step 3 Remove plastic cover.



Step 4 Remove 8 screws. (For GC/GN)

Note : Remove 10 screws. (For GCS/GS)

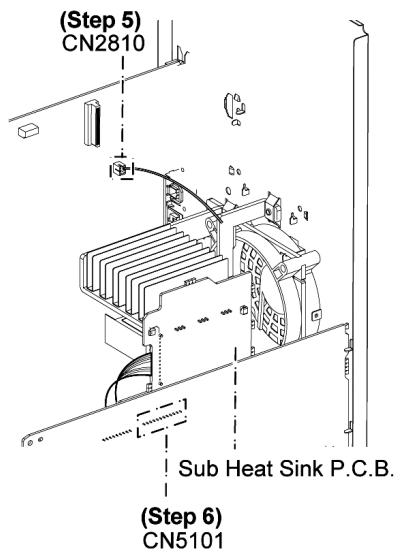


Step 5 Detach cable at connector (CN2810) on Main P.C.B..

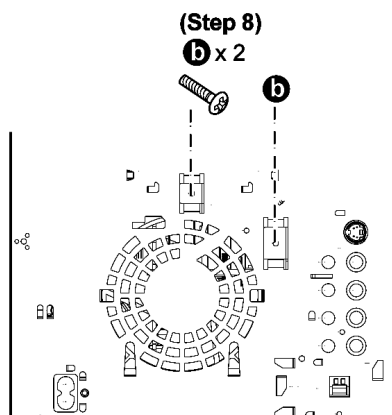
Step 6 Detach cable at connector (CN5101) on Transformer P.C.B..

Step 7 Remove rear block.

· Disassembly of Sub Heat Sink P.C.B.



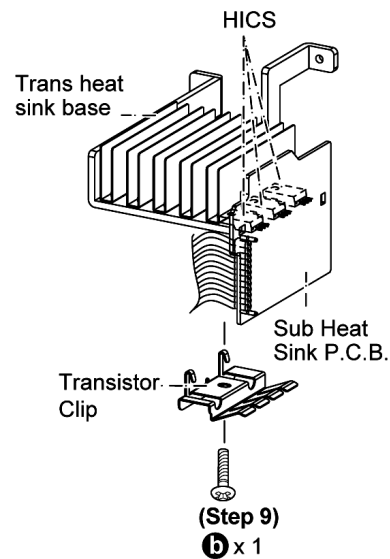
Step 8 Remove 2 screws.



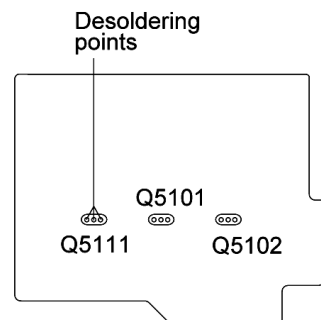
• Replacement of regulator transistors

(Q5111/Q5101/Q5102).

Step 9 Remove 1 screw.



Step 10 Remove transistor clip.



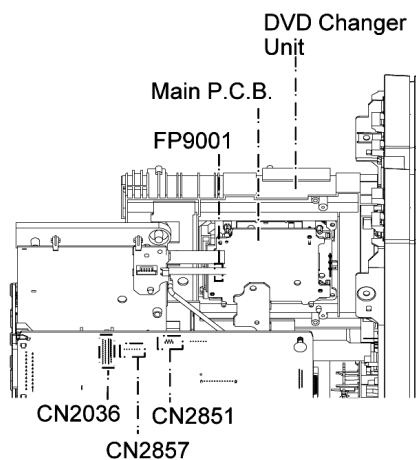
Step 11 Desolder & remove the component.

10.6. Disassembly of DVD Changer Unit (DL2SV) & HDMI P.C.B.

- Follow the (Step 1) - (Step 5) of Item 10.4
- Follow the (Step 1) - (Step 3) of Item 10.5

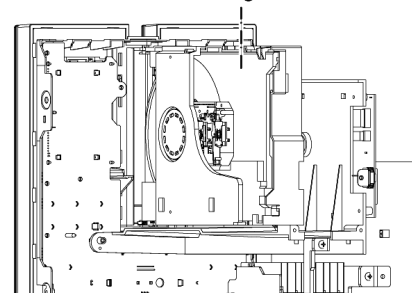
Step 1 Detach the FFC cables at connectors (CN2036 & CN2851) on Main P.C.B..

Step 2 Detach cable at connector (CN2857) on Main P.C.B..



Step 3 Detach cable at connector (FP9001) on DVD Module P.C.B..

(Step 4)
DVD Changer Unit

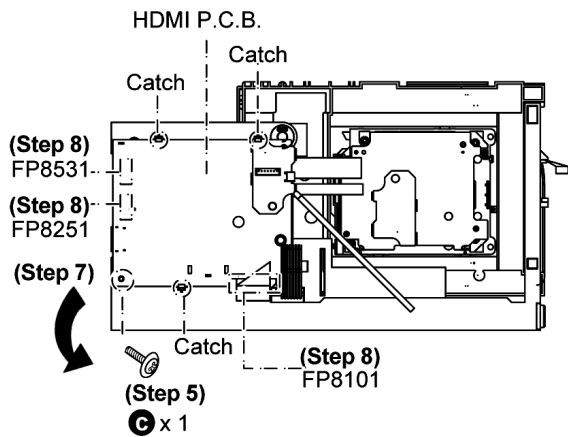


Step 4 Remove DVD Changer unit.

• Disassembly of HDMI P.C.B.

Step 5 Remove 1 screw.

Step 6 Release 3 catches.



Step 7 Flip the HDMI P.C.B. over.

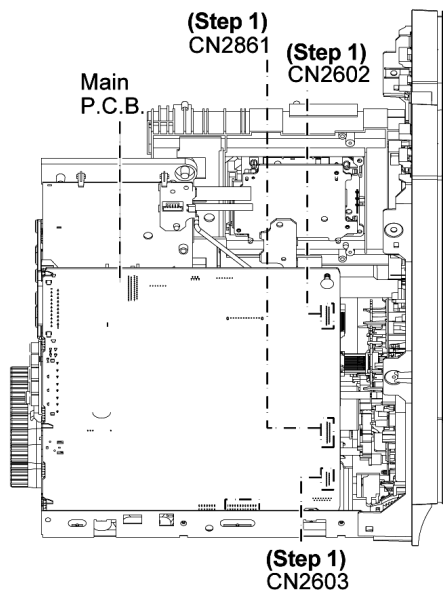
Step 8 Detach FFC cables at connectors (FP8531, FP8251, & FP8101).

Step 9 Remove HDMI P.C.B..

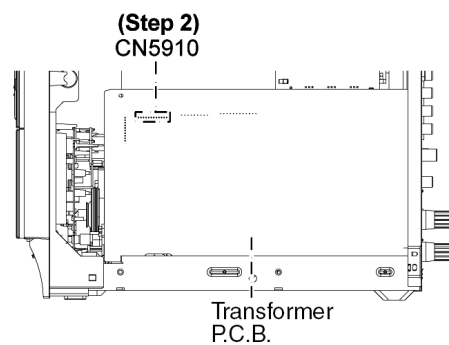
10.7. Disassembly of Main P.C.B.

- Follow the (Step 1) - (Step 5) of Item 10.4
- Follow the (Step 1) - (Step 7) of Item 10.5

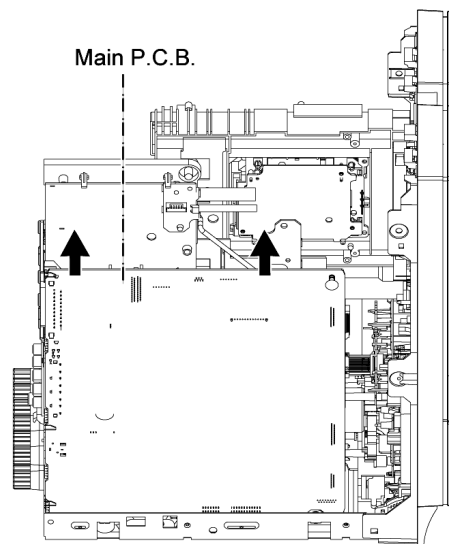
Step 1 Detach FFC cables at connectors (CN2602, CN2861 & CN2603) on Main P.C.B..



Step 2 Detach cable at connector (CN5910) on Transformer P.C.B..



Step 3 Lift up and remove Main P.C.B..

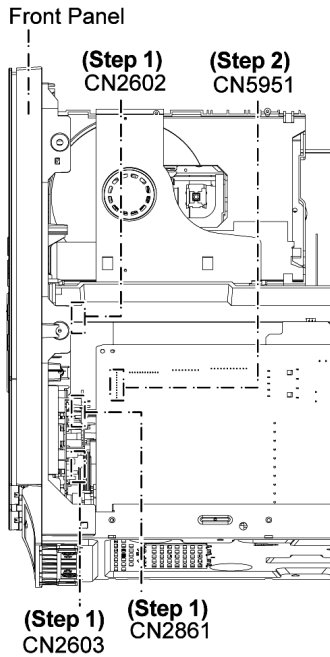


10.8. Disassembly of Front Panel

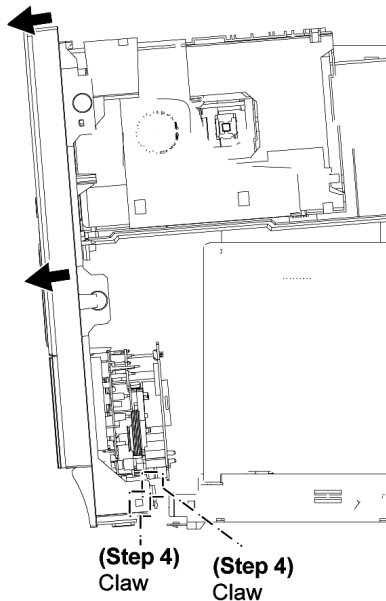
- Follow the (Step 1) - (Step 5) of Item 10.4
- Follow the (Step 1) - (Step 3) of Item 10.6

Step 1 Detach FFC at connectors (CN2602, CN2603 & CN2861) on Main P.C.B..

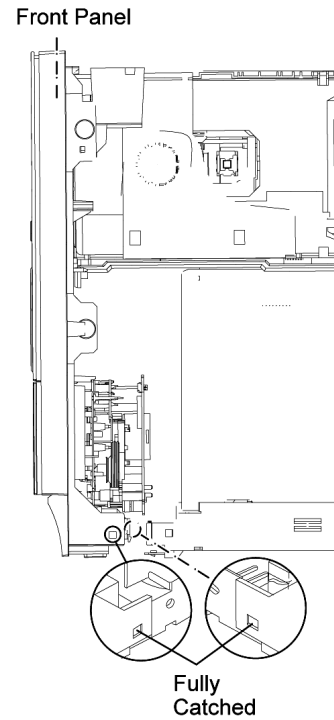
Step 2 Detach cable at connector (CN5951) on Transformer P.C.B..



Step 3 Bent the front panel unit slightly forward as shown.



Step 4 Release 2 claws.



Step 5 Remove the front panel.

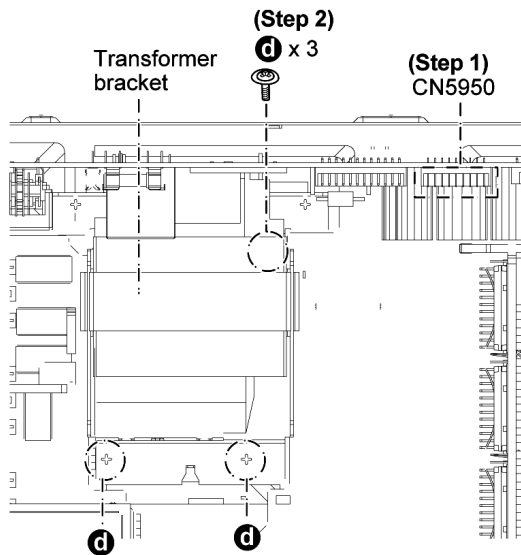
Note: Ensure 2 claws located at the bottom chassis is seated into the 2 slots at bottom of front panel at 2 catches (one on each side) of bottom chassis to be aligned to front panel's slot. Assembly is secured upon hearing clicking sound.

10.9. Disassembly of Power P.C.B. & Speaker P.C.B.

- Follow the (Step 1) - (Step 5) of Item 10.4
- Follow the (Step 1) - (Step 3) of Item 10.5
- Follow the (Step 1) - (Step 3) of Item 10.7
- Follow the (Step 1) - (Step 4) of Item 10.8

Step 1 Detach cable at connector (CN5950).

Step 2 Remove 3 screws on Transformer Bracket.



Step 3 Remove 3 screws on Power P.C.B. and 1 screw on

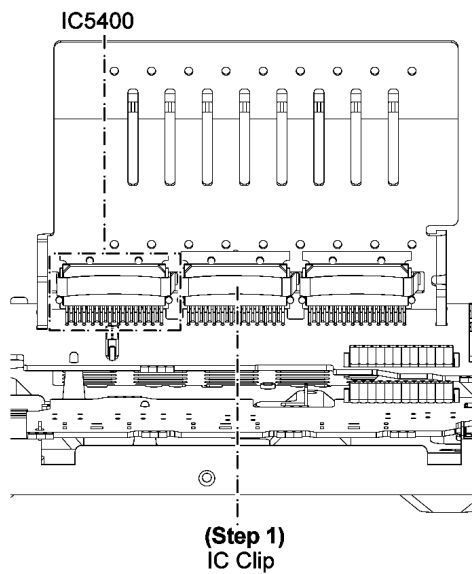
10.10. Replacement for Power Amp IC

- Follow the (Step 1) - (Step 5) of Item 10.4
- Follow the (Step 1) - (Step 3) of Item 10.5
- Follow the (Step 1) - (Step 4) of Item 10.8

Replacement of Power Amp IC (IC5400)

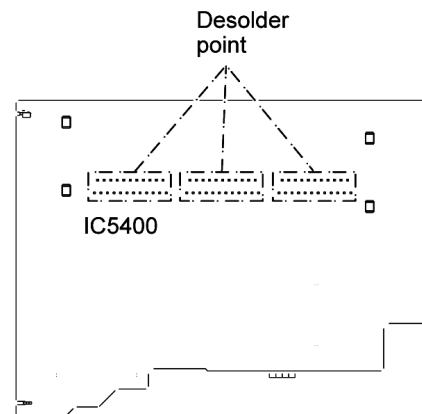
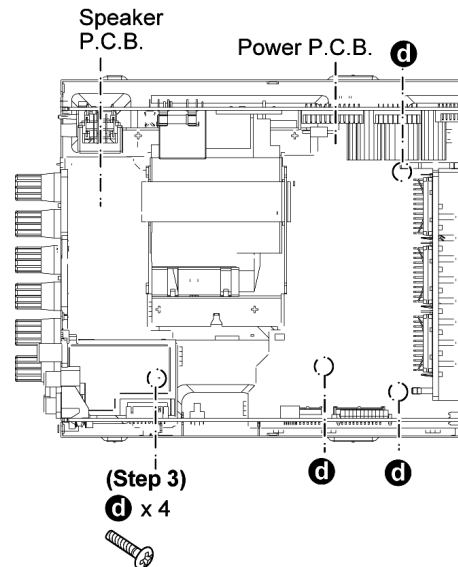
Step 1 Remove IC clip.

- IC5400



Step 2 Flip over the P.C.B..

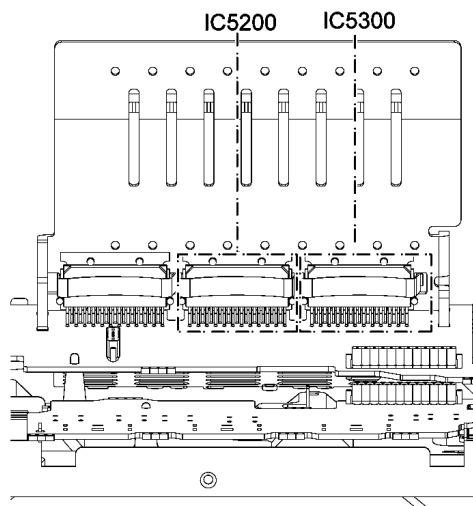
Speaker P.C.B..



Step 3 Desolder Power Amp IC IC5400.

Step 4 Remove the Power Amp IC.

- Replacement of Power Amp ICs (IC5200 & IC5300)



10.11. Disassembly of Panel P.C.B.

- Follow the (Step 1) - (Step 5) of Item 10.4
- Follow the (Step 1) - (Step 3) of Item 10.6
- Follow the (Step 1) - (Step 5) of Item 10.8

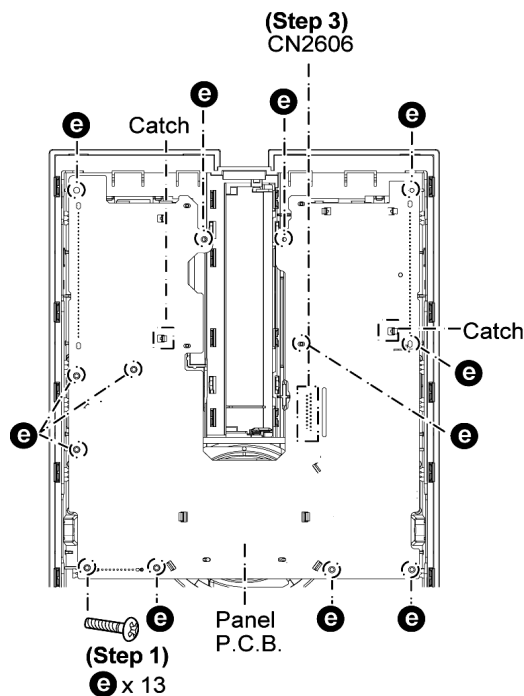
Step 1 Remove DVD changer unit.

Step 2 Remove 13 screws.

Step 3 Detach cable at connector (CN2606) at Main P.C.B..

Step 4 Release 2 catches.

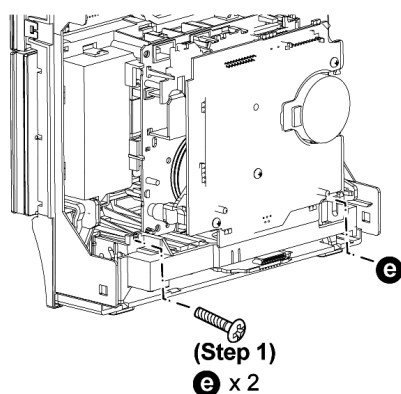
Step 5 Remove Panel P.C.B..



10.12. Disassembly of Sub Panel P.C.B.

- Follow the (Step 1) - (Step 5) of Item 10.4
- Follow the (Step 1) - (Step 3) of Item 10.6
- Follow the (Step 1) - (Step 5) of Item 10.8

Step 1 Remove 2 screws.

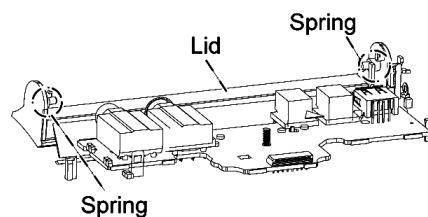


Step 2 Flip the lid unit down.

Step 3 Remove the Sub Panel P.C.B..

- Disassembly of Lid

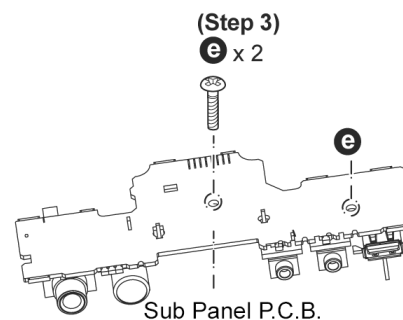
Step 1 Lift the spring sideward.



Step 2 Remove Lid.

Note: Do not misplace the spring.

- Disassembly of Lid (Sub Panel P.C.B.)



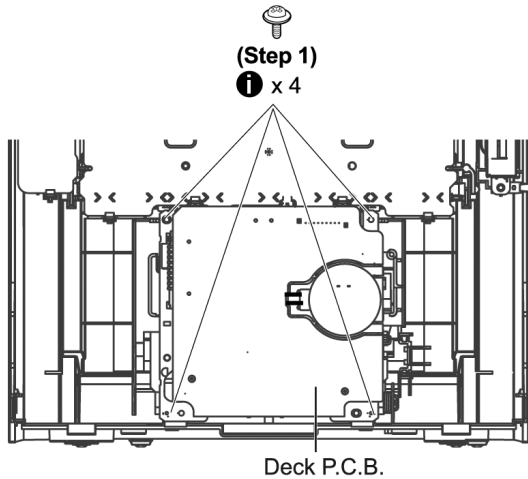
Step 3 Remove 2 screws..

Step 4 Release catch and remove Sub Panel P.C.B..

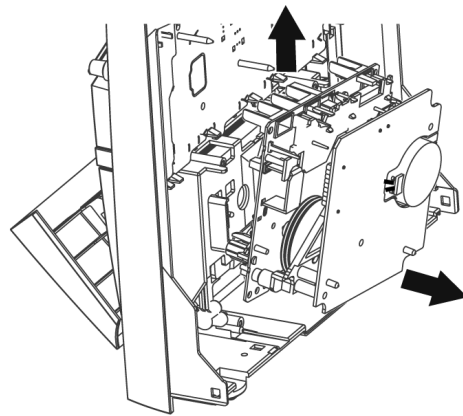
10.13. Disassembly of Deck Mechanism Unit

- Follow the (Step 1) - (Step 5) of Item 10.4
- Follow the (Step 1) - (Step 3) of Item 10.6
- Follow the (Step 1) - (Step 5) of Item 10.8

Step 1 Remove the 4 screws.



Step 2 Push the lever upward, and then open the cassette lid ass'y.



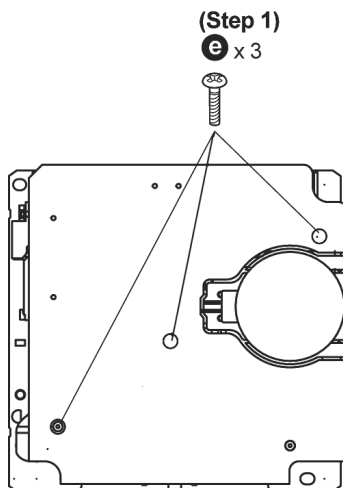
Step 3 Tilt the cassette mechanism unit in the direction of arrow (1), and then remove it in the direction of arrow (2).

Note: For disassembly of parts for deck mechanism unit, refer to Section 10.16.

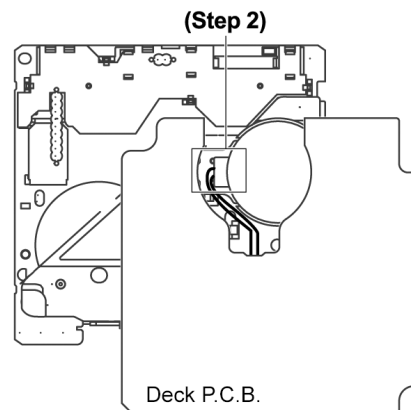
10.14. Disassembly of Deck P.C.B.

- Follow the (Step 1) - (Step 5) of Item 10.4
- Follow the (Step 1) - (Step 3) of Item 10.6
- Follow the (Step 1) - (Step 5) of Item 10.8
- Follow the (Step 1) - (Step 3) of Item 10.12

Step 1 Remove 3 screws.



Step 2 Desolder wire at deck motor terminals.



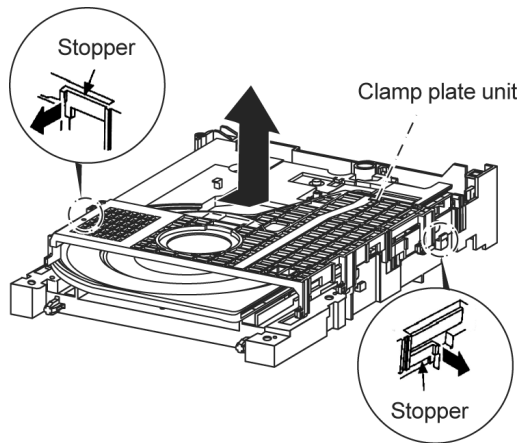
Step 3 Remove Deck P.C.B.

10.15. Disassembly of Traverse Unit

- Follow the (Step 1) - (Step 5) of Item 10.4
- Follow the (Step 1) - (Step 4) of Item 10.6

10.15.1. Disassembly of Tray and Sub Tray

Step 1 Slide the clamp plate unit while pressing the stopper in the arrow direction, and remove the clamp plate unit.

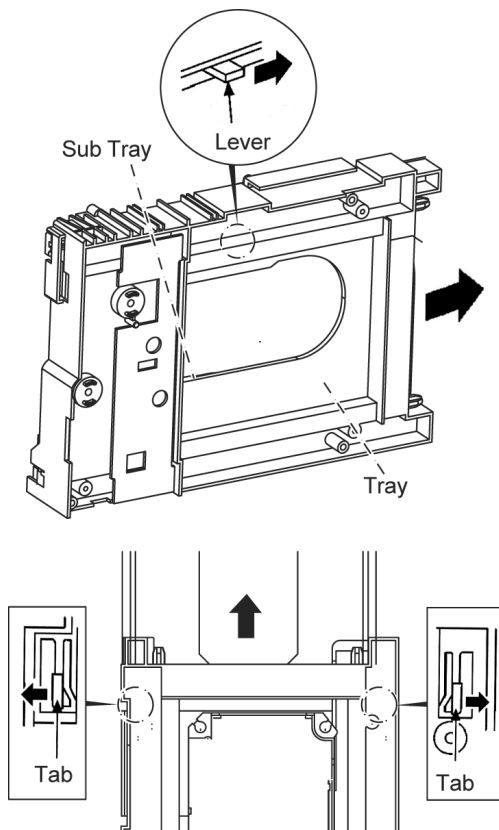


Step 2 Raise the CD Loading unit vertically.

Step 3 Slide the lever fully in the direction of arrow, pull the tray out. (The sub tray and tray be out together).

Note:

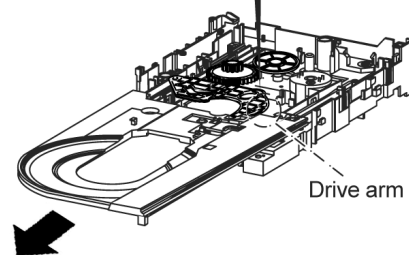
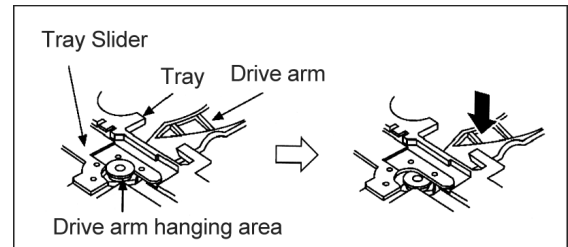
Tray cannot be take out when CD Loading unit place in horizon even pushing lever.



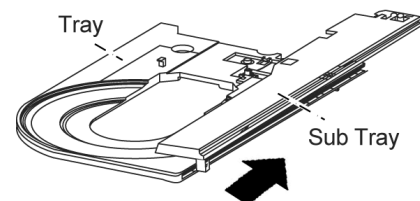
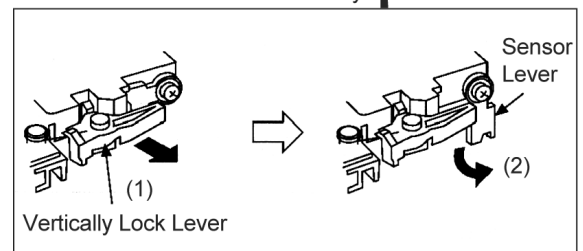
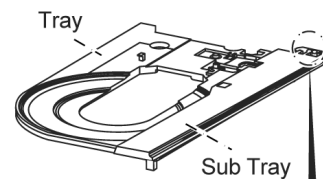
Step 4 Spread the tabs at the both side. (The tray slides a little forward and stops.)

Step 5 Hook the drive arm hanging area over the tray slider and tray.

Step 6 Pull out tray and sub tray.



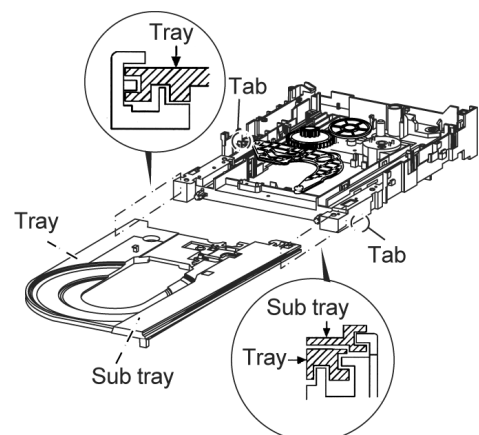
Step 7 Release the vertically lock lever, free the sensor lever.



Step 8 Pull the sub tray.

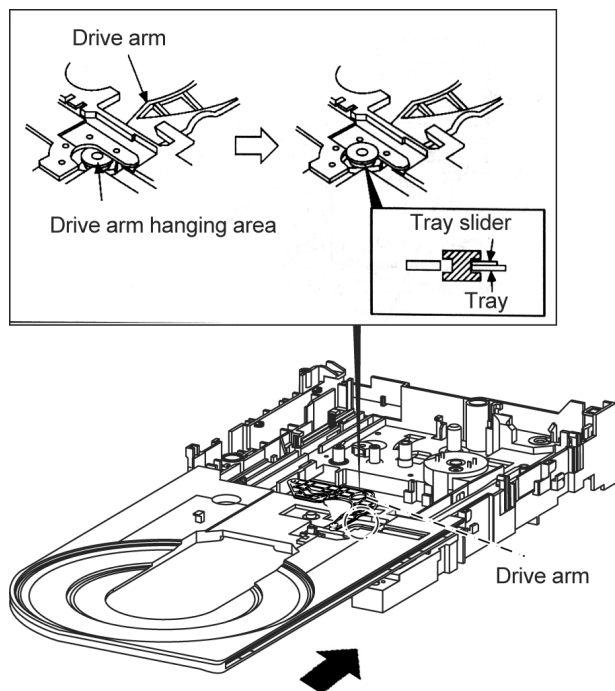
· Assembly of the tray

Step 1 Insert a part of the tray and sub tray into the unit sliding over the groove on the mecha chassis.



Step 2 Insert the tray to the point before the tab of the mecha chassis.

Step 3 Hook the drive arm hanging area over the tray slider and tray.

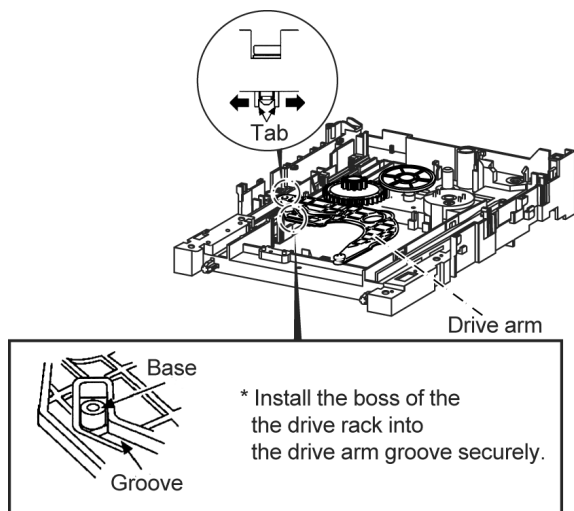


Step 4 Push the tray.

Step 5 Make sure that the tray and the drive arm move smoothly.

10.15.2. Disassembly of CD Loading Section

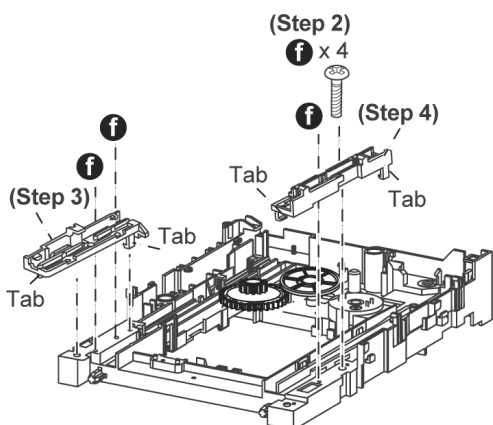
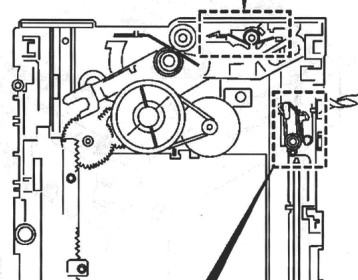
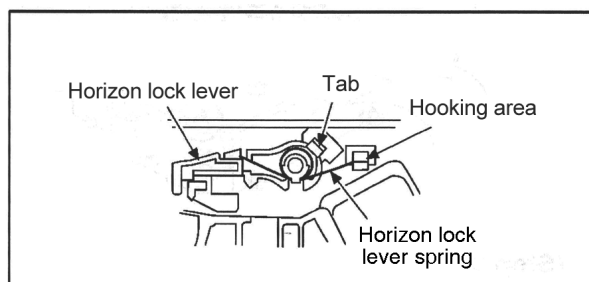
Step 1 Spread the tabs at the both sides and push out the drive arm.



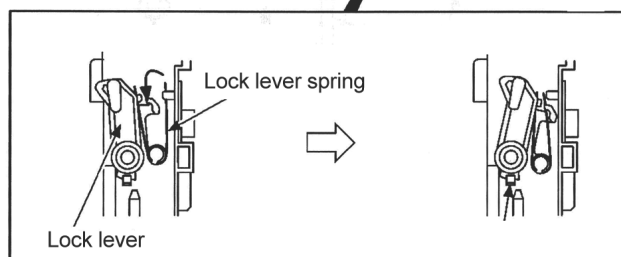
Step 4 Release the 2 tabs and remove the guide piece (R).

Step 5 Remove horizon lock lever spring hooking area.

Step 6 Remove the tab and remove the horizon lock lever.



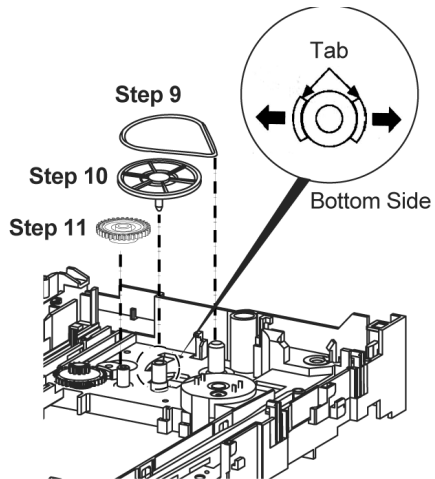
Step 3 Release the 2 tabs and remove the guide piece (L).



Step 7 Hook the lock lever spring on the lock lever projection part temporary.

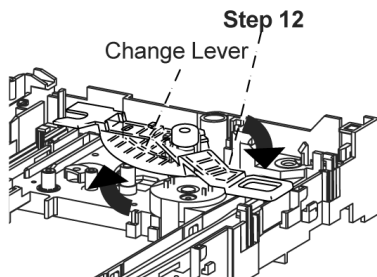
Step 8 Unlock the tab and remove the lock lever.

Step 9 Remove the belt.



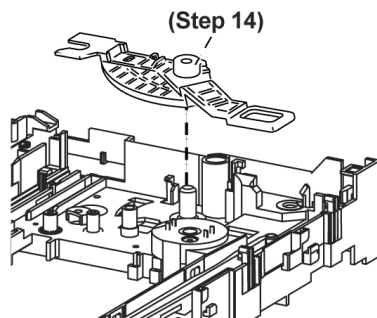
Step 10 Release 2 tab and remove pulley gear.

Step 11 Remove the relay gear.

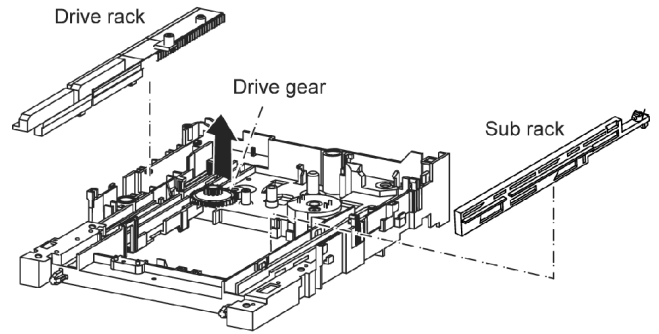


Step 12 Turn the change lever in the arrow direction till it stops.

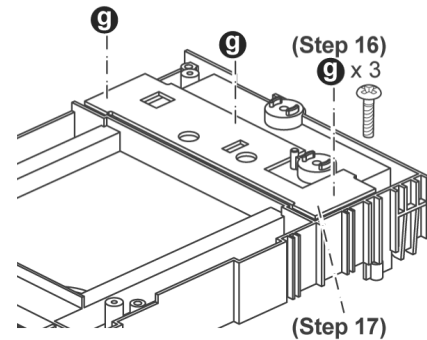
Step 13 Hook the change lever spring on the change lever project part temporary.



Step 14 Remove the change lever.

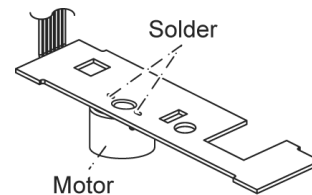


Step 15 Remove the drive rack, the sub rack and drive gear.



Step 17 Remove Tray Loading P.C.B..

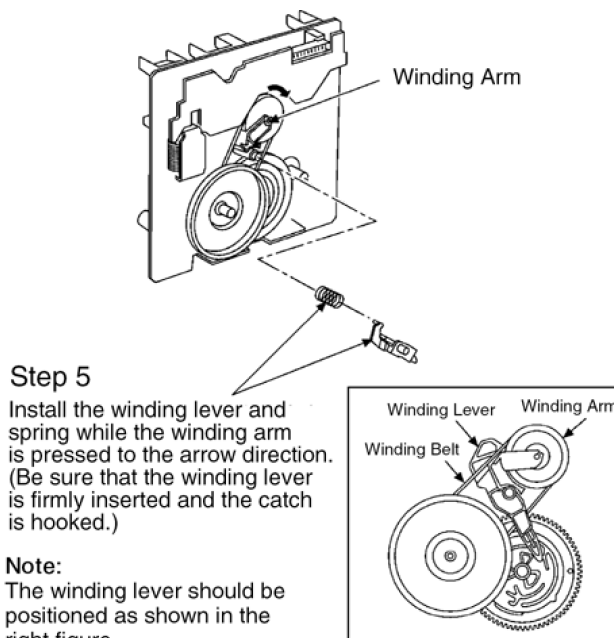
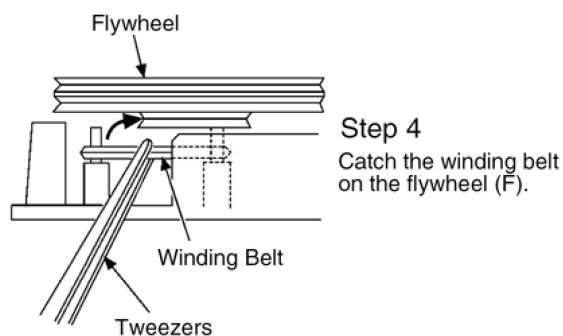
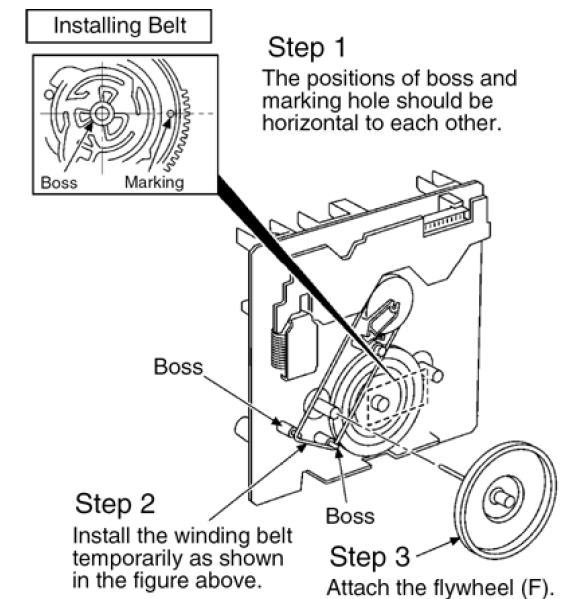
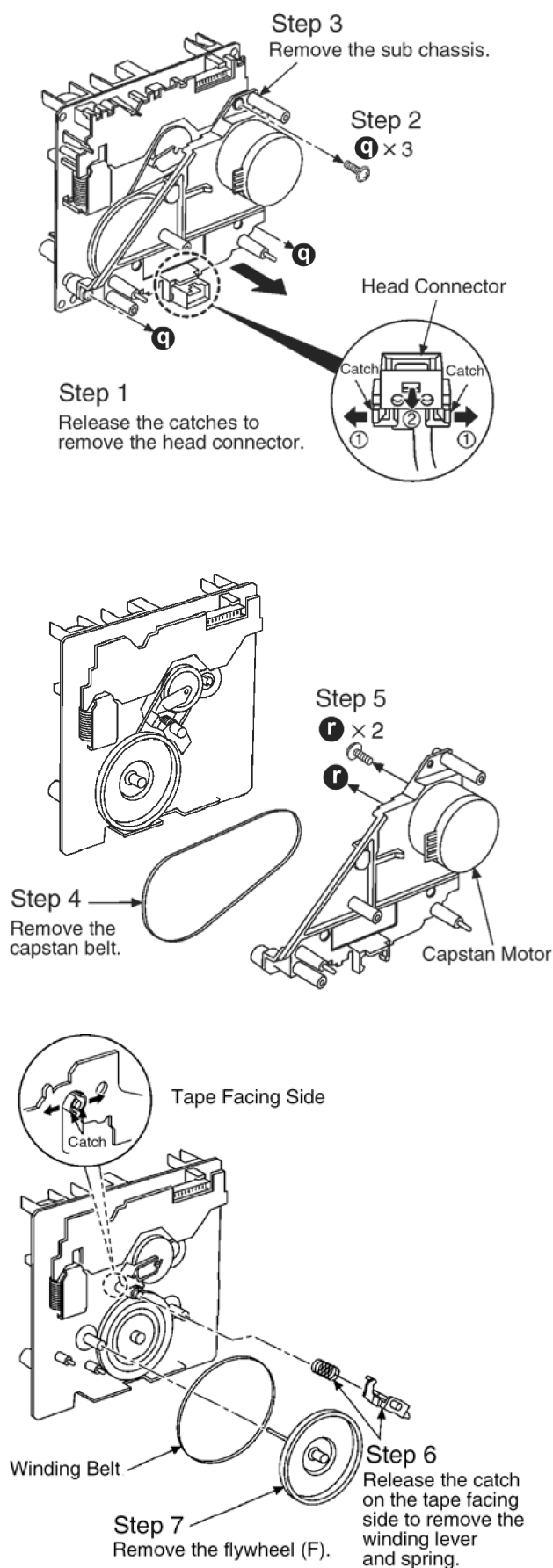
Step 18 Desolder 2 pins, remove the motor.



10.16. Disassembly of Deck Mechanism Main Components

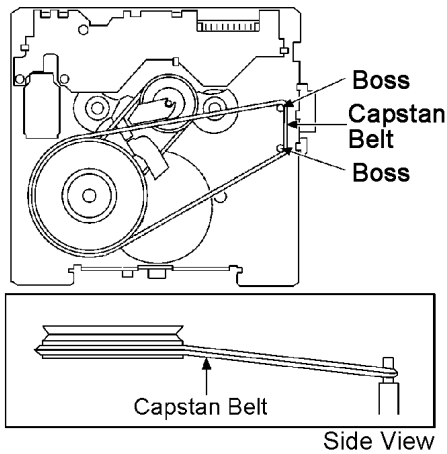
- Follow the (Step 1) - (Step 5) of Item 10.4
- Follow the (Step 1) - (Step 3) of Item 10.6
- Follow the (Step 1) - (Step 5) of Item 10.8
- Follow the (Step 1) - (Step 3) of Item 10.12
- Follow the (Step 1) of Item 10.13

10.16.1. Disassembly of Motor, Capstan Belt A, Capstan Belt B, and Winding Belt (Deck Mechanism Unit)



Step 6

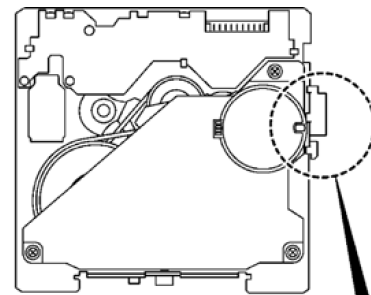
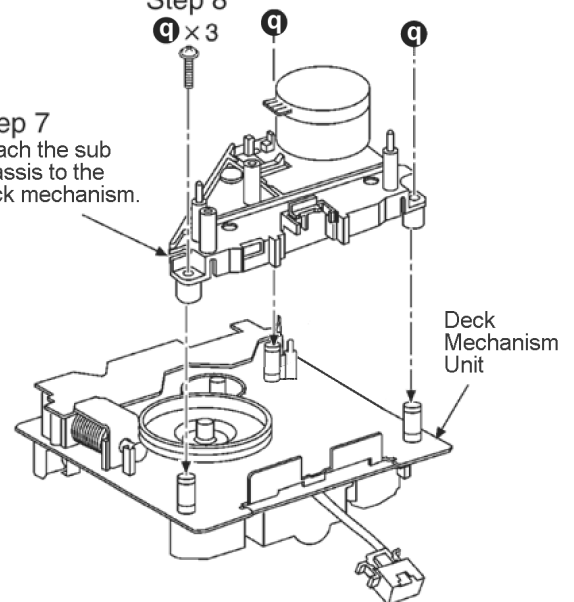
Install the capstan belt temporarily as shown in the figure below.

**Note:**

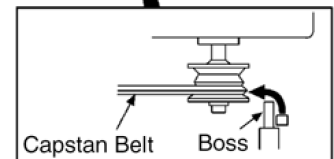
Keep the belt away from grease.

Step 8**Step 7**

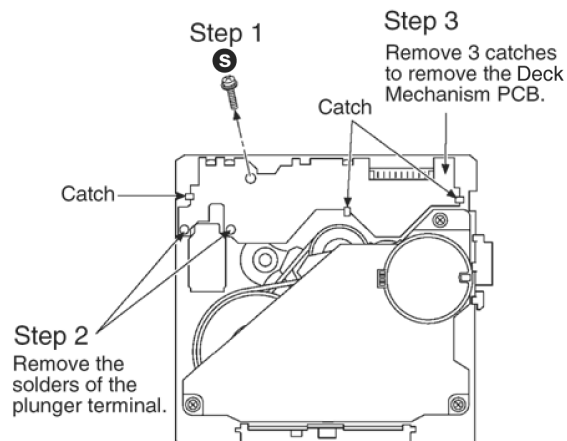
Attach the sub chassis to the deck mechanism.

**Step 9**

Catch the capstan belt to the pulley of the capstan motor.



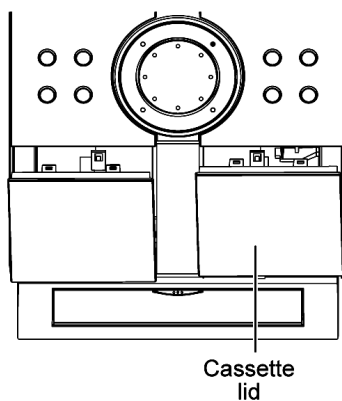
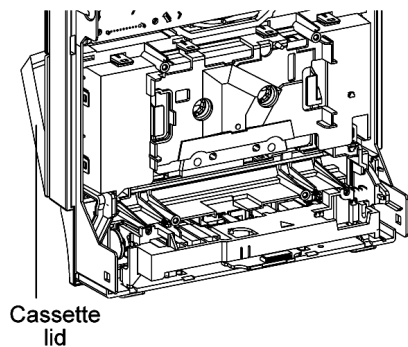
10.17. Disassembly of Deck Mechanism P.C.B.



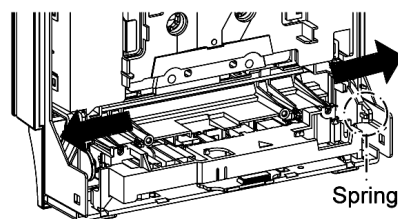
10.18. Disassembly of cassette lid

- Follow the (Step 1) - (Step 5) of Item 10.4
- Follow the (Step 1) - (Step 3) of Item 10.6
- Follow the (Step 1) - (Step 5) of Item 10.8
- Follow the (Step 1) - (Step 3) of Item 10.12

Step 1 Lift up the lever upward, open the cassette deck.



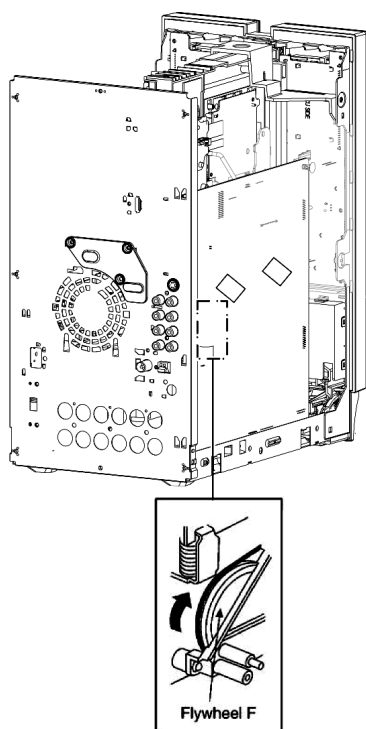
Step 2 Remove spring and push the cassette lid in the direction of arrows.



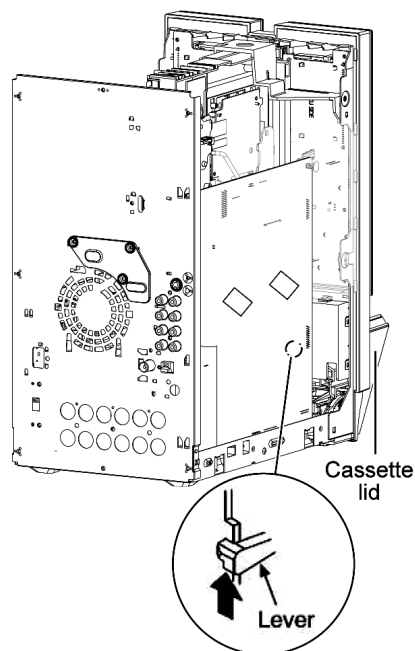
10.19. Rectification for tape jam problem

• Follow the (Step 1) - (Step 5) of Item 10.4

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

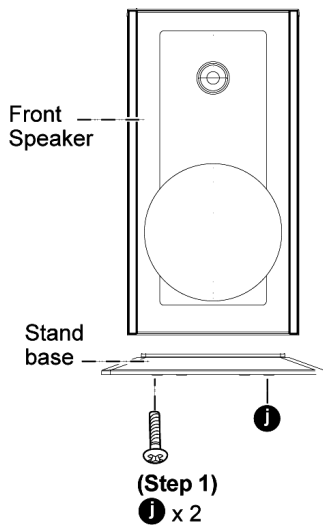


Step 2 Push the lever upward and open the cassette lid. Remove the cassette tape.

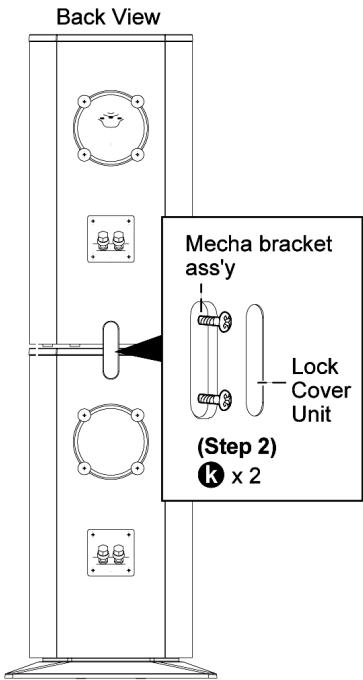


10.20. Stacking of Surround Speaker & Speakers to enjoy Bi-Amp TS Mode

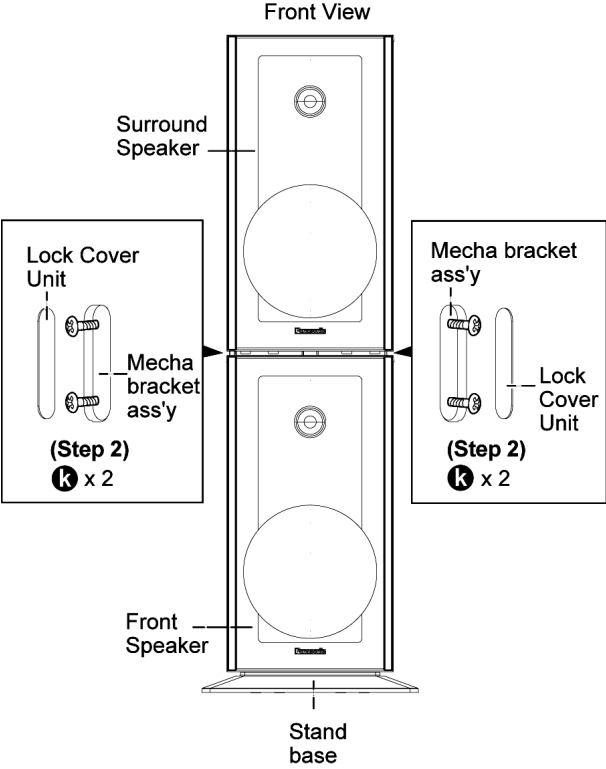
Step 1 Fix 2 screws to the stand base of the front speaker.



Step 2 Push and click the lock cover unit to the fastened mecha bracket ass'y.



Note:
If you play 5.1 Channel sources in this stack up assembly, use Bi-Amp TS Mode or Party-Stereo mode to enjoy better sound effect.



Screw Type	Part No.
j	RHDX40008-K
k	RHDX40009-K

11 Service Positions

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

11.1. Checking and Repairing of Main P.C.B. & DVD Module P.C.B.

1. Disassembly of Top Cabinet

Remove 4 screws each side

Remove 7 screws at rear panel

2. Disassembly of Rear Block

Remove Top Cover

Remove 14 screws (For GCS/GS)

Remove 12 screws (For GC/GN)

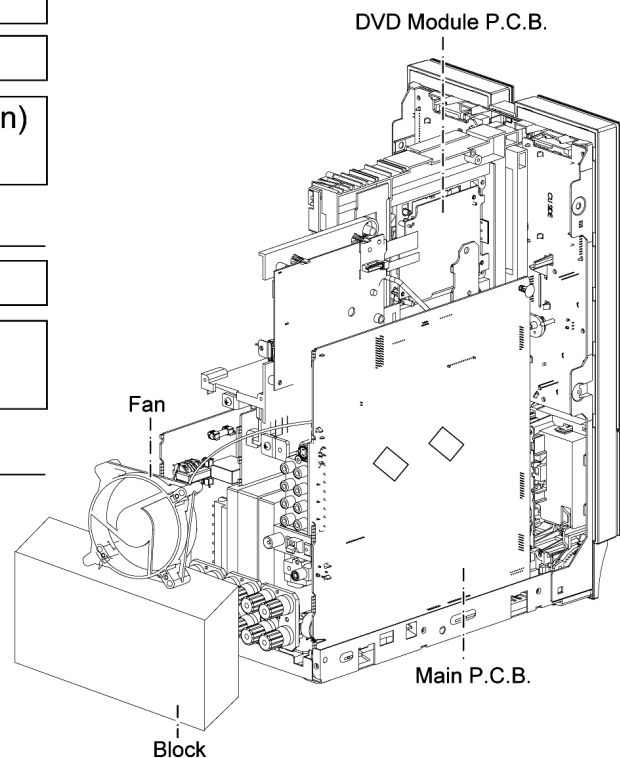
Detach cables at connectors CN2810 (fan)
& H5102

3. Disassembly of Sub Heat Sink P.C.B.

Remove 2 screws from rear panel

Detach cable at connector CN5101
(Transformer P.C.B.)

4. Reconnect CN2810 (fan)



11.2. Checking and Repairing of HDMI P.C.B.

1. Disassembly of Top Cabinet

Remove 4 screws each side

Remove 7 screws at rear panel

2. Disassembly of Rear Block

Remove Top Cover

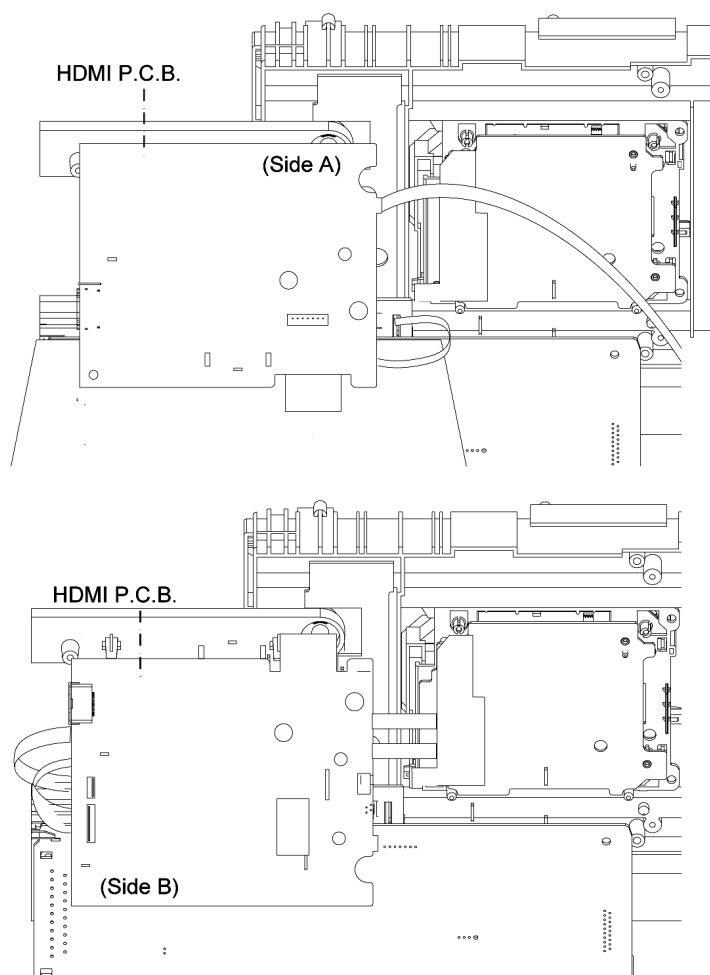
Remove 14 screws (For GCS/GS)

Remove 12 screws (For GC/GN)

Detach cables at connectors CN2810 (fan)
& H5102

3. Disassembly of HDMI P.C.B.

Remove 1 screw



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

1. Disassembly of Top Cabinet

Remove 4 screws each side

Remove 7 screws at rear panel

2. Disassembly of Rear Block

Remove Top Cover

Remove 14 screws (For GCS/GS)

Remove 12 screws (For GC/GN)

Detach cables at connectors CN2810 (fan)
& H5102

3. Disassembly of DVD Changer Unit

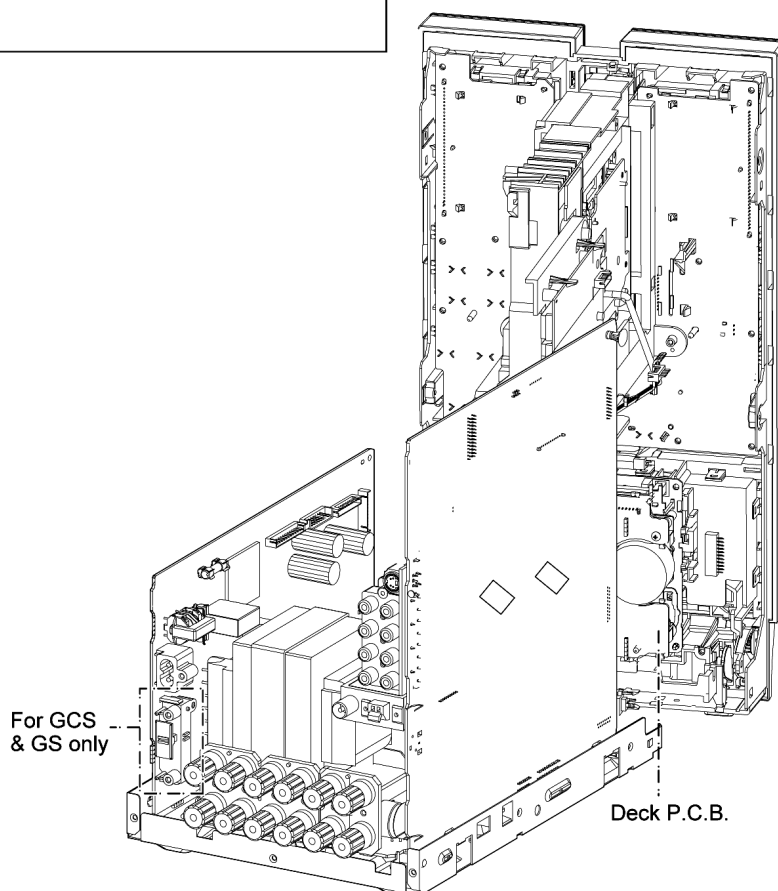
Remove Top Cover

Detach cables at connectors CN2036
& CN2857

4. Disassembly of Front Panel Block

Detach cables at connectors CN2803,
CN2861 & CN5951

Release 2 claws



11.4. Checking and Repairing of Power & Speaker P.C.B.

1. Disassembly of Top Cabinet

Remove 4 screws each side

Remove 7 screws at rear panel

2. Disassembly of Rear Block

Remove Top Cover

Remove 14 screws (For GCS/GS)

Remove 12 screws (For GC/GN)

Detach cables at connectors CN2810 (fan)
& H5102

3. Disassembly of DVD Changer Unit

Remove Top Cover

Detach cables at connectors CN2036
& CN2857

4. Disassembly of Front Panel Block

Detach cables at connectors CN2803,
CN2861 & CN5951

Release 2 claws

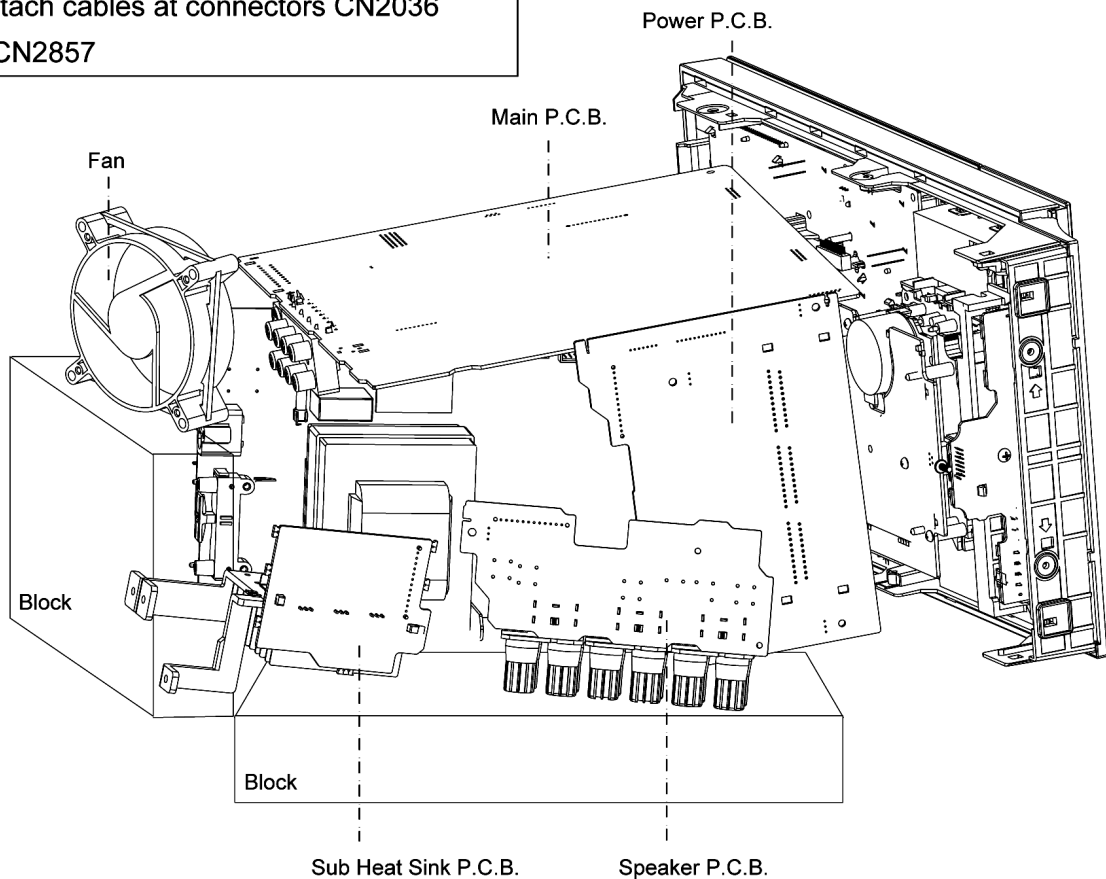
5. Disassembly of Power P.C.B. & Speaker P.C.B.

Detach cable at connector CN5950

Remove 3 screws on transformer bracket

Remove 3 screws on Power P.C.B.

Remove 1 screw on Speaker P.C.B.



11.5. Checking and Repairing of Panel P.C.B.

1. Disassembly of Top Cabinet

Remove 4 screws each side

Remove 7 screws at rear panel

2. Disassembly of Rear Block

Remove Top Cover

Remove 14 screws (For GCS/GS)

Remove 12 screws (For GC/GN)

Detach cables at connectors CN2810 (fan)
& H5102

3. Disassembly of DVD Changer Unit

Remove Top Cover

Detach cables at connectors CN2036
& CN2857

4. Disassembly of Front Panel Block

Detach cables at connectors CN2803,
CN2861 & CN5951.

Release 2 claws

5. Disassembly of Power P.C.B. & Speaker P.C.B.

Detach cable at connector CN5950

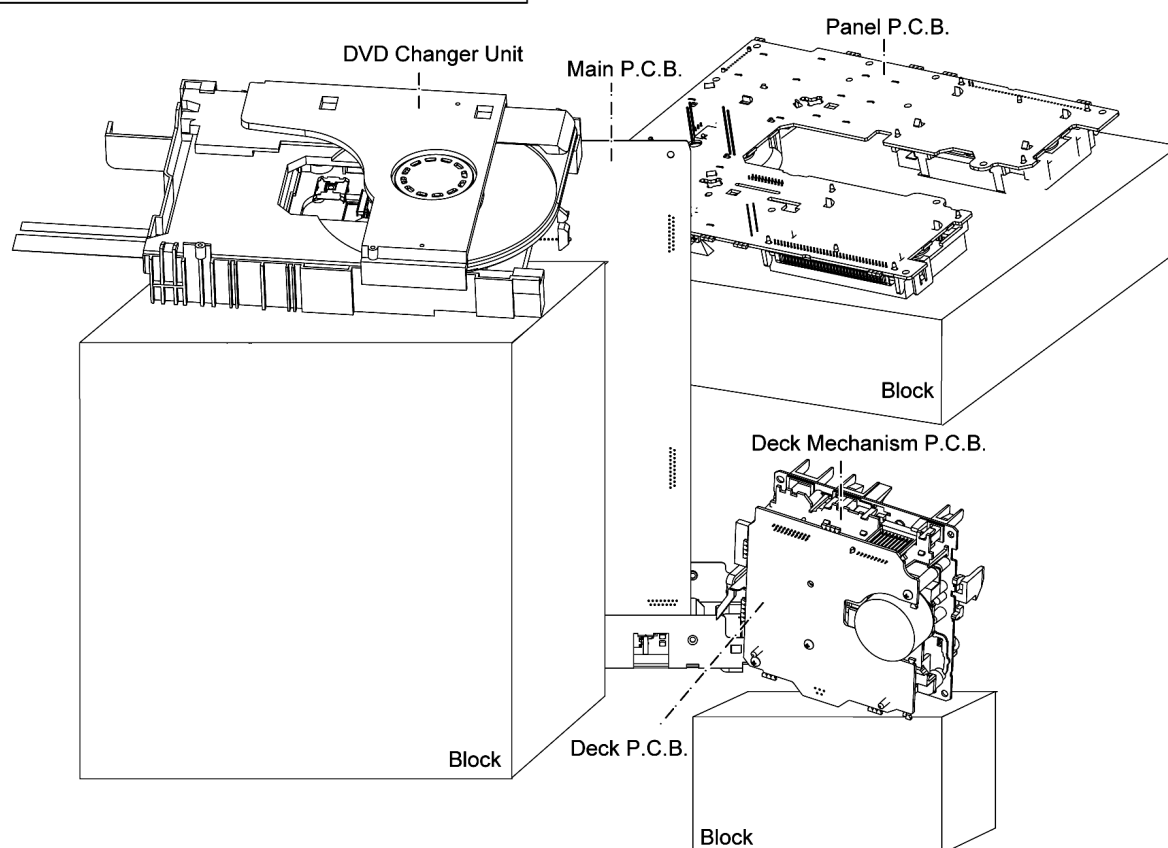
Remove 3 screws on transformer bracket

Remove 3 screws on Power P.C.B.

Remove 1 screw on Speaker P.C.B.

6. Disassembly of Deck P.C.B.

Remove 2 screws



12 Procedure for Checking Operation of Individual Parts of Deck Mechanism Unit

12.1. Operation Check with Cassette Tape

1. Pull up the EJECT lever using a rubber band. (Fig. 6)
2. Supply DC5V to MOTOR. (→ MOTOR rotates.) (Fig. 5)
3. Insert a cassette tape to the unit.
4. Supply DC9V to the plunger, and turn the power ON and OFF. (→ Power +PL, -PL) (Fig. 5)
 - a. FWD PLAY: Supply the plunger power in a flash. (ON: approx. 5msec)
 - b. FWD FF: Supply the plunger power in a flash at PLAY mode. (ON: approx. 5msec)
 - c. STOP: Supply the plunger power in a flash at FWD FF mode. (ON: approx. 5msec)
 - d. REV PLAY: Supply the plunger power in a normal timing at STOP mode. (ON: approx. 200msec)
 - e. REV REW: Supply the plunger power in a flash at REV PLAY mode. (ON: approx. 50msec)
 - f. STOP: Supply the plunger power in a flash at FF mode. (ON: approx. 50msec)

Repeat the operation (→ FWD PLAY)

(Note) Other operation may start if a timing of supplying the plunger power is missed.

12.1.1. Connection Status between Mechanism and Power Supply (Motor, Plunger)

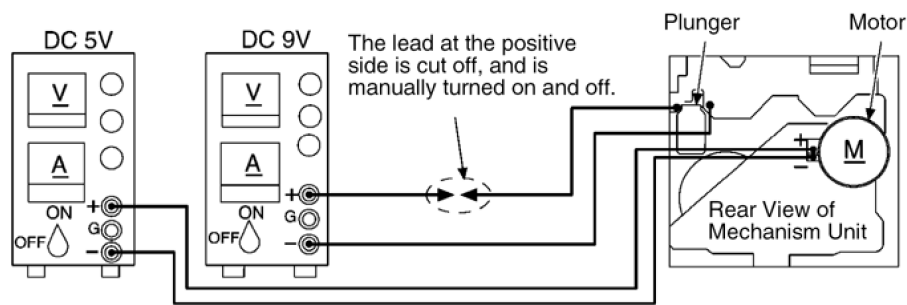


Fig. 5

12.1.2. Operative Parts of Deck Mechanism Unit (EJECT lever fitted with rubber band, Plunger/Rib operation)

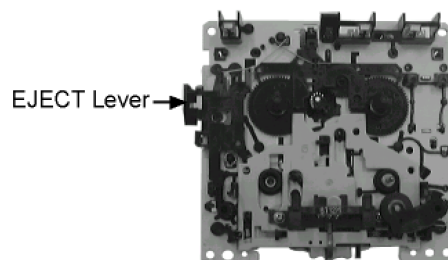


Fig. 6

12.2. Operation Check without Cassette Tape

1. Pull up the EJECT lever using a rubber band. (Fig. 6)
2. Supply DC5V to MOTOR. (→ MOTOR rotates.)
3. Lift up the mechanism unit's plunger/rib with the tip of a negative screwdriver, and operate the unit in the same timing as supplying the power. (Fig. 7)

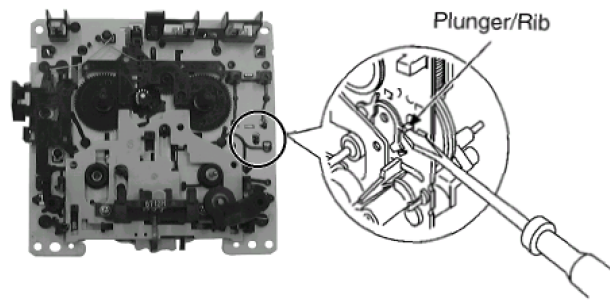


Fig. 7

13 Measurement And Adjustments

13.1. Cassette Deck Section

13.1.1. Requirements

- Test tape (QZZCFM) (QZZCWAT)
- Normal blank cassette tape (QZZCRA)
- Digital frequency counter
- Oscilloscope
- Electrical voltmeter
- Headphone jack output jig (Fig 8)

13.1.2. Setting of Unit

- VOLUME: MAX

13.1.3. Preparations

1. Apply under [10. Assembling and Disassembling].
2. Remove 4 screws from the mechanism unit to disassemble. under [10.13 Disassembly of Deck Mechanism Unit].
3. Connect the headphone jack output jig (Fig 8) to headphone jack.

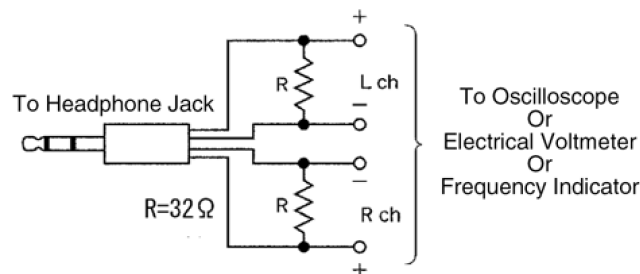


Fig. 8

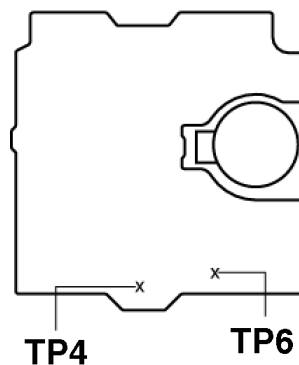


Fig. 9

13.1.4. Tape Speed Adjustment

- Normal speed adjustment (only during forward playback)
(Product reference value: $3,000 \pm 90\text{Hz}$)
1. Connect a frequency indicator. (Fig 10)
 2. Playback the middle portion of the test tape (QZZCWAT).
 3. Adjust the motor screw so that the following output level is produced. (Fig 11)
Adjustment Range: $3,000 \pm 90\text{Hz}$ (a constant speed)

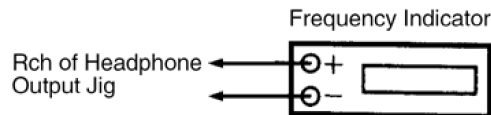


Fig. 10

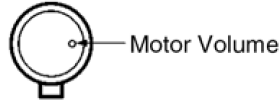


Fig. 11

13.1.5. Bias Voltage Check

1. Connect an electrical voltmeter. (Fig 12) (Fig 9 for location of test points)
2. Set the function to "TAPE" position.
3. Insert a normal blank cassette tape (QZZCRA).
4. While pressing and holding down [REC] button, press [TAPE] button to pause the recording mode. (Repeat pressing the buttons till the recording pause mode is activated.)
5. Check that the output level is within the standard range.

Standard Range: $16 \pm 3\text{mV}$

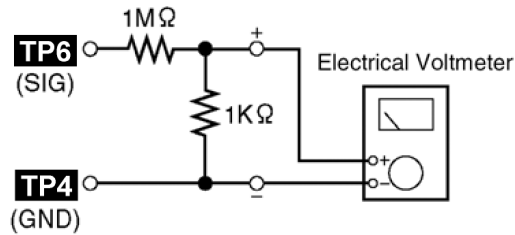


Fig. 12

13.1.6. Bias Frequency Check

1. Connect a digital frequency counter (Fig 13).
2. Set the function to "TAPE" position.
3. Insert a normal blank cassette tape (QZZCRA) and press "REC" mode on main unit.
4. Check that the output frequency is within the standard range.

Standard Value: $98 \pm 8\text{ kHz}$

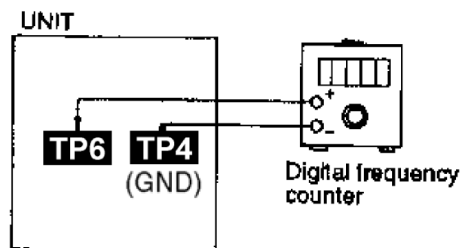


Fig. 13

14 Voltage and Waveform Chart

Note:

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

14.1. DVD Module P.C.B.

Ref No.	IC3901																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	-	-	-	-	1.3	1.4	0	2.9	3.4	0	0	0.2	3.4	0	0	0	3.4	0	0	0
Ref No.	IC3901																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	3.4	0	0	0	3.4	1.3	0	3.4	-	-	-	1.6	3.4	0.9	0.1	0.1	0.9	0	0	3.4
Ref No.	IC3901																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	1.7	1.3	1.7	0	1.7	0	1.3	0	0	0	0	3.4	0	0	1.3	0	0	0	0	0
Ref No.	IC3901																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD PLAY	0	0	0	-	-	0	0	0	0	3.4	0	0	0	0	1.3	0	0	0	0	0
Ref No.	IC3901																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
CD PLAY	0	0	0	3.4	1.3	0	1.0	0.7	0.8	2.3	0	1.3	1.3	1.8	1.2	-	-	-	0	3.4
Ref No.	IC3901																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
CD PLAY	0	1.3	0	0	0	3.4	3.4	3.4	1.3	0	1.8	0	3.3	3.2	3.4	1.3	1.6	0	0	3.4
Ref No.	IC3901																			
MODE	121	122	123	124	125	126	127	128												
CD PLAY	3.4	0	1.3	3.4	0	1.6	-	-												
Ref No.	IC3952																			
MODE	1	2	3	4	5															
CD PLAY	8.5	0	1.3	5.1	8.9															
Ref No.	IC8001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0.1	0	0.1	0.1	0	3.3	0.1	0.1	1	0.6	0.8	2.3	1.3	1.3	0	3.3	1.8	1.2	0	1.2
Ref No.	IC8001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	0.7	1.1	0.8	16.5	1.1	1.6	2.3	1.3	1.7	1.2	3.3	0	3.3	1.6	0.6	1.6	1.5	1.6	1.7	1.7
Ref No.	IC8001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	2	2	0	1.2	0.1	3.2	3.3	3.3	3.3	1.6	0	3.3	2.7	2.7	3	3.3	3.3	2.9	0	1.7
Ref No.	IC8001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD PLAY	1.6	0.1	0.1	0.9	0.1	1.9	1.6	0	3.3	3.3	0.1	3.3	3.3	0.1	3.3	0.1	0.1	0.1	3.3	0.1
Ref No.	IC8001																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
CD PLAY	0.1	0	1.2	3.3	0.9	2.4	0.1	1.9	0.1	0.3	1.8	3.3	1.5	1.5	1.8	1.8	1.7	1.7	1.7	1.7
Ref No.	IC8001																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
CD PLAY	0	0	0.4	0.1	0.2	1.9	3.3	0.1	2.2	1.7	2.6	2.6	2.6	2.6	2.7	2.7	2.4	2.5	2.5	2.5
Ref No.	IC8001																			
MODE	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
CD PLAY	1.9	1.9	1.7	1.7	0.1	1.7	1.8	3.4	0.9	0.9	0.4	3.3	2.4	1	1	2.4	0	0.4	0.9	0
Ref No.	IC8001																			
MODE	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
CD PLAY	3.4	3.4	0	0.8	0	0.8	3.4	1.6	1.7	1.7	0.9	1.7	0	3.4	-	1.6	0	-	-	-
Ref No.	IC8001																			
MODE	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180
CD PLAY	2.8	3.1	2.7	2.9	0	3.2	3	2.9	3.0	3.1	2.9	2.9	0	3.3	3.2	3.0	2.9	2.9	2.6	2.6
Ref No.	IC8001																			
MODE	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200
CD PLAY	3.3	0	1.6	3.3	1.6	0	1.3	3.3	3.3	3.3	3.3	0.1	1.5	0.1	0	3.2	1.5	0	0	1.5
Ref No.	IC8001																			
MODE	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216				
CD PLAY	0.1	1.5	0.1	0	3.1	1.5	0.1	1.5	1.3	0	1.2	2.6	2.6	2.8	3.2	3.2				
Ref No.	IC8051																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	3.3	2.9	3.3	3.1	3.0	0.1	3.1	3.3	3.3	3	3	0	2.9	3.3	2.6	3.3	3.2	3.2	3.1	1.8
Ref No.	IC8051																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	1.6	0.1	0.1	0.2	0.2	1.4	3.3	0	1.6	1.6	1.7	1.6	0.1	0.1	0.1	-	3.3	1.6	2.6	-
Ref No.	IC8051																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54						
CD PLAY	0	2.9	3.3	3.1	3	0	2.9	3.2	3.3	2.8	2.8	0	3.0	0						
Ref No.	IC8111																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	3.2	-	0	-	4.6	-	-	5												
Ref No.	IC8151																			
MODE	1	2	3	4	5															
CD PLAY	2.5	2.5	0	1.3	0.8															

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Ref No.	IC8251																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	1.7	1.7	1.7	2.2	2.2	1.8	0	5.1	3.3	0	2.4	2.8	2.6	2.6	4.1	4.3	4.8	3.7	0	3.3
Ref No.	IC8251																			
MODE	21	22	23	24	25	26	27	28	29	30										
CD PLAY	8.9	8.8	1.7	1.7	1.7	1.7	3.3	5.1	0	0										
Ref No.	IC8421																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	3.3	2.9	3.3	1.6	0.9	1.7	1.7	5.2	0	0.9	0.1	0.1	0	2.5	2.5	5.2	0	2.5	2.5
Ref No.	IC8421																			
MODE	21	22	23	24	25	26	27	28												
CD PLAY	2.5	2.5	5.2	0	2.6	2.5	2.6	5.1												
Ref No.	IC8601																			
MODE	1	2	3	4																
CD PLAY	1.2	3.3	0	0																
Ref No.	IC8606																			
MODE	1	2	3	4	5															
CD PLAY	3.3	3.3	0	0	-															
Ref No.	IC8611																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	0	0	0	0	3.2	3.3	0	3.3												
Ref No.	IC8651																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	1.1	1.0	1.8	1.0	1.7	2.3	1.3	1.8	1.2	0.1	3.3	3.3	3.3	3.3	1.6	1.6	0.6	1.2	1.5	1.7
Ref No.	IC8651																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	1.8	1.8	2	1.9	0	2	0	2.5	1.7	1.1	0.8	1.6	1.0	1.6	2.3	1.4	3.3	1.7	1.1	1.4
Ref No.	IC8651																			
MODE	41	42	43	44	45	46	47	48												
CD PLAY	1.6	1.7	1.7	2	1.9	0	3.3	0.8												
Ref No.	IC8691					IC8695					IC8701									
MODE	1	2	3	4	5				1	2	3	4	5		1	2	3	4	5	
CD PLAY	3	3	0	4.6	5.1				2.7	2.7	0	4.2	5.1		-	1.5	0	1.7	3.3	
Ref No.	IC8901																			
MODE	1	2	3	4	5															
CD PLAY	3.3	3.3	0	3.4	3.4															
Ref No.	IC9001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0.1	2.7	1.8	2	1.7	1.7	1.6	1.5	1.1	0	2	1.1	1.5	1.7	1.8	1.8	2	1.9	2.3	3.3
Ref No.	IC9002																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0.1	1.7	1.3	2.2	1.7	1.0	1.6	0.8	1.1	0	2	1	0.9	1.8	1	1.7	2.3	1.3	1.8	3.3
Ref No.	IC9003																			
MODE	1	2	3	4	5	6														
CD PLAY	1.6	0.1	1.6	1.7	3.3	1.6														
Ref No.	IC9005																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	0.1	5.1	5.1	3.3	2.2	3.3	0.1	3.4												
Ref No.	Q3901					Q3902					Q3903					Q3941				
MODE	E	C	B			E	C	B			E	C	B			E	C	B		
CD PLAY	0.1	4.2	-0.5			3.4	5.1	3.4			3.4	5.1	3.4			3.6	3.5	3.6	0	3.5
Ref No.	Q3943					Q8321					Q8325					Q8331				
MODE	E	C	B			E	C	B			E	C	B			E	C	B		
CD PLAY	4	5.6	4.3			1.1	0	0.4			1.5	0	0.9			1.1	0	0.4		
Ref No.	Q8341					Q8551					Q8552					Q8561				
MODE	E	C	B			E	C	B			E	C	B			E	C	B		
CD PLAY	1.5	0	0.9			0.1	5.1	0.1			5.1	0	5.1			1.3	3.9	1.9		
Ref No.	QR8111					QR8420					QR8571									
MODE	1	2	3	4	5	6			E	C	B			E	C	B				
CD PLAY	0	0	1.3	0.1	0.1	4.8			0	4.3	0.1			3.4	3.3	0.1				

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14.2. Main P.C.B.

Ref No.	IC2101																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	-0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
STANDBY	0	-	-	0.1	0	0	0.1	0.2	0.1	-0.1	0	0	0	0	0	0	0	0	0	0
Ref No.	IC2101																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
STANDBY	0	0	0	0	0	0	0	0	0.1	-	0	0	0	0	0	0	0	0	0	0
Ref No.	IC2101																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	0	-	0	0	0	-0.1	-0.1	-0.1	0	1.4	0	-0.2	0	0	-	0	-	-	-	-0.2
STANDBY	0	-	0	0	0	0	0	-0.1	-0.1	0	-0.1	0	0	0	0.1	0	0.1	0.1	0.1	0
Ref No.	IC2101																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD PLAY	0	4.9	0	4.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
STANDBY	0	0	0	0.1	0	0	-	0	0	-	0	0	-	0	-0.6	0	0	0	0	0
Ref No.	IC2101																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
CD PLAY	0	0	-6.7	7.0	-	-	0	0	0	-	0	-	0	0	0	0	0	0	-0.1	0
STANDBY	0	0	0.1	-0.7	0.1	0.1	0	0	0	0	0	0	0	0	0	-0.8	-0.8	-0.7	0	-0.8
Ref No.	IC2103																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
CD PLAY	0	-0.1	0	7.0	0	0	-0.2	3.4	1.0	1.0	-6.9	0	0	-0.3						
STANDBY	0.5	0	0	7.0	0	0	0	0	0	0	-6.9	0	0	0						
Ref No.	IC2231										IC2340									
MODE	1	2	3	4	5	6	7	8			1	2	3	4	5	6	7	8		
CD PLAY	0	0	0	-6.9	0	0	0	7.0			0	0	0	-6.7	0	0	0	7.0		
STANDBY	0	0	0	-6.9	0	0	0	7.0			0	0	0	-6.9	0	0	0	7.0		
Ref No.	IC2401																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	5.0	0	0	2.2	4.9	1.7	0	1.7	2.2	0	1.7	0	2.1	4.9	2.1	5.0	2.2	2.2	0	2.2
STANDBY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1
Ref No.	IC2401																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32								
CD PLAY	2.2	0	1.7	1.7	0	1.7	1.7	0	1.8	1.8	0	1.3								
STANDBY	0.1	0	0.1	0.1	0	0.1	0.1	0	0.1	0.1	0	0.1								
Ref No.	IC2501																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
CD PLAY	0	0	0	7.0	0	0	0	0	0	0	-6.9	0	0	0						
STANDBY	0	0	0	7.0	0	0	0	0	0	0	-6.9	0	0	0						
Ref No.	IC2502																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
CD PLAY	-0.2	0	0	0	0	0	-6.9	0	0	0	0	0	0	0	0	7.0				
STANDBY	0	0	0	0	0	0	-6.9	0	0	0	0	0	0	0	0	7.0				
Ref No.	IC2600																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	4.8	0	4.8	4.8	0	0	0	0	0	0.9	0.6	4.8	2.4	0	2.4	4.8	4.8	4.8	2.7	5.4
STANDBY	0	0	0	0	0	0	0	0	0	1.8	0.6	5.1	2.5	0	2.4	5.1	5.1	5.0	2.8	5.6
Ref No.	IC2600																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	0	0	4.6	0	0	0	0	4.5	4.1	2.8	4.1	0	-	4.2	0	4.8	0	0	0	0
STANDBY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ref No.	IC2600																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	0	0	0	4.8	0	0	4.8	0	0	0	0	0	0	-	0	0	0	0	0	0
STANDBY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0
Ref No.	IC2600																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD PLAY	4.8	4.8	4.8	0	-	-	-	4.8	4.8	4.8	0	0.1	-	0	4.7	4.7	0	0	0	4.8
STANDBY	0	5.1	0	0	0	0	0	0	0.6	0	0	0	0	0	0	0	0	0	0	5.0
Ref No.	IC2600																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
CD PLAY	4.8	0	0	0	4.8	0	4.4	0	4.8	4.4	0	4.8	4.8	4.4	4.9	0	1.9	4.8	4.8	5.0
STANDBY	5.0	0	0	0	0	0	4.6	0	0	0	0	5.1	5.1	4.6	0	0	2.0	5.1	5.1	0
Ref No.	IC2652																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
CD PLAY	0	0	0	0	0	0	-6.9	0	0	0	0	0	0	0	0	7.0				
STANDBY	0	0	0	0	0	0	-6.9	0	0	0	0	0	0	0	0	7.0				

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Ref No.	Q2021				Q2022				Q2025				Q2041				Q2061			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0	0	-6.0		0	0	-6.0		0	-6.0	0		0	0	4.2		0	12.0	0	
STANDBY	0	0	-6.0		0	0	-6.0		0.09	-6.0	0		0	0.1	0		0	12.0	0	
Ref No.	Q2062				Q2221				Q2222				Q2234				Q2235			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0	12.1	0		0	0	-3.4		0	0	-3.4		0	0	0.7		4.9	4.9	0	
STANDBY	0	12.0	0		0	0	0.7		0	0	0.7		0	0	-1.5		0.02	-2.5	0	
Ref No.	Q2236				Q2237				Q2238				Q2263				Q2265			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0	0	-1.7		0	-1.7	0		0	0	0.1		0	0	5.1		0	0	0	
STANDBY	0	0	-2.5		0	-2.5	0		0	0	0.1		0	0.2	0		0	0.2	0	
Ref No.	Q2266				Q2267				Q2365				Q2366				Q2371			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0	0	0		0	0	0		0	0	-4.3		0.1	0	-4.2		0	-4.7	0	
STANDBY	0	0.2	0		0	0.2	0		0	0	0.7		0	0	0.7		2.7	2.7	0	
Ref No.	Q2413				Q2414				Q2415				Q2600				Q2620			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0	4.9	0		0	4.9	0		0	0	4.7		0	-4.7	0		-0.2	7.0	0	
STANDBY	0	0.1	0		0	0.1	0		0	0.1	0		0	-4.5	0		-0.7	7.0	-0.1	
Ref No.	Q2624				Q2631				Q2639				Q2642							
MODE	E	C	B		E	C	B		E	C	B		E	C	B					
CD PLAY	0	0	-4.7		-0.8	7.0	-0.1		0	0	-4.7		0	-4.7	0					
STANDBY	0	0	-4.7		-0.7	7.0	-0.1		0	0	0.7		2.7	2.7	0					
Ref No.	Q2704				Q2707				Q2708				Q2741				Q2754			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	-6.9	-19.0	-7.5		11.2	7.0	10.6		0	-7.5	-0.6		5.1	5.1	5.2		2.8	4.5	3.4	
STANDBY	-6.9	-19.2	-7.4		6.3	10.3	6.8		0	-7.5	-0.6		0	5.1	0		0	0.1	9.1	
Ref No.	Q2765				Q2771				Q2772				Q2784				Q2785			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	5.6	8.9	6.2		4.8	0	4.9		0	5.1	0		0	0	0.2		0	5.2	0	
STANDBY	5.6	9.0	6.2		0.1	0	0.1		0	5.1	0		0	0	0.2		0	5.1	0	
Ref No.	Q2786				Q2787				Q2802				Q2803				Q2804			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	12.1	0	12.1		0	12.1	0		0	0	3.8		5.2	5.1	4.4		0	5.2	0	
STANDBY	12.1	0	12.1		0	12.1	0		0	0	3.7		5.2	5.1	4.4		0	5.1	0	
Ref No.	Q2843				Q2845				Q2852				Q2853				Q2857			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0	-4.8	0		0	-3.4	0		0	0.1	0.1		0	5.8	0.1		0	0	5.0	
STANDBY	1.8	1.8	0		1.7	1.6	0		0	0	0.6		0	5.8	0		0	5.1	0	
Ref No.	Q2861				Q2862															
MODE	E	C	B		E	C	B													
CD PLAY	0	5.1	0		0	5.1	0													
STANDBY	0	5.1	0		0	5.1	0													

SA-NC9GC/GCS/GS/GN MAIN P.C.B. (2/2)

14.3. Panel P.C.B.

Ref No.	IC6501																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	1.9	1.9	1.9	1.8	1.9	1.8	1.8	0	0	1.9	2.0	4.9	2.4	0	2.3	4.8	4.8	1.8	1.9	1.8
STANDBY	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	-0.5	0.1	0.1	0	0.1	0	0.1	0	0	0.1	0.1	0.1
Ref No.	IC6501																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	1.8	1.9	1.8	1.9	1.9	1.9	4.3	-	4.4	1.9	0	0	4.1	3.2	0.3	1.9	3.5	0	0.5	4.8
STANDBY	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	4.2	4.3	0.1	0.1	0	0.1	0	0	-	0	0.1	0.1
Ref No.	IC6501																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	0	1.9	1.9	1.9	1.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
STANDBY	0.1	0.1	0.1	0.1	0.1	0.1	-	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Ref No.	IC6501																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD PLAY	0	4.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
STANDBY	0.1	0	0.1	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Ref No.	IC6501																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
CD PLAY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.8	4.8	1.9
STANDBY	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0.1	0	0	0.1
Ref No.	IC6601																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	4.8	4.8	0	0	2.8	1.9	-	4.1	3.2	0	0	0	4.9	-24.7	-4.9	-	-	-	-2.2	-24.9
STANDBY	0	0	-0.4	0.1	0	0	0.1	0	0.1	0	0	0	0	0	0	0	0	0	0	0
Ref No.	IC6601																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	-24.9	-21.6	-24.9	-24.9	-24.9	-24.9	-24.9	-24.9	-24.9	025.4	-25.2	-25.2	-25.2	-25.2	-25.2	-21.8	-21.9	-21.9	-21.9	-21.9
STANDBY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ref No.	IC6601																			
MODE	41	42	43	44																
CD PLAY	-21.9	-21.9	4.9	0																
STANDBY	0	0	0	0																
Ref No.	Q6401				Q6413				Q6551				Q6702				Q6881			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0	0.1	4.8		0	0	4.8		0	4.8	0		0	4.8	-2.5		0.1	49.2	0	
STANDBY	0	0	5.4		0	5.3	0		0	5.7	0		0	5.32	0		0	44.7	0	

SA-NC9GC/GCS/GS/GN

PANEL P.C.B.

14.4. Power P.C.B.

Ref No.	IC5200																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	3.0	0	0	27.7	0	-28.5	-20.2	28.0	77.6	65.9	-28.8	-16.4	-28.8	66.2	79.1	28.0	-28.5	-28.5	0	27.7
STANDBY	0.2	0	0	0	0	-0.2	-	0	-	0	-0.2	-	-0.2	0	-	0	-0.2	-0.2	0	0
Ref No.	IC5200																			
MODE	21	22	23																	
CD PLAY	0	0	5.4																	
STANDBY	0	0	0																	
Ref No.	IC5300																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	3.0	0	0	27.7	0	-28.5	-20.4	28.0	85.9	73.9	-28.7	-16.6	-28.7	61.5	73.3	28.0	-28.5	-28.5	0	27.7
STANDBY	0.2	0	0	0	0	-0.2	-	0	-	0	-0.2	-	-0.2	0	-	0	-0.2	-0.2	0	0
Ref No.	IC5300																			
MODE	21	22	23																	
CD PLAY	0	0	5.4																	
STANDBY	0	0	0																	
Ref No.	IC5400																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	3.0	0	0	27.7	0	-28.5	-20.4	28.0	79.5	66.9	-28.8	-16.1	-28.8	67.5	80.4	28.0	-28.5	-28.5	0	27.7
STANDBY	0.2	0	0	0	0	-0.2	-	0	-	0	-0.2	-	-0.2	0	-	0	-0.2	-0.2	0	0
Ref No.	IC5400																			
MODE	21	22	23																	
CD PLAY	0	0	5.5																	
STANDBY	0	0	0																	
Ref No.	IC5500																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
CD PLAY	0	5.1	4.8	0.1	2.9	2.7	0	2.9	2.8	2.8	2.4	0	5.1	5.1						
STANDBY	0	-	0.1	0.1	0.1	0.1	0	0.2	0.1	0.1	0.1	0.2	0.3	0.3						
Ref No.	Q5101				Q5102				Q5601				Q5602				Q5603			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0	4.8	-0.1		-0.1	4.8	0		0	5.5	0		0	5.4	0		5.6	5.6	4.9	
STANDBY	0	5.0	0		0	5.0	0		0	0	0		0	0	0		0.3	0	0.3	
Ref No.	Q5604				Q5621				Q5631				Q				Q			
MODE	E	C	B		E	C	B		E	C	B									
CD PLAY	0	0	0.7		0	5.6	0		5.2	0	3.6	0								
STANDBY	0	0.3	0		0	0	0		0	0	0									

SA-NC9GC/GCS/GS/GN POWER P.C.B.

14.5. Sub Heat Sink P.C.B.

Ref No.	Q5108				Q5109				Q5110				Q5111				Q5901			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		S	G	D	
CD PLAY	-36.0	-32.5	-35.4		-3.3	-11.9	-3.9		27.6	32.0	28.4		11.7	21.1	12.3		32.0	28.3	35.6	
STANDBY	-37.2	-33.9	-36.4		-3.3	-12.0	-3.9		27.5	31.8	28.2		11.5	19.6	12.1		31.8	28.2	36.6	
Ref No.	Q5902																			
MODE	S	G	D																	
CD PLAY	-35.9	-32.5	-28.8																	
STANDBY	-37.1	-33.9	-28.8																	

SA-NC9GC/GCS/GN/GC SUB HEAT SINK P.C.B.

14.6. Sub Panel P.C.B.

Ref No.	Q6902				Q6903				Q6907											
MODE	E	C	B		E	C	B		E	C	B									
CD PLAY	0.1	1.8	0.7		5.5	7.7	6.0		3.7	5.9	4.2									
STANDBY	0	0	0		0	0	0		0	0	0									

SA-NC9GC/GCS/GN/GS SUB PANEL P.C.B.

14.7. Transformer P.C.B.

Ref No.	Q5903				Q5904				Q5950				Q5951				Q5952			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0	5.1	0		0	5.1	0		6.2	6.8	11.2		-25.3	-52.4	-25.8		0	3.3	-0.4	
STANDBY	0	5.1	-0.1		-0.1	5.1	0		6.2	6.8	11.8		-25.2	-52.6	-25.7		0	3.4	-0.4	
Ref No.	Q5953				Q5984															
MODE	E	C	B		E	C	B													
CD PLAY	0	0.1	0.8		49.5	64.0	50.0													
STANDBY	0	0.1	0.8		49.1	65.1	49.8													

SA-NC9GC/GCS/GN/GS TRANSFORMER P.C.B.

14.8. Tray Loading P.C.B.

Ref No.	IC904																		
MODE	1	2	3	4	5	6	7	8	9										
CD PLAY	5.1	7.5	0.8	7.5	0	7.5	0.8	2.8	5.1										
STANDBY	5.1	7.6	0.6	7.6	0	7.6	0.6	2.8	5.1										

SA-NC9GC/GCS/GS/GN TRAY LOADING P.C.B.

14.9. Deck P.C.B. & Deck Mechanism P.C.B.

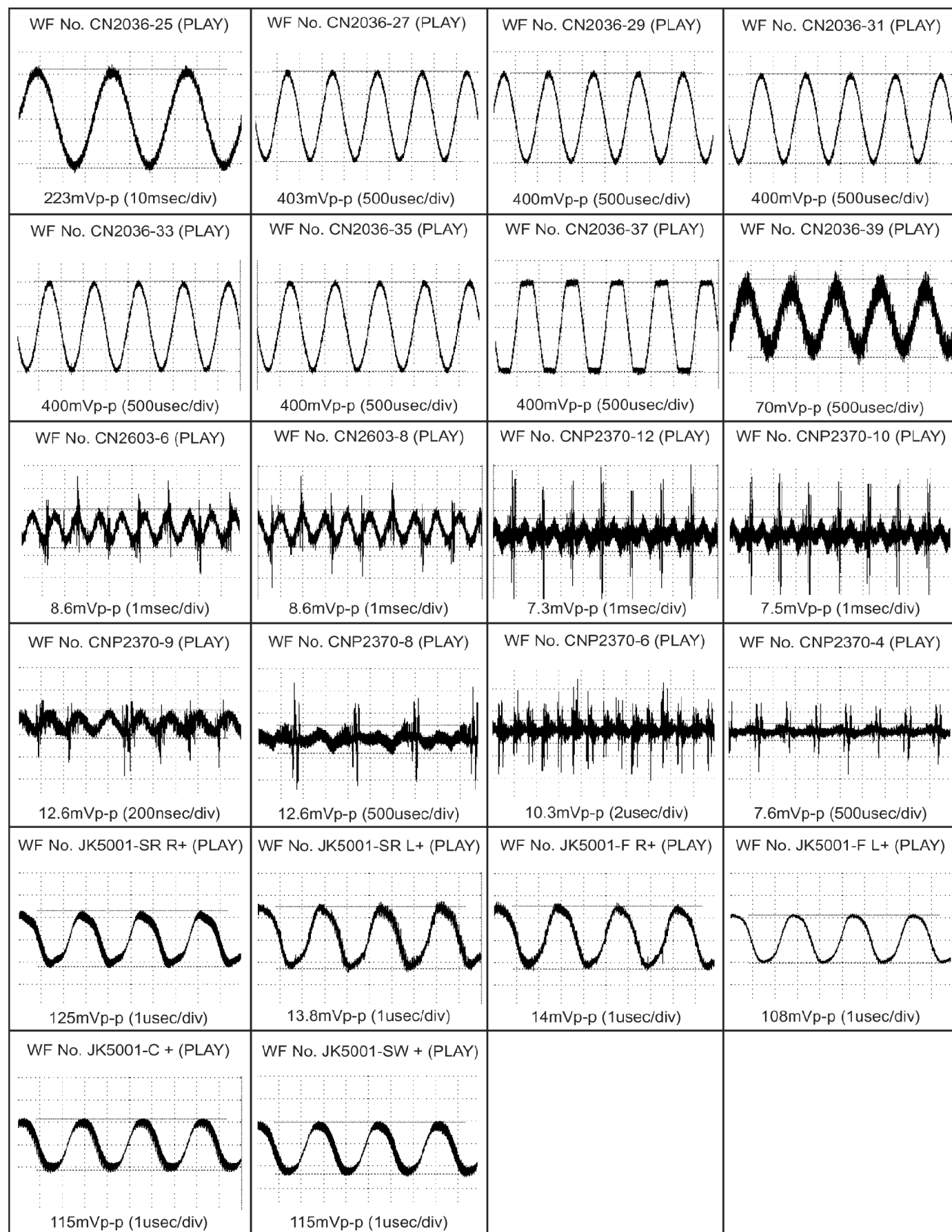
Ref No.	IC1000																			
MODE	1	2	3	4	5															
CD PLAY	6.7	0	0	0	0															
STANDBY	0.1	0	0	0	0															
Ref No.	IC1001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0.1	0.7	5.4	4.6	0	3.3	0	-	0.1	6.4	0	9.5	0	0	-	0	3.9	0.2	4.6	5.4
STANDBY	0	0.4	0.4	0.4	0	0.1	0	-	0	0.2	0	0.2	0	0	-	0	0.1	0.1	-	0.4
Ref No.	IC1001																			
MODE	21	22																		
CD PLAY	0.7	0.1																		
STANDBY	0.4	0																		
Ref No.	Q1101			Q1103			Q1201			Q1203			Q1302							
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B					
CD PLAY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
STANDBY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Ref No.	Q1303			Q1304			Q1306			Q1307			Q1309							
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B					
CD PLAY	0	6.7	0	6.7	0.1	6.7	0	0	0.6	0	4.8	0	0	9.6	0.1					
STANDBY	0	0.1	0	0.1	0	0.1	0	0	0	0	0	0	0	0.2	0					
Ref No.	Q1310			Q1312			Q1314			Q1317			Q							
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B					
CD PLAY	0	9.6	0.1	0	0.1	0	11.9	-0.9	11.9	0	0	0.1								
STANDBY	0	0.2	0	0	0	0	0	-0.4	0	0	0	0								

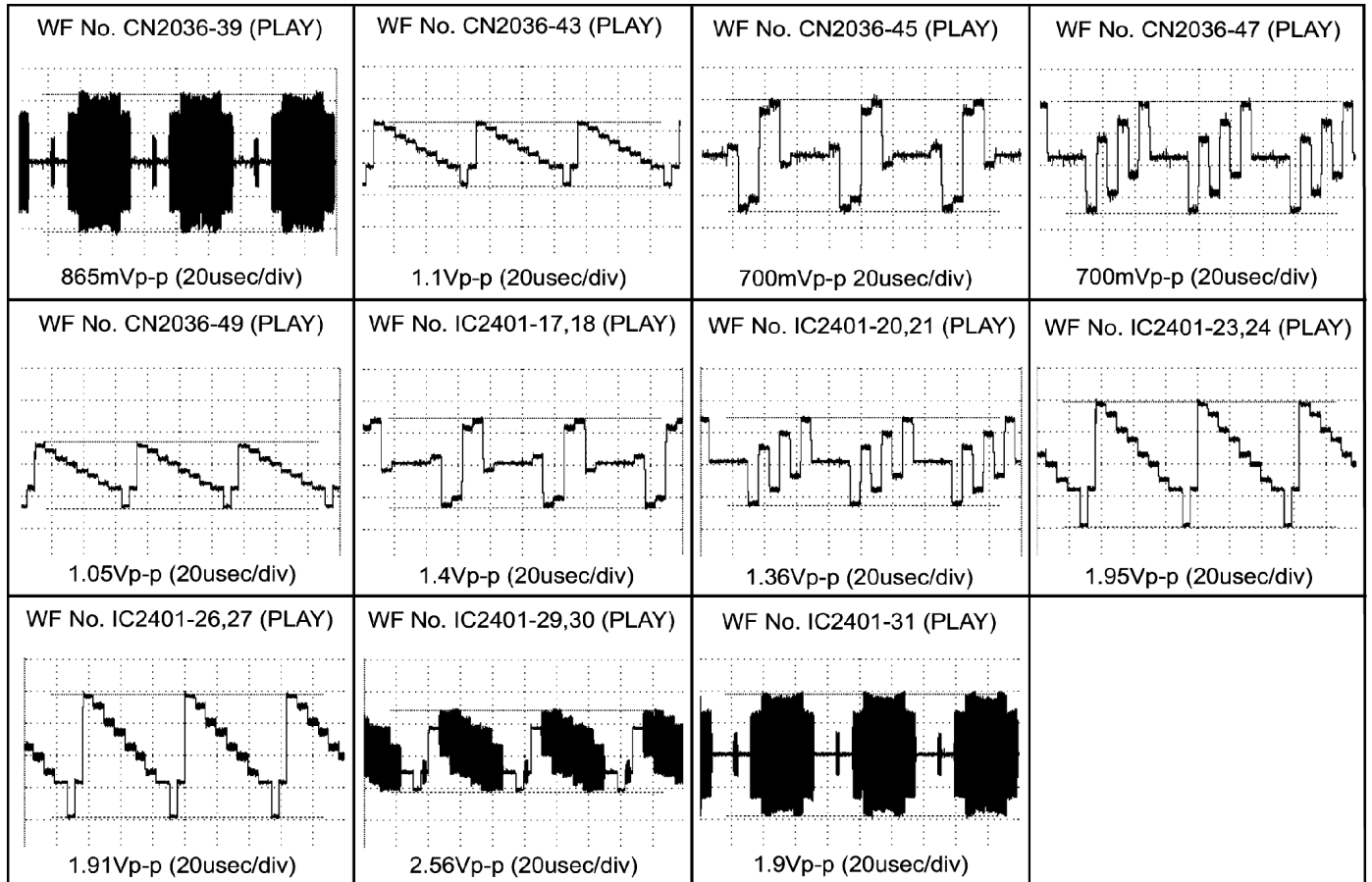
SA-NC9GC/GCS/GS/GN DECK P.C.BOARD

Ref No.	IC971																			
MODE	1	2	3	4																
CD PLAY	2.7	4.8	4.8	3.7																
STANDBY	0	0	0	0																

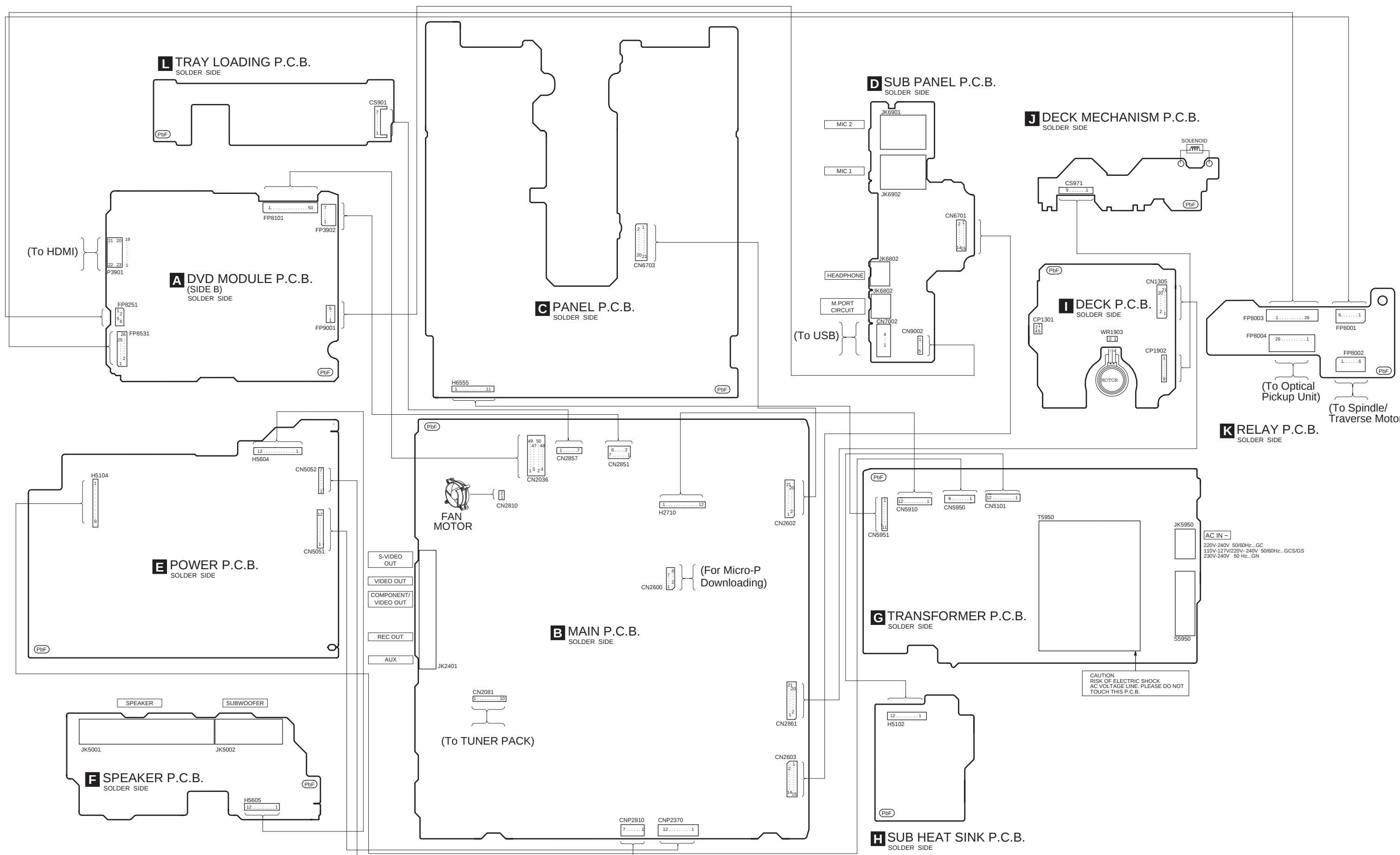
SA-NC9GC/GCS/GS/GN DECK MECHANISM P.C.BOARD

14.10. Waveform Chart



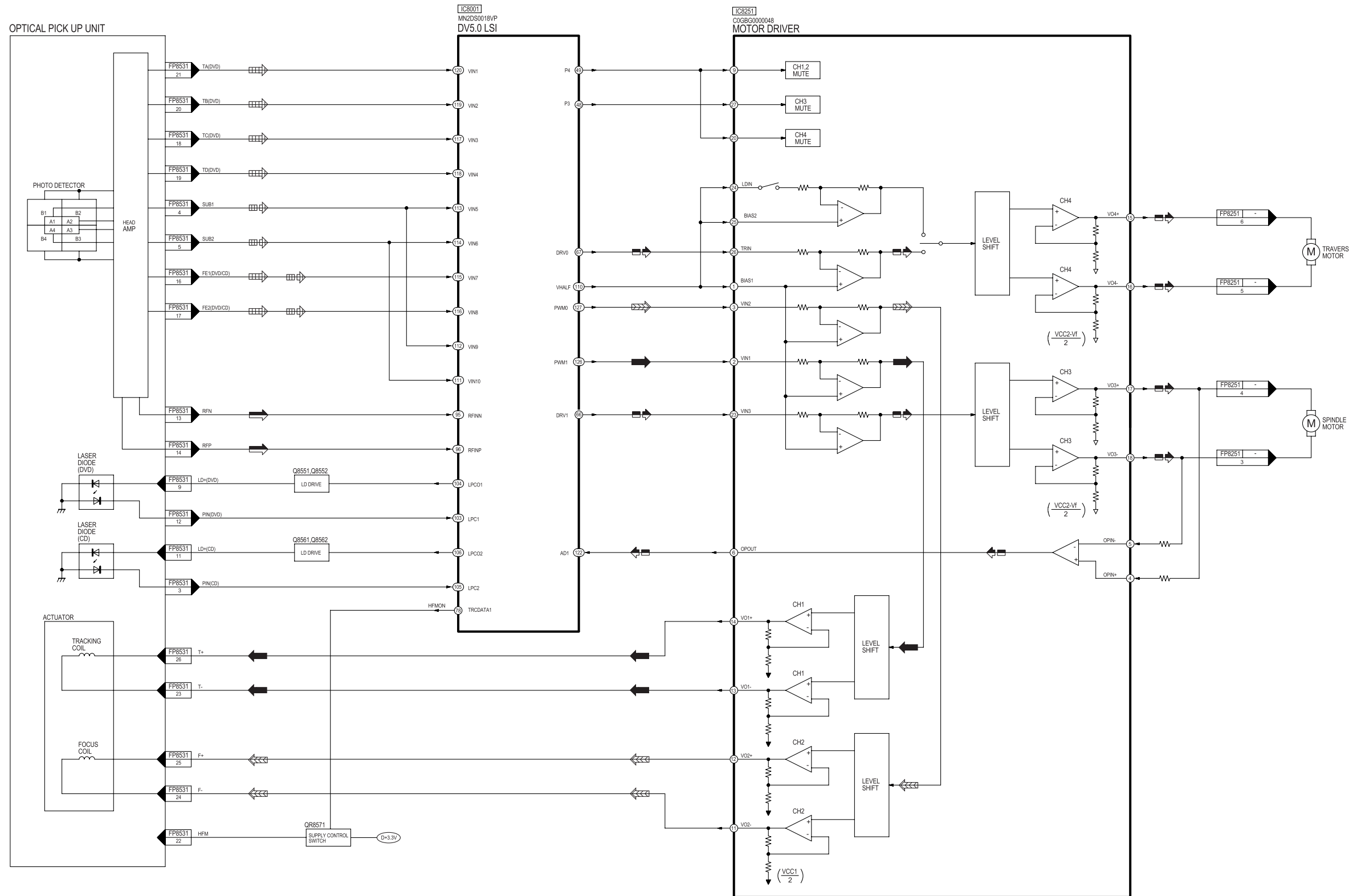


15 Wiring Connection Diagram

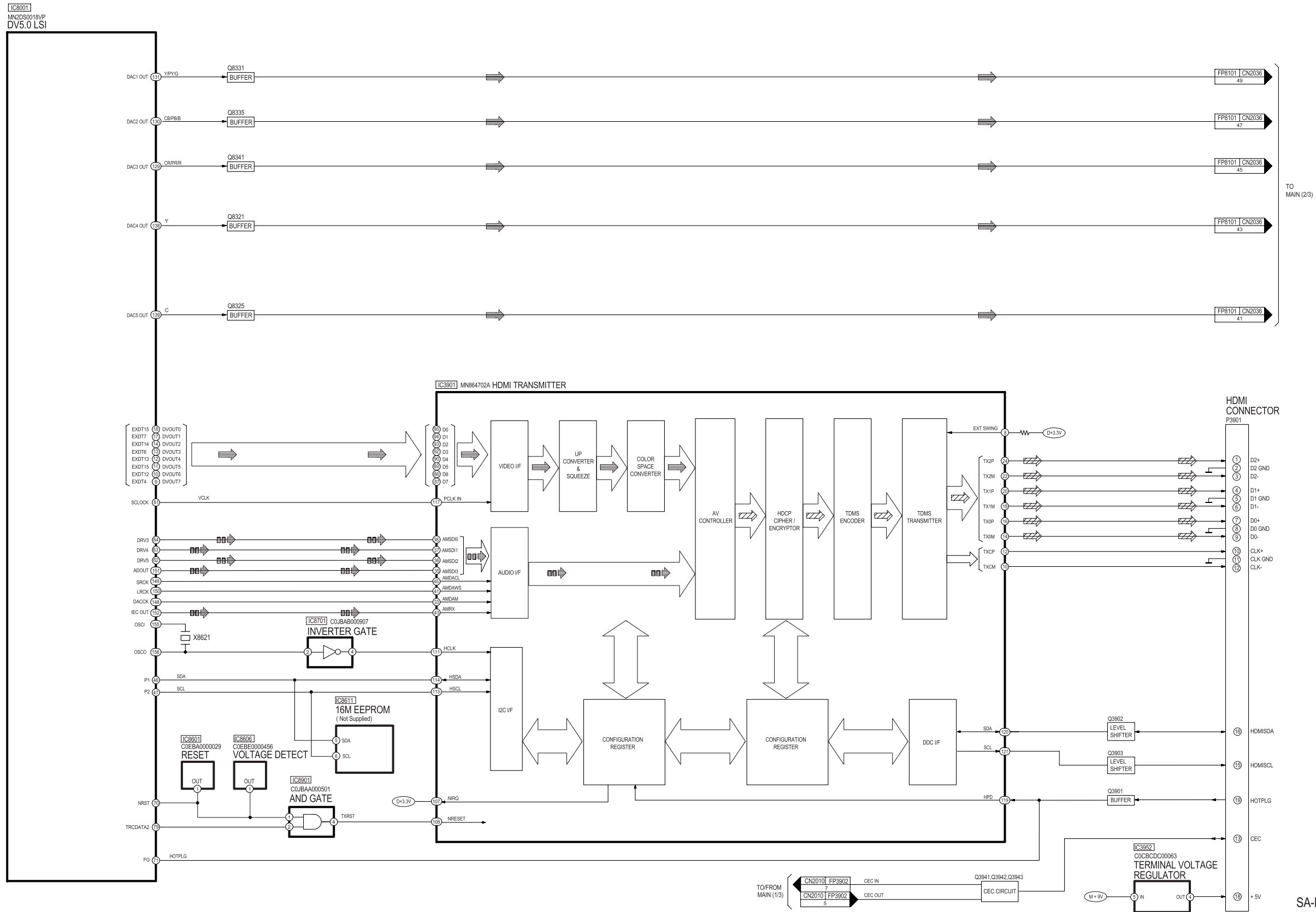


16 Block Diagram

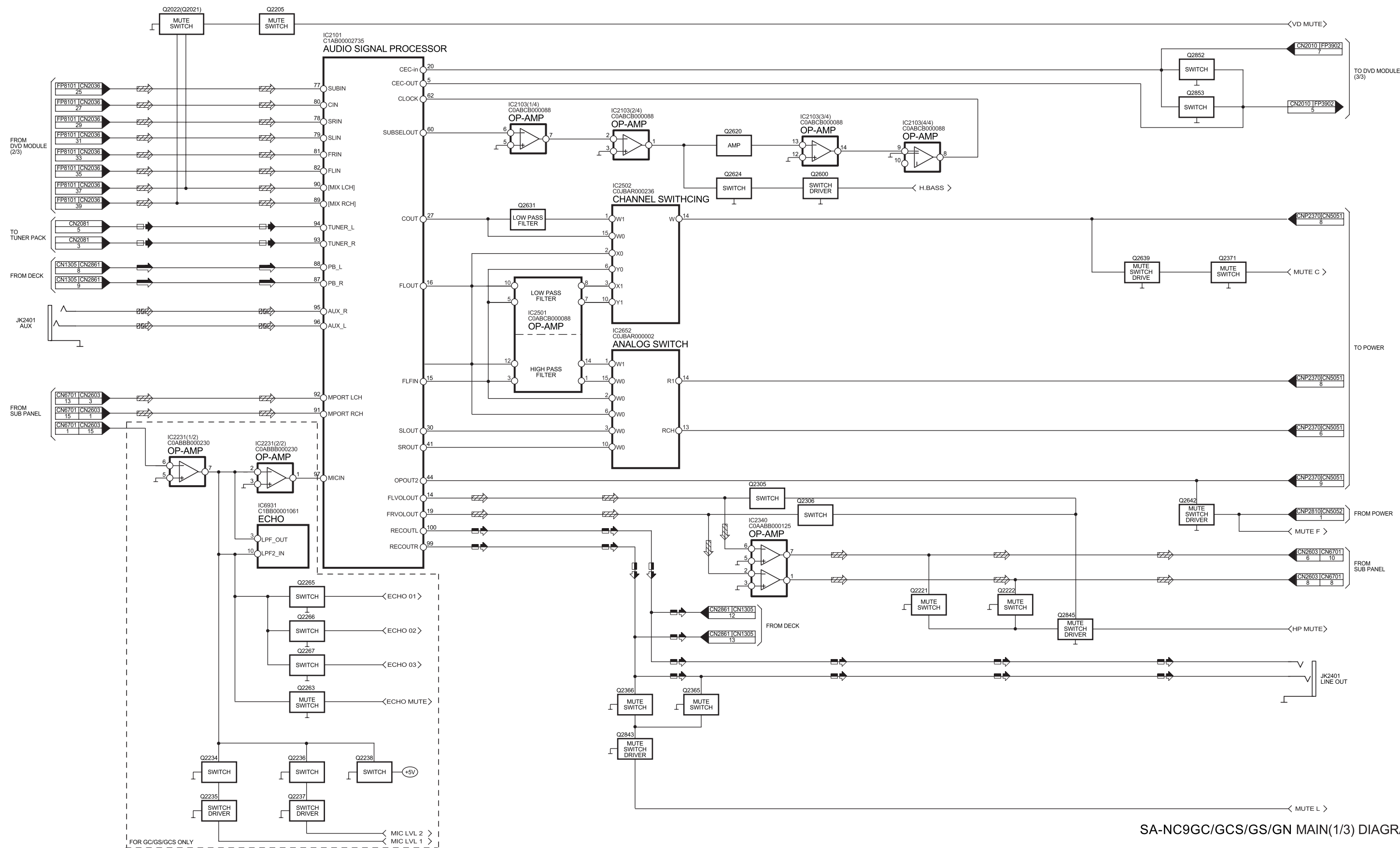
16.1. DVD

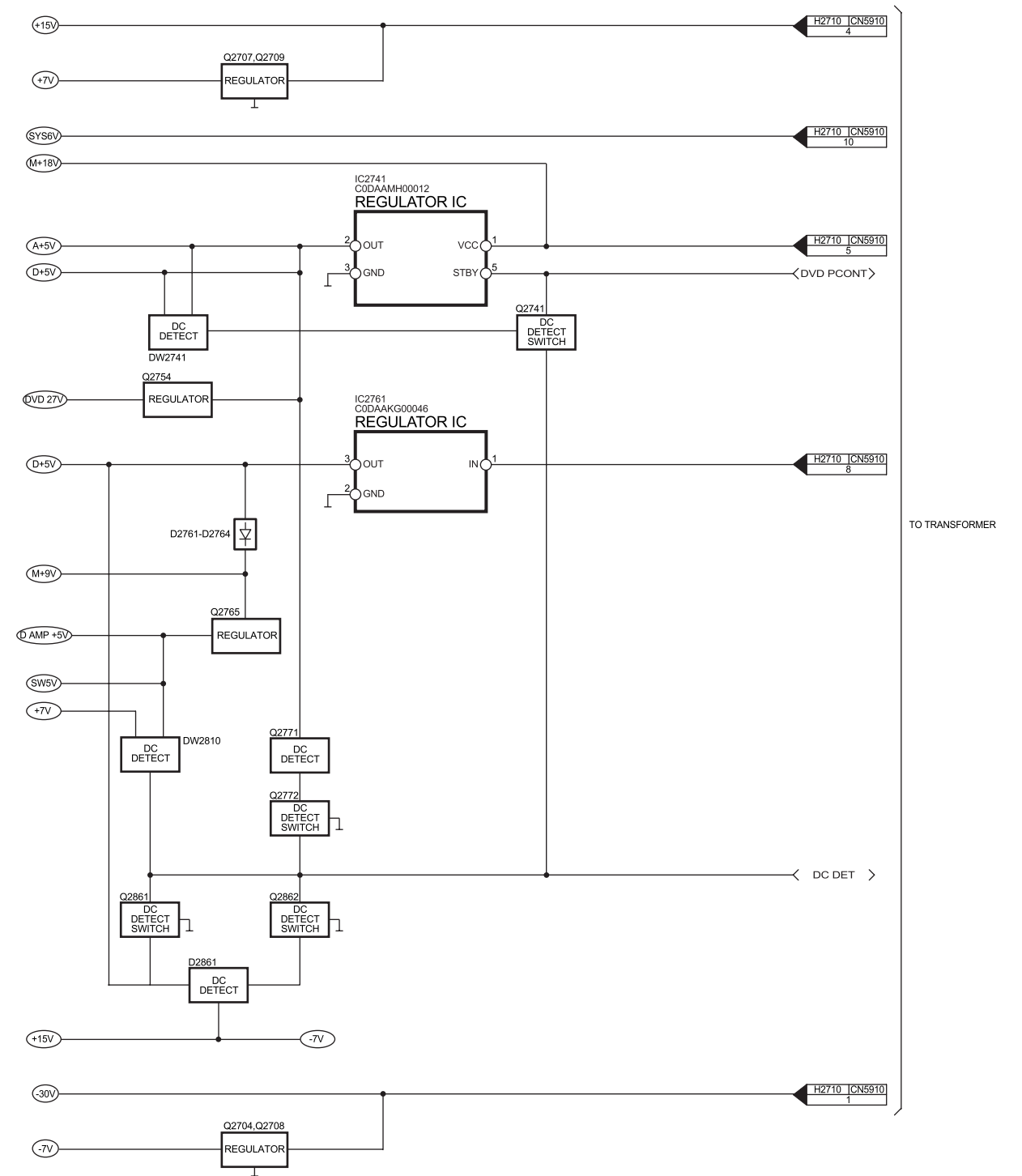
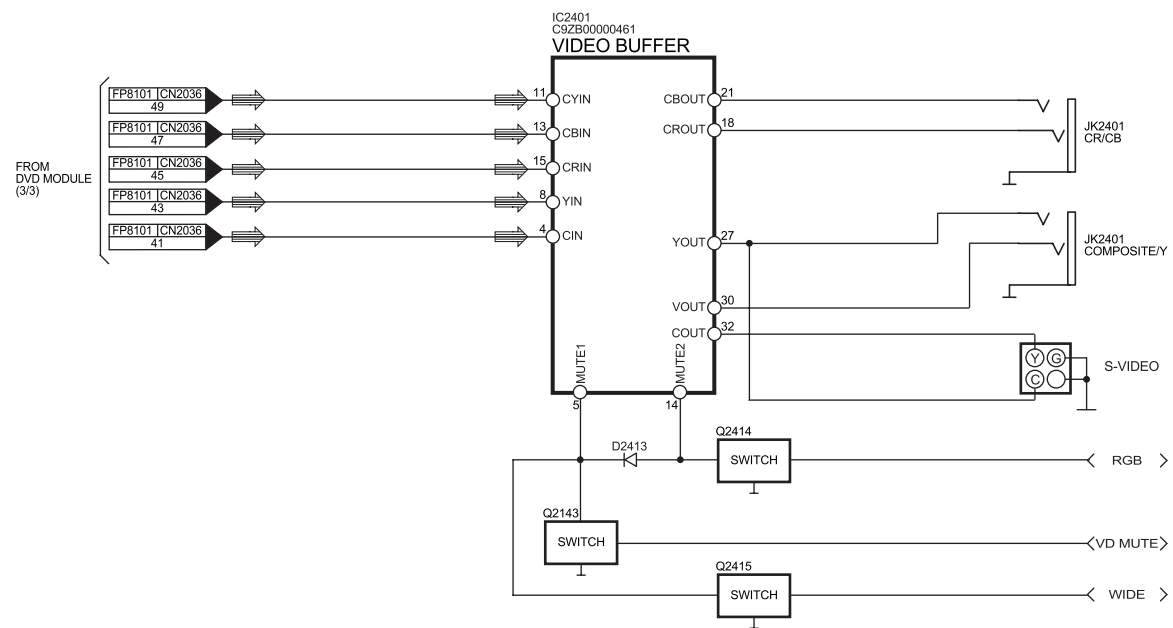




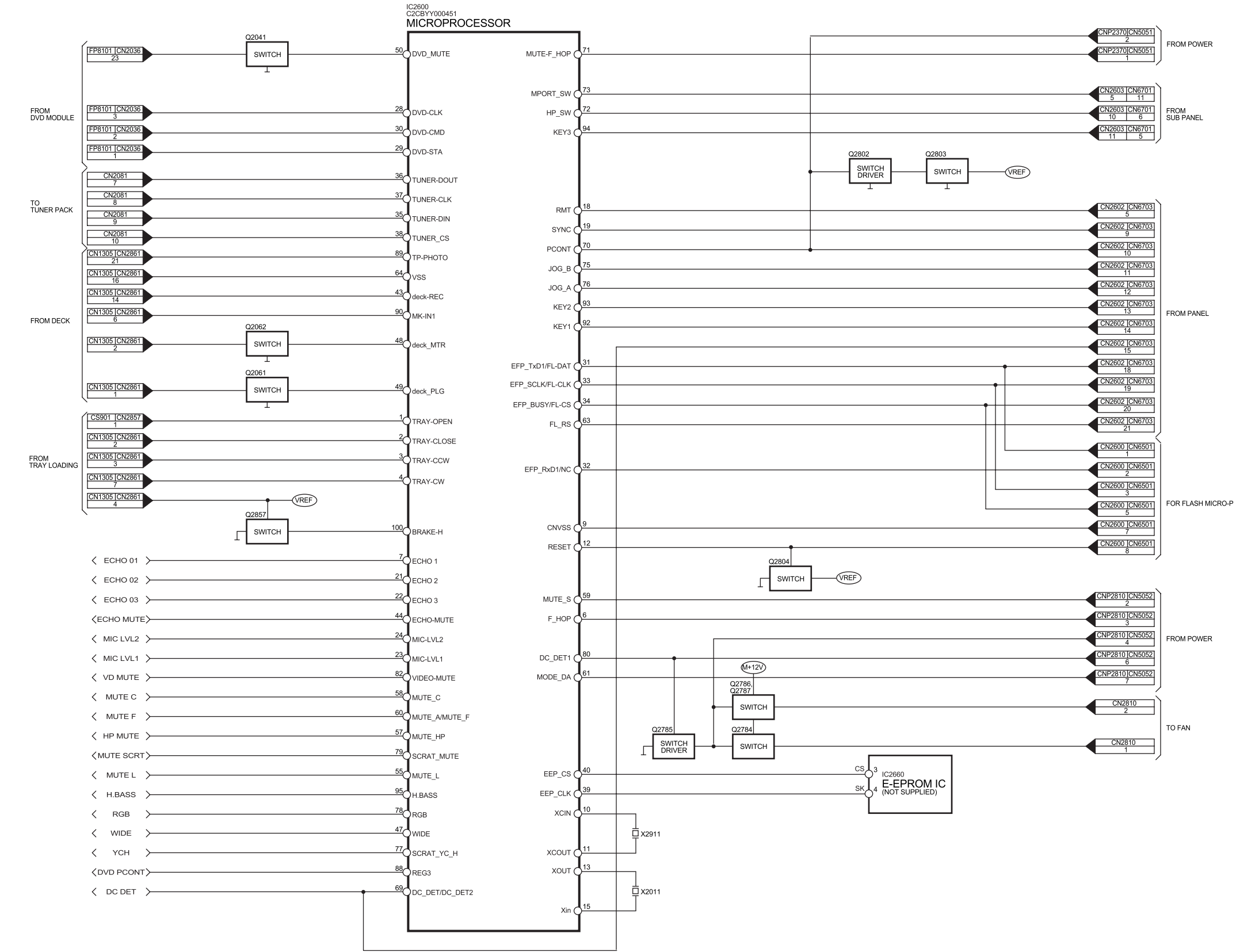


16.2. Main



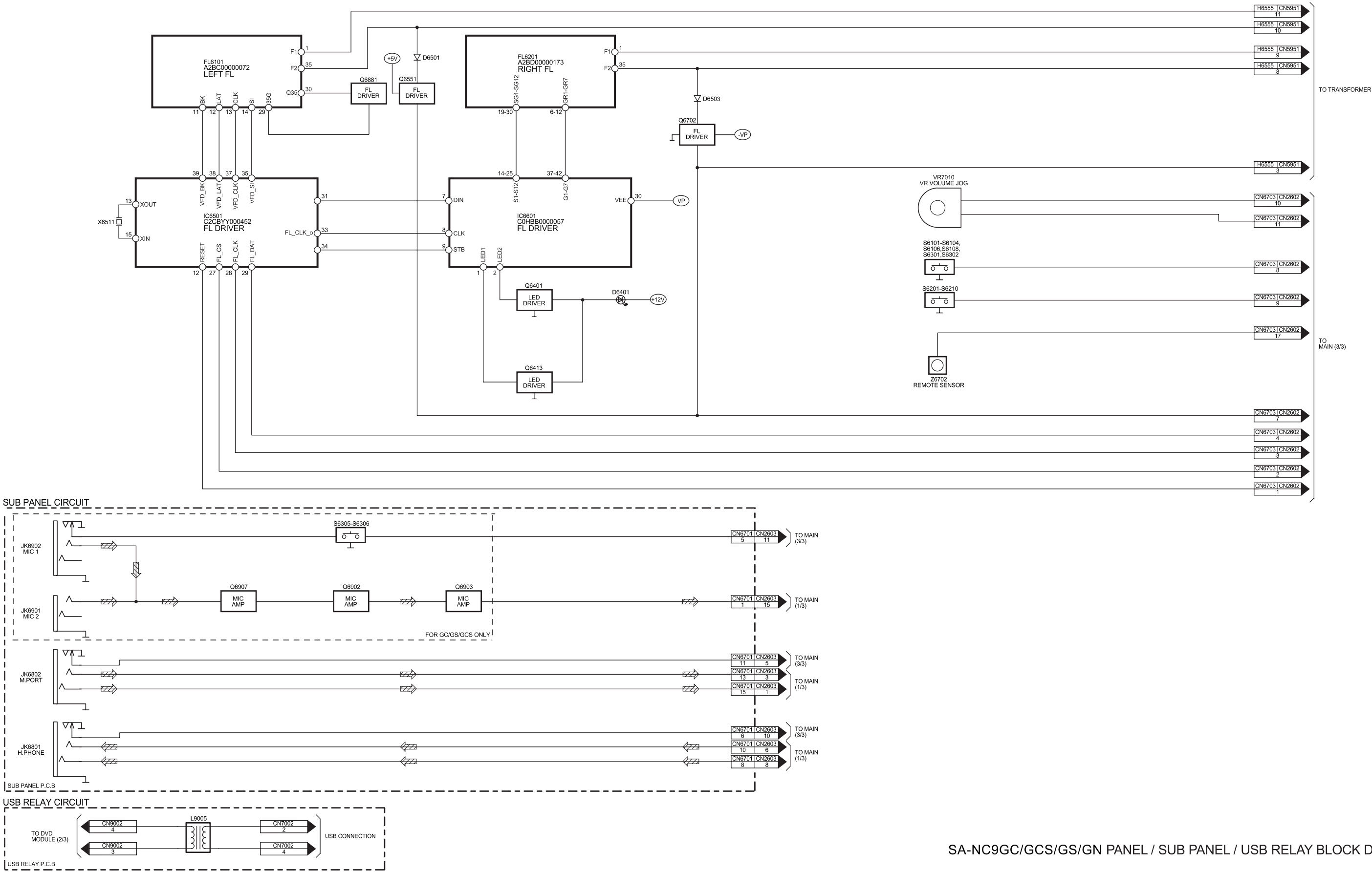


SA-NC9GC/GCS/GS/GN MAIN(2/3) DIAGRAM



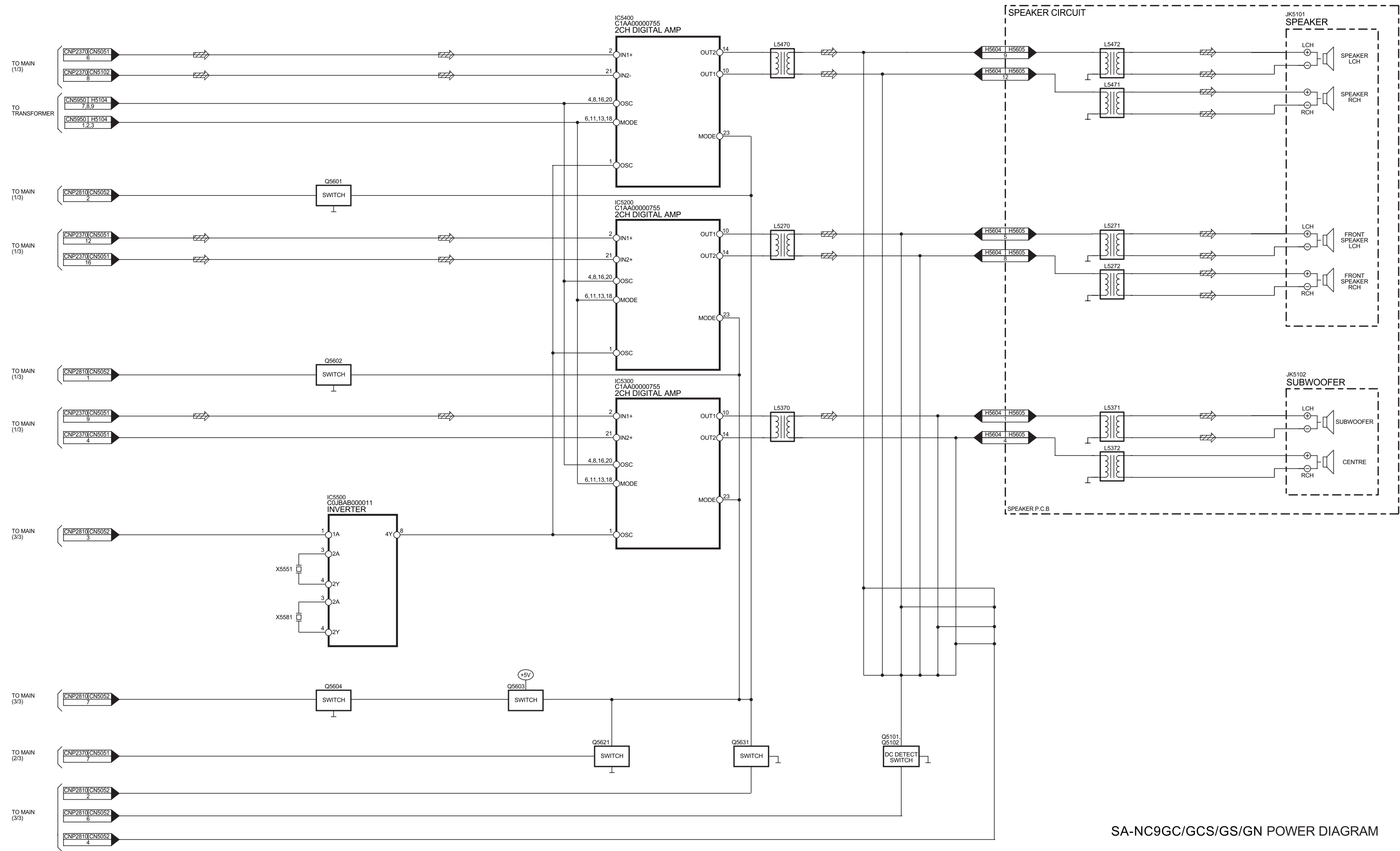
SA-NC9GC/GCS/GS/GN MAIN(3/3) DIAGRAM

16.3. Panel/Sub Panel/USB Relay



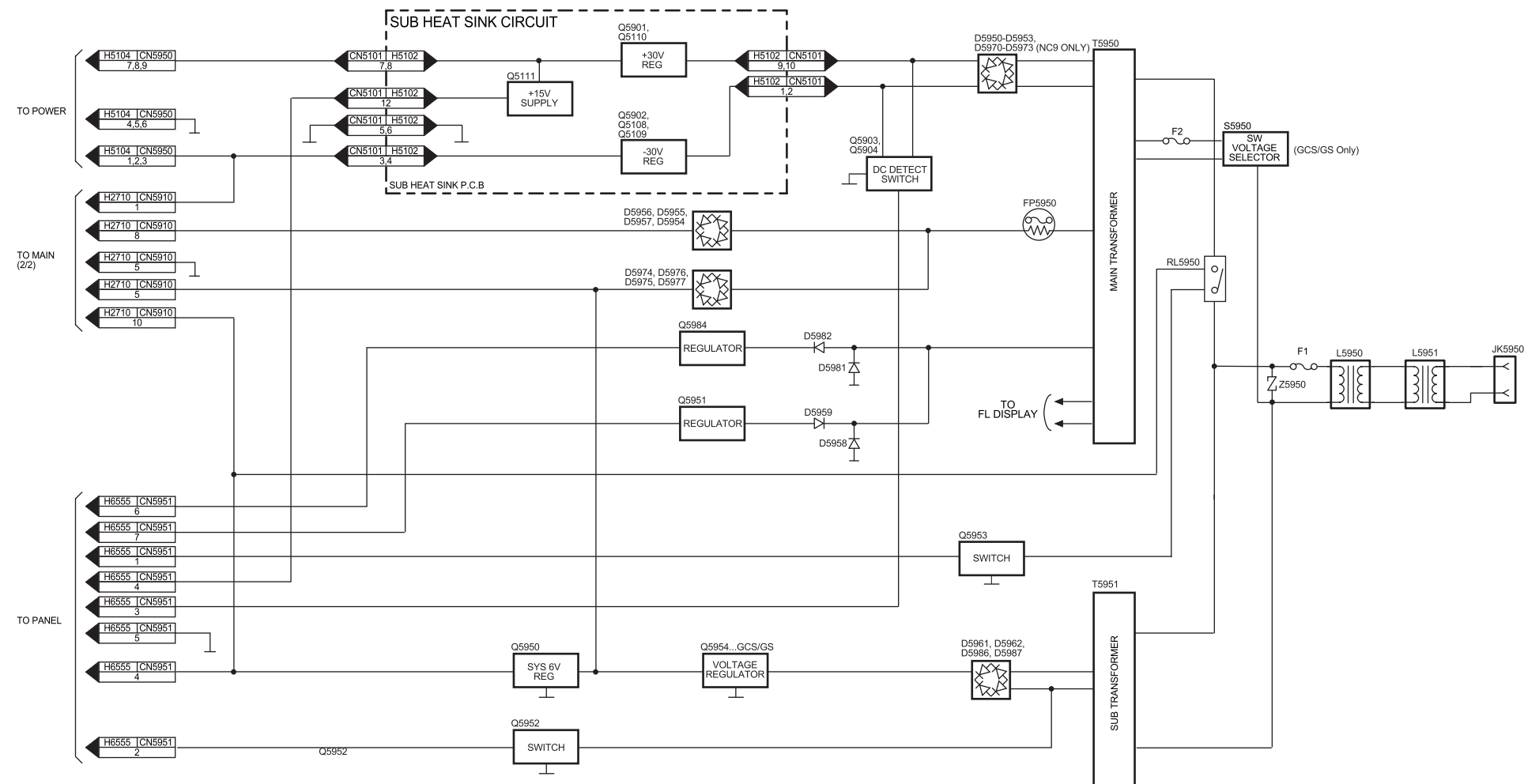
SA-NC9GC/GCS/GS/GN PANEL / SUB PANEL / USB RELAY BLOCK DIAGRAM

16.4. Power



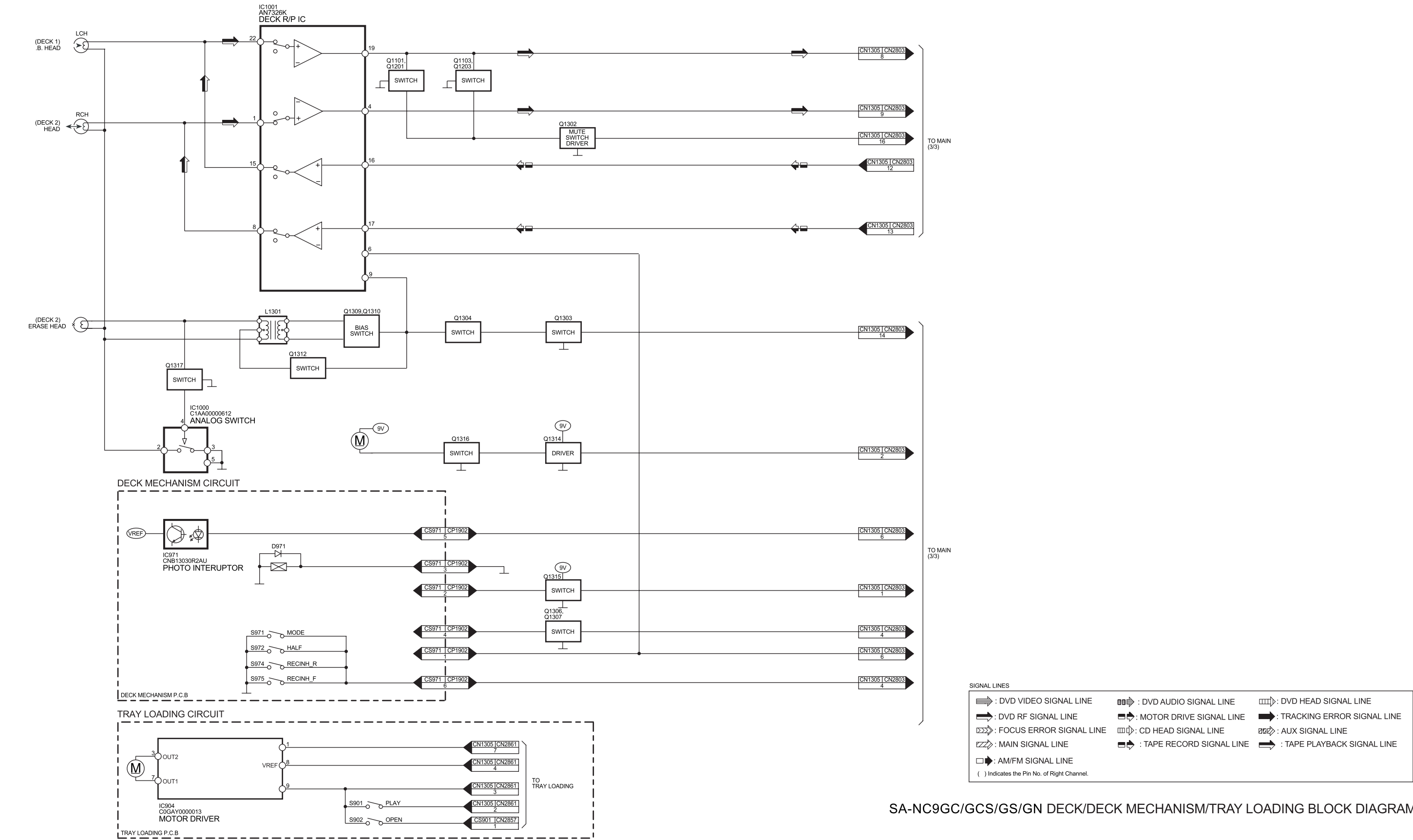
SA-NC9GC/GCS/GS/GN POWER DIAGRAM

16.5. Transformer



SA-NC9GC/GCS/GS/GN TRANSFORMER DIAGRAM

16.6. Deck/Deck Mechanism/Tray Loading



SA-NC9GC/GCS/GS/GN DECK/DECK MECHANISM/TRAY LOADING BLOCK DIAGRAM

17 Notes of Schematic Diagrams

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

S901	: OPEN Switch
S922	: OPEN Switch
S971	: MODE Switch
S972	: HALF Switch
S974	: RECINH_R Switch
S975	: RECINH_F Switch
S6101	: POWER (ϕ/I) Switch
S6102	: DISPLAY/-DEMO Switch
S6103	: RECORD ($\bullet$, REC) Switch
S6104	: DECK EJECT Switch
S6105	: AUX/MUSIC PORT (EXT-IN) Switch
S6106	: DVD/CD (DVD/CD) Switch
S6201	: REW ($\llcorner$, $\swarrow$ /REW) Switch
S6202	: FWD ($\gg\lrcorner$, $\searrow$ /FF) Switch
S6203	: STOP ($\blacksquare$, STOP) Switch
S6204	: DISC EJECT ($\blacktriangle$, DISC OPEN/CLOSE) Switch
S6205	: DOWN ($\blacktriangledown$) Switch
S6206	: UP ($\blacktriangle$) Switch
S6207	: ENTER Switch
S6208	: SOUND Switch
S6209	: UP Switch
S6210	: FM MODE/SUBW Switch
S6301	: USB ($\bullet \leftrightarrow$) Switch
S6302	: TUNER/BAND Switch
S6303	: TAPE ($\blacktriangleleft \blacktriangleright$) Switch
VR6701	: VR VOLUME JOG

• Importance safety notice :

Components identified by $\triangle$ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

- In case of AC rated voltage Capacitor, the part no. and values will be indicated in the Schematic Diagram.

AC rated voltage capacitor:

C5951

• Resistor

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

• Capacitor

Unit of capacitance is μF , unless otherwise noted. F=Farad, pF=Pico-Farad

• Coil

Unit of inductance is H, unless otherwise noted.

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.

• Voltage and Signal lines:

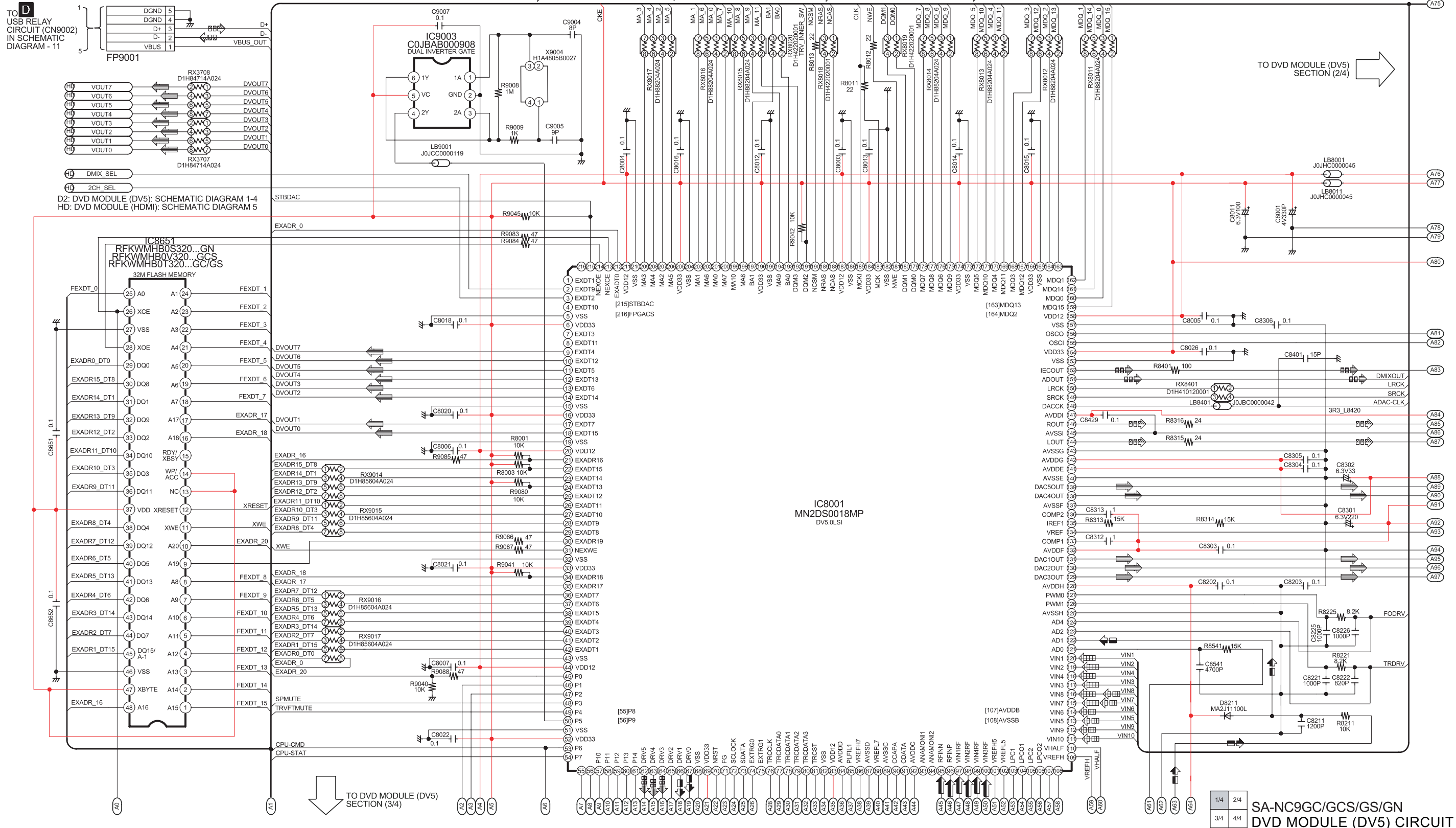
	: +B Signal line
	: -B Signal line
	: CD HEAD signal line
	: DVD HEAD signal line
	: DVD AUDIO signal line
	: DVD VIDEO signal line
	: DVD RF signal line
	: MOTOR DRIVE signal line
	: MAIN signal line
	: TRACKING ERROR signal line
	: FOCUS ERROR signal line
	: AUX signal line
	: AM/FM signal line
	: Tape Record signal line
	: Tape Playback signal line
	: USB signal line

18 Schematic Diagram

18.1. (A) DVD Module (DV5.0) Circuit

SCHEMATIC DIAGRAM - 1

A DVD MODULE (DV5) CIRCUIT

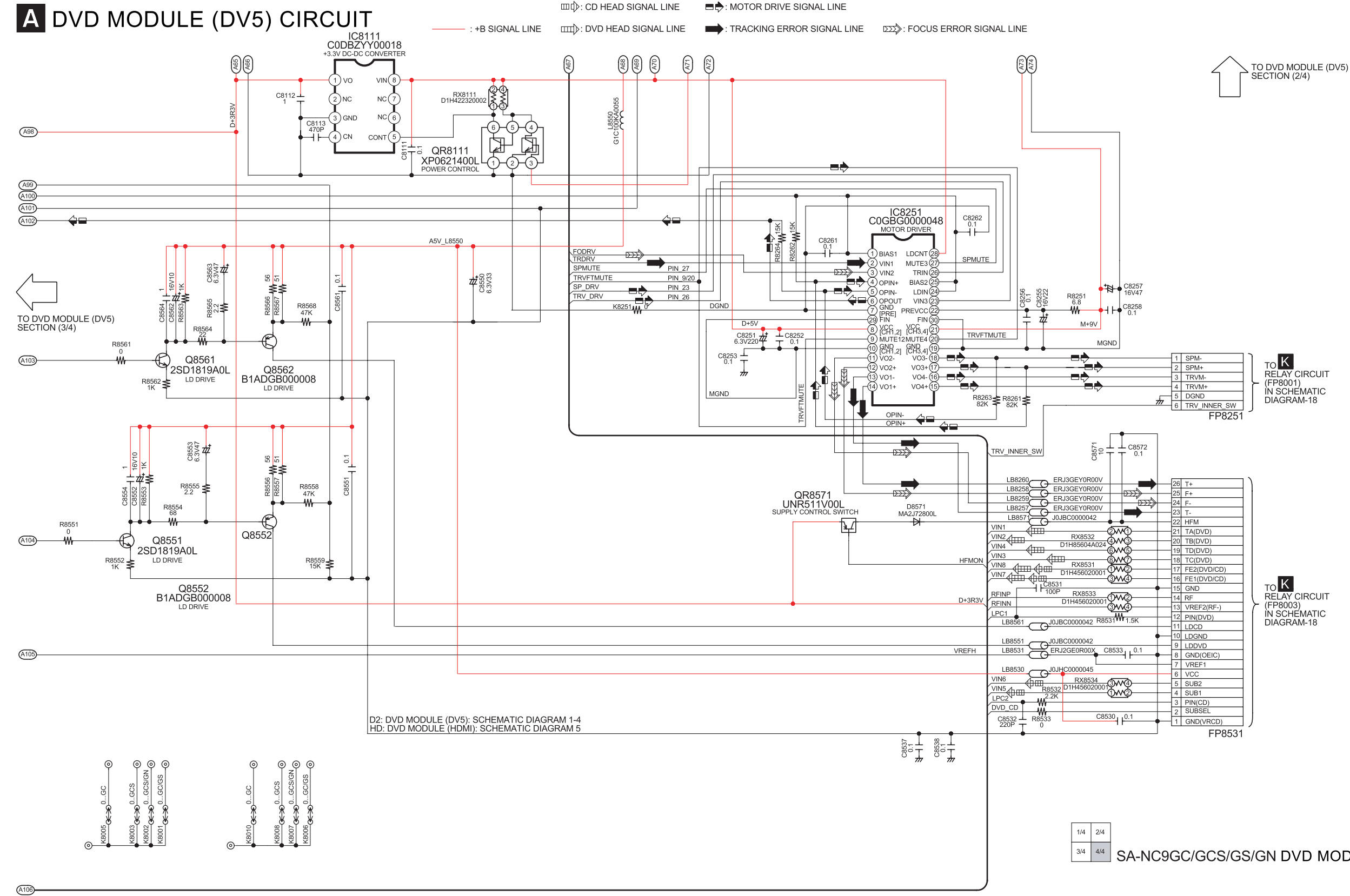


A DVD MODULE (DV5) CIRCUIT



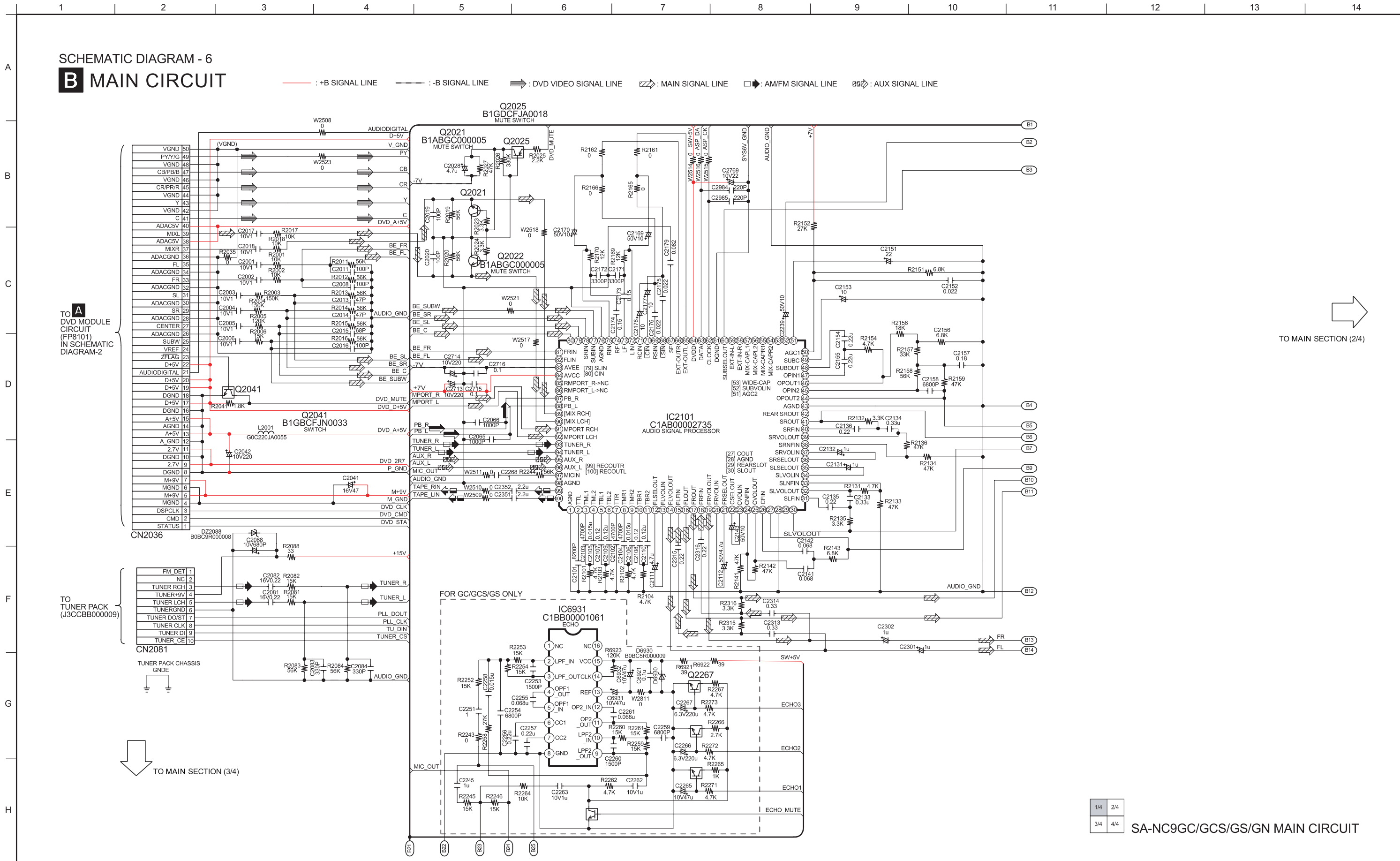
SCHEMATIC DIAGRAM - 4

A DVD MODULE (DV5) CIRCUIT





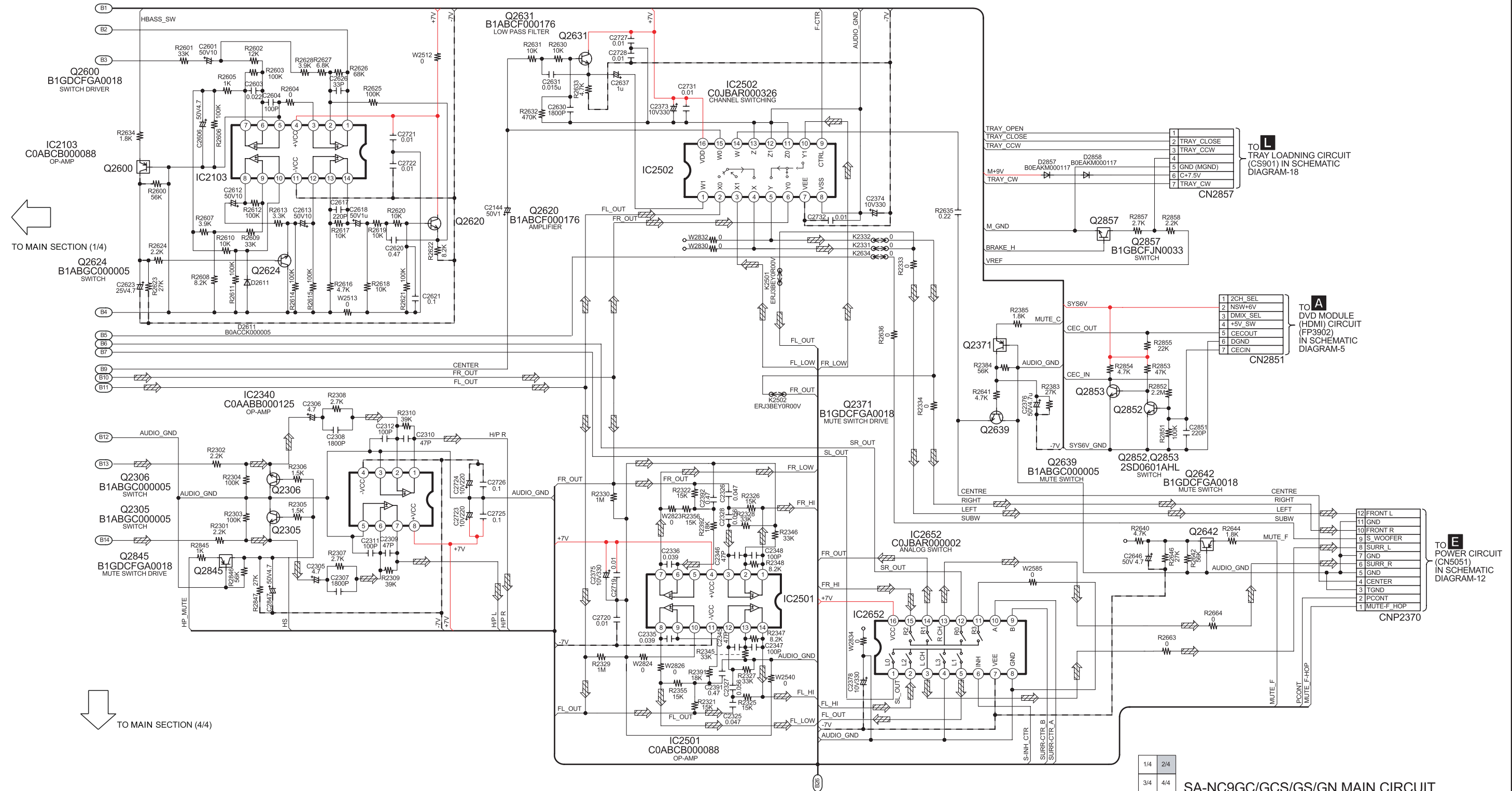
18.3. (B) Main Circuit



SCHEMATIC DIAGRAM - 7

B MAIN CIRCUIT

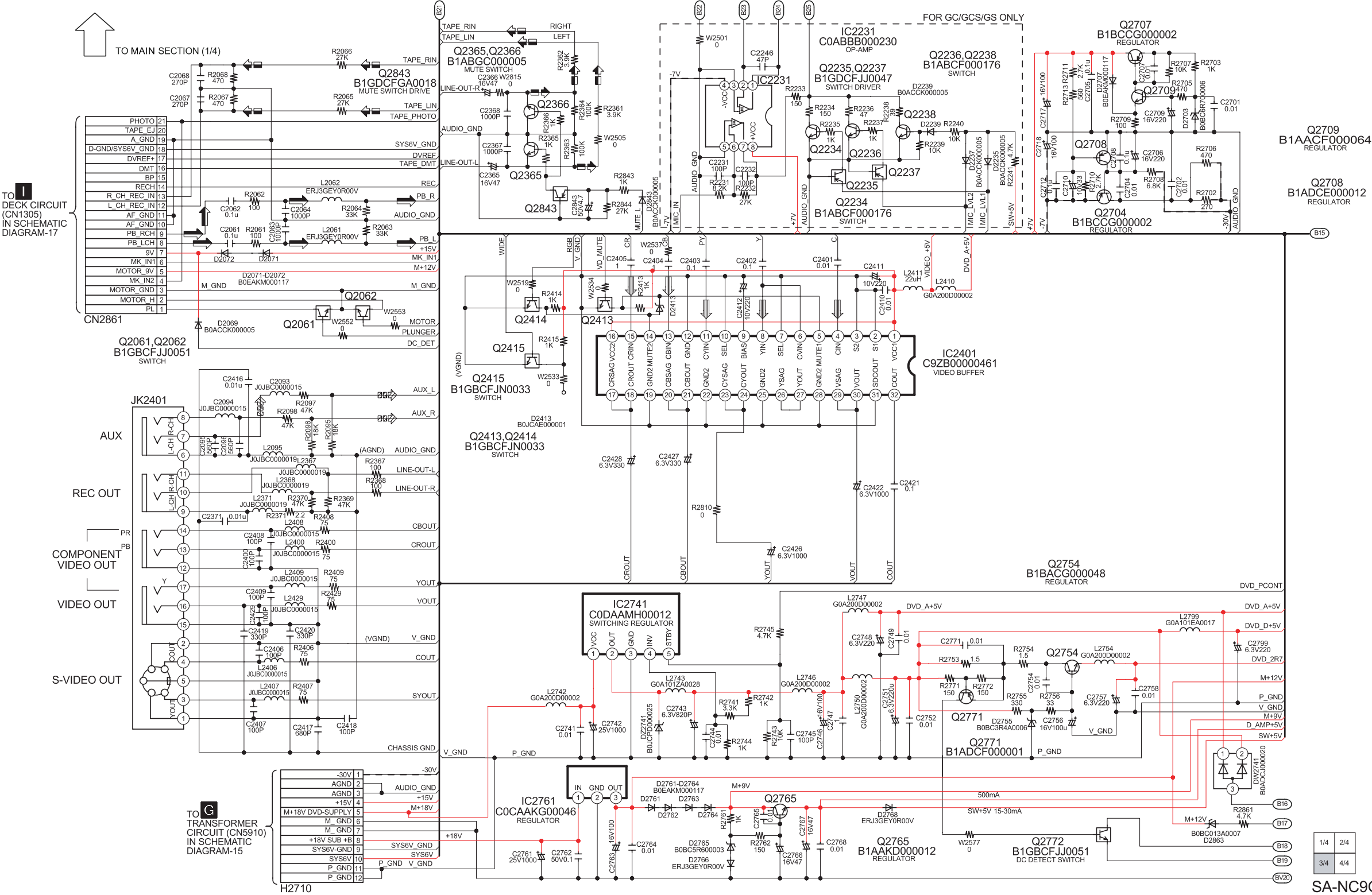
— : +B SIGNAL LINE — : -B SIGNAL LINE  : MAIN SIGNAL LINE



SA-NC9GC/GCS/GS/GN MAIN CIRCUIT

SCHEMATIC DIAGRAM - 8
B MAIN CIRCUIT

— : +B SIGNAL LINE — : -B SIGNAL LINE ⇨ : DVD VIDEO SIGNAL LINE ⇨ : MAIN SIGNAL LINE ⇨ : TAPE RECORD SIGNAL LINE ⇨ : TAPE PLAYBACK SIGNAL LINE ⇨ : AUX SIGNAL LINE



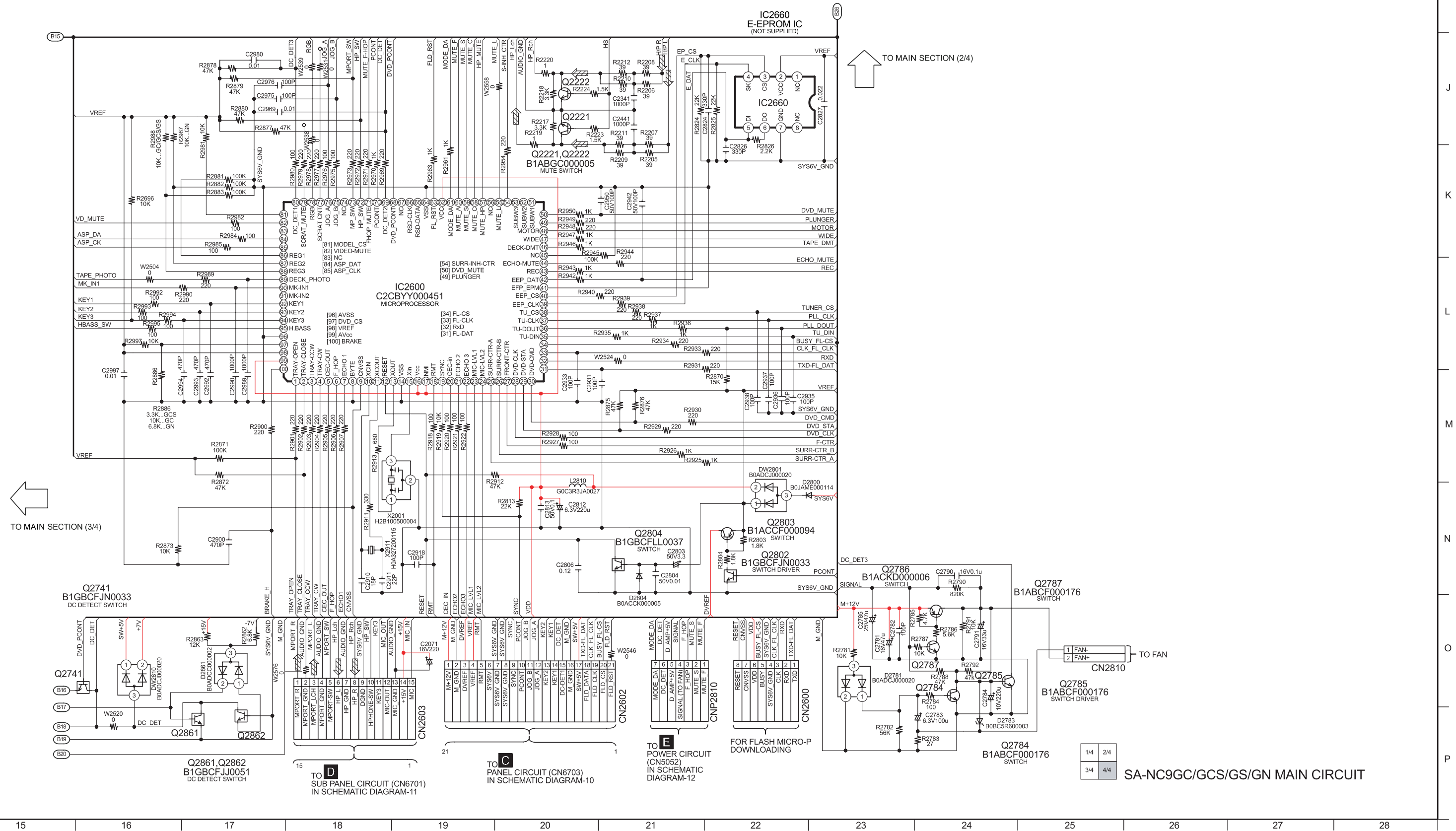
1/4 2/4
3/4 4/4

SA-NC9GC/GCS/GS/GN MAIN CIRCUIT

SCHEMATIC DIAGRAM - 9

B MAIN CIRCUIT

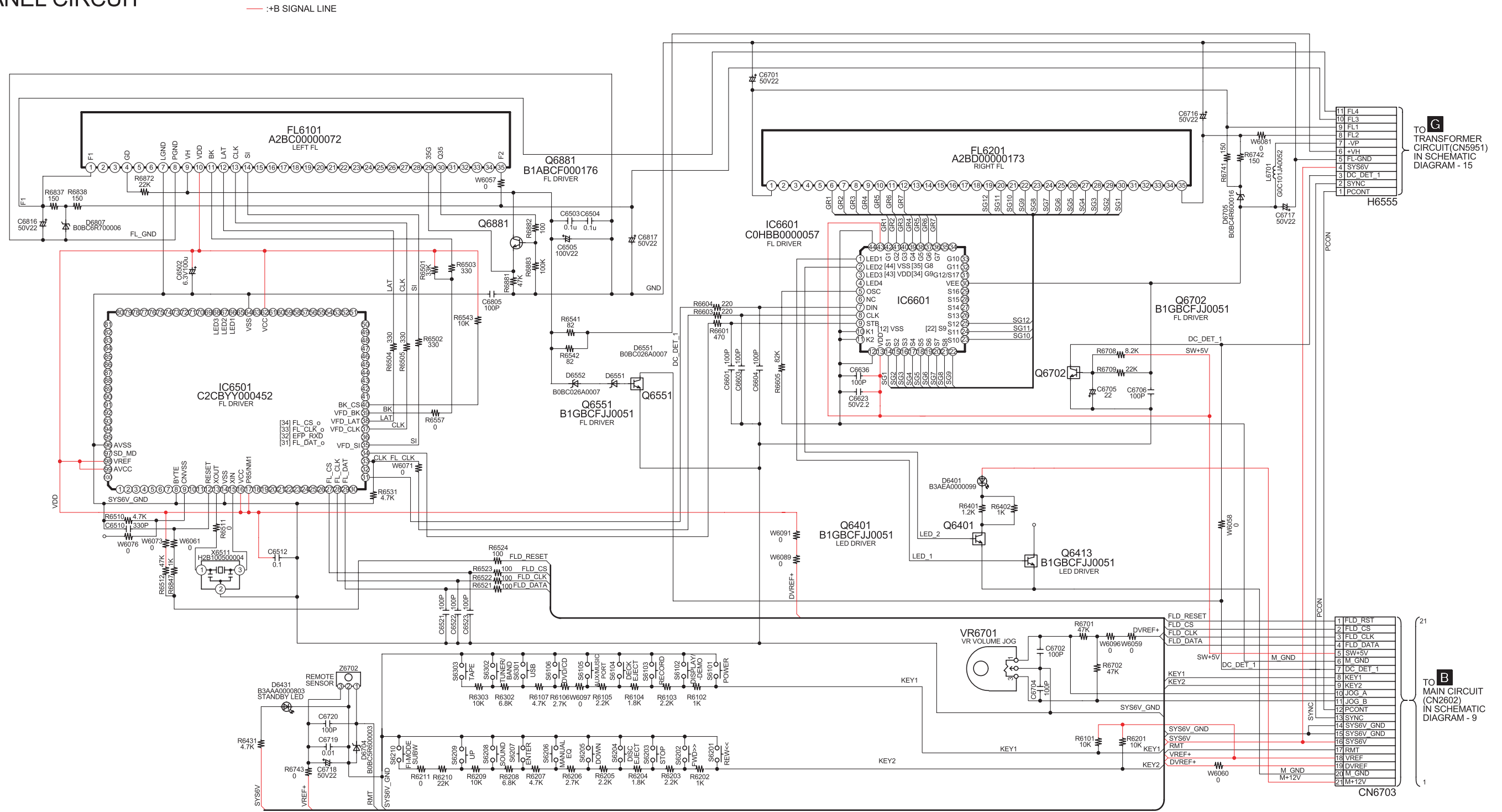
— : +B SIGNAL LINE — : -B SIGNAL LINE ➡ : DVD VIDEO SIGNAL LINE ⚡ : MAIN SIGNAL LINE



18.4. (C) Panel Circuit

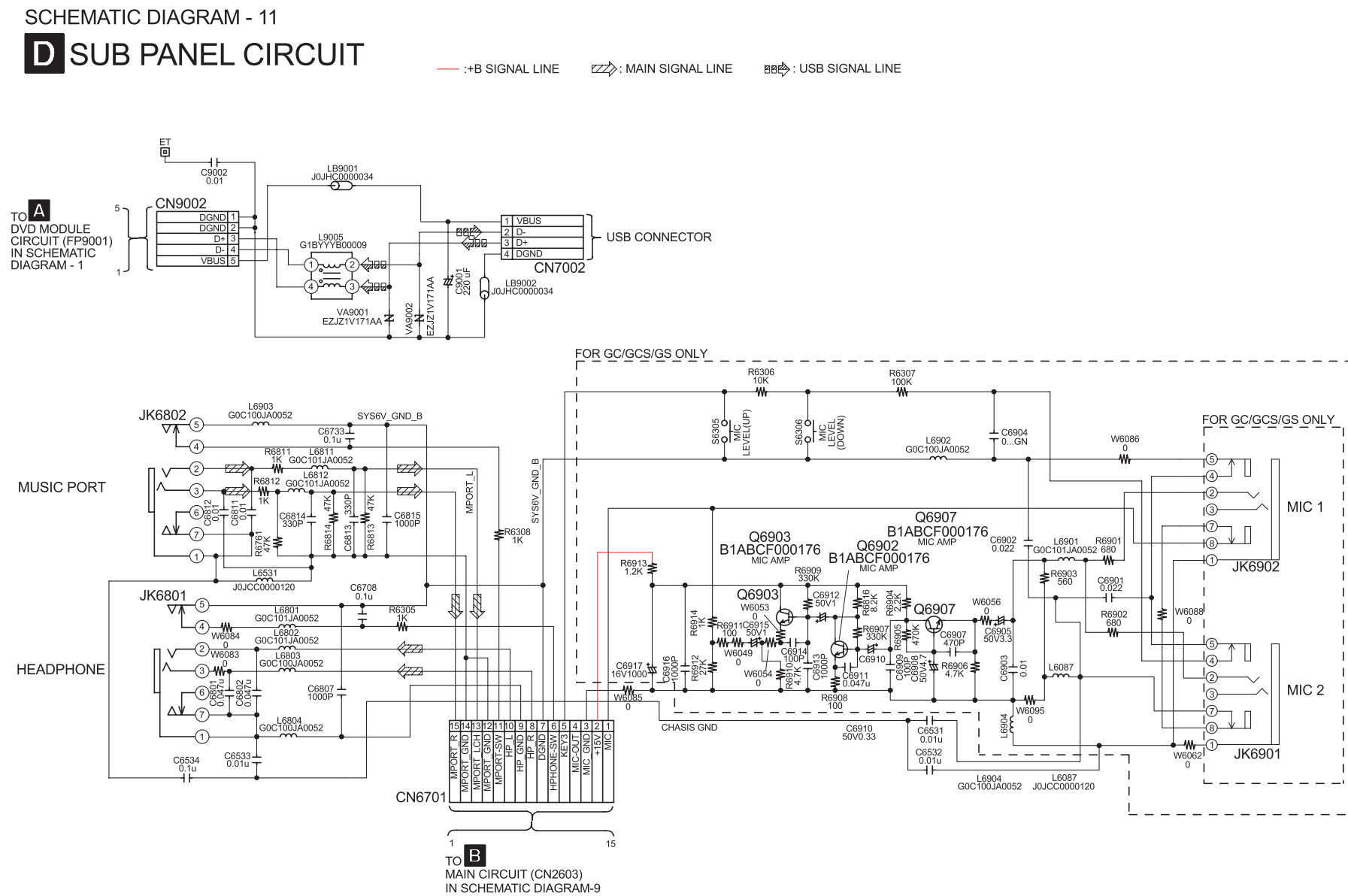
SCHEMATIC DIAGRAM - 10

C PANEL CIRCUIT



SA-NC9GC/GCS/GS/GN PANEL CIRCUIT

18.5. (D) Sub Panel Circuit



SA-NC9GC/GCS/GS/GN SUB PANEL CIRCUIT

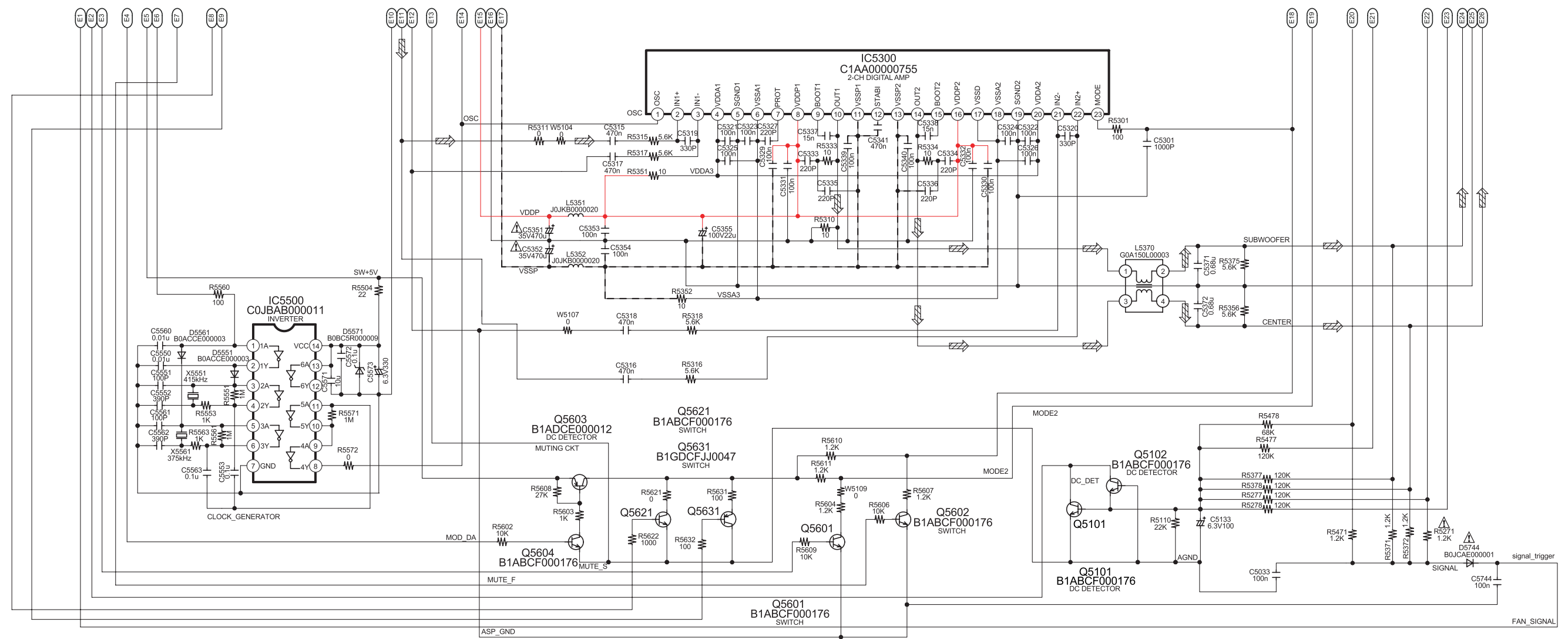
POWER CIRCUIT



SCHEMATIC DIAGRAM - 13

E POWER CIRCUIT

— : +B SIGNAL LINE — : -B SIGNAL LINE $\Rightarrow$: MAIN SIGNAL LINE



1/2

2/2

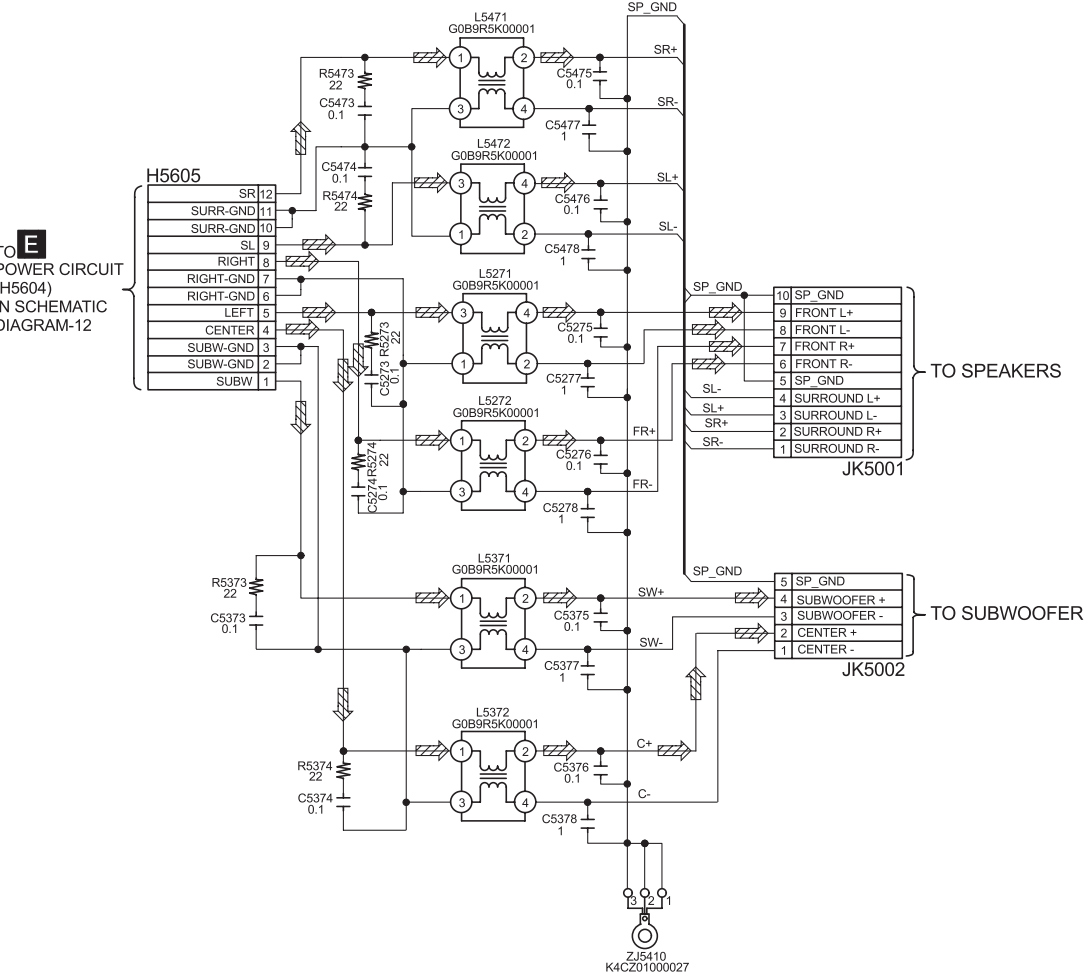
SA-NC9GC/GCS/GS/GN POWER CIRCUIT

18.7. (F) Speaker Circuit

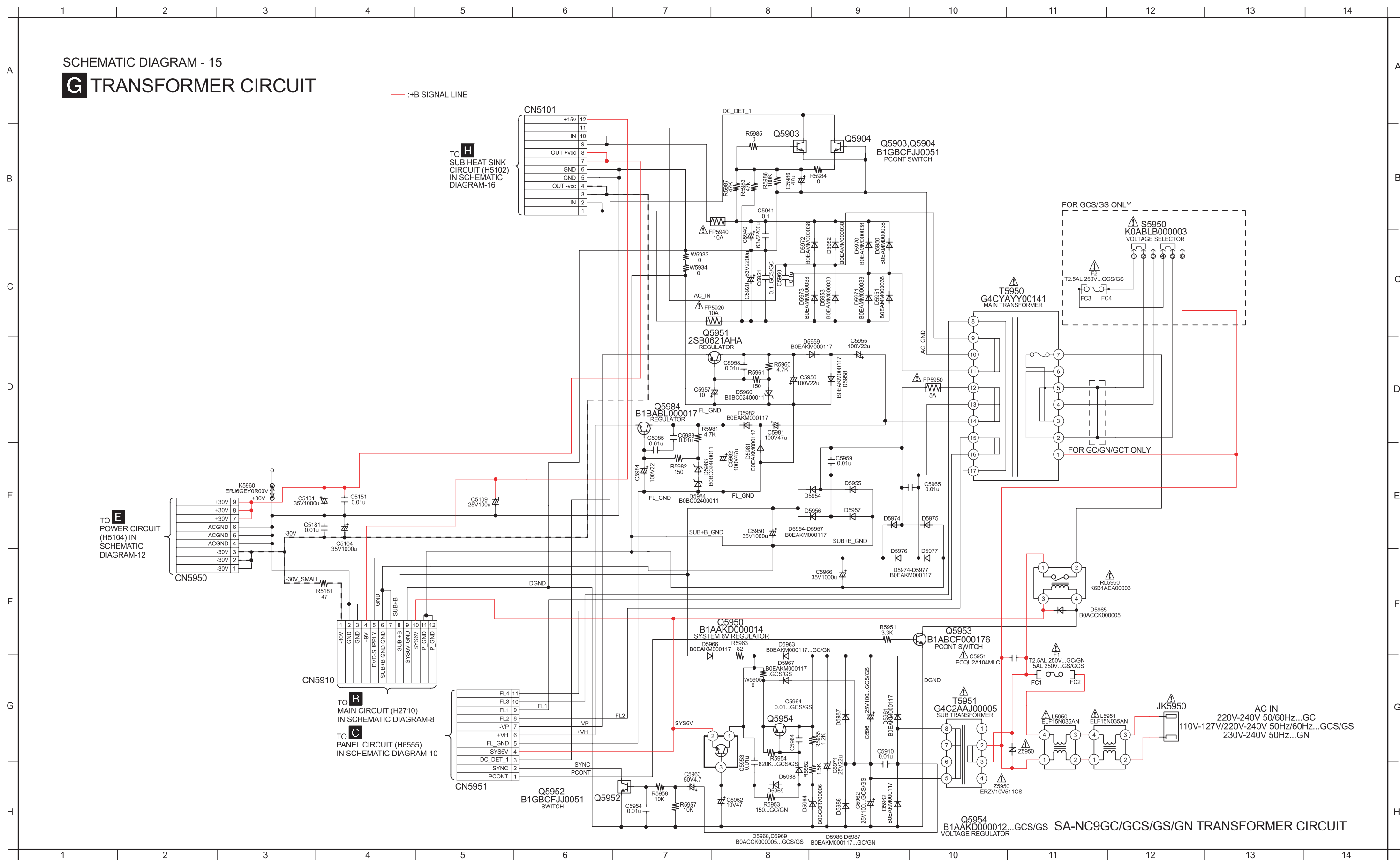
SCHEMATIC DIAGRAM - 14

F SPEAKER CIRCUIT

— :+B SIGNAL LINE  :MAIN SIGNAL LINE

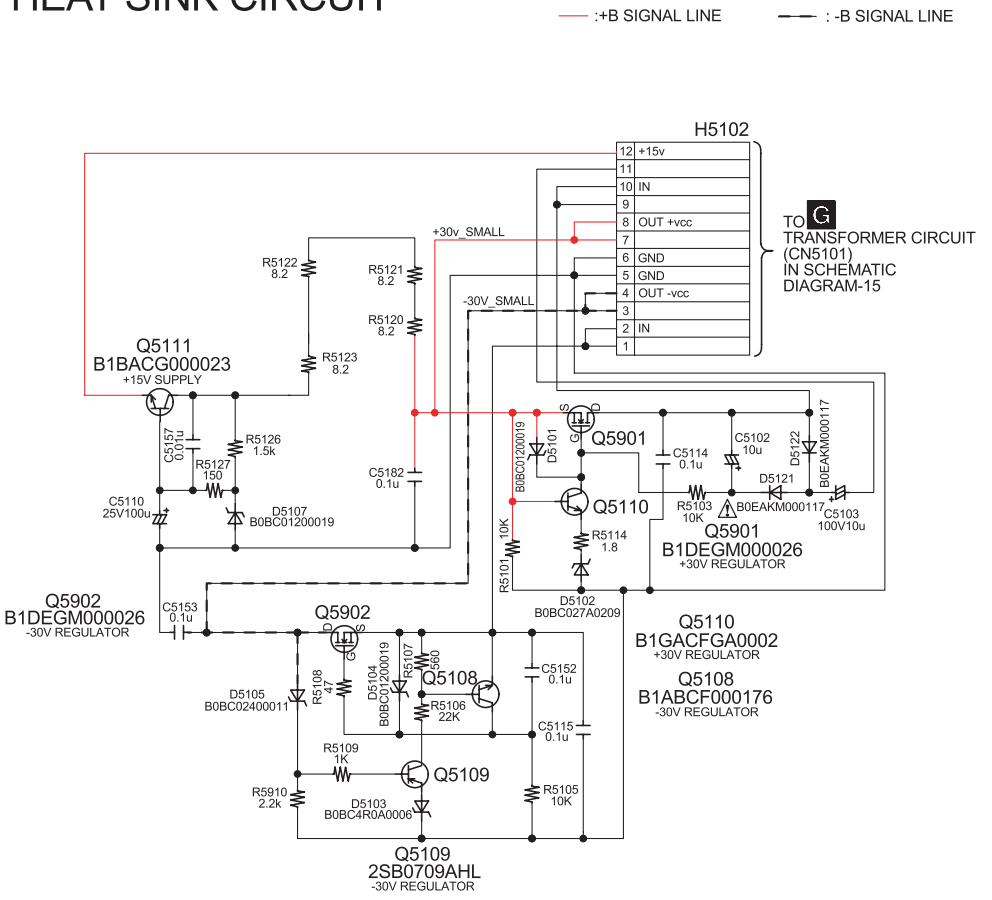


18.8. (G) Transformer Circuit



18.9. (H) Sub Heat Sink Circuit

SCHEMATIC DIAGRAM - 16
H SUB HEAT SINK CIRCUIT

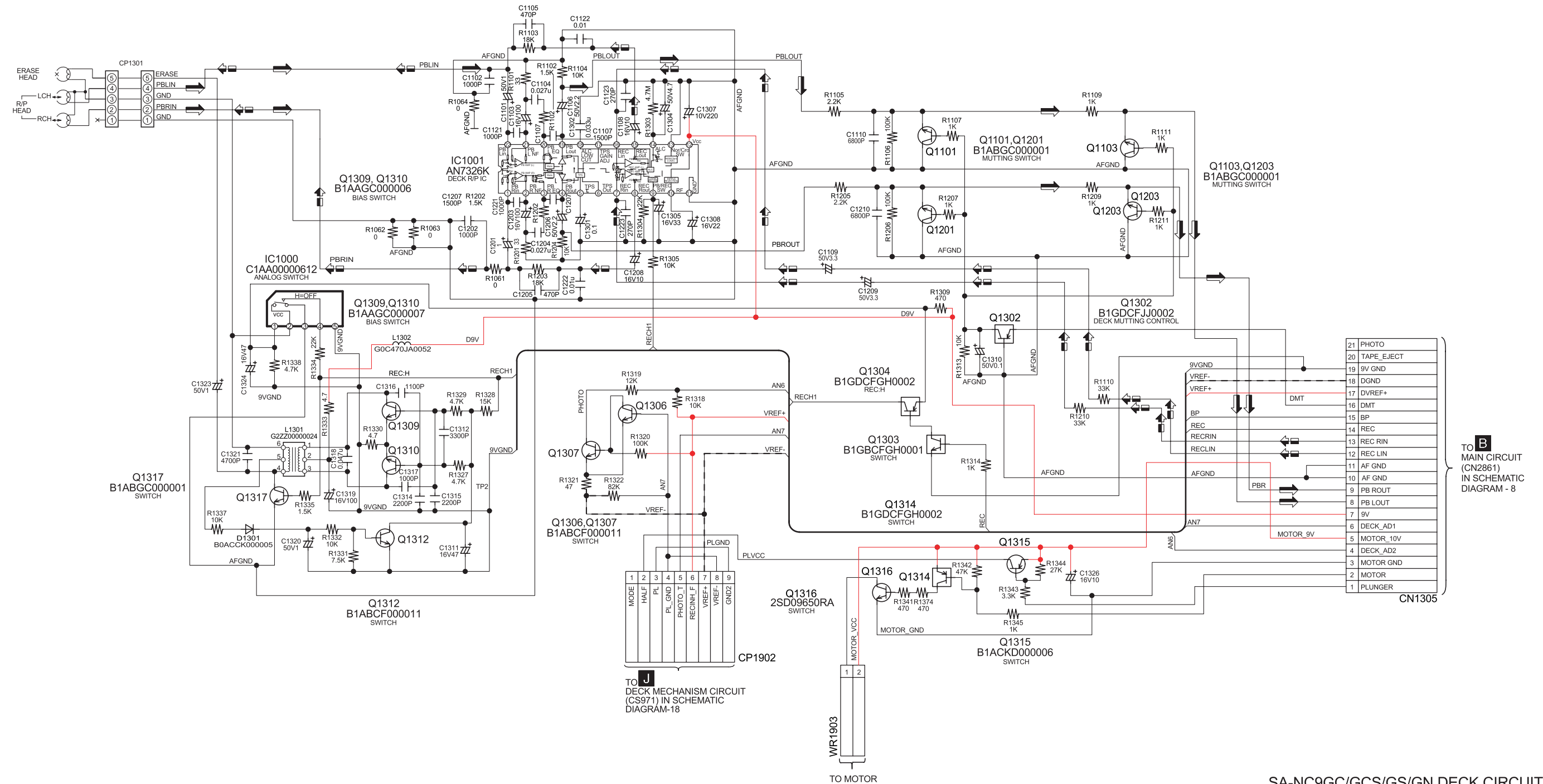


18.10. (I) Deck Circuit

SCHEMATIC DIAGRAM - 17

I DECK CIRCUIT

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

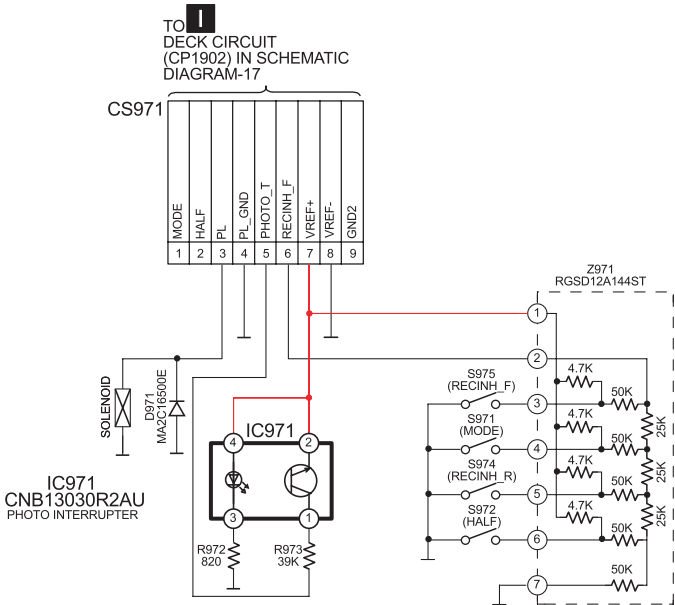


18.11. (J) Deck Mechanism Circuit, (K) Relay Circuit & (L) Tray Loading Circuit

SCHEMATIC DIAGRAM - 18

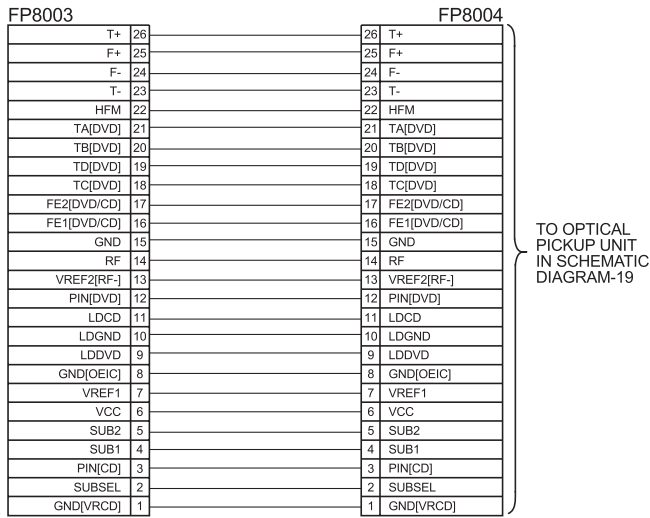
J DECK MECHANISM CIRCUIT

— :+B SIGNAL LINE

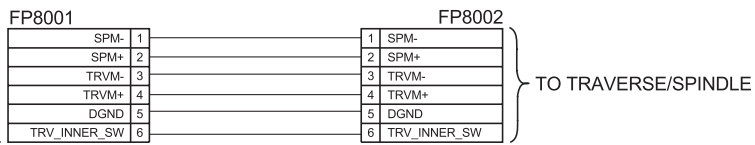


K RELAY CIRCUIT

TO A DVD MODULE (DV5) CIRCUIT (FP8531) IN SCHEMATIC DIAGRAM-4

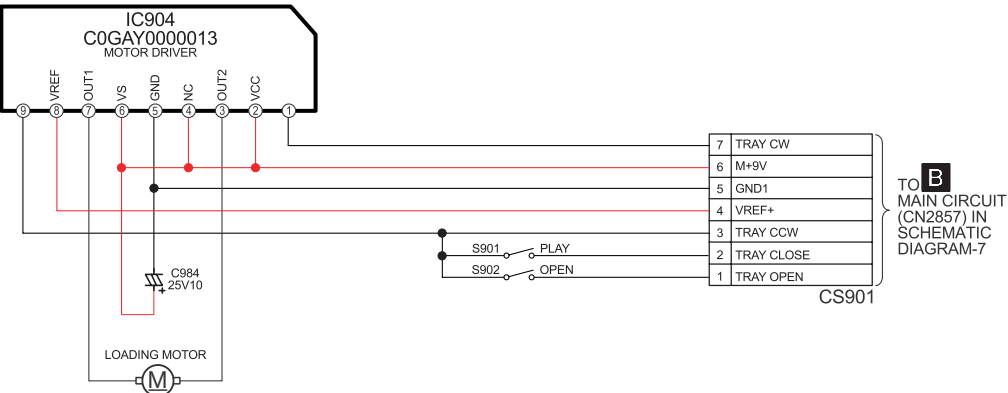


TO A DVD MODULE (DV5) CIRCUIT (FP8251) IN SCHEMATIC DIAGRAM-4



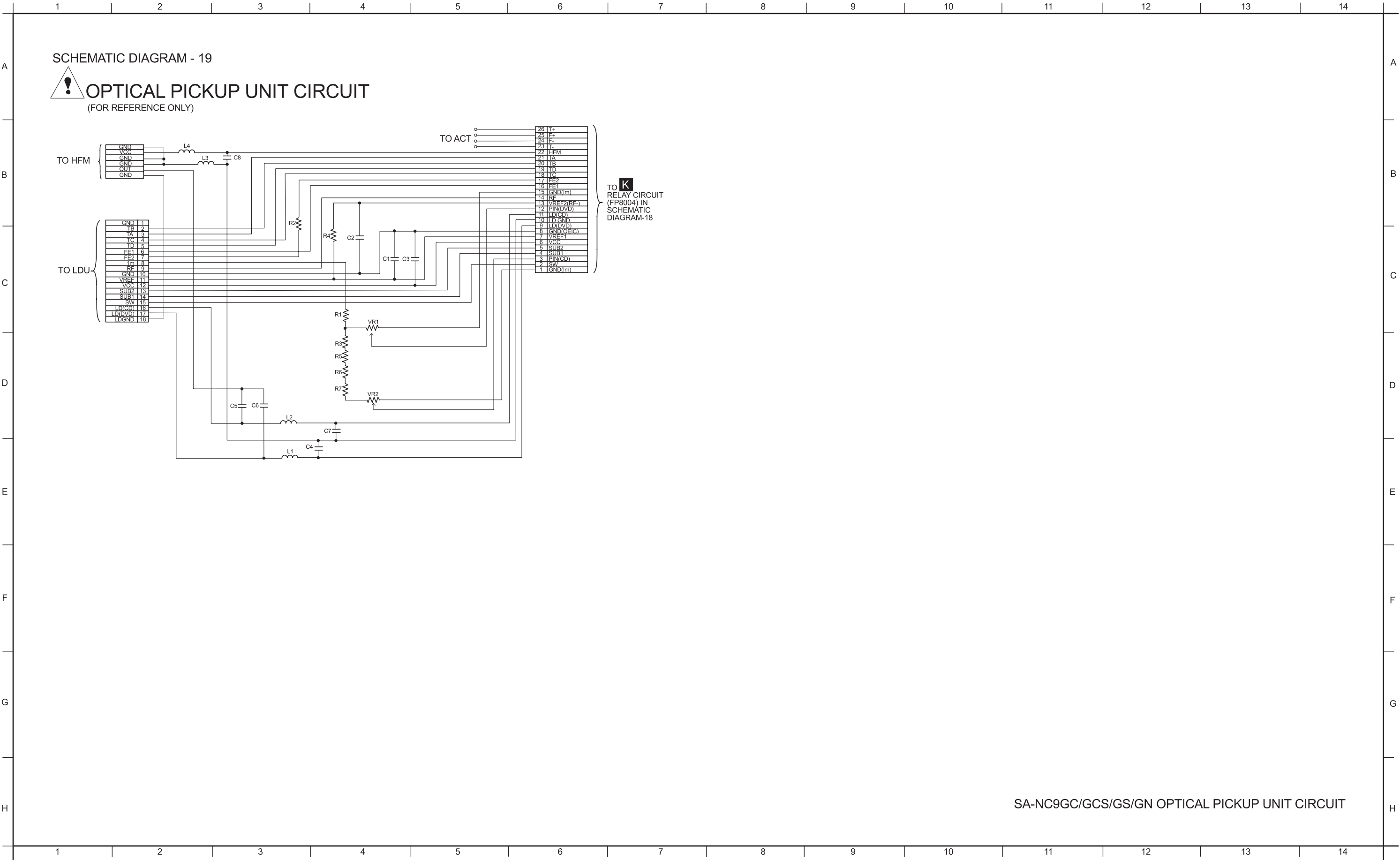
L TRAY LOADING CIRCUIT

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



SA-NC9GC/GCS/GS/GN DECK MECHANISM / RELAY / TRAY LOADING CIRCUIT

18.12. Optical Pickup Unit Circuit



19 Printed Circuit Board

Note: Circuit board diagrams may be modified at any time with the development of new technology.

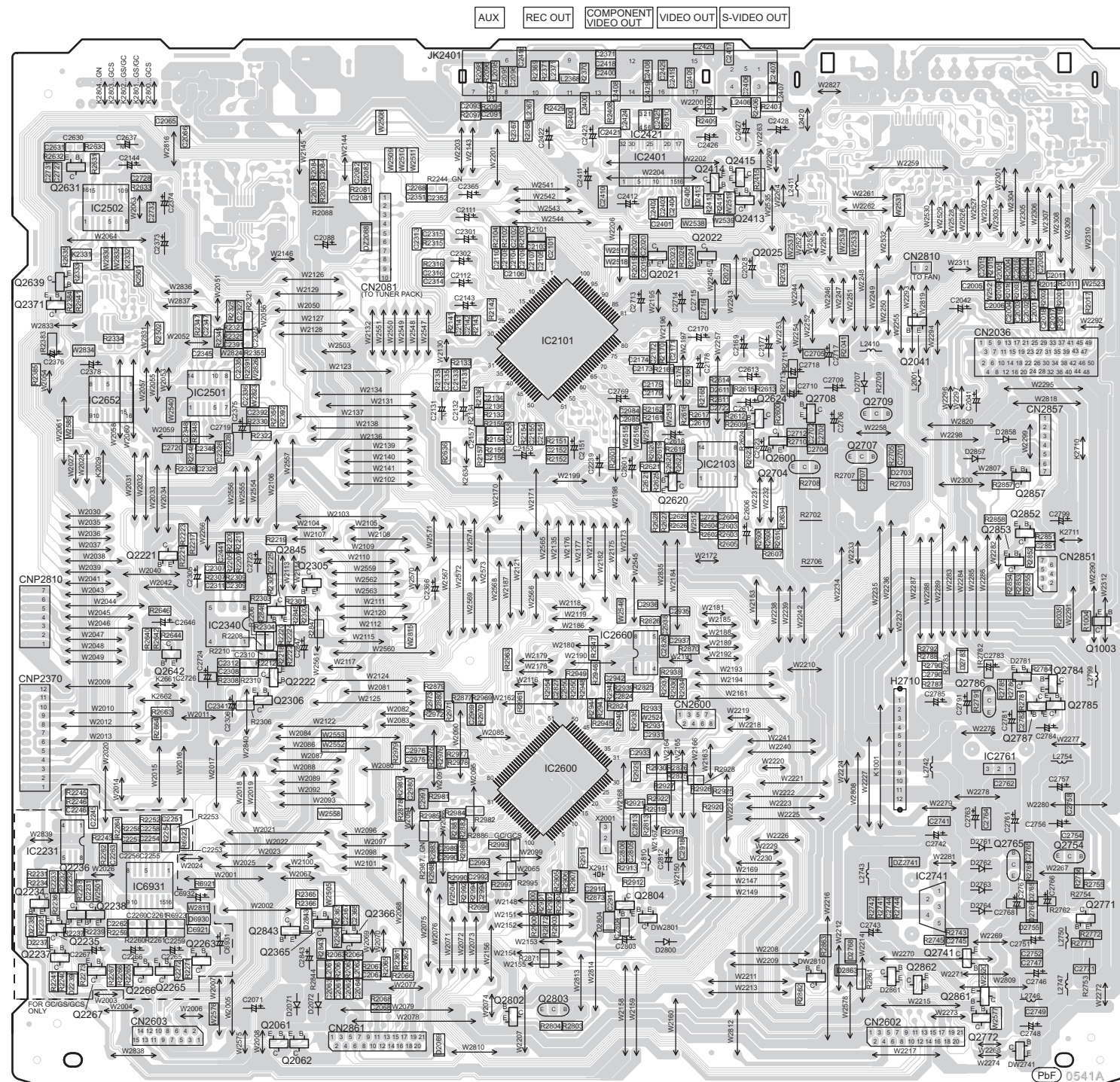
A DVD MODULE P.C.B (REPX0563K...GC/GS)
(REPX0563L...GCS)
(REPX0563N...GN)



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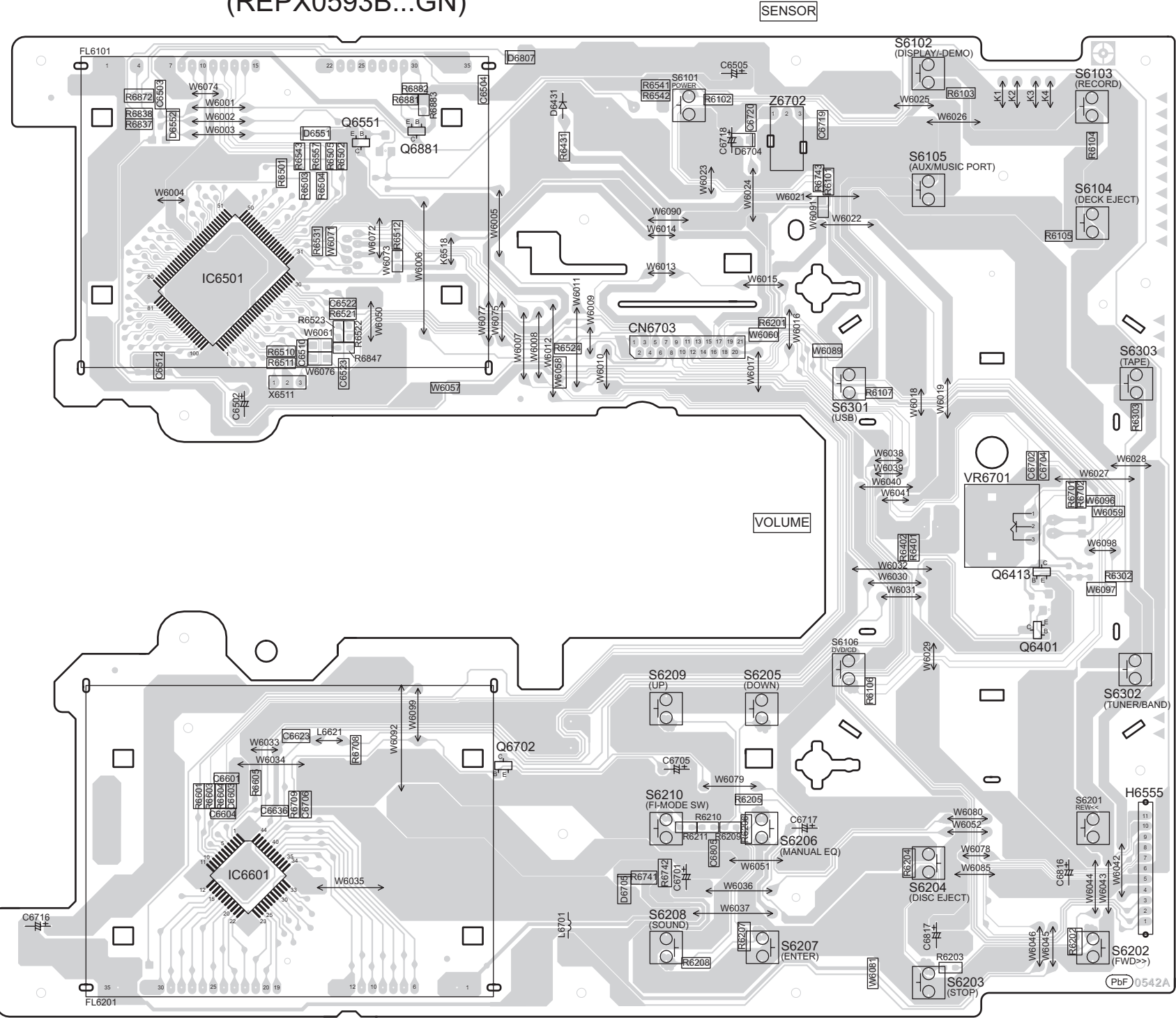
19.2. (B) Main P.C.B.

B MAIN P.C.B (REPX0592...GC/GS)
(REPX0592B...GN)
(REPX0592C...GCS)

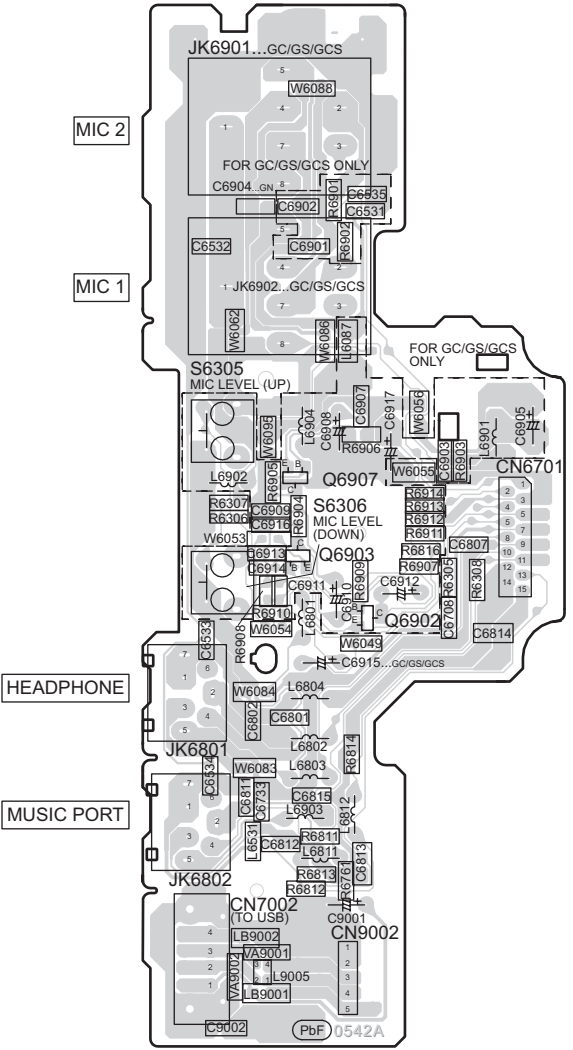
SA-NC9GC/GS/GCS/GN
MAIN P.C.B

19.3. (C) Panel P.C.B. & (D) Sub Panel P.C.B.

C PANEL P.C.B (REPX0593A...GC/GS/GCS)
(REPX0593B...GN)

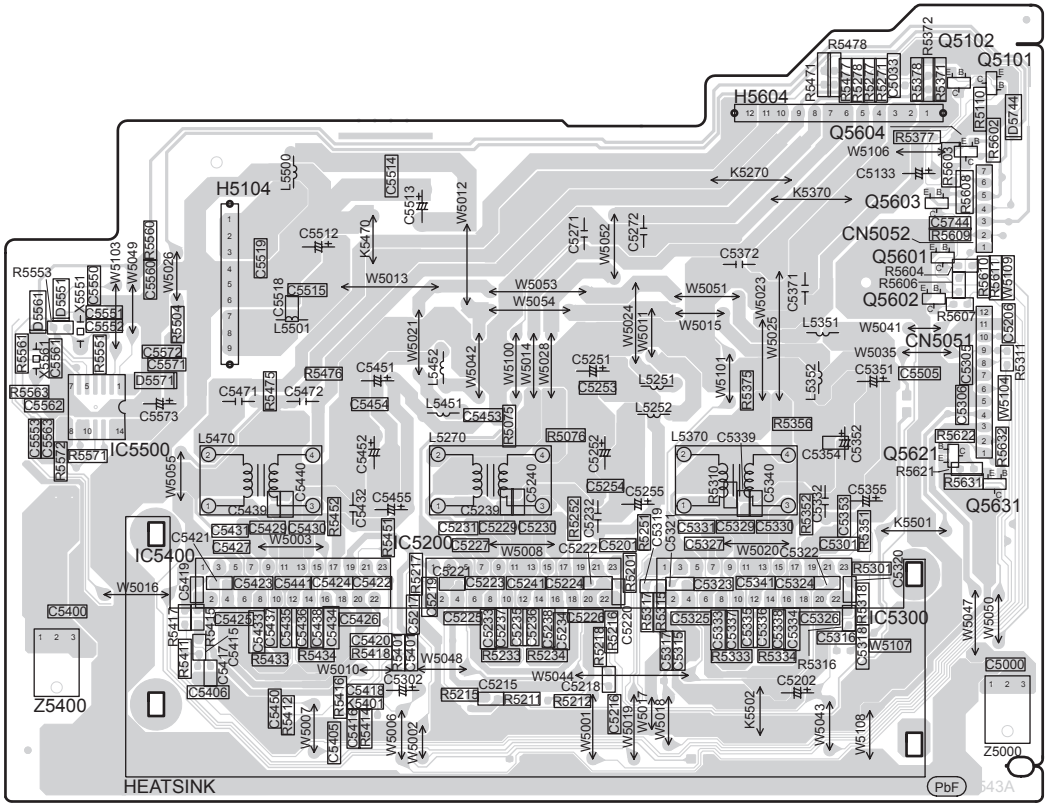


D SUB PANEL P.C.B (REPX0593A...GC/GS/GCS)
(REPX0593B...GN)

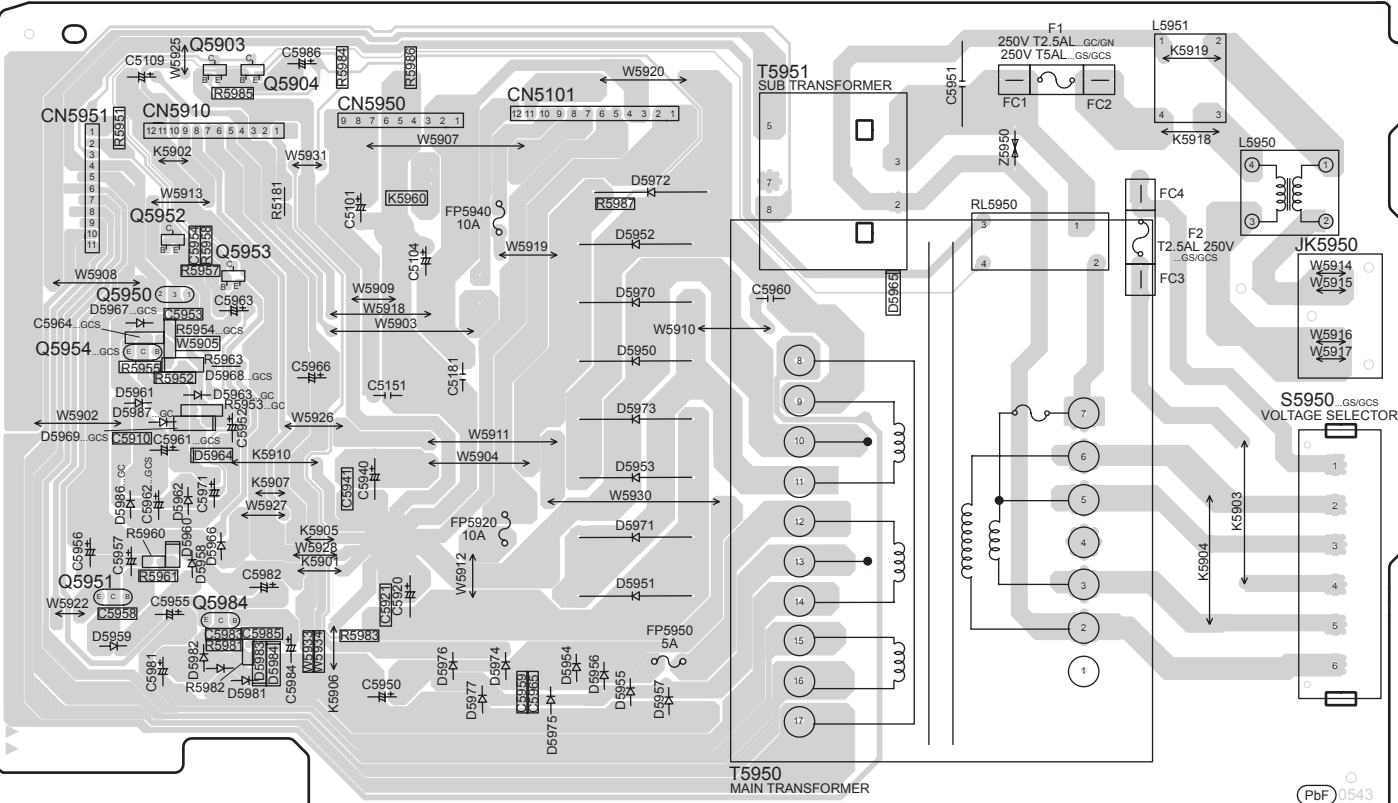


19.4. (E) Power P.C.B., (F) Speaker P.C.B., (G) Transformer P.C.B. & (H) Sub Heat Sink P.C.B.

E POWER P.C.B (REPX0594A...GC/GN)
(REPX0594C...GCS/GS)

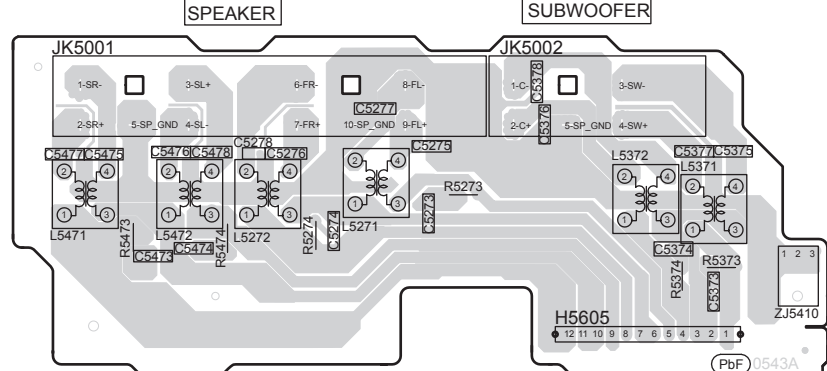


G TRANSFORMER P.C.B (REPX0594A...GC/GN)
(REPX0594C...GCS/GS)

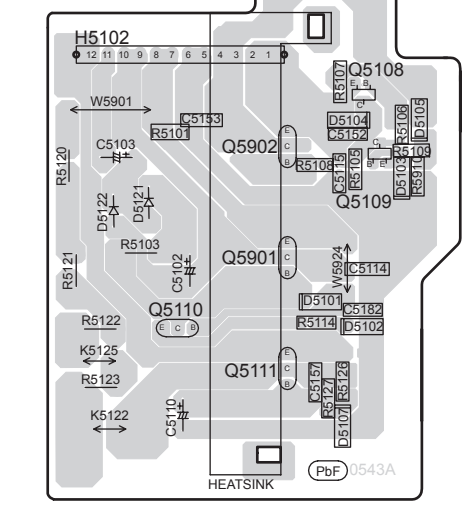


AC IN ~
220V-240V 50/60Hz...GC
110V-127V/220V-240V 50/60Hz...GCS/GS
230V-240V50Hz...GN

F SPEAKER P.C.B (REPX0594A...GC/GN)
(REPX0594C...GCS/GS)



H SUB HEATSINK P.C.B (REPX0594A...GC/GN)
(REPX0594C...GCS/GS)



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

SA-NC9GC/GS/GCS/GN
POWER / SPEAKER / TRANSFORMER / SUB HEAT SINK P.C.B

[illegible]

FP8003

1 5 10 15 20 26

FP8004
(TO OPTICAL PICKUP UNIT)

26 20 15 10 5 1

FP8001

6 5 4 3 2 1

FP8002
(TO SPINDLE/ TRAVERSE MOTOR)

1 2 3 4 5 6

PDF 0553A

PCB layout diagram for the 2462A module. The diagram shows various components including switches S901 (PLAY SW) and S902 (OPEN SW), a potentiometer RM902 (M), an integrated circuit IC904, a connector CS901, and a resistor C984. A 2462A chip is also indicated. The layout includes a large rectangular cutout and several circular and rectangular pads.

20 Basic Troubleshooting Guide

20.1. Basic Troubleshooting Guide for Traverse Unit (DVD Module P.C.B.)

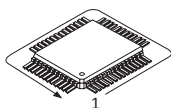
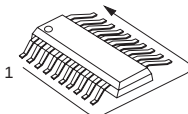
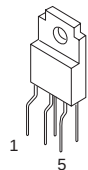
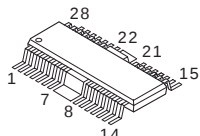
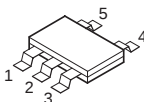
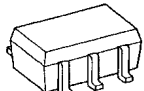
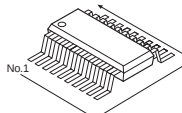
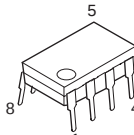
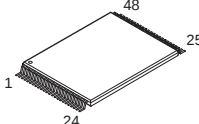
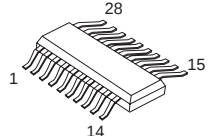
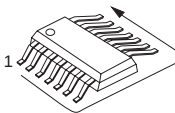
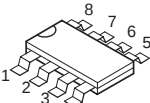
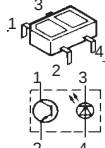
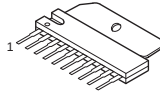
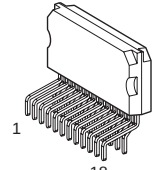
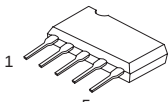
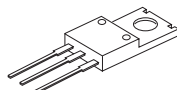
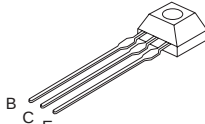
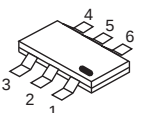
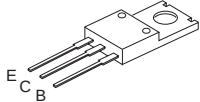
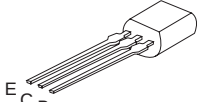
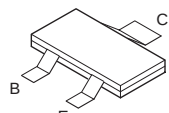
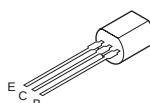
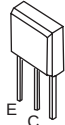
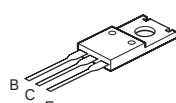
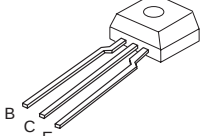
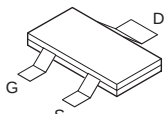
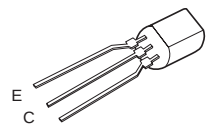
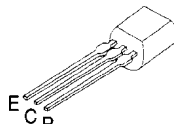
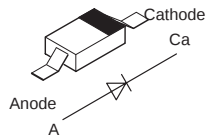
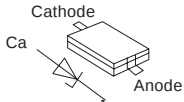
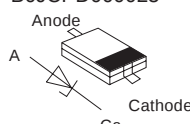
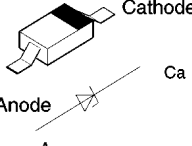
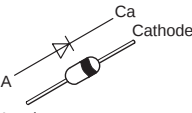
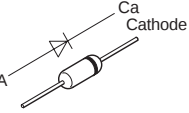
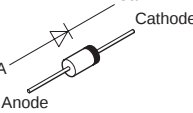
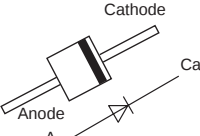
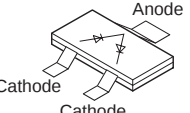
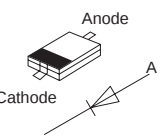
Problems	Checking Points	Checking Components
1) Distorted picture or abnormal sound is heard during the initialization.	a) Check SDRAM address, data bus, CLK and other control signals waveform.	IC8051
	b) Check video signals.	LB8301, R8321, R8322, LB8302, R8325 & R8326
	c) Check audio DAC circuitry. * Compare the above with OK condition HDMI Module P.C.B.	IC8421 * Check for solder short and/or component missing/damaged
2) No TOC / Long TOC.	a) Check motor driver circuitry (+5V).	IC8251 in Pin 8 & 21
	b) Check laser drive circuitry (voltages & current).	Q8551, Q8552, Q8561 & Q8562
	c) Check LSI IC connection to motor drive circuitry. * Compare the above with OK condition HDMI Module P.C.B.	IC8001 Pin 144 & 145 * Check for solder short and/or component missing/damaged
3) Disc not spinning. 4) Traverse not moving 5) Traverse and spindle abnormal movement	a) Check connection from HDMI Module to Traverse unit.	FP8251
	b) Check motor driver circuitry on the voltages and control signals.	IC8251 * Check for solder short and/or component missing/damaged
6) Cannot read the disc but spindle motor is spinning.	a) Check laser drive circuitry (voltages and current). - Check CD Laser Drive - Check DVD Laser Drive * Compare voltages and LD current and compare with OK condition HDMI Module P.C.B..	Q8551, Q8552, LB8531 (For DVD Laser Drive current) Q8561, Q8562, LB8561 (For CD Laser Drive current)
	b) Check motor driver circuitry on the voltages and control signals.	IC8251 * Check for solder short and/or component missing/damaged
7) Block Noise during play.	a) Check SDRAM address and data bus signal	IC8051
8) Jitter out of specification.	a) Check LD current b) Check OPU (Change to other unit and confirmed operating condition)	OPU Unit (Traverse Unit), FPC connection

20.2. Basic Troubleshooting Guide for HDMI AV output

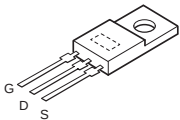
Problems	Checking Points	Checking Components
1) TV does not have any display. Set FL display shows U702/U703.	1) Check setting of the set in Setup Menu whether the HDMI Video output is turned ON.	* This year HDMI always ON. No need check Setup Menu. If no resolution selection GUI, then only check SETUP.
	2) +5V Supply to the TV.	IC3952 (Pin 4)
	3) HDMI Connector Solderability condition. b) Check video signals. c) Check audio DAC circuitry. * Compare the above with OK condition Module.	P3901
	4) HDMI output TDMS signal lines (IC3901). - Data (Pin 72, 73, 76, 77, 80 & 81) - Clock (Pin 10 & 12)	LB3903, L3904 & L3905 L3906
	5) HDMI Transmitter communication lines to TV. - Data, SDA (Pin 120 & IC8001). - Clock, SCL (Pin 121 & IC8001).	LB3905, R3905, Q3902 & R3904 LB3904, R3907, Q3903 & R3906
	6) HDMI Transmitter communication from LSI (IC8001).	RX3901
	7) Local Port Slave Address setting resistor.	R3921
	8) HDMI Transmitter +3.3V Supply.	LB3901, IC3901 (Pin 26, 42, 47, 52, 70, 84, 100, 106 & 115)
	9) HDMI Transmitter +1.2V Supply.	IC3901 (Pin 5, 26, 42, 47, 55, 75, 85, 102, 109, 116 & 123), IC8151 (Pin 2 & 4)
	10) HDMI Up-Con +3.3V Supply.	LB3901
	11) HDMI Pixel Clock Output from Up-Con to HDMI Transmitter.	R8902
	12) Up-Con IC 12C Data and Clock Line.	RX3706
	13) Hot-Plug Signal.	LB3906, R3902, R3903, Q3901 & D3901
	14) TDMS Output swing amplitude control resistor.	R3901
	15) Host Interface External Input Clock from LSI (IC8001) to Up-Con IC (IC3901) - OSC27M.	LB8702
	16) Video Data Lines from LSI (IC8001) to Up-Con IC (IC3901).	RX3707 & RX3708

Problems	Checking Points	Checking Components
2) When switching the video output mode from 480P to 720P/1080i, TV display becomes blank.	1) Supply for Up-Con (IC3901). - Pin 9 & 124	LB3902
	2) GND for Up-Con. - Pin 7 & 125	
	3) Check for capacitor short to GND.	C3902, C3928 & C3925
3) Colour problem. TV screen is white/Blue/Purple	1) Check digital video data line from LSI (IC8001) to Up-Converter (IC3901), VOUT0-VOUT7.	RX3707, RX3708
4) HDMI got no audio outut.	1) Audio data lines.	R8402 & RX8402
	2) Check setting of the set in Setup Menu HDMI Audio output is turned ON	* Check for solder short and/or component missing/damaged as well as signal condition

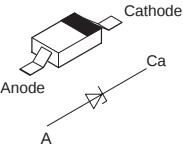
21 Illustration of ICs, Transistors and Diodes

C0HBB0000057 (64P) C1AB00002735 (100P) C2BBYY000451 (100P) C2BBYY000452 (100P) MN2DS0018MP (216P) MN864702A (128P)		C0ABBB000230 (8P) C0ABCB000088 (14P) C0JBAB000011 (14P) C0JBAR000326 (16P) C1BB00001061 (16P) C3ABPG000145 (54P) C9ZB00000461 (32P)		C0DAAMH00012 	AN7326K C0GBG0000048 
C0EBE0000456 	C0JBAA000501 C0JBAA000502 C0JBAB000907 C0JBAB000908 	C0JBAZ001251 (20p) 	C0AABB000125 	RFKWMHB0S320(48P) - (For GN) RFKWMHB0T320(48P) - (For GC/GS) RFKWMHB0V320(48P) - (For GCS)	
C0FBBK000050 	C0JBAR000002 (16P) 	C0DBZY000002 C0DBZYY00018 	CNB13030R2AU 	C0GAY0000013 	C1AA00000755 
C0EBA0000029 (4p) 	C0CBCDC00063 	C0DBEHG00006 C1AA00000612 	C0CAAKG00046 	B1AAGC000007 	XP0621400L 
B1BACG000023 B1BCCG000002 	B1AAKD000012 	2SB1218ARL 2SD0601AHL 2SD1819AOL 2SB0709AHL B1ABCF000011 B1ABCF000176 B1ABGC000001 B1ABGC000005	B1ADCF000001 B1ADCE000012 B1ADGB000008 B1GACFGA0002 B1GBCFGH0001 B1GBCFJJ0051 B1GBCFJN0033 B1GBCFLL0037	B1GDCFGH0002 B1GDCFJA0018 B1GDCFJA0018 B1GDCFJJ0047 B1GDCFJJ0002 UNR521100L UNR511V00L	
2SD09650RA 	B1BABL000017 	B1BACG000048 	B1ACCF000094 B1AACF000064 	B1CFHA000002 	2SB0621AHA 
B1AAKD000014 B1ACKD000006 	B0ACCE000003 B0BC01200019 B0BC013A0007 B0BC026A0007 B0BC6R700006 MA2J11100L		B0BC3R4A0006 B0BC4R0A0006 B0BC4R600016 B0BC9R000008 	B0BC5R600003 B0BC5R000009 B0JCPD000025 	B0BC02400011 
B0JCAE000001 MA2C16500E MA2J72800L 	B0EAMM000038 	B0EAKM000117 	B0JAME000114 	B0ADCC000002 	B0ACCK000005 

B1DEGM000026



B0BC027A0209



22 Terminal Function of IC

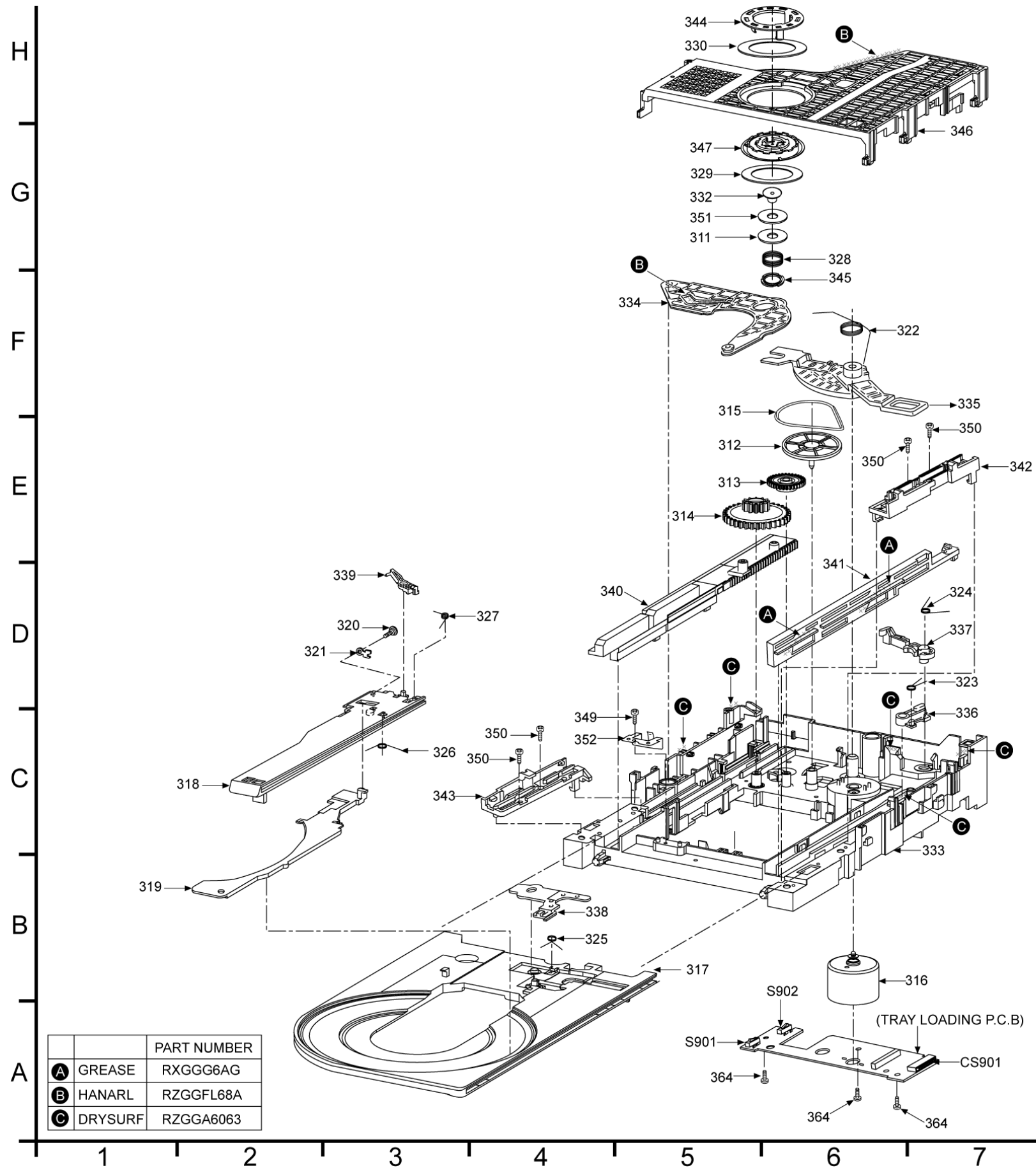
22.1. IC2600 (C2CBYY000451) System Microprocessor

Pin No.	Mark	I/O	Function
1	TRAY_OPEN	I	Loading Mecha open SW (L: SW ON)
2	TRAY_CLOSE	I	Loading Mecha close SW (L: SW ON)
3	TRAY_CCW	O	Terminal for tray control 1
4	TRAY_CW	O	Terminal for tray control 2
5	CEC-OUT	O	Output port for HDMI
6	F-Hop	O	F_HOP for Digital Amplifier
7	ECHO_1	O	Echo Function
8	BYTE	I	BYTE
9	CNVSS	-	FLASH MODE TERMINAL (Connect to Ground) via 10k Ω
10	Xcin	-	SUB CLOCK INPUT (32.768 kHz)
11	Xcout	-	SUB CLOCK OUTPUT (32.768 kHz)
12	RESET	I	SYSTEM RESET INPUT (ACTIVE L)
13	Xout	-	Main Clock Output (10 MHz)
14	Vss	-	Ground (0V)
15	Xin	-	Main Clock Input (10 MHz)
16	Vcc	-	Power Supply (5V)
17	NMI	-	Connect to Vcc, External Interrupt I/P
18	RMT	I	Remocon Input
19	SYNC	I	AC Failure Detect
20	CEC_IN	I	CEC input
21	ECHO_2	O	Echo Function
22	ECHO_3	O	Echo Function
23	Mic-Lvl 1	O	Mic level control
24	Mic-Lvl 2	O	Mic level control
25	Surr-CTR-A	O	Surround Sound Control
26	Surr-CTR-B	O	Surround Sound Control
27	Front-CTR	O	Front Sound Control
28	DVD-CLK	I	Clock Signal for DVD module
29	DVD-STA	I	Status Signal from DVD module
30	DVD-CMD	O	Command Signal for DVD module
31	FL_DAT	O	FL Data to FL micom
32	RXD	-	No connection
33	FL_CLK	O	FL Clock to FL micom
34	FL_CS	O	FL Chip Select to FL micom
35	TU_DIN	I	Serial Tuner input (Data out from Tuner)
36	TU_DOUT	O	Serial Tuner output (Data into Tuner)
37	TU_CLK	O	Serial Clock Out
38	TU_CS	O	Tuner Chip Select
39	EEP_CLK	O	Clock Signal for EEPROM
40	EEP_CS	O	CHIP SELECT Signal for the EEPROM
41	EFP_EPM	O	For Flash
42	EEP_DAT	O/I	Data Signal for EEPROM
43	REC	O	Deck Recordind control (L: Recording)
44	ECHO Mute	O	Echo Mute
45	N.C.	-	No connection
46	Deck DMT	O	Deck Mute
47	WIDE	O	S.Video output control

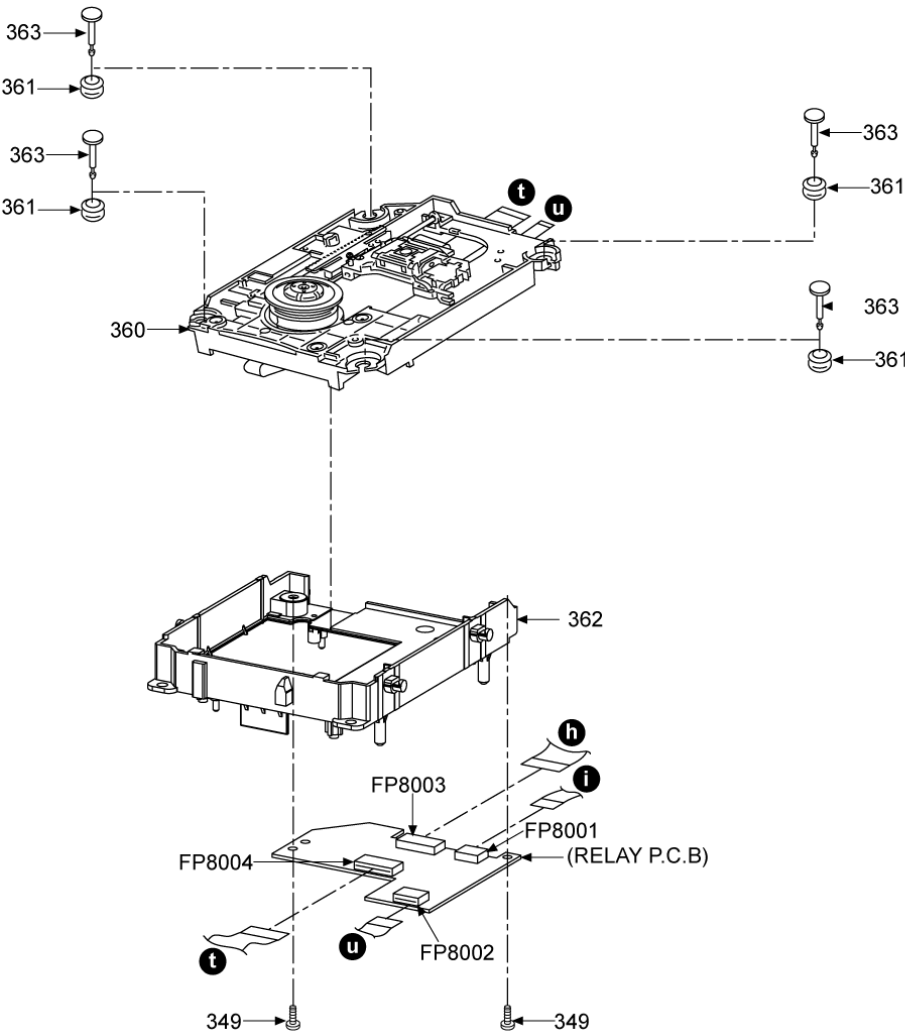
Pin No.	Mark	I/O	Function
48	MOTOR	O	Deck motor control (L: OFF; H: ON)
49	PLUNGER	O	Deck plunger control (L: OFF; H: ON)
50	DVD_Mute	I	DVD Mute Signal
51	Subw 1	-	No connection
52	Subw 2	-	No connection
53	Subw 3	-	No connection
54	Surr-INH-CTR	O	Surround INH control
55	MUTE_L	O	Mute Control Line Out
56	MUTE_W	-	No connection
57	MUTE_HP	O	Mute Control for Head Phone
58	MUTE_C	O	Mute Control for Center Speaker
59	MUTE_S	O	Mute Control for Surround Speaker
60	MUTE_A	O	Mute Control for Front Speaker
61	MUTE_DA	O	Digital Amplifier Mute Signal
62	Vcc	-	POWER SUPPLY (5V)
63	FL_RST	O	FL reset to FL micom
64	Vss	-	Power Supply (0V)
65	RDS_data	-	No connection
66	RDS_clk	-	No connection
67	N.C.	-	No connection
68	DVD_PCONT	O	Power Control for DVD Module
69	DC_DET-2	I	Signal from DC Detect circuit
70	PCONT	O	Control Signal for Power Control Delay
71	F HOP_Mute	O	Mute for F HOP
72	HP_SW	I	Headphone switch
73	MP_SW	I	Music port switch
74	N.C.	-	No connection
75	JOG_B	O	Volume Control B
76	JOG_A	O	Volume Control A
77	SCART_CNT	-	No connection
78	RGB	O	Mute Control for Video output
79	SCART_MUTE	-	No connection
80	DC_DET1	I	Signal from DC Detect circuit
81	MODEL_CS	I	To select model when power on (H: NC9; L: NC6)
82	V-Mute	O	Video-Mute
83	N.C.	-	No connection
84	ASP_DAT	O	ASP Data Signal
85	ASP_CLK	O	ASP Clock Signal
86	REG1	I	Tuner Region Setting 1
87	REG2	I	Tuner Region Setting 2
88	REG3	I	Tuner Region Setting 3
89	DECK_PHOTO	I	Rotation Detection Signal
90	MK_IN-1	I	Mecha condition input 1 (REC_F/HAR_F)
91	MK_IN-2	I	Mecha condition input 2 (MODE/TPS)
92-94	KEY1-KEY3	I	Key 1 to key 3 line input
95	H BASS_SW	O	Harmonic Bass Switch
96	AVss	-	ANALOG POWER SUPPLY INPUT
97	DVD_CS	I	DVD Region Settting
98	Vref	-	REFERENCE VOLTAGE INPUT
99	AVcc	-	ANALOG POWER SUPPLY INPUT

Pin No.	Mark	I/O	Function
100	Brake	O	Terminal for Tray Control 3

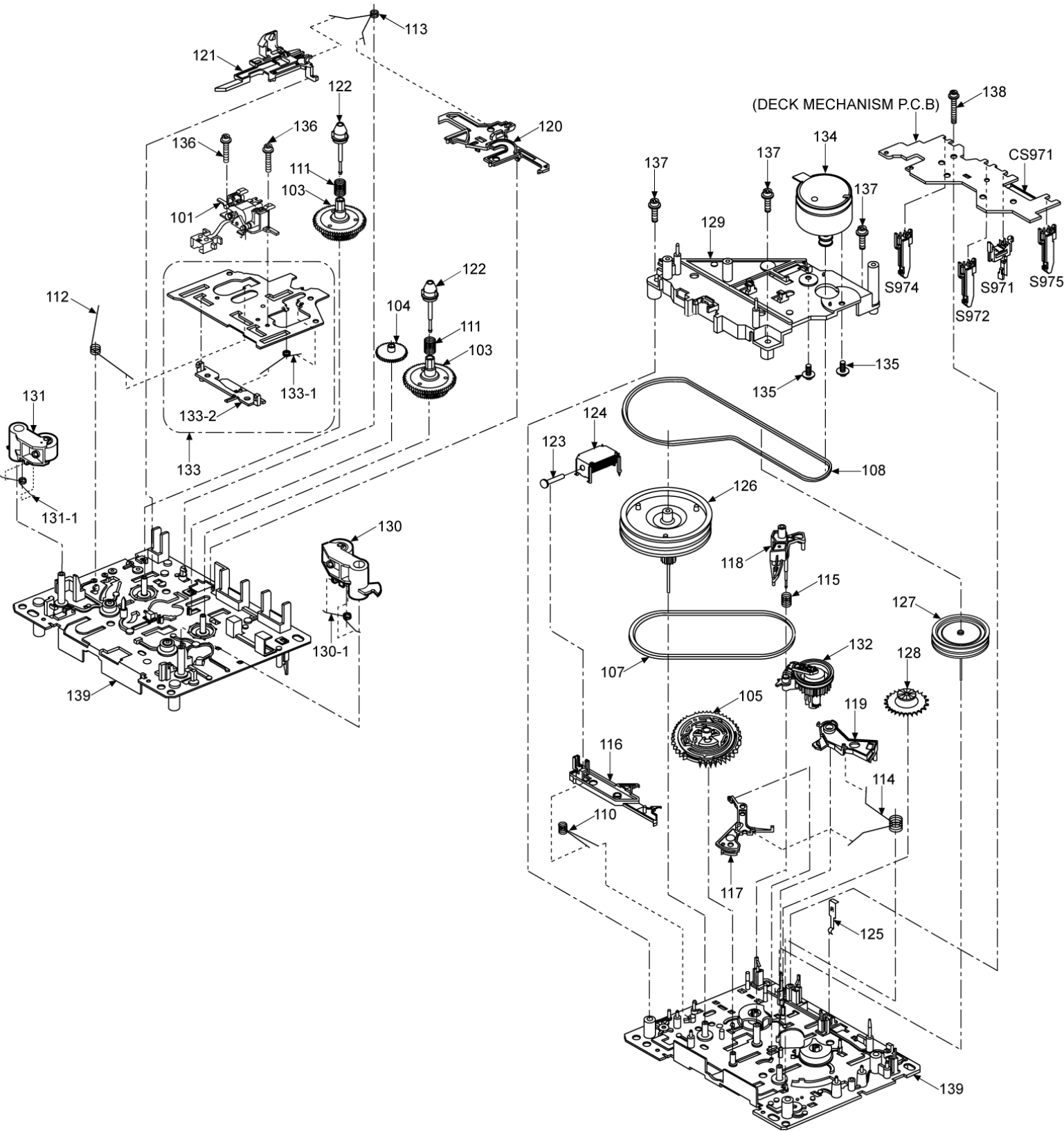




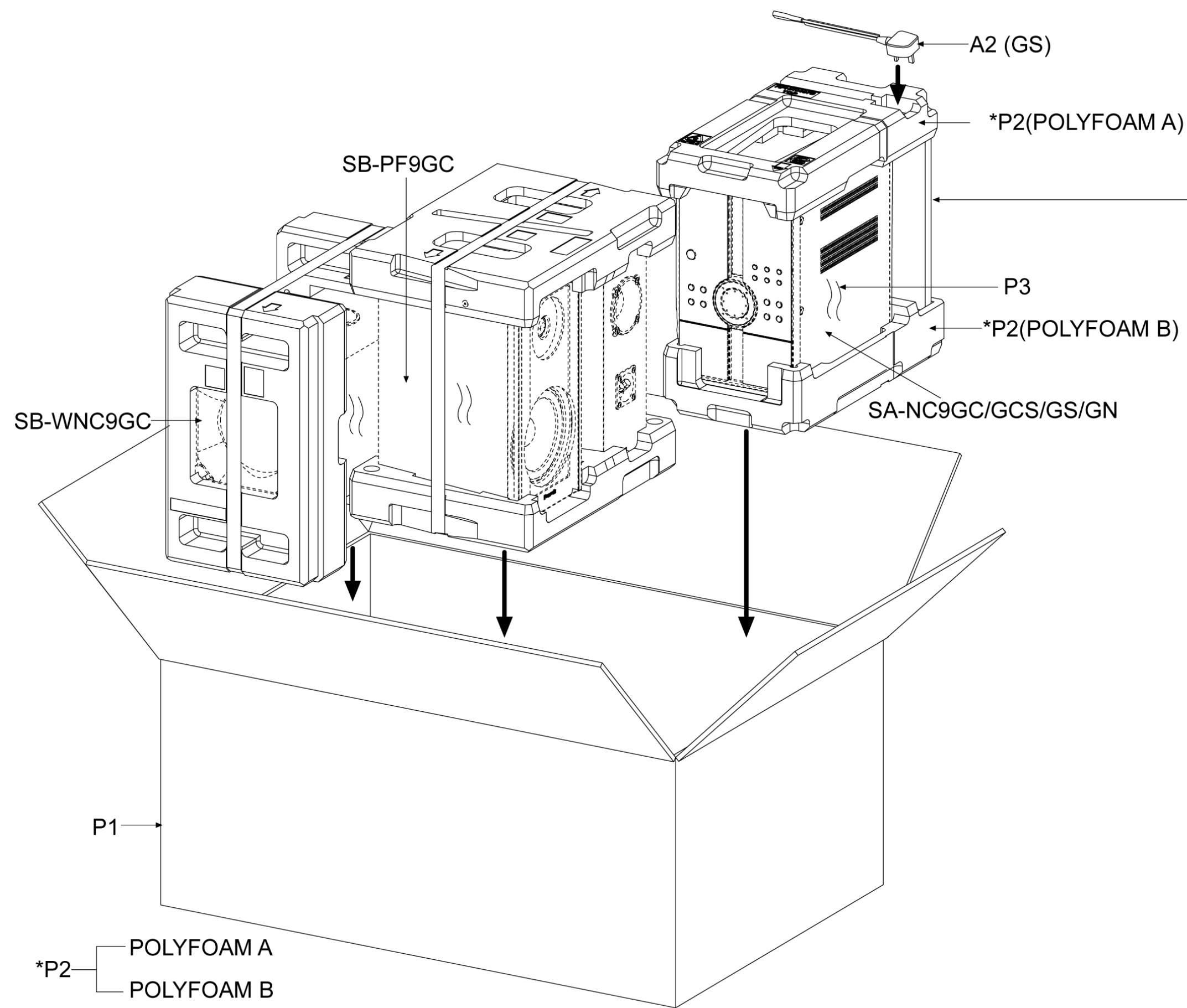
TRAVERSE UNIT

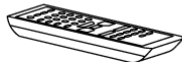
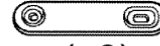


23.2. Deck Mechanism Parts Location (RAA4111-S)



23.3. Packaging



ACCESSORIES BAG		
A1 REMOTE CONTROL		
A2 AC CORD		
A3 O/I BOOK		
A4 VIDEO CABLE		
A5 AM LOOP ANTENNA		
A6 FM ANTENNA WIRE		
A7 MECHA BRACKET ASSY		
A8 ALLEN KEY		
A9 LOCK COVER UNIT		
A10 SPEAKER LABEL SHEET		
A11 SHORT SCREW		
A12 LONG SCREW		
A1	A2 (GC/GS/GCS)	A2 (GN)
		
A3	A4	A5
		
A6	A7 (x6)	A8
		
A9 (x6)	A10 (x6)	A11 (x12)
		
A12 (x4)		
		

24 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] markings in the Remarks columns indicates parts supplied by **PAVCSG**.

- [SPG] markings in the Remarks columns indicates parts that are supplied by **PAVC**.

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

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

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	RGKX0396A-K	CASS ORNAMENT R	[M]
2	RGKX0396-K	CASS ORNAMENT L	[M]
3	RGKX0398-K	CASS ORNAMENT CENTER	[M]
4	RGKX0401-S	VOLUME ORNAMENT	[M]
5	RGLX0143-Q	FUNCTION LIGHT PIECE	[M]
6	J3CCBB000009	TUNER PACK	[M]
7	RKFX0135-S	CASS LID	[M]
8	RKFX0136-K	MIC JACK LID	[M] (GC/GS/GC S)
8	RKFX0136A-K	MIC JACK LID	[M] (GN)
9	RKWX0274-R	FL FILTER	[M]
10	RMBX0061	CASS LID OPEN SPRING	[M]
11	RMBX0067	MIC LID SPRING L	[M]
12	RMBX0068	MIC LID SPRING R	[M]
14	RMQX0236-S	MIC JACK HOLDER	[M]
16	RUS757ZAA	CASSETTE HALF SPRING	[M]
17	RXGX0002	DAMPER GEAR	[M]
18	L6FALEFH0030	FAN	[M]
19	REEX0693	6P FFC WIRE (DVD-RLY)	[M]
20	REEX0694	26P FFC WIRE (DVD-RLY)	[M]
21	REEX0695	21P FFC WIRE (MN-DK)	[M]
22	REEX0697	50P FFC WIRE (MN-DVD)	[M]
23	REEX0698-1	7P FFC WIRE (MN-DVD)	[M]
24	REEX0752	21P FFC WIRE (PAN-MN)	[M]
25	REXX0581	5P WIRE (DVD-USB)	[M]
26	REXX0582	12P WIRE (PWR-SPK)	[M]
27	REXX0597	7P WIRE (MAIN-LOAD.)	[M] (GN/GS/GC S)
28	REXX0598	9P WIRE (POWER-TRAN)	[M]
30	REXX0611	12P WIRE (PAN-TRNS)	[M]
31	REZX0012	15P FFC WIRE (MN-MIC)	[M]
32	RGCX0009-W	LIGHT REFLECTOR	[M]
33	RGPX0283-K	FRONT PANEL	[M] (GC/GS/GC S)
33	RGPX0283A-K	FRONT PANEL	[M] (GN)

Ref. No.	Part No.	Part Name & Description	Remarks
34	RGQX0041-S	FRONT PANEL FRAME L	[M]
35	RGQX0042-S	FRONT PANEL FRAME R	[M]
36	RGRX0063A-A	REAR PANEL	[M] (GC)
36	RGRX0063B-B	REAR PANEL	[M] (GCS)
36	RGRX0063A-C	REAR PANEL	[M] (GN)
36	RGRX0063B-A	REAR PANEL	[M] (GS)
37	RGUX0708-K	MIC BUTTON	[M] (GC/GS/GC S)
38	RGUX0709-K	SOUND EQ BUTTON	[M]
39	RGUX0710-K	CONTROL BUTTON L	[M]
40	RGUX0711-K	CONTROL BUTTON R	[M]
41	RGUX0712-S	FUNCTION BUTTON	[M]
42	RGUX0727-K	POWER BUTTON	[M]
43	RGWX0108-S	VOLUME KNOB	[M]
44	RHD26046	SCREW	[M]
45	RHD30004-K1	SCREW	[M]
46	RHD30111-3	SCREW	[M]
47	RHD30119-S	SCREW	[M]
48	RKA0072-KJ	LEG CUSHION	[M]
49	RKMX0133-K	TOP CABINET (BENT)	[M]
50	RKWX0273-H	FL WINDOW R	[M]
51	RMXX0021	TRANSISTOR CLIP	[M]
52	RMXX0035	HEAT SINK CLIP	[M]
53	RMXX0132	BOTTOM CHASSIS	[M]
54	RMXX0136-K	TOP HOLDER	[M]
55	RMXX0137-K1	BOTTOM BASE	[M]
56	RMXX0019	PCB SPACER	[M]
57	RMXX0222	FL HOLDER	[M]
58	RMVX0111-K	REAL PANEL COVER	[M]
59	RMXX0182	DIG AMP HEAT SINK	[M]
60	RMXX0191	HEAT SINK EXTRUSION	[M]
61	RMXX0191C	HEAT SINK (EXTRUDED)	[M]
62	RMXX0026-1	IC INSULATOR A	[M]
63	RSXX0008-1	MIC S/PLATE UNIT	[M]
64	RXXX0093	TRAN AMP HEAT SINK	[M]
65	RYXX0348-K	DVD LID UNIT	[M]
65-1	RMG0547-K	CUSHION	[M]
66	RYXX0353-H	FL WINDOW L ASSY	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
67	XTB3+10JFJ	SCREW	[M]
68	XTW3+12TFJ	SCREW	[M]
		CASSETTE DECK	
101	RED0064-2	R/P HEAD BLOCK UNIT	[M]
103	RDG0300	REEL BASE GEAR	[M]
104	RDG0301	WINDING RELAY GEAR	[M]
105	RDK0026-4	MAIN GEAR	[M]
107	RDV0033-4	WINDING BELT	[M]
108	RDV0034-2	CAPSTAN BELT A	[M]
110	RMB0312	TRIGGER LEVER SPRING	[M]
111	RMB0400	REEL SPRING	[M]
112	RMB0403	HEAD PANEL SPRING	[M]
113	RMB0404	BRAKE ROD SPRING	[M]
114	RMB0406-5	FR LEVER SPRING	[M]
115	RMB0408	THRUST SPRING	[M]
116	RML0370-4	TRIGGER LEVER	[M]
117	RML0371	FR LEVER	[M]
118	RML0372-2	WINDING LEVER	[M]
119	RML0374-2	EJECT LEVER	[M]
120	RMM0131-1	BRAKE ROD	[M]
121	RMM0133-1	EJECT ROD	[M]
122	RMQ0519	REEL HUB	[M]
123	RMS0398-1	MOVING CORE	[M]
124	RSJ0003	SOLENOID ASS'Y	[M]
125	RMC0061	PACK SPRING	[M]
126	RXF0061-1	FLYWHEEL F ASS'Y	[M]
127	RXF0062-1	FLYWHEEL R ASS'Y	[M]
128	RXG0040	FF RELAY GEAR ASS'Y	[M]
129	RMK0283A-2	SUB-CHASSIS	[M]
130	RXL0124	PINCH ROLLER F ASS'Y	[M]
130-1	RMB0401	PINCH ARM SPRING F	[M]
131	RXL0125	PINCH ROLLER R ASS'Y	[M]
131-1	RMB0402	PINCH ARM SPRING R	[M]
132	RXL0126	WINDING ARM ASS'Y	[M]
133	RXQ0412-3	HEAD PANEL ASS'Y	[M]
133-1	RMB0405-1	FR ROD SPRING	[M]
133-2	RMM0132-1	FR ROD	[M]
134	REM0120	CAP MOTOR ASS'Y	[M]
135	RHD26022-1	MOTOR SCREW	[M]
136	XTW2+5LFJ	HEAD BLOCK UNIT SCREW	[M]
137	XTW26+10SFJ	SUB-CHASSIS SCREW	[M]
138	XYC2+JF17FJ	PCB EARTH SCREW	[M]
139	RFKJSTR280PP	MAIN CHASSIS ASS'Y	[M]
		TRAVERSE DECK	
311	RHM0003-J	MAGNET	[M]
312	RDG0547	PULLEY GEAR	[M]
313	RDG0548-1	RELAY GEAR	[M]
314	RDG0549	DRIVE GEAR	[M]
315	RDV0070	BELT	[M]
316	REM0133	MOTOR UNIT	[M]
317	RGQ0477-Q	TRAY	[M]
318	RGQ0478-Q	SUB-TRAY	[M]
319	RGQ0479-Q	GUIDE TRAY	[M]
320	RHD20061-1	SENSOR LEVER SCREW	[M]
321	RMA1521	SENSOR LEVER	[M]
322	RME0350	CHANGE LEVER SPRING	[M]
323	RME0351	LOCK LEVER SPRING	[M]
324	RME0352	HORIZONTAL LOCK LVR SPRING	[M]
325	RME0353	TRAY SLIDER SPRING	[M]
326	RME0354	GUIDE TRAY SPRING	[M]
327	RME0355	VERTICAL LOCK LEVER	[M]
328	RME0356	CLAMPER SPRING	[M]
329	RMF0308	CLAMPER SHEET	[M]
330	RMF0314-1	UPPER SHEET	[M]
332	RMG0546-A	CLAMP RUBBER	[M]
333	RMK0537A	MECHA CHASSIS	[M]
334	RML0627-2	DRIVE ARM	[M]
335	RML0628	CHANGE LEVER	[M]
336	RML0629	LOCK LEVER	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
337	RML0630	HORIZONTAL LOCK LVR	[M]
338	RML0631	TRAY SLIDER	[M]
339	RML0632	VERTICAL LOCK LEVER	[M]
340	RMM0247-3	DRIVE RACK	[M]
341	RMM0248	SUB RACK	[M]
342	RMM0249	GUIDE PIECE (R)	[M]
343	RMM0250	GUIDE PIECE (L)	[M]
344	RMR1318-K	SPRING HOOK	[M]
345	RMR1321-K	SPRING HOLDER	[M]
346	RMR1423-K1	CLAMP PLATE	[M]
347	RMR1424-X1	CLAMPER	[M]
349	XTN26+6GFJ	SCREW	[M]
350	XTN26+8GFJ	ADDITION SCREW	[M]
351	XWG6FFJ	WASHER	[M]
352	RMC0387	SUPPORT SPRING	[M]
360	RAE2024Z-S	DT6.1J AFTER ALIGN	[M] 
361	RMG0598A-K	FLOATING RUBBER	[M]
362	RMR1596-X2	MIDDLE CHASSIS	[M]
363	RMS0789	FIXED PIN	[M]
364	XTV2+6GFJ	PCB SCREW	[M]
		PRINTED CIRCUIT BOARD	
	REPX0563K	DVD MODULE P.C.B. (SIDE: A)	[M] (RTL) GC/G S
	REPX0563L	DVD MODULE P.C.B. (SIDE: A)	[M] (RTL) GCS
	REPX0563N	DVD MODULE P.C.B. (SIDE: A)	[M] (RTL) GN
	REPX0563K	DVD MODULE P.C.B. (SIDE: B)	[M] (RTL) GC/G S
	REPX0563L	DVD MODULE P.C.B. (SIDE: B)	[M] (RTL) GCS
	REPX0563N	DVD MODULE P.C.B. (SIDE: B)	[M] (RTL) GN
	REPX0592B	MAIN P.C.B.	[M] (RTL) GN
	REPX0592C	MAIN P.C.B.	[M] (RTL) GCS
	REPX0592	MAIN P.C.B.	[M] (RTL) GC/G S
	REPX0593A	PANEL P.C.B.	[M] (RTL) GC/G S/GCS
	REPX0593B	PANEL P.C.B.	[M] (RTL) GN
	REPX0593A	SUB PANEL P.C.B.	[M] (RTL) GC/G S/GCS
	REPX0593B	SUB PANEL P.C.B.	[M] (RTL) GN
	REPX0594A	POWER P.C.B.	[M] (GC/GN) (RTL)
	REPX0594C	POWER P.C.B.	[M] (GCS/GS) (RTL)
	REPX0594A	SPEAKER P.C.B.	[M] (GC/GN) (RTL)
	REPX0594C	SPEAKER P.C.B.	[M] (GCS/GS) (RTL)
	REPX0594A	TRANSFORMER P.C.B.	[M] (GC/GN) (RTL)
	REPX0594C	TRANSFORMER P.C.B.	[M] (GCS/GS) (RTL)
	REPX0594A	SUB HEAT SINK P.C.B.	[M] (GC/GN) (RTL)
	REPX0594C	SUB HEAT SINK P.C.B.	[M] (GCS/GS) (RTL)
	REPX0594A	DECK P.C.B.	[M] (GC/GN) (RTL)

Ref. No.	Part No.	Part Name & Description	Remarks
	REPX0594C	DECK P.C.B.	[M] (GCS/GS) (RTL)
	REPX0321K	DECK MECHANISM P.C.B.	[M] (RTL)
	REPX0604A	RELAY P.C.B.	[M] (RTL)
	REP4238A	TRAY LOADING P.C.B.	[M] (RTL)
		INTEGRATED CIRCUITS	
IC904	C0GAY0000013	IC MOTOR DRIVER	[M]
IC971	CNB13030R2AU	IC PHOTO INTERRUPTER	[M]
IC1000	C1AA00000612	IC ANALOG SWITCH	[M]
IC1001	AN7326K	IC REC/PB	[M]
IC2101	C1AB00002735	IC AUDIO SIGNAL PROCESSOR	[M]
IC2103	C0ABCB000088	IC OP-AMP	[M]
IC2231	C0ABBB000230	IC OP-AMP	[M] (GC/GS/GC S)
IC2340	C0AABB000125	IC HP AMP	[M]
IC2401	C9ZB00000461	IC VIDEO BUFFER	[M]
IC2501	C0ABCB000088	IC OP-AMP	[M]
IC2502	C0JBAR000326	IC CHANNEL SWITCHING	[M]
IC2600	C2CBYY000451	IC MICROPROCESSOR	[M]
IC2652	C0JBAR000002	IC ANALOG SW	[M]
IC2741	C0DAAMH00012	IC SWITCHING REGULATOR	[M]
IC2761	C0CAAKG00046	IC REGULATOR	[M]
IC3901	MN864702A	IC HDMI TRANSMITTER	[M]
IC3952	C0CBCDC00063	IC TERMINAL VOLTAGE REGULATOR	[M]
IC5200	C1AA00000755	IC 2-CH DIGITAL AMP	[M]
IC5300	C1AA00000755	IC 2-CH DIGITAL AMP	[M]
IC5400	C1AA00000755	IC 2-CH DIGITAL AMP	[M]
IC5500	C0JBAB000011	IC INVERTER	[M]
IC6501	C2CBYY000452	IC FL DRIVER	[M]
IC6601	C0HBB0000057	IC FL DRIVER	[M]
IC6931	C1BB00001061	IC ECHO	[M] (GC/GS/GC S)
IC8001	MN2DS0018MP	IC DV5.0 LSI	[M]
IC8051	C3ABPG000145	IC 64MB SDRAM	[M]
IC8111	C0DBZYY00018	IC DC-DC CONVERTER	[M]
IC8151	C0DBEHG00006	IC REGULATOR	[M]
IC8251	C0GBG0000048	IC MOTOR DRIVER	[M]
IC8421	C0FBBK000050	IC AUDIO DAC	[M]
IC8601	C0EBA0000029	IC RESET	[M]
IC8606	C0EBE0000456	IC RESET	[M]
IC8651	RFKWMHB0S320	IC 32M FLASH MEMORIES	[SPG] (GN)
IC8651	RFKWMHB0T320	IC 32M FLASH MEMORIES	[SPG] (GC/GS)
IC8651	RFKWMHB0V320	IC 32M FLASH MEMORIES	[SPG] (GCS)
IC8691	C0JBAA000502	IC AND DATE	[M]
IC8695	C0JBAA000502	IC AND DATE	[M]
IC8701	C0JBAB000907	IC INVERTER	[M]
IC8901	C0JBAA000501	IC AND GATE	[M]
IC9001	C0JBAZ001251	IC LATCH	[M]
IC9002	C0JBAZ001251	IC LATCH	[M]
IC9003	C0JBAB000908	IC DUAL INVERTER	[M]
IC9005	C0DBZYE00002	IC REGULATOR	[M]
		TRANSISTORS	
Q1101	B1ABGC000001	TRANSISTOR	[M]
Q1103	B1ABGC000001	TRANSISTOR	[M]
Q1201	B1ABGC000001	TRANSISTOR	[M]
Q1203	B1ABGC000001	TRANSISTOR	[M]
Q1302	B1GDCFJJ0002	TRANSISTOR	[M]
Q1303	B1GBCFGH0001	TRANSISTOR	[M]
Q1304	B1GDCFJH0002	TRANSISTOR	[M]
Q1306	B1ABCF000011	TRANSISTOR	[M]
Q1307	B1ABCF000011	TRANSISTOR	[M]
Q1309	B1AAGC000007	TRANSISTOR	[M]
Q1310	B1AAGC000007	TRANSISTOR	[M]
Q1312	B1ABCF000011	TRANSISTOR	[M]
Q1314	B1GDCFJH0002	TRANSISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
Q1315	B1ACKD000006	TRANSISTOR	[M]
Q1316	2SD09650RA	TRANSISTOR	[M]
Q1317	B1ABGC000001	TRANSISTOR	[M]
Q2021	B1ABGC000005	TRANSISTOR	[M]
Q2022	B1ABGC000005	TRANSISTOR	[M]
Q2025	B1GDCFJA0018	TRANSISTOR	[M]
Q2041	B1GBCFJN0033	TRANSISTOR	[M]
Q2061	B1GBCFJJ0051	TRANSISTOR	[M]
Q2062	B1GBCFJJ0051	TRANSISTOR	[M]
Q2221	B1ABGC000005	TRANSISTOR	[M]
Q2222	B1ABGC000005	TRANSISTOR	[M]
Q2234	B1ABCF000176	TRANSISTOR	[M] (GC/GS/GC S)
Q2235	B1GDCFJJ0047	TRANSISTOR	[M] (GC/GS/GC S)
Q2236	B1ABCF000176	TRANSISTOR	[M] (GC/GS/GC S)
Q2237	B1GDCFJJ0047	TRANSISTOR	[M] (GC/GS/GC S)
Q2238	B1ABCF000176	TRANSISTOR	[M] (GC/GS/GC S)
Q2263	B1GBCFJJ0051	TRANSISTOR	[M] (GC/GS/GC S)
Q2265	B1GBCFJJ0051	TRANSISTOR	[M] (GC/GS/GC S)
Q2266	B1GBCFJJ0051	TRANSISTOR	[M] (GC/GS/GC S)
Q2267	B1GBCFJJ0051	TRANSISTOR	[M] (GC/GS/GC S)
Q2305	B1ABGC000005	TRANSISTOR	[M]
Q2306	B1ABGC000005	TRANSISTOR	[M]
Q2365	B1ABGC000005	TRANSISTOR	[M]
Q2366	B1ABGC000005	TRANSISTOR	[M]
Q2371	B1GDCFJA0018	TRANSISTOR	[M]
Q2413	B1GBCFJN0033	TRANSISTOR	[M]
Q2414	B1GBCFJN0033	TRANSISTOR	[M]
Q2415	B1GBCFJN0033	TRANSISTOR	[M]
Q2600	B1GDCFJA0018	TRANSISTOR	[M]
Q2620	B1ABCF000176	TRANSISTOR	[M]
Q2624	B1ABGC000005	TRANSISTOR	[M]
Q2631	B1ABCF000176	TRANSISTOR	[M]
Q2639	B1ABGC000005	TRANSISTOR	[M]
Q2642	B1GDCFJA0018	TRANSISTOR	[M]
Q2704	B1BCCG000002	TRANSISTOR	[M]
Q2707	B1BCCG000002	TRANSISTOR	[M]
Q2708	B1ADCE000012	TRANSISTOR	[M]
Q2709	B1AACF000064	TRANSISTOR	[M]
Q2741	B1GBCFJN0033	TRANSISTOR	[M]
Q2754	B1BACG000048	TRANSISTOR	[M]
Q2765	B1AAKD000012	TRANSISTOR	[M]
Q2771	B1ADCF000001	TRANSISTOR	[M]
Q2772	B1GBCFJJ0051	TRANSISTOR	[M]
Q2784	B1ABCF000176	TRANSISTOR	[M]
Q2785	B1ABCF000176	TRANSISTOR	[M]
Q2786	B1ACKD000006	TRANSISTOR	[M]
Q2787	B1ABCF000176	TRANSISTOR	[M]
Q2802	B1GBCFJN0033	TRANSISTOR	[M]
Q2803	B1ACCF000094	TRANSISTOR	[M]
Q2804	B1GBCFLL0037	TRANSISTOR	[M]
Q2843	B1GDCFJA0018	TRANSISTOR	[M]
Q2845	B1GDCFJA0018	TRANSISTOR	[M]
Q2852	2SD0601AHL	TRANSISTOR	[M]
Q2853	2SD0601AHL	TRANSISTOR	[M]
Q2857	B1GBCFJN0033	TRANSISTOR	[M]
Q2861	B1GBCFJJ0051	TRANSISTOR	[M]
Q2862	B1GBCFJJ0051	TRANSISTOR	[M]
Q3901	2SD1819A0L	TRANSISTOR	[M]
Q3902	B1CFHA000002	TRANSISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
Q3903	B1CFHA000002	TRANSISTOR	[M]
Q3941	2SD1819A0L	TRANSISTOR	[M]
Q3942	2SD1819A0L	TRANSISTOR	[M]
Q3943	2SD1819A0L	TRANSISTOR	[M]
Q5101	B1ABCF000176	TRANSISTOR	[M]
Q5102	B1ABCF000176	TRANSISTOR	[M]
Q5108	B1ABCF000176	TRANSISTOR	[M]
Q5109	2SB0709AHL	TRANSISTOR	[M]
Q5110	B1GACFGA0002	TRANSISTOR	[M]
Q5111	B1BACG000023	TRANSISTOR	[M]
Q5601	B1ABCF000176	TRANSISTOR	[M]
Q5602	B1ABCF000176	TRANSISTOR	[M]
Q5603	B1ADCE000012	TRANSISTOR	[M]
Q5604	B1ABCF000176	TRANSISTOR	[M]
Q5621	B1ABCF000176	TRANSISTOR	[M]
Q5631	B1GDCFJJ0047	TRANSISTOR	[M]
Q5901	B1DEGM000026	TRANSISTOR	[M]
Q5902	B1DEGM000026	TRANSISTOR	[M]
Q5903	B1GBCFJJ0051	TRANSISTOR	[M]
Q5904	B1GBCFJJ0051	TRANSISTOR	[M]
Q5950	B1AAKD000014	TRANSISTOR	[M]
Q5951	2SB0621AHA	TRANSISTOR	[M]
Q5952	B1GBCFJJ0051	TRANSISTOR	[M]
Q5953	B1ABCF000176	TRANSISTOR	[M]
Q5954	B1AAKD000012	TRANSISTOR	[M] (GCS)
Q5984	B1BABL000017	TRANSISTOR	[M]
Q6401	B1GBCFJJ0051	TRANSISTOR	[M]
Q6413	B1GBCFJJ0051	TRANSISTOR	[M]
Q6551	B1GBCFJJ0051	TRANSISTOR	[M]
Q6702	B1GBCFJJ0051	TRANSISTOR	[M]
Q6881	B1ABCF000176	TRANSISTOR	[M]
Q6902	B1ABCF000176	TRANSISTOR	[M] (GC/GS/GC S)
Q6903	B1ABCF000176	TRANSISTOR	[M] (GC/GS/GC S)
Q6907	B1ABCF000176	TRANSISTOR	[M] (GC/GS/GC S)
Q8321	2SB1218ARL	TRANSISTOR	[M] (GC/GS/GC S)
Q8325	2SB1218ARL	TRANSISTOR	[M]
Q8331	2SB1218ARL	TRANSISTOR	[M]
Q8335	2SB1218ARL	TRANSISTOR	[M]
Q8341	2SB1218ARL	TRANSISTOR	[M]
Q8551	2SD1819A0L	TRANSISTOR	[M]
Q8552	B1ADGB000008	TRANSISTOR	[M]
Q8561	2SD1819A0L	TRANSISTOR	[M]
Q8562	B1ADGB000008	TRANSISTOR	[M]
QR8111	XP0621400L	CHIP TRANSISTOR	[M]
QR8420	UNR521100L	CHIP TRANSISTOR	[M]
QR8571	UNR511V00L	CHIP TRANSISTOR	[M]
		DIODES	
D971	MA2C16500E	DIODE	[M]
D1301	B0ACCK000005	DIODE	[M]
D2069	B0ACCK000005	DIODE	[M]
D2071	B0EAKM000117	DIODE	[M]
D2072	B0EAKM000117	DIODE	[M]
D2235	B0ACCK000005	DIODE	[M] (GC/GS/GC S)
D2237	B0ACCK000005	DIODE	[M] (GC/GS/GC S)
D2239	B0ACCK000005	DIODE	[M] (GC/GS/GC S)
D2413	B0JCAE000001	DIODE	[M]
D2611	B0ACCK000005	DIODE	[M]
D2703	B0BC6R700006	DIODE	[M]
D2707	B0EAKM000117	DIODE	[M]
D2755	B0BC3R4A0006	DIODE	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
D2761	B0EAKM000117	DIODE	[M]
D2762	B0EAKM000117	DIODE	[M]
D2763	B0EAKM000117	DIODE	[M]
D2764	B0EAKM000117	DIODE	[M]
D2765	B0BC5R600003	DIODE	[M]
D2766	ERJ3GEY0R00V	DIODE	[M]
D2768	ERJ3GEY0R00V	DIODE	[M]
D2781	B0ADCJ000020	DIODE	[M]
D2783	B0BC5R600003	DIODE	[M]
D2800	B0JAME000114	DIODE	[M]
D2804	B0ACCK000005	DIODE	[M]
D2843	B0ACCK000005	DIODE	[M]
D2857	B0EAKM000117	DIODE	[M]
D2858	B0EAKM000117	DIODE	[M]
D2861	B0ADCC000002	DIODE	[M]
D2863	B0BC013A0007	DIODE	[M]
D3901	MA2J72800L	DIODE	[M]
D5101	B0BC01200019	DIODE	[M]
D5102	B0BC027A0209	DIODE	[M]
D5103	B0BC4R0A0006	DIODE	[M]
D5104	B0BC01200019	DIODE	[M]
D5105	B0BC02400011	DIODE	[M]
D5107	B0BC01200019	DIODE	[M]
D5121	B0EAKM000117	DIODE	[M]
D5122	B0EAKM000117	DIODE	[M]
D5551	B0ACCE000003	DIODE	[M]
D5561	B0ACCE000003	DIODE	[M]
D5571	B0BC5R000009	DIODE	[M]
D5744	B0JCAE000001	DIODE	[M] 
D5950	B0EAMM000038	DIODE	[M]
D5951	B0EAMM000038	DIODE	[M]
D5952	B0EAMM000038	DIODE	[M]
D5953	B0EAMM000038	DIODE	[M]
D5954	B0EAKM000117	DIODE	[M]
D5955	B0EAKM000117	DIODE	[M]
D5956	B0EAKM000117	DIODE	[M]
D5957	B0EAKM000117	DIODE	[M]
D5958	B0EAKM000117	DIODE	[M]
D5959	B0EAKM000117	DIODE	[M]
D5960	B0BC02400011	DIODE	[M]
D5961	B0EAKM000117	DIODE	[M]
D5962	B0EAKM000117	DIODE	[M]
D5963	B0EAKM000117	DIODE	[M] (GC)
D5964	B0BC6R700006	DIODE	[M]
D5965	B0ACCK000005	DIODE	[M]
D5966	B0EAKM000117	DIODE	[M]
D5967	B0EAKM000117	DIODE	[M] (GCS)
D5968	B0ACCK000005	DIODE	[M] (GCS)
D5969	B0ACCK000005	DIODE	[M] (GCS)
D5970	B0EAMM000038	DIODE	[M]
D5971	B0EAMM000038	DIODE	[M]
D5972	B0EAMM000038	DIODE	[M]
D5973	B0EAMM000038	DIODE	[M]
D5974	B0EAKM000117	DIODE	[M]
D5975	B0EAKM000117	DIODE	[M]
D5976	B0EAKM000117	DIODE	[M]
D5977	B0EAKM000117	DIODE	[M]
D5981	B0EAKM000117	DIODE	[M]
D5982	B0EAKM000117	DIODE	[M]
D5983	B0BC02400011	DIODE	[M]
D5984	B0BC02400011	DIODE	[M]
D5986	B0EAKM000117	DIODE	[M] (GC)
D5987	B0EAKM000117	DIODE	[M] (GC)
D6401	B3AEA0000099	DIODE	[M]
D6431	B3AAA0000803	DIODE	[M]
D6551	B0BC026A0007	DIODE	[M]
D6552	B0BC026A0007	DIODE	[M]
D6704	B0BC5R600003	DIODE	[M]
D6705	B0BC4R600016	DIODE	[M]
D6807	B0BC6R700006	DIODE	[M]
D6930	B0BC5R000009	DIODE	[M] (GC/GS/GC S)
D8211	MA2J11100L	DIODE	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
D8571	MA2J72800L	DIODE	[M]
DW2741	B0ADCJ000020	DUAL CHIP DIODE	[M]
DW2801	B0ADCJ000020	DUAL CHIP DIODE	[M]
DW2810	B0ADCJ000020	DUAL CHIP DIODE	[M]
DZ2088	B0BC9R000008	CHIP DIODE	[M]
DZ2741	B0JCPD000025	SCHOTTKY DIODE	[M]
		VARIABLE RESISTOR	
VR6701	EVEGE1F2512M	VR VOLUME JOG	[M]
VA3901	EZAEG2A50AX	ESD SUPPRESSOR	[M]
VA3902	EZAEG2A50AX	ESD SUPPRESSOR	[M]
VA3903	EZAEG2A50AX	ESD SUPPRESSOR	[M]
VA3904	EZAEG2A50AX	ESD SUPPRESSOR	[M]
VA3905	EZAEG2A50AX	ESD SUPPRESSOR	[M]
VA3906	EZAEG2A50AX	ESD SUPPRESSOR	[M]
VA3907	EZAEG2A50AX	ESD SUPPRESSOR	[M]
VA3908	EZAEG2A50AX	ESD SUPPRESSOR	[M]
VA3909	EZJZ0V800AA	VARISTOR	[M]
VA3910	EZJZ0V800AA	VARISTOR	[M]
VA3911	EZJZ0V800AA	VARISTOR	[M]
VA3912	EZJZ0V800AA	VARISTOR	[M]
VA3913	EZJZ0V800AA	VARISTOR	[M]
VA9001	EZJZ1V171AA	VARISTOR	[M]
VA9002	EZJZ1V171AA	VARISTOR	[M]
		SWITCHES	
S901	RSH1A044-1A	SW PLAY	[M]
S902	RSH1A044-1A	SW OPEN	[M]
S971	K0J1BB000017	SW MODE	[M]
S972	K0J1BB000021	SW HALF	[M]
S974	K0J1BB000021	SW RECINH_R	[M]
S975	K0J1BB000021	SW RECINH_F	[M]
S5950	K0ABLB000003	SW AC VOLTAGE SELECTOR	[M]GS/GCS △
S6101	EVQ21405R	SW POWER	[M]
S6102	EVQ21405R	SW DISPLAY/-DEMO	[M]
S6103	EVQ21405R	SW RECORD	[M]
S6104	EVQ21405R	SW DECK EJECT	[M]
S6105	EVQ21405R	SW AUX/MUSIC PORT	[M]
S6106	EVQ21405R	SW DVD/CD	[M]
S6201	EVQ21405R	SW REW	[M]
S6202	EVQ21405R	SW FWD	[M]
S6203	EVQ21405R	SW STOP	[M]
S6204	EVQ21405R	SW DISC EJECT	[M]
S6205	EVQ21405R	SW DOWN	[M]
S6206	EVQ21405R	SW MANUAL EQ	[M]
S6207	EVQ21405R	SW ENTER	[M]
S6208	EVQ21405R	SW SOUND	[M]
S6209	EVQ21405R	SW UP	[M]
S6210	EVQ21405R	SW FI-MODE SUBW	[M]
S6301	EVQ21405R	SW USB	[M]
S6302	EVQ21405R	SW TUNER/BAND	[M]
S6303	EVQ21405R	SW TAPE	[M]
S6305	EVQPC105K	SW MIC LEVEL (UP)	[M] (GC/GS/GCS)
S6306	EVQPC105K	SW MIC LEVEL (DOWN)	[M] (GC/GS/GCS)
		CONNECTORS	
CN1305	K1MN21B00010	21P FFC CONNECTOR	[M]
CN2036	K1MY50AA0029	50P CONNECTOR	[M]
CN2081	K1KA10AA0031	10P CONNECTOR	[M]
CN2600	K1MN08AA0003	8P CONNECTOR	[M]
CN2602	K1MN21A00031	21P CONNECTOR	[M]
CN2603	K1MN15AA0003	15P CONNECTOR	[M]
CN2810	K1KA02AA0186	2P CONNECTOR	[M]
CN2851	K1MN07AA0003	7P FFC CONNECTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
CN2857	K1KA07AA0193	7P CONNECTOR	[M]
CN2861	K1MN21A00031	21P CONNECTOR	[M]
CN5051	K1KA12AA0424	12P CONNECTOR	[M]
CN5052	K1KA07AA0297	7P CONNECTOR	[M]
CN5101	K1KA12AA0319	12P CONNECTOR	[M]
CN5910	K1KA12AA0194	12P CONNECTOR	[M]
CN5950	K1KA09AA0319	9P CONNECTOR	[M]
CN5951	K1KA11AA0194	11P CONNECTOR	[M]
CN6701	K1MN15AA0003	15P CONNECTOR	[M]
CN6703	K1MN21A00031	21P CONNECTOR	[M]
CN7002	K1FY104B0011	USB CONNECTOR	[M]
CN9002	K1KA05AA0193	5P CONNECTOR	[M]
CP1301	K1MY05AA0043	5P CONNECTOR	[M]
CP1902	K1KA09BA0153	9P CONNECTOR	[M]
CS901	K1KA07BA0061	7P CONNECTOR	[M]
CS971	RJU071H09M1	9P CONNECTOR	[M]
CNP2370	K1KB12B00036	12P CONNECTOR	[M]
CNP2810	K1KB07B00020	7P CONNECTOR	[M]
FP3902	K1MN07BA0148	7P CONNECTOR	[M]
FP5920	K5G103A00019	FUSE PROTECTOR	[M] △
FP5940	K5G103A00019	FUSE PROTECTOR	[M] △
FP5950	K5G502A00039	FUSE PROTECTOR	[M] △
FP8001	K1MN06BA0147	6P CONNECTOR	[M]
FP8002	K1MN06BA0148	6P CONNECTOR	[M]
FP8003	K1MY26BA0053	26P CONNECTOR	[M]
FP8004	K1MY26BA0030	26P FFC CONNECTOR	[M]
FP8101	K1MN50BA0173	50P CONNECTOR	[M]
FP8251	K1MN06AA0076	6P CONNECTOR	[M]
FP8531	K1MY26AA0021	26P CONNECTOR	[M]
FP9001	K1KA05BA0014	5P CONNECTOR	[M]
P3901	K1FY119E0002	23P HDMI CONNECTOR	[M]
		COILS & TRANSFORMERS	
L1301	G2ZZ00000024	BIAS OSC COIL	[M]
L1302	G0C470JA0052	RF CHOKE COIL	[M]
L2001	G0C220JA0055	COIL	[M]
L2061	ERJ3GEY0R00V	CHIP JUMPER	[M]
L2062	ERJ3GEY0R00V	CHIP JUMPER	[M]
L2095	J0JBC0000019	CHIP INDUCTOR	[M]
L2367	J0JBC0000019	CHIP INDUCTOR	[M]
L2368	J0JBC0000019	CHIP INDUCTOR	[M]
L2371	J0JBC0000019	CHIP INDUCTOR	[M]
L2400	J0JBC0000015	CHIP INDUCTOR	[M]
L2406	J0JBC0000015	CHIP INDUCTOR	[M]
L2407	J0JBC0000015	CHIP INDUCTOR	[M]
L2408	J0JBC0000015	CHIP INDUCTOR	[M]
L2409	J0JBC0000015	CHIP INDUCTOR	[M]
L2410	G0A200D00002	COIL	[M]
L2411	G0C220JA0055	COIL	[M]
L2429	J0JBC0000015	CHIP INDUCTOR	[M]
L2742	G0A200D00002	COIL	[M]
L2743	G0A101ZA0028	COIL	[M]
L2746	G0A200D00002	COIL	[M]
L2747	G0A200D00002	COIL	[M]
L2750	G0A200D00002	COIL	[M]
L2754	G0A200D00002	COIL	[M]
L2799	G0A101EA0017	COIL	[M]
L2810	G0C3R3JA0027	COIL	[M]
L3903	J0MAB0000170	FILTER	[M]
L3904	J0MAB0000170	FILTER	[M]
L3905	J0MAB0000170	FILTER	[M]
L3906	J0MAB0000170	FILTER	[M]
L5251	J0JKB0000020	EMI BEAD CORE	[M]
L5252	J0JKB0000020	EMI BEAD CORE	[M]
L5270	G0A150L00003	LINE CHOKE COIL	[M]
L5271	G0B9R5K00001	COIL	[M]
L5272	G0B9R5K00001	COIL	[M]
L5351	J0JKB0000020	EMI BEAD CORE	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
L5352	J0JKB0000020	EMI BEAD CORE	[M]
L5370	G0A150L00003	LINE CHOKE COIL	[M]
L5371	G0B9R5K00001	COIL	[M]
L5372	G0B9R5K00001	COIL	[M]
L5451	J0JKB0000020	EMI BEAD CORE	[M]
L5452	J0JKB0000020	EMI BEAD CORE	[M]
L5470	G0A150L00003	LINE CHOKE COIL	[M]
L5471	G0B9R5K00001	COIL	[M]
L5472	G0B9R5K00001	COIL	[M]
L5500	J0JKB0000020	EMI BEAD CORE	[M]
L5501	J0JKB0000020	EMI BEAD CORE	[M]
L5950	ELF15N035AN	LINE FILTER	[M] △
L5951	ELF15N035AN	LINE FILTER	[M] △
L6087	J0JCC0000120	CHIP INDUCTOR	[M] (GC/GS/GC S)
L6531	J0JCC0000120	CHIP INDUCTOR	[M]
L6701	G0C101JA0052	INDUCTOR	[M]
L6801	G0C101JA0052	INDUCTOR	[M]
L6802	G0C101JA0052	INDUCTOR	[M]
L6803	G0C100JA0052	INDUCTOR	[M]
L6804	G0C100JA0052	INDUCTOR	[M]
L6811	G0C101JA0052	INDUCTOR	[M]
L6812	G0C101JA0052	INDUCTOR	[M]
L6901	G0C101JA0052	INDUCTOR	[M] (GC/GS/GC S)
L6902	G0C100JA0052	INDUCTOR	[M] (GC/GS/GC S)
L6903	G0C100JA0052	INDUCTOR	[M]
L6904	G0C100JA0052	INDUCTOR	[M] (GC/GS/GC S)
L8201	G1C100K00019	CHIP COIL	[M]
L8301	G1C100K00019	CHIP COIL	[M]
L8302	G1C100K00019	CHIP COIL	[M]
L8303	G1C100K00019	CHIP COIL	[M]
L8330	G1C100K00019	CHIP COIL	[M]
L8501	G1C100K00019	CHIP COIL	[M]
L8550	G1C100KA0055	CHIP INDUCTOR	[M]
L9005	G1BYYYB00009	CHIP INDUCTOR	[M]
LB3901	J0JHC0000045	CHIP CAPACITOR	[M]
LB3902	J0JHC0000045	CHIP CAPACITOR	[M]
LB3903	J0JCC0000119	CHIP INDUCTOR	[M]
LB3904	J0JCC0000119	CHIP INDUCTOR	[M]
LB3905	J0JCC0000119	CHIP INDUCTOR	[M]
LB3906	J0JCC0000119	CHIP INDUCTOR	[M]
LB3907	J0JHC0000045	CHIP CAPACITOR	[M]
LB3908	J0JHC0000045	CHIP CAPACITOR	[M]
LB8001	J0JHC0000045	CHIP CAPACITOR	[M]
LB8011	J0JHC0000045	CHIP CAPACITOR	[M]
LB8257	ERJ3GEY0R00V	CHIP JUMPER	[M]
LB8258	ERJ3GEY0R00V	CHIP JUMPER	[M]
LB8259	ERJ3GEY0R00V	CHIP JUMPER	[M]
LB8260	ERJ3GEY0R00V	CHIP JUMPER	[M]
LB8301	J0JBC0000042	CHIP BEAD	[M]
LB8302	J0JBC0000042	CHIP BEAD	[M]
LB8303	J0JBC0000042	CHIP BEAD	[M]
LB8304	J0JBC0000042	CHIP BEAD	[M]
LB8305	J0JBC0000042	CHIP BEAD	[M]
LB8401	J0JBC0000042	CHIP BEAD	[M]
LB8421	ERJ2GE0R00X	CHIP JUMPER	[M]
LB8422	ERJ2GE0R00X	CHIP JUMPER	[M]
LB8423	ERJ2GE0R00X	CHIP JUMPER	[M]
LB8424	ERJ2GE0R00X	CHIP JUMPER	[M]
LB8425	ERJ2GE0R00X	CHIP JUMPER	[M]
LB8426	ERJ2GE0R00X	CHIP JUMPER	[M]
LB8427	ERJ2GE0R00X	CHIP JUMPER	[M]
LB8428	ERJ2GE0R00X	CHIP JUMPER	[M]
LB8429	ERJ2GE0R00X	CHIP JUMPER	[M]
LB8431	ERJ2GE0R00X	CHIP JUMPER	[M]
LB8491	ERJ2GE0R00X	CHIP JUMPER	[M]
LB8530	J0JHC0000045	CHIP CAPACITOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
LB8531	ERJ2GE0R00X	CHIP JUMPER	[M]
LB8551	J0JBC0000042	CHIP BEAD	[M]
LB8561	J0JBC0000042	CHIP BEAD	[M]
LB8571	J0JBC0000042	CHIP BEAD	[M]
LB8690	J0JBC0000044	HIGH LOSS INDUCTOR	[M]
LB8691	ERJ2GEJ101X	CHIP RESISTOR	[M]
LB8692	ERJ2GEJ101X	CHIP RESISTOR	[M]
LB8693	ERJ2GEJ101X	CHIP RESISTOR	[M]
LB8701	J0JBC0000044	HIGH LOSS INDUCTOR	[M]
LB8702	J0JBC0000044	HIGH LOSS INDUCTOR	[M]
LB9001	J0JCC0000119	CHIP INDUCTOR	[M]
LB9001	J0JHC0000034	CHIP FERRITE BEAD	[M]
LB9002	J0JHC0000034	CHIP FERRITE BEAD	[M]
T5950	G4CYAYY00141	TRANSFORMER	[M] △
T5951	G4C2AAJ00005	BACK-UP TRANSFORMER	[M] △
		COMPONENT COMBINATIONS	
Z971	RGSD12A1445T	CRYSTAL	[M]
Z5000	K4CZ01000027	TERMINAL	[M]
Z5400	K4CZ01000027	TERMINAL	[M]
Z5950	ERZV10V511CS	ZENER	[M] △
Z6702	B3RAB0000025	REMOTE SENSOR	[M]
ZJ5410	K4CZ01000027	TERMINAL	[M]
		RELAY	
RL5950	K6B1AEA00003	MAGNETRELAYS	[M] △
		OSCILLATORS	
X2001	H2B100500004	CERAMIC RESONATORS	[M]
X2911	H0A327200115	CRYSTAL	[M]
X5551	H2A415300001	CERAMIC RESISTOR	[M]
X5561	H2A375300003	CERAMIC RESISTOR	[M]
X6511	H2B100500004	CERAMIC RESONATOR	[M]
X8621	H0J270500085	CRYSTAL	[M]
X9004	H1A4805B0027	CRYSTAL	[M]
		DISPLAY TUBES	
FL6101	A2BC00000072	FL	[M]
FL6201	A2BD00000173	FL	[M]
FL8101	F1H0J1050018	INDUCTOR	[M]
FL8102	F1H0J1050018	INDUCTOR	[M]
FL8103	F1H0J1050018	INDUCTOR	[M]
FL8104	F1J1E1040022	INDUCTOR	[M]
FL8421	F1H0J1050018	INDUCTOR	[M]
		FUSES	
F1	K5D252BLA013	2.5A FUSE	[M] (GC/GN) △
F1	K5D502BLA013	FUSE	[M] (GCS/GS) △
F2	K5D252BLA013	2.5A FUSE	[M] (GCS/GS) △
		FUSE HOLDERS	
FC1	EYF52BCY	FUSE HOLDER	[M]
FC2	EYF52BCY	FUSE HOLDER	[M]
FC3	EYF52BCY	FUSE HOLDER	[M] (GCS/GS)
FC4	EYF52BCY	FUSE HOLDER	[M] (GCS/GS)
		HOLDERS	
H2710	K1YZ12000001	12P WIRE HOLDER	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
H5102	K1YF12000002	12P WIRE HOLDER	[M]
H5104	K1YF09000001	9P WIRE HOLDER	[M]
H5604	K1YF12000002	12P WIRE HOLDER	[M]
H5605	K1YF12000002	12P WIRE HOLDER	[M]
H6555	K1YZ11000002	11P CABLE HOLDER	[M]
		JACKS	
JK2401	K2HA2YYB0006	JK COMBO	[M]
JK5001	K4AA08B00017	JK 8P SPK (SUR/FRT)	[M]
JK5002	K4AA04B00023	JK 4P SPK (CTR/WFR)	[M]
JK5950	K2AA2B000011	JK AC INLET	[M] △
JK6801	K2HC1YYB0033	JK HP	[M]
JK6802	K2HC1YYB0032	JK MUSIC PORT	[M]
JK6901	K2HB102J0038	JK MIC 2	[M] (GC/GS/GC S)
JK6902	K2HB102J0038	JK MIC 1	[M] (GC/GS/GC S)
		WIRES	
W2501	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2504	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2505	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2508	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2509	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2510	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2511	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2512	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2513	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2514	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2515	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2516	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2517	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2518	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2519	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2520	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2521	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2523	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2524	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2531	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2533	ERJ8GEY0R00V	CHIP RESISTOR	[M]
W2534	ERJ8GEY0R00V	CHIP RESISTOR	[M]
W2537	ERJ8GEY0R00V	CHIP RESISTOR	[M]
W2538	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2539	ERJ8GEY0R00V	CHIP RESISTOR	[M]
W2540	ERJ8GEY0R00V	CHIP RESISTOR	[M]
W2546	ERJ8GEY0R00V	CHIP RESISTOR	[M]
W2552	ERJ8GEY0R00V	CHIP RESISTOR	[M]
W2553	ERJ8GEY0R00V	CHIP RESISTOR	[M]
W2558	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2576	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2577	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2585	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2710	REXX0599	12P WIRE (MAIN-TRAN)	[M]
W2811	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2815	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2823	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2824	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2826	ERJ3GEY0R00V	CHIP JUMPER	[M]
W2830	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2832	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2834	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W5104	ERJ3GEY0R00V	CHIP JUMPER	[M]
W5107	ERJ3GEY0R00V	CHIP JUMPER	[M]
W5109	ERJ3GEY0R00V	CHIP JUMPER	[M]
W5905	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W5933	ERJ3GEY0R00V	CHIP JUMPER	[M]
W5934	ERJ3GEY0R00V	CHIP JUMPER	[M]
W6049	ERJ3GEY0R00V	CHIP JUMPER	[M]
W6053	ERJ3GEY0R00V	CHIP JUMPER	[M]
W6054	ERJ3GEY0R00V	CHIP JUMPER	[M]
W6055	ERJ6GEY0R00V	CHIP RESISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
W6056	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W6057	ERJ3GEY0R00V	CHIP JUMPER	[M]
W6058	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W6059	ERJ3GEY0R00V	CHIP JUMPER	[M]
W6060	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W6061	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W6062	J0JCC0000120	CHIP INDUCTOR	[M]
W6071	ERJ3GEY0R00V	CHIP JUMPER	[M]
W6073	ERJ3GEY0R00V	CHIP JUMPER	[M]
W6076	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W6081	ERJ3GEY0R00V	CHIP JUMPER	[M]
W6083	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W6084	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W6086	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W6088	ERJ3GEY0R00V	CHIP JUMPER	[M]
W6089	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W6091	ERJ3GEY0R00V	CHIP JUMPER	[M]
W6095	ERJ3GEY0R00V	CHIP JUMPER	[M]
W6096	ERJ3GEY0R00V	CHIP JUMPER	[M]
W6097	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W6555	REXX0610	WIRE	[M]
WR1903	RWJ0102050KR	2P MOTOR WIRE	[M]
		PACKING MATERIALS	
P1	RPGX1767	PACKING CASE	[M] (GC)
P1	RPGX1769	PACKING CASE	[M] (GCS)
P1	RPGX1768	PACKING CASE	[M] (GS)
P1	RPGX1771	PACKING CASE	[M] (GN)
P2	RPNX0487	POLYFOAM UNIT	[M]
P3	RPFXX0225	MIRAMAT BAG	[M]
		ACCESSORIES	
A1	N2QAYB000110	REMOTE CONTROL	[M] (GC/GS/GC S)
A1	N2QAYB000111	REMOTE CONTROL	[M] (GN)
A1-1	RKK-NC9GCS	R/C BATTERY COVER	[M]
A2	K2CQ2CA00002	AC CORD	[M] (GC/GCS/G S) △
A2	K2CT3CA00004	AC CORD	[M] GS △
A2	K2CJ2DA00010	AC CORD	[M] (GN) △
A3	RQTX0061-L	O/I BOOK	[M] (GCS/GN)
A3	RQTX0062-G	O/I BOOK	[M] (GC/GS/GC S)
A4	K2KA2CA00011	VIDEO CABLE	[M]
A5	N1DAAA00001	AM LOOP ANTENNA	[M]
A6	RSA0007-L	FM ANTENNA	[M]
A7	RFAX0015	MECHA BRACKET ASS'Y	[M]
A8	RFKX0002	ALLEN KEY	[M]
A9	RFAX0017	LOCK COVER UNIT	[M]
A10	RQCXA0013-1	SPEAKER LABEL SHEET	[M]
A11	RHDX40009-K	SHORT SCREW	[M]
A12	RHDX40008-K	LONG SCREW	[M]
		RESISTORS	
R972	ERDS2TJ821T	820 1/4W	[M]
R973	ERDS2TJ393T	39K 1/4W	[M]
R1061	ERJ3GEY0R00V	0 1/16W	[M]
R1062	ERJ3GEY0R00V	0 1/16W	[M]
R1063	ERJ3GEY0R00V	0 1/16W	[M]
R1064	ERJ3GEY0R00V	0 1/16W	[M]
R1101	ERJ3GEYJ330V	33 1/16W	[M]
R1102	ERJ3GEYJ152V	1.5K 1/16W	[M]
R1103	ERJ3GEYJ183V	18K 1/16W	[M]
R1104	ERJ3GEYJ103V	10K 1/16W	[M]
R1105	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1106	ERJ3GEYJ104V	100K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R1107	ERJ3GEYJ102V	1K 1/16W	[M]
R1109	ERJ3GEYJ102V	1K 1/16W	[M]
R1110	ERJ3GEYJ333V	33K 1/16W	[M]
R1111	ERJ3GEYJ102V	1K 1/16W	[M]
R1201	ERJ3GEYJ330V	33 1/16W	[M]
R1202	ERJ3GEYJ152V	1.5K 1/16W	[M]
R1203	ERJ3GEYJ183V	18K 1/16W	[M]
R1204	ERJ3GEYJ103V	10K 1/16W	[M]
R1205	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1206	ERJ3GEYJ104V	100K 1/16W	[M]
R1207	ERJ3GEYJ102V	1K 1/16W	[M]
R1209	ERJ3GEYJ102V	1K 1/16W	[M]
R1210	ERJ3GEYJ333V	33K 1/16W	[M]
R1211	ERJ3GEYJ102V	1K 1/16W	[M]
R1303	ERJ3GEYJ475V	4.7M 1/16W	[M]
R1304	ERJ3GEYJ223V	22K 1/16W	[M]
R1305	ERJ3GEYJ103V	10K 1/16W	[M]
R1309	ERDS1FVJ471T	470 1/2W	[M]
R1313	ERJ3GEYJ103V	10K 1/16W	[M]
R1314	ERJ3GEYJ102V	1K 1/16W	[M]
R1318	ERJ3GEYJ103V	10K 1/16W	[M]
R1319	ERJ3GEYJ123V	12K 1/16W	[M]
R1320	ERJ3GEYJ104V	100K 1/16W	[M]
R1321	ERJ3GEYJ470V	47 1/16W	[M]
R1322	ERJ3GEYJ823V	82K 1/16W	[M]
R1327	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1328	ERJ3GEYJ153V	15K 1/16W	[M]
R1329	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1330	ERD2FCVJ4R7T	4.7 1/4W	[M]
R1331	ERJ3GEYJ752V	7.5K 1/16W	[M]
R1332	ERJ3GEYJ103V	10K 1/16W	[M]
R1333	ERD2FCVJ4R7T	4.7 1/4W	[M]
R1334	ERJ3GEYJ223V	22K 1/16W	[M]
R1335	ERJ3GEYJ152V	1.5K 1/16W	[M]
R1337	ERJ3GEYJ103V	10K 1/16W	[M]
R1338	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1341	ERJ3GEYJ471V	470 1/16W	[M]
R1342	ERJ3GEYJ473V	47K 1/16W	[M]
R1343	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1344	ERJ3GEYJ273V	27K 1/16W	[M]
R1345	ERJ3GEYJ102V	1K 1/16W	[M]
R1374	ERJ3GEYJ471V	470 1/16W	[M]
R2001	ERJ3GEYJ103V	10K 1/16W	[M]
R2002	ERJ3GEYJ103V	10K 1/16W	[M]
R2003	ERJ3GEYJ154V	150K 1/16W	[M]
R2004	ERJ3GEYJ154V	150K 1/16W	[M]
R2005	ERJ3GEYJ124V	120K 1/16W	[M]
R2006	ERJ3GEYJ153V	15K 1/16W	[M]
R2011	ERJ3GEYJ563V	56K 1/16W	[M]
R2012	ERJ3GEYJ563V	56K 1/16W	[M]
R2013	ERJ3GEYJ563V	56K 1/16W	[M]
R2014	ERJ3GEYJ563V	56K 1/16W	[M]
R2015	ERJ3GEYJ563V	56K 1/16W	[M]
R2016	ERJ3GEYJ563V	56K 1/16W	[M]
R2017	ERJ3GEYJ103V	10K 1/16W	[M]
R2018	ERJ3GEYJ103V	10K 1/16W	[M]
R2019	ERJ3GEYJ563V	56K 1/16W	[M]
R2020	ERJ3GEYJ563V	56K 1/16W	[M]
R2023	ERJ3GEYJ332V	3.3K 1/16W	[M]
R2024	ERJ3GEYJ332V	3.3K 1/16W	[M]
R2025	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2026	ERJ3GEYJ334V	330K 1/16W	[M]
R2027	ERJ3GEYJ473V	47K 1/16W	[M]
R2035	ERJ3GEY0R00V	0 1/16W	[M]
R2041	ERJ3GEYJ182V	1.8K 1/16W	[M]
R2061	ERJ3GEYJ101V	100 1/16W	[M]
R2062	ERJ3GEYJ101V	100 1/16W	[M]
R2063	ERJ3GEYJ333V	33K 1/16W	[M]
R2064	ERJ3GEYJ333V	33K 1/16W	[M]
R2065	ERJ3GEYJ273V	27K 1/16W	[M]
R2066	ERJ3GEYJ273V	27K 1/16W	[M]
R2067	ERJ3GEYJ471V	470 1/16W	[M]
R2068	ERJ3GEYJ471V	470 1/16W	[M]
R2081	ERJ3GEYJ153V	15K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R2082	ERJ3GEYJ153V	15K 1/16W	[M]
R2083	ERJ3GEYJ563V	56K 1/16W	[M]
R2084	ERJ3GEYJ563V	56K 1/16W	[M]
R2088	ERG1SJ330E	33 1W	[M]
R2095	ERJ3GEYJ183V	18K 1/16W	[M]
R2096	ERJ3GEYJ183V	18K 1/16W	[M]
R2097	ERJ3GEYJ473V	47K 1/16W	[M]
R2098	ERJ3GEYJ473V	47K 1/16W	[M]
R2101	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2102	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2103	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2104	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2131	ERJ3GEYJ473V	47K 1/16W	[M]
R2132	ERJ3GEYJ332V	3.3K 1/16W	[M]
R2133	ERJ3GEYJ473V	47K 1/16W	[M]
R2134	ERJ3GEYJ473V	47K 1/16W	[M]
R2135	ERJ3GEYJ332V	3.3K 1/16W	[M]
R2136	ERJ3GEYJ473V	47K 1/16W	[M]
R2141	ERJ3GEYJ473V	47K 1/16W	[M]
R2142	ERJ3GEYJ473V	47K 1/16W	[M]
R2143	ERJ3GEYJ682V	6.8K 1/16W	[M]
R2151	ERJ3GEYJ682V	6.8K 1/16W	[M]
R2152	ERJ3GEYJ273V	27K 1/16W	[M]
R2154	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2156	ERJ3GEYJ183V	18K 1/16W	[M]
R2157	ERJ3GEYJ333V	33K 1/16W	[M]
R2158	ERJ3GEYJ563V	56K 1/16W	[M]
R2159	ERJ3GEYJ473V	47K 1/16W	[M]
R2161	ERJ3GEY0R00V	0 1/16W	[M]
R2162	ERJ3GEY0R00V	0 1/16W	[M]
R2165	ERJ3GEY0R00V	0 1/16W	[M]
R2166	ERJ3GEY0R00V	0 1/16W	[M]
R2169	ERJ3GEYJ123V	12K 1/16W	[M]
R2170	ERJ3GEYJ123V	12K 1/16W	[M]
R2205	ERJ3GEYJ390V	39 1/16W	[M]
R2206	ERJ3GEYJ390V	39 1/16W	[M]
R2207	ERJ3GEYJ390V	39 1/16W	[M]
R2208	ERJ3GEYJ390V	39 1/16W	[M]
R2209	ERJ3GEYJ390V	39 1/16W	[M]
R2210	ERJ3GEYJ390V	39 1/16W	[M]
R2211	ERJ3GEYJ390V	39 1/16W	[M]
R2212	ERJ3GEYJ390V	39 1/16W	[M]
R2217	ERJ3GEYJ332V	3.3K 1/16W	[M]
R2218	ERJ3GEYJ332V	3.3K 1/16W	[M]
R2219	ERJ3GEYJ1R0V	1 1/16W	[M]
R2220	ERJ3GEYJ1R0V	1 1/16W	[M]
R2223	ERJ3GEYJ152V	1.5K 1/16W	[M]
R2224	ERJ3GEYJ152V	1.5K 1/16W	[M]
R2231	ERJ3GEYJ822V	8.2K 1/16W	[M] (GC/GS/GC S)
R2232	ERJ3GEYJ273V	27K 1/16W	[M] (GC/GS/GC S)
R2233	ERJ3GEYJ151V	150 1/16W	[M] (GC/GS/GC S)
R2234	ERJ3GEYJ151V	150 1/16W	[M] (GC/GS/GC S)
R2235	ERJ3GEYJ102V	1K 1/16W	[M] (GC/GS/GC S)
R2236	ERJ3GEYJ470V	47 1/16W	[M] (GC/GS/GC S)
R2237	ERJ3GEYJ102V	1K 1/16W	[M] (GC/GS/GC S)
R2238	ERJ3GEYJ390V	39 1/16W	[M] (GC/GS/GC S)
R2239	ERJ3GEYJ103V	10K 1/16W	[M] (GC/GS/GC S)
R2240	ERJ3GEYJ103V	10K 1/16W	[M] (GC/GS/GC S)

Ref. No.	Part No.	Part Name & Description	Remarks
R2241	ERJ3GEYJ472V	4.7K 1/16W	[M] (GC/GS/GC S)
R2243	ERJ3GEY0R00V	0 1/16W	[M] (GC/GS/GC S)
R2244	ERJ3GEYJ563V	56K 1/16W	[M] (GC/GS/GC S)
R2245	ERJ3GEYJ153V	15K 1/16W	[M] (GC/GS/GC S)
R2246	ERJ3GEYJ153V	15K 1/16W	[M] (GC/GS/GC S)
R2252	ERJ3GEYJ153V	15K 1/16W	[M] (GC/GS/GC S)
R2253	ERJ3GEYJ153V	15K 1/16W	[M] (GC/GS/GC S)
R2254	ERJ3GEYJ153V	15K 1/16W	[M] (GC/GS/GC S)
R2258	ERJ3GEYJ273V	27K 1/16W	[M] (GC/GS/GC S)
R2259	ERJ3GEYJ153V	15K 1/16W	[M] (GC/GS/GC S)
R2260	ERJ3GEYJ153V	15K 1/16W	[M] (GC/GS/GC S)
R2261	ERJ3GEYJ153V	15K 1/16W	[M] (GC/GS/GC S)
R2262	ERJ3GEYJ472V	4.7K 1/16W	[M] (GC/GS/GC S)
R2264	ERJ3GEYJ103V	10K 1/16W	[M] (GC/GS/GC S)
R2265	ERJ3GEYJ102V	1K 1/16W	[M] (GC/GS/GC S)
R2266	ERJ3GEYJ272V	2.7K 1/16W	[M] (GC/GS/GC S)
R2267	ERJ3GEYJ472V	4.7K 1/16W	[M] (GC/GS/GC S)
R2271	ERJ3GEYJ472V	4.7K 1/16W	[M] (GC/GS/GC S)
R2272	ERJ3GEYJ472V	4.7K 1/16W	[M] (GC/GS/GC S)
R2273	ERJ3GEYJ472V	4.7K 1/16W	[M] (GC/GS/GC S)
R2301	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2302	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2303	ERJ3GEYJ104V	100K 1/16W	[M]
R2304	ERJ3GEYJ104V	100K 1/16W	[M]
R2305	ERJ3GEYJ152V	1.5K 1/16W	[M]
R2306	ERJ3GEYJ152V	1.5K 1/16W	[M]
R2307	ERJ3GEYJ272V	2.7K 1/16W	[M]
R2308	ERJ3GEYJ272V	2.7K 1/16W	[M]
R2309	ERJ3GEYJ393V	39K 1/16W	[M]
R2310	ERJ3GEYJ393V	39K 1/16W	[M]
R2315	ERJ3GEYJ332V	3.3K 1/16W	[M]
R2316	ERJ3GEYJ332V	3.3K 1/16W	[M]
R2321	ERJ3GEYJ153V	15K 1/16W	[M]
R2322	ERJ3GEYJ153V	15K 1/16W	[M]
R2325	ERJ3GEYJ153V	15K 1/16W	[M]
R2326	ERJ3GEYJ153V	15K 1/16W	[M]
R2327	ERJ3GEYJ333V	33K 1/16W	[M]
R2328	ERJ3GEYJ333V	33K 1/16W	[M]
R2329	ERJ3GEYJ105V	1M 1/16W	[M]
R2330	ERJ3GEYJ105V	1M 1/16W	[M]
R2333	ERJ3GEY0R00V	0 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R2334	ERJ3GEY0R00V	0 1/16W	[M]
R2345	ERJ3GEYJ333V	33K 1/16W	[M]
R2346	ERJ3GEYJ333V	33K 1/16W	[M]
R2347	ERJ3GEYJ822V	8.2K 1/16W	[M]
R2348	ERJ3GEYJ822V	8.2K 1/16W	[M]
R2355	ERJ3GEYJ153V	15K 1/16W	[M]
R2356	ERJ3GEYJ153V	15K 1/16W	[M]
R2361	ERJ3GEYJ392V	3.9K 1/16W	[M]
R2362	ERJ3GEYJ392V	3.9K 1/16W	[M]
R2363	ERJ3GEYJ104V	100K 1/16W	[M]
R2364	ERJ3GEYJ104V	100K 1/16W	[M]
R2365	ERJ3GEYJ102V	1K 1/16W	[M]
R2366	ERJ3GEYJ102V	1K 1/16W	[M]
R2367	ERJ3GEYJ101V	100 1/16W	[M]
R2368	ERJ3GEYJ101V	100 1/16W	[M]
R2369	ERJ3GEYJ473V	47K 1/16W	[M]
R2370	ERJ3GEYJ473V	47K 1/16W	[M]
R2371	ERJ3GEYJ2R2V	2.2 1/16W	[M]
R2383	ERJ3GEYJ273V	27K 1/16W	[M]
R2384	ERJ3GEYJ563V	56K 1/16W	[M]
R2385	ERJ3GEYJ182V	1.8K 1/16W	[M]
R2391	ERJ3GEYJ183V	18K 1/16W	[M]
R2392	ERJ3GEYJ183V	18K 1/16W	[M]
R2400	ERJ3GEYJ750V	75 1/16W	[M]
R2406	ERJ3GEYJ750V	75 1/16W	[M]
R2407	ERJ3GEYJ750V	75 1/16W	[M]
R2408	ERJ3GEYJ750V	75 1/16W	[M]
R2409	ERJ3GEYJ750V	75 1/16W	[M]
R2413	ERJ6GEYJ102V	1K 1/10W	[M]
R2414	ERJ3GEYJ102V	1K 1/16W	[M]
R2415	ERJ6GEYJ102V	1K 1/10W	[M]
R2429	ERJ3GEYJ750V	75 1/16W	[M]
R2600	ERJ3GEYJ563V	56K 1/16W	[M]
R2601	ERJ3GEYJ333V	33K 1/16W	[M]
R2602	ERJ3GEYJ123V	12K 1/16W	[M]
R2603	ERJ3GEYJ104V	100K 1/16W	[M]
R2604	ERJ3GEY0R00V	0 1/16W	[M]
R2605	ERJ3GEYJ102V	1K 1/16W	[M]
R2606	ERJ3GEYJ104V	100K 1/16W	[M]
R2607	ERJ3GEYJ392V	3.9K 1/16W	[M]
R2608	ERJ3GEYJ822V	8.2K 1/16W	[M]
R2609	ERJ3GEYJ333V	33K 1/16W	[M]
R2610	ERJ3GEYJ103V	10K 1/16W	[M]
R2611	ERJ3GEYJ104V	100K 1/16W	[M]
R2612	ERJ3GEYJ104V	100K 1/16W	[M]
R2613	ERJ3GEYJ332V	3.3K 1/16W	[M]
R2614	ERJ3GEYJ104V	100K 1/16W	[M]
R2615	ERJ3GEYJ104V	100K 1/16W	[M]
R2616	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2617	ERJ3GEYJ103V	10K 1/16W	[M]
R2618	ERJ3GEYJ103V	10K 1/16W	[M]
R2619	ERJ3GEYJ103V	10K 1/16W	[M]
R2620	ERJ3GEYJ103V	10K 1/16W	[M]
R2621	ERJ3GEYJ104V	100K 1/16W	[M]
R2622	ERJ3GEYJ822V	8.2K 1/16W	[M]
R2623	ERJ3GEYJ273V	27K 1/16W	[M]
R2624	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2625	ERJ3GEYJ104V	100K 1/16W	[M]
R2626	ERJ3GEYJ683V	68K 1/16W	[M]
R2627	ERJ3GEYJ682V	6.8K 1/16W	[M]
R2628	ERJ3GEYJ392V	3.9K 1/16W	[M]
R2630	ERJ3GEYJ103V	10K 1/16W	[M]
R2631	ERJ3GEYJ103V	10K 1/16W	[M]
R2632	ERJ3GEYJ474V	470K 1/16W	[M]
R2633	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2634	ERJ3GEYJ182V	1.8K 1/16W	[M]
R2635	ECJ1VB1A224K	1.4K 1/8W	[M]
R2636	ERJ3GEY0R00V	0 1/16W	[M]
R2640	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2641	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2642	ERJ3GEYJ563V	56K 1/16W	[M]
R2644	ERJ3GEYJ182V	1.8K 1/16W	[M]
R2646	ERJ3GEYJ273V	27K 1/16W	[M]
R2663	ERJ3GEY0R00V	0 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R2664	ERJ3GEY0R00V	0 1/16W	[M]
R2696	ERJ3GEYJ103V	10K 1/16W	[M]
R2702	ERG2SJ271E	270 1/32W	[M]
R2703	ERJ6GEYJ102V	1K 1/10W	[M]
R2705	ERJ3GEYJ471V	470 1/16W	[M]
R2706	ERG2SJ271E	270 1/32W	[M]
R2707	ERDS1FVJ103T	10K 1/2W	[M]
R2708	ERJ6GEYJ682V	6.8K 1/10W	[M]
R2709	ERDS1FVJ102T	1K 1/2W	[M]
R2710	ERJ3GEYJ272V	2.7K 1/16W	[M]
R2711	ERJ3GEYJ272V	2.7K 1/16W	[M]
R2713	ERJ3GEYJ561V	560 1/16W	[M]
R2741	ERJ3GEYJ332V	3.3K 1/16W	[M]
R2742	ERJ3GEYJ102V	1K 1/16W	[M]
R2743	ERJ3GEYJ103V	10K 1/16W	[M]
R2744	ERJ3GEYJ102V	1K 1/16W	[M]
R2745	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2753	ERX2SJ1R5E	1.5 1/32W	[M]
R2754	ERX2SJ1R5E	1.5 1/32W	[M]
R2755	ERJ3GEYJ331V	330 1/16W	[M]
R2756	ERJ3GEYJ330V	33 1/16W	[M]
R2761	ERJ3GEYJ102V	1K 1/16W	[M]
R2762	ERJ3GEYJ151V	150 1/16W	[M]
R2771	ERJ3GEYJ151V	150 1/16W	[M]
R2772	ERJ3GEYJ151V	150 1/16W	[M]
R2781	ERJ3GEYJ103V	10K 1/16W	[M]
R2782	ERJ3GEYJ563V	56K 1/16W	[M]
R2783	ERDS1FVJ270T	27 1/2W	[M]
R2784	ERJ3GEYJ101V	100 1/16W	[M]
R2785	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2786	ERJ3GEYJ562V	5.6K 1/16W	[M]
R2787	ERJ3GEYJ103V	10K 1/16W	[M]
R2788	ERJ3GEYJ473V	47K 1/16W	[M]
R2790	ERJ3GEYJ824V	820K 1/16W	[M]
R2791	ERJ3GEYJ103V	10K 1/16W	[M]
R2792	ERJ3GEYJ473V	47K 1/16W	[M]
R2803	ERJ3GEYJ182V	1.8K 1/16W	[M]
R2804	ERJ3GEYJ182V	1.8K 1/16W	[M]
R2810	ERJ3GEY0R00V	0 1/16W	[M]
R2813	ERJ3GEYJ223V	22K 1/16W	[M]
R2824	ERJ3GEYJ223V	22K 1/16W	[M]
R2825	ERJ3GEYJ223V	22K 1/16W	[M]
R2826	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2843	ERJ3GEYJ102V	1K 1/16W	[M]
R2844	ERJ3GEYJ273V	27K 1/16W	[M]
R2845	ERJ3GEYJ102V	1K 1/16W	[M]
R2846	ERJ3GEYJ563V	56K 1/16W	[M]
R2847	ERJ3GEYJ273V	27K 1/16W	[M]
R2851	ERJ3GEYJ104V	100K 1/16W	[M]
R2852	ERJ3GEYJ225V	2.2M 1/16W	[M]
R2853	ERJ3GEYJ473V	47K 1/16W	[M]
R2854	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2855	ERJ3GEYJ223V	22K 1/16W	[M]
R2857	ERJ3GEYJ272V	2.7K 1/16W	[M]
R2858	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2861	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2862	ERJ3GEYJ682V	6.8K 1/16W	[M]
R2863	ERJ3GEYJ123V	12K 1/16W	[M]
R2870	ERJ3GEYJ153V	15K 1/16W	[M]
R2871	ERJ3GEYJ104V	100K 1/16W	[M]
R2872	ERJ3GEYJ473V	47K 1/16W	[M]
R2873	ERJ3GEYJ103V	10K 1/16W	[M]
R2875	ERJ3GEYJ473V	47K 1/16W	[M]
R2876	ERJ3GEYJ473V	47K 1/16W	[M]
R2877	ERJ3GEYJ473V	47K 1/16W	[M]
R2878	ERJ3GEYJ473V	47K 1/16W	[M]
R2879	ERJ3GEYJ473V	47K 1/16W	[M]
R2880	ERJ3GEYJ473V	47K 1/16W	[M]
R2881	ERJ3GEYJ104V	100K 1/16W	[M]
R2882	ERJ3GEYJ104V	100K 1/16W	[M]
R2883	ERJ3GEYJ104V	100K 1/16W	[M]
R2886	ERJ3GEYJ103V	10K 1/16W	[M] (GC/GS)
R2886	ERJ3GEYJ332V	3.3K 1/16W	[M] (GCS)

Ref. No.	Part No.	Part Name & Description	Remarks
R2886	ERJ3GEYJ682V	6.8K 1/16W	[M] (GN)
R2900	ERJ3GEYJ221V	220 1/16W	[M]
R2901	ERJ3GEYJ221V	220 1/16W	[M]
R2902	ERJ3GEYJ221V	220 1/16W	[M]
R2903	ERJ3GEYJ221V	220 1/16W	[M]
R2904	ERJ3GEYJ221V	220 1/16W	[M]
R2905	ERJ3GEYJ221V	220 1/16W	[M]
R2906	ERJ3GEYJ221V	220 1/16W	[M]
R2907	ERJ3GEYJ221V	220 1/16W	[M]
R2911	ERJ3GEYJ331V	330 1/16W	[M]
R2912	ERJ3GEYJ473V	47K 1/16W	[M]
R2913	ERJ3GEYJ681V	680 1/16W	[M]
R2918	ERJ3GEYJ101V	100 1/16W	[M]
R2919	ERJ3GEYJ103V	10K 1/16W	[M]
R2920	ERJ3GEYJ101V	100 1/16W	[M]
R2921	ERJ3GEYJ101V	100 1/16W	[M]
R2922	ERJ3GEYJ101V	100 1/16W	[M]
R2925	ERJ3GEYJ102V	1K 1/16W	[M]
R2926	ERJ3GEYJ102V	1K 1/16W	[M]
R2927	ERJ3GEYJ101V	100 1/16W	[M]
R2928	ERJ3GEYJ101V	100 1/16W	[M]
R2929	ERJ3GEYJ221V	220 1/16W	[M]
R2930	ERJ3GEYJ221V	220 1/16W	[M]
R2931	ERJ3GEYJ221V	220 1/16W	[M]
R2933	ERJ3GEYJ221V	220 1/16W	[M]
R2934	ERJ3GEYJ221V	220 1/16W	[M]
R2935	ERJ3GEYJ102V	1K 1/16W	[M]
R2936	ERJ3GEYJ102V	1K 1/16W	[M]
R2937	ERJ3GEYJ102V	1K 1/16W	[M]
R2938	ERJ3GEYJ221V	220 1/16W	[M]
R2939	ERJ3GEYJ221V	220 1/16W	[M]
R2940	ERJ3GEYJ221V	220 1/16W	[M]
R2942	ERJ3GEYJ102V	1K 1/16W	[M]
R2943	ERJ3GEYJ102V	1K 1/16W	[M]
R2944	ERJ3GEYJ221V	220 1/16W	[M]
R2945	ERJ3GEYJ104V	100K 1/16W	[M]
R2946	ERJ3GEYJ102V	1K 1/16W	[M]
R2947	ERJ3GEYJ102V	1K 1/16W	[M]
R2948	ERJ3GEYJ221V	220 1/16W	[M]
R2949	ERJ3GEYJ221V	220 1/16W	[M]
R2950	ERJ3GEYJ102V	1K 1/16W	[M]
R2954	ERJ3GEYJ221V	220 1/16W	[M]
R2961	ERJ3GEYJ102V	1K 1/16W	[M]
R2963	ERJ3GEYJ102V	1K 1/16W	[M]
R2969	ERJ3GEYJ221V	220 1/16W	[M]
R2970	ERJ3GEYJ102V	1K 1/16W	[M]
R2971	ERJ3GEYJ221V	220 1/16W	[M]
R2972	ERJ3GEYJ221V	220 1/16W	[M]
R2973	ERJ3GEYJ221V	220 1/16W	[M]
R2975	ERJ3GEYJ101V	100 1/16W	[M]
R2976	ERJ3GEYJ101V	100 1/16W	[M]
R2977	ERJ3GEYJ221V	220 1/16W	[M]
R2978	ERJ3GEYJ221V	220 1/16W	[M]
R2979	ERJ3GEYJ221V	220 1/16W	[M]
R2980	ERJ3GEYJ101V	100 1/16W	[M]
R2981	ERJ3GEYJ103V	10K 1/16W	[M]
R2982	ERJ3GEYJ101V	100 1/16W	[M]
R2984	ERJ3GEYJ101V	100 1/16W	[M]
R2985	ERJ3GEYJ101V	100 1/16W	[M]
R2987	ERJ3GEYJ103V	10K 1/16W	[M] (GN)
R2988	ERJ3GEYJ103V	10K 1/16W	[M] (GC/GS/GC S)
R2989	ERJ3GEYJ221V	220 1/16W	[M]
R2990	ERJ3GEYJ221V	220 1/16W	[M]
R2992	ERJ3GEYJ101V	100 1/16W	[M]
R2993	ERJ3GEYJ101V	100 1/16W	[M]
R2994	ERJ3GEYJ101V	100 1/16W	[M]
R2995	ERJ3GEYJ101V	100 1/16W	[M]
R2997	ERJ3GEYJ103V	10K 1/16W	[M]
R3901	ERJ2GEJ511X	510 1/32W	[M]
R3902	ERJ2GEJ103X	10K 1/32W	[M]
R3903	ERJ2GEJ103X	10K 1/32W	[M]
R3904	ERJ2GEJ472X	4.7K 1/32W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R3905	ERJ2GEJ202X	2K 1/32W	[M]
R3906	ERJ2GEJ472X	4.7K 1/32W	[M]
R3907	ERJ2GEJ222X	2.2K 1/32W	[M]
R3921	ERJ2GEOR00X	0 1/32W	[M]
R3924	ERJ2GEOR00X	0 1/32W	[M]
R3925	ERJ2GEJ103X	10K 1/32W	[M]
R3941	ERJ2GEJ273X	27K 1/32W	[M]
R3942	ERJ2GEJ224X	220K 1/32W	[M]
R3943	ERJ2GEJ104X	100K 1/32W	[M]
R3944	ERJ2GEJ221X	220 1/32W	[M]
R3945	ERJ2GEJ103X	10K 1/32W	[M]
R3946	ERJ2GEJ272X	2.7K 1/32W	[M]
R3947	ERJ2GEJ103X	10K 1/32W	[M]
R5075	ERJ3GEYJ562V	5.6K 1/16W	[M]
R5076	ERJ3GEYJ562V	5.6K 1/16W	[M]
R5101	ERJ6GEYJ103V	10K 1/10W	[M]
R5103	ERG1SJ103E	10K 1W	[M]
R5105	ERJ6GEYJ103V	10K 1/10W	[M]
R5106	ERJ3GEYJ223V	22K 1/16W	[M]
R5107	ERJ3GEYJ561V	560 1/16W	[M]
R5108	ERJ3GEYJ470V	47 1/16W	[M]
R5109	ERJ3GEYJ102V	1K 1/16W	[M]
R5110	ERJ3GEYJ223V	22K 1/16W	[M]
R5114	ERJ3GEYJ1R8V	1.8 1/16W	[M]
R5120	D0C18R2JA020	8.2 1W	[M]
R5121	D0C18R2JA020	8.2 1W	[M]
R5122	D0C18R2JA020	8.2 1W	[M]
R5123	D0C18R2JA020	8.2 1W	[M]
R5126	ERJ3GEYJ152V	1.5K 1/16W	[M]
R5127	ERJ3GEYJ151V	150 1/16W	[M]
R5181	ERG2SJ470E	47 1/32W	[M]
R5201	ERJ3GEYJ101V	100 1/16W	[M]
R5211	ERJ3GEY0R00V	0 1/16W	[M]
R5212	ERJ3GEY0R00V	0 1/16W	[M]
R5215	ERJ3GEYJ562V	5.6K 1/16W	[M]
R5216	ERJ3GEYJ562V	5.6K 1/16W	[M]
R5217	ERJ3GEYJ562V	5.6K 1/16W	[M]
R5218	ERJ3GEYJ562V	5.6K 1/16W	[M]
R5233	ERJ8GEYJ100V	10 1/8W	[M]
R5234	ERJ8GEYJ100V	10 1/8W	[M]
R5251	ERJ8GEYJ100V	10 1/8W	[M]
R5252	ERJ8GEYJ100V	10 1/8W	[M]
R5271	ERJ3GEYJ102V	1K 1/16W	[M] △
R5273	ERG1SJ220E	22 1W	[M]
R5274	ERG1SJ220E	22 1W	[M]
R5277	ERJ3GEYJ124V	120K 1/16W	[M]
R5278	ERJ3GEYJ124V	120K 1/16W	[M]
R5301	ERJ3GEYJ101V	100 1/16W	[M]
R5310	ERJ3GEYJ472V	4.7K 1/16W	[M]
R5311	ERJ3GEY0R00V	0 1/16W	[M]
R5315	ERJ3GEYJ562V	5.6K 1/16W	[M]
R5316	ERJ3GEYJ562V	5.6K 1/16W	[M]
R5317	ERJ3GEYJ562V	5.6K 1/16W	[M]
R5318	ERJ3GEYJ562V	5.6K 1/16W	[M]
R5333	ERJ8GEYJ100V	10 1/8W	[M]
R5334	ERJ8GEYJ100V	10 1/8W	[M]
R5351	ERJ8GEYJ100V	10 1/8W	[M]
R5352	ERJ8GEYJ100V	10 1/8W	[M]
R5356	ERJ3GEYJ562V	5.6K 1/16W	[M]
R5371	ERJ3GEYJ122V	1.2K 1/16W	[M]
R5372	ERJ3GEYJ122V	1.2K 1/16W	[M]
R5373	ERG1SJ220E	22 1W	[M]
R5374	ERG1SJ220E	22 1W	[M]
R5375	ERJ3GEYJ562V	5.6K 1/16W	[M]
R5377	ERJ3GEYJ124V	120K 1/16W	[M]
R5378	ERJ3GEYJ124V	120K 1/16W	[M]
R5401	ERJ3GEYJ101V	100 1/16W	[M]
R5411	ERJ3GEY0R00V	0 1/16W	[M]
R5412	ERJ3GEY0R00V	0 1/16W	[M]
R5415	ERJ3GEYJ562V	5.6K 1/16W	[M]
R5416	ERJ3GEYJ562V	5.6K 1/16W	[M]
R5417	ERJ3GEYJ562V	5.6K 1/16W	[M]
R5418	ERJ3GEYJ562V	5.6K 1/16W	[M]
R5433	ERJ8GEYJ100V	10 1/8W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R5434	ERJ8GEYJ100V	10 1/8W	[M]
R5451	ERJ8GEYJ100V	10 1/8W	[M]
R5452	ERJ8GEYJ100V	10 1/8W	[M]
R5471	ERJ3GEYJ122V	1.2K 1/16W	[M]
R5473	ERG1SJ220E	22 1W	[M]
R5474	ERG1SJ220E	22 1W	[M]
R5475	ERJ3GEYJ562V	5.6K 1/16W	[M]
R5476	ERJ3GEYJ562V	5.6K 1/16W	[M]
R5477	ERJ3GEYJ124V	120K 1/16W	[M]
R5478	ERJ3GEYJ683V	68K 1/16W	[M]
R5504	ERJ3GEYJ220V	22 1/16W	[M]
R5551	ERJ3GEYJ105V	1M 1/16W	[M]
R5553	ERJ3GEYJ102V	1K 1/16W	[M]
R5560	ERJ3GEYJ101V	100 1/16W	[M]
R5561	ERJ3GEYJ105V	1M 1/16W	[M]
R5563	ERJ3GEYJ102V	1K 1/16W	[M]
R5571	ERJ3GEYJ105V	1M 1/16W	[M]
R5572	ERJ3GEY0R00V	0 1/16W	[M]
R5602	ERJ3GEYJ103V	10K 1/16W	[M]
R5603	ERJ3GEYJ102V	1K 1/16W	[M]
R5604	ERJ3GEYJ122V	1.2K 1/16W	[M]
R5606	ERJ3GEYJ103V	10K 1/16W	[M]
R5607	ERJ3GEYJ122V	1.2K 1/16W	[M]
R5608	ERJ3GEYJ273V	27K 1/16W	[M]
R5609	ERJ3GEYJ103V	10K 1/16W	[M]
R5610	ERJ3GEYJ122V	1.2K 1/16W	[M]
R5611	ERJ3GEYJ122V	1.2K 1/16W	[M]
R5621	ERJ3GEY0R00V	0 1/16W	[M]
R5622	ERJ3GEYJ102V	1K 1/16W	[M]
R5631	ERJ3GEYJ101V	100 1/16W	[M]
R5632	ERJ3GEYJ101V	100 1/16W	[M]
R5910	ERJ3GEYJ222V	2.2K 1/16W	[M]
R5951	ERJ3GEYJ332V	3.3K 1/16W	[M]
R5952	ERJ3GEYJ152V	1.5K 1/16W	[M]
R5953	ERJ3GEYJ151V	150 1/16W	[M] (GC)
R5954	ERJ3GEYJ824V	820K 1/16W	[M] (GCS)
R5955	ERJ3GEYJ122V	1.2K 1/16W	[M]
R5957	ERJ3GEYJ103V	10K 1/16W	[M]
R5958	ERJ3GEYJ103V	10K 1/16W	[M]
R5960	ERJ3GEYJ472V	4.7K 1/16W	[M]
R5961	ERJ3GEYJ151V	150 1/16W	[M]
R5963	ERDS1FVJ820T	82 1/2W	[M]
R5981	ERJ3GEYJ472V	4.7K 1/16W	[M]
R5982	ERJ3GEYJ151V	150 1/16W	[M]
R5983	ERJ3GEYJ473V	47K 1/16W	[M]
R5984	ERJ3GEY0R00V	0 1/16W	[M]
R5985	ERJ3GEY0R00V	0 1/16W	[M]
R5986	ERJ3GEYJ104V	100K 1/16W	[M]
R5987	ERJ3GEYJ473V	47K 1/16W	[M]
R6101	ERJ3GEYJ103V	10K 1/16W	[M]
R6102	ERJ3GEYJ102V	1K 1/16W	[M]
R6103	ERJ3GEYJ222V	2.2K 1/16W	[M]
R6104	ERJ3GEYJ182V	1.8K 1/16W	[M]
R6105	ERJ3GEYJ222V	2.2K 1/16W	[M]
R6106	ERJ3GEYJ272V	2.7K 1/16W	[M]
R6107	ERJ3GEYJ472V	4.7K 1/16W	[M]
R6201	ERJ3GEYJ103V	10K 1/16W	[M]
R6202	ERJ3GEYJ102V	1K 1/16W	[M]
R6203	ERJ3GEYJ222V	2.2K 1/16W	[M]
R6204	ERJ3GEYJ182V	1.8K 1/16W	[M]
R6205	ERJ3GEYJ222V	2.2K 1/16W	[M]
R6206	ERJ3GEYJ272V	2.7K 1/16W	[M]
R6207	ERJ3GEYJ472V	4.7K 1/16W	[M]
R6208	ERJ3GEYJ682V	6.8K 1/16W	[M]
R6209	ERJ3GEYJ103V	10K 1/16W	[M]
R6210	ERJ3GEYJ223V	22K 1/16W	[M]
R6211	ERJ3GEY0R00V	0 1/16W	[M]
R6302	ERJ3GEYJ682V	6.8K 1/16W	[M]
R6303	ERJ3GEYJ103V	10K 1/16W	[M]
R6305	ERJ3GEYJ102V	1K 1/16W	[M]
R6306	ERJ3GEYJ103V	10K 1/16W	[M]
R6307	ERJ3GEYJ104V	100K 1/16W	[M]
R6308	ERJ3GEYJ102V	1K 1/16W	[M]
R6401	ERJ3GEYJ122V	1.2K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R6402	ERJ3GEYJ102V	1K 1/16W	[M]
R6431	ERJ3GEYJ472V	4.7K 1/16W	[M]
R6501	ERJ3GEYJ333V	33K 1/16W	[M]
R6502	ERJ3GEYJ331V	330 1/16W	[M]
R6503	ERJ3GEYJ331V	330 1/16W	[M]
R6504	ERJ3GEYJ331V	330 1/16W	[M]
R6505	ERJ3GEYJ331V	330 1/16W	[M]
R6510	ERJ3GEYJ472V	4.7K 1/16W	[M]
R6511	ERJ3GEY0R00V	0 1/16W	[M]
R6512	ERJ3GEYJ473V	47K 1/16W	[M]
R6521	ERJ3GEYJ101V	100 1/16W	[M]
R6522	ERJ3GEYJ101V	100 1/16W	[M]
R6523	ERJ3GEYJ101V	100 1/16W	[M]
R6524	ERJ3GEYJ101V	100 1/16W	[M]
R6531	ERJ3GEYJ472V	4.7K 1/16W	[M]
R6541	ERJ3GEYJ820V	82 1/16W	[M]
R6542	ERJ3GEYJ820V	82 1/16W	[M]
R6543	ERJ3GEYJ103V	10K 1/16W	[M]
R6557	ERJ3GEY0R00V	0 1/16W	[M]
R6601	ERJ3GEYJ471V	470 1/16W	[M]
R6603	ERJ3GEYJ221V	220 1/16W	[M]
R6604	ERJ3GEYJ221V	220 1/16W	[M]
R6605	ERJ3GEYJ823V	82K 1/16W	[M]
R6701	ERJ3GEYJ473V	47K 1/16W	[M]
R6702	ERJ3GEYJ473V	47K 1/16W	[M]
R6708	ERJ3GEYJ822V	8.2K 1/16W	[M]
R6709	ERJ3GEYJ223V	22K 1/16W	[M]
R6741	ERJ6GEYJ151V	150 1/10W	[M]
R6742	ERJ6GEYJ151V	150 1/10W	[M]
R6743	ERJ3GEY0R00V	0 1/16W	[M]
R6761	ERJ3GEYJ473V	47K 1/16W	[M]
R6811	ERJ3GEYJ102V	1K 1/16W	[M]
R6812	ERJ3GEYJ102V	1K 1/16W	[M]
R6813	ERJ3GEYJ473V	47K 1/16W	[M]
R6814	ERJ3GEYJ473V	47K 1/16W	[M]
R6816	ERJ3GEYJ822V	8.2K 1/16W	[M] (GC/GS/GC S)
R6837	ERJ3GEYJ151V	150 1/16W	[M]
R6838	ERJ3GEYJ151V	150 1/16W	[M]
R6847	ERJ3GEYJ102V	1K 1/16W	[M]
R6872	ERJ6GEYJ223V	22K 1/10W	[M]
R6881	ERJ3GEYJ473V	47K 1/16W	[M]
R6882	ERJ3GEYJ101V	100 1/16W	[M]
R6883	ERJ3GEYJ104V	100K 1/16W	[M]
R6901	ERJ3GEYJ681V	680 1/16W	[M] (GC/GS/GC S)
R6902	ERJ3GEYJ681V	680 1/16W	[M] (GC/GS/GC S)
R6903	ERJ3GEYJ561V	560 1/16W	[M] (GC/GS/GC S)
R6904	ERJ3GEYJ222V	2.2K 1/16W	[M] (GC/GS/GC S)
R6905	ERJ3GEYJ474V	470K 1/16W	[M] (GC/GS/GC S)
R6906	ERJ3GEYJ472V	4.7K 1/16W	[M] (GC/GS/GC S)
R6907	ERJ3GEYJ334V	330K 1/16W	[M] (GC/GS/GC S)
R6908	ERJ3GEYJ101V	100 1/16W	[M] (GC/GS/GC S)
R6909	ERJ3GEYJ334V	330K 1/16W	[M] (GC/GS/GC S)
R6910	ERJ3GEYJ472V	4.7K 1/16W	[M] (GC/GS/GC S)
R6911	ERJ3GEYJ101V	100 1/16W	[M] (GC/GS/GC S)

Ref. No.	Part No.	Part Name & Description	Remarks
R6912	ERJ3GEYJ273V	27K 1/16W	[M] (GC/GS/GC S)
R6913	ERJ3GEYJ122V	1.2K 1/16W	[M] (GC/GS/GC S)
R6914	ERJ3GEYJ102V	1K 1/16W	[M] (GC/GS/GC S)
R6921	ERJ3GEYJ390V	39 1/16W	[M] (GC/GS/GC S)
R6922	ERJ3GEYJ390V	39 1/16W	[M] (GC/GS/GC S)
R6923	ERJ3GEYJ124V	120K 1/16W	[M] (GC/GS/GC S)
R8001	ERJ2GEJ103X	10K 1/32W	[M]
R8003	ERJ2GEJ103X	10K 1/32W	[M]
R8011	ERJ2GEJ220X	22 1/32W	[M]
R8012	ERJ2GEJ220X	22 1/32W	[M]
R8013	ERJ2GEJ220X	22 1/32W	[M]
R8041	ERJ2GEJ330X	33 1/32W	[M]
R8153	ERJ2RHD621X	620 1/32W	[M]
R8154	ERJ2RHD102X	1K 1/32W	[M]
R8211	ERJ2GEJ103X	10K 1/32W	[M]
R8221	ERJ2GEJ822X	8.2K 1/32W	[M]
R8225	ERJ2GEJ822X	8.2K 1/32W	[M]
R8230	ERJ2GEJ222X	2.2K 1/32W	[M]
R8231	ERJ2GEJ223X	22K 1/32W	[M]
R8232	ERJ2GEJ752X	7.5K 1/32W	[M]
R8251	ERJ6GEYJ6R8V	6.8 1/10W	[M]
R8261	ERJ2GEJ823X	82K 1/32W	[M]
R8262	ERJ2GEJ153X	15K 1/32W	[M]
R8263	ERJ2GEJ823X	82K 1/32W	[M]
R8264	ERJ2GEJ153X	15K 1/32W	[M]
R8311	ERJ2RHD242X	2.4K 1/32W	[M]
R8312	ERJ2RHD102X	1K 1/32W	[M]
R8313	ERJ2RHD153X	15K 1/32W	[M]
R8314	ERJ2RHD153X	15K 1/32W	[M]
R8315	ERJ2RKD240X	24 1/32W	[M]
R8316	ERJ2RKD240X	24 1/32W	[M]
R8317	ERJ2GEJ153X	15K 1/32W	[M]
R8318	ERJ2GEJ153X	15K 1/32W	[M]
R8321	ERJ3RBD201V	200 1/33W	[M]
R8322	ERJ3GEY0R00V	0 1/16W	[M]
R8323	ERJ2GEJ330X	33 1/32W	[M]
R8324	ERJ2GEJ102X	1K 1/32W	[M]
R8325	ERJ3RBD201V	200 3W	[M]
R8326	ERJ3GEY0R00V	0 1/16W	[M]
R8327	ERJ2GEJ330X	33 1/32W	[M]
R8328	ERJ2GEJ102X	1K 1/32W	[M]
R8331	ERJ3RBD201V	200 3W	[M]
R8332	ERJ3GEY0R00V	0 1/16W	[M]
R8333	ERJ2GEJ330X	33 1/32W	[M]
R8334	ERJ2GEJ102X	1K 1/32W	[M]
R8335	ERJ3RBD201V	200 3W	[M]
R8336	ERJ2GEJ330X	33 1/32W	[M]
R8337	ERJ2GEJ102X	1K 1/32W	[M]
R8341	ERJ3RBD201V	200 3W	[M]
R8342	ERJ2GEJ330X	33 1/32W	[M]
R8343	ERJ2GEJ102X	1K 1/32W	[M]
R8401	ERJ2GEJ101X	100 1/32W	[M]
R8402	ERJ2GEJ100X	10 1/32W	[M]
R8420	ERJ2GEJ222X	2.2K 1/32W	[M]
R8421	ERJ2GE0R00X	0 1/32W	[M]
R8531	ERJ2GEJ152X	1.5K 1/32W	[M]
R8532	ERJ2GEJ222X	2.2K 1/32W	[M]
R8533	ERJ2GE0R00X	0 1/32W	[M]
R8541	ERJ2GEJ153X	15K 1/32W	[M]
R8551	ERJ2GE0R00X	0 1/32W	[M]
R8552	ERJ2GEJ102X	1K 1/32W	[M]
R8553	ERJ2GEJ102X	1K 1/32W	[M]
R8554	ERJ2GEJ680X	68 1/32W	[M]
R8555	ERJ2GEJ2R2X	2.2 1/32W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R8556	ERJ3GEYJ560V	56 1/16W	[M]
R8557	ERJ3GEYJ510V	51 1/16W	[M]
R8558	ERJ2GEJ473X	47K 1/32W	[M]
R8559	ERJ2GEJ153X	15K 1/32W	[M]
R8561	ERJ2GE0R00X	0 1/32W	[M]
R8562	ERJ2GEJ102X	1K 1/32W	[M]
R8563	ERJ2GEJ102X	1K 1/32W	[M]
R8564	ERJ2GEJ220X	22 1/32W	[M]
R8565	ERJ2GEJ2R2X	2.2 1/32W	[M]
R8566	ERJ3GEYJ560V	56 1/16W	[M]
R8567	ERJ3GEYJ510V	51 1/16W	[M]
R8568	ERJ2GEJ473X	47K 1/32W	[M]
R8601	ERJ2GEJ104X	100K 1/32W	[M]
R8611	ERJ2GEJ101X	100 1/32W	[M]
R8613	ERJ2GEJ101X	100 1/32W	[M]
R8621	ERJ2GEJ105X	1M 1/32W	[M]
R8622	ERJ2RHD102X	1K 1/32W	[M]
R8901	ERJ2GEJ470X	47 1/32W	[M]
R9007	ERJ2GEJ103X	10K 1/32W	[M]
R9008	ERJ2GEJ105X	1M 1/32W	[M]
R9009	ERJ2GEJ102X	1K 1/32W	[M]
R9011	ERJ2GE0R00X	0 1/32W	[M]
R9012	ERJ2GE0R00X	0 1/32W	[M]
R9013	ERJ2GE0R00X	0 1/32W	[M]
R9014	ERJ2GE0R00X	0 1/32W	[M]
R9015	ERJ2GE0R00X	0 1/32W	[M]
R9016	ERJ2GE0R00X	0 1/32W	[M]
R9017	ERJ2GE0R00X	0 1/32W	[M]
R9022	ERJ2GE0R00X	0 1/32W	[M]
R9023	ERJ2GE0R00X	0 1/32W	[M]
R9024	ERJ2GEJ103X	10K 1/32W	[M]
R9025	ERJ2GEJ103X	10K 1/32W	[M]
R9026	ERJ2GEJ103X	10K 1/32W	[M]
R9027	ERJ2GEJ103X	10K 1/32W	[M]
R9028	ERJ2GEJ103X	10K 1/32W	[M]
R9029	ERJ2GEJ103X	10K 1/32W	[M]
R9035	ERJ2GE0R00X	0 1/32W	[M]
R9036	ERJ2GEJ103X	10K 1/32W	[M]
R9037	ERJ2GEJ103X	10K 1/32W	[M]
R9040	ERJ2GEJ103X	10K 1/32W	[M]
R9041	ERJ2GEJ103X	10K 1/32W	[M]
R9042	ERJ2GEJ103X	10K 1/32W	[M]
R9045	ERJ2GEJ103X	10K 1/32W	[M]
R9055	ERJ2GEJ103X	10K 1/32W	[M]
R9080	ERJ2GEJ103X	10K 1/32W	[M]
R9082	ERJ2GEJ103X	10K 1/32W	[M]
R9083	ERJ2GEJ470X	47 1/32W	[M]
R9084	ERJ2GEJ470X	47 1/32W	[M]
R9085	ERJ2GEJ470X	47 1/32W	[M]
R9086	ERJ2GEJ470X	47 1/32W	[M]
R9087	ERJ2GEJ470X	47 1/32W	[M]
R9088	ERJ2GEJ470X	47 1/32W	[M]
RX3707	D1H84714A024	CHIP RESISTOR	[M]
RX3708	D1H84714A024	CHIP RESISTOR	[M]
RX3901	D1H410120001	CHIP RESISTOR	[M]
RX8001	D1H410320002	CHIP RESISTOR	[M]
RX8011	D1H88204A024	CHIP RESISTOR	[M]
RX8012	D1H88204A024	CHIP RESISTOR	[M]
RX8013	D1H88204A024	CHIP RESISTOR	[M]
RX8014	D1H88204A024	CHIP RESISTOR	[M]
RX8015	D1H88204A024	CHIP RESISTOR	[M]
RX8016	D1H88204A024	CHIP RESISTOR	[M]
RX8017	D1H88204A024	CHIP RESISTOR	[M]
RX8018	D1H422020001	CHIP RESISTOR	[M]
RX8019	D1H422020001	CHIP RESISTOR	[M]
RX8020	D1H422020001	CHIP RESISTOR	[M]
RX8031	D1H447220001	CHIP RESISTOR	[M]
RX8032	D1H447220001	CHIP RESISTOR	[M]
RX8111	D1H422320002	CHIP RESISTOR	[M]
RX8401	D1H410120001	CHIP RESISTOR	[M]
RX8402	D1H410120001	CHIP RESISTOR	[M]
RX8531	D1H456020001	CHIP RESISTOR	[M]
RX8532	D1H85604A024	CHIP RESISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
RX8533	D1H456020001	CHIP RESISTOR	[M]
RX8534	D1H456020001	CHIP RESISTOR	[M]
RX8611	D1H447220001	CHIP RESISTOR	[M]
RX8691	D1H410320002	CHIP RESISTOR	[M]
RX9014	D1H85604A024	CHIP RESISTOR	[M]
RX9015	D1H85604A024	CHIP RESISTOR	[M]
RX9016	D1H85604A024	CHIP RESISTOR	[M]
RX9017	D1H85604A024	CHIP RESISTOR	[M]
RX9018	D1H447220001	CHIP RESISTOR	[M]
RX9019	D1H8R0040009	CHIP RESISTOR	[M]
RX9020	D1H447220001	CHIP RESISTOR	[M]
K2331	ERJ6GEY0R00V	CHIP RESISTOR	[M]
K2332	ERJ6GEY0R00V	CHIP RESISTOR	[M]
K2501	ERJ3GEY0R00V	CHIP JUMPER	[M]
K2502	ERJ3GEY0R00V	CHIP JUMPER	[M]
K3903	ERJ3GEY0R00V	CHIP JUMPER	[M]
K3905	ERJ2GE0R00X	CHIP JUMPER	[M]
K3908	ERJ3GEY0R00V	CHIP JUMPER	[M]
K5960	ERJ6GEY0R00V	CHIP RESISTOR	[M]
K8001	ERJ2GE0R00X	CHIP JUMPER	[M] (GC)
K8002	ERJ2GE0R00X	CHIP JUMPER	[M] (GCS)
K8003	ERJ2GE0R00X	CHIP JUMPER	[M] (GCS)
K8005	ERJ2GE0R00X	CHIP JUMPER	[M] (GC)
K8006	ERJ2GE0R00X	CHIP JUMPER	[M] (GC)
K8007	ERJ2GE0R00X	CHIP JUMPER	[M] (GCS)
K8008	ERJ2GE0R00X	CHIP JUMPER	[M] (GCS)
K8010	ERJ2GE0R00X	CHIP JUMPER	[M] (GC)
K8251	ERJ3GEY0R00V	CHIP JUMPER	[M]
		CAPACITORS	
C984	ECA1EAK100XE	10 25V	[M]
C1101	ECA1HAK010XB	1 50V	[M]
C1102	ECJ1VB1H102K	1000P 50V	[M]
C1103	ECA1CAK101XB	100 16V	[M]
C1104	ECJ1VB1C273K	0.027 16V	[M]
C1105	ECJ1VB1H471K	470P 50V	[M]
C1106	ECA1HAK2R2XB	2.2 50V	[M]
C1107	ECJ1VB1H152K	1500P 50V	[M]
C1108	ECA1CAK100XB	10 16V	[M]
C1109	ECA1HAK3R3XB	3.3 50V	[M]
C1110	ECJ1VB1H682K	6800P 50V	[M]
C1121	ECJ1VB1H102K	1000P 50V	[M]
C1122	ECJ1VB1H103K	0.01 50V	[M]
C1123	ECJ1VB1H271K	270P 50V	[M]
C1201	ECA1HAK010XB	1 50V	[M]
C1202	ECJ1VB1H102K	1000P 50V	[M]
C1203	ECA1CAK101XB	100 16V	[M]
C1204	ECJ1VB1C273K	0.027 16V	[M]
C1205	ECJ1VB1H471K	470P 50V	[M]
C1206	ECA1HAK2R2XB	2.2 50V	[M]
C1207	ECJ1VB1H152K	1500P 50V	[M]
C1208	ECA1CAK100XB	10 16V	[M]
C1209	ECA1HAK3R3XB	3.3 50V	[M]
C1210	ECJ1VB1H682K	6800P 50V	[M]
C1221	ECJ1VB1H102K	1000P 50V	[M]
C1222	ECJ1VB1H103K	0.01 50V	[M]
C1223	ECJ1VB1H271K	270P 50V	[M]
C1301	ECEA1HKA0R1B	0.1 50V	[M]
C1302	ECJ1VB1C333K	0.033 16V	[M]
C1304	ECEA1HKA4R7B	4.7 50V	[M]
C1305	ECA1CAK330XB	33 16V	[M]
C1307	ECA1AAK221XQ	220 10V	[M]
C1308	ECA1CAK220XB	22 16V	[M]
C1310	ECA1HAK0R1XB	0.1 50V	[M]
C1311	ECA1CAK470XB	47 16V	[M]
C1312	ECJ1VB1H332K	3300P 50V	[M]
C1314	ECJ1VB1H222K	2200P 50V	[M]
C1315	ECJ1VB1H222K	2200P 50V	[M]
C1316	ECJ1VB1H102K	1000P 50V	[M]
C1317	ECJ1VB1H102K	1000P 50V	[M]
C1318	ECQV1H473JZ3	0.047 50V	[M]
C1319	ECA1CAK101XB	100 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C1320	ECA1HAK010XB	1 50V	[M]
C1321	ECQB1H472JF3	4700P 50V	[M]
C1323	ECEA1HKN010B	1 50V	[M]
C1324	ECA1CAK470XB	47 16V	[M]
C1326	ECA1CAK100XB	10 16V	[M]
C2001	ECJ1VB1A105K	1 10V	[M]
C2002	ECJ1VB1A105K	1 10V	[M]
C2003	ECJ1VB1A105K	1 10V	[M]
C2004	ECJ1VB1A105K	1 10V	[M]
C2005	ECJ1VB1A105K	1 10V	[M]
C2006	ECJ1VB1A105K	1 10V	[M]
C2008	ECJ1VC1H101K	100P 50V	[M]
C2011	ECJ1VC1H101K	100P 50V	[M]
C2013	ECJ1VC1H470J	47P 50V	[M]
C2014	ECJ1VC1H470J	47P 50V	[M]
C2015	ECJ1VC1H680J	68P 50V	[M]
C2016	ECJ1VC1H101K	100P 50V	[M]
C2017	ECJ1VB1A105K	1 10V	[M]
C2018	ECJ1VB1A105K	1 10V	[M]
C2019	ECJ1VC1H101K	100P 50V	[M]
C2020	ECJ1VC1H101K	100P 50V	[M]
C2028	ECEA1HKA4R7B	4.7 50V	[M]
C2041	ECA1CM470B	47 16V	[M]
C2042	ECA1AM221B	220 10V	[M]
C2061	ECJ1VB1H104K	0.1 50V	[M]
C2062	ECJ1VB1H104K	0.1 50V	[M]
C2063	ECJ1VB1H102K	1000P 50V	[M]
C2064	ECJ1VB1H102K	1000P 50V	[M]
C2065	ECJ1VB1H102K	1000P 50V	[M]
C2066	ECJ1VB1H102K	1000P 50V	[M]
C2067	ECJ1VB1H271K	270P 50V	[M]
C2068	ECJ1VB1H271K	270P 50V	[M]
C2071	ECA1CM221B	220 16V	[M]
C2081	ECJ1VB1C224K	0.22 16V	[M]
C2082	ECJ1VB1C224K	0.22 16V	[M]
C2083	ECJ1VB1H331K	330P 50V	[M]
C2084	ECJ1VB1H331K	330P 50V	[M]
C2088	EEUFM1A681B	680P 10V	[M]
C2093	J0JBC0000015	INDUCTOR	[M]
C2094	J0JBC0000015	INDUCTOR	[M]
C2095	ECJ1VB1H561K	560P 50V	[M]
C2096	ECJ1VB1H561K	560P 50V	[M]
C2101	ECJ1VB1H822K	8200P 50V	[M]
C2102	ECJ1VB1H822K	8200P 50V	[M]
C2103	ECJ1VB1H472K	4700P 50V	[M]
C2104	ECJ1VB1H472K	4700P 50V	[M]
C2105	ECJ1VB1H153K	0.015 50V	[M]
C2106	ECJ1VB1H153K	0.015 50V	[M]
C2107	ECJ1VB1A124K	0.12 10V	[M]
C2108	ECJ1VB1A124K	0.12 10V	[M]
C2109	ECJ1VB1A124K	0.12 10V	[M]
C2110	ECJ1VB1A124K	0.12 10V	[M]
C2111	ECEA1HKA4R7B	4.7 50V	[M]
C2112	ECEA1HKA4R7B	4.7 50V	[M]
C2131	ECEA1HKN010B	1 50V	[M]
C2132	ECEA1HKN010B	1 50V	[M]
C2133	ECJ1VB1A334K	0.33 10V	[M]
C2134	ECJ1VB1A334K	0.33 10V	[M]
C2135	ECJ1VB1C224K	0.22 16V	[M]
C2136	ECJ1VB1C224K	0.22 16V	[M]
C2141	ECJ1VB1C683K	0.068 16V	[M]
C2142	ECJ1VB1C683K	0.068 16V	[M]
C2143	ECEA1HKA100B	10 50V	[M]
C2144	ECEA1HKA100B	1 50V	[M]
C2151	ECA1HM220B	22 50V	[M]
C2152	ECJ1VB1H223K	0.022 50V	[M]
C2153	ECEA1HKA100B	10 50V	[M]
C2154	ECJ1VB1C224K	0.22 16V	[M]
C2155	ECJ1VB1A224K	0.22 10V	[M]
C2156	ERJ3GEYJ682V	6.8K 1/16W	[M]
C2157	ECJ1VB1A124K	0.12 10V	[M]
C2158	ECJ1VB1H682K	6800P 50V	[M]
C2169	ECEA1HKA100B	10 50V	[M]
C2170	ECEA1HKA100B	10 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C2171	ECJ1VB1H332K	3300P 50V	[M]
C2172	ECJ1VB1H332K	3300P 50V	[M]
C2173	ECJ1VB1A154K	0.15 10V	[M]
C2174	ECJ1VB1A154K	0.15 10V	[M]
C2175	ECJ1VB1H223K	0.022 50V	[M]
C2176	ECJ1VB1H223K	0.022 50V	[M]
C2177	ECEA1HKA100B	10 50V	[M]
C2178	ECEA1HKA100B	10 50V	[M]
C2179	ECJ1VB1C823K	0.082 16V	[M]
C2231	ECJ1VC1H101K	100P 50V	[M] (GC/GS/GC S)
C2232	ECJ1VC1H101K	100P 50V	[M] (GC/GS/GC S)
C2239	ECEA1HKA100B	10 50V	[M]
C2245	ECJ1VB1A105K	1 10V	[M] (GC/GS/GC S)
C2246	ECJ1VC1H470K	47P 50V	[M] (GC/GS/GC S)
C2251	ECJ1VB1A105K	1 10V	[M] (GC/GS/GC S)
C2253	ECJ1VB1H152K	1500P 50V	[M] (GC/GS/GC S)
C2254	ECJ1VB1H682K	6800P 50V	[M] (GC/GS/GC S)
C2255	ECJ1VB1C683K	0.068 16V	[M] (GC/GS/GC S)
C2256	ECJ1VB1C224K	0.22 16V	[M] (GC/GS/GC S)
C2257	ECJ1VB1C224K	0.22 16V	[M] (GC/GS/GC S)
C2258	ECJ1VB1H153K	0.015 50V	[M] (GC/GS/GC S)
C2259	ECJ1VB1H682K	6800P 50V	[M] (GC/GS/GC S)
C2260	ECJ1VB1H152K	1500P 50V	[M] (GC/GS/GC S)
C2261	ECJ1VB1C683K	0.068 16V	[M] (GC/GS/GC S)
C2262	ECJ1VB1A105K	1 10V	[M] (GC/GS/GC S)
C2263	ECJ1VB1A105K	1 10V	[M] (GC/GS/GC S)
C2265	F2A1A470A388	47 10V	[M] (GC/GS/GC S)
C2266	ECA0JAK221XB	220 6.3V	[M] (GC/GS/GC S)
C2267	ECA0JAK221XB	220 6.3V	[M] (GC/GS/GC S)
C2268	ECJ1VB1A105K	1 10V	[M]
C2301	ECEA1HKN010B	1 50V	[M]
C2302	ECEA1HKN010B	1 50V	[M]
C2305	ECEA1HKA4R7B	4.7 50V	[M]
C2306	ECEA1HKA4R7B	4.7 50V	[M]
C2307	ECJ1VB1H182K	1800P 50V	[M]
C2308	ECJ1VB1H182K	1800P 50V	[M]
C2309	ECJ1VC1H470J	47P 50V	[M]
C2310	ECJ1VC1H470J	47P 50V	[M]
C2311	ECJ1VC1H101K	100P 50V	[M]
C2312	ECJ1VC1H101K	100P 50V	[M]
C2313	ECJ1VB1A334K	0.33 10V	[M]
C2314	ECJ1VB1A334K	0.33 10V	[M]
C2315	ECJ1VB1C224K	0.22 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C2316	ECJ1VB1C224K	0.22 16V	[M]
C2325	ECJ1VB1H473K	0.047 50V	[M]
C2326	ECJ1VB1H473K	0.047 50V	[M]
C2327	ECJ1VB1C563K	0.056 16V	[M]
C2328	ECJ1VB1C563K	0.056 16V	[M]
C2335	ECJ1VB1C393K	0.039 16V	[M]
C2336	ECJ1VB1C393K	0.039 16V	[M]
C2341	ECJ1VB1H102K	1000P 50V	[M]
C2345	ECJ1VC1H470J	47P 50V	[M]
C2346	ECJ1VC1H470J	47P 50V	[M]
C2347	ECJ1VC1H101K	100P 50V	[M]
C2348	ECJ1VC1H101K	100P 50V	[M]
C2351	ECJ1VB1A225K	2.2 10V	[M]
C2352	ECJ1VB1A225K	2.2 10V	[M]
C2365	ECEA1CKA470B	47 16V	[M]
C2366	ECEA1CKA470B	47 16V	[M]
C2367	ECJ1VB1H102K	1000P 50V	[M]
C2368	ECJ1VB1H102K	1000P 50V	[M]
C2371	ECJ1VB1H103K	0.01 50V	[M]
C2373	ECA1AM331B	330 10V	[M]
C2374	ECA1AM331B	330 10V	[M]
C2375	ECA1AM331B	330 10V	[M]
C2376	ECEA1HKA4R7B	4.7 50V	[M]
C2378	ECA1AM331B	330 10V	[M]
C2391	ECJ1VB1A474K	0.47 10V	[M]
C2392	ECJ1VB1A474K	0.47 10V	[M]
C2400	ECJ1VC1H101J	100P 50V	[M]
C2401	ECJ1VB1H103K	0.01 50V	[M]
C2402	ECJ1VB1H104K	0.1 50V	[M]
C2403	ECJ1VB1H104K	0.1 50V	[M]
C2404	ECJ1VB1C105K	1 16V	[M]
C2405	ECJ1VB1C105K	1 16V	[M]
C2406	ECJ1VC1H101J	100P 50V	[M]
C2407	ECJ1VC1H101J	100P 50V	[M]
C2408	ECJ1VC1H101J	100P 50V	[M]
C2409	ECJ1VC1H101J	100P 50V	[M]
C2410	ECJ1VB1H103K	0.01 50V	[M]
C2411	ECA1AM221B	220 10V	[M]
C2412	ECA1AM221B	220 10V	[M]
C2416	ECJ1VB1H103K	0.01 50V	[M]
C2417	ECJ1VB1H681K	680P 50V	[M]
C2418	ECJ1VC1H101J	100P 50V	[M]
C2419	ECJ1VB1H331K	330P 50V	[M]
C2420	ECJ1VB1H331K	330P 50V	[M]
C2421	ECJ1VB1H104K	0.1 50V	[M]
C2422	ECA0JM102B	1000 6.3V	[M]
C2423	ECA0JM102B	1000 6.3V	[M]
C2426	ECA0JM102B	1000 6.3V	[M]
C2427	ECA0JM331B	330 6.3V	[M]
C2428	ECA0JM331B	330 6.3V	[M]
C2429	ECJ1VC1H101J	100P 50V	[M]
C2441	ECJ1VB1H102K	1000P 50V	[M]
C2601	ECEA1HKA100B	10 50V	[M]
C2603	ECJ1VB1H223K	0.022 50V	[M]
C2604	ECJ1VC1H101K	100P 50V	[M]
C2606	ECEA1HKA4R7B	4.7 50V	[M]
C2612	ECEA1HKA100B	10 50V	[M]
C2613	ECEA1HKA100B	10 50V	[M]
C2617	ECJ1VC1H221J	220P 50V	[M]
C2618	ECEA1HKA010B	1 50V	[M]
C2620	ECJ1VB1A474K	0.47 10V	[M]
C2621	ECJ1VC1H101K	100P 50V	[M]
C2623	ECEA1EKS4R7B	4.7 25V	[M]
C2626	ECJ1VC1H330J	33P 50V	[M]
C2630	ECJ1VB1H182K	1800P 50V	[M]
C2631	ECJ1VB1H153K	0.015 50V	[M]
C2637	ECEA1HKN010B	1 50V	[M]
C2646	ECEA1HKA4R7B	4.7 50V	[M]
C2701	ECJ1VB1H103K	0.01 50V	[M]
C2702	ECJ1VB1H103K	0.01 50V	[M]
C2704	ECJ1VB1H103K	0.01 50V	[M]
C2705	ECJ1VB1C104K	0.1 16V	[M]
C2706	ECA1CM221B	220 16V	[M]
C2707	ECJ1VB1H103K	0.01 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C2708	ECJ1VB1C104K	0.1 16V	[M]
C2709	ECA1CM221B	220 16V	[M]
C2710	ECEA1AKA330B	33 10V	[M]
C2712	ECJ1VB1C104K	0.1 16V	[M]
C2713	ECA1AM221B	220 10V	[M]
C2714	ECA1AM221B	220 10V	[M]
C2715	ECJ1VB1C104K	0.1 16V	[M]
C2716	ECJ1VB1C104K	0.1 16V	[M]
C2717	ECA1CM101B	100 16V	[M]
C2718	ECA1CM101B	100 16V	[M]
C2719	ECJ1VB1H103K	0.01 50V	[M]
C2720	ECJ1VB1H103K	0.01 50V	[M]
C2721	ECJ1VB1E103K	0.01 25V	[M]
C2722	ECJ1VB1E103K	0.01 25V	[M]
C2723	ECEA1AKA221B	220 10V	[M]
C2724	ECEA1AKA221B	220 10V	[M]
C2725	ECJ1VB1H104K	0.1 50V	[M]
C2726	ECJ1VB1H104K	0.1 50V	[M]
C2727	ECJ1VB1H103K	0.01 50V	[M]
C2728	ECJ1VB1H103K	0.01 50V	[M]
C2731	ECJ1VB1H103K	0.01 50V	[M]
C2732	ECJ1VB1H103K	0.01 50V	[M]
C2741	ECJ1VB1H103K	0.01 50V	[M]
C2742	ECA1EM102B	1000 25V	[M]
C2743	EEUFC0J821B	820P 6.3V	[M]
C2744	ECJ1VB1H103K	0.01 50V	[M]
C2745	ECJ1VC1H101J	100P 50V	[M]
C2746	ECEA1CKA101B	100 16V	[M]
C2747	ECJ1VB1C105K	1 16V	[M]
C2748	ECA0JAK221XB	220 6.3V	[M]
C2749	ECJ1VB1H103K	0.01 50V	[M]
C2751	ECA0JAK221XB	220 6.3V	[M]
C2752	ECJ1VB1H103K	0.01 50V	[M]
C2754	ECJ1VB1H103K	0.01 50V	[M]
C2756	ECEA1CKA101B	100 16V	[M]
C2757	ECA0JAK221XB	220 6.3V	[M]
C2758	ECJ1VB1H103K	0.01 50V	[M]
C2761	ECA1EM102B	1000 25V	[M]
C2762	ECJ1VB1H104K	0.1 50V	[M]
C2763	ECEA1CKA101B	100 16V	[M]
C2764	ECJ1VB1H103K	0.01 50V	[M]
C2765	ECJ1VB1H103K	0.01 50V	[M]
C2766	ECEA1CKA470B	47 16V	[M]
C2767	ECEA1CKA470B	47 16V	[M]
C2768	ECJ1VB1H103K	0.01 50V	[M]
C2769	ECEA1AKA220B	22 10V	[M]
C2771	ECJ1VB1H103K	0.01 50V	[M]
C2781	ECA1CM470B	47 16V	[M]
C2782	ECJ1VC1H101K	100P 50V	[M]
C2783	ECA0JM101B	100 6.3V	[M]
C2784	F2A1A221A161	220 10V	[M]
C2785	ECEA1HKA4R7B	4.7 50V	[M]
C2790	ECJ1VB1C104K	0.1 16V	[M]
C2791	ECA1CM330B	33 16V	[M]
C2799	ECA0JAK221XB	220 6.3V	[M]
C2803	ECEA1HKA3R3B	3.3 50V	[M]
C2804	ECJ1VB1H103K	0.01 50V	[M]
C2806	ECJ1VB1A124K	0.12 10V	[M]
C2812	ECA0JM221B	220 6.3V	[M]
C2813	ECJ1VB1H104K	0.1 50V	[M]
C2824	ECJ1VB1H331K	330P 50V	[M]
C2826	ECJ1VB1H331K	330P 50V	[M]
C2827	ECJ1VB1H223K	0.022 50V	[M]
C2843	ECEA1HKA4R7B	4.7 50V	[M]
C2847	ECEA1HKA4R7B	4.7 50V	[M]
C2851	ECJ1VB1H221K	220P 50V	[M]
C2900	ECJ1VB1H471K	470P 50V	[M]
C2910	ECJ1VC1H180J	18P 50V	[M]
C2911	ECJ1VC1H220J	22P 50V	[M]
C2918	ECJ1VC1H101K	100P 50V	[M]
C2931	ECJ1VC1H101K	100P 50V	[M]
C2933	ECJ1VC1H101K	100P 50V	[M]
C2935	ECJ1VC1H101K	100P 50V	[M]
C2936	ECJ1VC1H101K	100P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C2937	ECJ1VC1H101K	100P 50V	[M]
C2938	ECJ1VC1H101K	100P 50V	[M]
C2942	ECJ1VC1H101K	100P 50V	[M]
C2950	ECJ1VC1H101K	100P 50V	[M]
C2969	ECJ1VB1H103K	0.01 50V	[M]
C2975	ECJ1VC1H101K	100P 50V	[M]
C2976	ECJ1VC1H101K	100P 50V	[M]
C2980	ECJ1VB1H103K	0.01 50V	[M]
C2984	ECJ1VB1H221K	220P 50V	[M]
C2985	ECJ1VB1H221K	220P 50V	[M]
C2989	ECJ1VB1H102K	1000P 50V	[M]
C2990	ECJ1VB1H102K	1000P 50V	[M]
C2992	ECJ1VB1H471K	470P 50V	[M]
C2993	ECJ1VB1H471K	470P 50V	[M]
C2994	ECJ1VB1H471K	470P 50V	[M]
C2997	ECJ1VB1H103K	0.01 50V	[M]
C3901	EEE0GA331WP	330P 4V	[M]
C3902	EEE0GA331WP	330P 4V	[M]
C3904	EEE0GA331WP	330P 4V	[M]
C3906	EEE0GA331WP	330P 4V	[M]
C3907	ECJ0EB1A104K	0.1 10V	[M]
C3908	ECJ0EB1A104K	0.1 10V	[M]
C3909	ECJ1VB0J105K	1 6.3V	[M]
C3910	ECJ0EB1A104K	0.1 10V	[M]
C3911	ECJ1VB0J105K	1 6.3V	[M]
C3913	ECJ0EB1A104K	0.1 10V	[M]
C3914	ECJ0EB1A104K	0.1 10V	[M]
C3915	ECJ1VB0J105K	1 6.3V	[M]
C3916	ECJ0EB1A104K	0.1 10V	[M]
C3917	ECJ1VB0J105K	1 6.3V	[M]
C3918	ECJ0EB1A104K	0.1 10V	[M]
C3919	ECJ1VB0J105K	1 6.3V	[M]
C3920	ECJ1VB0J105K	1 6.3V	[M]
C3921	ECJ0EB1A104K	0.1 10V	[M]
C3922	ECJ0EB1A104K	0.1 10V	[M]
C3923	ECJ1VB0J105K	1 6.3V	[M]
C3924	ECJ1VB0J105K	1 6.3V	[M]
C3925	ECJ0EB1A104K	0.1 10V	[M]
C3926	ECJ0EB1A104K	0.1 10V	[M]
C3927	ECJ1VB0J105K	1 6.3V	[M]
C3928	ECJ0EB1A104K	0.1 10V	[M]
C3929	ECJ0EB1A104K	0.1 10V	[M]
C3930	ECJ1VB0J105K	1 6.3V	[M]
C3932	ECJ1VB0J105K	1 6.3V	[M]
C3940	ECJ0EB1A104K	0.1 10V	[M]
C3941	ECJ0EC1H221J	220P 50V	[M]
C3954	ECJ0EF1C104Z	0.1 16V	[M]
C3955	ECJ0EB1C103K	0.01 16V	[M]
C3956	ECJ1VB0J105K	1 6.3V	[M]
C3964	ECJ0EB1A104K	0.1 10V	[M]
C5000	ECJ1VB1H103K	0.01 50V	[M]
C5033	ECJ1VB1H104K	0.1 50V	[M]
C5101	ECA1VM102B	1000 35V	[M]
C5102	ECA2AM100B	10 100V	[M]
C5103	ECA2AM100B	10 100V	[M]
C5104	ECA1VM102B	1000 35V	[M]
C5109	ECA1EM101B	100 25V	[M]
C5110	ECA1EM101B	100 25V	[M]
C5114	ECJ1VB1H104K	0.1 50V	[M]
C5115	ECJ1VB1H104K	0.1 50V	[M]
C5133	ECA0JAK101XB	100 6.3V	[M]
C5151	F1B1H103A153	0.01 50V	[M]
C5152	ECJ1VB1H104K	0.1 50V	[M]
C5153	ECJ1VB1H104K	0.1 50V	[M]
C5157	ECJ1VB1H103K	0.01 50V	[M]
C5181	F1B1H103A153	0.01 50V	[M]
C5182	ECJ1VB1H104K	0.1 50V	[M]
C5201	ECJ1VB1H102K	1000P 50V	[M]
C5202	ECA1CAK100XB	10 16V	[M]
C5206	ECJ1VB1H102K	1000P 50V	[M]
C5215	ECJ1VB1H104K	0.1 50V	[M]
C5216	ECJ1VB1H104K	0.1 50V	[M]
C5217	ECJ1VB1H104K	0.1 50V	[M]
C5218	ECJ1VB1H104K	0.1 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C5219	ECJ1VB1H331K	330P 50V	[M]
C5220	ECJ1VB1H331K	330P 50V	[M]
C5221	ECJ1VB1H104K	0.1 50V	[M]
C5222	ECJ1VB1H104K	0.1 50V	[M]
C5223	ECJ1VB1H104K	0.1 50V	[M]
C5224	ECJ1VB1H104K	0.1 50V	[M]
C5225	ECJ3YB2A104K	0.1 100V	[M]
C5226	ECJ3YB2A104K	0.1 100V	[M]
C5227	ECJ1VC1H221J	220P 50V	[M]
C5229	ECJ3YB2A104K	0.1 100V	[M]
C5230	ECJ3YB2A104K	0.1 100V	[M]
C5231	ECJ1VB1H104K	0.1 50V	[M]
C5232	ECQV1H104JL3	0.1 50V	[M]
C5233	ECJ2VC2A221J	220P 100V	[M]
C5234	ECJ2VC2A221J	220P 100V	[M]
C5235	ECJ2VC2A221J	220P 100V	[M]
C5236	ECJ2VC2A221J	220P 100V	[M]
C5237	ECJ1VB1H153K	0.015 50V	[M]
C5238	ECJ1VB1H153K	0.015 50V	[M]
C5239	ECJ1VB1H104K	0.1 50V	[M]
C5240	ECJ1VB1H104K	0.1 50V	[M]
C5241	ECJ1VF1C474Z	0.47 16V	[M]
C5251	F2A1V4710036	470 35V	[M] △
C5252	F2A1V4710036	470 35V	[M] △
C5253	ECJ1VB1H104K	0.1 50V	[M]
C5254	ECJ1VB1H104K	0.1 50V	[M]
C5255	ECA2AM220B	22 100V	[M]
C5271	ECQV1H684JL3	0.68 50V	[M]
C5272	ECQV1H684JL3	0.68 50V	[M]
C5273	ECJ1VB1H104K	0.1 50V	[M]
C5274	ECJ1VB1H104K	0.1 50V	[M]
C5275	ECJ1VB1H104K	0.1 50V	[M]
C5276	ECJ1VB1H104K	0.1 50V	[M]
C5277	ECJ1VB1A105K	1 10V	[M]
C5278	ECJ1VB1A105K	1 10V	[M]
C5301	ECJ1VB1H102K	1000P 50V	[M]
C5302	ECA1CAK100XB	10 16V	[M]
C5305	ECJ1VB1H102K	1000P 50V	[M]
C5306	ECJ1VB1H102K	1000P 50V	[M]
C5315	ECJ1VB1A474K	0.47 10V	[M]
C5316	ECJ1VB1A474K	0.47 10V	[M]
C5317	ECJ1VB1A474K	0.47 10V	[M]
C5318	ECJ1VB1A474K	0.47 10V	[M]
C5319	ECJ1VB1H331K	330P 50V	[M]
C5320	ECJ1VB1H331K	330P 50V	[M]
C5321	ECJ1VB1H104K	0.1 50V	[M]
C5322	ECJ1VB1H104K	0.1 50V	[M]
C5323	ECJ1VB1H104K	0.1 50V	[M]
C5324	ECJ1VB1H104K	0.1 50V	[M]
C5325	ECJ3YB2A104K	0.1 100V	[M]
C5326	ECJ3YB2A104K	0.1 100V	[M]
C5327	ECJ1VC1H221J	220P 50V	[M]
C5329	ECJ3YB2A104K	0.1 100V	[M]
C5330	ECJ3YB2A104K	0.1 100V	[M]
C5331	ECJ1VB1H104K	0.1 50V	[M]
C5332	ECQV1H104JL3	0.1 50V	[M]
C5333	ECJ2VC2A221J	220P 100V	[M]
C5334	ECJ2VC2A221J	220P 100V	[M]
C5335	ECJ2VC2A221J	220P 100V	[M]
C5336	ECJ2VC2A221J	220P 100V	[M]
C5337	ECJ1VB1H153K	0.015 50V	[M]
C5338	ECJ1VB1H153K	0.015 50V	[M]
C5339	ECJ1VB1H104K	0.1 50V	[M]
C5340	ECJ1VB1H104K	0.1 50V	[M]
C5341	ECJ1VF1C474Z	0.47 16V	[M]
C5351	F2A1V4710036	470 35V	[M] △
C5352	F2A1V4710036	470 35V	[M] △
C5353	ECJ1VB1H104K	0.1 50V	[M]
C5354	ECJ1VB1H104K	0.1 50V	[M]
C5355	ECA2AM220B	22 100V	[M]
C5371	ECQV1H684JL3	0.68 50V	[M]
C5372	ECQV1H684JL3	0.68 50V	[M]
C5373	ECJ1VB1H104K	0.1 50V	[M]
C5374	ECJ1VB1H104K	0.1 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C5375	ECJ1VB1H104K	0.1 50V	[M]
C5376	ECJ1VB1H104K	0.1 50V	[M]
C5377	ECJ1VB1A105K	1 10V	[M]
C5378	ECJ1VB1A105K	1 10V	[M]
C5400	ECJ1VB1H103K	0.01 50V	[M]
C5401	ECJ1VB1H102K	1000P 50V	[M]
C5405	ECJ1VB1H102K	1000P 50V	[M]
C5406	ECJ1VB1H102K	1000P 50V	[M]
C5415	ECJ1VB1H104K	0.1 50V	[M]
C5416	ECJ1VB1H104K	0.1 50V	[M]
C5417	ECJ1VB1H104K	0.1 50V	[M]
C5418	ECJ1VB1H104K	0.1 50V	[M]
C5419	ECJ1VB1H331K	330P 50V	[M]
C5420	ECJ1VB1H331K	330P 50V	[M]
C5421	ECJ1VB1H104K	0.1 50V	[M]
C5422	ECJ1VB1H104K	0.1 50V	[M]
C5423	ECJ1VB1H104K	0.1 50V	[M]
C5424	ECJ1VB1H104K	0.1 50V	[M]
C5425	ECJ3YB2A104K	0.1 100V	[M]
C5426	ECJ3YB2A104K	0.1 100V	[M]
C5427	ECJ1VC1H221J	220P 50V	[M]
C5429	ECJ3YB2A104K	0.1 100V	[M]
C5430	ECJ3YB2A104K	0.1 100V	[M]
C5431	ECJ1VB1H104K	0.1 50V	[M]
C5432	ECQV1H104JL3	0.1 50V	[M]
C5433	ECJ2VC2A221J	220P 100V	[M]
C5434	ECJ2VC2A221J	220P 100V	[M]
C5435	ECJ2VC2A221J	220P 100V	[M]
C5436	ECJ2VC2A221J	220P 100V	[M]
C5437	ECJ1VB1H153K	0.015 50V	[M]
C5438	ECJ1VB1H153K	0.015 50V	[M]
C5439	ECJ1VB1H104K	0.1 50V	[M]
C5440	ECJ1VB1H104K	0.1 50V	[M]
C5441	ECJ1VF1C474Z	0.47 16V	[M]
C5450	ECJ1VB1A105K	1 10V	[M]
C5451	F2A1V4710036	470 35V	[M] △
C5452	F2A1V4710036	470 35V	[M] △
C5453	ECJ1VB1H104K	0.1 50V	[M]
C5454	ECJ1VB1H104K	0.1 50V	[M]
C5455	ECA2AM220B	22 100V	[M]
C5471	ECQV1H684JL3	0.68 50V	[M]
C5472	ECQV1H684JL3	0.68 50V	[M]
C5473	ECJ1VB1H104K	0.1 50V	[M]
C5474	ECJ1VB1H104K	0.1 50V	[M]
C5475	ECJ1VB1H104K	0.1 50V	[M]
C5476	ECJ1VB1H104K	0.1 50V	[M]
C5477	ECJ1VB1A105K	1 10V	[M]
C5478	ECJ1VB1A105K	1 10V	[M]
C5505	ECJ1VB1H102K	1000P 50V	[M]
C5512	F2A1V1020084	1000 35V	[M] △
C5513	F2A1V1020084	1000 35V	[M] △
C5514	ECJ1VB1H104K	0.1 50V	[M]
C5515	ECJ1VB1H104K	0.1 50V	[M]
C5518	ECJ1VB1H104K	0.1 50V	[M]
C5519	ECJ1VB1H104K	0.1 50V	[M]
C5550	ECJ1VB1H103K	0.01 50V	[M]
C5551	ECJ1VC1H101K	100P 50V	[M]
C5552	ECJ1VB1H391K	390P 50V	[M]
C5553	ECJ1VB1H103K	0.01 50V	[M]
C5560	ECJ1VB1H103K	0.01 50V	[M]
C5561	ECJ1VC1H101J	100P 50V	[M]
C5562	ECJ1VB1H391K	390P 50V	[M]
C5563	ECJ1VB1H103K	0.01 50V	[M]
C5571	ECJ3YB1C106K	10 16V	[M]
C5572	ECJ1VB1H104K	0.1 50V	[M]
C5573	ECA0JM331B	330 6.3V	[M]
C5744	ECJ1VB1H104K	0.1 50V	[M]
C5910	ECJ1VB1H103K	0.01 50V	[M]
C5920	ECA1JM222B	2200 63V	[M]
C5921	ECJ3YB2A104K	0.1 100V	[M]
C5940	ECA1JM222B	2200 63V	[M]
C5941	ECJ3YB2A104K	0.1 100V	[M]
C5950	F2A1V102A082	1000 35V	[M]
C5951	ECQU2A104MLC	0.1	[M] △

Ref. No.	Part No.	Part Name & Description	Remarks
C5952	ECA1AM470B	47 10V	[M]
C5953	ECJ1VB1H103K	0.01 50V	[M]
C5954	ECJ1VB1H103K	0.01 50V	[M]
C5955	ECA2AM220B	22 100V	[M]
C5956	ECA2AM220B	22 100V	[M]
C5957	ECA1HM100B	10 50V	[M]
C5958	ECJ1VB1H103K	0.01 50V	[M]
C5959	ECJ1VB1H103K	0.01 50V	[M]
C5960	ECQE2104KF3	0.1 250V	[M]
C5961	ECA1EM101B	100 25V	[M] (GCS)
C5962	ECA1EM101B	100 25V	[M] (GCS)
C5963	ECEA1HKA4R7B	4.7 50V	[M]
C5964	ECJ1VB1H103K	0.01 50V	[M] (GCS)
C5965	ECJ1VB1H103K	0.01 50V	[M]
C5966	F2A1V102A082	1000 35V	[M]
C5971	ECEA1EKA220B	22 25V	[M]
C5981	ECA2AM470B	47 100V	[M]
C5982	ECA2AM470B	47 100V	[M]
C5983	ECJ1VB1H103K	0.01 50V	[M]
C5984	ECA2AM220B	22 100V	[M]
C5985	ECJ1VB1H103K	0.01 50V	[M]
C5986	ECA1HM470B	47 50V	[M]
C6502	ECA0JM101B	100 6.3V	[M]
C6503	ECJ1VB1H104K	0.1 50V	[M]
C6504	ECJ1VB1H104K	0.1 50V	[M]
C6505	ECA2AM220B	22 100V	[M]
C6510	ECJ1VB1H331K	330P 50V	[M]
C6512	ECJ1VB1H104K	0.1 50V	[M]
C6521	ECJ1VC1H101K	100P 50V	[M]
C6522	ECJ1VC1H101K	100P 50V	[M]
C6523	ECJ1VC1H101K	100P 50V	[M]
C6531	ECJ1VB1H103K	0.01 50V	[M]
C6532	ECJ1VB1H103K	0.01 50V	[M]
C6533	ECJ1VB1H103K	0.01 50V	[M]
C6534	ECJ1VB1C104K	0.1 16V	[M]
C6535	ECJ1VB1H102K	1000P 50V	[M] (GC/GS/GC S)
C6536	ECJ1VB1H102K	1000P 50V	[M] (GC/GS/GC S)
C6601	ECJ1VC1H101K	100P 50V	[M]
C6603	ECJ1VC1H101K	100P 50V	[M]
C6604	ECJ1VC1H101K	100P 50V	[M]
C6623	ECJ1VB1A225K	2.2 10V	[M]
C6636	ECJ1VC1H101K	100P 50V	[M]
C6701	ECEA1HKA220B	22 50V	[M]
C6702	ECJ1VC1H101K	100P 50V	[M]
C6704	ECJ1VC1H101K	100P 50V	[M]
C6705	ECEA1HKA220B	22 50V	[M]
C6706	ECJ1VC1H101K	100P 50V	[M]
C6708	ECJ1VB1C104K	0.1 16V	[M]
C6716	ECEA1HKA220B	22 50V	[M]
C6717	ECEA1HKA220B	22 50V	[M]
C6718	ECEA1HKA220B	22 50V	[M]
C6719	ECJ1VB1H103K	0.01 50V	[M]
C6720	ECJ1VC1H101K	100P 50V	[M]
C6733	ECJ1VB1C104K	0.1 16V	[M]
C6801	ECJ1VB1H473K	0.047 50V	[M]
C6802	ECJ1VB1H473K	0.047 50V	[M]
C6805	ECJ1VC1H101K	100P 50V	[M]
C6807	ECJ1VB1H102K	1000P 50V	[M]
C6811	ECJ1VB1H103K	0.01 50V	[M]
C6812	ECJ1VB1H103K	0.01 50V	[M]
C6813	ECJ2VB1H331K	330P 50V	[M]
C6814	ECJ2VB1H331K	330P 50V	[M]
C6815	ECJ1VB1H102K	1000P 50V	[M]
C6816	ECEA1HKA220B	22 50V	[M]
C6817	ECEA1HKA220B	22 50V	[M]
C6901	ECJ1VB1H223K	0.022 50V	[M] (GC/GS/GC S)
C6902	ECJ1VB1H223K	0.022 50V	[M] (GC/GS/GC S)

Ref. No.	Part No.	Part Name & Description	Remarks
C6903	ECJ1VB1H103K	0.01 50V	[M] (GC/GS/GC S)
C6904	ERJ3GEY0R00V	0 1/16W	[M] (GN)
C6905	ECEA1HKA3R3B	3.3 50V	[M] (GC/GS/GC S)
C6907	ECJ1VB1H471K	470P 50V	[M] (GC/GS/GC S)
C6908	ECEA1HKA4R7B	4.7 50V	[M] (GC/GS/GC S)
C6909	ECJ1VC1H101K	100P 50V	[M] (GC/GS/GC S)
C6910	ECEA1HKAR33B	0.33 50V	[M] (GC/GS/GC S)
C6911	ECJ1VB1H473K	0.047 50V	[M] (GC/GS/GC S)
C6912	ECEA1HKA010B	1 50V	[M] (GC/GS/GC S)
C6913	ECJ1VB1H102K	1000P 50V	[M] (GC/GS/GC S)
C6914	ECJ1VC1H101K	100P 50V	[M] (GC/GS/GC S)
C6915	ECEA1HKA010B	1 50V	[M] (GC/GS/GC S)
C6916	ECJ1VB1H102K	1000P 50V	[M] (GC/GS/GC S)
C6917	ECA1CM102B	1000 16V	[M] (GC/GS/GC S)
C6921	ECJ1VB1C104K	0.1 16V	[M] (GC/GS/GC S)
C6931	F2A1A470A388	47 10V	[M]
C6932	F2A1A470A388	47 10V	[M] (GC/GS/GC S)
C8001	EEE0GA331WP	330P 4V	[M]
C8003	ECJ0EF1C104Z	0.1 16V	[M]
C8004	ECJ0EF1C104Z	0.1 16V	[M]
C8005	ECJ0EF1C104Z	0.1 16V	[M]
C8006	ECJ0EF1C104Z	0.1 16V	[M]
C8007	ECJ0EF1C104Z	0.1 16V	[M]
C8011	F2G0J101A066	100 6.3V	[M]
C8012	ECJ0EF1C104Z	0.1 16V	[M]
C8013	ECJ0EF1C104Z	0.1 16V	[M]
C8014	ECJ0EF1C104Z	0.1 16V	[M]
C8015	ECJ0EF1C104Z	0.1 16V	[M]
C8016	ECJ0EF1C104Z	0.1 16V	[M]
C8018	ECJ0EF1C104Z	0.1 16V	[M]
C8020	ECJ0EF1C104Z	0.1 16V	[M]
C8021	ECJ0EF1C104Z	0.1 16V	[M]
C8022	ECJ0EF1C104Z	0.1 16V	[M]
C8023	ECJ0EF1C104Z	0.1 16V	[M]
C8026	ECJ0EF1C104Z	0.1 16V	[M]
C8051	ECJ1VB0J105K	1 6.3V	[M]
C8052	ECJ0EB1A104K	0.1 10V	[M]
C8053	ECJ0EF1C104Z	0.1 16V	[M]
C8054	ECJ0EC1H221J	220P 50V	[M]
C8055	ECJ1VB0J105K	1 6.3V	[M]
C8056	ECJ0EB1E222K	2200P 25V	[M]
C8057	ECJ1VB0J105K	1 6.3V	[M]
C8111	ECJ0EB1A104K	0.1 10V	[M]
C8112	ECJ1VB0J105K	1 6.3V	[M]
C8113	ECJ0EB1E471K	470P 25V	[M]
C8151	ECJ1VB0J475K	4.7 6.3V	[M]
C8152	ECJ1VB1C105K	1 16V	[M]
C8201	F2G0J101A066	100 6.3V	[M]
C8202	ECJ0EB1A104K	0.1 10V	[M]
C8203	ECJ0EB1A104K	0.1 10V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C8211	ECJ0EB1E122K	1200P 25V	[M]
C8221	ECJ0EB1E102K	1000P 25V	[M]
C8222	ECJ0EB1E821K	820P 25V	[M]
C8225	ECJ0EB1E102K	1000P 25V	[M]
C8226	ECJ0EB1E102K	1000P 25V	[M]
C8231	ECJ0EB1A104K	0.1 10V	[M]
C8232	ECJ0EB1A104K	0.1 10V	[M]
C8251	F2G0J221A065	220 6.3V	[M]
C8252	ECJ0EF1C104Z	0.1 16V	[M]
C8253	ECJ0EF1C104Z	0.1 16V	[M]
C8255	F2G1C220A037	22 16V	[M]
C8256	ECJ0EF1C104Z	0.1 16V	[M]
C8257	F2G1C470A076	47 16V	[M]
C8258	ECJ0EF1C104Z	0.1 16V	[M]
C8261	ECJ0EF1C104Z	0.1 16V	[M]
C8262	ECJ0EF1C104Z	0.1 16V	[M]
C8301	F2G0J221A031	220 6.3V	[M]
C8302	F2G0J330A031	33 6.3V	[M]
C8303	ECJ0EB1A104K	0.1 10V	[M]
C8304	ECJ0EB1A104K	0.1 10V	[M]
C8305	ECJ0EB1A104K	0.1 10V	[M]
C8306	ECJ0EB1A104K	0.1 10V	[M]
C8311	ECJ0EB1A104K	0.1 10V	[M]
C8312	ECJ1VB0J105K	1 6.3V	[M]
C8313	ECJ1VB0J105K	1 6.3V	[M]
C8320	ECJ0EF1C104Z	0.1 16V	[M]
C8321	ECJ0EB1A104K	0.1 10V	[M]
C8325	ECJ0EB1A104K	0.1 10V	[M]
C8330	F2G0J470A031	47 6.3V	[M]
C8331	ECJ0EB1A104K	0.1 10V	[M]
C8335	ECJ0EB1A104K	0.1 10V	[M]
C8340	ECJ0EF1C104Z	0.1 16V	[M]
C8341	ECJ0EB1A104K	0.1 10V	[M]
C8401	ECJ0EC1H150J	15P 50V	[M]
C8421	F2G0J101A083	100 6.3V	[M]
C8422	ECJ0EF1C104Z	0.1 16V	[M]
C8423	F2G0J330A083	33 6.3V	[M]
C8424	ECJ0EF1C104Z	0.1 16V	[M]
C8426	ECJ0EF1C104Z	0.1 16V	[M]
C8427	ECJ0EF1C104Z	0.1 16V	[M]
C8428	ECJ0EF1C104Z	0.1 16V	[M]
C8429	ECJ0EF1C104Z	0.1 16V	[M]
C8430	ECJ0EF1C104Z	0.1 16V	[M]
C8501	F2G0J101A031	100 6.3V	[M]
C8502	ECJ0EF1C104Z	0.1 16V	[M]
C8503	ECJ0EF1C104Z	0.1 16V	[M]
C8504	ECJ0EF1C104Z	0.1 16V	[M]
C8505	ECJ0EF1C104Z	0.1 16V	[M]
C8506	ECJ0EF1C104Z	0.1 16V	[M]
C8511	ECJ1VB0J105K	1 6.3V	[M]
C8512	ECJ1VB0J105K	1 6.3V	[M]
C8513	ECJ0EB1A104K	0.1 10V	[M]
C8514	ECJ0EB1A104K	0.1 10V	[M]
C8515	ECJ0EB1A104K	0.1 10V	[M]
C8516	ECJ0EB1A104K	0.1 10V	[M]
C8521	ECJ0EB1A104K	0.1 10V	[M]
C8522	ECJ0EB1A104K	0.1 10V	[M]
C8523	ECJ0EF1C104Z	0.1 16V	[M]
C8524	ECJ0EF1C104Z	0.1 16V	[M]
C8525	ECJ0EB1C562K	5600P 16V	[M]
C8526	ECJ0EB1C183K	0.018 16V	[M]
C8527	ECJ0EB1A333K	0.033 10V	[M]
C8528	ECJ1VB0J105K	1 6.3V	[M]
C8529	ECJ1VB0J105K	1 6.3V	[M]
C8530	ECJ0EF1C104Z	0.1 16V	[M]
C8531	ECJ0EC1H101J	100P 50V	[M]
C8532	ECJ0EC1H221J	220P 50V	[M]
C8533	ECJ0EF1C104Z	0.1 16V	[M]
C8537	ECJ0EF1C104Z	0.1 16V	[M]
C8538	ECJ0EF1C104Z	0.1 16V	[M]
C8541	ECJ0EB1E472K	4700P 25V	[M]
C8550	F2G0J330A031	33 6.3V	[M]
C8551	ECJ0EF1C104Z	0.1 16V	[M]
C8552	F2G1C100A072	10 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C8553	F2G0J470A031	47 6.3V	[M]
C8554	ECJ1VB0J105K	1 6.3V	[M]
C8561	ECJ0EF1C104Z	0.1 16V	[M]
C8562	F2G1C100A072	10 16V	[M]
C8563	F2G0J470A031	47 6.3V	[M]
C8564	ECJ1VB0J105K	1 6.3V	[M]
C8571	ECJ3YB1A106M	10 10V	[M]
C8572	ECJ0EF1C104Z	0.1 16V	[M]
C8601	ECJ0EF1C104Z	0.1 16V	[M]
C8602	ECJ0EB1C153K	0.015 16V	[M]
C8606	ECJ0EF1C104Z	0.1 16V	[M]
C8611	ECJ0EF1C104Z	0.1 16V	[M]
C8621	ECJ0EC1H070D	7P 50V	[M]
C8622	ECJ0EC1H080D	8P 50V	[M]
C8651	ECJ0EF1C104Z	0.1 16V	[M]
C8652	ECJ0EF1C104Z	0.1 16V	[M]
C8691	ECJ0EF1C104Z	0.1 16V	[M]
C8695	ECJ0EF1C104Z	0.1 16V	[M]
C8701	ECJ0EB1A104K	0.1 10V	[M]
C8901	ECJ0EF1C104Z	0.1 16V	[M]
C9001	ECA1AM221B	220 10V	[M]
C9002	ECJ0EF1C104Z	0.1 16V	[M]
C9002	ECJ1VB1H102K	1000P 50V	[M]
C9003	ECJ0EF1C104Z	0.1 16V	[M]
C9004	ECJ0EC1H080D	8P 50V	[M]
C9005	ECJ0EC1H090D	9P 50V	[M]
C9006	ECJ0EB1A104K	0.1 10V	[M]
C9007	ECJ0EF1C104Z	0.1 16V	[M]
C9017	ECJ0EB1A104K	0.1 10V	[M]