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Service Manual

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ORDER NO.CHM0306017C0

Service Manual

DVD Player

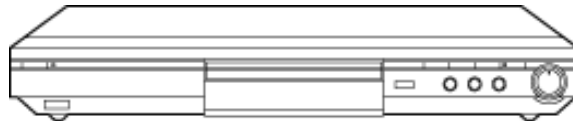
- DVD-S35EE
DVD-S35GN
DVD-S35PL
DVD-S35PLA
DVD-S35PX
 - DVD-S35GCS
DVD-S35GCU
DVD-S35GC
DVD-S35GCA
DVD-S35GD

DL1S Mechanism Series

Colour

(S).....Silver Type

(K).....Black Type (S35EE Only)



Specifications

Power supply:	AC120 V, 60 Hz (DVD-S35PLA only) AC220-240V, 50Hz (DVD-S35EE/GN only) AC110-240V, 50/60Hz (except DVD-S35PLA/EE/GN)
Power consumption:	14 W
Dimensions:	430 (W)×267 (D)×60 (H) mm [1615/ 16”(W) x 108/ 16”(D) x 27/ 16” (H)] (excluding protrusions)

Mass:	2.1 kg (4.7 lb.)
Signal system:	NTSC (DVD-S35PX only) PAL625/50, PAL525/60, NTSC (except DVD-S35PX)
Operating temperature range:	+5 to +35°C (+41 to 95°F)
Operating humidity range:	5 to 90% RH (no condensation)
Region number:	Region No.1 (DVD-S35PX only) Region No.2 (DVD-S35GC/GCA) Region No.3 (DVD-S35GCS/GCU/GD) Region No.4 (DVD-S35GN/PL/PLA) Region No.5 (DVD-S35EE only)

Discs played [8 cm (3") or 12 cm (5")]:

- (1) DVD-RAM (DVD-VR compatible)
- (2) DVD-Audio (except DVD-S35PX)
- (3) DVD-Video
- (4) DVD-R (DVD-Video compatible)
- (5) CD-Audio (CD-DA)
- (6) Video CD
- (7) SVCD (Conforming to IEC62107)
- (8) CD-R/CD-RW (CD-DA, Video CD formatted discs)
- (9) WMA/MP3
 - Maximum number of tracks and groups recognizable:
999 tracks and 99 groups
 - Compatible compression rate:
WMA: between 48 kbps and 192 kbps
MP3: between 32 kbps and 320 kbps
- (10) JPEG
 - Exif Ver 2.1 JPEG Baseline files
 - Maximum number of pictures and groups recognizable:
3000 pictures and 300 groups
 - Picture resolution:
between 320× 240 and 6144× 4096 pixels (sub sampling is 4:2:2 or 4:2:0)

Video output:

Output level:	1 V _{p-p} (75Ω)
Output terminal:	Pin jack
Number of terminal:	1 system

S video output:

Y output level:	1 V _{p-p} (75Ω)
C output level:	NTSC; 0.286 V _{p-p} (75Ω) PAL; 0.300V _{p-p} (75Ω) (except DVD-S35PX)
Output terminal:	S terminal
Number of terminal:	1 system

Component video output (480P/480I)

(DVD-S35PXonly)

(NTSC:480p/480I,PAL:576I)

(exceptDVD-S35PX)

Y output level:	1 V _{p-p} (75Ω)
PB output level:	0.7 V _{p-p} (75Ω)
PR output level:	0.7 V _{p-p} (75Ω)
Output terminal:	Pin jack (Y:green, PB :blue, PR :red)
Number of terminal:	1 system

Audio output:

Output level:	2 V _{rms} (1 kHz, 0 dB)
Output terminal:	Pin jack
Number of terminal:	2 channel:
	1 system

Audio performance:

- (1) Frequency response:
 - DVD (linear audio): 4 Hz-22 kHz (48 kHz sampling)
4 Hz-44 kHz (96 kHz sampling)
 - DVD-Audio:
(except DVD-S35PX) 4 Hz-88 kHz
(192 kHz sampling)
 - CD audio: 4 Hz-20 kHz
- (2) S/N ratio:
 - CD audio: 115 dB
- (3) Dynamic range:
 - DVD (linear audio): 100 dB
 - CD audio: 98 dB
- (4) Total harmonic distortion:
 - CD audio: 0.0025%

Digital audio output:

Optical digital output:	Optical terminal
-------------------------	------------------

Pickup

Wave length:	658 nm/790 nm
Laser power:	CLASS Ua/ CLASS I (DVD-S35PX only) CLASS 2/ CLASS 1 (except DVD-S35PX)

Power consumption in standby mode:

approx. 2W

Solder:

This model uses lead free solder (PbF).

Note:

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

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

Windows Media, and the Windows logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries.
WMA is a compression format developed by Microsoft Corporation. It achieves the same sound quality as MP3 with a file size that is smaller than that of MP3.



■ **Built-in decoders**

You can play discs with these symbols.



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 **WARNING**

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

Panasonic

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1 SAFETY PRECAUTIONS

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[1.1 GENERAL GUIDELINES](#)

[1.1.1 LEAKAGE CURRENT COLD CHECK](#)

[1.1.2 LEAKAGE CURRENT HOT CHECK \(See Figure 1 .\)](#)

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1.1 GENERAL GUIDELINES

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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](#)

[1.1.2 LEAKAGE CURRENT HOT CHECK \(See Figure 1 .\)](#)

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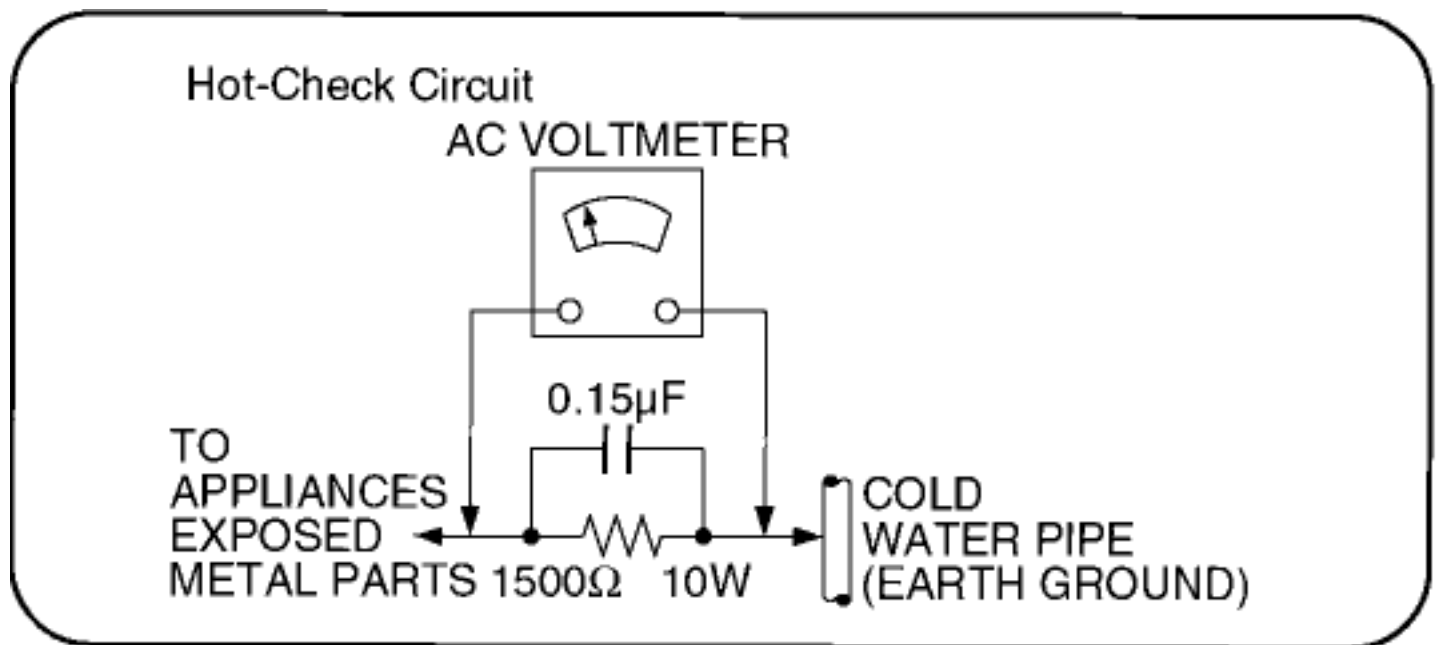
1.1.1 LEAKAGE CURRENT COLD CHECK

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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 $1\text{M}\Omega$ and $5.2\text{M}\Omega$.
When the exposed metal does not have a return path to the chassis, the reading must be

∞.

Figure 1



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1.1.2 LEAKAGE CURRENT HOT CHECK (See [Figure 1](#) .)

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

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2 PREVENTION OF ELECTRO STATIC DISCHARGE (ESD) TO ELECTROSTATICALLY SENSITIVE (ES) DEVICES

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

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

Caution

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

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

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3 Precaution of Laser Diode

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CAUTION:

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

Wave length: 658 nm/790 nm

Maximum output radiation power from pickup: 100 μ

W/VDE

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

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

ACHTUNG:

Dieses Produkt enthält eine Laserdiode.

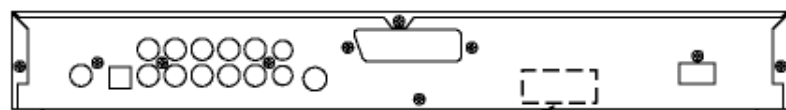
Im eingeschalteten Zustand wird unsichtbare Laserstrahlung von der Lasereinheit abgestrahlt.

Wellenlänge: 658 nm/790 nm

Maximale Strahlungsleistung der Lasereinheit: 100 μ W/VDE

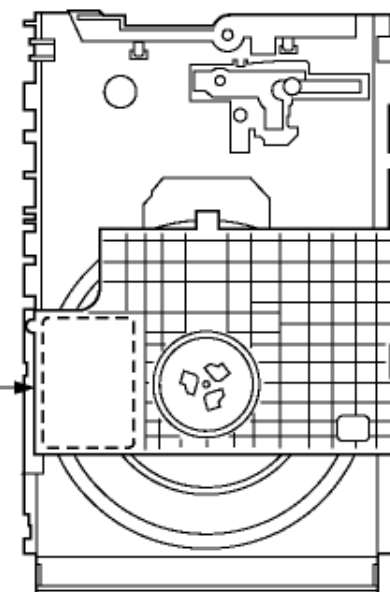
Die Strahlung der Lasereinheit ungefährlich, wenn folgende Punkte beachtet werden:

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



**CLASS1
LASER PRODUCT**

CAUTION	- LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM.	FDA 21 CFR / Class II
CAUTION	- VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.	IEC60825-1 / Class 2b
ATTENTION	- RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU.	
ADVARSEL	- SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNNGÅ UDSÆTTELSE FOR STRÅLING.	
VARO!	- AVATTAESSA OLET ALTIINA NÄKYVÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.	
VARNING	- SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRakta EJ STRÅLEN.	
ADVARSEL	- SYNLIG OG USYNLIG LASERSTRÅLING NÄR DEKSEL ÅPNEES. UNNGÅ EKSPONERING FOR STRÅLEN.	
VORSICHT	- SICHTBARE UND UNSICHTBARE LASERSTRÄHLUNG, WENN ABDECKUNG GEOFFNET. NICHT DEM STRAHL AUSSETZEN.	
注意	- 打开时有可见及不可见激光辐射。避免激光束照射。	
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。	RQLCA0141



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.

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4 About lead free solder (PbF)

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Caution:

- Pb free solder has a higher melting point than standard solder; Typically thmelting point is 50 - 70°F (30 - 40°C) higher. Please use a high temperature soldering iron. In case of the soldering iron with temperature control,pleaseset it to $700 \pm 20^\circ\text{F}$ ($370 \pm 10^\circ\text{C}$).
- Pb free solder will tend to splash when heated too high (about 1100°F/ 600°C).

When soldering or unsoldering, please completely remove all of the solder on the pins or solder area, and be sure to heat the soldering points with the Pb free solder until it melts enough.

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5 General Description

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[5.1 Operating instructions](#)

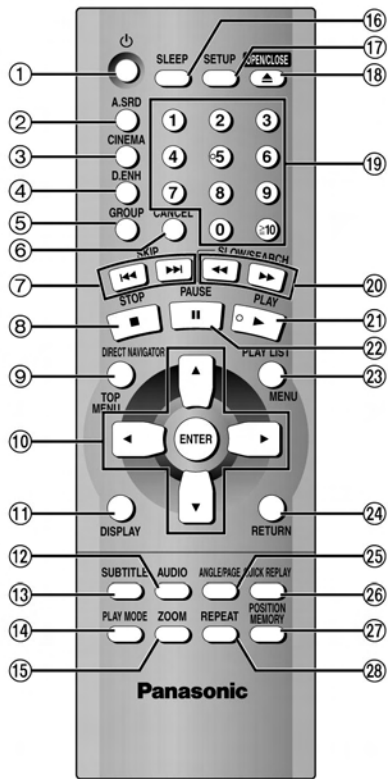
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5.1 Operating instructions

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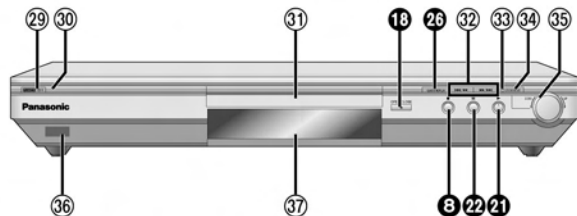
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- ① Standby/on button (⏻)
 - ② Advanced Surround button (A.SRD)
 - ③ Cinema button (CINEMA)
 - ④ Dialogue Enhancer button (D.ENH)
 - ⑤ Group button (GROUP)
 - ⑥ Cancel button (CANCEL)
 - ⑦ Skip buttons (⏮, ⏭ SKIP)
 - ⑧ Stop button (■ STOP)
 - ⑨ Top menu, Direct navigator button (TOP MENU, DIRECT NAVIGATOR)
 - ⑩ Cursor buttons (▲, ▼, ◀, ▶), Enter button (ENTER)
 - ⑪ Display button (DISPLAY)
 - ⑫ Audio button (AUDIO)
 - ⑬ Subtitle button (SUBTITLE)
 - ⑭ Play mode button (PLAY MODE)
 - ⑮ Zoom button (ZOOM)
 - ⑯ Sleep button (SLEEP)
 - ⑰ Setup button (SETUP)
 - ⑱ Open/Close button (▲ OPEN/CLOSE)
 - ⑲ Numbered buttons (1-9, 0, ≥10)
 - ⑳ Slow/Search buttons (⏮, ⏭ SLOW/SEARCH)
 - ㉑ Play button (▶ PLAY)
 - ㉒ Pause button (⏸ PAUSE)
 - ㉓ Menu, Play list button (MENU, PLAY LIST)
 - ㉔ Return button (RETURN)
 - ㉕ Angle/page button (ANGLE/PAGE)
 - ㉖ Quick replay button (QUICK REPLAY)
 - ㉗ Position memory button (POSITION MEMORY)
 - ㉘ Repeat button (REPEAT)
 - ㉙ Standby/on switch (⏻/⏻)
- Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.

⑳ **Units sold outside the U.S.A. and Canada**

- ㉚ Standby indicator (⏻)
- When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.
- ㉛ Disc tray
- ㉜ Skip/Slow/Search buttons (⏮/◀, ▶/⏭)
- ㉝ Zoom indicator
- ㉞ Zoom mode button (ZOOM MODE)
- ㉟ Zoom dial (DOWN, UP)
- ㊱ Remote control signal sensor
- ㊲ Display



- Controls such as ⑧ function the same as those on the remote control.
- The actual marking of the standby/on switch depends on the area. Illustrations in these operating instructions use the markings shown in the above illustration.

6 PREVENTION OF STATIC ELECTRICITY DISCHARGE

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The laser diode in the traverse unit (optical pickup) may brake down due to static electricity of clothes or human body. Use due caution to electrostatic breakdown when servicing and handling the laser diode.

[6.1 Grounding for electrostatic breakdown prevention](#)

[6.1.1 Worktable grounding](#)

[6.1.2 Human body grounding](#)

[6.1.3 Handling of optical pickup](#)

[6.2 Handling Precautions for Traverse Unit \(Optical Pickup\)](#)

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6.1 Grounding for electrostatic breakdown prevention

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Some devices such as the DVD player use the optical pickup (laser diode) and the optical pickup will be damaged by static electricity in the working environment. Proceed servicing works under the working environment where grounding works is completed.

[6.1.1 Worktable grounding](#)

[6.1.2 Human body grounding](#)

[6.1.3 Handling of optical pickup](#)

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6.1.1 Worktable grounding

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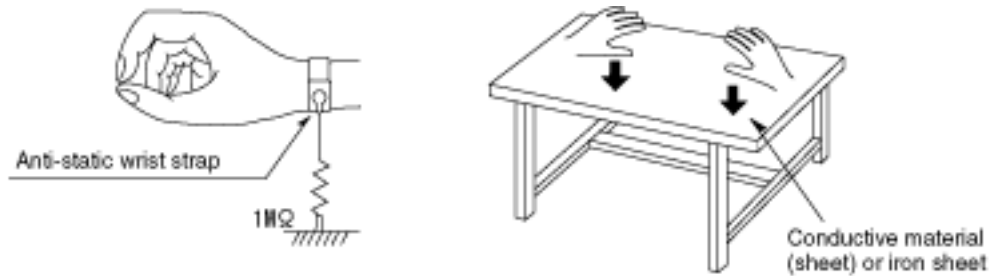
1. Put a conductive material (sheet) or iron sheet on the area where the optical pickup is placed, and ground the sheet.

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6.1.2 Human body grounding

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



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6.1.3 Handling of optical pickup

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1. To keep the good quality of the optical pickup maintenance parts during transportation and before installation, the both ends of the laser diode are short-circuited. After replacing the parts with new ones, remove the short circuit according to the correct procedure. (See this Technical Guide.)
2. Do not use a tester to check the laser diode for the optical pickup. Failure to do so will damage the laser diode due to the power supply in the tester.

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6.2 Handling Precautions for Traverse Unit (Optical Pickup)

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1. Do not give a considerable shock to the traverse unit (optical pickup) as it has an extremely high-precise structure.
2. When replacing the optical pickup, install the flexible cable and cut its short land with a nipper. See the optical pickup replacement procedure in this Technical Guide. Before replacing the traverse unit, remove the short pin for preventing static electricity and install a new unit. Connect the connector as short times as possible.
3. The flexible cable may be cut off if an excessive force is applied to it. Use caution when handling the cable.
4. The half-fixed resistor for laser power adjustment cannot be adjusted. Do not turn the resistor.

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7 Disassembling the Casing and Checking P.C.B.s

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[7.1 Dissassembly Procedure](#)

[7.2 Casing Parts and P.C.B. Positions](#)

[7.3 Top Panel](#)

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[7.6 Power supply P.C.B.](#)

[7.7 Main P.C.B. and Mechanism Unit](#)

[7.8 Motor P.C.B.](#)

[7.9 Operation \(L\) P.C.B. and Operation \(R\) P.C.B.](#)

[7.10 Service Position](#)

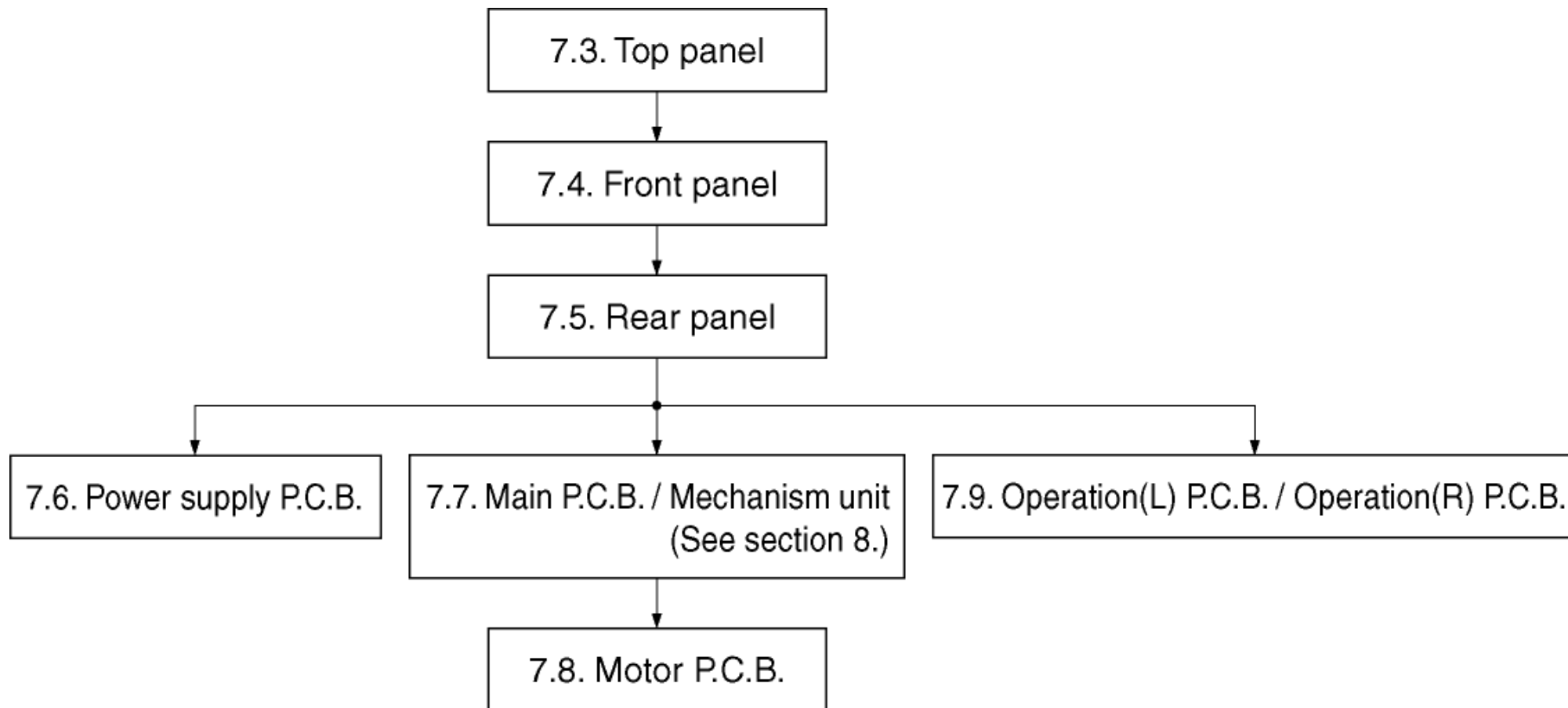
[7.10.1 Servicing position of the Main P.C.B. and the Operation P.C.B.](#)

[7.10.2 List of the Extension Cables](#)

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7.1 Dissassembly Procedure

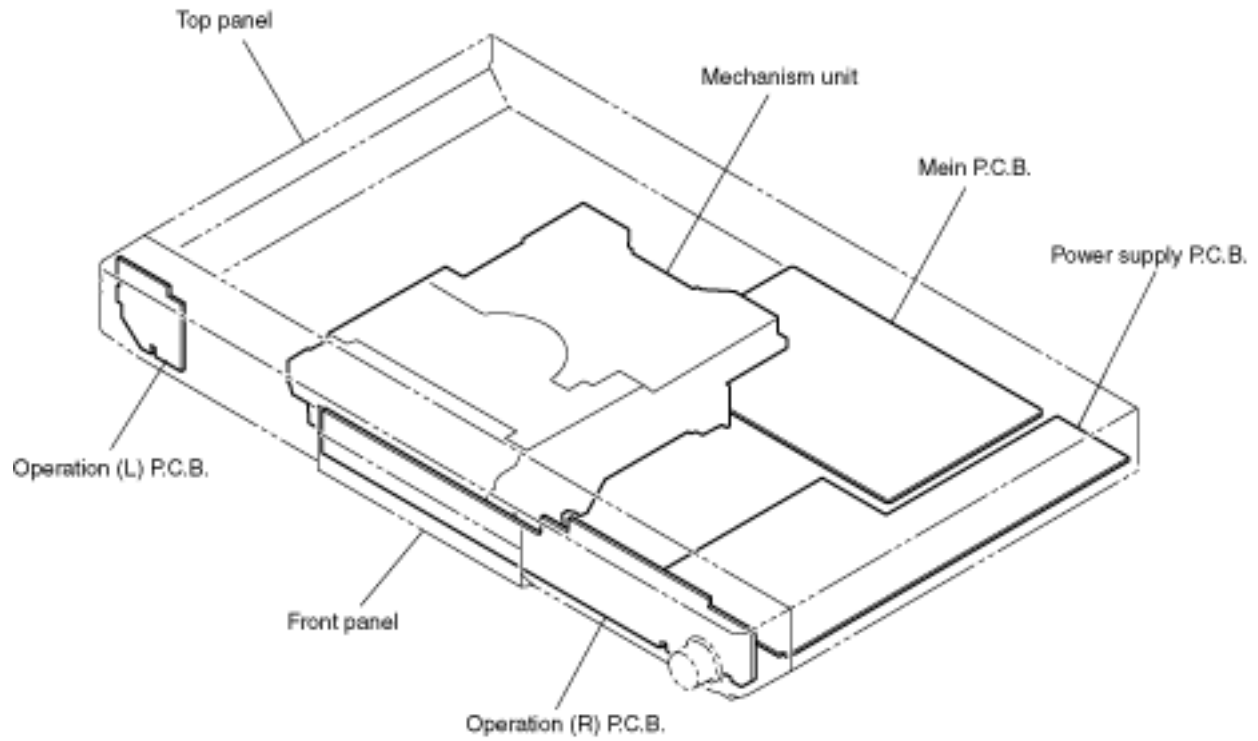
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7.2 Casing Parts and P.C.B. Positions

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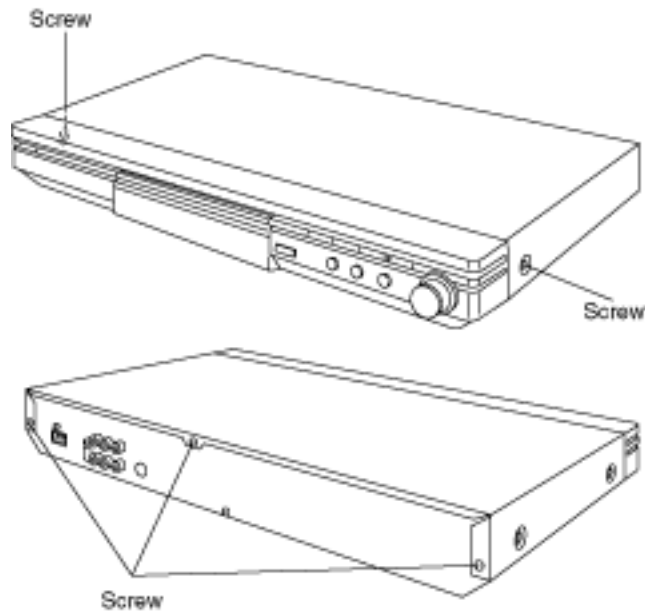


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7.3 Top Panel

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1. Unscrew the screws.

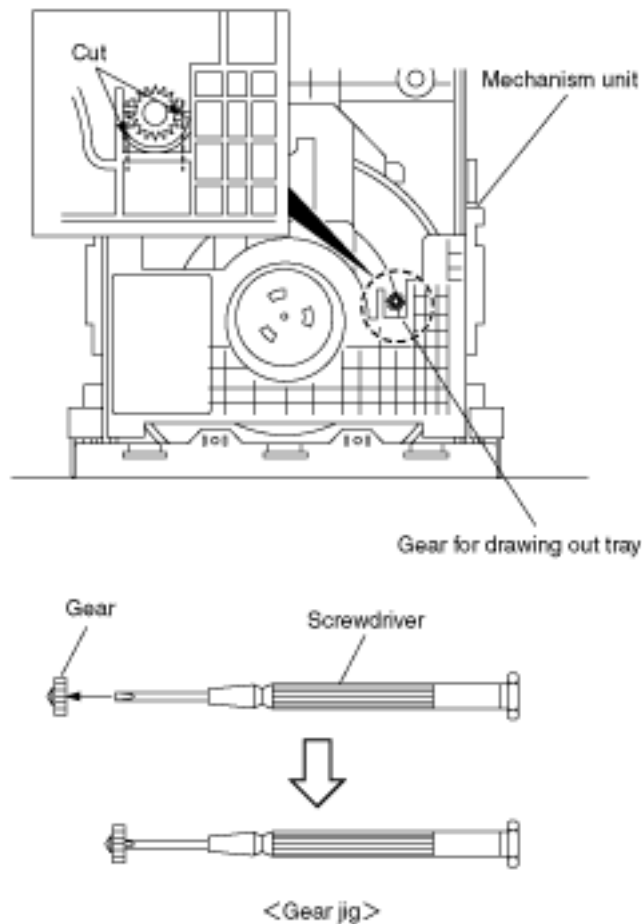


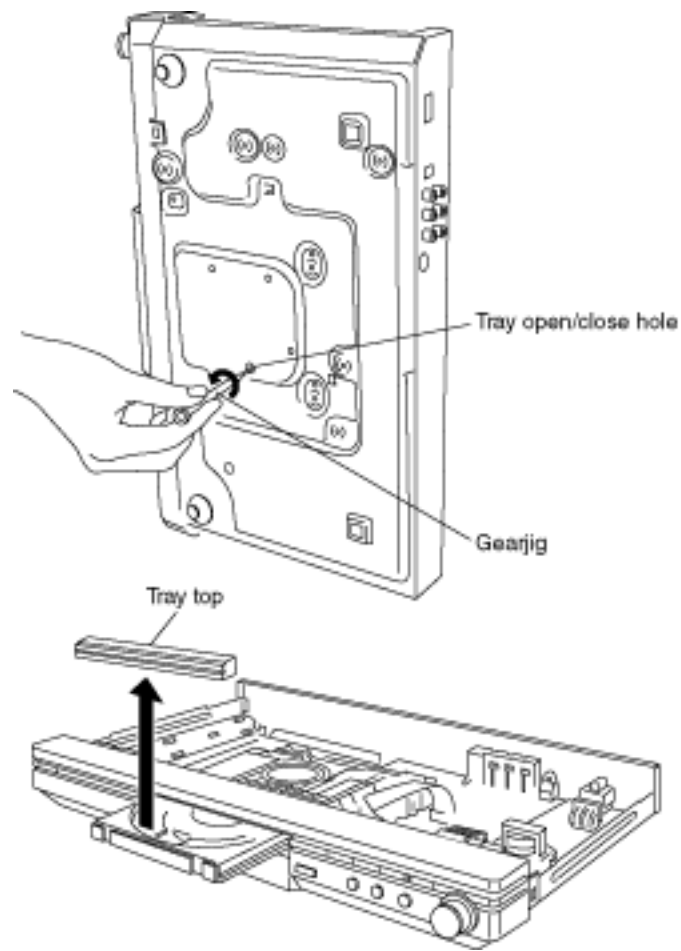
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7.4 Front Panel

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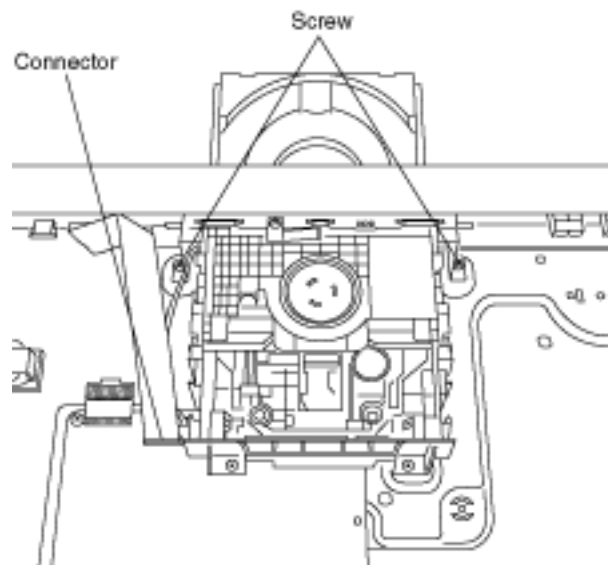
1. Pull the tray out of the mechanism unit. Remove the gear and install it onto a screwdriver to make a gear jig.
2. Insert the gear jig into the tray open/ close hole.
3. Turn the gear jig counterclockwise to open the tray.
4. Remove the tray top from the tray section.





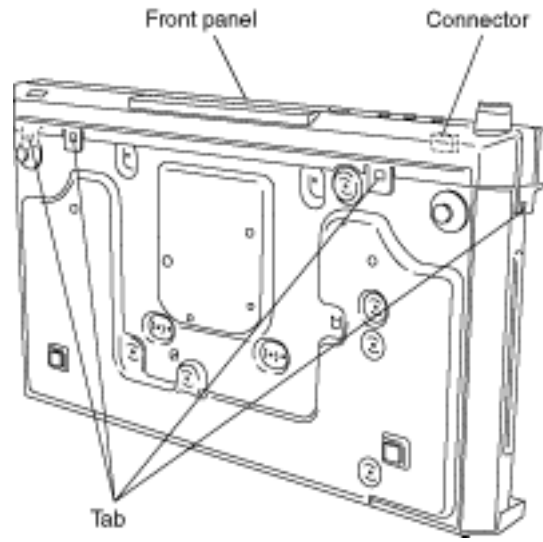
5. Unscrew the screws.

6. Remove the connector.



7. Release the tabs.

8. Remove the connector.

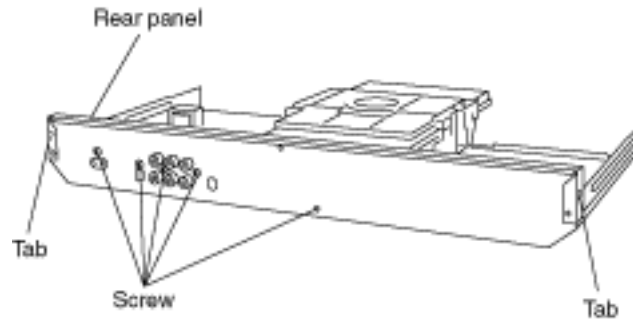


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7.5 Rear panel

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1. Unscrew the screws.
2. Release the tabs.

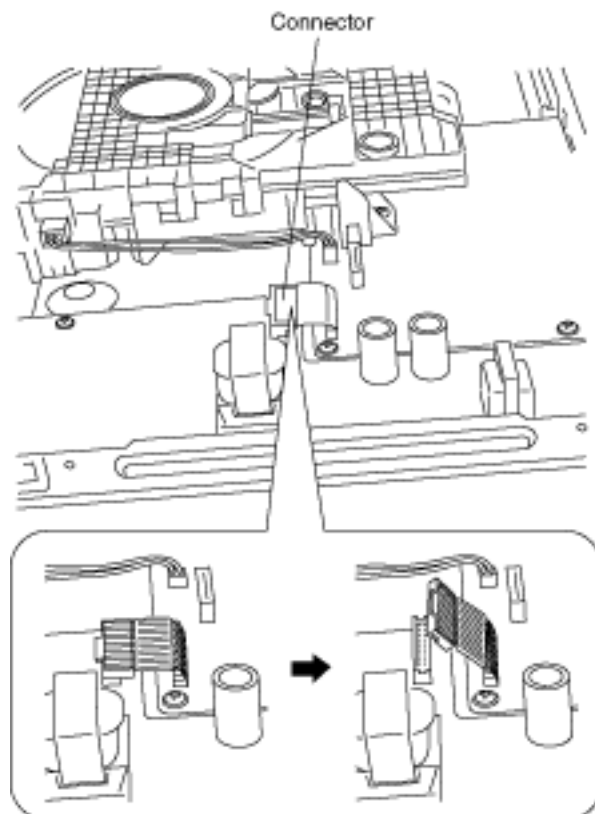
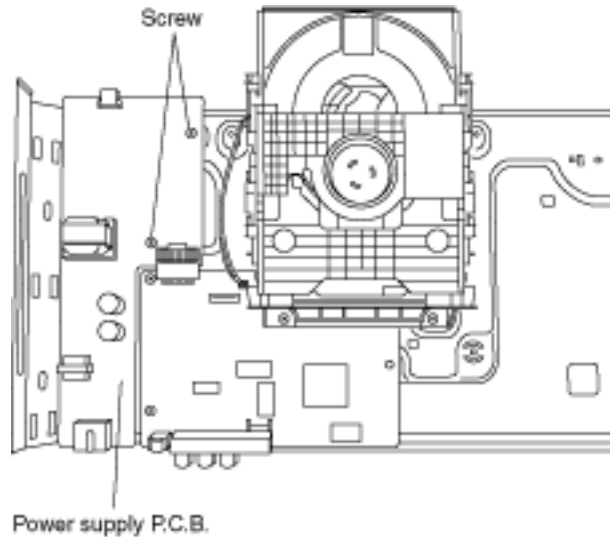


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7.6 Power supply P.C.B.

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1. Unscrew the screws.
2. Remove the connector.

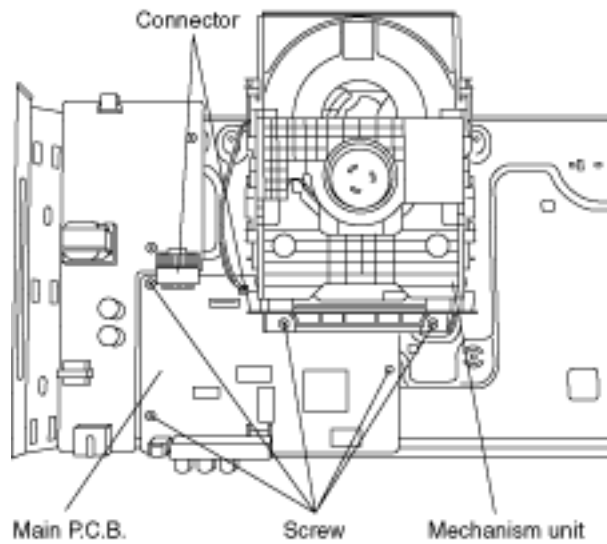


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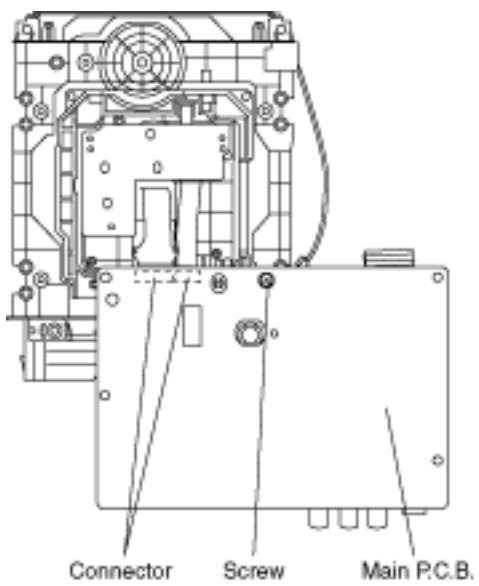
7.7 Main P.C.B. and Mechanism Unit

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1. Unscrew the screws.
2. Remove the connectors.
3. Pull out the Main P.C.B. and mechanism unit vertically.



4. Unscrew the screw.
5. Remove the connectors.

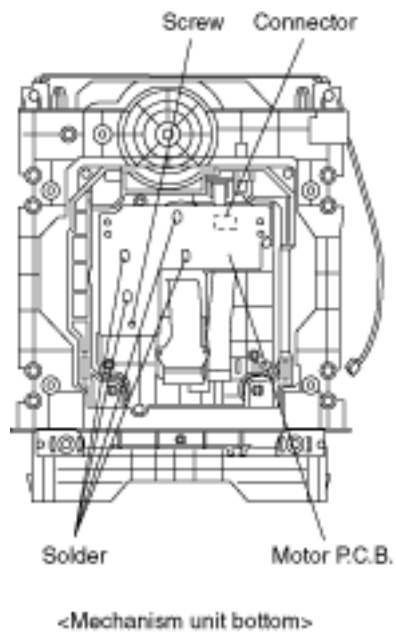


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7.8 Motor P.C.B.

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1. Unscrew the screw.
2. Remove the solders.
3. Remove the connector.

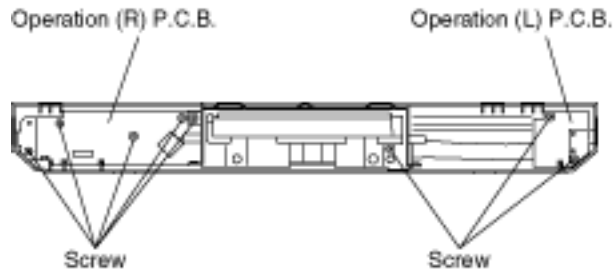


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7.9 Operation (L) P.C.B. and Operation (R) P.C.B.

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1. Unscrew the screws.



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7.10 Service Position

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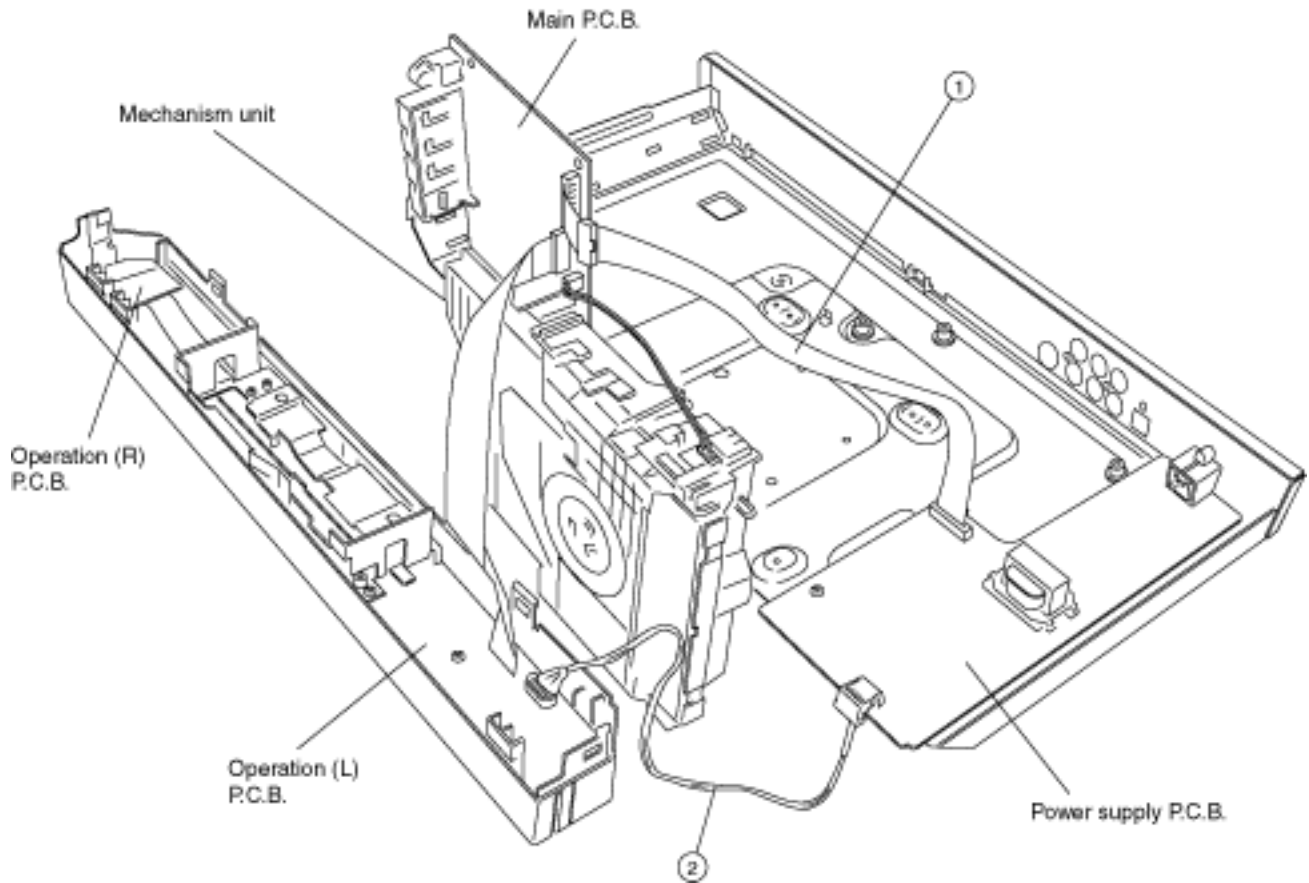
[7.10.1 Servicing position of the Main P.C.B. and the Operation P.C.B.](#)

[7.10.2 List of the Extension Cables](#)

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7.10.1 Servicing position of the Main P.C.B. and the Operation P.C.B.

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7.10.2 List of the Extension Cables

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①	RFKZ0152	12pins	PS6251(Main P.C.B.)—PP1101(Power supply P.C.B.)
②	VFK1732	6pins	PS1102(Power supply P.C.B.)—PP6001(Operation (R) P.C.B.)

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8 ASSEMBLING AND DISASSEMBLING THE MECHANISM UNIT

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[8.1 Disassembly Procedure](#)

[8.2 Motor P.C.B.](#)

[8.3 Clamp Plate Unit](#)

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[8.5 Traverse Block](#)

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[8.7 Optical Pickup Unit](#)

[8.7.1 Precautions in optical pickup replacement](#)

[8.7.2 Disassembling the Optical Pickup Unit](#)

[8.7.3 Cautions to Be Taken When Replacing the Optical Pickup](#)

[8.8 Disassembling the Middle Chassis](#)

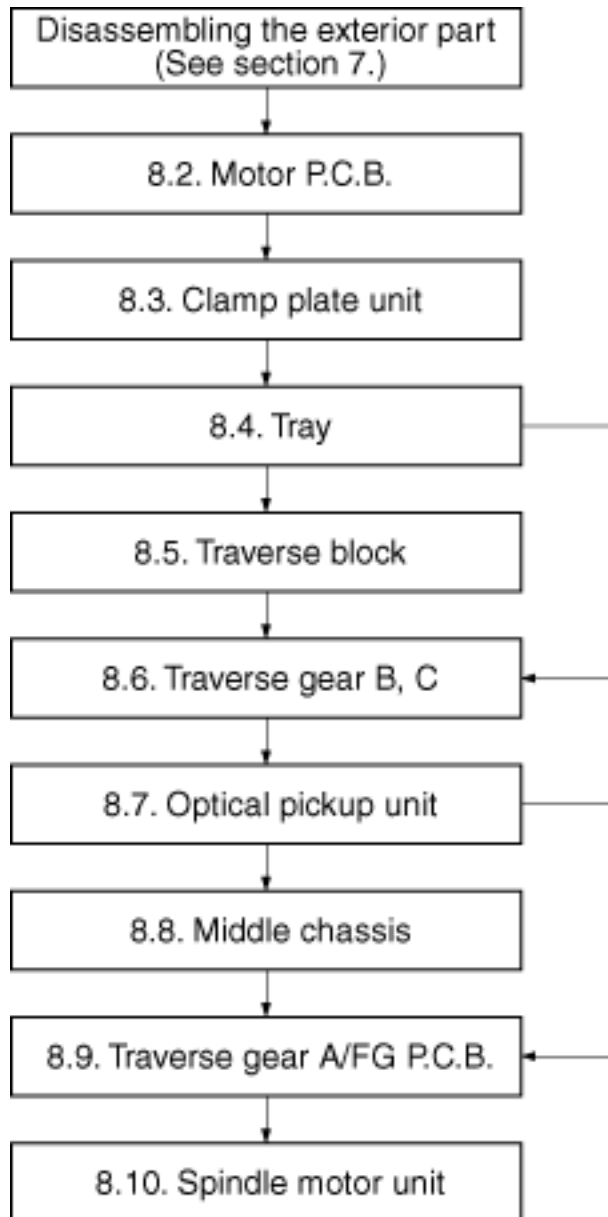
[8.9 Disassembling the Traverse Gear A/ FG P.C.B.](#)

[8.10 Disassembling the Spindle Motor Unit](#)

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8.1 Disassembly Procedure

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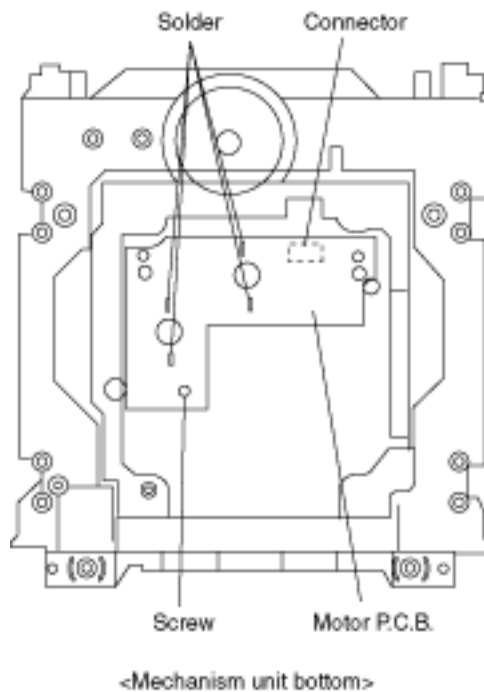


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8.2 Motor P.C.B.

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1. Unscrew the screw.
2. Remove the solders.
3. Remove the connector.

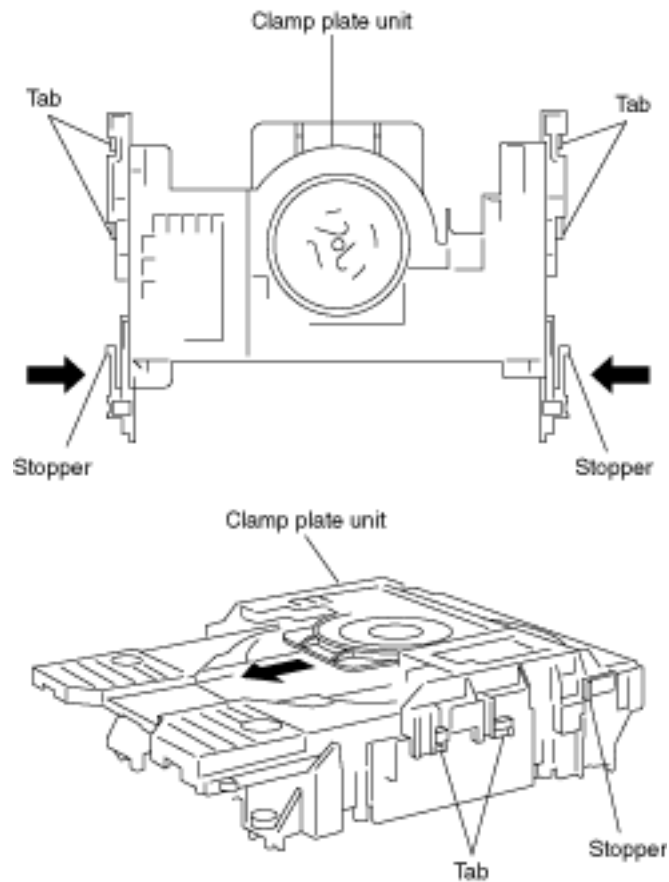


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8.3 Clamp Plate Unit

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1. Spread the stopper with hand to slide the tabs and remove the clamp plate unit.

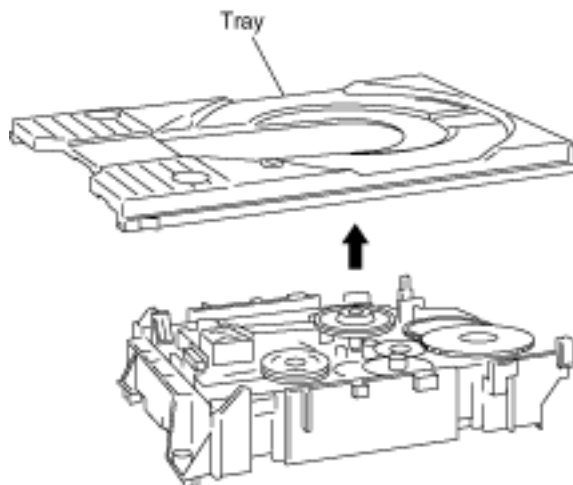


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8.4 Tray

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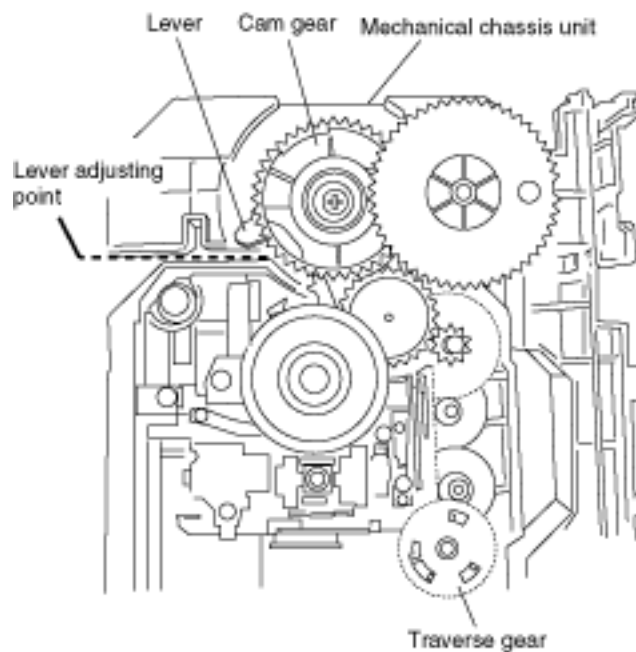
1. Lift the tray.



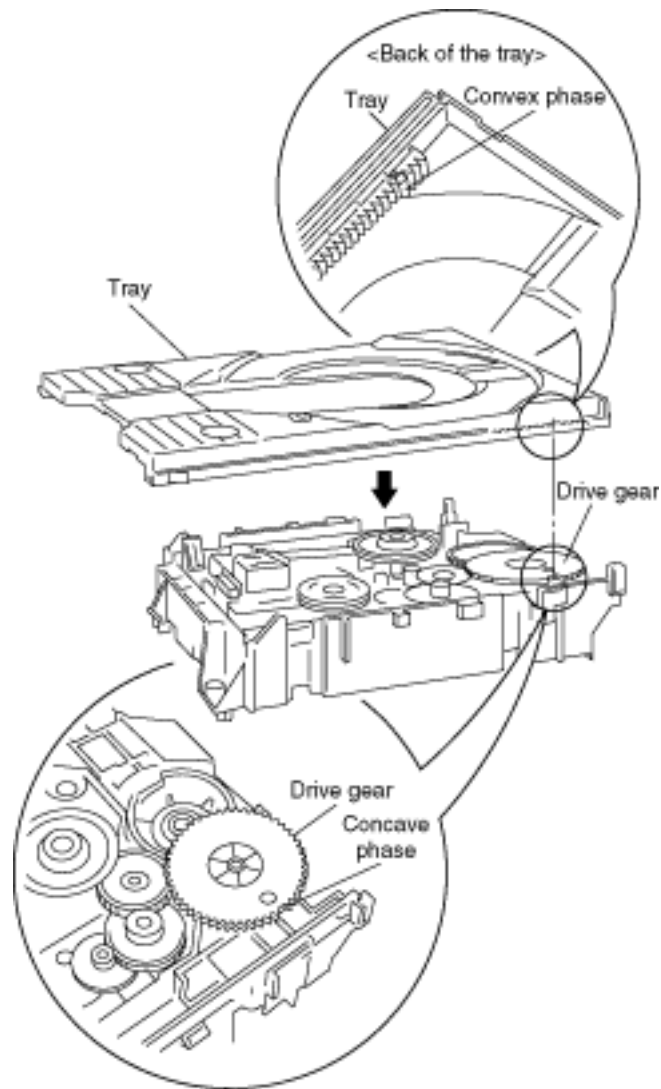
<Precautions in reassembling the tray>

- Reassemble the tray so that it is in the backmost position.

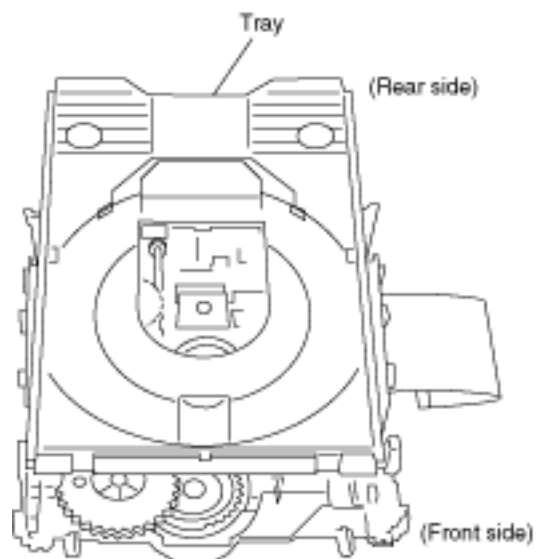
1. Turn traverse gear until cam gear lever comes to the lever adjusting position at the end of mechanical chassis unit.



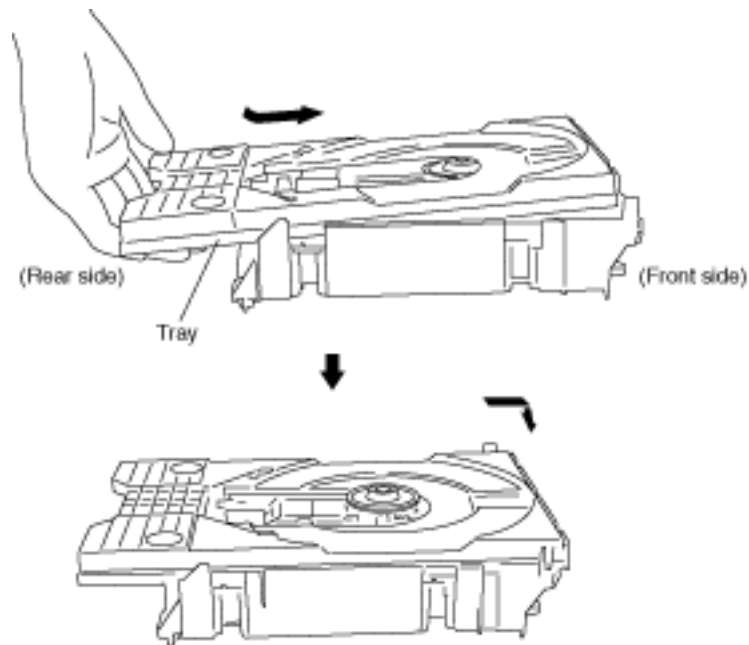
2. Check the position of convex phase on back of the tray, and that of concave phase on drive gear.



A. Place the tray on the unit from rearward.

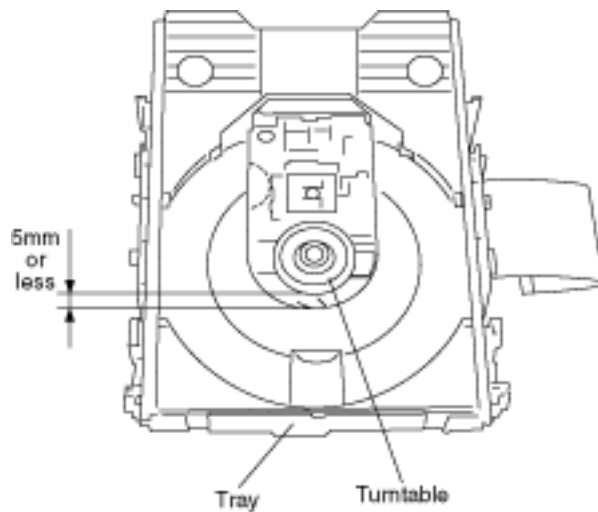


B. Inch the tray forward until convex phase and concave phase mate.



Caution:

Make sure to mate convex phase and concave phase properly, so that the gap between turntable and tray becomes 5mm or less.

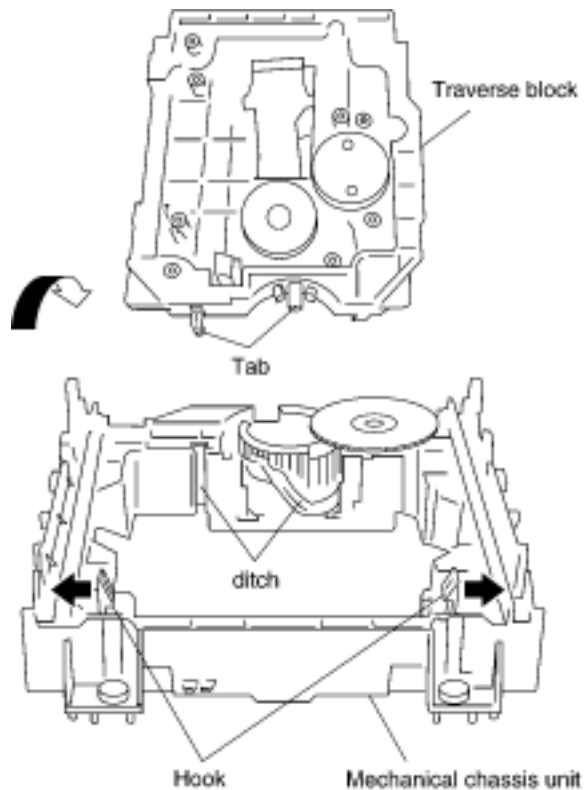


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8.5 Traverse Block

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1. Lift the traverse block while spreading the hook of the mechanical chassis unit.
2. Disengage the tabs from the holes of the mechanical chassis unit.

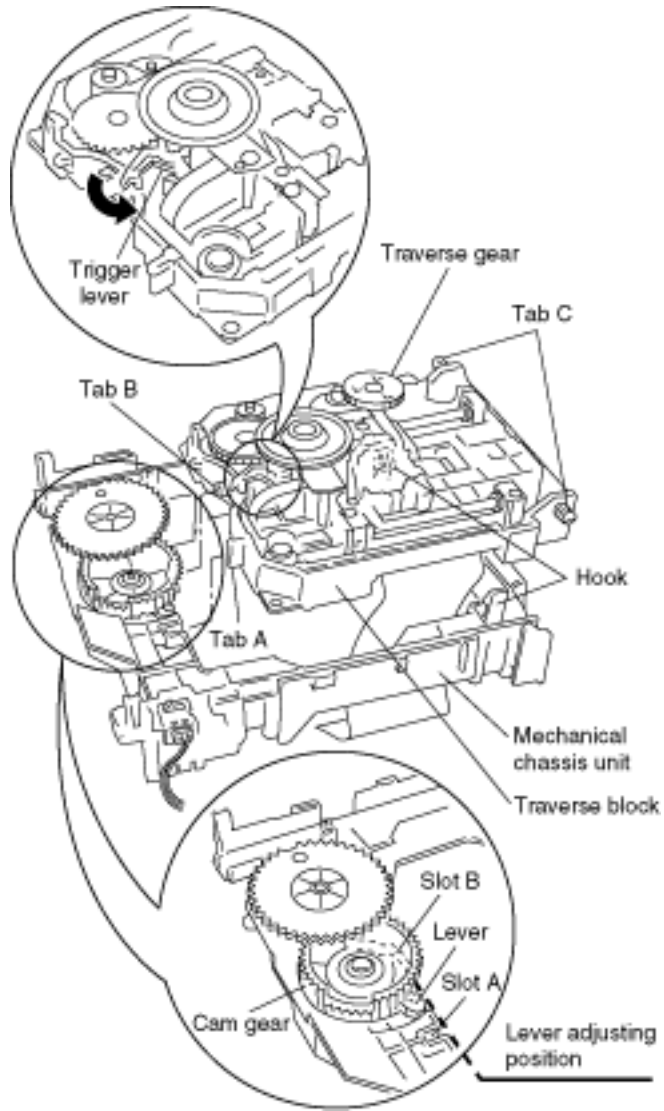


<Precautions in reassembling the traverse block>

•Take the following precautions when reassembling the traverse block.

1. Turn traverse gear on the traverse block to let trigger lever turn rightward. (Front view)
2. Bring cam gear lever to the lever adjusting position at the end of mechanical chassis unit.
3. Put tabs A and B into slots A and B respectively.

Place tabs C into hooks to mount the traverse block on mechanical chassis unit. (Slot A... Mechanical chassis unit, Slot B... Cam gear)

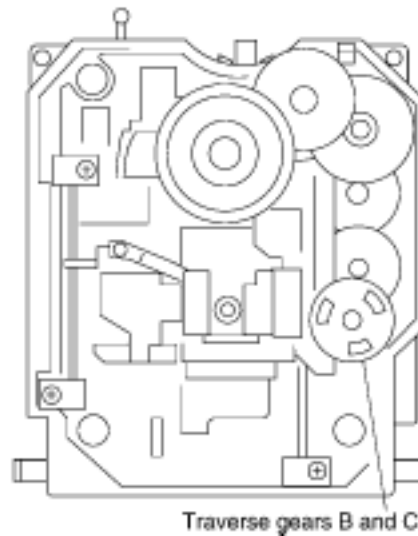
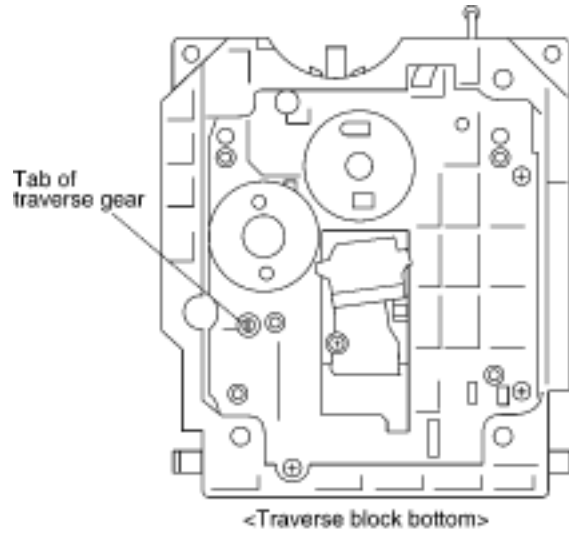


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8.6 Traverse Gear

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1. Disengage the tabs from the traverse gear.
2. Remove the traverse gears B and C.

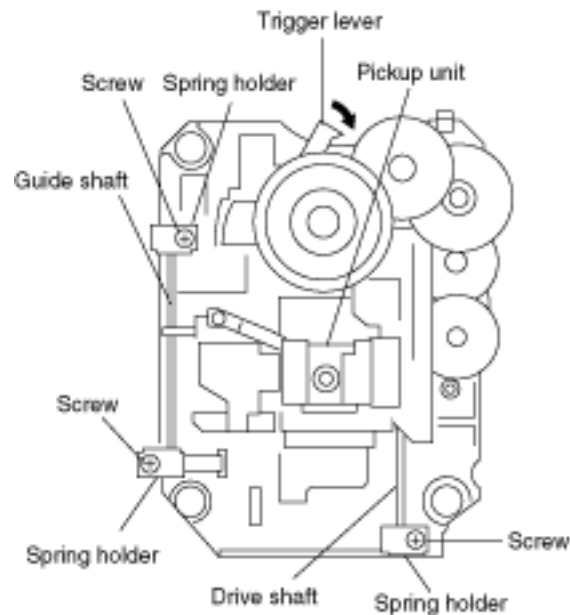


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8.7 Optical Pickup Unit

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1. Make the right turn the trigger lever.
2. Unscrew the screws.
3. Remove the spring holders and the springs.
4. Pull out the drive shaft and guide shaft.



[8.7.1 Precautions in optical pickup replacement](#)

[8.7.2 Disassembling the Optical Pickup Unit](#)

[8.7.3 Cautions to Be Taken When Replacing the Optical Pickup](#)

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8.7.1 Precautions in optical pickup replacement

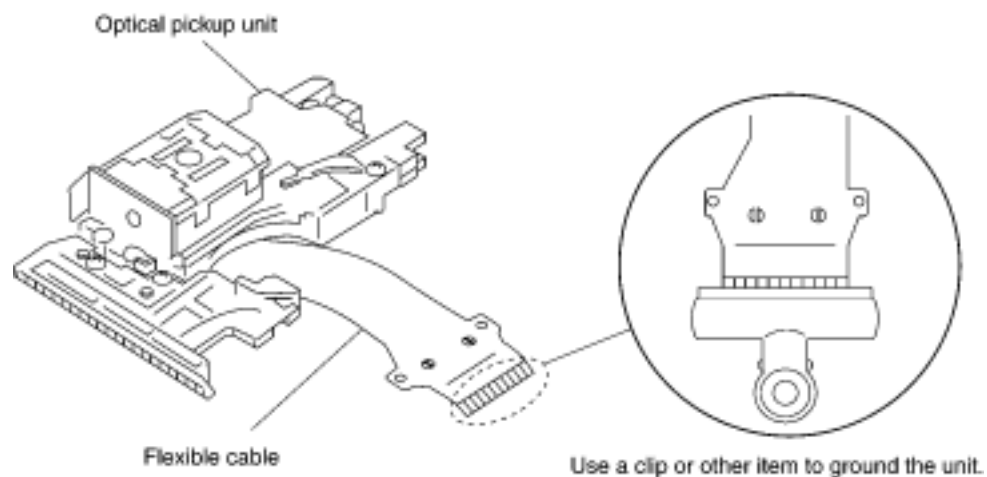
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The optical pickup can be damaged by static electricity from your body. Be sure to take static electricity countermeasures when working around the optical pickup. (Refer to the related page in this Manual about the countermeasures.)

1. Do not touch laser diode, actuator and their peripheries.
2. Do not use tester to check laser diode. (Laser diode can be damaged easily.)
3. The use of soldering iron with anti-static feature is recommended when providing short-circuit to laser diode or when removing it.
4. Solder the land on flexible cable of optical pickup unit.

Caution

- When using the soldering iron without anti-static feature, short-circuit the flexible cable terminal with a clip before short-circuiting the land.
- After intended repair is finished, remove the solder for short-circuit of laser diode in a correct way following the procedures described in this Manual.



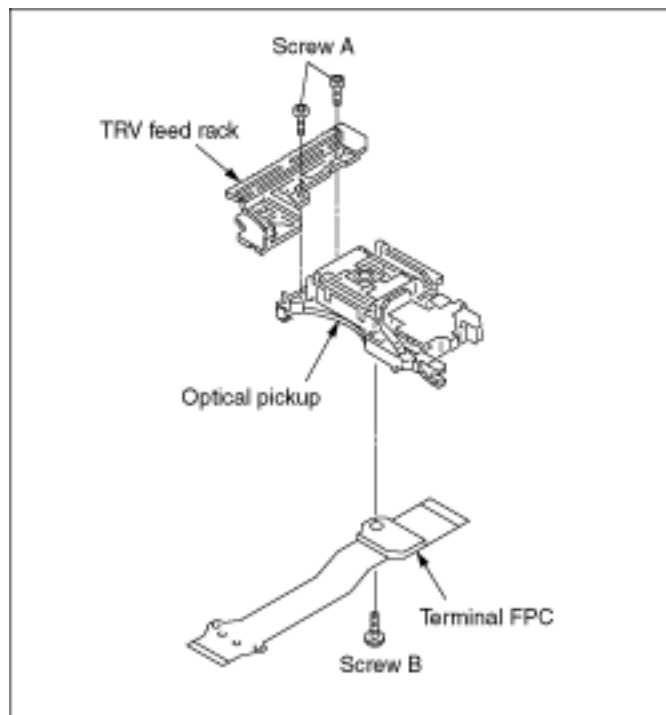
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8.7.2 Disassembling the Optical Pickup Unit

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1. Remove the 2 screws A and remove the TRV feed rack.
2. Remove the screw B and remove the Terminal FPC.
3. Remove the optical pickup.

Fig. 1



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8.7.3 Cautions to Be Taken When Replacing the Optical Pickup

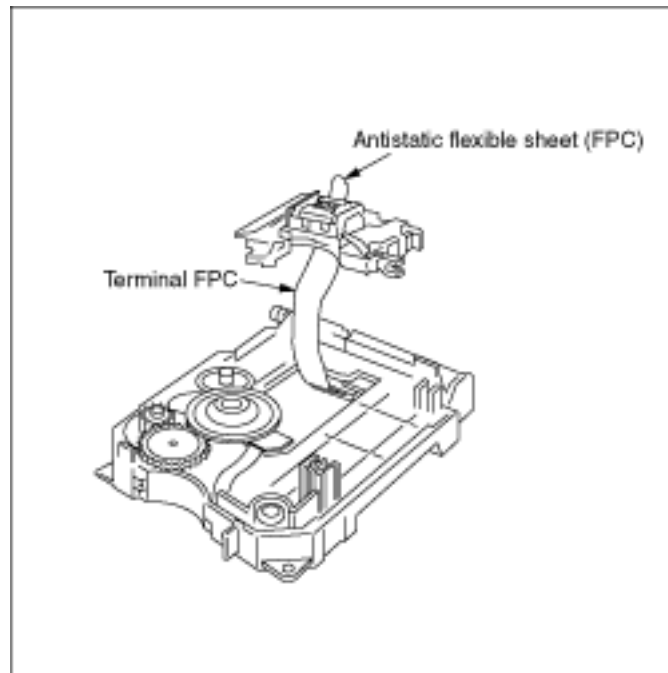
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- An antistatic flexible sheet (FPC) is connected with the new optical pickup.

Replace the optical pickup according to the following procedure.

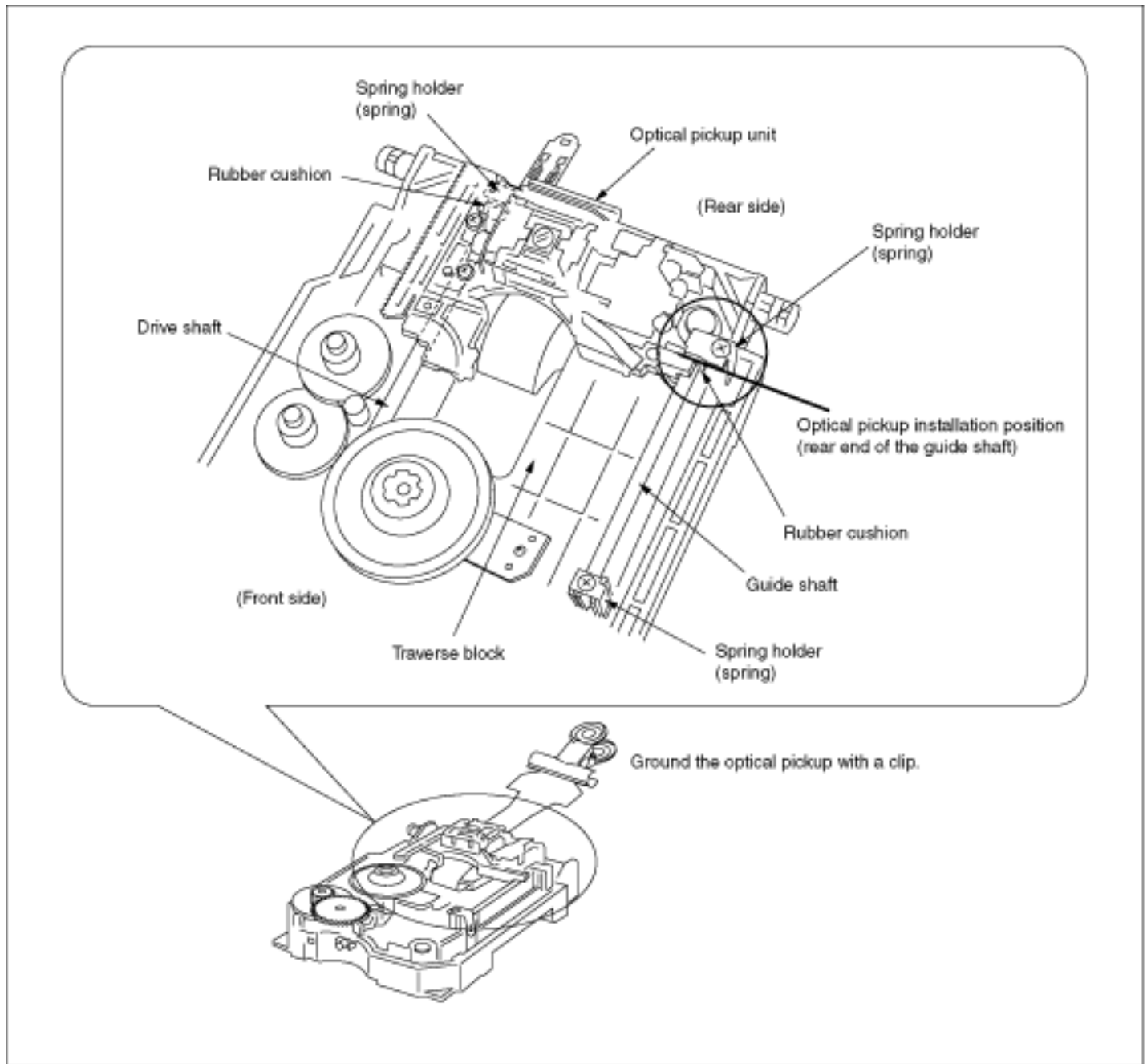
1. Install the Terminal FPC, TRV feed rack on the optical pickup. (See [Fig. 1](#))

Fig. 2



2. Install the optical pickup unit, spring, drive shaft, guide shaft, rubber cushion, and spring holder on the traverse block.

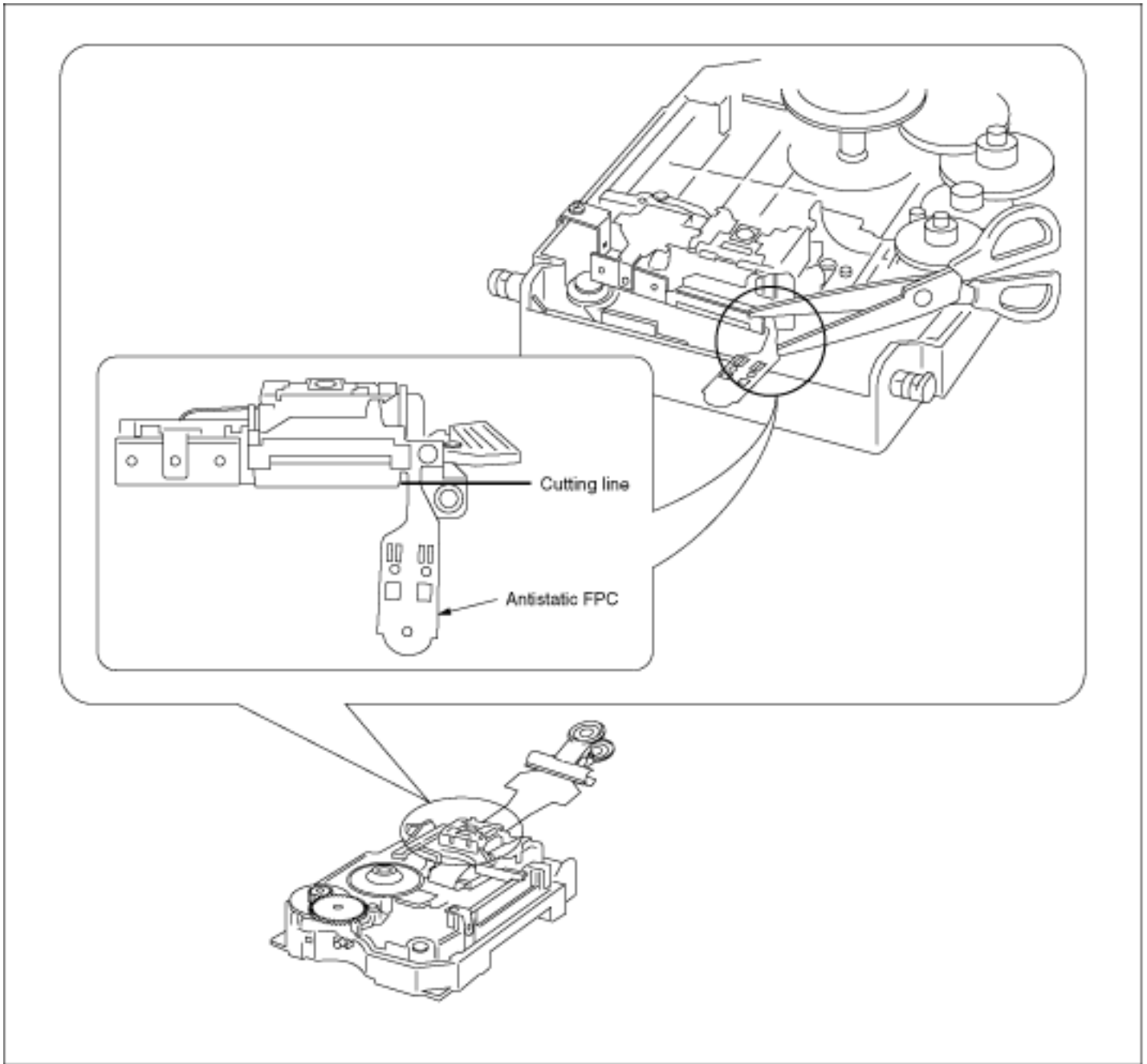
Fig. 3



Cautions to be taken when assembling the unit: Install the pickup unit so that it is located at the rear end of the guide shaft.

3. Cut the antistatic flexible sheet for the optical pickup unit.

Fig. 4

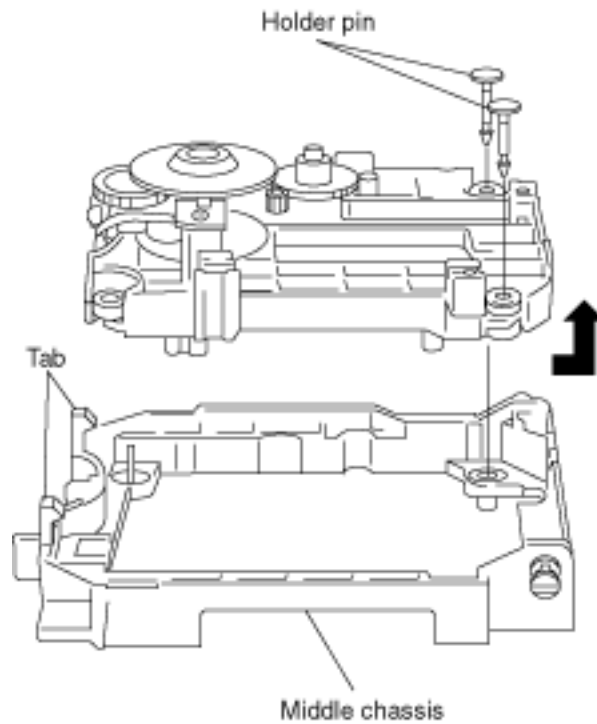


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8.8 Disassembling the Middle Chassis

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1. Remove the holder pins.
2. Remove the tabs.
3. It lifts while pulling it in the direction of the arrow.

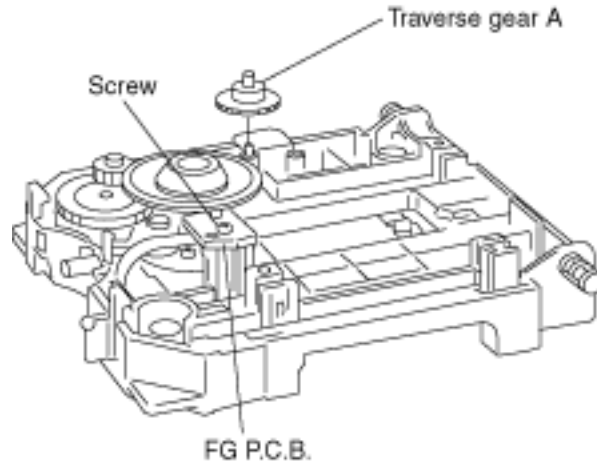


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8.9 Disassembling the Traverse Gear A/ FG P.C.B.

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1. Unscrew the screw.
2. Remove the traverse gear A.

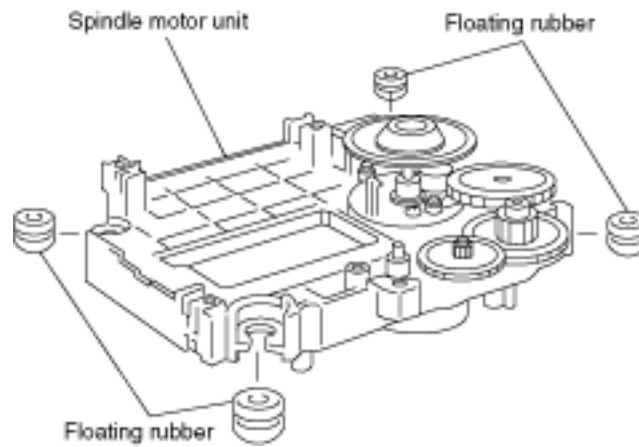


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8.10 Disassembling the Spindle Motor Unit

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1. Remove the floating rubbers.



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9 Self-Diagnosis Function and Service Modes

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[9.1 Optical Pickup Breakdown Diagnosis](#)

[9.2 Service Mode Table 1](#)

[9.3 DVD Self Diagnostic Function-Error Code](#)

[9.4 Last Error Code saved during NO PLAY](#)

[9.5 Service mode table 2](#)

[9.6 Sales demonstration lock function](#)

[9.6.1 Setting](#)

[9.6.2 Cancellation](#)

[9.7 Handling After Completing Repairs](#)

[9.7.1 Method](#)

[9.7.2 Precautions](#)

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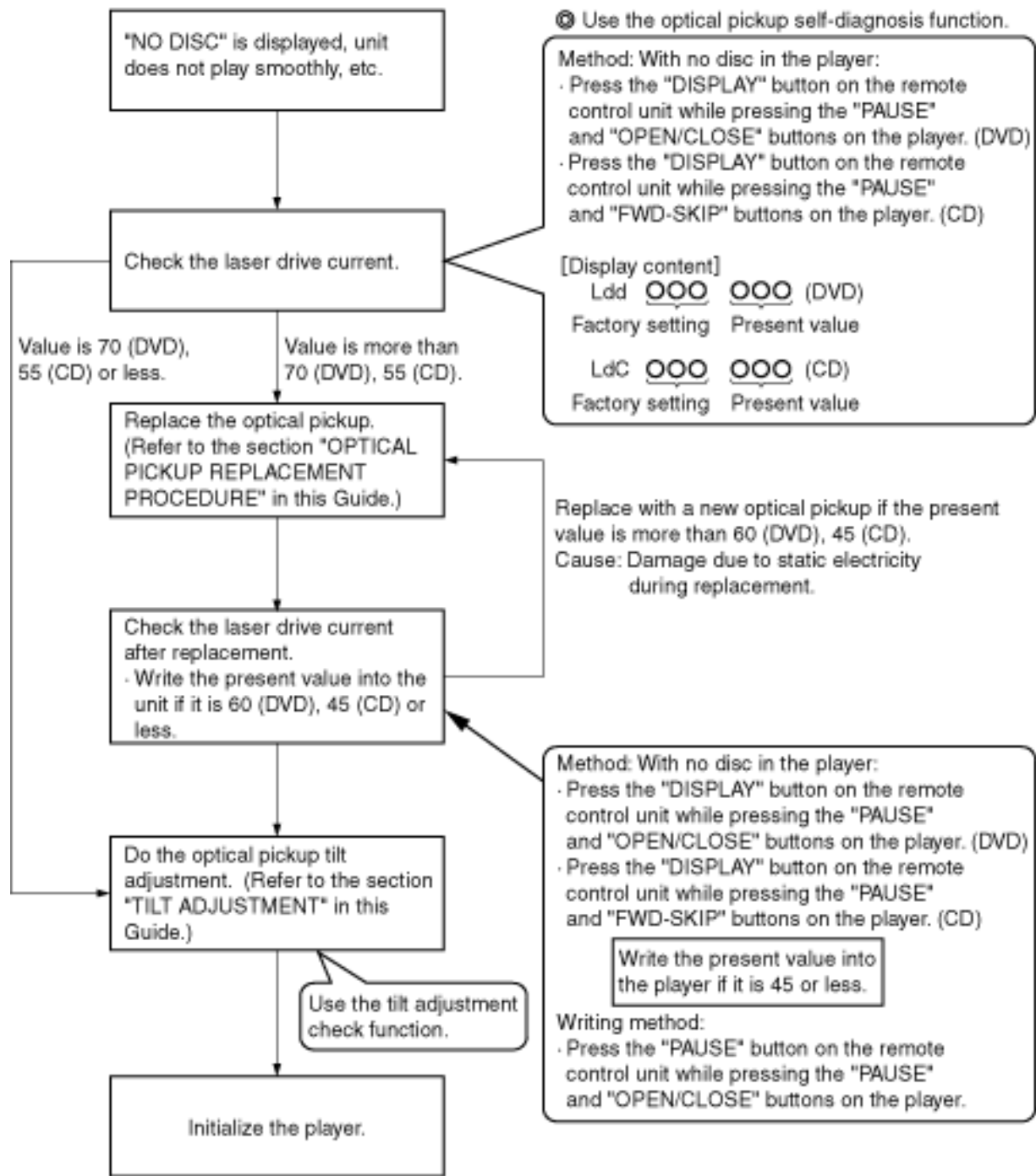
9.1 Optical Pickup Breakdown Diagnosis

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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.)



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9.2 Service Mode Table 1

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

Player buttons	Remote control unit buttons	Application	Note
PAUSE + OPEN/CLOSE	0	Displaying the UHF display F_ _ _	Refer to section 9.3. Self-Diagnosis Function (UHF Display).
	5	Jitter check, tilt adjustment *Display shows J_ xxx_ yyy_ zz "yyy" and "zz" shown to the right have nothing to do with the jitter value. "yyy" is the error counter, while "zz" is the focusdrive value. Referto section 11.4. for Optical Pickup Tilt Adjustment Procedure.	Refer to section 11.4. Optical Pickup Tilt Adjustment
	6	Checking the region numbers and broadcast system	
	7	Checking the program version	Check the IC6301 FLASH ROM program.
	9	Lighting Confirmation Function of Display Tube	
	DISPLAY	Checking the laser drive current	Refer to section 8 Optical Pickup Replacement Procedure.
	PAUSE	Writing the laser drive current value after replacing the optical pickup (do not use for anything other than optical pickup replacement)	
PAUSE SKIP/ SEARCH<< OPEN/CLOSE		Initializing the DVD player (restoring factory preset settings)	Refer to section 9.5. Initializing the DVD player.

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9.3 DVD Self Diagnostic Function-Error Code

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Error Code	Error Content	Additional error explanation	Defect 1	Defect 2	Defect 3	Defect 4
	U, H error					
U11	Focus error					
H01	Tray loading error					
H02	Spindle servo error	(Spindle servo, DV1 (IC3001) SP motor, CLV servo error)				
H03	Traverse servo error					
H04	Tracking servo error					
H05	Seek error					
H06	Power error	Cannot switch off the power because of the panel and system computer communication error				
H07	Spindle motor drive error		Spindle motor ass'y			
	DSC related					
F500	DSC error	DV1 (IC3001) stops in the occurrence of servo error (starup, focus error, etc)	Optical pickup	DV1 (IC3001)	DV1 (IC3001)	servo drive
F501	DSC not Ready	DSC-system computer communication error (Communication failure caused by idling of DSC)	DV1 (IC3001)	DV1 (IC3001)		
F502	DSC Time out error	Similar disposal as F500	Optical pickup	DV1 (IC3001)	DV1 (IC3001)	servo drive
F503	DSC communication Failure	Communication error (result error occurred although communication command was sent)	DV1 (IC3001)	DV1 (IC3001)	EEPROM (IC6351)	
F505	DSC Attention error	Similar disposal as F500	Optical pickup	DV1 (IC3001)	DV1 (IC3001)	servo drive

F506	Invalid media	Disc is flipped over, TOC unreadable, incompatible disc	DISC	DV1 (IC3001)	DV1 (IC3001)	DV1 (IC3001)
	ODC related					
F600	Access failure to management information caused by demodulation error	Operation stopped because navigation data is not accessible caused by the demodulation defect	DV1 (IC3001)	DV1 (IC3001)	DV1 (IC3001)	
F601	Indeterminate sector ID requested	Operation stopped caused by the request to access abnormal ID data	DV1 (IC3001)	DV1 (IC3001)	DV1 (IC3001)	
F602	Access failure to LEAD-IN caused by demodulation error	LEAD IN data unreadable				
F603	Access failure to KEYDET caused by demodulation error	Access failure to CSS data of disc				
F610	ODC abnormality	No permission for command execution	DV1 (IC3001)			
F611	6626 QCODE don't read Error	Access failure to seek address in CD series	DV1 (IC3001)			
F612	No CRC OK for a specific time	Access failure to ID data in DVD series	DV1 (IC3001)			
F630	No reply to KEY DET enquiry	(for internal use only)				
F631	CPPM KEY DET is not available till the FILE terminal	(CPPM file system is unreadable caused by scratches)	DISC	CPPM (*1)		
F632	CPPM KEY DET is not available	Been revoked or falsified	DISC	EEPROM (IC6351)	CPPM (*1)	
	Disc code					
F103	Illegal highlight Position	Big possibility of disc specification violation during highlight display	DISC			
	HIC Error					
F4FF	Force initialize failure (time out)		EEPROM (IC6351)	DV1 (IC3001)	DV1 (IC3001)	DV1 (IC3001)
	Micro computer error					
F700	MBX overflow	When replying message to disc manager				
F701	Message command does not end	Next message is sent before replying to disc manager				

F702	Message command changes	Message is changed before it is sent as a reply to disc manager				
F880	Task number is not appropriate	Message coming from a non-existing task				
F890	Sending message when message is being sent to AV task	Sending message to AV task				
F891	Message couldn't be sent to AV task	Begin sending message to AV task				
F893	FROM falsification		FROM (IC6301)	DV1 (IC3001)		
F894	EEPROM abnormality		EEPROM (IC6351)	Serial communication on lone		
F895	Language area abnormality	Firm version agreement check for factory preset setting failure prevention	FROM (IC6301)			
F896	No existence model	Firm version agreement check for factory preset setting failure prevention				
F897	Initialize is not completed	Initialize completion check for factory preset setting failure prevention				
F898	Disagreement of hardware and software	Unsuitable combination of AV DECORDER, SDRAM and FLASH ROM (firmware)				
F8A0	Message command is not appropriate	Begin sending message to AV task				

Note:

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

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

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9.4 Last Error Code saved during NO PLAY

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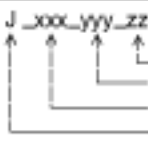
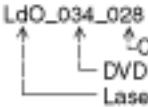

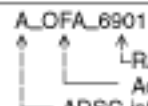
Error code	Error Content	System computer	Setting task	System computer internal error code
F0BF	6) Cannot playback because physical layer is not recognizable	PCND_NOPLAY PHYSICAL 0x50	DriveManager	0xDOBF
F0C0	8) DVD: Cannot playback because it is not DVD Video/Adio/VR	PCND_NOPLAY VIDEO 0x70	DiscManager	0xDOC0
F0C1	9) DVD: Prohibited by the restricted region code	PCND_NOPLAY RCD 0x80	DiscManager	0xDOC1
F0C2	A) DVD: PAL restricted playback	PCND_NOPLAY PAL 0x90	DiscManager	0xDOC2
F0C3	B) DVD: Parental lock setting prohibits the playback of the entire title	PCND_NOPLAY PTL 0xA0	DiscManager	0xDOC3
F0C4	C) VCD: Prohibited because it is in PHOTO CD fromat	PCND_NOPLAY PHOTO CD 0xB0	DiscManager	0xDOC4
F0C5	VCD/CD: Prohibited because it is CDROM without CD-DA	PCND_NOPLAY CDROM 0xC0	DiscManager	0xDOC5

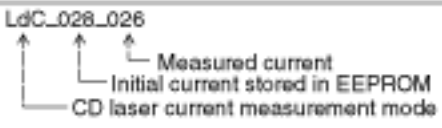
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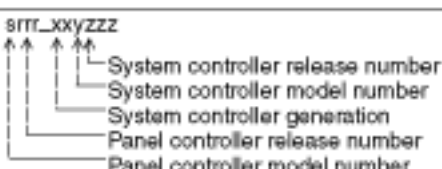
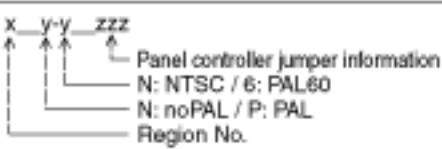
9.5 Service mode table 2

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Pressing various button combinations on the player and remote control unit can activate the service modes.

Item	Player mode and button combination	Function	Display	Cancellation method
Jitter check	In STOP (no disc) mode, press PAUSE and OPEN buttons on the player, and "5" button on the remote control unit.	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 retried 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.	 <p>Jitter rate is shown in decimal notation to one place of decimal. Focus drive value is shown in hexadecimal notation.</p>	Press STOP or OPEN button.
Error code check	In STOP (no disc) mode, press PAUSE and OPEN buttons on the player, and "0" button on the remote control unit. * With pointing of cursor up and down on display, the panel controller switches serial number of history and sends out the command accordingly.	Error code check The latest error code stored in EEPROM is displayed.	Error code (play_err) is expressed in the following convention. Error code = 0 x DAXX is expressed: → nn UXX Error code = 0 x DBXX is expressed: → nn HXX Error code = 0 x DXXX is expressed: → nn FXXX Error code = 0 x 0000 is expressed: → nn F--- * "nn" denotes the serial number of history. * "xx" denotes the error code.	Cancelled automatically 5 seconds later.
Initial setting of laser drive current	In STOP (no disc) mode, press PAUSE and OPEN buttons on the player, and PAUSE button on the remote control unit.	Initial setting of laser drive current Initial current value for each of DVD laser and CD laser is separately saved in EEPROM.	 <p>The value denotes the current in decimal notation. The above example shows the initial current is 34mA and 28mA for DVD laser and CD laser respectively when the laser is witted on.</p>	Cancelled automatically 5 seconds later.
DVD laser drive current measurement	In STOP (no disc) mode, press PAUSE and OPEN buttons on the player, and DISPLAY button on the remote control unit.	DVD laser drive current measurement DVD laser drive current is measured and the result is displayed together with the initial value stored in EEPROM. After the measurement, DVD laser emission is kept on. It is turned off when POWER key is switched off. (It is also turned off when POWER button on the player is switched off.)	 <p>The value denotes the current in decimal notation. The above example shows the initial current is 34mA and the measured value is 32mA.</p>	Cancelled automatically 5 seconds later.
ADSC internal RAM data check	In STOP (no disc) mode, press PAUSE and OPEN buttons on the player, and RETURN button on the remote control unit.	ADSC internal RAM data check ADSC internal RAM data is read out and displayed. Change the address with CLEAR key operation to show the data for 11 addresses.	 <p>The value is shown in hexadecimal notation. The above example shows the data in ADSC address DFAh is 6901h.</p>	Press STOP or OPEN button.
Servo process display	In STOP (no disc) mode, press PAUSE and FWD-SKIP buttons on the	Servo process display The servo process from STOP to ACCESS is displayed.	_____	Pull out the AC cord.

Servo process display	In STOP (no disc) mode, press PAUSE and FWD-SKIP buttons on the player, and "7" button on the remote control unit.	Servo process display The servo process from STOP to ACCESS is displayed.	_____	Pull out the AC cord.
CD laser drive current measurement	In STOP (no disc) mode, press PAUSE and FWD-SKIP buttons on the player, and DISPLAY button on the remote control unit.	CD laser drive current measurement CD laser drive current is measured and the result is displayed together with the initial value stored in EEPROM. After the measurement, CD laser emission is kept on. It is turned off when POWER key is switched off. (It is also turned off when POWER button on the player is switched off.)	LdC_028_026  The value denotes the current in decimal notation. The above example shows the initial current is 28mA and the measured value is 26mA.	Cancelled automatically 5 seconds later.

Item	Player mode and button combination	Function	Display	Cancellation method
Version display	In STOP (no disc) mode, press PAUSE and OPEN buttons on the player, and "7" button on the remote control unit.	Version display	811T_XxyZZZ 	Cancelled automatically 5 seconds later.
Lighting of display tube	In STOP (no disc) mode, press PAUSE and OPEN buttons on the player, and "9" button on the remote control unit.	Lighting of display tube	_____	Repeat the same operation.
Dealer's lock	In STOP (no disc) mode, press STOP button on the player, and POWER button on the remote control unit for 1 second or longer.	Dealer's lock The lock is switched ON or OFF. When dealer's lock is ON, it prohibits switching off of the secondary power and tray opening. When the lock is switched, its ON/OFF status is stored in EEPROM.	· "LOCK" sign appears when dealer's lock is switched on, or when secondary power key or tray opening key is pressed while the lock is on. · "UNLOCK" sign appears when dealer's lock is switched off.	Repeat the same operation.
Initialization	In STOP (no disc) mode, press PAUSE, BWD-SKIP and OPEN buttons on the player for 3 seconds or longer.	Initialization User settings are cancelled and player is initialized to factory setting.	"INIT"	
Region display	In STOP (no disc) mode, press PAUSE and OPEN buttons on the player, and "6" button on the remote control unit.	Region display	x_y-y_zzz 	Cancelled automatically 5 seconds later.

Item	Player mode and button combination	Function	Display	Cancellation method
Timer 1 check	In STOP (no disc) mode, press PAUSE and FWD-SKIP buttons on the player, and "5" button on the remote control unit.	Timer 1 check Laser operation timer Operation time is measured separately for DVD laser and CD laser.	t1_1234_5678 Shown to the left is DVD laser time, and to the right CD laser time. Time is shown in 4 digits of decimal notation in a unit of 10 hours. "0000" will follow "9999".	Cancelled automatically 5 seconds later.
Timer 1 reset	While displaying Timer 1 data, press STOP and FWD-SKIP buttons on the player, and "5" button on the remote control unit.	Timer 1 reset Laser operation timer Operation time of both DVD laser and CD laser is reset all at once.	t1_0000_0000	Cancelled automatically 5 seconds later.
Timer 2 check	In STOP (no disc) mode, press PAUSE and FWD-SKIP buttons on the player, and "6" button on the remote control unit.	Timer 2 check Spindle motor operation timer	t2_12345 Time is shown in 5 digits of decimal notation in a unit of 10 hours. "00000" will follow "99999".	Cancelled automatically 5 seconds later.
Timer 2 reset	While displaying Timer 2 data, press STOP and FWD-SKIP buttons on the player and "6" button on the remote control unit.	Timer 2 reset Spindle motor operation timer	t2_00000	Cancelled automatically 5 seconds later.

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9.6 Sales demonstration lock function

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

[9.6.1 Setting](#)

[9.6.2 Cancellation](#)

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9.6.1 Setting

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The sales demonstration lock is set by simultaneously pressing STOP button on the player and POWER button on the remote control unit for 1 second or longer.

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9.6.2 Cancellation

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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.)

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9.7 Handling After Completing Repairs

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Use the following procedure after completing repairs.

[9.7.1 Method](#)

[9.7.2 Precautions](#)

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9.7.1 Method

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Confirm that the power is turned on:

1. Press the "OPEN/CLOSE" button to close the tray.
2. Press the "POWER" button to turn off the power.
3. Disconnect the power plug from the outlet.

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9.7.2 Precautions

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Do not disconnect the power plug from the outlet with the tray still open, then close the tray manually.

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10 Service Precautions

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[10.1 Recovery after the dvd player is repaired](#)

[10.2 Firmware version-up of the DVD player](#)

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10.1 Recovery after the dvd player is repaired

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- When FROM or module P.C.B. is replaced, carry out the recovery processing to optimize the drive.

Playback the recovery disk to process the recovery automatically.

- Recovery disc (Product number: RFKZD03R004)
- Performing recovery
 1. Load the recovery disc RFKZD03R004 on to the player and run it.
 2. Recovery is performed automatically. When it is finished, a message appears on the screen.
 3. Remove the recovery disc.
 4. Turn off the power.

Note:

This unit requires no initialization process carried out after the traditional DVD players were repaired.

When the recovery measures are taken, the customer setting will return to the factory setting as same as the procedure described in item of "Initialization" in 9.5. is carried out. Write down the contents of the setting before recovery processing, and reset the player.

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10.2 Firmware version-up of the DVD player

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- The firmware of the DVD player may be renewed to improve the quality including operationability and playerbility to the substandard discs.processing to optimize the drive.

The recovery disc has also firmware version-up.

- After version-up, recovery processing is executed automatically.
- Part number of the recovery disc for version-up will be noticed when it is supplied.
- Updating firmware
 1. Load the recovery disc that is supplied to the player and run it.
 2. Firmware version of the player is automatically checked. Appropriate message appears whenever necessary.
 3. Using remote controller's cursor key, select whether version updating is to be done or not. (Selection of Yes/No)
 4. a. If Yes is selected, version updating is performed.
b. If No is selected, only recovery is performed.
 5. a. When updating is finished, remove the disc according to the message appearing on the screen.
b. Remove the disc according to the message appearing on the screen.
 6. Turn off the power.

Note:

If the AC power supply is shut out during version-up due to a power failure, the version-up is improperly carried out.

In such a case, replace the FROM and carry out the version-up again.

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11 ADJUSTMENT PROCEDURES

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11.1 Service Tools and Equipment

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Application	Name	Number
Tilt adjustment	DVD test disc	DVDT-S15 or DVDT-S01
	Hex wrench	Available on sales route.
Inspection	Extension cable (main P.C.B. to power supply P.C.B.)	RFKZ0152
	Extension cable (power supply P.C.B. to operation (R) P.C. B.)	VFK1732
Others	Grease 1	RFKXGAK152
	Grease 2	RFKXPG641
	Oil (1)	RFKXGA1280
Confirmation	CD test disc	PVCD-K06 or any other commercially available disc
	VCD test disc	PVCD-K06 or any other commercially available disc
	Recovery disc	RFKZD03R004

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11.2 Important points in adjustment

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[11.2.1 Important points in optical adjustment](#)

[11.2.2 Important points in electrical adjustment](#)

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11.2.1 Important points in optical adjustment

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- Before starting optical adjustment, be sure to take anti-static measures.
- Optical pickup tilt adjustment is needed after replacement of the following components.
 1. Optical pickup unit
 2. Spindle motor unit
 3. Optical pickup peripheral parts (such as rail)

Notes

Adjustment is generally unnecessary after replacing other parts of the traverse unit. However, make adjustment if there is a noticeable degradation in picture quality. Optical adjustments cannot be made inside the optical pickup. Adjustment is generally unnecessary after replacing the traverse unit.

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11.2.2 Important points in electrical adjustment

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- Follow the adjustment procedures described in this Manual.

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11.3 Storing and Handling Test Discs

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

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11.4 Optical adjustment

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[11.4.1 Optical pickup tilt adjustment](#)

[11.4.1.1 Adjustment procedure](#)

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[11.4.1.4 Procedure for screw lock](#)

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11.4.1 Optical pickup tilt adjustment

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Measurement point	Adjustment point	Mode	Disc
	Tangential adjustment screw Tilt adjustment screw	T01 (inner periphery) play T43 (outer periphery) play	DVDR-S15 or DVDT-S01
Measuring equipment		Adjustment value	
None (Main unit display for servicing is used.)		Adjust to the minimum jitter value.	

[11.4.1.1 Adjustment procedure](#)

[11.4.1.2 Important points](#)

[11.4.1.3 Check after adjustment](#)

[11.4.1.4 Procedure for screw lock](#)

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11.4.1.1 Adjustment procedure

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1. While pressing PAUSE and OPEN/CLOSE buttons on the main unit, press "5" on the remote control unit.
2. Confirm that "J_xxx_yyy_zz" is shown on the front display.

For your information:

"yyy" and "zz" shown to the right have nothing to do with the jitter value. "yyy" is the error counter, while "zz" is the focus drive value.

Note:

Jitter value appears on the front display.

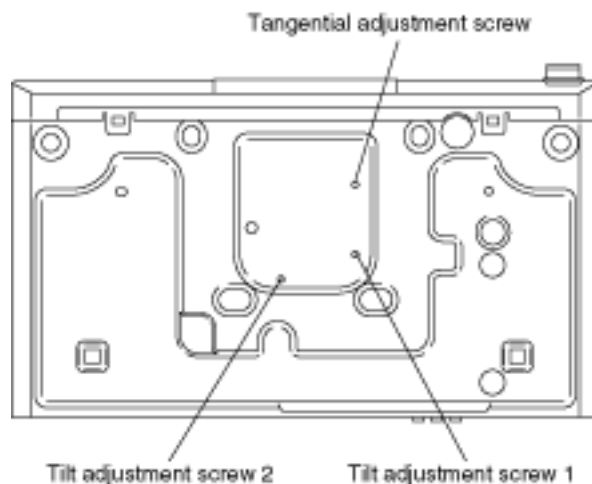
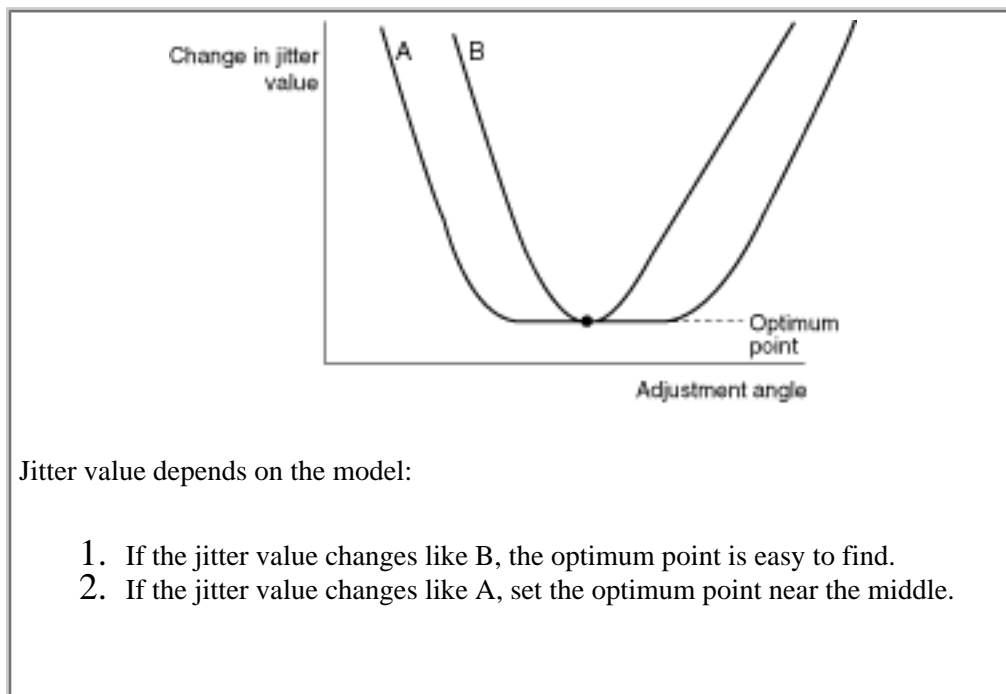
3. Play test disc T01 (inner periphery).
4. Adjust tangential adjustment screw so that the jitter value is minimized.
5. Play test disc T43 (outer periphery).
6. Adjust tilt adjustment screw 1 so that the jitter value is minimized.
7. Play test disc T43 (outer periphery).
8. Adjust tilt adjustment screw 2 so that the jitter value is minimized.
9. Repeat adjusting tilt adjustment screws 1 and 2 alternately until the jitter value is minimized.

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11.4.1.2 Important points

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1. Make tangential adjustment first, and then make tilt adjustment.
2. Repeat adjusting two or three times to find the optimum point.
3. Finish the procedure with tilt adjustment.



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11.4.1.3 Check after adjustment

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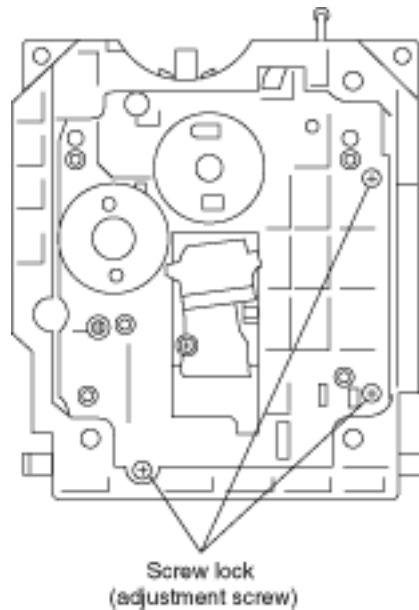
Play test disc or any other disc to make sure there is no picture degradation in the inner, middle and outer peripheries, and no audio skipping. After adjustment is finished, lock each adjustment screw in position using screw lock.

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11.4.1.4 Procedure for screw lock

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1. After adjustment, remove top cover, tray, clamper base and traverse unit in this sequence.
2. Lay the traverse unit upside down, and fix adjustment screw with screw lock.
3. After fixing, reassemble traverse unit, clamper base, tray and top cover.



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12 Abbreviations

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INITIAL/LOGO	ABBREVIATIONS
A	A0~UP ADDRESS ACLK AUDIO CLOCK AD0~UP ADDRESS BUS ADATA AUDIO PES PACKET DATA ALE ADDRESS LATCH ENABLE AMUTE AUDIO MUTE AREQ AUDIO PES PACKET REQUEST ARF AUDIO RF ASI SERVO AMP INVERTED INPUT ASO SERVOAMPOUTPUT ASYNC AUDIO WORD DISTINCTION SYNC
B	BCK BIT CLOCK (PCM) BCKIN BIT CLOCK INPUT BDO BLACK DROP OUT BLKCK SUB CODE BLOCK CLOCK BOTTOM CAP. FOR BOTTOM HOLD BYP BYPATH BYTCK BYTE CLOCK
C	CAV CONSTANT ANGULAR VELOCITY CBDO CAP. BLACK DROP OUT CD COMPACT DISC CDSCK CD SERIAL DATA CLOCK CDSRDATA CD SERIAL DATA CDRF CD RF (EFM) SIGNAL CDV COMPACT DISC-VIDEO CHNDATA CHANNEL DATA CKSL SYSTEMCLOCKSELECT CLV CONSTANT LINEAR VELOCITY COFTR CAP. OFF TRACK CPA CPU ADDRESS CPCS CPU CHIP SELECT CPDT CPU DATA CPUADR CPU ADDRESS LATCH CPUADT CPU ADDRESS DATA BUS CPUIRQ CPU INTERRUPT REQUEST CPRD CPU READ ENABLE CPWR CPU WRITE ENABLE CS CHIPSELECT CSYNCIN COMPOSITESYNC IN CSYNCOUT COMPOSITE SYNC OUT

D	DACCK DEEMP DEMPH DIG0~UP DIN DMSRCK DMUTE DO DOUT0~UP DRF DRPOUT DREQ DRESP DSC DSLRF DVD	D/A CONVERTER CLOCK DEEMPHASIS BIT ON/OFF DEEMPHASIS SWITCHING FL DIGIT OUTPUT DATA INPUT DM SERIAL DATA READ CLOCK DIGITAL MUTE CONTROL DROPOUT DATAOUTPUT DATA SLICE RF (BIAS) DROP OUT SIGNAL DATA REQUEST DATA RESPONSE DIGITAL SERVO CONTROLLER DATA SLICE LOOP FILTER DIGITAL VIDEO DISC
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INITIAL/LOGO		ABBREVIATIONS
E	EC ECR ENCSEL ETMCLK ETSCLK	ERROR TORQUE CONTROL ERROR TORQUE CONTROL REFERENCE ENCODER SELECT EXTERNAL M CLOCK (81MHz/40.5MHz) EXTERNAL S CLOCK (54MHz)
F	FBAL FCLK FE FFI FEO FG FSC FSCK	FOCUS BALANCE FRAME CLOCK FOCUS ERROR FOCUS ERROR AMP INVERTED INPUT FOCUS ERROR AMP OUTPUT FREQUENCY GENERATOR FREQUENCY SUB CARRIER FS (384 OVER SAMPLING)CLOCK
G	GND	COMMON GROUNDING (EARTH)
H	HA0~UP HD0~UP HINT HRXW	HOST ADDRESS HOST DATA HOST INTERRUPT HOST READ/WRITE
I	IECOUT IPFRAG IREF ISEL	IEC958 FORMAT DATA OUTPUT INTERPOLATION FLAG I (CURRENT) REFERENCE INTERFACE MODE SELECT
L	LDON LPC LRCK	LASER DIODE CONTROL LASER POWER CONTROL L CH/R CH DISTINCTION CLOCK

M	MA0~UP MCK MCKI MCLK MDATA MDQ0~UP MDQM MLD MPEG	MEMORY ADDRESS MEMORY CLOCK MEMORY CLOCK INPUT MEMORY SERIAL COMMAND CLOCK MEMORY SERIAL COMMAND DATA MEMORY DATA INPUT/OUTPUT MEMORY DATA I/O MASK MEMORY SERIAL COMMAND LOAD MOVING PICTURE EXPERTS GROUP
O	ODC OFTR OSCI OSCO OSD	OPTICAL DISC CONTROLLER OFF TRACKING OSCILLATOR INPUT OSCILLATOR OUTPUT ON SCREEN DISPLAY
P	P1~UP PCD PCK PDVD PEAK PLLCLK PLLOK PWMCTL PWMDA PWMOA, B	PORT CD TRACKING PHASE DIFFERENCE PLL CLOCK DVD TRACKING PHASE DIFFERENCE CAP. FOR PEAK HOLD CHANNEL PLL CLOCK PLL LOCK PWM OUTPUT CONTROL PULSE WAVEMOTOR DRIVEA PULSE WAVE MOTOR OUT A, B

INITIAL/LOGO		ABBREVIATIONS
R	RE RFENV RFO RS RSEL RST RSV	READ ENABLE RF ENVELOPE RF PHASE DIFFERENCE OUTPUT (CD-ROM) REGISTER SELECT RF POLARITY SELECT RESET RESERVE
S	SBI0, 1 SBO0 SBT0, 1 SCK SCKR SCL SCLK SDA SEG0~UP SELCLK SEN SIN1, 2 SOUT1, 2 SPDI SPDO SPEN SPRCLK SPWCLK SQCK	SERIAL DATA INPUT SERIAL DATA OUTPUT SERIAL CLOCK SERIAL DATA CLOCK AUDIO SERIAL CLOCK RECEIVER SERIAL CLOCK SERIAL CLOCK SERIAL DATA FL SEGMENT OUTPUT SELECTCLOCK SERIALPORT ENABLE SERIAL DATA IN SERIAL DATA OUT SERIAL PORT DATA INPUT SERIAL PORT DATA OUTPUT SERIAL PORT R/W ENABLE SERIAL PORT READ CLOCK SERIAL PORT WRITE CLOCK SUB CODE Q CLOCK

	SQCX SRDATA SRMADR SRMDT0~7 SS STAT STCLK STD0~UP STENABLE STSEL STVALID SUBC SBCK SUBQ SYSCLK	SUBCODEQ DATA READ CLOCK SERIAL DATA SRAM ADDRESS BUS SRAM DATA BUS 0~7 START/STOP STATUS STREAM DATA CLOCK STREAM DATA STREAM DATA INPUT ENABLE STREAM DATA POLARITY SELECT STREAMDATAVALIDITY SUB CODE SERIAL SUB CODE CLOCK SUB CODE Q DATA SYSTEM CLOCK
T	TE TIBAL TID TIN TIP TIS TPSN TPSO TPSP TRCRS TRON TRSON	TRACKING ERROR BALANCE CONTROL BALANCE OUTPUT 1 BALANCE INPUT BALANCE INPUT BALANCE OUTPUT 2 OP AMP INPUT OP AMP OUTPUT OP AMP INVERTED INPUT TRACKCROSSIGNAL TRACKING ON TRAVERSE SERVO ON

INITIAL/LOGO		ABBREVIATIONS
V	VBLANK VCC VCDCONT VDD VFB VREF VSS	V BLANKING COLLECTOR POWER SUPPLY VOLTAGE VIDEO CD CONTROL (TRACKING BALANCE) DRAIN POWER SUPPLY VOLTAGE VIDEO FEED BACK VOLTAGE REFERENCE SOURCE POWERSUPPLYVOLTAGE
W	WAIT WDCK WEH WSR	BUS CYCLE WAIT WORD CLOCK WRITE ENABLE HIGH WORD SELECT RECEIVER

X	X	X' TAL
	XALE	X ADDRESS LATCH ENABLE
	XAREQ	X AUDIO DATA REQUEST
	XCDROM	X CD ROM CHIP SELECT
	XCS	X CHIP SELECT
	XCSYNC	X COMPOSITE SYNC
	XDS	X DATA STROBE
	XHSYNCO	X HORIZONTAL SYNC OUTPUT
	XHINT	XHINTERRUPTREQUEST
	XI	X' TAL OSCILLATOR INPUT
	XINT	X INTERRUPT
	XMW	X MEMORY WRITE ENABLE
	XO	X' TAL OSCILLATOR OUTPUT
	XRE	X READ ENABLE
	XSRMCE	X SRAM CHIP ENABLE
	XSRMOE	X SRAM OUTPUT ENABLE
	XSRMWE	X SRAM WRITE ENABLE
	XVCS	XV-DEC CHIPSELECT
	XVDS	X V-DEC CONTROL BUS STROBE
	XVSYNCO	X VERTICAL SYNC OUTPUT

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13 VOLTAGE CHART

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Note:

- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.

[13.1 POWER SUPPLY P.C.B.](#)

[13.2 MAIN P.C.B.](#)

[13.3 OPERATION P.C.B.](#)

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13.1 POWER SUPPLY P.C.B.

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Ref No. MODE	IC1021								IC1101			IC1151				
	1	2	3	4	5	6	7	8	1	2	3	1	2	3	4	5
STOP	-44.9	-46.0	-46.0	-41.3	350	-	-46.0	-46.0	3.2	2.5	0	0	3.3	9.8	9.0	12.3
PLAY	-45.0	-45.8	-45.8	-40.6	1032	-	-44.5	-45.7	3.3	2.5	0	0	3.3	9.8	9.0	10.8

Ref No. MODE	Q1051				Q1116			Q1125			Q1127			Q1128		
	1	2	3	4	1	2	3	1	2	3	1	2	3	1	2	3
STOP	5.2	4.1	-40.6	-34.9	5.1	5.1	0.1	2.2	1.6	1.4	1.0	1.4	1.6	1.0	1.6	1.6
PLAY	5.2	4.1	-40.6	-34.3	5.1	5.0	0.1	2.2	1.6	1.4	0.9	1.4	1.6	0.9	1.6	1.6

Ref No. MODE	Q1155			Q1191		
	1	2	3	1	2	3
STOP	14.3	9.2	14.3	3.3	5.1	4.0
PLAY	13.0	9.1	13.0	3.3	5.1	4.0

Ref No. MODE	QR1115			QR1156		
	1	2	3	1	2	3
STOP	0	0	3.3	0	14.3	0
PLAY	0	0	3.3	0	13.0	0

13.2 MAIN P.C.B.

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Ref No.	IC3501																										
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20							
STOP	4.9	2.2	4.9	0	0	1.7	2.5	0	1.8	0	0	1.6	0	2.2	4.9	2.2	0	2.2	2.2	0							
PLAY	4.9	2.2	4.9	0	0	1.8	2.4	0	2.1	0	0	1.8	0	2.2	4.9	2.2	0	2.2	2.2	0							
Ref No.	IC3501																										
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34													
STOP	2.2	2.2	0	1.6	1.5	0	1.7	1.6	0	1.7	1.5	0	2.2	4.9													
PLAY	2.2	2.2	0	2.0	1.9	0	2.0	1.9	0	1.9	1.9	0	2.2	4.9													
Ref No.	IC4201																										
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16											
STOP	1.6	0	1.6	0	3.2	5.0	2.5	2.5	0	2.5	0	0	3.2	2.9	3.2	1.5											
PLAY	1.6	0.8	1.6	0	3.2	5.0	2.5	2.5	0	2.5	3.2	0	3.2	2.8	3.2	1.4											
Ref No.	IC4311								IC4491								IC6201										
MODE	1	2	3	4	5	6	7	8		1	2	3		1	2	3	4	5									
STOP	0	2.5	2.5	-9.3	2.5	0	2.6	14.3		1.6	5.0	0		0	0	0	3.3	3.3									
PLAY	0	2.5	2.5	-9.1	2.5	2.5	2.5	13.0		1.6	5.0	0		0	0	0	3.2	3.2									
Ref No.	IC6251																										
MODE	1	2	3	4	5																						
STOP	1.2	0	5.0	5.0	3.3																						
PLAY	1.2	0	5.0	5.0	3.2																						
Ref No.	IC6301																										
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20							
STOP	2.3	1.2	1.2	1.1	1.3	1.1	1.3	1.6	0	0	3.2	3.2	0	3.2	0.2	0.9	0.9	1.1	1.5	1.4							
PLAY	1.2	1.6	1.3	1.1	1.6	1.7	1.3	0	0	0	3.2	3.2	0	3.2	0.2	0.3	0.4	1.3	1.6	1.3							
Ref No.	IC6301																										
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40							
STOP	1.1	1.7	2.0	1.9	3.2	0	0	3.2	3.2	0	0	3.2	0	0	0	0	3.2	0	0	3.2							
PLAY	1.4	1.6	1.8	1.8	2.0	1.7	0	1.8	1.8	0	0	1.0	1.8	1.5	1.7	1.5	3.2	1.3	1.1	1.2							
Ref No.	IC6301								IC6351																		
MODE	41	42	43	44	45	46	47	48		2	3	4	5	6	7	8											
STOP	3.2	0	0	3.2	3.2	0	3.2	0		0	0	0	3.3	3.3	0	3.3											
PLAY	1.2	1.6	1.6	1.4	1.5	0	3.2	1.1		0	0	0	3.2	3.2	0	3.2											
Ref No.	IC6561																										
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16											
STOP	3.2	0	1.6	1.3	3.2	0	0	1.4	1.4	1.3	0	3.2	1.5	3.2	1.4	3.2											
PLAY	3.2	0	1.6	1.3	3.2	0	0	1.4	1.4	1.3	0	3.2	1.4	3.2	1.4	3.2											

Ref No.	Q4402			Q4411			Q4421			Q5111			Q5122								
MODE	1	2	3		1	2	3		1	2	3		1	2	3		1	2	3		
STOP	0	0	0		0	0	0.7		0	0	0.7		5.0	0	5.0		5.0	0	5.0		
PLAY	0	2.7	0		0	0	-4.5		0	0	-4.5		4.0	2.2	3.3		5.0	0	5.0		
Ref No.	QR3521			QR4401			QR4403														
MODE	1	2	3		1	2	3		1	2	3	4	5	6							
STOP	0	0.1	3.3		0	0	3.2		0	0	0	2.1	0	0							
PLAY	0	0	3.2		0	2.7	0		0.1	0	0.1	-4.5	0	0							

13.3 OPERATION P.C.B.

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14 BLOCK DIAGRAM

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[14.1 OVERALL BLOCK DIAGRAM](#)

[14.2 POWER SUPPLY BLOCK DIAGRAM \(DVD-S35GCS/GCU/GC/GCA/GD/EE/GN/PL/PX/PLA\)](#)

[14.3 POWER SUPPLY BLOCK DIAGRAM \(DVD-S35PLA\)](#)

[14.4 SERVO BLOCK DIAGRAM](#)

[14.5 VIDEO BLOCK DIAGRAM](#)

[14.6 AUDIO BLOCK DIAGRAM](#)

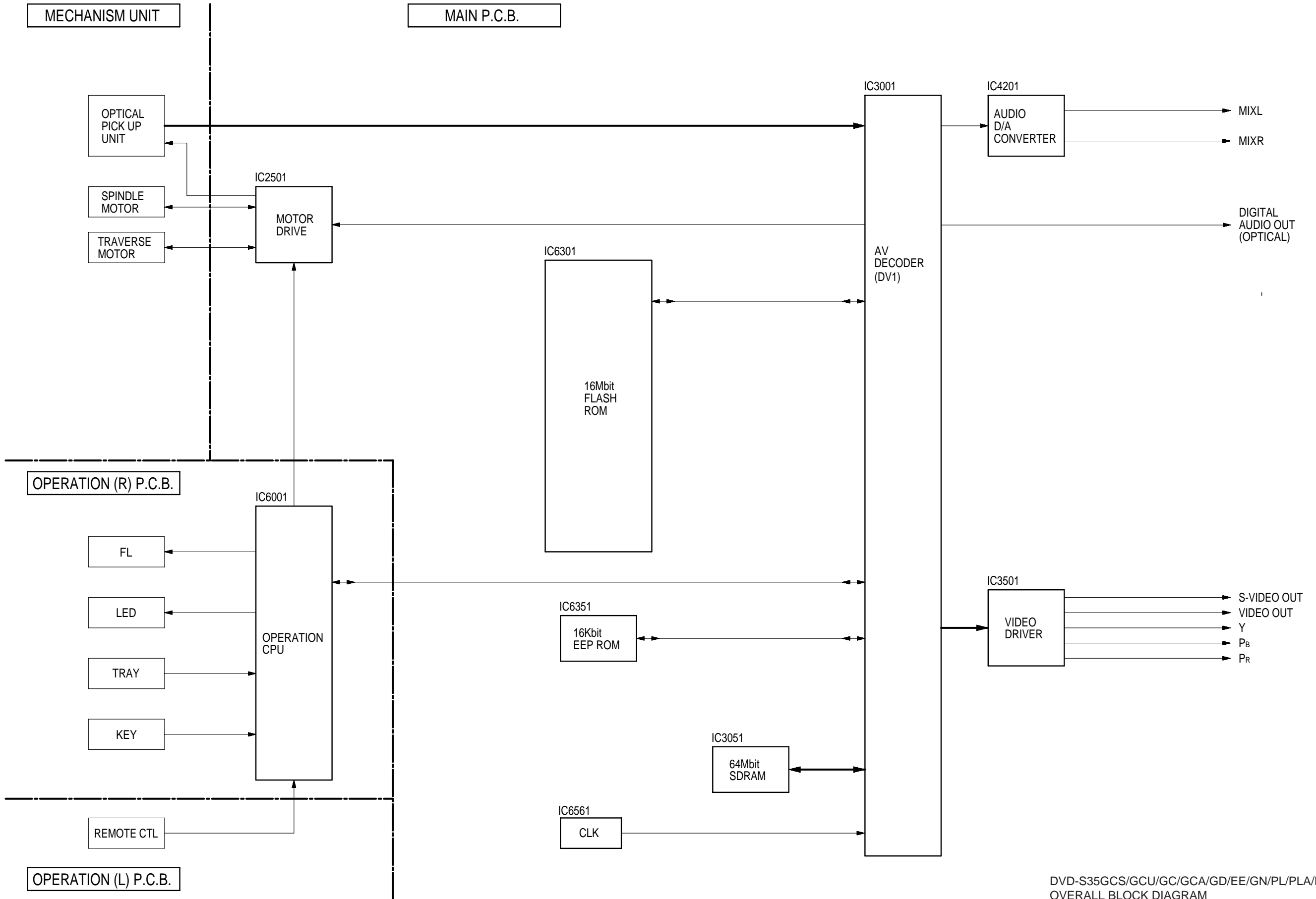
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14.1 OVERALL BLOCK DIAGRAM

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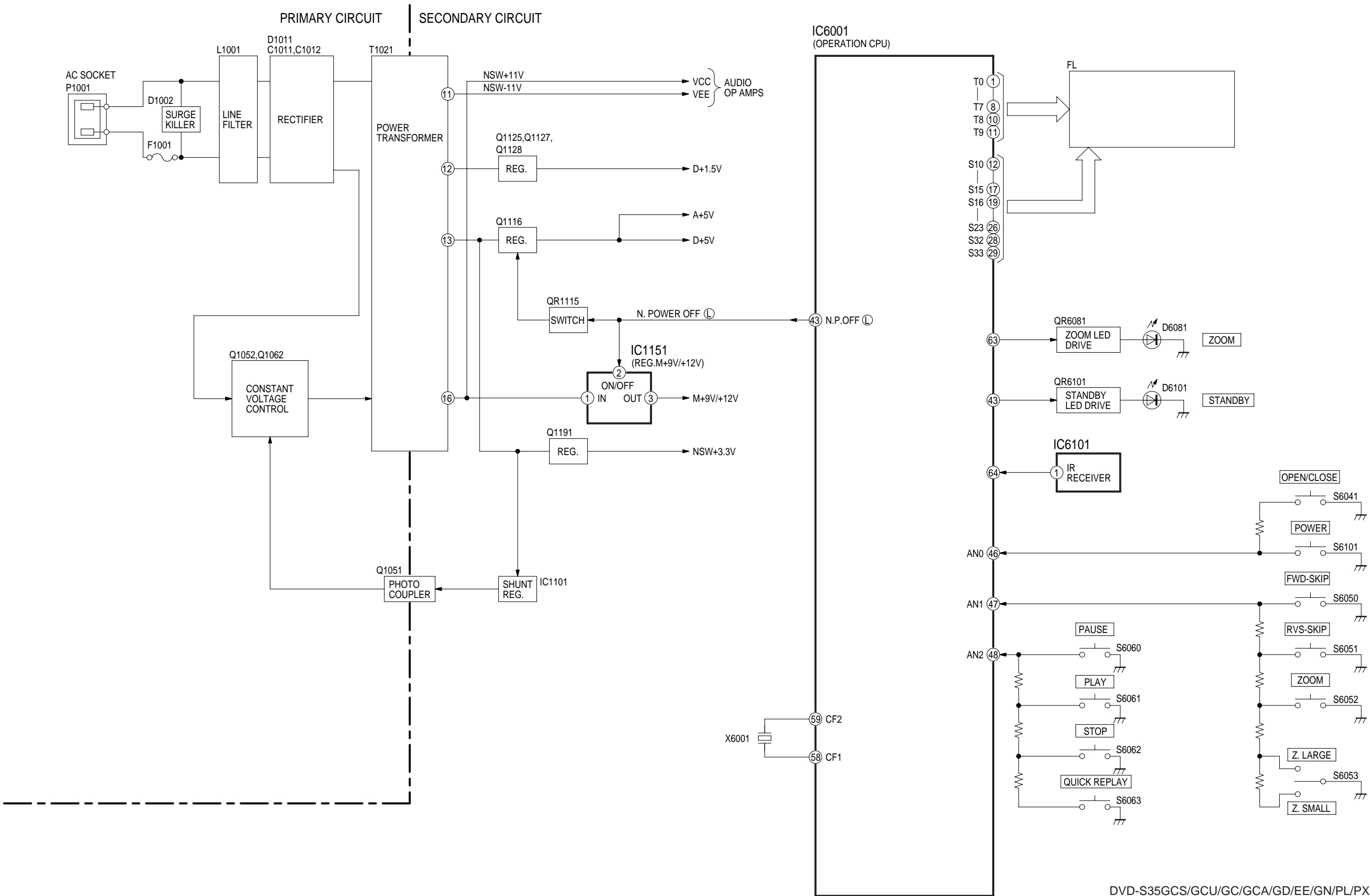
DVD-S35GCS/GCU/GC/GCA/GD/EE/GN/PL/PLA/PX
OVERALL BLOCK DIAGRAM

14.2 POWER SUPPLY BLOCK DIAGRAM (DVD-S35GCS/GCU/GC/GCA/GD/EE/GN/PL/PX/PLA)

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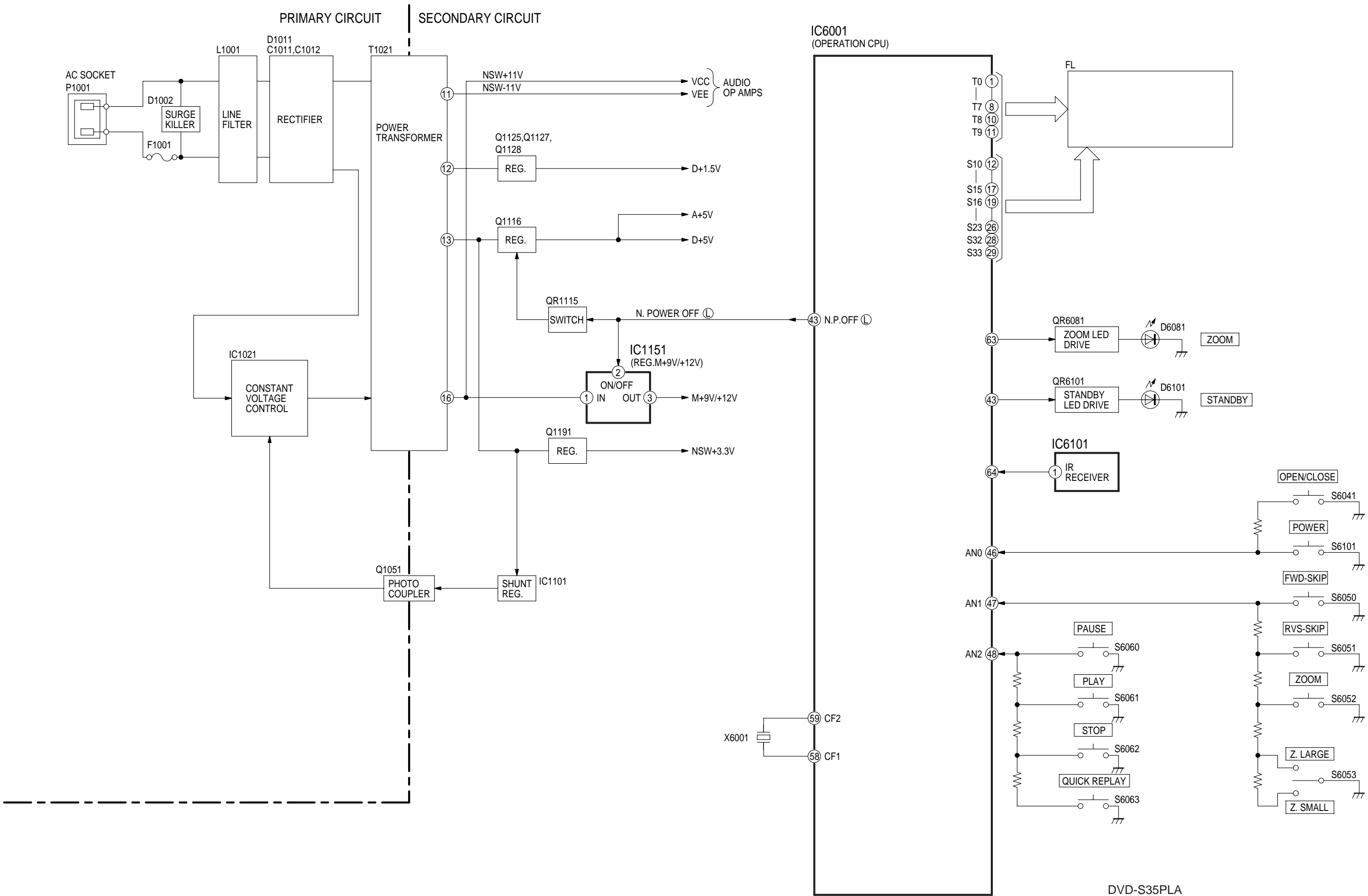
DVD-S35GCS/GCU/GC/GCA/GD/EE/GN/PL/PX
POWER SUPPLY BLOCK DIAGRAM

14.3 POWER SUPPLY BLOCK DIAGRAM (DVD-S35PLA)

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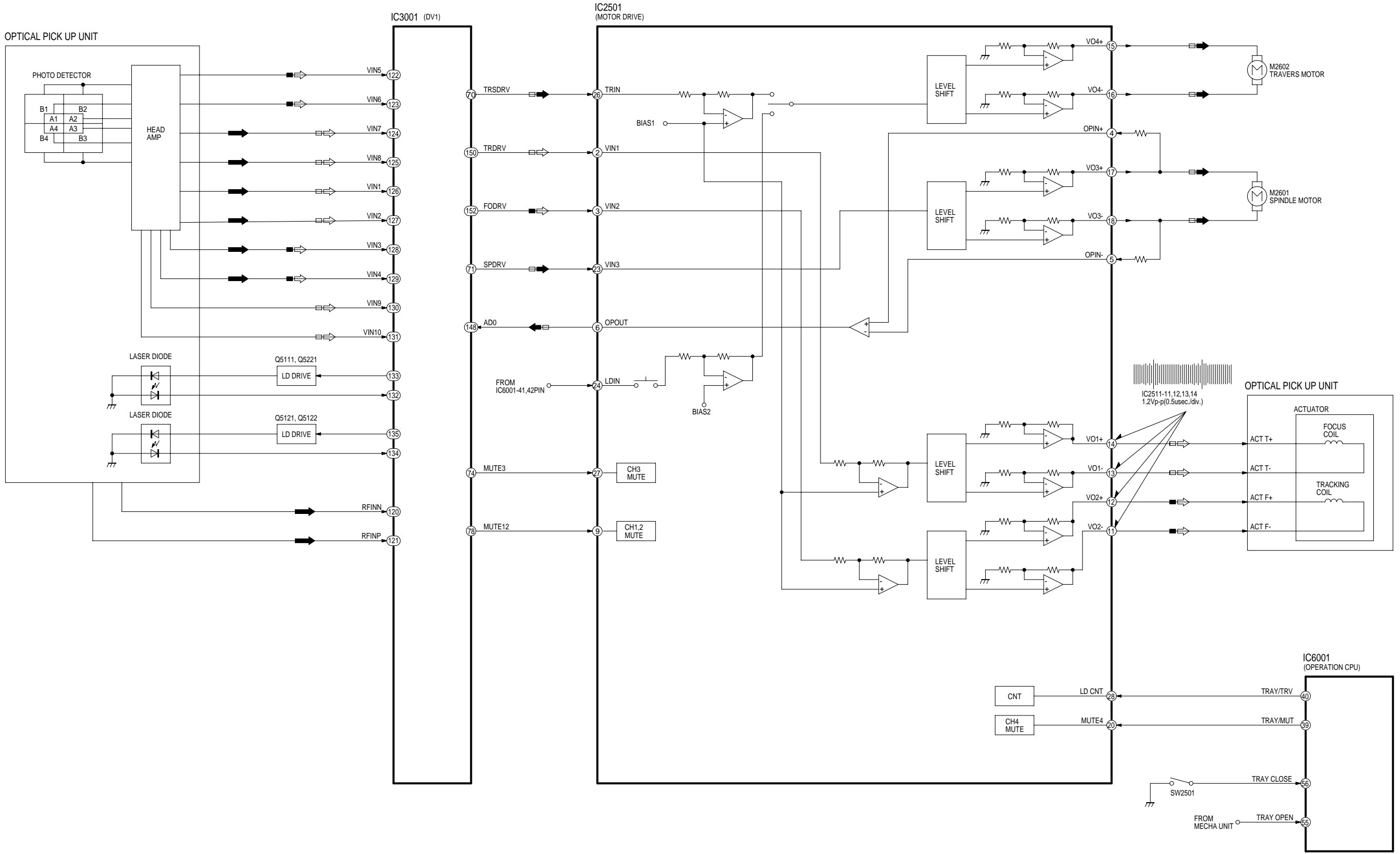
DVD-S35PLA
POWER SUPPLY BLOCK DIAGRAM

14.4 SERVO BLOCK DIAGRAM

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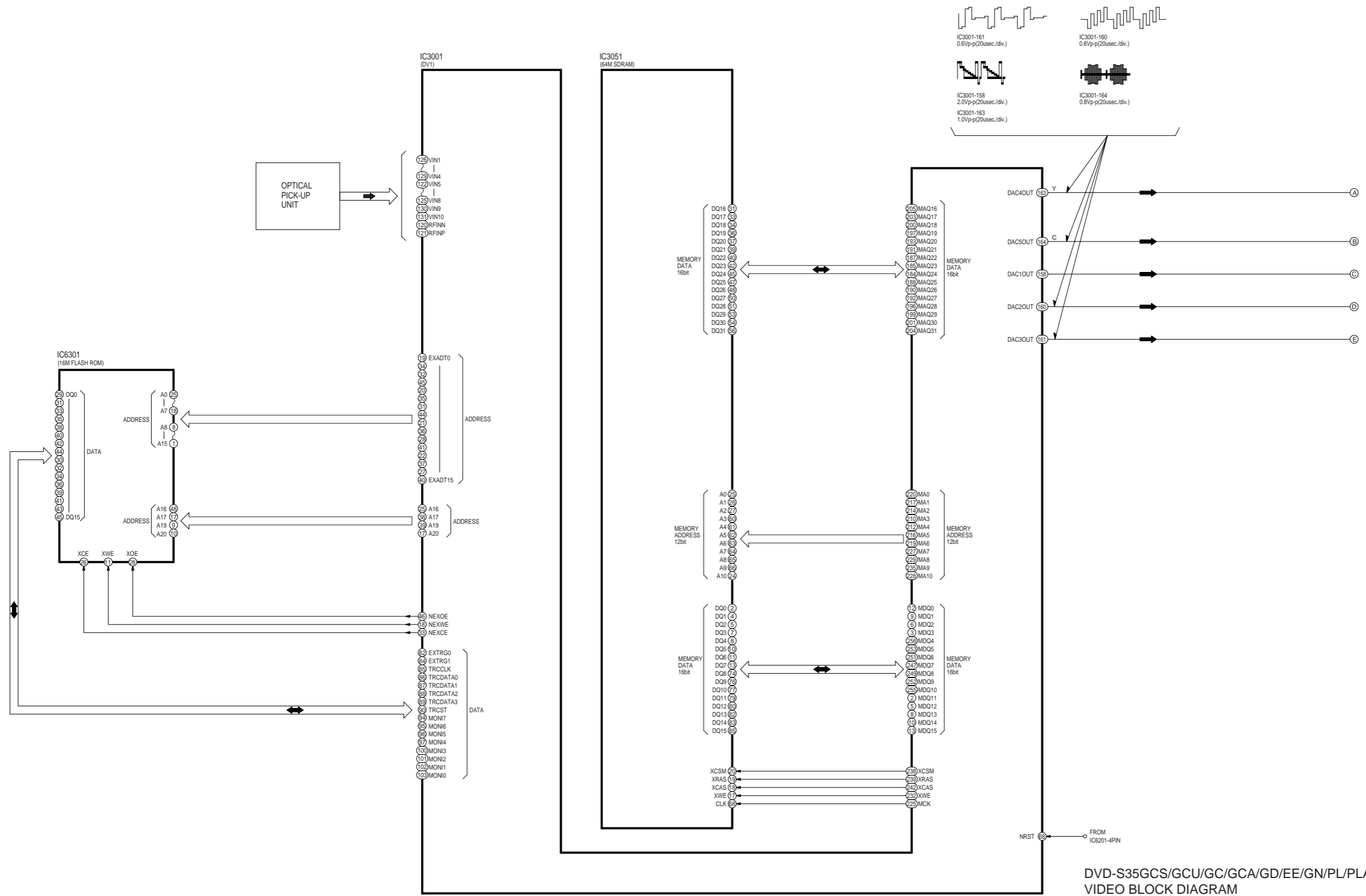
DVD-S35GCS/GCU/GC/GCA/GD/EE/GN/PL/PLA/PX SERVO BLOCK DIAGRAM

14.5 VIDEO BLOCK DIAGRAM

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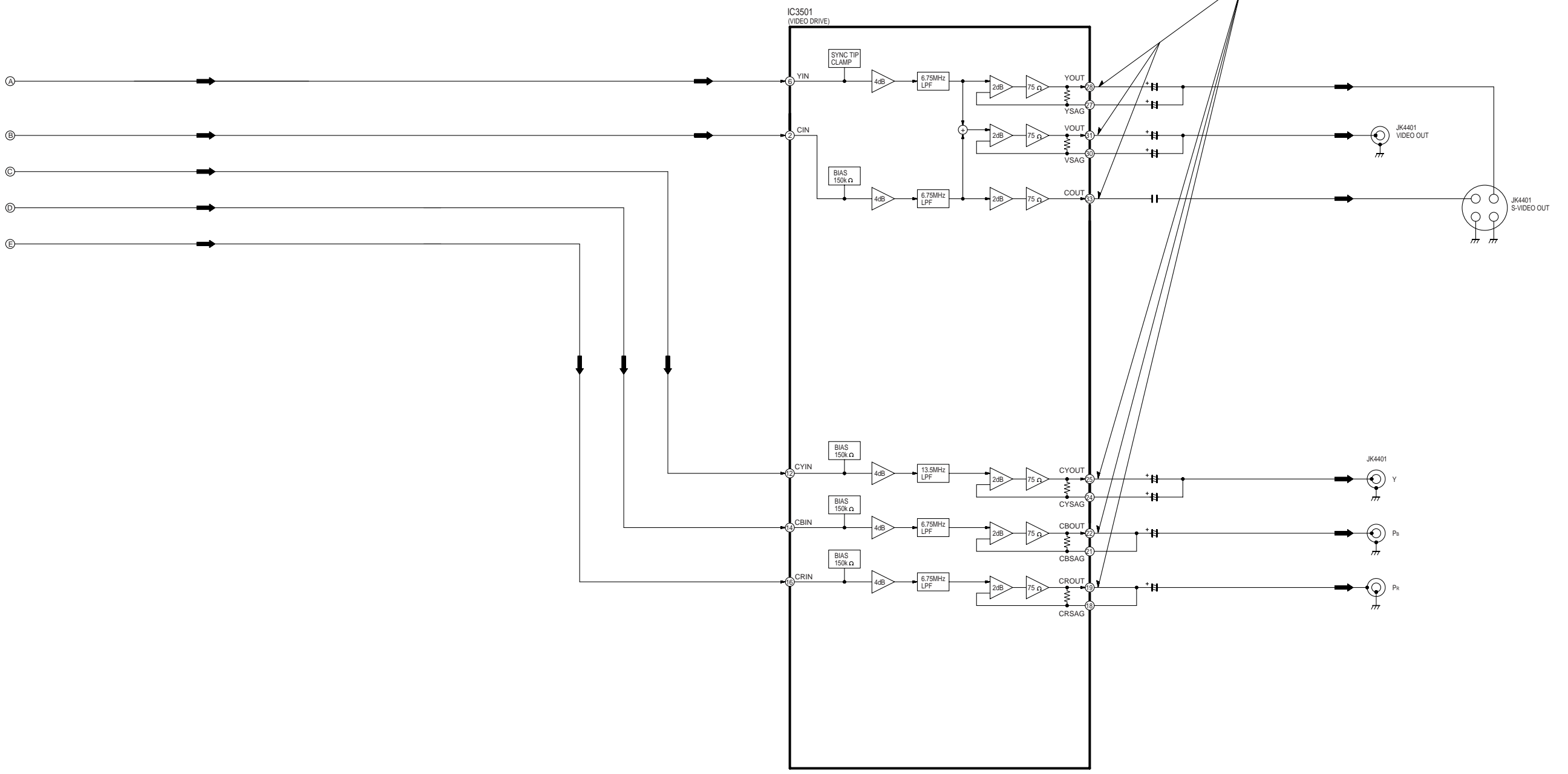


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DVD-S35GCS/GCU/GC/GCA/GD/EE/GN/PL/PLA/PX VIDEO BLOCK DIAGRAM

← MAIN SIGNAL

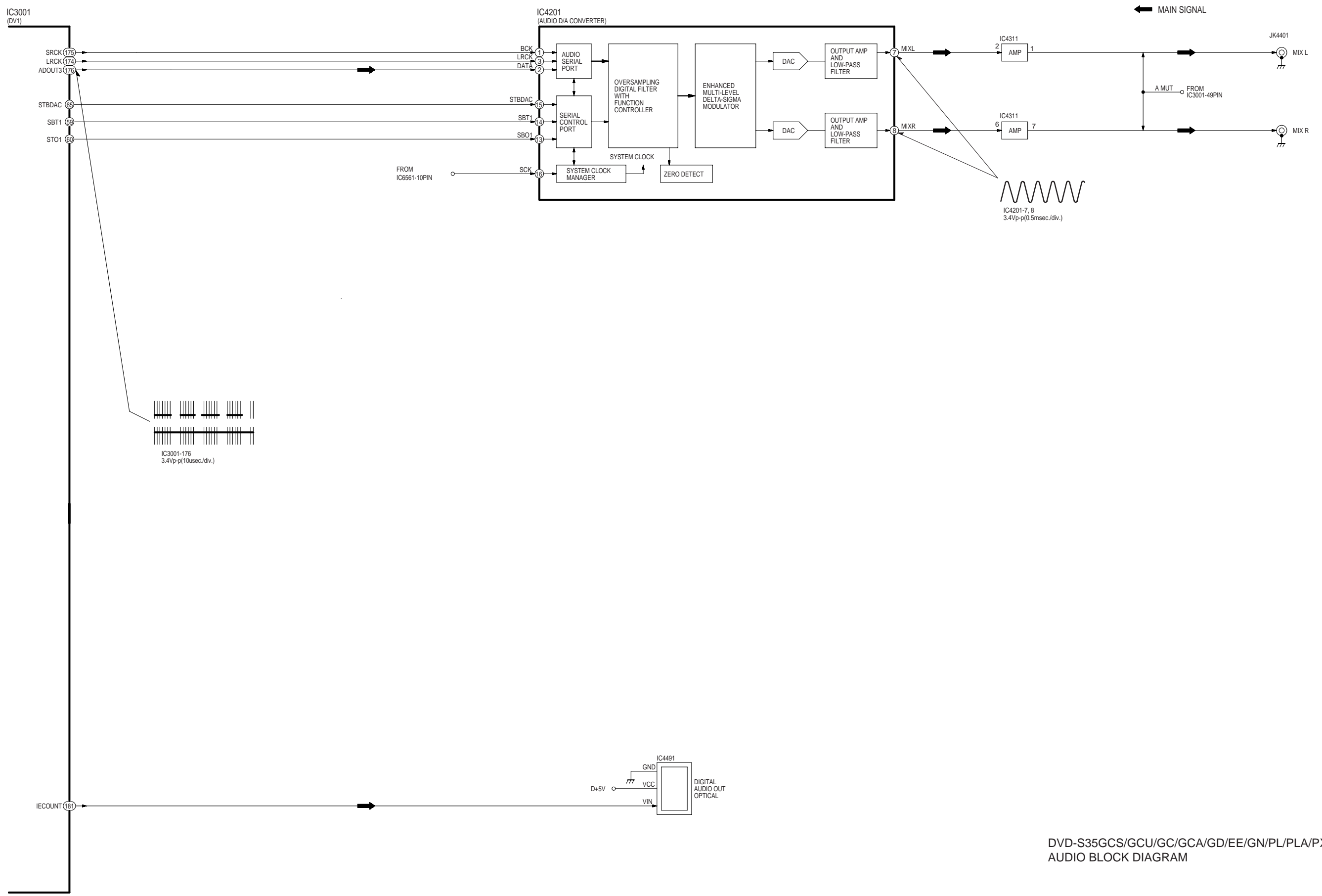


14.6 AUDIO BLOCK DIAGRAM

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DVD-S35GCS/GCU/GC/GCA/GD/EE/GN/PL/PLA/PX
AUDIO BLOCK DIAGRAM

15 INTERCONNECTION SCHEMATIC DIAGRAM & SCHEMATIC DIAGRAM NOTES

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[15.1 INTERCONNECTION SCHEMATIC DIAGRAM](#)

[15.2 SCHEMATIC DIAGRAM NOTES](#)

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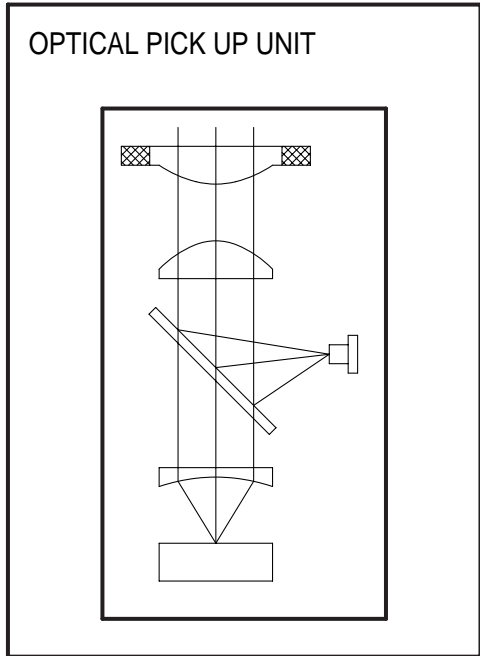
15.1 INTERCONNECTION SCHEMATIC DIAGRAM

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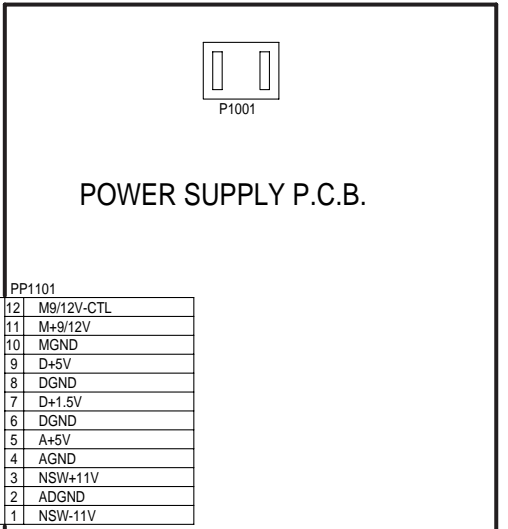
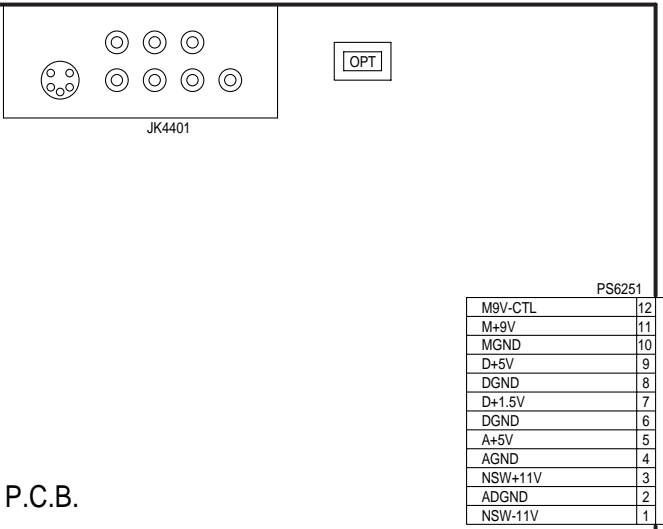


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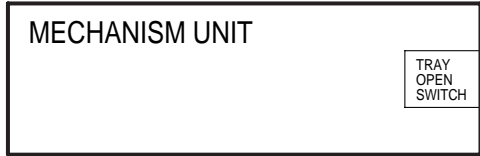


FP5101
30 T+
29 F+
28 F-
27 T-
26 3.3VHFM
25 GND
24 LD+(DVD)
23 GND
22 GND
21 RFP
20 RFN
19 F1(DVD)
18 F2(DVD)
17 GAINH/L
16 PIN(DVD)
15 VREF2.2(DVD)
14 TA(DVD)
13 TD(DVD)
12 TC(DVD)
11 TB(DVD)
10 VCC5V
9 FE1
8 GND
7 LD+(CD)
6 T1(CD)
5 VREF2.2(CD)
4 FE2(CD)
3 T2(CD)
2 PIN(CD)
1 GND



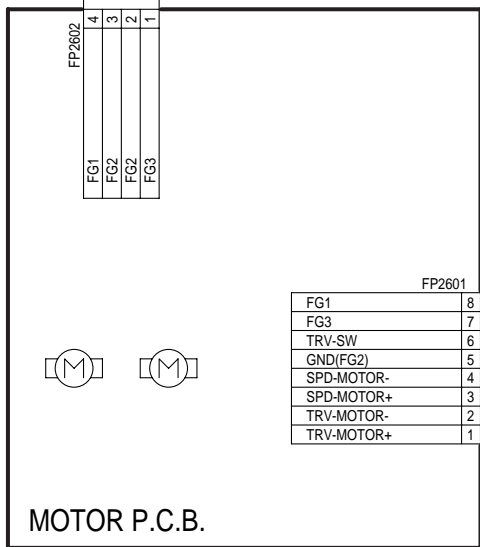
PS6251
12 M9V-CTL
11 M+9V
10 MGND
9 D+5V
8 DGND
7 D+1.5V
6 DGND
5 A+5V
4 AGND
3 NSW+11V
2 ADGND
1 NSW-11V

PP1101
12 M9/12V-CTL
11 M+9/12V
10 MGND
9 D+5V
8 DGND
7 D+1.5V
6 DGND
5 A+5V
4 AGND
3 NSW+11V
2 ADGND
1 NSW-11V

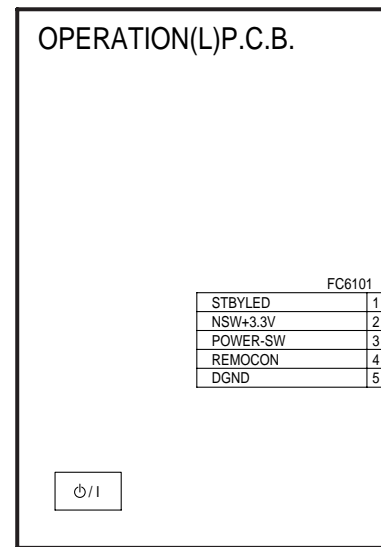


P2511
1 TRAY-SW
2 DGND

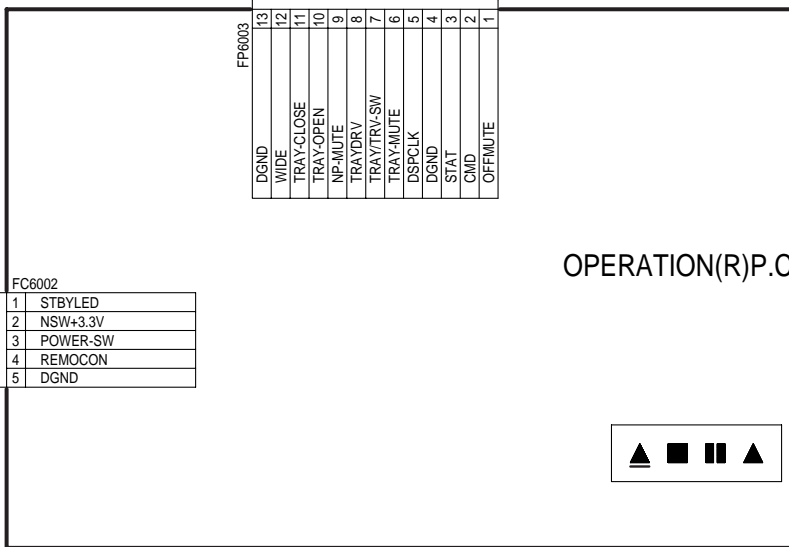
FP2501
1 FG1
2 FG3
3 TRV-SW
4 GND(FG2)
5 SPD-MOTOR-
6 SPD-MOTOR+
7 TRV-MOTOR-
8 TRV-MOTOR+



FP2601
8 FG1
7 FG3
6 TRV-SW
5 GND(FG2)
4 SPD-MOTOR-
3 SPD-MOTOR+
2 TRV-MOTOR-
1 TRV-MOTOR+



FC6101
1 STBYLED
2 NSW+3.3V
3 POWER-SW
4 REMOCON
5 DGND



FC6002
1 STBYLED
2 NSW+3.3V
3 POWER-SW
4 REMOCON
5 DGND

FP3501
1 DGND
2 WIDE
3 TRAY-CLOSE
4 TRAY-OPEN
5 NP-MUTE
6 TRAYDRV
7 TRAY/TRV-SW
8 TRAY-MUTE
9 DSPCLK
10 DGND
11 STAT
12 CMD
13 OFFMUTE

PS1102
1 FLH-
2 FLH+
3 FL-24.5V
4 NPOFF L
5 DGND
6 NSW+3.3V


PP6001
6 FLH-
5 FLH+
4 FL-24.5V
3 NPOFF L
2 DGND
1 NSW+3.3V

15.2 SCHEMATIC DIAGRAM NOTES

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This schematic diagram may be modified at any time with the development of new technology.


Important safety notice:

Components identified by  mark have special characteristics important for safety.

Furthermore, special parts which have purpose of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacture's specified parts shown in the parts list.

Important safety notice:

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

These parts are marked by  in the schematic diagrams. 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.

Caution!

IC and LSI are sensitive to static electricity.

Secondary trouble can be prevented by taking care during repair.

Cover the parts boxes made of plastics with aluminum foil.

Ground the soldering iron.

Put a conductive mat on the work table.

Do not touch the legs of IC or LSI with the fingers directly.

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16 SCHEMATIC DIAGRAM

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[16.1 POWER SUPPLY SCHEMATIC DIAGRAM \(DVD-S35GCS/GCU/GC/GCA/GD/PL/PX\)](#)

[16.2 POWER SUPPLY SCHEMATIC DIAGRAM \(DVD-S35EE/GN\)](#)

[16.3 POWER SUPPLY SCHEMATIC DIAGRAM \(DVD-S35PLA\)](#)

[16.4 PRE SECTION \(MAIN P.C.B. \(1/3\)\) SCHEMATIC DIAGRAM \(DVD-S35GCS/GCU/GC/GCA/GD/EE/GN/PL/PLA\)](#)

[16.5 DV1 SECTION \(MAIN P.C.B. \(2/3\)\) SCHEMATIC DIAGRAM \(DVD-S35GCS/GCU/GC/GCA/GD/EE/GN/PL/PLA\)](#)

[16.6 AUDIO/VIDEO SECTION \(MAIN P.C.B. \(3/3\)\) SCHEMATIC DIAGRAM \(DVD-S35GCS/GCU/GC/GCA/GD/EE/GN/PL/PLA\)](#)

[16.7 PRE SECTION \(MAIN P.C.B. \(1/3\)\) SCHEMATIC DIAGRAM \(DVD-S35PX\)](#)

[16.8 DV1 SECTION \(MAIN P.C.B. \(2/3\)\) SCHEMATIC DIAGRAM \(DVD-S31PX\)](#)

[16.9 AUDIO/VIDEO SECTION \(MAIN P.C.B. \(3/3\)\) SCHEMATIC DIAGRAM \(DVD-S35PX\)](#)

[16.10 MOTOR SCHEMATIC DIAGRAM](#)

[16.11 OPERATION SCHEMATIC DIAGRAM](#)

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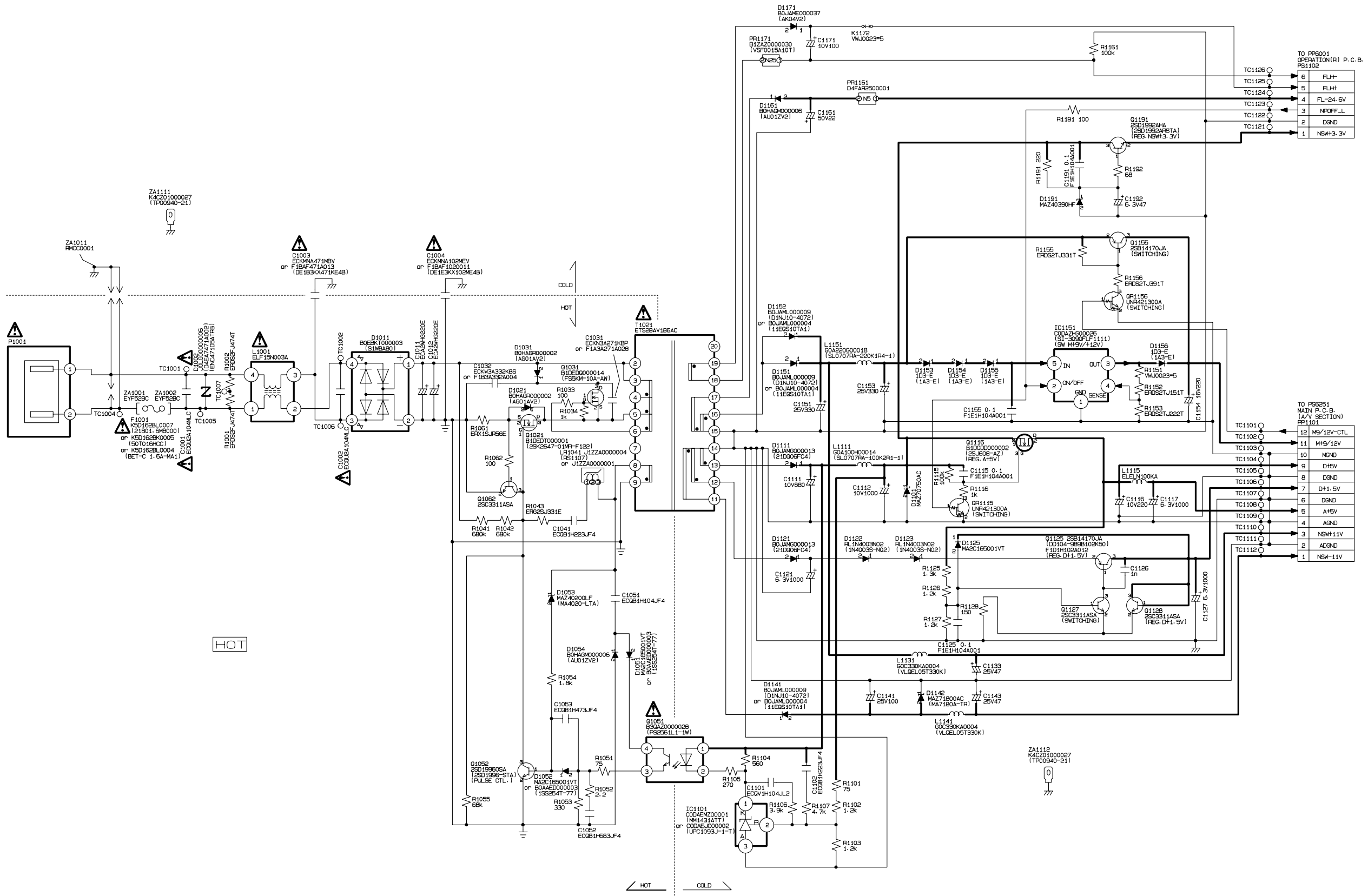
16.1 POWER SUPPLY SCHEMATIC DIAGRAM (DVD-S35GCS/GCU/GC/GCA/GD/PL/PX)

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TO P06001
OPERATION (R) P.C.B.
PS1102

TC1126	6	FLH+
TC1125	5	FLH-
TC1124	4	FL-24.6V
TC1123	3	NPOFF_L
TC1122	2	DGND
TC1121	1	NSW+3.3V

TO P06251
MAIN P.C.B.
(A/V SECTION)
PP1101

TC1104	12	M8/12V-CTL
TC1102	11	M8/12V
TC1103	10	MSND
TC1104	9	DHSV
TC1105	8	DGND
TC1106	7	D+1.5V
TC1107	6	DGND
TC1108	5	AHSV
TC1109	4	AGND
TC1110	3	NSW+11V
TC1111	2	ADGND
TC1112	1	NSW-11V

DVD-S35GCS/GCU/GC/GCA/GD/PL/PX
POWER SUPPLY SCHEMATIC DIAGRAM

1 2 3 4 5 6 7 8 9 10 11 12

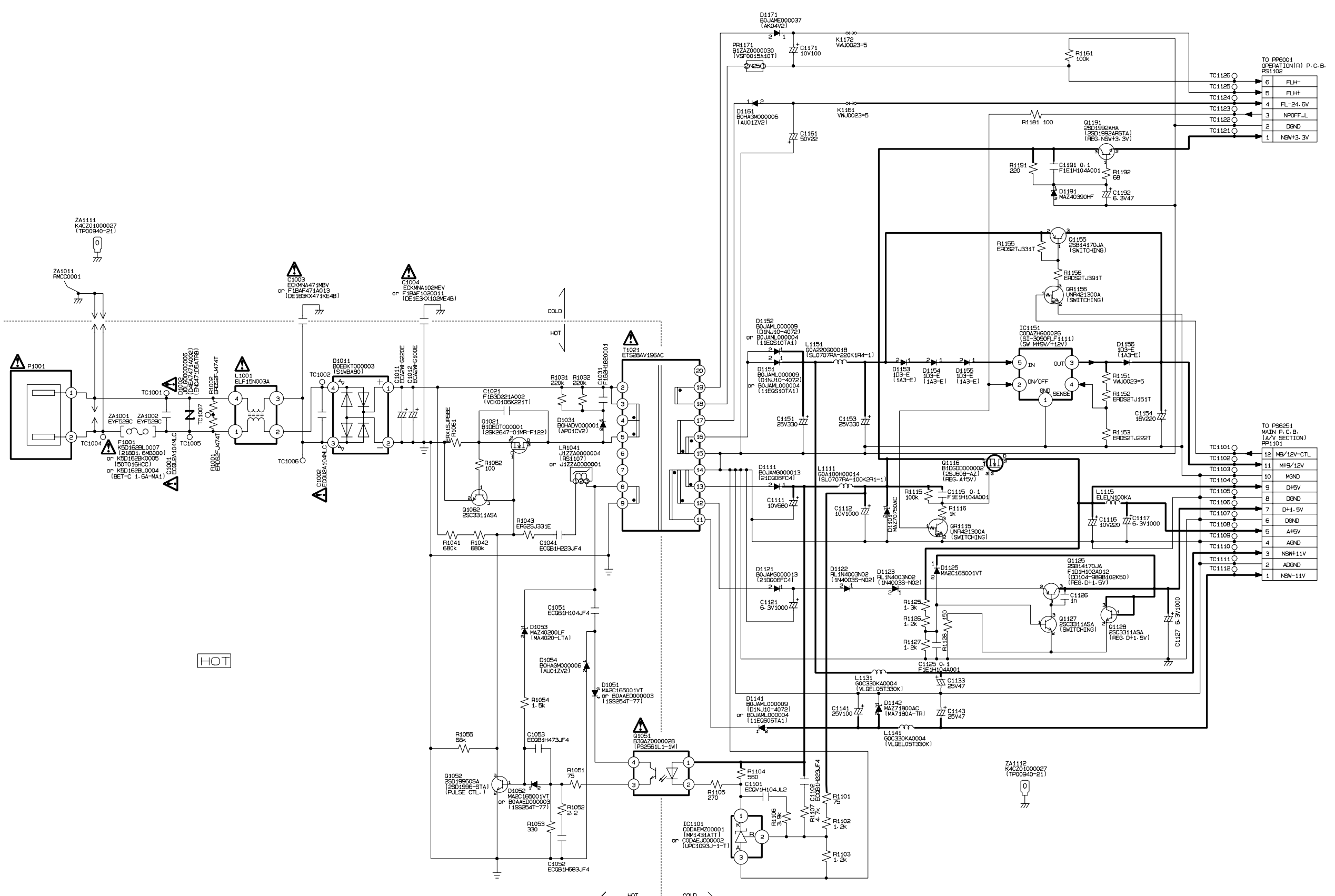
16.2 POWER SUPPLY SCHEMATIC DIAGRAM (DVD-S35EE/GN)

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TO P06001
OPERATION (R) P.C.B.
PS1102

TC1126	6	FLH+
TC1125	5	FLH-
TC1124	4	FL-24.6V
TC1123	3	NPOFF-L
TC1122	2	DGN
TC1121	1	NSW+3.3V

TO P06251
MAIN P.C.B.
(A/V SECTION)
FP1101

TC1101	12	M9/12V-CTL
TC1102	11	M9/12V
TC1103	10	M9ND
TC1104	9	DHSV
TC1105	8	DGN
TC1106	7	D+1.5V
TC1107	6	DGN
TC1108	5	A+5V
TC1109	4	AGND
TC1110	3	NSW+11V
TC1111	2	AGND
TC1112	1	NSW-11V

DVD-S35EE/GN
POWER SUPPLY SCHEMATIC DIAGRAM

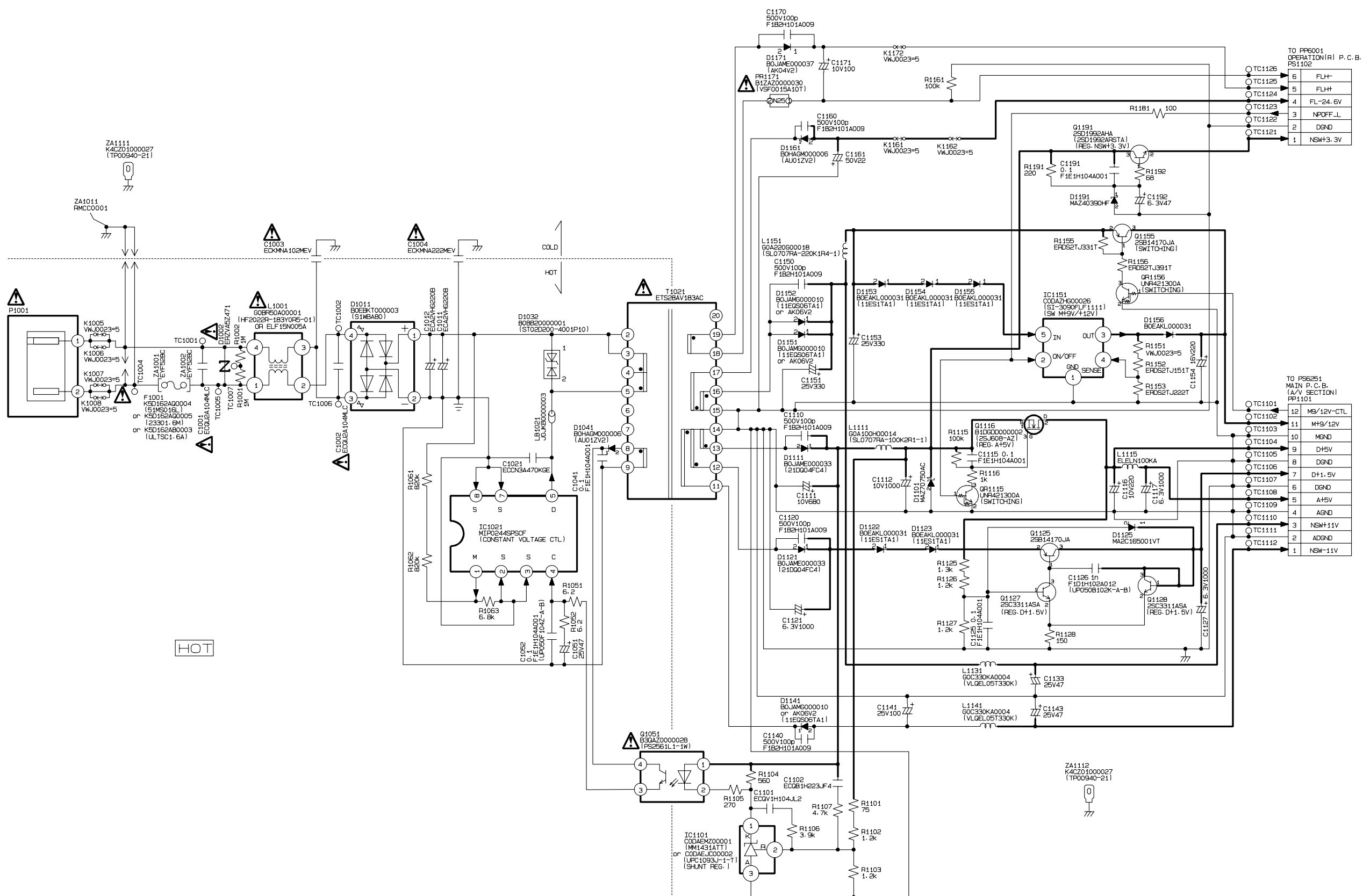
1 2 3 4 5 6 7 8 9 10 11 12

16.3 POWER SUPPLY SCHEMATIC DIAGRAM (DVD-S35PLA)

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TO PP6001
OPERATION(R) P.C.B.
PS1102

TC1126	6	FLH+
TC1125	5	FLH-
TC1124	4	FL-24.6V
TC1123	3	NPOFF_L
TC1122	2	DGND
TC1121	1	NSW+3.3V

TO PS6251
MAIN P.C.B.
(A/V SECTION)
PP1101

TC1101	12	M5/12V-CTL
TC1102	11	M9/12V
TC1103	10	MGND
TC1104	9	DH5V
TC1105	8	DGND
TC1106	7	D+1.5V
TC1107	6	DGND
TC1108	5	A+5V
TC1109	4	AGND
TC1110	3	NSW+11V
TC1111	2	ADGND
TC1112	1	NSW-11V

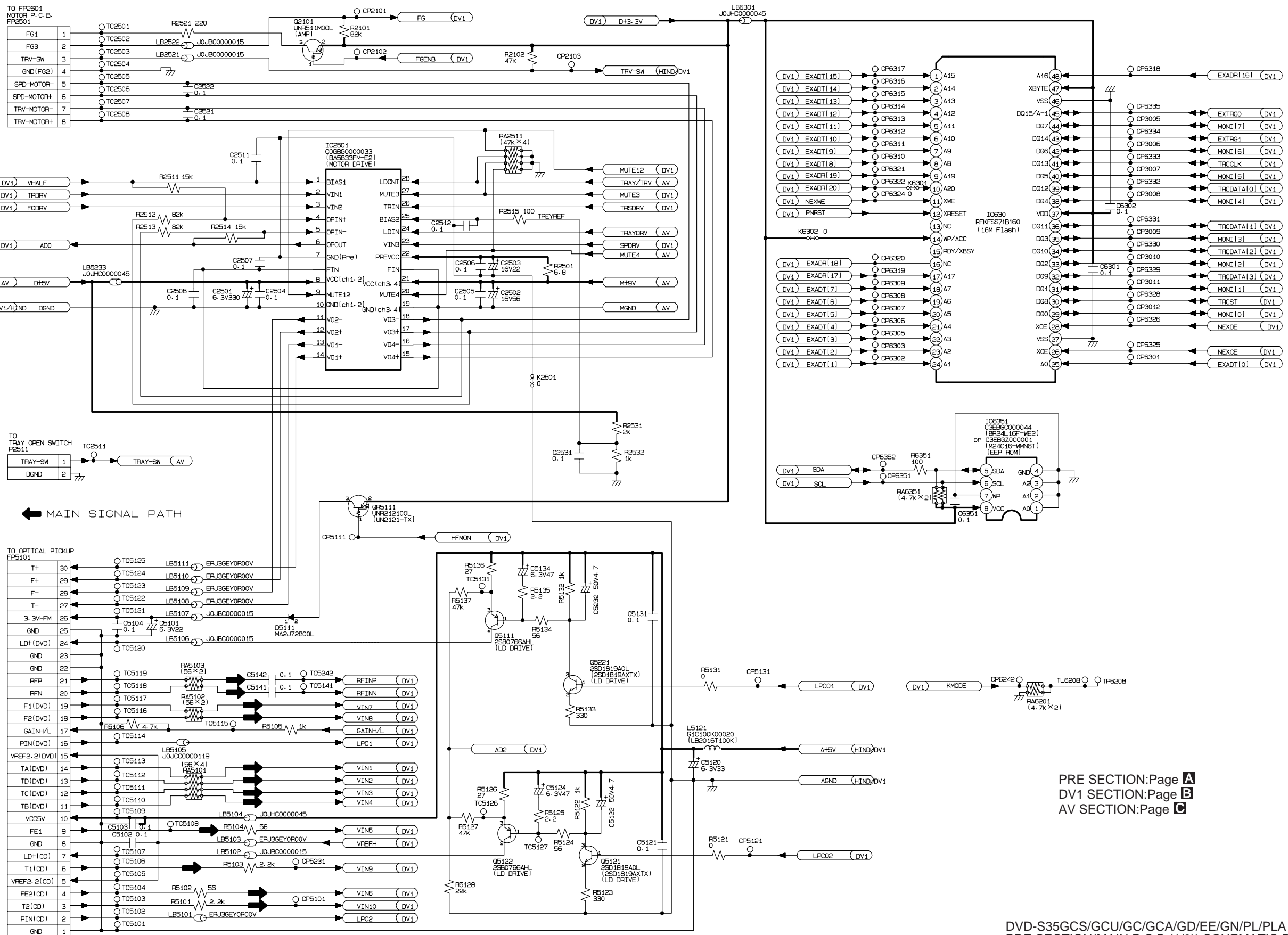
DVD-S35PLA
POWER SUPPLY
SCHEMATIC DIAGRAM

16.4 PRE SECTION (MAIN P.C.B. (1/3)) SCHEMATIC DIAGRAM (DVD-S35GCS/GCU/GC/ GCA/GD/EE/GN/PL/PLA)

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DV1 SECTION:Page B
AV SECTION:Page C

DVD-S35GCS/GCU/GC/GCA/GD/EE/GN/PL/PLA
PRE SECTION(MAIN P.C.B.(1/3)) SCHEMATIC DIAGRAM

16.5 DV1 SECTION (MAIN P.C.B. (2/3)) SCHEMATIC DIAGRAM (DVD-S35GCS/GCU/GC/ GCA/GD/EE/GN/PL/PLA)

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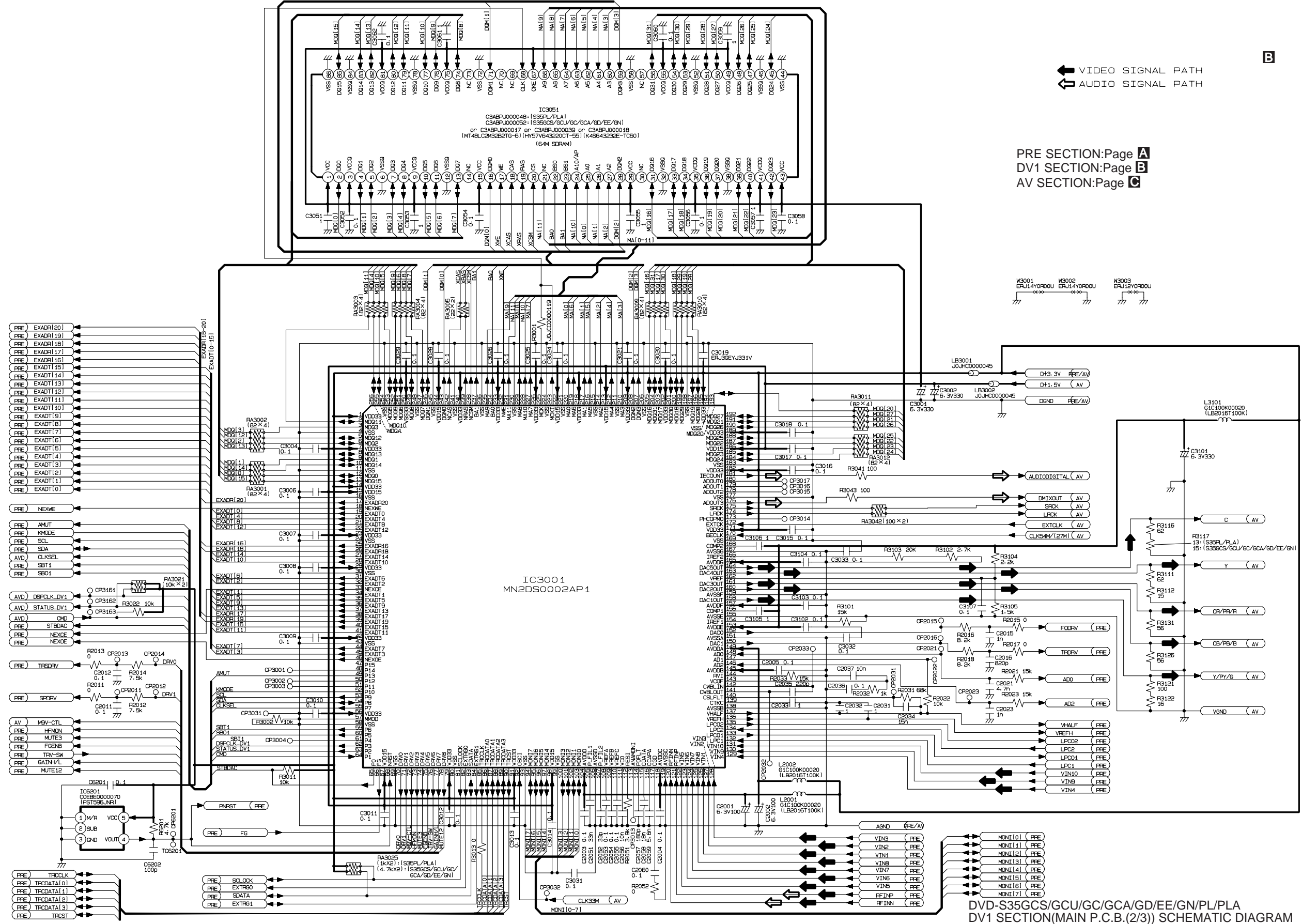
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B

← VIDEO SIGNAL PATH
← AUDIO SIGNAL PATH

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DV1 SECTION:Page **B**
AV SECTION:Page **C**



DVD-S35GCS/GCU/GC/GCA/GD/EE/GN/PL/PLA
DV1 SECTION(MAIN P.C.B.(2/3)) SCHEMATIC DIAGRAM

16.6 AUDIO/VIDEO SECTION (MAIN P.C.B. (3/3)) SCHEMATIC DIAGRAM (DVD-S35GCS/GCU/GC/ GCA/GD/EE/GN/PL/PLA)

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TO FP6003
OPERATION (R) P.C.B.
FP3501

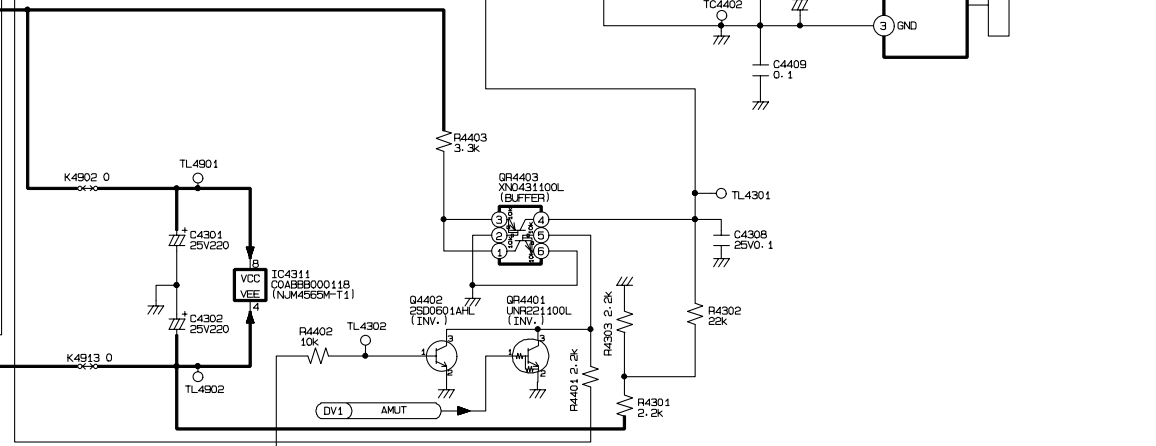
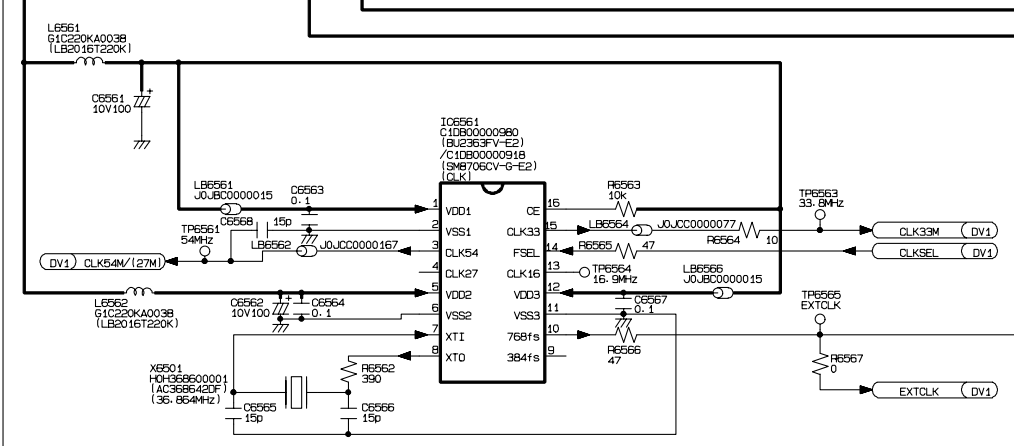
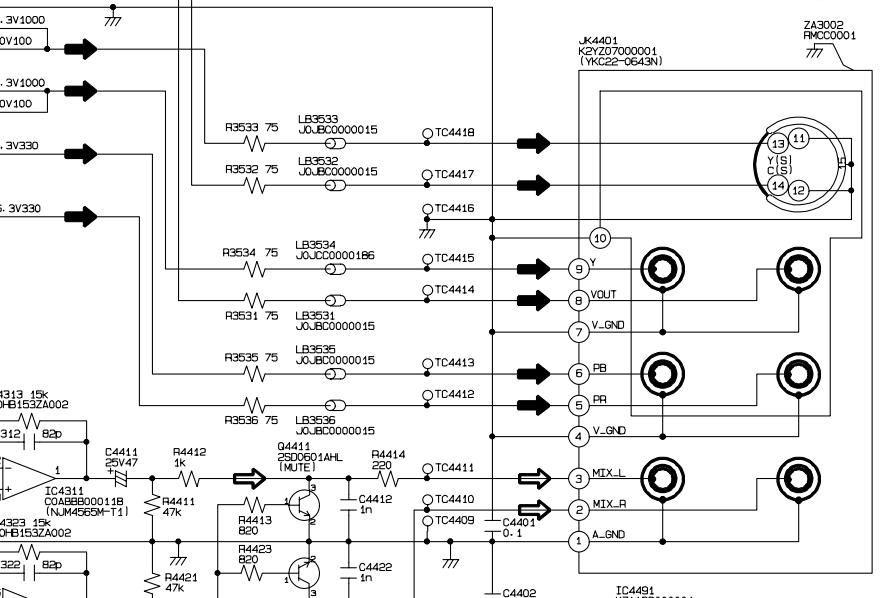
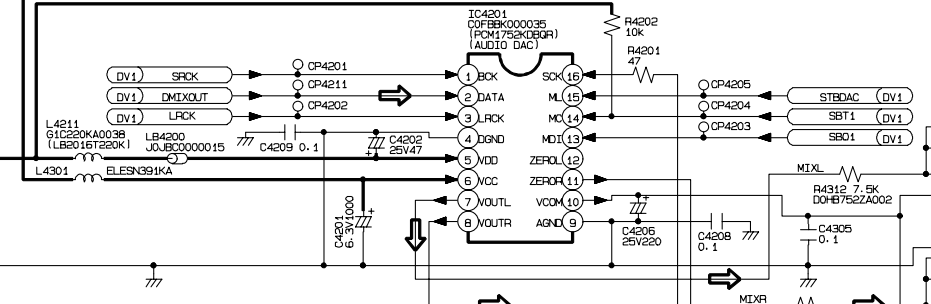
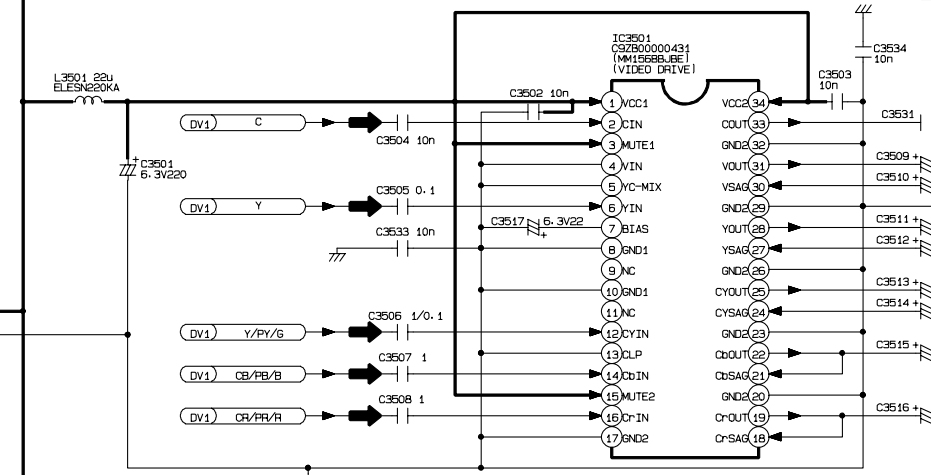
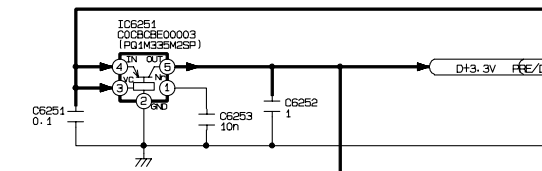
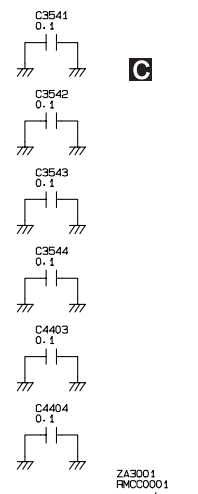
DGND	1	TC3516	LB3514	J0JBC0000015	
WIDE	2	TC3515	LB3513	J0JBC0000015	TRV-SM (PRE)
TRAY-CLOSE	3	TC3514	LB3512	J0JBC0000015	TRAY-SM (PRE)
TRAY-OPEN	4	TC3513			
NP-MUTE	5	TC3512	LB3511	J0JBC0000015	TRAYDRV (PRE)
TRAYDRV	6	TC3510	LB3509	J0JBC0000015	TRAY/TRV (PRE)
TRAY/TRV-SM	7	TC3509	LB3508	J0JBC0000015	MUTE4 (PRE)
TRAY-MUTE	8	TC3508	LB3507	ERJ3GEYJ101V	DSPCLK_DV1 (DV1)
DSPCLK	9	TC3507			
DGND	10	TC3506	LB3505	ERJ3GEYJ101V	STATUS_DV1 (DV1)
STAT	11	TC3505	LB3505	ERJ3GEYJ101V	CMD (DV1)
CMD	12				
OFFMUTE	13				

TO PP1101
POWER SUPPLY P.C.B.
PS6251

MSV-CTL	12	TC6250	LB6251	J0JCC00000119	MSV-CTL (DV1)
MHV	11	TC6251	FL6251	F1JIE1040022	MHV (PRE)
MSND	10	TC6252			MSND (PRE)
DHV	9	TC6253	FL6252	F1H0J105001B	DHV (PRE)
DGND	8	TC6254			DGND (PRE)
D+1.5V	7	TC6255	FL6253	F1H0J105001B	D+1.5V (DV1)
DGND	6	TC6256	FL6254	F1H0J105001B	DGND (DV1)
AHV	5	TC6257			AHV (PRE/DV)
AGND	4	TC6258			AGND (PRE/DV)
NSW+11V	3	TC6259			
ADGND	2	TC6260			
NSW-11V	1				

VIDEO SIGNAL PATH
AUDIO SIGNAL PATH

PRE SECTION:Page A
DV1 SECTION:Page B
AV SECTION:Page C



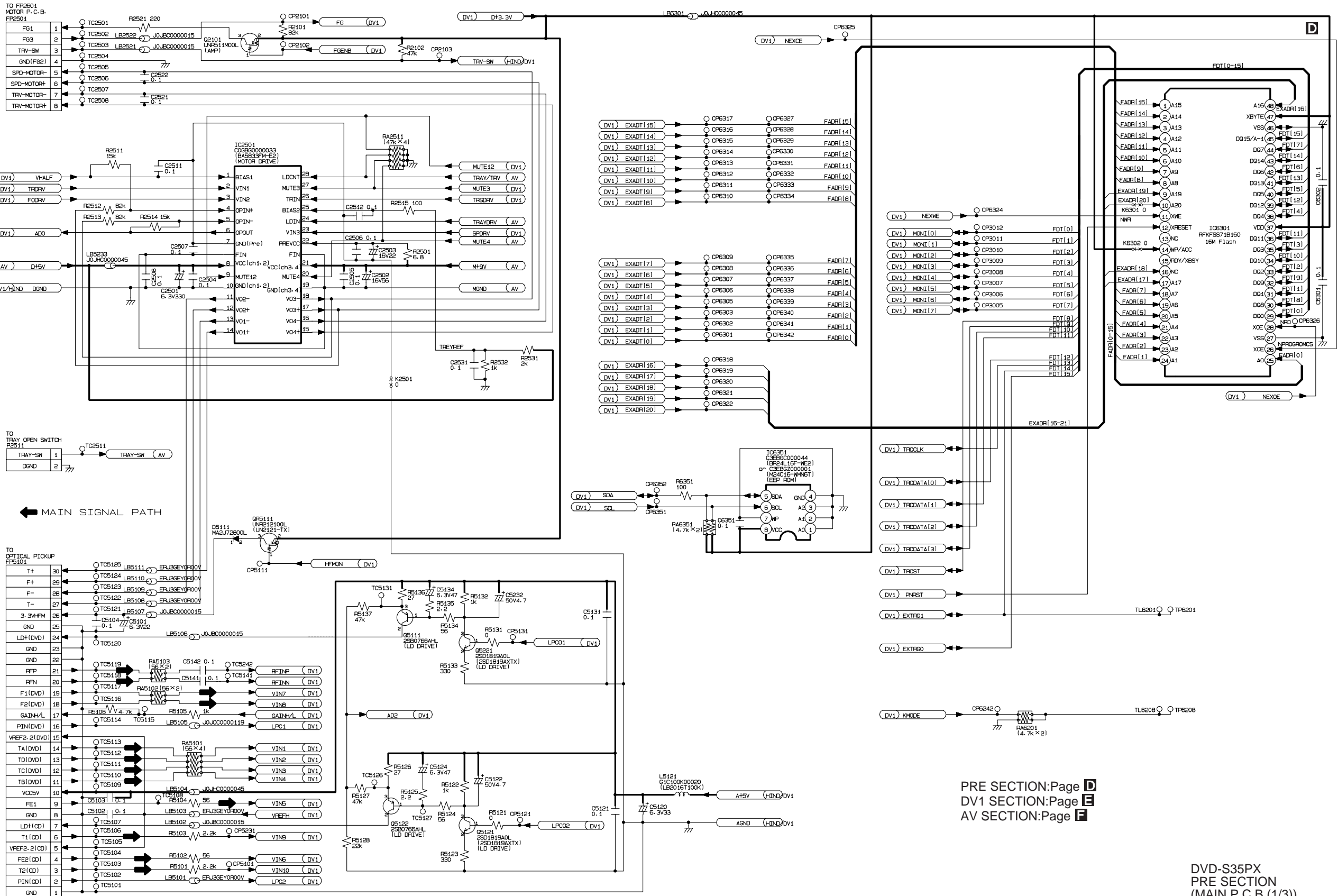
DVD-S35GCS/GCU/GC/GCA/GD/EE/GN/PL/PLA
AV SECTION(MAIN P.C.B.(3/3)) SCHEMATIC DIAGRAM

16.7 PRE SECTION (MAIN P.C.B. (1/3)) SCHEMATIC DIAGRAM (DVD-S35PX)

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PRE SECTION:Page **D**
 DV1 SECTION:Page **E**
 AV SECTION:Page **F**

DVD-S35PX
 PRE SECTION
 (MAIN P.C.B.(1/3))
 SCHEMATIC DIAGRAM

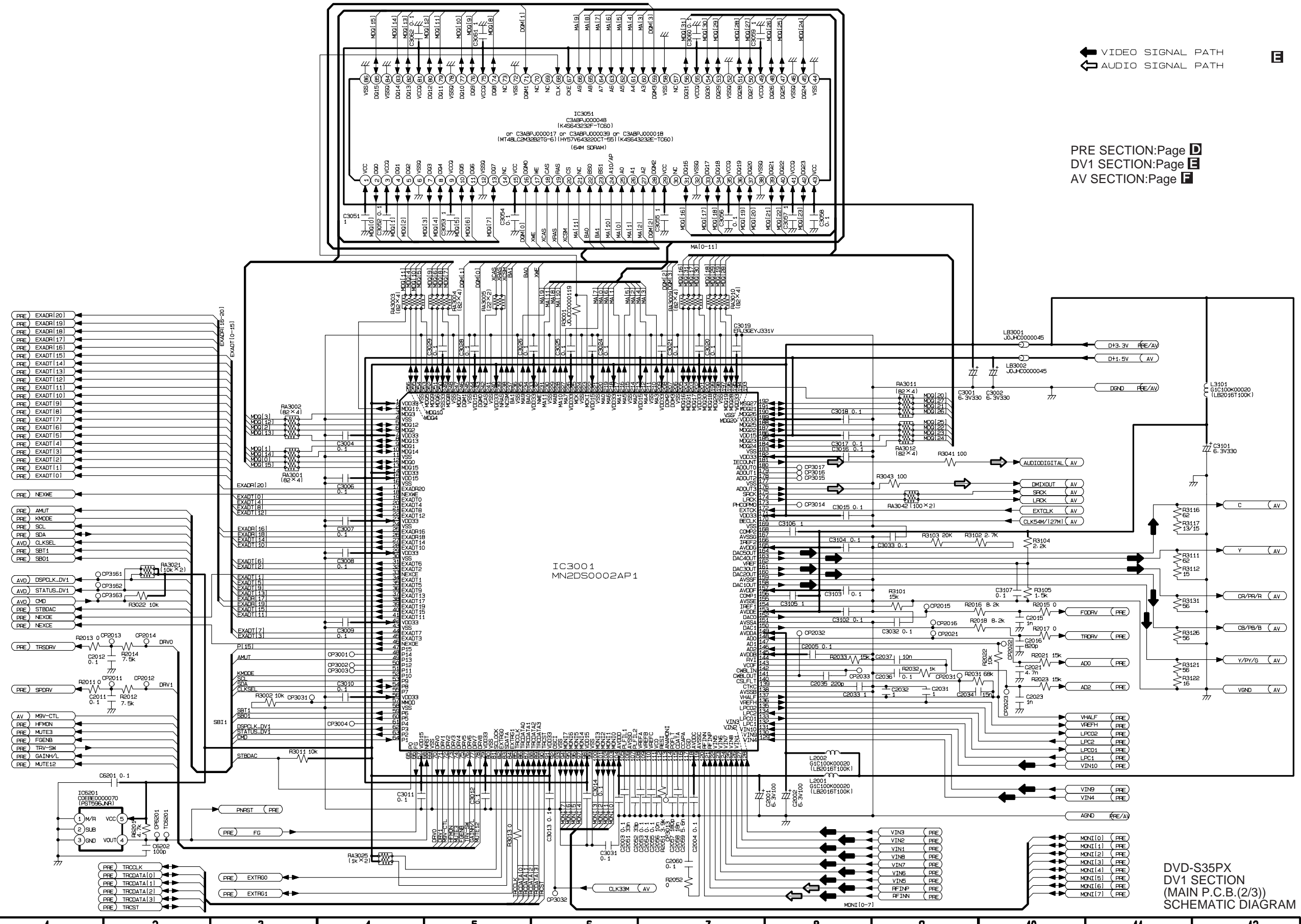
16.8 DV1 SECTION (MAIN P.C.B. (2/3)) SCHEMATIC DIAGRAM (DVD-S31PX)

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A



↖ VIDEO SIGNAL PATH
↗ AUDIO SIGNAL PATH

PRE SECTION:Page D
DV1 SECTION:Page E
AV SECTION:Page F

DVD-S35PX
DV1 SECTION
(MAIN P.C.B.(2/3))
SCHEMATIC DIAGRAM



1 2 3 4 5 6 7 8 9 10 11 12

16.9 AUDIO/VIDEO SECTION (MAIN P.C.B. (3/3)) SCHEMATIC DIAGRAM (DVD-S35PX)

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 VIDEO SIGNAL PATH
 AUDIO SIGNAL PATH

TO FP6003 OPERATION (R) P.C.B. FP3501

DGND	1	TC3516	LB3514	J0UBC0000015	
WIDE	2	TC3515	LB3513	J0UBC0000015	
TRAY-CLOSE	3	TC3514	LB3512	J0UBC0000015	TRV-SW (PRE)
TRAY-OPEN	4	TC3513	LB3511	J0UBC0000015	TRAY-SW (PRE)
NP-MUTE	5	TC3512	LB3510	J0UBC0000015	TRAYDRV (PRE)
TRAYDRV	6	TC3510	LB3509	J0UBC0000015	TRAY/TRV (PRE)
TRAY/TRV-SW	7	TC3509	LB3508	J0UBC0000015	MUTE4 (PRE)
TRAY-MUTE	8	TC3508	LB3507	ERJ3GEYJ101V	DSPCLK.DV1 (DV1)
DSPCLK	9	TC3507	LB3506	ERJ3GEYJ101V	STATUS.DV1 (DV1)
DGND	10	TC3506	LB3505	ERJ3GEYJ101V	CMD (DV1)
STAT	11	TC3505			
CMD	12				
OFFMUTE	13				

TO PP1101 POWER SUPPLY P.C.B. P35251

MGV-CTL	12	TC6250	LB6251	J0JCC0000119	MGV-CTL (DV1)
M19V	11	TC6251	FL6251	F1J1E1040022	M19V (PRE)
M2ND	10	TC6252			M2ND (PRE)
DH5V	9	TC6253	FL6252	F1HQJ1050018	DH5V (PRE)
DGND	8	TC6254	FL6253	F1HQJ1050018	DGND (PRE)
DH1.5V	7	TC6255			DH1.5V (DV1)
DGND	6	TC6256	FL6254	F1HQJ1050018	DGND (DV1)
AH5V	5	TC6257			AH5V (PRE/DV1)
AGND	4	TC6258			AGND (PRE/DV1)
NSW+11V	3	TC6259			
ADGND	2	TC6260			
NSW-11V	1				

PRE SECTION:Page **D**
 DV1 SECTION:Page **E**
 AV SECTION:Page **F**

C3541 0.1
 C3542 0.1
 C3543 0.1
 C3544 0.1

C4403 0.1

C4404 0.1

ZA3001 FMCC0001

ZA3002 FMCC0001

C4401 0.1

C4402 0.1

C4403 0.1

C4404 0.1

C4405 0.1

C4406 0.1

C4407 0.1

C4408 0.1

C4409 0.1

C4410 0.1

C4411 0.1

C4412 0.1

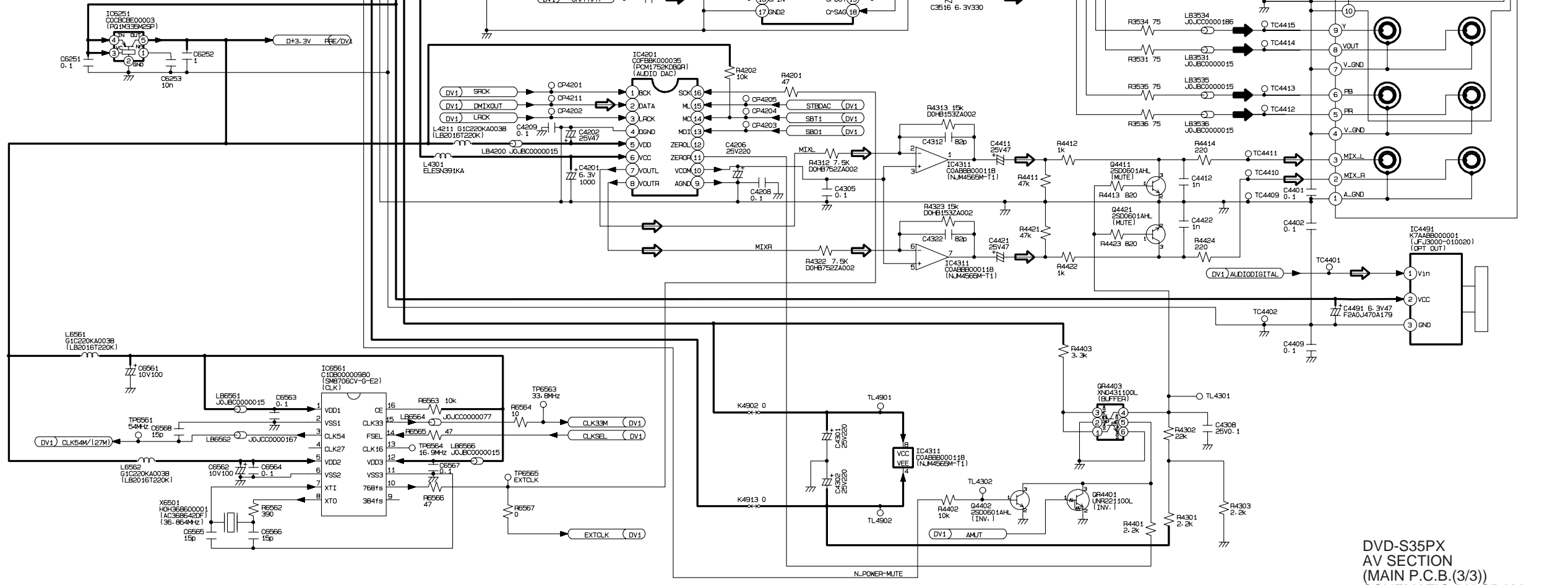
C4413 0.1

C4414 0.1

C4415 0.1

C4416 0.1

DVD-S35PX
 AV SECTION
 (MAIN P.C.B.(3/3))
 SCHEMATIC DIAGRAM



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G
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E
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A

1 2 3 4 5 6 7 8 9 10 11 12

16.10 MOTOR SCHEMATIC DIAGRAM

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G

F

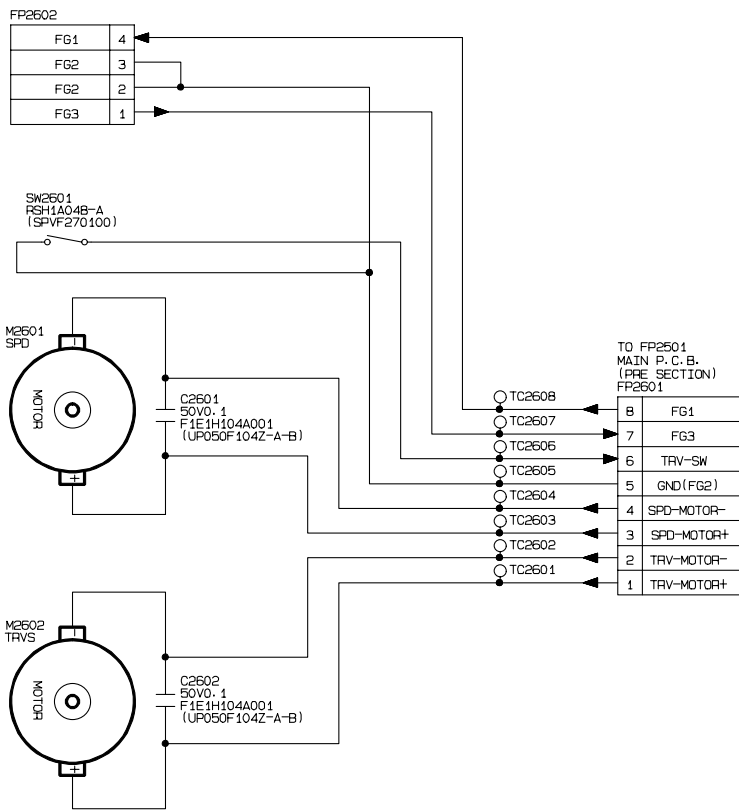
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16.11 OPERATION SCHEMATIC DIAGRAM

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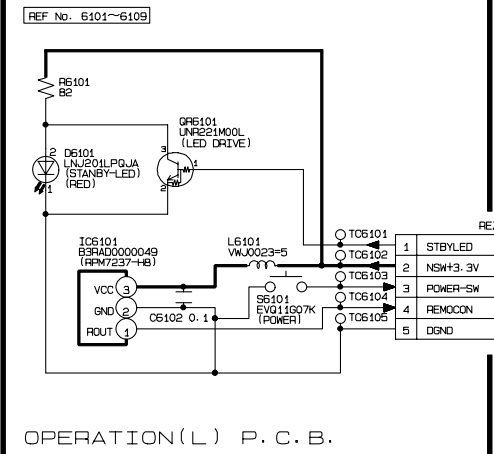
REF. No. 6001~6099

TO PS1102
POWER SUPPLY P.C.B.
PPE001

FLH-	6	TC6006
FLH+	5	TC6005
FL-24.6V	4	TC6004
NRGFF-L	3	TC6003
DGND	2	TC6002
NSW+3.3V	1	TC6001

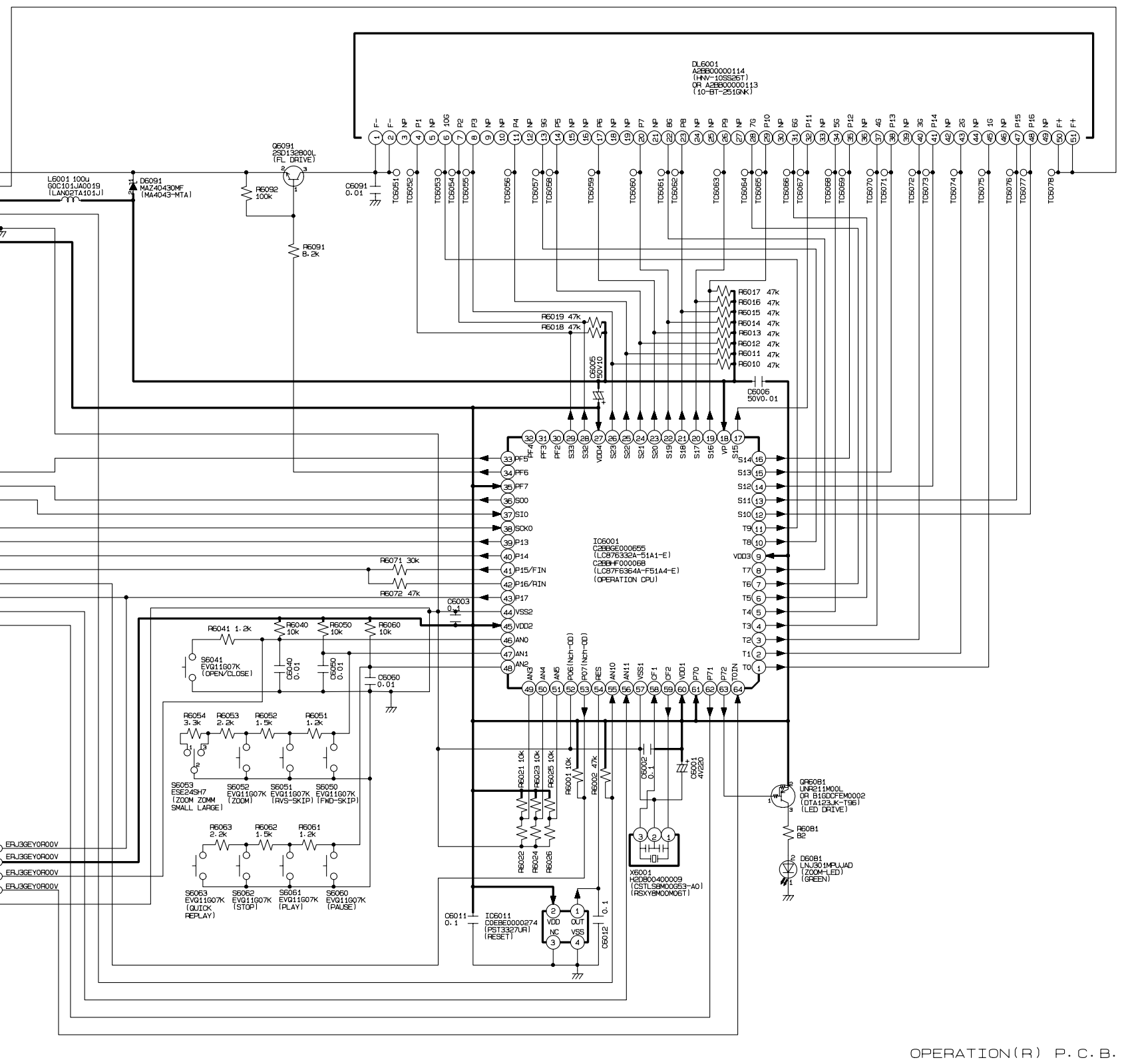
TO FP3501
MAIN P.C.B.
(A/V SECTION)
FP6003

OFFMUTE	1	TC6024
CMD	2	TC6025
STAT	3	TC6026
DGND	4	TC6027
DSPCLK	5	TC6028
TRAY-MUTE	6	TC6029
TRAY/TRV-SW	7	TC6030
TRAYDRV	8	TC6031
NP-MUTE	9	TC6032
TRAY-OPEN	10	TC6033
TRAY-CLOSE	11	TC6034
WIDE	12	TC6035
DGND	13	TC6036



REZ1529
FC6002

STBYLED	1	TC6011
NSW+3.3V	2	TC6012
POWER-SW	3	TC6013
REMOCON	4	TC6014
DGND	5	TC6015



DL6001
A28800000114
(HW-10SS2ET)
OR A28800000113
(10-BT-251GNK)

IC6001
C2886000655
(L0876332A-51A1-E)
C388-F000068
(L0876334A-F51A4-E)
(OPERATION CPU)

17 PRINT CIRCUIT BOARD

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[17.1 POWER SUPPLY P.C.B. \(DVD-S35GCS/GCU/GC/GCA/GD/PL/PX\)](#)

[17.2 POWER SUPPLY P..B. \(DVD-S35EE/GN\)](#)

[17.3 POWER SUPPLY P.C.B. \(DVD-S35PLA\)](#)

[17.4 MAIN P.C.B. \(1/2\) \(COMPONENT SIDE\) \(DVD-S35GCS/GCU/GC/GCA/GD/EE/GN/PL/PLA\)](#)

[17.5 MAIN P.C.B. \(2/2\) \(FOIL SIDE\) \(DVD-S35GCS/GCU/GC/GCA/GD/EE/GN/PL/PLA\)](#)

[17.6 MAIN P.C.B. ADDRESS INFORMATION](#)

[17.7 MAIN P.C.B. \(1/2\) \(COMPONENT SIDE\) \(DVD-S35PX\)](#)

[17.8 MAIN P.C.B. \(2/2\) \(FOIL SIDE\) \(DVD-S35PX\)](#)

[17.9 MOTOR P.C.B.](#)

[17.10 OPERATION P.C.B.](#)

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17.1 POWER SUPPLY P.C.B. (DVD-S35GCS/GCU/GC/GCA/GD/PL/PX)

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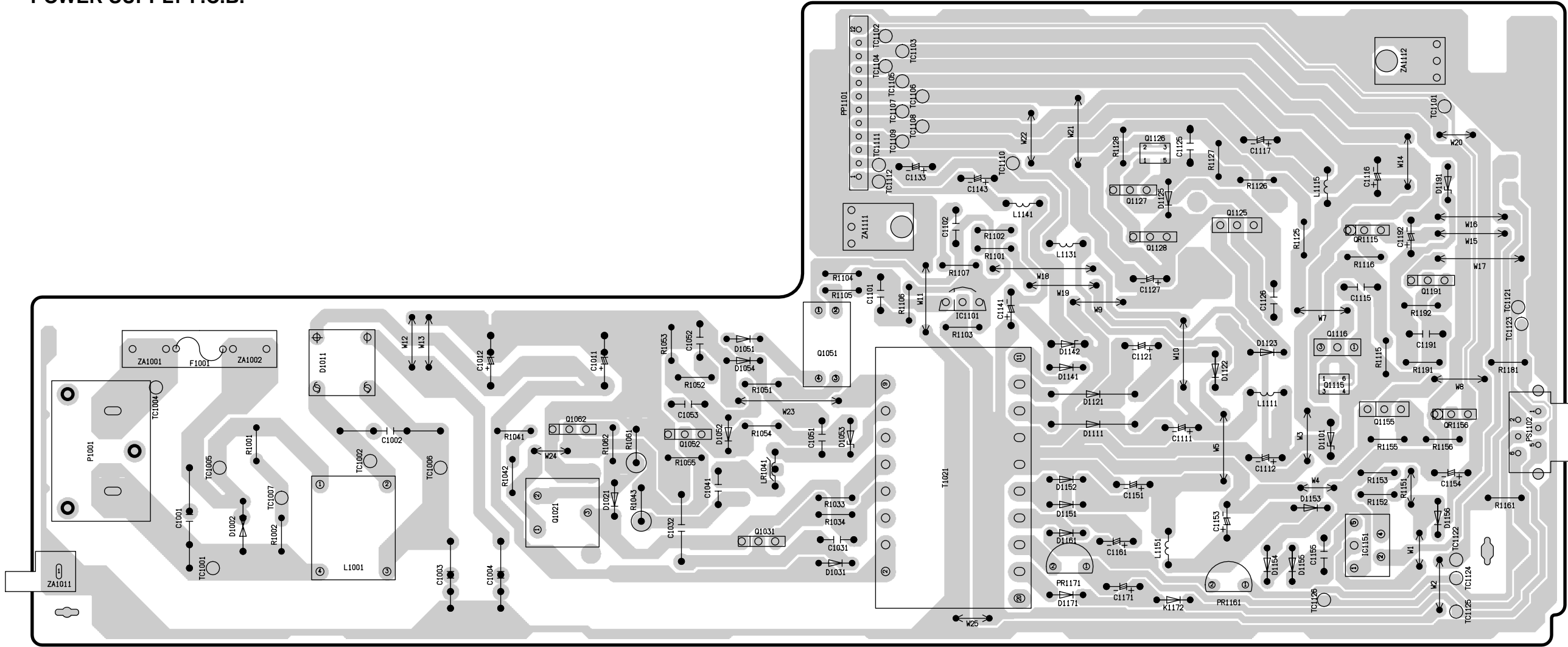


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POWER SUPPLY P.C.B.			
Transistors		Integrated Circuits	
Q1021	B-4	IC1101	C-6
Q1031	A-5	IC1151	A-8
Q1051	B-5	Connectors	
Q1052	B-4	P1001	B-1
Q1062	B-4	PS1102	B-9
Q1116	B-8		
Q1125	C-7		
Q1127	C-7		
Q1128	C-7		
Q1155	B-8		
Q1191	C-8		
Transistors-resistors			
QR1115	C-8		
QR1156	B-9		

ADDRESS INFORMATION

POWER SUPPLY P.C.B.



17.2 POWER SUPPLY P..B. (DVD-S35EE/GN)

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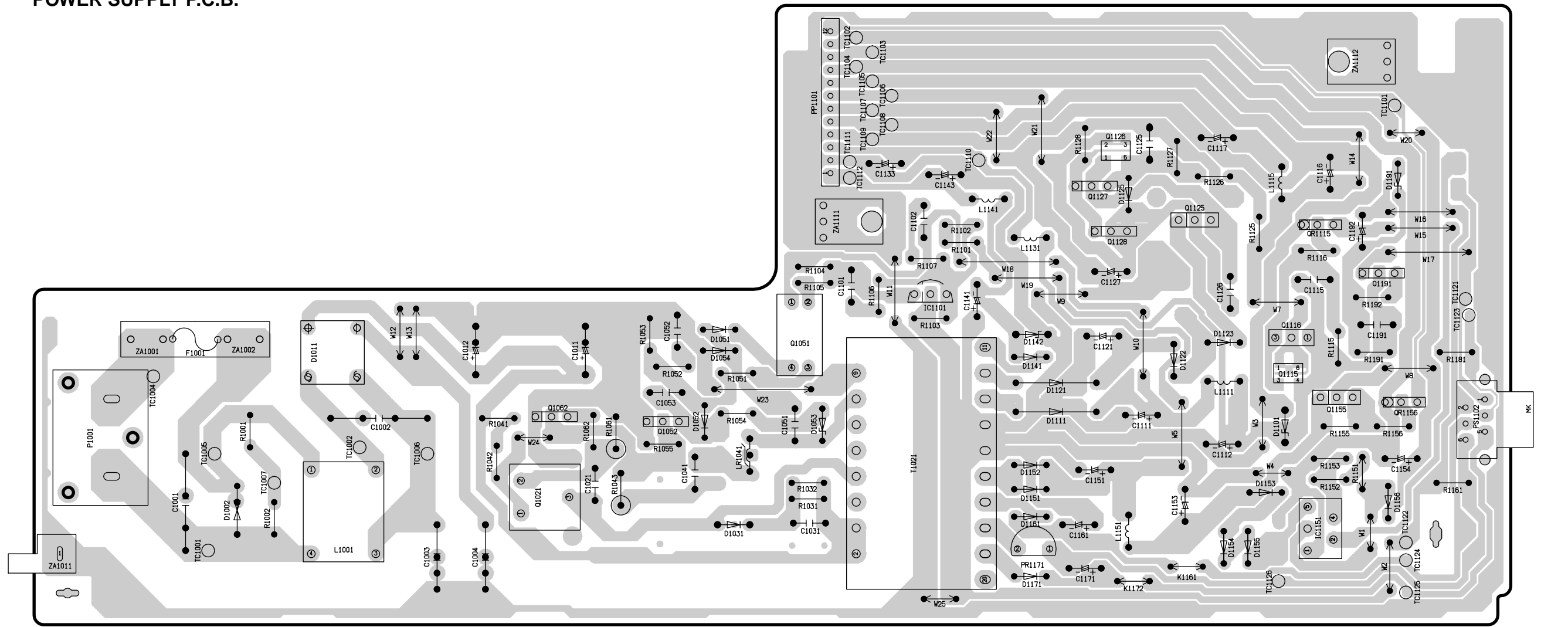


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POWER SUPPLY P.C.B.			
Transistors		Integrated Circuits	
Q1021	B-4	IC1101	C-6
Q1051	B-5	IC1151	A-8
Q1052	B-4	Connectors	
Q1062	B-4	P1001	B-1
Q1116	B-8	PS1102	B-9
Q1125	C-7		
Q1127	C-7		
Q1128	C-7		
Q1155	B-8		
Q1191	C-8		
Transistors-resistors			
QR1115	C-8		
QR1156	B-9		

ADDRESS INFORMATION

POWER SUPPLY P.C.B.



17.3 POWER SUPPLY P.C.B. (DVD-S35PLA)

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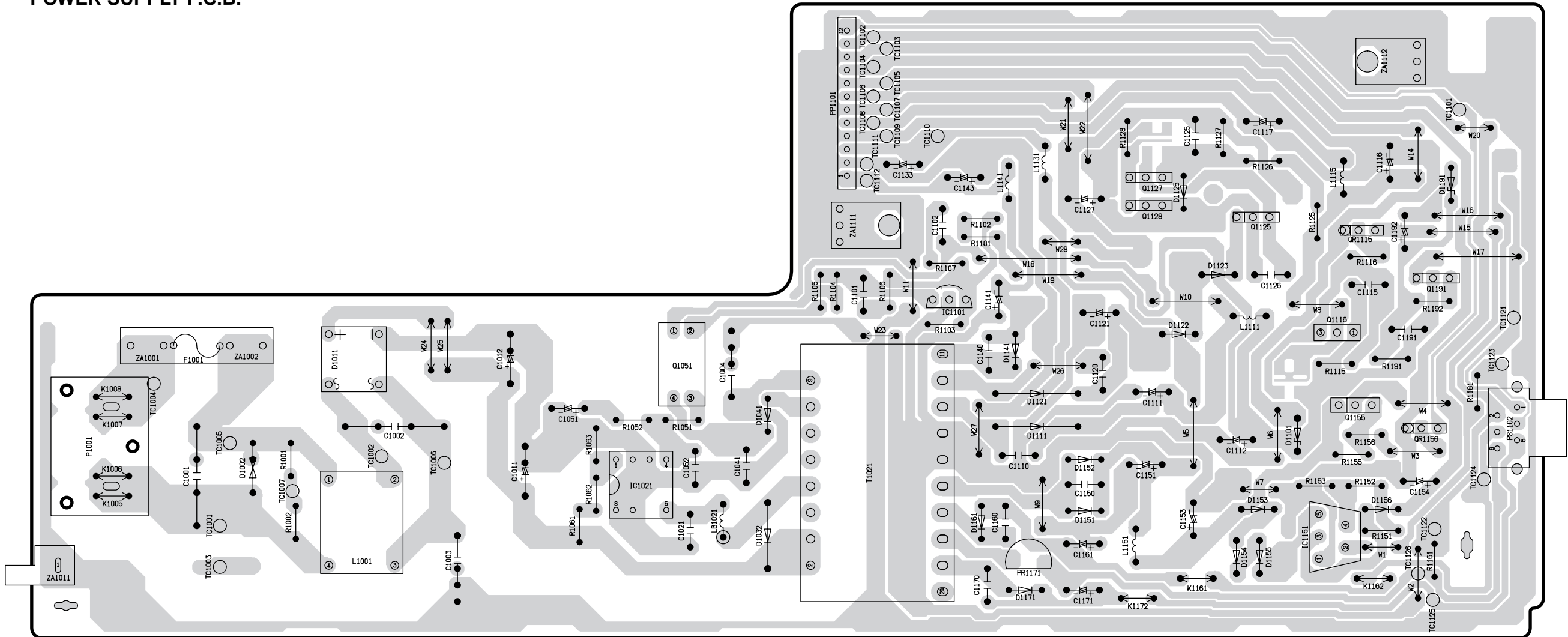
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POWER SUPPLY P.C.B.

POWER SUPPLY P.C.B.			
Transistors		Integrated Circuits	
Q1051	B-4	IC1021	B-4
Q1116	B-8	IC1101	C-6
Q1125	C-8	IC1151	A-8
Q1127	C-7	Connectors	
Q1128	C-7	P1001	B-1
Q1155	B-8	PP1101	D-5
Q1191	C-9	PS1102	B-9
Transistors-resistors			
QR1115	C-8		
QR1156	B-8		

ADDRESS INFORMATION

D
C
B
A



17.4 MAIN P.C.B. (1/2) (COMPONENT SIDE) (DVD-S35GCS/GCU/GC/GCA/GD/EE/GN/PL/PLA)

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17.5 MAIN P.C.B. (2/2) (FOIL SIDE) (DVD-S35GCS/ GCU/GC/GCA/GD/EE/GN/PL/PLA)

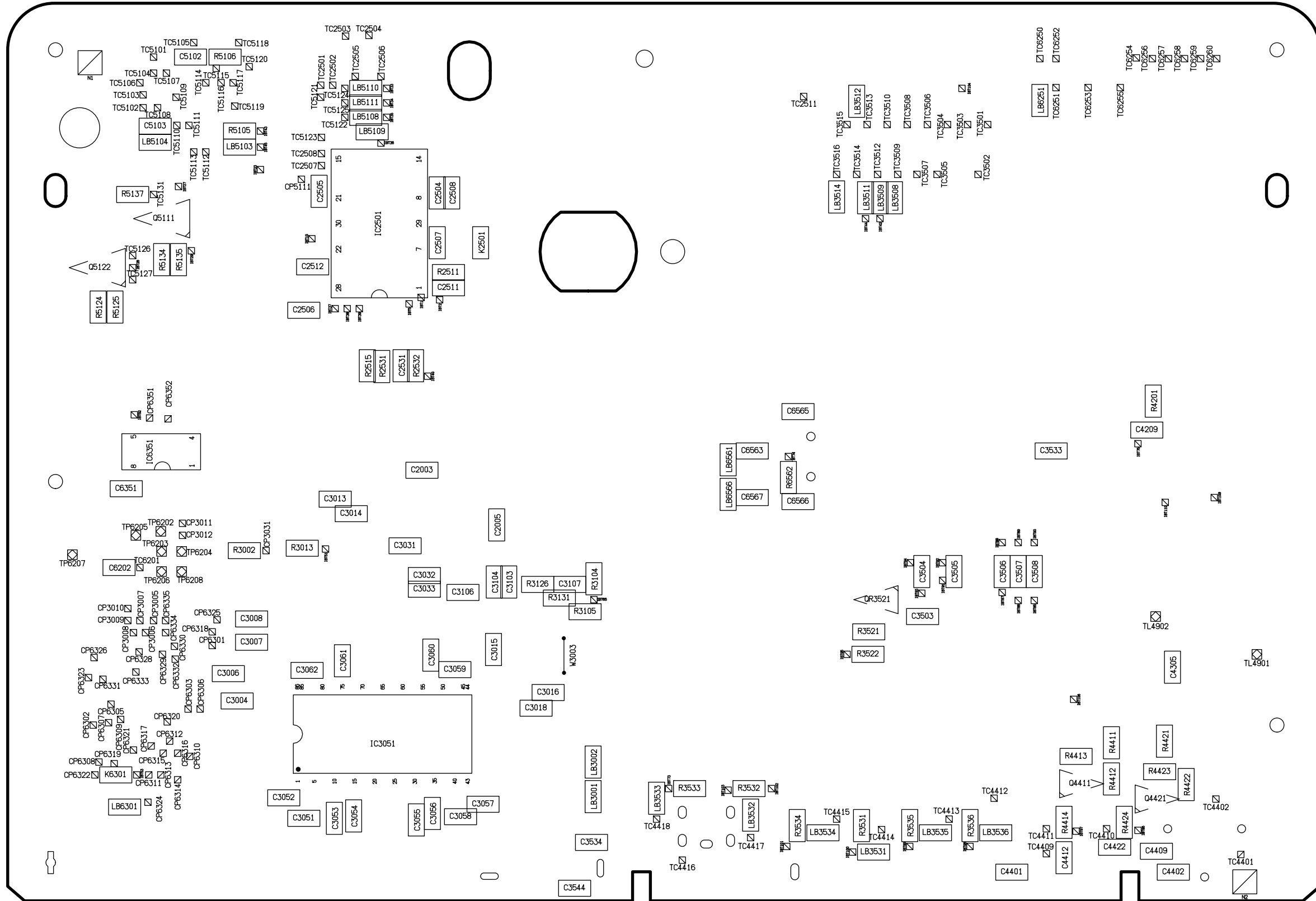
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MAIN P.C.B. (2/2)

* IC6351 is not supplied in the form of an individual part.
When replacing, be sure to replace the main p.c.b.
and not IC6351 singly.



(FOIL SIDE)

1 2 3 4 5 6 7 8 9

17.6 MAIN P.C.B. ADDRESS INFORMATION

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MAIN P.C.B.(DVD-S35GCS/GCU/GC/GCA/GD/EE/GN/PL/PLA)											
Transistors			CP3007	B-2	F	CP6314	B-2	F	JK4401	A-3	C
Q2101	E-7	C	CP3008	B-2	F	CP6315	B-2	F	P2511	F-4	C
Q4402	B-2	C	CP3009	B-2	F	CP6316	B-2	F	PS6251	F-2	C
Q4411	A-7	F	CP3010	C-2	F	CP6317	B-2	F			
Q4421	A-8	F	CP3011	C-2	F	CP6318	B-2	F			
Q5111	E-2	F	CP3012	C-2	F	CP6319	B-1	F			
Q5121	E-8	C	CP3013	C-6	C	CP6320	B-2	F			
Q5122	E-1	F	CP3014	B-6	C	CP6321	B-2	F			
Q5221	E-8	C	CP3015	B-5	C	CP6322	B-1	F			
Transistor-resistors			CP3016	B-5	C	CP6323	B-1	F			
QR3521	C-6	F	CP3017	B-5	C	CP6324	A-2	F			
QR4401	B-2	C	CP3031	C-2	F	CP6325	B-2	F			
QR4403	B-2	C	CP3032	C-6	C	CP6326	B-1	F			
QR5111	E-7	C	CP3161	C-7	C	CP6328	B-2	F			
Integrated Circuits			CP3162	C-7	C	CP6329	B-2	F			
IC2501	E-3	F	CP3163	C-7	C	CP6330	B-2	F			
IC3001	C-6	C	CP3551	B-5	C	CP6331	B-1	F			
IC3051	B-3	F	CP3552	B-4	C	CP6332	B-2	F			
IC3501	C-3	C	CP3553	B-5	C	CP6333	B-2	F			
IC4201	C-2	C	CP3554	B-4	C	CP6334	B-2	F			
IC4311	B-2	C	CP3555	B-5	C	CP6335	B-2	F			
IC4491	A-1	C	CP3556	B-4	C	CP6351	D-2	F			
IC6201	D-7	C	CP3557	B-4	C	CP6352	D-2	F			
IC6251	E-1	C	CP3558	B-4	C	TL4301	B-2	C			
IC6301	B-8	C	CP4201	D-2	C	TL4302	B-2	C			
IC6351	C-2	F	CP4202	D-2	C	TL4901	B-8	F			
IC6561	C-4	C	CP4203	D-2	C	TL4902	B-8	F			
Test Points			CP4204	D-2	C	TL6202	C-8	C			
CP2011	D-7	C	CP4205	D-2	C	TL6203	C-8	C			
CP2012	D-7	C	CP4211	D-2	C	TL6204	C-8	C			
CP2013	D-7	C	CP5101	E-8	C	TL6205	C-8	C			
CP2014	D-7	C	CP5111	E-3	F	TL6206	C-8	C			
CP2015	C-5	C	CP5121	E-8	C	TL6207	C-8	C			
CP2016	C-5	C	CP5131	E-8	C	TL6208	C-7	C			
CP2021	C-5	C	CP5231	E-8	C	TP6202	C-2	F			
CP2022	C-5	C	CP6201	C-7	C	TP6203	C-2	F			
CP2023	C-5	C	CP6242	C-7	C	TP6204	C-2	F			
CP2031	C-5	C	CP6301	B-2	F	TP6205	C-2	F			
CP2032	C-6	C	CP6302	B-1	F	TP6206	C-2	F			
CP2033	C-5	C	CP6303	B-2	F	TP6207	C-1	F			
CP2101	E-7	C	CP6305	B-1	F	TP6208	C-2	F			
CP2102	E-7	C	CP6306	B-2	F	TP6561	C-4	C			
CP2103	E-7	C	CP6307	B-1	F	TP6563	C-4	C			
CP3001	C-7	C	CP6308	B-1	F	TP6564	C-4	C			
CP3002	C-7	C	CP6309	B-1	F	TP6565	C-4	C			
CP3003	C-7	C	CP6310	B-2	F	Connectors					
CP3004	C-7	C	CP6311	B-2	F	FP2501	F-6	C			
CP3005	B-2	F	CP6312	B-2	F	FP3501	E-3	C			
CP3006	B-2	F	CP6313	B-2	F	FP5101	F-7	C			

ADDRESS INFORMATION
C COMPONENT SIDE
F FOIL SIDE

MAIN P.C.B.(DVD-S35PX)											
Transistors			CP3007	D-6	C	CP6307	A-2	F	TL6206	B-8	C
Q2101	E-7	C	CP3008	D-6	C	CP6308	A-2	F	TL6207	B-8	C
Q4402	B-2	C	CP3009	D-6	C	CP6309	A-2	F	TL6208	B-8	C
Q4411	A-7	F	CP3010	D-6	C	CP6310	A-2	F	TP6201	C-1	F
Q4421	A-8	F	CP3011	D-6	C	CP6311	A-2	F	TP6202	B-1	F
Q5111	E-2	F	CP3012	D-6	C	CP6312	A-2	F	TP6203	B-1	F
Q5121	E-8	C	CP3013	D-6	C	CP6313	A-2	F	TP6204	B-1	F
Q5122	E-1	F	CP3014	C-5	C	CP6314	A-2	F	TP6205	D-2	F
Q5221	E-8	C	CP3015	B-5	C	CP6315	A-2	F	TP6206	D-2	F
Transistor-resistors			CP3016	B-5	C	CP6316	A-2	F	TP6207	B-5	F
QR3521	C-6	F	CP3017	B-5	C	CP6317	A-2	F	TP6208	B-1	F
QR4401	B-2	C	CP3031	C-2	F	CP6318	C-2	F	TP6561	D-4	C
QR4403	B-2	C	CP3032	D-6	C	CP6319	A-2	F	TP6563	C-4	C
QR5111	E-7	C	CP3161	D-7	C	CP6320	A-2	F	TP6564	C-4	C
Integrated Circuits			CP3162	D-7	C	CP6321	B-2	F	TP6565	D-2	C
IC2501	E-3	F	CP3163	D-7	C	CP6322	B-2	F	Connectors		
IC3001	C-6	C	CP3551	C-4	C	CP6323	B-2	F	FP2501	F-7	C
IC3051	B-3	F	CP3552	C-3	C	CP6324	A-2	F	FP3501	E-3	C
IC3501	C-3	C	CP3553	C-4	C	CP6325	A-1	F	FP5101	F-7	C
IC4201	C-2	C	CP3554	C-3	C	CP6326	B-2	F	JK4401	A-3	C
IC4311	B-2	C	CP3555	C-4	C	CP6327	A-2	F	P2511	F-4	C
IC4491	A-2	C	CP3556	C-3	C	CP6328	A-2	F	PS6251	F-2	C
IC6201	C-7	C	CP3557	C-4	C	CP6329	A-2	F			
IC6251	E-1	C	CP3558	C-3	C	CP6330	A-2	F			
IC6301	B-8	C	CP4201	D-2	C	CP6331	A-2	F			
IC6351	C-2	F	CP4202	D-2	C	CP6332	A-2	F			
IC6561	C-4	C	CP4203	D-2	C	CP6333	A-2	F			
Test Points			CP4204	D-2	C	CP6334	A-2	F			
CP2011	D-7	C	CP4205	D-2	C	CP6335	A-1	F			
CP2012	D-7	C	CP4211	D-2	C	CP6336	A-1	F			
CP2013	D-7	C	CP5101	E-8	C	CP6337	A-1	F			
CP2014	D-7	C	CP5111	E-7	C	CP6338	A-1	F			
CP2015	C-5	C	CP5121	E-8	C	CP6339	A-1	F			
CP2016	C-5	C	CP5131	E-8	C	CP6340	A-1	F			
CP2021	C-5	C	CP5231	E-8	C	CP6341	A-1	F			
CP2022	C-5	C	CP6201	D-7	C	CP6342	A-1	F			
CP2023	C-5	C	CP6211	C-8	C	CP6343	A-2	F			
CP2031	C-5	C	CP6212	C-8	C	CP6344	A-2	F			
CP2032	C-5	C	CP6213	C-8	C	CP6351	C-2	F			
CP2033	C-5	C	CP6214	C-8	C	CP6352	C-2	F			
CP2101	E-7	C	CP6217	C-8	C	TL4301	B-2	C			
CP2102	E-7	C	CP6218	C-8	C	TL4302	B-2	C			
CP2103	E-7	C	CP6219	C-8	C	TL4901	B-8	F			
CP3001	C-7	C	CP6242	B-8	C	TL4902	B-8	F			
CP3002	C-7	C	CP6301	A-1	F	TL6201	B-8	C			
CP3003	C-7	C	CP6302	A-2	F	TL6202	B-8	C			
CP3004	C-7	C	CP6303	A-2	F	TL6203	B-8	C			
CP3005	D-6	C	CP6305	A-2	F	TL6204	B-8	C			
CP3006	D-6	C	CP6306	A-2	F	TL6205	B-8	C			

ADDRESS INFORMATION
C COMPONENT SIDE
F FOIL SIDE

17.7 MAIN P.C.B. (1/2) (COMPONENT SIDE) (DVD-S35PX)

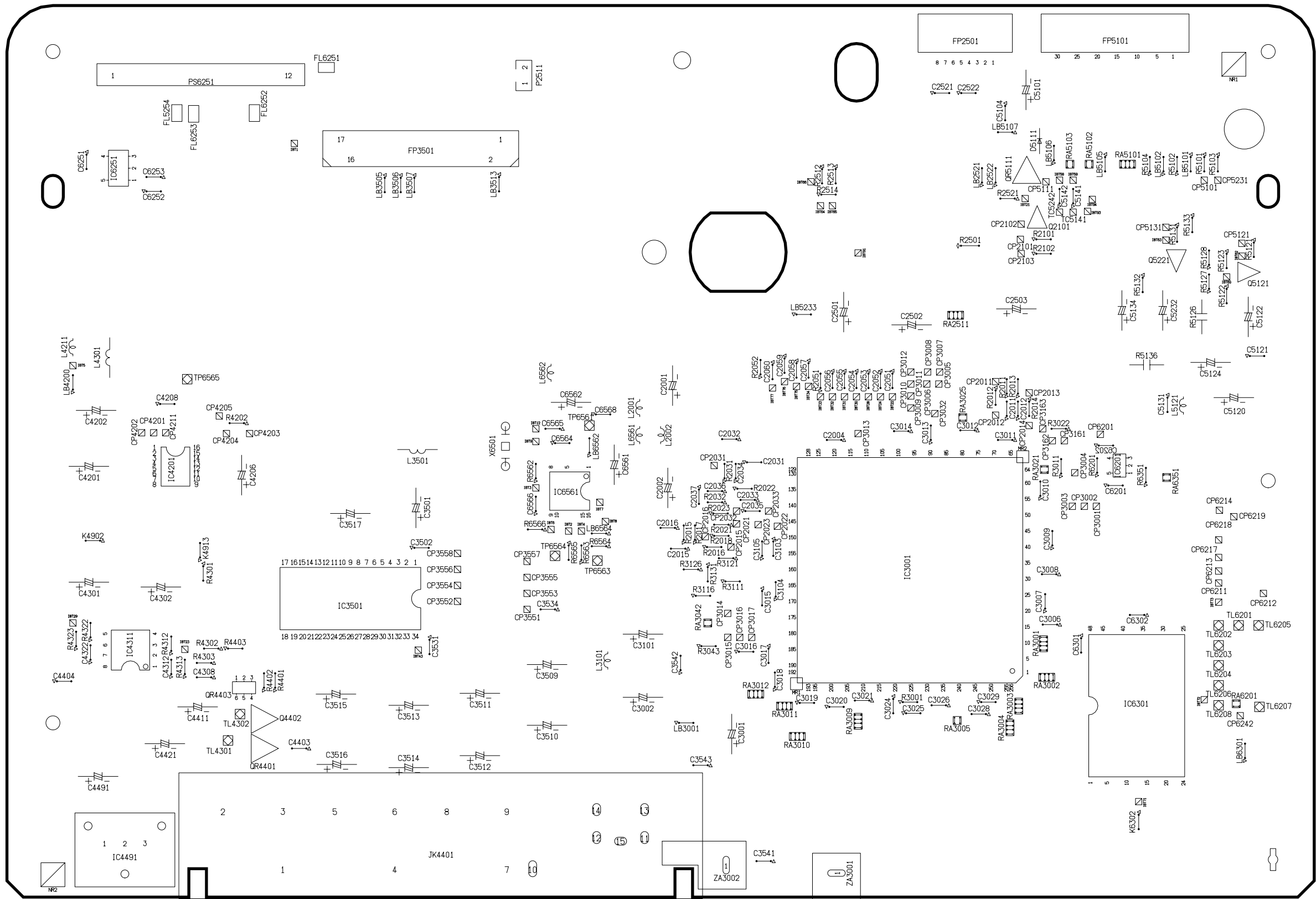
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MAIN P.C.B. (1/2)

F
E
D
C
B
A



(COMPONENT SIDE)

DVD-S35PX
MAIN P.C.B.(1/2)(REP3579E-C)

1 2 3 4 5 6 7 8 9

17.8 MAIN P.C.B. (2/2) (FOIL SIDE) (DVD-S35PX)

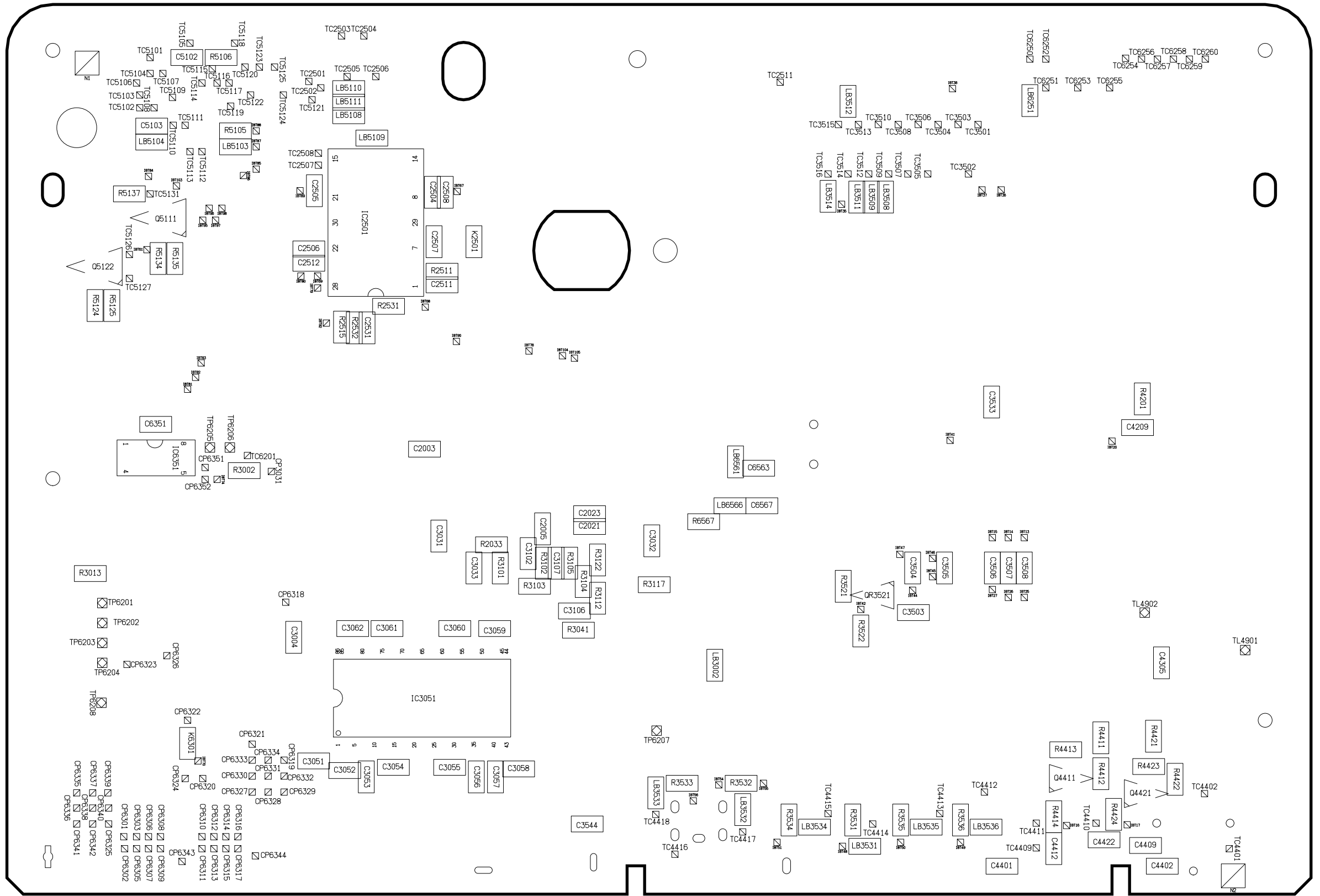
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MAIN P.C.B. (2/2)

* IC6351 is not supplied in the form of an individual part.
When replacing, be sure to replace the main p.c.b.
and not IC6351 singly.



(FOIL SIDE)

DVD-S35PX
MAIN P.C.B.(2/2)(REP3579E-C)

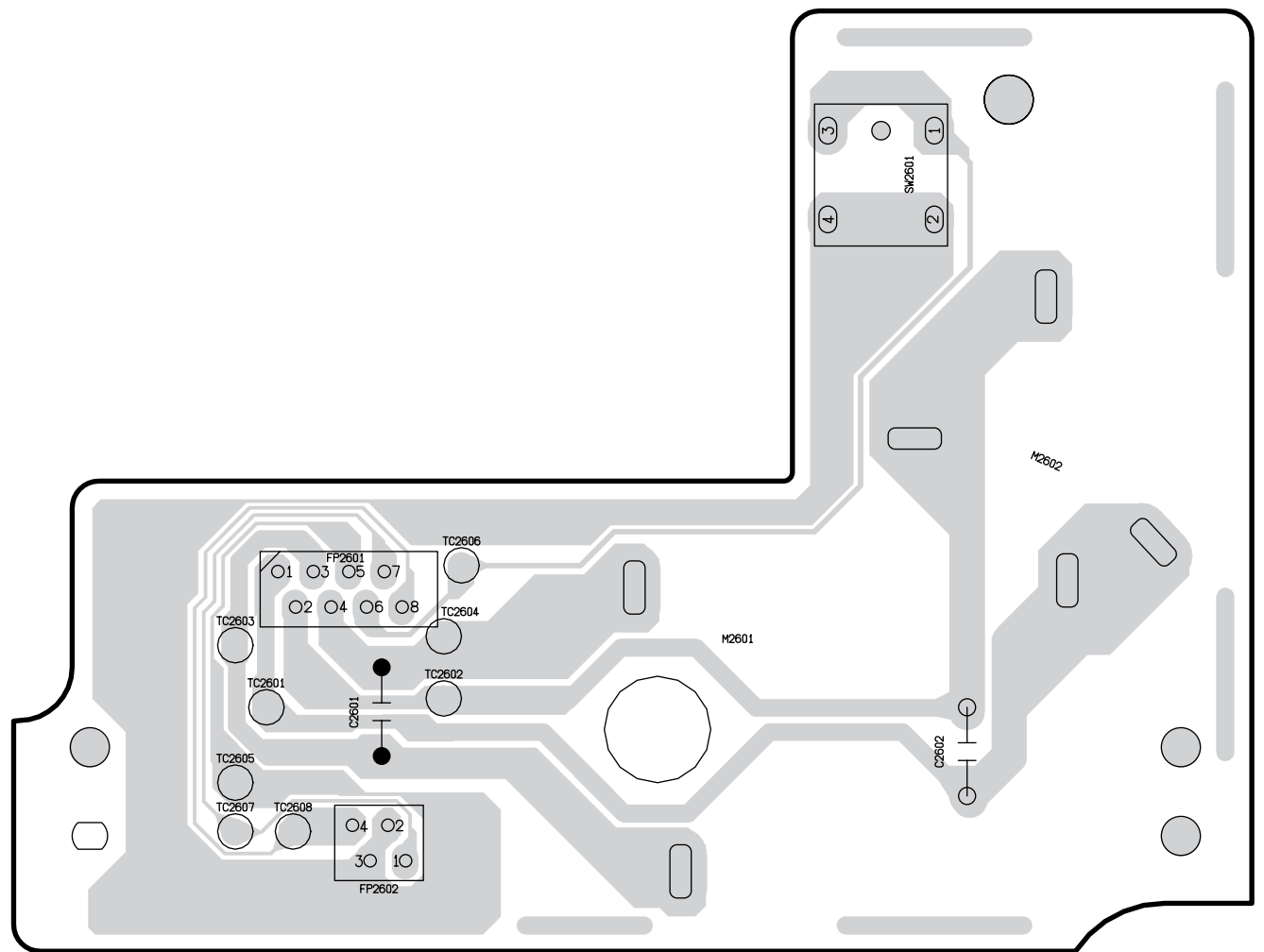
17.9 MOTOR P.C.B.

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MOTOR P.C.B.



DVD-S35GCS/GCU/GC/GCA/GD/EE/GN/PL/PLA/PX
MOTOR P.C.B.(REP3501A-C)

17.10 OPERATION P.C.B.

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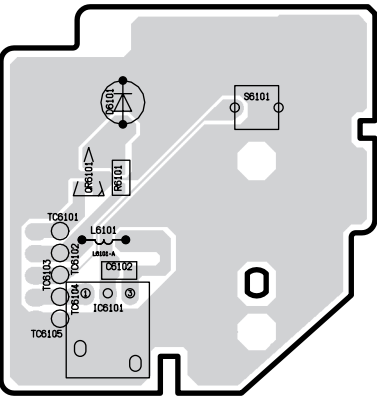
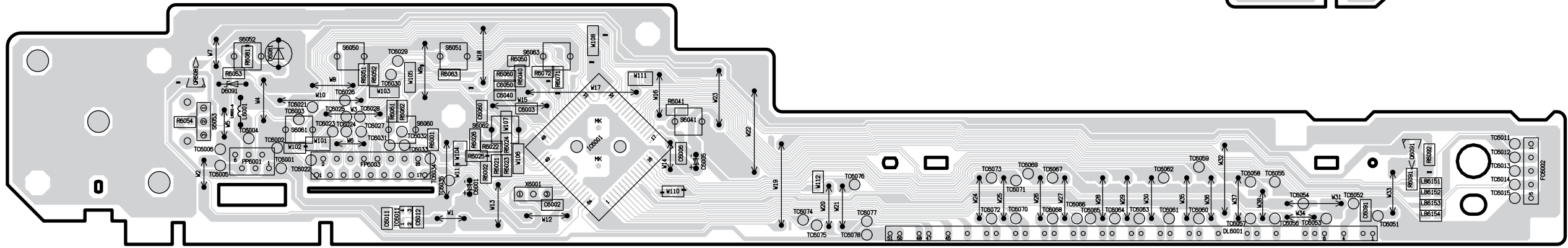
OPERATION P.C.B.			
Transistors		Connectors	
Q6091	A-8	FC6002	A-9
Transistors-resistors		FP6003	A-3
QR6081	B-2	PP6001	A-2
QR6101	C-8		
Integrated Circuits			
IC6001	A-4		
IC6011	A-3		
IC6101	B-8		

ADDRESS INFORMATION

OPERATION P.C.B.

OPERATION (L) P.C.B.

OPERATION (R) P.C.B.



DVD-S35GCS/GCU/GC/GCA/GD/EE/GN/PL/PLA/PX
 OPERATION P.C.B.(REP3503A-C:GCS/GCU/GD,REP3503G-C:GC/GCA,
 REP3503J-C:EE,REP3503F-C:GN,REP3503H-C:PL/PLA,REP3503N-C:PX)

18 EXPLODED VIEWS

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[18.1 Casing Parts& Mechanism Section Exploded View](#)

[18.2 Mechanism Section Exploded View](#)

[18.3 Packing& Accessories Section Exploded View](#)

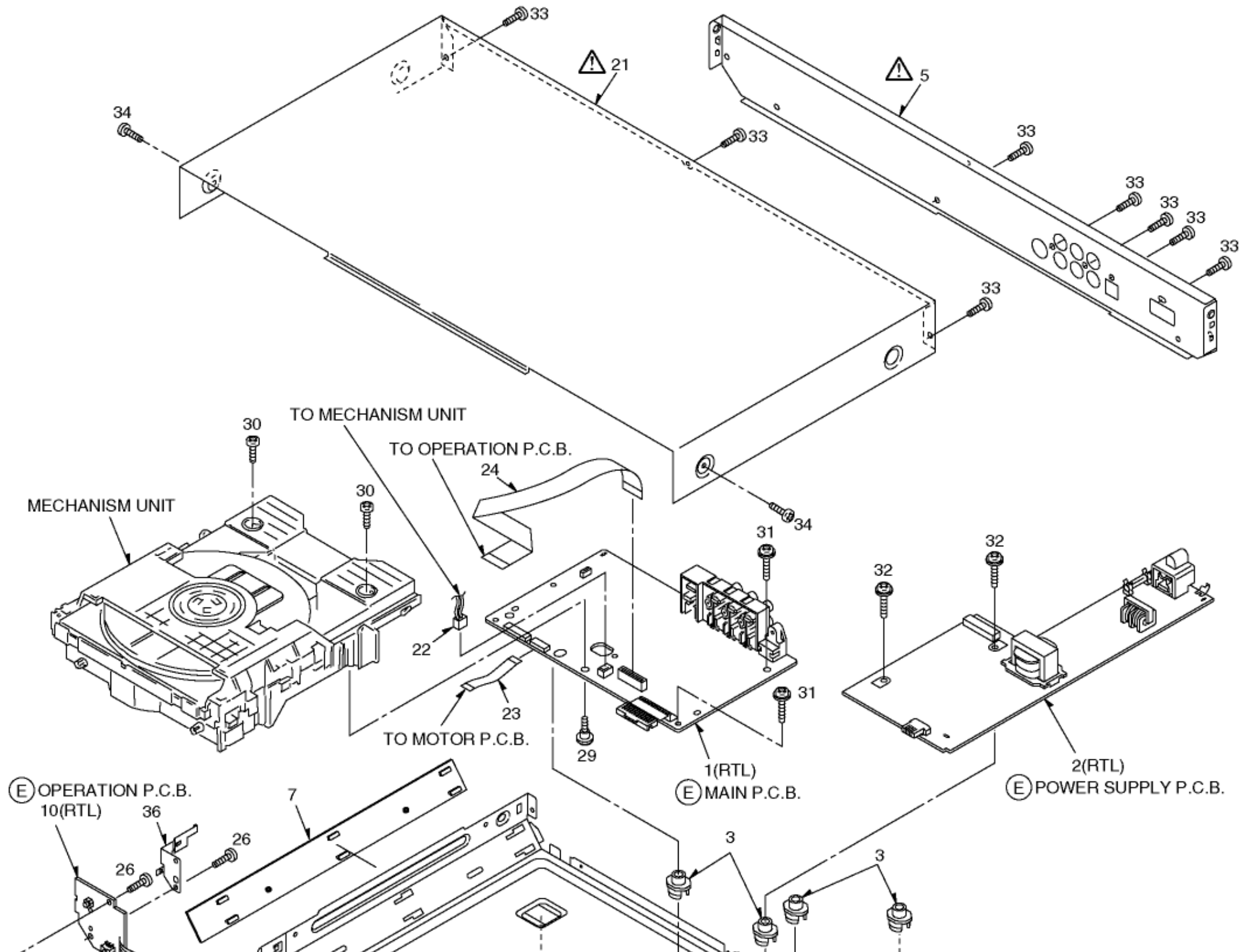
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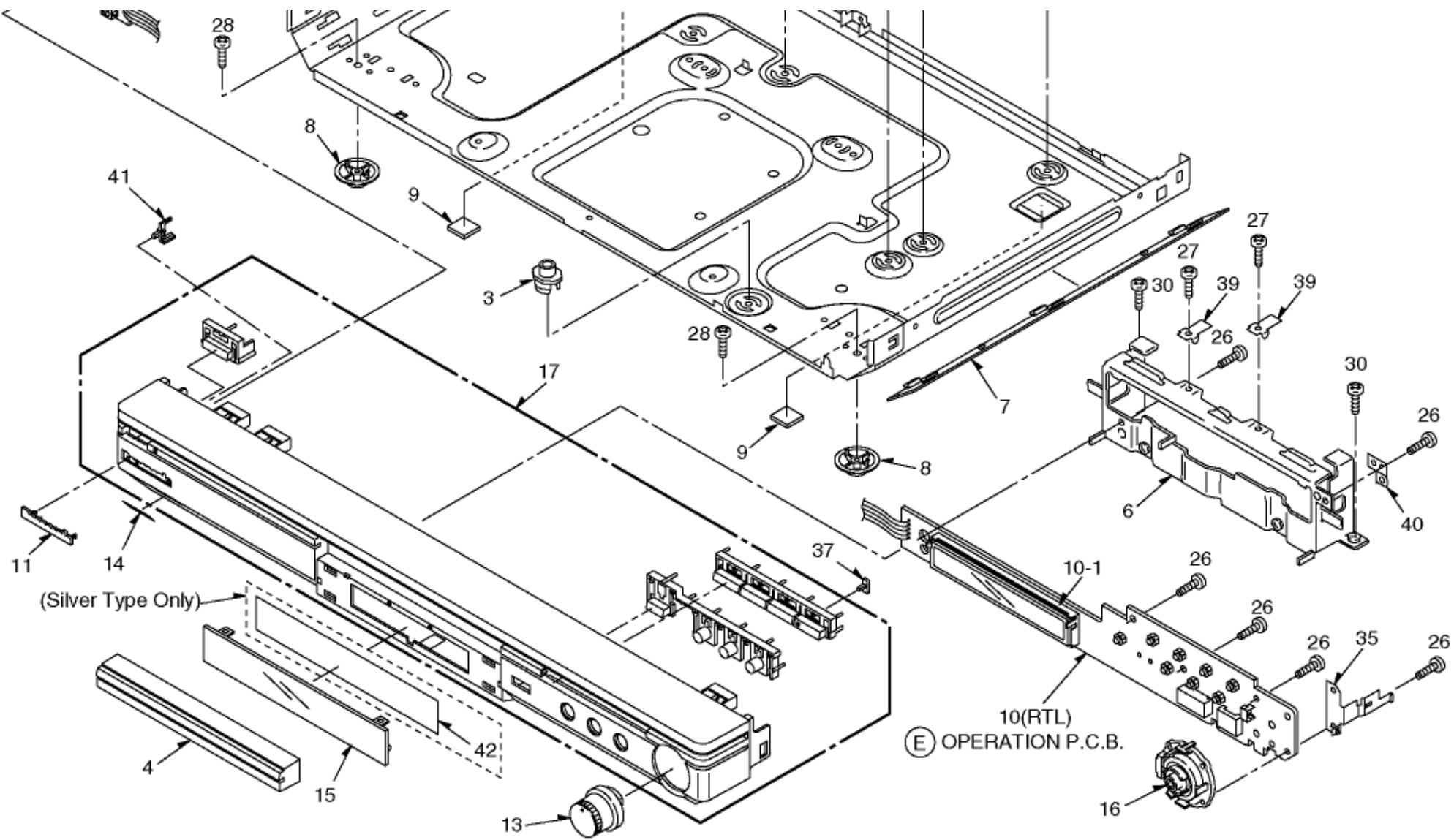
18.1 Casing Parts& Mechanism Section Exploded View

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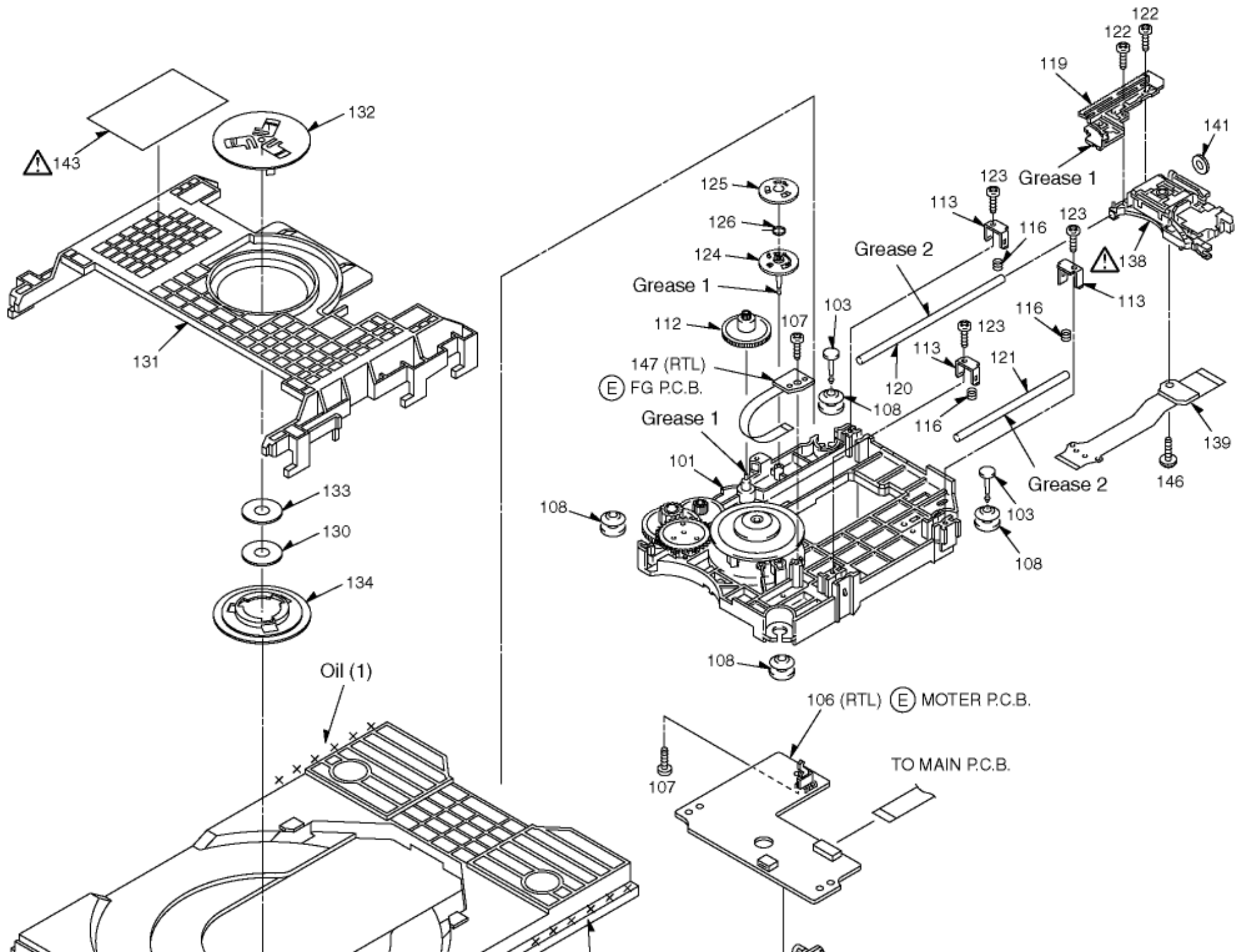


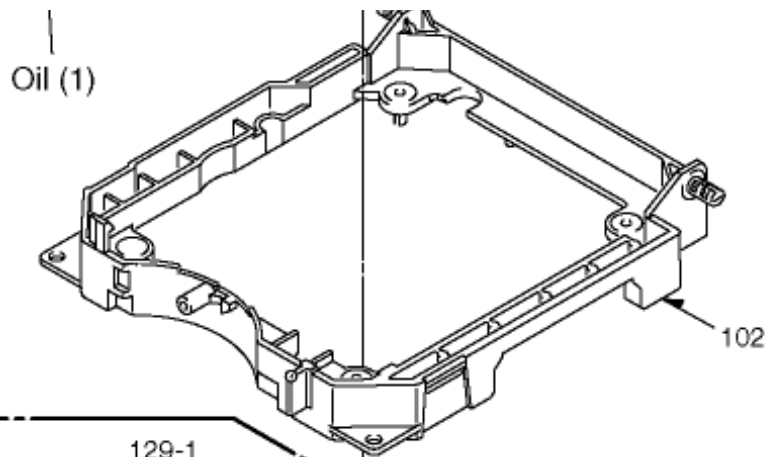
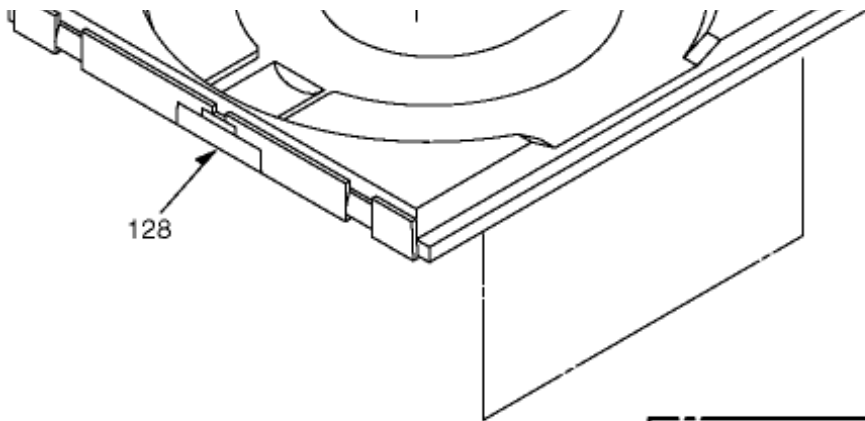
18.2 Mechanism Section Exploded View

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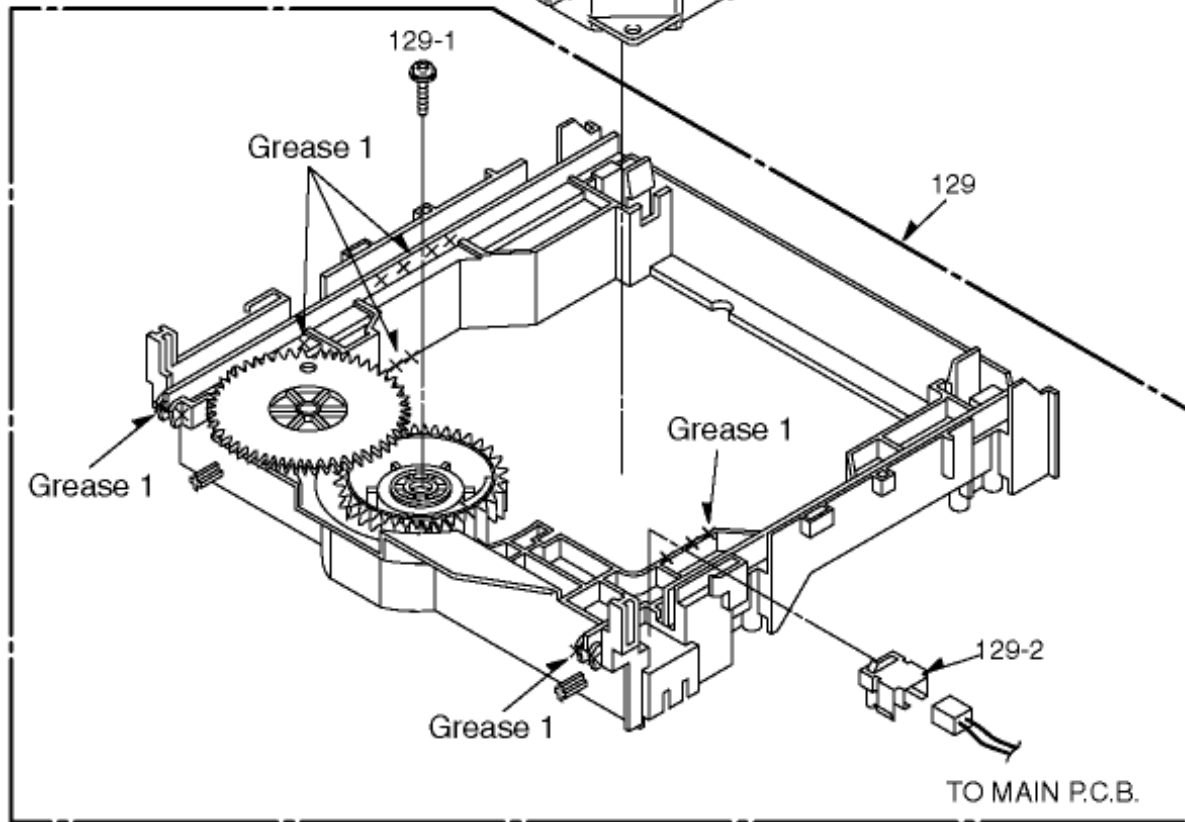


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	Part number
Oil(1)	RFKXGA1280
Grease 1	RFKXGAK152
Grease 2	RFKXPG641

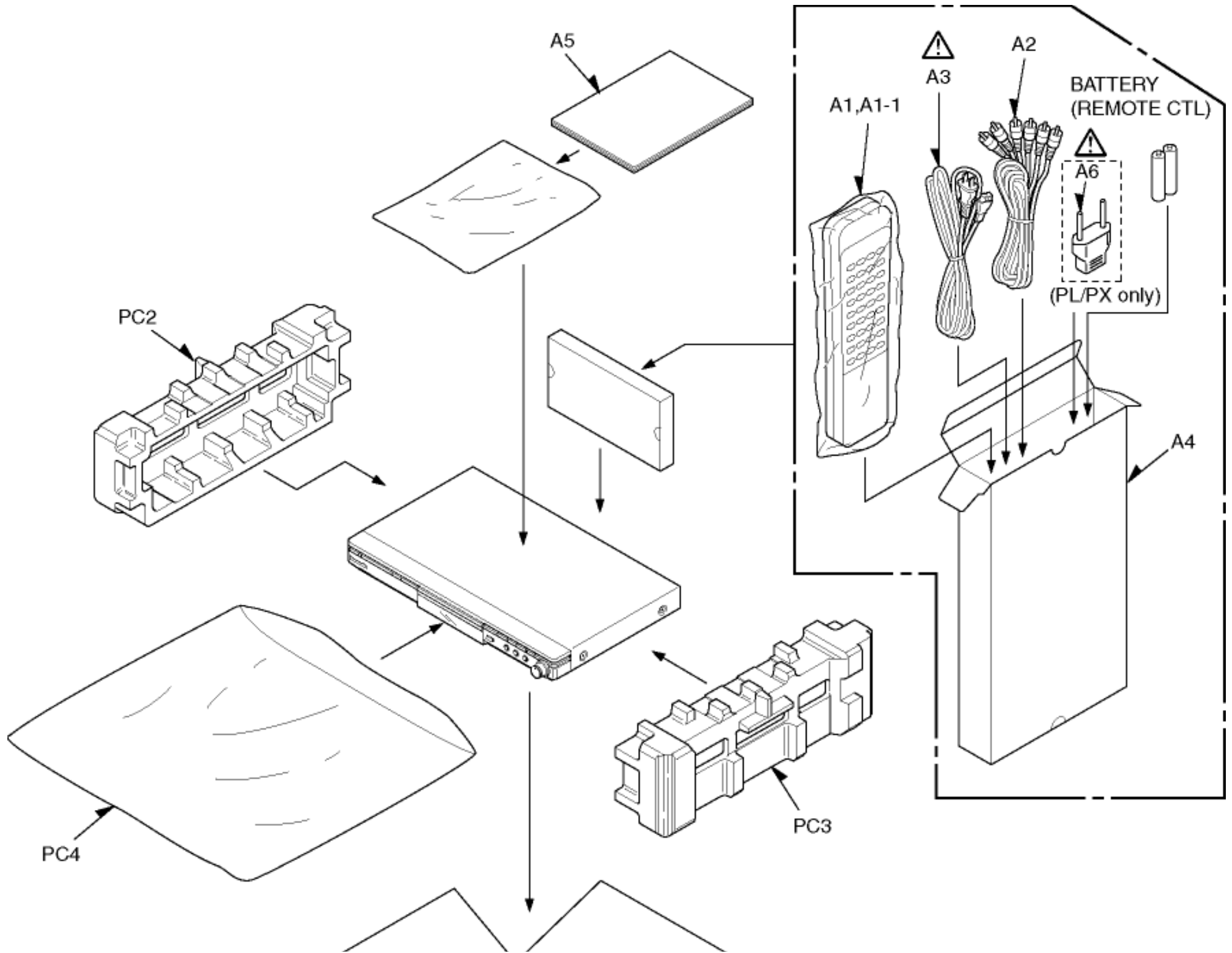


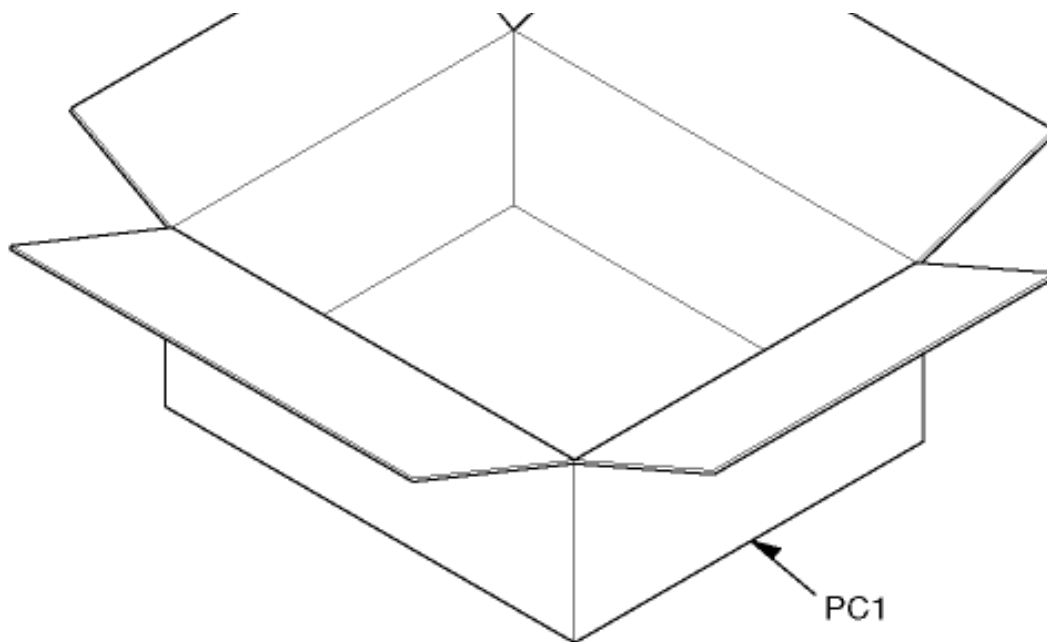
18.3 Packing & Accessories Section Exploded View

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19 REPLACEMENT PARTS LIST

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Notes:

*Important safety notice:

Components identified by  mark have special characteristics important for safety.

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

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

*Warning: This product uses a laser diode. Refer to caution statements.

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











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



*The marking (RTL) indicates the retention time is limited for this item. After the discontinuation of this assembly in production, it will no longer be available.




*“<IA> - <IF>”, marks in Remarks indicate languages of instruction manuals. [<IA>: English, <IB>: English, <IC>: Spanish, Portuguese, <ID>:Chinese, <IE>:Korean, <IF>: Arabic.]










*All parts are supplied by S.P.C..

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
<u>1</u>	REP3579E-C	MAIN P.C.B.	1	PX
1	REP3580D-C	MAIN P.C.B.	1	PLA,PL
1	REP3580F-C	MAIN P.C.B.	1	GN,EE,GD,GCA,GC,GCU,GCS
<u>2</u>	REP3504C-1C	POWER SUPPLY P.C.B.	1	(RTL)PLA
2	REP3560A-C	POWER SUPPLY P.C.B.	1	(RTL)PX,PL,GD,GCA,GC,GCU,GCS

2	REP3560B-C	POWER SUPPLY P.C.B.	1	(RTL)EE,GN
<u>3</u>	CMR0001-J	PCB SUPPORT	5	
<u>4</u>	RGKC0010-KJ	TRAY TOP	1	(K)
4	RGKC0010-SJ	TRAY TOP	1	(S)
<u>5</u>	RGRC0008A-D	REAR PANEL	1	EE 
5	RGRC0008A-F	REAR PANEL	1	GCS 
5	RGRC0008A-G	REAR PANEL	1	GCU 
5	RGRC0008A-H	REAR PANEL	1	GN 
5	RGRC0008A-I	REAR PANEL	1	PL 
5	RGRC0008A-J	REAR PANEL	1	PX 
5	RGRC0008A-K	REAR PANEL	1	GC 
5	RGRC0008A-L	REAR PANEL	1	GD 
5	RGRC0008A-M	REAR PANEL	1	PLA 
5	RGRC0008A-N	REAR PANEL	1	GCA 
<u>6</u>	RMAC0005	FRONT ANGLE	1	
<u>7</u>	RGKC0009-KJ	DECORATION PLATE	2	(K)
7	RGKC0009-SJ	DECORATION PLATE	2	(S)
<u>8</u>	RKA0132-K	FOOT	2	
<u>9</u>	RKA0137-K	FOOT RUBBER	2	
<u>10</u>	REP3503A-C	OPERATION P.C.B.	1	(RTL)GD,GCU,GCS
10	REP3503F-C	OPERATION P.C.B.	1	(RTL)GN
10	REP3503G-C	OPERATION P.C.B.	1	(RTL)GCA,GC
10	REP3503H-C	OPERATION P.C.B.	1	(RTL)PLA,PL
10	REP3503J-C	OPERATION P.C.B.	1	(RTL)EE
10	REP3503N-C	OPERATION P.C.B.	1	(RTL)PX
<u>10-1</u>	RMNC0002	FL HOLDER	1	
<u>11</u>	RGBC0002	PANASONIC BADGE	1	
<u>13</u>	RGWC0004-KJ	SHUTTLE KNOB	1	(K)
13	RGWC0004-SJ	SHUTTLE KNOB	1	(S)
<u>14</u>	RKW0652-K	REMOTE CONTROL WINDOW	1	(K)
14	RKW0652-S	REMOTE CONTROL WINDOW	1	(S)
<u>15</u>	RKWC0004-J	FL WINDOW	1	

16	RXQC0001	SHUTTLE BASE ASS'Y	1	
17	RYPC0011-AK	FRONT PANEL	1	EE-K
17	RYPC0011-DS	FRONT PANEL	1	PX,PLA,PL
17	RYPC0011-ES	FRONT PANEL	1	GN,EE-S,GD,GCA,GC,GCU,GCS
21	RKMC0001-K	TOP PANEL	1	(K) 
21	RKMC0001-S	TOP PANEL	1	(S) 
22	REX1155	CONNECTOR CABLE(2P)	1	
23	REZ1528	FFC(8P)	1	
24	REZ1530	FFC(13P)	1	
26	XTBS26+10J	SCREW	8	
27	XTB3+4F	SCREW	2	
28	XTV3+6G	SCREW	2	
29	RHDC0002	SCREW	1	
30	RHD30102	SCREW	4	
32	RHDC0003	SCREW	5	
33	VHD0690	SCREW	8	
34	VHD1041	SCREW	2	(K)
34	VHD1094	SCREW	2	(S)
35	RMCC0008	EARTH PLATE(A)	1	
36	RMCC0009	EARTH PLATE(B)	1	
37	RGLC0002-J	LIGHTING PIECE(A)	1	
39	RMCC0018	EARTH PLATE(G)	2	
40	RMCC0015	EARTH PLATE(D)	1	
41	RGLC0003-J	LIGHTING PIECE(B)	1	
42	RGQC0003-J	FILTER	1	(S)
101	RXQ1016A	SPINDLE MOTOR ASS'Y	1	
102	RMR1323-K	MIDDLE CHASSIS	1	
103	RMS0712	FIXED PIN	2	
106	REP3501A-C	MOTOR P.C.B.	1	(RTL)
107	XTN2+6G	SCREW	2	
108	RMG0545-A1	FLOATING RUBBER	4	
112	RDGC0499-J	TRAVERSE GEAR(A)	1	

113	RMC0415	ADJUST SPRING HOLDER(1)	3	
116	RMEC0320	ADJUST SPRING	3	
119	RMM0251	TRAVERSE DRIVE RACK	1	
120	RMSC0710	GUIDE SHAFT(1)	1	
121	RMSC0711	GUIDE SHAFT(2)	1	
122	RHD17045	SCREW	2	
123	VHD1224-C	SCREW	3	
124	RDG0500	TRAVERSE GEAR(B)	1	
125	RDG0501	TRAVERSE GEAR(C)	1	
126	RMEC0319	TRAVERSE GEAR SPRING	1	
128	RGQ0280-K5	TRAY	1	
129	RXQ0727-5	MECHA CHASSIS ASS'Y	1	
129-1	XTW3+12S	SCREW	1	
129-2	RSH1A049-U	OPEN SWITCH	1	K0F111E00093
130	JSMC0048	MAGNET	1	
131	RMR1445-K	CLAMP PLATE	1	
132	RMR1447-X	MAGNET HOLDER	1	
133	XWG6FFY	WASHER	1	
134	RMR1446-X	CLAMPER	1	
138	RAF3023A-1	OPTICAL PICK-UP	1	
139	RJB2308A-1	INTERFACE FPC	1	
141	RMG0561-T	CUSHION RUBBER	1	
143	RQLCA0141	LASER CAUTION LABEL	1	
146	RHD14095	SCREW	1	
147	REP3081A	FG P.C.B.	1	(RTL)
A1	EUR7621020	REMOTE CONTROL ASS'Y	1	
A1-1	UR76EC2102B	BATTERY COVER	1	
A2	JAC3315N	AV CORD	1	
A3	RJA0019-2X	AC CORD	1	EE,PX,GCA,GC,GCU,GCS 
A3	RJA0035-2X	AC CORD	1	GN 
A3	RJA0065-2D	AC CORD	1	PLA 

A3	RJA0078-1X	AC CORD	1	GD 
A3	VJA0667	AC CORD	1	K2CA2DA00013 PL 
A4	RPQCF0006	ACCESSORY BOX	1	
A5	RQT6933-1P	OPERATING INSTRUCTIONS	1	<IA>EE,PX,GCA,GC,GCU,GCS
A5	RQT6933-P	OPERATING INSTRUCTIONS	1	<IB>GN
A5	RQT6935-M	OPERATING INSTRUCTIONS	1	<IC>PLA,PL
A5	RQT6936-K	OPERATING INSTRUCTIONS	1	<ID>GCU,GCS
A5	RQT6937-Z	OPERATING INSTRUCTIONS	1	<IE>GD
A5	RQT6938-A	OPERATING INSTRUCTIONS	1	<IF>GCA,GC
A6	VJP2974	POWER PLUG ADAPTOR	1	K2DA42E00001 PX 
A6	VJP3085	POWER PLUG ADAPTOR	1	K2DR42E00001 PL 
C1001,02	F0CAF104A024	0.1U	2	
C1003	ECKMNA102MEV	0.01U	1	PLA 
C1003	VCK0286B471	CERAMIC CAPACITOR	1	F1BAF471A013 EXCEPT(PLA)AREA 
C1004	ECKMNA222MEV	0.022U	1	PLA 
C1004	VCK0286E102	CERAMIC CAPACITOR	1	F1BAF1020011 EXCEPT(PLA)AREA 
C1011	ECA2VHG220	350V 22U	1	PLA
C1011	ECA2WHG220	450V 22U	1	EXCEPT(PLA)AREA
C1012	ECA2VHG220	350V 22U	1	PLA
C1012	ECA2WHG100	450V 10U	1	EE,GN
C1012	ECA2WHG220	450V 22U	1	PX,PL,GD,GCA,GC,GCU,GCS
C1021	ECCD3A470JGE	1000V 47P	1	PLA
C1021	F1B3D221A002	2000V 220P	1	GN,EE
C1031	ECKD2H182KB5	500V 1800P	1	F1B2H1820001 GN,EE
C1031	ECKN3A271KBP	CERAMIC CAPACITOR	1	PX,PL,GD,GCA,GC,GCU,GCS
C1032	ECKW3A332KBS	CERAMIC CAPACITOR	1	PX,PL,GD,GCA,GC,GCU,GCS
C1041	ECQB1H223JF4	50V 0.022U	1	EXCEPT(PLA)AREA
C1041	F1E1H104A001	50V 0.1U	1	PLA
C1051	ECQB1H104JF4	50V 0.1U	1	EXCEPT(PLA)AREA
C1051	F2A1E470A002	25V 47U	1	PLA
C1052	ECQB1H683JF4	50V 0.068U	1	EXCEPT(PLA)AREA
C1052	F1E1H104A001	50V 0.1U	1	PLA

C1053	ECQB1H473JF4	50V 0.047U	1	EXCEPT(PLA)AREA
C1101	ECQV1H104JL2	50V 0.1U	1	
C1102	ECQB1H223JF4	50V 0.022U	1	
C1110	ECKD2H101KB5	500V 100P	1	PLA
C1111	F2A1A6810017	10V 680U	1	
C1112	F2A1A102A206	10V 1000U	1	
C1115	F1E1H104A001	50V 0.1U	1	
C1116	ECA1AM221	10V 220U	1	
C1117	F2A0J102A247	6.3V 1000U	1	
C1120	ECKD2H101KB5	500V 100P	1	PLA
C1121	F2A0J1020045	6.3V 1000U	1	
C1125	F1E1H104A001	50V 0.1U	1	
C1126	F1D1H102A012	50V 1000P	1	
C1127	F2A0J102A247	6.3V 1000U	1	
C1133	F2A1E470A205	25V 47U	1	
C1140	ECKD2H101KB5	500V 100P	1	PLA
C1141	EEUFC1E101S	25V 100U	1	
C1143	F2A1E470A205	25V 47U	1	
C1150	ECKD2H101KB5	500V 100P	1	PLA
C1151	EEUFC1E331	25V 330U	1	
C1153	ECA1EM331	25V 330U	1	
C1154	ECA1CM221	16V 220U	1	
C1155	F1E1H104A001	50V 0.1U	1	PX,PL,GD,GCA,GC,GCU,GCS
C1160	ECKD2H101KB5	500V 100P	1	PLA
C1161	F2A1H2200032	50V 22U	1	
C1170	ECKD2H101KB5	500V 100P	1	PLA
C1171	F2A1A1010072	10V 100U	1	
C1191	F1E1H104A001	50V 0.1U	1	
C1192	ECEA0JKA470	6.3V 47U	1	
C2001,02	EEUFC0J101B	6.3V 100U	2	
C2003	ECJ1VF1C104Z	16V 0.1U	1	
C2004	ECJ1VF1C104Z	16V 0.1U	1	EXCEPT(GN)AREA
C2005	ECJ1VF1C104Z	16V 0.1U	1	
C2011,12	ECJ1VB1C104K	16V 0.1U	2	



C2015	ECJ1XC1H102J	50V 1000P	1	
C2016	ECJ1XC1H821J	50V 820P	1	
C2021	ECJ1VB1H472K	50V 4700P	1	
C2023	ECJ1XC1H102J	50V 1000P	1	
C2031	ECJ1VF1A105Z	10V 1U	1	EXCEPT(GN)AREA
C2032	ECJ1VF1A105Z	10V 1U	1	
C2033	ECJ1VB0J105K	6.3V 1U	1	
C2034	ECUV1C153KBV	16V 0.015U	1	ECJ1VB1C153K
C2035	ECJ1VC1H221J	50V 220P	1	
C2036	ECJ1VB1C104K	16V 0.1U	1	
C2037	ECJ1XB1C103K	16V 0.01U	1	
C2051	F1H1C333A091	16V 0.033U	1	
C2052	ECJ1VC1H330J	50V 33P	1	
C2053	ECJ1VF1C104Z	16V 0.1U	1	
C2054	ECJ1VF1C104Z	16V 0.1U	1	EXCEPT(GN)AREA
C2055	ECJ1VF1C104Z	16V 0.1U	1	
C2056	ECJ1XB1C103K	16V 0.01U	1	
C2057	ECUX1H181JCV	50V 180P	1	ECJ1XC1H181J
C2058	ECJ1VB1C183K	16V 0.018U	1	
C2059	ECJ1VB1H562K	50V 5600P	1	
C2060	ECJ1VB1C104K	16V 0.1U	1	
C2501	F2A0J3310037	6.3V 330U	1	
C2502	EEUFC1C560	16V 56U	1	
C2503	ECEA1CKA220	16V 22U	1	
C2504-08	ECJ1VF1C104Z	16V 0.1U	5	
C2511,12	ECJ1VF1C104Z	16V 0.1U	2	
C2521	ECJ1VF1C104Z	16V 0.1U	1	EXCEPT(GN)AREA
C2522	ECJ1VF1C104Z	16V 0.1U	1	
C2531	ECJ1VF1C104Z	16V 0.1U	1	
C2601,02	F1E1H104A001	50V 0.1U	2	
C3001,02	F2A0J3310037	6.3V 330U	2	
C3004	ECJ1VF1C104Z	16V 0.1U	1	
C3006-08	ECJ1VF1C104Z	16V 0.1U	3	
C3009	ECJ1VF1C104Z	16V 0.1U	1	EXCEPT(GN)AREA

C3010	ECJ1VF1C104Z	16V 0.1U	1	
C3011	ECJ1VF1C104Z	16V 0.1U	1	EXCEPT(GN)AREA
C3012-18	ECJ1VF1C104Z	16V 0.1U	7	
C3019	ERJ3GEYJ331V	1/16W 330U	1	
C3020,21	ECJ1VF1C104Z	16V 0.1U	2	
C3024-26	ECJ1VF1C104Z	16V 0.1U	3	
C3028,29	ECJ1VF1C104Z	16V 0.1U	2	
C3031-33	ECJ1VF1C104Z	16V 0.1U	3	
C3051	ECJ1VB0J105K	6.3V 1U	1	
C3052	ECJ1VF1C104Z	16V 0.1U	1	
C3053	ECJ1VB0J105K	6.3V 1U	1	
C3054	ECJ1VF1C104Z	16V 0.1U	1	
C3055	ECJ1VB0J105K	6.3V 1U	1	
C3056	ECJ1VF1C104Z	16V 0.1U	1	
C3057	ECJ1VB0J105K	6.3V 1U	1	
C3058	ECJ1VF1C104Z	16V 0.1U	1	
C3059	ECJ1VB0J105K	6.3V 1U	1	
C3060	ECJ1VF1C104Z	16V 0.1U	1	
C3061	ECJ1VB0J105K	6.3V 1U	1	
C3062	ECJ1VF1C104Z	16V 0.1U	1	
C3101	ECA0JM331	6.3V 330U	1	
C3102-04	ECJ1VF1C104Z	16V 0.1U	3	
C3105,06	ECJ1VB0J105K	6.3V 1U	2	
C3107	ECJ1VF1C104Z	16V 0.1U	1	
C3501	F2A0J221A245	6.3V 220U	1	
C3502,03	ECJ1XF1H103Z	50V 0.01U	2	
C3504	ECJ1XB1H103K	50V 0.01U	1	
C3505,06	ECJ1VB1C104K	16V 0.1U	2	
C3507,08	ECJ1VB0J105K	6.3V 1U	2	
C3509	F2A0J102A247	6.3V 1000U	1	
C3510	F2A1A101A206	10V 100U	1	
C3511	F2A0J102A247	6.3V 1000U	1	
C3512	F2A1A101A206	10V 100U	1	
C3513	F2A0J102A247	6.3V 1000U	1	



C3514	F2A1A101A206	10V 100U	1	
C3515,16	ECA0JM331	6.3V 330U	2	
C3517	ECEA0JKS220	6.3V 22U	1	
C3531	ECJ1XB1H103K	50V 0.01U	1	
C3533,34	ECJ1XF1H103Z	50V 0.01U	2	
C3541-44	ECJ1VF1C104Z	16V 0.1U	4	
C4201	F2A0J102A247	6.3V 1000U	1	
C4202	F2A1E470A205	25V 47U	1	
C4206	F2A1E221A205	25V 220U	1	
C4208,09	ECJ1VF1C104Z	16V 0.1U	2	
C4301,02	F2A1E221A205	25V 220U	2	
C4305	ECJ1VF1C104Z	16V 0.1U	1	
C4308	ECJ1XF1E104Z	25V 0.1U	1	
C4312	ECJ1VC1H820G	50V 82P	1	
C4322	ECJ1VC1H820G	50V 82P	1	
C4401-04	ECJ1VF1C104Z	16V 0.1U	4	
C4409	ECJ1VF1C104Z	16V 0.1U	1	
C4411	F2A1E470A205	25V 47U	1	
C4412	ECJ1XC1H102J	50V 1000P	1	
C4421	F2A1E470A205	25V 47U	1	
C4422	ECJ1XC1H102J	50V 1000P	1	
C4491	F2A0J470A179	6.3V 47U	1	
C5101	ECEA0JKS220	6.3V 22U	1	
C5102-04	ECJ1VF1C104Z	16V 0.1U	3	
C5120	ECEA0JKA330	6.3V 33U	1	
C5121	ECJ1VF1C104Z	16V 0.1U	1	
C5122	ECEA1HKA4R7	50V 4.7U	1	
C5124	ECEA0JKA470	6.3V 47U	1	
C5131	ECJ1VF1C104Z	16V 0.1U	1	
C5134	ECEA0JKA470	6.3V 47U	1	
C5141,42	ECJ1VB1C104K	16V 0.1U	2	
C5232	ECEA1HKA4R7	50V 4.7U	1	
C6001	ECEA0GKS221	4V 220U	1	
C6002,03	ECJ1XF1C104Z	16V 0.1U	2	

C6005	ECEA1HKS100	50V 10U	1	
C6006	ECJ1XF1H103Z	50V 0.01U	1	
C6011,12	ECJ1XF1C104Z	16V 0.1U	2	
C6040	ECJ1XF1H103Z	50V 0.01U	1	
C6050	ECJ1XF1H103Z	50V 0.01U	1	
C6060	ECJ1XF1H103Z	50V 0.01U	1	
C6091	ECJ1XF1H103Z	50V 0.01U	1	
C6102	ECJ1XF1C104Z	16V 0.1U	1	
C6201	ECJ1VF1C104Z	16V 0.1U	1	
C6202	ECJ1VC1H101J	50V 100P	1	
C6251	ECJ1VB1C104K	16V 0.1U	1	
C6252	ECJ1VB0J105K	6.3V 1U	1	
C6253	ECJ1XB1C103K	16V 0.01U	1	
C6301	ECJ1VF1C104Z	16V 0.1U	1	
C6302	ECJ1VF1C104Z	16V 0.1U	1	EXCEPT(GN)AREA
C6351	ECJ1VF1C104Z	16V 0.1U	1	
C6561,62	F2A1A101A206	10V 100U	2	
C6563,64	ECJ1VF1C104Z	16V 0.1U	2	
C6565,66	ECJ1XC1H150J	50V 15P	2	
C6567	ECJ1VF1C104Z	16V 0.1U	1	
C6568	ECJ1XC1H150J	50V 15P	1	
D1002	ENC471D5A	DIODE	1	JOLG00000008 EXCEPT(PLA)AREA
D1002	ERZVA5Z471	DIODE	1	PLA
D1011	B0EBKT000003	DIODE	1	
D1021	VSD0002	DIODE	1	B0HAGR000005 PX,PL,GD,GCA,GC,GCU,GCS
D1031	AP01C	DIODE	1	B0HADV000010 GN,EE
D1031	VSD0002	DIODE	1	B0HAGR000005 PX,PL,GD,GCA,GC,GCU,GCS
D1032	B0BB20000001	DIODE	1	PLA
D1041	B0HAGM000006	DIODE	1	PLA
D1051,52	MA2C165001VT	DIODE	2	EXCEPT(PLA)AREA
D1053	MAZ40270LF	DIODE	1	EXCEPT(PLA)AREA
D1054	B0HAGM000006	DIODE	1	EXCEPT(PLA)AREA
D1101	MA7075A	DIODE	1	

D1111	21DQ06FC4	DIODE	1	B0JAMG000013 EXCEPT(PLA)AREA
D1111	B0JAME000033	DIODE	1	PLA
D1121	21DQ06FC4	DIODE	1	B0JAMG000013 EXCEPT(PLA)AREA
D1121	B0JAME000033	DIODE	1	PLA
D1122	B0EAKL000031	DIODE	1	GN,EE,PLA
D1122	RL1N4003N02	DIODE	1	B0AAMM000009 PX,PL,GD,GCA,GC,GCU,GCS
D1123	B0EAKL000031	DIODE	1	GN,EE,PLA
D1123	RL1N4003N02	DIODE	1	B0AAMM000009 PX,PL,GD,GCA,GC,GCU,GCS
D1125	MA2C165001VT	DIODE	1	
D1141	11EQS10TA1	DIODE	1	B0JAML000004 GN,EE
D1141	B0JAMG000010	DIODE	1	PLA
D1141	B0JAML000009	DIODE	1	PX,PL,GD,GCA,GC,GCU,GCS
D1142	MA7180A-TR	DIODE	1	MAZ71800AC EXCEPT(PLA)AREA
D1151	11EQS10TA1	DIODE	1	B0JAML000004 GN,EE
D1151	B0JAMG000010	DIODE	1	PLA
D1151	B0JAML000009	DIODE	1	PX,PL,GD,GCA,GC,GCU,GCS
D1152	11EQS10TA1	DIODE	1	B0JAML000004 GN,EE
D1152	B0JAMG000010	DIODE	1	PLA
D1152	B0JAML000009	DIODE	1	PX,PL,GD,GCA,GC,GCU,GCS
D1153	B0EAKL000031	DIODE	1	GN,EE,PLA
D1153	B0EAKM000086	DIODE	1	PX,PL,GD,GCA,GC,GCU,GCS
D1154	B0EAKL000031	DIODE	1	GN,EE,PLA
D1154	B0EAKM000086	DIODE	1	PX,PL,GD,GCA,GC,GCU,GCS
D1155	B0EAKL000031	DIODE	1	GN,EE,PLA
D1155	B0EAKM000086	DIODE	1	PX,PL,GD,GCA,GC,GCU,GCS
D1156	B0EAKL000031	DIODE	1	GN,EE,PLA
D1156	B0EAKM000086	DIODE	1	PX,PL,GD,GCA,GC,GCU,GCS
D1161	B0HAGM000006	DIODE	1	
D1171	B0JAME000037	DIODE	1	
D1191	MAZ40390HF	DIODE	1	
D5111	MA2J72800L	DIODE	1	
D6081	LNJ301MPUJAD	LED(ZOOM)	1	
D6091	MA4043M	DIODE	1	MAZ40430M
D6101	LNJ201LPQJA	LED	1	

DL6001	A2BB00000114	DISPLAY TUBE	1	
F1001	K5D162AQ0004	FUSE	1	PLA 
F1001	K5D162BK0005	FUSE	1	EXCEPT(PLA)AREA 
FC6002	REZ1529	FLAT CABLE	1	
FL5254	F1H0J1050018	FILTER	1	
FL6251	F1J1E1040022	FILTER	1	
FL6252,53	F1H0J1050018	FILTER	2	
FP2501	K1MN08B00066	CONNECTOR(8P)	1	
FP2601	K1MN08B00013	CONNECTOR(8P)	1	
FP2602	K1MN04B00022	CONNECTOR(4P)	1	
FP3501	K1MN13A00013	CONNECTOR(13P)	1	
FP5101	K1MN30B00025	CONNECTOR(30P)	1	
FP6003	K1MN13C00001	CONNECTOR(13P)	1	
IC1021	MIP0244SPSCF	IC	1	PLA
IC1101	C0DAEMZ00001	IC	1	
IC1151	C0DAZHG00026	IC	1	
IC2501	C0GBG0000033	IC	1	
IC3001	MN2DS0002AP1	IC	1	
IC3051	C3ABPJ000048	IC	1	
IC3501	C9ZB00000431	IC	1	
IC4201	C0FBBK000035	IC	1	
IC4311	C0ABBB000118	IC	1	
IC4491	K7AABB000001	IC	1	
IC6001	C2BBGE000655	IC	1	
IC6011	C0EBE0000274	IC	1	
IC6101	B3RAD0000049	IC	1	
IC6201	C0EBE0000070	IC	1	
IC6251	C0CBCBE00003	IC	1	
IC6301	RFKFSS71B160	IC	1	

IC6351	REP3579E-C	MAIN P.C.B.		PX
IC6351	REP3580D-C	MAIN P.C.B.		PLA,PL
IC6351	REP3580F-C	MAIN P.C.B.		GN,EE,GD,GCA,GC,GCU,GCS
IC6561	C1DB00000582	IC	1	EXCEPT(PX)AREA
IC6561	C1DB00000980	IC	1	PX
JK4401	K2YZ07000001	JACK,	1	
K2501	ERJ3GEY0R00V	1/16W 0	1	
K4902	ERJ3GEY0R00V	1/16W 0	1	EXCEPT(GN)AREA
K4913	ERJ3GEY0R00V	1/16W 0	1	
K6301,02	ERJ3GEY0R00V	1/16W 0	2	EXCEPT(GN)AREA
L1001	ELF15N003A	NOISE FILTER	1	EXCEPT(PLA)AREA
L1001	G0BR50A00001	NOISE FILTER	1	PLA
L1111	G0A100H00014	COIL 10UH	1	
L1115	ELELN100KA	COIL 10UH	1	
L1131	VLQEL05S330K	COIL 33UH	1	
L1141	VLQEL05S330K	COIL 33UH	1	
L1151	G0A220G00018	COIL 22UH	1	
L2001,02	G1C100K00020	COIL 10UH	2	
L3101	G1C100K00020	COIL 10UH	1	
L3501	ELESE220KA	COIL 22UH	1	
L4211	G1C220KA0038	COIL 22UH	1	
L4301	ELESE391KA	COIL 390UH	1	
L5121	G1C100K00020	COIL 10UH	1	
L6001	G0C101JA0019	COIL 100UH	1	
L6561,62	G1C220KA0038	COIL 22UH	2	
LB1021	J0JKB0000003	COIL	1	PLA
LB2521,22	J0JBC0000015	COIL	2	
LB3001,02	J0JHC0000045	COIL	2	
LB3505-07	ERJ3GEYJ101	1/16W 100	3	D0GB101JA002
LB3508,09	J0JBC0000015	COIL	2	
LB3511-14	J0JBC0000015	COIL	4	

LB3531-33	J0JBC0000015	COIL	3	
LB3534	J0JCC0000186	COIL	1	
LB3535,36	J0JBC0000015	COIL	2	
LB4200	J0JBC0000015	COIL	1	
LB5101	ERJ3GEY0R00V	1/16W 0	1	
LB5102	J0JBC0000015	COIL	1	
LB5103	ERJ3GEY0R00V	1/16W 0	1	
LB5104	J0JHC0000045	COIL	1	
LB5105	J0JCC0000119	COIL	1	
LB5106,07	J0JBC0000015	COIL	2	
LB5108-11	ERJ3GEY0R00V	1/16W 0	4	
LB5233	J0JHC0000045	COIL	1	
LB6151-54	ERJ3GEY0R00V	1/16W 0	4	
LB6251	J0JCC0000119	COIL	1	
LB6301	J0JHC0000045	COIL	1	
LB6561	J0JBC0000015	COIL	1	
LB6562	J0JCC0000167	COIL	1	
LB6564	J0JCC0000077	COIL	1	
LB6566	J0JBC0000015	COIL	1	
LR1041	J1ZZA0000001	COIL	1	EXCEPT(PLA)AREA
P1001	K2AA2B000004	AC INLET	1	EXCEPT(PLA)AREA 
P1001	K2AB2B000002	AC INLET	1	PLA 
P2511	K1KA02A00010	CONNECTOR(2P)	1	
PC1	RPGC0098	PACKING CASE	1	GCS
PC1	RPGC0099	PACKING CASE	1	GCU
PC1	RPGC0100	PACKING CASE	1	GD
PC1	RPGC0101	PACKING CASE	1	GC
PC1	RPGC0102	PACKING CASE	1	GN
PC1	RPGC0103	PACKING CASE	1	PX
PC1	RPGC0104	PACKING CASE	1	PL
PC1	RPGC0105	PACKING CASE	1	EE-S

PC1	RPGC0106	PACKING CASE	1	EE-K
PC1	RPGC0135	PACKING CASE	1	PLA
PC1	RPGC0136	PACKING CASE	1	GCA
<u>PC2</u>	RPNC0020A-J	CUSHION(L)	1	
<u>PC3</u>	RPNC0020B-J	CUSHION(R)	1	
<u>PC4</u>	VPF0293-L	POLYETHYLENE BAG	1	
PP1101	K1KB12A00064	CONNECTOR(12P)	1	
PP6001	K1KA06B00126	CONNECTOR(6P)	1	
PR1161	VSF0015A025	IC PROTECTOR	1	PX,PL,GD,GCA,GC,GCU,GCS ⚠
PR1171	B1ZAZ0000030	IC PROTECTOR	1	⚠
PS1102	K1KB06B00033	CONNECTOR(FEMALE) 6P	1	
PS6203	K1MN10A00030	CONNECTOR(FEMALE)10P	1	
PS6251	TJS5A8670	CONNECTOR(FEMALE)12P	1	K1KA12A00153
Q1021	B1DEDT000001	TRANSISTOR	1	EXCEPT(PLA)AREA
Q1031	B1DEDQ000014	TRANSISTOR	1	PX,PL,GD,GCA,GC,GCU,GCS
Q1051	B3QAZ0000028	TRANSISTOR	1	
Q1052	2SD1996-S	TRANSISTOR	1	2SD19960SA EXCEPT(PLA)AREA
Q1062	2SC3311AS	TRANSISTOR	1	EXCEPT(PLA)AREA
Q1116	B1DGDD000002	TRANSISTOR	1	
Q1125	2SB14170JA	TRANSISTOR	1	
Q1127,28	2SC3311AS	TRANSISTOR	2	
Q1155	2SB14170JA	TRANSISTOR	1	
Q1191	2SD1992AHA	TRANSISTOR	1	
Q2101	UNR511M00L	TRANSISTOR	1	
Q4402	2SD0601ARL	TRANSISTOR	1	
Q4411	2SD0601ARL	TRANSISTOR	1	
Q4421	2SD0601ARL	TRANSISTOR	1	
Q5111	2SB766A-R	TRANSISTOR	1	
Q5121	2SD1819A0L	TRANSISTOR	1	
Q5122	2SB766A-R	TRANSISTOR	1	

Q5221	2SD1819A0L	TRANSISTOR	1	
Q6091	2SD132800L	TRANSISTOR	1	
QR1115	UN4213	TRANSISTOR	1	UNR4213
QR1156	UN4213	TRANSISTOR	1	UNR4213
QR3521	UN2212	TRANSISTOR	1	UNR2212
QR4401	UN2211	TRANSISTOR	1	UNR2211 EXCEPT(GN)AREA
QR4401	UNR221100L	TRANSISTOR	1	GN
QR4403	XN0431100L	TRANSISTOR	1	
QR5111	UNR212100L	TRANSISTOR	1	
QR6081	UNR211M00L	TRANSISTOR	1	
QR6101	UNR221M00L	TRANSISTOR	1	
R1001	ERDS2FJ105	1/4W 1M	1	PLA
R1001	ERDS2FJ474	1/4W 470K	1	EXCEPT(PLA)AREA
R1002	ERDS2FJ105	1/4W 1M	1	PLA
R1002	ERDS2FJ474	1/4W 470K	1	EXCEPT(PLA)AREA
R1031,32	ERDS2FJ224	1/4W 220K	2	GN,EE
R1033	ERDS2FJ101	1/4W 100	1	PX,PL,GD,GCA,GC,GCU,GCS
R1034	ERDS2FJ102	1/4W 1K	1	PX,PL,GD,GCA,GC,GCU,GCS
R1041,42	ERDS2FJ684	1/4W 680K	2	EXCEPT(PLA)AREA
R1043	ERG2SJ331E	2W 330	1	EXCEPT(PLA)AREA
R1051	ERDS2FJ750	1/4W 75	1	EXCEPT(PLA)AREA
R1051	ERDS2TJ6R2	1/4W 6.2	1	PLA
R1052	ERDS2FJ2R2	1/4W 2.2	1	EXCEPT(PLA)AREA
R1052	ERDS2TJ6R2	1/4W 6.2	1	PLA
R1053	ERDS2FJ331	1/4W 330	1	EXCEPT(PLA)AREA
R1054	ER0S2CKG1501	1/4W 1.5K	1	EROS2CKG1501 EE
R1054	ER0S2CKG1801	1/4W 1.8K	1	PX,PL,GD,GCA,GC,GCU,GCS
R1054	ER0S2TKG1501	1/4W 1.5K	1	GN
R1055	ERDS2FJ683	1/4W 68K	1	EXCEPT(PLA)AREA
R1061	ERDS2TJ205	1/4W 2M	1	PLA
R1061	ERX1SJR56E	1W 56	1	EXCEPT(PLA)AREA
R1062	ERDS2FJ101	1/4W 100	1	EXCEPT(PLA)AREA
R1062	ERDS2TJ205	1/4W 2M	1	PLA


R1063	ERDS2TJ682	1/4W 6.8K	1	PLA
R1101	ERDS2FJ750	1/4W 75	1	
R1102	ER0S2CKF1201	1/4W 1.2K	1	EROS2CKF1201 EXCEPT(GN)AREA
R1102	ER0S2THF1201	1/4W 1.2K	1	GN
R1103	ER0S2CKF1201	1/4W 1.2K	1	EROS2CKF1201 EXCEPT(GN)AREA
R1103	ER0S2THF1201	1/4W 1.2K	1	GN
R1104	ERDS2FJ561	1/4W 560	1	
R1105	ERDS2FJ271	1/4W 270	1	
R1106	ERDS2TJ392	1/4W 3.9K	1	
R1107	ERDS2FJ472	1/4W 4.7K	1	
R1115	ERDS2FJ104	1/4W 100K	1	
R1116	ERDS2FJ102	1/4W 1K	1	
R1125	ER0S2CKF1301	1/4W 1.3K	1	EXCEPT(GN)AREA
R1125	ER0S2THF1301	1/4W 1.3K	1	GN
R1126	ER0S2CKF1201	1/4W 1.2K	1	EROS2CKF1201 EXCEPT(GN)AREA
R1126	ER0S2THF1201	1/4W 1.2K	1	GN
R1127	ER0S2CKF1201	1/4W 1.2K	1	EROS2CKF1201 EXCEPT(GN)AREA
R1127	ER0S2THF1201	1/4W 1.2K	1	GN
R1128	ERDS2FJ151	1/4W 150	1	
R1152	ERDS2FJ151	1/4W 150	1	
R1153	ERDS2FJ222	1/4W 2.2K	1	
R1155	ERDS2FJ331	1/4W 330	1	
R1156	ERDS2FJ391	1/4W 390	1	
R1161	ERDS2FJ104	1/4W 100K	1	
R1181	ERDS2FJ101	1/4W 100	1	
R1191	ERDS2FJ221	1/4W 220	1	
R1192	ERDS2FJ680	1/4W 68	1	
R2011	ERJ3GEY0R00V	1/16W 0	1	EXCEPT(GN)AREA
R2012	ERJ3GEYJ752V	1/16W 7.5K	1	
R2013	ERJ3GEY0R00V	1/16W 0	1	
R2014	ERJ3GEYJ752V	1/16W 7.5K	1	
R2015	ERJ3GEY0R00V	1/16W 0	1	
R2016	ERJ3GEYJ822V	1/16W 8.2K	1	D0GB822JA002
R2017	ERJ3GEY0R00V	1/16W 0	1	

R2018	ERJ3GEYJ822V	1/16W 8.2K	1	D0GB822JA002
R2021	ERJ3GEYD153V	1/16W 15K	1	D0HB153ZA002
R2022	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R2023	ERJ3GEYD153V	1/16W 15K	1	D0HB153ZA002
R2031	ERJ3GEYJ683V	1/16W 68K	1	D0GB683JA002
R2032	ERJ3GEYJ102V	1/16W 1K	1	
R2033	ERJ3RBD153	1/16W 15K	1	
R2051	ERJ3RBD392	1/16W 3.9K	1	
R2052	ERJ3GEY0R00V	1/16W 0	1	
R2101	ERJ3GEYJ823V	1/16W 82K	1	D0GB823JA002
R2102	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R2501	ERJ6GEYJ6R8V	1/10W 6.8	1	
R2511	ERJ3GEYD153V	1/16W 15K	1	D0HB153ZA002
R2512,13	ERJ3GEYJ823V	1/16W 82K	2	D0GB823JA002
R2514	ERJ3GEYD153V	1/16W 15K	1	D0HB153ZA002
R2515	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R2521	ERJ3GEYJ221V	1/16W 220	1	
R2531	ERJ3GEYJ202V	1/16W 2K	1	
R2532	ERJ3GEYJ102V	1/16W 1K	1	
R3001	J0JCC0000119	COIL	1	
R3002	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3011	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3013	ERJ3GEY0R00V	1/16W 0	1	
R3022	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3041	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R3043	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R3101	ERJ3RBD153	1/16W 15K	1	
R3102	ERJ3RBD272	1/16W 2.7K	1	
R3103	ERJ3RBD203V	1/16W 20K	1	
R3104	ERJ3RBD222V	1/16W 2.2K	1	
R3105	D0GB152ZA008	1/16W 1.5K	1	
R3111	ERJ3RED620V	1/16W 62	1	
R3112	ERJ3RED150V	1/16W 15	1	
R3116	ERJ3RED620V	1/16W 62	1	

R3117	ERJ3RED130	1/16W 13	1	PX,PLA,PL
R3117	ERJ3RED150V	1/16W 15	1	GN,EE,GD,GCA,GC,GCU,GCS
R3121	ERJ3RBD101	1/16W 100	1	ERJ3RBD101V
R3122	ERJ3RED160V	1/16W 16	1	
R3126	ERJ3RED560V	1/16W 56	1	
R3131	ERJ3RED560V	1/16W 56	1	
R3521	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R3522	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R3531	ERJ3GEYF750	1/16W 75	1	
R3532	ERJ3GEYJ750	1/16W 75	1	
R3533,34	ERJ3GEYF750	1/16W 75	2	
R3535,36	ERJ3GEYJ750	1/16W 75	2	
R4201	ERJ3GEYJ470V	1/16W 47	1	
R4202	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4301	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R4302	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R4303	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R4312	D0HB752ZA002	1/16W 7.5K	1	
R4313	D0HB153ZA002	1/16W 15K	1	
R4322	D0HB752ZA002	1/16W 7.5K	1	
R4323	D0HB153ZA002	1/16W 15K	1	
R4401	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R4402	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R4403	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R4411	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R4412	ERJ3GEYJ102V	1/16W 1K	1	
R4413	ERJ3GEYJ821V	1/16W 820	1	
R4414	ERJ3GEYJ221V	1/16W 220	1	
R4421	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R4422	ERJ3GEYJ102V	1/16W 1K	1	
R4423	ERJ3GEYJ821V	1/16W 820	1	
R4424	ERJ3GEYJ221V	1/16W 220	1	
R5101	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R5102	ERJ3GEYJ560V	1/16W 56	1	

R5103	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R5104	ERJ3GEYJ560V	1/16W 56	1	
R5105	ERJ3GEYJ102V	1/16W 1K	1	
R5106	ERJ3GEYJ472V	1/16W 4.7K	1	
R5121	ERJ3GEY0R00V	1/16W 0	1	
R5122	ERJ3GEYJ102V	1/16W 1K	1	
R5123	ERJ3GEYJ331V	1/16W 330U	1	
R5124	ERJ3GEYJ560V	1/16W 56	1	
R5125	ERJ3GEYJ2R2V	1/16W 2.2	1	D0GB2R2JA002
R5126	ERJ12YJ270H	1/2W 27	1	EXCEPT(GN)AREA
R5127	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R5128	ERJ3GEYJ223V	1/16W 22K	1	D0GB223JA002
R5131	ERJ3GEY0R00V	1/16W 0	1	
R5132	ERJ3GEYJ102V	1/16W 1K	1	
R5133	ERJ3GEYJ331V	1/16W 330U	1	
R5134	ERJ3GEYJ560V	1/16W 56	1	
R5135	ERJ3GEYJ2R2V	1/16W 2.2	1	D0GB2R2JA002
R5136	ERJ12YJ270H	1/2W 27	1	
R5137	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R6001	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6002	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R6021	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6022	ERJ3GEY0R00V	1/16W 0	1	
R6023	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6024	ERJ3GEYJ122	1/16W 1.2K	1	GN,PX,GD,GCA,GC,GCU,GCS
R6024	ERJ3GEYJ272V	1/16W 2.7K	1	EE,PLA,PL
R6025	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6026	ERJ3GEY0R00V	1/16W 0	1	PX,PLA,PL
R6026	ERJ3GEYD153V	1/16W 15K	1	D0HB153ZA002 GCA,GC
R6026	ERJ3GEYJ272V	1/16W 2.7K	1	EE
R6026	ERJ3GEYJ472V	1/16W 4.7K	1	GN
R6026	ERJ3GEYJ822V	1/16W 8.2K	1	D0GB822JA002 GD,GCU,GCS
R6040	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6041	ERJ3GEYJ122	1/16W 1.2K	1	

R6050	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6051	ERJ3GEYJ122	1/16W 1.2K	1	
R6052	ERJ3GEYJ152V	1/16W 1.5K	1	
R6053	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R6054	ERJ3GEYJ332V	1/16W 3.3K	1	D0GB332JA002
R6060	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6061	ERJ3GEYJ122	1/16W 1.2K	1	
R6062	ERJ3GEYJ152V	1/16W 1.5K	1	
R6063	ERJ3GEYJ222V	1/16W 2.2K	1	D0GB222JA002
R6071	ERJ3GEYJ303V	1/16W 30K	1	
R6072	ERJ3GEYJ473V	1/16W 47K	1	D0GB473JA002
R6081	ERJ3GEYJ820V	1/16W 82	1	
R6091	ERJ3GEYJ822V	1/16W 8.2K	1	D0GB822JA002
R6092	ERJ3GEYJ104	1/16W 100K	1	
R6101	ERJ3GEYJ820V	1/16W 82	1	
R6201	ERJ3GEYJ472V	1/16W 4.7K	1	
R6351	ERJ3GEYJ101	1/16W 100	1	D0GB101JA002
R6562	ERJ3RBD391	1/16W 390	1	ERJ3RBD391V
R6563	ERJ3GEYJ103V	1/16W 10K	1	D0GB103JA002
R6564	ERJ3GEYJ100	1/16W 10	1	
R6565,66	ERJ3GEYJ470V	1/16W 47	2	
R6567	ERJ3GEY0R00V	1/16W 0	1	
RA2511	EXB28V473JX	RESISTOR-RESISTOR	1	
RA3001-04	EXB28V820JX	RESISTOR-RESISTOR	4	
RA3005	EXB24V220J	RESISTOR-RESISTOR	1	
RA3009-12	EXB28V820JX	RESISTOR-RESISTOR	4	
RA3021	EXB24V103JX	RESISTOR-RESISTOR	1	
RA3025	EXB24V102JX	RESISTOR-RESISTOR	1	
RA3042	EXB24V101JX	RESISTOR-RESISTOR	1	
RA5101	EXB28V560J	RESISTOR-RESISTOR	1	
RA5102,03	EXB24V560JX	RESISTOR-RESISTOR	2	
RA6201	EXB24V472JX	RESISTOR-RESISTOR	1	
RA6351	EXB24V472JX	RESISTOR-RESISTOR	1	

S6041	EVQ11G07K	SWITCH(OPEN/CLOSE)	1	
S6050	EVQ11G07K	SWITCH(FWD-SKIP)	1	
S6051	EVQ11G07K	SWITCH(RVS-SKIP)	1	
S6052	EVQ11G07K	SWITCH(ZOOM)	1	
S6053	ESE24SH7	SWITCH(Z.SMALL-LARGE)	1	
S6060	EVQ11G07K	SWITCH(PAUSE)	1	
S6061	EVQ11G07K	SWITCH(PLAY)	1	
S6062	EVQ11G07K	SWITCH(STOP)	1	
S6063	EVQ11G07K	SWITCH(QUICK REPLAY)	1	
S6101	EVQ11G07K	SWITCH(POWER)	1	
SW2601	RSH1A048-A	DOUBLE SWITCH	1	
T1021	ETS28AV183AC	TRANSFORMER	1	PLA 
T1021	ETS28AV196AC	TRANSFORMER	1	GN,EE 
T1021	ETS28AV1B6AC	TRANSFORMER	1	PX,PL,GD,GCA,GC,GCU,GCS 
W101	ERJ6GEY0R00V	1/10W 0	1	
W102	ERJ3GEY0R00V	1/16W 0	1	
W103	D0GZR00J0001	1/8W 0	1	
W104	ERJ6GEY0R00V	1/10W 0	1	
W105,06	D0GZR00J0001	1/8W 0	2	
W107	ERJ3GEY0R00V	1/16W 0	1	
W108	D0GZR00J0001	1/8W 0	1	
W110	ERJ3GEY0R00V	1/16W 0	1	
W111	ERJ6GEY0R00V	1/10W 0	1	
W112	ERJ3GEY0R00V	1/16W 0	1	
W3001,02	ERJ14Y0R00	1/4W 0	2	EXCEPT(PX)AREA
W3003	ERJ12Y0R00U	1/2W 0	1	EXCEPT(PX)AREA
X6001	H2D800400009	CERAMIC OSCILLATOR	1	
X6501	H0H368600001	CRYSTAL OSCILLATOR	1	
ZA1001,02	EYF52BC	FUSE HOLDER	2	
ZA1011	RMCC0001	EARTH SPRING	1	

ZA1111,12	K4CZ01000027	TERMINAL	2	
ZA3002	RMCC0001	EARTH SPRING	1	

[TOP](#) [PREVIOUS](#) [NEXT](#)

20 Schematic Diagram for printing with A4 size

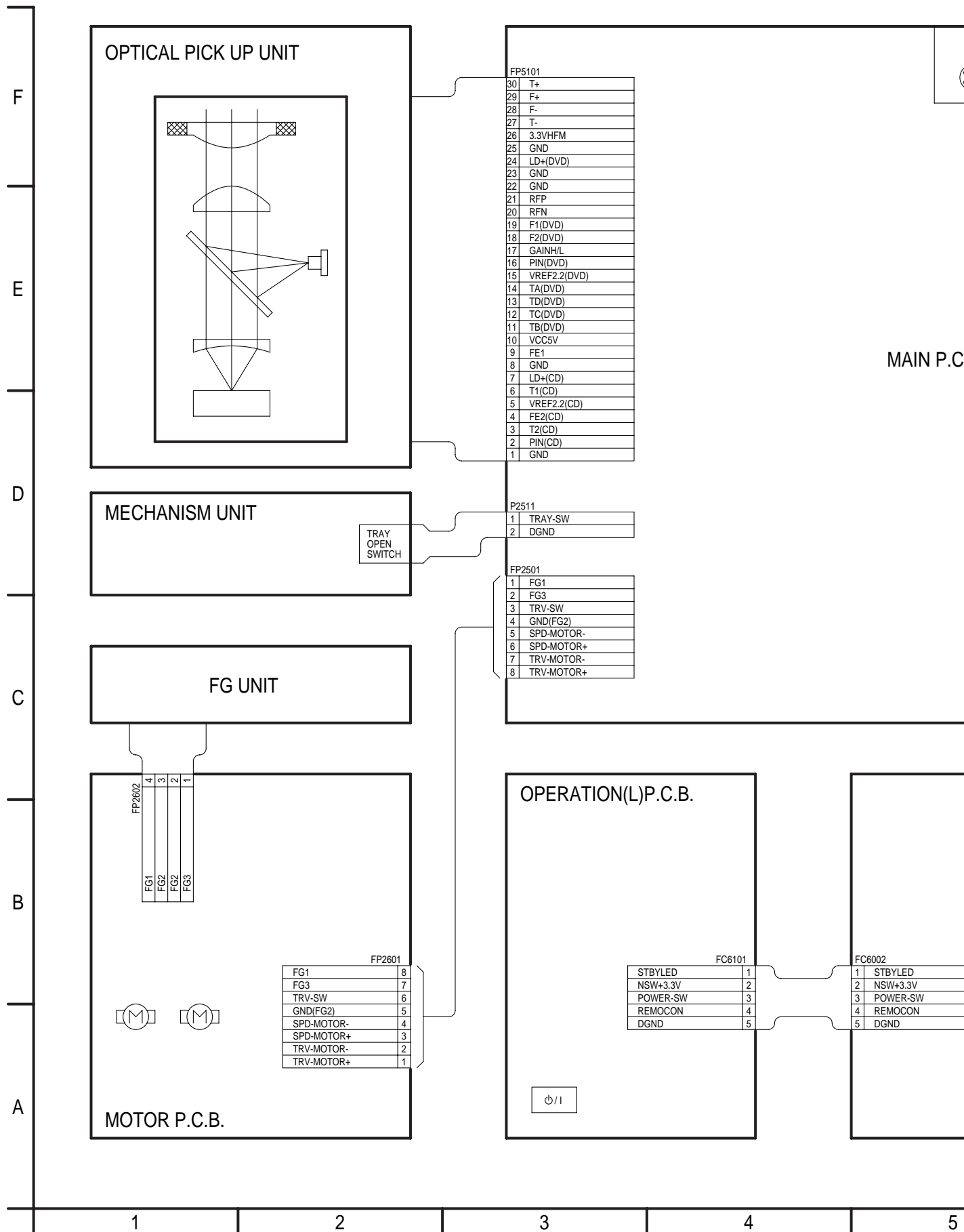
[TOP PREVIOUS](#)



[TOP PREVIOUS](#)

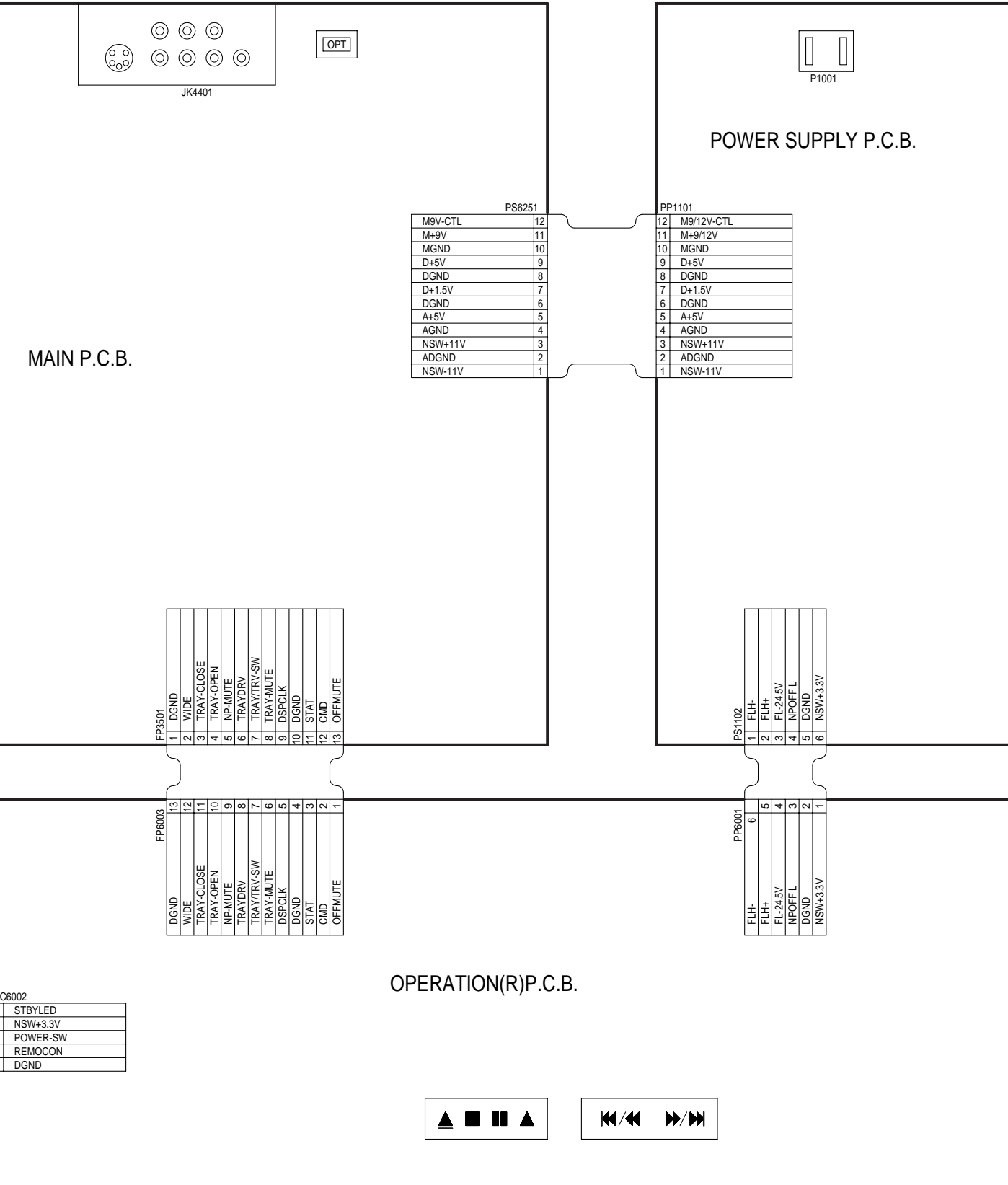
15 INTERCONNECTION SCHEMATIC DIAGRAM & SCHEMATIC D

15.1. INTERCONNECTION SCHEMATIC DIAGRAM





INTERCONNECTION SCHEMATIC DIAGRAM NOTES



DVD-S35GCS/GCU/GC/GCA/GD/EE/GN/PL/PLA/PX INTERCONNECTION SCHEMATIC DIAGRAM

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15.2. SCHEMATIC DIAGRAM NOTES

This schematic diagram may be modified at any time with the development of new technology.

Important safety notice:

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

Furthermore, special parts which have purpose of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacture's specified parts shown in the parts list.

Important safety notice:

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

These parts are marked by \triangle in the schematic diagrams. 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.

Caution!

IC and LSI are sensitive to static electricity.

Secondary trouble can be prevented by taking care during repair.

Cover the parts boxes made of plastics with aluminum foil.

Ground the soldering iron.

Put a conductive mat on the work table.

Do not touch the legs of IC or LSI with the fingers directly.

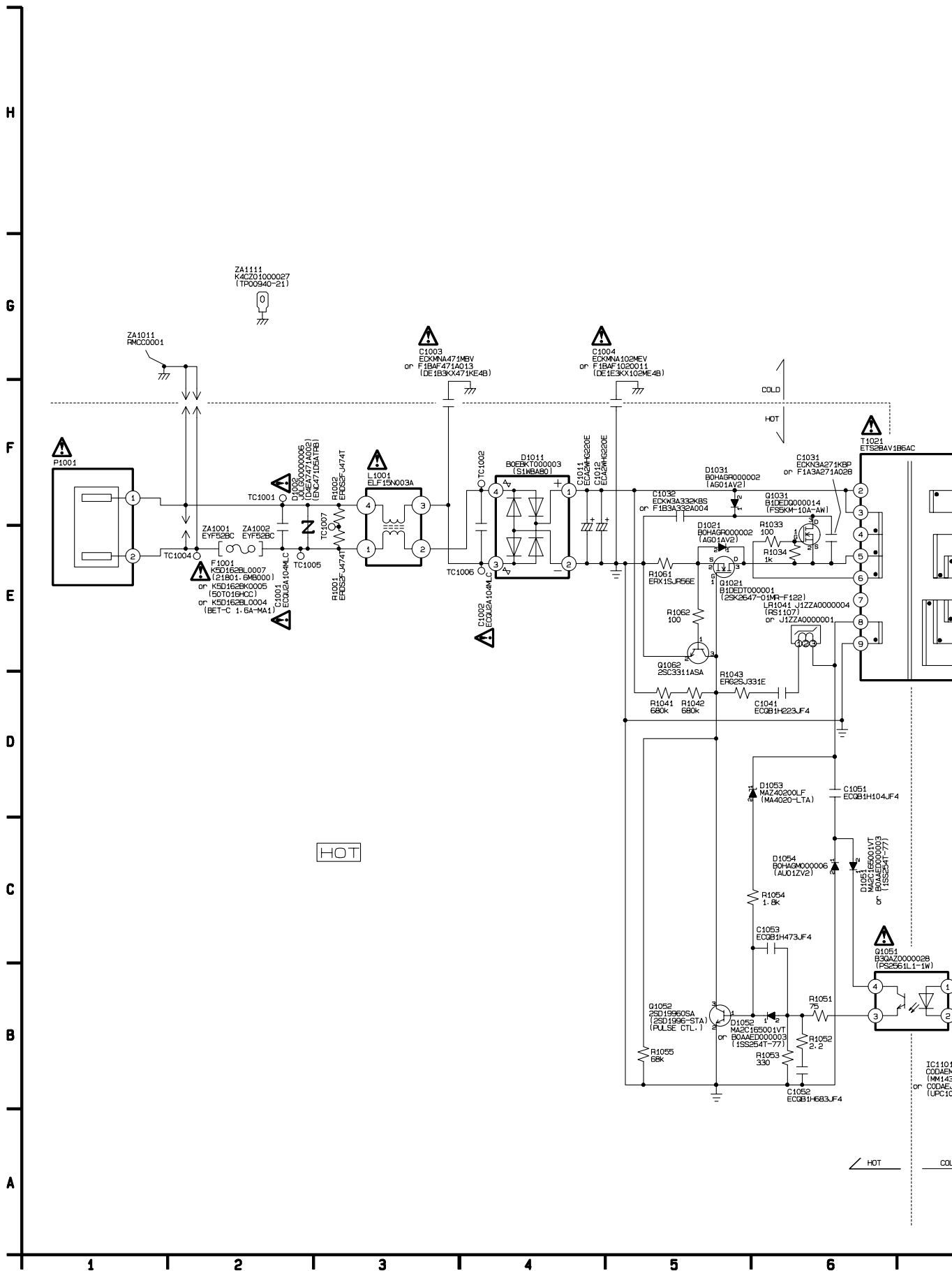


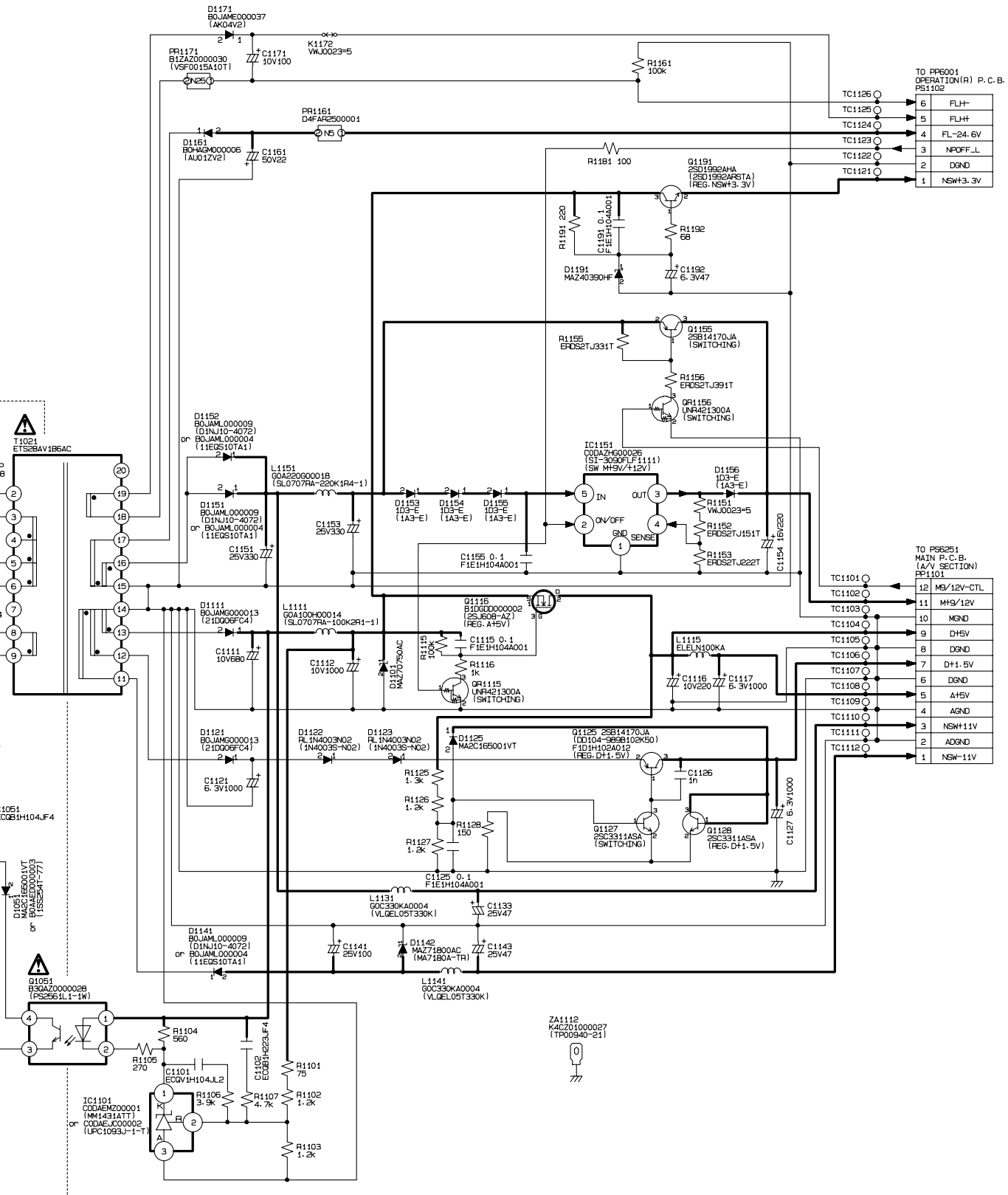
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16 SCHEMATIC DIAGRAM

16.1. POWER SUPPLY SCHEMATIC DIAGRAM (DVD-S35GCS/GCU/GC/GCA/GD/P)





TO PFE001
OPERATION (R) P. C. B.
PS1102

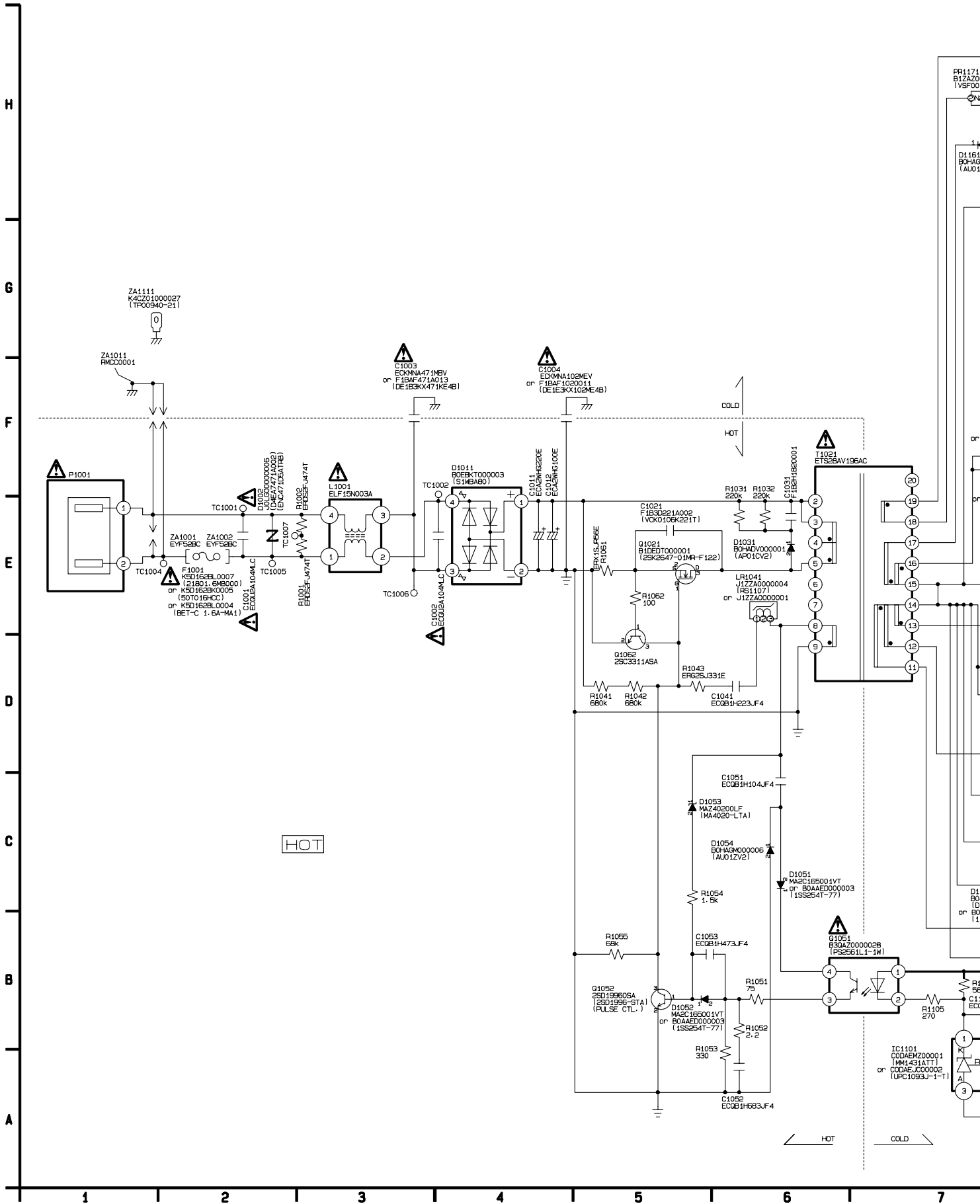
TC1126	6	FLH+
TC1125	5	FLH-
TC1124	4	FL-24.6V
TC1123	3	NPOFF_L
TC1122	2	D9ND
TC1121	1	NSW+3.3V

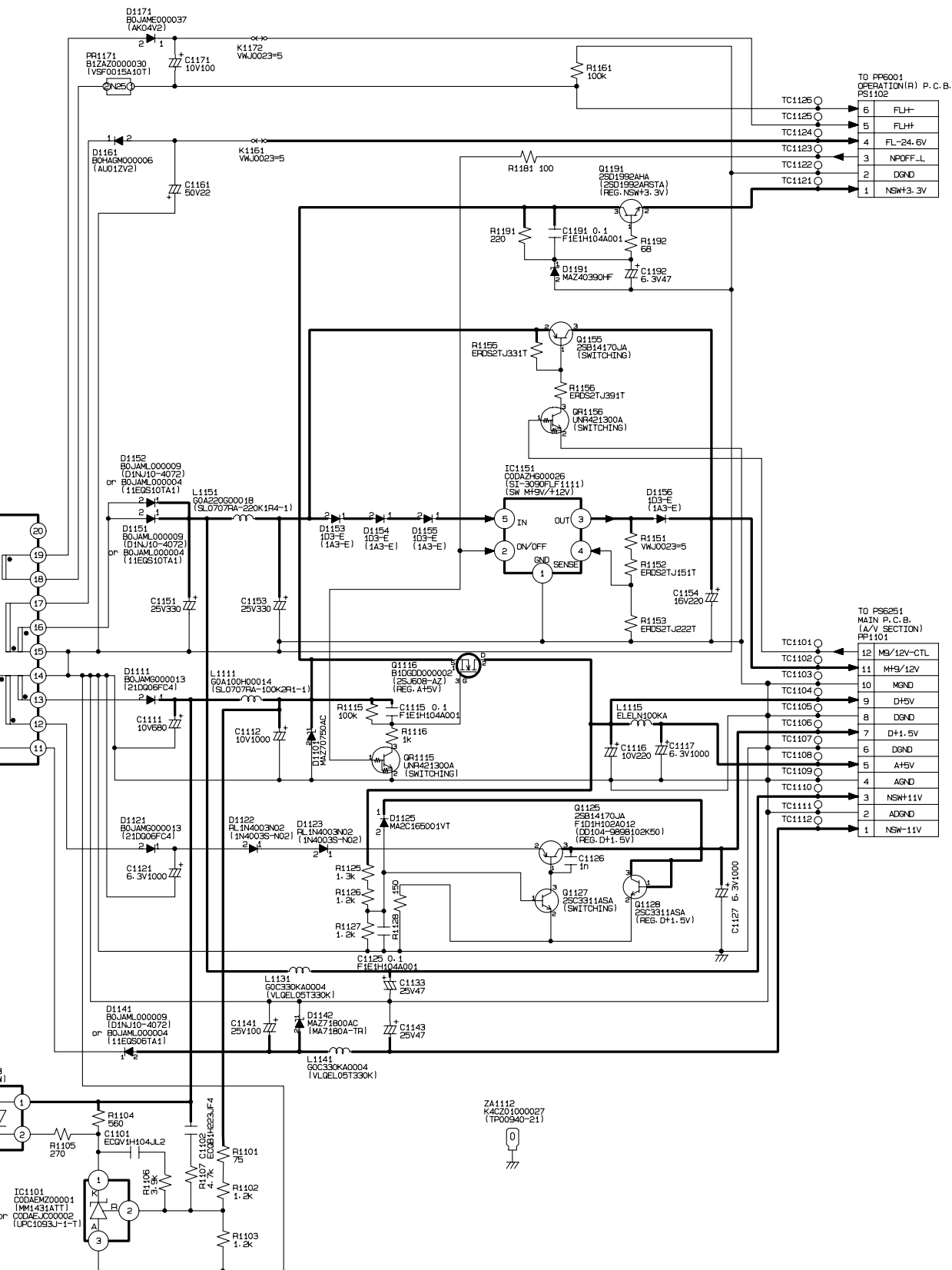
TO PSE251
MAIN P. C. B.
(A/V SECTION)
PP1101

TC1101	12	M9/12V-CTL
TC1102	11	M9/12V
TC1103	10	M9ND
TC1104	9	D9ND
TC1105	8	D9ND
TC1106	7	D+1.5V
TC1107	6	D9ND
TC1108	5	A+5V
TC1109	4	ASND
TC1110	3	NSW+11V
TC1111	2	AD9ND
TC1112	1	NSW-11V

DVD-S35GCS/GCU/GC/GCA/GD/PL/PX
POWER SUPPLY SCHEMATIC DIAGRAM

16.2. POWER SUPPLY SCHEMATIC DIAGRAM (DVD-S35EE/GN)

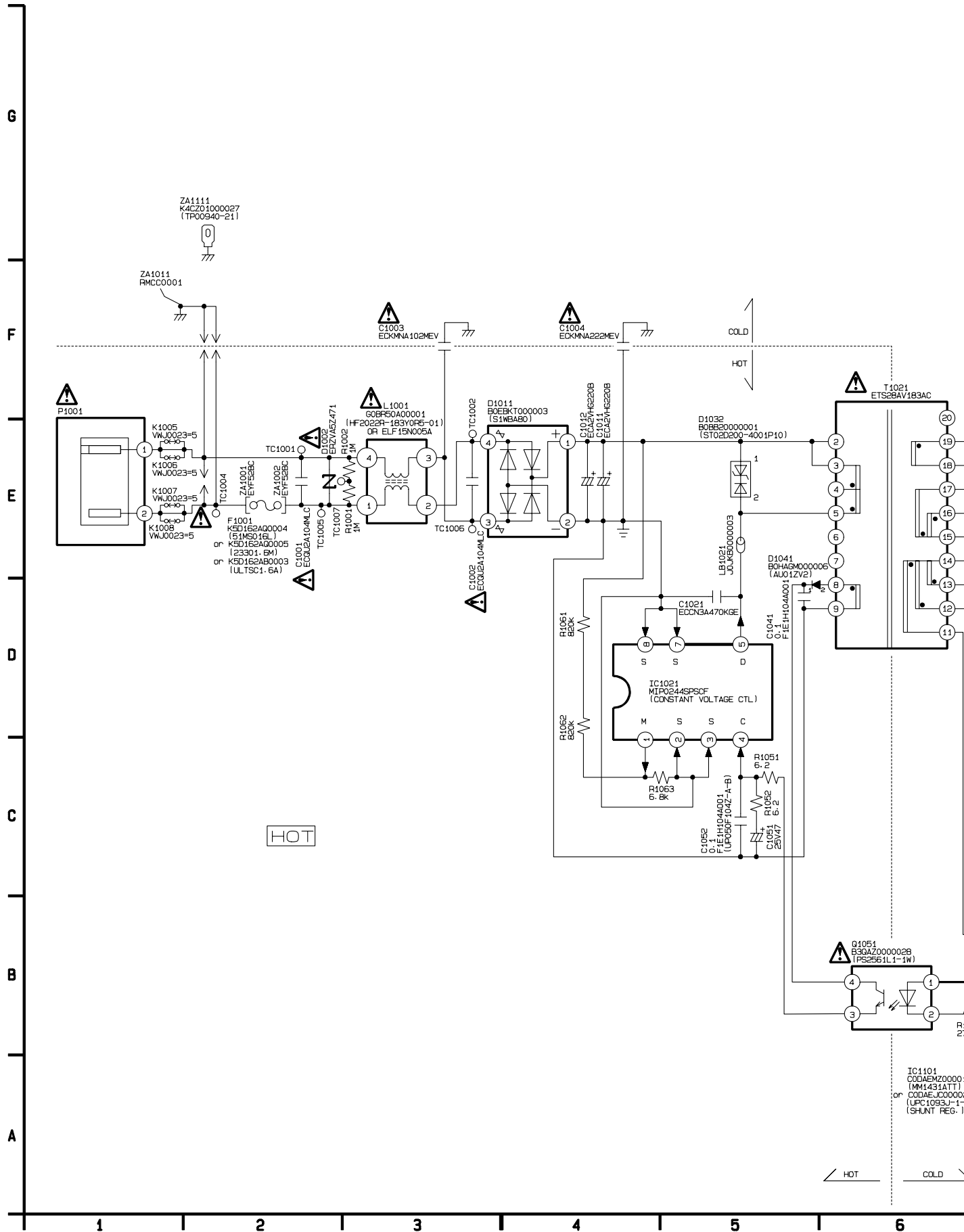


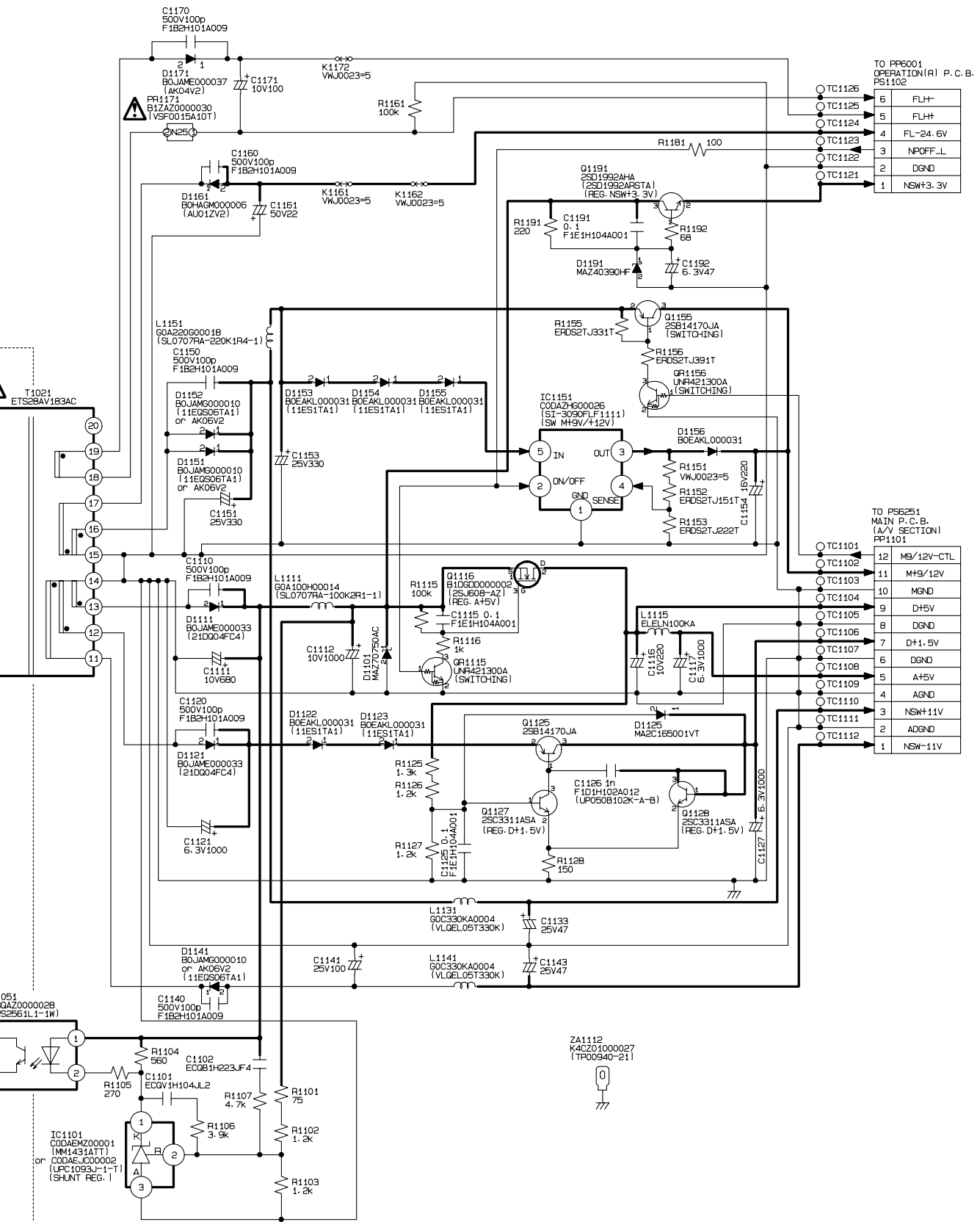


DVD-S35EE/GN
POWER SUPPLY SCHEMATIC DIAGRAM

7 8 9 10 11 12

16.3. POWER SUPPLY SCHEMATIC DIAGRAM (DVD-S35PLA)





TO P66001
OPERATION(R) P.C.B.
PS1102

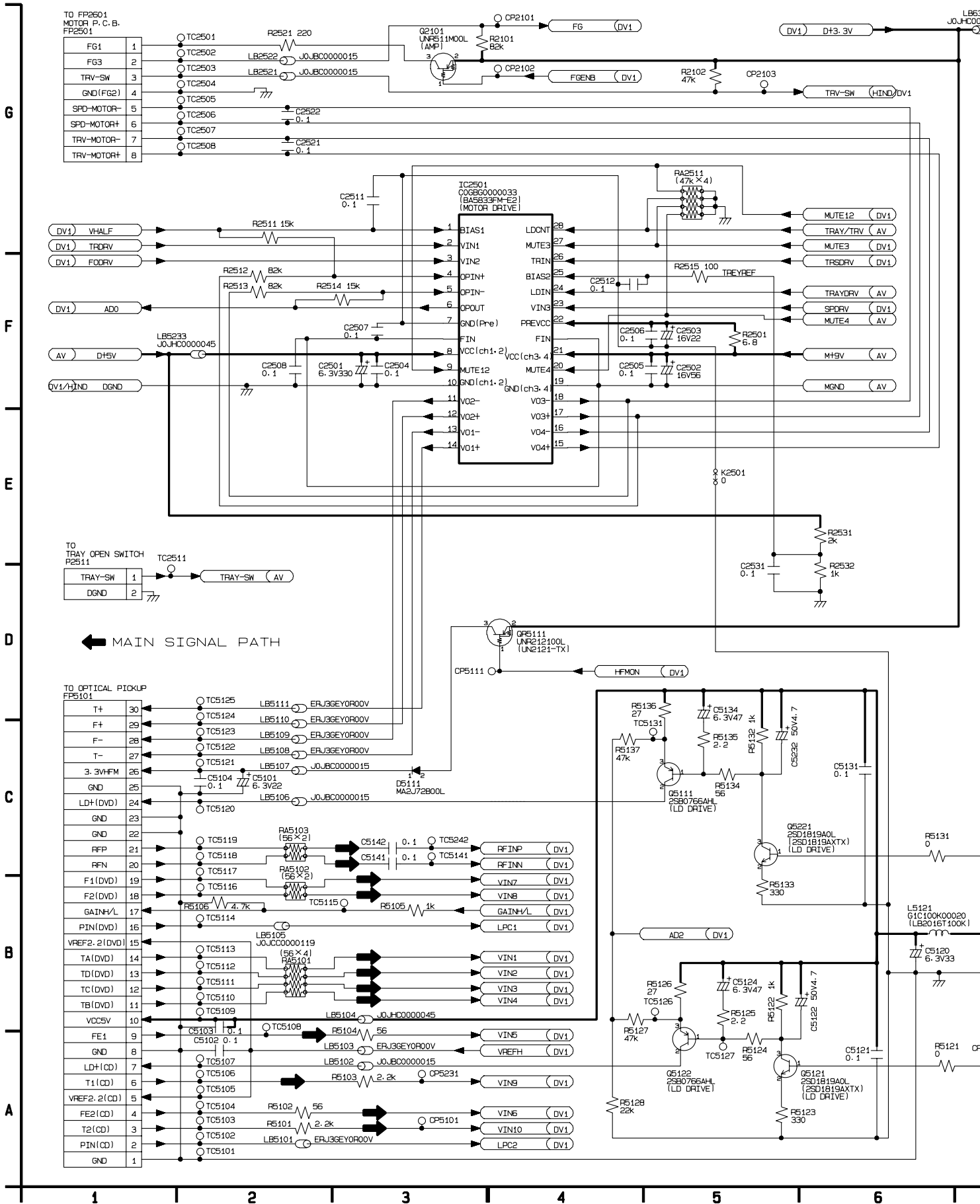
6	FLH+
5	FLH+
4	FL-24.6V
3	NPOFF_L
2	DGND
1	NSW+3.3V

TO P56251
MAIN P.C.B.
(A/V SECTION)
PP1101

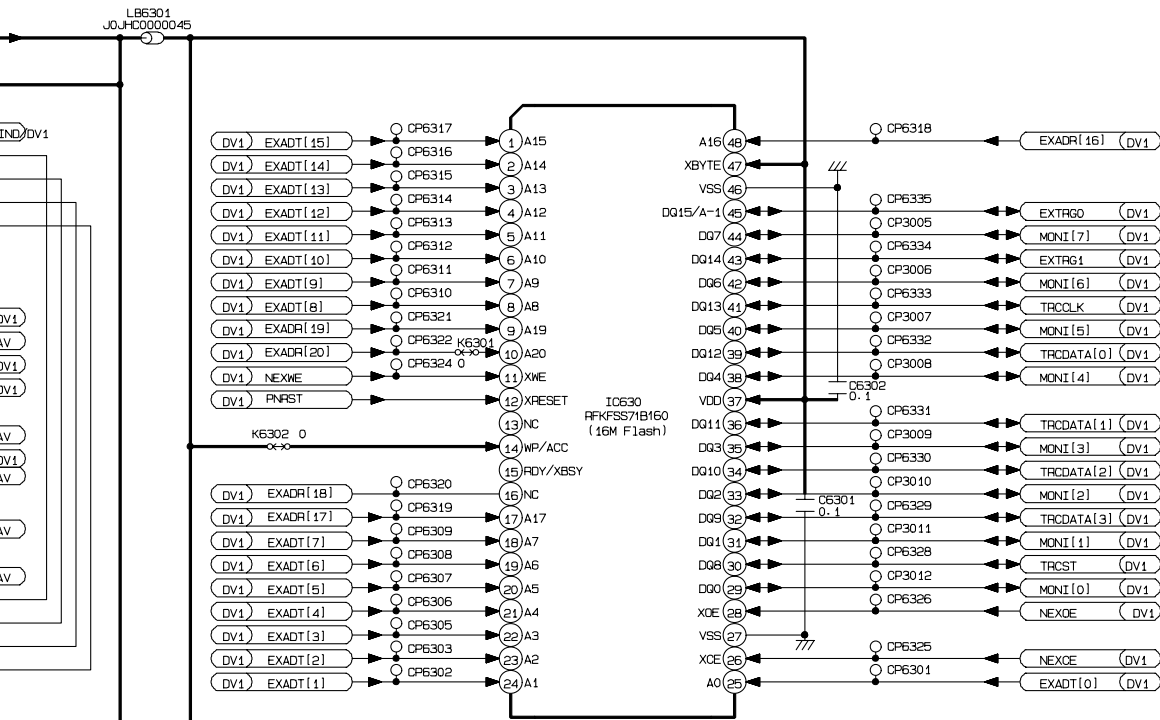
12	MB/12V-CTL
11	MH9/12V
10	MGND
9	D+5V
8	DGND
7	D+1.5V
6	DGND
5	A+5V
4	AGND
3	NSW+11V
2	ADGND
1	NSW-11V

DVD-S35PLA
POWER SUPPLY
SCHEMATIC DIAGRAM

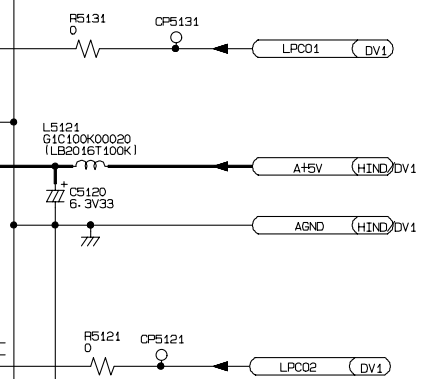
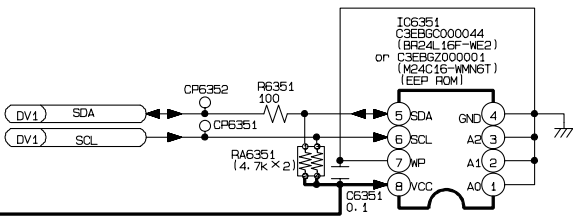
16.4. PRE SECTION (MAIN P.C.B. (1/3)) SCHEMATIC DIAGRAM (DVD-S35GCS/GCU/G



S/GCU/GC/GCA/GD/EE/GN/PL/PLA)

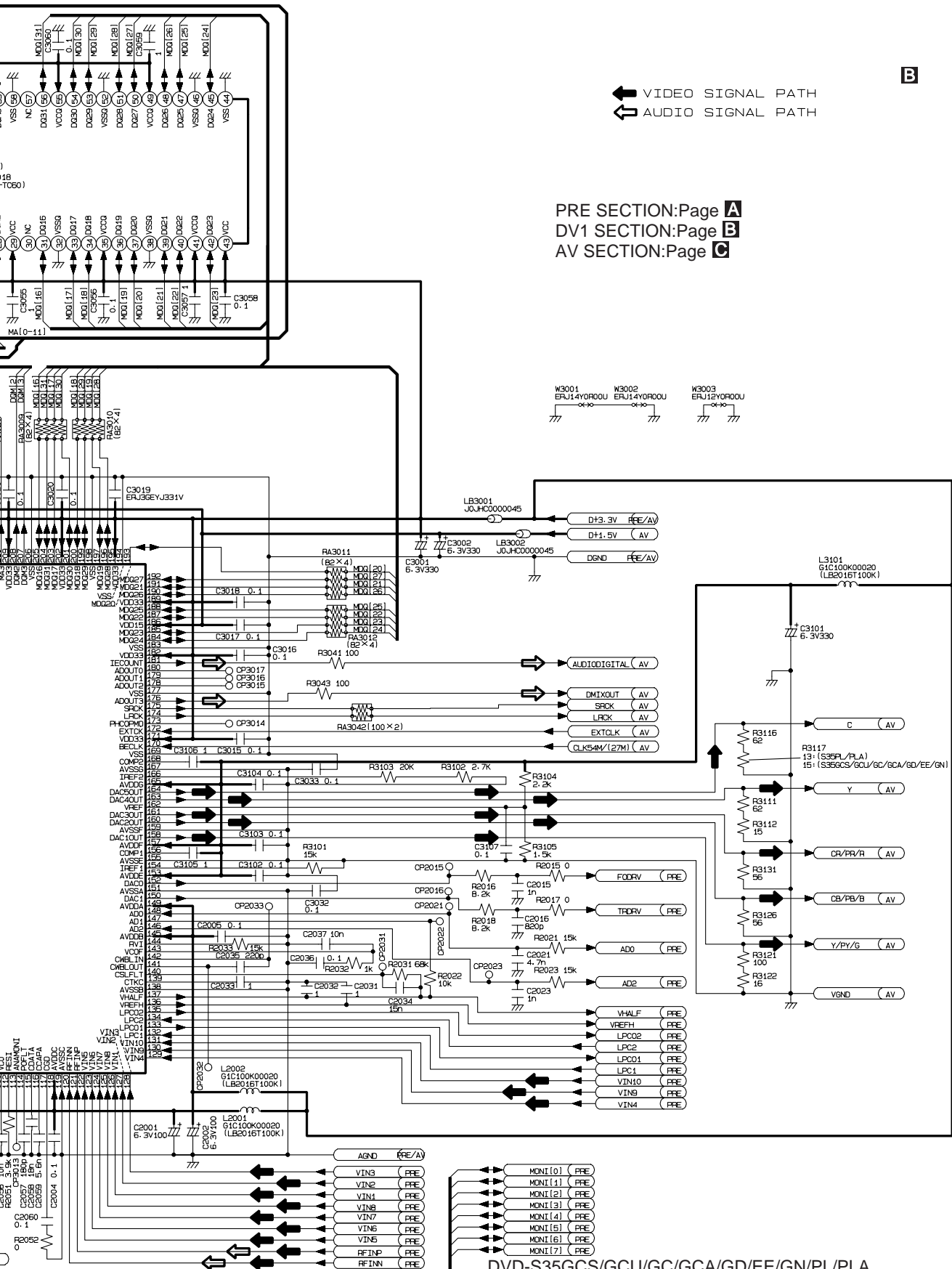


A



PRE SECTION:Page **A**
DV1 SECTION:Page **B**
AV SECTION:Page **C**

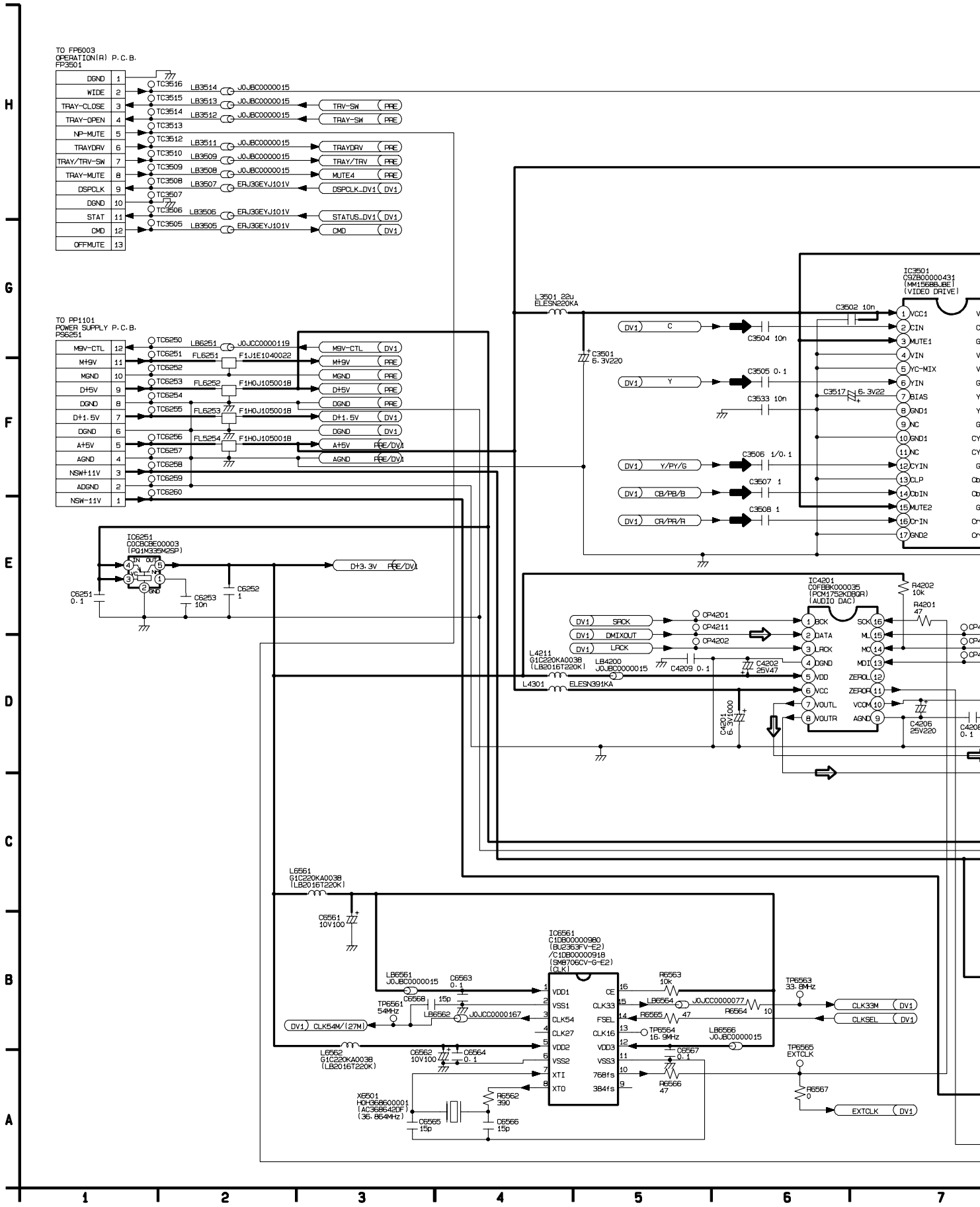
DVD-S35GCS/GCU/GC/GCA/GD/EE/GN/PL/PLA
PRE SECTION(MAIN P.C.B.(1/3)) SCHEMATIC DIAGRAM



PRE SECTION:Page **A**
 DV1 SECTION:Page **B**
 AV SECTION:Page **C**

DVD-S35GCS/GCU/GC/GCA/GD/EE/GN/PL/PLA
 DV1 SECTION(MAIN P.C.B.(2/3)) SCHEMATIC DIAGRAM

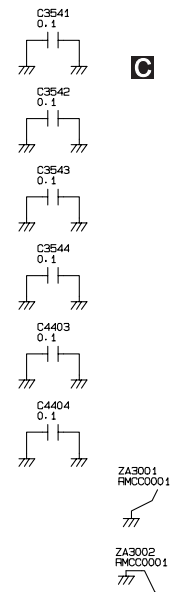
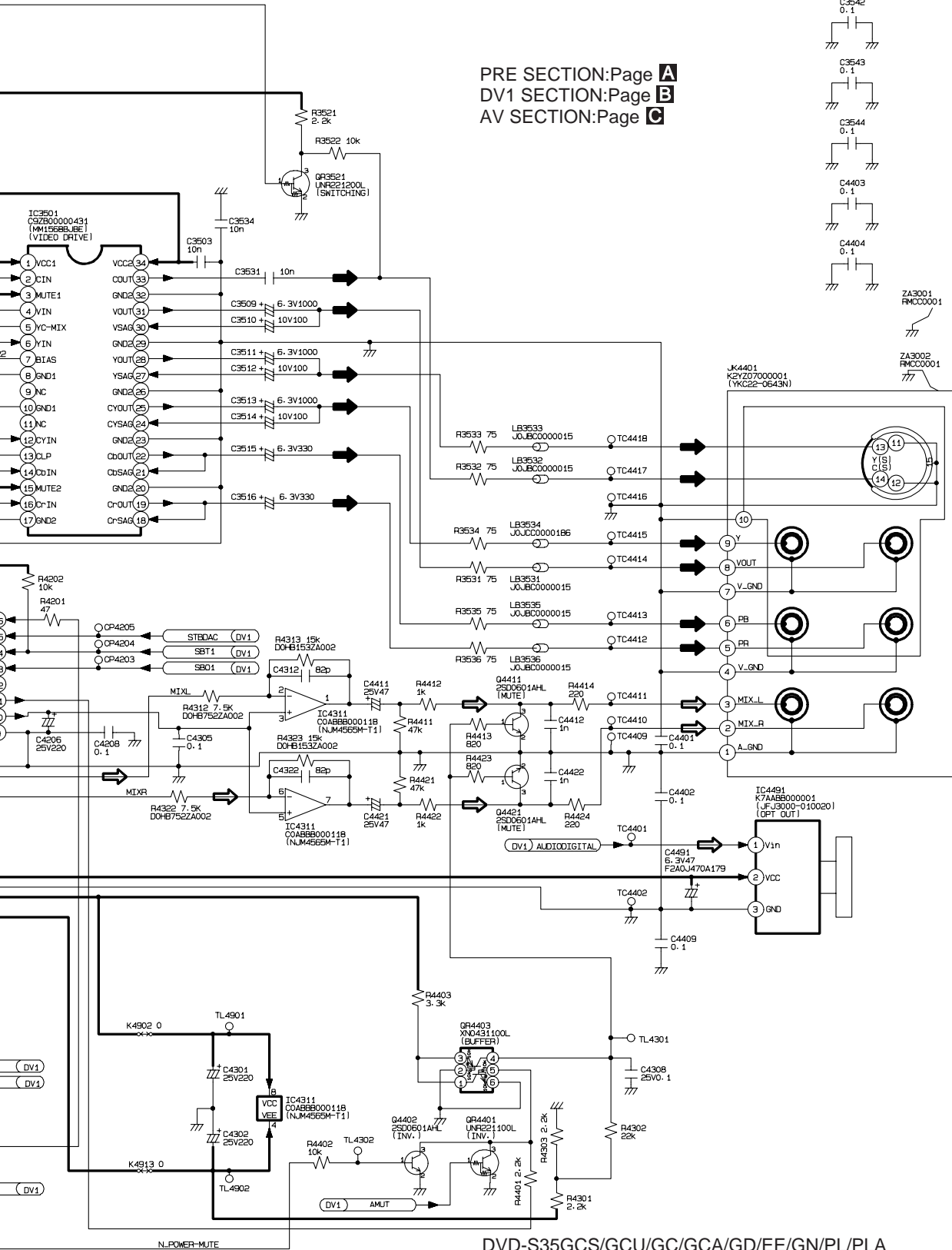
16.6. AUDIO/VIDEO SECTION (MAIN P.C.B. (3/3)) SCHEMATIC DIAGRAM (DVD-S35G)



/D-S35GCS/GCU/GC/GCA/GD/EE/GN/PL/PLA)

VIDEO SIGNAL PATH
 AUDIO SIGNAL PATH

PRE SECTION:Page **A**
 DV1 SECTION:Page **B**
 AV SECTION:Page **C**

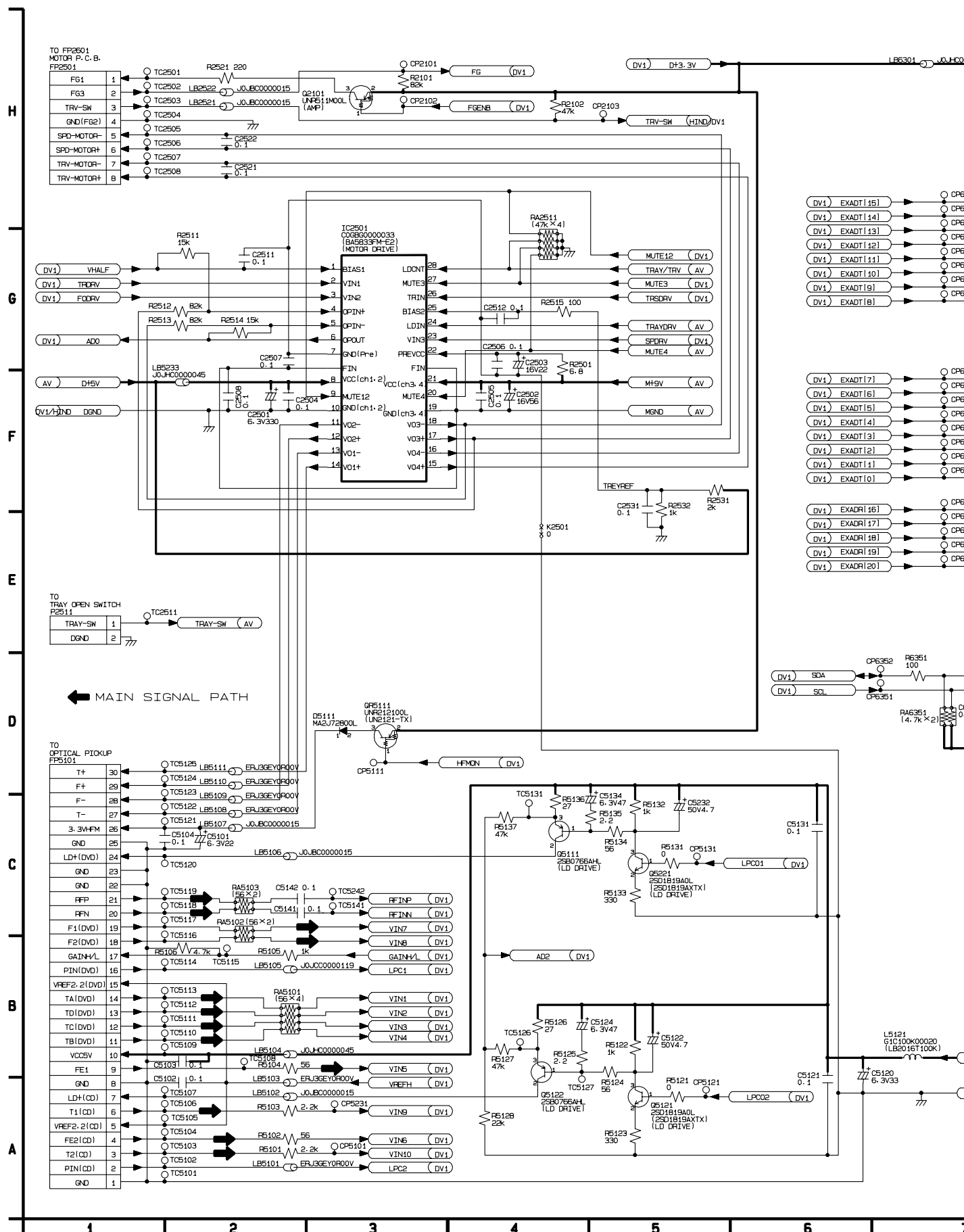


C

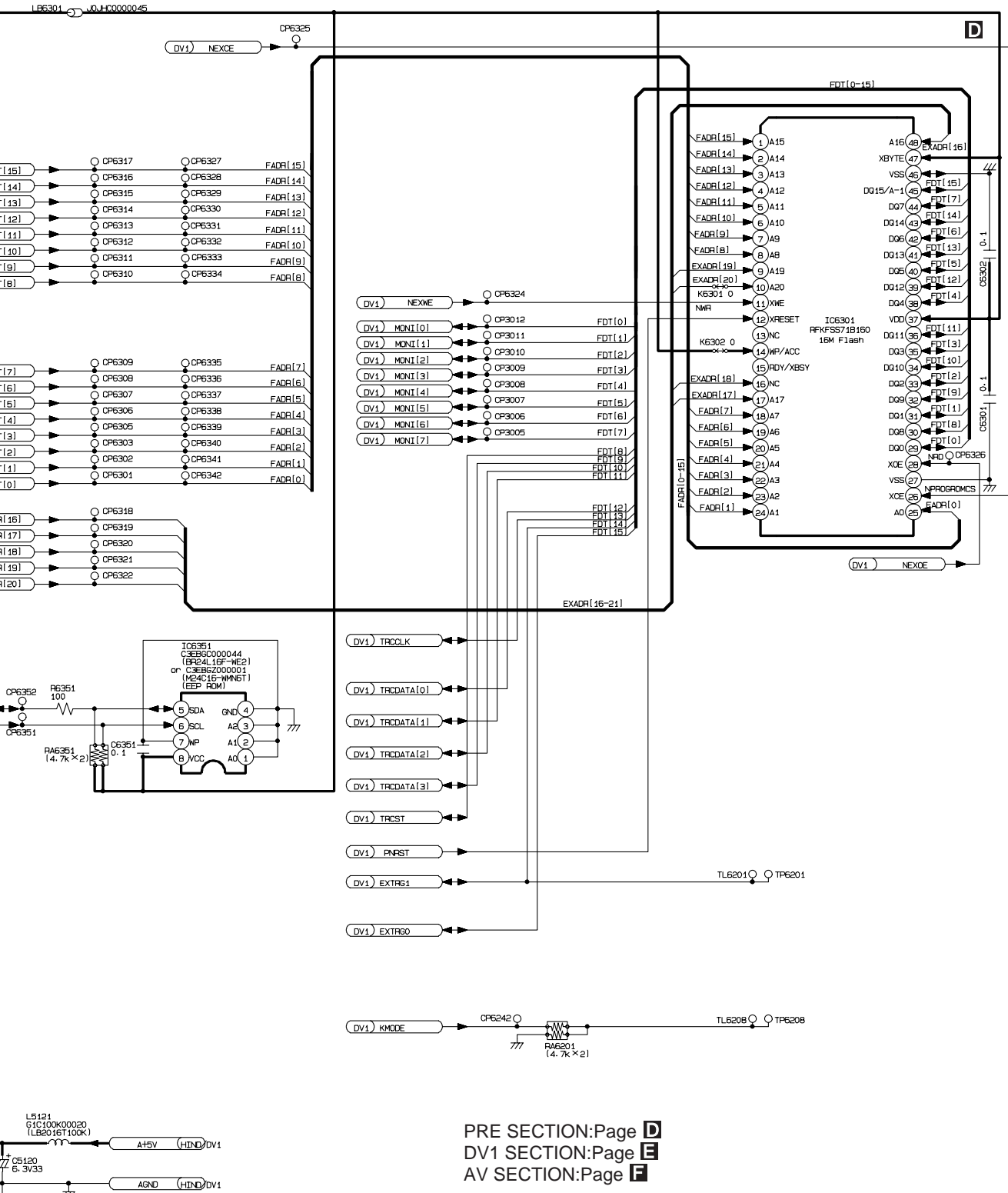
DVD-S35GCS/GCU/GC/GCA/GD/EE/GN/PL/PLA AV SECTION(MAIN P.C.B.(3/3)) SCHEMATIC DIAGRAM

7 | 8 | 9 | 10 | 11 | 12

16.7. PRE SECTION (MAIN P.C.B. (1/3)) SCHEMATIC DIAGRAM (DVD-S35PX)



5PX)



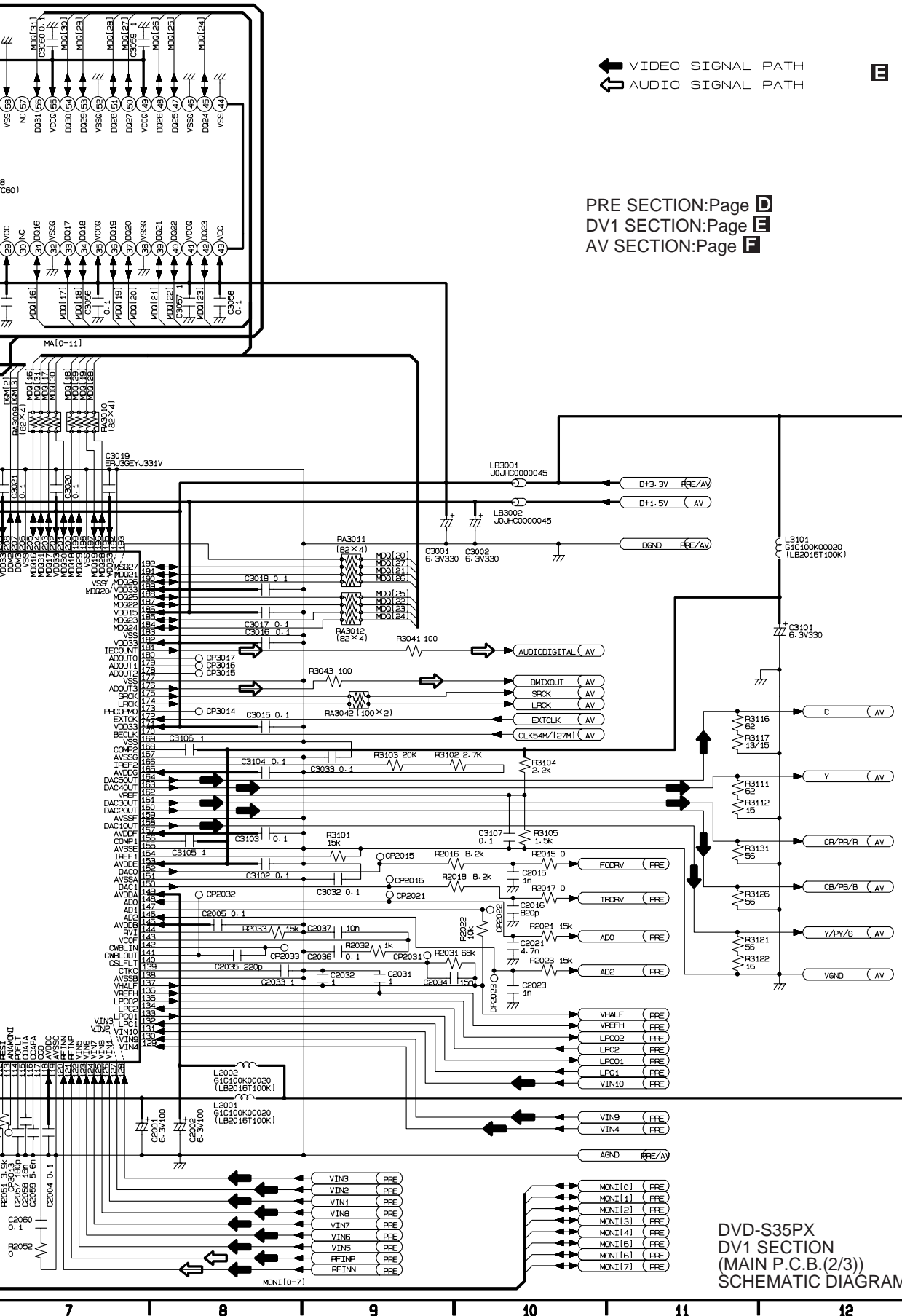
PRE SECTION:Page **D**
 DV1 SECTION:Page **E**
 AV SECTION:Page **F**

DVD-S35PX
 PRE SECTION
 (MAIN P.C.B.(1/3))
 SCHEMATIC DIAGRAM

VIDEO SIGNAL PATH
 AUDIO SIGNAL PATH

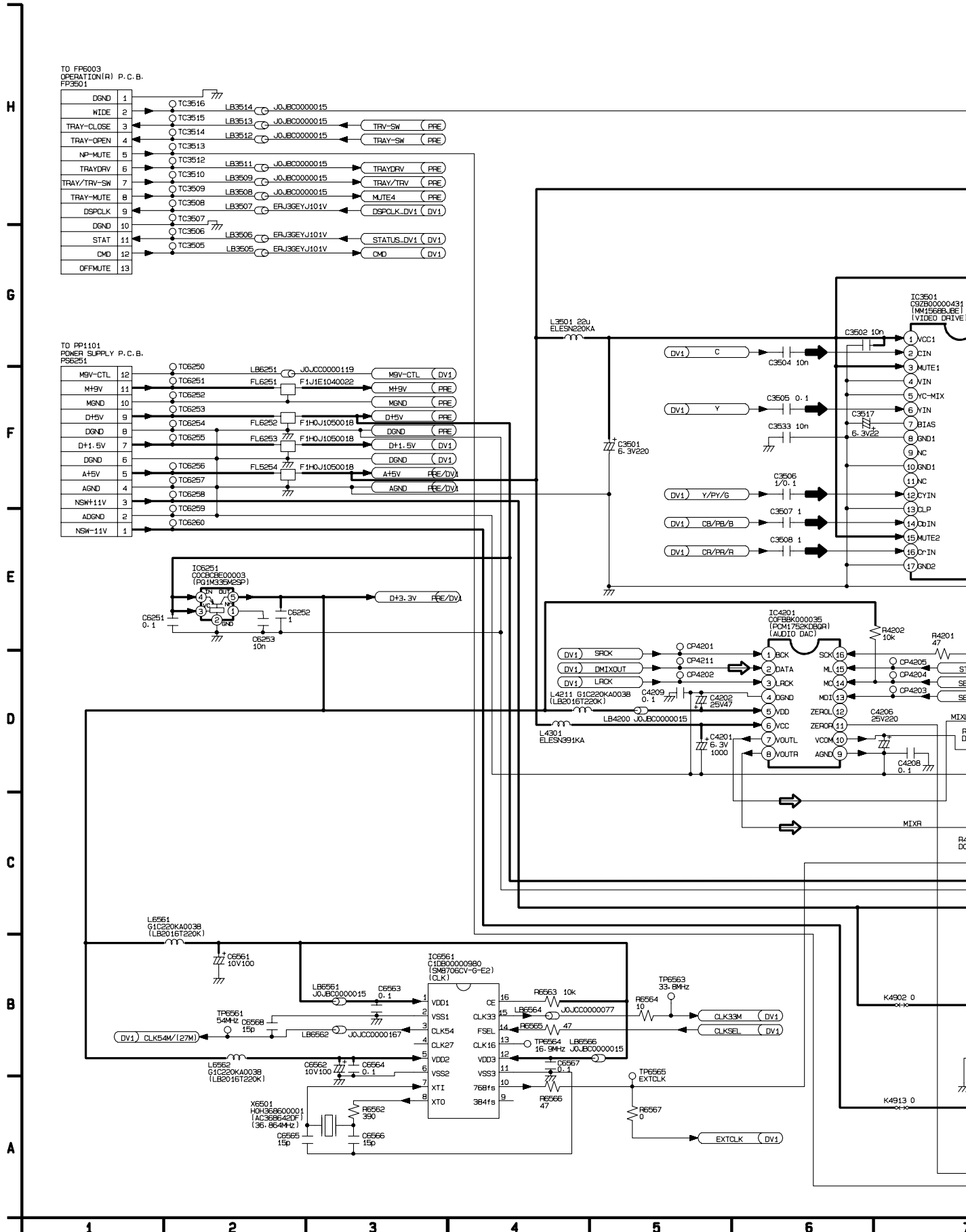
E

PRE SECTION:Page D
 DV1 SECTION:Page E
 AV SECTION:Page F



DVD-S35PX
 DV1 SECTION
 (MAIN P.C.B.(2/3))
 SCHEMATIC DIAGRAM

16.9. AUDIO/VIDEO SECTION (MAIN P.C.B. (3/3)) SCHEMATIC DIAGRAM (DVD-S3)



(DVD-S35PX)

VIDEO SIGNAL PATH
 AUDIO SIGNAL PATH

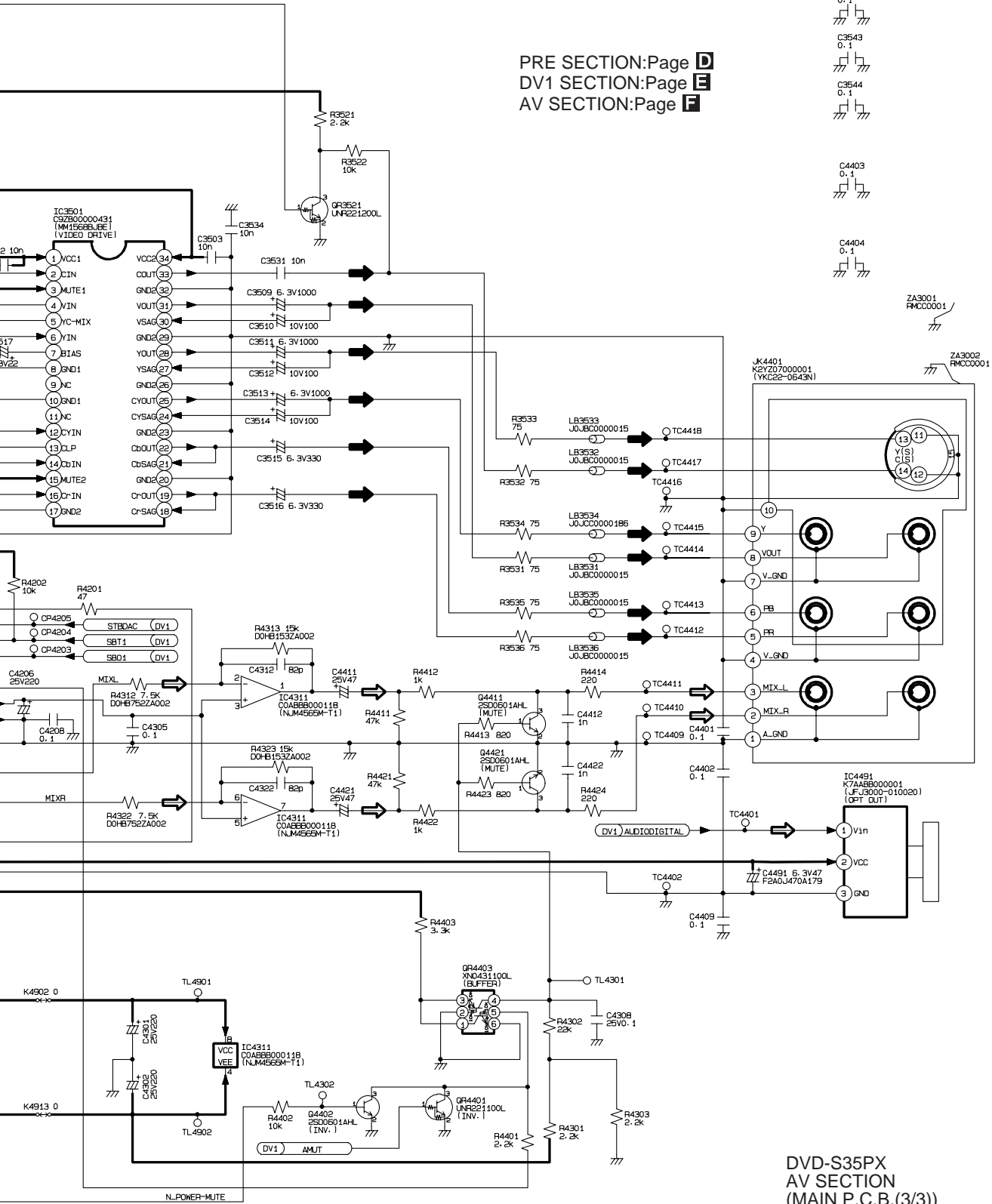
PRE SECTION:Page **D**
 DV1 SECTION:Page **E**
 AV SECTION:Page **F**

C3541 0.1
 C3542 0.1
 C3543 0.1
 C3544 0.1

C4403 0.1

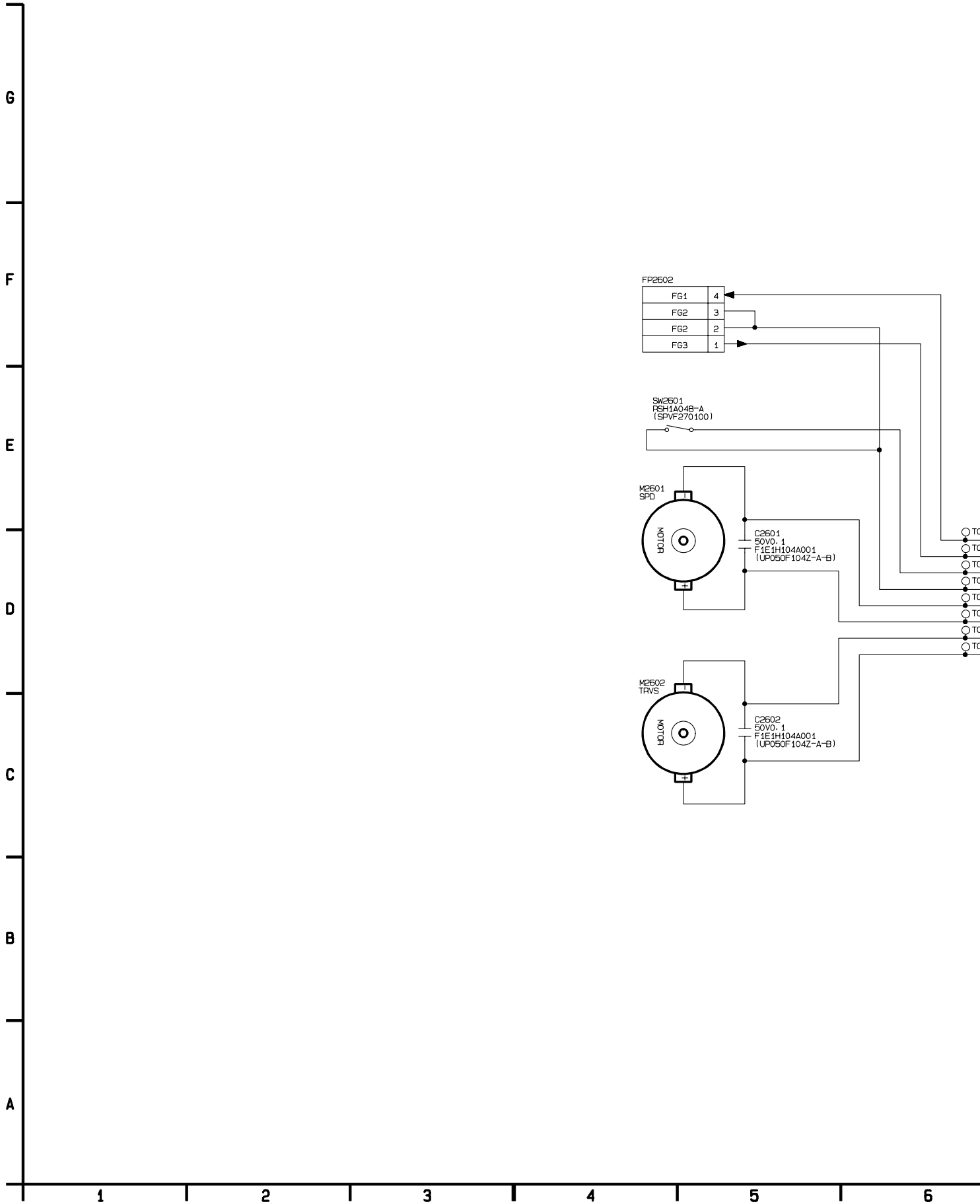
C4404 0.1

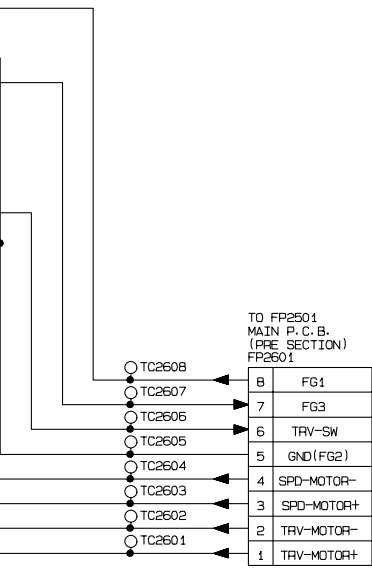
F



DVD-S35PX
 AV SECTION
 (MAIN P.C.B.(3/3))
 SCHEMATIC DIAGRAM

16.10. MOTOR SCHEMATIC DIAGRAM





DVD-S35GCS/GCU/GC/GCA/GD/EE/GN/PL/PLA/PX
MOTOR SCHEMATIC DIAGRAM

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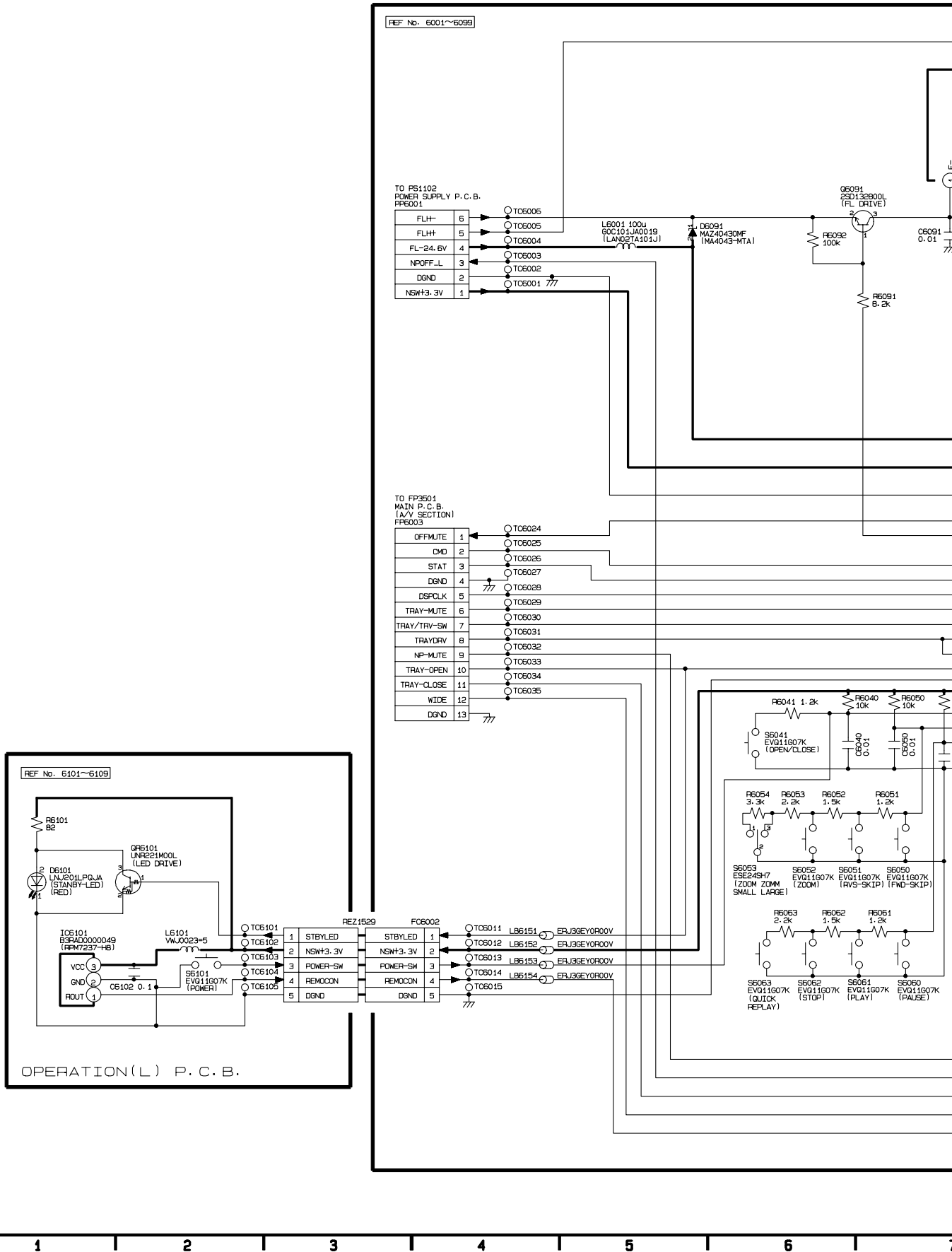
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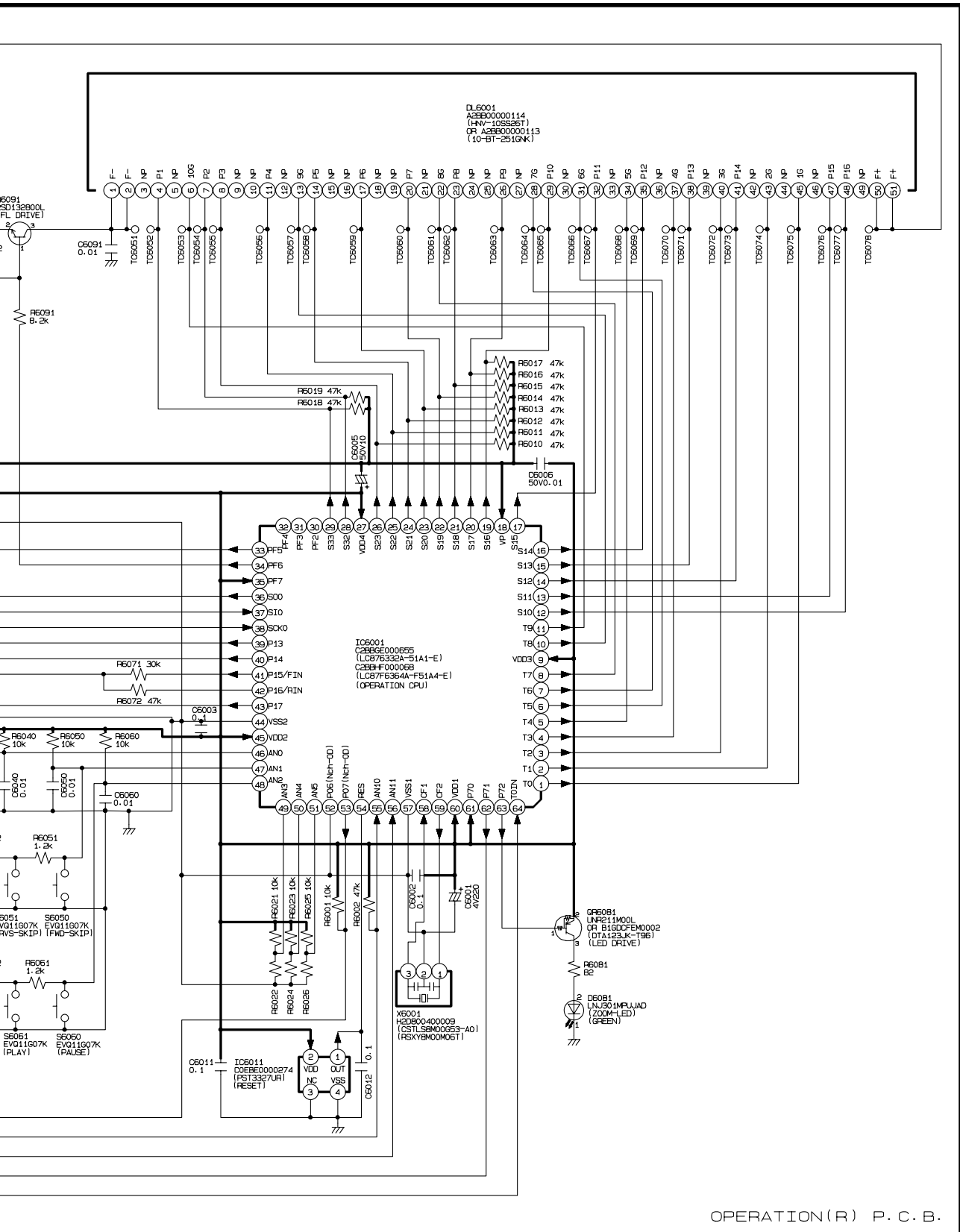
10



16.11. OPERATION SCHEMATIC DIAGRAM

H
G
F
E
D
C
B
A





OPERATION (R) P. C. B.

DVD-S35GCS/GCU/GC/GCA/GD/EE/GN/PL/PLA/PX
OPERATION SCHEMATIC DIAGRAM

7 8 9 10 11 12