

Service Manual

Blu-ray Disc Player

Model No. **DMP-BD30PP**
DMP-BD30PL



Vol. 1

Colour

(K).....Black Type

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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.

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1 Safety Precaution

1.1. General guidelines

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

1.1.1. Leakage current cold check

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

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

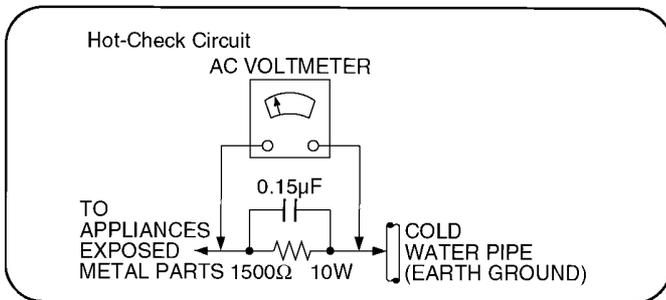


Figure 1

1.1.2. Leakage current hot check (See Figure 1.)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a $1.5k\Omega$, 10 watts resistor, in parallel with a $0.15\mu F$ 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 milliampere. 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.

1.2. Caution for fuse replacement

(For English)

CAUTION:

Replace with the same type fuse:
(Manufacturer: Hollyland, Type: 50T, 1.6A, 250V)

(For Canadian French)

ATTENTION:

Utiliser un fusible de rechange de même type:
(Fabricant: Hollyland, Type: 50T, 1.6A, 250V)

2 Warning

2.1. Prevention of Electrostatic Discharge (ESD) to Electrostatic Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatic Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistor-sand semiconductor **chip** components. The following techniques should be used to help reduce the incidence of component damage caused by electrostatic 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 sufficient to damage an ES device).

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by \triangle in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

2.2. Precaution of Laser Diode

CAUTION:

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

Wave length: 785 nm (CDs)/662 nm (DVDs)/405 nm (BDs)

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.



Product complies with DHHS Rules 21 CFR Subchapter J in effect at date of manufacture.
Matsushita Electric Industrial Co., Ltd.
Kadoma, Osaka, Japan

ACHTUNG:

Dieses Produkt enthält eine Laserdiode.

Im eingeschalteten Zustand wird unsichtbare Laserstrahlung von der Lasereinheit abgestrahlt.

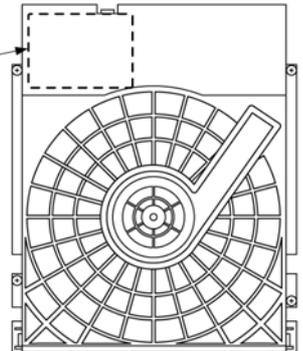
Wellenlänge: 785 nm (CDs)/662 nm (DVDs)/405 nm (BDs)

Maximale Strahlungsleistung der Lasereinheit: 100 μ W/VDE

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

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

| | |
|--|--|
| DANGER - VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM. FDA 21 CFR/Class IIIb | |
| CAUTION - CLASS 3B VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO THE BEAM. IEC60825-1 +A2/Class 3B | |
| ATTENTION - RAYONNEMENT LASER VISIBLE ET INVISIBLE. CLASSE 3B. EN CAS D'OUVERTURE, EVITER UNE EXPOSITION AU FAISCEAU. | |
| FORSIGTIG - SYNLIG OG USYNLIG LASERSTRÅLING KLASSE 3B. NÅR LAGET ER ÅBENT, UNDGÅ AT BLIVE UDSAT FOR STRÅLEN. | |
| VARO - AVATTAESSA OLET ALTITINA LUOKAN 3B NÄKYVÄÄ JA NÄKYMÄTÖNTÄ LASERSÄTELYÄ. VÄRÖ ALTISTUMISTA SÄTEELLE. | |
| WARNING - KLASS 3B SYNLIG OCH OSYNLIG LASERSTRÅLING NÄR DENNA DEL ÄR ÖPPNAD. UNDVIK EXPOSERING FÖR STRÅLEN. | |
| VORSICHT - SICHTBARE UND UNSICHTBARE LASERSTRÄHLUNG KLASSE 3B. WENN ABDECKUNG GEÖFFNET, NICHT DEM STRAHL AUSSETZEN. | |
| 注意 - 打开时有可见及不可见激光辐射。避免光束照射。 | |
| 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。VOL1J70 | |



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.

2.3. Service caution based on legal restrictions

2.3.1. General description about Lead Free Solder (PbF)

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

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

Definition of PCB Lead Free Solder being used

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

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

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

Recommended Lead Free Solder (Service Parts Route.)

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

Note

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

3 Service Navigation

3.1. Service Information

This service manual contains technical information which will allow service personnel's to understand and service this model.

Please place orders using the parts list and not the drawing reference numbers.

If the circuit is changed or modified, this information will be followed by supplement service manual to be filed with original service manual.

1) This service manual does not contain the following information, because of the impossibility of servicing at component level.

- * Schematic Diagram, Block Diagram and P.C.B. layout of Digital P.C.B..
- * Parts List for individual parts of Digital P.C.B..
- * Exploded View and Parts List for individual parts of BD/DVD drive.

2) The following category are recycle module part. Please send them to Central Repair Center.

- * Digital P.C.B. (BD30PP/PL : RFKB76160A)

3) For BD/DVD drive, it depends on area to defferent recycle system.
Please refer to service policy in detail.

- * BD/DVD drive (VXY2001)

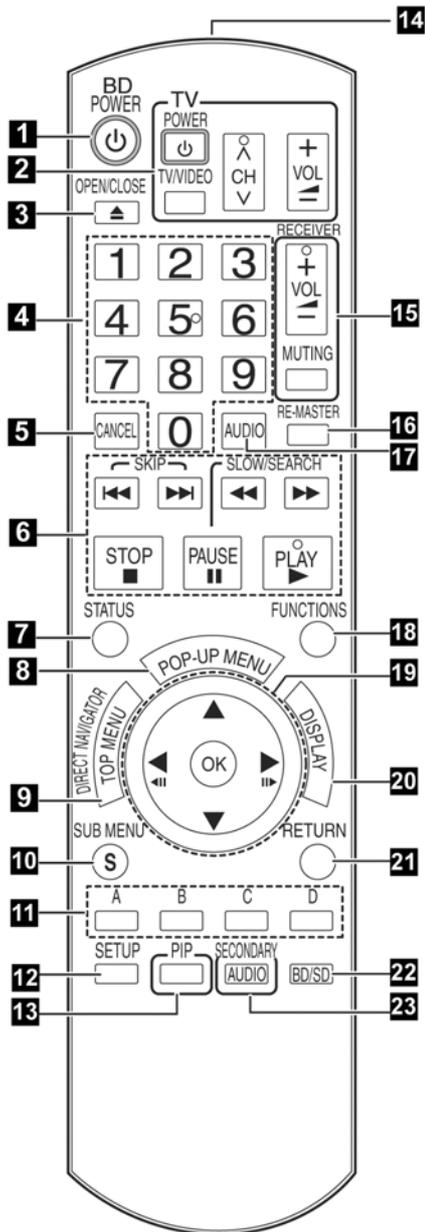
4 Specifications

| | |
|--|---|
| Power supply | AC120 V, 60 Hz |
| Power consumption | Approx. 25 W |
| Power consumption in standby mode | Less than 1 W |
| Optical pick-up | System with 2 lenses, (405 nm wavelength for BDs, 662 nm wavelength for DVDs, 785 nm wavelength for CDs) |
| Media | |
| Playable discs | <p>BD-Video BD-ROM Version 2 (Final Standard Profile)</p> <p>BD-RE Version 3 (Single Layer/Dual Layer, JPEG)</p> <p>BD-R Version 2 (Single Layer/Dual Layer)</p> <p>DVD - RAM DVD Video Recording format, AVCHD format, JPEG</p> <p>DVD-R/ DVD-R DL/ DVD-RW Video(*1), AVCHD format(*1)</p> <p>+R/+R DL/ +RW Video(*1), AVCHD format(*1)</p> <p>DVD-VIDEO DVD-Video format</p> <p>CD-Audio CD-DA</p> <p>CD-R/CD-RW CD-DA, JPEG(*2), MP3(*2)</p> <p>(*1) Finalizing is necessary.</p> <p>(*2) ISO9660 level 1 or 2 (except for extended formats), Joliet.</p> <p>This unit is compatible with multi-session.</p> <p>This unit is not compatible with packet writing.</p> |
| SD Card | <p>SD Memory Card (*3) formatted FAT12, FAT16, FAT32 (*4)</p> <p>JPEG, AVCHD format</p> <p>(*3) includes SDHC card</p> <p>includes miniSD™ cards (need a miniSD™ adaptor)</p> <p>includes microSD™ cards (need a microSD™ adaptor)</p> <p>(*4) not support long file name.</p> |
| Contents | |
| JPEG SD card CD-R/RW DVD-RAM BD-RE | <p>Pixels: 34x34 ~ 5120x3840</p> <p>Sub sampling: 4:2:2, 4:2:0</p> <p>motion JPEG not supported</p> <p>SD card: JPEG conforming DCF (Design rule for Camera File System)</p> <p>Thawing Time: Approx. 2sec (7M pixels)</p> <p>Maximum numbers of folders and files;</p> <p>Maximum folders: 99(CD) / 300(SD card) / 300(DVD-RAM) / 300(BD-RE)</p> <p>Maximum files: 999(CD) / 3000(SD card) / 3000(DVD-RAM) / 9999(BD-RE)</p> |
| MP3 (CD-R/RW) | <p>Compression rate: 32kbps ~ 320kbps</p> <p>Sampling rate: 16kHz, 22.05kHz, 24kHz, 32kHz, 44.1kHz, 48kHz</p> |
| AVCHD (H.264) (SD card, DVD) | AVCHD format V1.0 |
| Playable discs | <p>BD-ROM(SL/DL): compliant Ver.1.3</p> <p>BD-RE(SL/DL): BD-MV</p> <p>BD-R(SL/DL): BD-MV</p> <p>DVD-ROM(SL/DL): DVD-Video</p> <p>DVD-RAM: DVD-VR</p> <p>DVD-R: DVD-Video</p> <p>DVD-VR</p> <p>DVD-R(DL): DVD-Video</p> <p>DVD-VR</p> <p>DVD-RW: DVD-Video</p> <p>DVD-VR</p> <p>+R: Video</p> <p>+R(DL): Video</p> <p>+RW: Video</p> <p>CD-ROM, CD-R/RW: CD-DA</p> |

| | |
|---|---|
| HDMI | 480p(525p)/1080i(1125i)/720p(750p)/1080p(1125p) HDMI™ (Deep color™, High Bit rate Audio) HDAVI (EZ-sync) Ver.2 |
| Region number | Region No.1(PP), No.4(PL): DVD-Video Region No.A: BD-Video |
| Signal system | NTSC |
| Video output | Output level: 1.0 Vp-p (75 Ω) Output connector: Pin jack (1 system) |
| S - video output | Y output level: 1.0 Vp-p (75 Ω) C output level: 0.286 Vp-p (75 Ω) at Burst Output connector: S terminal (1 system) |
| Component video output (1080i/720p/480p/480i) | Y output level: 1.0 Vp-p (75 Ω) P _B output level: 0.7 Vp-p (75 Ω) P _R output level: 0.7 Vp-p (75 Ω) Output connector: Pin jack (Y: green, P _B : blue, P _R : red) (1 system) |
| Audio output | Output level: 2 Vrms (1 kHz 0 dB) Output connector: Pin jack Number of connectors(PP): 2 channel; 2 system (PL): 2 channel; 1 system 5.1 channel discrete output (5.1 channel); 1 system |
| Audio performance | <p>Frequency response</p> <ul style="list-style-type: none"> DVD (linear audio) 4 Hz - 22 kHz (48kHz sampling) 4 Hz - 44 kHz (96kHz sampling) CD-Audio 4 Hz - 20 kHz <p>S/N ratio 115dB</p> <p>Dynamic range 100dB</p> <p>Total harmonic distortion 0.003%</p> |
| Digital audio output | Optical digital output Optical terminal Coaxial digital output Pin jack |
| HDMI AV output | Outputformat 1080p/1080i/720p/480p Output Connector TypeA(19pin) |
| Others | |
| Dimensions | <p>Excluding the projecting parts: 430 (W) × 59 (H) × 313 (D) mm [Approx. 16 15/16" (W) × 2 5/16" (H) × 12 5/16" (D)]</p> <p>Including the projecting parts: 430 (W) × 85 (H) × 320 (D) mm [Approx. 16 15/16" (W) × 3 3/8" (H) × 12 5/8" (D)]</p> |
| Mass | Approx. 3.3 kg (7.3 lbs) |
| Operating Temperature range | 5°C - 35°C (41°F - 95°F) |
| Operating Humidity range | 10 %-80 % RH (no condensation) |
| LASER Specification | |
| Wave Length | 405 nm(BDs), 662 nm(DVDs), 785 nm(CDs) |
| Laser Power | No hazardous radiation is emitted with the safety protection. |
| Solder | These models use lead free solder (PbF) |

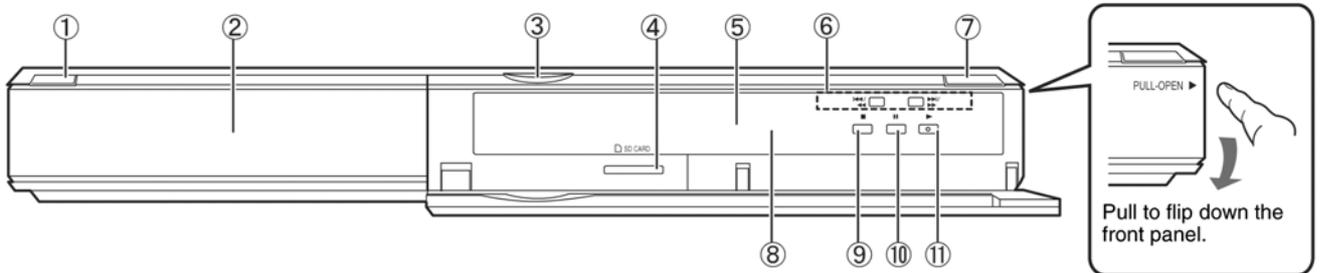
Notes : Mass and dimensions are approximate.
Specifications are subject to change without notice.

5 Location of Controls and Components



- 1** Turn the unit on and off
- 2 TV operation buttons**
You can operate the TV through the unit's remote control.
[TV POWER] : Turn the television on and off
[TV/VIDEO] : Switch the input channel
[^ v CH] : Channel select
[+ - VOL] : Adjust the volume
- 3** Open or close the disc tray
- 4 Numbered buttons**
Select title numbers, etc./Enter numbers
- 5** Cancel
- 6 Basic playback control buttons**
- 7** Show status messages
- 8** Show Pop-up menu
- 9** Show Top menu/Direct Navigator
- 10** Show sub menu
- 11** These buttons are used when operating a BD-Video disc that includes Java™ applications (BD-J). For more information about operating this kind of disc, please read the instructions that came with the disc.
The [A] and [B] buttons are also used with the "Title View", "Picture View" and "Album View" screens .
- 12** Show Setup menu
- 13** Switch on/off Secondary Video (Picture-in-picture)
- 14** Transmit the remote control signal
- 15 Receiver operation buttons**
You can operate an amplifier/receiver through the unit's remote control.
[+ - VOL] : Adjust the volume
[MUTING] : Mute the sound
- 16** Reproduce more natural audio
- 17** Select audio
- 18** Show FUNCTIONS menu
- 19** Selection/OK, Frame-by-frame
- 20** Show on-screen menu
- 21** Return to previous screen
- 22** Select disc drive or SD card drive
- 23** Switch on/off Secondary Audio

CAUTION
Do not place objects in front of the unit. The disc tray may collide with objects when it is opened, and this may cause injury.



- 1 POWER button (POWER /I)**
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.
- 2** Disc tray
- 3** SD Card LED
It is possible to set the LED to turn on/off.
- 4** SD card slot
- 5** Display

Disc indicator **SD** SD card indicator

The indicator blinks when reading data from a disc or card.

- 6** Search/Slow-motion/Skip
Search: Press and hold (During play)
Slow-motion: Press and hold (During pause)
Skip: Press
- 7** Open or close the disc tray
- 8** Remote control signal sensor
- 9** Stop
- 10** Pause
- 11** Start play

6 Operation Instructions

6.1. Taking out the Disc from BD/DVD Drive Unit when the Disc cannot be ejected by OPEN/CLOSE button

6.1.1. Forcible Disc Eject

6.1.1.1. When the power can be turned off.

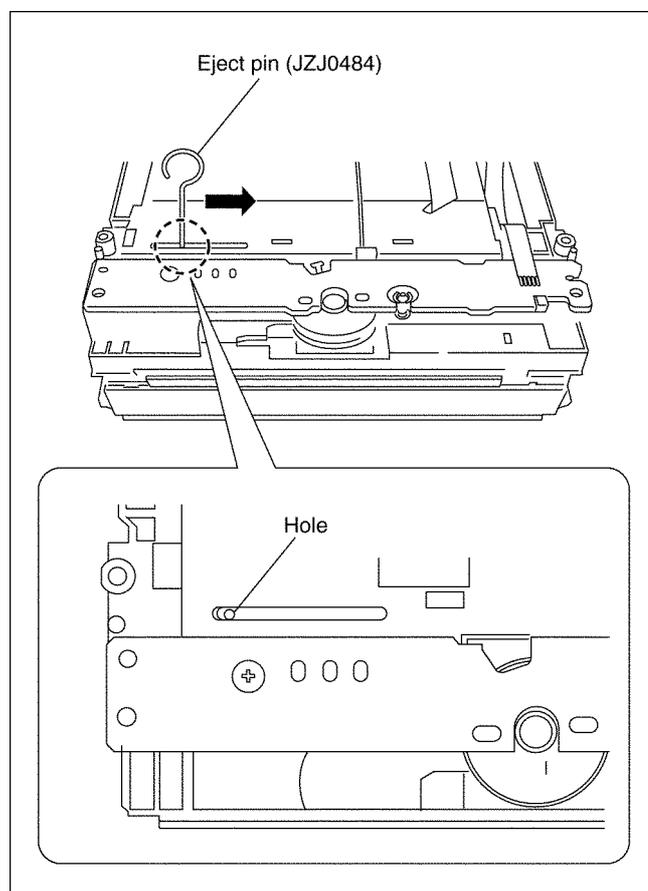
1. Turn off the power and press [SKIP FWD] and [PAUSE] keys on the front panel simultaneously for 5 seconds.

6.1.1.2. When the power can not be turned off.

1. Press [POWER] key on the front panel for over 10 seconds to turn off the power forcibly, and press [SKIP FWD] and [PAUSE] keys on the front panel simultaneously for 5 seconds.

6.1.2. When the Forcible Disc Eject can not be done.

1. Turn off the power and pull out AC cord.
2. Remove the Top Cover and BD/DVD Drive.
3. Insert Eject Pin (JZJ0484) into the hole on the bottom of BD/DVD Drive and slide the Eject Pin in the direction of the arrow to eject tray slightly.



4. Pull out tray by hand.

7 Service Mode

7.1. Self-Diagnosis and Special Mode Setting

7.1.1. Self-Diagnosis Functions

Self-Diagnosis Function provides information for errors to service personnel by **Self-Diagnosis Display** when any error has occurred.

U**, **H**** and **F**** are stored in memory and held.

You can check latest error code by transmitting [0] [1] of Remote Controller in Service Mode.

Automatic Display on FL will be cancelled when the power is turned off or AC input is turned off during self-diagnosis display is ON.

| Error Code | Diagnosis contents | Description | Monitor Display | Automatic FL display |
|------------|---|--|-----------------|--|
| U30 | Remote control code error | Display appears when main unit and remote controller codes are not matched. | No display | <div style="border: 1px solid black; padding: 5px; text-align: center;">SET *</div> <p>* is remote controller code of the main unit. Display for 5 seconds.</p> |
| U59 | Abnormal inner temperature detected | Display appears when the drive temperature exceeds 70°C. The power is turned off forcibly. For 30 minutes after this, all key entries are disabled. (Fan motor operates at the highest speed for the first 5 minutes. For the remaining 25 minutes, fan motor is also stopped.) The event is saved in memory as well. | No display | <div style="border: 1px solid black; padding: 5px; text-align: center;">U59</div> <p>U59 is displayed for 30 minutes.</p> |
| U71 | HDMI incompatible error (HDCP incompatible) | Display this error when the equipment (compatible with DVI such as TV, amplifier etc.) connected to the unit by HDMI is incompatible with HDCP. *HDCP=High-bandwidth Digital Content Protection | No display | <div style="border: 1px solid black; padding: 5px; text-align: center;">U71</div> |
| U72 | HDMI connection error (communication error) | This error is displayed when there are any communication problems with the unit and the equipments (TV, amplifier etc.) connected to the unit by HDMI. (or when there is a problem with the HDMI cable) | No display | <div style="border: 1px solid black; padding: 5px; text-align: center;">U72</div> <p>U72 display disappears when error has been solved by Power OFF/ON of connecting equipment or by inserting/removing of HDMI cable.</p> |
| U73 | HDMI connection error (authentication error) | when authentication error occurs while the equipments (TV, amplifier etc.) are connected by HDMI. (or when there is a problem with the HDMI cable) | No display | <div style="border: 1px solid black; padding: 5px; text-align: center;">U73</div> <p>U73 display disappears when error has been solved by Power OFF/ON of connecting equipment or by inserting/removing of HDMI cable.</p> |
| F99 | Hang-up | Displayed when communication error has occurred between Main microprocessor (MV2-PLUS (IC60009)) and Timer microprocessor (IC7501). | No display | <div style="border: 1px solid black; padding: 5px; text-align: center;">F99</div> <p>Displayed is left until the [POWER] key is pressed.</p> |
| H19 | Inoperative fan motor | When inoperative fan motor is detected after powered on, the power is turned off automatically. The event is saved in memory. | No display | No display |
| F00 | No error information | Initial setting for error code in memory (Error code Initialization is possible with error code initialization and main unit initialization.) | No display | No display |
| F34 | Initialization error when main microprocessor is started up for program recording | When initialization error is detected after starting up main microprocessor MV2-PLUS (IC60009), the power is turned off automatically. The event is saved in memory. | No display | No display |
| F58 | Drive hardware error | When drive unit error is detected, the event is saved in memory. | No display | No display |

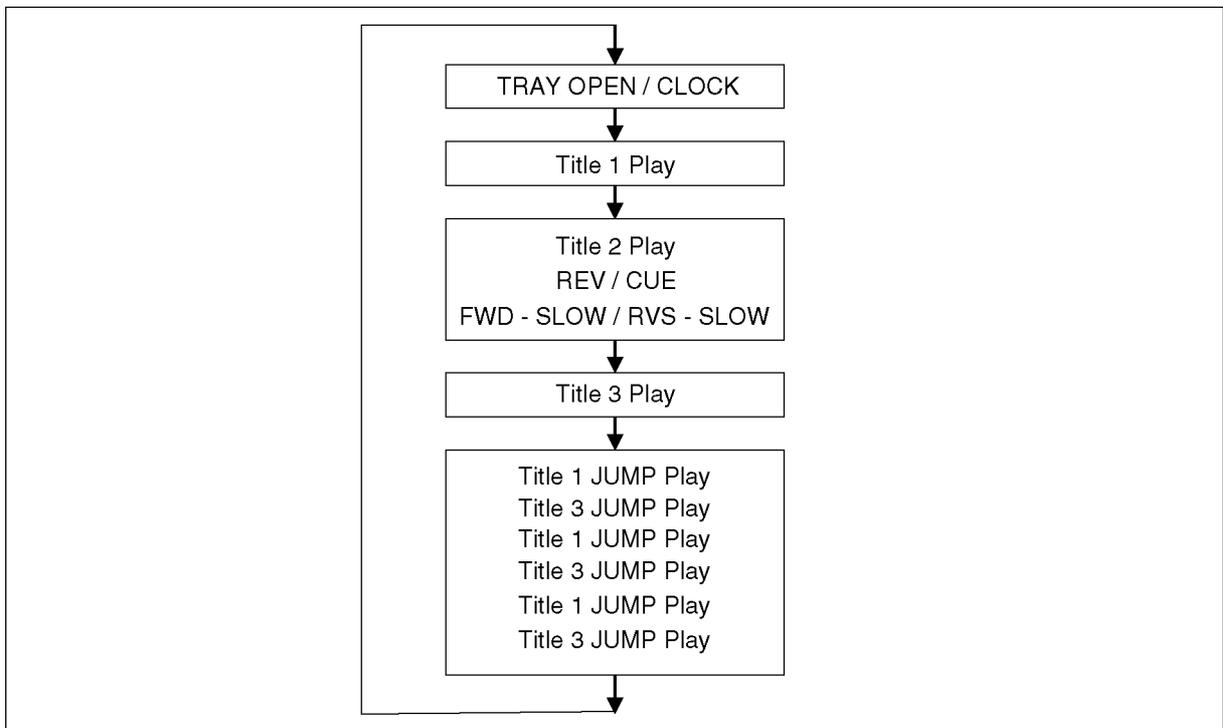
| Error Code | Diagnosis contents | Description | Monitor Display | Automatic FL display |
|-------------|---|---|--|---|
| UNSUP-PORT | Unsupported disc error | *An unsupported format disc was played, although the drive starts normally. *The data format is not supported, although the media type is supported. *Exceptionally in case of the disc is dirty. | This disc is incompatible. | <div style="border: 1px solid black; padding: 5px; text-align: center;">UNSUP</div> <p style="text-align: center;">↓</p> <div style="border: 1px solid black; padding: 5px; text-align: center;">PORT</div> <p>Display for 5 seconds.</p> |
| NO READ | Disc read error | *A disc is flawed or dirty. *A poor quality failed to start. *The track information could not be read. | Cannot read. Please check the disc. | <div style="border: 1px solid black; padding: 5px; text-align: center;">NOREAD</div> |
| HARD ERR | Drive error | The drive detected a hard error. | DVD drive error. | <p>Display for 5 seconds.</p> <div style="border: 1px solid black; padding: 5px; text-align: center;">HARD</div> <p style="text-align: center;">↓</p> <div style="border: 1px solid black; padding: 5px; text-align: center;">ERR</div> |
| IR ERR | IR communication error | [IR ERR] is displayed when communication between Timer microprocessor and IR microprocessor fails. | No display | <div style="border: 1px solid black; padding: 5px; text-align: center;">IR ERR</div> |
| SELF CHECK | Restoration operation | Since the power cord fell out during a power failure or operation, it is under restoration operation. *It will OK, if a display disappears automatically. If a display does not disappear, there is the possibility that defective Digital P.C.B. / DVD drive. | No display | <div style="border: 1px solid black; padding: 5px; text-align: center;">SELF</div> <p style="text-align: center;">↓</p> <div style="border: 1px solid black; padding: 5px; text-align: center;">CHECK</div> |
| PLEASE WAIT | Unit is in termination process | Unit is in termination process now. BYE is displayed and power will be turned off. | No display | <div style="border: 1px solid black; padding: 5px; text-align: center;">PLEASE</div> <p style="text-align: center;">↓</p> <div style="border: 1px solid black; padding: 5px; text-align: center;">WAIT</div> |
| UNFORMAT | Unformatted disc error | You have inserted an unformatted DVD-RAM or DVD-RW that is unformatted or recorded on other equipment. | The disc is not formatted properly. | <div style="border: 1px solid black; padding: 5px; text-align: center;">UNFOR</div> <p style="text-align: center;">↓</p> <div style="border: 1px solid black; padding: 5px; text-align: center;">MAT</div> |
| No PLAY | When there is a viewing restriction on a BD-Video or DVD-Video. | Rating password is set. | No display | <div style="border: 1px solid black; padding: 5px; text-align: center;">No PLAY</div> |

7.1.2. Special Modes Setting

| Item | | FL display | Key operation |
|-------------------------|---|---|--|
| Mode name | Description | | |
| TEST Mode | *All the main unit's parameters are initialized. | <div style="border: 1px solid black; padding: 5px; text-align: center;">TEST</div> | Press [STOP], [SKIP FWD] and [OPEN/CLOSE] keys simultaneously for five seconds when power is off. |
| Rating password | The audiovisual level setting password is initialized to Level 8 . | <div style="border: 1px solid black; padding: 5px; text-align: center;">INIT</div> | Open the tray, and press [SKIP REV] and [PLAY] simultaneously for 5 seconds. |
| Service Mode | Setting every kind of modes for servicing. *Details are described in 7.1.3. Service Mode at a glance . | <div style="border: 1px solid black; padding: 5px; text-align: center;">SERV</div> | When the power is off, press [SKIP FWD], [OPEN/CLOSE] and [PAUSE] keys simultaneously for 5 seconds. |
| BD-ROM history cleaning | < Persistent Storage > of BD-ROM standard is cleaned. Screen display: [The player's history data has been cleared] is displayed for five seconds. | <div style="border: 1px solid black; padding: 5px; text-align: center;">*****</div> <p>Same display as before execution.</p> | When disc is not in tray, press [STOP] and [POWER] keys simultaneously for 5 seconds. |
| Forced disc eject | Removing a disc that cannot be ejected. The tray will open and unit will shift to P-off mode. While Demonstration Lock is being set, this Forced disc eject function is not accepted. | <p>The display before execution leaves.</p> <div style="border: 1px solid black; padding: 5px; text-align: center;">*****</div> | When the power is off, press [SKIP FWD] and [PAUSE] keys simultaneously for 5 seconds. |

| Item | | FL display | Key operation |
|------------------|--|----------------------------------|---|
| Mode name | Description | | Front Key |
| Forced power-off | When the power button is not effective while power is ON, turn off the power forcibly. | Display in P-off mode. | Press [POWER] key over than 10 seconds. |
| Aging | Perform sequence of modes as * Aging Description shown below continually. | Display following the then mode. | <p>When the power is ON, press [STOP], [POWER] and [OPEN/CLOSE] simultaneously for over 5 seconds and less than 10 seconds.</p> <p>NOTE1: If Unit has not turned into Aging mode by operations shown above, execute TEST MODE once and re-execute operation shown above. (*All the main unit's parameters include tuner are initialized by TEST mode.)</p> <p>NOTE2: If the unit has hung-up because of pressing keys for over 10 seconds, once turn off the power, and re-execute this command. *When releasing Aging mode, press [POWER] key over 10 seconds.</p> |

Aging Contents (Example):



| Item | | FL display | Key operation |
|----------------------------|--|---|--|
| Mode name | Description | | Front Key |
| Demonstration lock/unlock | Ejection of the disc is prohibited. The lock setting is effective until unlocking the tray and not released by Main unit initialization of service mode. | *When lock the tray. <div style="border: 1px solid black; padding: 5px; text-align: center;">LOCK</div> LOCK is displayed for 3 seconds. | When the power is on (SS mode), press [SKIP FWD] and [OPEN/CLOSE] keys simultaneously for 5 seconds. Note: When a disc is not in tray, this setting is not effective. |
| | | *When unlock the tray. <div style="border: 1px solid black; padding: 5px; text-align: center;">UNLOCK</div> UNLOCK is displayed for 3 seconds. | When the power is on (SS mode), press [SKIP FWD] and [OPEN/CLOSE] keys simultaneously for 5 seconds. |
| | | *When press OPEN/CLOSE key while the tray being locked. <div style="border: 1px solid black; padding: 5px; text-align: center;">LOCK</div> Display LOCK for 3 seconds. | Press [OPEN/CLOSE] key while the tray is being locked. |
| Progressive initialization | The progressive setting is initialized to Interlace. | The display before execution leaves. <div style="border: 1px solid black; padding: 5px; text-align: center;">*****</div> | When the power is on (SS mode), press [STOP] and [PLAY] simultaneously for 5 seconds. |

7.1.3. Service Modes at a glance

Service mode setting: While the power is off, press [SKIP FWD], [PAUSE] and [OPEN / CLOSE] simultaneously for five seconds.

| Item | | FL display | Key operation (Remote controller key) |
|-----------------------------|--|---|--|
| Mode name | Description | | |
| Release Items | Item of Service Mode executing is cancelled. | <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">SERV</div> | Press [0] [0] or [Return] in service mode. |
| Error Code Display | Last Error Code of U/H/F held by Timer is displayed on FL. *Details are described in 7.1.1. Self-Diagnosis Functions . | <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">♣ □ □</div> <p>*♣ shows U/H/F. □□ shows number.</p> <p>If any error history dose not exist, [F00] is displayed.</p> | Press [0] [1] in service mode |
| ROM Version Display | 1. Region code (displayed for 5 sec.) 2. Main firm version (displayed for 5 sec.) 3. Timer firm version (displayed for 5 sec.) 4. Drive firm version (displayed for 5 sec.) 5. ROM correction version (left displayed) | <p>1. <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">NO\$%</div></p> <p>\$: Region of DVD (Example: 1,2.....) %: Region of BD (Example: A,B.....)</p> <p>2. <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">*****</div></p> <p>3. <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">*****</div></p> <p>4. <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">*****</div></p> <p>5. <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">***</div></p> <p>* are version displays.</p> | Press [0] [2] in service mode |
| Drive check | Simple quality of BD/DVD drive. | <p>When BD/DVD drive is OK</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">DRV OK</div> <p>When BD/DVD drive is NG</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">DRV NG</div> <p>*If the date of the present or the trouble occurred time is incorrect, it may be not able to judge correctly.</p> | Press [3] [8] in service mode. |
| Laser Used Time Indicatoion | Check laser used time (hours) of drive. | <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">*****</div> <p>I(****) is the used time display in hour. ILaser used time of DVD/ CD in Playback/Recording mode is counted.</p> | Press [4] [1] in service mode. |

| Item | | FL display | Key operation |
|-------------------------|----------------------------------|---|--------------------------------|
| Mode name | Description | | (Remote controller key) |
| BD/DVD drive last error | BD/DVD drive error code display. | <p>1. Error Number is displayed for 5 seconds.</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">NO **</div> <p>2. Time when the error has occurred is display for 5 seconds.</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">DDhhmm</div> <p>DD : Day hh : Hour mm : Minute</p> <p>3. Last drive error (1/2) is displayed for 5 seconds.</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">*****</div> <p>00 : Bad disc 03 : Bad disc 04 : Bad disc or drive malfunction</p> <p>4. Last drive error (2/2) is displayed for five seconds.</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">*****</div> <p>5. Error occurring disc type is displayed for 5 seconds.</p> <p>DVD-RW</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">DVDRW</div> <p>CD-R</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">CDR</div> <p>CD-RW</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">CDRW</div> <p>DVD+R</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">DVDPR</div> <p>DVD+RW</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">DVDPRW</div> <p>BD-ROM</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">BDROM</div> | Press [4] [2] in service mode. |

| Item | | FL display | Key operation (Remote controller key) | | | | | | | | | | | | |
|-----------|---------------|--|--|---------|---|----|---|---------------|---|---------------|---|-------|---------|--------|--|
| Mode name | Description | | | | | | | | | | | | | | |
| | | BD-RE <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">BDRE</div> BD-R <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">BDR</div> DVD ROM <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">DVD</div> CD <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">CD</div> RAM (2.6GB) <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">RAM26</div> RAM (4.7GB) <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">RAM47</div> DVD-R <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">DVDR</div> Others <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">MEDIA*</div> <small>* is displayed the respeced value from RTSC.</small> | | | | | | | | | | | | | |
| | | 6. Disc maker ID is displayed for 5 seconds. <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">*****</div> 7. Factor of drive error (hexadecimal) occurring is left displayed. <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 5px auto;">* * + + □ □</div> <small>* * : Error occurring operation code (This is not used)</small> <small>+ + : Error occurring disc type</small> <table border="1" style="margin-left: 20px; margin-top: 5px;"> <tr><td>0</td><td>DVD-ROM</td></tr> <tr><td>1</td><td>CD</td></tr> <tr><td>2</td><td>2.6GB DVD-RAM</td></tr> <tr><td>3</td><td>4.7GB DVD-RAM</td></tr> <tr><td>4</td><td>DVD-R</td></tr> <tr><td>After 5</td><td>Others</td></tr> </table> | 0 | DVD-ROM | 1 | CD | 2 | 2.6GB DVD-RAM | 3 | 4.7GB DVD-RAM | 4 | DVD-R | After 5 | Others | In case that the maker cannot be identified, display is black out. |
| 0 | DVD-ROM | | | | | | | | | | | | | | |
| 1 | CD | | | | | | | | | | | | | | |
| 2 | 2.6GB DVD-RAM | | | | | | | | | | | | | | |
| 3 | 4.7GB DVD-RAM | | | | | | | | | | | | | | |
| 4 | DVD-R | | | | | | | | | | | | | | |
| After 5 | Others | | | | | | | | | | | | | | |

| Item | | FL display | Key operation (Remote controller key) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|--|--|---|--------|--|--|--|------------------|---------------------------|-----------------------|------|----|----|------|------------|------|----|----|------|------------|-----|----|----|------|--------|------|----|----|------|--------|-----|----|----|---------|------------|------|----|----|---------|------------|-----|----|----|---------|--------|------|----|----|---------|--------|-----|----|----|------|------------|------|----|----|------|------------|-----|----|----|------|--------|------|----|----|------|--------|-----|----|----|---------|------------|------|----|----|---------|------------|-----|----|----|---------|--------|------|----|----|---------|--------|-----|--|
| Mode name | Description | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <input type="checkbox"/> <input type="checkbox"/> : Error occurring disc situation <table border="1"> <thead> <tr> <th rowspan="2">Display</th> <th colspan="4">Detail</th> </tr> <tr> <th>Disc distinction</th> <th>With or without Cartridge</th> <th>Disc cart-ridge state</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>00</td><td>OK</td><td>With</td><td>Not opened</td><td>12cm</td></tr> <tr><td>10</td><td>OK</td><td>With</td><td>Not opened</td><td>8cm</td></tr> <tr><td>20</td><td>OK</td><td>With</td><td>Opened</td><td>12cm</td></tr> <tr><td>30</td><td>OK</td><td>With</td><td>Opened</td><td>8cm</td></tr> <tr><td>40</td><td>OK</td><td>Without</td><td>Not opened</td><td>12cm</td></tr> <tr><td>50</td><td>OK</td><td>Without</td><td>Not opened</td><td>8cm</td></tr> <tr><td>60</td><td>OK</td><td>Without</td><td>Opened</td><td>12cm</td></tr> <tr><td>70</td><td>OK</td><td>Without</td><td>Opened</td><td>8cm</td></tr> <tr><td>80</td><td>NG</td><td>With</td><td>Not opened</td><td>12cm</td></tr> <tr><td>90</td><td>NG</td><td>With</td><td>Not opened</td><td>8cm</td></tr> <tr><td>A0</td><td>NG</td><td>With</td><td>Opened</td><td>12cm</td></tr> <tr><td>B0</td><td>NG</td><td>With</td><td>Opened</td><td>8cm</td></tr> <tr><td>C0</td><td>NG</td><td>Without</td><td>Not opened</td><td>12cm</td></tr> <tr><td>D0</td><td>NG</td><td>Without</td><td>Not opened</td><td>8cm</td></tr> <tr><td>E0</td><td>NG</td><td>Without</td><td>Opened</td><td>12cm</td></tr> <tr><td>F0</td><td>NG</td><td>Without</td><td>Opened</td><td>8cm</td></tr> </tbody> </table> | Display | Detail | | | | Disc distinction | With or without Cartridge | Disc cart-ridge state | Size | 00 | OK | With | Not opened | 12cm | 10 | OK | With | Not opened | 8cm | 20 | OK | With | Opened | 12cm | 30 | OK | With | Opened | 8cm | 40 | OK | Without | Not opened | 12cm | 50 | OK | Without | Not opened | 8cm | 60 | OK | Without | Opened | 12cm | 70 | OK | Without | Opened | 8cm | 80 | NG | With | Not opened | 12cm | 90 | NG | With | Not opened | 8cm | A0 | NG | With | Opened | 12cm | B0 | NG | With | Opened | 8cm | C0 | NG | Without | Not opened | 12cm | D0 | NG | Without | Not opened | 8cm | E0 | NG | Without | Opened | 12cm | F0 | NG | Without | Opened | 8cm | |
| Display | Detail | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Disc distinction | With or without Cartridge | Disc cart-ridge state | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 00 | OK | With | Not opened | 12cm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | OK | With | Not opened | 8cm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | OK | With | Opened | 12cm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | OK | With | Opened | 8cm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40 | OK | Without | Not opened | 12cm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50 | OK | Without | Not opened | 8cm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60 | OK | Without | Opened | 12cm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 70 | OK | Without | Opened | 8cm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80 | NG | With | Not opened | 12cm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 90 | NG | With | Not opened | 8cm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A0 | NG | With | Opened | 12cm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B0 | NG | With | Opened | 8cm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C0 | NG | Without | Not opened | 12cm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D0 | NG | Without | Not opened | 8cm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E0 | NG | Without | Opened | 12cm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F0 | NG | Without | Opened | 8cm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CEC (H) output | Check of the CEC terminal high output of HDMI. | When the check is OK <div style="border: 1px solid black; padding: 5px; text-align: center;">CECHOK</div> When the check is NG <div style="border: 1px solid black; padding: 5px; text-align: center;">CECHNG</div> | Press [5] [5] in service mode. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CEC (L) output | Check of the CEC terminal low output of HDMI. | When the check is OK <div style="border: 1px solid black; padding: 5px; text-align: center;">CECHOK</div> When the check is NG <div style="border: 1px solid black; padding: 5px; text-align: center;">CECHNG</div> | Press [5] [6] in service mode. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tray OPEN/CLOSE Test | The DVD drive tray is opened and closed repeatedly. | <div style="border: 1px solid black; padding: 5px; text-align: center;">*****</div> * is number of open/close cycle times. | Press [9] [1] in service mode *When releasing this mode, press the [POWER] button of Remote Controller more than 10 seconds. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Delete the Laser Used Time | Laser used time stored in the memory of the unit is deleted. | <div style="border: 1px solid black; padding: 5px; text-align: center;">CLR</div> | Press [9] [5] in service mode. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Delete the Last Drive Error | Delete the Last Drive Error information stored on the DVD Drive. | <div style="border: 1px solid black; padding: 5px; text-align: center;">CLR</div> | Press [9] [6] in service mode. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Delete the Error History | Delete Error History information stored on the unit. | <div style="border: 1px solid black; padding: 5px; text-align: center;">CLR</div> | Press [9] [7] in service mode. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Error code initialization | Initialization of the last error code held by timer (Write in F00) | <div style="border: 1px solid black; padding: 5px; text-align: center;">CLR</div> | Press [9] [8] in service mode. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Initialize Service | Last Drive Error, Error history and Error Codes stored on the unit are initialized to factory setting. | <div style="border: 1px solid black; padding: 5px; text-align: center;">CLR</div> | Press [9] [9] in service mode. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Finishing service mode | Release Service Mode. | Display in STOP (SS) mode. <div style="border: 1px solid black; padding: 5px; text-align: center;">*****</div> | Press power button on the front panel or Remote controller in service mode. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

8 Service Fixture & Tools

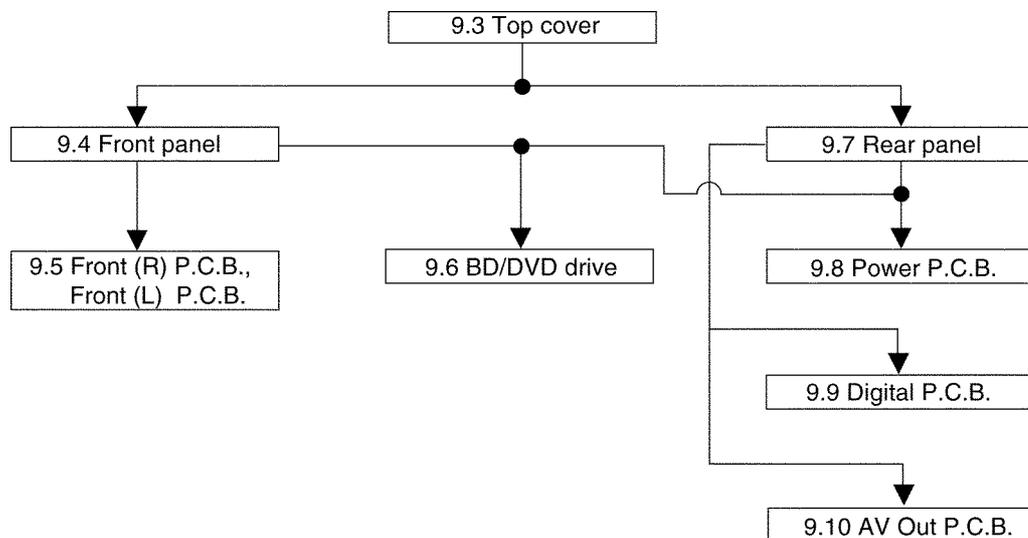
| Part Number | Description | Pcs | Compatibility |
|-------------|--|-----|--------------------------|
| RFKZ0216 | Extension Cable (AV Out P.C.B. - Digital P.C.B./ 23 Pin) | 2 | Same as EH55 Series |
| | Extension Cable (Power P.C.B. - Digital P.C.B. / 23 Pin) | 2 | |
| RFKZ0366 | Extension FFC (BD/DVD Drive - Digital P.C.B. / 40 Pin) | 1 | Same as EH55 Series |
| RFKZ0169 | Extension Cable (Power P.C.B. - BD/DVD Drive / 4 Pin) | 1 | Same as E50/E100 Series |
| RFKZ0323 | Extension Cable (Power P.C.B. - Digital P.C.B. / 9 Pin) | 1 | Same as BD10 |
| RFKZ0324 | Extension Cable (Power P.C.B. - Front (R) P.C.B. / 18 Pin) | 1 | New |
| JZS0484 | Eject Pin | 1 | Same as ES15/ E50 Series |
| RFKZ03D01K | Lead Free Solder (0.3mm/100g Reel) | - | Same as EH55 Series |
| RFKZ06D01K | Lead Free Solder (0.6mm/100g Reel) | - | Same as EH55 Series |
| RFKZ10D01K | Lead Free Solder (1.0mm/100g Reel)) | - | Same as EH55 Series |
| RFKZ0316 | Solder Remover (Lead free 10W temperature Solder/180g) | - | Same as EH55 Series |
| RFKZ0328 | Flux | - | Same as EH55 Series |
| RFKZ0329 | Bottle of Flux | - | Same as EH55 Series |

9 Disassembly and Assembly Instructions

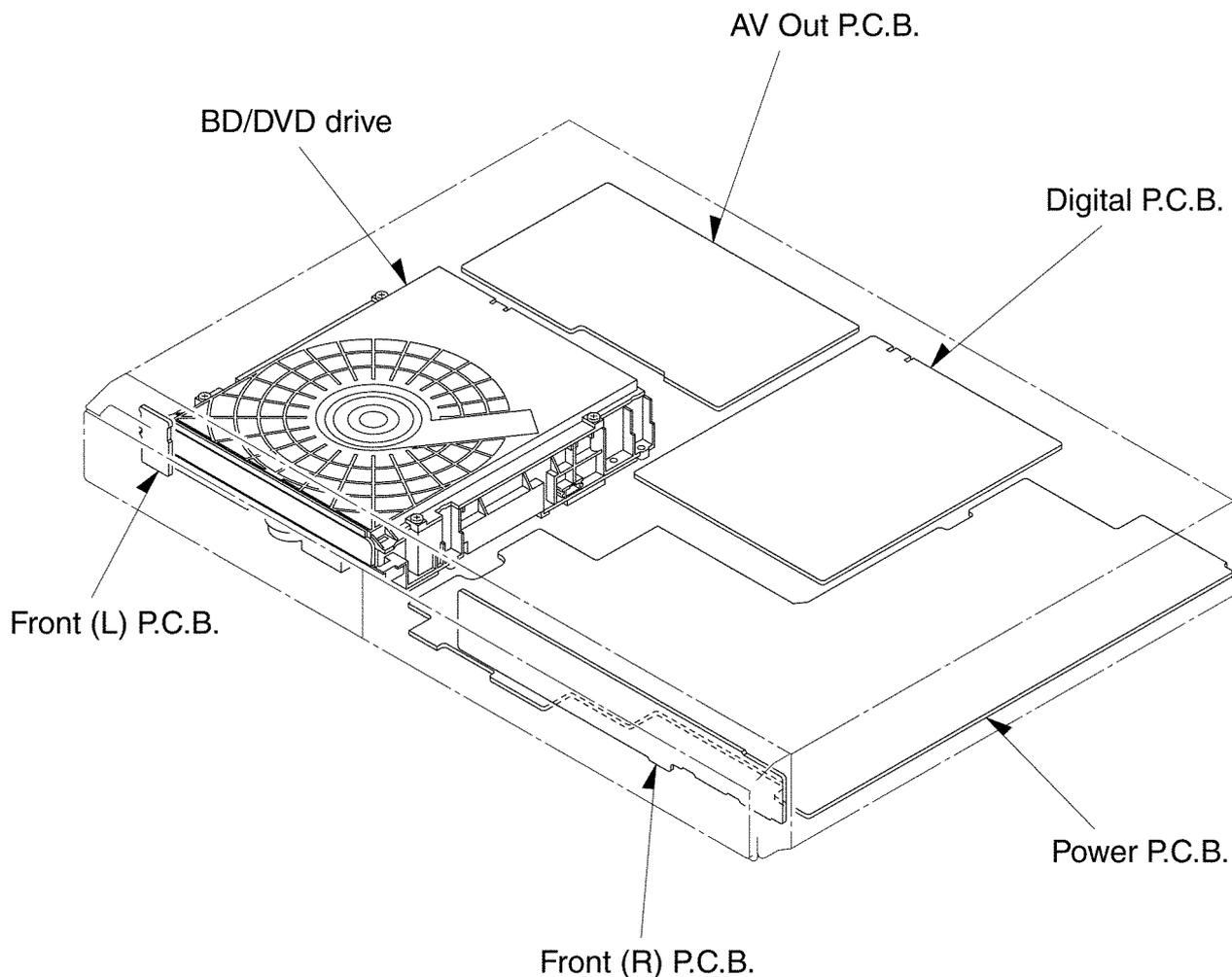
9.1. Disassembly Flow Chart

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

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

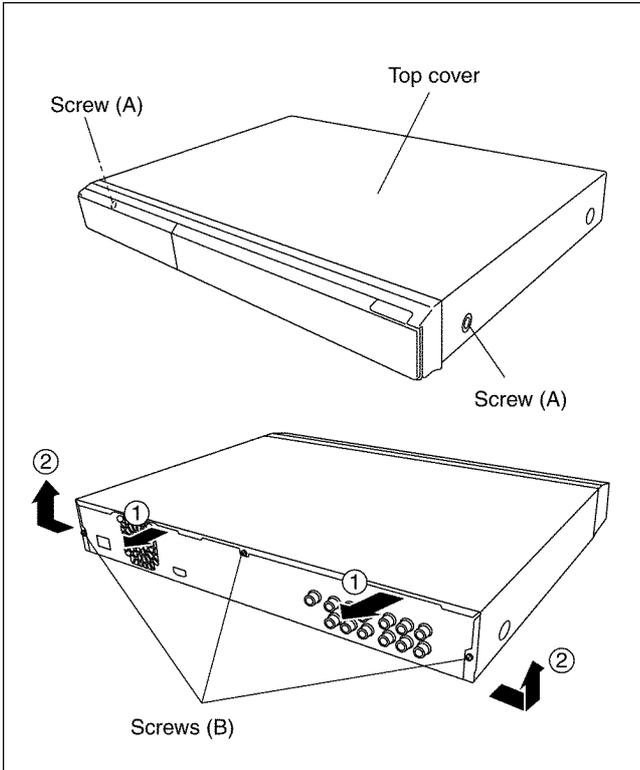


9.2. P.C.B. Positions



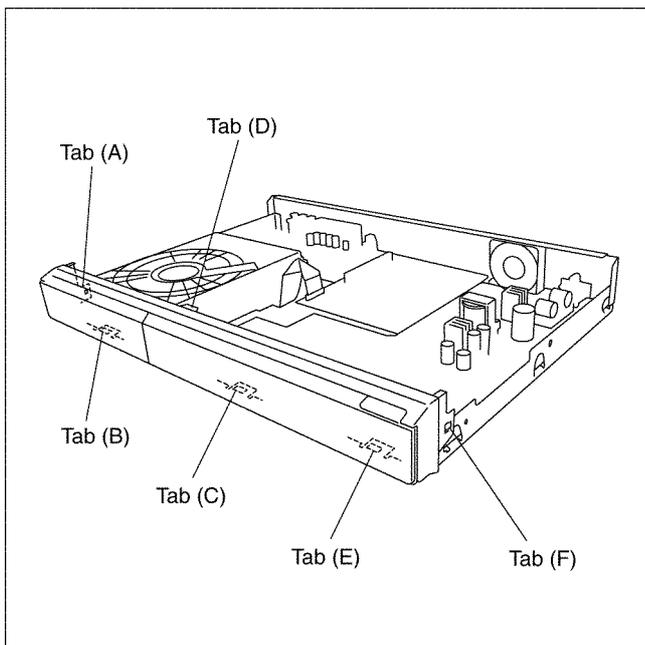
9.3. Top cover

1. Remove the 2 screws (A) and 3 screws (B).
2. Slide top case rearward and open the both ends at rear side of the top case a little and lift the top case in the direction of the arrows.



9.4. Front panel

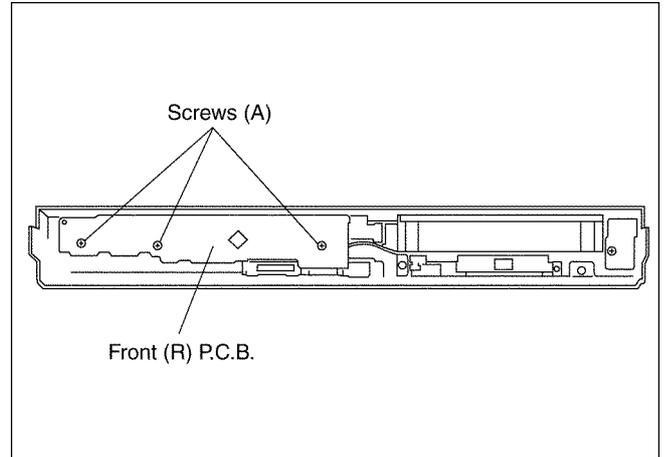
1. Unlock 6 tabs (A) - (F) turn.
Pull with the front panel in the direction of your side.



9.5. Front (R) P.C.B., Front (L) P.C.B.

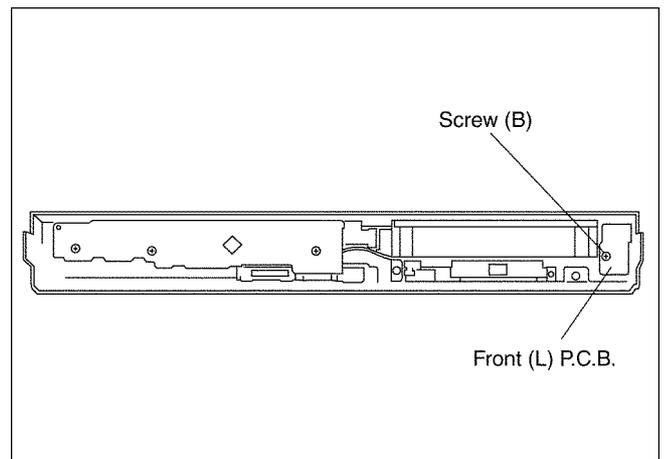
9.5.1. Front (R) P.C.B.

1. Remove the 3 screws (A).
2. Remove the Front (R) P.C.B.



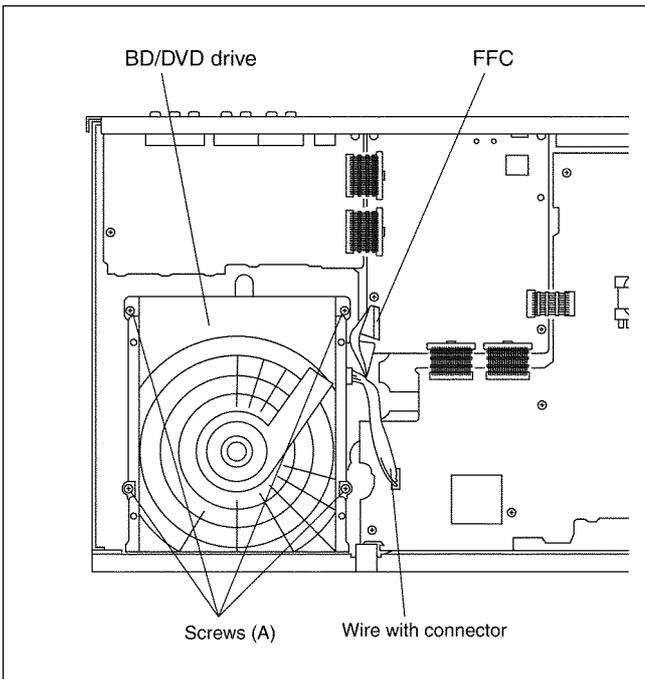
9.5.2. Front (L) P.C.B.

1. Remove the screw (B).
2. Remove the Front (L) P.C.B.



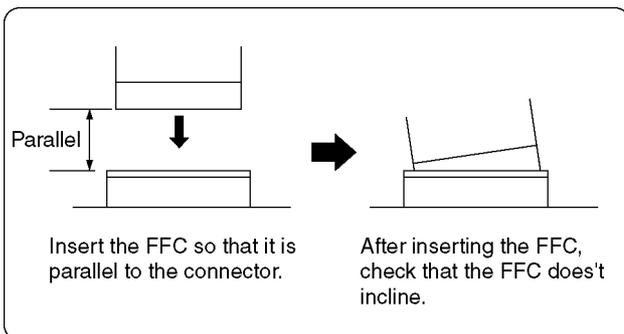
9.6. BD/DVD drive

1. Remove the FFC and wire with connector.
2. Remove the 4 screws (A) to remove the BD/DVD drive.



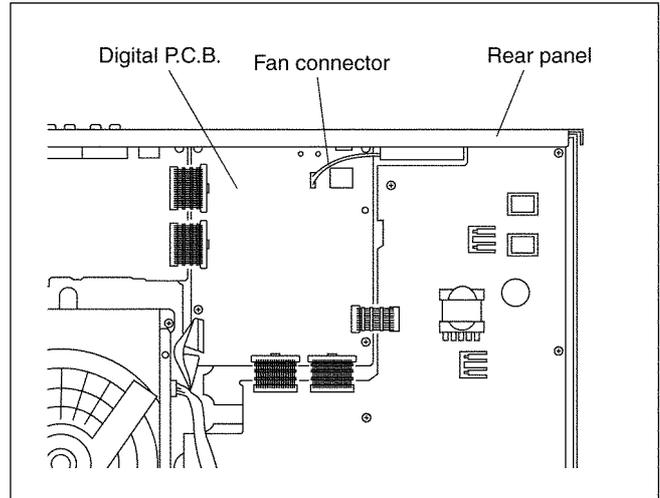
CAUTION:

When replacing BD/DVD drive, pay attention as below.

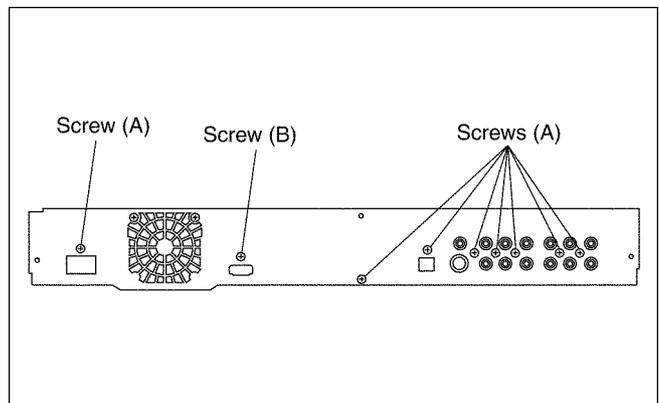


9.7. Rear panel

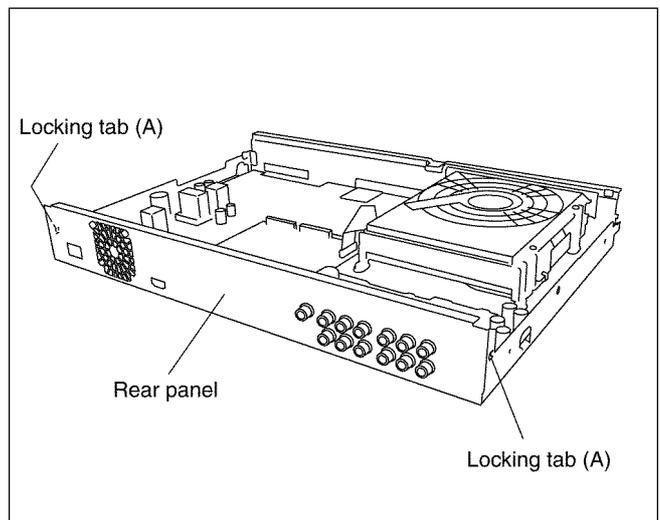
1. Remove the fan connector from Digital P.C.B..



2. Remove the 8 screws (A) and screw (B).

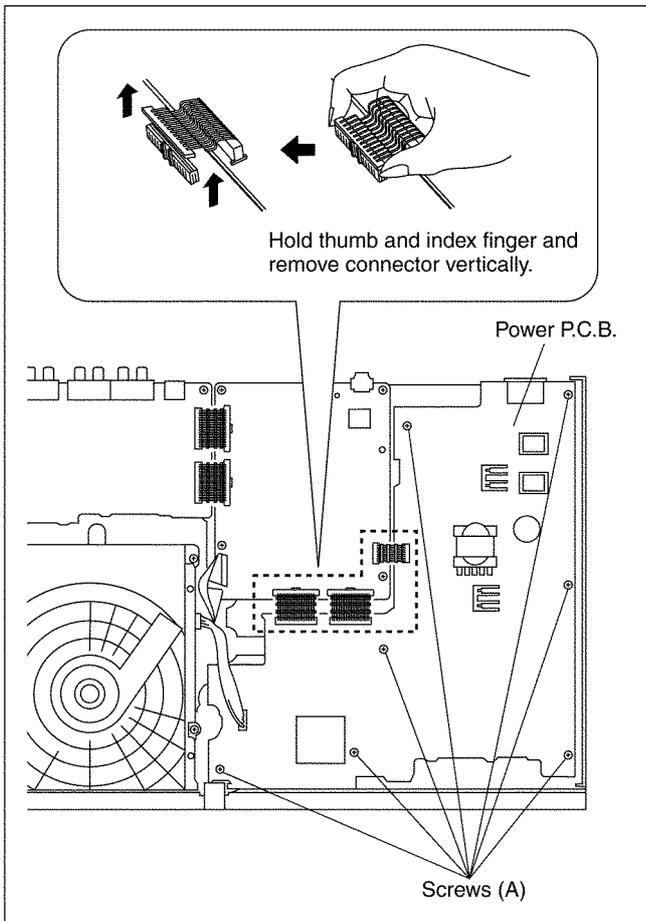


3. Unlock 2 locking tabs (A) to remove the rear panel.



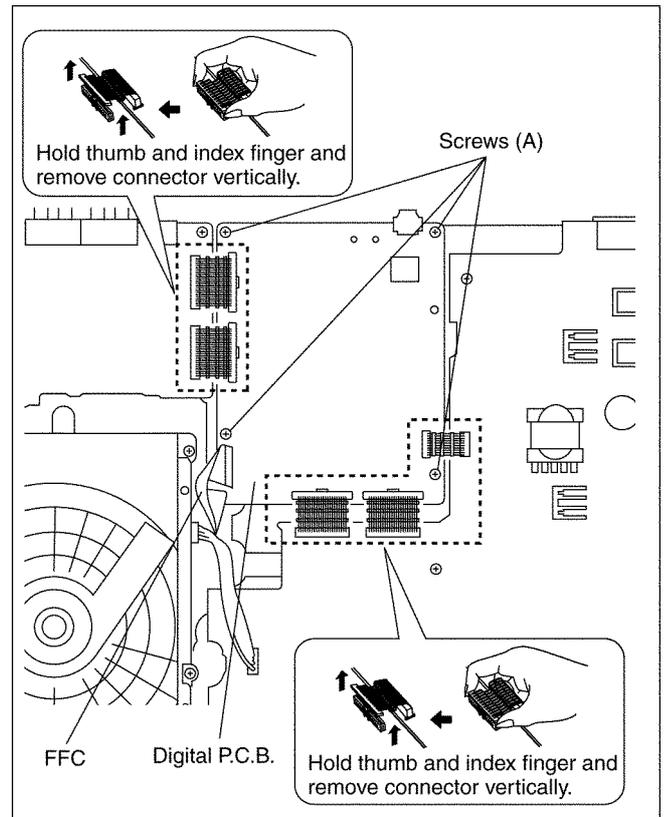
9.8. Power P.C.B.

1. Remove 7 screws (A) and 3 connectors to remove Power P.C.B.



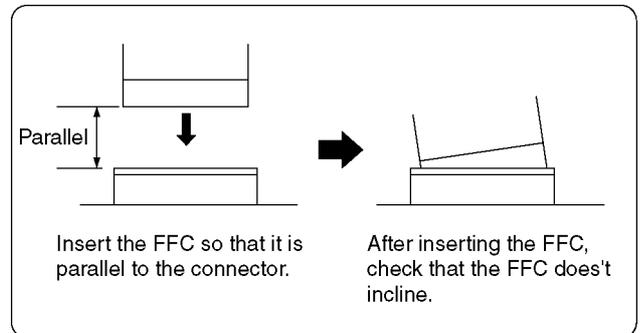
9.9. Digital P.C.B.

1. Remove the FFC.
2. Remove 4 screws (A) and 5 connectors to remove Digital P.C.B..



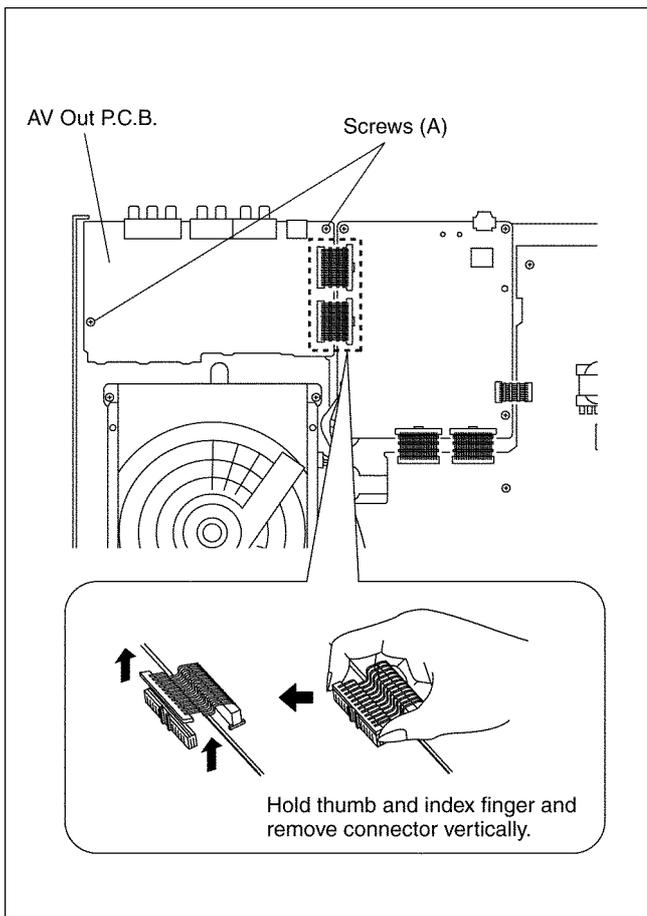
CAUTION:

When replacing Digital P.C.B., pay attention as below.



9.10. AV Out P.C.B.

1. Remove 2 screws (A) and 2 connectors to remove AV Out P.C.B.



10 Measurements and Adjustments

10.1. Service Positions

Note:

For description of the disassembling procedure, see the section 9.

10.1.1. Checking and Repairing of Power P.C.B.

1. Top Cover

Remove 3 Screws on rear.

Remove 2 Screws on side.

Remove Top Cover.

2. Front Panel

Unlock the 6 Tabs that is locking Front Panel Ass'y and Bottom Chassis.

Remove the Front Panel Ass'y.

3. Power P.C.B.

Remove the 9 Screws that is fixing the Rear Panel.

Disconnect the Fan Connector, and remove the Rear Panel.

Disconnect the Cable from the BD/DVD Drive.

Disconnect the 2 Connectors (23 pin) and the Connector (9 pin) between Power and Digital P.C.B.

Remove the 7 Screws, and remove the Power P.C.B..

Install the Rear Panel back and connect the Fan Connector again.

Connect Extension Cables shown below.

Between Power P.C.B. and Digital P.C.B.: (RFKZ0216) 23pin x 2

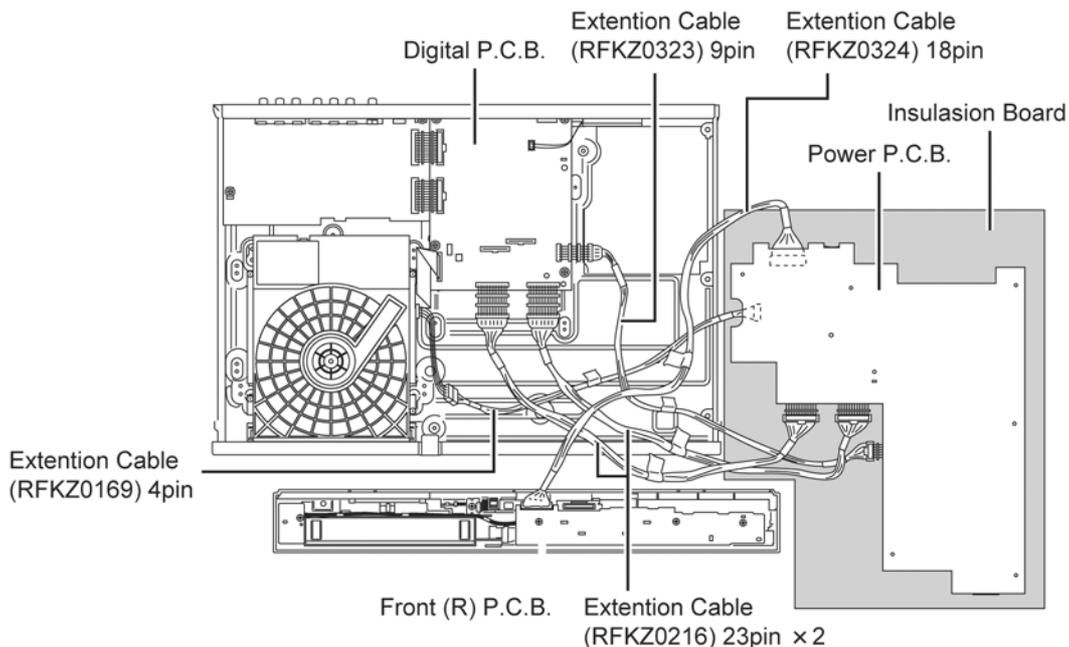
Between Power P.C.B. and Digital P.C.B.: (RFKZ0323) 9pin

Between Power P.C.B. and Front (R) P.C.B.: (RFKZ0324) 18pin

Between Power P.C.B. and BD/DVD Drive : (RFKZ0169) 4pin

Caution:

Red wire should be connected to pin1.



10.1.2. Checking and Repairing of BD/DVD Drive

1. Top Cover

Remove 3 Screws on rear.

Remove 2 Screws on side.

Remove Top Cover.

2. BD/DVD Drive

Remove the 4 Screws that is fixing the BD/DVD Drive.

Disconnect the FFC (40pin) from the Connector on the Digital P.C.B.

Disconnect the Cable (4pin) from the Connector on the Power P.C.B.

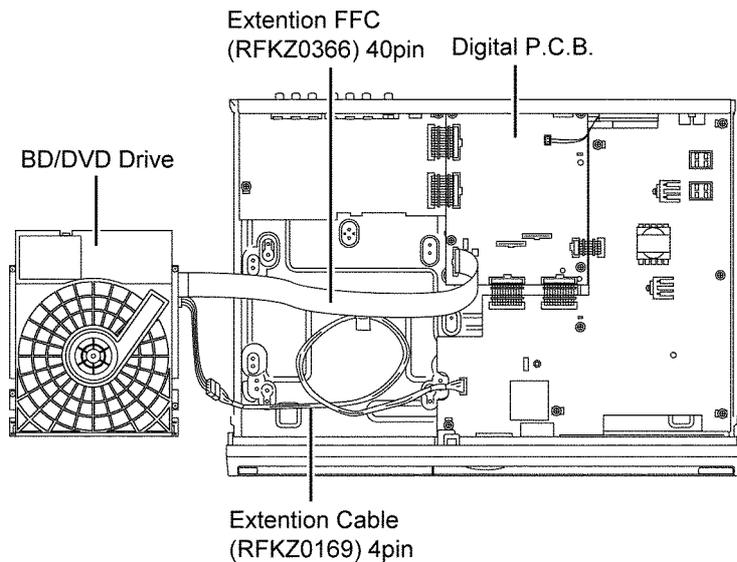
Remove the BD/DVD Drive.

Connect Extension FFC and Extension Cables shown below.

- Between BD/DVD Drive and Digital P.C.B.: (RFKZ0366) 40pin
- Between BD/DVD Drive and Power P.C.B.: (RFKZ0169) 4pin

Caution:

Red wire should be connected to pin1.



10.1.3. Checking and Repairing of AV Out P.C.B.

1. Top Cover

Remove 3 Screws on rear.

Remove 2 Screws on side.

Remove Top Cover.

2. AV Out P.C.B.

Remove the 9 Screws that is fixing the Rear Panel.

Disconnect the Fan Connector, and remove the Rear Panel.

Disconnect the 2 Connectors (23pin) between AV Out and Digital P.C.B.

Remove the 2 Screws, and remove the AV Out P.C.B.

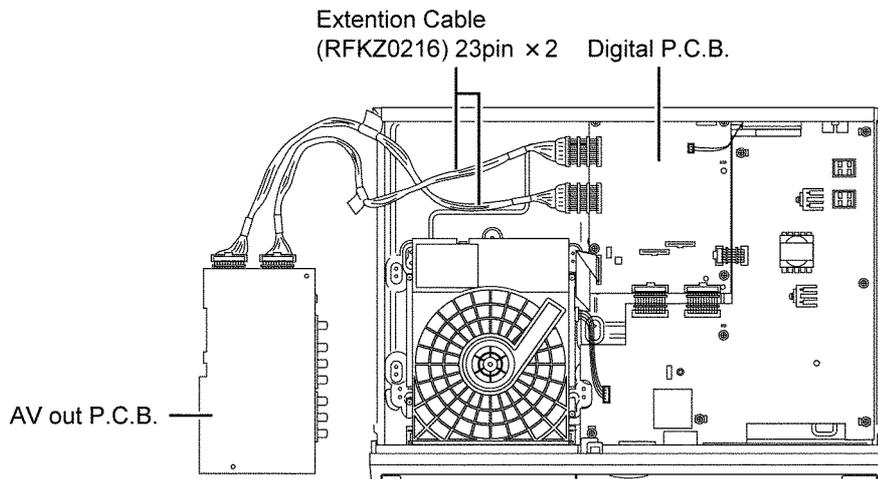
Install the Rear Panel back and connect the Fan Connector again.

Connect the Extension Cables shown below.

- Between AV Out P.C.B. and Digital P.C.B.: (RFKZ0216) 23pin x 2

Caution:

Red wire should be connected to pin1.



10.1.4. Checking and Repairing of Digital P.C.B.

1. Top Cover

Remove 3 Screws on rear.

Remove 2 Screws on side.

Remove Top Cover.

2. Digital P.C.B.

Remove the 9 Screws that is fixing the Rear Panel.

Disconnect the Fan Connector, and remove the Rear Panel.

Disconnect the 2 Connectors (23 pin) and the Connector (9 pin) between Digital and Power P.C.B.

Disconnect the 2 Connectors (23 pin) between Digital and AV Out P.C.B.

Disconnect the FFC between Digital P.C.B. and the BD/DVD Drive.

Remove the 4 Screws, and remove the Digital P.C.B.

3. Fan Motor

Remove the 2 Screws that is fixing the Fan Motor on the Rear Panel.

Remove the Fan Motor.

Connect Extension FFC and Cables shown below.

Between Digital P.C.B. and Power P.C.B.: (RFKZ0216) 23pin x 2

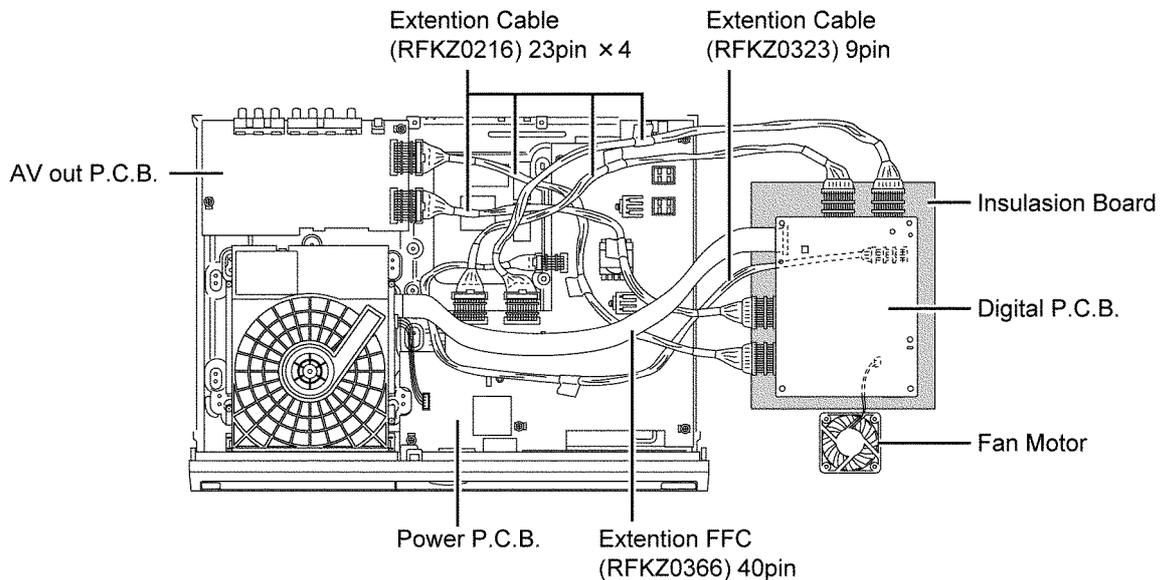
Between Digital P.C.B. and AV Out P.C.B.: (RFKZ0216) 23pin x 2

Between Digital P.C.B. and Power P.C.B.: (RFKZ0323) 9pin

Between Digital P.C.B. and BD/DVD Drive: (RFKZ0366) 40pin

Caution:

Red wire should be connected to pin1.



10.1.5. Caution for Replacing Parts

10.1.5.1. Notice after replacing Digital P.C.B.

After replacing Digital P.C.B., **TEST** is displayed on FL.
Once power off, and start-up again.

10.1.5.2. Items that should be done after replacing parts

√: Necessary —: Unnecessary

| | |
|------------------------------|-------------------------------|
| Items that Should be done | Updating Firmware (Note 1) |
| Replacing Parts | |
| Digital P.C.B. | √ |

Note 1:

Download latest Firmware and burn it on CD-R or CD-RW, and update Firmware.

10.1.5.3. Standard Inspection Specifications after Making Repairs

After making repairs, we recommend performing the following inspection, to check normal operation.

| No. | Procedure | Item to Check |
|-----|--|---|
| 1 | Turn on the power, and confirm items pointed out. | Items pointed out should reappear. |
| 2 | Insert RAM disc. | The Panasonic RAM disc should be recognized. |
| 4 | Perform playback for one minute using the RAM disc. | No abnormality should be seen in the picture, sound or operation. *Panasonic DVD-RAM disc should be used when recording and playback. |
| 5 | Perform playback for one minute using the BD-Video disc. | No abnormality should be seen in the picture, sound or operation. |
| 6 | If a problem is caused by a BD-Video disc, VCD, DVD-R, DVD-Video, Audio-CD, or MP3, playback the test disc. | No abnormality should be seen in the picture, sound or operation. |
| 7 | After checking and making repairs, upgrade the firmware to the latest version. | Make sure that [UPD OK] appears in the FL displays. *[UNSUPPORT] display means the unit is already updated to newest same version. Then version up is not necessary. |
| 8 | Transfer [9][9] in the service mode setting, and initialize the service settings (return various settings and error information to their default values. The laser time is not included in this initialization). | Make sure that [CLR] appears in the FL display. After checking it, turn the power off. |

Use the following checklist to establish the judgment criteria for the picture and sound.

| Item | Contents | Check | Item | Contents | Check |
|--------------|--------------------|-------|-------|--|-------|
| Picture | Block noise | | Sound | Distorted sound | |
| | Crosscut noise | | | Noise (static, background noise, etc.) | |
| | Dot noise | | | The sound level is too low. | |
| | Picture disruption | | | The sound level is too high. | |
| | Not bright enough | | | The sound level changes. | |
| | Too bright | | | | |
| | Flickering color | | | | |
| Color fading | | | | | |

Service Manual

Diagrams and Replacement Parts List

Blu-ray Disc Player

Model No.
DMP-BD30PP
DMP-BD30PL

Vol. 1
Colour
(K).....Black Type

S1. About Indication of The Schematic Diagram

S1.1. Important Safety Notice

COMPONENTS IDENTIFIED WITH THE MARK \triangle HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS USE ONLY THE SAME TYPE.

1. Although reference number of the parts is indicated on the P.C.B. drawing and/or schematic diagrams, it is NOT mounted on the P.C.B. when it is displayed with "\$" mark.
2. It is only the "Test Round" and no terminal (Pin) is available on the P.C.B. when the TP (Test Point) indicated as "●" mark.
3. The voltage being indicated on the schematic diagram is measured in "Standard-Playback" mode when there is no specify mode is mentioned.
4. Although the voltage and waveform available on here is measured with standard frame, it may be differ from actual measurement due to modification of circuit and so on.
5. The voltage being indicated here may be include observational-error (deviation) due to internal-resistance and/or reactance of equipment. Therefore, handle the value indicated on here as reference.
6. Use the parts number indicated on the Replacement Parts List .
7. Indication on Schematic diagrams:

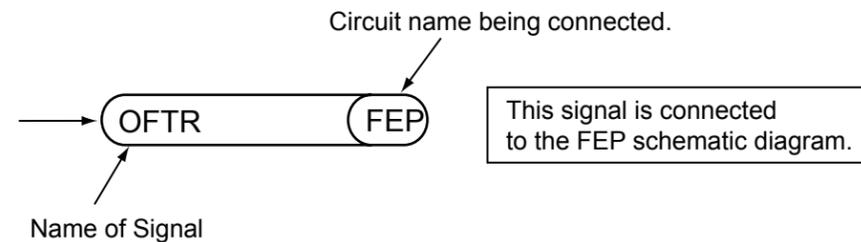


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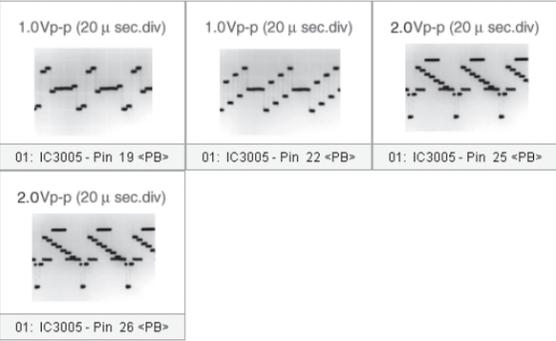
S2. Voltage and Waveform Chart

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.

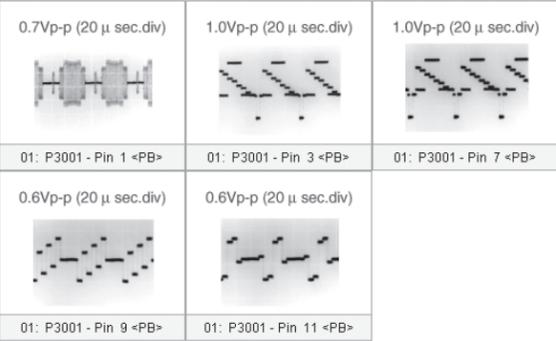
S2.1. AV Main P.C.B.

| REF No. | PIN No. | PB | STOP | REF No. | PIN No. | PB | STOP | REF No. | PIN No. | PB | STOP |
|---------|---------|-----|------|---------|---------|-------|-------|---------|---------|-------|-------|
| IC3005 | 1 | 2.4 | 2.4 | P3001 | 2 | 0 | 0 | Q4007 | C | 0 | 0 |
| IC3005 | 2 | 0 | 0 | P3001 | 3 | 1.2 | 1.2 | Q4007 | B | -5.8 | 0.7 |
| IC3005 | 3 | 0 | 0 | P3001 | 4 | 0 | 0 | Q4008 | E | 0 | 0 |
| IC3005 | 4 | 5 | 5 | P3001 | 5 | 0 | 0 | Q4008 | C | 0 | 0 |
| IC3005 | 5 | 1.8 | 1.6 | P3001 | 6 | 0 | 0 | Q4008 | B | -5.8 | 0.7 |
| IC3005 | 6 | 0 | 0 | P3001 | 7 | 1.4 | 1.4 | Q4009 | E | 0 | 0 |
| IC3005 | 7 | 3 | 3 | P3001 | 8 | 3.2 | 3.2 | Q4009 | C | 0 | 0 |
| IC3005 | 8 | 0 | 0 | P3001 | 9 | 1.3 | 1.3 | Q4009 | B | -5.8 | 0.7 |
| IC3005 | 9 | 0 | 0 | P3001 | 10 | 3.2 | 3.2 | Q4012 | E | 0 | 0 |
| IC3005 | 10 | 0 | 0 | P3001 | 11 | 1.5 | 1.5 | Q4012 | C | 0 | 0 |
| IC3005 | 11 | 5 | 5 | P3001 | 12 | 0 | 0 | Q4012 | B | -5.8 | 0.7 |
| IC3005 | 12 | 1.8 | 1.8 | P3001 | 13 | 0 | 0 | Q4013 | E | 0 | 0 |
| IC3005 | 13 | 0 | 0 | P3001 | 14 | 0 | 0 | Q4013 | C | 0 | 0 |
| IC3005 | 14 | 2.4 | 2.4 | P3001 | 15 | 3.3 | 3.3 | Q4013 | B | -5.8 | 0.7 |
| IC3005 | 15 | 0 | 0 | P3001 | 16 | 0 | 0 | Q4014 | E | 0 | 0 |
| IC3005 | 16 | 2.4 | 2.4 | P3001 | 17 | 0 | 0 | Q4014 | C | 0 | 0 |
| IC3005 | 17 | 0 | 0 | P3001 | 18 | 3.3 | 3.3 | Q4014 | B | -5.8 | 0.7 |
| IC3005 | 18 | 0 | 0 | P3001 | 19 | 5.9 | 5.9 | Q4015 | E | 0 | 0 |
| IC3005 | 19 | 2.4 | 2.4 | P3001 | 20 | 3.3 | 3.3 | Q4015 | C | 0 | 0 |
| IC3005 | 20 | 0 | 0 | P3001 | 21 | 0 | 0 | Q4015 | B | -5.8 | 0.7 |
| IC3005 | 21 | 0 | 0 | P3001 | 22 | 3.3 | 3.3 | QR3006 | E | 0 | 0 |
| IC3005 | 22 | 2.4 | 2.4 | P3001 | 23 | 3.1 | 3.1 | QR3006 | C | 0 | 0 |
| IC3005 | 23 | 0 | 0 | P4001 | 1 | 1.6 | 1.6 | QR3006 | B | 1.9 | 1.9 |
| IC3005 | 24 | 0 | 0 | P4001 | 2 | 5 | 5 | QR3008 | E | 0 | 0 |
| IC3005 | 25 | 2 | 1.7 | P4001 | 3 | 2.6 | 2.6 | QR3008 | C | 0 | 0 |
| IC3005 | 26 | 2 | 1.7 | P4001 | 4 | 0 | 0 | QR3008 | B | 1.9 | 1.9 |
| IC3005 | 27 | 0 | 0 | P4001 | 5 | 2.6 | 2.6 | QR4001 | 1 | 0 | 0 |
| IC3005 | 28 | 5 | 5 | P4001 | 6 | 0 | 0 | QR4001 | 2 | 0 | 0 |
| IC3005 | 29 | 2 | 1.6 | P4001 | 7 | 2.6 | 2.6 | QR4001 | 3 | 12.2 | 12.2 |
| IC3005 | 30 | 2 | 1.6 | P4001 | 8 | 0 | 0 | QR4001 | 4 | 12.1 | 12.1 |
| IC3005 | 31 | 0 | 0 | P4001 | 9 | 2.6 | 2.6 | QR4001 | 5 | 3.1 | 3.1 |
| IC3005 | 32 | 2 | 1.6 | P4001 | 10 | 0 | 0 | QR4001 | 6 | 0 | 0 |
| IC3005 | 33 | 2 | 1.6 | P4001 | 11 | 2.6 | 2.6 | QR4002 | E | 0.1 | 1.8 |
| IC3005 | 34 | 2.4 | 2.4 | P4001 | 12 | 0 | 0 | QR4002 | C | -5.8 | 1.3 |
| IC3005 | 35 | 0 | 0 | P4001 | 13 | 0 | 0 | QR4002 | B | 0 | 0 |
| IC3005 | 36 | 0 | 0 | P4001 | 14 | 0 | 0 | QR4003 | 1 | -11.7 | -11.7 |
| IC3005 | 37 | 0 | 0 | P4001 | 15 | 2.5 | 2.5 | QR4003 | 2 | 0 | 0 |
| IC3005 | 38 | 0 | 0 | P4001 | 16 | 0 | 0 | QR4003 | 3 | 12.2 | 12.2 |
| IC3101 | 1 | 5.9 | 5.9 | P4001 | 17 | 0 | 3.3 | QR4003 | 4 | 12.1 | 12.1 |
| IC3101 | 2 | 0 | 0 | P4001 | 18 | 4.2 | 4.2 | QR4003 | 5 | 12.1 | 12.1 |
| IC3101 | 3 | 3.3 | 3.3 | P4001 | 19 | 3.3 | 3.3 | QR4003 | 6 | -11.8 | -11.8 |
| IC3101 | 4 | 1.3 | 1.3 | P4001 | 20 | 11.6 | 11.6 | QR4004 | 1 | 0 | 0 |
| IC3101 | 5 | 0 | 0 | P4001 | 21 | 12.2 | 12.2 | QR4004 | 2 | 0 | 0 |
| IC3101 | 6 | 5 | 5 | P4001 | 22 | -11.2 | -11.2 | QR4004 | 3 | 12.2 | 12.2 |
| IC3401 | 1 | 1.6 | 1.6 | P4001 | 23 | -11.8 | -11.8 | QR4004 | 4 | 12.1 | 12.1 |
| IC3401 | 2 | 5 | 5 | Q3401 | E | 1.9 | 1.9 | QR4004 | 5 | 3.3 | 3.3 |
| IC3401 | 3 | 0 | 0 | Q3401 | C | 5 | 5 | QR4004 | 6 | 0 | 0 |
| IC3601 | 1 | 0 | 0 | Q3401 | B | 2.4 | 2.4 | QR4005 | E | 0 | 0 |
| IC3601 | 2 | 0 | 0 | Q4002 | E | 0 | 0 | QR4005 | C | 3.1 | 0 |
| IC3601 | 3 | 3.3 | 3.3 | Q4002 | C | 0 | 1.8 | QR4005 | B | 0 | 3.3 |
| IC3601 | 4 | 0 | 0 | Q4002 | B | 0.7 | 0 | | | | |
| IC3601 | 5 | 3.3 | 3.3 | Q4004 | E | 11.6 | 11.6 | | | | |
| IC3601 | 6 | 3.3 | 3.3 | Q4004 | C | 12.2 | 12.2 | | | | |
| IC3601 | 7 | 0 | 0 | Q4004 | B | 12.1 | 12.2 | | | | |
| IC3601 | 8 | 3.3 | 3.3 | Q4005 | E | -11.2 | -11.2 | | | | |
| IC4001 | 1 | 5.9 | 5.9 | Q4005 | C | -11.8 | -11.8 | | | | |
| IC4001 | 2 | 3.3 | 3.3 | Q4005 | B | -11.5 | -11.5 | | | | |
| IC4001 | 3 | 5 | 5 | Q4006 | E | 0 | 0 | | | | |
| IC4001 | 4 | - | - | Q4006 | C | 0 | 0 | | | | |
| IC4001 | 5 | 0 | 0 | Q4006 | B | -5.8 | 0.7 | | | | |
| P3001 | 1 | 1.4 | 1.4 | Q4007 | E | 0 | 0 | | | | |

<IC3005>



<P3001>



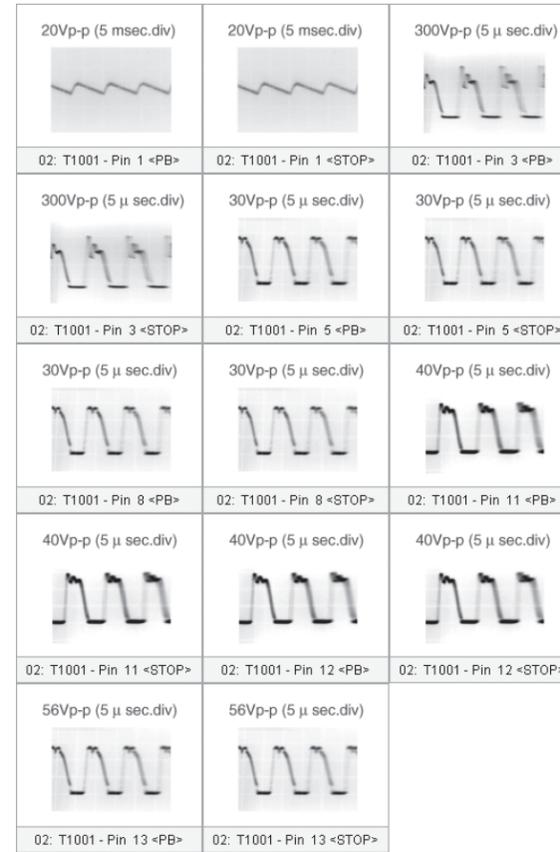
S2.2. Power/Timer P.C.B.

| REF No. | PIN No. | PB | STOP | REF No. | PIN No. | PB | STOP | REF No. | PIN No. | PB | STOP |
|---------|---------|-------|-------|---------|---------|-----|------|---------|---------|------|------|
| IC1021 | 1 | 2.5 | 2.5 | IC7501 | 19 | 3.1 | 3.1 | IC7501 | 80 | 3.3 | 3.3 |
| IC1021 | 2 | 1.7 | 1.7 | IC7501 | 20 | 3.3 | 3.3 | IC7501 | 81 | 0 | 0 |
| IC1021 | 3 | 0 | 0 | IC7501 | 21 | 3.3 | 3.3 | IC7501 | 82 | 0 | 0 |
| IC1021 | 4 | 14.8 | 14.8 | IC7501 | 22 | 0 | 0 | IC7501 | 83 | 0 | 0 |
| IC1021 | 5 | 0 | 0 | IC7501 | 23 | 0 | 0 | IC7501 | 84 | 0 | 0 |
| IC1021 | 6 | - | - | IC7501 | 24 | 3.3 | 3.3 | IC7501 | 85 | 0 | 0 |
| IC1021 | 7 | - | - | IC7501 | 25 | 3.3 | 3.3 | IC7501 | 86 | 0 | 0 |
| IC1021 | 8 | - | - | IC7501 | 26 | 3.3 | 3.3 | IC7501 | 87 | 0 | 0 |
| IC1021 | 9 | - | - | IC7501 | 27 | 3.3 | 3.3 | IC7501 | 88 | 0 | 0 |
| IC1101 | 1 | 8.1 | 8.1 | IC7501 | 28 | 3.1 | 3.1 | IC7501 | 89 | 0 | 0 |
| IC1101 | 2 | 2.4 | 2.4 | IC7501 | 29 | 3.3 | 3.3 | IC7501 | 90 | 0 | 0 |
| IC1101 | 3 | 0 | 0 | IC7501 | 30 | 0 | 0 | IC7501 | 91 | 3.3 | 3.3 |
| IC1102 | 1 | -15 | -15 | IC7501 | 31 | 0 | 0 | IC7501 | 92 | 0.1 | 0.1 |
| IC1102 | 2 | - | - | IC7501 | 32 | 0 | 0 | IC7501 | 93 | 0.1 | 0.1 |
| IC1102 | 3 | -13.8 | -13.8 | IC7501 | 33 | 3.3 | 3.3 | IC7501 | 94 | 0 | 0 |
| IC1102 | 4 | -17.5 | -17.5 | IC7501 | 34 | 3.3 | 3.3 | IC7501 | 95 | 0 | 0 |
| IC1102 | 5 | -13 | -13 | IC7501 | 35 | 3.3 | 3.3 | IC7501 | 96 | 3.3 | 3.3 |
| IC1102 | 6 | - | - | IC7501 | 36 | 3.3 | 3.3 | IC7501 | 97 | 0 | 0 |
| IC1102 | 7 | - | - | IC7501 | 37 | 0 | 0 | IC7501 | 98 | 0 | 0 |
| IC1102 | 8 | -13 | -13 | IC7501 | 38 | 3 | 3 | IC7501 | 99 | 2.5 | 2.5 |
| IC1103 | 1 | 12.2 | 12.2 | IC7501 | 39 | 0 | 0 | IC7501 | 100 | 0 | 0 |
| IC1103 | 2 | 4.5 | 4.5 | IC7501 | 40 | 3.2 | 3.2 | IC7503 | 1 | 3.3 | 3.3 |
| IC1103 | 3 | 1.2 | 1.2 | IC7501 | 41 | 0 | 0 | IC7503 | 2 | 7.9 | 7.9 |
| IC1103 | 4 | 1.3 | 1.3 | IC7501 | 42 | - | - | IC7503 | 3 | 0 | 0 |
| IC1103 | 5 | 1.4 | 1.4 | IC7501 | 43 | - | - | IC7503 | 4 | - | - |
| IC1103 | 6 | 0 | 0 | IC7501 | 44 | - | - | IC7503 | 5 | - | - |
| IC1103 | 7 | 7.6 | 7.6 | IC7501 | 45 | - | - | IC7504 | 1 | 5.4 | 5.4 |
| IC1103 | 8 | 12.2 | 12.2 | IC7501 | 46 | - | - | IC7504 | 2 | 1.3 | 1.3 |
| IC1104 | 1 | 4.6 | 4.6 | IC7501 | 47 | - | - | IC7504 | 3 | 1.3 | 1.3 |
| IC1104 | 2 | 5.9 | 5.9 | IC7501 | 48 | - | - | IC7504 | 4 | 0 | 0 |
| IC1104 | 3 | 0 | 0 | IC7501 | 49 | - | - | IC7504 | 5 | 0 | 0 |
| IC1104 | 4 | 5 | 5 | IC7501 | 50 | - | - | IC7504 | 6 | - | - |
| IC1104 | 5 | 1.2 | 1.2 | IC7501 | 51 | - | - | IC7504 | 7 | - | - |
| IC1651 | 1 | 3.3 | 3.3 | IC7501 | 52 | - | - | IC7504 | 8 | 12.2 | 12.2 |
| IC1651 | 2 | 0 | 0 | IC7501 | 53 | - | - | IC7512 | 1 | 0 | 0 |
| IC1651 | 3 | 1.3 | 1.3 | IC7501 | 54 | - | - | IC7512 | 2 | 0 | 0 |
| IC1651 | 4 | 3.3 | 3.3 | IC7501 | 55 | - | - | IC7512 | 3 | - | - |
| IC1651 | 5 | 5.9 | 5.9 | IC7501 | 56 | - | - | IC7512 | 4 | 3.3 | 3.3 |
| IC1653 | 1 | 5.9 | 5.9 | IC7501 | 57 | - | - | IC7512 | 5 | 3.3 | 3.3 |
| IC1653 | 2 | 0 | 0 | IC7501 | 58 | - | - | | | | |
| IC1653 | 3 | 1.3 | 1.3 | IC7501 | 59 | - | - | | | | |
| IC1653 | 4 | 4 | 4 | IC7501 | 60 | - | - | | | | |
| IC1653 | 5 | 5.9 | 5.9 | IC7501 | 61 | - | - | | | | |
| IC7501 | 1 | 0.8 | 0.8 | IC7501 | 62 | - | - | | | | |
| IC7501 | 2 | 0 | 0 | IC7501 | 63 | - | - | | | | |
| IC7501 | 3 | 3 | 3 | IC7501 | 64 | - | - | | | | |
| IC7501 | 4 | 3.3 | 3.3 | IC7501 | 65 | - | - | | | | |
| IC7501 | 5 | 3.1 | 3.1 | IC7501 | 66 | - | - | | | | |
| IC7501 | 6 | 3.3 | 3.3 | IC7501 | 67 | 0 | 0 | | | | |
| IC7501 | 7 | 0 | 0 | IC7501 | 68 | - | - | | | | |
| IC7501 | 8 | 3.3 | 3.3 | IC7501 | 69 | 3 | 3 | | | | |
| IC7501 | 9 | 3.3 | 3.3 | IC7501 | 70 | - | - | | | | |
| IC7501 | 10 | 1.8 | 1.8 | IC7501 | 71 | - | - | | | | |
| IC7501 | 11 | 1.6 | 1.6 | IC7501 | 72 | - | - | | | | |
| IC7501 | 12 | 0 | 0 | IC7501 | 73 | - | - | | | | |
| IC7501 | 13 | 1.2 | 1.2 | IC7501 | 74 | - | - | | | | |
| IC7501 | 14 | 1.6 | 1.6 | IC7501 | 75 | 1.6 | 1.6 | | | | |
| IC7501 | 15 | 0 | 0 | IC7501 | 76 | 3.3 | 3.3 | | | | |
| IC7501 | 16 | 3.3 | 3.3 | IC7501 | 77 | 3.3 | 3.3 | | | | |
| IC7501 | 17 | 3.3 | 3.3 | IC7501 | 78 | 3.3 | 3.3 | | | | |
| IC7501 | 18 | 3.3 | 3.3 | IC7501 | 79 | 3.3 | 3.3 | | | | |

S2.3. Front R P.C.B.

| REF No. | PIN No. | PB | STOP | REF No. | PIN No. | PB | STOP | REF No. | PIN No. | PB | STOP |
|---------|---------|-------|-------|---------|---------|-------|-------|---------|---------|----|------|
| P1102 | 1 | 0 | 0 | Q1023 | 4 | 0.1 | 0.1 | T1001 | 13 | - | - |
| P1102 | 2 | 0 | 0 | Q1101 | E | -20.1 | -20.1 | T1001 | 14 | - | - |
| P1102 | 3 | 0 | 0 | Q1101 | C | -24.3 | -24.3 | T1001 | 15 | - | - |
| P1102 | 4 | 0 | 0 | Q1101 | B | -20.8 | -20.8 | T1001 | 16 | - | - |
| P1102 | 5 | 5.9 | 5.9 | Q1102 | 1 | 12.2 | 12.2 | T1001 | 17 | - | - |
| P1102 | 6 | 5.9 | 5.9 | Q1102 | 2 | 12.2 | 12.2 | | | | |
| P1102 | 7 | 12.2 | 12.2 | Q1102 | 3 | 12.2 | 12.2 | | | | |
| P1102 | 8 | 12.2 | 12.2 | Q1102 | 4 | 6.6 | 6.6 | | | | |
| P1102 | 9 | -11.8 | -11.8 | Q1102 | 5 | 12.1 | 12.1 | | | | |
| P7503 | 1 | 3.3 | 3.3 | Q1102 | 6 | 12.1 | 12.1 | | | | |
| P7503 | 2 | 3.3 | 3.3 | Q1102 | 7 | 12.1 | 12.1 | | | | |
| P7503 | 3 | 3.3 | 3.3 | Q1102 | 8 | 12.1 | 12.1 | | | | |
| P7503 | 4 | 3.3 | 3.3 | Q1104 | 1 | 12.2 | 12.2 | | | | |
| P7503 | 5 | 0 | 0 | Q1104 | 2 | 12.2 | 12.2 | | | | |
| P7503 | 6 | 3.3 | 3.3 | Q1104 | 3 | 12.2 | 12.2 | | | | |
| P7503 | 7 | 0 | 0 | Q1104 | 4 | 7.6 | 7.6 | | | | |
| P7503 | 8 | 3.3 | 3.3 | Q1104 | 5 | 5.9 | 5.9 | | | | |
| P7503 | 9 | 3.3 | 3.3 | Q1104 | 6 | 5.9 | 5.9 | | | | |
| P7503 | 10 | 3.3 | 3.3 | Q1104 | 7 | 5.9 | 5.9 | | | | |
| P7503 | 11 | 3.3 | 3.3 | Q1104 | 8 | 5.9 | 5.9 | | | | |
| P7503 | 12 | 0 | 0 | Q1106 | E | -12 | -12 | | | | |
| P7503 | 13 | 0 | 0 | Q1106 | C | -14.7 | -14.7 | | | | |
| P7503 | 14 | 0 | 0 | Q1106 | B | -12.6 | -12.6 | | | | |
| P7503 | 15 | - | - | Q1107 | E | 0 | 0 | | | | |
| P7503 | 16 | 0.1 | 0.1 | Q1107 | C | 0 | 0 | | | | |
| P7503 | 17 | 0 | 0 | Q1107 | B | 0.7 | 0.7 | | | | |
| P7503 | 18 | 3.3 | 3.3 | Q1651 | E | 0 | 0 | | | | |
| P7503 | 19 | 0 | 0 | Q1651 | C | 3.2 | 3.2 | | | | |
| P7503 | 20 | 3.3 | 3.3 | Q1651 | B | 0.1 | 0.1 | | | | |
| P7503 | 21 | 0 | 0 | Q7506 | E | -15.1 | -15.1 | | | | |
| P7503 | 22 | 0 | 0 | Q7506 | C | -15.1 | -15.1 | | | | |
| P7503 | 23 | 0 | 0 | Q7506 | B | -14.4 | -14.4 | | | | |
| P7504 | 1 | 3.3 | 3.3 | Q7509 | E | 5 | 5 | | | | |
| P7504 | 2 | 3.1 | 3.1 | Q7509 | C | 12.2 | 12.2 | | | | |
| P7504 | 3 | 3.3 | 3.3 | Q7509 | B | 5.3 | 5.3 | | | | |
| P7504 | 4 | 0 | 0 | QR1101 | E | 0 | 0 | | | | |
| P7504 | 5 | 0 | 0 | QR1101 | C | 0 | 0 | | | | |
| P7504 | 6 | 3.2 | 3.2 | QR1101 | B | 0 | 0 | | | | |
| P7504 | 7 | 3.1 | 3.1 | QR1102 | E | 0 | 0 | | | | |
| P7504 | 8 | 3.3 | 3.3 | QR1102 | C | 0 | 0 | | | | |
| P7504 | 9 | 3.3 | 3.3 | QR1102 | B | 4.6 | 4.6 | | | | |
| P7504 | 10 | 0 | 0 | QR1105 | E | 0 | 0 | | | | |
| P7504 | 11 | 3.3 | 3.3 | QR1105 | C | 0 | 0 | | | | |
| P7504 | 12 | 3.4 | 3.4 | QR1105 | B | 3.2 | 3.2 | | | | |
| P7504 | 13 | 3.1 | 3.1 | QR1651 | E | 0 | 0 | | | | |
| P7504 | 14 | 3.3 | 3.3 | QR1651 | C | 0.1 | 0.1 | | | | |
| P7504 | 15 | 3.3 | 3.3 | QR1651 | B | 3.3 | 3.3 | | | | |
| P7504 | 16 | 3.3 | 3.3 | QR1652 | E | 3.3 | 3.3 | | | | |
| P7504 | 17 | 0 | 0 | QR1652 | C | 3.2 | 3.2 | | | | |
| P7504 | 18 | 6.3 | 6.3 | QR1652 | B | 0.1 | 0.1 | | | | |
| P7504 | 19 | 0 | 0 | QR7502 | E | 3.3 | 3.3 | | | | |
| P7504 | 20 | 0 | 0 | QR7502 | C | 3.2 | 3.2 | | | | |
| P7504 | 21 | 0 | 0 | QR7502 | B | 0 | 0 | | | | |
| P7504 | 22 | 0 | 0 | T1001 | 1 | - | - | | | | |
| P7504 | 23 | 0 | 0 | T1001 | 2 | - | - | | | | |
| Q1021 | E | 0 | 0 | T1001 | 3 | - | - | | | | |
| Q1021 | C | 6.9 | 6.9 | T1001 | 4 | - | - | | | | |
| Q1021 | B | 0.1 | 0.1 | T1001 | 5 | - | - | | | | |
| Q1022 | 1 | 9.2 | 9.2 | T1001 | 6 | 0 | 0 | | | | |
| Q1022 | 2 | 8.1 | 8.1 | T1001 | 7 | - | - | | | | |
| Q1022 | 3 | 0 | 0 | T1001 | 8 | - | - | | | | |
| Q1022 | 4 | 1.7 | 1.7 | T1001 | 9 | 0 | 0 | | | | |
| Q1023 | 1 | 1.1 | 1.1 | T1001 | 10 | 0 | 0 | | | | |
| Q1023 | 2 | 0 | 0 | T1001 | 11 | - | - | | | | |
| Q1023 | 3 | 0 | 0 | T1001 | 12 | - | - | | | | |

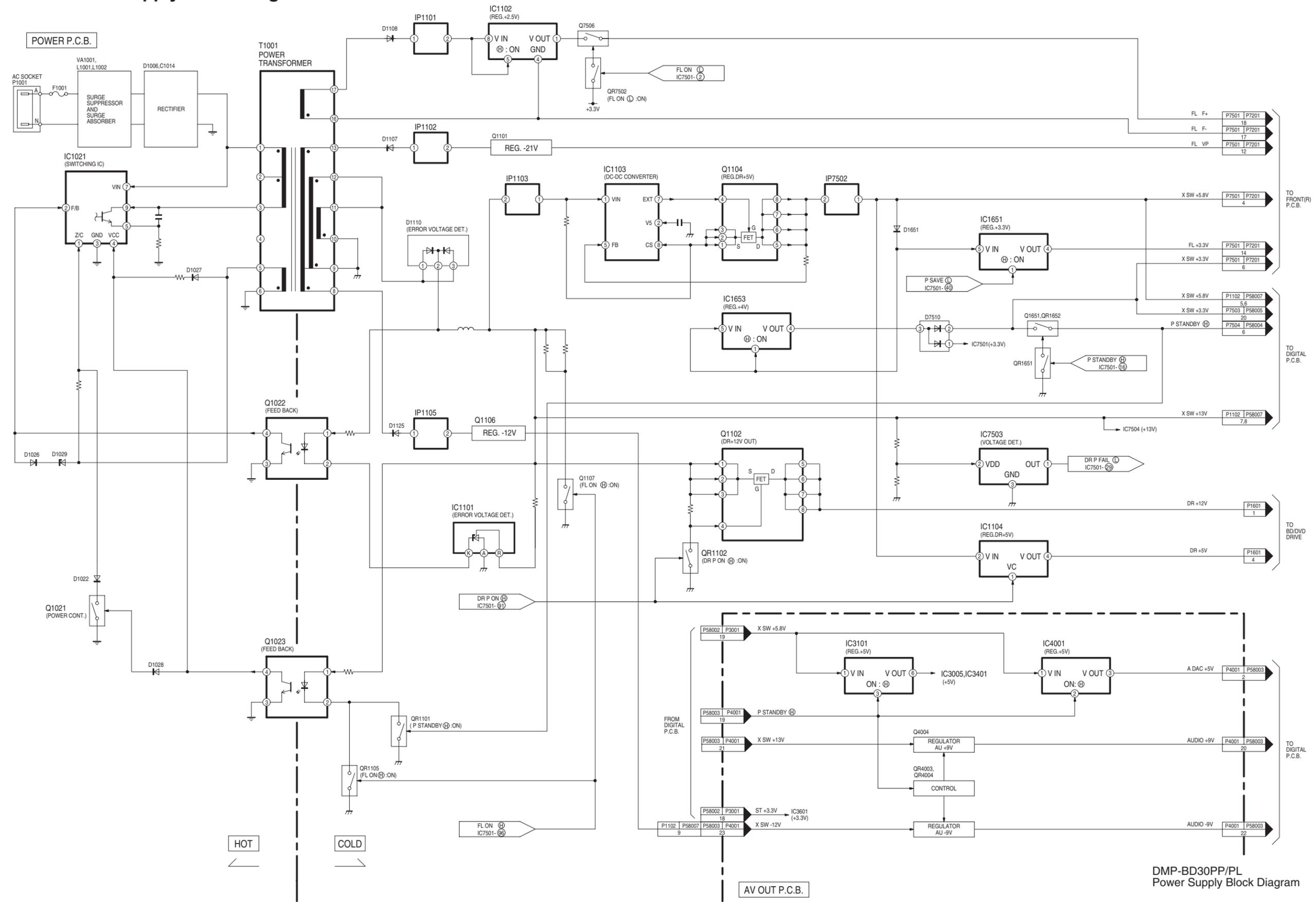
<T1001>



| REF No. | PIN No. | PB | STOP |
|---------|---------|-------|-------|
| IC7201 | 1 | 3.2 | 3.2 |
| IC7201 | 2 | - | - |
| IC7201 | 3 | - | - |
| IC7201 | 4 | - | - |
| IC7201 | 5 | 1.9 | 1.9 |
| IC7201 | 6 | 3.2 | 3.2 |
| IC7201 | 7 | 3.2 | 3.2 |
| IC7201 | 8 | 3.2 | 3.2 |
| IC7201 | 9 | 3.2 | 3.2 |
| IC7201 | 10 | 0 | 0 |
| IC7201 | 11 | 0 | 0 |
| IC7201 | 12 | 0 | 0 |
| IC7201 | 13 | 3.3 | 3.3 |
| IC7201 | 14 | -19.1 | -19.1 |
| IC7201 | 15 | -19.1 | -19.1 |
| IC7201 | 16 | -15.6 | -15.6 |
| IC7201 | 17 | -19.1 | -19.1 |
| IC7201 | 18 | -19.1 | -19.1 |
| IC7201 | 19 | -19.1 | -19.1 |
| IC7201 | 20 | -15.6 | -15.6 |
| IC7201 | 21 | -18.3 | -18.3 |
| IC7201 | 22 | -15.6 | -15.6 |
| IC7201 | 23 | -12.9 | -12.9 |
| IC7201 | 24 | -15.6 | -15.6 |
| IC7201 | 25 | -18.3 | -18.3 |
| IC7201 | 26 | -18.3 | -18.3 |
| IC7201 | 27 | -19.1 | -19.1 |
| IC7201 | 28 | -19.1 | -19.1 |
| IC7201 | 29 | -18.3 | -18.3 |
| IC7201 | 30 | -20.1 | -20.1 |
| IC7201 | 31 | - | - |
| IC7201 | 32 | - | - |
| IC7201 | 33 | - | - |
| IC7201 | 34 | - | - |
| IC7201 | 35 | - | - |
| IC7201 | 36 | -18 | -18 |
| IC7201 | 37 | -18 | -18 |
| IC7201 | 38 | -18 | -18 |
| IC7201 | 39 | -18 | -18 |
| IC7201 | 40 | -18 | -18 |
| IC7201 | 41 | -18.1 | -18.1 |
| IC7201 | 42 | -18.1 | -18.1 |
| IC7201 | 43 | 3.3 | 3.3 |
| IC7201 | 44 | 0 | 0 |
| Q7201 | E | 0 | 0 |
| Q7201 | C | 0 | 0 |
| Q7201 | B | 0.7 | 0.7 |

S3. Block Diagram

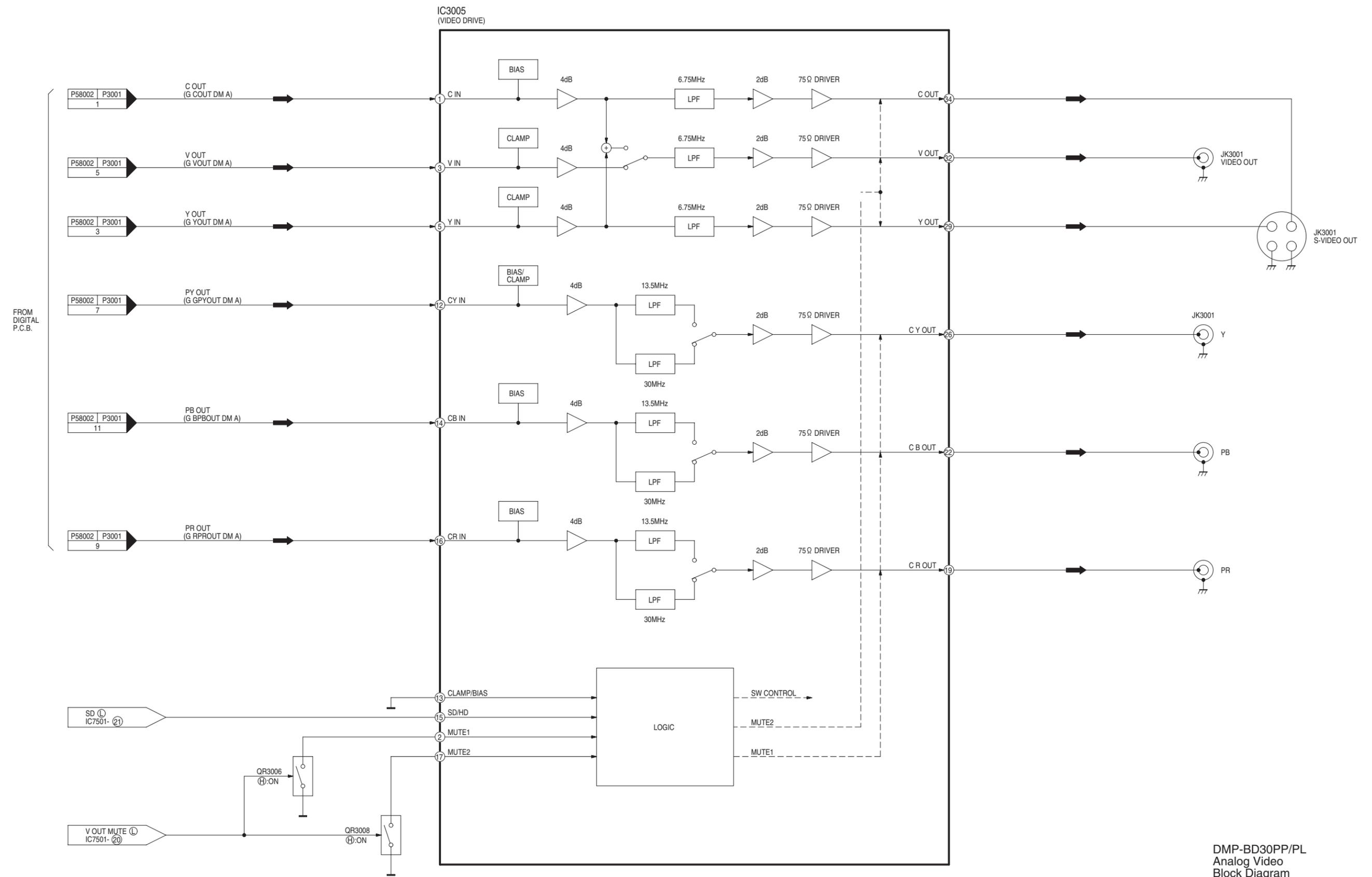
S3.1. Power Supply Block Diagram



DMP-BD30PP/PL
Power Supply Block Diagram

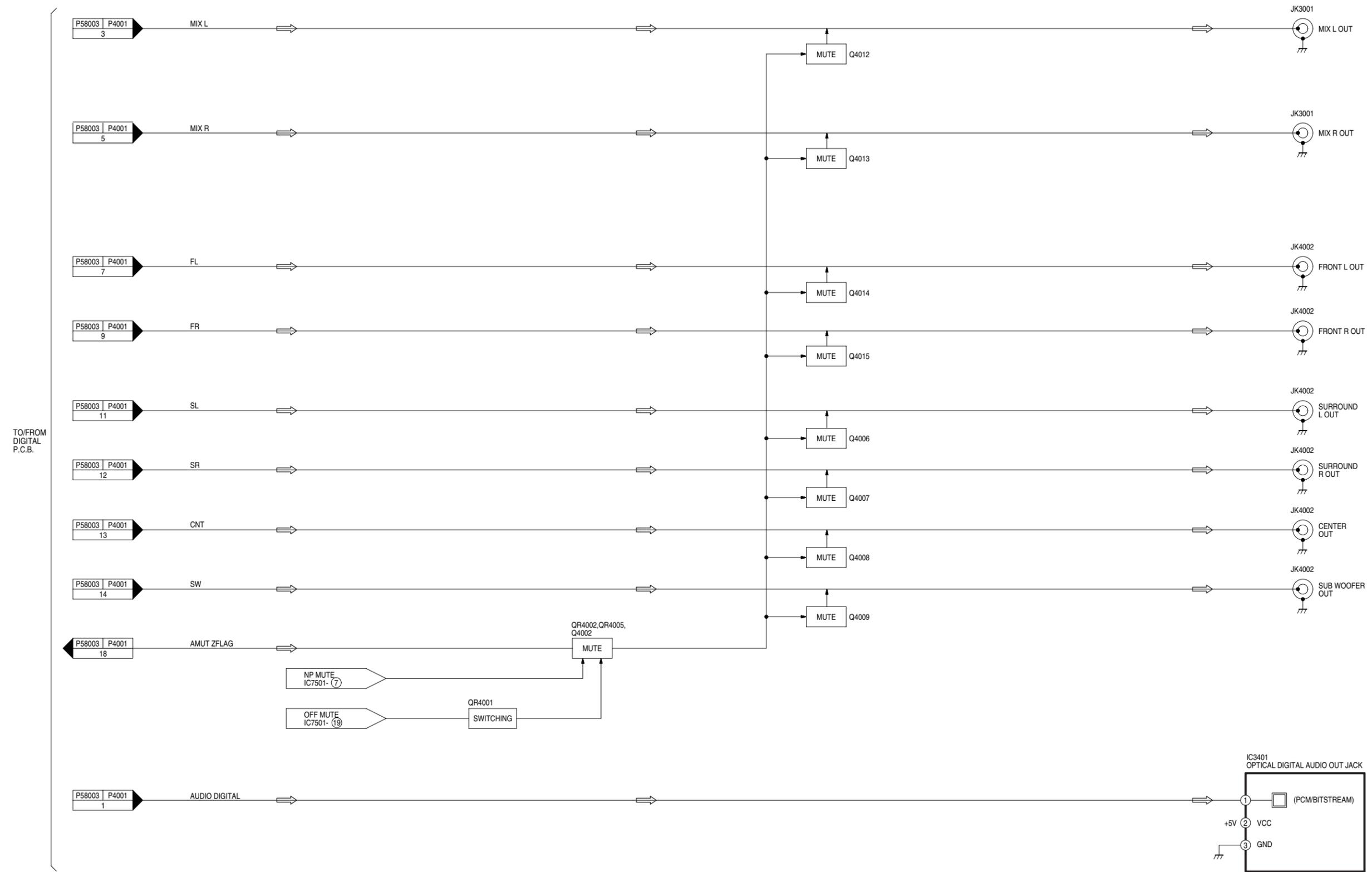
S3.2. Analog Video Block Diagram

← VIDEO MAIN SIGNAL



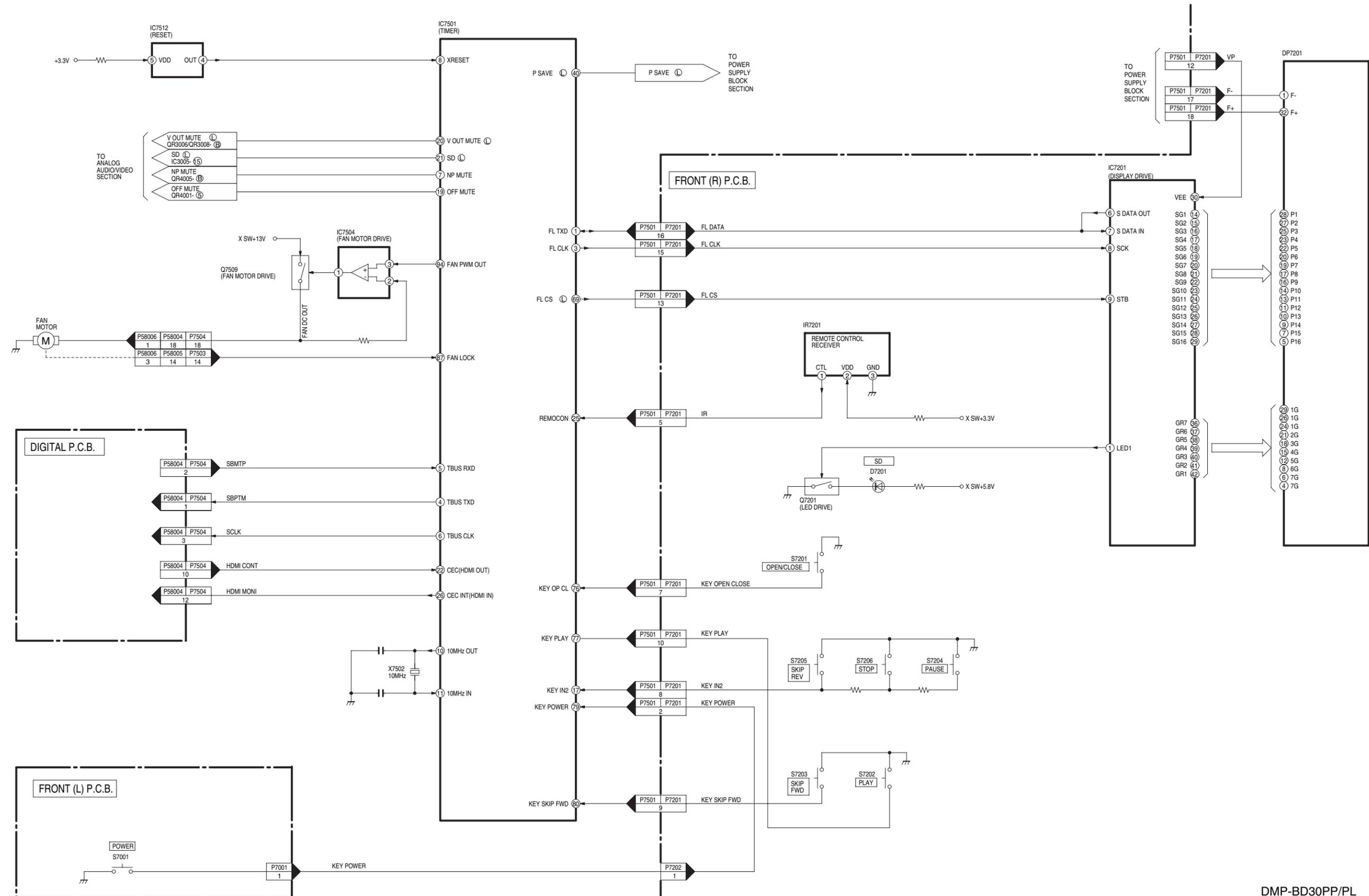
DMP-BD30PP/PL
Analog Video
Block Diagram

S3.3. Analog Audio Block Diagram



DMP-BD30PP/PL
Analog Audio
Block Diagram

S3.4. Timer Block Diagram



DMP-BD30PP/PL
Timer
Block Diagram

S4. Schematic Diagram

S4.1. Interconnection Diagram

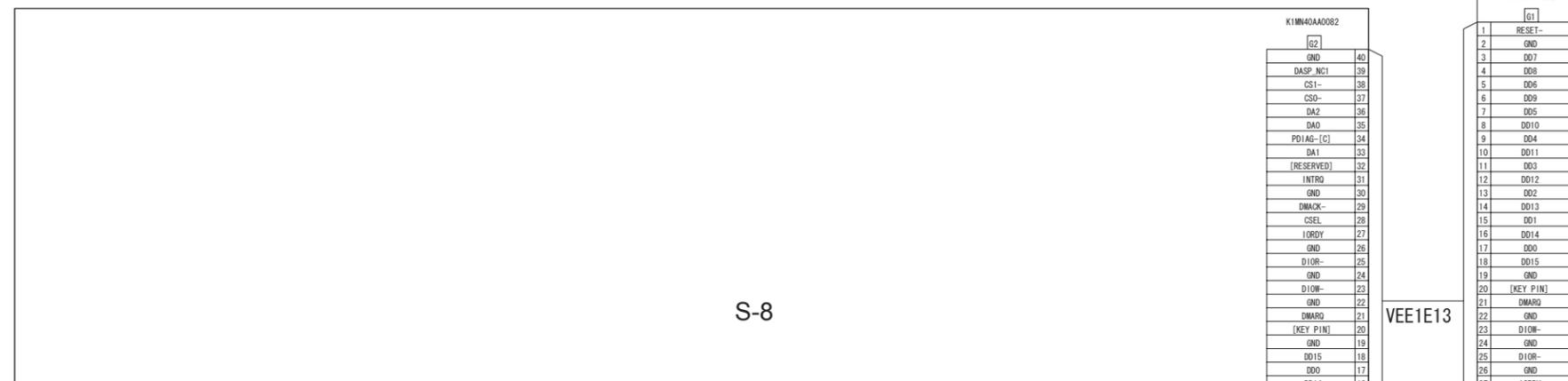
1/4

DMP-BD30PP/PL
Interconnection Diagram

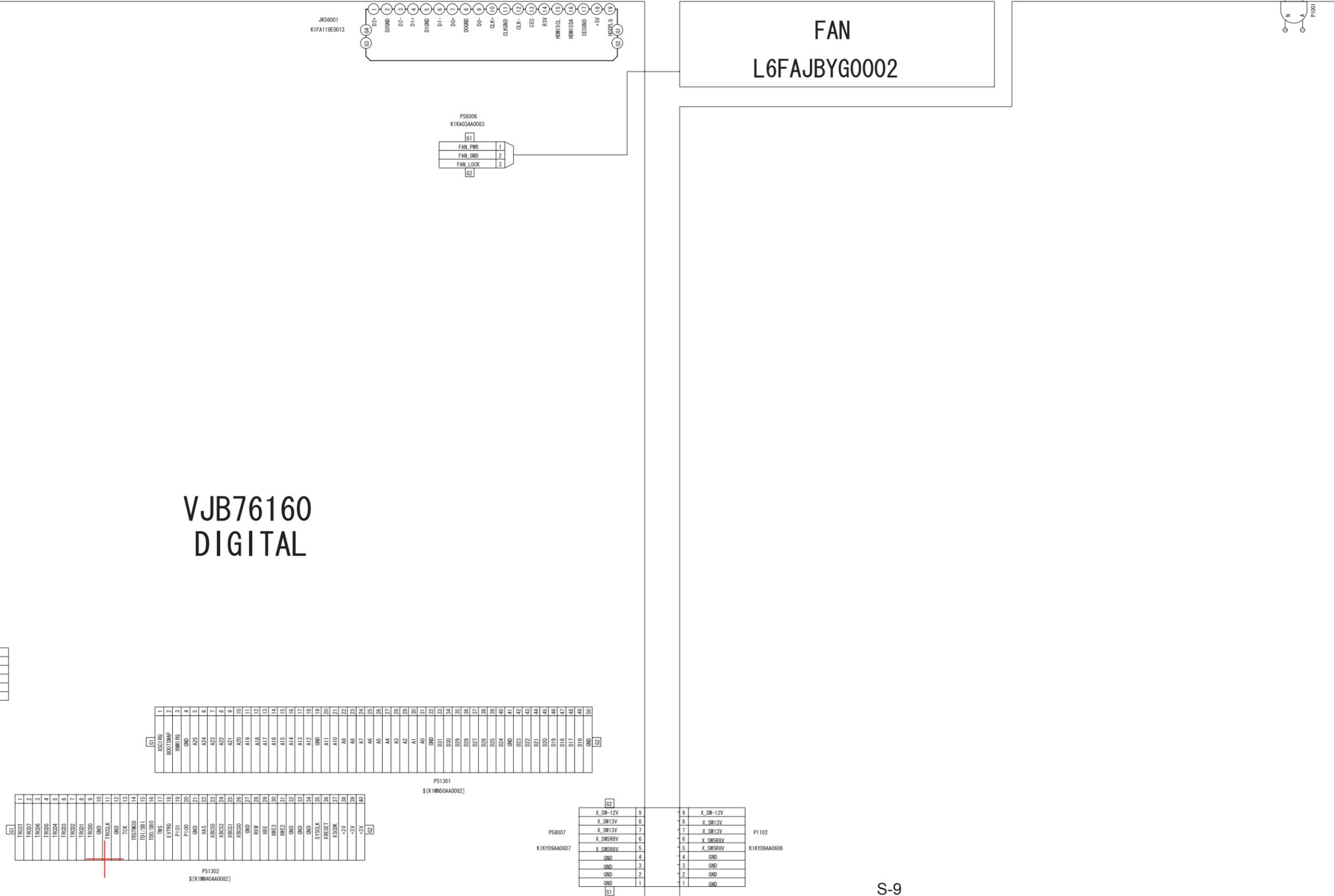
N
M
L
K
J
I
H
G



VJB73152
AV MAIN



VJB7
DIG



VJB76162 BD3PPV1

DRIVE

VJB76165
FRONT L

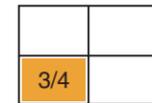
| | |
|----------------------|-------------|
| P7001 K1KA03A0301 | |
| 1 | KEY_POWER |
| 2 | LED_STANDBY |
| 3 | GND |

VEE1E02 (PP) / VEE1E12 (EG)

| | |
|----------------------|-------------|
| P7202 K1KA03A0301 | |
| 1 | KEY_POWER |
| 2 | LED_STANDBY |
| 3 | GND |

VJB76166
FRONT R

| | |
|-----------------------|-------------|
| P7201 K1KA18800034 | |
| 1 | KEY_POWER |
| 2 | LED_STANDBY |
| 3 | GND |



DMP-BD30PP/PL
Interconnection Diagram

| | |
|--------|---|
| DR_5V | 4 |
| DR_GND | 3 |
| DR_GND | 2 |
| DR_12V | 1 |

K1KA04A0301
P201

VWJ2010

| | |
|---|--------|
| 4 | DR_5V |
| 3 | DR_GND |
| 2 | DR_GND |
| 1 | DR_12V |

K1KA04A0301
P1601

P7501
K1KB18800017

| | |
|----|----------------|
| 1 | GND |
| 2 | KEY_POWER |
| 3 | GND |
| 4 | X_SWBREV |
| 5 | IR |
| 6 | X_SWREV |
| 7 | KEY_OPEN_CLOSE |
| 8 | KEY_IN2 |
| 9 | KEY_SKIP_FWD |
| 10 | KEY_PLAY |
| 11 | LED_STANDBY |
| 12 | FL_VP |
| 13 | FL_CS |
| 14 | FL_SERV |
| 15 | FL_CLK |
| 16 | FL_LD |
| 17 | FL_F- |
| 18 | FL_F+ |

| | |
|----------------------|---------|
| P7502 K1KA06A0188 | |
| 1 | SW_UART |
| 2 | XRESET |
| 3 | MAX_RD |
| 4 | GND |
| 5 | 3REV |
| 6 | MAX_TD |

K1KY23A0606

| | |
|----------------------|-----------|
| P7503 K1KY23A0607 | |
| 1 | WP |
| 2 | CD |
| 3 | DAT1 |
| 4 | DAT0 |
| 5 | CLK |
| 6 | SW13REV |
| 7 | DND |
| 8 | GND |
| 9 | DAT3 |
| 10 | DAT2 |
| 11 | 3PHE |
| 12 | PKS_STATE |
| 13 | FLD |
| 14 | FLD |
| 15 | 3PBOOT |
| 16 | 3PBOOT |
| 17 | DND |
| 18 | XPKREV |
| 19 | DND |
| 20 | X_SWREV |
| 21 | RBB_H |
| 22 | YC_H |
| 23 | WIDE_H |

| | |
|------------|----|
| DA1 | 33 |
| [RESERVED] | 32 |
| INTRQ | 31 |
| GND | 30 |
| DMACK- | 29 |
| CSEL | 28 |
| IORDY | 27 |
| GND | 26 |
| DIOR- | 25 |
| GND | 24 |
| DIOH- | 23 |
| GND | 22 |
| DMARQ | 21 |
| [KEY PIN] | 20 |
| GND | 19 |
| DD15 | 18 |
| DD0 | 17 |
| DD14 | 16 |
| DD1 | 15 |
| DD3 | 14 |
| DD12 | 13 |
| DD2 | 12 |
| DD13 | 11 |
| DD11 | 10 |
| DD4 | 9 |
| DD10 | 8 |
| DD5 | 7 |
| DD6 | 6 |
| DD8 | 5 |
| DD7 | 4 |
| GND | 3 |
| RESET- | 2 |
| [G1] | 1 |

VEE1E13

| | |
|------------|----|
| DD1 | 10 |
| DD3 | 11 |
| DD12 | 12 |
| DD2 | 13 |
| DD13 | 14 |
| DD1 | 15 |
| DD0 | 16 |
| DD14 | 17 |
| GND | 18 |
| DD15 | 19 |
| GND | 20 |
| [KEY PIN] | 21 |
| DMARQ | 22 |
| DIOH- | 23 |
| GND | 24 |
| DIOR- | 25 |
| GND | 26 |
| IORDY | 27 |
| CSEL | 28 |
| DMACK- | 29 |
| GND | 30 |
| INTRQ | 31 |
| [RESERVED] | 32 |
| DA1 | 33 |
| PDIAG-(C) | 34 |
| DAD | 35 |
| DA2 | 36 |
| CSO- | 37 |
| CSI- | 38 |
| DASP_MC1 | 39 |
| GND | 40 |
| [G2] | |

| | |
|---------|----|
| TRDST | 1 |
| TRD7 | 2 |
| TRD6 | 3 |
| TRD5 | 4 |
| TRD4 | 5 |
| TRD3 | 6 |
| TRD2 | 7 |
| TRD1 | 8 |
| GND | 9 |
| TRD0 | 10 |
| TRD0K | 11 |
| TICK | 12 |
| TRD1WD | 13 |
| TD1/SD1 | 14 |
| TD0/SD0 | 15 |
| TRD | 16 |
| ENTIRE | 17 |
| P101 | 18 |
| P100 | 19 |
| GND | 20 |
| 7AS | 21 |
| RES55 | 22 |
| RES52 | 23 |
| RES51 | 24 |
| RES50 | 25 |
| RES49 | 26 |



| | |
|----|-------|
| 1 | RES17 |
| 2 | RES17 |
| 3 | RES17 |
| 4 | RES17 |
| 5 | RES17 |
| 6 | RES17 |
| 7 | RES17 |
| 8 | RES17 |
| 9 | RES17 |
| 10 | RES17 |
| 11 | RES17 |
| 12 | RES17 |
| 13 | RES17 |
| 14 | RES17 |
| 15 | RES17 |
| 16 | RES17 |
| 17 | RES17 |
| 18 | RES17 |
| 19 | RES17 |
| 20 | RES17 |
| 21 | RES17 |
| 22 | RES17 |
| 23 | RES17 |
| 24 | RES17 |
| 25 | RES17 |
| 26 | RES17 |
| 27 | RES17 |
| 28 | RES17 |
| 29 | RES17 |
| 30 | RES17 |
| 31 | RES17 |
| 32 | RES17 |
| 33 | RES17 |
| 34 | RES17 |
| 35 | RES17 |
| 36 | RES17 |
| 37 | RES17 |
| 38 | RES17 |
| 39 | RES17 |
| 40 | RES17 |

P51302
\$[K1M40A00082]

\$[K1M50A00082]

| | |
|---|----------|
| 9 | X_SW-12V |
| 8 | X_SW13V |
| 7 | X_SW13V |
| 6 | X_SW88V |
| 5 | X_SW88V |
| 4 | GND |
| 3 | GND |
| 2 | GND |
| 1 | GND |

P1102
K1KY09AA0606

| | |
|----|--------|
| 5 | CLK |
| 6 | SW138V |
| 7 | DAND |
| 8 | DAND |
| 9 | DAND |
| 10 | DAND |
| 11 | DAND |
| 12 | DAND |
| 13 | DAND |
| 14 | DAND |
| 15 | DAND |
| 16 | DAND |
| 17 | DAND |
| 18 | DAND |
| 19 | DAND |
| 20 | DAND |
| 21 | DAND |
| 22 | DAND |
| 23 | DAND |

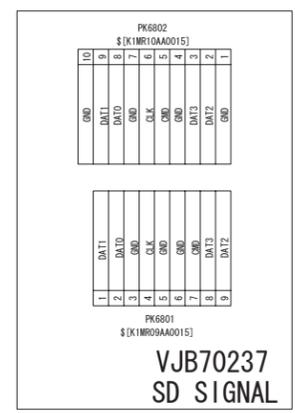
P58004
K1KY23AA0607

| | |
|----|------|
| 1 | SP1M |
| 2 | SP1M |
| 3 | SP1M |
| 4 | SP1M |
| 5 | SP1M |
| 6 | SP1M |
| 7 | SP1M |
| 8 | SP1M |
| 9 | SP1M |
| 10 | SP1M |
| 11 | SP1M |
| 12 | SP1M |
| 13 | SP1M |
| 14 | SP1M |
| 15 | SP1M |
| 16 | SP1M |
| 17 | SP1M |
| 18 | SP1M |
| 19 | SP1M |
| 20 | SP1M |
| 21 | SP1M |
| 22 | SP1M |
| 23 | SP1M |

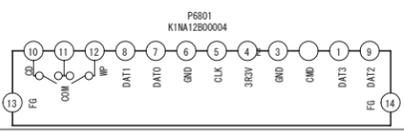
P7504
K1KY23AA0606

P7502
\$[K1KA06A0188]

| | |
|---|---------|
| 1 | SW_UART |
| 2 | XRESET |
| 3 | MAX_RD |
| 4 | GND |
| 5 | 3R3V |
| 6 | MAX_TD |

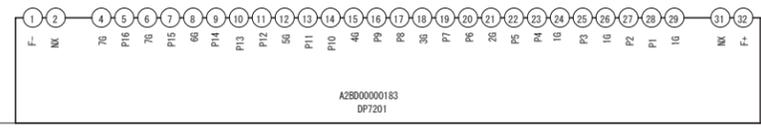


VJB71126/71131 POWER



| | |
|----|-------------|
| 9 | KEY_SLP_FND |
| 10 | KEY_PLAY |
| 11 | LED_STANDBY |
| 12 | FL_VP |
| 13 | FL_US |
| 14 | FL_US |
| 15 | FL_US |
| 16 | FL_US |
| 17 | FL_US |
| 18 | FL_US |

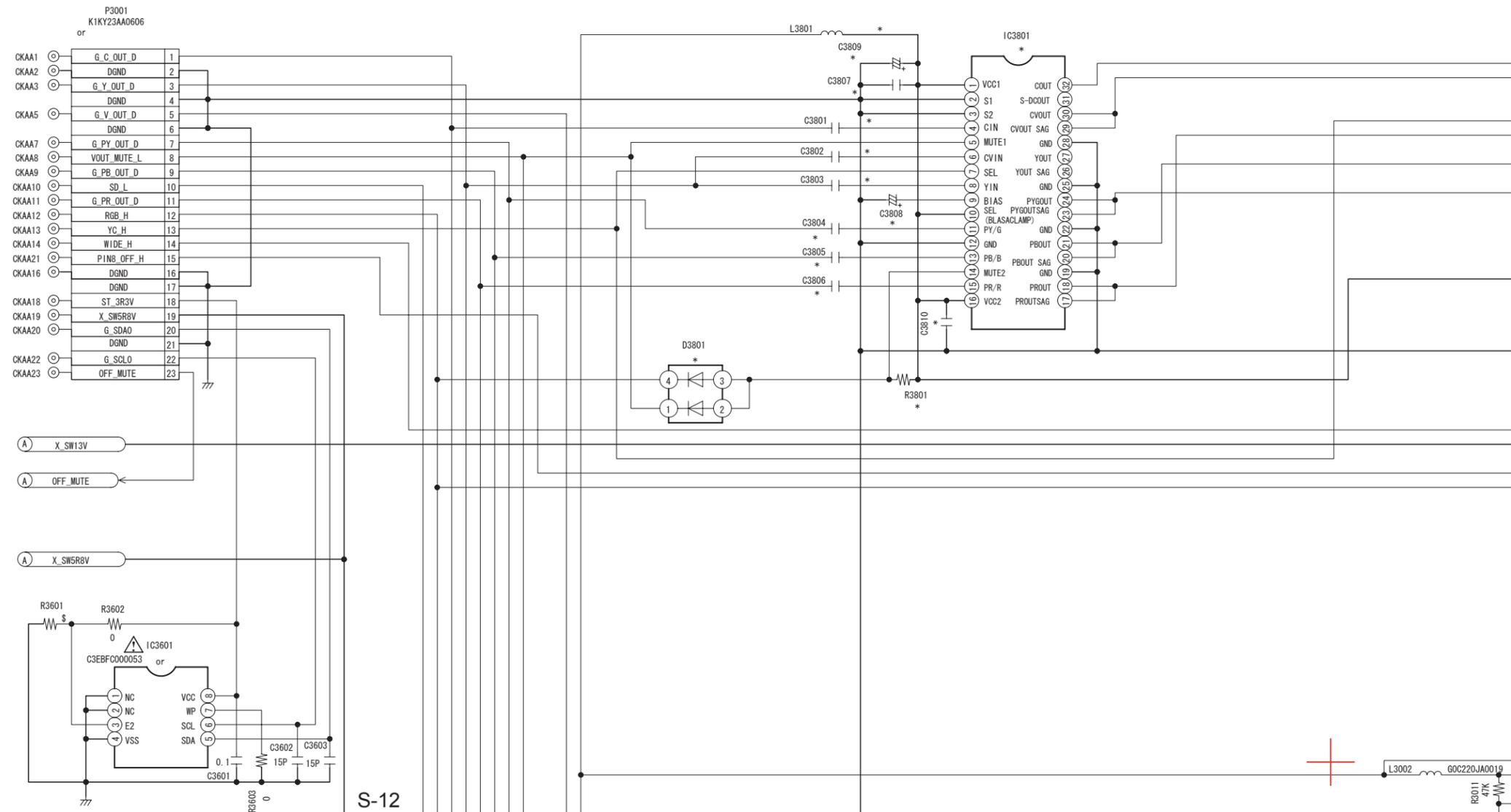
VJB76166
FRONT R

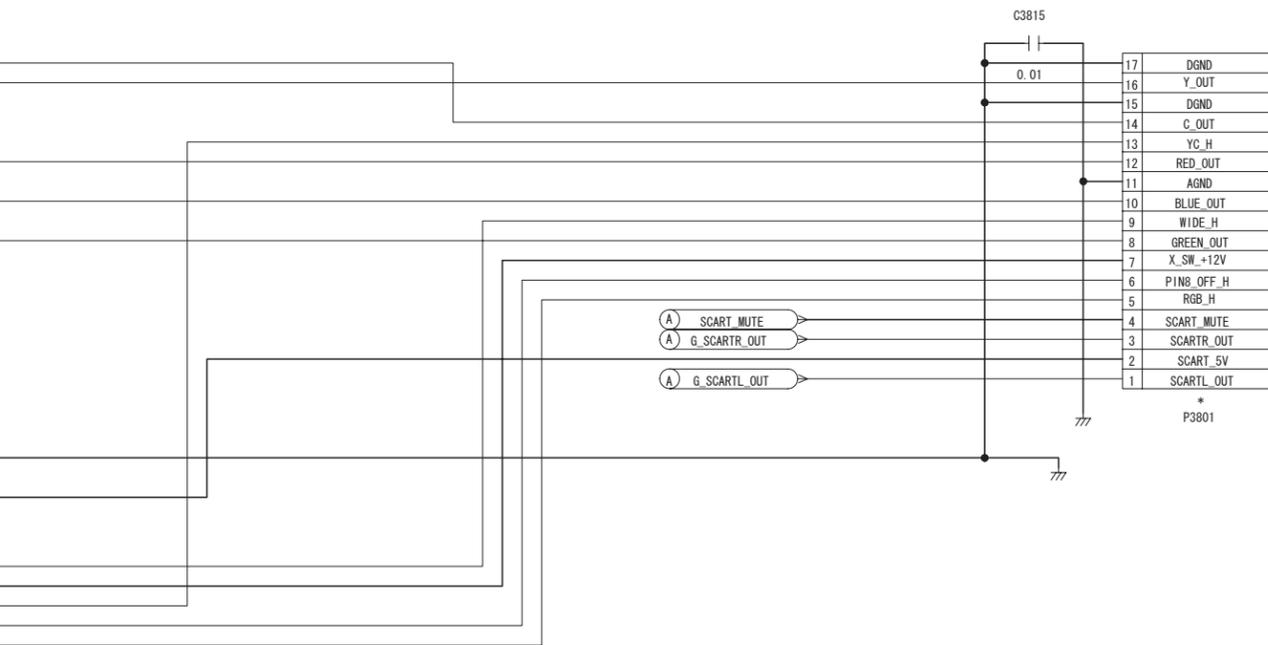


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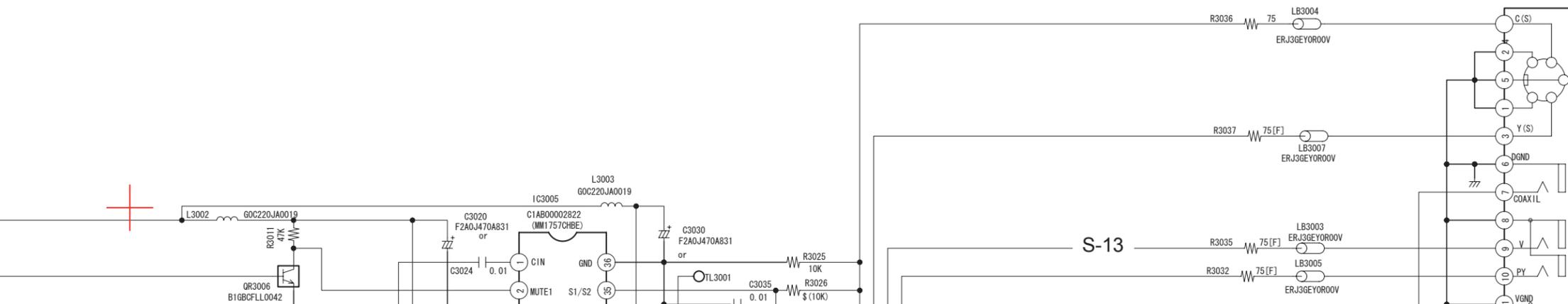
S4.2. Video_Out (V) Schematic Diagram

1/4 DMP-BD30PP/PL
Video_Out Section
(AV Main P.C.B. (1/2))
Schematic Diagram (V)





| VariationCategory1 | DMP-BD30PP/PL | DMP-BD30E6/EE/GN/GCS |
|--------------------|---------------|----------------------|
| C3801 | \$ | \$ |
| C3802 | \$ | \$ |
| C3803 | \$ | \$ |
| C3804 | \$ | \$ |
| C3805 | \$ | \$ |
| C3806 | \$ | \$ |
| C3807 | \$ | \$ |
| C3808 | \$ | \$ |
| C3809 | \$ | \$ |
| C3810 | \$ | \$ |
| D3002 | VWJ0795-5 | VWJ0795-5 |
| D3801 | \$ | \$ |
| IC3401 | B3ZAZ0000016 | B3ZAZ0000017 |
| IC3801 | \$ | \$ |
| L3801 | \$ | \$ |
| P3801 | \$ | \$ |
| QR3007 | \$ | \$ |
| R3012 | \$ | \$ |
| R3801 | \$ | \$ |



JK3001
K2H4616R0009
-806Y-14 MI FE RF LF (P8)





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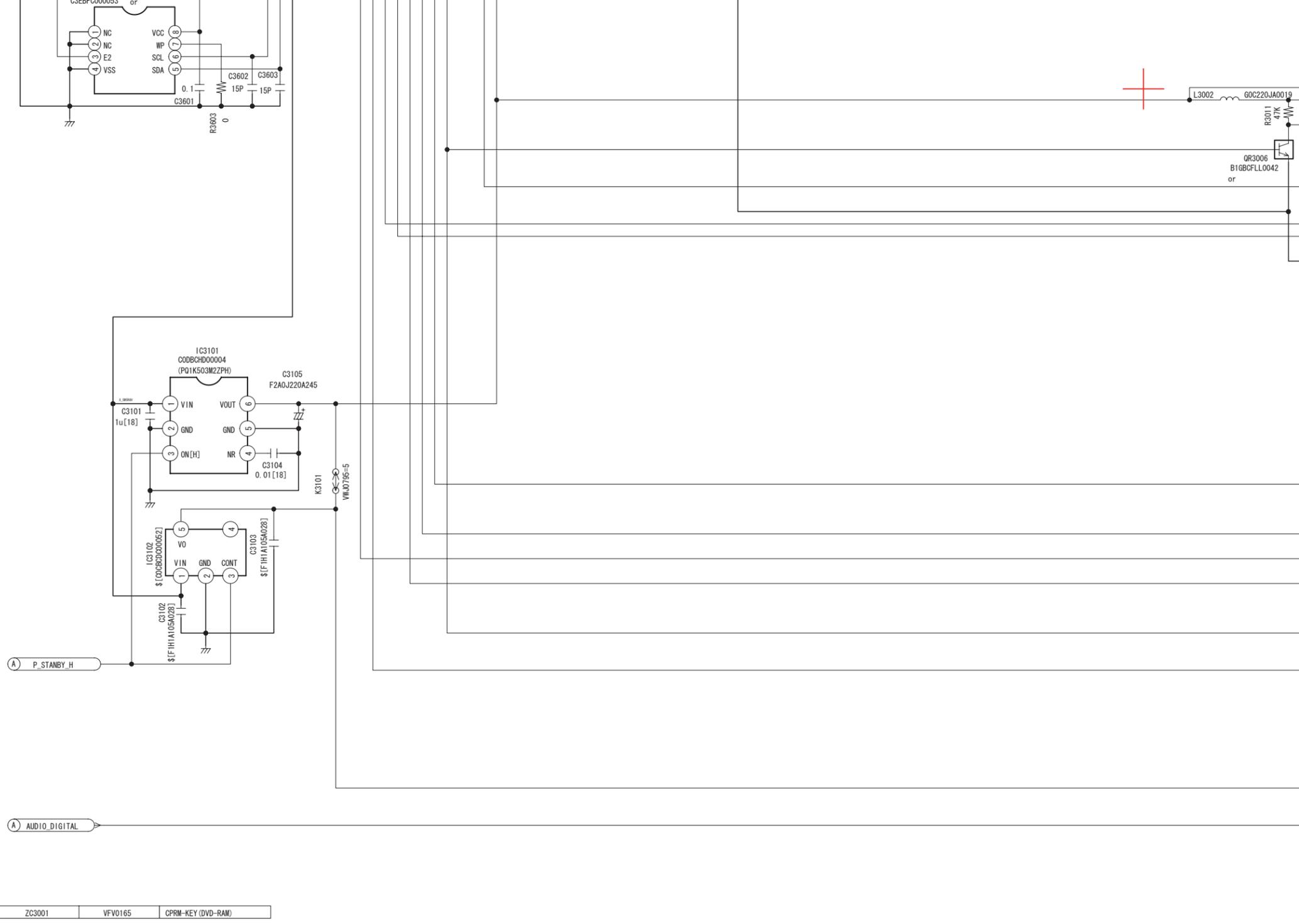
8

9

10

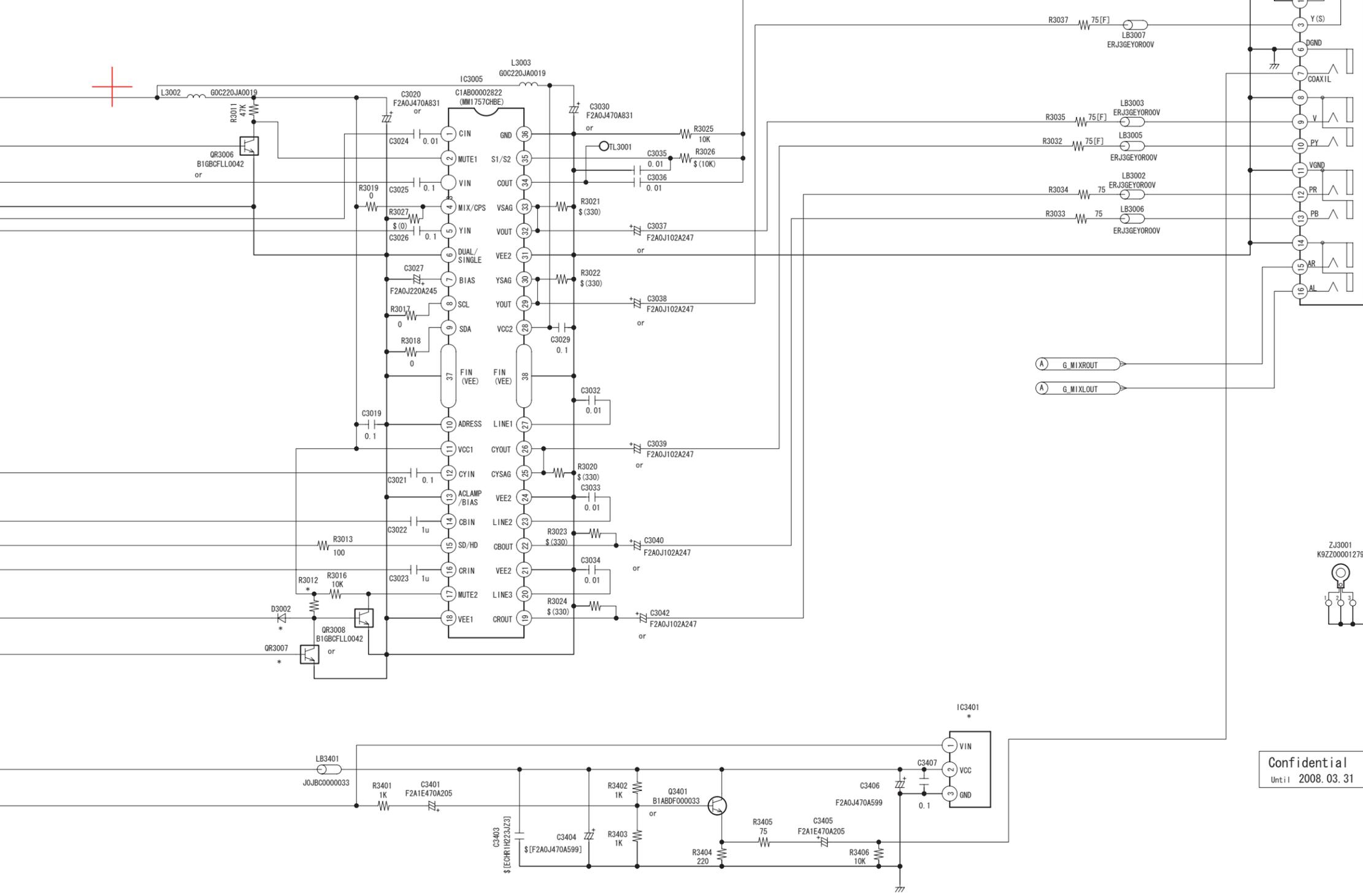
11

12



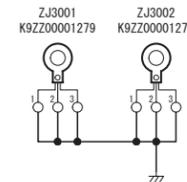
| | | |
|-----|--|---|
| | | DMP-BD30PP/PL Video_Out Section (AV Main P.C.B. (1/2)) Schematic Diagram (V) |
| 3/4 | | |





AK3001
K2H4816R0009
(MSP-806V-1.4 NI FE RF LF (PB))

A G MIXROUT
A G MIXLOUT



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Until 2008.03.31

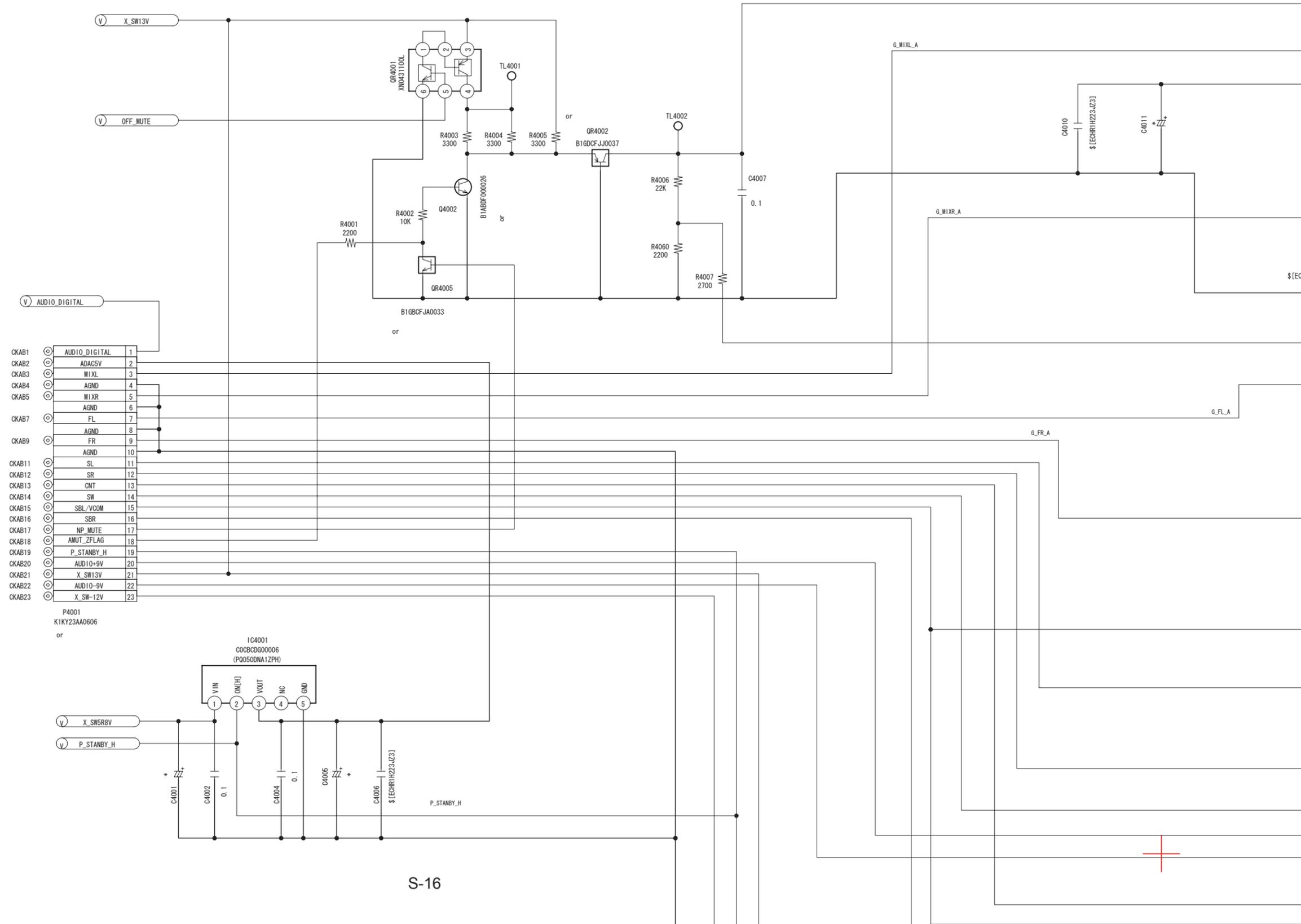
[PP]

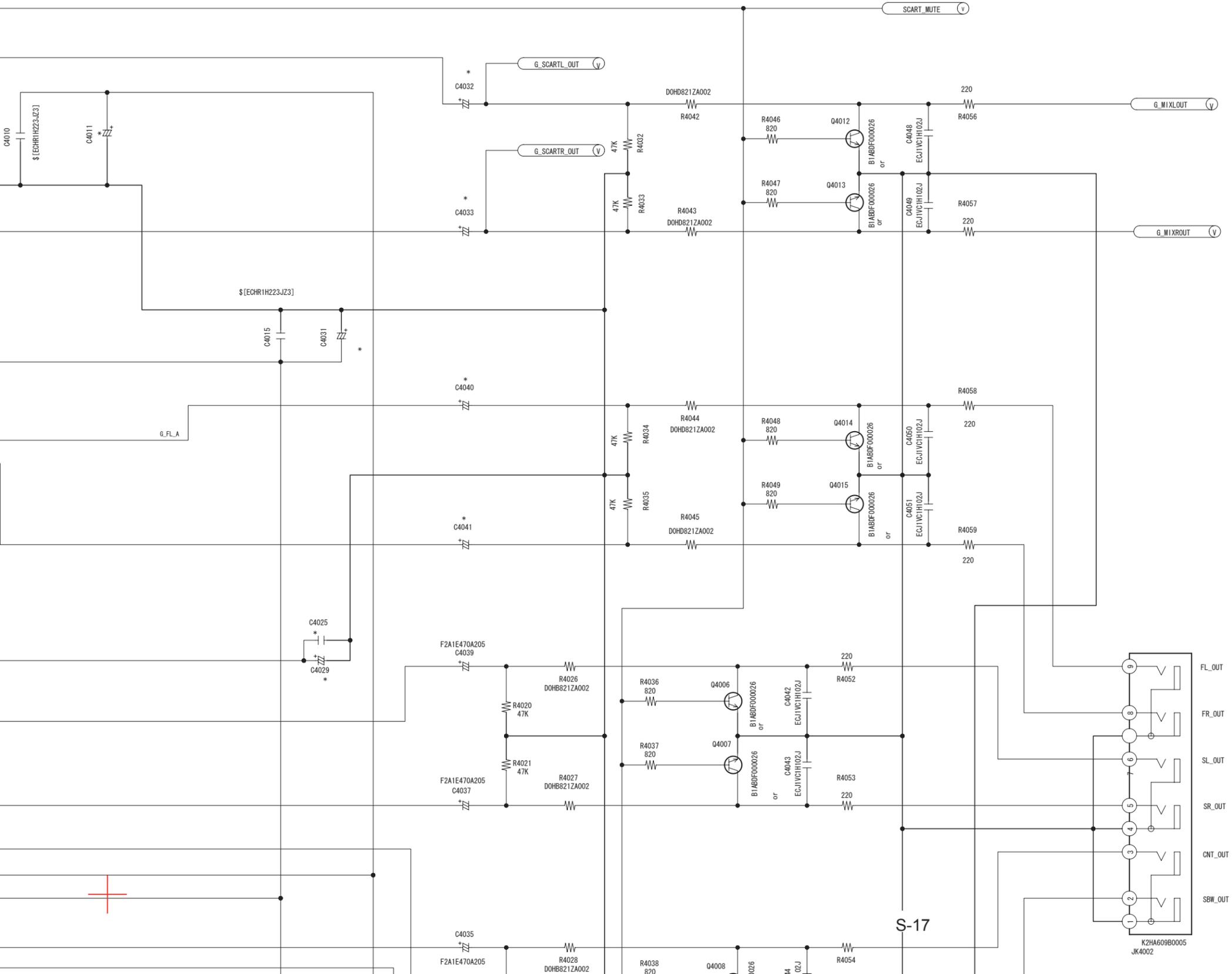
DMP-BD30PP/PL
Video_Out Section
(AV Main P.C.B. (1/2))
Schematic Diagram (V)

4/4

S4.3. Audio_Main (A) Schematic Diagram

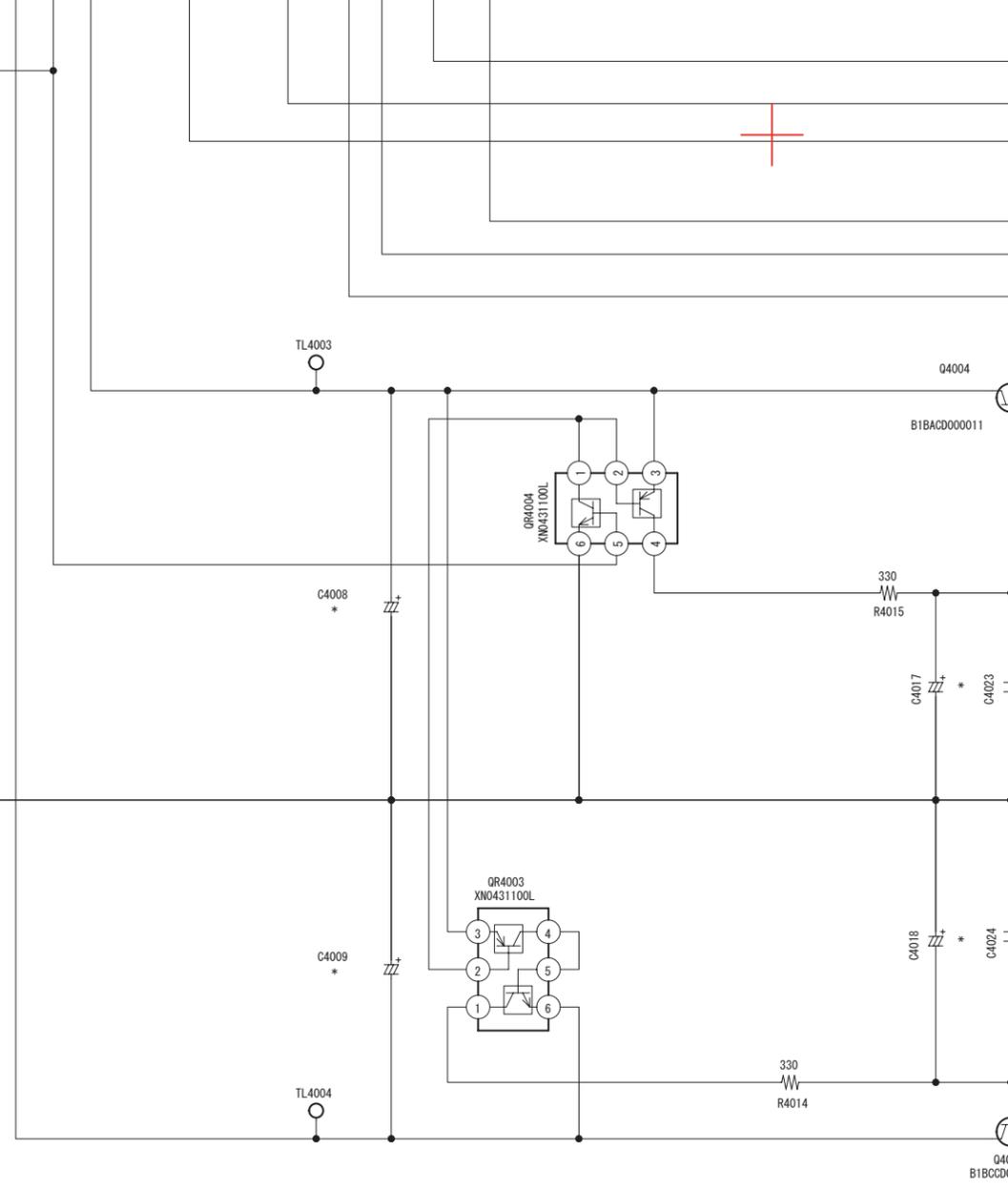
1/4 DMP-BD30PP/PL
Audio_Main Section
(AV Main P.C.B. (2/2))
Schematic Diagram (A)





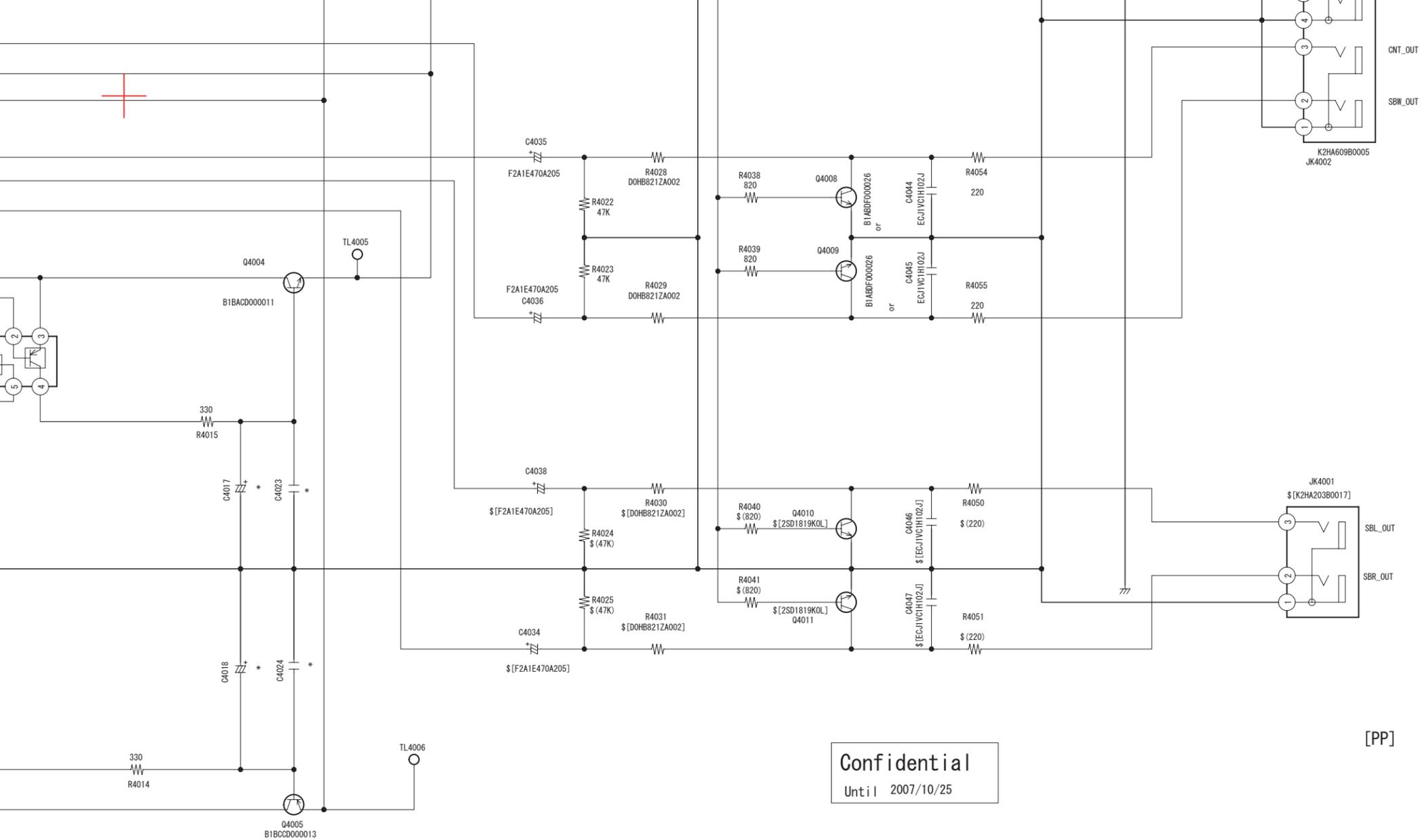
H
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| VariationCategory | DMP-BD30PP/PL | DMP-BD30EG/EE/GN/GCS |
|-------------------|------------------|----------------------|
| C4001 | F2A1E221A205 | F2A1E221A643 |
| C4005 | F2A1A102A206 | F2A1A102A206 |
| C4008 | F2A1H221A236 | F2A1H221A236 |
| C4009 | F2A1H221A236 | F2A1H221A236 |
| C4011 | F2A1V221A082 | F2A1E221A643 |
| C4017 | F2A1V221A082 | F2A1V221A082 |
| C4018 | F2A1V221A082 | F2A1V221A082 |
| C4023 | \$(ECQV1H104JL3) | ECQV1H104JL3 |
| C4024 | \$(ECQV1H104JL3) | ECQV1H104JL3 |
| C4025 | \$(ECQV1H104JL3) | ECQV1H104JL3 |
| C4029 | F2A1V221A082 | F2A1E221A643 |
| C4031 | F2A1V221A082 | F2A1E221A643 |
| C4032 | F2A1E470A205 | F2A0J470A947 |
| C4033 | F2A1E470A205 | F2A0J470A947 |
| C4040 | F2A1E470A205 | F2A0J470A947 |
| C4041 | F2A1E470A205 | F2A0J470A947 |



| | |
|-----|--|
| | |
| 3/4 | |

 DMP-BD30PP/PL
 Audio_Main Section
 (AV Main P.C.B. (2/2))
 Schematic Diagram (A)



オーディオ性

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[PP]

DMP-BD30PP/PL
Audio_Main Section
(AV Main P.C.B. (2/2))
Schematic Diagram (A)

4/4

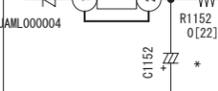
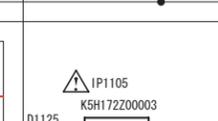
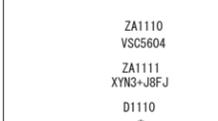
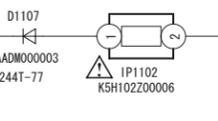
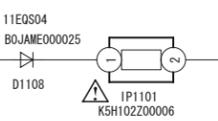
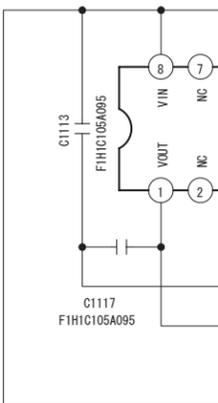
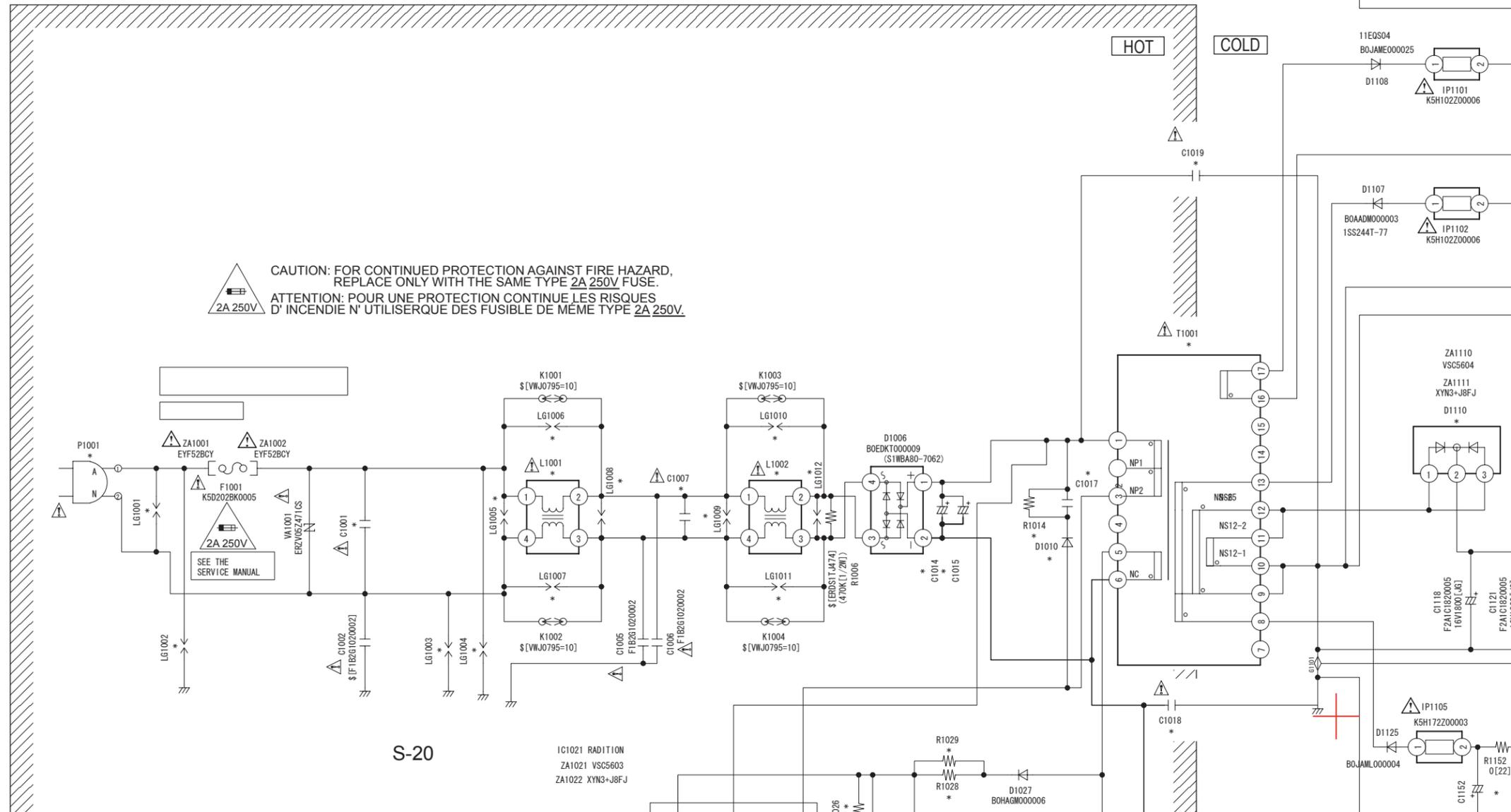
11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21

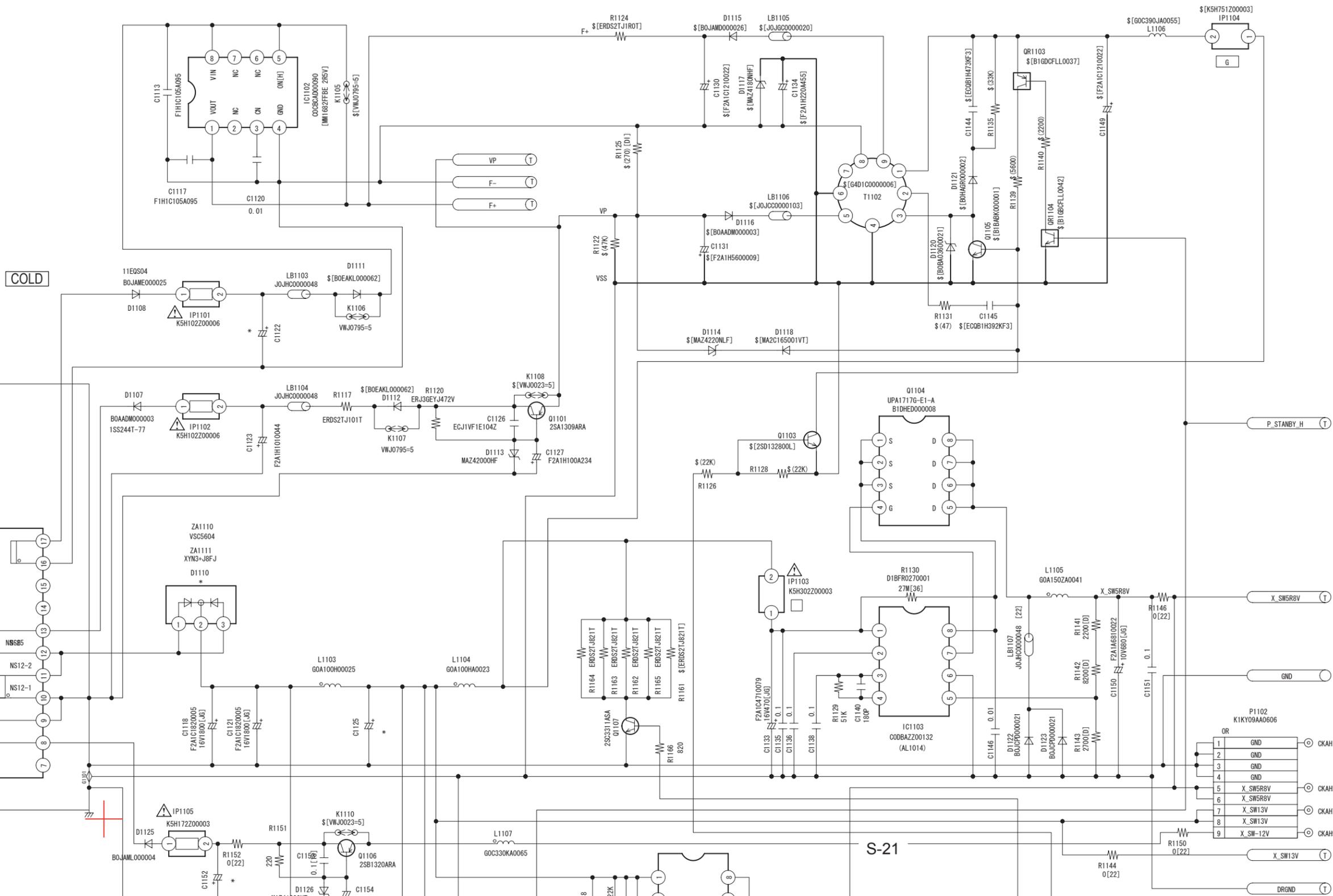
S4.4. Power_P (P) Schematic Diagram

1/4 DMP-BD30PP/PL
Power_P Section
(Power/Timer P.C.B. (1/2))
Schematic Diagram (P)

N
M
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CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,
REPLACE ONLY WITH THE SAME TYPE 2A 250V FUSE.
ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES
D'INCENDIE N'UTILISER QUE DES FUSIBLES DE MÊME TYPE 2A 250V.







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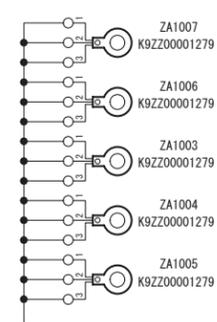
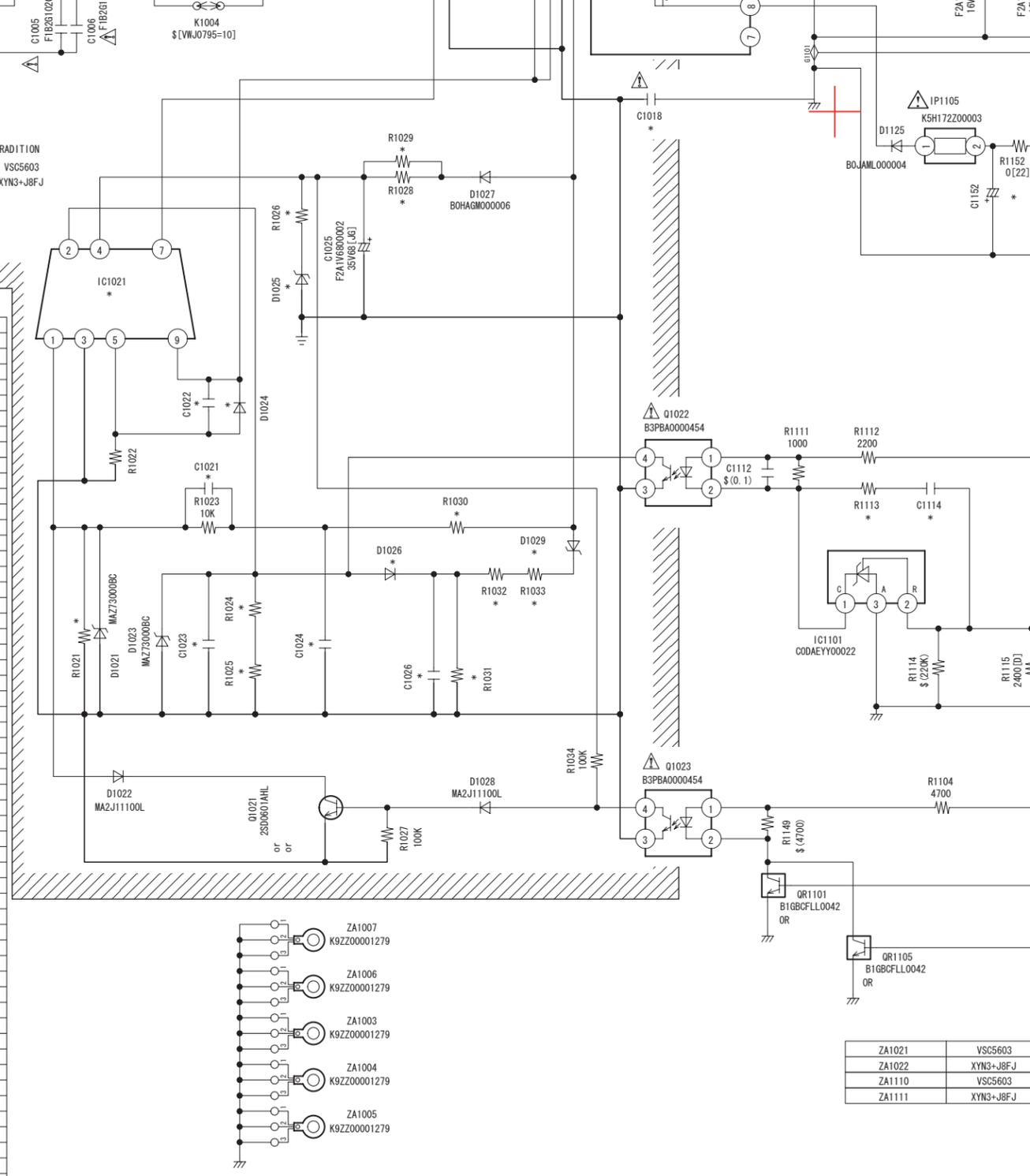
9

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12

| VariationCategory | DMP-BD30PP | DMP-BD30PL | DMP-BD30EG/EE/GN/GCS |
|-------------------|------------------|------------------|----------------------|
| C1001 | ECQU2A683MLC | ECQU2A683MLC | ECQU2A683MLC |
| C1007 | ECQU2A223MLC | ECQU2A223MLC | ECQU2A223MLC |
| C1014 | F2B2E1510004 | F2B2E1510004 | F2B2W4700003 |
| C1015 | \$(EETHC2E151HY) | \$(EETHC2E151HY) | \$(EETHC2E151HY) |
| C1017 | \$(F1B3A3320011) | \$(F1B3A3320011) | F1B3A3320011 |
| C1018 | F1B2G1020002 | F1B2G1020002 | ECKWNA102MEV |
| C1019 | \$(F1B2G1020002) | \$(F1B2G1020002) | \$(ECKWNA102MEV) |
| C1021 | \$(470P) | \$(470P) | \$(470P) |
| C1022 | F1B3A2720001 | F1B3A2720001 | KAR-F1A00001 |
| C1023 | 470P | 470P | 470P |
| C1024 | 100P | 100P | 100P |
| C1026 | 2200P | 2200P | 3300P |
| C1114 | 0.1 | 0.1 | 0.1 |
| C1122 | F2A0J6800003 | F2A0J6800003 | F2A1A5600003 |
| C1124 | 0.1 | 0.1 | 0.1 |
| C1125 | F2A1C102A236 | F2A1C102A236 | EGA1CPX102E |
| C1152 | F2A1V2210049 | F2A1V2210049 | F2A1E221A643 |
| C1154 | F2A1E221A205 | F2A1E221A205 | F2A1E221A643 |
| D1010 | \$(BOHADV000001) | \$(BOHADV000001) | BOHADV000001 |
| D1024 | \$(BOHADV000001) | \$(BOHADV000001) | BOHADV000001 |
| D1025 | MAZ4150NMF | MAZ4150NMF | MAZ41600MF |
| D1026 | MA2C165001VT | MA2C165001VT | BOJAML000011 |
| D1029 | MAZ41200MF | MAZ41200MF | MAZ41000MF |
| D1110 | BOJBSG000010 | BOJBSG000010 | BOJBSL000002 |
| IC1021 | CODACZH00035 | CODACZH00035 | CODACZH00017 |
| L1001 | GOB100E00002 | GOB100E00002 | GOB233D00001 |
| L1002 | GOB100E00002 | GOB100E00002 | GOB233D00001 |
| LG1001 | \$(LGS-3.5) | \$(LGS-3.5) | \$(LGS-3.5) |
| LG1002 | \$(LGS-6.2) | \$(LGS-6.2) | \$(LGS-6.2) |
| LG1003 | \$(LGS-6.2) | \$(LGS-6.2) | \$(LGS-6.2) |
| LG1004 | \$(LGS-6.2) | \$(LGS-6.2) | \$(LGS-6.2) |
| LG1005 | \$(LGS-3.5) | \$(LGS-3.5) | \$(LGS-3.5) |
| LG1006 | \$(LGS-1.5) | \$(LGS-1.5) | \$(LGS-1.5) |
| LG1007 | \$(LGS-1.5) | \$(LGS-1.5) | \$(LGS-1.5) |
| LG1008 | \$(LGS-3.5) | \$(LGS-3.5) | \$(LGS-3.5) |
| LG1009 | \$(LGS-3.5) | \$(LGS-3.5) | \$(LGS-3.5) |
| LG1010 | \$(LGS-1.5) | \$(LGS-1.5) | \$(LGS-1.5) |
| LG1011 | \$(LGS-1.5) | \$(LGS-1.5) | \$(LGS-1.5) |
| LG1012 | \$(LGS-3.5) | \$(LGS-3.5) | \$(LGS-3.5) |
| P1001 | K2AB2H000004 | K2AA2H000007 | K2AA2H000007 |
| R1014 | \$(ERG2SJ683P) | \$(ERG2SJ683P) | ERG2SJ104P |
| R1021 | \$(10K) | \$(10K) | \$(10K) |
| R1022 | ERX2SZJR10E | ERX2SZJR10E | ERX2SZJR20E |
| R1024 | 15k[D] | 15k[D] | 15k[D] |
| R1025 | 1000[D] | 1000[D] | 2200[D] |
| R1026 | ERDS2TJ151T | ERDS2TJ151T | ERDS2TJ221T |
| R1028 | 10 | 10 | 22 |
| R1029 | 10 | 10 | 22 |
| R1030 | 2700 | 2700 | 1500 |
| R1031 | \$(100K) | \$(100K) | \$(100K) |
| R1032 | 2200[D] | 2200[D] | 5100[D] |
| R1033 | 3300[D] | 3300[D] | 4700[D] |
| R1113 | 10k | 10k | 1k |
| R1116 | 2.2k | 2.2k | 2.2k |
| T1001 | G4D2A0000289 | G4D2A0000289 | KAR-G4D00016 |

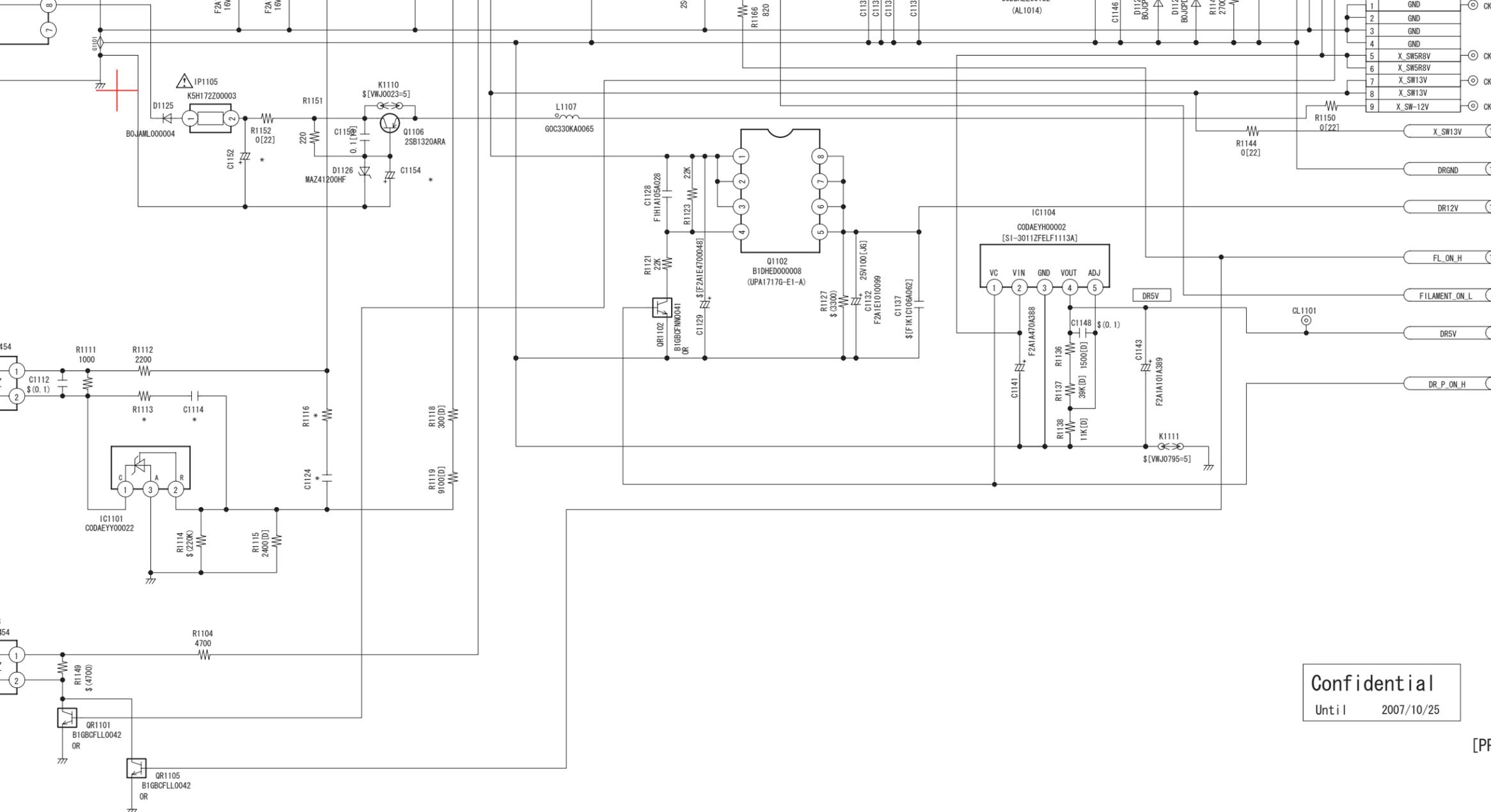


| | |
|--------|-----------|
| ZA1021 | VSC5603 |
| ZA1022 | XYN3+J8FJ |
| ZA1110 | VSC5603 |
| ZA1111 | XYN3+J8FJ |

DMP-BD30PP/PL
Power_P Section
(Power/Timer P.C.B. (1/2))
Schematic Diagram (P)

3/4





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Until 2007/10/25

[PP]

| | |
|--------|-----------|
| ZA1021 | VSC5603 |
| ZA1022 | XYN3+J8FJ |
| ZA1110 | VSC5603 |
| ZA1111 | XYN3+J8FJ |

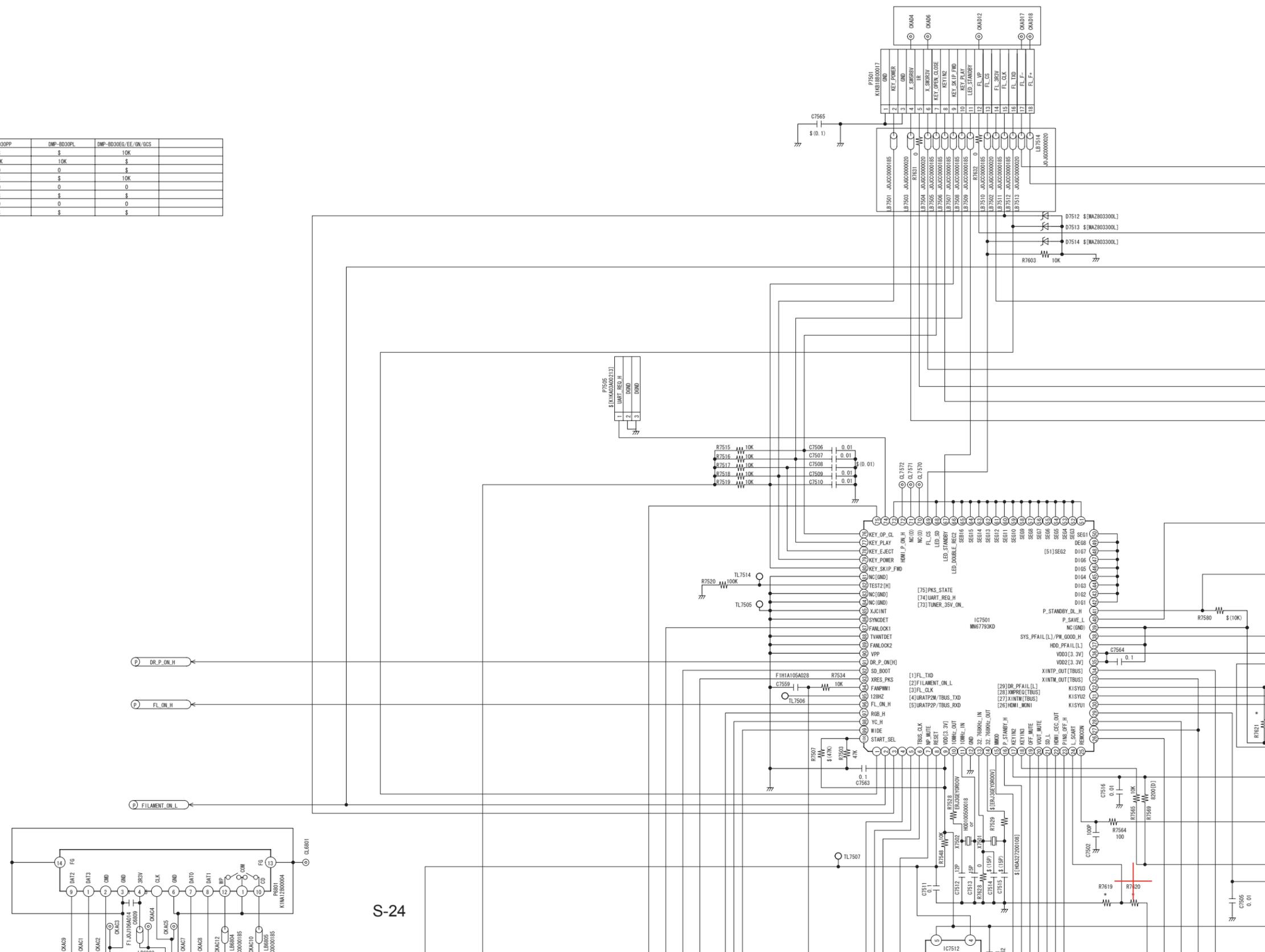
DMP-BD30PP/PL
Power_P Section
(Power/Timer P.C.B. (1/2))
Schematic Diagram (P)

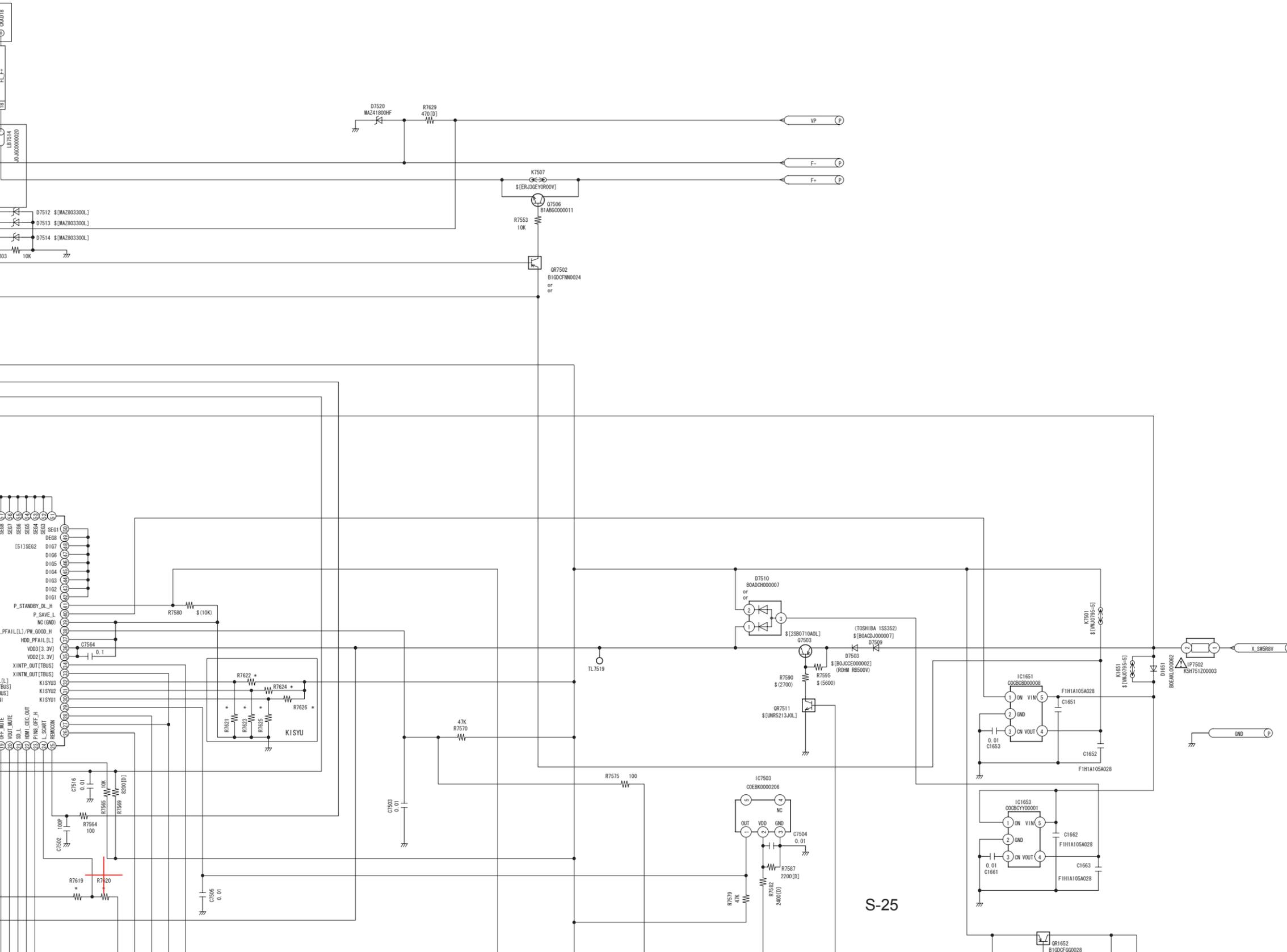
4/4

S4.5. Timer (T) Schematic Diagram

1/4 DMP-BD30PP/PL
Timer Section
(Power/Timer P.C.B. (2/2))
Schematic Diagram (T)

| Part No. | DMP-BD30PP | DMP-BD30PL | DMP-BD30EG/EE/EN/GCS |
|----------|------------|------------|----------------------|
| R7619 | \$ | \$ | 10K |
| R7620 | 10K | 10K | \$ |
| R7621 | 0 | 0 | \$ |
| R7622 | \$ | \$ | 10K |
| R7623 | 0 | 0 | 0 |
| R7624 | \$ | \$ | \$ |
| R7625 | 0 | 0 | 0 |
| R7626 | \$ | \$ | \$ |

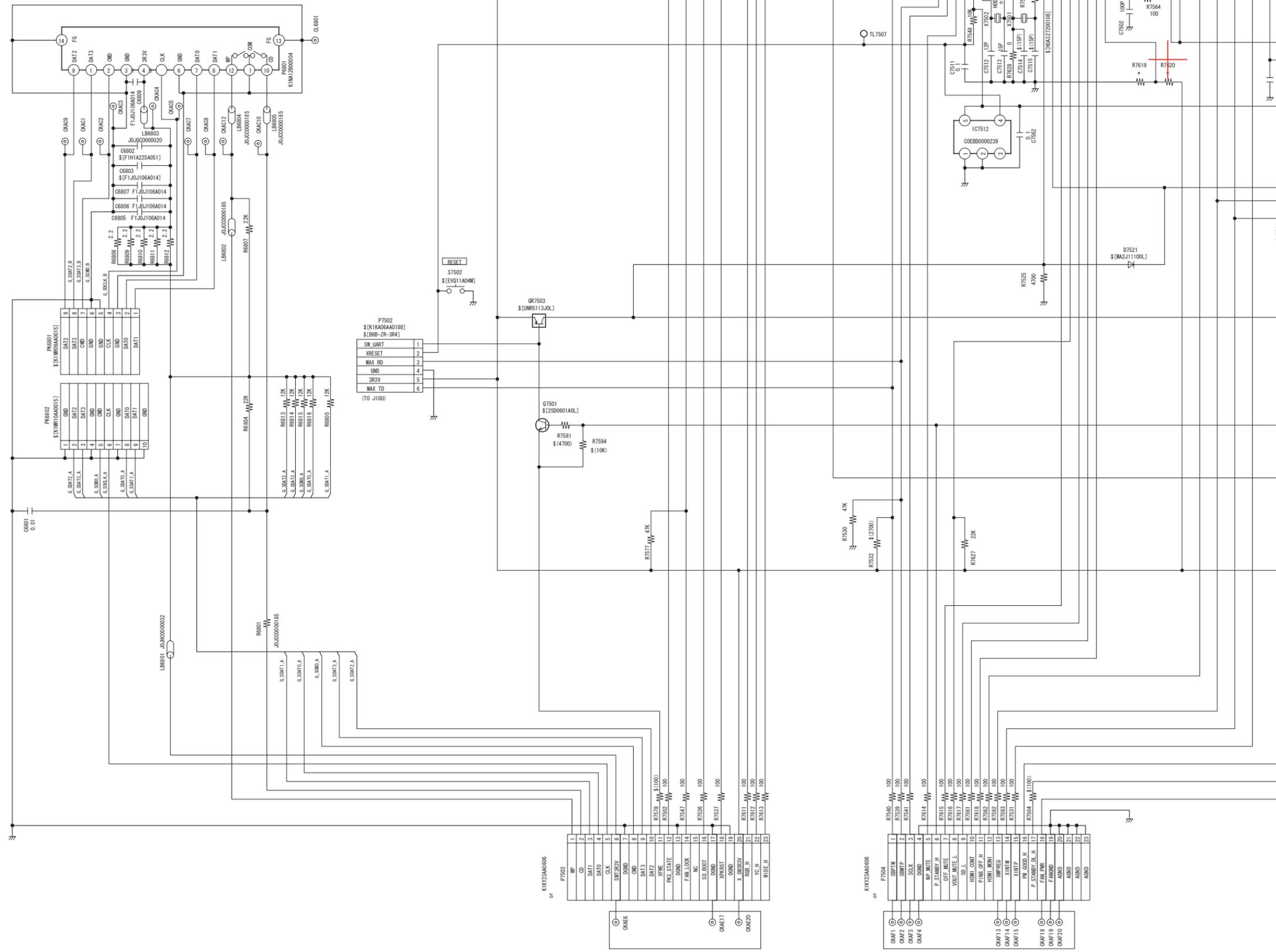






H
G
F
E
D
C
B
A

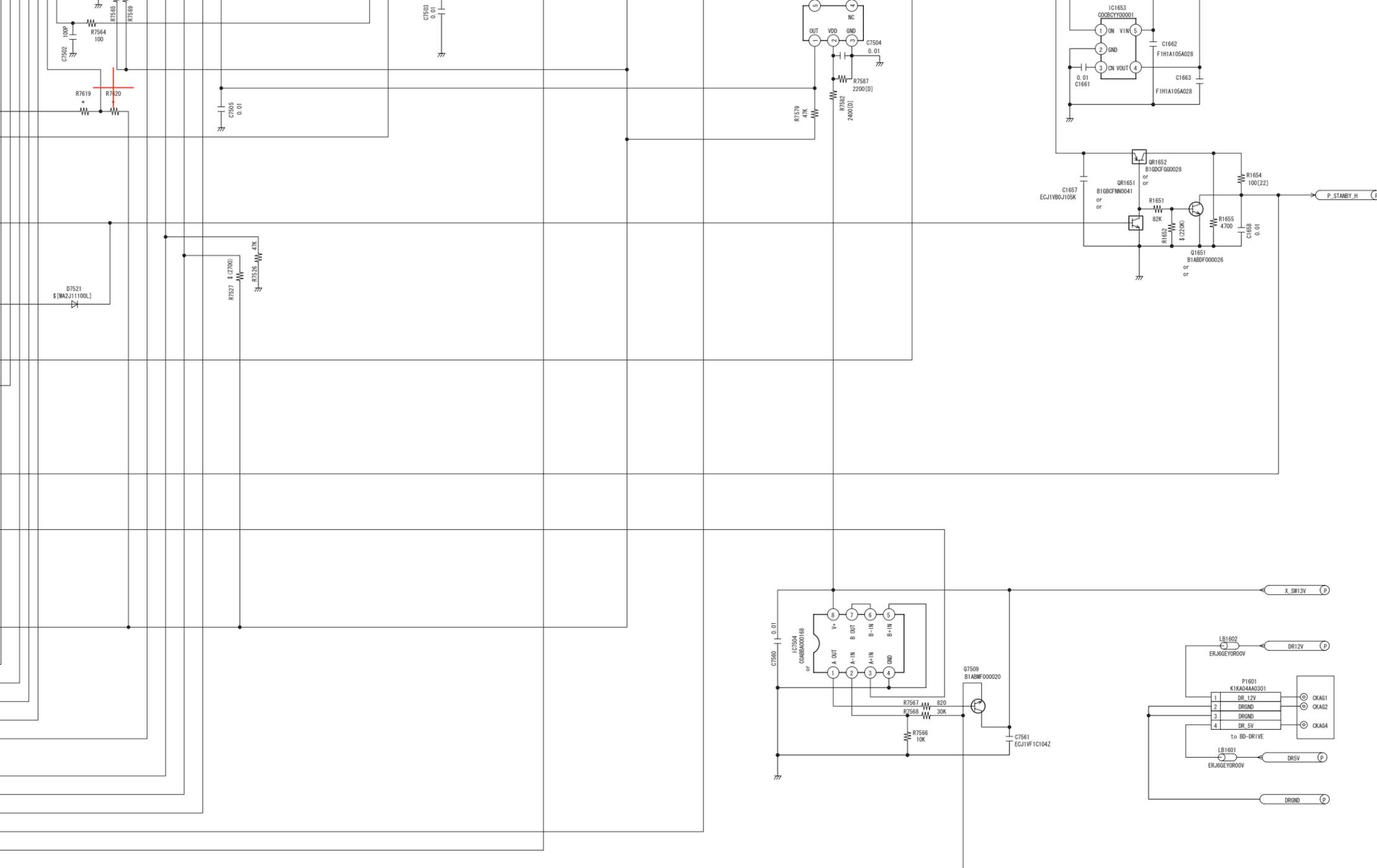
1 2 3 4 5 6 7 8 9 10 11 12



3/4

DMP-BD30PP/PL
Timer Section
(Power/Timer P.C.B. (2/2))
Schematic Diagram (T)





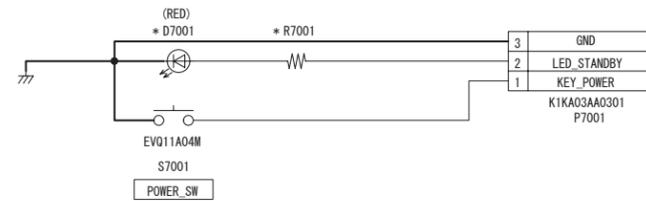
[MP]

2007/10/25



S4.6. Front_L Schematic Diagram

G
F
E
D
C
B
A



[PP]

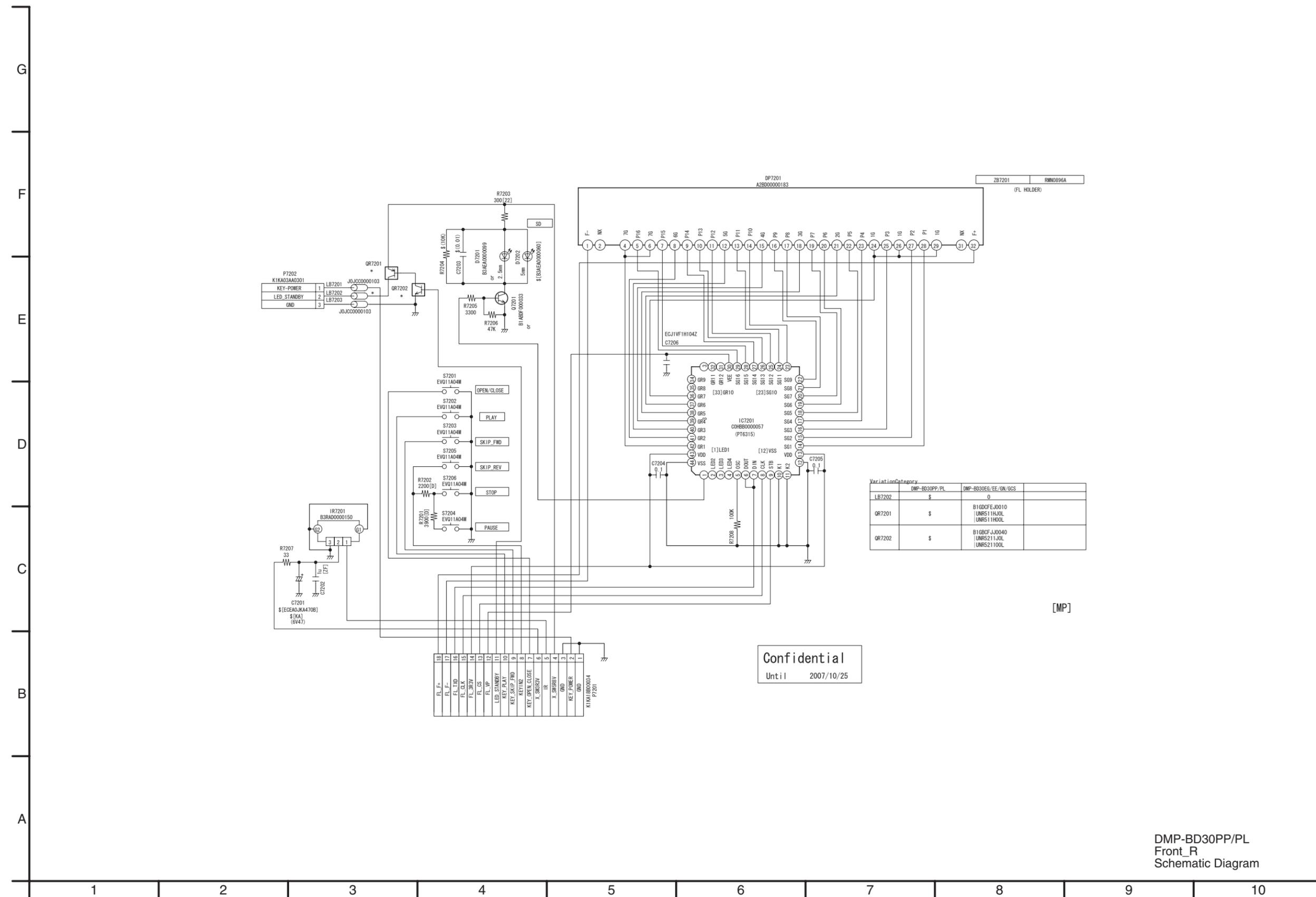
| VariationCategory | | | |
|-------------------|---------------|----------------------|--|
| | DMP-BD30PP/PL | DMP-BD30EG/EE/GN/GCS | |
| D7001 | \$ | B3AAA0000791 | |
| R7001 | \$ | 300[22] | |

Confidential
Until 2007/10/25

DMP-BD30PP/PL
Front_L
Schematic Diagram

1 2 3 4 5 6 7 8 9 10

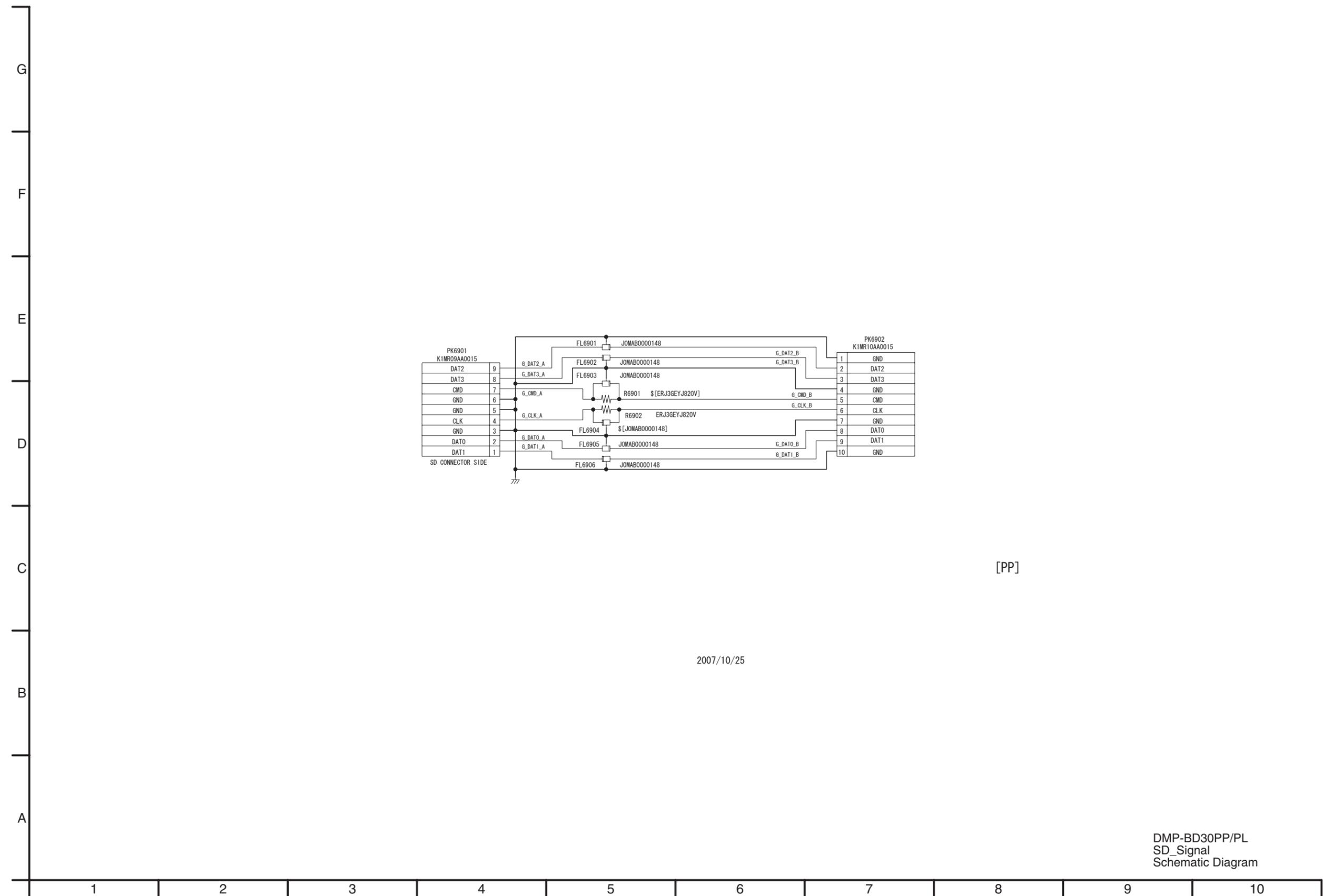
S4.7. Front_R Schematic Diagram



Confidential
Until 2007/10/25

DMP-BD30PP/PL
Front_R
Schematic Diagram

S4.8. SD_Signal Schematic Diagram



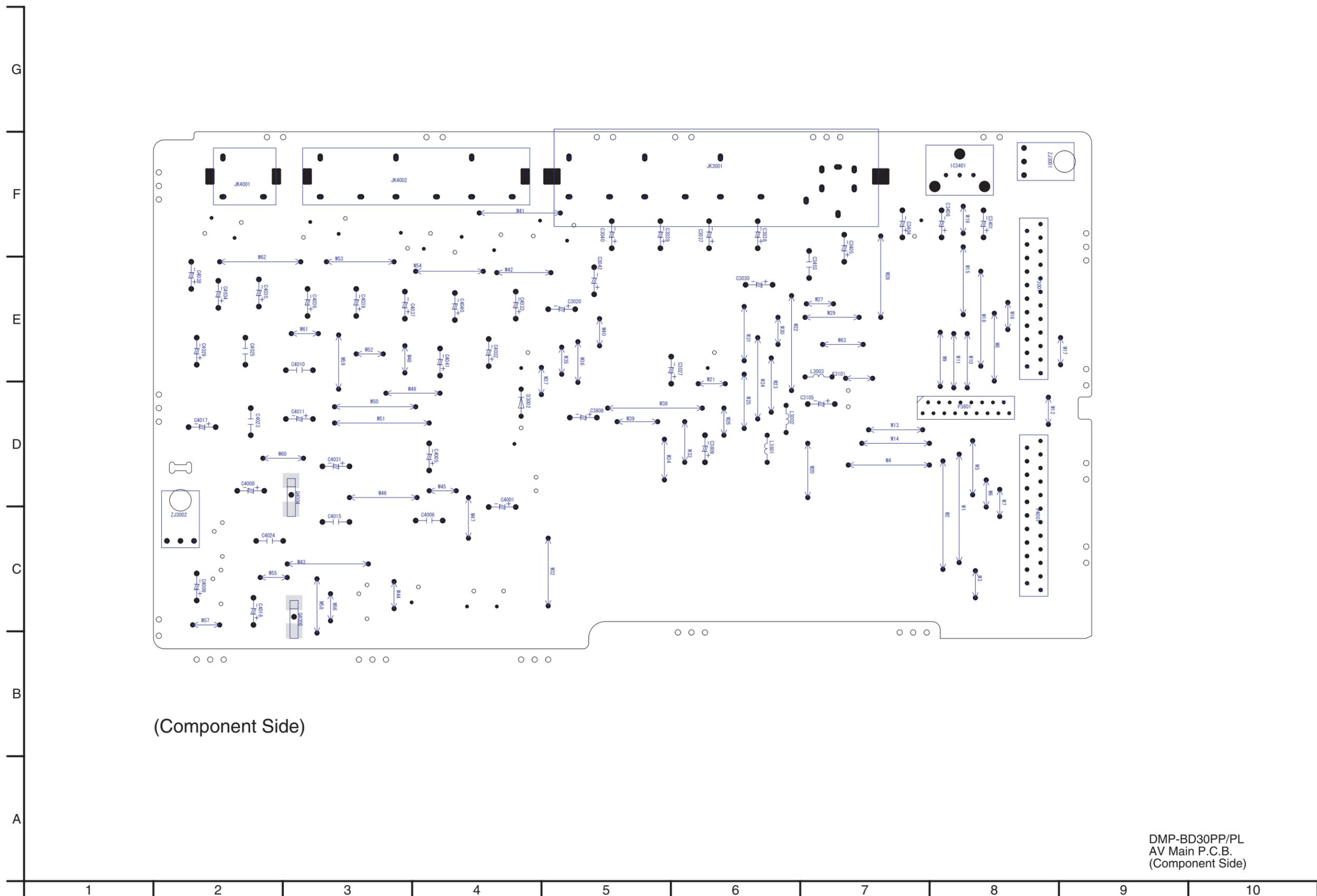
[PP]

2007/10/25

S5. Print Circuit Board

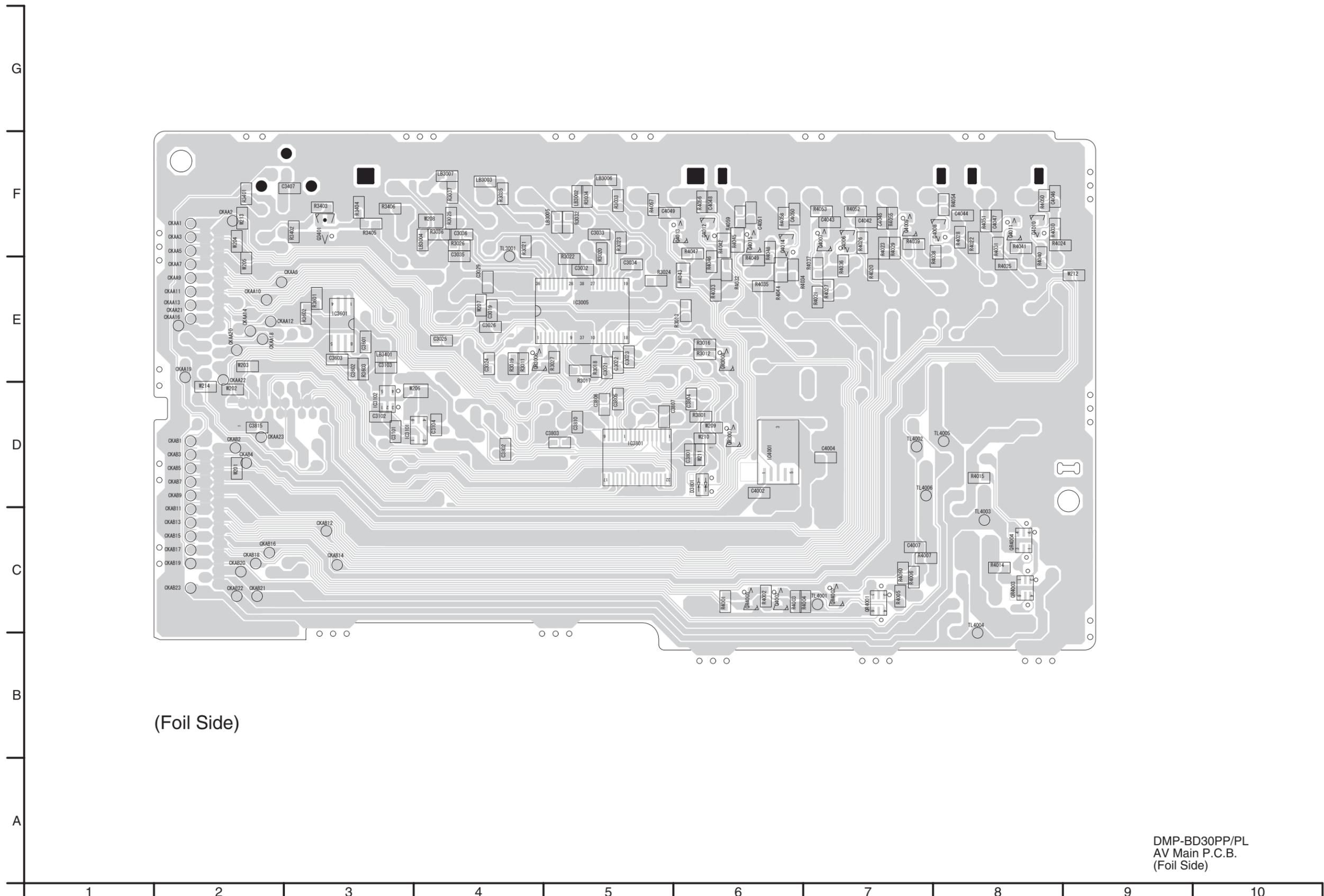
S5.1. AV Main P.C.B.

S5.1.1. AV Main P.C.B. (Component Side)



DMP-BD30PP/PL
AV Main P.C.B.
(Component Side)

S5.1.2. AV Main P.C.B. (Foil Side)



(Foil Side)

DMP-BD30PP/PL
AV Main P.C.B.
(Foil Side)

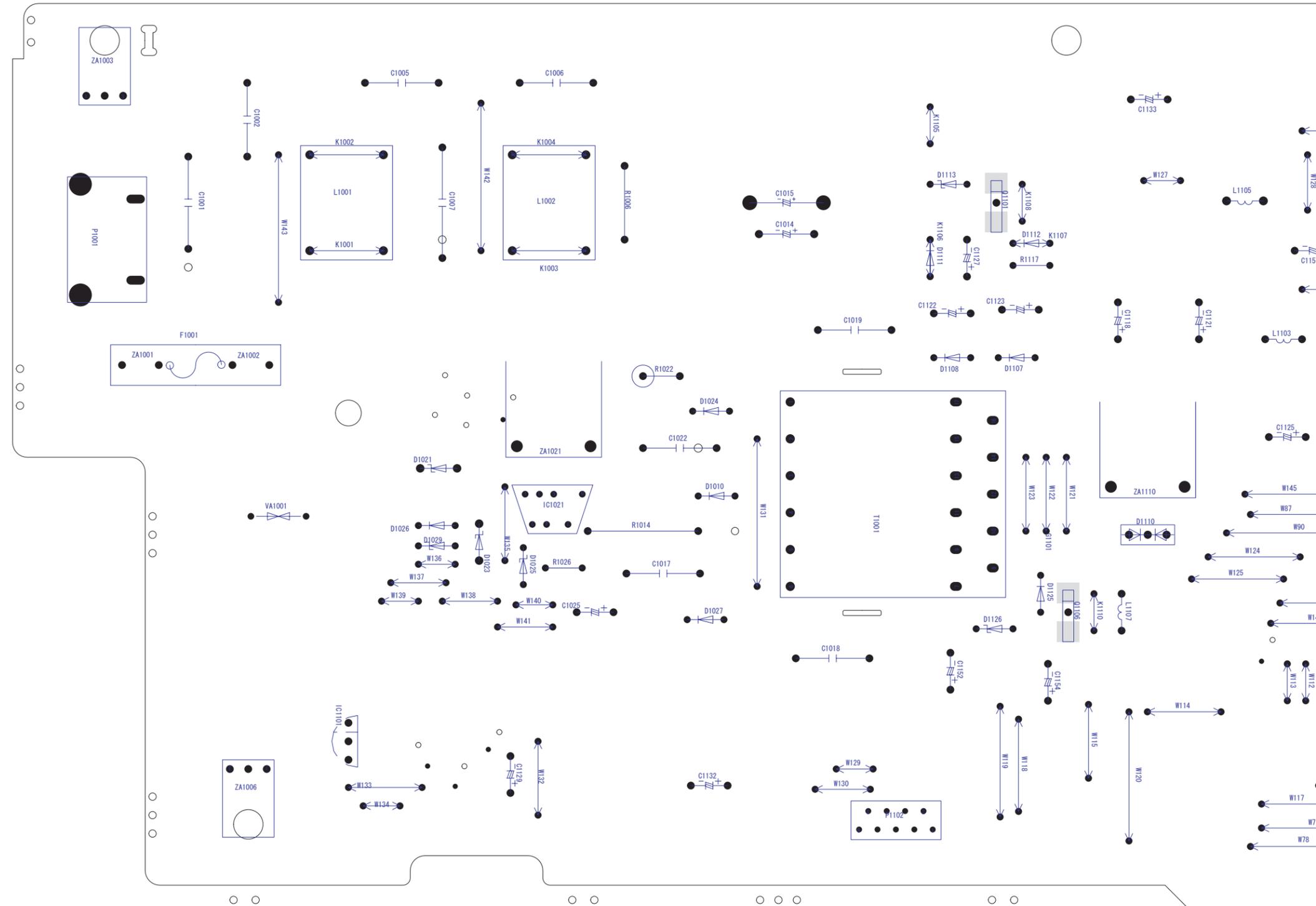
S5.2. Power/Timer P.C.B.

S5.2.1. Power/Timer P.C.B. (Component Side)

| | |
|-----|--|
| 1/4 | |
| | |

DMP-BD30PP/PL
Power/Timer P.C.B.
(Component Side)

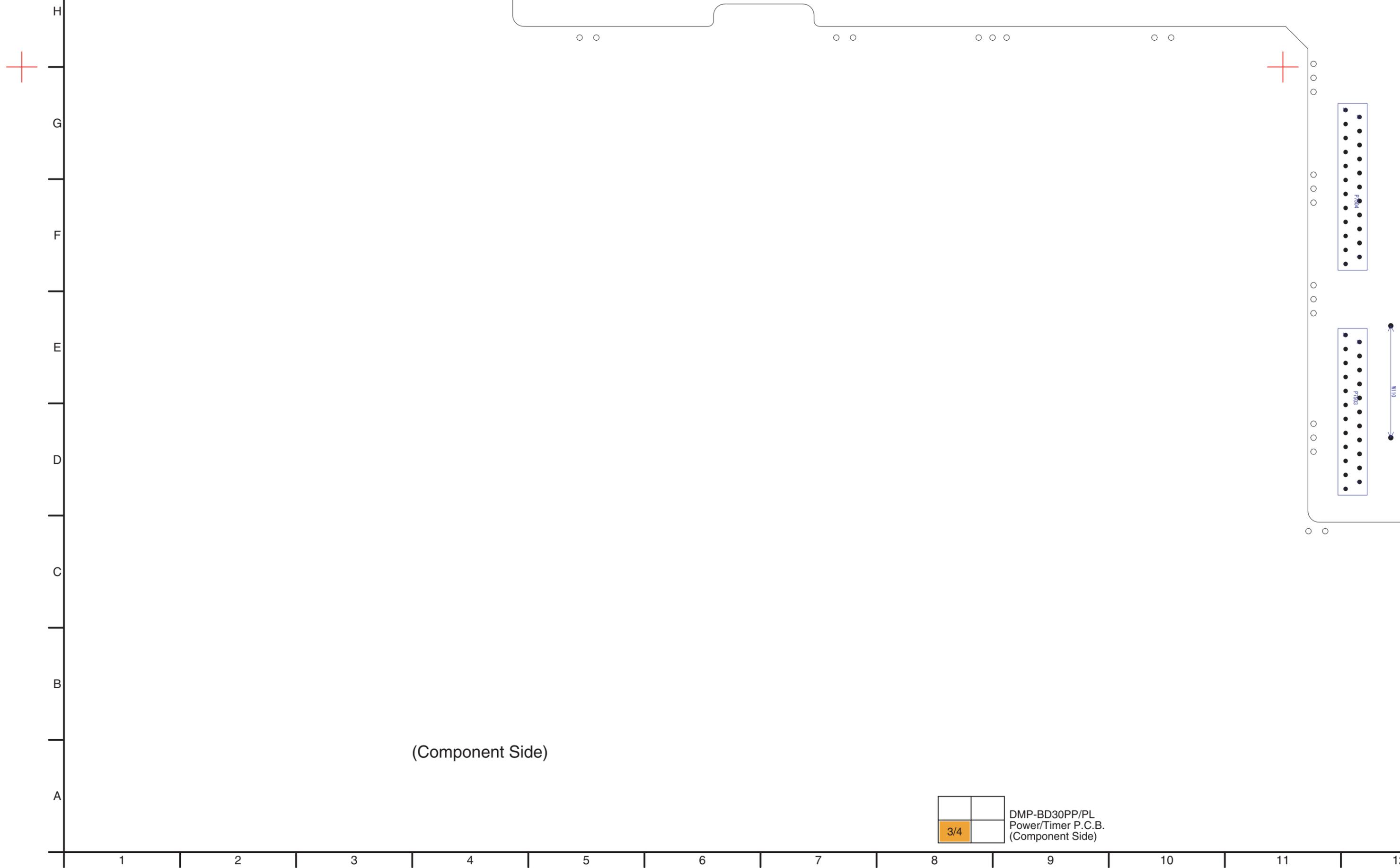
N
M
L
K
J
I
H
G





S-35

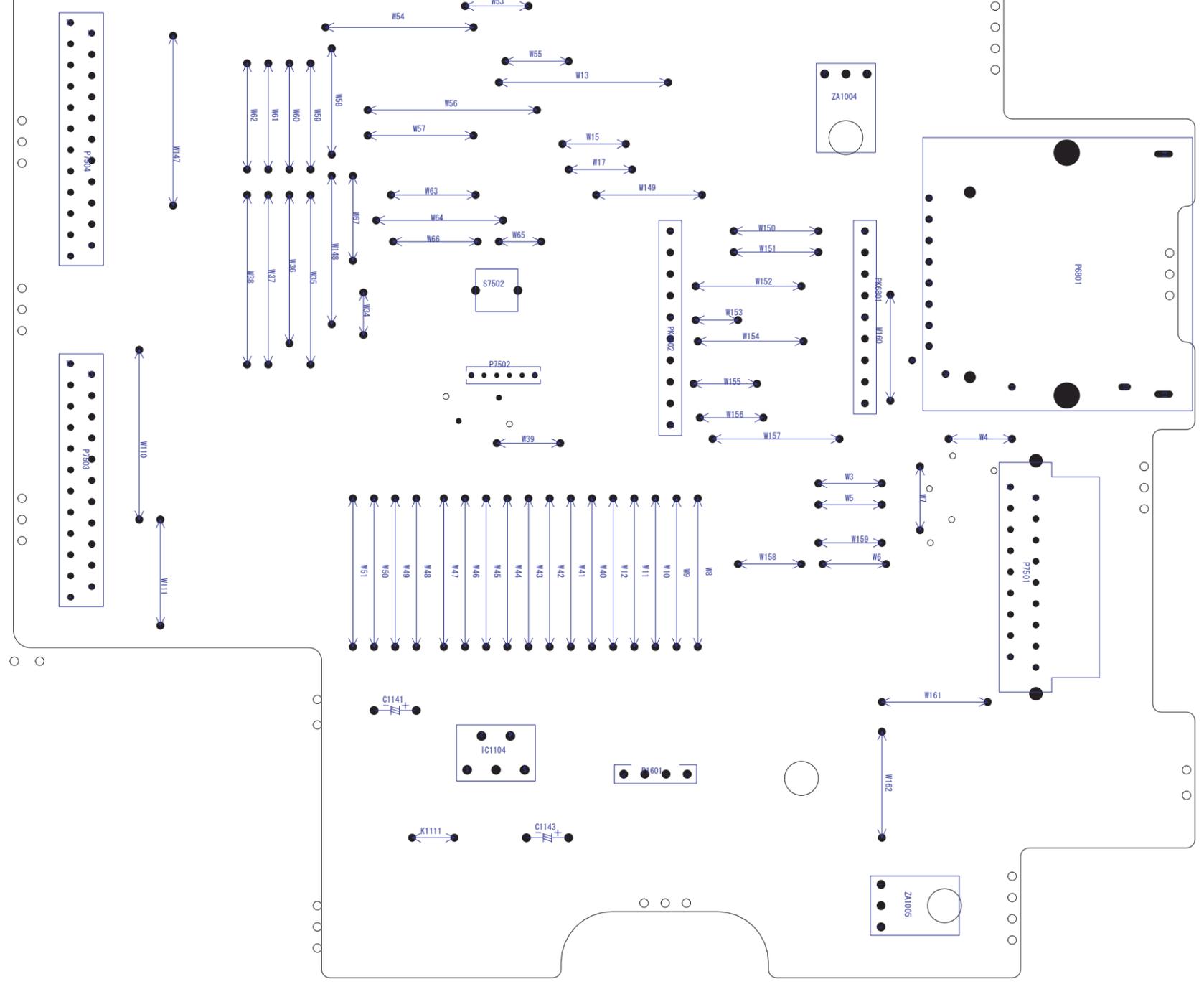




(Component Side)

| | |
|-----|--|
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| 3/4 | |

 DMP-BD30PP/PL
 Power/Timer P.C.B.
 (Component Side)



| | | |
|--|-----|---|
| | | DMP-BD30PP/PL Power/Timer P.C.B. (Component Side) |
| | 4/4 | |

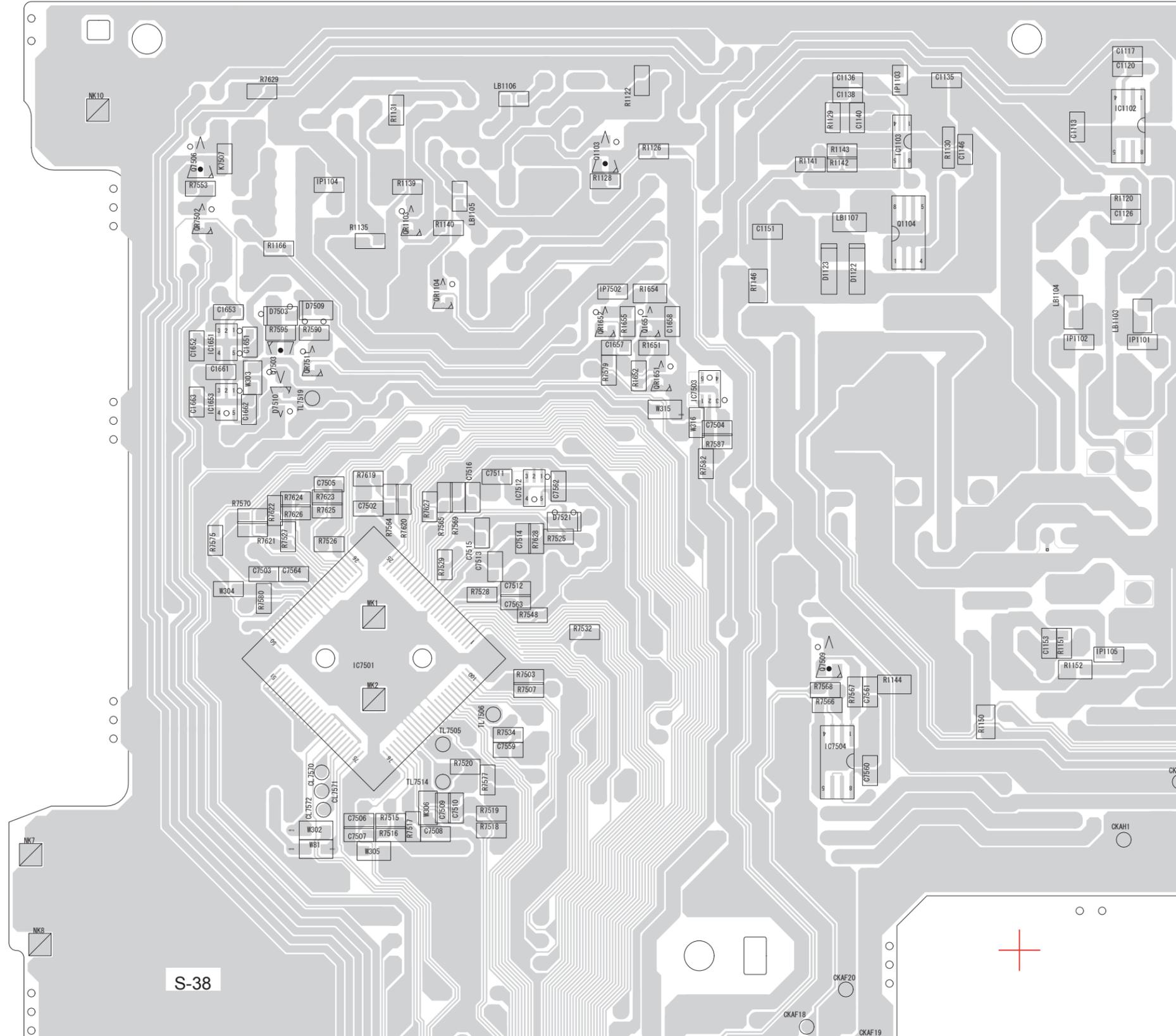
11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21



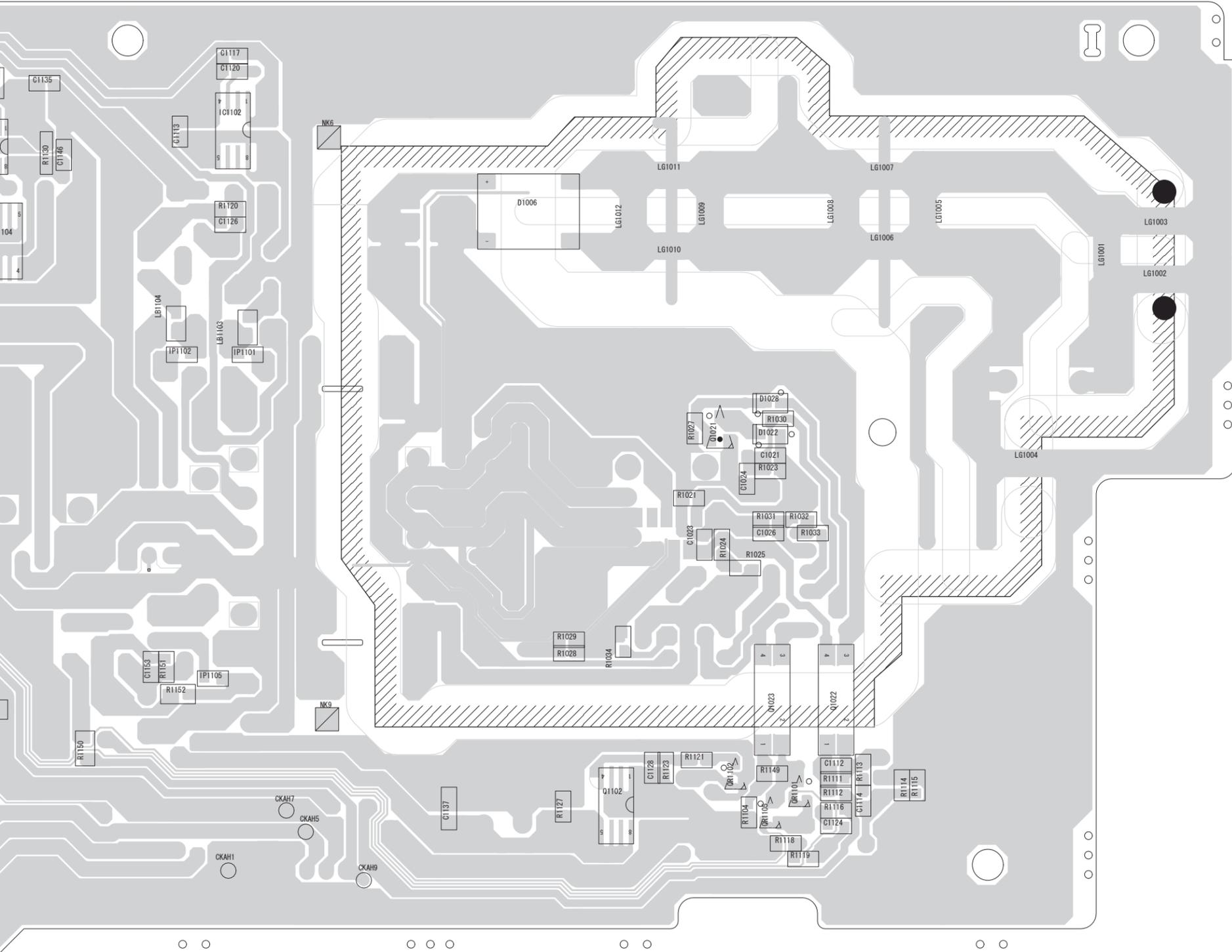
S5.2.2. Power/Timer P.C.B. (Foil Side)

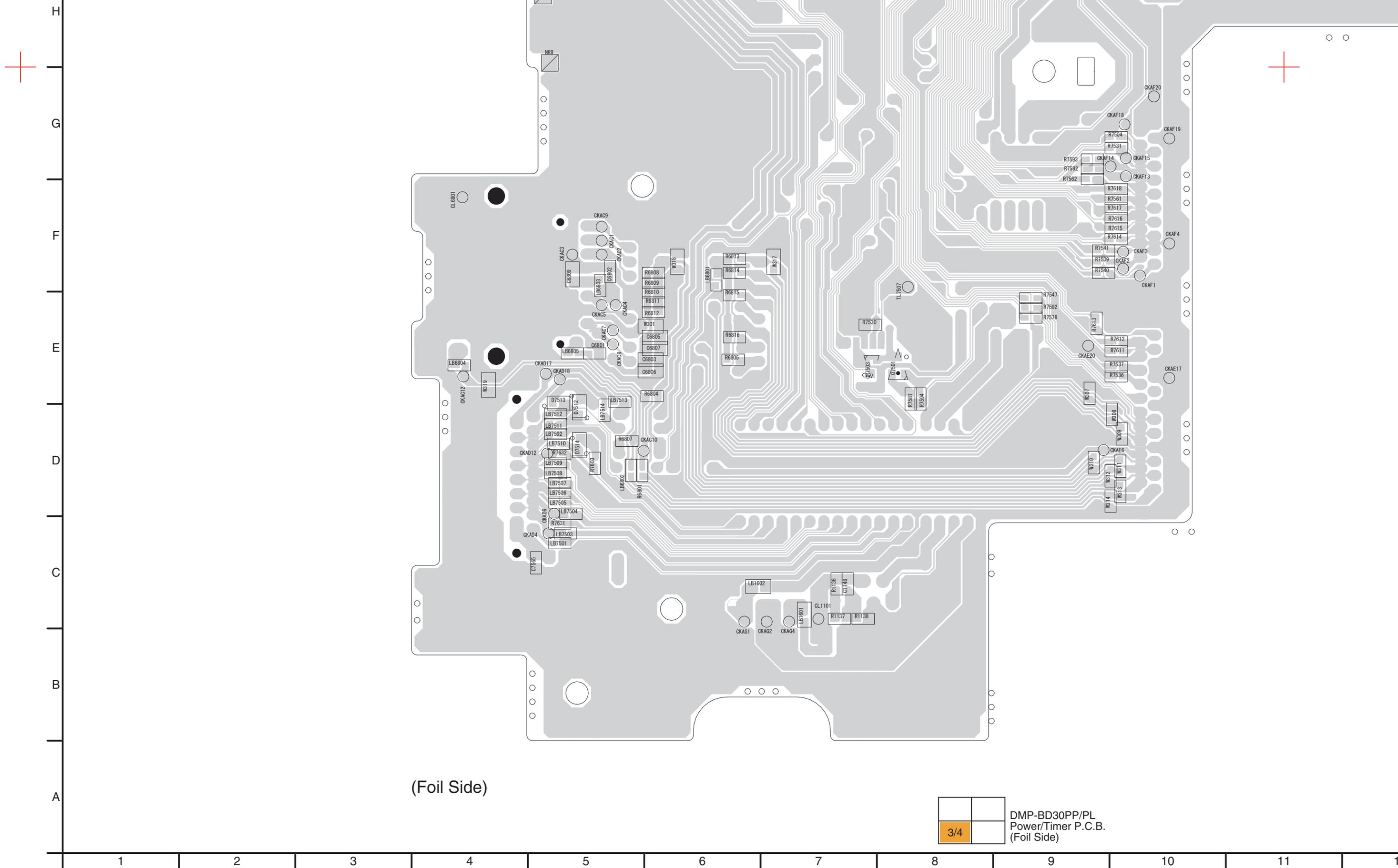
| | |
|-----|--|
| 1/4 | |
| | |

DMP-BD30PP/PL
Power/Timer P.C.B.
(Foil Side)



S-38







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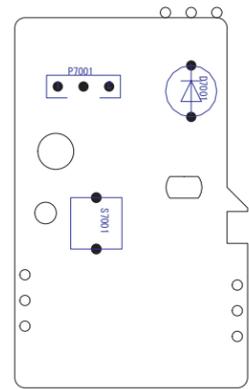
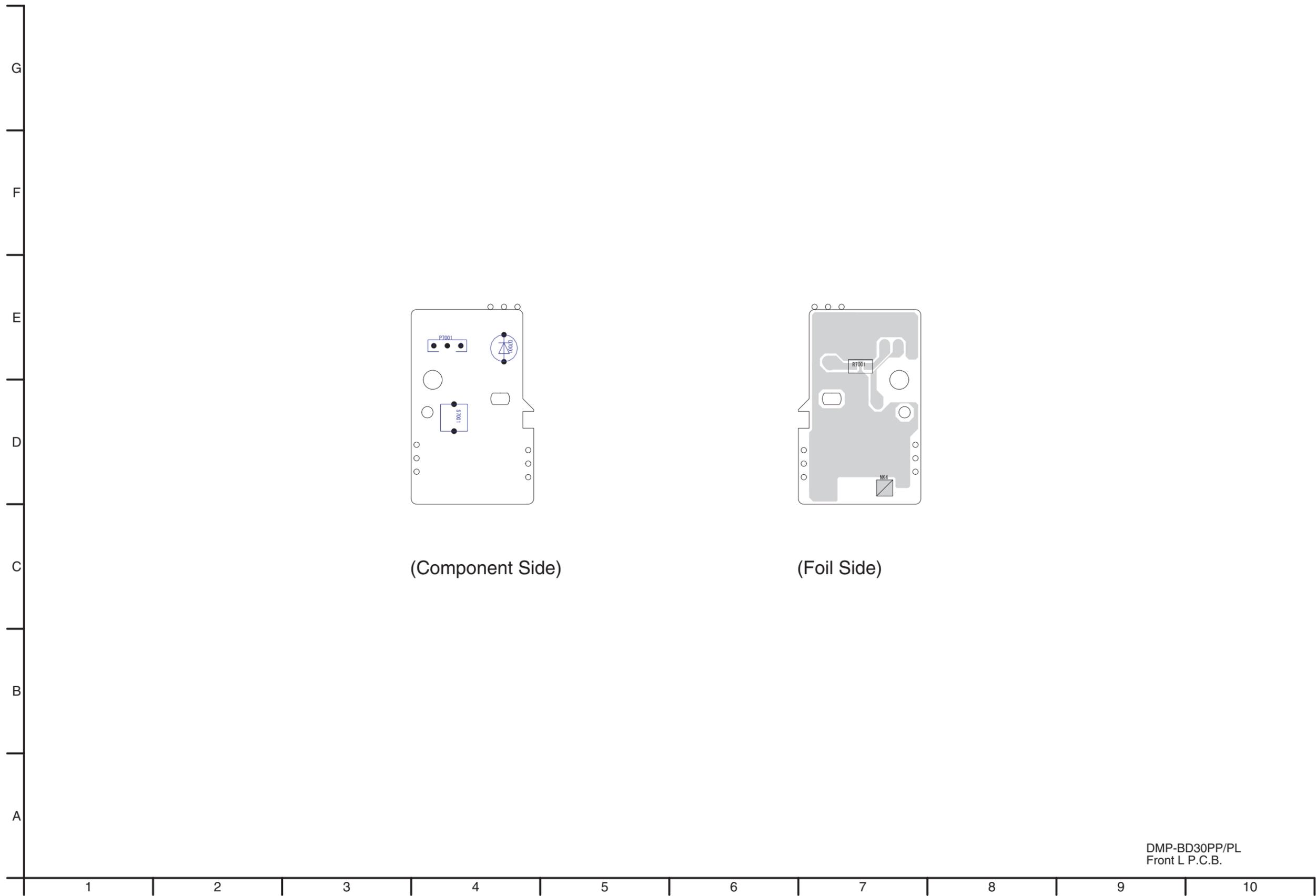
| | |
|--|-----|
| | |
| | 4/4 |

DMP-BD30PP/PL
Power/Timer P.C.B.
(Foil Side)

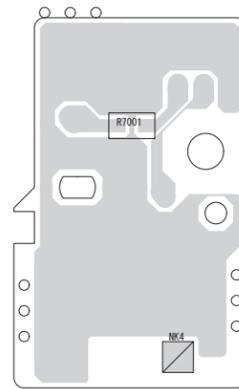
11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21



S5.3. Front L P.C.B.

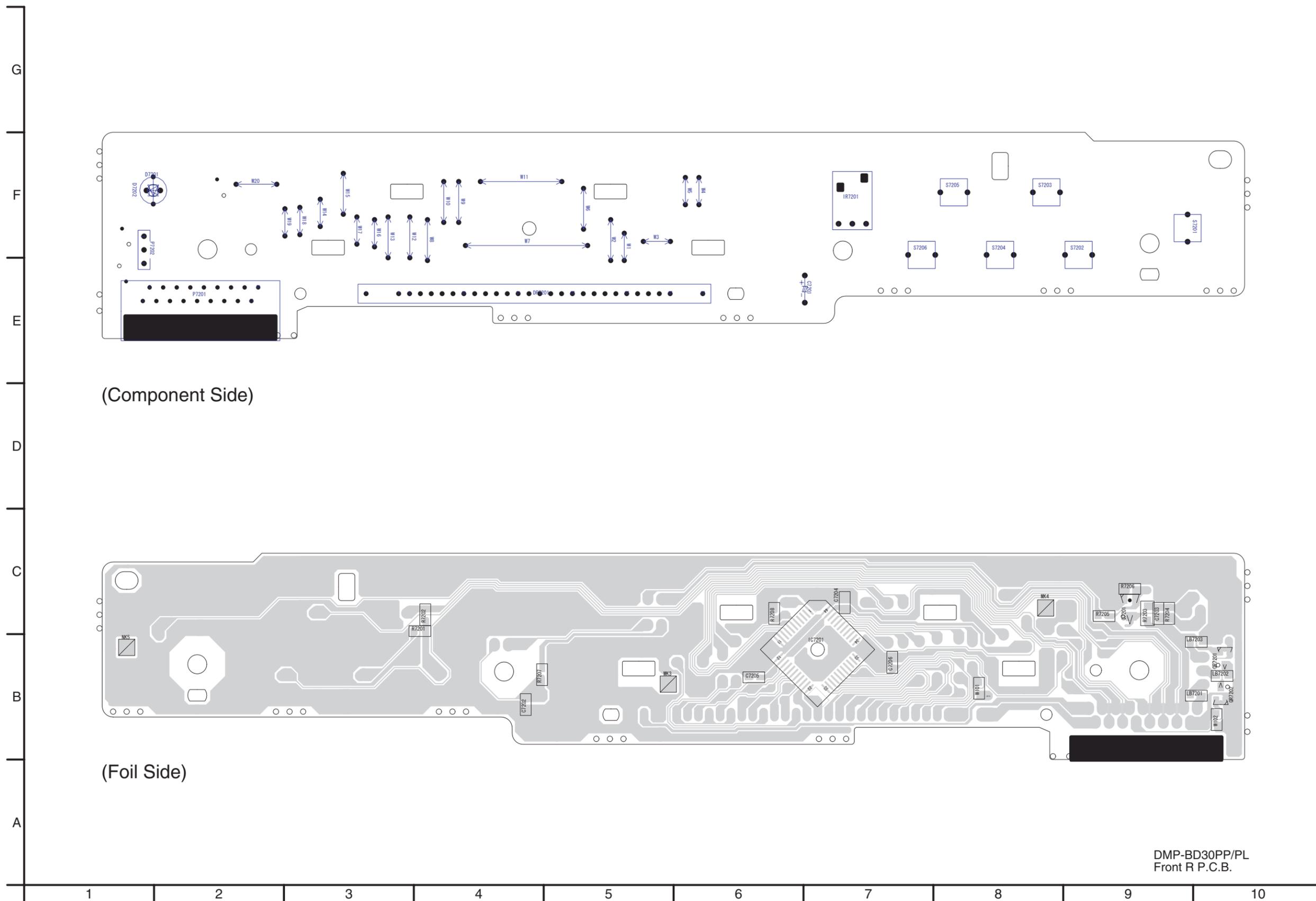


(Component Side)



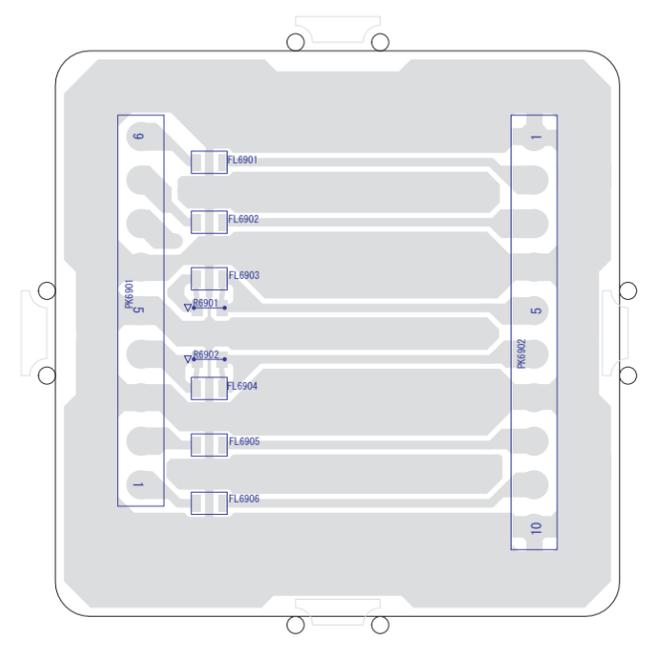
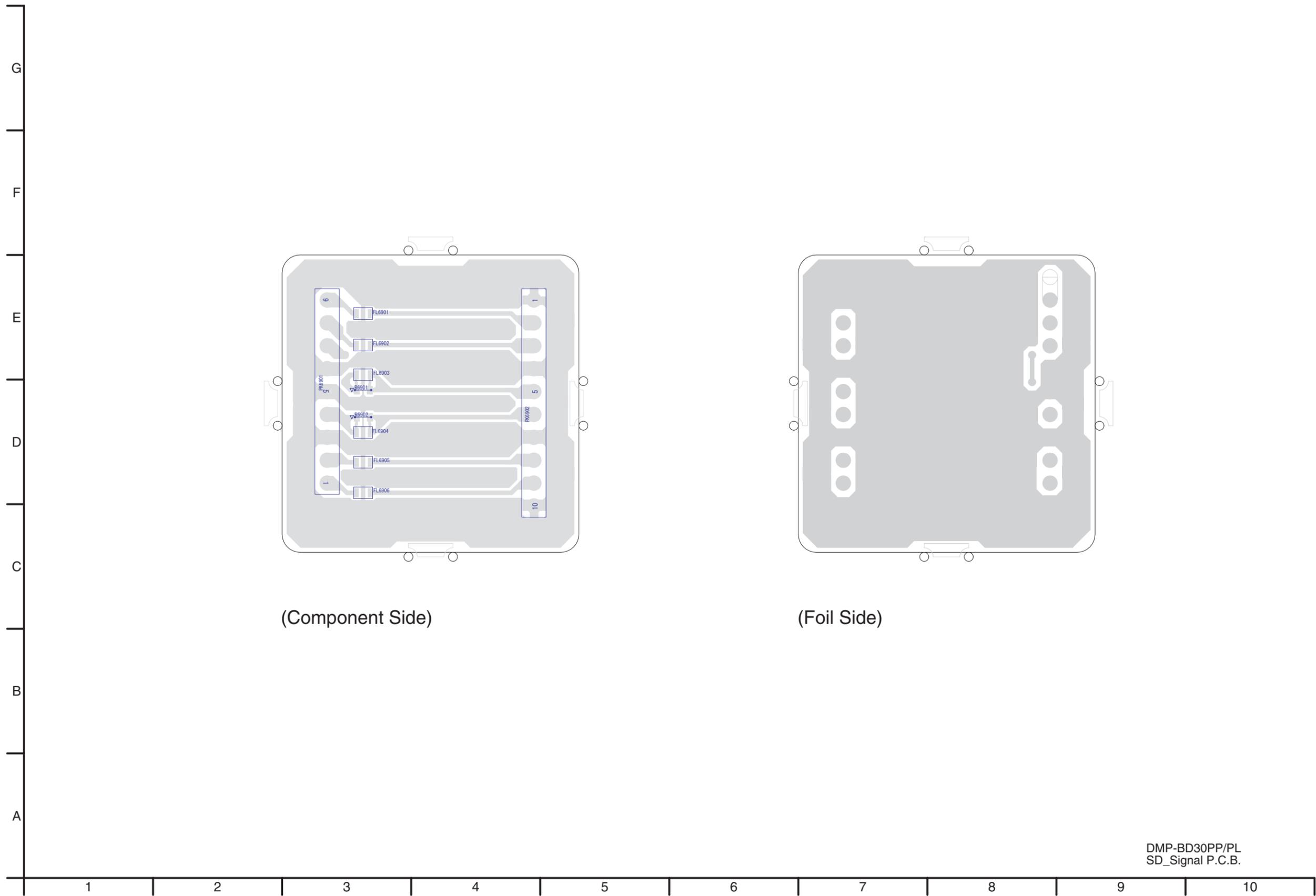
(Foil Side)

S5.4. Front R P.C.B.

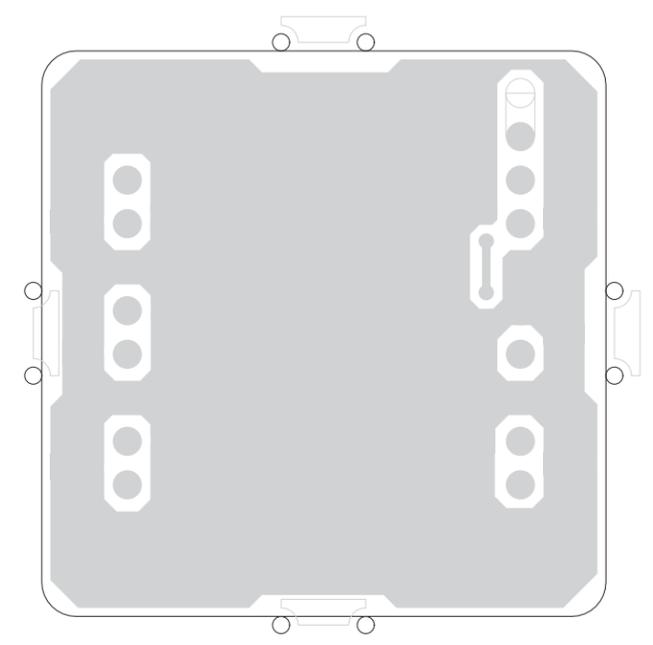


DMP-BD30PP/PL
Front R P.C.B.

S5.5. SD_Signal P.C.B.



(Component Side)



(Foil Side)

DMP-BD30PP/PL
SD_Signal P.C.B.

S6. Abbreviation

| 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 SERVO AMP OUTPUT 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 SYSTEM CLOCK SELECT CLV CONSTANT LINEAR VELOCITY COFTR CAP. OFF TRACK CPA CPU ADDRESS CPCS CPU CHIP SELECT CPDT CPU DATA CPH1~3 CLOCK PULSE SOURCE DRIVE CPUADR CPU ADDRESS LATCH CPUADT CPU ADDRESS DATA BUS CPUIRQ CPU INTERRUPT REQUEST CPRD CPU READ ENABLE CPV GATE DRIVER CLOCK PULSE CPWR CPU WRITE ENABLE CS CHIP SELECT CSYNCIN COMPOSITE SYNC IN CSYNCOUT COMPOSITE SYNC OUT |
| D | DACCK D/A CONVERTER CLOCK DEEMP DEEMPHASIS BIT ON/OFF DEMPH DEEMPHASIS SWITCHING DIG0~UP FL DIGIT OUTPUT DIN DATA INPUT DMSRCK DM SERIAL DATA READ CLOCK DMUTE DIGITAL MUTE CONTROL |

| INITIAL/LOGO | ABBREVIATIONS | |
|--------------|--|---|
| | DO DOUT0~UP DRF DRPOUT DREQ DRESP DSC DSLF DVD | DROP OUT DATA OUTPUT DATA SLICE RF (BIAS) DROP OUT SIGNAL DATA REQUEST DATA RESPONSE DIGITAL SERVO CONTROLLER DATA SLICE LOOP FILTER DIGITAL VIDEO DISC |
| E | EC ECR ENCSEL ETMCLK ETSCCLK | 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 OEH OEV 1, 2 OFTR OSCI OSCO | OPTICAL DISC CONTROLLER SOURCE DRIVER OUTPUT ENABLE GATE DRIVER OUTPUT ENABLE OFF TRACKING OSCILLATOR INPUT OSCILLATOR OUTPUT |

| INITIAL/LOGO | ABBREVIATIONS | |
|--------------|---|---|
| | OSD | 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 WAVE MOTOR DRIVE A PULSE WAVE MOTOR OUT A, B |
| 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 SQCX SRDATA SRMADR SRMDT0~7 SS STAT STCLK STD0~UP STENABLE STH STSEL STV | SERIAL DATA INPUT SERIAL DATA OUTPUT SERIAL CLOCK SERIAL DATA CLOCK AUDIO SERIAL CLOCK RECEIVER SERIAL CLOCK SERIAL CLOCK SERIAL DATA FL SEGMENT OUTPUT SELECT CLOCK SERIAL PORT 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 SUB CODE Q 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 SOURCE START PULSE STREAM DATA POLARITY SELECT GATE DRIVER SCAN START PULSE |

| INITIAL/LOGO | ABBREVIATIONS |
|--------------|---|
| | STVALID STREAM DATA VALIDITY SUBC SUB CODE SERIAL SBCK SUB CODE CLOCK SUBQ SUB CODE Q DATA SYSCLK SYSTEM CLOCK |
| T | TE TRACKING ERROR TIBAL BALANCE CONTROL TID BALANCE OUTPUT 1 TIN BALANCE INPUT TIP BALANCE INPUT TIS BALANCE OUTPUT 2 TPSN OP AMP INPUT TPSO OP AMP OUTPUT TPSP OP AMP INVERTED INPUT TRCRS TRACK CROSS SIGNAL TRON TRACKING ON TRSON TRAVERSE SERVO ON |
| V | VBLANK V BLANKING VCC COLLECTOR POWER SUPPLY VOLTAGE VDCONT VIDEO CD CONTROL (TRACKING BALANCE) VDD DRAIN POWER SUPPLY VOLTAGE VFB VIDEO FEED BACK VREF VOLTAGE REFERENCE VSS SOURCE POWER SUPPLY VOLTAGE |
| W | WAIT BUS CYCLE WAIT WDCK WORD CLOCK WEH WRITE ENABLE HIGH WSR 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 XH INTERRUPT REQUEST 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 X V-DEC CHIP SELECT XVDS X V-DEC CONTROL BUS STROBE XVSYNCO X VERTICAL SYNC OUTPUT |

S7. Replacement Parts List

- Note: 1.* Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark \triangle have the special characteristics for safety.
When replacing any of these components, use only the same type.
3. Unless otherwise specified,
All resistors are in OHMS, K=1,000 OHMS. All capacitors are in MICRO-FARADS (uf), P=uuF.
4. 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.

E.S.D. standards for Electrostatically Sensitive Devices, refer to “PREVENTION OF ELECTROSTATIC DISCHARGE (ESD) TO ELECTROSTATICALLY SENSITIVE (ES) DEVICES” section.

DMP-BD30PP-K

| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks | Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---------|---------------|-------------------------|-----|---------|---------|--------------|-------------------------|-----|---------|
| ## | RFKB73152A | AV OUT P.C.B. | | (RTL) | | | | | |
| C3019 | ECJ1XB1C104K | 16V 0.1U | 1 | | LB3002 | ERJ3GEY0R00 | 1/10W 0 | 1 | |
| C3020 | F2A0J470A831 | 6.3V 47U | 1 | | LB3003 | ERJ3GEY0R00 | 1/10W 0 | 1 | |
| C3021 | ECJ1XB1C104K | 16V 0.1U | 1 | | LB3004 | ERJ3GEY0R00 | 1/10W 0 | 1 | |
| C3022 | ECJ1VB0J105K | 6.3V 1U | 1 | | LB3005 | ERJ3GEY0R00 | 1/10W 0 | 1 | |
| C3023 | ECJ1VB0J105K | 6.3V 1U | 1 | | LB3006 | ERJ3GEY0R00 | 1/10W 0 | 1 | |
| C3024 | ECJ1VB1H103K | 50V 0.01U | 1 | | LB3007 | ERJ3GEY0R00 | 1/10W 0 | 1 | |
| C3025 | ECJ1XB1C104K | 16V 0.1U | 1 | | LB3401 | VLP0319A121T | COIL | 1 | |
| C3026 | ECJ1XB1C104K | 16V 0.1U | 1 | | | | | | |
| C3027 | ECEA0JKS220 | 6.3V 22U | 1 | | P3001 | K1KY23AA0606 | CONNECTOR(23P) | 1 | |
| C3029 | ECJ1XB1C104K | 16V 0.1U | 1 | | P4001 | K1KY23AA0606 | CONNECTOR(23P) | 1 | |
| C3030 | F2A0J470A831 | 6.3V 47U | 1 | | | | | | |
| C3032 | ECJ1VB1H103K | 50V 0.01U | 1 | | Q3401 | B1ABDF000033 | TRANSISTOR | 1 | |
| C3033 | ECJ1VB1H103K | 50V 0.01U | 1 | | Q4002 | B1ABDF000026 | TRANSISTOR | 1 | |
| C3034 | ECJ1VB1H103K | 50V 0.01U | 1 | | Q4004 | 2SD1862QRTV6 | TRANSISTOR | 1 | |
| C3035 | ECJ1VB1H103K | 50V 0.01U | 1 | | Q4005 | 2SB1240PRTV2 | TRANSISTOR | 1 | |
| C3036 | ECJ1VB1H103K | 50V 0.01U | 1 | | Q4006 | B1ABDF000026 | TRANSISTOR | 1 | |
| C3037 | F2A0J102A247 | 6.3V 1000U | 1 | | Q4007 | B1ABDF000026 | TRANSISTOR | 1 | |
| C3038 | F2A0J102A247 | 6.3V 1000U | 1 | | Q4008 | B1ABDF000026 | TRANSISTOR | 1 | |
| C3039 | F2A0J102A247 | 6.3V 1000U | 1 | | Q4009 | B1ABDF000026 | TRANSISTOR | 1 | |
| C3040 | F2A0J102A247 | 6.3V 1000U | 1 | | Q4012 | B1ABDF000026 | TRANSISTOR | 1 | |
| C3042 | F2A0J102A247 | 6.3V 1000U | 1 | | Q4013 | B1ABDF000026 | TRANSISTOR | 1 | |
| C3101 | ECJ1VB0J105K | 6.3V 1U | 1 | | Q4014 | B1ABDF000026 | TRANSISTOR | 1 | |
| C3104 | ECJ1VB1H103K | 50V 0.01U | 1 | | Q4015 | B1ABDF000026 | TRANSISTOR | 1 | |
| C3105 | ECEA0JKS220 | 6.3V 22U | 1 | | | | | | |
| C3401 | F2A1E470A205 | 25V 47U | 1 | | QR3006 | B1GBCFLL0042 | TRANSISTOR | 1 | |
| C3405 | F2A1E470A205 | 25V 47U | 1 | | QR3008 | B1GBCFLL0042 | TRANSISTOR | 1 | |
| C3406 | F2A0J470A599 | 6.3V 47U | 1 | | QR4001 | XN0431100L | TRANSISTOR | 1 | |
| C3407 | ECJ1XB1C104K | 16V 0.1U | 1 | | QR4002 | B1GDCFJJ0037 | TRANSISTOR | 1 | |
| C3601 | ECJ1XB1C104K | 16V 0.1U | 1 | | QR4003 | XN0431100L | TRANSISTOR | 1 | |
| C3602 | ECJ1VC1H150J | 50V 15P | 1 | | QR4004 | XN0431100L | TRANSISTOR | 1 | |
| C3603 | ECJ1VC1H150J | 50V 15P | 1 | | QR4005 | B1GBCFJA0033 | TRANSISTOR | 1 | |
| C3815 | ECJ1VB1H103K | 50V 0.01U | 1 | | | | | | |
| C4001 | F2A1E221A205 | 25V 220U | 1 | | R3011 | D0GB473JA057 | 1/10W 47K | 1 | |
| C4002 | ECJ1XB1C104K | 16V 0.1U | 1 | | R3013 | ERJ3GEYJ101 | 1/10W 100 | 1 | |
| C4004 | ECJ1XB1C104K | 16V 0.1U | 1 | | R3016 | D0GB103JA057 | 1/10W 10K | 1 | |
| C4005 | F2A1A102A206 | 10V 1000U | 1 | | R3017 | ERJ3GEY0R00 | 1/10W 0 | 1 | |
| C4007 | ECJ1XB1C104K | 16V 0.1U | 1 | | R3018 | ERJ3GEY0R00 | 1/10W 0 | 1 | |
| C4008 | F2A1H221A236 | 50V 220U | 1 | | R3019 | ERJ3GEY0R00 | 1/10W 0 | 1 | |
| C4009 | F2A1H221A236 | 50V 220U | 1 | | R3025 | D0GB103JA057 | 1/10W 10K | 1 | |
| C4011 | F2A1V221A082 | 35V 220U | 1 | | R3032 | ERJ3EKF75R0 | 1/10W 75 | 1 | |
| C4017 | F2A1V221A082 | 35V 220U | 1 | | R3033 | ERJ3EKF75R0 | 1/10W 75 | 1 | |
| C4018 | F2A1V221A082 | 35V 220U | 1 | | R3034 | ERJ3EKF75R0 | 1/10W 75 | 1 | |
| C4029 | F2A1V221A082 | 35V 220U | 1 | | R3035 | ERJ3EKF75R0 | 1/10W 75 | 1 | |
| C4031 | F2A1V221A082 | 35V 220U | 1 | | R3036 | ERJ3EKF75R0 | 1/10W 75 | 1 | |
| C4032 | F2A1E470A205 | 25V 47U | 1 | | R3037 | ERJ3EKF75R0 | 1/10W 75 | 1 | |
| C4033 | F2A1E470A205 | 25V 47U | 1 | | R3401 | D0GB102JA057 | 1/10W 1K | 1 | |
| C4035 | F2A1E470A205 | 25V 47U | 1 | | R3402 | D0GB102JA057 | 1/10W 1K | 1 | |
| C4036 | F2A1E470A205 | 25V 47U | 1 | | R3403 | D0GB102JA057 | 1/10W 1K | 1 | |
| C4037 | F2A1E470A205 | 25V 47U | 1 | | R3404 | ERJ3GEYJ221 | 1/10W 220 | 1 | |
| C4039 | F2A1E470A205 | 25V 47U | 1 | | R3405 | ERJ3EKF75R0 | 1/10W 75 | 1 | |
| C4040 | F2A1E470A205 | 25V 47U | 1 | | R3406 | D0GB103JA057 | 1/10W 10K | 1 | |
| C4041 | F2A1E470A205 | 25V 47U | 1 | | R3602 | ERJ3GEY0R00 | 1/10W 0 | 1 | |
| C4042 | ECJ1XC1H102J | 50V 1000P | 1 | | R3603 | ERJ3GEY0R00 | 1/10W 0 | 1 | |
| C4043 | ECJ1XC1H102J | 50V 1000P | 1 | | R4001 | ERJ3GEYJ222 | 1/10W 2.2K | 1 | |
| C4044 | ECJ1XC1H102J | 50V 1000P | 1 | | R4002 | D0GB103JA057 | 1/10W 10K | 1 | |
| C4045 | ECJ1XC1H102J | 50V 1000P | 1 | | R4003 | ERJ3GEYJ332 | 1/10W 3.3K | 1 | |
| C4048 | ECJ1XC1H102J | 50V 1000P | 1 | | R4004 | ERJ3GEYJ332 | 1/10W 3.3K | 1 | |
| C4049 | ECJ1XC1H102J | 50V 1000P | 1 | | R4005 | ERJ3GEYJ332 | 1/10W 3.3K | 1 | |
| C4050 | ECJ1XC1H102J | 50V 1000P | 1 | | R4006 | ERJ3GEYJ223 | 1/10W 22K | 1 | |
| C4051 | ECJ1XC1H102J | 50V 1000P | 1 | | R4007 | ERJ3GEYJ272 | 1/10W 2.7K | 1 | |
| IC3005 | C1AB00002822 | IC | 1 | | R4014 | ERJ3GEYJ331 | 1/10W 330 | 1 | |
| IC3101 | C0DBCHD000004 | IC | 1 | | R4015 | ERJ3GEYJ331 | 1/10W 330 | 1 | |
| IC3401 | B3ZAZ0000016 | IC | 1 | | R4020 | D0GB473JA057 | 1/10W 47K | 1 | |
| IC3601 | RFKFM4500E2P | IC | 1 | | R4021 | D0GB473JA057 | 1/10W 47K | 1 | |
| IC4001 | C0CBCDG000006 | IC | 1 | | R4022 | D0GB473JA057 | 1/10W 47K | 1 | |
| JK3001 | K2HA816B0009 | JACK,OUTPUT | 1 | | R4023 | D0GB473JA057 | 1/10W 47K | 1 | |
| JK4002 | K2HA609B0005 | JACK,AUDIO OUT | 1 | | R4026 | JAR0816P821D | 1/16W 820 | 1 | |
| L3002 | G0C220JA0019 | COIL 22UH | 1 | | R4027 | JAR0816P821D | 1/16W 820 | 1 | |
| L3003 | G0C220JA0019 | COIL 22UH | 1 | | R4028 | JAR0816P821D | 1/16W 820 | 1 | |
| | | | | | R4029 | JAR0816P821D | 1/16W 820 | 1 | |
| | | | | | R4032 | D0GB473JA057 | 1/10W 47K | 1 | |
| | | | | | R4033 | D0GB473JA057 | 1/10W 47K | 1 | |
| | | | | | R4034 | D0GB473JA057 | 1/10W 47K | 1 | |
| | | | | | R4035 | D0GB473JA057 | 1/10W 47K | 1 | |

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| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks | Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---------|--------------|-------------------------|-----|---------|---------|--------------|-------------------------|-----|---------|
| R4036 | ERJ3GEYJ821 | 1/10W 820 | 1 | | C1143 | F2A1A101A389 | 10V 100U | 1 | |
| R4037 | ERJ3GEYJ821 | 1/10W 820 | 1 | | C1146 | ECJ1VB1H103K | 50V 0.01U | 1 | |
| R4038 | ERJ3GEYJ821 | 1/10W 820 | 1 | | C1150 | F2A1A6810022 | 10V 680U | 1 | |
| R4039 | ERJ3GEYJ821 | 1/10W 820 | 1 | | C1151 | ECJ1XB1C104K | 16V 0.1U | 1 | |
| R4042 | D0HD821ZA002 | 1/10W 820 | 1 | | C1152 | F2A1V2210049 | 35V 220U | 1 | |
| R4043 | D0HD821ZA002 | 1/10W 820 | 1 | | C1153 | ECJ1XB1C104K | 16V 0.1U | 1 | |
| R4044 | D0HD821ZA002 | 1/10W 820 | 1 | | C1154 | F2A1E221A205 | 25V 220U | 1 | |
| R4045 | D0HD821ZA002 | 1/10W 820 | 1 | | C1651 | ECJ1VB1A105K | 10V 1U | 1 | |
| R4046 | ERJ3GEYJ821 | 1/10W 820 | 1 | | C1652 | ECJ1VB1A105K | 10V 1U | 1 | |
| R4047 | ERJ3GEYJ821 | 1/10W 820 | 1 | | C1653 | ECJ1VB1H103K | 50V 0.01U | 1 | |
| R4048 | ERJ3GEYJ821 | 1/10W 820 | 1 | | C1657 | ECJ1VB0J105K | 6.3V 1U | 1 | |
| R4049 | ERJ3GEYJ821 | 1/10W 820 | 1 | | C1658 | ECJ1VB1H103K | 50V 0.01U | 1 | |
| R4052 | ERJ3GEYJ221 | 1/10W 220 | 1 | | C1661 | ECJ1VB1H103K | 50V 0.01U | 1 | |
| R4053 | ERJ3GEYJ221 | 1/10W 220 | 1 | | C1662 | ECJ1VB1A105K | 10V 1U | 1 | |
| R4054 | ERJ3GEYJ221 | 1/10W 220 | 1 | | C1663 | ECJ1VB1A105K | 10V 1U | 1 | |
| R4055 | ERJ3GEYJ221 | 1/10W 220 | 1 | | C6801 | ECJ1VB1H103K | 50V 0.01U | 1 | |
| R4056 | ERJ3GEYJ221 | 1/10W 220 | 1 | | C6805 | ECJ2FB0J106K | 6.3V 10U | 1 | |
| R4057 | ERJ3GEYJ221 | 1/10W 220 | 1 | | C6806 | ECJ2FB0J106K | 6.3V 10U | 1 | |
| R4058 | ERJ3GEYJ221 | 1/10W 220 | 1 | | C6807 | ECJ2FB0J106K | 6.3V 10U | 1 | |
| R4059 | ERJ3GEYJ221 | 1/10W 220 | 1 | | C6809 | ECJ2FB0J106K | 6.3V 10U | 1 | |
| R4060 | ERJ3GEYJ222 | 1/10W 2.2K | 1 | | C7502 | ECJ1XC1H101J | 50V 100P | 1 | |
| W201 | ERJ3GEY0R00 | 1/10W 0 | 1 | | C7503 | ECJ1VB1H103K | 50V 0.01U | 1 | |
| W202 | ERJ3GEY0R00 | 1/10W 0 | 1 | | C7504 | ECJ1VB1H103K | 50V 0.01U | 1 | |
| W203 | ERJ3GEY0R00 | 1/10W 0 | 1 | | C7505 | ECJ1VB1H103K | 50V 0.01U | 1 | |
| W204 | ERJ3GEY0R00 | 1/10W 0 | 1 | | C7506 | ECJ1VB1H103K | 50V 0.01U | 1 | |
| W205 | ERJ3GEY0R00 | 1/10W 0 | 1 | | C7507 | ECJ1VB1H103K | 50V 0.01U | 1 | |
| W206 | ERJ6GEY0R00V | 1/8W 0 | 1 | | C7509 | ECJ1VB1H103K | 50V 0.01U | 1 | |
| W207 | ERJ3GEY0R00 | 1/10W 0 | 1 | | C7510 | ECJ1VB1H103K | 50V 0.01U | 1 | |
| W208 | ERJ6GEY0R00V | 1/8W 0 | 1 | | C7511 | ECJ1XB1C104K | 16V 0.1U | 1 | |
| W209 | ERJ3GEY0R00 | 1/10W 0 | 1 | | C7512 | ECJ1VC1H120J | 50V 12P | 1 | |
| W210 | ERJ3GEY0R00 | 1/10W 0 | 1 | | C7513 | ECJ1VC1H150J | 50V 15P | 1 | |
| W211 | ERJ3GEY0R00 | 1/10W 0 | 1 | | C7516 | ECJ1VB1H103K | 50V 0.01U | 1 | |
| W212 | ERJ3GEY0R00 | 1/10W 0 | 1 | | C7559 | ECJ1VB1A105K | 10V 1U | 1 | |
| W213 | ERJ3GEY0R00 | 1/10W 0 | 1 | | C7560 | ECJ1VB1H103K | 50V 0.01U | 1 | |
| W214 | ERJ3GEY0R00 | 1/10W 0 | 1 | | C7561 | ECJ1VF1C104Z | 16V 0.1U | 1 | |
| ZJ3001 | K9ZZ00001279 | EARTH PLATE | 1 | | C7562 | ECJ1XB1C104K | 16V 0.1U | 1 | |
| ZJ3002 | K9ZZ00001279 | EARTH PLATE | 1 | | C7563 | ECJ1XB1C104K | 16V 0.1U | 1 | |
| | | | | | C7564 | ECJ1XB1C104K | 16V 0.1U | 1 | |
| ## | VEP71126A | POWER P.C.B. | | (RTL) | D1006 | B0EDKT000009 | DIODE | 1 | |
| ## | VEP71126B | POWER P.C.B. | | (RTL) | D1021 | MAZ73000BC | DIODE | 1 | |
| △ C1001 | ECQU2A683MLC | 100V 0.068U | 1 | | D1022 | MAZJ11100L | DIODE | 1 | |
| △ C1005 | F1B2G1020002 | 400V 1000P | 1 | | D1023 | MAZ73000BC | DIODE | 1 | |
| △ C1006 | F1B2G1020002 | 400V 1000P | 1 | | D1025 | MA4150NMTA | DIODE | 1 | |
| △ C1007 | ECQU2A223MLC | 100V 0.022U | 1 | | D1026 | MA165TA5 | DIODE | 1 | |
| C1014 | F2B2E1510004 | 250V 150U | 1 | | D1027 | BOHAGM000006 | DIODE | 1 | |
| △ C1018 | F1B2G1020002 | 400V 1000P | 1 | | D1028 | MAZJ11100L | DIODE | 1 | |
| C1022 | F1B3A2720001 | 1KV 2700P | 1 | | D1029 | MA4120-MTA | DIODE | 1 | |
| C1023 | ECJ1VC1H471J | 50V 470P | 1 | | D1107 | BOAADM000003 | DIODE | 1 | |
| C1024 | ECJ1XC1H101J | 50V 100P | 1 | | D1108 | B0JAME000025 | DIODE | 1 | |
| C1025 | F2A1V6800002 | 35V 68U | 1 | | D1110 | B0JBSG000010 | DIODE | 1 | |
| C1026 | ECJ1VB1H222K | 50V 2200P | 1 | | D1113 | MAZ42000HF | DIODE | 1 | |
| C1113 | ECJ1VB1C105K | 16V 1U | 1 | | D1122 | B0JCPD000021 | DIODE | 1 | |
| C1114 | ECJ1XB1C104K | 16V 0.1U | 1 | | D1123 | B0JCPD000021 | DIODE | 1 | |
| C1117 | ECJ1VB1C105K | 16V 1U | 1 | | D1125 | 11EQS10TA1 | DIODE | 1 | |
| C1118 | F2A1C1820005 | 16V 1800U | 1 | | D1126 | MA4120H | DIODE | 1 | |
| C1120 | ECJ1VB1H103K | 50V 0.01U | 1 | | D1651 | B0EAKL000062 | DIODE | 1 | |
| C1121 | F2A1C1820005 | 16V 1800U | 1 | | D7510 | B0ADCH000007 | DIODE | 1 | |
| C1122 | F2A0J6800003 | 6.3V 68P | 1 | | D7520 | MA4180-H | DIODE | 1 | |
| C1123 | F2A1H1010042 | 50V 100U | 1 | | △ F1001 | K5D202BK0005 | FUSE | 1 | |
| C1124 | ECJ1XB1C104K | 16V 0.1U | 1 | | FL6901 | J0MAB0000148 | FILTER | 1 | |
| C1125 | F2A1C102A236 | 16V 1000U | 1 | | FL6902 | J0MAB0000148 | FILTER | 1 | |
| C1126 | ECJ1VF1H104Z | 50V 0.1U | 1 | | FL6903 | J0MAB0000148 | FILTER | 1 | |
| C1127 | F2A1H100A234 | 50V 10U | 1 | | FL6905 | J0MAB0000148 | FILTER | 1 | |
| C1128 | ECJ1VB1A105K | 10V 1U | 1 | | FL6906 | J0MAB0000148 | FILTER | 1 | |
| C1132 | F2A1E1010099 | 25V 100P | 1 | | IC1021 | C0DACZH00035 | IC | 1 | |
| C1133 | F2A1C4710079 | 16V 470P | 1 | | IC1101 | C0DAEYY00022 | IC | 1 | |
| C1135 | ECJ1XB1C104K | 16V 0.1U | 1 | | IC1102 | C0CBCAD00090 | IC | 1 | |
| C1136 | ECJ1XB1C104K | 16V 0.1U | 1 | | IC1103 | C0DBAZZ00132 | IC | 1 | |
| C1138 | ECJ1XB1C104K | 16V 0.1U | 1 | | IC1104 | C0DAEYH00002 | IC | 1 | |
| C1140 | ECJ1XC1H181J | 50V 180P | 1 | | IC1651 | C0CBCBD00008 | IC | 1 | |
| C1141 | F2A1A470A388 | 10V 47U | 1 | | IC1653 | C0CBCYY00001 | IC | 1 | |

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| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks | Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|----------|---------------|-------------------------|--------|---------|---------|--------------|-------------------------|-----|---------|
| IC7501 | MN67793KD | IC | 1 | | R1023 | D0GB103JA057 | 1/10W 10K | 1 | |
| IC7503 | COEBK0000206 | IC | 1 | | R1024 | ERJ3RBD153 | 1/16W 15K | 1 | |
| IC7504 | COABBA000168 | IC | 1 | | R1025 | ERJ3RBD102 | 1/16W 1K | 1 | |
| IC7512 | COEBD0000239 | IC | 1 | | R1026 | ERDS2FJ151 | 1/4W 150 | 1 | |
| ⚠ IP1101 | K5H102Z00006 | IC PROTECTOR | 1 | | R1027 | ERJ3GEYJ104 | 1/10W 100K | 1 | |
| ⚠ IP1102 | K5H102Z00006 | IC PROTECTOR | 1 | | R1028 | ERJ3GEYJ100 | 1/10W 10 | 1 | |
| ⚠ IP1103 | K5H302Z00003 | IC PROTECTOR | 1 | | R1029 | ERJ3GEYJ100 | 1/10W 10 | 1 | |
| ⚠ IP1105 | K5H172Z00003 | IC PROTECTOR | 1 | | R1030 | ERJ3GEYJ272 | 1/10W 2.7K | 1 | |
| ⚠ IP7502 | K5H751Z00003 | IC PROTECTOR | 1 | | R1032 | ERJ3RBD222 | 1/16W 2.2K | 1 | |
| | | | | | R1033 | ERA3YED332 | 1/16W 3.3K | 1 | |
| | | | | | R1034 | ERJ3GEYJ104 | 1/10W 100K | 1 | |
| ⚠ L1001 | G0B100E00002 | COIL 10UH | 1 | | R1104 | ERJ3GEYJ472 | 1/10W 4.7K | 1 | |
| ⚠ L1002 | G0B100E00002 | COIL 10UH | 1 | | R1111 | D0GB102JA057 | 1/10W 1K | 1 | |
| L1103 | G0A100H00025 | COIL 10UH | 1 | | R1112 | ERJ3GEYJ222 | 1/10W 2.2K | 1 | |
| L1104 | G0A100HA0023 | COIL 10UH | 1 | | R1113 | D0GB103JA057 | 1/10W 10K | 1 | |
| L1105 | G0A150ZA0041 | COIL 15UH | 1 | | R1115 | ERJ3RBD242 | 1/16W 2.4K | 1 | |
| L1107 | G0C330KA0065 | COIL 33UH | 1 | | R1116 | ERJ3GEYJ222 | 1/10W 2.2K | 1 | |
| | | | | | R1117 | ERDS2FJ101 | 1/4W 100 | 1 | |
| LB1103 | J0JHC0000048 | FILTER | 1 | | R1118 | ERJ3RBD301 | 1/16W 300 | 1 | |
| LB1104 | J0JHC0000048 | FILTER | 1 | | R1119 | ERJ3RBD912 | 1/16W 9.1K | 1 | |
| LB1107 | J0JHC0000048 | FILTER | 1 | | R1120 | ERJ3GEYJ472 | 1/10W 4.7K | 1 | |
| LB1601 | ERJ6GEY0R00V | 1/8W 0 | 1 | | R1121 | ERJ3GEYJ223 | 1/10W 22K | 1 | |
| LB1602 | ERJ6GEY0R00V | 1/8W 0 | 1 | | R1123 | ERJ3GEYJ223 | 1/10W 22K | 1 | |
| LB6801 | J0JHC0000032 | COIL | 1 | | R1129 | ERJ3EKF5102 | 1/10W 51K | 1 | |
| LB6802 | J0JCC0000185 | COIL | 1 | | R1130 | D1BFR0270001 | 1/2W 0.027 | 1 | |
| LB6803 | J0JGC0000020 | COIL | 1 | | R1136 | ERJ3RBD152 | 1/16W 1.5K | 1 | |
| LB6804 | J0JCC0000185 | COIL | 1 | | R1137 | ERJ3RBD393 | 1/16W 39K | 1 | |
| LB6805 | J0JCC0000185 | COIL | 1 | | R1138 | ERJ3RBD113 | 1/16W 11K | 1 | |
| LB7501 | J0JCC0000185 | COIL | 1 | | R1141 | ERJ3RBD222 | 1/16W 2.2K | 1 | |
| LB7502 | J0JGC0000020 | COIL | 1 | | R1142 | ERJ3RBD822 | 1/10W 8.2K | 1 | |
| LB7503 | J0JGC0000020 | COIL | 1 | | R1143 | ERJ3RBD272 | 1/16W 2.7K | 1 | |
| LB7504 | J0JGC0000020 | COIL | 1 | | R1144 | ERJ6GEY0R00V | 1/8W 0 | 1 | |
| LB7505 | J0JCC0000185 | COIL | 1 | | R1146 | ERJ6GEY0R00V | 1/8W 0 | 1 | |
| LB7506 | J0JCC0000185 | COIL | 1 | | R1150 | ERJ6GEY0R00V | 1/8W 0 | 1 | |
| LB7507 | J0JCC0000185 | COIL | 1 | | R1151 | ERJ3GEYJ221 | 1/10W 220 | 1 | |
| LB7508 | J0JCC0000185 | COIL | 1 | | R1152 | ERJ6GEY0R00V | 1/8W 0 | 1 | |
| LB7509 | J0JCC0000185 | COIL | 1 | | R1162 | ERDS2FJ821 | 1/4W 820 | 1 | |
| LB7510 | J0JCC0000185 | COIL | 1 | | R1163 | ERDS2FJ821 | 1/4W 820 | 1 | |
| LB7511 | J0JCC0000185 | COIL | 1 | | R1164 | ERDS2FJ821 | 1/4W 820 | 1 | |
| LB7512 | J0JCC0000185 | COIL | 1 | | R1165 | ERDS2FJ821 | 1/4W 820 | 1 | |
| LB7513 | J0JGC0000020 | COIL | 1 | | R1166 | ERJ3GEYJ821 | 1/10W 820 | 1 | |
| LB7514 | J0JGC0000020 | COIL | 1 | | R1651 | ERJ3GEYJ823 | 1/10W 82K | 1 | |
| | | | | | R1654 | ERJ6GEYJ101V | 1/8W 100 | 1 | |
| ⚠ P1001 | K2AA2H000007 | AC INLET | 1 (PL) | | R1655 | ERJ3GEYJ472 | 1/10W 4.7K | 1 | |
| ⚠ P1001 | K2AB2H000004 | AC INLET | 1 (PP) | | R6801 | J0JCC0000185 | COIL | 1 | |
| P1102 | K1KY09AA0606 | CONNECTOR(9P) | 1 | | R6804 | ERJ3GEYJ223 | 1/10W 22K | 1 | |
| P1601 | K1KA04AA0301 | CONNECTOR(4P) | 1 | | R6805 | D0GB123JA057 | 1/10W 12K | 1 | |
| P6801 | K1NA12B00004 | CONNECTOR(12P) | 1 | | R6807 | ERJ3GEYJ223 | 1/10W 22K | 1 | |
| P7501 | K1KB18B00017 | CONNECTOR(18P) | 1 | | R6808 | D0GB2R2JA057 | 1/10W 2.2 | 1 | |
| P7503 | K1KY23AA0606 | CONNECTOR(23P) | 1 | | R6809 | D0GB2R2JA057 | 1/10W 2.2 | 1 | |
| P7504 | K1KY23AA0606 | CONNECTOR(23P) | 1 | | R6810 | D0GB2R2JA057 | 1/10W 2.2 | 1 | |
| | | | | | R6811 | D0GB2R2JA057 | 1/10W 2.2 | 1 | |
| PK6901 | K1MR09AA0015 | CONNECTOR(9P) | 1 | | R6812 | D0GB2R2JA057 | 1/10W 2.2 | 1 | |
| PK6902 | K1MR10AA0015 | CONNECTOR(10P) | 1 | | R6813 | D0GB123JA057 | 1/10W 12K | 1 | |
| | | | | | R6814 | D0GB123JA057 | 1/10W 12K | 1 | |
| Q1021 | 2SD0601ARL | TRANSISTOR | 1 | | R6815 | D0GB123JA057 | 1/10W 12K | 1 | |
| ⚠ Q1022 | B3PBA0000454 | TRANSISTOR | 1 | | R6816 | D0GB123JA057 | 1/10W 12K | 1 | |
| ⚠ Q1023 | B3PBA0000454 | TRANSISTOR | 1 | | R6902 | ERJ3GEYJ820 | 1/10W 82 | 1 | |
| Q1101 | 2SA1309AR | TRANSISTOR | 1 | | R7502 | ERJ3GEYJ101 | 1/10W 100 | 1 | |
| Q1102 | B1DHED000008 | TRANSISTOR | 1 | | R7503 | D0GB473JA057 | 1/10W 47K | 1 | |
| Q1104 | B1DHED000008 | TRANSISTOR | 1 | | R7515 | D0GB103JA057 | 1/10W 10K | 1 | |
| Q1106 | 2SB1320A-R | TRANSISTOR | 1 | | R7516 | D0GB103JA057 | 1/10W 10K | 1 | |
| Q1107 | 2SC3311AS | TRANSISTOR | 1 | | R7517 | D0GB103JA057 | 1/10W 10K | 1 | |
| Q1651 | B1ABDF000026 | TRANSISTOR | 1 | | R7518 | D0GB103JA057 | 1/10W 10K | 1 | |
| Q7506 | B1ABGC000011 | TRANSISTOR | 1 | | R7519 | D0GB103JA057 | 1/10W 10K | 1 | |
| Q7509 | B1ABMF000020 | TRANSISTOR | 1 | | R7520 | ERJ3GEYJ104 | 1/10W 100K | 1 | |
| | | | | | R7525 | ERJ3GEYJ472 | 1/10W 4.7K | 1 | |
| QR1101 | B1GBCFLL0042 | TRANSISTOR | 1 | | R7526 | D0GB473JA057 | 1/10W 47K | 1 | |
| QR1102 | B1GBCFNN0041 | TRANSISTOR | 1 | | R7528 | ERJ3GEY0R00 | 1/10W 0 | 1 | |
| QR1105 | B1GBCFLL0042 | TRANSISTOR | 1 | | R7530 | D0GB473JA057 | 1/10W 47K | 1 | |
| QR1651 | B1GBCFNN0041 | TRANSISTOR | 1 | | R7531 | ERJ3GEYJ101 | 1/10W 100 | 1 | |
| QR1652 | B1GDGFCG0028 | TRANSISTOR | 1 | | R7534 | D0GB103JA057 | 1/10W 10K | 1 | |
| QR7502 | B1GDGCFNN0024 | TRANSISTOR | 1 | | R7536 | ERJ3GEYJ101 | 1/10W 100 | 1 | |
| | | | | | R7537 | ERJ3GEYJ101 | 1/10W 100 | 1 | |
| R1022 | ERX2SZJR10 | 2W 10 | 1 | | R7539 | ERJ3GEYJ101 | 1/10W 100 | 1 | |

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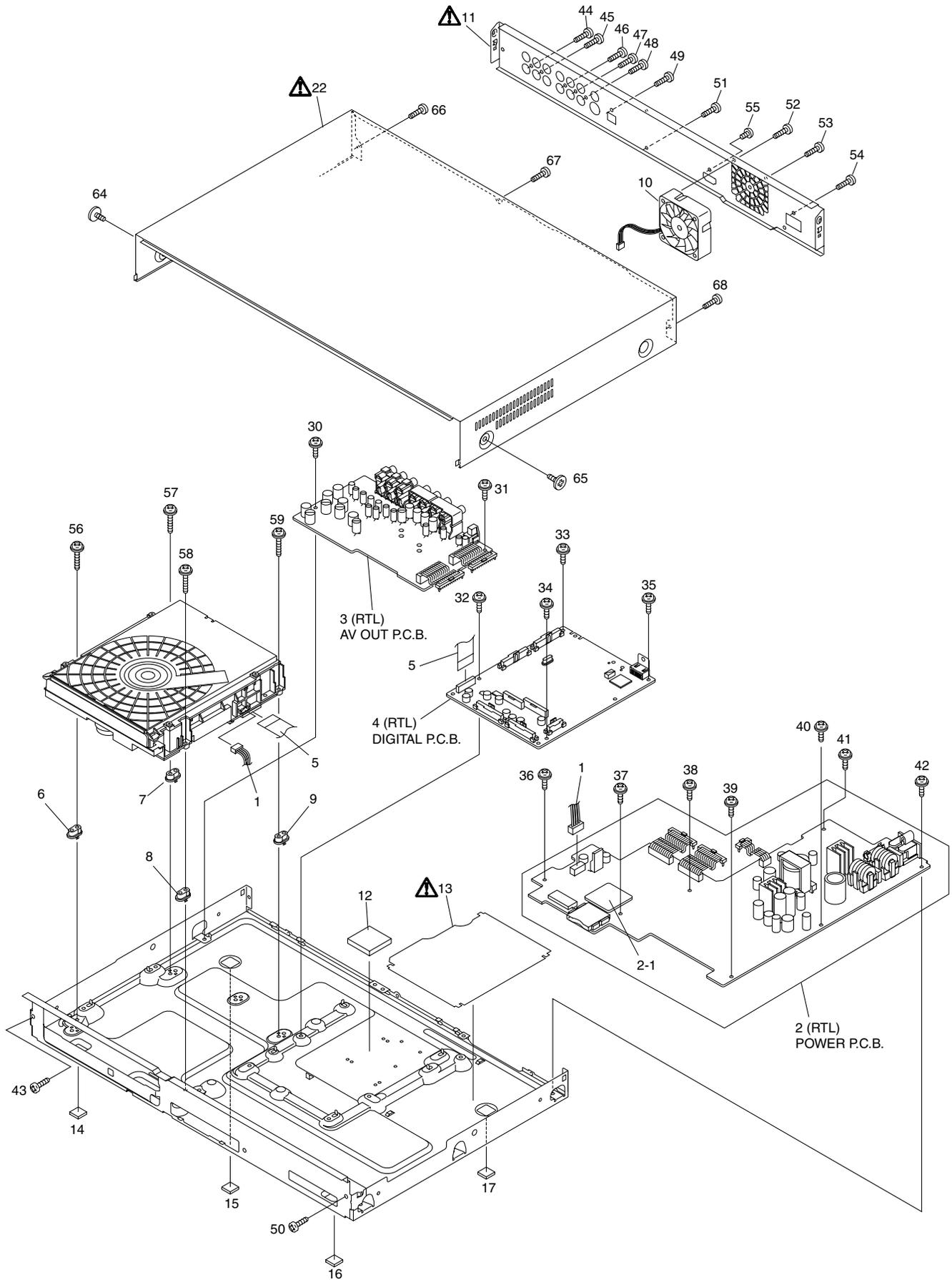
| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks | Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|----------|--------------|-------------------------|-----|---------|---------|--------------|-------------------------|-----|-----------|
| R7540 | ERJ3GEYJ101 | 1/10W 100 | 1 | | ZA1022 | XYN3+J8FJ | SCREW | 1 | |
| R7541 | ERJ3GEYJ101 | 1/10W 100 | 1 | | ZA1110 | VSC5603 | HEAT SINK | 1 | |
| R7547 | ERJ3GEYJ101 | 1/10W 100 | 1 | | ZA1111 | XYN3+J8FJ | SCREW | 1 | |
| R7548 | D0GB103JA057 | 1/10W 10K | 1 | | | | | | |
| R7553 | D0GB103JA057 | 1/10W 10K | 1 | | | | | | |
| R7561 | ERJ3GEYJ101 | 1/10W 100 | 1 | | ## | VEP76165A | FRONT(L)P.C.B. | | (RTL) |
| R7562 | ERJ3GEYJ101 | 1/10W 100 | 1 | | P7001 | K1KA03AA0301 | CONNECTOR(3P) | 1 | |
| R7564 | ERJ3GEYJ101 | 1/10W 100 | 1 | | S7001 | EVQ11A04M | SWITCH,POWER | 1 | |
| R7565 | D0GB103JA057 | 1/10W 10K | 1 | | | | | | |
| R7566 | D0GB103JA057 | 1/10W 10K | 1 | | ## | VEP76166A | FRONT(R)P.C.B. | | (RTL) |
| R7567 | ERJ3GEYJ821 | 1/10W 820 | 1 | | C7202 | ECJ1VF1A105Z | 10V 1U | 1 | |
| R7568 | ERJ3GEYJ303 | 1/10W 30K | 1 | | C7204 | ECJ1XB1C104K | 16V 0.1U | 1 | |
| R7569 | ERJ3RBD822 | 1/10W 8.2K | 1 | | C7205 | ECJ1XB1C104K | 16V 0.1U | 1 | |
| R7570 | D0GB473JA057 | 1/10W 47K | 1 | | C7206 | ECJ1VF1H104Z | 50V 0.1U | 1 | |
| R7575 | ERJ3GEYJ101 | 1/10W 100 | 1 | | D7201 | B3AEA0000099 | LED | 1 | |
| R7577 | D0GB473JA057 | 1/10W 47K | 1 | | DP7201 | A2BD00000183 | DISPLAY TUBE | 1 | |
| R7579 | D0GB473JA057 | 1/10W 47K | 1 | | IC7201 | C0HBB0000057 | IC | 1 | |
| R7582 | ERJ3RBD242 | 1/16W 2.4K | 1 | | IR7201 | B3RAD0000150 | REMOTE SENSOR | 1 | |
| R7587 | ERJ3RBD222 | 1/16W 2.2K | 1 | | LB7201 | J0JCC0000103 | COIL | 1 | |
| R7592 | ERJ3GEYJ101 | 1/10W 100 | 1 | | LB7203 | J0JCC0000103 | COIL | 1 | |
| R7593 | ERJ3GEYJ101 | 1/10W 100 | 1 | | P7201 | K1KA18B00034 | CONNECTOR(18P) | 1 | |
| R7603 | D0GB103JA057 | 1/10W 10K | 1 | | P7202 | K1KA03AA0301 | CONNECTOR(3P) | 1 | |
| R7611 | ERJ3GEYJ101 | 1/10W 100 | 1 | | Q7201 | B1ABDF000033 | TRANSISTOR | 1 | |
| R7612 | ERJ3GEYJ101 | 1/10W 100 | 1 | | R7201 | ERJ3RBD392 | 1/16W 3.9K | 1 | |
| R7613 | ERJ3GEYJ101 | 1/10W 100 | 1 | | R7202 | ERJ3RBD222 | 1/16W 2.2K | 1 | |
| R7614 | ERJ3GEYJ101 | 1/10W 100 | 1 | | R7203 | ERJ6GEYJ301V | 1/8W 300 | 1 | |
| R7615 | ERJ3GEYJ101 | 1/10W 100 | 1 | | R7205 | ERJ3GEYJ332 | 1/10W 3.3K | 1 | |
| R7616 | ERJ3GEYJ101 | 1/10W 100 | 1 | | R7206 | D0GB473JA057 | 1/10W 47K | 1 | |
| R7617 | ERJ3GEYJ101 | 1/10W 100 | 1 | | R7207 | ERJ3GEYJ330 | 1/10W 33 | 1 | |
| R7618 | ERJ3GEYJ101 | 1/10W 100 | 1 | | R7208 | ERJ3GEYJ104 | 1/10W 100K | 1 | |
| R7620 | D0GB103JA057 | 1/10W 10K | 1 | | S7201 | EVQ11A04M | SWITCH,OPEN/CLOSE | 1 | |
| R7621 | ERJ3GEY0R00 | 1/10W 0 | 1 | | S7202 | EVQ11A04M | SWITCH,PLAY | 1 | |
| R7623 | ERJ3GEY0R00 | 1/10W 0 | 1 | | S7203 | EVQ11A04M | SWITCH,SKIP-FWD | 1 | |
| R7625 | ERJ3GEY0R00 | 1/10W 0 | 1 | | S7204 | EVQ11A04M | SWITCH,PAUSE | 1 | |
| R7627 | ERJ3GEYJ223 | 1/10W 22K | 1 | | S7205 | EVQ11A04M | SWITCH,SKIP-REV | 1 | |
| R7628 | ERJ3GEY0R00 | 1/10W 0 | 1 | | S7206 | EVQ11A04M | SWITCH,STOP | 1 | |
| R7629 | ERJ3RBD471 | 1/16W 470 | 1 | | W101 | ERJ3GEY0R00 | 1/10W 0 | 1 | |
| R7631 | ERJ3GEY0R00 | 1/10W 0 | 1 | | W102 | ERJ3GEY0R00 | 1/10W 0 | 1 | |
| R7632 | ERJ3GEY0R00 | 1/10W 0 | 1 | | ZB7201 | RMN0896A | FL HOLDER | 1 | |
| △ T1001 | G4D2A0000289 | TRANSFORMER | 1 | | ## | VEP70237A | SD CONNECTOR BOARD | | |
| △ VA1001 | ERZV05Z471CS | VARISTOR | 1 | | FL6901 | J0MAB0000148 | FILTER | 1 | |
| W81 | ERJ6GEY0R00V | 1/8W 0 | 1 | | FL6902 | J0MAB0000148 | FILTER | 1 | |
| W301 | ERJ6GEY0R00V | 1/8W 0 | 1 | | FL6903 | J0MAB0000148 | FILTER | 1 | |
| W302 | ERJ6GEY0R00V | 1/8W 0 | 1 | | FL6905 | J0MAB0000148 | FILTER | 1 | |
| W303 | ERJ6GEY0R00V | 1/8W 0 | 1 | | FL6906 | J0MAB0000148 | FILTER | 1 | |
| W304 | ERJ3GEY0R00 | 1/10W 0 | 1 | | PK6901 | K1MR09AA0015 | CONNECTOR(9P) | 1 | |
| W305 | ERJ6GEY0R00V | 1/8W 0 | 1 | | PK6902 | K1MR10AA0015 | CONNECTOR(10P) | 1 | |
| W306 | ERJ6GEY0R00V | 1/8W 0 | 1 | | R6902 | ERJ3GEYJ820 | 1/10W 82 | 1 | |
| W307 | ERJ3GEY0R00 | 1/10W 0 | 1 | | ## | | M1 GAISO | | |
| W308 | ERJ3GEY0R00 | 1/10W 0 | 1 | | 1 | VEE1E13 | WIRE WITH CONNECTOR(4P) | 1 | |
| W309 | ERJ3GEY0R00 | 1/10W 0 | 1 | | 2 | VEP71126A | POWER P.C.B. | 1 | (RTL)(PP) |
| W310 | ERJ3GEY0R00 | 1/10W 0 | 1 | | 2-1 | VEP70237A | SD CONNECTOR BOARD | 1 | |
| W311 | ERJ3GEY0R00 | 1/10W 0 | 1 | | | | | | |
| W312 | ERJ3GEY0R00 | 1/10W 0 | 1 | | | | | | |
| W313 | ERJ3GEY0R00 | 1/10W 0 | 1 | | | | | | |
| W314 | ERJ3GEY0R00 | 1/10W 0 | 1 | | | | | | |
| W315 | ERJ6GEY0R00V | 1/8W 0 | 1 | | | | | | |
| W316 | ERJ3GEY0R00 | 1/10W 0 | 1 | | | | | | |
| W317 | ERJ6GEY0R00V | 1/8W 0 | 1 | | | | | | |
| W318 | ERJ6GEY0R00V | 1/8W 0 | 1 | | | | | | |
| W319 | ERJ6GEY0R00V | 1/8W 0 | 1 | | | | | | |
| X7502 | H0D100500018 | CRYSTAL OSCILLATOR | 1 | | | | | | |
| △ ZA1001 | EYF52BCY | FUSE HOLDER | 1 | | | | | | |
| △ ZA1002 | EYF52BCY | FUSE HOLDER | 1 | | | | | | |
| ZA1003 | K9ZZ00001279 | EARTH PLATE | 1 | | | | | | |
| ZA1004 | K9ZZ00001279 | EARTH PLATE | 1 | | | | | | |
| ZA1005 | K9ZZ00001279 | EARTH PLATE | 1 | | | | | | |
| ZA1006 | K9ZZ00001279 | EARTH PLATE | 1 | | | | | | |
| ZA1007 | K9ZZ00001279 | EARTH PLATE | 1 | | | | | | |
| ZA1021 | VSC5603 | HEAT SINK | 1 | | | | | | |

DMP-BD30PP-K
M2 / M3

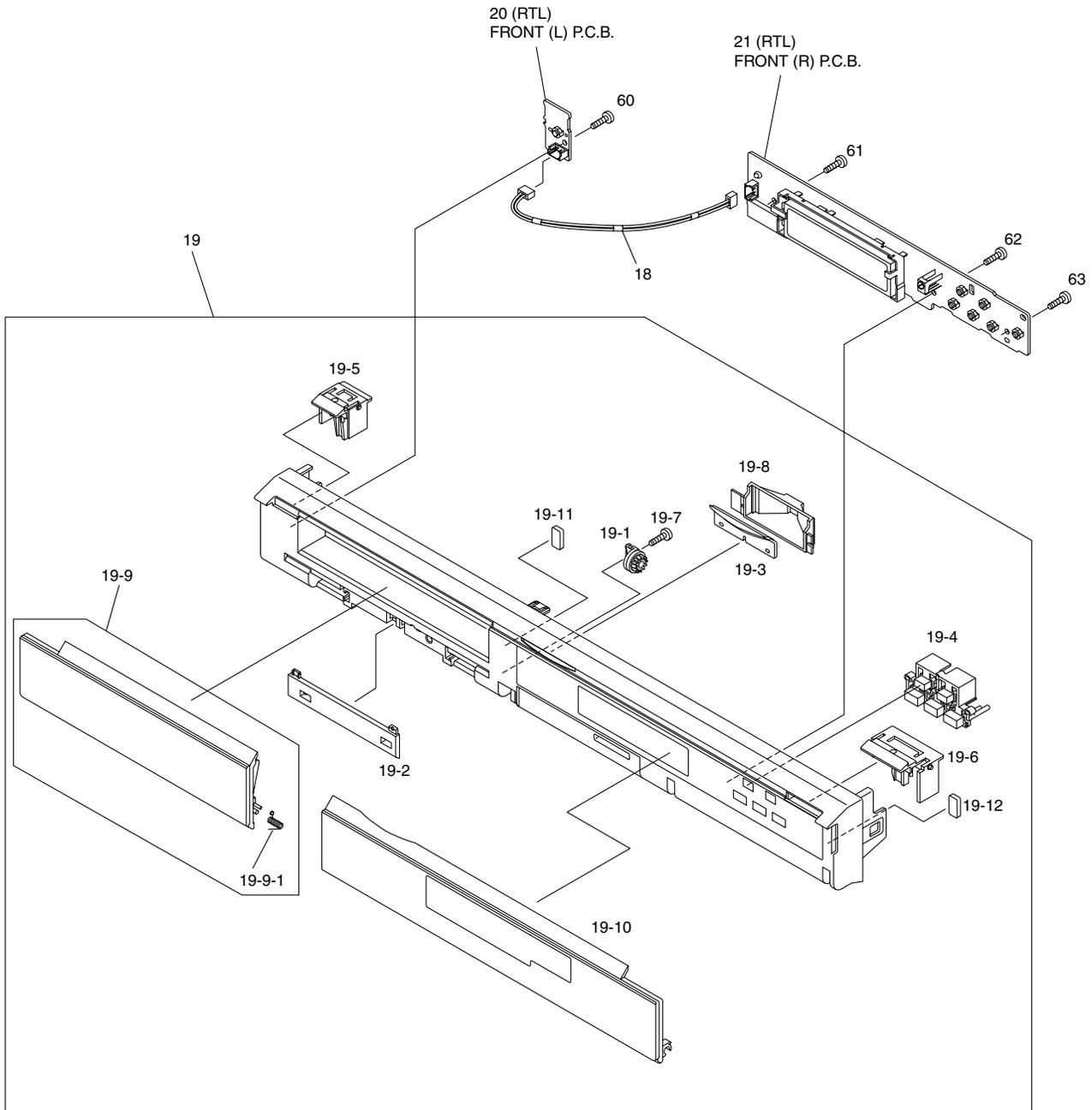
| Ref.No. | Part No. | Part Name & Description | Pcs | Remarks | Ref.No. | Part No. | Part Name & Description | Pcs | Remarks |
|---------|--------------|-------------------------|-----|-----------|---------|--------------|-------------------------|-----|----------|
| 2 | VEP71126B | POWER P.C.B. | 1 | (RTL)(PL) | 60 | RHD26045 | SCREW | 1 | |
| 3 | RFKB73152A | AV OUT P.C.B. | 1 | (RTL) | 61 | RHD26045 | SCREW | 1 | |
| 4 | RFKB76160A | DIGITAL P.C.B. | 1 | (RTL) | 62 | RHD26045 | SCREW | 1 | |
| 5 | VWJ2010 | FFC(40P) | 1 | | 63 | RHD26045 | SCREW | 1 | |
| 6 | RMX0404-1 | DRIVE SPACER | 1 | | | | | | |
| 7 | RMX0404-1 | DRIVE SPACER | 1 | | | | | | |
| 8 | RMX0404-1 | DRIVE SPACER | 1 | | | | | | |
| 9 | RMX0404-1 | DRIVE SPACER | 1 | | | | | | |
| 10 | L6FAJBYG0002 | DC FAN MOTORS | 1 | | | | | | |
| △ 11 | RGR0379C-A2 | REAR PANEL | 1 | (PP) | △ A1 | K2CB2CB00022 | AC CORD | 1 | (PP) |
| △ 11 | RGR0379C-D | REAR PANEL | 1 | (PL) | △ A1 | RJA0019-2K | AC CORD | 1 | (PL) |
| 12 | RSC0824 | RADIATOR SHEET | 1 | | △ A2 | K2DA42E00001 | POWER PLUG ADAPTOR | 1 | (PL) |
| △ 13 | RMZ0926 | BARRIER A | 1 | | A3 | K2KA6BA00003 | AV CABLE | 1 | |
| 14 | RKA0137-K | FOOT RUBBER | 1 | | A4 | XZB15X30A04Z | POLYETHYLENE BAG | 1 | |
| 15 | RKA0137-K | FOOT RUBBER | 1 | | A5 | RPF0378 | POLYETHYLENE BAG | 1 | |
| 16 | RKA0137-K | FOOT RUBBER | 1 | | A6 | RQT9037-Y | OPERATING INSTRUCTIONS | 1 | (PP)(IB) |
| 17 | RKA0137-K | FOOT RUBBER | 1 | | A6 | RQT9042-M | OPERATING INSTRUCTIONS | 1 | (PL)(IA) |
| △ 22 | RKM0585-K | TOP CASE | 1 | | A7 | N2QAYB000184 | REMOTE CONTROL UNITS | 1 | |
| 23 | VXY2001 | BD/DVD DRIVE | 1 | (RTL) | A7-1 | 100300037800 | BATTERY COVER | 1 | |
| 30 | RHD30111-3 | SCREW | 1 | | PC1 | RPG8373 | PACKING CASE | 1 | (PP) |
| 31 | RHD30111-3 | SCREW | 1 | | PC1 | RPG8414 | PACKING CASE | 1 | (PL) |
| 32 | RHD30111-3 | SCREW | 1 | | PC2 | RPN2015 | CUSHION | 1 | |
| 33 | RHD30111-3 | SCREW | 1 | | PC3 | VPF0505 | POLYETHYLENE BAG | 1 | |
| 34 | RHD30111-3 | SCREW | 1 | | | | | | |
| 35 | RHD30111-3 | SCREW | 1 | | | | | | |
| 36 | RHD30111-3 | SCREW | 1 | | | | | | |
| 37 | RHD30111-3 | SCREW | 1 | | | | | | |
| 38 | RHD30111-3 | SCREW | 1 | | | | | | |
| 39 | RHD30111-3 | SCREW | 1 | | | | | | |
| 40 | RHD30111-3 | SCREW | 1 | | | | | | |
| 41 | RHD30111-3 | SCREW | 1 | | | | | | |
| 42 | RHD30111-3 | SCREW | 1 | | | | | | |
| 43 | RHD30119-L | SCREW | 1 | | | | | | |
| 44 | RHD30119-L | SCREW | 1 | | | | | | |
| 45 | RHD30119-L | SCREW | 1 | | | | | | |
| 46 | RHD30119-L | SCREW | 1 | | | | | | |
| 47 | RHD30119-L | SCREW | 1 | | | | | | |
| 48 | RHD30119-L | SCREW | 1 | | | | | | |
| 49 | RHD30119-L | SCREW | 1 | | | | | | |
| 50 | RHD30119-L | SCREW | 1 | | | | | | |
| 51 | RHD30119-L | SCREW | 1 | | | | | | |
| 52 | RHD30119-L | SCREW | 1 | | | | | | |
| 53 | RHD30119-L | SCREW | 1 | | | | | | |
| 54 | RHD30119-L | SCREW | 1 | | | | | | |
| 55 | XSN3+4FJ | SCREW | 1 | | | | | | |
| 56 | RHDC0003-1 | SCREW | 1 | | | | | | |
| 57 | RHDC0003-1 | SCREW | 1 | | | | | | |
| 58 | RHDC0003-1 | SCREW | 1 | | | | | | |
| 59 | RHDC0003-1 | SCREW | 1 | | | | | | |
| 64 | RHD30113-1K | SCREW | 1 | | | | | | |
| 65 | RHD30113-1K | SCREW | 1 | | | | | | |
| 66 | VHD0690-1 | SCREW | 1 | | | | | | |
| 67 | VHD0690-1 | SCREW | 1 | | | | | | |
| 68 | VHD0690-1 | SCREW | 1 | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| ## | | M2 GAISO | | | | | | | |
| | | | | | | | | | |
| 18 | VEE1E02 | WIRE WITH CONNECTOR(3P) | 1 | | | | | | |
| 19 | RYP1409C-K1 | FRONT PANEL ASS'Y1 | 1 | | | | | | |
| 19-1 | RDG0620 | OIL DAMPER | 1 | | | | | | |
| 19-2 | RGK2098-K | HOLD PANEL | 1 | | | | | | |
| 19-3 | RGL0712-Q | SD PANEL LIGHT | 1 | | | | | | |
| 19-4 | RGU2550A-K | PLAY BUTTON | 1 | | | | | | |
| 19-5 | RGU2551A-K | ROWER BUTTON | 1 | | | | | | |
| 19-6 | RGU2552A-K | OPEN/CLOSE BUTTON | 1 | | | | | | |
| 19-7 | RHD26045 | SCREW | 1 | | | | | | |
| 19-8 | RMR1854-W | SD REFLECTOR | 1 | | | | | | |
| 19-9 | RYF0821C-K | TRAY DOOR ASS'Y | 1 | | | | | | |
| 19-9-1 | RMB0875 | BRINDER SPRING | 1 | | | | | | |
| 19-10 | RYF0822C-K | DOOR ASS'Y | 1 | | | | | | |
| 19-11 | VSQ1087-2 | MAGNET | 1 | | | | | | |
| 19-12 | VSQ1087-2 | MAGNET | 1 | | | | | | |
| 20 | VEP76165A | FRONT(L)P.C.B. | 1 | (RTL) | | | | | |
| 21 | VEP76166A | FRONT(R)P.C.B. | 1 | (RTL) | | | | | |

S8. Exploded View

S8.1. Frame and Casing Section (1)



S8.2. Frame and Casing Section (2)



S8.3. Packing Parts and Accessories Section

