

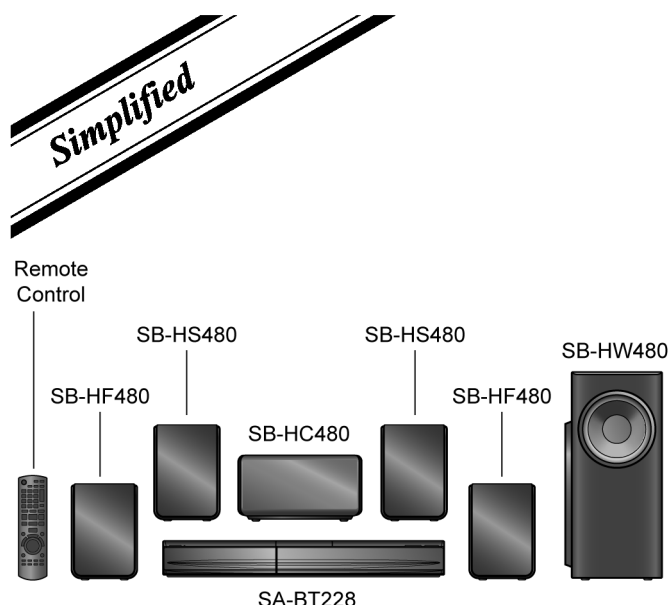
Service Manual

Blu-ray Disc Home Theater Sound System

Model No. **SA-BT228P**

Volume 1

Product Color: (K)...Black Type



Notes: This model is based on SA-BT230/330P/PC-K (Volume 1). Please refer to the original service manual (Order no. PSG1001003CE).

Notes: 1) These model's BD Drive/Main P.C.B.

Module are - RFKNBT230P

2) Please refer to the original service manual for:

- Speaker system SB-PT480P-K, Order No. PSG0912003CE.

Caution:

Pairing of BD Drive and Main P.C.B. as "BD Drive & Main P.C.B. Assembly" have to be replaced together. If either BD Drive or Main P.C.B. is changed, BD Drive unit has to carry out re-adjustment due to alignment data for BD Drive Unit is stored in the Main P.C.B.

⚠ 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.

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by ⚠ in the Schematic Diagrams, Circuit Board 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.

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1 Notes:

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

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

1) The base for this model is SA-BT230/330P/PC-K. You can refer to the original service manual (SA-BT230/330P/PC-K Order no. PSG1001003CE). As such this service manual does not contain the following information as below:-

- Self-Diagnostic and Special Mode Setting
- Service Fixture & Tools
- Disassembly and Assembly Instructions
- Service Position
- Voltage & Waveform Chart
- Illustration of ICs, Transistor and Diode
- Wiring Connection Diagram
- Schematic Diagram Notes
- Terminal Function of ICs

2 Safety Precautions

2.1. 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, carry out the following leakage current checks to prevent the customer from being exposed to shock hazards.

2.1.1. 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 ∞

2.1.2. LEAKAGE CURRENT HOT CHECK

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 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

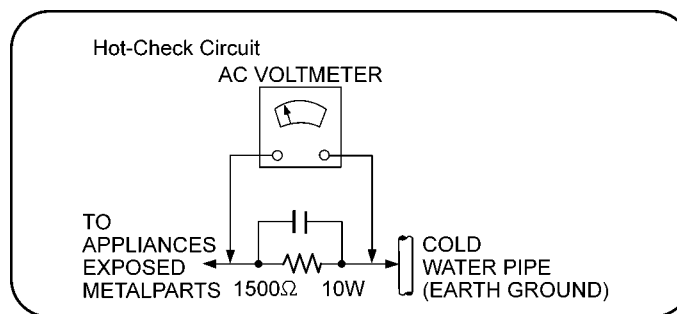


Figure 1

2.2. Before Repair and Adjustment

Disconnect AC power to discharge unit AC Capacitors as such (C5700, C5701, C5702, C5703, C5705, C5706) through a 10Ω , 10 W resistor to ground.

Caution:

DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may destroy solid state devices.
After repairs are completed, restore power gradually using a variac, to avoid overcurrent.
Current consumption at AC 120 V, 60 Hz in NO SIGNAL mode volume minimal should be ~ 900 mA.

2.2.1. Caution for fuse replacement

(For English) CAUTION:

- i) Replace with the same type fuse:
(Manufacturer: LITTELFUSE, INC, Type: 233, F1, 8A, 125V)

(For Canadian French) ATTENTION:

- i) Utiliser un fusible de rechange de mme type:
(Manufacturer: LITTELFUSE, INC, Type: 233, F1, 8A, 125V)

2.3. Protection Circuitry

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

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

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

If this occurs, follow the procedure outlines below:

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

Note:

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

2.4. Safety Parts Information

Safety Parts List:

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

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

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
⚠	2	REXX1030	BLACK WIRE (AC-SMPS)	
⚠	3	REXX1031	RED WIRE (AC-SMPS)	
⚠	20	RGRX1001P-A1	REAR PANEL	
⚠	29	RKM1002-K1	TOP CABINET	
⚠	49	RFKNBT230P	BD DRIVE / MAIN P.C.B ASS'Y	
⚠	101	VQL1V70-J	LASER CAUTION LABEL	
⚠	A2	K2CB2CB00021	AC CORD	
⚠	A3	VQT2T10	O/I BOOK	
⚠	PCB1	RFKNBT228P	MAIN P.C.B.	
⚠	PCB4	REPX0803K	SMPS P.C.B / AC INLET P.C.B.	(RTL)
⚠	DZ5701	ERZV10V511CS	ZNR	
⚠	L5702	G0B612H00002	LINE FILTER	
⚠	L5703	G0B932H00002	LINE FILTER	
⚠	T5701	ETS42BM1GGAC	TRANSFORMER	
⚠	T5751	ETS19AB2A6AG	SUB TRANSFORMER	
⚠	T6100	G4D1A0000142	SWITCHING TRANSFORMER	
⚠	PC5702	B3PBA0000402	PHOTO COUPLER	
⚠	PC5720	B3PBA0000402	PHOTO COUPLER	
⚠	PC5799	B3PBA0000402	PHOTO COUPLER	
⚠	F1	K5D802APA008	FUSE	
⚠	RY701	K6B1AEA00003	RELAY	
⚠	TH5702	D4CAA2R20001	THERMISTOR	
⚠	P5701	K2AB2B000007	AC INLET	
⚠	C5700	F1BAF1020020	1000pF	
⚠	C5701	F0CAF104A105	0.1uF	
⚠	C5702	F0CAF104A105	0.1uF	
⚠	C5703	F0CAF104A105	0.1uF	
⚠	C5705	F1BAF2220023	2200pF	
⚠	C5706	F1BAF471A013	470pF	

3 Warning

3.1. 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 Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor “chip” components. The following techniques should be used to help reduce the incidence of component damage caused by 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 (ESD) sufficient to damage an ES device).

3.2. Precaution of Laser Diode

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.

Caution:

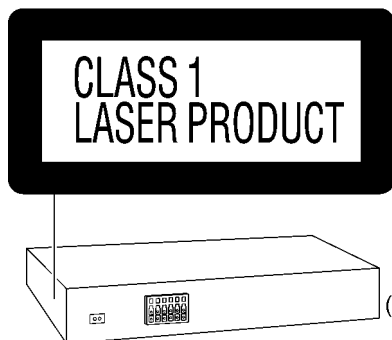
This product utilizes a laser diode with the unit turned "on", invisible laser radiation is emitted from the pickup lens.

Wavelength: 405 nm (BD)/650 nm (DVD)/790 nm (CD)

Maximum output radiation power from pickup: 100 μ W/VDE

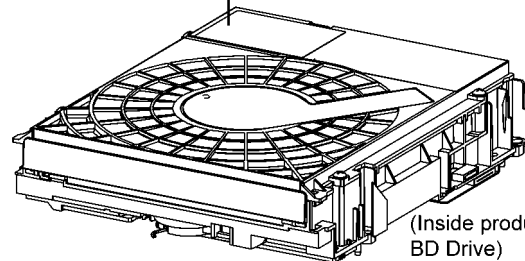
Laser radiation from the pickup unit is safety level, but be sure the followings:

1. Do not disassemble the 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.



(Side of product)

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 LÅGET ER ÅBENT, UNDGÅ AT BLIVE UDSAT FOR STRÅLEN.	
VARO - AVATTAESSA OLET ALTIIN LUOKAN 3B NÄKYVÄÄ JA NÄKYMÄTÖNTÄ LASERSÄTELYÄ. VÄRÖ ALTISTUMISTA SÄTEELIÄ.	
VARNING - KLASS 3B SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. UNDVIK EXPOSERING FÖR STRÅLEN.	
VORSICHT - SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG 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。ビームを昇たり、降りたりしないでください。 VQL1J70	



(Inside product on BD Drive)

3.3. Service caution based on Legal restrictions

3.3.1. 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%

3.4. Handling Precautions for BD Drive

The laser diode in the optical pickup unit may break down due to static electricity of clothes or human body. Special care must be taken avoid caution to electrostatic breakdown when servicing and handling the laser diode in the traverse unit.

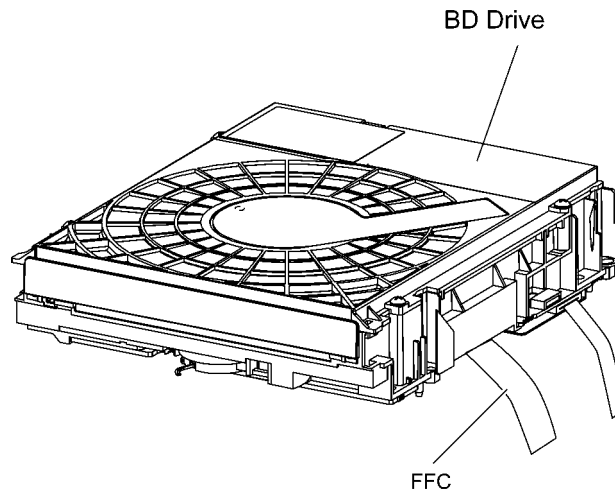


Figure 1

3.4.1. Grounding for electrostatic breakdown prevention

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

3.4.1.1. Worktable grounding

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

3.4.1.2. Human body grounding

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

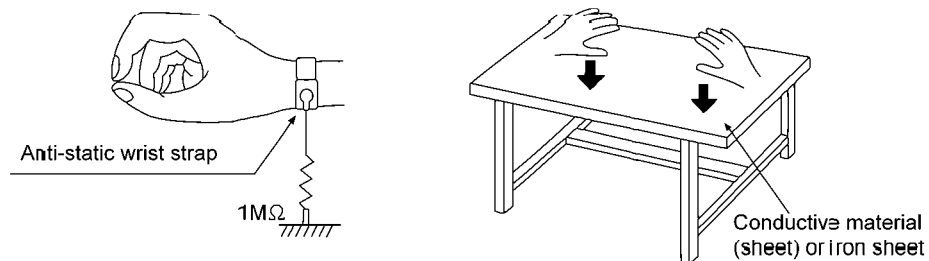


Figure 2

4 Service Navigation

4.1. 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 the original service manual.

• **BD Drive & Digital Circuitries:**

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

- Exploded View and Replacement Parts List for individual parts of BD Drive.

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

- BD Drive & Main P.C.B. Assembly (BT228P: RFKNBT230P)

4.2. Caution for Replacing Parts

4.2.1. Items that should be done after replacing of parts

√: Necessary —: Unnecessary

Items that Should be done Replacing Parts	Updating Firmware (Note 1)
BD Drive/Main P.C.B.	√

Note 1:

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

4.2.2. 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				

5 Specifications

Main unit SA-BT228P

●GENERAL

Power supply: AC 120 V, 60 Hz
iPod/iPhone Connector: DC OUT 5V 500mA MAX
Power consumption: 90 W
Power consumption in standby mode:

0.5 W

approx. 0.1 W

Dimensions (W×H×D): 430 mm×54 mm×287 mm
 (16 15/16"×2 9/64"×11 5/16")

Mass (Weight): Approx. 3.2 kg (7.1lbs)

Operating temperature range: 0 °C to 40 °C
 (+32 °F to 104 °F)

Operating humidity range: 35 % to 80 % RH
 (no condensation)

●AMPLIFIER SECTION

RMS TTL Power Output: 1000 W

1 kHz, 10 % total harmonic distortion

Front:

125 W per ch (3 Ω)

Center:

250 W per ch (6 Ω)

Surround:

125 W per ch (3 Ω)

100 Hz, 10 % total harmonic distortion

Subwoofer:

250 W per ch (6 Ω)

FTC TTL Power Output: 446 W

120 Hz to 20 kHz, 1.0 % total harmonic distortion

Front:

60 W per ch (3 Ω)

Center:

106 W per ch (6 Ω)

Surround:

60 W per ch (3 Ω)

40 Hz to 120 Hz, 1.0 % total harmonic distortion

Subwoofer:

100 W per ch (6 Ω)

Audio input

AUX x1

Digital audio input

Optical: x2

Sampling frequency: 32 kHz, 44.1 kHz, 48 kHz

Audio Format: PCM, Dolby Digital

●FM TUNER SECTION

Frequency range:

87.9 MHz to 107.9 MHz (200 kHz step)

87.5 to 108.0 MHz (100 kHz step)

Antenna terminals: 75 Ω (unbalanced)

●VIDEO SECTION

Signal system: NTSC

Video output

Output level: 1.0 Vp-p (75 Ω)

Output connector: Pin jack (1 system)

HDMI AV output

Output format:

1080p/1080i/720p/480p

Output connector: Type A (19 pin)

HDMI (Deep Color, x.v.Color™, High Bit rate Audio)

This unit supports "HDAVI Control 5" function.

LASER Specification

Class I LASER Product

Wave length:

790 nm (CDs)/650 nm (DVDs)/405 nm (BDs)

Laser power:

No hazardous radiation is emitted with the safety protection

TERMINAL SECTION

SD card slot:

Connector : 1 system

Note:

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

Solder:

This model uses lead free solder (PbF).

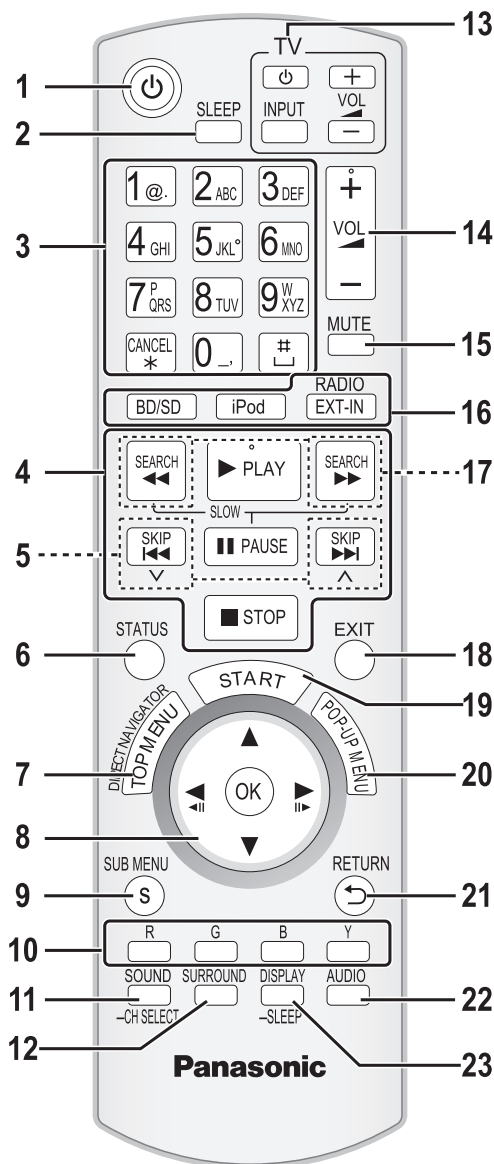
System	SC-BT228P-K
Main unit	SA-BT228P-K
Speaker system	SB-PT480P-K ^{*1}

Refer to their respective original service manuals for *1.

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"BONUSVIEW" is trademark of Blu-ray Disc Association.	
"Made for iPod" means that an electronic accessory has been designed to connect specifically to iPod and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. iPod is a trademark of Apple Inc., registered in the U.S. and other countries. 	
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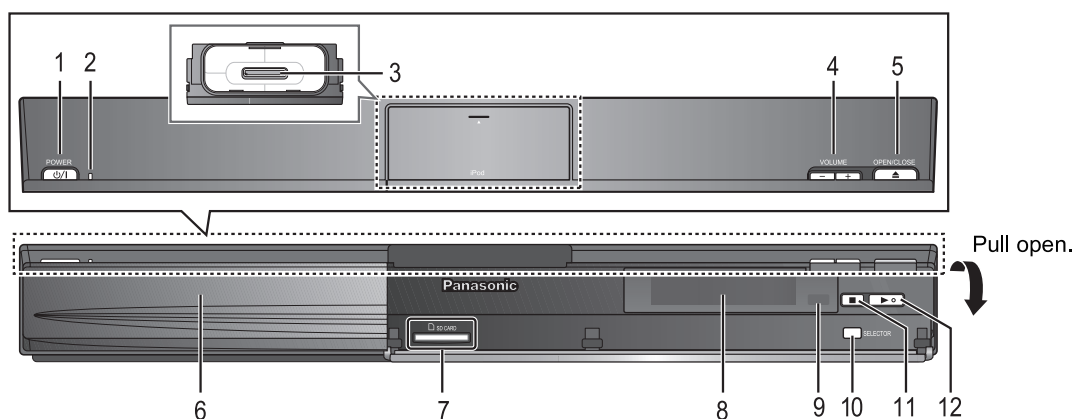
6 Location of Controls and Components

6.1. Remote Control Key Button Operations



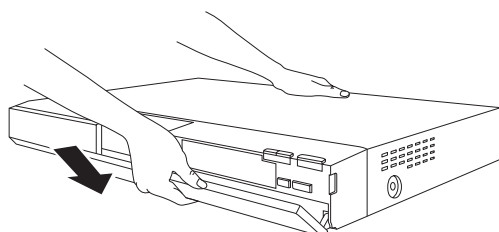
- 1 Turn the unit on and off
- 2 Set the sleep timer
 - ① Press [SLEEP].
 - ② While "SLEEP £ £" is displayed, press [SLEEP] several times to select the time (in minutes).
 - Timer selection is up to 120 minutes.
 - Select "OFF" when cancelling the setting.
 - To confirm the remaining time Press the button again.
- 3 Select title numbers, etc./Enter numbers or characters [CANCEL]: Cancel
- 4 Basic playback control buttons
- 5 Select preset radio stations
- 6 Show status messages
- 7 Show Top Menu/Direct Navigator
- 8 [▲, ▼, ◀, ▶]: Menu selection
 [OK]: Selection
 [◀, ▶]: Select preset radio station
 [◀] (◀||), [▶] (||▶): Frame-by-frame
- 9 Show sub menu
- 10 These buttons are used when;
 - Operating a BD-Video disc that includes Java™ applications (BD-J).
 - Displaying "Title View" and "Album View" screens.
 - Operating contents of VIERA CAST
- 11 Set the sound mode/Select speaker channel
- 12 Select surround sound effects
- 13 TV operation buttons
 [TV]: Turn the television on and off
 [INPUT]: Input select
 [+ - VOL]: Adjust the volume
- 14 Adjust the volume of the main unit
- 15 Mute the sound
 - "MUTE" flashes on the unit's display, while the function is on.
 - To cancel, press the button again or adjust the volume.
 - Muting is canceled if the unit is turned off.
- 16 Select radio stations manually
- 17 Select the source
 [BD/SD]: Select disc drive or SD card drive
 [iPod]: Select iPod/iPhone as the source
 [RADIO/EXT-IN]: Select FM tuner or external audio as the source
- 18 Exit the menu screen
- 19 Show START menu
- 20 Show Pop-up menu
- 21 Return to previous screen
- 22 Select audio
- 23 Show Playback menu/Set the sleep timer
 - ① Press and hold [-SLEEP].
 - ② While "SLEEP * *" is displayed, press [-SLEEP] several times to select the time (in minutes).
 - Timer selection is up to 120 minutes.
 - Select "Off" when cancelling the setting.
 - To confirm the remaining time Press and hold the button again.

6.2. Main Unit Key Button Operations



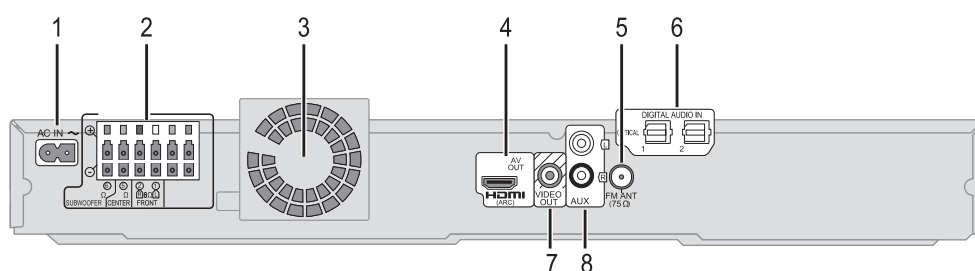
- | | |
|--|---|
| <ol style="list-style-type: none"> 1 Standby/on switch (POWER $\odot/\text{I}$)
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power. 2 Power indicator
The indicator lights when this unit is turned on. 3 Connect iPod/iPhone 4 Adjust the volume of the main unit 5 Open or close the disc tray 6 Disc tray 7 SD card slot | <ol style="list-style-type: none"> 8 Display (FL display) <ul style="list-style-type: none"> • “SRD” (SURROUND) lights when sound is output to the surround speakers. • The display is turned off when the volume is adjusted to “0”. 9 Remote control signal sensor
Distance: Within approx. 7 m (23 ft.)
Angle: Approx. 20° up and down, 30° left and right 10 Select the source 11 Stop 12 Start play |
|--|---|

■ If the front cover comes off



- ① Hold rear side of main unit by one hand and match up left or right side protruding hook on the cover first with the corresponding slot on the unit.
- ② Push the hook firmly towards the unit until it clicks into place. Then push the succeeding hooks one by one until all have clicked into place.
- ③ Check that the cover now moves correctly.
 - If it does not, remove it and repeat the above procedure.

Main unit (Rear)



- | | |
|---|--|
| <ol style="list-style-type: none"> 1 AC IN terminal 2 Speaker terminals 3 Cooling fan 4 HDMI AV OUT terminal 5 FM radio antenna terminal | <ol style="list-style-type: none"> 6 DIGITAL AUDIO IN terminals
Terminal 1 is designated for connection with the TV. Terminal 2 can be used with equipment other than the STB. 7 VIDEO OUT terminal 8 AUX terminal |
|---|--|

Saving energy

This unit is designed to conserve its power consumption and save energy.

- This unit will automatically turn to standby mode after 30 minutes if it is inactive.

6.3. Using BD-LIVE BONUSVIEW in BD-Video

What is BONUSVIEW?

BONUSVIEW allows you to enjoy functions such as picture-in-picture or secondary audio etc.

What is BD-Live?

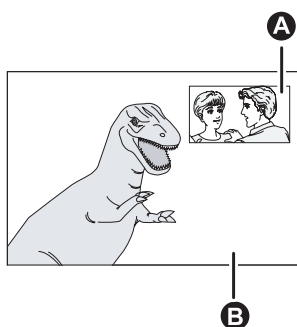
In addition to the BONUSVIEW function, BD-Live allows you to enjoy more functions such as subtitles, exclusive images and online games by connecting this unit to the Internet.

The usable functions and the operating method may vary with each disc, please refer to the instructions on the disc and/or visit their website.

Playing picture-in-picture

To turn on/off secondary video

- ① Press [DISPLAY].
- ② Press [▲, ▼] to select the "Disc" menu and press [▶].
- ③ Press [▲, ▼] to select the "Signal Type" menu and press [OK].
- ④ Press [▲, ▼] to select the "Video" under "Secondary Video" menu and press [▶].
- ⑤ Press [▲, ▼] to select the "On" or "Off".
- ⑥ Press [RETURN] to exit.



- A Secondary video
- B Primary video

To turn on/off secondary audio

- ① Press [DISPLAY].
- ② Press [▲, ▼] to select the "Disc" menu and press [▶].
- ③ Press [▲, ▼] to select the "Signal Type" menu and press [OK].
- ④ Press [▲, ▼] to select the "Soundtrack" under "Secondary Video" menu and press [▶].
- ⑤ Press [▲, ▼] to select the "On" or "Off".
When "On" is selected, press [▶] and then press [▲, ▼] to select the language.
- ⑥ Press [RETURN] to exit.



During search/slow-motion or frame-by-frame, only the primary video is displayed.
When "BD-Video Secondary Audio" in "Digital Audio Output" is set to "Off", secondary audio will not be played.

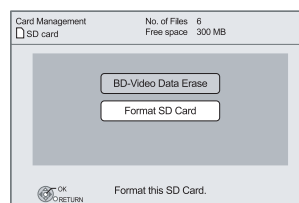
Enjoying BD-Live discs with Internet

Some BD-Live content available on the Blu-ray discs may require an Internet account to be created in order to access the BD-Live content. Follow the screen display or instruction manual of the disc for information on acquiring an account.

- 1 Connect to the network.
- 2 Insert an SD card (with 1 GB or more free space).
SD card is used as the local storage.
- 3 Insert the disc.

Deleting data/Formatting SD cards

- ① Insert an SD card.
- ② Press [START].
- ③ Press [▲, ▼] to select "Other Functions" and press [OK].
- ④ Press [▲, ▼] to select "Card Management" and press [OK].
- ⑤ Press [▲, ▼] to select "BD-Video Data Erase" or "Format SD Card" and press [OK].



- ⑥ Press [◀, ▶] to select "Yes" and press [OK].
- ⑦ Press [◀, ▶] to select "Start" and press [OK].



To use the above functions, it is recommended that you format the card on this unit. If the SD card you use is formatted, all data on the card will be erased. It cannot be recovered.
"BD-Live Internet Access" may need to be changed for certain discs.

When discs supporting BD-Live are played back, the player or disc IDs may be sent to the content provider via the Internet.

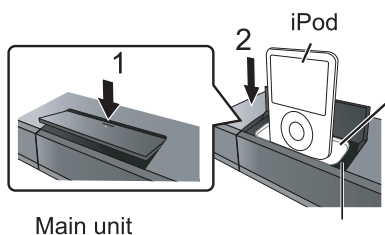
6.4. Using the iPod

iPod Connection

Preparation

- Before connecting/disconnecting the iPod, turn the main unit off or reduce the volume of the main unit to its minimum.
- Make sure that the video connection is made to view photos/videos from the iPod/iPhone.

- 1 Push  to open the iPod lid.
- 2 Connect the iPod (not included) firmly.



- A Dock adapter (not included)
- Attach the dock adapter until firmly fitting into the dock. The adapter should be supplied with your iPod/iPhone for the stable use. If you need an adapter, consult your iPod dealer.
- B Dock for iPod



About recharging the battery

- iPod/iPhone will start recharging regardless of whether this unit is on or off.
- "IPOD ✳" will be shown on the main unit's display during iPod/iPhone charging in main unit standby mode.
- Once fully recharged, additional recharging will not occur.

Compatible iPod/iPhone (as of December 2009)

- Compatibility depends on the software version of your iPod.

Name	Memory size
iPod nano 5th generation (video camera)	8 GB, 16 GB
iPod touch 2nd generation	8 GB, 16 GB, 32 GB, 64 GB
iPod classic	120 GB, 160 GB (2009)
iPod nano 4th generation (video)	8 GB, 16 GB
iPod classic	160 GB (2007)
iPod touch 1st generation	8 GB, 16 GB, 32 GB
iPod nano 3rd generation (video)	4 GB, 8 GB
iPod classic	80 GB
iPod nano 2nd generation (aluminum)	2 GB, 4 GB, 8 GB
iPod 5th generation (video)	60 GB, 80 GB
iPod 5th generation (video)	30 GB
iPod nano 1st generation	1 GB, 2 GB, 4 GB
iPod 4th generation (color display)	40 GB, 60 GB
iPod 4th generation (color display)	20 GB, 30 GB
iPod 4th generation	40 GB
iPod 4th generation	20 GB
iPod mini	4 GB, 6 GB

6.4.1. iPod Playback

iPod Playback

Preparation

- Make sure that the “IPOD” source is selected. Press [iPod] to select the source.
- **To view photos/videos from the iPod/iPhone**
Operate the iPod menu to make the appropriate photo/video output settings for your TV.
- To display the picture, turn on the TV and select the appropriate video input mode.

Enjoy music/video

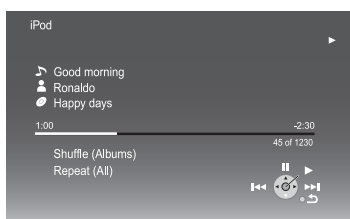
To use the iPod touch/iPhone features

- ① Press the Home button on the iPod touch/iPhone.
- ② Select the iPod touch features on the touch screen to operate.

- 1 Press [iPod] to select “IPOD”.**
- 2 Press [STATUS] several times to select the music menu or videos menu.**
- 3 Press [▲, ▼] to select an item and press [OK].**

Repeat this step until the selected title starts playback.

Press [◀, ▶] to display the previous or next page.
e.g., music playback screen



To exit, press [TOP MENU/DIRECT NAVIGATOR].

Enjoy photos

- 1 Press [iPod] to select “IPOD”.**
- 2 Press [STATUS] several times to select the All menu (iPod display).**
- 3 Switch the TV input to video in.**
- 4 Play a slideshow on your iPod.**
The picture will be displayed on your TV.

You can use the remote control to operate the iPod menu.

The operation may vary among iPod models.

- [▲, ▼]: To navigate menu items
- [OK]: To go to the next menu.
- [RETURN]: To return to the previous menu.

Other methods of playback

- 1 Press [START].**
- 2 Press [▲, ▼] to select “Menu” and then press [OK].**
- 3 Press [▲, ▼] to select “Playback Mode” and then press [OK].**
- 4 Press [▲, ▼] to select an item and press [OK].**

Shuffle (For music playback only.)

Songs:

Play all songs on iPod in random order.

Albums:

Play all songs on an album in random order.

Repeat

One:

Play a single song/video repeatedly.

All:

Play all songs/videos from selected items (e.g., Playlists, Albums, etc.) repeatedly.

- 5 Press [▲, ▼] to select the setting and press [OK].**



- The setting of the playback mode will be kept until changes are made on the same iPod/iPhone.

Basic controls

(For music and video playback only)

Buttons	Functions
[▶ PLAY]	Play
[■ STOP]	Pause
[PAUSE]	
[SKIP ◀◀, SKIP ▶▶]	Skip
(Press and hold) [SEARCH ◀◀, SEARCH ▶▶]	Search

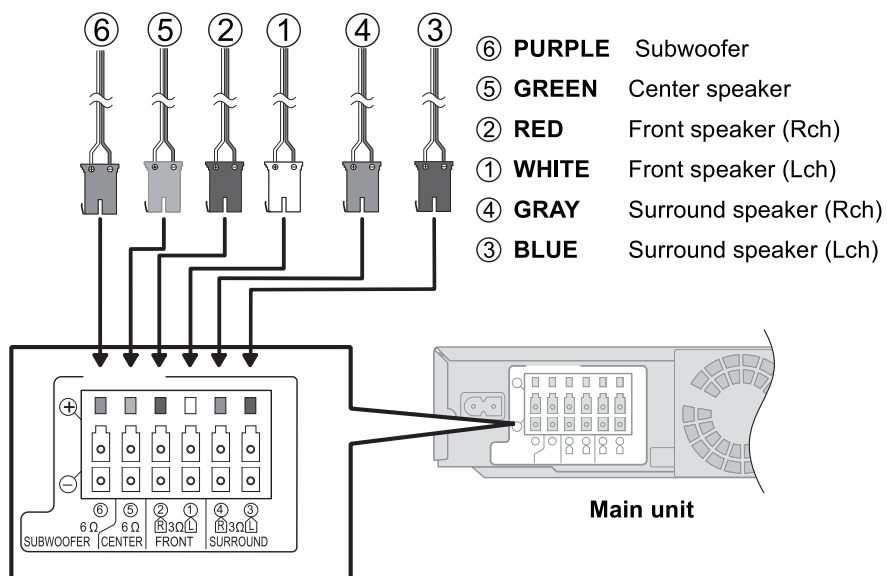


- Surround sound effect and sound mode are available.

6.5. Speaker Connections

Turn off all equipment before connection and read the appropriate operating instructions.

Do not connect the AC power supply cord until all other connections are complete.



6.6. Disc Playability

Type	Logo examples	Type detail	Playable contents
BD		BD-Video	Video
		BD-RE	Video JPEG
		BD-R	Video
DVD		DVD-Video	Video
		DVD-RAM	Video AVCHD JPEG
		DVD-R	Video AVCHD MP3 JPEG
		DVD-R DL	
		DVD-RW	Video AVCHD
	—	+R/+RW/+R DL	
CD		Music CD	Music [CD-DA]
	—	CD-R CD-RW	Music [CD-DA] MP3 JPEG
SD		SD Memory Card (8 MB to 2 GB) (Includes miniSD Card and microSD Card) SDHC Memory Card (4 GB to 32 GB) (Includes microSDHC Card) SDXC Memory Card (48 GB, 64 GB) (Includes microSDXC Card) (as of December 2009)	MPEG2 AVCHD JPEG

■ Discs that cannot be played in this unit

Any other disc that is not specifically supported or previously described.

- 2.6 GB and 5.2 GB DVD-RAM
- DVD-RAM that cannot be removed from cartridge
- Super Audio CD
- Photo CD
- DVD-Audio
- Video CD and Super Video CD
- WMA discs
- DivX discs
- PAL discs
- HD DVD
- BD-Video discs recorded at a rate of 50 fields/sec

■ Region management information

BD-Video

This unit plays BD-Video marked with labels containing the region code A.

Example:



DVD-Video

This unit plays DVD-Video marked with labels containing the region number "1" or "ALL".

Example:



■ Finalize

DVD-R/RW/R DL, +R/+RW/+R DL and CD-R/RW recorded by a recorder, etc. needs to be finalized by the recorder to play on this unit. Please refer to the recorder's instructions.

■ BD-Video

This unit supports high bit rate audio (Dolby Digital Plus, Dolby TrueHD, DTS-HD High Resolution Audio and DTS-HD Master Audio) adopted in BD-Video. In order to enjoy these audio formats, refer to page 36.

■ Music CD

- Operation and sound quality of CDs that do not conform to CD-DA specifications (copy control CDs, etc.) cannot be guaranteed.
- The digital audio content side of a DualDisc does not meet the technical specifications of the Compact Disc Digital Audio (CD-DA) format so playback may not be possible.

6.7. SD Information

■ SD card

- MiniSD Cards, microSD Cards, microSDHC Cards and microSDXC Cards can be used, but must be used with an adaptor card. These are usually supplied with such cards, or otherwise customer provided.
- Keep the Memory Card out of reach of children to prevent swallowing.
- To protect the card's contents, move the record prevention tab (on the SD card) to "LOCK".
- This unit is compatible with SD Memory Cards that meet SD Card Specifications FAT12 and FAT16 formats, as well as SDHC Memory Cards in FAT32 format (Does not support long file name.) and SDXC Memory Cards in exFAT.
- If the SD card is used with incompatible computers or devices, recorded contents may be erased due to the card being formatted etc.
- Useable memory may be slightly less than the card capacity.



- It may not be possible to play the above media in some cases due to the type of media, the condition of the recording, the recording method and how the files were created.
- The producers of the disc can control how discs are played. So you may not always be able to control play as described in these operating instructions. Read the disc's instructions carefully.

6.8. File Extension Type Support (MP3/JPEG/AVCHD/MPEG2 files)

MP3

File format	MP3
Extension	Files must have the extension “.mp3” or “.MP3”.
Compression rate	32 kbps to 320 kbps
Sampling rate	44.1 kHz/48 kHz
Reference	ID3 tags: version 1, 2.2, 2.3, 2.4 (Only titles and the names of artists)

JPEG

File format	JPEG
Extension	Files must have the extension “.jpg” or “.JPG”.
Picture resolution	between 34X34 and 8192X8192 pixels (sub sampling is 4:2:2 or 4:2:0)
Reference	JPEG conforming DCF* is supported. ● MOTION JPEG and Progressive JPEG is not supported

* Design rule for Camera File system: unified standard established by Japan Electronics and Information Technology Industries Association (JEITA).

- DVD-RAM must conform to UDF 2.0.
- BD-RE must conform to UDF 2.5.

AVCHD

File format	AVCHD format (V1.0) used on High Definition Video Camera (Panasonic and some other's)
Codec	MPEG-4 AVC/H.264
● Discs must conform to UDF 2.5.	

MPEG2

File format	SD-Video format* used on Standard Definition Video Camera (Panasonic and some other's)
Codec	MPEG2
* SD-Video Entertainment Video Profile	



- With certain recording states and folder structures, the play order may differ or playback may not be possible.
- CD-R, CD-RW : ISO9660 level 1 or 2 (except for extended formats), Joliet
This unit is compatible with multi-session.
This unit is not compatible with packet writing.
- DVD-R, DVD-R DL (except for AVCHD) : ISO9660 level 1 or 2 (except for extended formats), Joliet, UDF bridge (UDF 1.02/ISO9660)
This unit is not compatible with multi-session.
This unit is not compatible with packet writing.

6.8.1. File Folders Structures

Structure of folders that can be played in this unit

You can play files on this unit by structure of folders as shown below. However depending on the method of writing data (writing software), play may not be in the order you numbered the folders.

Folder which can be displayed with this unit

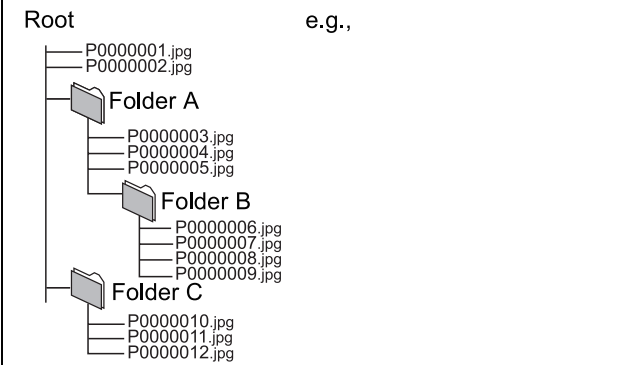
***: Numbers

XXX: Letters

- *1 ***: from 001 to 999
- *2 ***: from 100 to 999
- XXXXX: 5 figures
- *3 *****: from 0001 to 9999

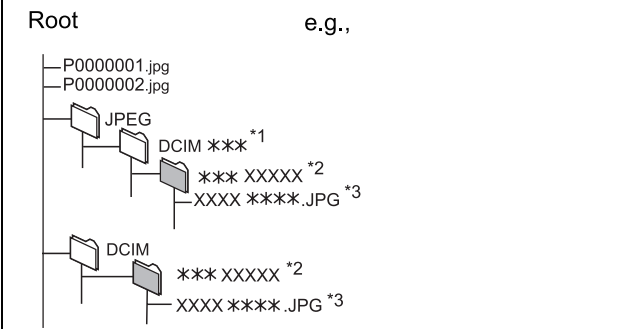
Structures of still picture (JPEG) folders

in DVD-R^{*4}/DVD-R DL^{*4}/CD-R^{*5}/CD-RW^{*5}
Files inside a folder are displayed in the order they were updated or taken.



in BD-RE^{*6}/DVD-RAM^{*4}

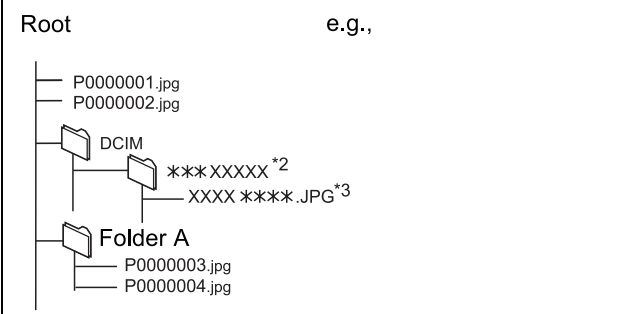
Folder structure is not displayed.



in SD card^{*4}

Displays JPEG files in all folders.

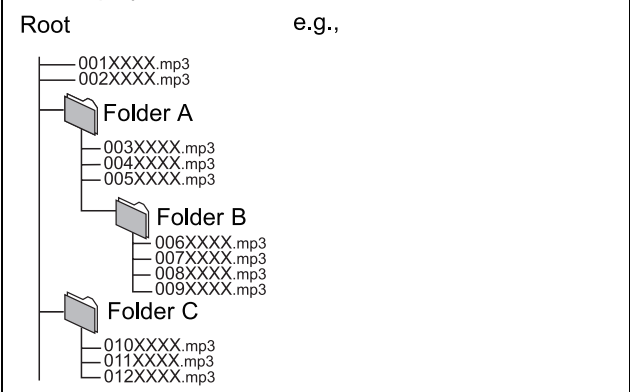
Folder structure is not displayed.



Structure of MP3 folders

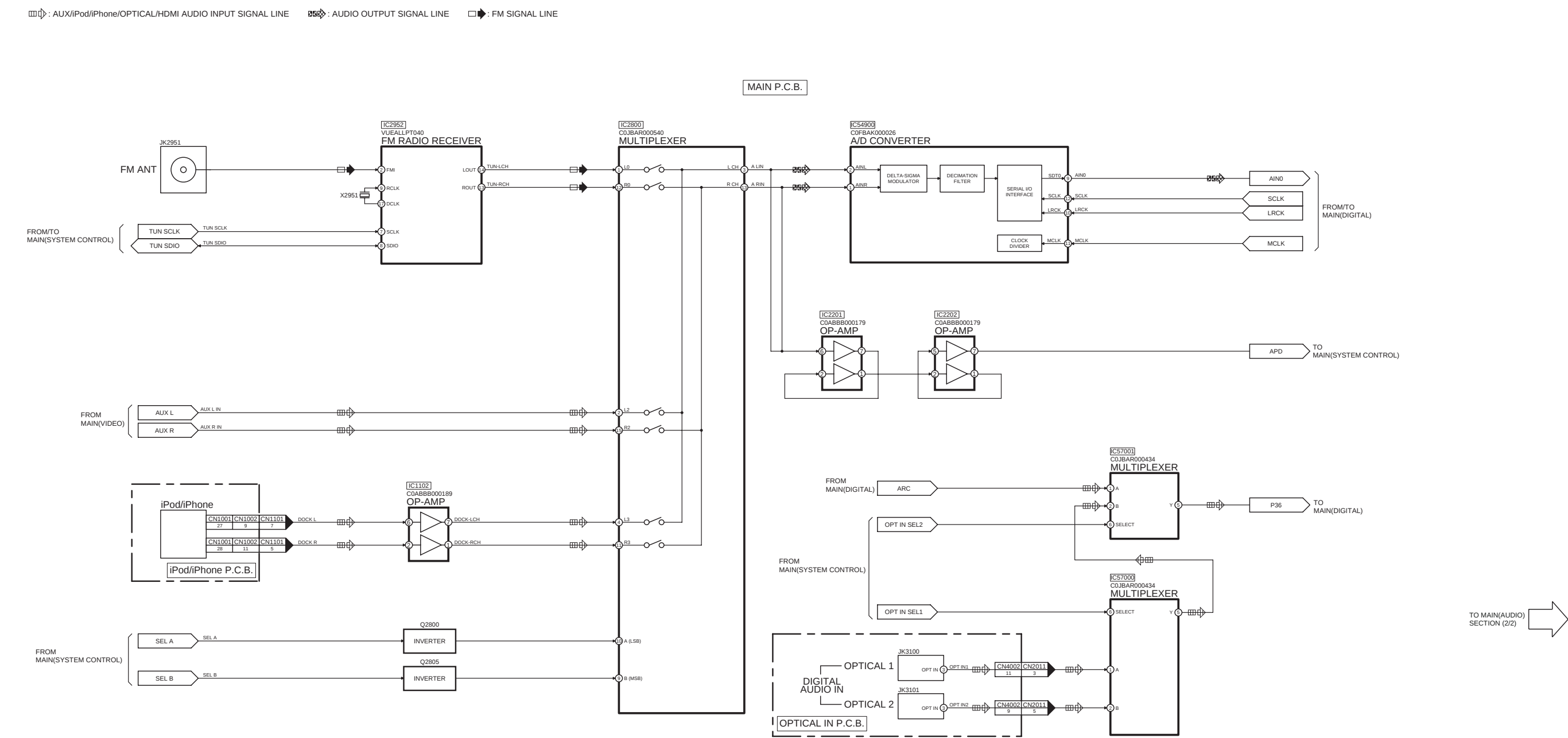
in DVD-R/DVD-R DL/CD-R/CD-RW

Prefix the file names with 3-digit numbers in the order you want to play them.



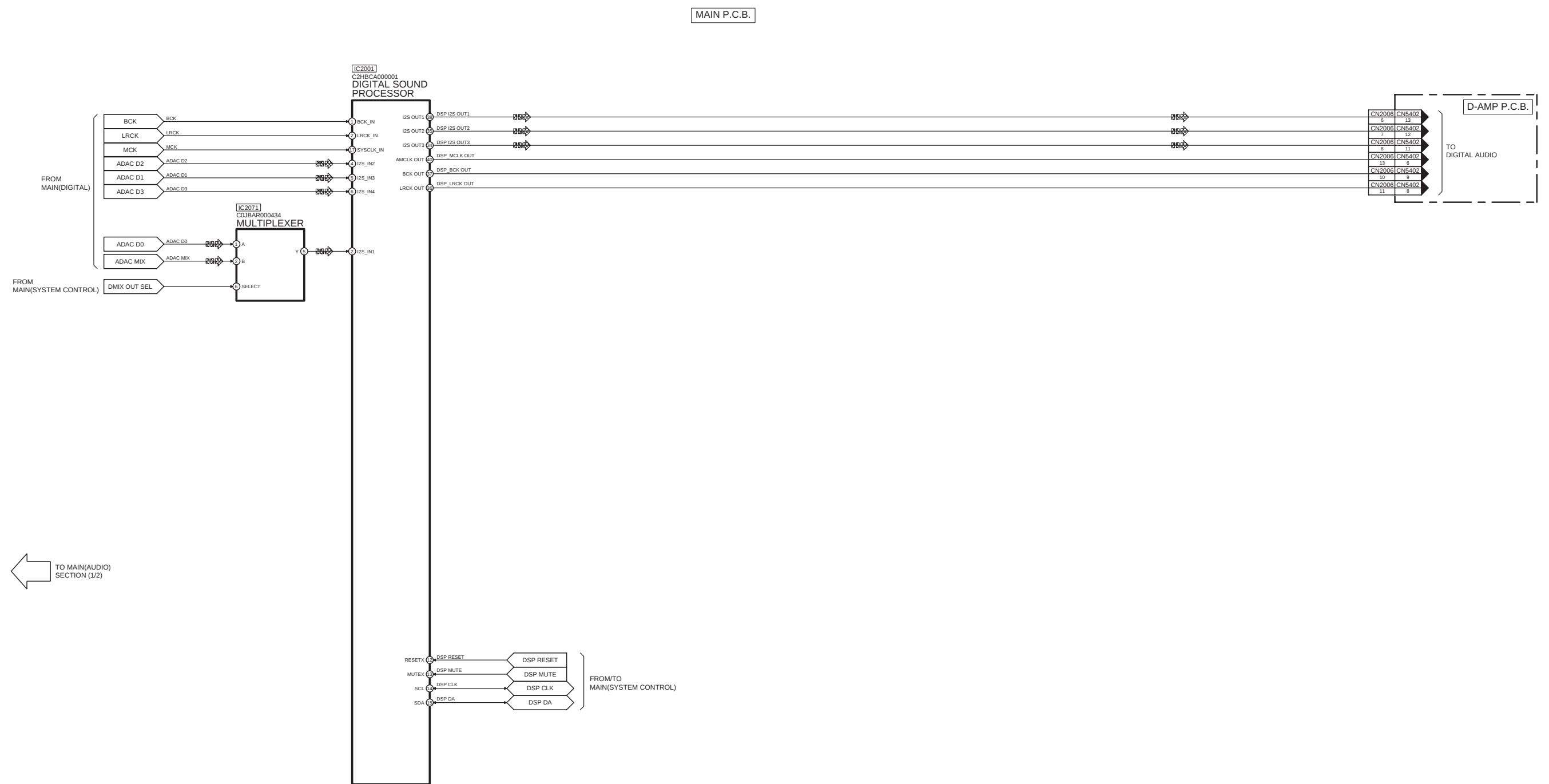
- *4 The total combined maximum number of recognizable picture contents and folders: 3000 picture contents and 300 folders.
- *5 The total combined maximum number of recognizable picture contents and folders: 999 picture contents and 99 folders.
- *6 The total combined maximum number of recognizable picture contents and folders: 9999 picture contents and 300 folders.

7.2. Main(Audio)



SA-BT228P MAIN(AUDIO) (1/2) BLOCK DIAGRAM

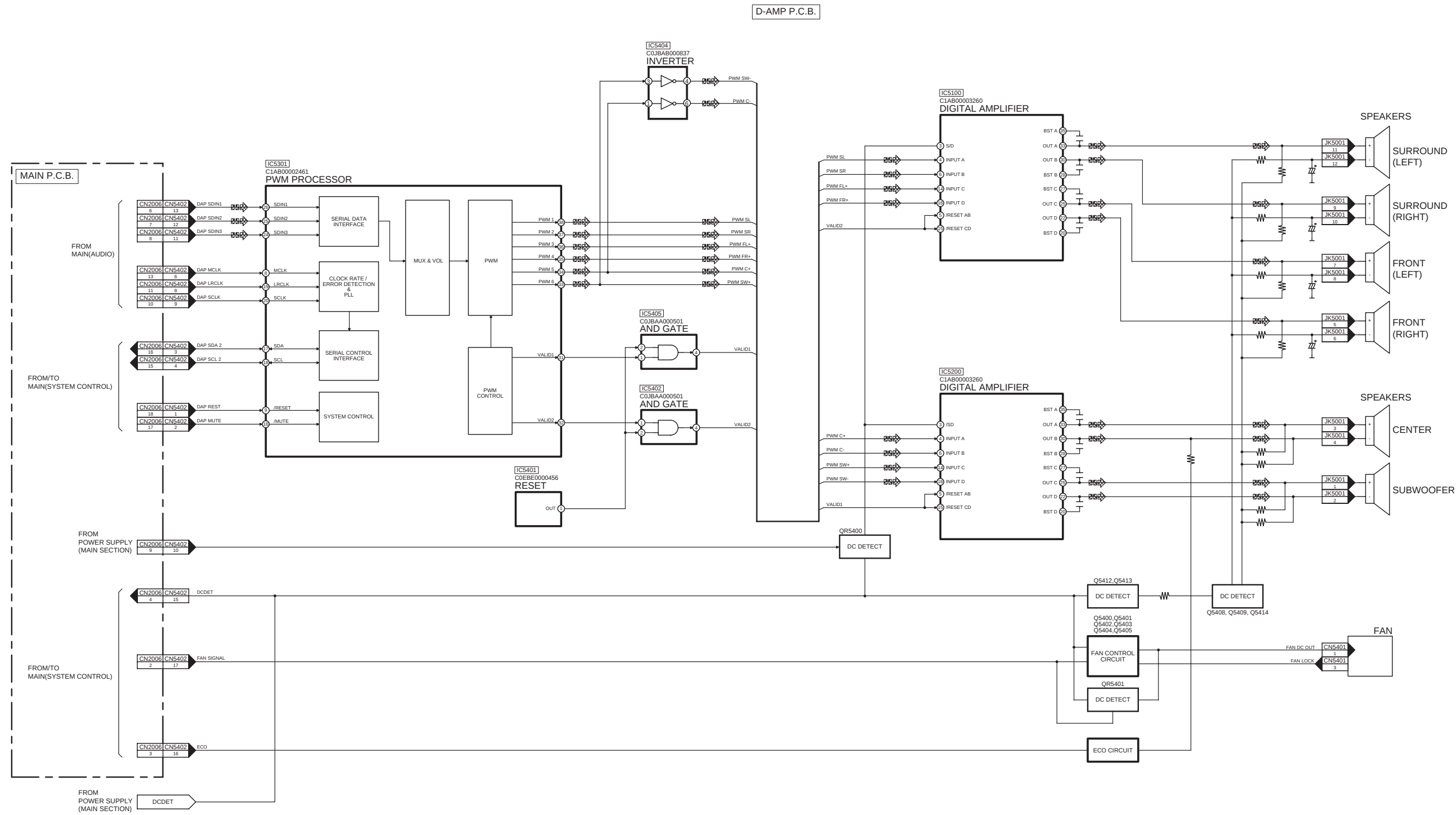
 : AUX/Apple/Phone/OPTICAL/HDMI AUDIO INPUT SIGNAL LINE
  : AUDIO OUTPUT SIGNAL LINE
  : FM SIGNAL LINE



SA-BT228P MAIN(AUDIO) (2/2) BLOCK DIAGRAM

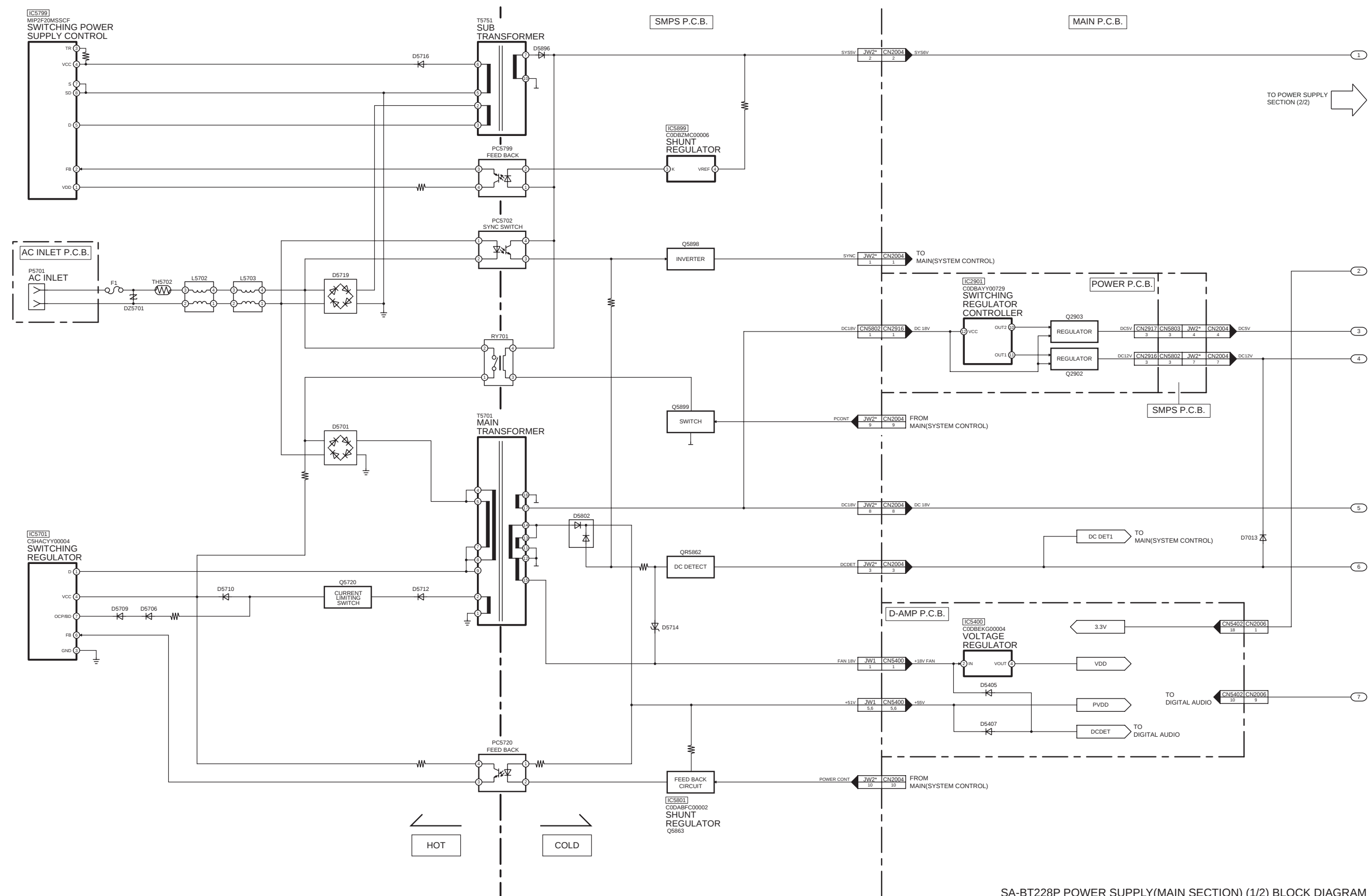
7.3. Digital Audio

🔌 : AUDIO OUTPUT SIGNAL LINE



SA-BT228P DIGITAL AUDIO BLOCK DIAGRAM

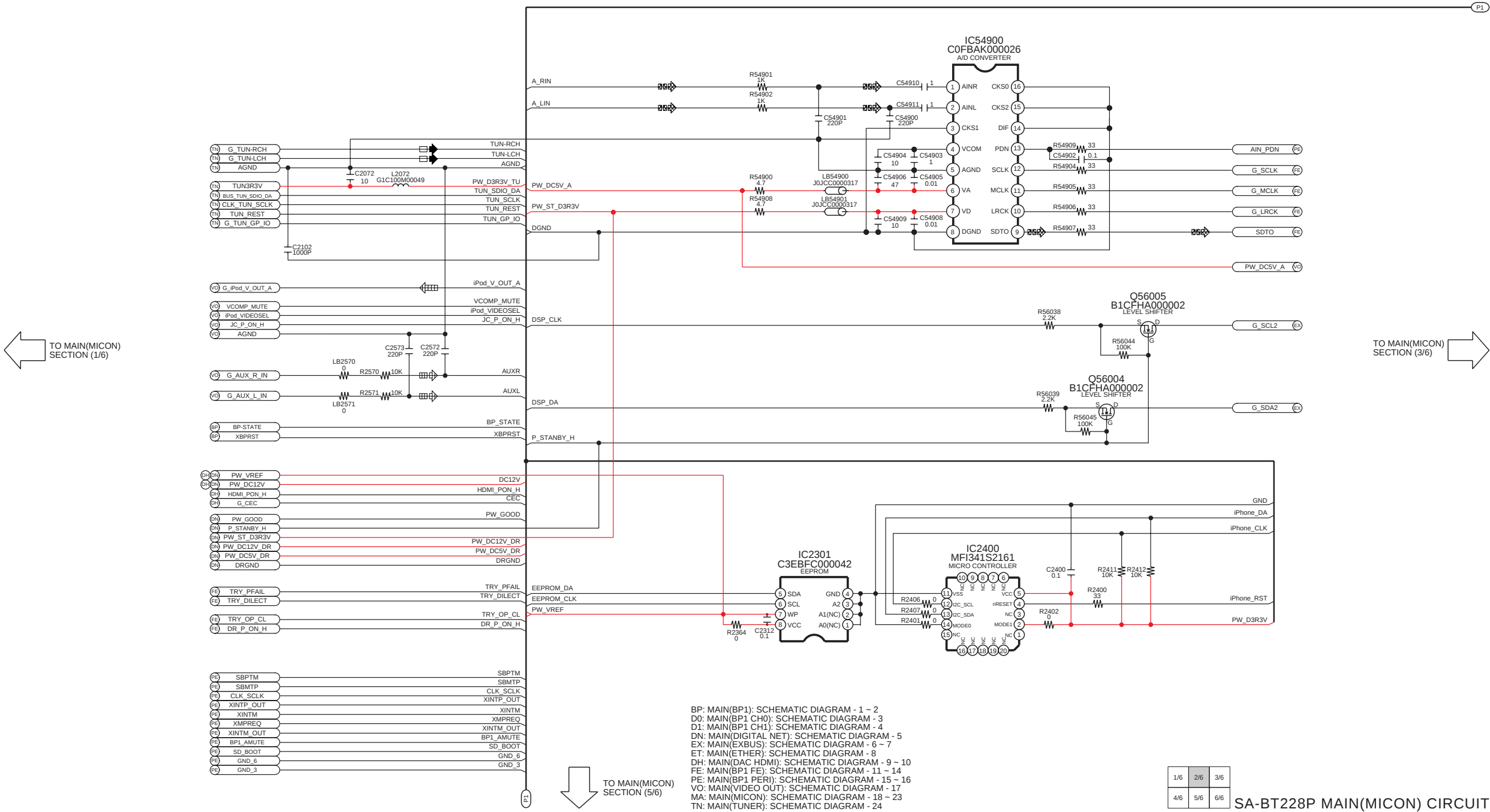
7.4. Power Supply(Main Section)



SA-BT228P POWER SUPPLY(MAIN SECTION) (1/2) BLOCK DIAGRAM

SCHEMATIC DIAGRAM - 19
A MAIN(MICON) CIRCUIT

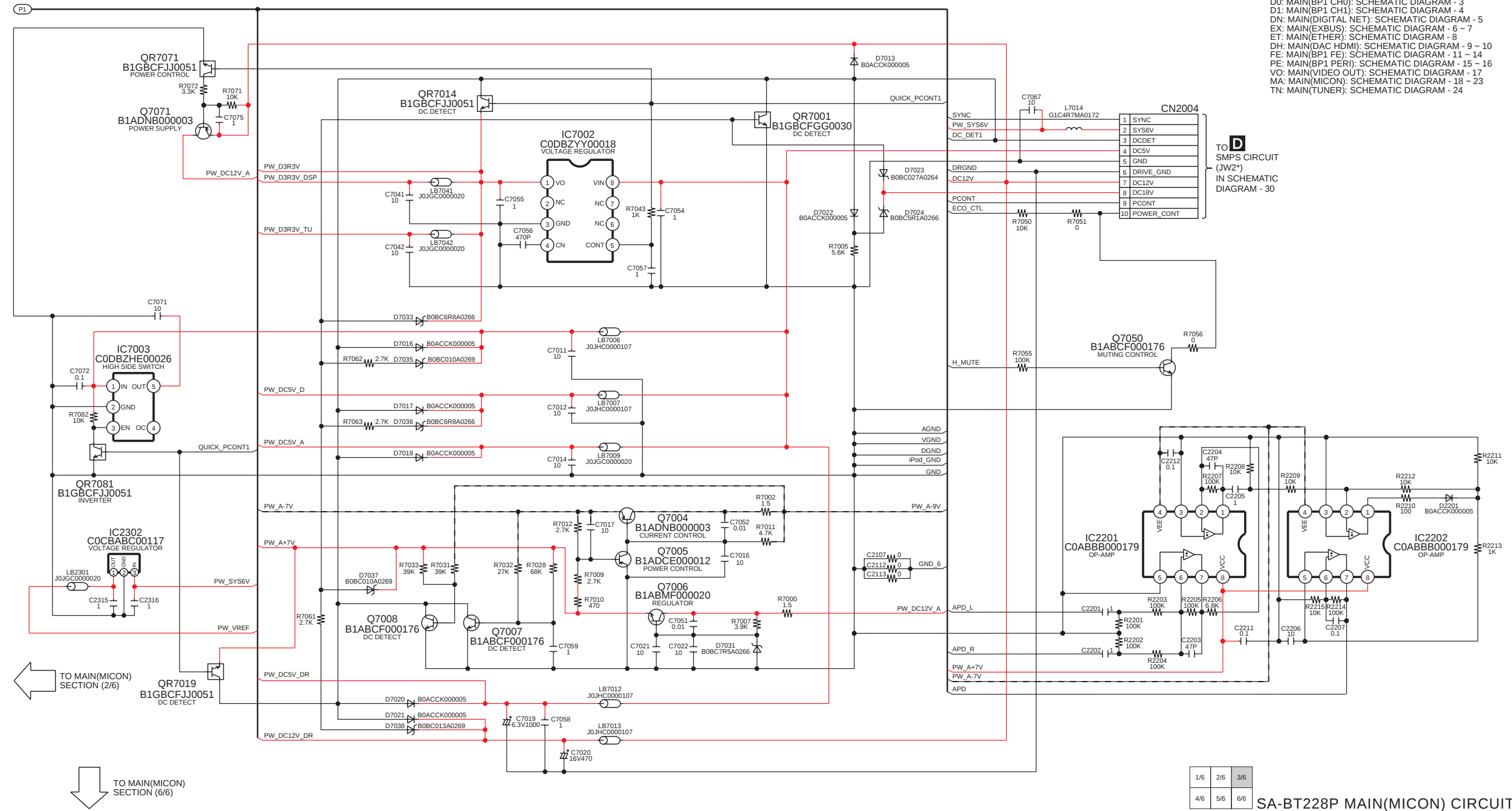
—+B SIGNAL LINE —-B SIGNAL LINE : iPod/iPhone/AUX/OPTICAL/HDMI AUDIO INPUT SIGNAL LINE : iPod/iPhone VIDEO INPUT SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE : FM SIGNAL LINE



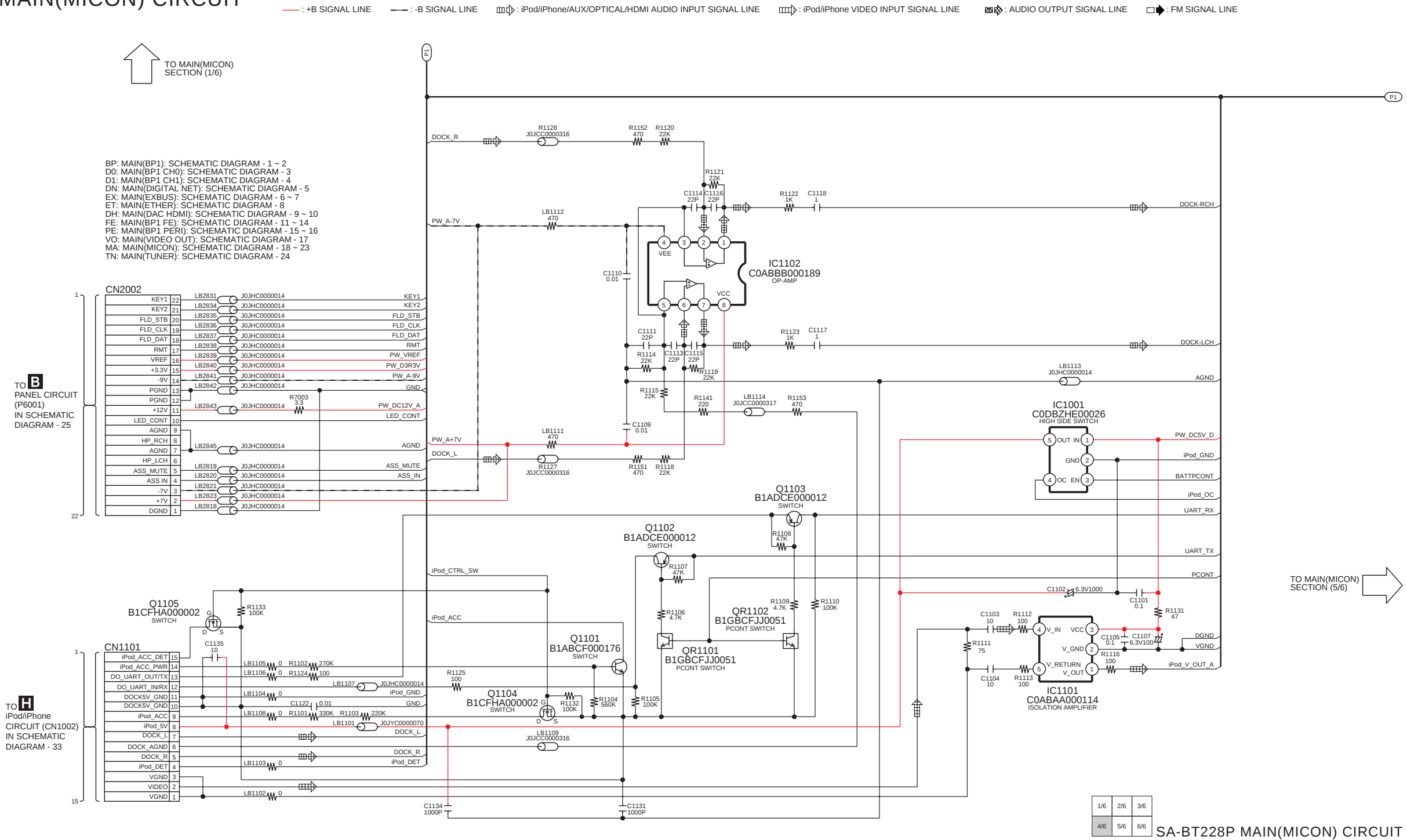
SCHEMATIC DIAGRAM - 20

A MAIN(MICON) CIRCUIT

— : +B SIGNAL LINE — : -B SIGNAL LINE : iPod/iPhone/AUX/OPTICAL/HDMI AUDIO INPUT SIGNAL LINE : iPod/iPhone VIDEO INPUT SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE : FM SIGNAL LINE



SCHEMATIC DIAGRAM - 21
A MAIN(MICON) CIRCUIT



A MAIN(MICON) CIRCUIT



TO MAIN(MICON
SECTION (6/6)

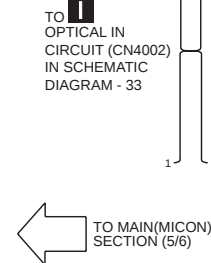
BP: MAIN(BP1): SCHEMATIC DIAGRAM - 1 - 2
D0: MAIN(BP1 CH0): SCHEMATIC DIAGRAM - 3 - 1
D1: MAIN(BP1 CH1): SCHEMATIC DIAGRAM - 3 - 2
DN: MAIN(DIGITAL NET): SCHEMATIC DIAGRAM - 5
EX: MAIN(EXBUS): SCHEMATIC DIAGRAM - 6 - 7
ET: MAIN(ETHER): SCHEMATIC DIAGRAM - 8
DH: MAIN(DAC FDM): SCHEMATIC DIAGRAM - 9 ~ 10
FE: MAIN(BP1 FE): SCHEMATIC DIAGRAM - 11 ~ 14
PE: MAIN(BP1 PERI): SCHEMATIC DIAGRAM - 15 ~ 16
VO: MAIN(VIDEO OUT): SCHEMATIC DIAGRAM - 17
MA: MAIN(MICON): SCHEMATIC DIAGRAM - 18 ~ 23
TN: MAIN(TUNER): SCHEMATIC DIAGRAM - 24

1/6	2/6	3/6
4/6	5/6	6/6

SA-BT228P MAIN(MICON) CIRCUIT

A MAIN(MICON) CIRCUIT

↑ TO MAIN(MICON)
SECTION (3/6)



1/6	2/6	3/6
4/6	5/6	6/6

SA-BT228P MAIN(MICON) CIRCUIT

A MAIN(TUNER) CIRCUIT

□➡: FM SIGNAL LINE



G_TUN-LCH (MA)

G_TUN-RCH (MA)

AGND (MA)

TUN3R3V (MA)

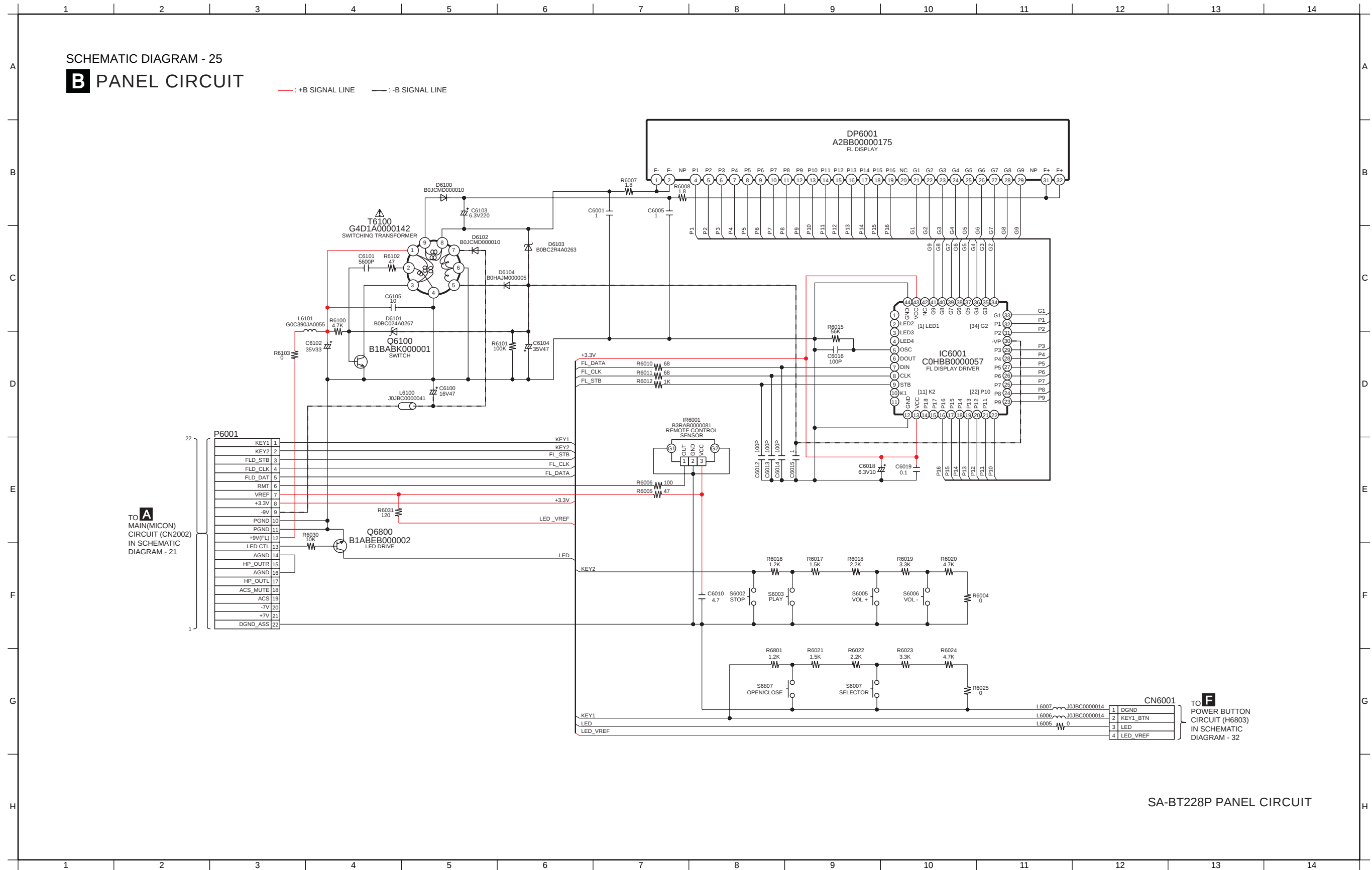
BUS_TUN_SDIO_DA (MA)

CLK_TUN_SCLK(MA)

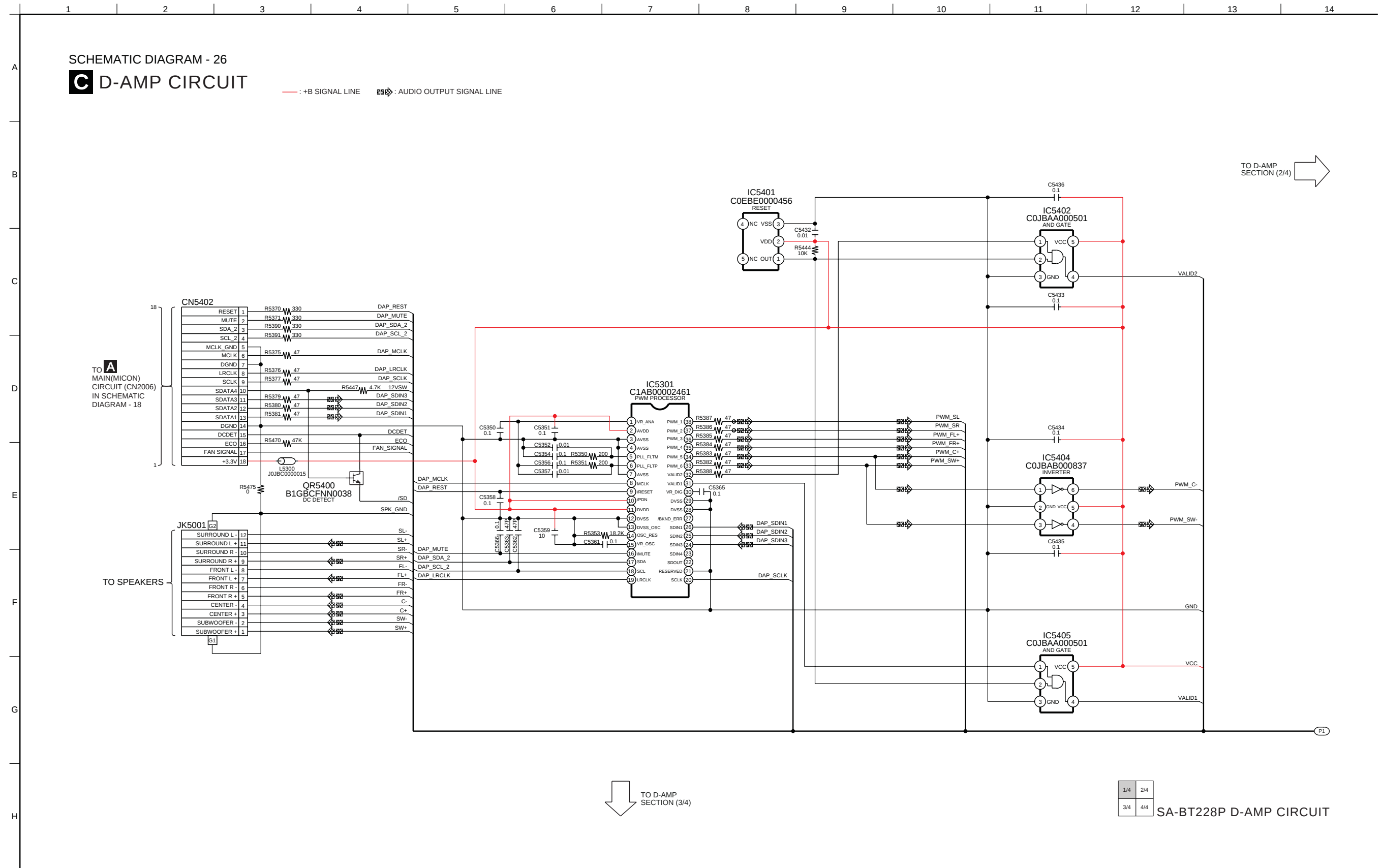
BP: MAIN(BP1): SCHEMATIC DIAGRAM - 1 ~ 2
 DO: MAIN(BP1 CH0): SCHEMATIC DIAGRAM - 3
 DI: MAIN(BP1 CH1): SCHEMATIC DIAGRAM - 4
 DN: MAIN(DIGITAL_N): SCHEMATIC DIAGRAM - 5
 EX: MAIN(EXBUS): SCHEMATIC DIAGRAM - 6 ~ 7
 ET: MAIN(ETHER): SCHEMATIC DIAGRAM - 8
 DH: MAIN(DAC_HDMI): SCHEMATIC DIAGRAM - 9 ~ 10
 FE: MAIN(BP1 FE): SCHEMATIC DIAGRAM - 11 ~ 14
 PE: MAIN(BP1 PERI): SCHEMATIC DIAGRAM - 15 ~ 16
 VO: MAIN(VIDEO OUT): SCHEMATIC DIAGRAM - 17
 MA: MAIN(MICON): SCHEMATIC DIAGRAM - 18 ~ 23
 TN: MAIN(TUNER): SCHEMATIC DIAGRAM - 24

SA-BT228P MAIN(TUNER) CIRCUIT

8.2. Panel Circuit



8.3. D-Amp Circuit

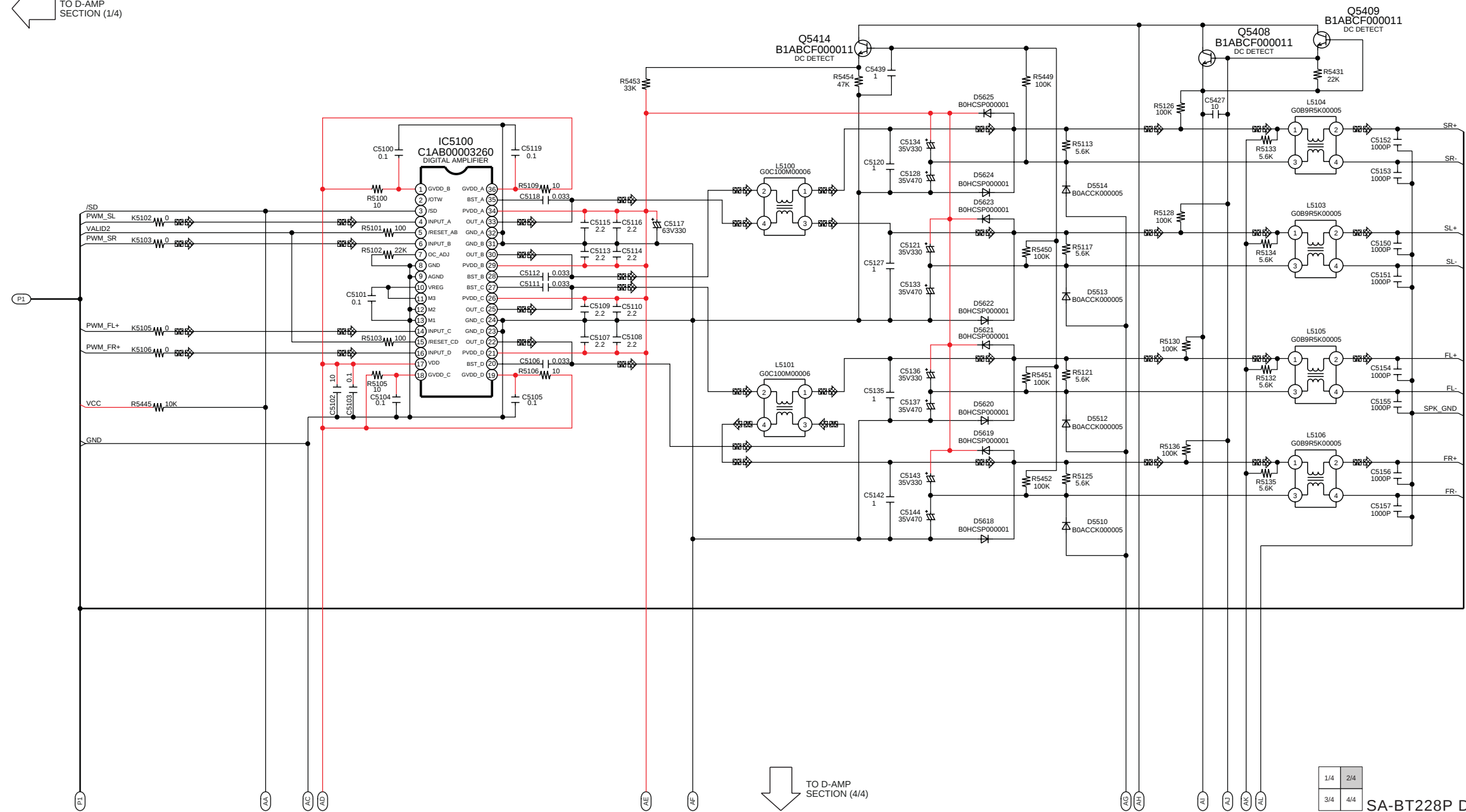


SCHEMATIC DIAGRAM - 27

C D-AMP CIRCUIT

— : +B SIGNAL LINE  : AUDIO OUTPUT SIGNAL LINE

← TO D-AMP
SECTION (1/4)



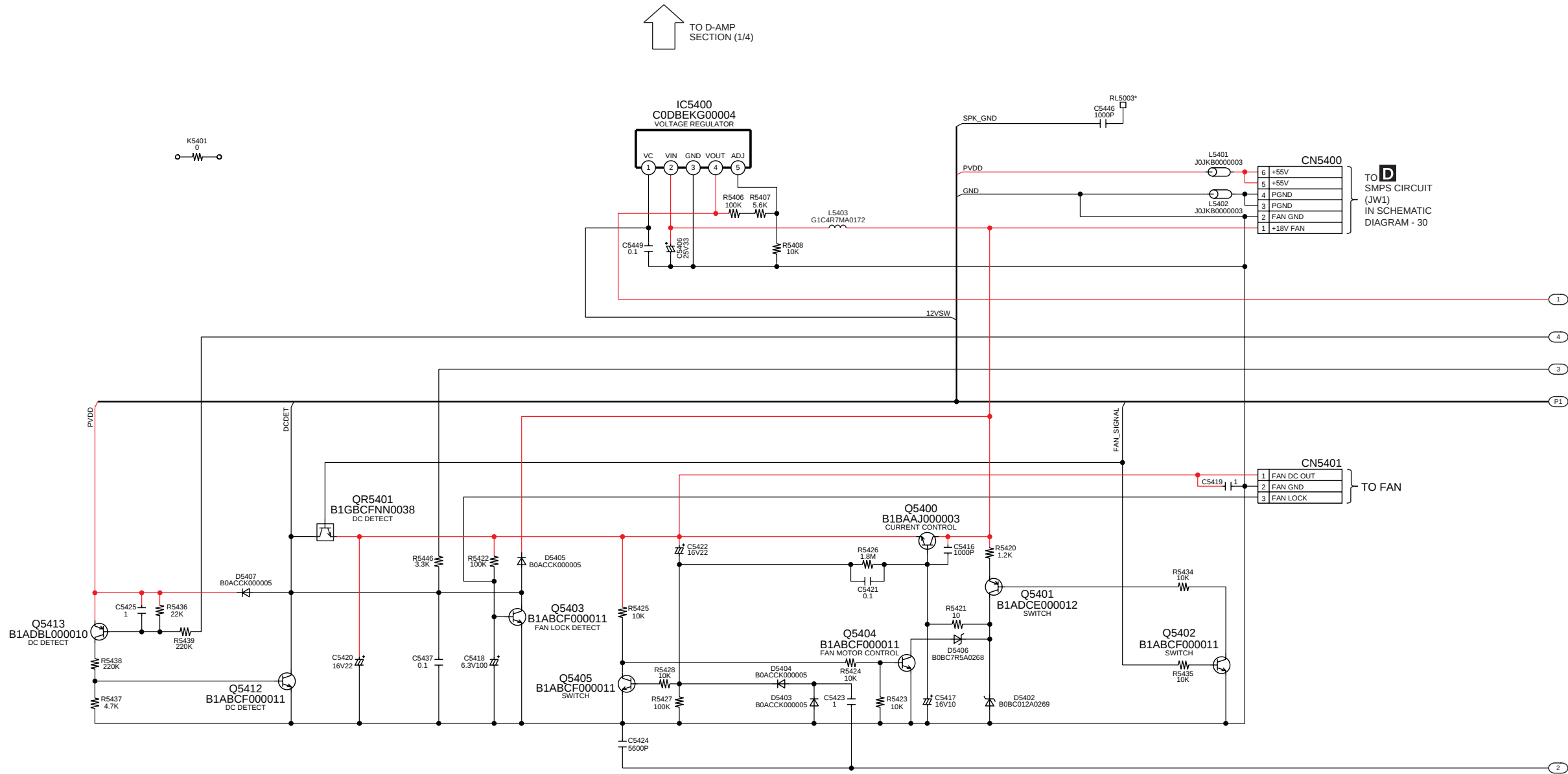
↓ TO D-AMP
SECTION (4/4)

1/4 2/4
3/4 4/4
SA-BT228P D-AMP CIRCUIT

SCHEMATIC DIAGRAM - 28

C D-AMP CIRCUIT

— : +B SIGNAL LINE  : AUDIO OUTPUT SIGNAL LINE



↑ TO D-AMP SECTION (1/4)

TO **D** SMPS CIRCUIT (JW1) IN SCHEMATIC DIAGRAM - 30

TO FAN

TO D-AMP SECTION (4/4) →

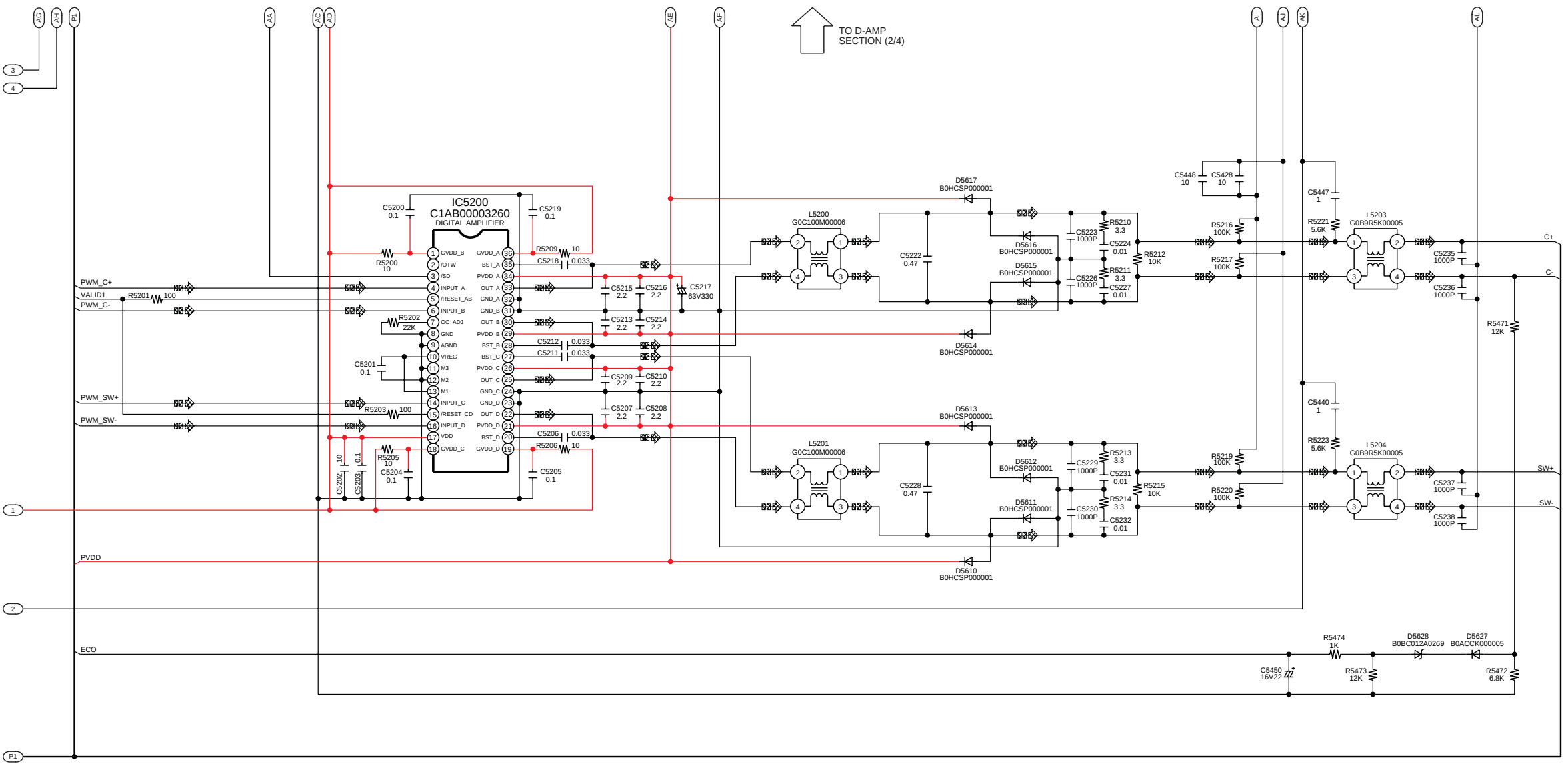
1/4	2/4
3/4	4/4

 SA-BT228P D-AMP CIRCUIT

SCHEMATIC DIAGRAM - 29

C D-AMP CIRCUIT

— : +B SIGNAL LINE  : AUDIO OUTPUT SIGNAL LINE



← TO D-AMP SECTION (3/4)

↑ TO D-AMP SECTION (2/4)

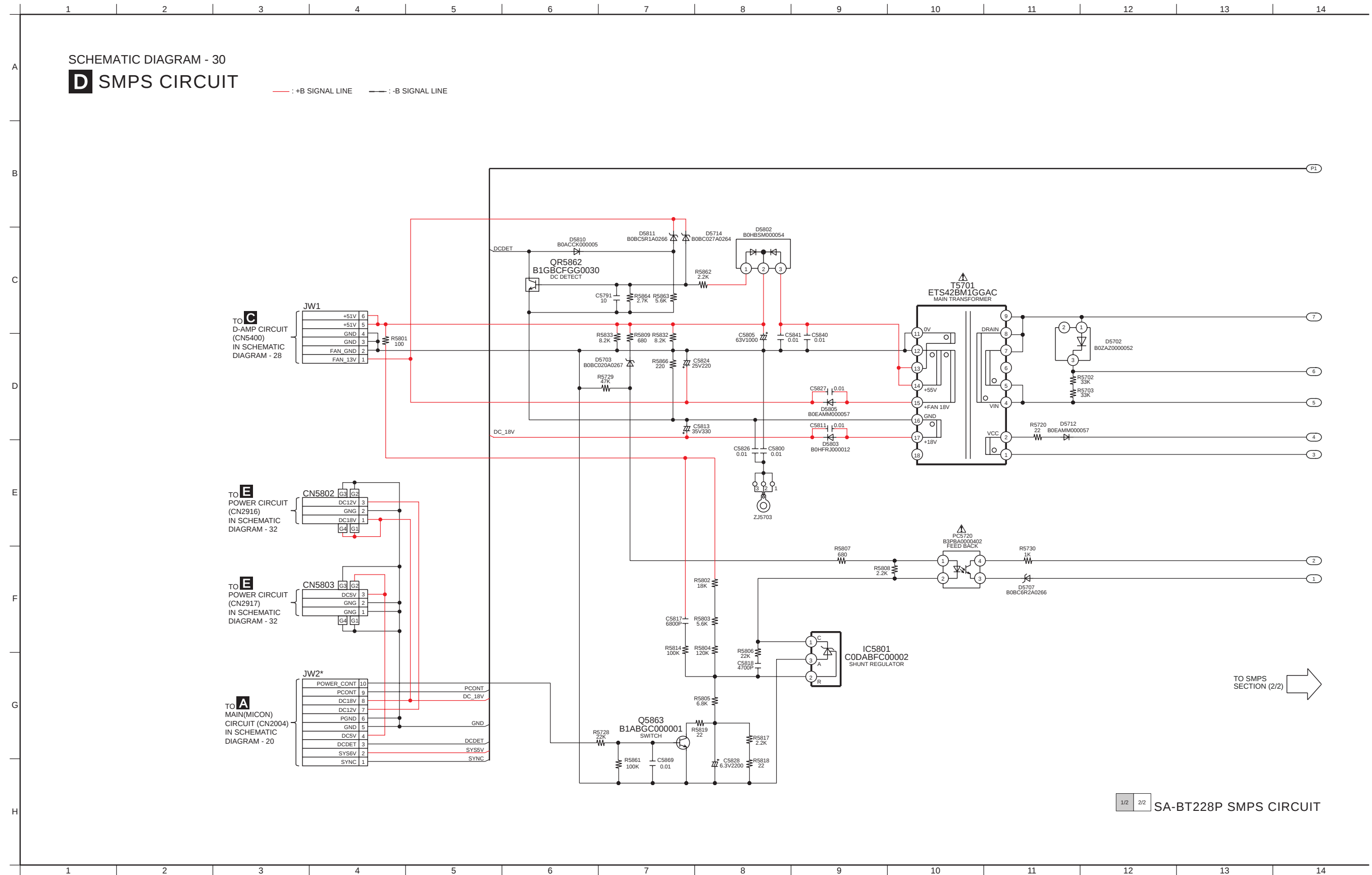
1/4	2/4
3/4	4/4

 SA-BT228P D-AMP CIRCUIT

I
J
K
L
M
N
O
P

15 16 17 18 19 20 21 22 23 24 25 26 27 28

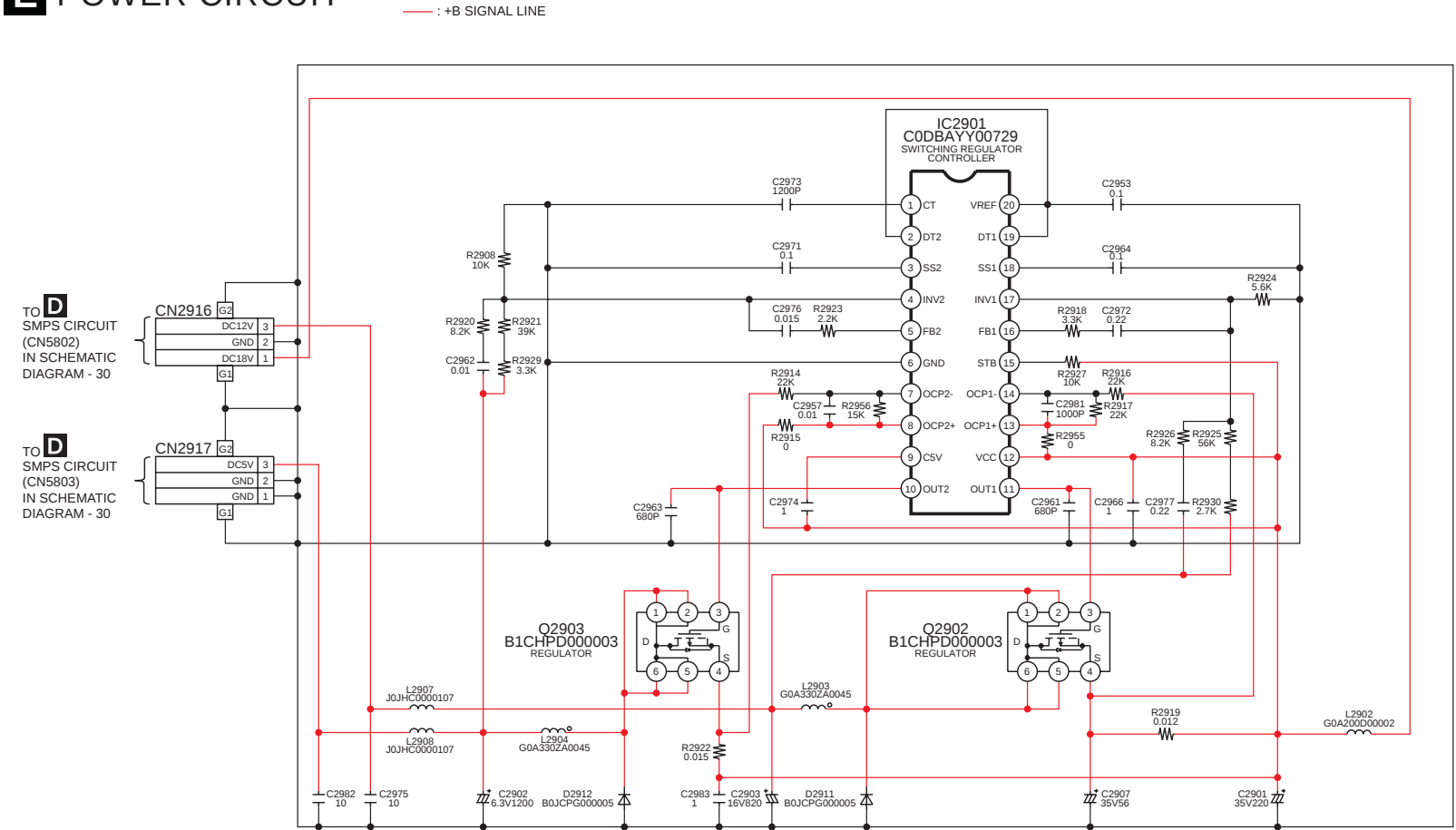
8.4. SMPS Circuit



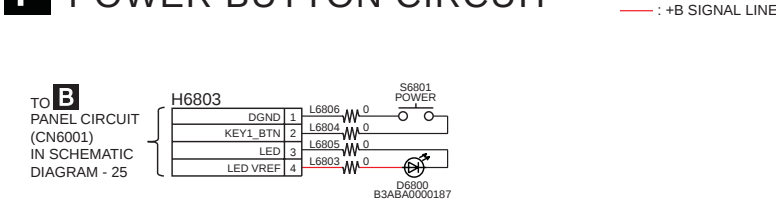
8.5. Power, Power Button & AC Inlet Circuit

SCHEMATIC DIAGRAM - 32

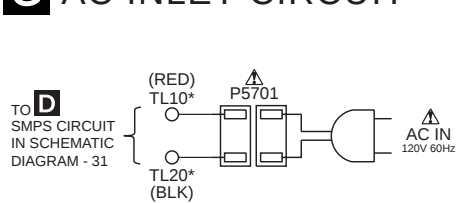
E POWER CIRCUIT



F POWER BUTTON CIRCUIT

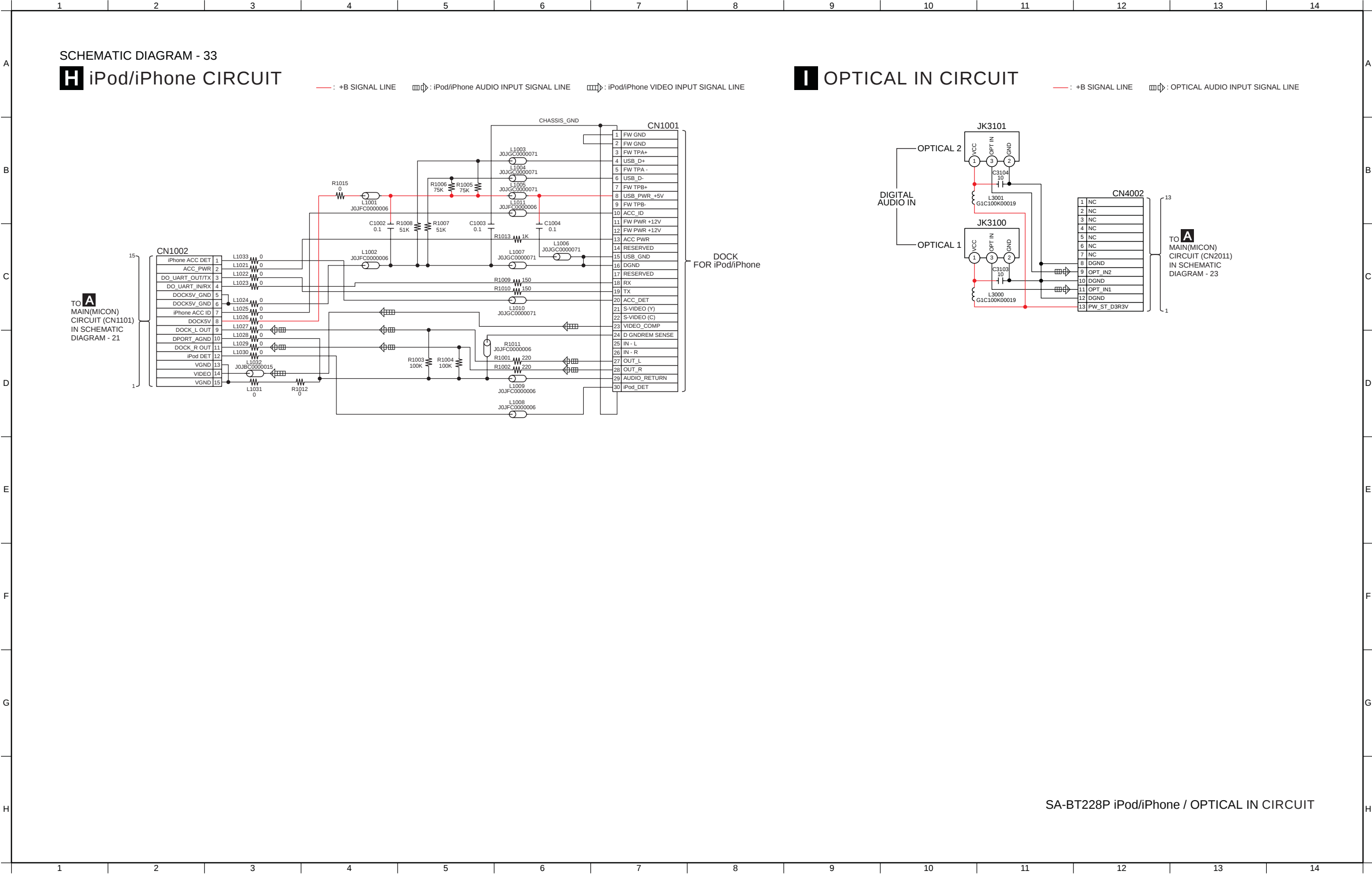


G AC INLET CIRCUIT



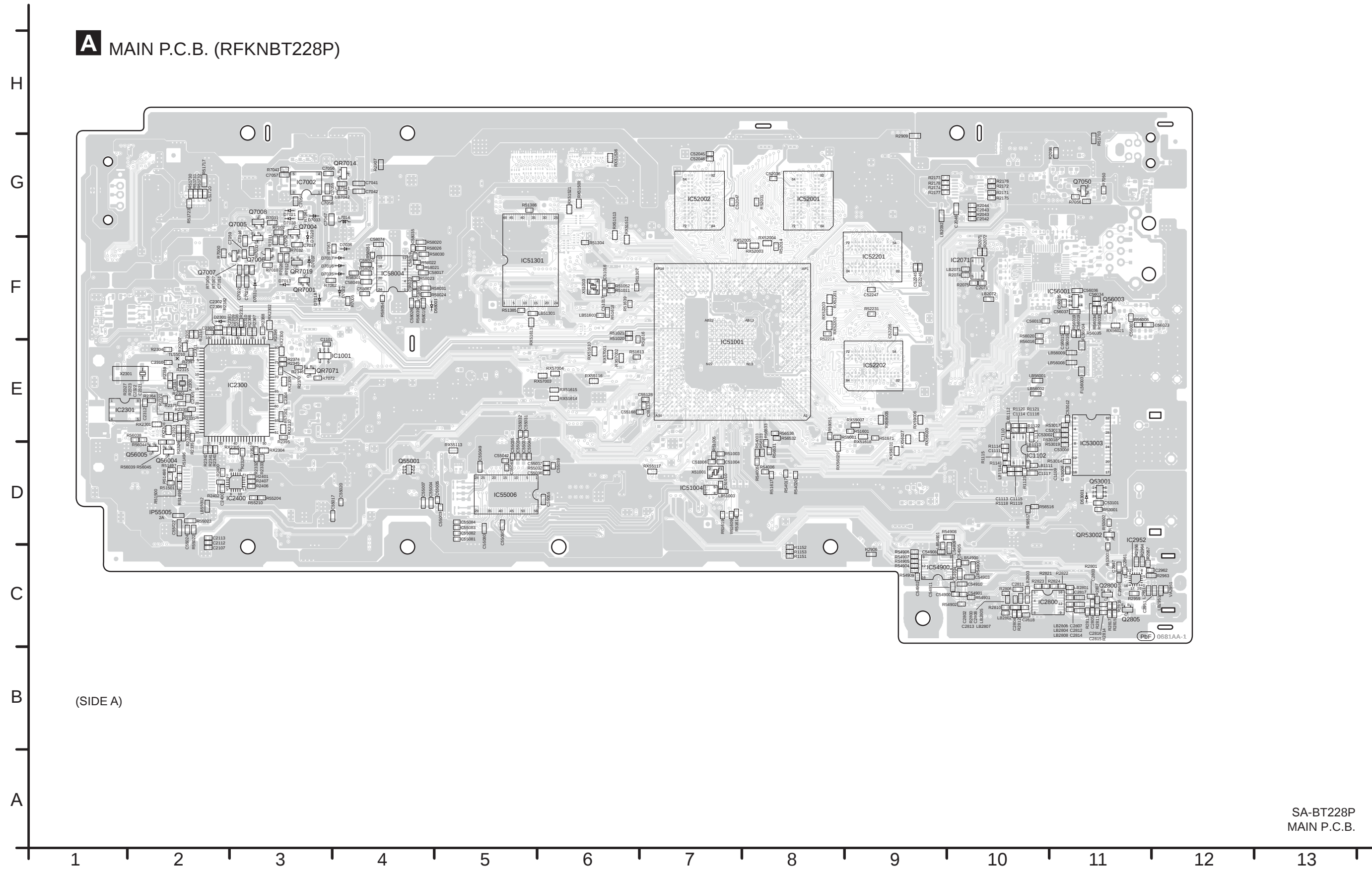
SA-BT228P POWER / POWER BUTTON / AC INLET CIRCUIT

8.6. iPod/iPhone & Optical In Circuit



9 Printed Circuit Board

9.1. Main P.C.B.



A MAIN P.C.B. (RFKNBT228P)

HDMI AV OUT (ARC)

VIDEO OUT

AUX

FM ANT

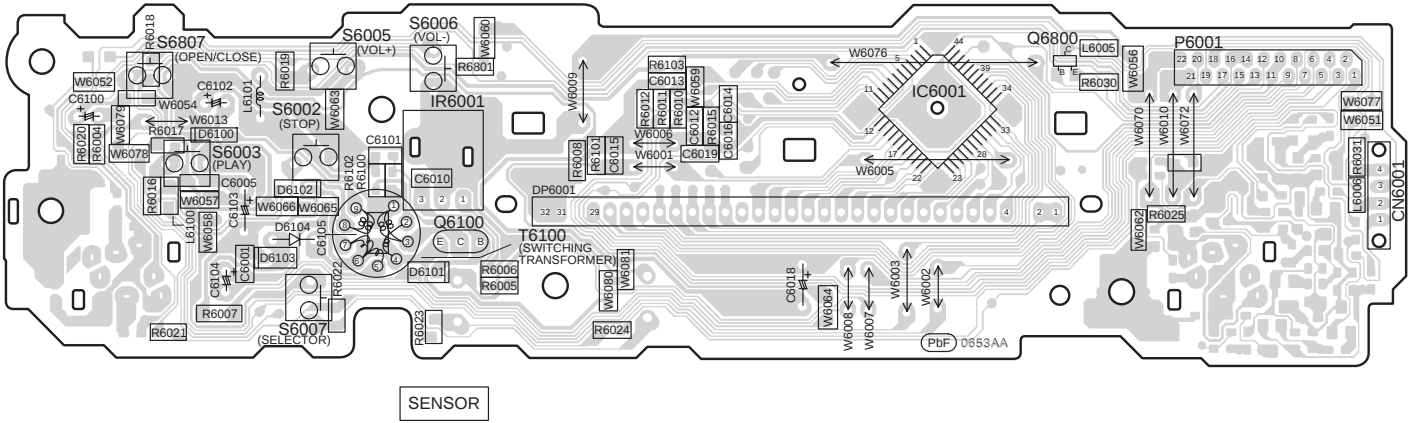
SD CARD

(SIDE B)

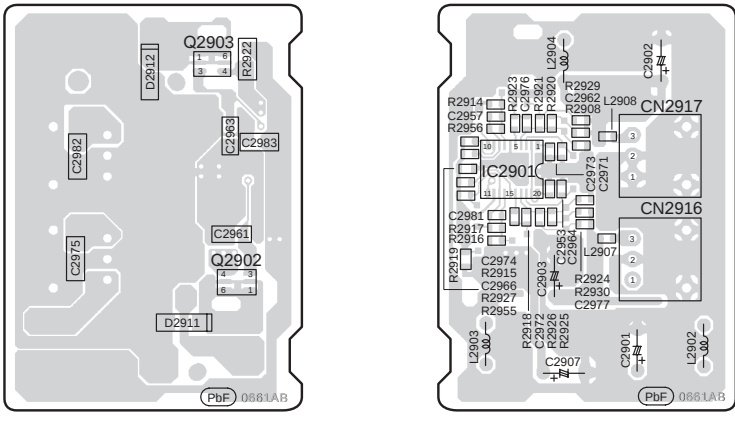
SA-BT228P
MAIN P.C.B.

9.2. Panel, Power, Power Button & AC Inlet P.C.B.

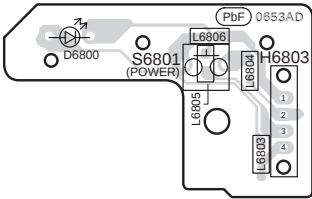
B PANEL P.C.B. (REPX0825AA)



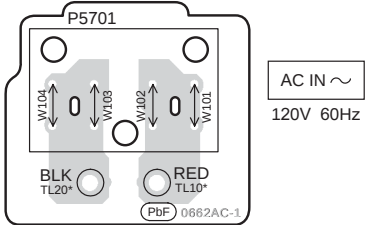
E POWER P.C.B. (REPX0799AB)



F POWER BUTTON P.C.B. (REPX0825AD)



G AC INLET P.C.B. (REPX0803K)

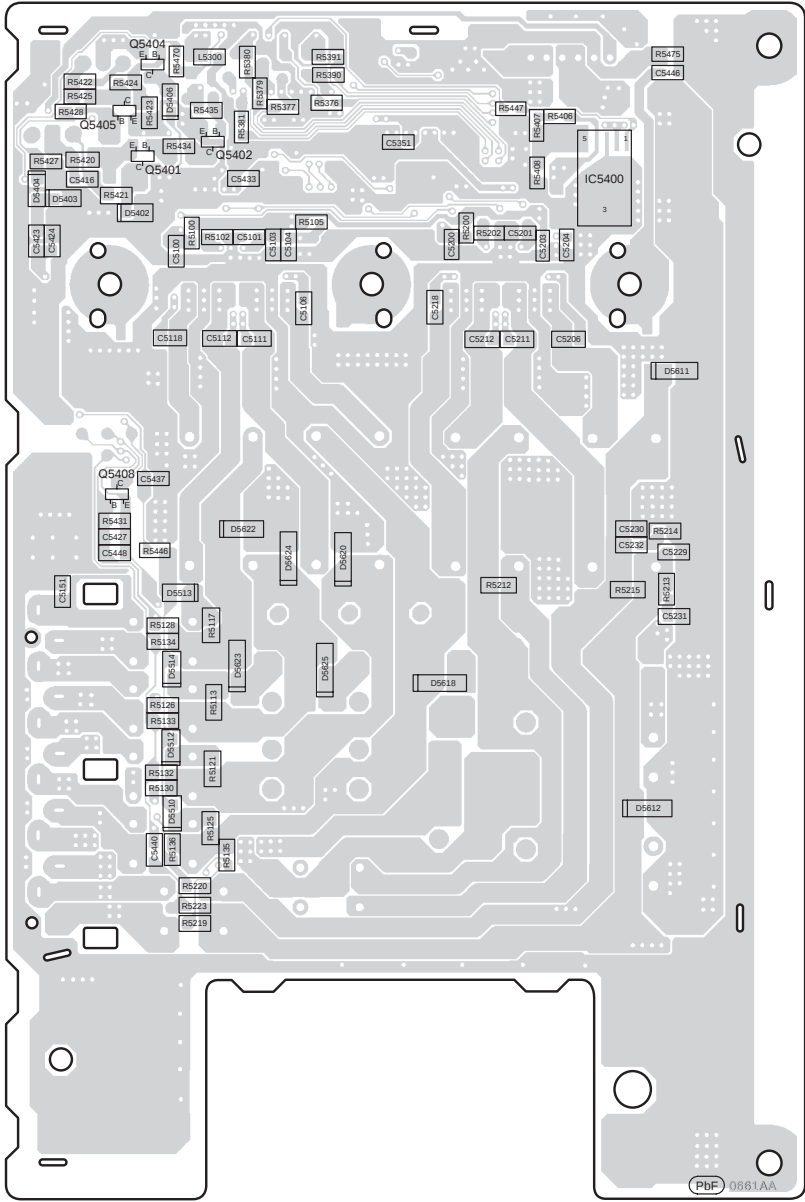


NOTE: " * " REF IS FOR INDICATION ONLY.

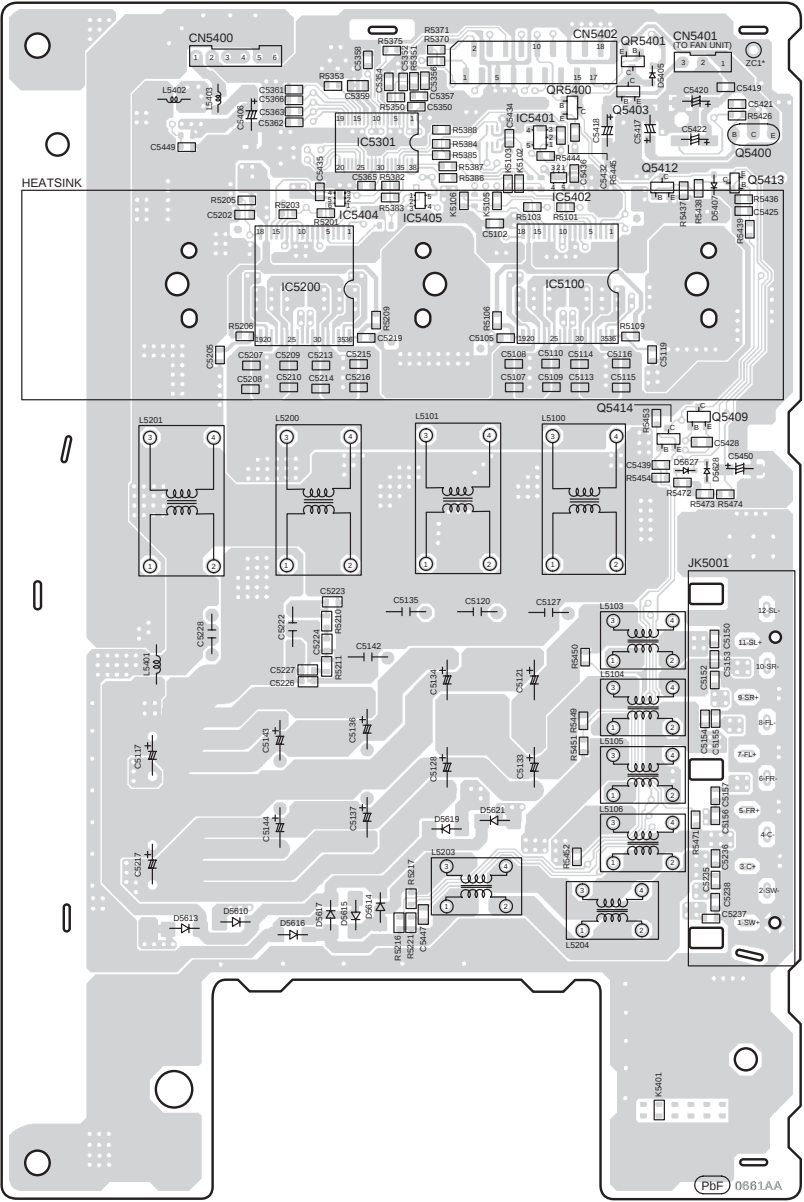
SA-BT228P
PANEL / POWER / POWER BUTTON / AC INLET P.C.B.

9.3. D-Amp P.C.B.

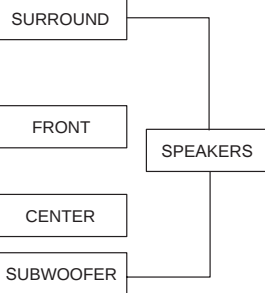
C D-AMP P.C.B. (REPX0799AA)



(SIDE A)



(SIDE B)



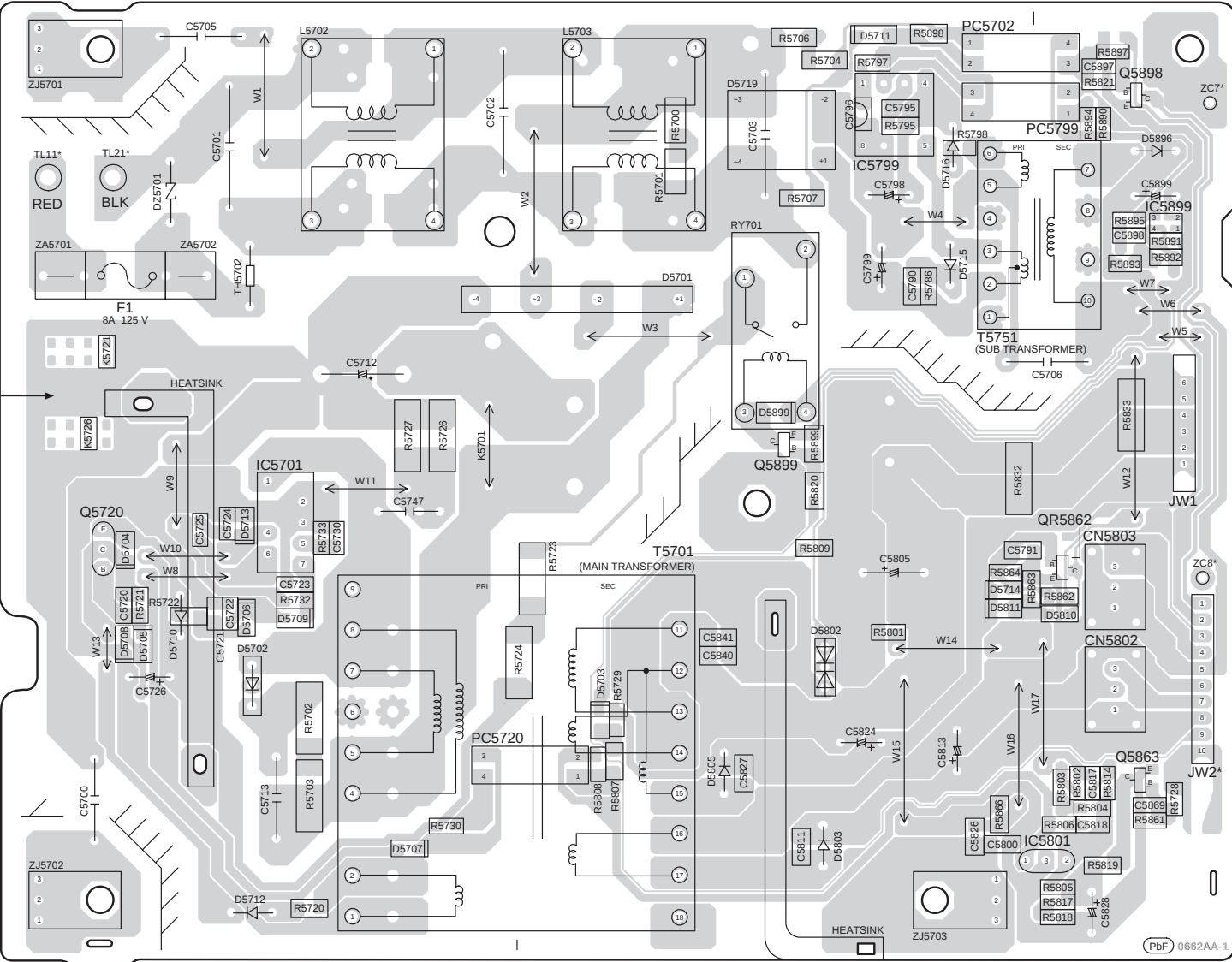
NOTE: " * " REF IS FOR INDICATION ONLY.

SA-BT228P
D-AMP P.C.B.

9.4. SMPS P.C.B.

D SMPS P.C.B. (REPX0803K)

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

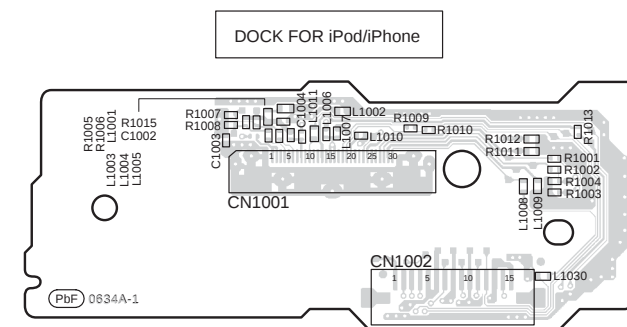
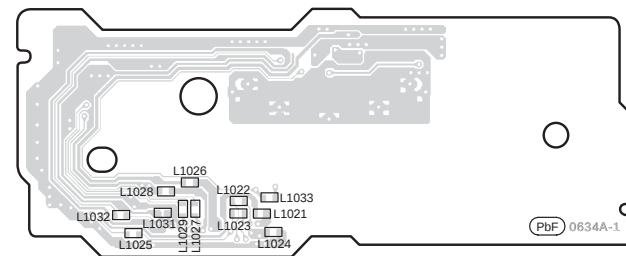


NOTE: " * " REF IS FOR INDICATION ONLY.

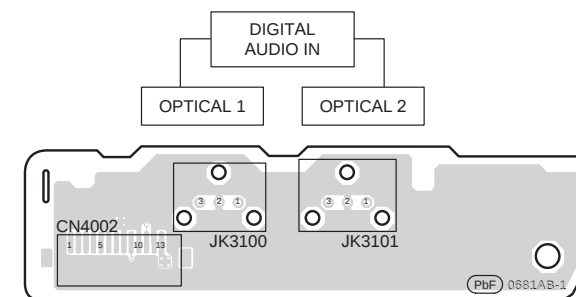
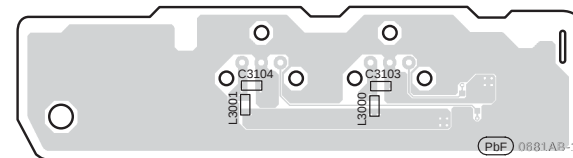
SA-BT228P
SMPS P.C.B.

9.5. iPod/iPhone & Optical In P.C.B.

H iPod/iPhone P.C.B. (REPX0790A)



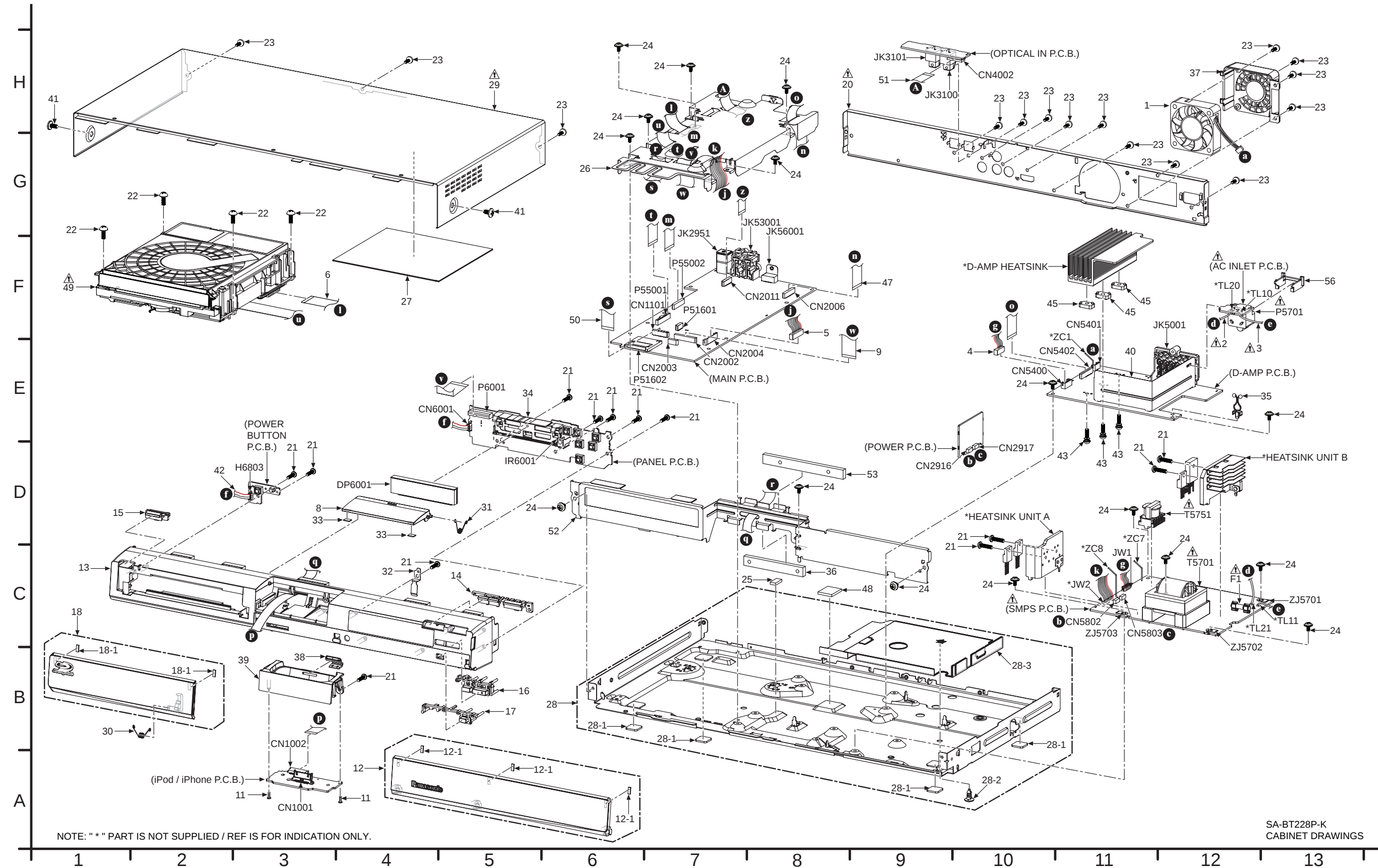
OPTICAL IN P.C.B. (REPX0794HB)

SA-BT228P
iPod/iPhone / OPTICAL IN P.C.B.

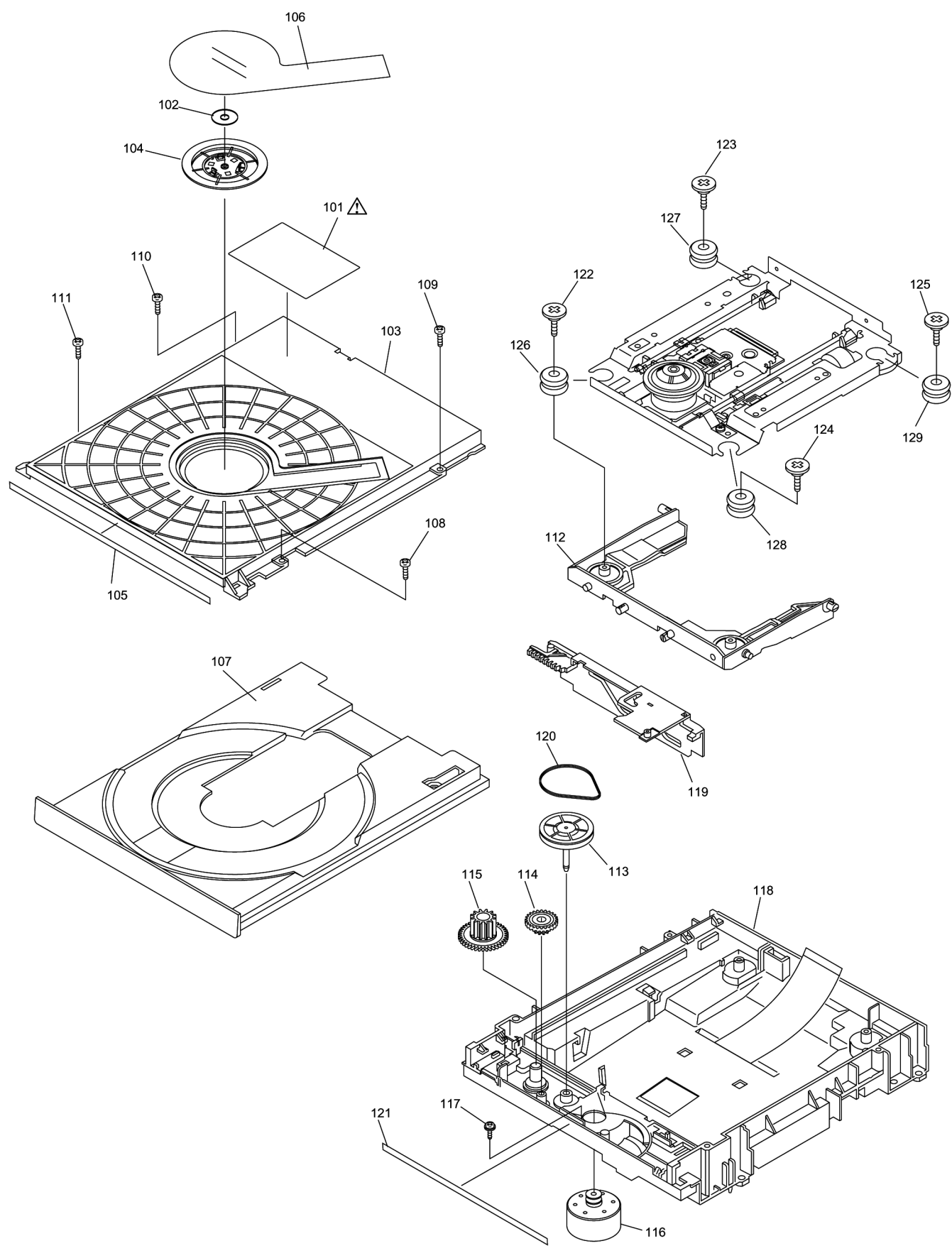
10 Exploded View and Replacement Parts List

10.1. Exploded View and Mechanical replacement Part List

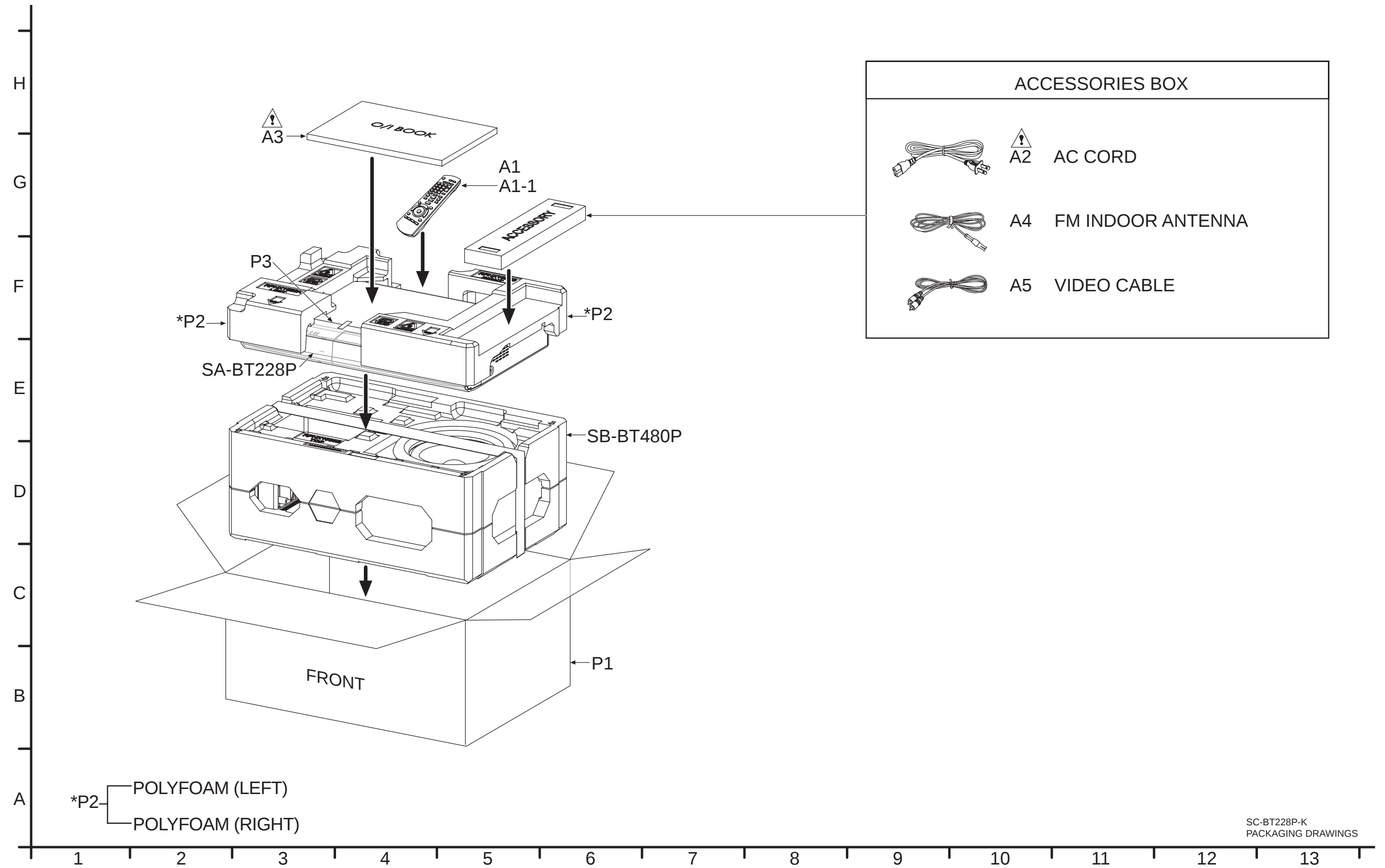
10.1.1. Cabinet Parts Location



10.1.2. Mechanism BD Drive



10.1.3. Packaging



10.1.4. Mechanical Replacement Part List

Important Safety Notice

Components identified by Δ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is Limited for this item.

After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

Note:

- When replacing any of these components, be sure to use only manufacturer's specified parts shown in the replacement part list.
- The parenthesized indications on the Remarks column specify the destination & product color (Refer to the cover page for the information).
- Parts without these indications shall be used for all areas.
- This product uses a laser diode. Refer to "Precaution of Laser Diode".
- All parts mentioned are supplied by PAVCSG unless indicated likewise.
- Parts mentioned [SPG] in the Remarks column are supplied by PAVC-CSG.
- Reference for O/I book languages are as follows:

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

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			CABINET AND CHASSIS		
	1	L6FAYYYH0079	FAN UNIT	1	
Δ	2	REXX1030	BLACK WIRE (AC-SMPS)	1	
Δ	3	REXX1031	RED WIRE (AC-SMPS)	1	
	4	REXX1036	6P CABLE WIRE (DAMP-SMPS)	1	
	5	REXX1037	10P CABLE WIRE (MAIN-SMPS)	1	
	6	REZ1998	18P FFC (MAIN-BD)	1	
	8	RGKX1003-K	CRADLE LID	1	
	9	REZ1997	22P FFC (MAIN - PANEL)	1	
	11	VHD1224-1	ADJ SPRING HOLDER SCREW	2	
	12	RYF0894G-K	FL LID UNIT	1	
	12-1	RMG0796-K	LID CUSHION	3	
	13	RFKGBT230P-K	FRONT PANEL ASS'Y	1	
	14	RGUX1001-K	OPEN CLOSE BUTTON	1	
	15	RGUX1003-K	POWER BUTTON	1	
	16	RGUX1005-K	PLAY STOP BUTTON	1	
	17	RGUX1006-K	SELECTOR BUTTON	1	
	18	RYF0893-K	TRAY LID UNIT	1	
	18-1	RMG0796-K	LID CUSHION	2	
Δ	20	RGRX1001P-A1	REAR PANEL	1	
	21	RHD26046	SCREW	13	
	22	RHD30102-1	SCREW	4	
	23	RHD30119-S	SCREW	15	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	24	RHDX301003	SCREW	16	
	25	RSC0854	RADIATOR SHEET B	1	
	26	RSC0927	DIGITAL PCB SHIELD	1	
	27	RXQX1026	TOP CABINET INSULATOR SHEET	1	
	28	RXX0625	CHASSIS UNIT	1	
	28-1	RKAX0028-K	LEG CUSHION	4	
	28-2	RMNX1026	PCB SUPPORT	1	
	28-3	RXQX1013	SMPS BOTTOM PC SHEET UNIT	1	
Δ	29	RKMX1002-K1	TOP CABINET	1	
	30	RMBX1004	DVD LID SPRING	1	
	31	RMXX1002	CRADLE LID SPRING	1	
	32	RMXX1003	FRONT LID SPRING PLATE	1	
	33	RMGX1002	CRADLE LID DAMPER	2	
	34	RMNX0329	FL HOLDER	1	
	35	RMNX1025	WIRE HOLDER	1	
	36	RMQX1037-L	GASKET	1	
	37	RMQX1006-K	FAN COVER	1	
	38	RMVX1003-K	CRADLE KEY	1	
	39	RMVX1004M-K	CRADLE COVER	1	
	40	RSXX1014-1	D-AMP PCB SHIELD	1	
	41	RHD30007-K2J	SCREW	2	
	42	RWJ1104390XX	4P CABLE WIRE (POWER BTN-PANEL)	1	
	43	RHDX261002	SCREW	3	
	45	RMZX1011	HEAT SINK SPACER	3	
	47	REEX1116	18P FFC (MAIN-DAMP)	1	
	48	RSC0839	RADIATOR SHEET A	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
⚠	49	RFKNBT230P	BD DRIVE / MAIN P.C.B ASS'Y	1	
	50	REZ1999	15P FFC (MAIN - iPod)	1	
	51	REZ2014	13P FFC (OPTICAL IN-MAIN))	1	
	52	RXQ1863-1	FRONT SHIELD UNIT	1	
	53	RSQ0111	TOP GASKET	1	
	56	RMN0941	AC INLET HOLDER	1	
⚠	101	VQL1V70-J	LASER CAUTION LABEL	1	
	102	VMA0V86	YOKE	1	
	103	VMD5751	UPPER BASE	1	
	104	VMD5752	CLAMPER	1	
	105	VMT1876-J	DUST COVER A	1	
	106	VMZ3737-J	CLAMP COVER	1	
	107	VXA8619	TRAY ASS'Y	1	
	108	XTV26+10GFJ	SCREW	1	
	109	XTV26+10GFJ	SCREW	1	
	110	XTV26+10GFJ	SCREW	1	
	111	XTV26+10GFJ	SCREW	1	
	112	VMD5753	MID BASE	1	
	113	VDG1713	PULLEY GEAR	1	
	114	VDG1714	MID BASE	1	
	115	VDG1715	DRIVER GEAR	1	
	116	VEM0867	LOADING MOTOR U	1	
	117	VHD1653-1	SCREW	1	
	118	VMD5748-1	MECHA CHASSIS	1	
	119	VMD5749	SLIDE CAM	1	
	120	VMG1809	BELT	1	
	121	VMT1877-J	DUST COVER B	1	
	122	VHD1518-1	SCREW	1	
	123	VHD1518-1	SCREW	1	
	124	VHD1518-1	SCREW	1	
	125	VHD1518-1	SCREW	1	
	126	VMG1883	DAMPER	1	
	127	VMG1883	DAMPER	1	
	128	VMG1883	DAMPER	1	
	129	VMG1883	DAMPER	1	
			PACKING MATERIALS		
	P1	RPGX3265	PACKING CASE	1	
	P2	RPNX1026	POLYFOAM	1	
	P3	RPFX1012	MIRAMAT SHEET	1	
			ACCESSORIES		
	A1	N2QAKB000092	REMOTE CONTROL	1	
	A1-1	RKK-PT470EBK	R/C BATTERY COVER	1	
⚠	A2	K2CB2CB00021	AC CORD	1	
⚠	A3	VQT2T10	O/I BOOK	1	
	A4	RSAX0002	FM INDOOR ANTENNA	1	
	A5	K2KA2BA00001	VIDEO CABLE	1	

10.2. Electrical Replacement Part List

Important Safety Notice

Components identified by Δ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is Limited for this item.

After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

Note:

- When replacing any of these components, be sure to use only manufacturer's specified parts shown in the replacement part list.
- The parenthesized indications on the Remarks column specify the destination & product color (Refer to the cover page for the information).
- Parts without these indications shall be used for all areas.
- This product uses a laser diode. Refer to "Precaution of Laser Diode".
- Capacitor value are in microfarads (uF) unless specified otherwise, P=Pico-farads (pF), F=Farads.
- Resistance values are in ohms, unless specified otherwise, 1K=1000 (OHM).
- All parts mentioned are supplied by PAVCSG unless indicated likewise.
- Parts mentioned [SPG] in the Remarks column are supplied by PAVC-CSG.

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			PRINTED CIRCUIT BOARDS		
Δ	PCB1	RFKNBT228P	MAIN P.C.B.	1	
	PCB2	REPX0799AA	D-AMP P.C.B.	1	(RTL)
	PCB3	REPX0799AB	POWER P.C.B.	1	(RTL)
Δ	PCB4	REPX0803K	SMPS P.C.B / AC INLET P.C.B.	1	(RTL)
	PCB5	REPX0790A	iPod/iPhone P.C.B.	1	(RTL)
	PCB6	REPX0825AA	PANEL P.C.B.	1	(RTL)
	PCB7	REPX0825AD	POWER BUTTON P.C.B.	1	(RTL)
	PCB8	REPX0794HB	OPTICAL IN P.C.B.	1	(RTL)
			INTEGRATED CIRCUITS		
	IC1001	C0DBZHE00026	IC	1	
	IC1101	C0ABAA000114	IC	1	
	IC1102	C0ABBB000189	IC	1	
	IC2001	C2HBCA000001	IC	1	
	IC2071	C0JBAR000434	IC	1	
	IC2201	C0ABBB000179	IC	1	
	IC2202	C0ABBB000179	IC	1	
	IC2300	RFKWMT230P	IC	1	
	IC2301	C3EBFC000042	IC	1	
	IC2302	C0CBABC00117	IC	1	
	IC2400	MFI341S2161	IC	1	
	IC2800	C0JBAR000540	IC	1	
	IC2901	C0DBAYY00729	IC	1	
	IC2952	VUEALLPT040	IC	1	
	IC5100	C1AB00003260	IC	1	
	IC5200	C1AB00003260	IC	1	
	IC5301	C1AB00002461	IC	1	
	IC5400	C0DBEKG00004	IC	1	
	IC5401	C0EBE0000456	IC	1	
	IC5402	C0JBAA000501	IC	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	IC5404	C0JBAB000837	IC	1	
	IC5405	C0JBAA000501	IC	1	
	IC5701	C5HACY000004	IC	1	
	IC5799	MIP2F20MSSCF	IC	1	
	IC5801	C0DABFC000002	IC	1	
	IC5899	C0DBZMC000006	IC	1	
	IC6001	C0HBB0000057	IC	1	
	IC7002	C0DBZYY00018	IC	1	
	IC7003	C0DBZHE00026	IC	1	
	IC54900	C0FBAK000026	IC	1	
	IC57000	C0JBAR000434	IC	1	
	IC57001	C0JBAR000434	IC	1	
			TRANSISTORS		
	Q1101	B1ABCF000176	TRANSISTOR	1	
	Q1102	B1ADCE000012	TRANSISTOR	1	
	Q1103	B1ADCE000012	TRANSISTOR	1	
	Q1104	B1CFHA000002	TRANSISTOR	1	
	Q1105	B1CFHA000002	TRANSISTOR	1	
	Q2800	B1GBCFJJ0051	TRANSISTOR	1	
	Q2805	B1GBCFJJ0051	TRANSISTOR	1	
	Q2902	B1CHPD000003	TRANSISTOR	1	
	Q2903	B1CHPD000003	TRANSISTOR	1	
	Q5400	B1BAAJ000003	TRANSISTOR	1	
	Q5401	B1ADCE000012	TRANSISTOR	1	
	Q5402	B1ABCF000011	TRANSISTOR	1	
	Q5403	B1ABCF000011	TRANSISTOR	1	
	Q5404	B1ABCF000011	TRANSISTOR	1	
	Q5405	B1ABCF000011	TRANSISTOR	1	
	Q5408	B1ABCF000011	TRANSISTOR	1	
	Q5409	B1ABCF000011	TRANSISTOR	1	
	Q5412	B1ABCF000011	TRANSISTOR	1	
	Q5413	B1ADBL000010	TRANSISTOR	1	
	Q5414	B1ABCF000011	TRANSISTOR	1	
	Q5720	B1BAAJ000003	TRANSISTOR	1	
	Q5863	B1ABGC000001	TRANSISTOR	1	
	Q5898	B1ABCF000176	TRANSISTOR	1	
	Q5899	B1ABCF000176	TRANSISTOR	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	Q6100	B1BABK000001	TRANSISTOR	1	
	Q6800	B1ABEB000002	TRANSISTOR	1	
	Q7004	B1ADNB000003	TRANSISTOR	1	
	Q7005	B1ADCE000012	TRANSISTOR	1	
	Q7006	B1ABMF000002	TRANSISTOR	1	
	Q7007	B1ABCF000176	TRANSISTOR	1	
	Q7008	B1ABCF000176	TRANSISTOR	1	
	Q7050	B1ABCF000176	TRANSISTOR	1	
	Q7071	B1ADNB000003	TRANSISTOR	1	
	Q56004	B1CFHA000002	TRANSISTOR	1	
	Q56005	B1CFHA000002	TRANSISTOR	1	
	QR1101	B1GBCFJJ0051	TRANSISTOR	1	
	QR1102	B1GBCFJJ0051	TRANSISTOR	1	
	QR5400	B1GBCFNN0038	TRANSISTOR	1	
	QR5401	B1GBCFNN0038	TRANSISTOR	1	
	QR5862	B1GBCFGG0030	TRANSISTOR	1	
	QR7001	B1GBCFGG0030	TRANSISTOR	1	
	QR7014	B1GBCFJJ0051	TRANSISTOR	1	
	QR7019	B1GBCFJJ0051	TRANSISTOR	1	
	QR7071	B1GBCFJJ0051	TRANSISTOR	1	
	QR7081	B1GBCFJJ0051	TRANSISTOR	1	
			DIODES		
	D2201	B0ACCK000005	DIODE	1	
	D2301	B0BC3R0A0262	DIODE	1	
	D2911	B0JCPG000005	DIODE	1	
	D2912	B0JCPG000005	DIODE	1	
	D5402	B0BC012A0269	DIODE	1	
	D5403	B0ACCK000005	DIODE	1	
	D5404	B0ACCK000005	DIODE	1	
	D5405	B0ACCK000005	DIODE	1	
	D5406	B0BC7R5A0268	DIODE	1	
	D5407	B0ACCK000005	DIODE	1	
	D5510	B0ACCK000005	DIODE	1	
	D5512	B0ACCK000005	DIODE	1	
	D5513	B0ACCK000005	DIODE	1	
	D5514	B0ACCK000005	DIODE	1	
	D5610	B0HCSP000001	DIODE	1	
	D5611	B0HCSP000001	DIODE	1	
	D5612	B0HCSP000001	DIODE	1	
	D5613	B0HCSP000001	DIODE	1	
	D5614	B0HCSP000001	DIODE	1	
	D5615	B0HCSP000001	DIODE	1	
	D5616	B0HCSP000001	DIODE	1	
	D5617	B0HCSP000001	DIODE	1	
	D5618	B0HCSP000001	DIODE	1	
	D5619	B0HCSP000001	DIODE	1	
	D5620	B0HCSP000001	DIODE	1	
	D5621	B0HCSP000001	DIODE	1	
	D5622	B0HCSP000001	DIODE	1	
	D5623	B0HCSP000001	DIODE	1	
	D5624	B0HCSP000001	DIODE	1	
	D5625	B0HCSP000001	DIODE	1	
	D5627	B0ACCK000005	DIODE	1	
	D5628	B0BC012A0269	DIODE	1	
	D5701	B0FBAR000043	DIODE	1	
	D5702	B0ZAZ0000052	DIODE	1	
	D5703	B0BC020A0267	DIODE	1	
	D5704	B0BC020A0267	DIODE	1	
	D5705	B0BC020A0267	DIODE	1	
	D5706	B0ACCK000005	DIODE	1	
	D5707	B0BC6R2A0266	DIODE	1	
	D5708	B0ACCK000005	DIODE	1	
	D5709	B0ACCK000005	DIODE	1	
	D5710	B0EAMM000057	DIODE	1	
	D5711	MA2YF8000L	DIODE	1	
	D5712	B0EAMM000057	DIODE	1	
	D5713	B0BC030A0264	DIODE	1	
	D5714	B0BC027A0264	DIODE	1	
	D5715	B0HAMP000094	DIODE	1	
	D5716	B0EAMM000057	DIODE	1	
	D5719	B0EDKT000009	DIODE	1	
	D5802	B0HBSM000054	DIODE	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	D5803	B0HFRJ000012	DIODE	1	
	D5805	B0EAMM000057	DIODE	1	
	D5810	B0ACCK000005	DIODE	1	
	D5811	B0BC5R1A0266	DIODE	1	
	D5896	B0EAMM000057	DIODE	1	
	D5899	B0ACCK000005	DIODE	1	
	D6100	B0JCMD000010	DIODE	1	
	D6101	B0BC024A0267	DIODE	1	
	D6102	B0JCMD000010	DIODE	1	
	D6103	B0BC2R4A0263	DIODE	1	
	D6104	B0HAJM000005	DIODE	1	
	D6800	B3ABA0000187	DIODE	1	
	D7013	B0ACCK000005	DIODE	1	
	D7016	B0ACCK000005	DIODE	1	
	D7017	B0ACCK000005	DIODE	1	
	D7018	B0ACCK000005	DIODE	1	
	D7020	B0ACCK000005	DIODE	1	
	D7021	B0ACCK000005	DIODE	1	
	D7022	B0ACCK000005	DIODE	1	
	D7023	B0BC027A0264	DIODE	1	
	D7024	B0BC5R1A0266	DIODE	1	
	D7031	B0BC7R5A0266	DIODE	1	
	D7033	B0BC6R8A0266	DIODE	1	
	D7035	B0BC010A0269	DIODE	1	
	D7036	B0BC6R8A0266	DIODE	1	
	D7037	B0BC010A0269	DIODE	1	
	D7038	B0BC013A0269	DIODE	1	
⚠	DZ5701	ERZV10V511CS	ZNR	1	
			VARISTORS		
	VA2951	EZAEG2A50AX	ESD SUPPRESSOR	1	
			SWITCHES		
	S6002	EVQ21405R	SW STOP	1	
	S6003	EVQ21405R	SW PLAY	1	
	S6005	EVQ21405R	SW VOL+	1	
	S6006	EVQ21405R	SW VOL-	1	
	S6007	EVQ21405R	SW SELECTOR	1	
	S6801	EVQ21405R	SW POWER	1	
	S6807	EVQ21405R	SW OPEN/CLOSE	1	
			CONNECTORS		
	CN1001	MFI514S0117	30P CONNECTOR	1	
	CN1002	K1MN15BA0139	15P CONNECTOR	1	
	CN1101	K1MN15AA0046	15P CONNECTOR	1	
	CN2002	K1MN22AA0046	22P CONNECTOR	1	
	CN2003	K1MN10AA0076	10P CONNECTOR	1	
	CN2004	K1KA10A00430	10P CONNECTOR	1	
	CN2006	K1MN18AA0046	18P CONNECTOR	1	
	CN2011	K1MN13AA0076	13P CONNECTOR	1	
	CN2916	K1KA03BA0116	3P CONNECTOR	1	
	CN2917	K1KA03BA0116	3P CONNECTOR	1	
	CN4002	K1MN13BA0147	13P CONNECTOR	1	
	CN5400	K1KA06A00452	6P CONNECTOR	1	
	CN5401	K1KA03AA0301	3P CONNECTOR	1	
	CN5402	K1MN18AA0046	18P CONNECTOR	1	
	CN5802	K1KA03AA0292	3P CONNECTOR	1	
	CN5803	K1KA03AA0292	3P CONNECTOR	1	
	CN6001	K1YZ04000002	4P CABLE HOLDER	1	
	P6001	K1MN22AA0004	22P CONNECTOR	1	
			COILS AND INDUC-TORS		
	L1001	J0JFC0000006	INDUCTOR	1	
	L1002	J0JFC0000006	INDUCTOR	1	
	L1003	J0JGC0000071	INDUCTOR	1	
	L1004	J0JGC0000071	INDUCTOR	1	
	L1005	J0JGC0000071	INDUCTOR	1	
	L1006	J0JGC0000071	INDUCTOR	1	
	L1007	J0JGC0000071	INDUCTOR	1	
	L1008	J0JFC0000006	INDUCTOR	1	
	L1009	J0JFC0000006	INDUCTOR	1	
	L1010	J0JGC0000071	INDUCTOR	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	L1011	J0JFC0000006	INDUCTOR	1	
	L1032	J0JBC0000015	INDUCTOR	1	
	L2072	G1C100M00049	INDUCTOR	1	
	L2902	G0A200D00002	CHOKE COIL	1	
	L2903	G0A330ZA0045	CHOKE COIL	1	
	L2904	G0A330ZA0045	CHOKE COIL	1	
	L2907	J0JHC0000107	INDUCTOR	1	
	L2908	J0JHC0000107	INDUCTOR	1	
	L2951	G1CR18JA0020	INDUCTOR	1	
	L3000	G1C100K00019	INDUCTOR	1	
	L3001	G1C100K00019	INDUCTOR	1	
	L5100	G0C100M00006	INDUCTOR	1	
	L5101	G0C100M00006	INDUCTOR	1	
	L5103	G0B9R5K00005	LINE FILTER	1	
	L5104	G0B9R5K00005	LINE FILTER	1	
	L5105	G0B9R5K00005	LINE FILTER	1	
	L5106	G0B9R5K00005	LINE FILTER	1	
	L5200	G0C100M00006	INDUCTOR	1	
	L5201	G0C100M00006	INDUCTOR	1	
	L5203	G0B9R5K00005	LINE FILTER	1	
	L5204	G0B9R5K00005	LINE FILTER	1	
	L5300	J0JBC0000015	INDUCTOR	1	
	L5401	J0JKB0000003	INDUCTOR	1	
	L5402	J0JKB0000003	INDUCTOR	1	
	L5403	G1C4R7MA0172	INDUCTOR	1	
△	L5702	G0B612H00002	LINE FILTER	1	
△	L5703	G0B932H00002	LINE FILTER	1	
	L6006	J0JBC0000014	INDUCTOR	1	
	L6007	J0JBC0000014	INDUCTOR	1	
	L6100	J0JBC0000041	INDUCTOR	1	
	L6101	G0C390JA0055	INDUCTOR	1	
	L7014	G1C4R7MA0172	INDUCTOR	1	
	LB1101	J0JYC0000070	INDUCTOR	1	
	LB1107	J0JHC0000014	INDUCTOR	1	
	LB1109	J0JCC0000316	INDUCTOR	1	
	LB1113	J0JHC0000014	INDUCTOR	1	
	LB1114	J0JCC0000317	INDUCTOR	1	
	LB2039	J0JCC0000396	INDUCTOR	1	
	LB2071	J0JCC0000396	INDUCTOR	1	
	LB2072	J0JGC0000020	INDUCTOR	1	
	LB2092	J0JGC0000020	INDUCTOR	1	
	LB2301	J0JGC0000020	INDUCTOR	1	
	LB2818	J0JHC0000014	INDUCTOR	1	
	LB2819	J0JHC0000014	INDUCTOR	1	
	LB2820	J0JHC0000014	INDUCTOR	1	
	LB2821	J0JHC0000014	INDUCTOR	1	
	LB2823	J0JHC0000014	INDUCTOR	1	
	LB2831	J0JHC0000014	INDUCTOR	1	
	LB2834	J0JHC0000014	INDUCTOR	1	
	LB2835	J0JHC0000014	INDUCTOR	1	
	LB2836	J0JHC0000014	INDUCTOR	1	
	LB2837	J0JHC0000014	INDUCTOR	1	
	LB2838	J0JHC0000014	INDUCTOR	1	
	LB2839	J0JHC0000014	INDUCTOR	1	
	LB2840	J0JHC0000014	INDUCTOR	1	
	LB2841	J0JHC0000014	INDUCTOR	1	
	LB2842	J0JHC0000014	INDUCTOR	1	
	LB2843	J0JHC0000014	INDUCTOR	1	
	LB2845	J0JHC0000014	INDUCTOR	1	
	LB2951	J0JBC0000032	INDUCTOR	1	
	LB3909	J0JHC0000045	INDUCTOR	1	
	LB7006	J0JHC0000107	INDUCTOR	1	
	LB7007	J0JHC0000107	INDUCTOR	1	
	LB7009	J0JGC0000020	INDUCTOR	1	
	LB7012	J0JHC0000107	INDUCTOR	1	
	LB7013	J0JHC0000107	INDUCTOR	1	
	LB7041	J0JGC0000020	INDUCTOR	1	
	LB7042	J0JGC0000020	INDUCTOR	1	
	LB54900	J0JCC0000317	INDUCTOR	1	
	LB54901	J0JCC0000317	INDUCTOR	1	
	LB56502	J0JFC0000008	INDUCTOR	1	
	LB57000	J0JGC0000020	INDUCTOR	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			TRANSFORMERS		
△	T5701	ETS42BM1GGAC	TRANSFORMER	1	
△	T5751	ETS19AB2A6AG	SUB TRANSFORMER	1	
△	T6100	G4D1A0000142	SWITCHING TRANSFORMER	1	
			PHOTO COUPLERS		
△	PC5702	B3PBA0000402	PHOTO COUPLER	1	
△	PC5720	B3PBA0000402	PHOTO COUPLER	1	
△	PC5799	B3PBA0000402	PHOTO COUPLER	1	
			EARTH TERMINALS		
	ZJ5701	K4CZ01000027	TERMINAL	1	
	ZJ5702	K4CZ01000027	TERMINAL	1	
	ZJ5703	K4CZ01000027	TERMINAL	1	
			COMPONENT COMBINATION		
	IR6001	B3RAB0000081	IR SENSOR	1	
			OSCILLATORS		
	X2300	H2D500400006	CRYSTAL OSCILLATOR	1	
	X2301	H0J327200115	CRYSTAL OSCILLATOR	1	
	X2951	H0A327200097	CRYSTAL OSCILLATOR	1	
			FUSE		
△	F1	K5D802APA008	FUSE	1	
			RELAY		
△	RY701	K6B1AEA00003	RELAY	1	
			FL DISPLAY		
	DP6001	A2BB00000175	LCD DISPLAY	1	
			HOLDERS		
	H6803	K1YZ04000002	4P CABLE HOLDER	1	
	JW1	K1YZ06000002	WIRE HOLDER	1	
			FUSE HOLDERS		
	ZA5701	K3GE1ZZ00001	FUSE HOLDER	1	
	ZA5702	K3GE1ZZ00001	FUSE HOLDER	1	
			THERMISTORS		
△	TH5702	D4CAA2R20001	THERMISTOR	1	
			JACKS		
	JK2951	K4ZZ01000276	JK FM ANT	1	
	JK3100	B3RAB0000056	JK DIGITAL AUDIO OPTICAL 1	1	
	JK3101	B3RAB0000056	JK DIGITAL AUDIO OPTICAL 2	1	
	JK5001	K4AZ12A00005	JK SPEAKER	1	
△	P5701	K2AB2B000007	AC INLET	1	
			CHIP JUMPERS		
	K5102	D0GBR00JA008	0 1/16W	1	
	K5103	D0GBR00JA008	0 1/16W	1	
	K5105	D0GBR00JA008	0 1/16W	1	
	K5106	D0GBR00JA008	0 1/16W	1	
	K5401	D0GBR00JA008	0 1/16W	1	
	K5721	D0GBR00JA008	0 1/16W	1	
	K5726	D0GBR00JA008	0 1/16W	1	
	L1021	D0GBR00JA008	0 1/16W	1	
	L1022	D0GBR00JA008	0 1/16W	1	
	L1023	D0GBR00JA008	0 1/16W	1	
	L1024	D0GBR00JA008	0 1/16W	1	
	L1025	D0GBR00JA008	0 1/16W	1	
	L1026	D0GBR00JA008	0 1/16W	1	
	L1027	D0GBR00JA008	0 1/16W	1	
	L1028	D0GBR00JA008	0 1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	L1029	D0GBR00JA008	0 1/16W	1	
	L1030	D0GBR00JA008	0 1/16W	1	
	L1031	D0GBR00JA008	0 1/16W	1	
	L1033	D0GBR00JA008	0 1/16W	1	
	L6005	D0GBR00JA008	0 1/16W	1	
	L6803	D0GBR00JA008	0 1/16W	1	
	L6804	D0GBR00JA008	0 1/16W	1	
	L6805	D0GBR00JA008	0 1/16W	1	
	L6806	D0GBR00JA008	0 1/16W	1	
	LB1102	ERJ2GE0R00X	0 1/16W	1	
	LB1103	ERJ2GE0R00X	0 1/16W	1	
	LB1104	ERJ2GE0R00X	0 1/16W	1	
	LB1105	ERJ2GE0R00X	0 1/16W	1	
	LB1106	ERJ2GE0R00X	0 1/16W	1	
	LB1108	ERJ2GE0R00X	0 1/16W	1	
	LB2570	D0GBR00JA008	0 1/16W	1	
	LB2571	D0GBR00JA008	0 1/16W	1	
	LB2801	ERJ2GE0R00X	0 1/16W	1	
	LB2802	ERJ2GE0R00X	0 1/16W	1	
	LB2803	ERJ2GE0R00X	0 1/16W	1	
	LB2804	ERJ2GE0R00X	0 1/16W	1	
	LB2805	ERJ2GE0R00X	0 1/16W	1	
	LB2806	ERJ2GE0R00X	0 1/16W	1	
	LB2807	ERJ2GE0R00X	0 1/16W	1	
	LB2808	ERJ2GE0R00X	0 1/16W	1	
	W201	D0GFR00JA017	0 1/10W	1	
	W202	D0GFR00JA017	0 1/10W	1	
	W203	D0GDR00JA017	0 1/10W	1	
	W6051	D0GDR00JA017	0 1/10W	1	
	W6052	D0GDR00JA017	0 1/10W	1	
	W6054	D0GDR00JA017	0 1/10W	1	
	W6056	D0GDR00JA017	0 1/10W	1	
	W6057	D0GBR00JA008	0 1/16W	1	
	W6058	D0GDR00JA017	0 1/10W	1	
	W6059	D0GBR00JA008	0 1/16W	1	
	W6060	D0GDR00JA017	0 1/10W	1	
	W6061	D0GBR00JA008	0 1/16W	1	
	W6062	D0GBR00JA008	0 1/16W	1	
	W6063	D0GDR00JA017	0 1/10W	1	
	W6064	D0GDR00JA017	0 1/10W	1	
	W6065	D0GDR00JA017	0 1/10W	1	
	W6066	D0GDR00JA017	0 1/10W	1	
	W6077	D0GDR00JA017	0 1/10W	1	
	W6078	D0GDR00JA017	0 1/10W	1	
	W6079	D0GBR00JA008	0 1/16W	1	
	W6080	D0GDR00JA017	0 1/10W	1	
	W6081	D0GBR00JA008	0 1/16W	1	
			RESISTORS		
	LB1111	D0GA471JA023	470 1/16W	1	
	LB1112	D0GA471JA023	470 1/16W	1	
	R1001	D0GA221JA023	220 1/16W	1	
	R1002	D0GA221JA023	220 1/16W	1	
	R1003	D0GA104JA023	100K 1/16W	1	
	R1004	D0GA104JA023	100K 1/16W	1	
	R1005	D0GA753JA015	75K 1/16W	1	
	R1006	D0GA753JA015	75K 1/16W	1	
	R1007	ERJ2GEJ513X	51K 1/16W	1	
	R1008	ERJ2GEJ513X	51K 1/16W	1	
	R1009	ERJ2GEJ151X	150 1/16W	1	
	R1010	ERJ2GEJ151X	150 1/16W	1	
	R1011	J0JFC0000006	INDUCTOR	1	
	R1012	D0GBR00JA008	0 1/16W	1	
	R1013	D0GA102JA023	1K 1/16W	1	
	R1015	D0GBR00JA008	0 1/16W	1	
	R1101	ERJ3RED334V	330K 1/16W	1	
	R1102	ERJ2GEJ274X	270K 1/16W	1	
	R1103	ERJ3RED224V	220K 1/16W	1	
	R1104	ERJ2GEJ564X	560K 1/16W	1	
	R1105	D0GA104JA023	100K 1/16W	1	
	R1106	D0GA472JA023	4.7K 1/16W	1	
	R1107	D0GA473JA023	47K 1/16W	1	
	R1108	D0GA473JA023	47K 1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R1109	D0GA472JA023	4.7K 1/16W	1	
	R1110	D0GA104JA023	100K 1/16W	1	
	R1111	ERJ2GEJ750X	75 1/16W	1	
	R1112	D0GA101JA023	100 1/16W	1	
	R1113	D0GA101JA023	100 1/16W	1	
	R1114	D0GA223JA023	22K 1/16W	1	
	R1115	D0GA223JA023	22K 1/16W	1	
	R1116	D0GA101JA023	100 1/16W	1	
	R1118	D0GA223JA023	22K 1/16W	1	
	R1119	D0GA223JA023	22K 1/16W	1	
	R1120	D0GA223JA023	22K 1/16W	1	
	R1121	D0GA223JA023	22K 1/16W	1	
	R1122	D0GA102JA023	1K 1/16W	1	
	R1123	D0GA102JA023	1K 1/16W	1	
	R1124	D0GA101JA023	100 1/16W	1	
	R1125	D0GA101JA023	100 1/16W	1	
	R1127	J0JCC0000316	INDUCTOR	1	
	R1128	J0JCC0000316	INDUCTOR	1	
	R1131	D0GD470JA017	47 1/10W	1	
	R1132	D0GA104JA023	100K 1/16W	1	
	R1133	D0GA104JA023	100K 1/16W	1	
	R1141	D0GA221JA023	220 1/16W	1	
	R1151	D0GA471JA023	470 1/16W	1	
	R1152	D0GA471JA023	470 1/16W	1	
	R1153	D0GA471JA023	470 1/16W	1	
	R2031	D0GA330JA023	33 1/16W	1	
	R2032	D0GA330JA023	33 1/16W	1	
	R2033	D0GA330JA023	33 1/16W	1	
	R2034	D0GA330JA023	33 1/16W	1	
	R2035	D0GA330JA023	33 1/16W	1	
	R2036	D0GA330JA023	33 1/16W	1	
	R2041	D0GA221JA023	220 1/16W	1	
	R2042	D0GA221JA023	220 1/16W	1	
	R2043	D0GA221JA023	220 1/16W	1	
	R2044	D0GA221JA023	220 1/16W	1	
	R2045	D0GA470JA023	47 1/16W	1	
	R2046	D0GA103JA023	10K 1/16W	1	
	R2051	ERJ2GE0R00X	0 1/16W	1	
	R2053	D0GA152JA023	1.5K 1/16W	1	
	R2054	D0GA470JA023	47 1/16W	1	
	R2055	D0GA470JA023	47 1/16W	1	
	R2056	D0GA470JA023	47 1/16W	1	
	R2057	D0GA470JA023	47 1/16W	1	
	R2058	D0GA470JA023	47 1/16W	1	
	R2059	D0GA470JA023	47 1/16W	1	
	R2060	D0GA470JA023	47 1/16W	1	
	R2071	D0GA330JA023	33 1/16W	1	
	R2072	D0GA330JA023	33 1/16W	1	
	R2074	D0GA470JA023	47 1/16W	1	
	R2075	D0GA470JA023	47 1/16W	1	
	R2081	D0GA470JA023	47 1/16W	1	
	R2082	D0GA470JA023	47 1/16W	1	
	R2083	D0GA470JA023	47 1/16W	1	
	R2084	D0GA470JA023	47 1/16W	1	
	R2085	D0GA470JA023	47 1/16W	1	
	R2086	D0GA470JA023	47 1/16W	1	
	R2090	D0GA221JA023	220 1/16W	1	
	R2093	D0GA221JA023	220 1/16W	1	
	R2094	D0GA221JA023	220 1/16W	1	
	R2098	D0GBR00JA008	0 1/16W	1	
	R2171	D0GA330JA023	33 1/16W	1	
	R2172	D0GA330JA023	33 1/16W	1	
	R2173	D0GA330JA023	33 1/16W	1	
	R2174	D0GA330JA023	33 1/16W	1	
	R2175	ERJ2GE0R00X	0 1/16W	1	
	R2176	ERJ2GE0R00X	0 1/16W	1	
	R2177	ERJ2GE0R00X	0 1/16W	1	
	R2178	ERJ2GE0R00X	0 1/16W	1	
	R2181	D0GA221JA023	220 1/16W	1	
	R2182	D0GA221JA023	220 1/16W	1	
	R2183	D0GA221JA023	220 1/16W	1	
	R2184	D0GA221JA023	220 1/16W	1	
	R2201	D0GA104JA023	100K 1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R2202	D0GA104JA023	100K 1/16W	1	
	R2203	D0GA104JA023	100K 1/16W	1	
	R2204	D0GA104JA023	100K 1/16W	1	
	R2205	D0GA104JA023	100K 1/16W	1	
	R2206	D0GA682JA023	6.8K 1/16W	1	
	R2207	D0GA104JA023	100K 1/16W	1	
	R2208	D0GA103JA023	10K 1/16W	1	
	R2209	D0GA103JA023	10K 1/16W	1	
	R2210	D0GA101JA023	100 1/16W	1	
	R2211	D0GA103JA023	10K 1/16W	1	
	R2212	D0GA103JA023	10K 1/16W	1	
	R2213	D0GA102JA023	1K 1/16W	1	
	R2214	D0GA104JA023	100K 1/16W	1	
	R2215	D0GA103JA023	10K 1/16W	1	
	R2301	D0GA473JA023	47K 1/16W	1	
	R2302	D0GA222JA023	2.2K 1/16W	1	
	R2304	D0GA331JA023	330 1/16W	1	
	R2305	D0GA473JA023	47K 1/16W	1	
	R2310	D0GA103JA023	10K 1/16W	1	
	R2311	D0GA103JA023	10K 1/16W	1	
	R2315	ERJ2GEJ154X	150K 1/16W	1	
	R2318	D0GA102JA023	1K 1/16W	1	
	R2320	D0GA331JA023	330 1/16W	1	
	R2321	D0GA331JA023	330 1/16W	1	
	R2322	D0GA104JA023	100K 1/16W	1	
	R2323	D0GA104JA023	100K 1/16W	1	
	R2325	D0GA472JA023	4.7K 1/16W	1	
	R2326	D0GA472JA023	4.7K 1/16W	1	
	R2327	D0GA104JA023	100K 1/16W	1	
	R2328	D0GA103JA023	10K 1/16W	1	
	R2330	D0GA103JA023	10K 1/16W	1	
	R2331	D0GA103JA023	10K 1/16W	1	
	R2332	D0GA473JA023	47K 1/16W	1	
	R2333	D0GA473JA023	47K 1/16W	1	
	R2335	D0GA473JA023	47K 1/16W	1	
	R2341	D0GA473JA023	47K 1/16W	1	
	R2342	D0GA473JA023	47K 1/16W	1	
	R2343	D0GA331JA023	330 1/16W	1	
	R2345	D0GA103JA023	10K 1/16W	1	
	R2346	D0GA103JA023	10K 1/16W	1	
	R2352	D0GA103JA023	10K 1/16W	1	
	R2356	D0GA103JA023	10K 1/16W	1	
	R2359	D0GA103JA023	10K 1/16W	1	
	R2361	D0GA473JA023	47K 1/16W	1	
	R2364	ERJ2GE0R00X	0 1/16W	1	
	R2366	D0GA101JA023	100 1/16W	1	
	R2367	D0GA101JA023	100 1/16W	1	
	R2370	D0GA331JA023	330 1/16W	1	
	R2374	D0GA331JA023	330 1/16W	1	
	R2375	D0GA331JA023	330 1/16W	1	
	R2378	D0GA331JA023	330 1/16W	1	
	R2379	D0GA331JA023	330 1/16W	1	
	R2381	D0GA331JA023	330 1/16W	1	
	R2382	D0GA331JA023	330 1/16W	1	
	R2386	D0GA472JA023	4.7K 1/16W	1	
	R2387	D0GA472JA023	4.7K 1/16W	1	
	R2388	D0GA473JA023	47K 1/16W	1	
	R2395	D0GA331JA023	330 1/16W	1	
	R2396	D0GA331JA023	330 1/16W	1	
	R2397	D0GA331JA023	330 1/16W	1	
	R2399	D0GA331JA023	330 1/16W	1	
	R2400	D0GA330JA023	33 1/16W	1	
	R2401	ERJ2GE0R00X	0 1/16W	1	
	R2402	ERJ2GE0R00X	0 1/16W	1	
	R2406	ERJ2GE0R00X	0 1/16W	1	
	R2407	ERJ2GE0R00X	0 1/16W	1	
	R2411	D0GA103JA023	10K 1/16W	1	
	R2412	D0GA103JA023	10K 1/16W	1	
	R2570	D0GB103JA008	10K 1/16W	1	
	R2571	D0GB103JA008	10K 1/16W	1	
	R2800	D0GA103JA023	10K 1/16W	1	
	R2801	D0GA103JA023	10K 1/16W	1	
	R2806	D0GA102JA023	1K 1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R2807	D0GA102JA023	1K 1/16W	1	
	R2810	D0GA102JA023	1K 1/16W	1	
	R2811	D0GA102JA023	1K 1/16W	1	
	R2812	D0GA473JA023	47K 1/16W	1	
	R2813	D0GA473JA023	47K 1/16W	1	
	R2814	D0GA102JA023	1K 1/16W	1	
	R2815	D0GA103JA023	10K 1/16W	1	
	R2816	D0GA103JA023	10K 1/16W	1	
	R2817	D0GA102JA023	1K 1/16W	1	
	R2821	D0GA473JA023	47K 1/16W	1	
	R2822	D0GA473JA023	47K 1/16W	1	
	R2823	D0GA102JA023	1K 1/16W	1	
	R2824	D0GA102JA023	1K 1/16W	1	
	R2905	D0GBR00JA008	0 1/16W	1	
	R2906	D0GBR00JA008	0 1/16W	1	
	R2907	D0GBR00JA008	0 1/16W	1	
	R2908	ERJ3RBD1002V	10 1/16W	1	
	R2909	D0GBR00JA008	0 1/16W	1	
	R2914	D0GB223JA008	22K 1/16W	1	
	R2915	D0GBR00JA008	0 1/16W	1	
	R2916	D0GB223JA008	22K 1/16W	1	
	R2917	D0GB223JA008	22K 1/16W	1	
	R2918	D0GB332JA008	3.3K 1/16W	1	
	R2919	D1BDR012A116	0.012 1/3W	1	
	R2920	D0GB822JA008	8.2K 1/16W	1	
	R2921	ERJ3RBD3902V	39 1/16W	1	
	R2922	D1BDR015A116	0.015 1/3W	1	
	R2923	D0GB222JA008	2.2K 1/16W	1	
	R2924	ERJ3RBD5601V	56 1/16W	1	
	R2925	ERJ3RBD5602V	56 1/16W	1	
	R2926	D0GB822JA008	8.2K 1/16W	1	
	R2927	D0GB103JA008	10K 1/16W	1	
	R2929	ERJ3RBD3301V	33 1/16W	1	
	R2930	ERJ3RBD2701V	27 1/16W	1	
	R2951	D0GB102JA008	1K 1/16W	1	
	R2952	D0GB102JA008	1K 1/16W	1	
	R2953	D0GA472JA023	4.7K 1/16W	1	
	R2954	D0GA472JA023	4.7K 1/16W	1	
	R2955	D0GA221JA023	220 1/16W	1	
	R2955	D0GBR00JA008	0 1/16W	1	
	R2956	D0GB153JA008	15K 1/10W	1	
	R2956	D0GB472JA008	4.7K 1/16W	1	
	R2957	D0GA102JA023	1K 1/16W	1	
	R2959	D0GB222JA008	2.2K 1/16W	1	
	R2961	D0GB473JA008	47K 1/16W	1	
	R2962	D0GB473JA008	47K 1/16W	1	
	R2963	D0GBR00JA008	0 1/16W	1	
	R2964	D0GBR00JA008	0 1/16W	1	
	R5100	D0GB100JA008	10 1/16W	1	
	R5101	D0GB101JA008	100 1/16W	1	
	R5102	D0GB223JA008	22K 1/16W	1	
	R5103	D0GB101JA008	100 1/16W	1	
	R5105	D0GB100JA008	10 1/16W	1	
	R5106	D0GB100JA008	10 1/16W	1	
	R5109	D0GB100JA008	10 1/16W	1	
	R5113	D0GD562JA017	5.6K 1/10W	1	
	R5117	D0GD562JA017	5.6K 1/10W	1	
	R5121	D0GD562JA017	5.6K 1/10W	1	
	R5125	D0GD562JA017	5.6K 1/10W	1	
	R5126	D0GB104JA008	100K 1/16W	1	
	R5128	D0GB104JA008	100K 1/16W	1	
	R5130	D0GB104JA008	100K 1/16W	1	
	R5132	D0GB562JA008	5.6K 1/16W	1	
	R5133	D0GB562JA008	5.6K 1/16W	1	
	R5134	D0GB562JA008	5.6K 1/16W	1	
	R5135	D0GB562JA008	5.6K 1/16W	1	
	R5136	D0GB104JA008	100K 1/16W	1	
	R5200	D0GB100JA008	10 1/16W	1	
	R5201	D0GB101JA008	100 1/16W	1	
	R5202	D0GB223JA008	22K 1/16W	1	
	R5203	D0GB101JA008	100 1/16W	1	
	R5205	D0GB100JA008	10 1/16W	1	
	R5206	D0GB100JA008	10 1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R5209	D0GB100JA008	10 1/16W	1	
	R5210	ERJ3GEYJ3R3V	3.3 1/10W	1	
	R5211	ERJ3GEYJ3R3V	3.3 1/10W	1	
	R5212	D0GD103JA017	10K 1/10W	1	
	R5213	ERJ3GEYJ3R3V	3.3 1/10W	1	
	R5214	ERJ3GEYJ3R3V	3.3 1/10W	1	
	R5215	D0GD103JA017	10K 1/10W	1	
	R5216	D0GB104JA008	100K 1/16W	1	
	R5217	D0GB104JA008	100K 1/16W	1	
	R5219	D0GB104JA008	100K 1/16W	1	
	R5220	D0GB104JA008	100K 1/16W	1	
	R5221	D0GB562JA008	5.6K 1/16W	1	
	R5223	D0GB562JA008	5.6K 1/16W	1	
	R5350	ERJ3GEYJ201V	200 1/10W	1	
	R5351	ERJ3GEYJ201V	200 1/10W	1	
	R5353	ERJ3EKF1822V	1.8K 1W	1	
	R5370	D0GB331JA008	330 1/16W	1	
	R5371	D0GB331JA008	330 1/16W	1	
	R5375	D0GB470JA008	47 1/16W	1	
	R5376	D0GB470JA008	47 1/16W	1	
	R5377	D0GB470JA008	47 1/16W	1	
	R5379	D0GB470JA008	47 1/16W	1	
	R5380	D0GB470JA008	47 1/16W	1	
	R5381	D0GB470JA008	47 1/16W	1	
	R5382	D0GB470JA008	47 1/16W	1	
	R5383	D0GB470JA008	47 1/16W	1	
	R5384	D0GB470JA008	47 1/16W	1	
	R5385	D0GB470JA008	47 1/16W	1	
	R5386	D0GB470JA008	47 1/16W	1	
	R5387	D0GB470JA008	47 1/16W	1	
	R5388	D0GB470JA008	47 1/16W	1	
	R5390	D0GB331JA008	330 1/16W	1	
	R5391	D0GB331JA008	330 1/16W	1	
	R5406	ERJ3RBD104V	100K 1/16W	1	
	R5407	ERJ3RBD562V	5.6K 1/16W	1	
	R5408	ERJ3RBD103V	10K 1/16W	1	
	R5420	D0GD122JA017	1.2K 1/10W	1	
	R5421	D0GB100JA008	10 1/16W	1	
	R5422	D0GB104JA008	100K 1/16W	1	
	R5423	D0GB103JA008	10K 1/16W	1	
	R5424	D0GB103JA008	10K 1/16W	1	
	R5425	D0GB103JA008	10K 1/16W	1	
	R5426	ERJ3GEYJ185V	1.8M 1/10W	1	
	R5427	D0GB104JA008	100K 1/16W	1	
	R5428	D0GB103JA008	10K 1/16W	1	
	R5431	D0GB223JA008	22K 1/16W	1	
	R5434	D0GB103JA008	10K 1/16W	1	
	R5435	D0GB103JA008	10K 1/16W	1	
	R5436	D0GB223JA008	22K 1/16W	1	
	R5437	D0GB472JA008	4.7K 1/16W	1	
	R5438	D0GB224JA008	220K 1/16W	1	
	R5439	D0GB224JA008	220K 1/16W	1	
	R5444	D0GB103JA008	10K 1/16W	1	
	R5445	D0GB103JA008	10K 1/16W	1	
	R5446	D0GB332JA008	3.3K 1/16W	1	
	R5447	D0GB472JA008	4.7K 1/16W	1	
	R5449	D0GB104JA008	100K 1/16W	1	
	R5450	D0GB104JA008	100K 1/16W	1	
	R5451	D0GB104JA008	100K 1/16W	1	
	R5452	D0GB104JA008	100K 1/16W	1	
	R5453	D0GB333JA008	33K 1/16W	1	
	R5454	D0GB473JA008	47K 1/16W	1	
	R5470	D0GB473JA008	47K 1/16W	1	
	R5471	D0GB123JA008	12K 1/16W	1	
	R5472	D0GB682JA008	6.8K 1/16W	1	
	R5473	D0GB123JA008	12K 1/16W	1	
	R5474	D0GB102JA008	1K 1/16W	1	
	R5475	D0GBR00JA008	0 1/16W	1	
	R5700	ERJ8GEYJ155V	1.5M 1/4W	1	
	R5701	ERJ8GEYJ155V	1.5M 1/4W	1	
	R5702	ERJ1TYJ333V	33K 1W	1	
	R5703	ERJ1TYJ333V	33K 1W	1	
	R5704	ERJ8GEYJ124V	120K 1/4W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R5706	ERJ8GEYJ274V	270K 1/4W	1	
	R5707	D0GF394JA017	390K 1/4W	1	
	R5720	D0GD220JA017	22 1/10W	1	
	R5721	D0GD103JA017	10K 1/10W	1	
	R5722	D0GD222JA017	2.2K 1/10W	1	
	R5723	ERJ1TYJ333V	33K 1W	1	
	R5724	ERJ1TYJ222V	2.2K 1W	1	
	R5726	ERJ1TRSJR15U	0.15 1/2W	1	
	R5727	ERJ1TRSJR15U	0.15 1/2W	1	
	R5728	D0GB223JA008	22K 1/16W	1	
	R5729	D0GB473JA008	47K 1/16W	1	
	R5730	D0GB102JA008	1K 1/16W	1	
	R5732	ERJ6GEYJ221V	220 1/8W	1	
	R5733	D0GB473JA008	47K 1/16W	1	
	R5786	D0GD224JA017	220K 1/10W	1	
	R5795	D0GD474JA017	470K 1/10W	1	
	R5797	D0GB153JA008	15K 1/16W	1	
	R5798	D0GB101JA008	100 1/16W	1	
	R5801	D0GB101JA008	100 1/16W	1	
	R5802	D0HB183ZA002	18K 1/16W	1	
	R5803	D0GD562JA017	5.6K 1/10W	1	
	R5804	ERJ6RED124V	120K 1/10W	1	
	R5805	ERJ3RBD682V	6.8K 1/16W	1	
	R5806	D0GB223JA008	22K 1/16W	1	
	R5807	D0GD681JA017	680 1/10W	1	
	R5808	D0GB222JA008	2.2K 1/16W	1	
	R5809	D0GD681JA017	680 1/10W	1	
	R5814	D0GB104JA008	100K 1/16W	1	
	R5817	ERJ3RBD222V	2.2K 1/16W	1	
	R5818	D0GB220JA008	22 1/16W	1	
	R5819	D0GD220JA017	22 1/10W	1	
	R5820	D0GD272JA017	2.7K 1/10W	1	
	R5821	D0GB104JA008	100K 1/16W	1	
	R5832	ERJ1TYJ822V	8.2K 1W	1	
	R5833	ERJ1TYJ822V	8.2K 1W	1	
	R5861	D0GB104JA008	100K 1/16W	1	
	R5862	D0GD222JA017	2.2K 1/10W	1	
	R5863	D0GD562JA017	5.6K 1/10W	1	
	R5864	D0GB272JA008	2.7K 1/16W	1	
	R5866	ERJ6GEYJ221V	220 1/8W	1	
	R5890	D0GB222JA008	2.2K 1/16W	1	
	R5891	ERJ3RBD333V	33K 1/16W	1	
	R5892	ERJ3RBD332V	3.3K 1/16W	1	
	R5893	ERJ3RBD333V	33K 1/16W	1	
	R5894	D0GB102JA008	1K 1/16W	1	
	R5895	D0GB153JA008	15K 1/16W	1	
	R5897	D0GB101JA008	100 1/16W	1	
	R5898	D0GD824JA017	820K 1/10W	1	
	R5899	D0GD473JA017	47K 1/10W	1	
	R6004	D0GBR00JA008	0 1/16W	1	
	R6005	D0GB470JA008	47 1/16W	1	
	R6006	D0GB101JA008	100 1/16W	1	
	R6007	ERJ8GEYJ1R8V	1.8 1/4W	1	
	R6008	ERJ8GEYJ1R8V	1.8 1/4W	1	
	R6010	D0GB680JA008	68 1/16W	1	
	R6011	D0GB680JA008	68 1/16W	1	
	R6012	D0GB102JA008	1K 1/16W	1	
	R6015	D0GB563JA008	56K 1/16W	1	
	R6016	D0GB122JA008	1.2K 1/16W	1	
	R6017	D0GB152JA008	1.5K 1/16W	1	
	R6018	D0GB222JA008	2.2K 1/16W	1	
	R6019	D0GB332JA008	3.3K 1/16W	1	
	R6020	D0GB472JA008	4.7K 1/16W	1	
	R6021	D0GB152JA008	1.5K 1/16W	1	
	R6022	D0GB222JA008	2.2K 1/16W	1	
	R6023	D0GB332JA008	3.3K 1/16W	1	
	R6024	D0GB472JA008	4.7K 1/16W	1	
	R6025	D0GBR00JA008	0 1/16W	1	
	R6030	D0GB103JA008	10K 1/16W	1	
	R6031	D0GB121JA008	120 1/16W	1	
	R6100	D0GB472JA008	4.7K 1/16W	1	
	R6101	D0GB104JA008	100K 1/16W	1	
	R6102	D0GB470JA008	47 1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R6103	D0GBR00JA008	0 1/16W	1	
	R6801	D0GB122JA008	1.2K 1/16W	1	
	R7000	D0GB1R5JA040	1.5 1/10W	1	
	R7002	D0GB1R5JA040	1.5 1/10W	1	
	R7003	ERJ3GEYJ3R3V	3.3 1/10W	1	
	R7005	D0GB562JA008	5.6K 1/16W	1	
	R7007	D0GB392JA008	3.9K 1/16W	1	
	R7009	D0GB272JA008	2.7K 1/16W	1	
	R7010	D0GB471JA008	470 1/16W	1	
	R7011	D0GB472JA008	4.7K 1/16W	1	
	R7012	D0GB272JA008	2.7K 1/16W	1	
	R7028	D0GB683JA008	68K 1/16W	1	
	R7031	D0GB393JA008	39K 1/16W	1	
	R7032	D0GB273JA008	27K 1/16W	1	
	R7033	D0GB393JA008	39K 1/16W	1	
	R7043	D0GA102JA023	1K 1/16W	1	
	R7050	D0GA103JA023	10K 1/16W	1	
	R7051	ERJ2GEOR00X	0 1/16W	1	
	R7055	D0GA104JA023	100K 1/16W	1	
	R7056	ERJ2GEOR00X	0 1/16W	1	
	R7061	D0GB272JA008	2.7K 1/16W	1	
	R7062	D0GB272JA008	2.7K 1/16W	1	
	R7063	D0GB272JA008	2.7K 1/16W	1	
	R7071	D0GA103JA023	10K 1/16W	1	
	R7072	D0GA332JA023	3.3K 1/16W	1	
	R7082	D0GA103JA023	10K 1/16W	1	
	R51383	D0GA222JA023	2.2K 1/16W	1	
	R54900	D0GD4R7JA017	4.7 1/10W	1	
	R54901	D0GA102JA023	1K 1/16W	1	
	R54902	D0GA102JA023	1K 1/16W	1	
	R54904	D0GA330JA023	33 1/16W	1	
	R54905	D0GA330JA023	33 1/16W	1	
	R54906	D0GA330JA023	33 1/16W	1	
	R54907	D0GA330JA023	33 1/16W	1	
	R54908	D0GD4R7JA017	4.7 1/10W	1	
	R54909	D0GA330JA023	33 1/16W	1	
	R56038	D0GA222JA023	2.2K 1/16W	1	
	R56039	D0GA222JA023	2.2K 1/16W	1	
	R56044	D0GA104JA023	100K 1/16W	1	
	R56045	D0GA104JA023	100K 1/16W	1	
	R57006	D0GA470JA023	47 1/16W	1	
	R57007	D0GA470JA023	47 1/16W	1	
	R59051	D0GA333JA023	33K 1/16W	1	
			RESISTOR NET- WORKS		
	RX2300	D1H83314A024	RESISTOR NETWORK	1	
	RX2301	D1H83314A024	RESISTOR NETWORK	1	
	RX2302	D1H83314A024	RESISTOR NETWORK	1	
	RX2304	D1H83314A024	RESISTOR NETWORK	1	
	RX2305	D1H83314A024	RESISTOR NETWORK	1	
	RX2307	D1H83314A024	RESISTOR NETWORK	1	
	RX2308	D1H83314A024	RESISTOR NETWORK	1	
	RX2309	D1H83314A024	RESISTOR NETWORK	1	
	RX2310	D1H83314A024	RESISTOR NETWORK	1	
			CAPACITORS		
	C1002	F1G1C104A083	0.1uF 16V	1	
	C1003	F1G1C104A083	0.1uF 16V	1	
	C1004	F1G1C104A083	0.1uF 16V	1	
	C1101	F1G1A1040006	0.1uF 10V	1	
	C1102	EEEFK0J102P	1000uF 6.3V	1	
	C1103	F1J1A106A043	10uF 10V	1	
	C1104	F1J1A106A043	10uF 10V	1	
	C1105	F1G1A1040006	0.1uF 10V	1	
	C1107	F2G0J101A083	100uF 6.3V	1	
	C1109	F1G1C1030007	0.01uF 16V	1	
	C1110	F1G1C1030007	0.01uF 16V	1	
	C1111	F1G1H2200001	22pF 50V	1	
	C1113	F1G1H2200001	22pF 50V	1	
	C1114	F1G1H2200001	22pF 50V	1	
	C1115	F1G1H2200001	22pF 50V	1	
	C1116	F1G1H2200001	22pF 50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C1117	F1H1A105A025	1uF 10V	1	
	C1118	F1H1A105A025	1uF 10V	1	
	C1122	F1G1C1030007	0.01uF 16V	1	
	C1131	F1G1E1020001	1000pF 25V	1	
	C1134	F1G1E1020001	1000pF 25V	1	
	C1135	F1J1A106A043	10uF 10V	1	
	C2041	F1G1A1040006	0.1uF 10V	1	
	C2042	F1G1H470A444	47pF 50V	1	
	C2043	F1G1H470A444	47pF 50V	1	
	C2044	F1H1A105A025	1uF 10V	1	
	C2045	F1G1C1030007	0.01uF 16V	1	
	C2046	F1J1A106A043	10uF 10V	1	
	C2051	F1H1A105A025	1uF 10V	1	
	C2052	F1G1C1030007	0.01uF 16V	1	
	C2053	F1G1E1020001	1000pF 25V	1	
	C2054	F2G0J101A083	100uF 6.3V	1	
	C2055	F1G1E1020001	1000pF 25V	1	
	C2056	F1H1A105A025	1uF 10V	1	
	C2057	F1G1C1030007	0.01uF 16V	1	
	C2058	F1G1C273A081	0.027uF 16V	1	
	C2059	F1G1E2720001	2700pF 25V	1	
	C2060	F1H1A105A025	1uF 10V	1	
	C2061	F1G1C1030007	0.01uF 16V	1	
	C2071	F1G1A1040006	0.1uF 10V	1	
	C2072	F1J1A106A043	10uF 10V	1	
	C2102	F1G1E1020001	1000pF 25V	1	
	C2107	ERJ2GEOR00X	0 1/16W	1	
	C2112	ERJ2GEOR00X	0 1/16W	1	
	C2113	ERJ2GEOR00X	0 1/16W	1	
	C2201	F1H1A105A025	1uF 10V	1	
	C2202	F1H1A105A025	1uF 10V	1	
	C2203	F1G1H470A444	47pF 50V	1	
	C2204	F1G1H470A444	47pF 50V	1	
	C2205	F1H1A105A025	1uF 10V	1	
	C2206	F1J1A106A043	10uF 10V	1	
	C2207	F1G1A1040006	0.1uF 10V	1	
	C2211	F1G1A1040006	0.1uF 10V	1	
	C2212	F1G1A1040006	0.1uF 10V	1	
	C2301	F1G1H470A444	47pF 50V	1	
	C2302	F1G1A1040006	0.1uF 10V	1	
	C2304	F1G1A1040006	0.1uF 10V	1	
	C2305	F1G1A1040006	0.1uF 10V	1	
	C2306	F1G1A1040006	0.1uF 10V	1	
	C2307	F1G1A1040006	0.1uF 10V	1	
	C2308	F1G1E4720002	4700pF 25V	1	
	C2309	F1G1E4720002	4700pF 25V	1	
	C2310	F1G1H470A444	47pF 50V	1	
	C2311	F1G1H470A444	47pF 50V	1	
	C2312	F1G1A1040006	0.1uF 10V	1	
	C2313	F1G1A1040006	0.1uF 10V	1	
	C2314	F2G0J101A083	100uF 6.3V	1	
	C2315	F1H1A105A025	1uF 10V	1	
	C2316	F1H1A105A025	1uF 10V	1	
	C2321	F1G1E4720002	4700pF 25V	1	
	C2322	F1G1E4720002	4700pF 25V	1	
	C2400	F1G1A1040006	0.1uF 10V	1	
	C2572	F1H1H2210001	220pF 50V	1	
	C2573	F1H1H2210001	220pF 50V	1	
	C2802	F1G1E6810001	680pF 25V	1	
	C2803	F1G1E6810001	680pF 25V	1	
	C2804	F1G1E6810001	680pF 25V	1	
	C2805	F1G1E6810001	680pF 25V	1	
	C2806	F1H1A105A025	1uF 10V	1	
	C2807	F1H1A105A025	1uF 10V	1	
	C2811	F1H1A105A025	1uF 10V	1	
	C2812	F1H1A105A025	1uF 10V	1	
	C2813	F1H1A105A025	1uF 10V	1	
	C2814	F1H1A105A025	1uF 10V	1	
	C2815	F1G1H470A444	47pF 50V	1	
	C2816	F1G1H470A444	47pF 50V	1	
	C2817	F1G1A1040006	0.1uF 10V	1	
	C2818	F1G1A1040006	0.1uF 10V	1	
	C2901	F2A1V2210049	220uF 35V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C2902	F2A0J1220028	1200uF 6.3V	1	
	C2903	F2A1C8210008	820uF 16V	1	
	C2907	F2A1V5600013	56uF 35V	1	
	C2951	F1H1H102A219	1000pF 50V	1	
	C2953	F1H1H104A013	0.1uF 50V	1	
	C2957	F1H1H103A219	0.01uF 50V	1	
	C2957	F1H1H220A230	22pF 50V	1	
	C2958	F1H1H220A230	22pF 50V	1	
	C2959	F1H1A105A025	1uF 10V	1	
	C2960	F1H1A105A025	1uF 10V	1	
	C2961	F1G1C104A077	0.1uF 16V	1	
	C2961	F1H1H681A013	680pF 50V	1	
	C2962	F1G1C104A077	0.1uF 16V	1	
	C2962	F1H1H103A219	0.01uF 50V	1	
	C2963	F1H1H681A013	680pF 50V	1	
	C2964	F1H1H104A013	0.1uF 50V	1	
	C2966	F1J1V1050001	1uF 35V	1	
	C2971	F1H1H104A013	0.1uF 50V	1	
	C2972	F1H1C224A068	0.22uF 16V	1	
	C2973	F1H1H122A013	1200pF 50V	1	
	C2974	F1H1A105A025	1uF 10V	1	
	C2975	F1K1C1060001	10uF 16V	1	
	C2976	F1H1H153A219	0.015uF 50V	1	
	C2977	F1H1C224A068	0.22uF 16V	1	
	C2981	F1H1H102A219	1000pF 50V	1	
	C2982	F1K1C1060001	10uF 16V	1	
	C2983	F1J1V1050001	1uF 35V	1	
	C3103	F1J1A106A043	10uF 10V	1	
	C3104	F1J1A106A043	10uF 10V	1	
	C5100	F1H1H104A013	0.1uF 50V	1	
	C5101	F1H1H104A013	0.1uF 50V	1	
	C5102	F1J1C106A059	10uF 16V	1	
	C5103	F1H1H104A013	0.1uF 50V	1	
	C5104	F1H1H104A013	0.1uF 50V	1	
	C5105	F1H1H104A013	0.1uF 50V	1	
	C5106	F1J2A333A024	0.033uF 100V	1	
	C5107	F1L2A2250002	2.2uF 100V	1	
	C5108	F1L2A2250002	2.2uF 100V	1	
	C5109	F1L2A2250002	2.2uF 100V	1	
	C5110	F1L2A2250002	2.2uF 100V	1	
	C5111	F1J2A333A024	0.033uF 100V	1	
	C5112	F1J2A333A024	0.033uF 100V	1	
	C5113	F1L2A2250002	2.2uF 100V	1	
	C5114	F1L2A2250002	2.2uF 100V	1	
	C5115	F1L2A2250002	2.2uF 100V	1	
	C5116	F1L2A2250002	2.2uF 100V	1	
	C5117	F2A1J3310032	330uF 63V	1	
	C5118	F1J2A333A024	0.033uF 100V	1	
	C5119	F1H1H104A013	0.1uF 50V	1	
	C5120	F0C1J1050003	1uF 63V	1	
	C5121	F2A1V3310040	330uF 35V	1	
	C5127	F0C1J1050003	1uF 63V	1	
	C5128	F2A1V4710076	470uF 35V	1	
	C5133	F2A1V4710076	470uF 35V	1	
	C5134	F2A1V3310040	330uF 35V	1	
	C5135	F0C1J1050003	1uF 63V	1	
	C5136	F2A1V3310040	330uF 35V	1	
	C5137	F2A1V4710076	470uF 35V	1	
	C5142	F0C1J1050003	1uF 63V	1	
	C5143	F2A1V3310040	330uF 35V	1	
	C5144	F2A1V4710076	470uF 35V	1	
	C5150	F1H2A102A009	1000pF 100V	1	
	C5151	F1H2A102A009	1000pF 100V	1	
	C5152	F1H2A102A009	1000pF 100V	1	
	C5153	F1H2A102A009	1000pF 100V	1	
	C5154	F1H2A102A009	1000pF 100V	1	
	C5155	F1H2A102A009	1000pF 100V	1	
	C5156	F1H2A102A009	1000pF 100V	1	
	C5157	F1H2A102A009	1000pF 100V	1	
	C5200	F1H1H104A013	0.1uF 50V	1	
	C5201	F1H1H104A013	0.1uF 50V	1	
	C5202	F1J1C106A059	10uF 16V	1	
	C5203	F1H1H104A013	0.1uF 50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C5204	F1H1H104A013	0.1uF 50V	1	
	C5205	F1H1H104A013	0.1uF 50V	1	
	C5206	F1J2A333A024	0.033uF 100V	1	
	C5207	F1L2A2250002	2.2uF 100V	1	
	C5208	F1L2A2250002	2.2uF 100V	1	
	C5209	F1L2A2250002	2.2uF 100V	1	
	C5210	F1L2A2250002	2.2uF 100V	1	
	C5211	F1J2A333A024	0.033uF 100V	1	
	C5212	F1J2A333A024	0.033uF 100V	1	
	C5213	F1L2A2250002	2.2uF 100V	1	
	C5214	F1L2A2250002	2.2uF 100V	1	
	C5215	F1L2A2250002	2.2uF 100V	1	
	C5216	F1L2A2250002	2.2uF 100V	1	
	C5217	F2A1J3310032	330uF 63V	1	
	C5218	F1J2A333A024	0.033uF 100V	1	
	C5219	F1H1H104A013	0.1uF 50V	1	
	C5222	ECQV1H474JL3	0.47uF 50V	1	
	C5223	F1H2A102A009	1000pF 100V	1	
	C5224	F1H1H103A219	0.01uF 50V	1	
	C5226	F1H2A102A009	1000pF 100V	1	
	C5227	F1H1H103A219	0.01uF 50V	1	
	C5228	ECQV1H474JL3	0.47uF 50V	1	
	C5229	F1H2A102A009	1000pF 100V	1	
	C5230	F1H2A102A009	1000pF 100V	1	
	C5231	F1H1H103A219	0.01uF 50V	1	
	C5232	F1H1H103A219	0.01uF 50V	1	
	C5235	F1H2A102A009	1000pF 100V	1	
	C5236	F1H2A102A009	1000pF 100V	1	
	C5237	F1H2A102A009	1000pF 100V	1	
	C5238	F1H2A102A009	1000pF 100V	1	
	C5350	F1H1H104A013	0.1uF 50V	1	
	C5351	F1H1H104A013	0.1uF 50V	1	
	C5352	F1H1H103A219	0.01uF 50V	1	
	C5354	F1H1H104A013	0.1uF 50V	1	
	C5356	F1H1H104A013	0.1uF 50V	1	
	C5357	F1H1H103A219	0.01uF 50V	1	
	C5358	F1H1H104A013	0.1uF 50V	1	
	C5359	F1J1A106A043	10uF 10V	1	
	C5361	F1H1H104A013	0.1uF 50V	1	
	C5362	F1H1H470A004	47pF 50V	1	
	C5363	F1H1H470A004	47pF 50V	1	
	C5365	F1H1H104A013	0.1uF 50V	1	
	C5366	F1H1H104A013	0.1uF 50V	1	
	C5406	EEE1EA330WR	33uF 25V	1	
	C5416	F1H1H102A219	1000pF 50V	1	
	C5417	EEE1CA100SR	10uF 16V	1	
	C5418	EEE0JA101WR	100uF 6.3V	1	
	C5419	F1H1E105A116	1uF 25V	1	
	C5420	EEE1CA220WR	22uF 16V	1	
	C5421	F1H1H104A013	0.1uF 50V	1	
	C5422	EEE1CA220WR	22uF 16V	1	
	C5423	F1J1V1050001	1uF 35V	1	
	C5424	F1H1H562A219	5600pF 50V	1	
	C5425	F1H1C105A097	1uF 16V	1	
	C5427	F1J1A106A043	10uF 10V	1	
	C5428	F1J1A106A043	10uF 10V	1	
	C5432	F1H1H103A219	0.01uF 50V	1	
	C5433	F1H1H104A013	0.1uF 50V	1	
	C5434	F1H1H104A013	0.1uF 50V	1	
	C5435	F1H1H104A013	0.1uF 50V	1	
	C5436	F1H1H104A013	0.1uF 50V	1	
	C5437	F1H1H104A013	0.1uF 50V	1	
	C5439	F1H1C105A097	1uF 16V	1	
	C5440	F1J1V1050001	1uF 35V	1	
	C5446	F1H2A102A009	1000pF 100V	1	
	C5447	F1J1V1050001	10uF 35V	1	
	C5448	F1J1A106A043	10uF 10V	1	
	C5449	F1H1H104A013	0.1uF 50V	1	
	C5450	EEE1CA220WR	22uF 16V	1	
⚠	C5700	F1BAF1020020	1000pF	1	
⚠	C5701	F0CAF104A105	0.1uF	1	
⚠	C5702	F0CAF104A105	0.1uF	1	
⚠	C5703	F0CAF104A105	0.1uF	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
⚠	C5705	F1BAF2220023	2200pF	1	
⚠	C5706	F1BAF471A013	470pF	1	
	C5712	F2A2D8210001	820uF 200V	1	
	C5713	F0C2J1030005	0.01uF 630V	1	
	C5720	F1H1H102A219	1000pF 50V	1	
	C5721	F1H1H2210001	220pF 50V	1	
	C5722	F1H1H102A219	1000pF 50V	1	
	C5723	F1H1H471A219	470pF 50V	1	
	C5724	F1H1H102A219	1000pF 50V	1	
	C5725	F1H1H104A013	0.1uF 50V	1	
	C5726	F2A1H100A454	10uF 50V	1	
	C5730	F1H1E105A116	1uF 25V	1	
	C5747	F1B3A332A008	3300pF 1000V	1	
	C5790	F1K2J2220002	2200pF 630V	1	
	C5791	F1J0J106A020	10uF 6.3V	1	
	C5795	F1H1H102A219	1000pF 50V	1	
	C5796	F1H1H104A013	0.1uF 50V	1	
	C5798	F2A1H100A454	10uF 50V	1	
	C5799	F2B2G6R80001	6.8uF 400V	1	
	C5800	F1J2E1030004	0.01uF 250V	1	
	C5805	F2A1J1020045	1000uF 63V	1	
	C5811	F1J2E1030004	0.01uF 250V	1	
	C5813	F2A1V331B150	330uF 35V	1	
	C5817	F1H2A682A002	6800pF 100V	1	
	C5818	F1H2A472A002	4700pF 100V	1	
	C5824	F2A1E221B422	220uF 25V	1	
	C5826	F1J2E1030004	0.01uF 250V	1	
	C5827	F1J2E1030004	0.01uF 250V	1	
	C5828	F2A0J222A247	2200uF 6.3V	1	
	C5840	F1J2E1030004	0.01uF 250V	1	
	C5841	F1J2E1030004	0.01uF 250V	1	
	C5869	F1H1H103A219	0.01uF 50V	1	
	C5897	F1H1H104A013	0.1uF 50V	1	
	C5898	F1H1H104A013	0.1uF 50V	1	
	C5899	F2A1A2210063	220uF 10V	1	
	C6001	F1J1V1050001	1uF 35V	1	
	C6005	F1J1V1050001	1uF 35V	1	
	C6010	F1J1A4750002	4.7uF 10V	1	
	C6012	F1H1H1010005	100pF 50V	1	
	C6013	F1H1H1010005	100pF 50V	1	
	C6014	F1H1H1010005	100pF 50V	1	
	C6015	F1J1V1050001	1uF 35V	1	
	C6016	F1H1H1010005	100pF 50V	1	
	C6018	F2A0J1000008	10uF 6.3V	1	
	C6019	F1H1H104A013	0.1uF 50V	1	
	C6100	F2A1C470A630	47uF 16V	1	
	C6101	F1H1H562A219	5600pF 50V	1	
	C6102	F2A1V330A921	33uF 35V	1	
	C6103	F2A0J221A024	220uF 6.3V	1	
	C6104	F2A1V470A942	47uF 35V	1	
	C6105	F1J1C106A059	10uF 16V	1	
	C7011	F1J1A106A043	10uF 10V	1	
	C7012	F1J1A106A043	10uF 10V	1	
	C7014	F1J1A106A043	10uF 10V	1	
	C7016	F1J1A106A043	10uF 10V	1	
	C7017	F1J1A106A043	10uF 10V	1	
	C7019	EEEFK0J102P	1000uF 6.3V	1	
	C7020	EEEFK1C471P	470uF 16V	1	
	C7021	F1J1A106A043	10uF 10V	1	
	C7022	F1J1A106A043	10uF 10V	1	
	C7041	F1J1A106A043	10uF 10V	1	
	C7042	F1J1A106A043	10uF 10V	1	
	C7051	F1H1H103A219	0.01uF 50V	1	
	C7052	F1H1H103A219	0.01uF 50V	1	
	C7054	F1H1E105A116	1uF 25V	1	
	C7055	F1H1E105A116	1uF 25V	1	
	C7056	F1H1H471A971	470pF 50V	1	
	C7057	F1H1E105A116	1uF 25V	1	
	C7058	F1H1E105A116	1uF 25V	1	
	C7059	F1H1E105A116	1uF 25V	1	
	C7067	F1J1A106A043	10uF 10V	1	
	C7071	F1J1A106A043	10uF 10V	1	
	C7072	F1G1A1040006	0.1uF 10V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C7075	F1H1E105A116	1uF 25V	1	
	C54900	F1G1H221A541	220pF 50V	1	
	C54901	F1G1H221A541	220pF 50V	1	
	C54902	F1G1A1040006	0.1uF 10V	1	
	C54903	F1H1A105A025	1uF 10V	1	
	C54904	F1J0J106A020	10uF 6.3V	1	
	C54905	F1G1C1030007	0.01uF 16V	1	
	C54906	F2G0J4700010	47uF 6.3V	1	
	C54908	F1G1C1030007	0.01uF 16V	1	
	C54909	F1J0J106A020	10uF 6.3V	1	
	C54910	F1H1A105A025	1uF 10V	1	
	C54911	F1H1A105A025	1uF 10V	1	
	C57010	F1G1A1040006	0.1uF 10V	1	
	C57011	F1G1A1040006	0.1uF 10V	1	

