

Service Manual

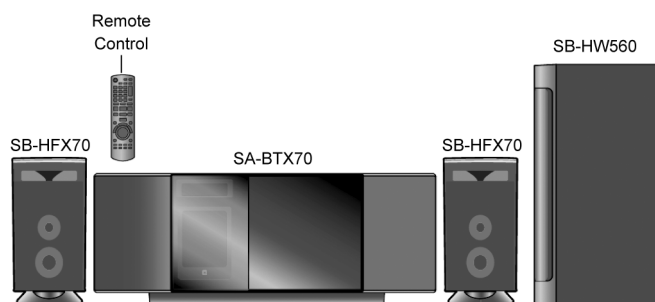
Blu-ray Disc Home Theater Sound System



Model No. **SA-BTX70EB**
SA-BTX70EG
SA-BTX68EF

Vol.1

Product Color: (K)...Black Type



This illustration shows: SC-BTX70 only

Notes: These model's BD Drive/Digital P.C.B. Module are - RFKNBTX70EB (For EB);
 - RFKNBTX70EG (For EG);
 - RFKNBTX68EF (For EF)

Caution:

Pairing of BD Mechanism and Digital P.C.B. as "BD Mechanism/Digital P.C.B. Kit Assembly" have to be replaced together. If the either BD Mechanism or Digital P.C.B. is changed, BD Mechanism unit has to be re-aligned. Because the alignment data for BD Mechanism is stored in Digital 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 Safety Precautions

1.1. GENERAL GUIDELINES

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

1.1.1. LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between $1M\Omega$ and $5.2M\Omega$.
When the exposed metal does not have a return path to the chassis, the reading must be ∞

1.1.2. LEAKAGE CURRENT HOT CHECK

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.

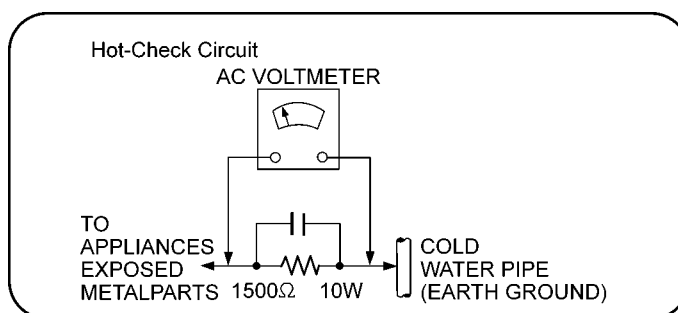


Figure 1

1.2. Before Repair and Adjustment

Disconnect AC power to discharge unit AC Capacitors as such (C5700, C5701, C5702, C5704, C5705) 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 230 - 240 V, 50 Hz in NO SIGNAL mode volume minimal should be ~ 500 mA.

1.2.1. Caution for fuse replacement

CAUTION:

- i) Replace with the same type fuse:
(Manufacturer: LITTELFUSE, INC, Type: 218, F1, 3.15A, 250V)
- ii) Replace with the same type fuse:
(Manufacturer: LITTELFUSE, INC, Type: 392, F2, 1.6A, 250V)

1.3. 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.

1.4. 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
△	36	REX1380	RED WIRE (SMPS-AC);TL1	
△	37	REX1381	BLACK WIRE (SMPS-AC);TL2	
△	91	RFKNBTX70EB	BD MECHANISM / DIGITAL P.C.B	EB
△	91	RFKNBTX70EG	BD MECHANISM / DIGITAL P.C.B	EG
△	91	RFKNBTX68EF	BD MECHANISM / DIGITAL P.C.B	EF
△	A2	K2CQ2CA00007	AC CORD	EG/EF
△	A2	K2CZ3YY00005	AC CORD	EB
△	A3	RQT9464-B	O/I BOOK (En)	EB/EG
△	A3	RQT9465-D	O/I BOOK (Fr)	EG
△	A3	RQT9466-E	O/I BOOK (It/Ge)	EG
△	A3	RQT9467-H	O/I BOOK (Sp/Du)	EG
△	A3	RQT9468-J	O/I BOOK (Da/Sw)	EG
△	A3	RQT9469-R	O/I BOOK (Ru/Ur)	EG
△	A3	RQT9488-D	O/I BOOK (Fr)	EF
△	PCB3	REP4522A	SMPS P.C.B	(RTL)
△	PCB20	REP4522A	AC INLET P.C.B	(RTL)
△	IC51001	RFKB4520A	IC	
△	IC51301	RFKB4520A	IC	
△	IC51601	RFKB4520A	IC	
△	DZ5701	ERZV10V511CS	ZNR	
△	L5701	ELF15N035AN	LINE FILTER	
△	L5702	ELF21N010A	LINE FILTER	
△	T5701	ETS42BM1F6AC	MAIN TRANSFORMER	
△	T5751	ETS19AB2A6AG	BACKUP TRANSFORMER	
△	T7001	G4D1A0000117	SWITCHING TRANSFORMER	
△	T51601	J0MAB0000200	FILTER	
△	PC5702	B3PBA0000402	PHOTO COUPLER	
△	PC5720	B3PBA0000402	PHOTO COUPLER	
△	PC5799	B3PBA0000402	PHOTO COUPLER	
△	RY701	K6B1AEA00003	RELAY	
△	F1	K5D312BLA015	FUSE	
△	F2	K5G162B00016	FUSE	
△	IP7001	K5H7512A0010	PROTECTOR	
△	IP55004	K5H252Z00003	PROTECTOR	
△	IP55005	K5H202Z00005	PROTECTOR	
△	IP58301	ERBSE3R00U	PROTECTOR	
△	TH5702	D4CAA5R10001	THERMISTOR	
△	P5701	K2AA2B000017	AC INLET	
△	C5700	F1BAF2220023	2200pF	
△	C5701	ECQU2A104MLC	0.1uF	
△	C5702	ECQU2A104MLC	0.1uF	
△	C5704	F1BAF1020020	1000pF	
△	C5705	F1BAF101A013	100pF	

2 Warning

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

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called 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).

2.2. 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.

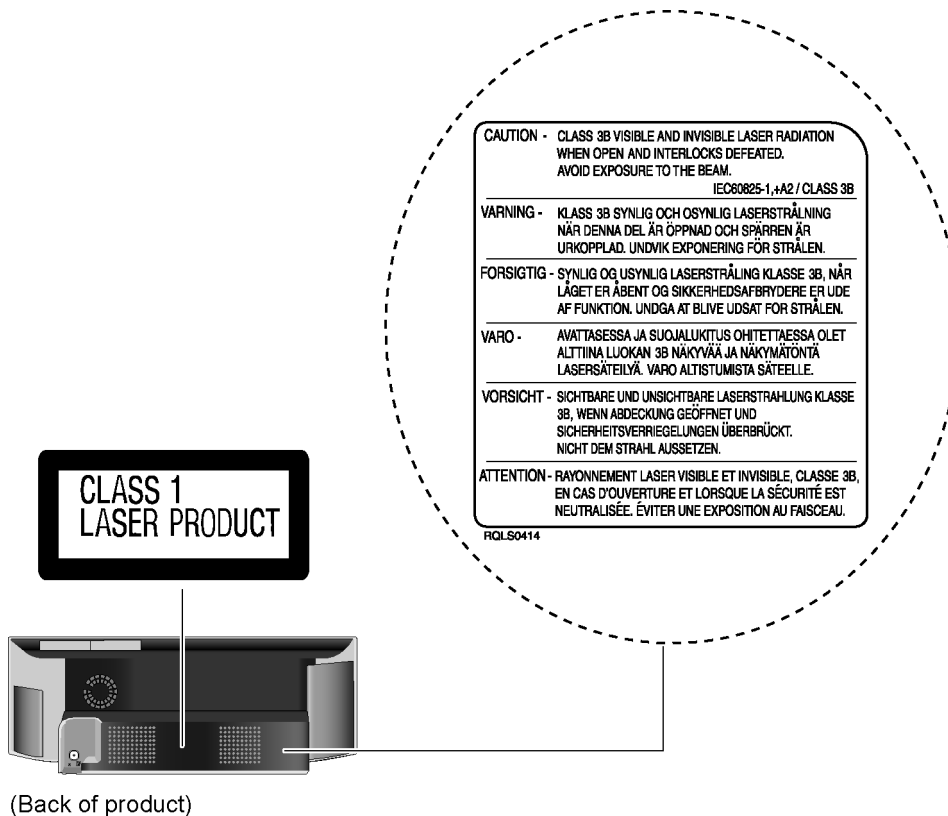
Caution:

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

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.



2.3. Service caution based on Legal restrictions

2.3.1. General description about Lead Free Solder (PbF)

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

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

Definition of PCB Lead Free Solder being used

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

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

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

Recommended Lead Free Solder (Service Parts Route.)

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

Note

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

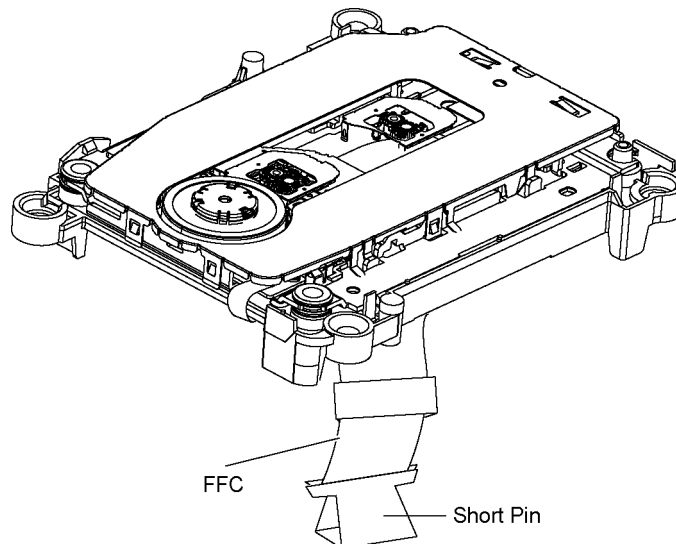
2.4. Handling Precautions for Traverse Unit

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.

2.4.1. Cautions to Be Taken in Handling the Optical Pickup Unit

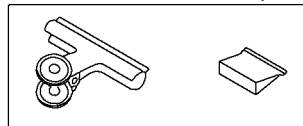
The laser diode in the optical pickup unit may be damaged due to electrostatic discharge generating from clothes or human body. Special care must be taken avoid caution to electrostatic discharge damage when servicing the laser diode.

1. Do not give a considerable shock to the optical pickup unit as it has an extremely high-precise structure.
2. To prevent the laser diode from the electrostatic discharge damage, the flexible cable of the optical pickup unit removed should be short-circuited with a short pin or a clip.
3. The flexible cable may be cut off if an excessive force is applied to it. Use caution when handling the flexible cable.
4. The antistatic FPC is connected to the new optical pickup unit. After replacing the optical pickup unit and connecting the flexible cable, cut off the antistatic FPC.



[Caution]

Ground the cable with a clip or a short pin.



Clip or Short Pin

Figure 1

2.4.2. 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.

2.4.2.1. Worktable grounding

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

2.4.2.2. Human body grounding

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

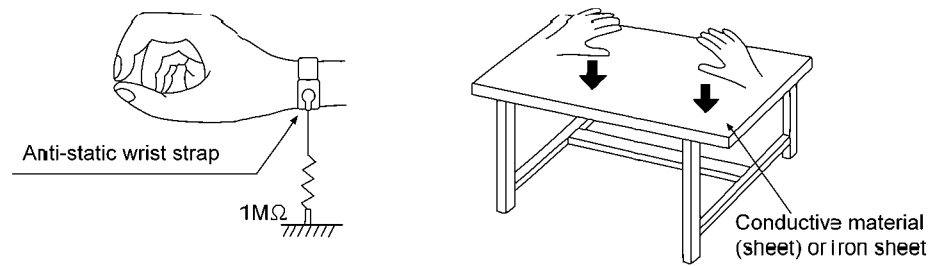


Figure 2

3 Service Navigation

3.1. Service Information

This service manual contains technical information which will allow service personnel's to understand and service this model. Please place orders using the parts list and not the drawing reference numbers.

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

- **BD Drive Digital P.C.B Assembly:**

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

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

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

- BD Mechanism/Digital P.C.B. Assembly (BTX70EB: RFKNBTX70EB)
(BTX70EG: RFKNBTX70EG)
(BTX68EF: RFKNBTX68EF)

- **Micro-processor & EEPROM IC:**

1) The following components are assembled part (with download firmware or device keys).

- Micro-processor IC, IC100 (BTX70EB: RFKWMBTX70EB)
(BTX70EG: RFKWMBTX70EG)
(BTX68EF: RFKWMBTX68EF)

- EEPROM IC, IC105 (BTX70EB: RFKWMBTX70EB)
(BTX70EG: RFKWMBTX70EG)
(BTX68EF: RFKWMBTX68EF)

- **Speaker system**

1) For information, please refer to original service manual as follow:-

- a) SB-BTX70EG-K (Order No. PSG0905005CE) - For SA-BTX70EB/EG
- b) SB-BTX68EF-K (Order No. PSG0905031CE) - For SA-BTX68EF

4 Specifications

Main unit SA-BTX70EB/EG, SA-BTX68EF

●GENERAL

Power supply:	AC 220V to 240V, 50 Hz
iPod Connector:	DC OUT 5V 500mA Max
Power consumption:	85 W
Power consumption in standby mode:	

approx. 0.3 W

Dimensions (WxHxD):	500 mm×201 mm×114 mm
Mass:	Approx 3.1 kg
Operating temperature range:	0 °C to +40 °C
Operating humidity range:	35 % to 80 % RH (no condensation)

●AMPLIFIER SECTION (For SA-BTX70EB/EG only)

RMS TTL Power Output:	375 W
Front Ch:	
	125 W per channel (6 Ω), 1 kHz, 10% THD
Subwoofer Ch:	
	125 W per channel (6 Ω), 100 Hz, 10% THD
DIN TTL Power Output:	195 W
Front Ch:	
	65 W per channel (6 Ω), 1kHz, 1.0% THD
Subwoofer Ch:	
	65 W per channel (6 Ω), 1kHz, 1.0% THD

Audio input

AUX	x1
-----	----

Digital audio input

Optical digital input:	x2
Sampling frequency:	32 kHz, 44.1 kHz, 48 kHz
Audio Format:	PCM, Dolby Digital

Headphone Output

Accommodation Impedance:	16 Ω to 64 Ω
--------------------------	--------------

●AMPLIFIER SECTION (For SA-BTX68EF only)

RMS TTL Power Output:	260 W
Front Ch:	
	105 W per channel (6 Ω), 1 kHz, 10% THD
Subwoofer Ch:	
	50 W per channel (6 Ω), 100 Hz, 10% THD
DIN TTL Power Output:	105 W
Front Ch:	
	40 W per channel (6 Ω), 1kHz, 1.0% THD
Subwoofer Ch:	
	25 W per channel (6 Ω), 1kHz, 1.0% THD

Audio input

AUX	x1
-----	----

Digital audio input

Optical digital input:	x2
Sampling frequency:	32 kHz, 44.1 kHz, 48 kHz
Audio Format:	PCM, Dolby Digital

Headphone Output

Accommodation Impedance:	16 Ω to 64 Ω
--------------------------	--------------

●FM TUNER SECTION

Frequency range:	87.50 MHz - 108.00 MHz (50-kHz step)
Antenna terminals:	75 Ω (unbalanced)

●NETWORK SECTION

Ethernet	10BASE-T/100BASE-TX (1 system)
----------	--------------------------------

●DISC SECTION

Playable disc:

BD-Video
BD-ROM: Version 2
BD-RE: Version 3 (Single Layer, Dual Layer), JPEG*7
BD-R: Version 2 (Single Layer, Dual Layer)
DVD-RAM:

DVD Video Recording format, AVCHD format*9, JPEG*5

DVD-R/DVD-R DL:

DVD Video format*2, DVD-Video Recording format*2, AVCHD format*2,9, JPEG*5, MP3, DivX*8

DVD-RW:

DVD Video format*2, DVD-Video Recording format*2, AVCHD format*2,9

+R/+RW/+R DL:

Video*2, AVCHD format*2,9

DVD-Video:

DVD-Video format

CD-Audio:

CD-DA

CD-R/CD-RW:

CD-DA, JPEG*6, MP3, DivX*8

Optical Pick up

Wavelength (BD/DVD/CD): System with 2 lenses
405/661/783 nm

LASER Specification:

Class 1 LASER Product
Wavelength (BD/DVD/CD): 405/661/783 nm
Laser power:
No hazardous radiation is emitted with the safety protection

●SD CARD SECTION

SD card slot: Connector (1 system)
SD card:

SD Memory Card*3 formatted FAT12, FAT16,
FAT32*4:JPEG*5, AVCHD format*9, MPEG2
-Usable capacity will be less (SD Card)

*2 Finalizing is necessary

*3 Include SDHC card

Include miniSD cards (need a miniSD Adaptor)
Include microSD cards (need a microSD Adaptor)

*4 Does not support long file name

*5 The total combined maximum number of recognizable picture contents and folder: 3000 picture contents and 300 folders.

*6 The total combined maximum number of recognizable picture contents and folder: 999 picture contents and 99 folders.

*7 The total combined maximum number of recognizable picture contents and folder: 9999 picture contents and 300 folders.

*8 The total combined maximum number of recognizable picture contents and folder: 200 files and 300 folders.

*9 AVCHD format V1.0

●USB Device SECTION

USB Slot: Connector (1 System)

USB Standard:USB 2.0 High Speed MP3, JPEG*5, DivX*8

Format: FAT 12, FAT 16, FAT 32

●VIDEO SECTION

Signal system: PAL/NTSC

Video output

Output level: 1 Vp-p (75 Ω)

Output connector: Pin jack (1 system)

HDMI AV output

Output format:
480p (525p)/576p (625p)/720p (750p)/1080i (1125i)/1080p (1125p)

Output connector: Type A (19 pin)
HDMI™ (v.1.3a with Deep Color, x.v.Color™, High Bit rate Audio)

HDAVI Control:

This unit supports "HDAVI Control 4" function.

Note:

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

Solder:

This model uses lead free solder (PbF).

Wireless Features:

This Model supports wireless surround (e.g:SH-FX70)

System	SC-BTX70EB/EG-K	SC-BTX68EF-K
Main unit	SA-BTX70EB/EG-K	SA-BTX68EF-K
Front speakers	SB-HFX70EG ^{*1}	SB-HFX60EG ^{*1}
Subwoofer	SB-HW560E-K ^{*1}	SB-HWX60EG-K ^{*1}

Refer to their respective original service manuals for *1

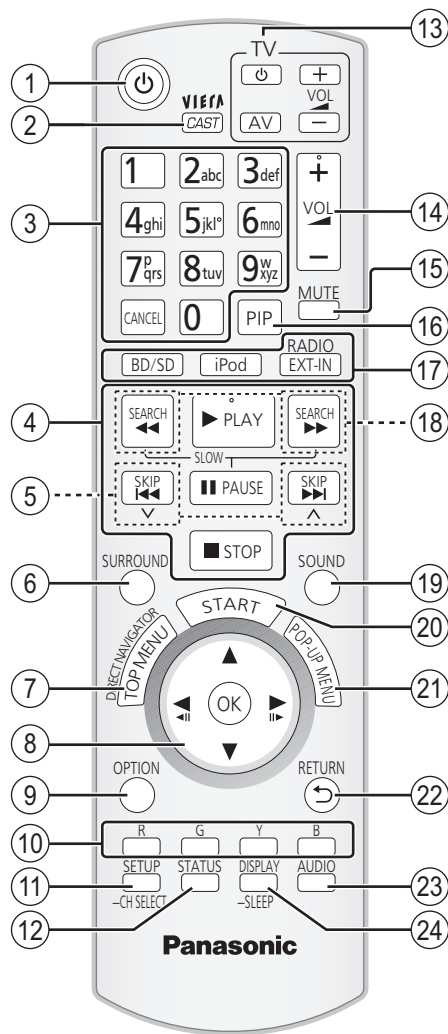
BD Features:

This model uses BD Mechanism (RD-DKU022-S)

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HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.
This product is licensed under the AVC patent portfolio license and VC-1 patent portfolio license for the personal and non-commercial use of a consumer to (i) encode video in compliance with the AVC Standard and VC-1 Standard ("AVC/VC-1 Video") and/or (ii) decode AVC/VC-1 Video that was encoded by a consumer engaged in a personal and non-commercial activity and/or was obtained from a video provider licensed to provide AVC/VC-1 Video. No license is granted or shall be implied for any other use. Additional information may be obtained from MPEG LA, LLC. See http://www.mpegla.com .
HDAVI Control™ is a trademark of Panasonic Corporation.
"x.v.Color" is trademark.
VIERA Link™ is a trademark of Panasonic Corporation.
EZ Sync™ is a trademark of Panasonic Corporation.
"AVCHD" and the "AVCHD" logo are trademarks of Panasonic Corporation and Sony Corporation.
SDHC Logo is a trademark.
Portions of this product are protected under copyright law and are provided under license by ARIS/SOLANA/4C.
"Blu-ray Disc" is trademark.
"BD-LIVE" logo is trademark of Blu-ray Disc Association.
"BONUSVIEW" is trademark of Blu-ray Disc Association.

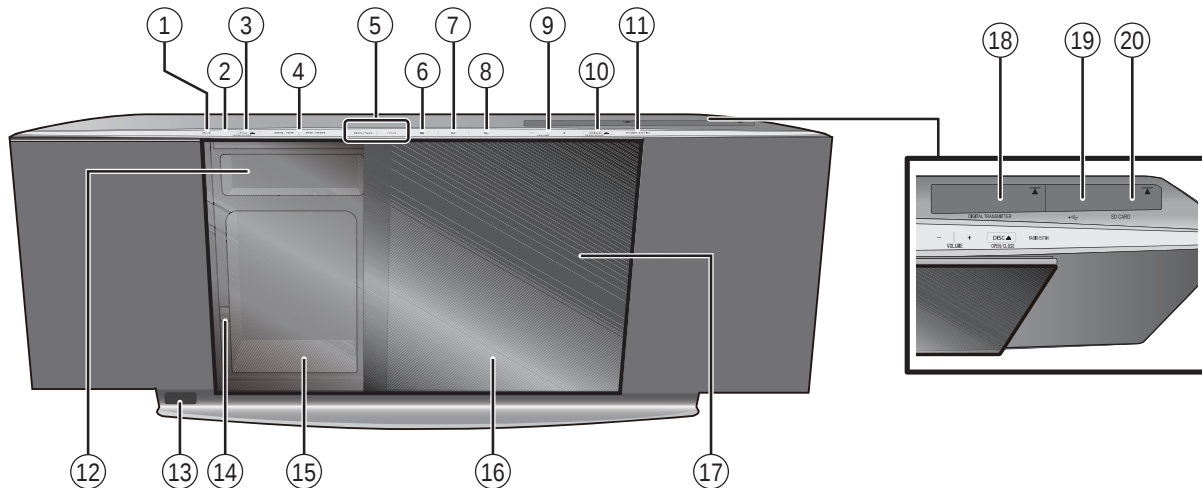
5 Location of Controls and Components

5.1. Remote Control Key Button Operations



- ① Turn the unit on and off
- ② Display Home screen of VIERA CAST
- ③ Select title numbers, etc./Enter numbers or characters
(The character buttons may be used when operating VIERA CAST contents)
[CANCEL]: Cancel
- ④ Basic playback control buttons
- ⑤ Select preset radio stations
- ⑥ Select surround sound effects
- ⑦ Show Top menu/Direct Navigator
- ⑧ [▲, ▼, ◀, ▶]: Menu selection
[OK]: Selection
[◀, ▶]: Select preset radio station
[◀] (◀||), [▶] (||▶): Frame-by-frame
- ⑨ Show OPTION menu
- ⑩ [R], [G], [Y], [B]
These buttons are used when;
 - Operating a BD-Video disc that includes Java™ applications (BD-J). For more information about operating this kind of disc, please read the instructions that came with the disc.
 - Displaying "Title View" and "Album View" screens. (Only the [R] and [G] buttons)
 - Operating contents of VIERA CAST.
- ⑪ Show Setup menu/Select speaker channel
- ⑫ Show status messages
- ⑬ TV operation buttons
You can operate the TV through the unit's remote control.
[⏻]: Turn the television on and off
[AV]: Switch the input select
[+ - VOL]: Adjust the TV volume
- ⑭ Adjust the volume of the main unit
- ⑮ Mute the sound
- ⑯ Switch on/off Secondary Video (Picture-in-picture)
- ⑰ **Select the source**
[BD/SD]: Select disc drive or SD card drive
[iPod]: Select iPod as the source
[RADIO/EXT-IN]: Select FM tuner, USB or external audio as the source
- ⑱ Select radio stations manually
- ⑲ Set the sound mode
- ⑳ Show START menu
- ㉑ Show Pop-up menu
- ㉒ Return to previous screen
- ㉓ Select audio
- ㉔ Show on-screen menu/Set the sleep timer

5.2. Main Unit Key Button Operations



① **Standby/on switch (⏻/⏻)**

Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.

② **Status indicator**

This indicator lights up when the unit is turned on and goes out in standby mode.

③ **Open or close the iPod side sliding door**

④ **Skip or slow-search play/Select the radio stations**

⑤ **Select the source**
[BD/SD]: BD/DVD → SD

[iPod]: IPOD

"SD" on the unit's display is not displayed when the SD card is not in the SD card slot.

⑥ **Stop**

⑦ **Pause**

⑧ **Start play**

⑨ **Adjust the volume of the main unit**

⑩ **Open or close the disc side sliding door**

⑪ **Select the source**

[RADIO/EXT-IN]: FM → USB → AUX → D-IN 1 → D-IN 2

↑
"USB" on the unit's display is not displayed when a USB device is not inserted into the USB port.

⑫ **Display**

⑬ **Remote control signal sensor**

⑭ **iPod Docking switch lever**

⑮ **Connect iPod**

⑯ **Disc tray**

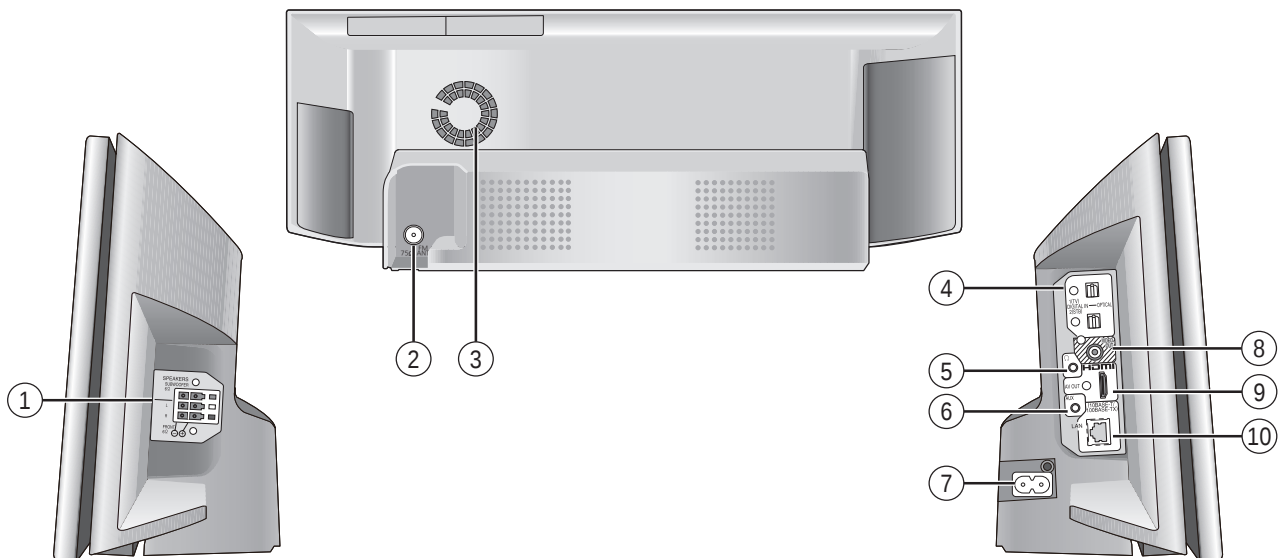
⑰ **Sliding door**

⑱ **Digital transmitter dock**

⑲ **USB port**

⑳ **SD card slot**

Side and rear panel terminals



① **SPEAKERS terminal**

② **FM Radio antenna terminal**

③ **Cooling fan**

④ **OPTICAL DIGITAL IN terminals**

Terminal 1(TV) is designated for connection with the TV.
Terminal 2(STB) can be used for connection with devices other than the STB.

⑤ **Connect headphones (not included)**

⑥ **AUX terminal**

⑦ **This terminal can also be used for equipment other than the TV.**
AC IN terminal

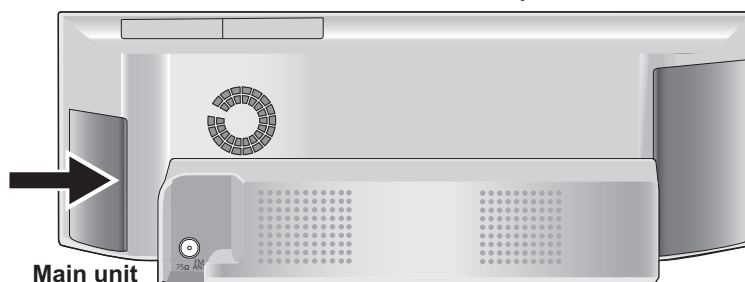
⑧ **VIDEO OUT terminal**

⑨ **HDMI AV OUT terminal**

⑩ **LAN port**

5.3. Speaker Connections

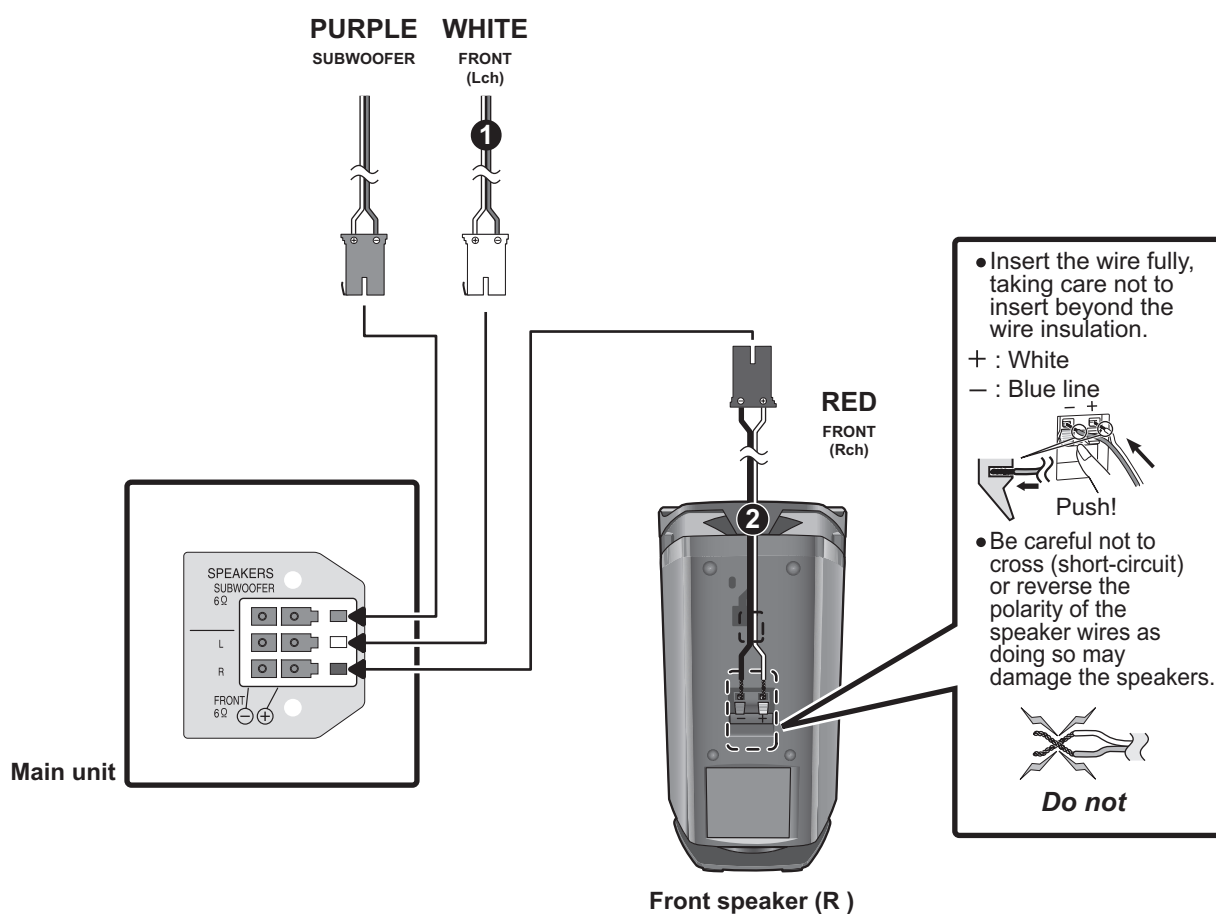
Turn off all equipment before connection and read the appropriate operating instructions.
Do not connect the AC mains lead until all other connections are complete.



Setup example

1 Speaker cable for front speaker (L) (White)

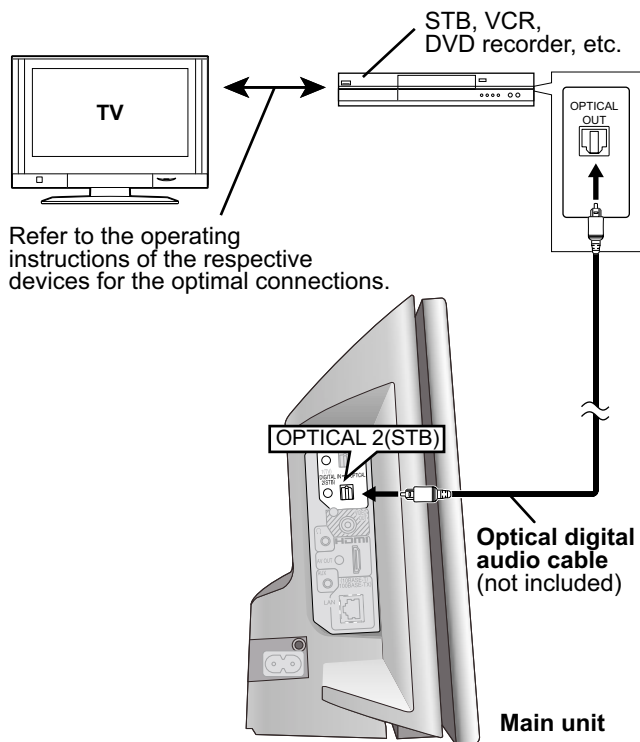
2 Speaker cable for front speaker (R) (Red)



5.4. Connections to a Set Top Box, etc.

Use the following connections when you want to output the original surround audio from your Set Top Box, cable TV, VCR, DVD recorder, etc. through this unit's speakers.

- **Do not connect through the video cassette recorder.**
Due to copy guard protection, the picture may not be displayed properly.
- **Turn off all equipment before connection.**

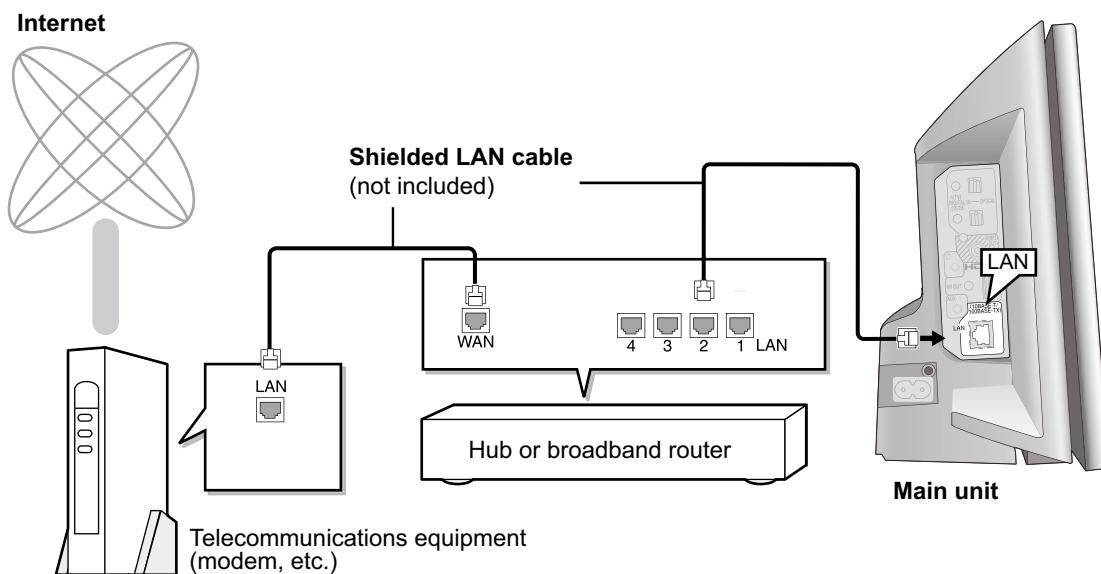


- This unit can decode the surround signal from the Set Top Box (Satellite receiver, Cable box, etc.). Press [EXT-IN] several times to select D-IN 2 (DIGITAL IN 2*).
 - * (CABLE/SAT) is displayed next to DIGITAL IN 2 when set for CABLE/SAT AUDIO input.
- For connections between this unit and the TV, refer to TV connections
- If you have various sound sources and this unit's terminals are not sufficient, connect them to the available inputs on the TV and the TV output should then be connected to the AUX or OPTICAL 1(TV) terminal of the main unit. Refer to the operating instructions of the TV, video cassette recorder, DVD recorder or Set Top Box for settings to output its audio via AUDIO OUT or OPTICAL OUT terminal of the TV.
In some cases the audio signal will only be out as 2ch audio from the TV. In this case, connect the Set Top Box (Satellite receiver, Cable box, etc.) that will be used most commonly with multi-channel audio to this unit's OPTICAL 2(STB) terminal.

5.5. Network connection

The following services can be used when this unit is connected to the internet via a broadband.

- Firmware can be updated
- You can enjoy the BD-Live
- You can enjoy the VIERA CAST



NOTE

- When your communication equipment (modem), etc. has no broadband router functions: Connect a broadband router.
- When your communication equipment (modem), etc. has broadband router functions but there are no vacant ports: Connect a hub.
- Use shielded LAN cables when connecting to peripheral devices.
- Use a router that supports 10BASE-T/100BASE-TX.
- When operating the VIERA CAST, use high-speed internet service no less than 1.5 Mbps for SD (Standard Definition) and 6 Mbps for HD (High Definition) picture quality by your local broadband company.
 - If using slow Internet connection, the video may not be displayed correctly.
- After connecting to the Internet, perform necessary settings.
- Inserting any cable other than a LAN cable in the LAN terminal can damage the unit.

5.6. Media Information (Disc, SD Card and USB device)

5.6.1. Packaged discs

This chart shows the different type of retail/commercial discs you can use, and also includes the industry-standard logos that should appear on the discs and/or packaging.

Type of media/Logo	Features	Indicated as
BD-Video 	High Definition (HD) movie and music discs - Discs supporting BD-Live (BD-ROM Profile 2) that allows interactive functions to be used when this unit is connected to the Internet in addition to the BONUSVIEW function.  - Discs supporting BONUSVIEW (BD-ROM Profile 1 version 1.1/Final Standard Profile) that allows Picture-in-Picture functions to be used. BONUSVIEW™	BD-V
DVD-Video  	High quality movie and music discs	DVD-V
CD 	Compact Discs (CDs) that contain audio and music Operation and sound quality of CDs that do not conform to CD-DA specifications (copy control CDs, etc.) cannot be guaranteed.	CD

5.6.2. Recorded discs

This chart shows the different type of discs recorded with other devices that you can use.

Finalized This mark means you must finalize the disc with the DVD recorder, etc. before playback. For details about finalizing, refer to the operating instructions for your equipment.

Type of media/Logo	Formats	Indicated as
BD-RE 	- Version 3 of the BD-RE Recording Format - JPEG format	BD-V JPEG
BD-R 	Version 2 of the BD-R Recording Format	BD-V
DVD-RAM 	- Version 1.1 of the DVD Video Recording Format - JPEG format - AVCHD format	DVD-V JPEG AVCHD
DVD-R/RW Finalized  	- DVD-Video Format - Version 1.1 of the DVD Video Recording Format - MP3 format (DVD-RW is not supported) - JPEG format (DVD-RW is not supported) - AVCHD format - DivX format (DVD-RW is not supported)	DVD-V DVD-VR MP3 JPEG JPEG DivX

Type of media/Logo	Formats	Indicated as
DVD-R DL Finalized 	- DVD-Video Format - Version 1.2 of the DVD Video Recording Format - MP3 format - JPEG format - AVCHD format - DivX format	DVD-V DVD-VR MP3 JPEG AVCHD DivX
+R/+RW/+R DL Finalized	+VR (+R/+RW Video Recording) Format - AVCHD format	DVD-V AVCHD
CD-R/RW Finalized	- CD-DA format - MP3 format - JPEG format - DivX format	CD MP3 JPEG DivX

- It may not be possible to play the above discs in some cases due to the type of discs, the condition of the recording, the recording method and how the files were created.
- When a disc recorded in the AVCHD format is being played, the video may be paused for a few seconds at portions spliced, due to deletion or editing.

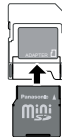
5.6.3. SD cards

This chart shows the different type of cards recorded with other devices that you can use.

Type of media	Formats	Indicated as
SD Memory Card* (from 8 MB to 2 GB) SDHC Memory Card (from 4 GB to 32 GB)	• JPEG format • AVCHD format • MPEG2 format	JPEG AVCHD MPEG2

* Including miniSD Card and microSD Card
In these operating instructions, the cards shown in the table (⇒ above) are comprehensively called SD cards.

- A miniSD Card and a microSD Card must be used with the attached adaptor that comes with the card.
- When using from 4 GB to 32 GB SD cards, only SD cards that display the SDHC logo can be used.
- 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.



- Useable memory is slightly less than the card capacity.
- If the SD card is formatted on a PC, you may not be able to use it on this unit.
- We recommend using a Panasonic SD card. Please confirm the latest information on the following website.
<http://panasonic.co.jp/pavc/global/cs>
(This site is in English only.)
- Keep the Memory Card out of reach of children to prevent swallowing.
- When a card recorded in the AVCHD format is being played, the video may be paused for a few seconds at portions spliced, due to deletion or edition.
- Switch the write-protect switch to the "LOCK" position to protect the content from accidental erasure.

5.6.4. USB device

This unit can playback pictures by connecting the USB memory recorded with a PC or similar in following formats, and Panasonic digital cameras connected via USB cable.

Type of media	Formats	Indicated as
USB device	• MP3 format • JPEG format • DivX format	M P3 JPEG DivX

Compatible USB devices

- USB devices which are defined as USB mass storage class. USB devices that support USB 1.0/1.1 and USB 2.0 Full Speed/High Speed.
- USB devices of up to 128 GB can be used.
- USB devices that support bulk only transfer. CBI (Control/Bulk/Interrupt) is not supported.
- Digital Cameras which require additional programme installation when connected to a PC are not supported.

- MTP (Media Transport Protocol) device is not supported.
- A multi-port USB card reader is not supported.

File system

- FAT12, FAT16 and FAT32 file systems are supported.
- UDF/NTFS/exFAT file system is not supported.
- Depending on the sector size, some files may not work.
- Only the first partition on USB devices with multi-partition is supported.

Despite meeting the conditions mentioned above, there may be USB device that cannot be used with this unit.

This unit does not support USB device charging.

5.6.5. About MP3/JPEG files

File format	MP3	JPEG
Playable media	CD-R*1, CD-RW*1, DVD-R*1.5, DVD-R DL*1.5	CD-R*1, CD-RW*1, DVD-RAM*2, DVD-R*1.5, DVD-R DL*1.5, BD-RE*3, SD card
Extension	Files must have the extension ".mp3" or ".MP3".	Files must have the extension ".jpg" or ".JPG".
Picture resolution	—	between 34×34 and 8192×8192 pixels (sub sampling is 4:2:2 or 4:2:0)
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 ID3 is a tag embedded in MP3 track to provide information about the track. This unit supports the versions listed above but only titles and the names of artists can be displayed. ● If there is a large amount of still picture data etc. within a MP3 file, play may not be possible.	JPEG conforming DCF*4 is supported. Thawing Time: approx. 2 sec. (7 M pixels) ● MOTION JPEG and Progressive JPEG is not supported.

- English alphabet and Arabic numerals are displayed correctly. Other characters may not be displayed correctly.
- The display order on this unit may differ from how the order is displayed on a computer.
- Depending on how you create the media (writing software), files and folders may not play in the order you numbered them.
- Depending on how you create the structure of folders (writing software), files and folders may not play.
- This unit is not compatible with packet-write format.
- Depending on the recording conditions, the media may not play.
- Operation may take time to complete when there are many files and/or folders and some files may not display or be playable.

*1 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.

*2 Discs must conform to UDF 2.0.

*3 Discs must conform to UDF 2.5.

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

*5 Discs must conform to UDF bridge (UDF 1.02/ISO9660).

This unit is not compatible with multi-session.

The default session only is played.

■ Structure of folders that can play back on 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

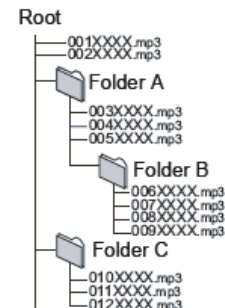
*2 ***: from 100 to 999

XXX: up to 5 figures

*3 ****: from 0001 to 9999

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.

e.g.

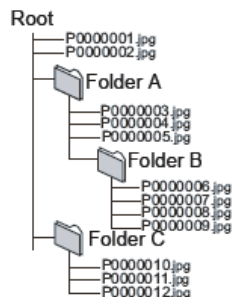


Structures of still picture (JPEG) folders

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

Files inside a folder are displayed in the order they were updated or taken.

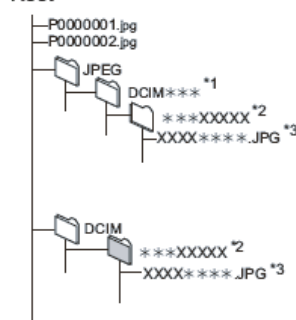
e.g.



in BD-RE/DVD-RAM

● Folder structure is not displayed.

e.g.

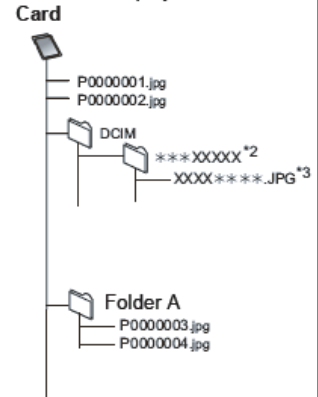


in SD card

Displays JPEG files in all folders.

● Folder structure is not displayed.

e.g.



5.6.6. Misc

Regarding 24p output **BD-V**

Many BD-Video movie contents are recorded in 24 frames/second in accordance with the film materials. However, they will normally be output in 60 frames/second in accordance with the display format.

These can be output in 24p as the original. Therefore, high-quality video can be enjoyed with improved clarity, enhanced perspective, etc.

NECESSARY CONNECTIONS

- Connect to a TV supporting 1080/24p input via an HDMI cable.

NECESSARY SETTINGS

- 24p Output : On

Discs that cannot be played

- | | |
|--|---|
| • BD-RE with the cartridge | • DVD-Audio |
| • 2.6 GB and 5.2 GB DVD-RAM | • Video CD and SVCD |
| • 3.95 GB and 4.7 GB DVD-R for Authoring | • WMA discs |
| • DVD-RAM that cannot be removed from their cartridges | • HD DVD |
| • Version 1.0 of DVD-RW | • Other discs that are not specifically supported |
| • DVD-ROM, CD-ROM, CDV, SACD, Photo CD, MV-Disc and PD | |

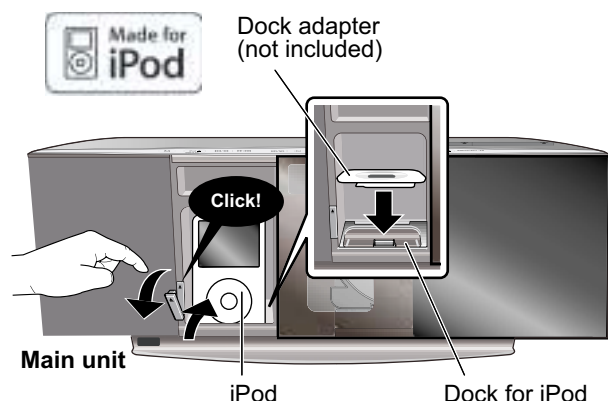
5.7. Using the iPod

Preparation

•To view photos/videos from the iPod

- Ensure the video connection to the VIDEO OUT terminal on this unit.
Operate the iPod menu to make the appropriate photo/video output settings for your TV. (Refer to operating instructions of your iPod.)
- To display the picture, turn on the TV and select the appropriate video input mode.
- Before connecting/disconnecting the iPod, turn the main unit off or reduce the volume of the main unit to its minimum.

- 1 Press [iPod ▲ OPEN/CLOSE] to open the sliding door.
- 2 Press [▲] to unlock the Dock for iPod and pull the docking switch lever to tilt the Dock for iPod.



- Hold the docking switch lever when connecting/disconnecting the iPod.

- 3 Connect the iPod (not included) firmly.
- 4 Gently push the docking switch lever back into place.
Recharging starts when the Dock for iPod is locked back into place.
- 5 Press [iPod ▲ OPEN/CLOSE] to close the sliding door.
 - To operate the iPod in SIMPLE mode, leave the sliding door open and gently operate the iPod's controls.

■ Removing the iPod

- 1 Stop the playback of the iPod.
- 2 Press [iPod ▲ OPEN/CLOSE] to open the sliding door.
- 3 Press [▲] to unlock the Dock for iPod and pull the docking switch lever to tilt the Dock for iPod.
- 4 Pull the iPod straight out.
- 5 Push the docking switch lever back into place.
- 6 Press [iPod ▲ OPEN/CLOSE] to close the sliding door.

Compatible iPod

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



NOTE

- Keep your fingers away from the sliding door when it is moving to avoid minor injuries.
- When removing the iPod, pull it straight out at the same angle as the tilt of the Dock for iPod.

To open the sliding door during disc playback

- During disc playback the sliding door will not open when [iPod ▲ OPEN/CLOSE] is pressed.
- Press [iPod ▲ OPEN/CLOSE] twice to open the sliding door.

While an iPod is connected

- Do not push or pull your iPod back and forth with great force.

About dock adapter

- Attach the dock adapter which should be supplied with your iPod to the dock for the stable use of the iPod.
If you need an adapter, consult your iPod dealer.

About recharging the battery

- iPod will start recharging regardless of whether this unit is on or off.
- IPOD ✱ will be shown on the main unit's display during iPod charging in main unit standby mode.
- Check the iPod to see if the battery is fully recharged.
- If you are not using the iPod for an extended period of time after recharging has completed, disconnect it from main unit, as the battery will be depleted naturally. (Once fully recharged, additional recharging will not occur.)
- The cooling fan may operate while the iPod battery is being charged.



NOTE

- Compatibility depends on the software version of your iPod.
- Audio/video cannot be recorded or transmitted to iPods via this system.
- Panasonic makes no warranty for iPod data management.

•For more information, refer to the operating instructions for iPod.

- The contents of the operating instructions and those displayed on iPod may differ partially, but this will not fundamentally affect use of playback.



TIPS

■ To use the iPod touch features

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

This system features two different iPod playback modes.

The first of these is EXTENDED mode, for playback of music and video contents. With this mode, you can operate the iPod from the main unit. The second mode is SIMPLE mode, which can be used for playback of three types of contents – music, photos, and videos. With this mode, simple operations such as play, stop, and search can be performed on the display of your iPod.

Enjoy music/video (EXTENDED mode)

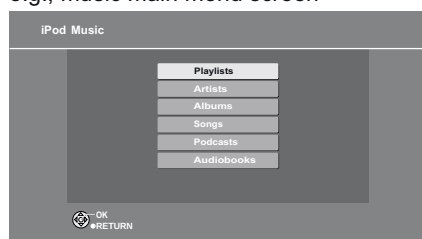
1 Press [iPod] to select IPOD .

The iPod automatically switches to this unit's display mode. To switch the menu, press [STATUS] several times.

Music menu → Video menu
 iPod menu (iPod LCD) ←

- MUSIC or VIDEOS is displayed on the main unit. When playing back video contents, ensure the video connection to the VIDEO OUT terminal on this unit and switch the TV input to video in.

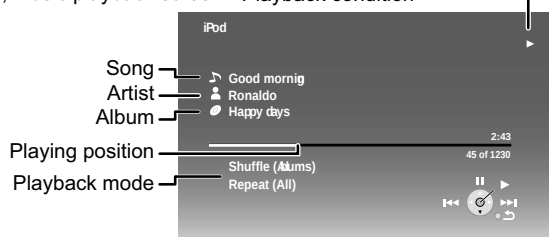
e.g., music main menu screen



2 Press [▲, ▼] to select an item and press [OK].

- Play starts from the selected song or video.
- To display the previous or next page, press [◀, ▶]
- Press [RETURN] to return to the previous screen.

e.g., music playback screen Playback condition



Clear/display iPod Music or Video menu during playback.

Press [TOP MENU/DIRECT NAVIGATOR].



- If the Video menu (EXTENDED mode) is accessed, the video shuffle playback mode on the iPod is set to "Off" when the iPod is disconnected from the unit.

Enjoy photos (SIMPLE mode)

You can also play music and video using SIMPLE mode.

1 Press [iPod] to select IPOD .

2 Press [STATUS] several times to select the iPod menu (iPod LCD).

- ALL is displayed on the main unit.
- If the sliding door is closed, press [iPod ▲ OPEN/CLOSE] to open it. The main unit will continue to operate even if the sliding door is open. Proceed operations through the iPod display.

3 Switch the TV input to video in.

- Ensure the video connection to the VIDEO OUT terminal on this unit.

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.

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

The remote control operation may vary between iPod models.

Other methods of playback

While in MUSIC or VIDEOS mode, it is possible to select the following playback modes.

Items	Selection/playback method
Play Mode	
Shuffle*1	
• Off:	Cancel
• Songs:	Play all songs on iPod in random order.
• Albums:	Play all songs on album in random order.
Repeat	
• Off:	Cancel
• One:	Play a single song/video repeatedly.
• All:	Play all songs/videos from selected items (e.g., Playlists, Albums, etc.) repeatedly.

*1 For music playback only.

1 Press [START].

2 Press [▲, ▼] to select Menu and then press [OK].

3 Press [▲, ▼] to select Play Mode and then press [OK].

4 Press [▲, ▼] to select an item and press [OK].

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



Playback modes during and after connection.

- Music playback modes set on the iPod will be maintained when connected to the main unit. Changes made while the iPod is connected to the main unit be kept on the iPod after disconnecting it.
- If the Video menu (EXTENDED mode) is accessed, the video shuffle playback mode on the iPod is set to "Off" when the iPod is disconnected from the unit.



To return to the previous screen

Press [RETURN].

Basic controls

While playing music or video it is possible to use the following buttons of the remote control.

Buttons	Functions
[▶PLAY]	Play
[■STOP]	Pause
[PAUSE]	• Press [▶PLAY] to restart play. • Playback start position may not be stored in memory in certain cases.
[SKIP◀◀, SKIP▶▶]	Skip
(Press and hold) [SEARCH◀◀, SEARCH▶▶]	Search

- Use the controls on the iPod unit during photo playback.

5.8. Using BD-LIVE or BONUSVIEW in BD-Video

BD-V

What is BONUSVIEW?

BONUSVIEW allows you to enjoy functions such as picture-in-picture or secondary audio etc., with BD-Video supporting BD-ROM Profile 1 version 1.1/ Final Standard Profile.

What is BD-Live?

In addition to the BONUSVIEW function, BD-Video supporting BD-ROM Profile 2 that has a network extension function allows you to enjoy more functions such as subtitles, exclusive images and online games by connecting this unit to the Internet. In order to use the Internet feature, you must have this unit connected to a broadband network.

- These discs may not be on sale in certain regions.
- 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 secondary video (picture-in-picture) and secondary audio

Secondary video can be played from a disc compatible with the picture-in-picture function.

For the playback method, refer to the instructions for the disc.

To turn on/off secondary video

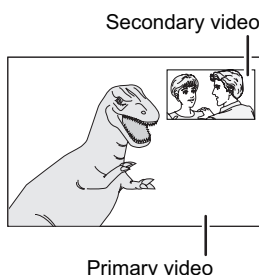
Press [PIP].

Secondary video is played.

- Press the button to turn it ON and OFF.

To turn on/off secondary audio

Set "Soundtrack" in "Secondary Video" to "On" or "Off".



NOTE

- Discs may not always be played back according to the settings on this unit, as certain playback formats are prioritized on certain discs.
- Only the primary video is played during search/slow-motion or frame-by-frame.
- When "BD-Video Secondary Audio" in "Digital Audio Output" is set to "Off", secondary audio will not be played. Please check that "BD-Video Secondary Audio" is set to "On".
- When the secondary video is turned off, the secondary audio will not be played.

Enjoying BD-Live discs with Internet

Many BD-Live compatible discs require content to be downloaded onto an SD card in order to access the available BD-Live features.

- An SD card with 1 GB or more of free space (SD Speed Class Rating 2 or higher) needs to be inserted prior to inserting the BD-Live compatible disc.

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.

Preparation

- Connect to the network.

❶ Insert an SD card.

- If the SD card menu screen is displayed, press [BD/SD] to select "BD/DVD".

❷ Insert the disc.

- For operation method, refer to the instructions on the disc.

To use the above functions, it is recommended that you format the card on this unit.

Format the card using the following procedures.

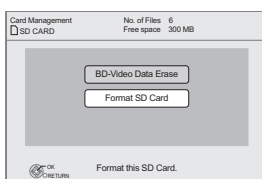
Formatting SD cards/Deleting data

It is impossible to restore data after formatting the card or erasing the data.

Once a card is formatted, all data including those recorded on the PC is erased as well, even if the data were protected with other equipment.

Confirm whether the card can be formatted.

- 1) Insert an SD card.
- 2) Press [START].
- 3) Press [▲, ▼] to select "To Others" 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].



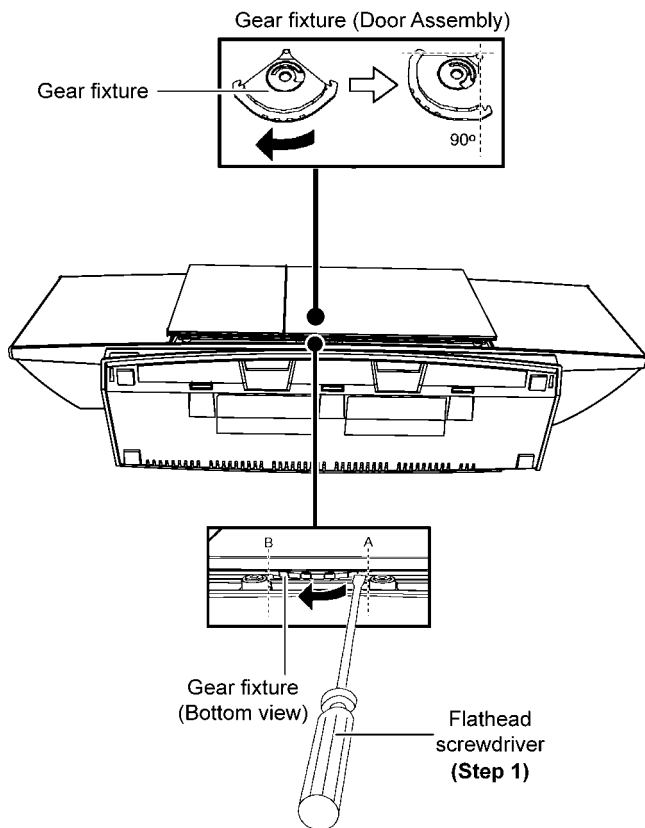
NOTE

- While using this feature, do not remove the SD card. Doing so will cause playback to stop.
- A message may be displayed when SD card doesn't have enough storage capacity for BD-Live content. Please make space available on the current SD card, or insert another SD card.
- For details about usable cards, refer to "Media (Disc, card and USB device) information".
- The unit must be connected to the Internet and set up to use the BD-Live functions. "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. You can restrict Internet access.
- The unit is connected to the Internet when BD-Live functions are used, generating communication charges.
- The playback may be paused depending on the communication environment. Some functions may be disabled to prevent skipping to sections that have not been downloaded, etc.

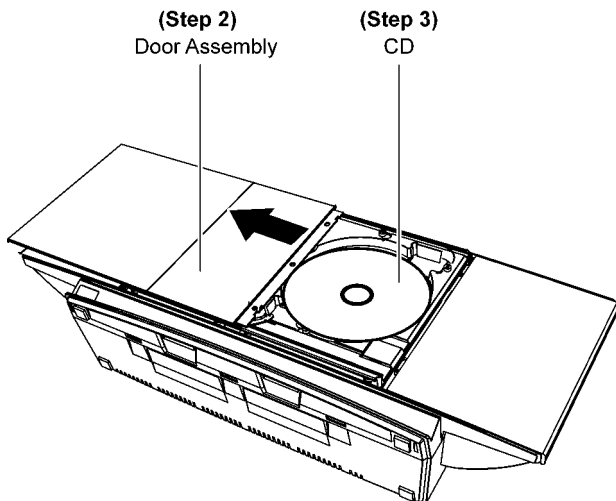
6 Operating Instructions

6.1. Door Assembly Unit Jam

6.1.1. Removing the CD



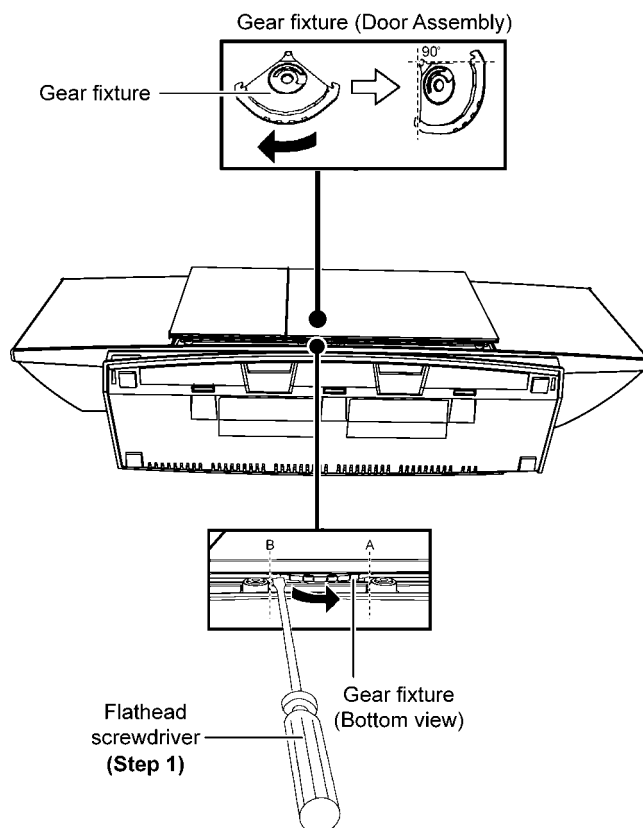
Step 1 Insert a flathead screwdriver into the hole behind the Door Assembly and push the gear fixture from point A to B.



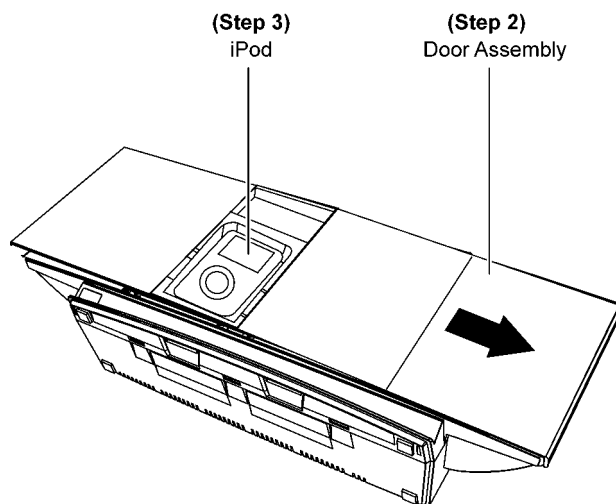
Step 2 Push the Door Assembly as arrow shown until the CD is fully in sight.

Step 3 Remove the CD.

6.1.2. Removing the iPod



Step 1 Insert a flathead screwdriver into the hole behind the Door Assembly and push the gear fixture from point B to A.



Step 2 Push the Door Assembly as arrow shown until the iPod is fully in sight.

Step 3 Remove the iPod.

7 Self-Diagnosis and Special Mode Setting

7.1. Service Mode Summary Table

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

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

- You can check latest error code by transmitting [0] [1] of Remote Control in Service Mode.
Automatic Display on FL will be cancelled when the power is turned off or AC input is turned off during self-diagnosis display is ON.

7.1.1. Error Code Table 1

Error Code	Diagnosis contents	Description	Monitor Display	Automatic FL display
U30	Remote control code error	Display appears when main unit and remote controller codes are not matched.	No display	SET * * is remote controller code of the main unit. Display for 5 seconds.
U59	Abnormal inner temperature detected	Display appears when the drive temperature exceeds 70 C. The power is turned off forcibly. For 30 minutes after this, all key entries are disabled. (Fan motor operates at the highest speed for the first 5 minutes. For the remaining 25 minutes, fan motor is also stopped.) The event is saved in memory as well.	No display	U59 U59 is displayed for 30 minutes.
U71	HDMI incompatible error (HDCP incompatible)	Display this error when the equipment (compatible with DVI such as TV, amplifier etc.) connected to the unit by HDMI is incompatible with HDCP. *HDCP=High-bandwidth Digital Content Protection	No display	U71
U72	HDMI connection error (communication error)	This error is displayed when there are any communication problems with the unit and the equipments (TV, amplifier etc.) connected to the unit by HDMI. (or when there is a problem with the HDMI cable)	No display	U72 U72 display disappears when error has been solved by Power OFF/ON of connecting equipment or by inserting/removing of HDMI cable.
U73	HDMI connection error (authentication error)	when authentication error occurs while the equipments (TV, amplifier etc.) are connected by HDMI. (or when there is a problem with the HDMI cable)	No display	U73 U73 display disappears when error has been solved by Power OFF/ON of connecting equipment or by inserting/removing of HDMI cable.
F99	Hang-up	Displayed when communication error has occurred between Main microprocessor and Timer microprocessor (IC7501).	No display	F99 Displayed is left until the [POWER] key is pressed.
H19	Inoperative fan motor	When inoperative fan motor is detected after powered on, the power is turned off automatically. The event is saved in memory.	No display	No display
F00	No error information	Initial setting for error code in memory (Error code Initialization is possible with error code initialization and main unit initialization.)	No display	No display
F34	Initialization error when main microprocessor is started up for program recording	When initialization error is detected after starting up main microprocessor the power is turned off automatically. The event is saved in memory.	No display	No display
F58	Drive hardware error	When drive unit error is detected, the event is saved in memory.	No display	No display
UNSUPPORT	Unsupported disc error	*An unsupported format disc was played, although the drive starts normally. *The data format is not supported, although the media type is supported. *Exceptionally in case of the disc is dirty.	This disc is incompatible.	UNSUPPORT
NO READ	Disc read error	*A disc is flawed or dirty. *A poor quality failed to start. *The track information could not be read.	Cannot read. Please check the disc.	NOREAD
HARD ERR	Drive error	The drive detected a hard error.	DVD drive error.	HARD ERR The character indication flows sideways.

7.1.2. Error Code Table 2

Error Code	Diagnosis contents	Description	Monitor Display	Automatic FL display
SELF CHECK	Restoration operation	Since the power cord fell out during a power failure or operation, it is under restoration operation. *It will OK, if a display disappears automatically. If a display does not disappear, there is the possibility that defective Digital P.C.B. / DVD drive.	No display	SELF CHECK
PLEASE WAIT	Unit is in termination process	Unit is in termination process now. BYE is displayed and power will be turned off.	No display	PLEASE WAIT The character indication flows sideways.
UNFORMAT	Unformatted disc error	You have inserted an unformatted DVD-RAM or DVD-RW that is unformatted or recorded on other equipment.	The disc is not formatted properly.	UNFORMAT
No PLAY	When there is a viewing restriction on a BD-Video or DVD-Video.	Rating password is set.	No display	No PLAY

7.1.3. Power Supply & Digital Amplifier Error Code Table

Error Code	Diagnosis Contents	Description of error	Automatic FL Display	Remarks
F61	The abnormalities in an output or power supply circuit of POWER AMP	In normal operation, when DCDET2 goes to "L" (Low) (Not during POWER OFF condition), F61 appears on FLDisplay for 1 second and PCONT goes to "L" (Low). This is due to speaker output has DC voltage or fan is not working.	F61	Press [■STOP] on main unit for next error.
F76	Abnormality in the output voltage of stabilized power supply	In normal operation when DCDET1 is detected "L" (Low) for two consecutive times, F76 is displayed on FL for 1 second and after that PCONT will be turned to "L" (Low). This is due to any of the DC voltages (+9V, +7V, -7V, +5V, +5.3V etc.) C22 not available.	F76	Press [■STOP] on main unit for next error.
H19	Fan Module	Fan Module is not operating properly	H19	Press [■STOP] on main unit for next error.

7.2. Special Mode Setting

7.2.1. Service Mode Table 1

Item		FL display	Key operation
Mode name	Description		Front Key
Initialize Mode	*All the main unit's parameters are initialized.	INITIALIZE	Press [STOP], [SKIP FWD] and [OPEN/CLOSE] keys simultaneously for five seconds when power is off.
Rating password	The audiovisual level setting password is initialized to Level 8 .	INIT	Open the tray, and press [SKIP REV] on remote control, follow by [PLAY] simultaneously for 5 seconds.
Service Mode	Setting every kind of modes for servicing. *Details are described in 7.3.1. Service Mode at a glance .	SERVICE	When the power is off, press [SKIP FWD] & [SOUND] on remote control and [PLAY] keys simultaneously for 5 seconds.
BD-ROM history cleaning	< Persistent Storage > of BD-ROM standard is cleaned. Screen display: [The player's history data has been cleared] is displayed for five seconds.	***** Same display as before execution.	When power on press [STOP] on main unit & [POWER] on remote control.
Forced disc eject	Removing a disc that cannot be ejected. The tray will open and unit will shift to P-off mode. While Demonstration Lock is being set, this Forced disc eject function is not accepted.	The display before execution leaves. *****	When power is off, press [SKIP] & [OPEN/CLOSE] keys simultaneously for 5 seconds or more.
Forced power-off	When the power button is not effective while power is ON, turn off the power forcibly.	Display in P-off mode.	Press [POWER] key over than 10 seconds.
Aging	Perform sequence of modes as * Aging Description shown below continually.	Display following the mode.	When the power is ON, press [SKIP FW], [PLAY] & [OPEN/CLOSE] simultaneously for over 5 seconds and less than 10 seconds. NOTE1: If Unit has not turned into Aging mode by operations shown above, execute TEST MODE once and re-execute operation shown above. (*All the main unit's parameters include tuner are initialized by TEST mode.) NOTE2: If the unit has hung-up because of pressing keys for over 10 seconds, once turn off the power, and re-execute this command. *When releasing Aging mode, press [POWER] key over 10 seconds.

7.2.2. Service Mode Table 2

Item		FL display	Key operation
Mode name	Description		Front Key
Demonstration lock/unlock	Ejection of the disc is prohibited. The lock setting is effective until unlocking the tray and not released by Main unit initialization of service mode.	*When lock the tray. LOCK LOCK is displayed for 3 seconds.	When the power is on, press [PLAY] and [OPEN/CLOSE] keys simultaneously for 5 seconds. Note: When a disc is not in tray, this setting is not effective.
		*When unlock the tray. UNLOCK UNLOCK is displayed for 3 seconds.	When the power is on, press [PLAY] and [OPEN/CLOSE] keys simultaneously for 5 seconds.
		*When press OPEN/CLOSE key while the tray being locked. LOCK Display LOCK for 3 seconds.	Press [OPEN/CLOSE] key while the tray is being locked.
Progressive initialization	The progressive setting is initialized to Interface.	The display before execution leaves. *****	When the power is on (SS mode), press [STOP] and [PLAY] simultaneously for 5 seconds.
Firmware version check	To check for main and sub firmware, model code.	FL Display (i) M-XXXX -> Main Firmware Version (ii) S-YYYY -> Sub Firmware Version (iii) AA/BB/CC -> Date (iv) ZZZZZZ -> Model No.	When the power is on, press & hold [SKIP REV] follow by [POWER].

7.3. Service Mode at glance

Service mode setting: While the power is off, press [SKIP FWD] & [PLAY] on main unit follow by [SOUND] on remote control simultaneously for five second or more.

7.3.1. Service Mode Table 1

Item		FL display	Key operation (Remote controller key)
Mode name	Description		
Release Items	Item of Service Mode executing is cancelled.	SERVICE	Press [0] [0] or [Return] in service mode.
Error Code Display	Last Error Code of U/H/F held by Timer is displayed on FL. *Details are described in 7.1.1. Self-Diagnosis Functions .	♣ □ □ * ♣ shows U/H/F. □ □ shows number. If any error history dose not exist, [F00] is displayed.	Press [0] [1] in service mode
ROM Version Display	1. Region code (displayed for 5 sec.) 2. Main firm version (displayed for 5 sec.) 3. Timer firm version (displayed for 5 sec.) 4. Drive firm version (displayed for 5 sec.) 5. ROM correction version (left displayed)	1. NO\$% \$: Region of DVD (Example: 1,2.....) %: Region of BD (Example: A,B.....) 2. ***** 3. ***** 4. ***** 5. *** * are version displays.	Press [0] [2] in service mode
Drive check	Simple quality of BD/DVD drive.	When BD/DVD drive is OK DRV OK When BD/DVD drive is NG DRV NG *If the date of the present or the trouble occurred time is incorrect, it may be not able to judge correctly.	Press [3] [8] in service mode.

7.3.2. Service Mode Table 2

Item		FL display	Key operation
Mode name	Description		(Remote controller key)
Laser Used Time Indication	Check laser used time (hours) of drive.	***** (***** is the used time display in hour. Laser used time of BD/DVD/CD in Playback/Recording mode is Counted. 1. Blu-ray Playback: BP 0 2. Blu-ray Recording: BR 0 3. DVD Playback: DP9999 4. DVD Recording: DR 0 5. CD: CD 0	Press [4] [1] in service mode.

7.3.3. Service Mode Table 3

Item		FL display	Key operation
Mode name	Description		(Remote controller key)
BD/DVD drive last error	BD/DVD drive error code display.	1. Error Number is displayed for 5 seconds. NO **** 2. Time when the error has occurred is display for 5 seconds. DDhhmm DD : Day hh : Hour mm : Minute 3. Last drive error (1/2) is displayed for 5 seconds. ***** 00 : Bad disc 03 : Bad disc 04 : Bad disc or drive malfunction 4. Last drive error (2/2) is displayed for five seconds. ***** 5. Error occurring disc type is displayed for 5 seconds. DVD-RW DVDRW CD-R CDR CD-RW CDRW DVD+R DVDPR DVD+RW DVDPRW BD-ROM BDRM	Press [4] [2] in service mode.

7.3.4. Service Mode Table 4

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

7.3.5. Service Mode Table 5

Item		FL display	Key operation (Remote controller key)																																																																							
Mode name	Description																																																																									
		□□: Error occurring disc situation <table border="1"> <thead> <tr> <th rowspan="2">Display</th><th colspan="3">Detail</th></tr> <tr> <th>Disc distinction</th><th>With or without Cartridge</th><th>Disc cart-ridge state</th></tr> </thead> <tbody> <tr><td>00</td><td>OK</td><td>With</td><td>Not opened</td></tr> <tr><td>10</td><td>OK</td><td>With</td><td>Not opened</td></tr> <tr><td>20</td><td>OK</td><td>With</td><td>Opened</td></tr> <tr><td>30</td><td>OK</td><td>With</td><td>Opened</td></tr> <tr><td>40</td><td>OK</td><td>Without</td><td>Not opened</td></tr> <tr><td>50</td><td>OK</td><td>Without</td><td>Not opened</td></tr> <tr><td>60</td><td>OK</td><td>Without</td><td>Opened</td></tr> <tr><td>70</td><td>OK</td><td>Without</td><td>Opened</td></tr> <tr><td>80</td><td>NG</td><td>With</td><td>Not opened</td></tr> <tr><td>90</td><td>NG</td><td>With</td><td>Not opened</td></tr> <tr><td>A0</td><td>NG</td><td>With</td><td>Opened</td></tr> <tr><td>B0</td><td>NG</td><td>With</td><td>Opened</td></tr> <tr><td>C0</td><td>NG</td><td>Without</td><td>Not opened</td></tr> <tr><td>D0</td><td>NG</td><td>Without</td><td>Not opened</td></tr> <tr><td>E0</td><td>NG</td><td>Without</td><td>Opened</td></tr> <tr><td>F0</td><td>NG</td><td>Without</td><td>Opened</td></tr> </tbody> </table>	Display	Detail			Disc distinction	With or without Cartridge	Disc cart-ridge state	00	OK	With	Not opened	10	OK	With	Not opened	20	OK	With	Opened	30	OK	With	Opened	40	OK	Without	Not opened	50	OK	Without	Not opened	60	OK	Without	Opened	70	OK	Without	Opened	80	NG	With	Not opened	90	NG	With	Not opened	A0	NG	With	Opened	B0	NG	With	Opened	C0	NG	Without	Not opened	D0	NG	Without	Not opened	E0	NG	Without	Opened	F0	NG	Without	Opened	
Display	Detail																																																																									
	Disc distinction	With or without Cartridge	Disc cart-ridge state																																																																							
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E0	NG	Without	Opened																																																																							
F0	NG	Without	Opened																																																																							
CEC (H) output	Check of the CEC terminal high output of HDMI.	When the check is OK CECHOK When the check is NG CECHNG	Press [5] [5] in service mode.																																																																							
CEC (L) output	Check of the CEC terminal low output of HDMI.	When the check is OK CECLOK When the check is NG CECLNG	Press [5] [6] in service mode.																																																																							
Tray OPEN/CLOSE Test	The DVD drive tray is opened and closed repeatedly.	***** * is number of open/close cycle times.	Press [9] [1] in service mode *When releasing this mode, press the [POWER] button of Remote Controller more than 10 seconds.																																																																							
Delete the Laser Used Time	Laser used time stored in the memory of the unit is deleted.	CLR	Press [9] [5] in service mode.																																																																							
Delete the Last Drive Error	Delete the Last Drive Error information stored on the DVD Drive.	CLR	Press [9] [6] in service mode.																																																																							
Delete the Error History	Delete Error History information stored on the unit.	CLR	Press [9] [7] in service mode.																																																																							
Error code initialization	Initialization of the last error code held by timer (Write in F00)	CLR	Press [9] [8] in service mode.																																																																							
Initialize Service	Last Drive Error, Error history and Error Codes stored on the unit are initialized to factory setting.	CLR	Press [9] [9] in service mode.																																																																							
Finishing service mode	Release Service Mode.	Display in STOP (SS) mode. *****	Press power button on the front panel or Remote controller in service mode.																																																																							

8 Service Fixture & Tools

8.1. Service Tools and Equipment

Prepare service tools before process service position.

Service Tools		Remarks
SMPS P.C.B. (CN5802) - Main P.C.B. (CN7001)	REXX0680 (11P wire)	(RTL)
SMPS P.C.B. (H5801) - D-Amp P.C.B. (CN5502)	REXX0683 (8P wire)	(RTL)
Relay P.C.B. (P55901) - Digital P.C.B. (P55001)	RFKZBTX70EG1 (45P FFC)	(RTL)
D-Amp P.C.B. (CN5503) - Main P.C.B. (CN401)	RFKZBTX70EG2 (22P FFC)	(RTL)

9 Disassembly and Assembly Instructions

“ATTENTION SERVICER”

Be careful when disassembling and servicing.

Some chassis components may have sharp edges.

Special Note:

1. This section describes the disassembly procedures for all the major printed circuit boards and main components.
2. Before the disassembly process was carried out, do take special note that all safety precautions are to be carried out.
(Ensure that no AC power supply is connected during disassembling.)
3. For assembly after operation checks or replacement, reverse the respective procedures.
Special reassembly procedures are described only when required.
4. Do take note of the locators on each printed circuit board during reassembling procedures.
5. The Switch Regulator IC may have high temperature after prolonged use.
6. Use caution when removing the top cabinet and avoid touching heat sinks located in the unit.

CAUTION: HOT!!
PLEASE DO NOT
TOUCH THE HEAT SINK

7. Select items from the following index when checks or replacement are required.

- Disassembly of Door Assembly
- Disassembly of Left & Right Ornament
- Disassembly of Rear Cabinet
- Disassembly of Top Ornament Assembly
- Disassembly of Power Button and Volume Button Assembly
- Disassembly of Rear Shield
- Disassembly of Fan Sub Assembly
- Disassembly of SMPS Sub Block
- Disassembly of Tuner Pack
- Disassembly of SMPS and AC Inlet P.C.B.
- Replacement of Switching Regulator IC (IC5701)
- Replacement of Rectifier Diode (D5702)
- Replacement of Regulator Diode (D5801)
- Replacement of Regulator Diode (D5802)
- Replacement of Regulator Diode (D5803)
- Disassembly of Main P.C.B.
- Disassembly of SD USB Wireless Assembly
- Disassembly of Wireless Adapter P.C.B.
- Disassembly of SD USB P.C.B.
- Disassembly of D-Amp P.C.B.
- Replacement of Audio Amplifier Driver IC (IC5001)
- Disassembly of Digital P.C.B.
- Disassembly of BD Mechanism Assembly
- Disassembly of Motor P.C.B.
- Disassembly of Door Switch P.C.B.
- Disassembly of FL P.C.B.
- Disassembly of Mechanism Switch P.C.B.
- Disassembly of iPod Fan P.C.B.
- Disassembly of iPod Fan
- Disassembly of iPod Switch P.C.B.
- Disassembly of iPod Docking Tub Assembly
- Disassembly of iPod P.C.B.
- Disassembly of IR P.C.B.

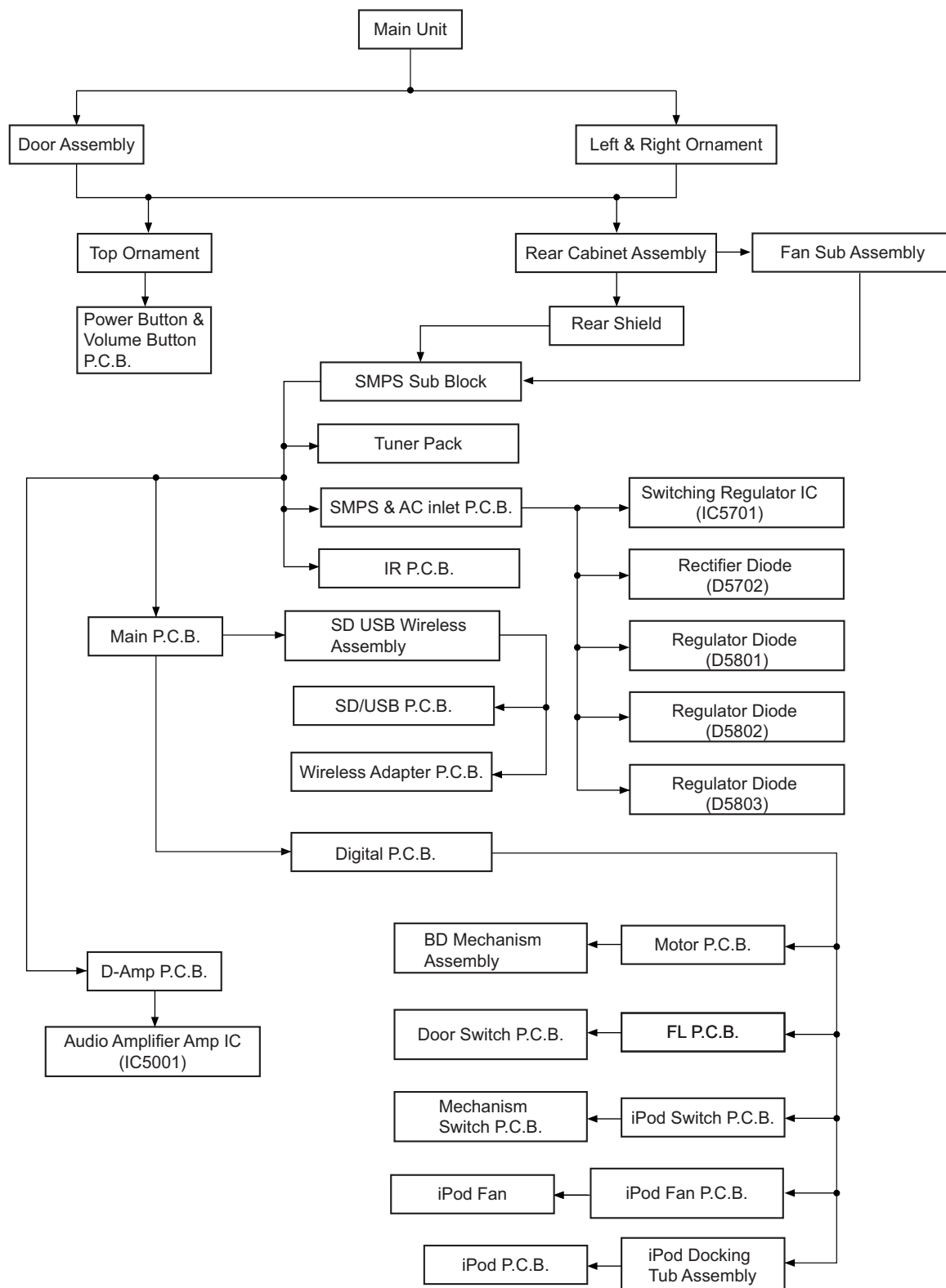
CAUTION NOTE:

Please use original screw and at correct locations.

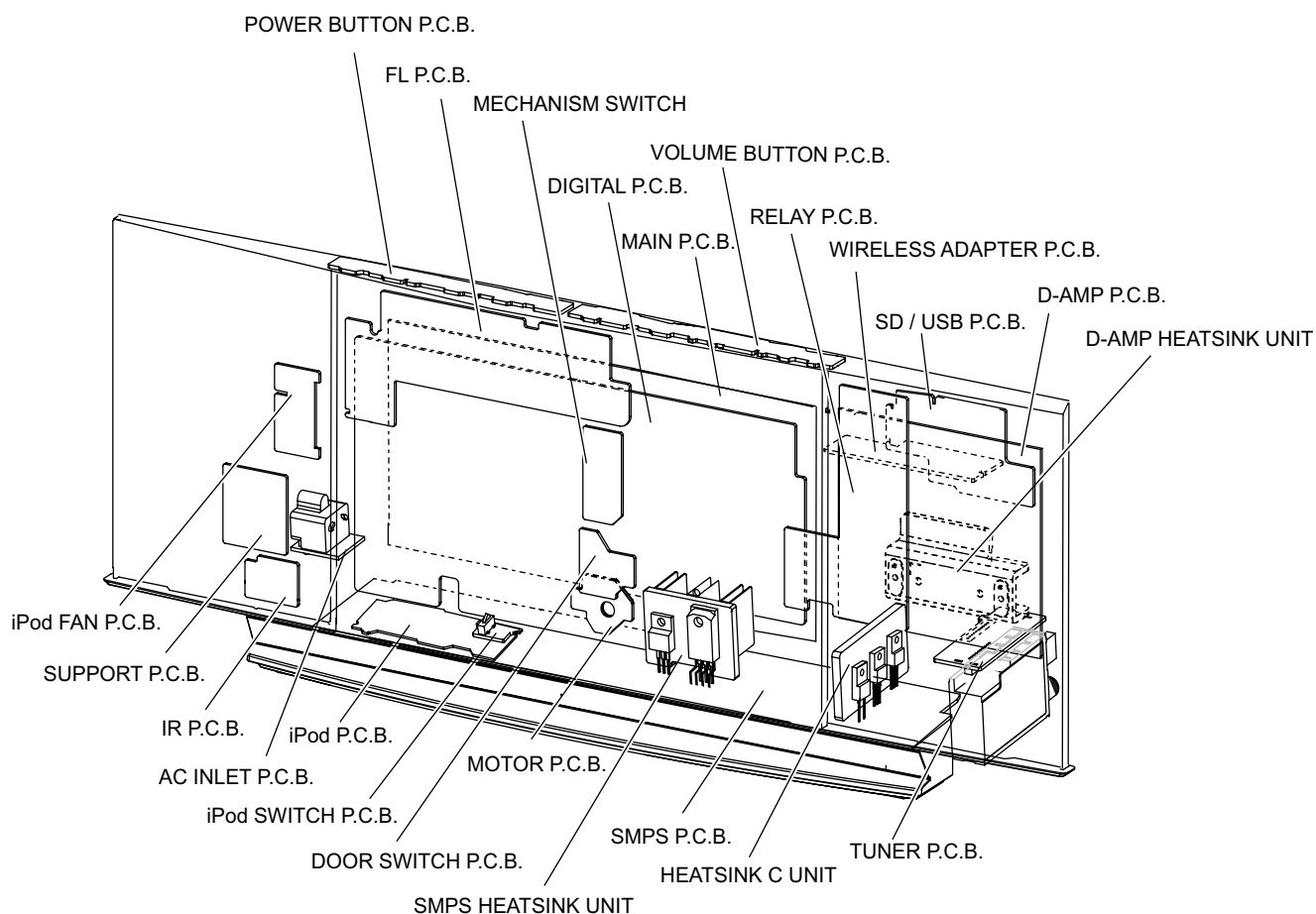
Below shown is part no. of different screw types used:

- | | |
|----------------------|----------------------|
| a :RHD26046 | g :RHD30119-K |
| b :XSN3+4FJK | h :XTB2+6GFJK |
| c :XTB3+10JFJ | i :RHD14136 |
| d :RHD30119-K | j :XTB3+10JFJ |
| e :RHD26043-1 | k :RHD26056 |
| f :RHD30090-1 | |

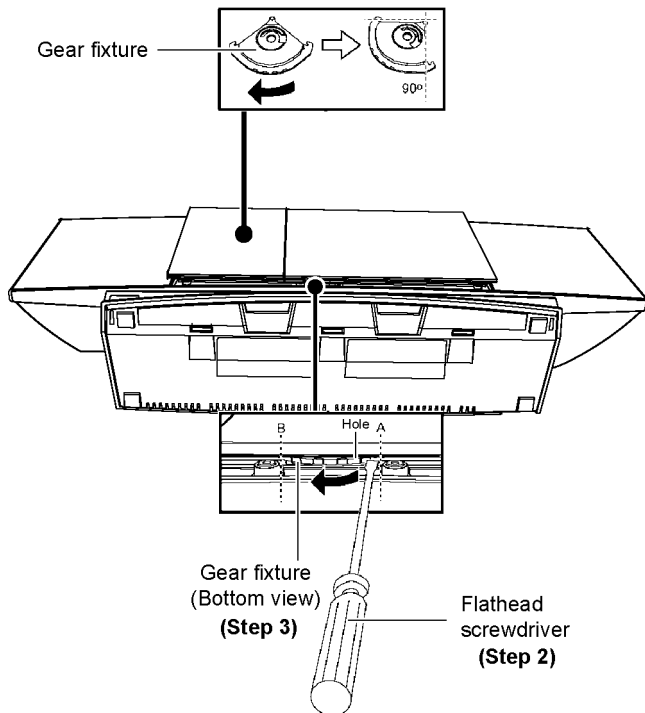
9.1. Disassembly Flow Chart



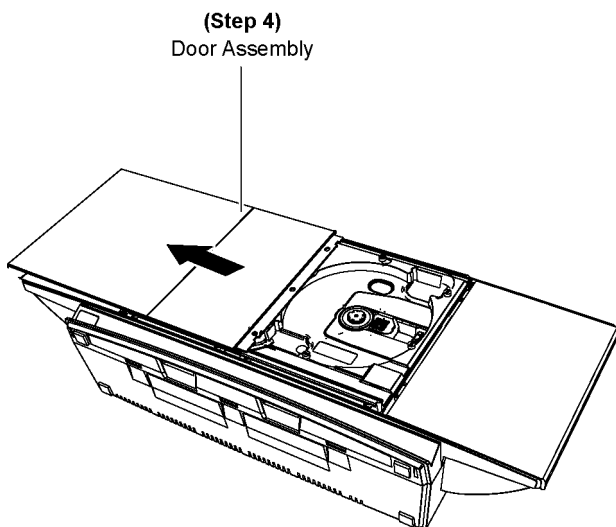
9.2. Main Components and P.C.B. Locations



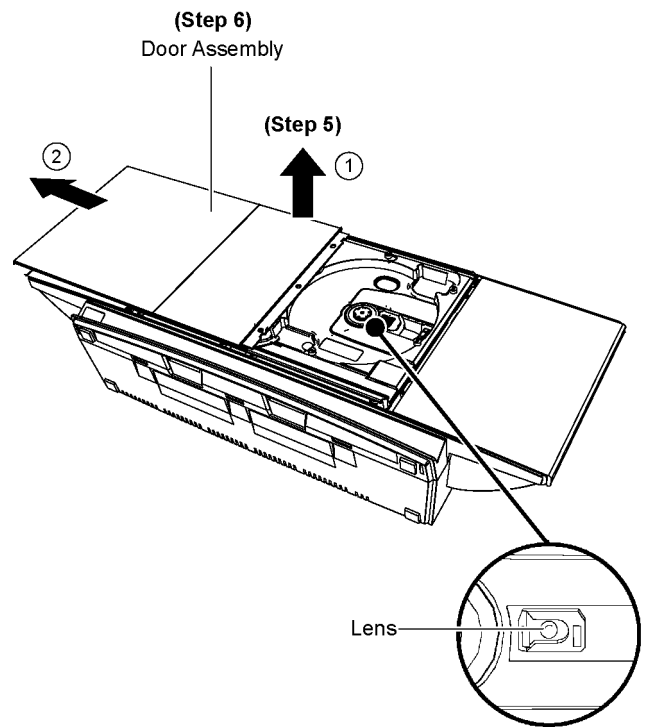
9.3. Disassembly of Door Assembly



- Step 1** Upset the main unit as diagram shown.
Step 2 Insert a flathead screw driver into the hole behind the Door Assembly.
Step 3 Push the gear fixture from point A to B.
Note The gear fixture will be disengage after pushing.

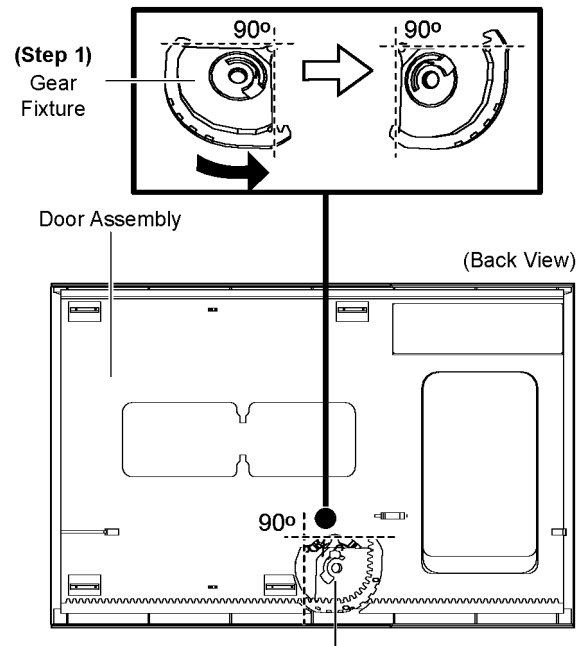


- Step 4** Gently push the Door Assembly manually until it is fully extended.

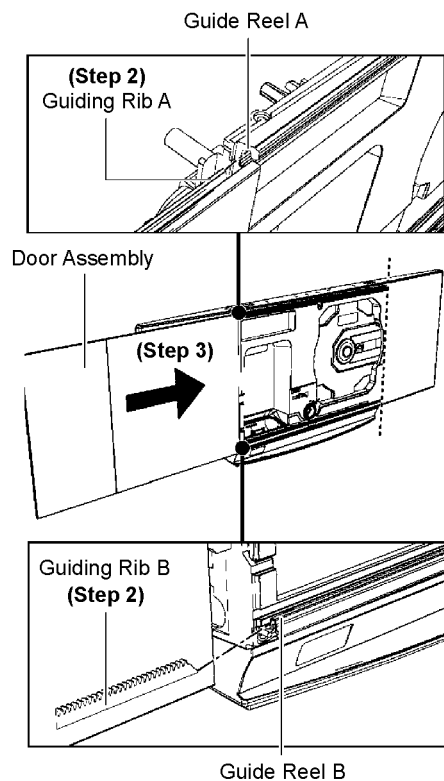


- Step 5** Lift up the Door Assembly slightly as arrow (1) shown.
Step 6 Push the Door Assembly as arrow (2) shown.
Step 7 Remove the Door Assembly.
Caution: During assembling/ disassembling, avoid touching the Lens as it be damage the laser lens.

• Assembly of Door Assembly.



- Step 1** Turn the gear fixture as diagram shown.



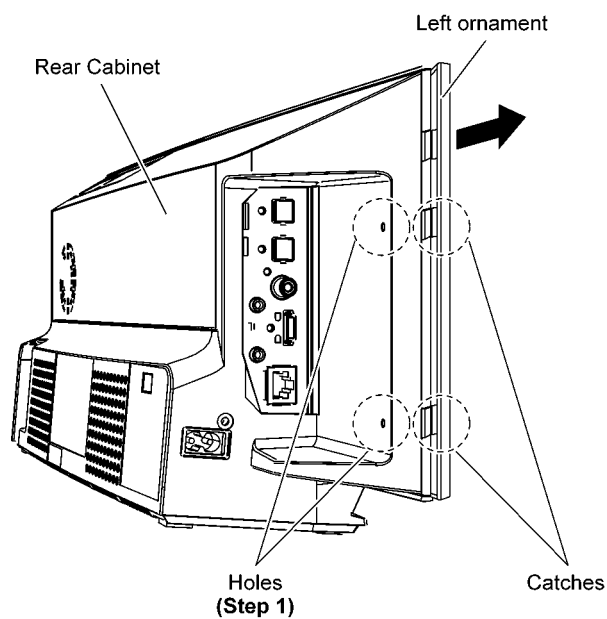
Step 2 Align the Door Assembly with the (upper & lower rib), guide reel (A & B) on the front panel.

Step 3 Gently push the Door Assembly until it is fully closed.

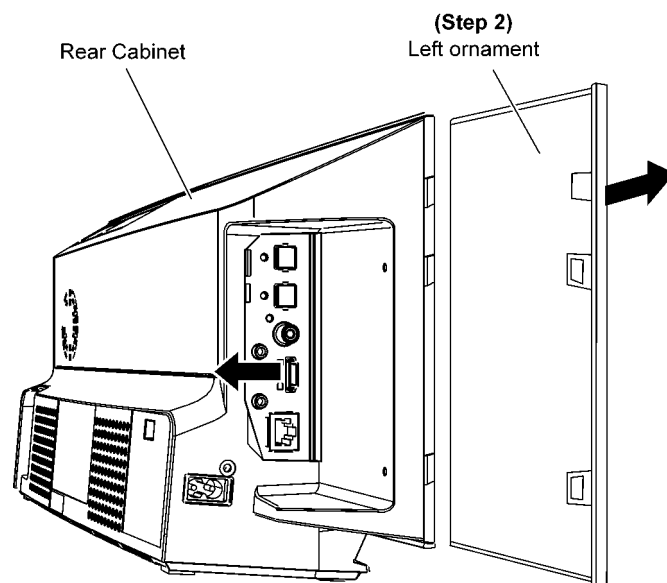
Caution: Avoid using strong force, ensure the Door Assembly move smoothly. Repeat steps if there is problem in the assembling.

9.4. Disassembly of Left Ornament & Right Ornament

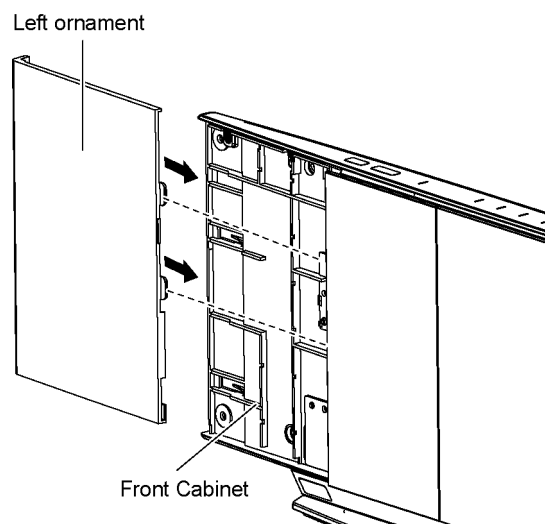
• Disassembly of Left Ornament.



Step 1 Insert a pin into the holes to release the catches.

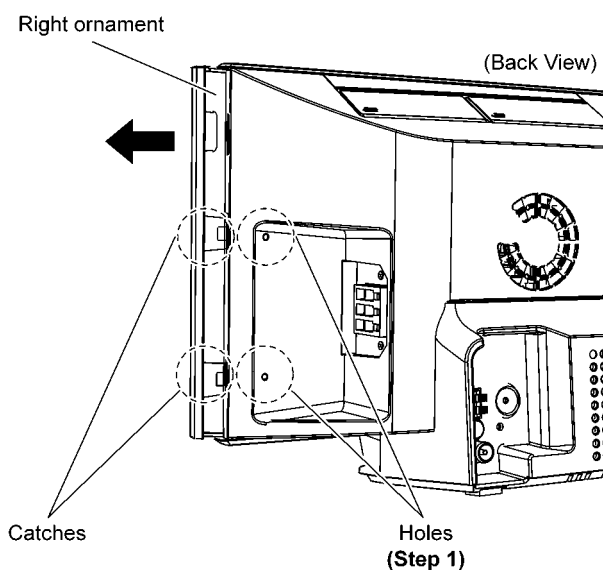


Step 2 Slide to remove the Left Ornament.

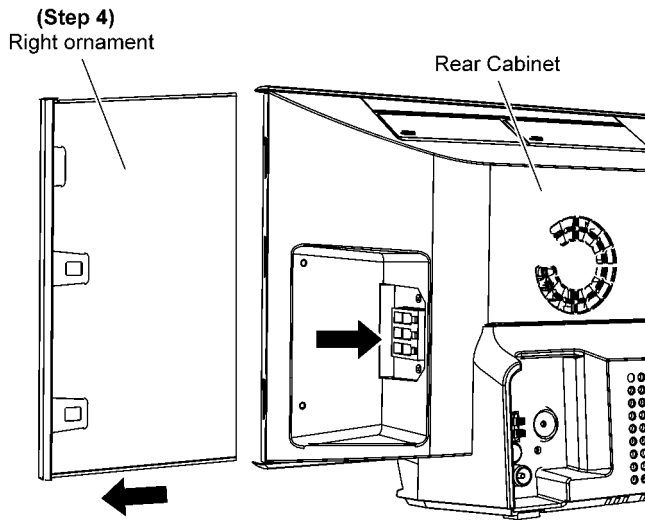


Caution: During assembling, ensure the Left Ornament is attached properly.

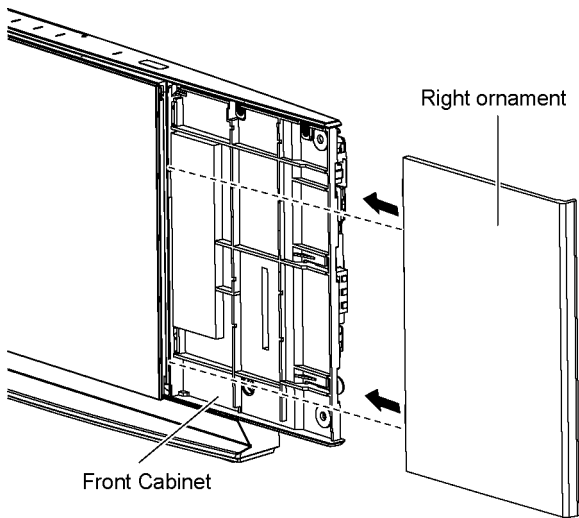
• Disassembly of Right Ornament.



Step 3 Insert a pin into the holes to release catches.



Step 4 Slide to remove the Right Ornament.

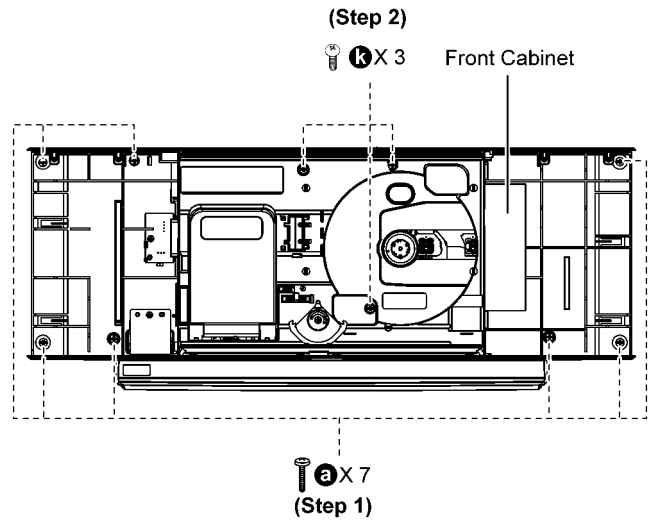


Caution: During assembling, ensure the Right Ornament is attached properly.

9.5. Replacement of Rear Cabinet

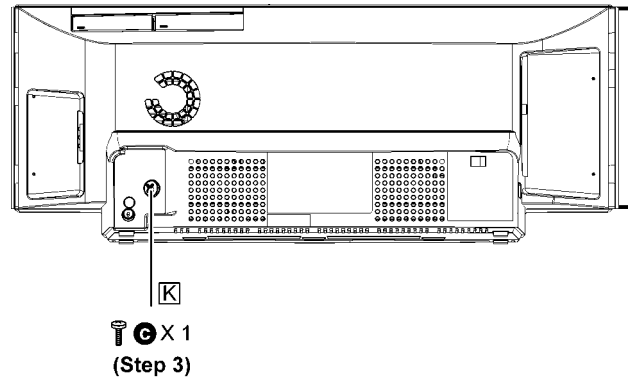
- Follow the (Step 1) to (Step 7) of Item 9.3.
- Follow the (Step 1) to (Step 8) of Item 9.4.

9.5.1. Disassembly of Rear Cabinet

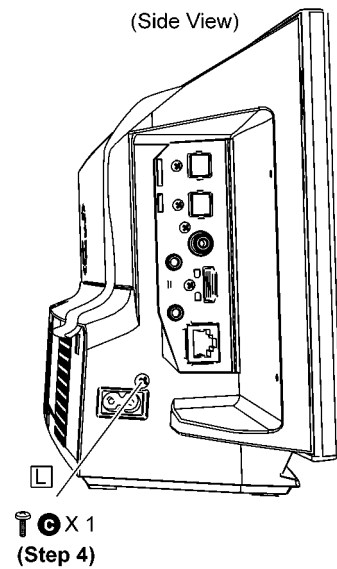


Step 1 Remove 7 screws.

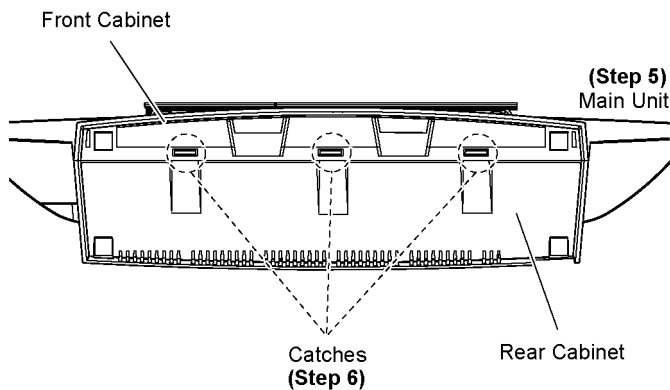
Step 2 Remove 3 screws.



Step 3 Remove 1 screw.



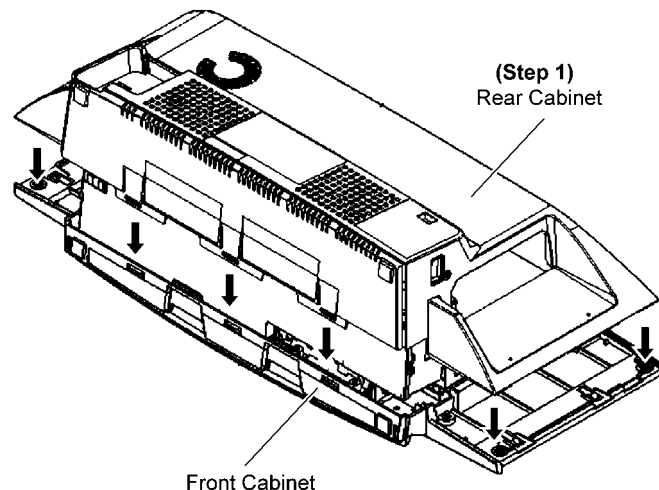
Step 4 Remove 1 screw at the side of rear cabinet.



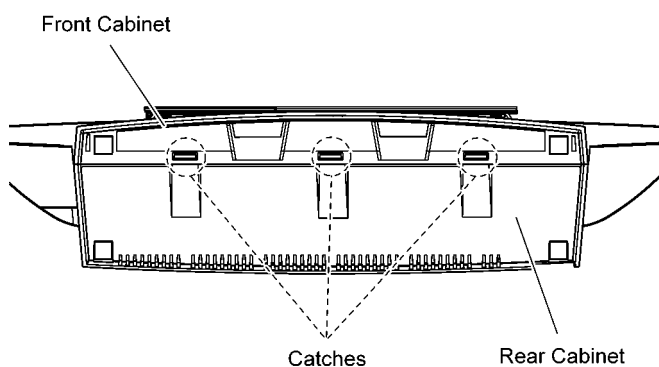
Step 5 Upset the main unit.

Step 6 Release 3 catches at the bottom of rear cabinet.

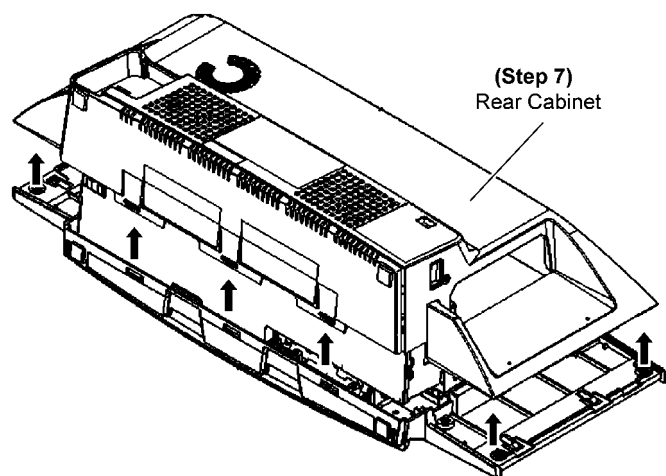
Caution: Ensure it is fully caught during assembling.



Step 1 Fix the Rear Cabinet onto the front cabinet.

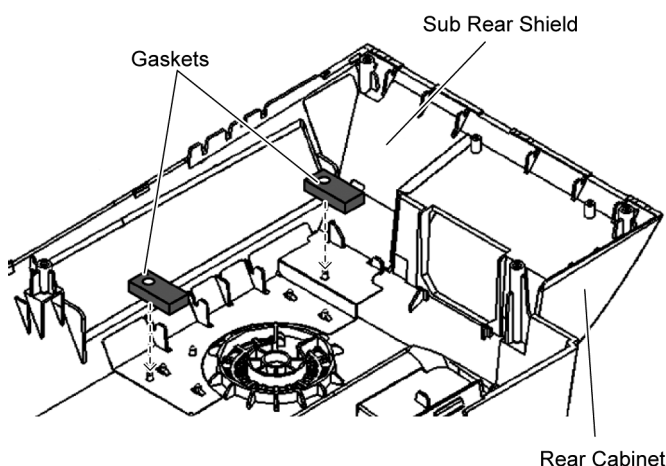


Caution: Ensure it is fully caught onto the front cabinet.



Step 7 Lift up to remove rear cabinet.

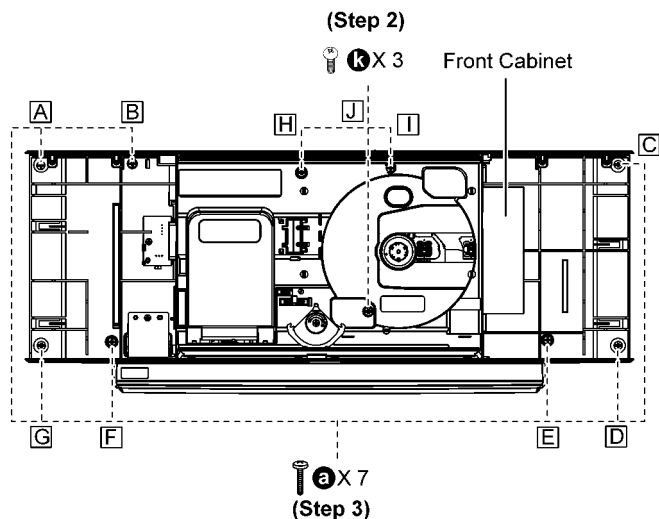
Caution: During assembling, ensure that rear cabinet assembly is properly fixed and fully caught onto front cabinet.



Caution: During replacement of rear cabinet, ensure the gaskets are attached, replace gaskets if broken.

9.5.2. Assembly of Rear Cabinet

- Follow the (Step 1) to (Step 7) of Item 9.5.1



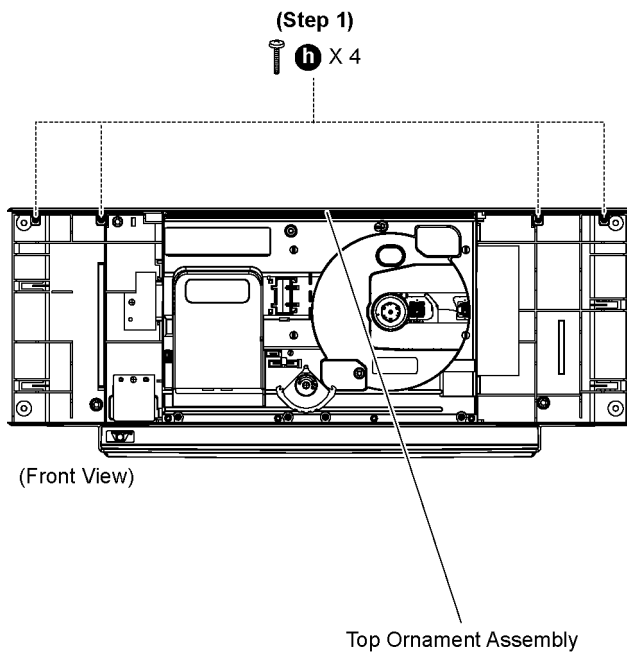
Step 2 Mount 3 screws onto the front cabinet.

Step 3 Mount 7 screws onto the front cabinet.

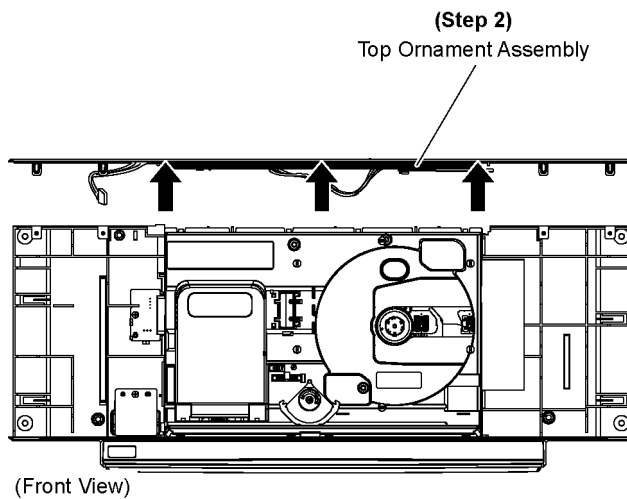
Caution: Please follow screwing sequence (A to J) to mount the screws onto front cabinet.

9.6. Disassembly of Top Ornament Assembly

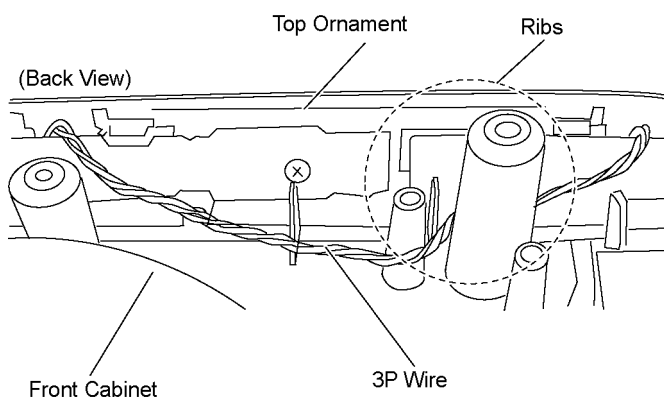
- Follow the (Step 1) to (Step 7) of Item 9.3.
- Follow the (Step 1) to (Step 8) of Item 9.4.



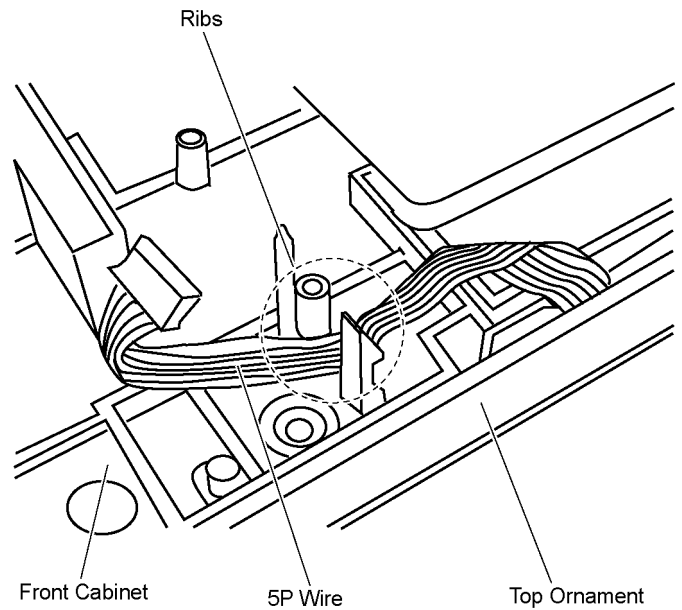
Step 1 Remove 4 screws at Top Ornament Assembly.



Step 2 Lift up Top Ornament Assembly.



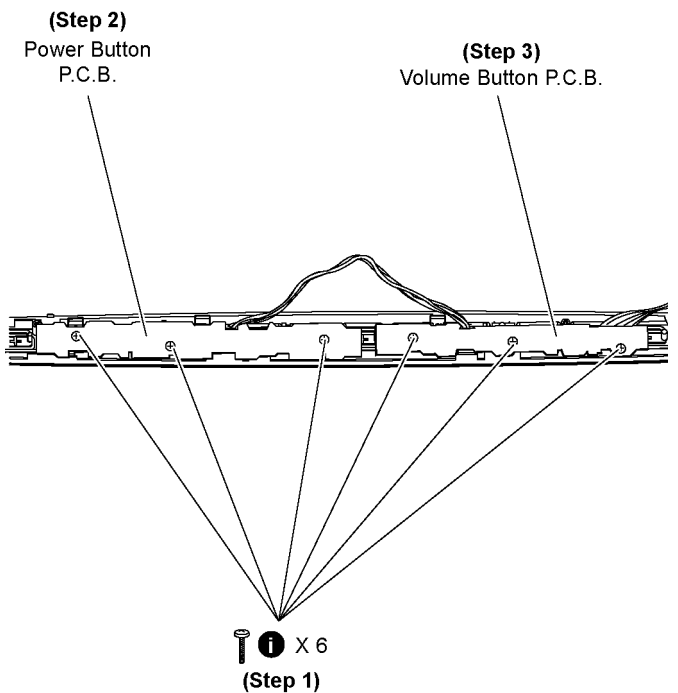
Caution: During assembling, ensure that 2P wire is dressed between the ribs properly.



Caution: During assembling, ensure that 4P wire is dressed between the ribs properly.

9.7. Disassembly of Power Button and Volume Button P.C.B.

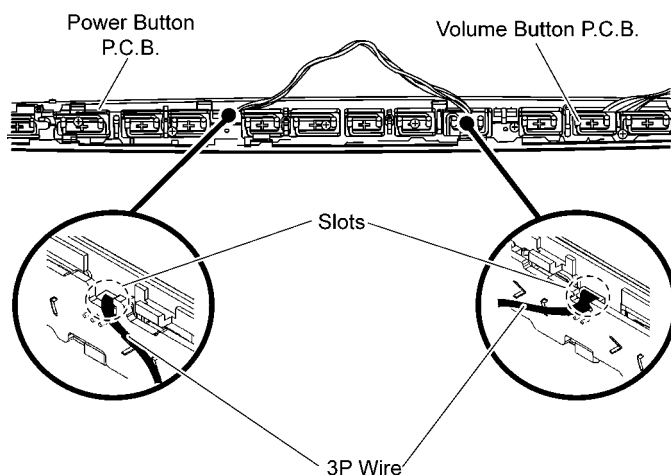
- Follow the (Step 1) to (Step 7) of Item 9.3.
- Follow the (Step 1) to (Step 8) of Item 9.4.
- Follow the (Step 1) to (Step 2) of Item 9.6.



Step 1 Remove 6 screws.

Step 2 Remove Power Button P.C.B..

Step 3 Remove Volume Button P.C.B..

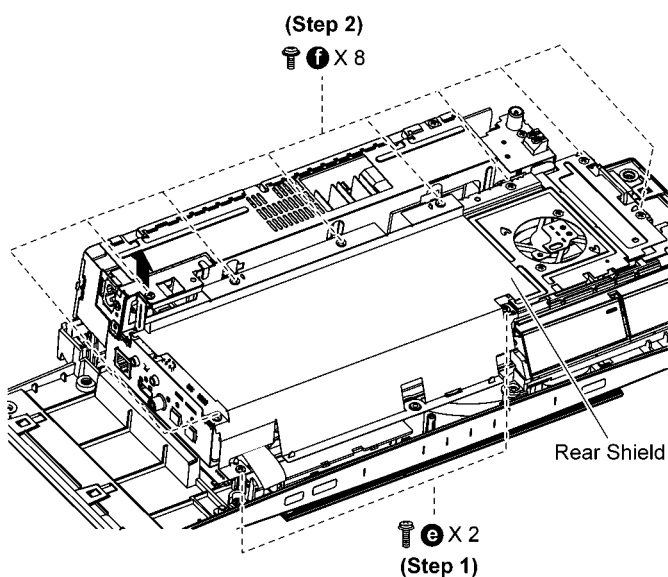


Caution: During assembling, ensure that 3P wire is properly dressed into the slots.

9.8. Disassembly of Rear Shield

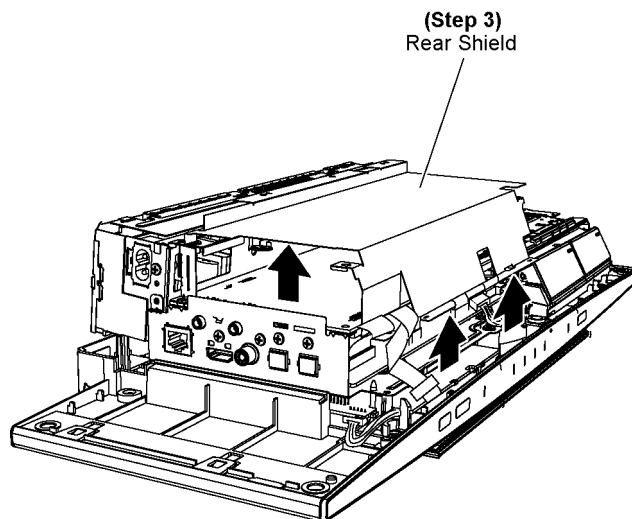
- Follow the (Step 1) to (Step 7) of Item 9.3.
- Follow the (Step 1) to (Step 8) of Item 9.4.
- Follow the (Step 1) to (Step 7) of Item 9.5.1.

9.8.1. Disassembly of Rear Shield

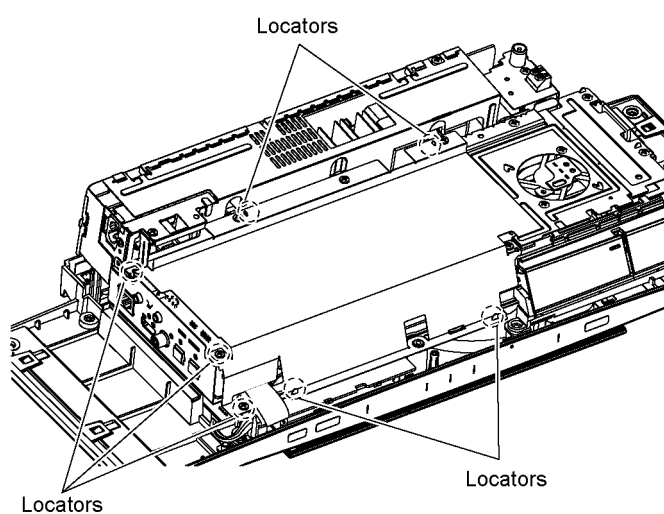


Step 1 Remove 2 screws.

Step 2 Remove 8 screws.



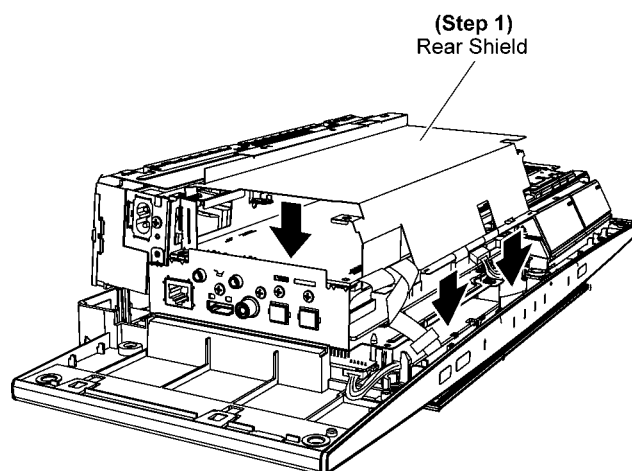
Step 3 Remove rear shield.



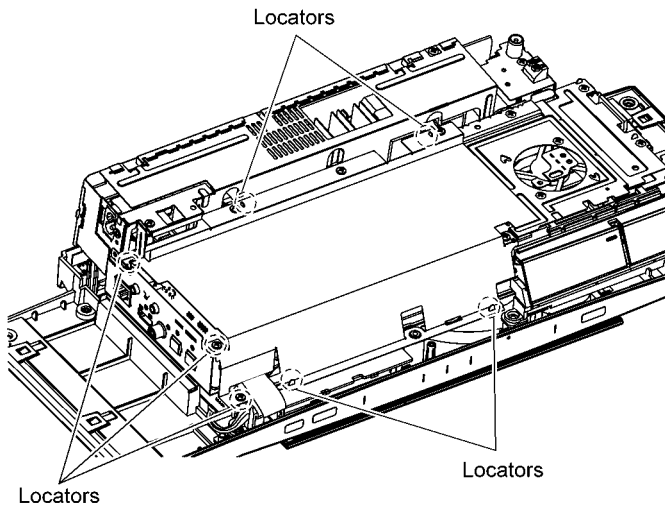
Caution: During assembling, ensure that rear shield is seated properly at the locators.

9.8.2. Assembly of Rear Shield

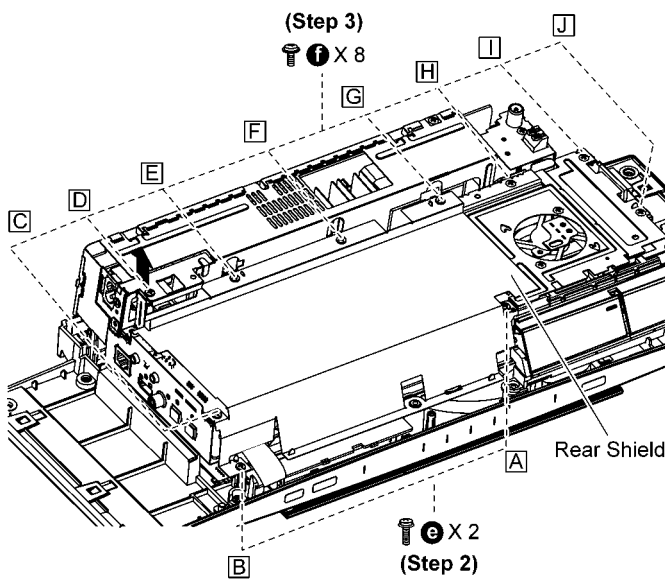
- Follow the (Step 1) to (Step 3) of Item 9.8.1



Step 1 Fix the rear shield as diagram shown.



Caution: During assembling, ensure that rear shield is seated properly at the locators.



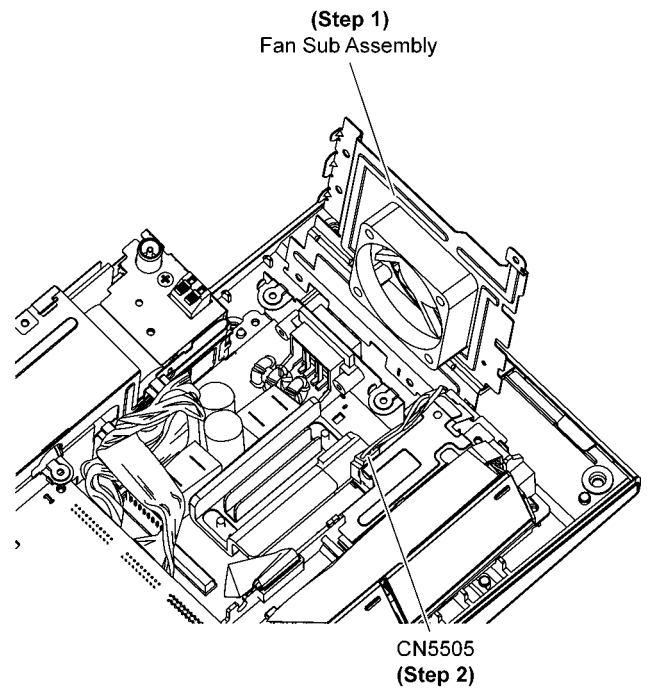
Step 2 Mount 2 screws onto rear shield.

Step 3 Mount 8 screws onto rear shield.

Caution: Please follow screwing sequence (A to J) to mount the screws onto front cabinet.

9.9. Disassembly of Fan Sub Assembly

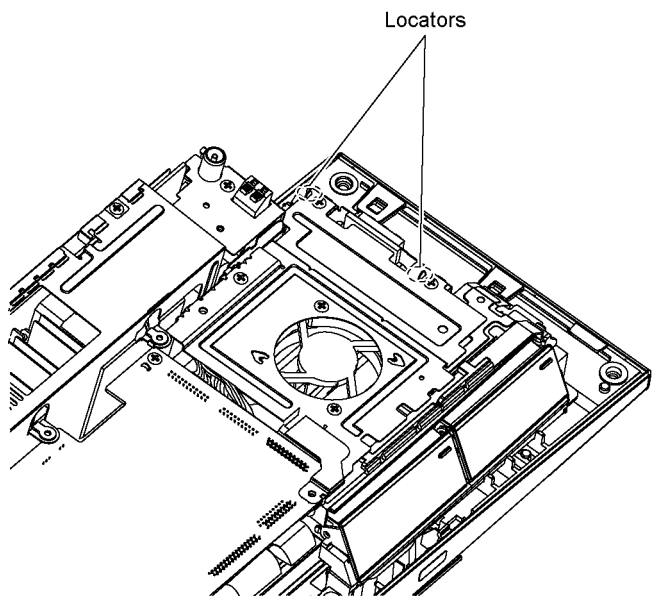
- Follow the (Step 1) to (Step 7) of Item 9.3.
- Follow the (Step 1) to (Step 8) of Item 9.4.
- Follow the (Step 1) to (Step 7) of Item 9.5.1.
- Follow the (Step 1) to (Step 3) of Item 9.8.1.



Step 1 Lift up Fan Sub Assembly.

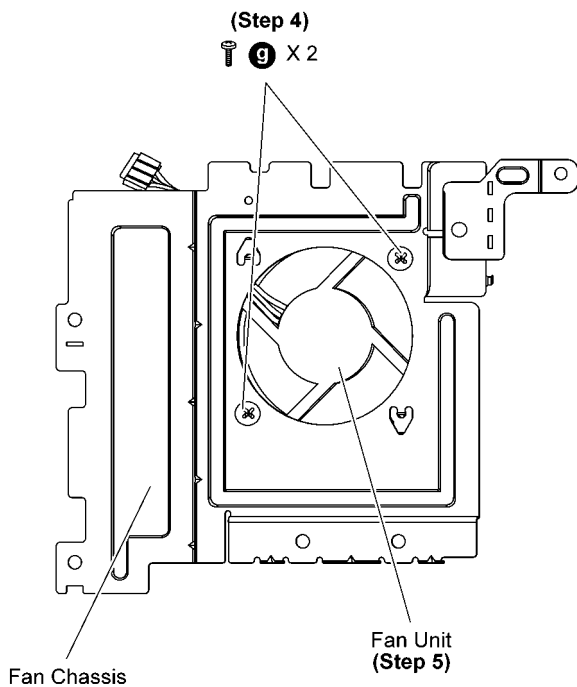
Step 2 Detach 3P cable at the connector (CN5505) on D-Amp P.C.B..

Step 3 Remove Fan Sub Assembly.



Caution: During assembling, ensure that Fan Sub Assembly is seated properly at the locators.

- Disassembly of Fan Unit

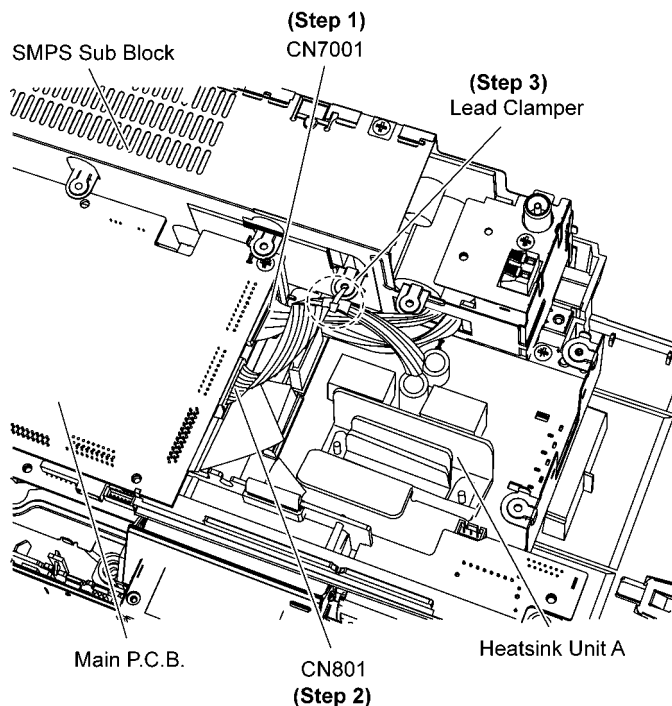


Step 4 Remove 2 screws.

Step 5 Remove Fan Unit.

9.10. Disassembly of SMPS Sub Block

- Follow the (Step 1) to (Step 6) of Item 9.3.
- Follow the (Step 1) to (Step 8) of Item 9.4.
- Follow the (Step 1) to (Step 7) of Item 9.5.1.
- Follow the (Step 1) to (Step 3) of Item 9.8.1.
- Follow the (Step 1) to (Step 3) of Item 9.9.



Step 1 Detach 11P wire at the connector (CN7001) on Main P.C.B..

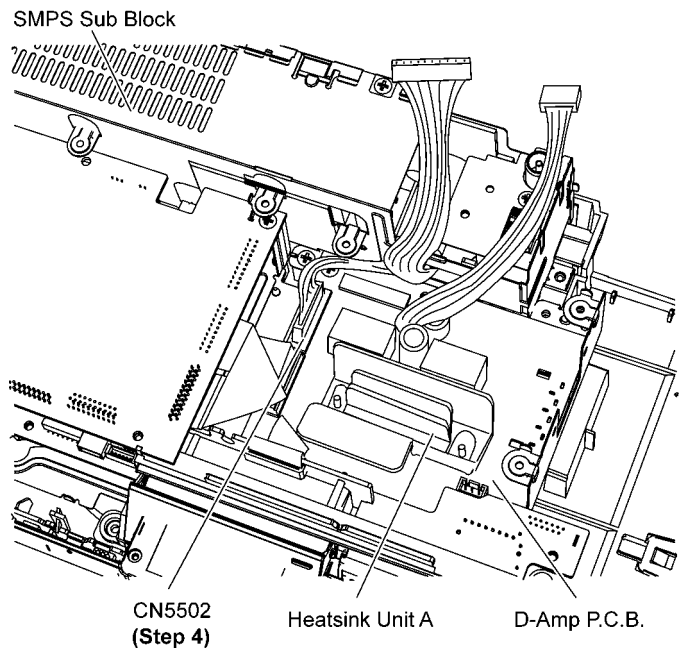
Caution: During assembling, press in 11P wire toward SMPS Sub Block to be away from heatsink unit A as diagram shown.

Step 2 Detach 10P wire at the connector (CN801) on Main

P.C.B..

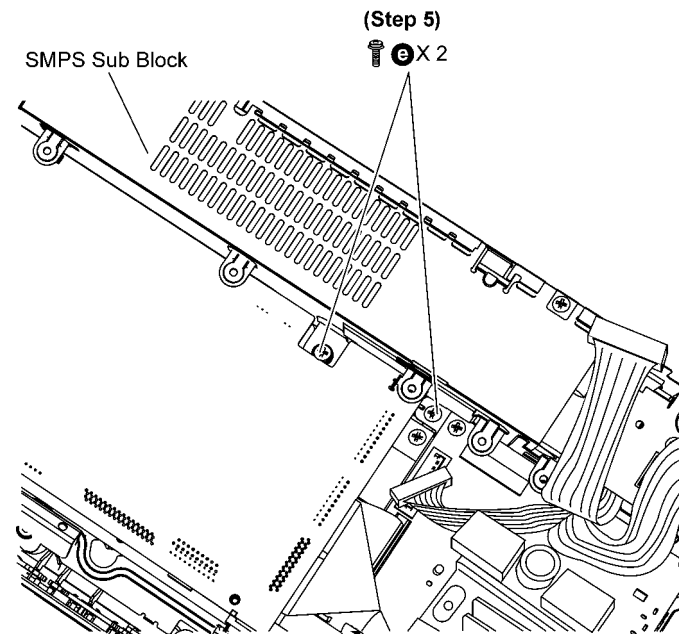
Step 3 Cut the lead clamper.

Caution: During assembling, press in 10P wire toward SMPS Sub Block to be away from heatsink unit A as diagram shown; Use a lead clamper tie it to SMPS Sub Block.

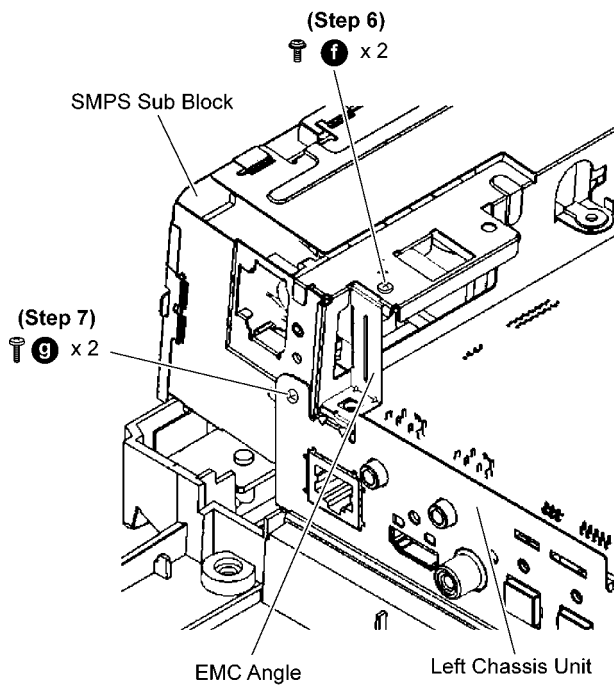


Step 4 Detach 8P wire at the connector (CN5502) on D-Amp P.C.B..

Caution: During assembling, press in 8P wire toward SMPS Sub Block to be away from heatsink unit A as diagram shown.



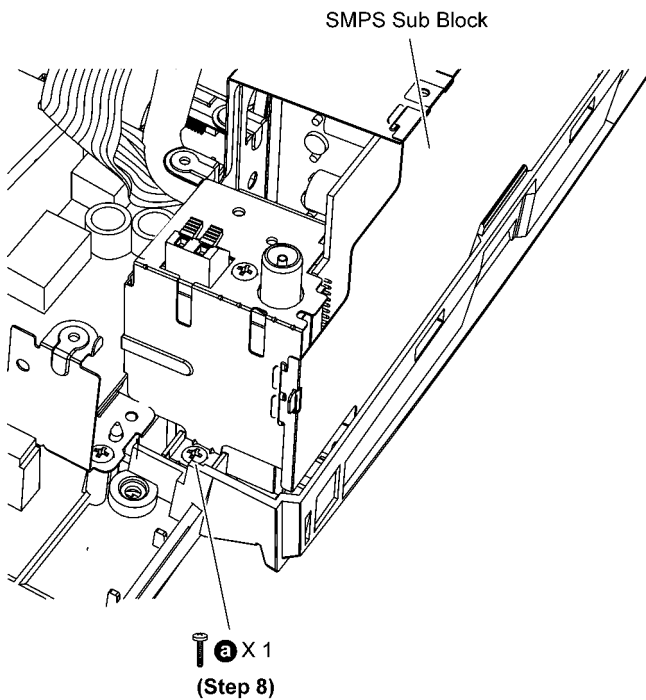
Step 5 Remove 2 screws at SMPS Sub Block.



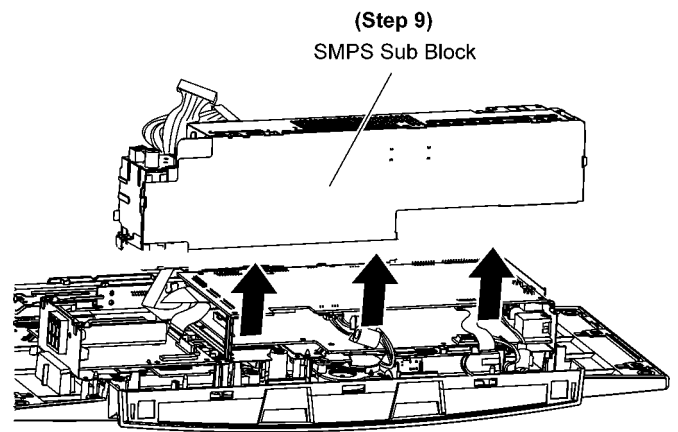
Step 6 Remove 1 screws at SMPS Sub Block.

Step 7 Remove 1 screws at Left Chassis Unit.

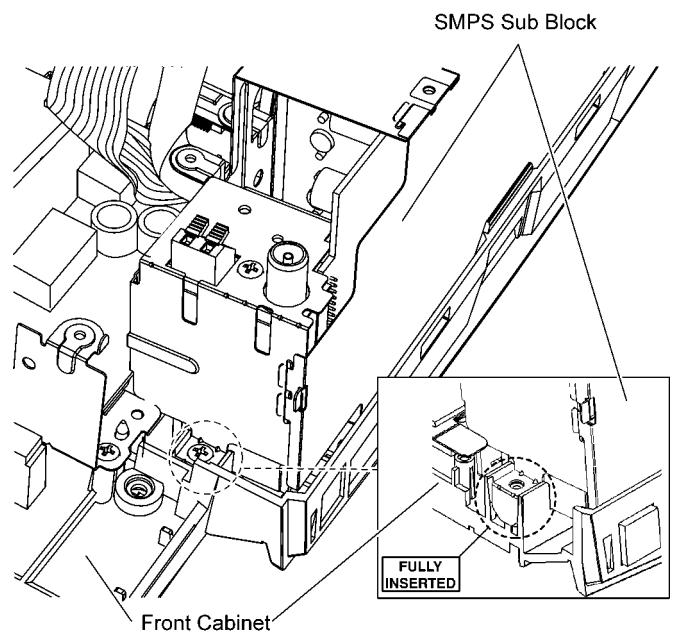
Caution: Keep the EMC Angle in safe place. Avoid denting it, place it back during assembling.



Step 8 Remove 1 screw at SMPS Sub Block.



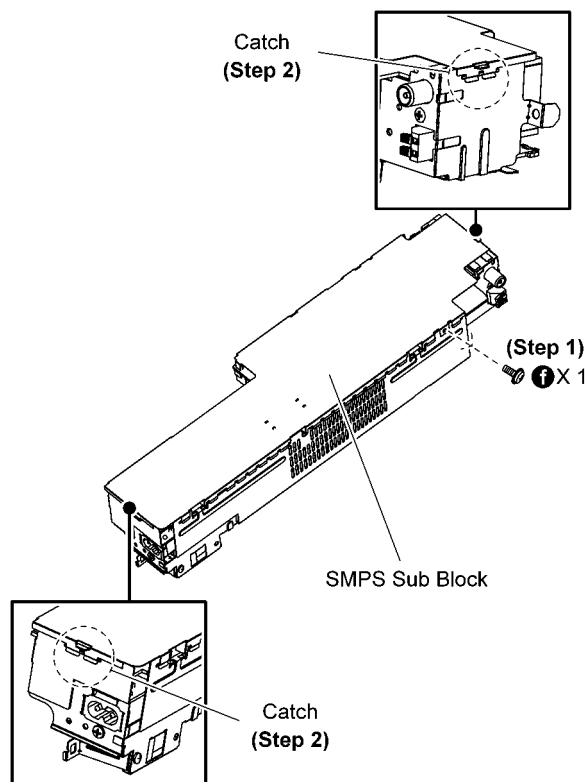
Step 9 Remove SMPS Sub Block.



Caution: During assembling, ensure that SMPS Sub Block is fully located and inserted onto front cabinet.

9.11. Disassembly of Tuner Pack

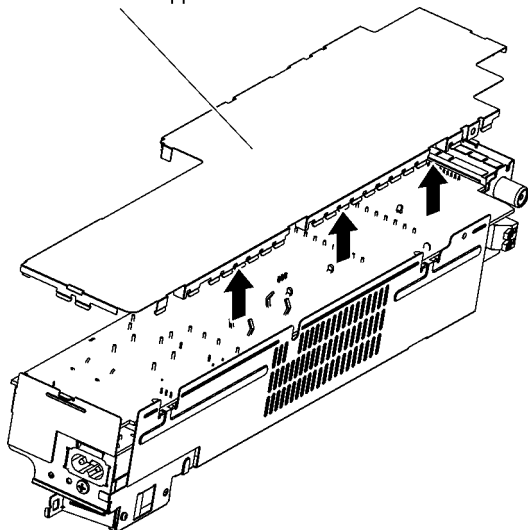
- Follow the (Step 1) to (Step 7) of Item 9.3.
- Follow the (Step 1) to (Step 8) of Item 9.4.
- Follow the (Step 1) to (Step 7) of Item 9.5.1.
- Follow the (Step 1) to (Step 3) of Item 9.8.1.
- Follow the (Step 1) to (Step 3) of Item 9.9.
- Follow the (Step 1) to (Step 9) of Item 9.10.



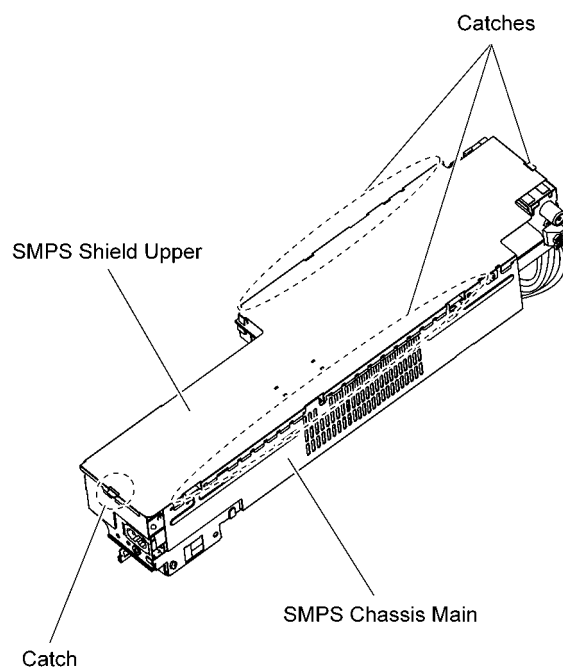
Step 1 Remove 1 screws.

Step 2 Release catches at both side of SMPS Sub Block.

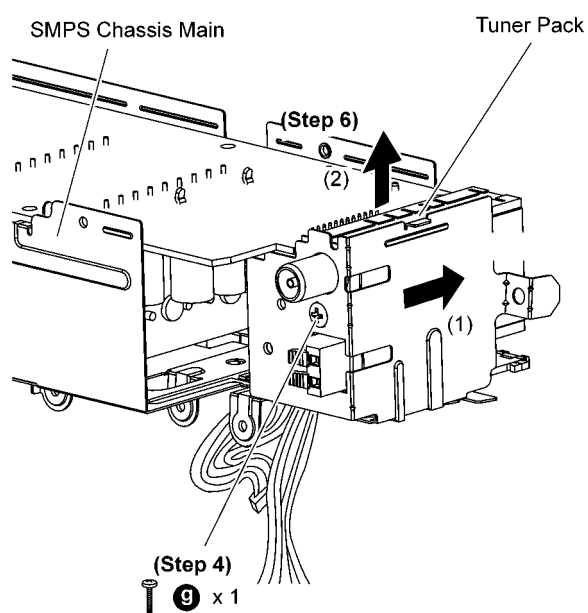
(Step 3)
SMPS Shield Upper



Step 3 Remove SMPS Shield Upper.



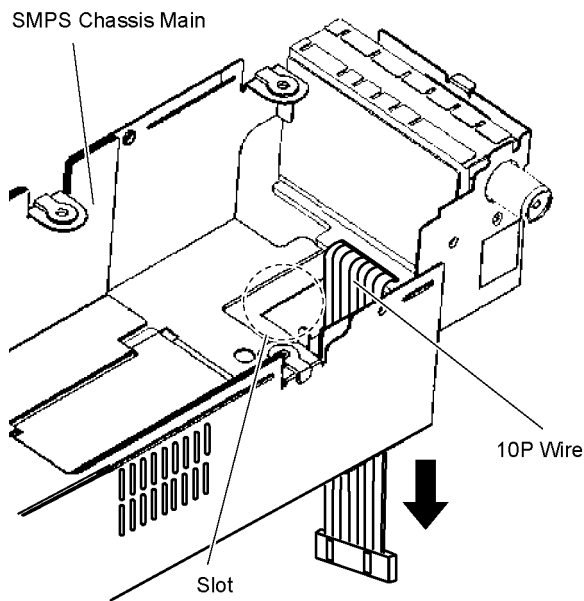
Caution: During assembling, ensure that SMPS Shield Upper is fully caught onto SMPS Chassis Main.



Step 4 Remove 1 screw.

Step 5 Detach Tuner Pack gently in the direction of arrow (1).

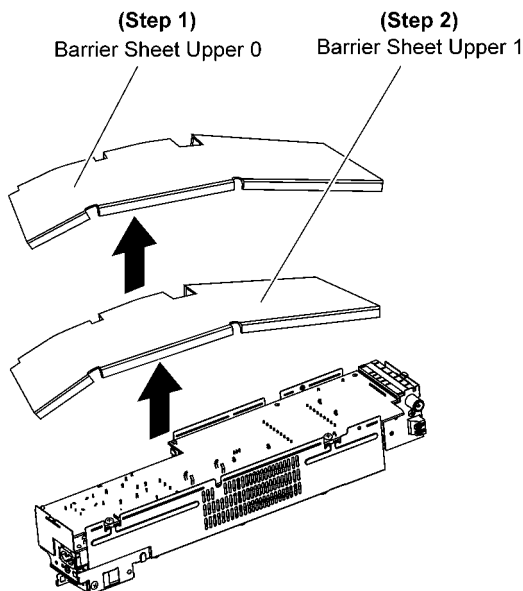
Step 6 Lift up Tuner Pack in the direction of arrow (2).



Caution: During assembling, ensure that 10P wire is dressed through the slot properly.

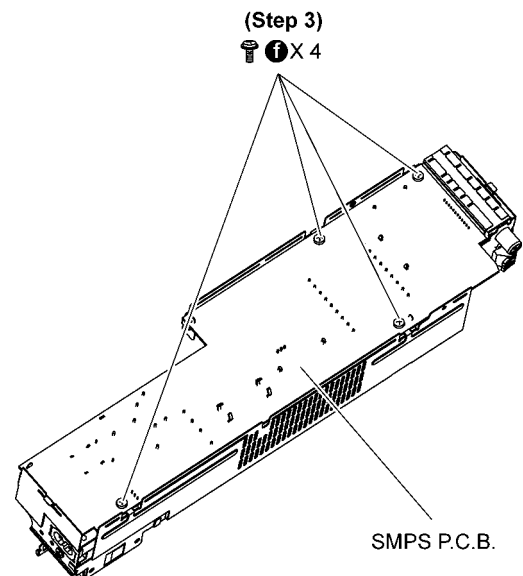
9.12. Disassembly of SMPS and AC Inlet P.C.B.

- Follow the (Step 1) to (Step 7) of Item 9.3.
- Follow the (Step 1) to (Step 8) of Item 9.4.
- Follow the (Step 1) to (Step 7) of Item 9.5.1.
- Follow the (Step 1) to (Step 3) of Item 9.8.1.
- Follow the (Step 1) to (Step 3) of Item 9.9.
- Follow the (Step 1) to (Step 9) of Item 9.10.
- Follow the (Step 1) to (Step 3) of Item 9.11.

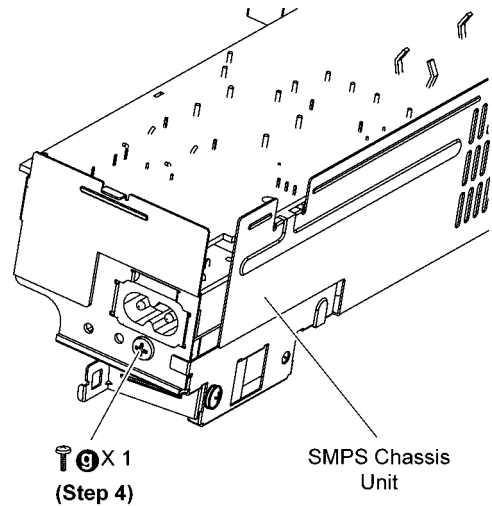


Step 1 Lift up Barrier Sheet Upper 0.

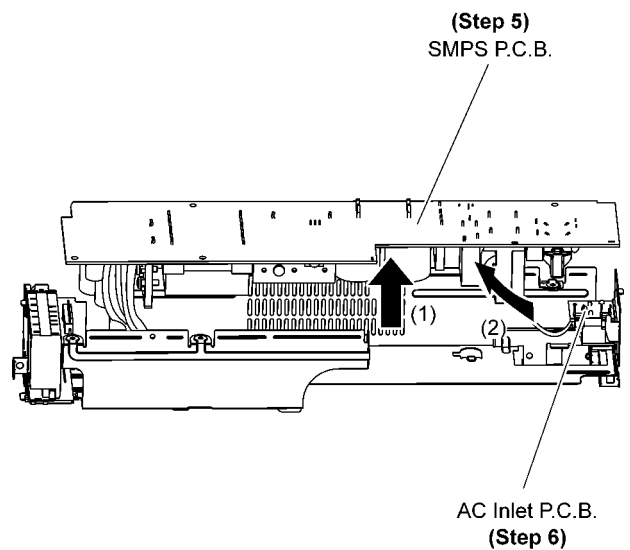
Step 2 Lift up Barrier Sheet Upper 1.



Step 3 Remove 4 screws on SMPS P.C.B..

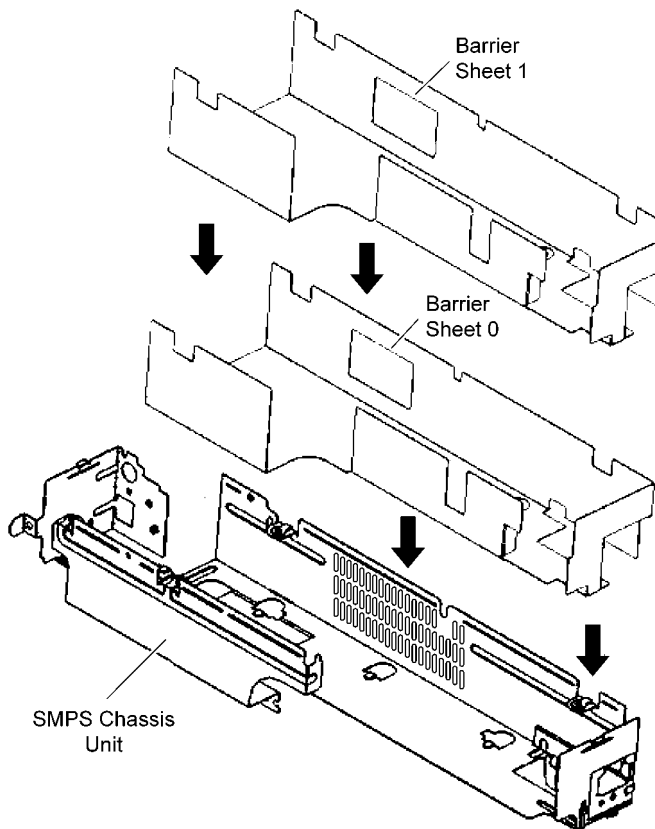


Step 4 Remove 1 screw.

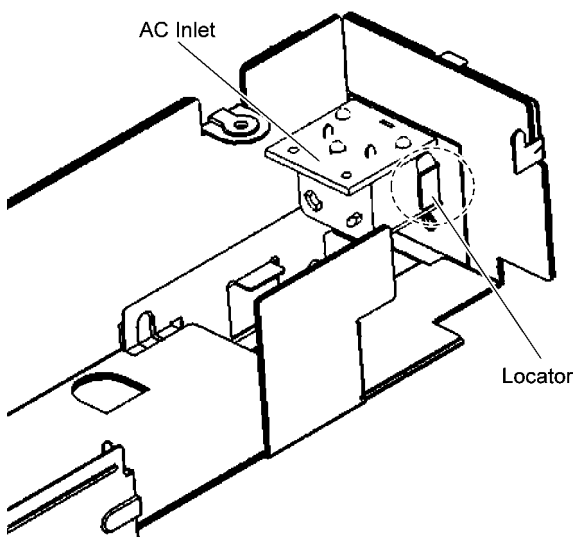


Step 5 Lift up SMPS P.C.B. in the direction of arrow (1).

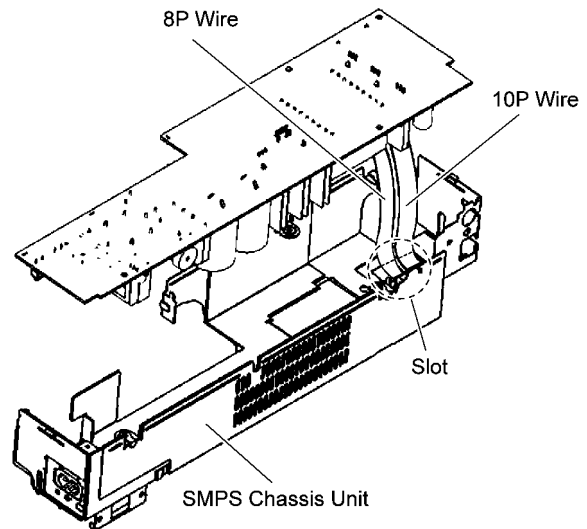
Step 6 Lift up AC Inlet P.C.B. in the direction of arrow (2).



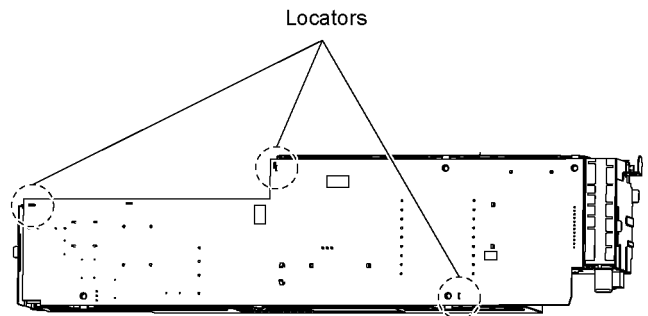
Caution: Before assembling of SMPS P.C.B., ensure that Barrier Sheet Upper 0/1 is properly inserted onto SMPS Chassis Unit.



Caution: During assembling, ensure that AC Inlet is seated properly at the locator.



Caution: During assembling, ensure that 11P & 8P wires are dressed through the SMPS Chassis Unit's slot properly.

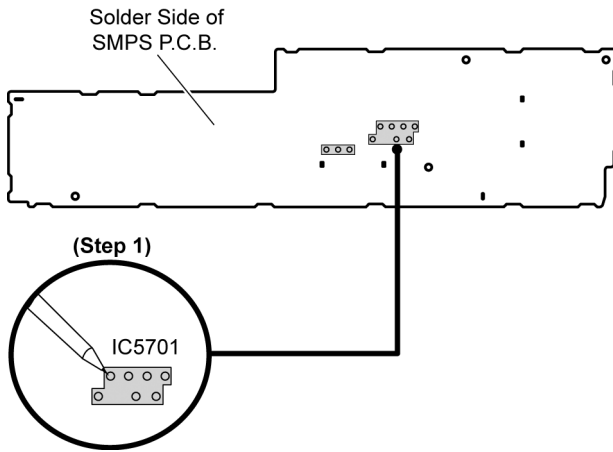


Caution: During assembling, ensure that SMPS P.C.B. is seated properly at the locators.

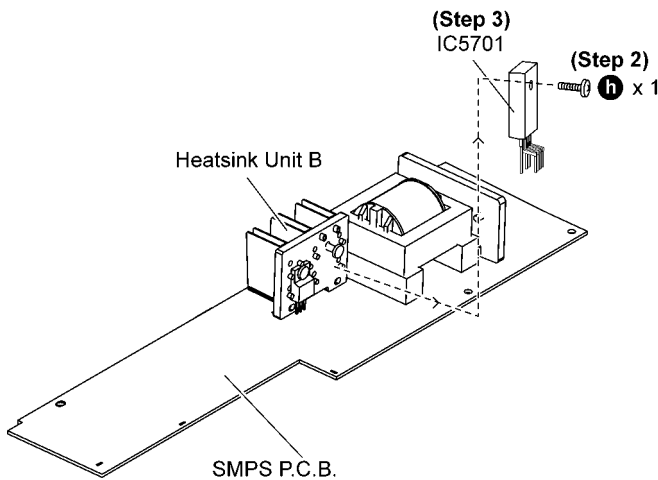
9.13. Replacement of Switching Regulator IC (IC5701)

9.13.1. Disassembly of Switching Regulator IC (IC5701)

- Follow the (Step 1) to (Step 7) of Item 9.3.
- Follow the (Step 1) to (Step 8) of Item 9.4.
- Follow the (Step 1) to (Step 7) of Item 9.5.1.
- Follow the (Step 1) to (Step 3) of Item 9.8.1.
- Follow the (Step 1) to (Step 3) of Item 9.9.
- Follow the (Step 1) to (Step 9) of Item 9.10.
- Follow the (Step 1) to (Step 3) of Item 9.11.
- Follow the (Step 1) to (Step 6) of Item 9.12.



Step 1 Desolder pins of the switching regulator IC (IC5701) on the solder side of SMPS P.C.B.



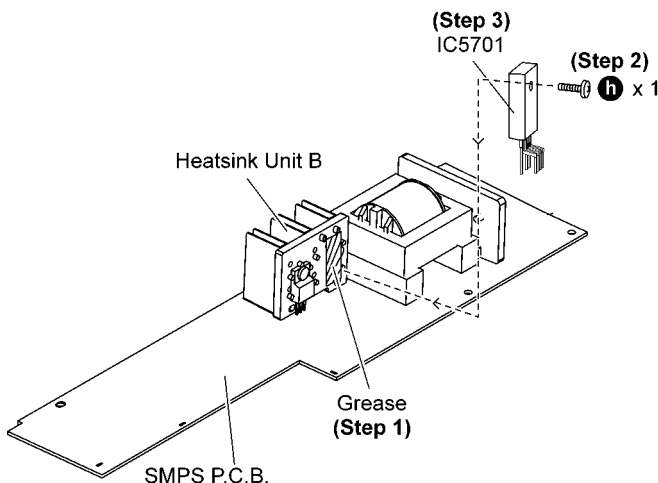
Step 2 Remove 1 screw from the switching regulator IC (IC5701).

Step 3 Remove the switching regulator IC (IC5701).

Caution: Handle the SMPS P.C.B with care due to its high temperature after prolonged use. Touching it may lead to injuries.

Note: Refer to the diagrams of SMPS P.C.B. (Item 17.7.) for location of the part.

9.13.2. Assembly of Switching Regulator IC (IC5701)

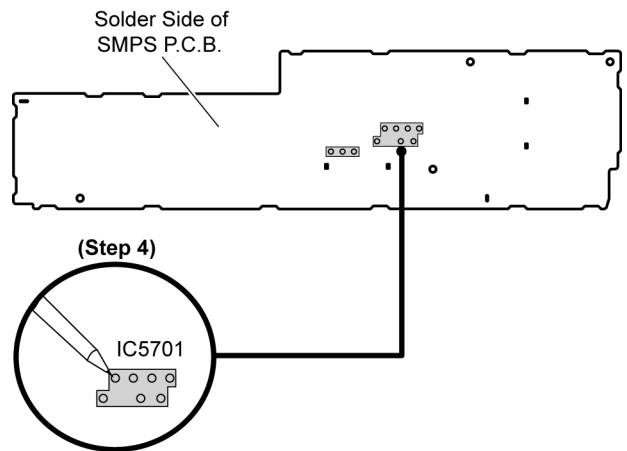


Step 1 Apply grease to the heatsink unit B.

Step 2 Mount the switching regulator IC (IC5701) on to SMPS P.C.B.

Step 3 Fix and screw the switching regulator IC (IC5701) to the heatsink unit B.

Caution: Ensure the switching regulator IC (IC5701) is tightly screwed to the heatsink unit B.



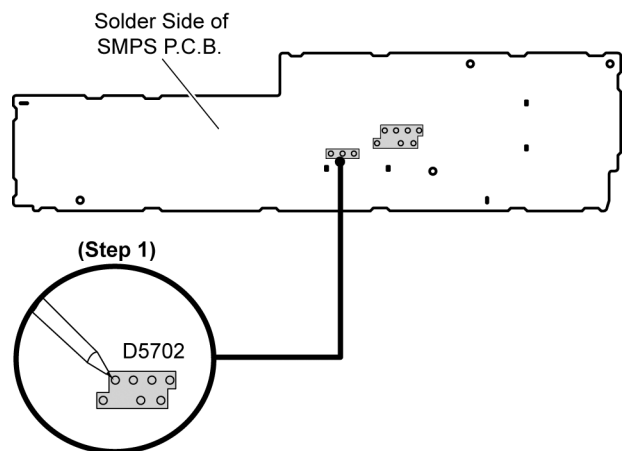
Step 4 Solder pins of the switching regulator IC (IC5701) on the solder side of SMPS P.C.B.

Caution: Ensure pins of the switching regulator IC (IC5701) are properly seated and soldered on SMPS P.C.B.

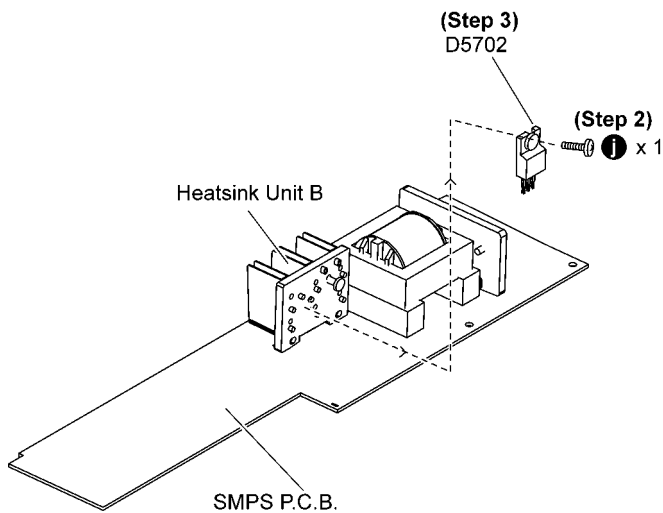
9.14. Replacement of Rectifier Diode (D5702)

9.14.1. Disassembly of Rectifier Diode (D5702)

- Follow the (Step 1) to (Step 7) of Item 9.3.
- Follow the (Step 1) to (Step 8) of Item 9.4.
- Follow the (Step 1) to (Step 7) of Item 9.5.1.
- Follow the (Step 1) to (Step 3) of Item 9.8.1.
- Follow the (Step 1) to (Step 3) of Item 9.9.
- Follow the (Step 1) to (Step 9) of Item 9.10.
- Follow the (Step 1) to (Step 3) of Item 9.11.
- Follow the (Step 1) to (Step 6) of Item 9.12.



Step 1 Desolder pins of the rectifier diode (D5702) on the solder side of SMPS P.C.B.



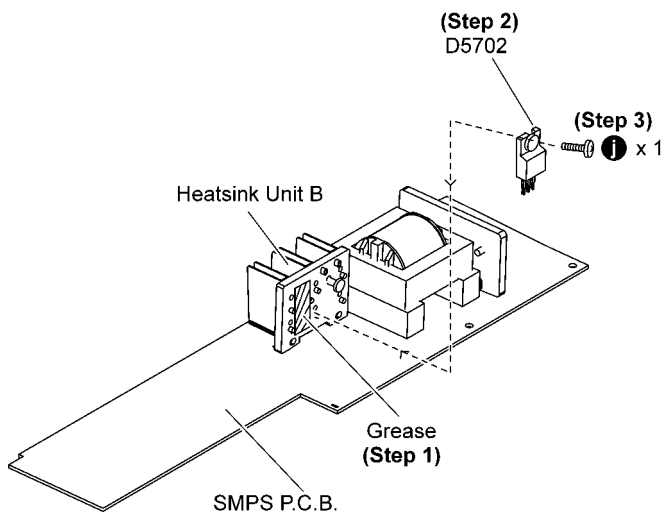
Step 2 Remove 1 screw from the rectifier diode. (D5702).

Step 3 Remove the rectifier diode (D5702).

Caution: Handle the SMPS P.C.B with care due to its high temperature after prolonged use. Touching it may lead to injuries.

Note: Refer to the diagrams of SMPS P.C.B. (Item 17.7) for location of the electrical components.

9.14.2. Assembly of Rectifier Diode (D5702)



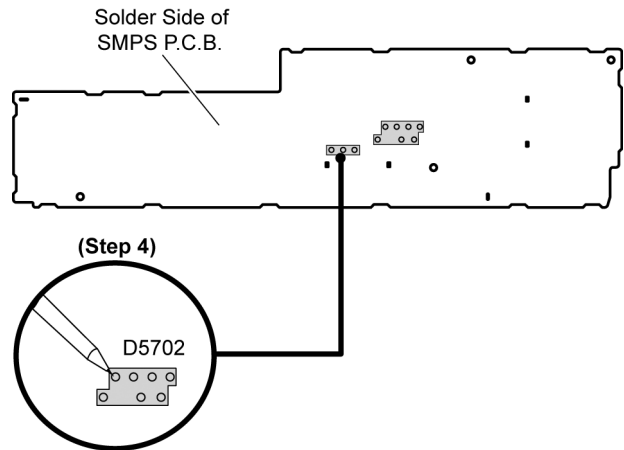
Step 1 Apply grease to the heatsink unit B.

Step 2 Mount the Rectifier Diode (D5702) to SMPS P.C.B..

Caution: Ensure pins of the rectifier diode (D5702) are properly seated and soldered on SMPS P.C.B.

Step 2 Fix and screw the Rectifier Diode (D5702) to heatsink unit B.

Caution: Ensure the rectifier diode (D5702) is tightly screwed to the heatsink unit B.

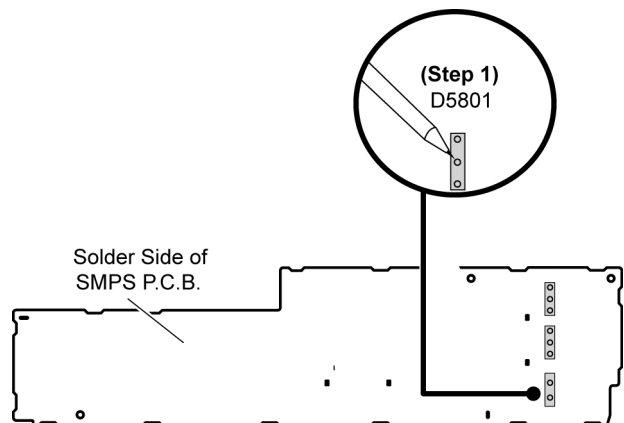


Step 4 Solder pins of the rectifier diode (D5702) on the solder side of SMPS P.C.B.

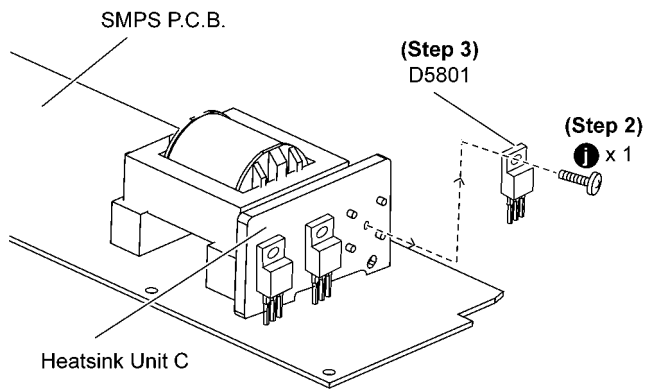
9.15. Replacement of Regulator Diode (D5801)

9.15.1. Disassembly of Regulator Diode (D5801)

- Follow the (Step 1) to (Step 7) of Item 9.3.
- Follow the (Step 1) to (Step 8) of Item 9.4.
- Follow the (Step 1) to (Step 7) of Item 9.5.1.
- Follow the (Step 1) to (Step 3) of Item 9.8.1.
- Follow the (Step 1) to (Step 3) of Item 9.9.
- Follow the (Step 1) to (Step 9) of Item 9.10.
- Follow the (Step 1) to (Step 3) of Item 9.11.
- Follow the (Step 1) to (Step 6) of Item 9.12.



Step 1 Desolder pins of the regulator diode (D5801) on the solder side of SMPS P.C.B.



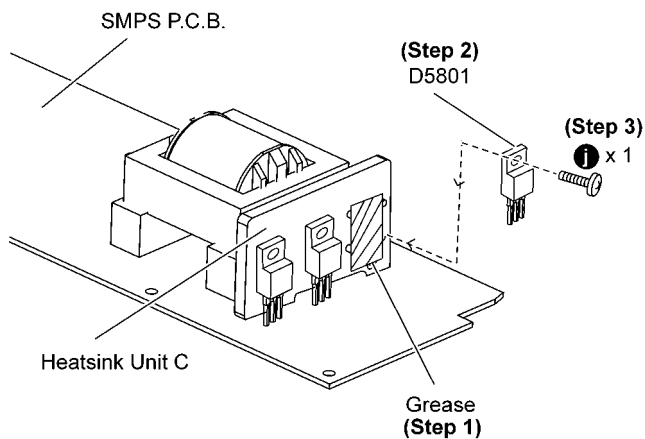
Step 2 Remove 1 screw from the regulator diode (D5801).

Step 3 Remove the regulator diode (D5801) from the SMPS P.C.B.

Caution: Handle the SMPS P.C.B with care due to its high temperature after prolonged use. Touching it may lead to injuries.

Note: Refer to the diagrams of SMPS P.C.B. (Item 17.7) for location of the electrical components.

9.15.2. Assembly of Regulator Diode (D5801)

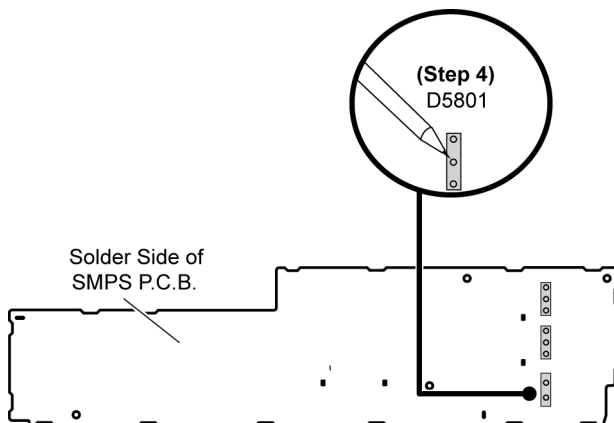


Step 1 Apply grease to the heatsink unit C.

Step 2 Mount the regulator diode (D5801) on to SMPS P.C.B.

Step 3 Fix and screw the regulator diode (D5801) to the heat-sink unit C.

Caution: Ensure the regulator diode (D5801) is tightly screwed to the heatsink unit C.



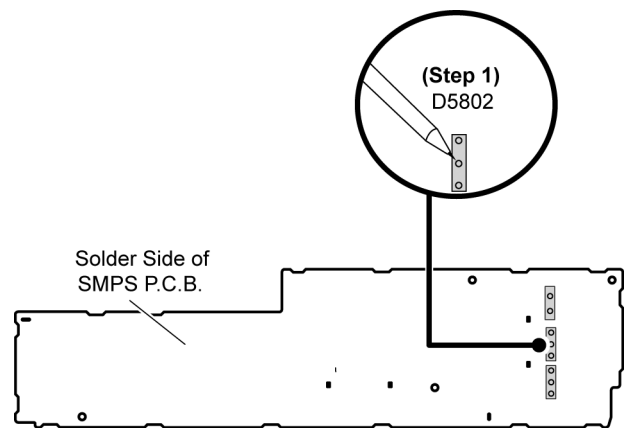
Step 4 Solder pins of the regulator diode (D5801) on the solder side of SMPS P.C.B.

Caution: Ensure pins of the regulator diode (D5801) are properly seated and soldered on SMPS P.C.B.

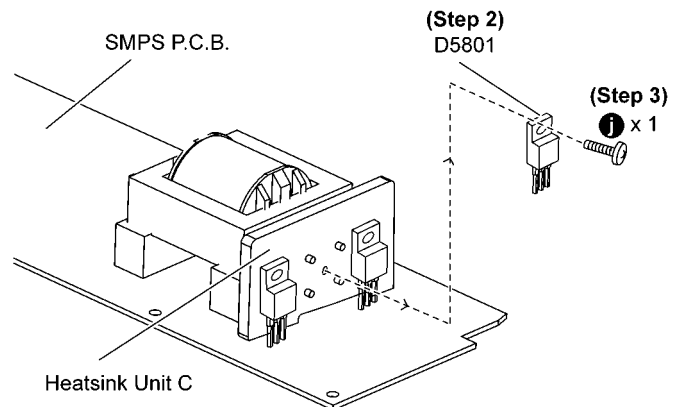
9.16. Replacement of Regulator Diode (D5802)

9.16.1. Disassembly of Regulator Diode (D5802)

- Follow the (Step 1) to (Step 7) of Item 9.3.
- Follow the (Step 1) to (Step 8) of Item 9.4.
- Follow the (Step 1) to (Step 7) of Item 9.5.1.
- Follow the (Step 1) to (Step 3) of Item 9.8.1.
- Follow the (Step 1) to (Step 3) of Item 9.9.
- Follow the (Step 1) to (Step 9) of Item 9.10.
- Follow the (Step 1) to (Step 3) of Item 9.11.
- Follow the (Step 1) to (Step 6) of Item 9.12.



Step 1 Desolder pins of the regulator diode (D5802) on the solder side of SMPS P.C.B.



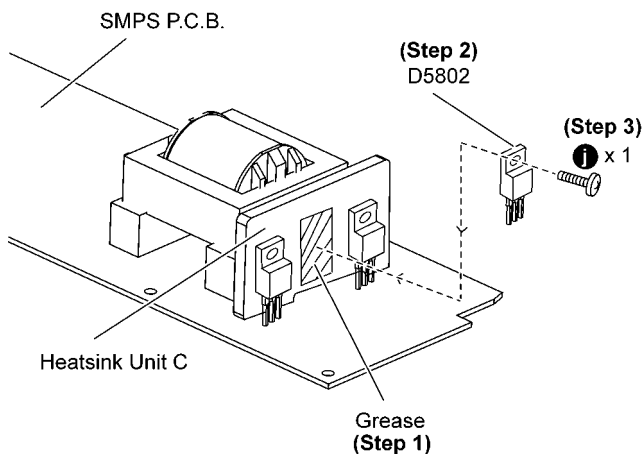
Step 2 Remove 1 screw from the regulator diode (D5802).

Step 3 Remove the regulator diode (D5802) from the SMPS P.C.B.

Caution: Handle the SMPS P.C.B with care due to its high temperature after prolonged use. Touching it may lead to injuries.

Note: Refer to the diagrams of SMPS P.C.B. (Item 17.7) for location of the electrical components.

9.16.2. Assembly of Regulator Diode (D5802)

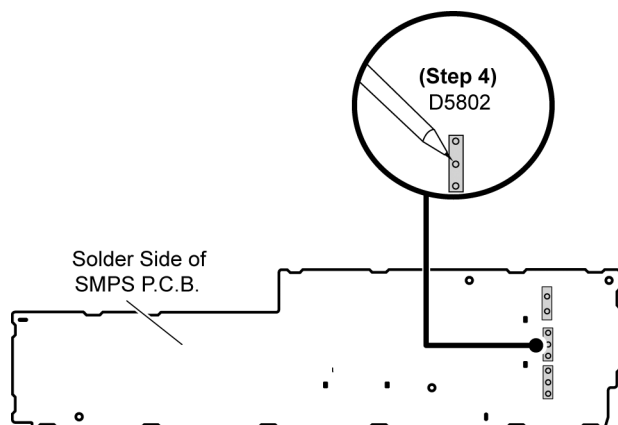


Step 1 Apply grease to the heatsink unit C.

Step 2 Mount the regulator diode (D5802) on to SMPS P.C.B.

Step 3 Fix and screw the regulator diode (D5802) to the heat-sink unit C.

Caution: Ensure the regulator diode (D5802) is tightly screwed to the heatsink unit C.



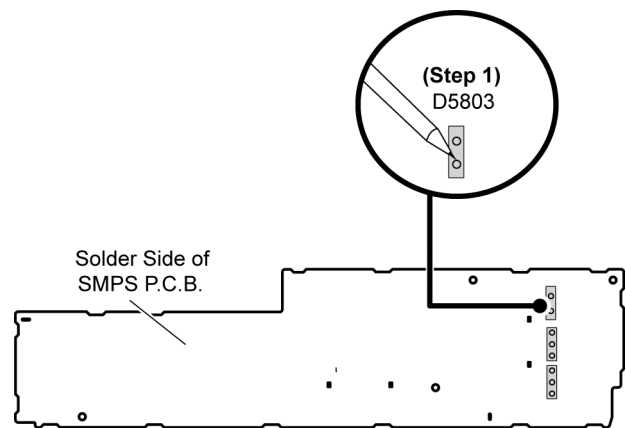
Step 4 Solder pins of the regulator diode (D5802) on the solder side of SMPS P.C.B.

Caution: Ensure pins of the regulator diode (D5802) are properly seated and soldered on SMPS P.C.B.

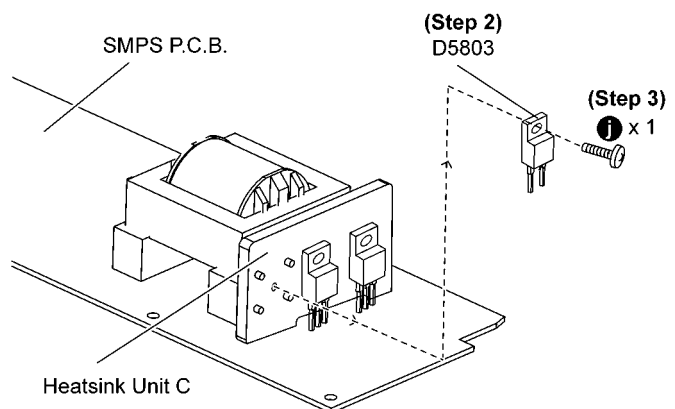
9.17. Replacement of Regulator Diode (D5803)

9.17.1. Disassembly of Regulator Diode (D5803)

- Follow the (Step 1) to (Step 7) of Item 9.3.
- Follow the (Step 1) to (Step 8) of Item 9.4.
- Follow the (Step 1) to (Step 7) of Item 9.5.1.
- Follow the (Step 1) to (Step 3) of Item 9.8.1.
- Follow the (Step 1) to (Step 3) of Item 9.9.
- Follow the (Step 1) to (Step 9) of Item 9.10.
- Follow the (Step 1) to (Step 3) of Item 9.11.
- Follow the (Step 1) to (Step 6) of Item 9.12.



Step 1 Desolder pins of the regulator diode (D5803) on the solder side of SMPS P.C.B.



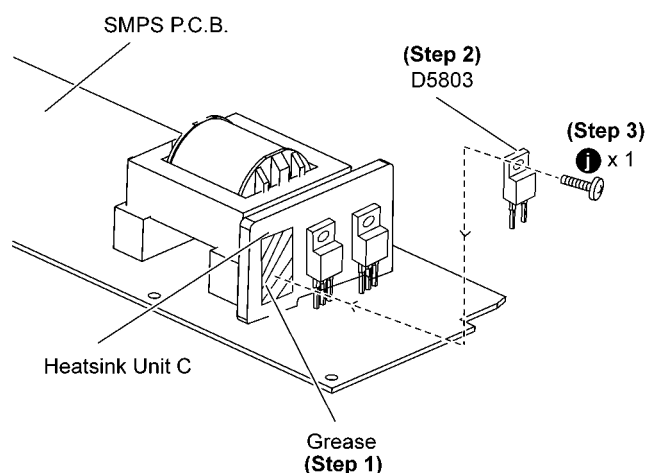
Step 2 Remove 1 screw from the regulator diode (D5803).

Step 3 Remove the regulator diode (D5803) from the SMPS P.C.B.

Caution: Handle the SMPS P.C.B with care due to its high temperature after prolonged use. Touching it may lead to injuries.

Note: Refer to the diagrams of SMPS P.C.B. (Item 17.7) for location of the electrical components.

9.17.2. Assembly of Regulator Diode (D5803)

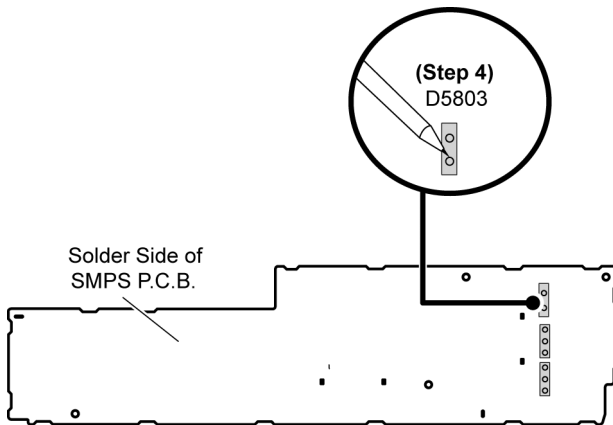


Step 1 Apply grease to the heatsink unit C.

Step 2 Mount the regulator diode (D5803) on to SMPS P.C.B.

Step 3 Fix and screw the regulator diode (D5803) to the heat-sink unit C.

Caution: Ensure the regulator diode (D5803) is tightly screwed to the heatsink unit C.

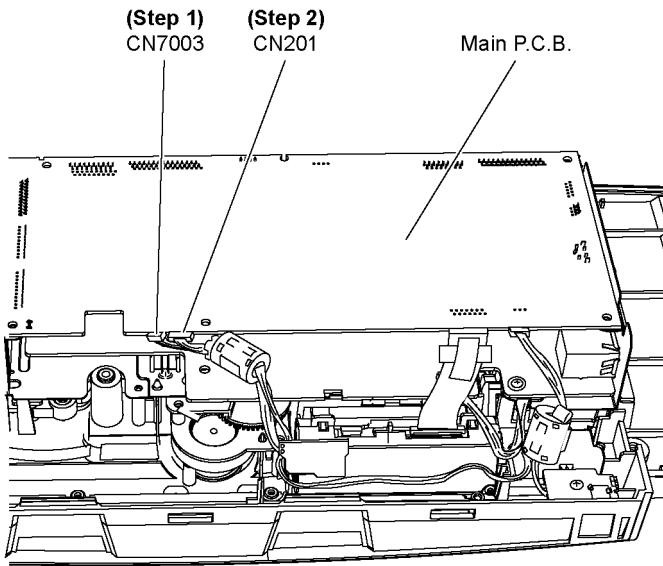


Step 4 Solder pins of the regulator diode (D5803) on the solder side of SMPS P.C.B.

Caution: Ensure pins of the regulator diode (D5803) are properly seated and soldered on SMPS P.C.B.

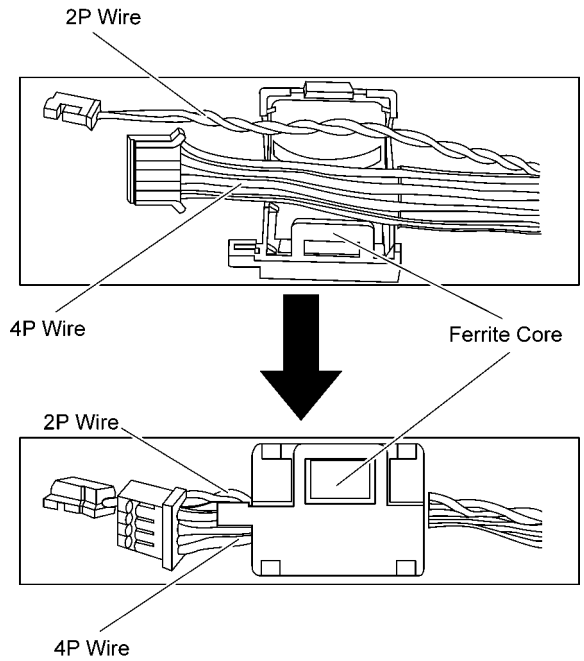
9.18. Disassembly of Main P.C.B.

- Follow the (Step 1) to (Step 7) of Item 9.3.
- Follow the (Step 1) to (Step 8) of Item 9.4.
- Follow the (Step 1) to (Step 7) of Item 9.5.1.
- Follow the (Step 1) to (Step 3) of Item 9.8.1.
- Follow the (Step 1) to (Step 5) of Item 9.9.
- Follow the (Step 1) to (Step 9) of Item 9.10.

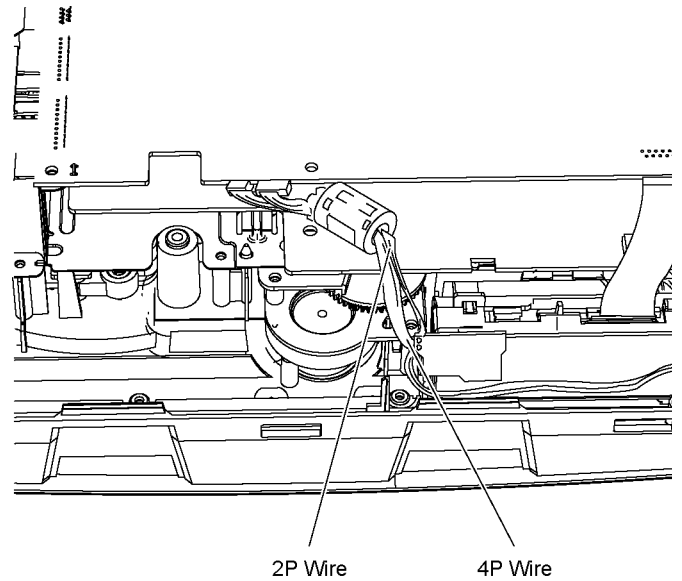


Step 1 Detach 2P wire at the connector (CN7003) on Main P.C.B..

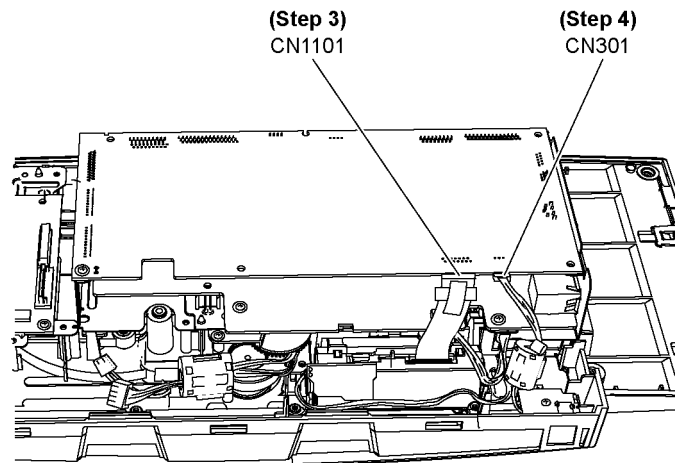
Step 2 Detach 4P wire at the connector (CN201) on Main P.C.B..



Caution: During assembling, ensure that the 2P & 4P wires are dressed into ferrite core properly. Close and lock ferrite core properly.

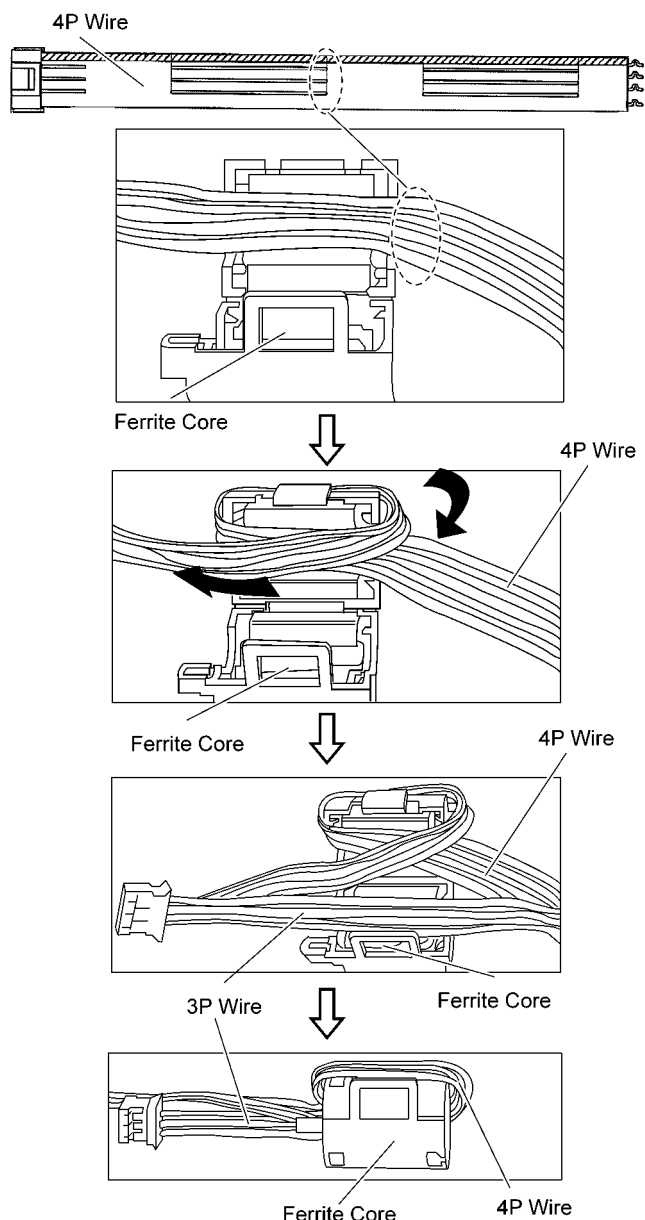


Caution: During assembling, ensure that 2P wire and 4P wire with ferrite core is in an inward direction.

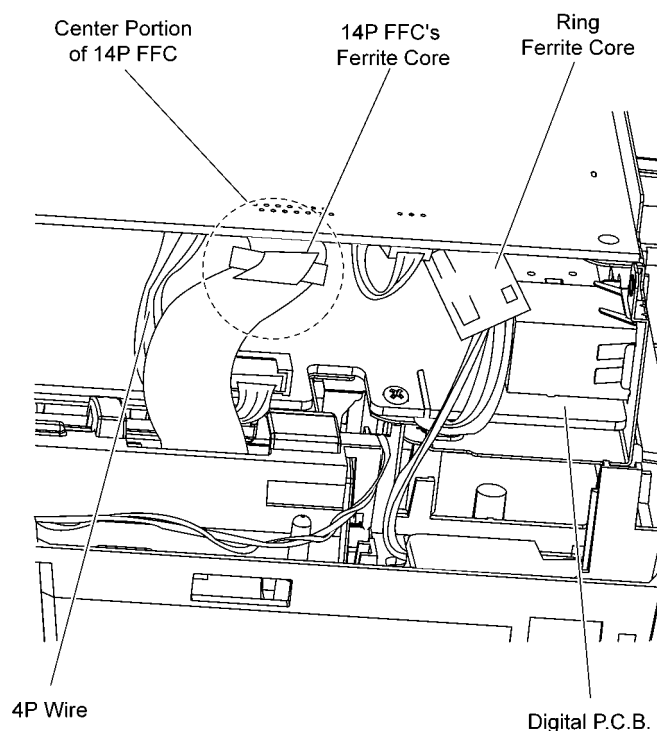


Step 3 Detach 14P FFC at the connector (CN1101) on Main P.C.B..

Step 4 Detach 3P FFC at the connector (CN301) on Main P.C.B..



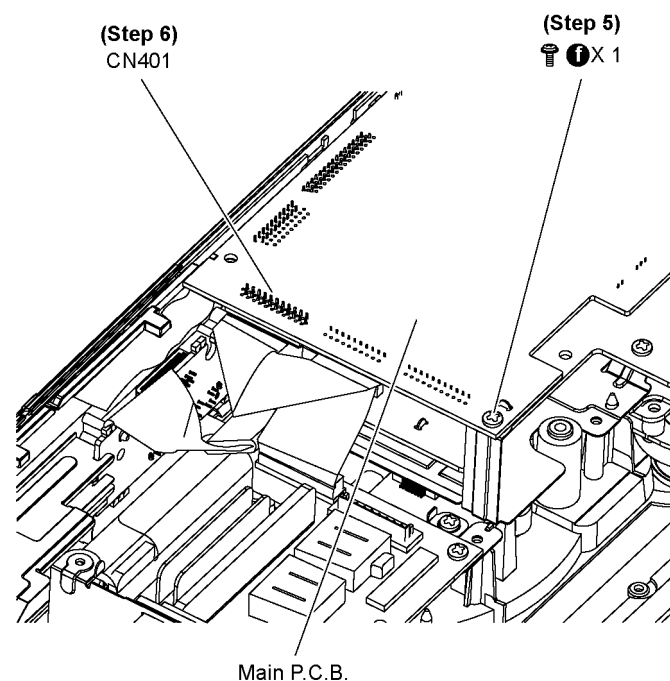
Caution 1: During assembling, ensure that the 4P & 3P wires are dressed into ferrite core properly. Close and lock ferrite core properly.



Caution 2: During assembling, ensure that 4P wire is dressed flatly under 14P FFC.

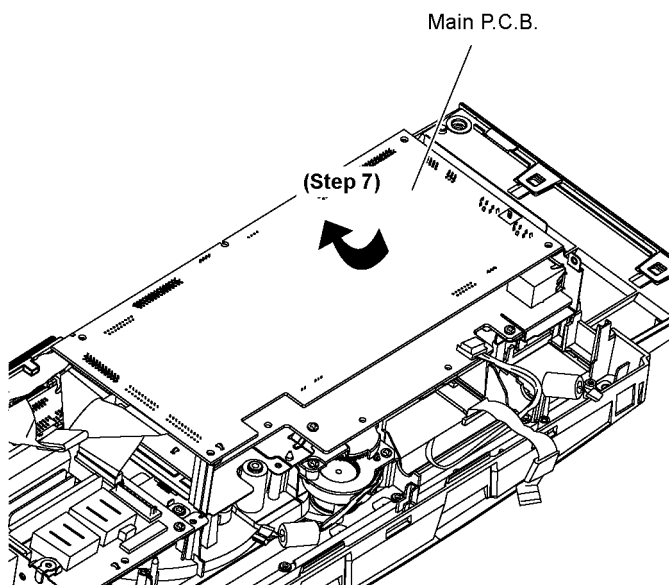
Caution 3: During assembling, ensure that ring ferrite core is away from 14P FFC's ferrite core.

Caution 4: During assembling, press center portion of 14P FFC in an inward direction as diagram shown.

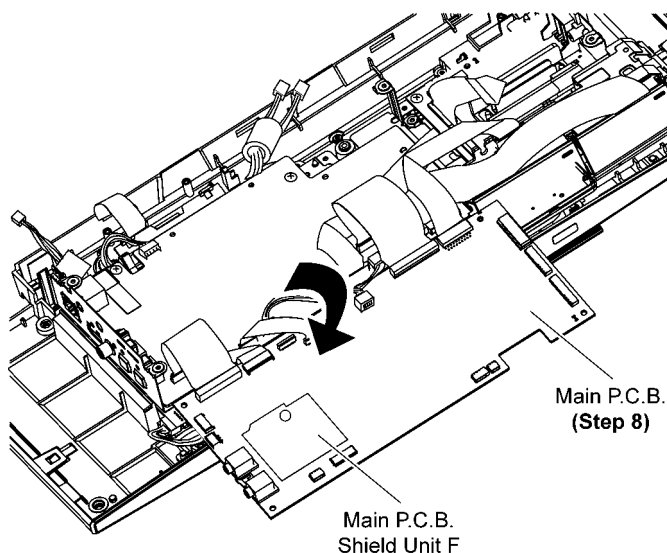


Step 5 Remove 1 screw on Main P.C.B..

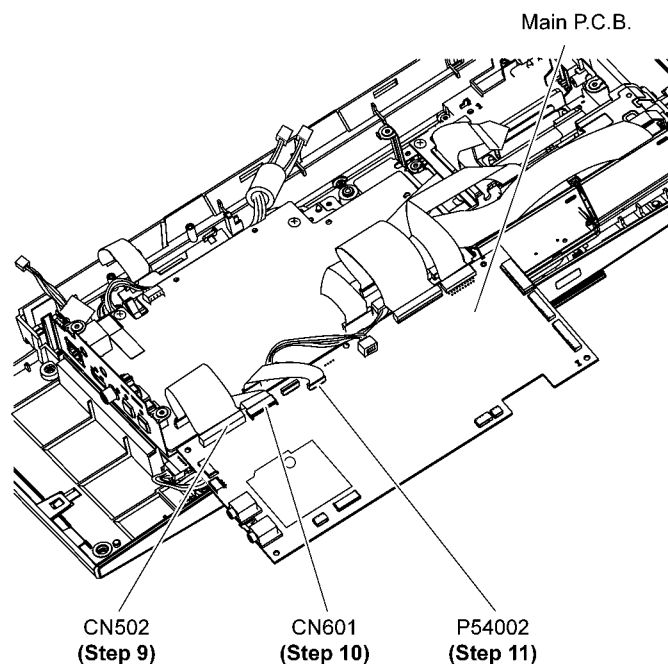
Step 6 Detach 22P FFC at the connector (CN401) on Main P.C.B..



Step 7 Slightly lift up Main P.C.B. in the direction of arrow shown.



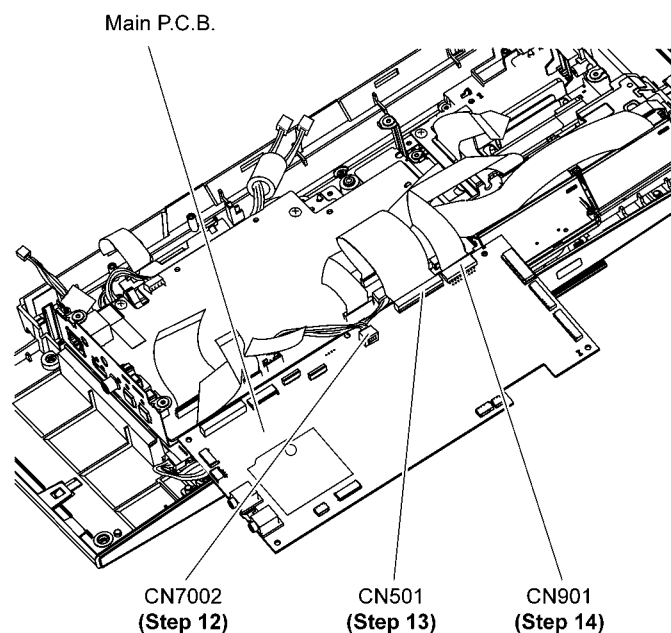
Step 8 Flip the Main P.C.B. in the direction of arrow shown.
Caution: During replacement of Main P.C.B. Shield Unit F, ensure that it is fully pasted to the Main P.C.B.



Step 9 Detach 28P FFC at the connector (CN502) on Main P.C.B..

Step 10 Detach 17P FFC at the connector (CN601) on Main P.C.B..

Step 11 Detach 20P FFC at the connector (P54002) on Main P.C.B..



Step 12 Detach 4P wire at the connector (CN7002) on Main P.C.B..

Step 13 Detach 30P FFC at the connector (CN501) on Main P.C.B..

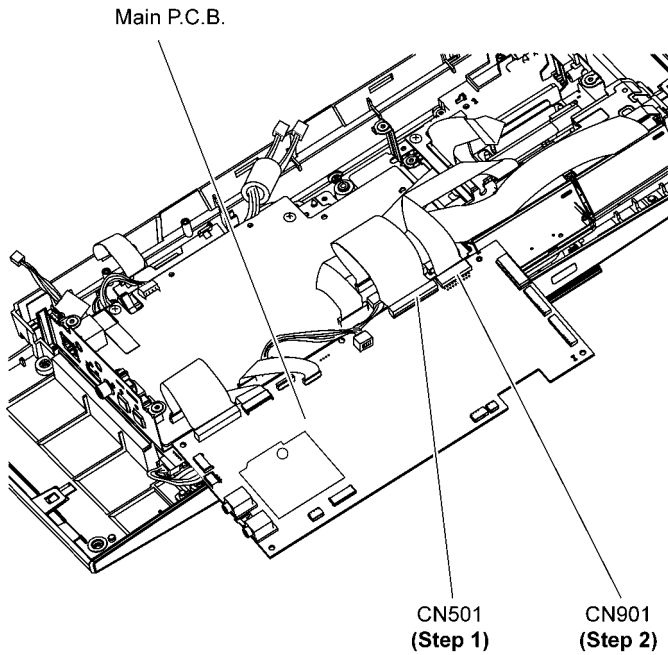
Step 14 Detach 19P FFC at the connector (CN901) on Main P.C.B..

Step 15 Remove the Main P.C.B..

9.19. Disassembly of SD USB Wireless Assembly

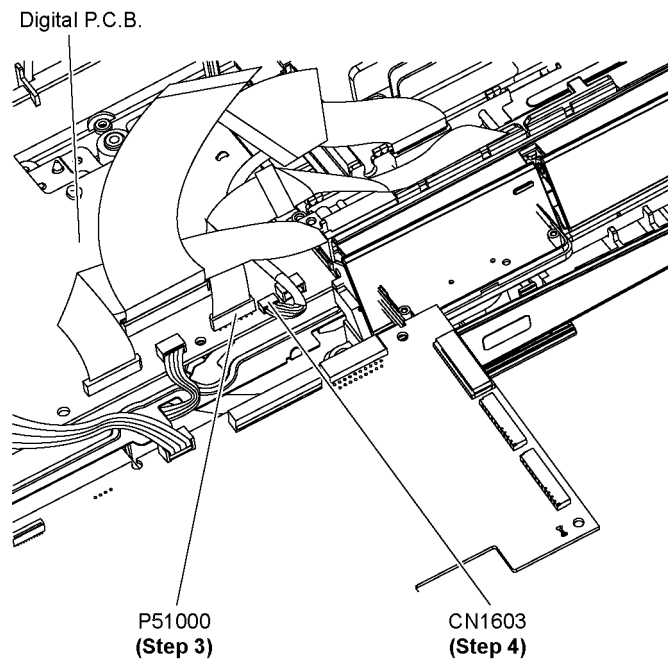
- Follow the (Step 1) to (Step 7) of Item 9.3.
- Follow the (Step 1) to (Step 8) of Item 9.4.

- Follow the (Step 1) to (Step 7) of Item 9.5.1.
- Follow the (Step 1) to (Step 3) of Item 9.8.1.
- Follow the (Step 1) to (Step 3) of Item 9.9.
- Follow the (Step 1) to (Step 9) of Item 9.10.
- Follow the (Step 1) to (Step 8) of Item 9.18.



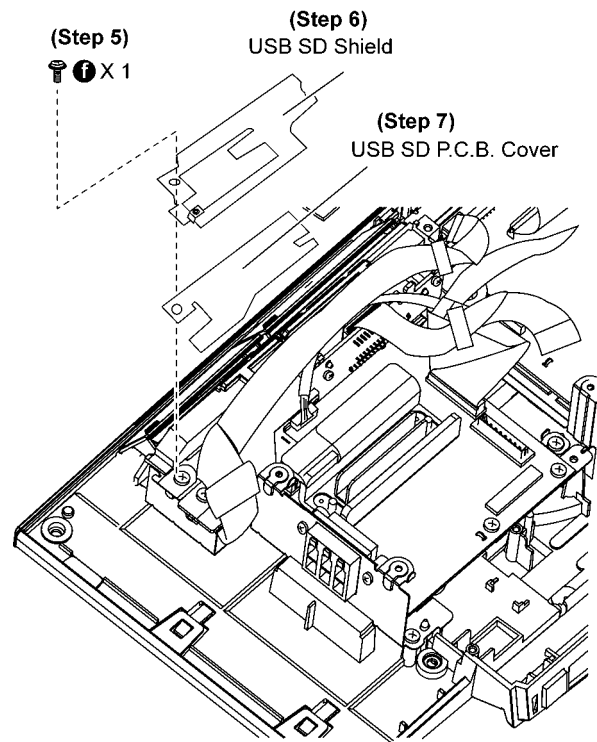
Step 1 Detach 30P FFC at the connector (CN501) on Main P.C.B..

Step 2 Detach 19P FFC at the connector (CN901) on Main P.C.B..



Step 3 Detach 13P FFC at the connector (P51000) on Digital P.C.B..

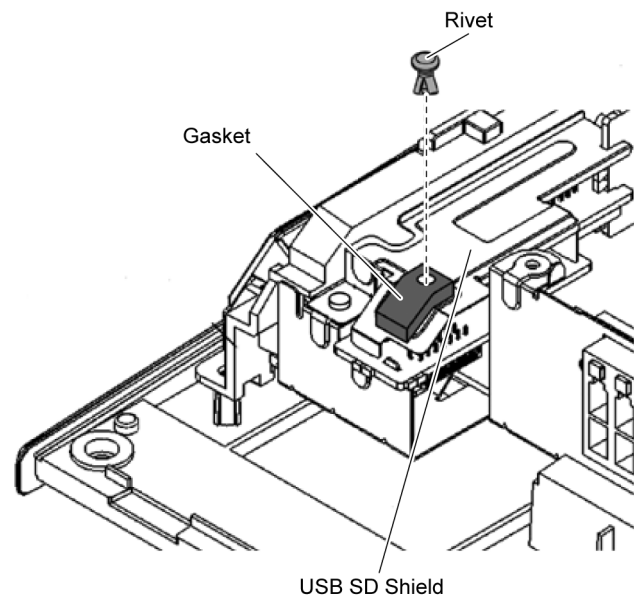
Step 4 Detach 5P wire at the connector (CN1603) on Digital P.C.B..



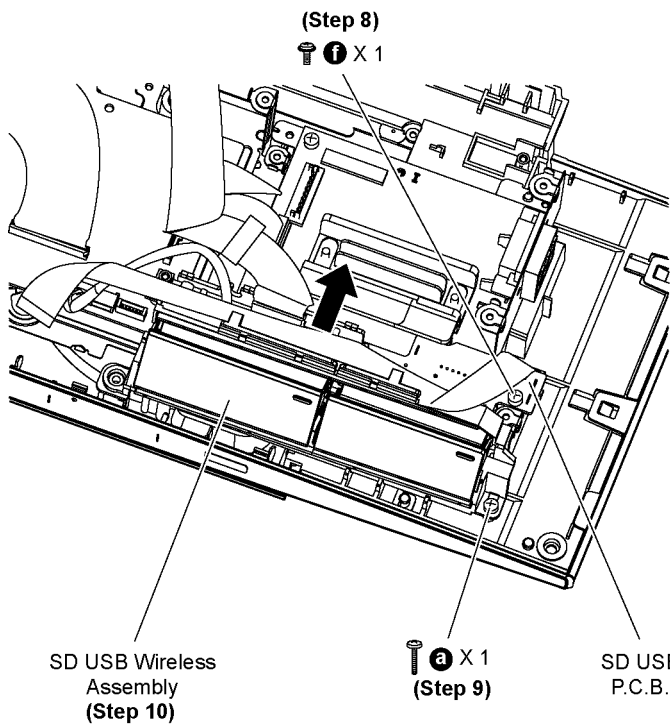
Step 5 Remove 1 screw.

Step 6 Remove USB SD shield.

Step 7 Remove USB SD P.C.B. cover.



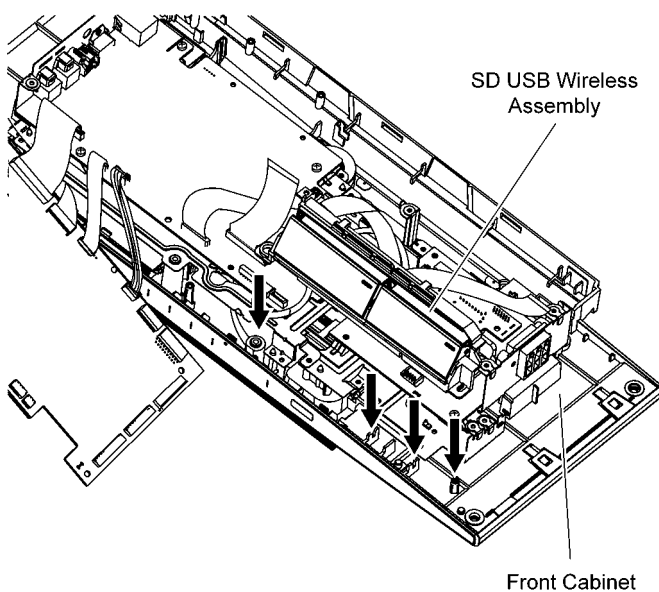
Caution: Replace the gasket if broken, ensure that the rivet is fully located & inserted into the USB SD Shield.



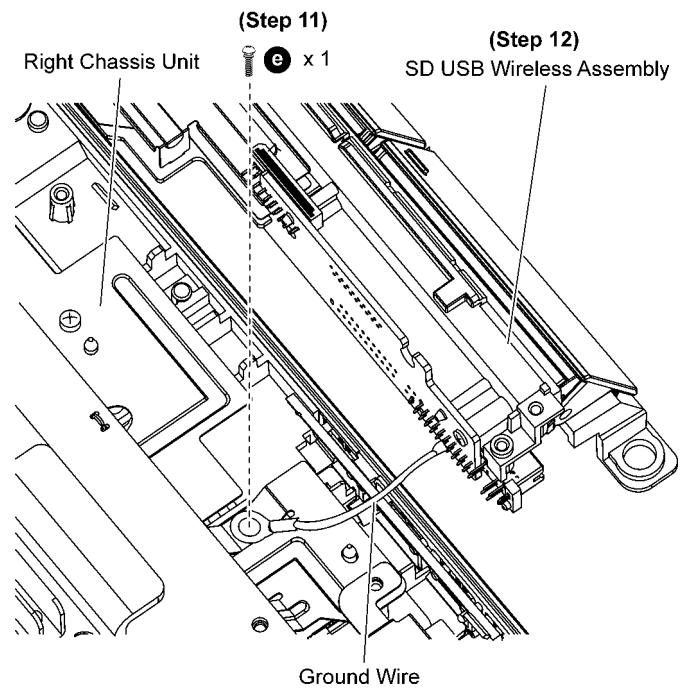
Step 8 Remove 1 screw on SD USB P.C.B..

Step 9 Remove 1 screw at SD USB Wireless Assembly.

Step 10 Lift up SD USB Wireless Assembly.



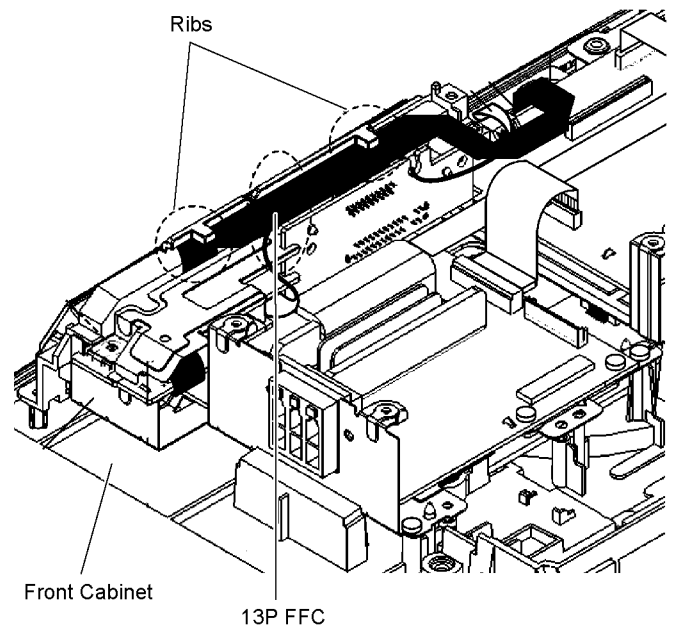
Caution: During assembling, ensure that SD USB Wireless Assembly is properly located and fully fixed onto front cabinet.



Step 11 Remove 1 screw.

Step 12 Remove SD USB Wireless Assembly.

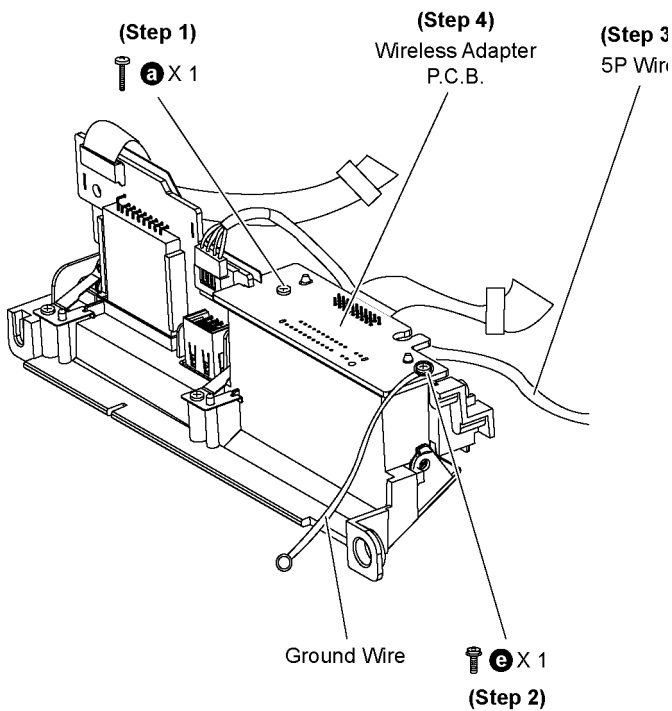
Caution: During assembling, ensure that ground wire is screwed on right chassis unit properly.



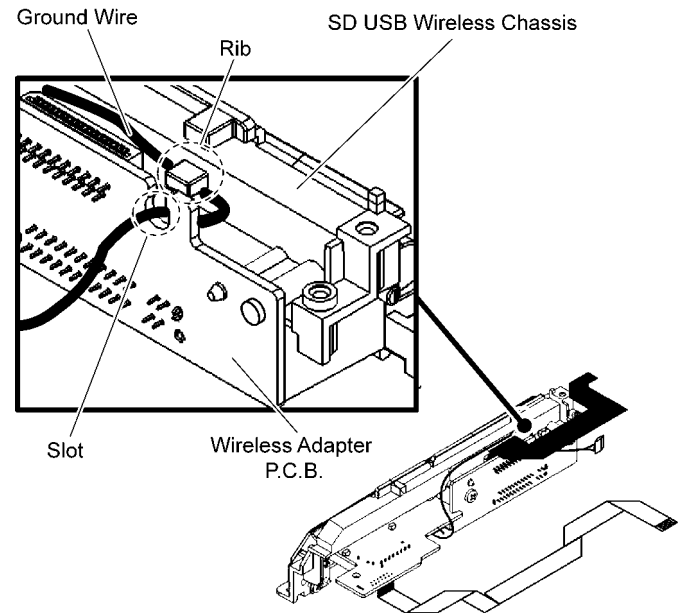
Caution: During assembling, ensure that 13P FFC is properly dressed under Ribs of front cabinet.

9.20. Disassembly of Wireless Adapter P.C.B.

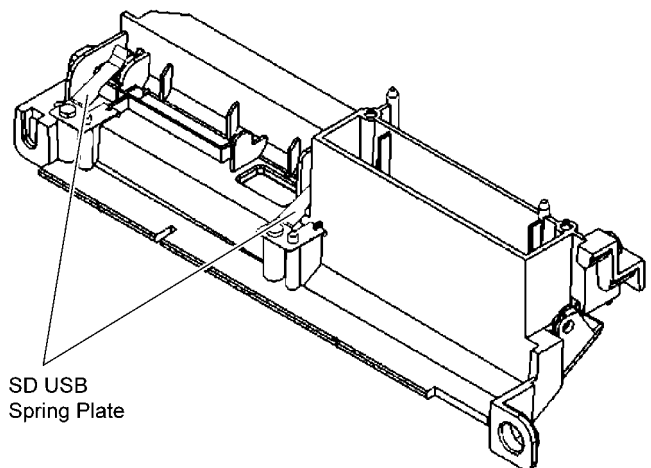
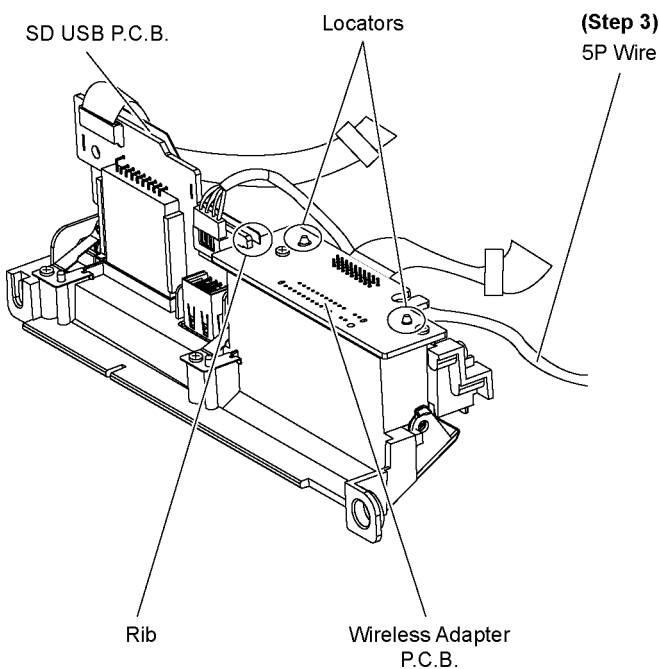
- Follow the (Step 1) to (Step 7) of Item 9.3.
- Follow the (Step 1) to (Step 8) of Item 9.4.
- Follow the (Step 1) to (Step 7) of Item 9.5.1.
- Follow the (Step 1) to (Step 3) of Item 9.8.1.
- Follow the (Step 1) to (Step 3) of Item 9.9.
- Follow the (Step 1) to (Step 9) of Item 9.10.
- Follow the (Step 1) to (Step 8) of Item 9.18.
- Follow the (Step 1) to (Step 12) of Item 8.19.



Caution: During assembling, ensure that Wireless Adapter P.C.B. is tilted and inserted into SD USB P.C.B. and seated properly at the locators.



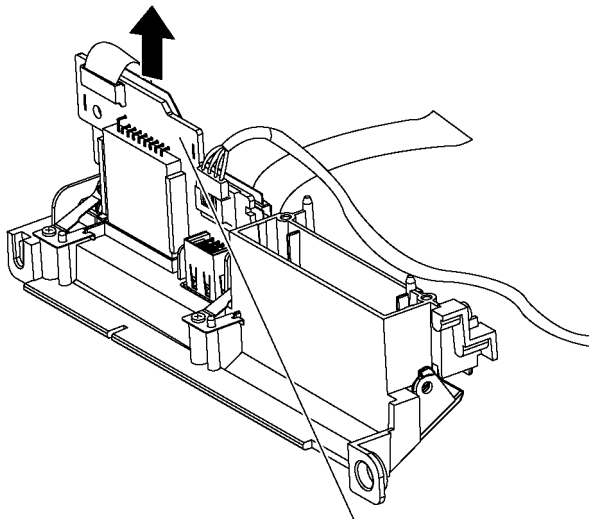
Caution: During assembling, ensure that 5P wire is dressed under SD USB wireless chassis's rib and through the Wireless Adapter P.C.B.'s slot properly.



Caution: During assembling, ensure that SD USB Spring plate is in good condition. Replace it if broken.

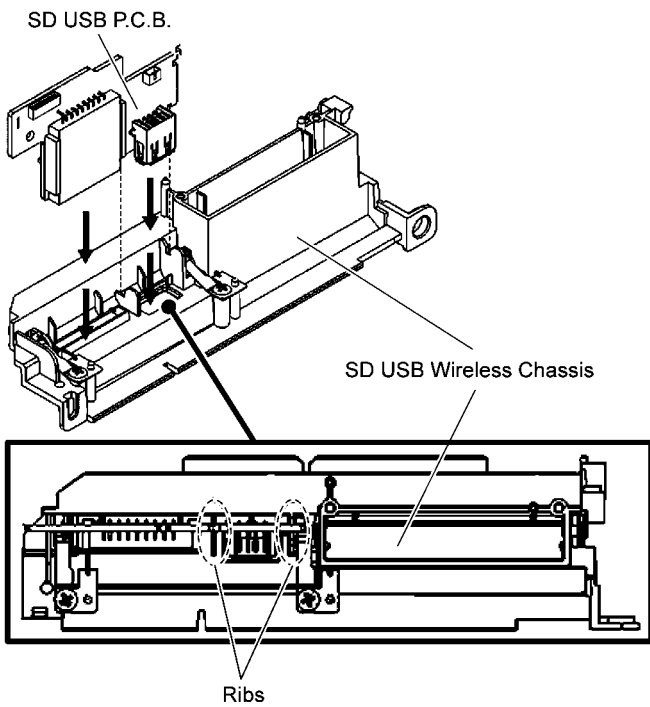
9.21. Disassembly of SD USB P.C.B.

- Follow the (Step 1) to (Step 7) of Item 9.3.
- Follow the (Step 1) to (Step 8) of Item 9.4.
- Follow the (Step 1) to (Step 7) of Item 9.5.1.
- Follow the (Step 1) to (Step 3) of Item 9.8.1.
- Follow the (Step 1) to (Step 3) of Item 9.9.
- Follow the (Step 1) to (Step 9) of Item 9.10.
- Follow the (Step 1) to (Step 8) of Item 9.18.
- Follow the (Step 1) to (Step 12) of Item 9.19.
- Follow the (Step 1) to (Step 4) of Item 9.20.

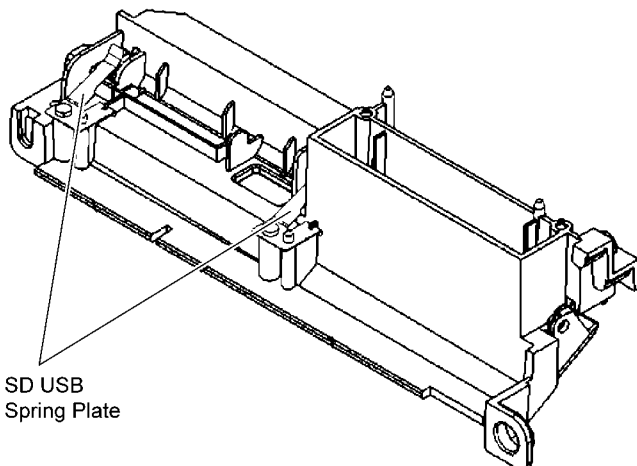


SD USB P.C.B.
(Step 1)

Step 1 Remove SD USB P.C.B..



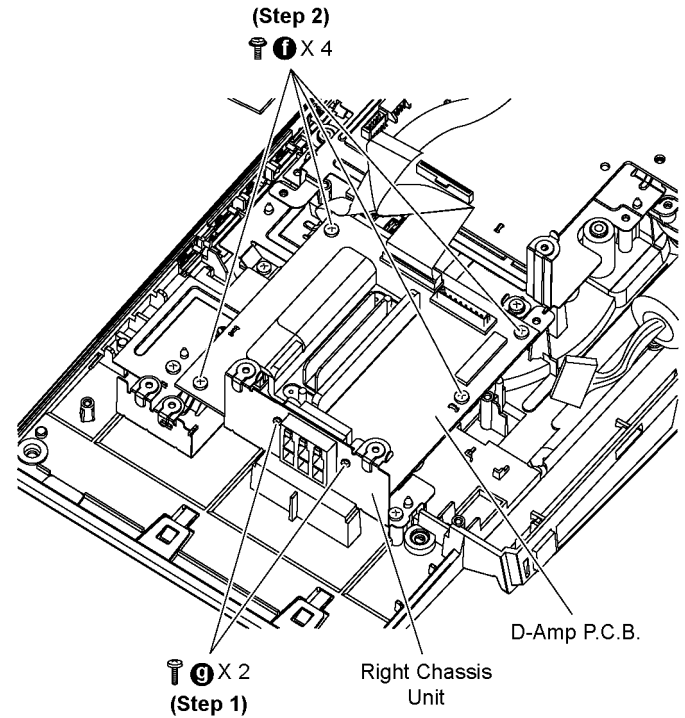
Caution: During assembling, ensure that SD USB P.C.B. is seated properly onto the SD USB Wireless Chassis.



Caution: During assembling, ensure that SD USB Spring plate is in good condition. Replace it if broken.

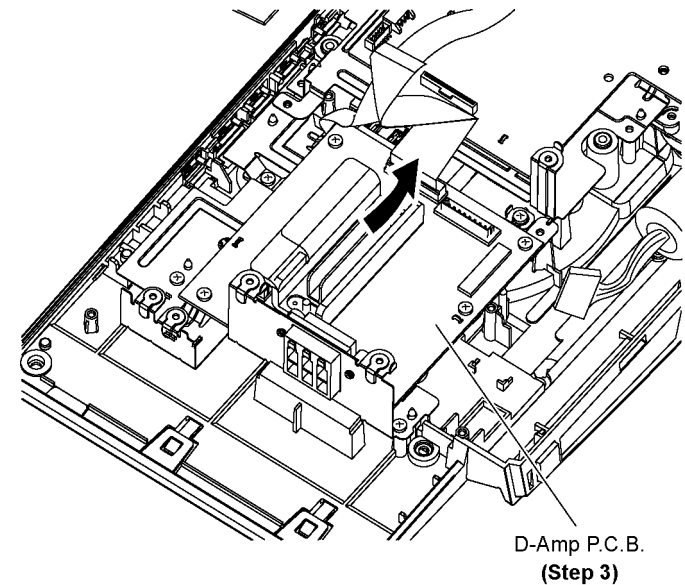
9.22. Disassembly of D-Amp P.C.B.

- Follow the (Step 1) to (Step 7) of Item 9.3.
- Follow the (Step 1) to (Step 8) of Item 9.4.
- Follow the (Step 1) to (Step 7) of Item 9.5.1.
- Follow the (Step 1) to (Step 3) of Item 9.8.1.
- Follow the (Step 1) to (Step 3) of Item 9.9.
- Follow the (Step 1) to (Step 9) of Item 9.10.
- Follow the (Step 1) to (Step 8) of Item 9.18.
- Follow the (Step 1) to (Step 12) of Item 9.19.

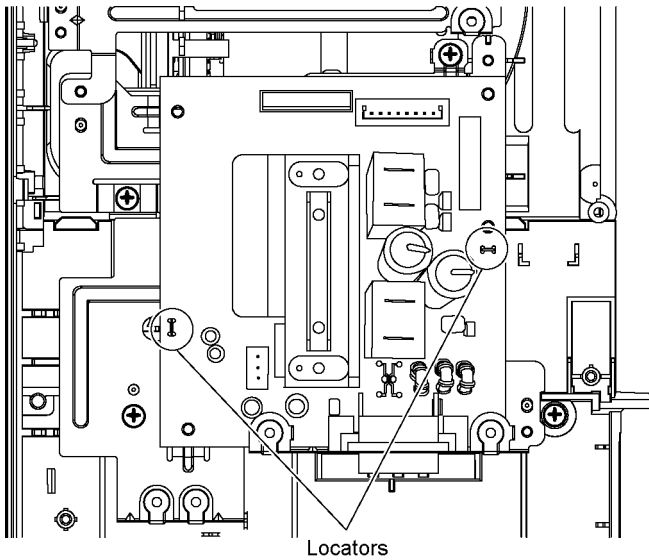


Step 1 Remove 2 screws at Right Chassis Unit.

Step 2 Remove 4 screws on D-Amp P.C.B..



Step 3 Remove D-Amp P.C.B..

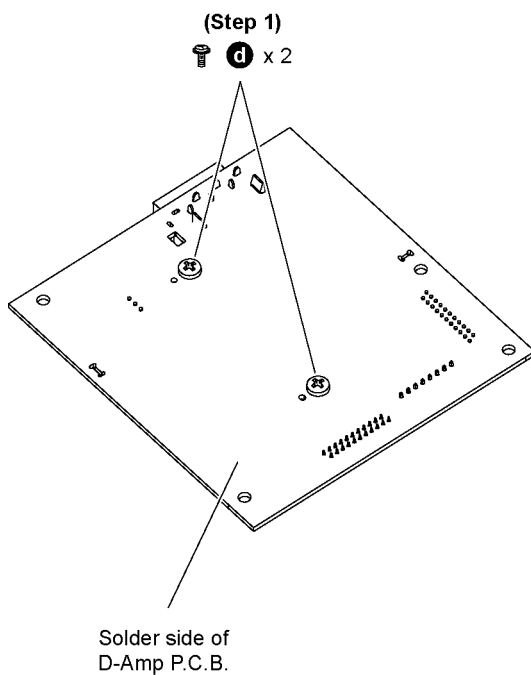


Caution: During assembling, ensure that D-Amp P.C.B. is seated properly at the locator.

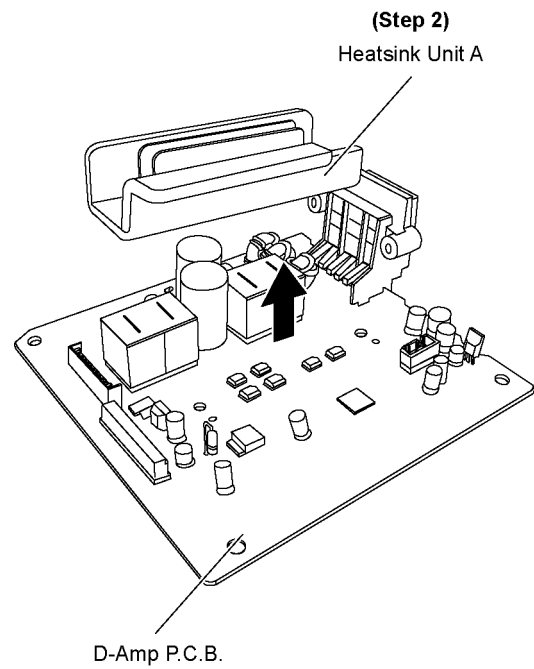
9.23. Replacement of Audio Amplifier Driver IC (IC5001)

- Follow the (Step 1) to (Step 7) of Item 9.3.
- Follow the (Step 1) to (Step 8) of Item 9.4.
- Follow the (Step 1) to (Step 7) of Item 9.5.1.
- Follow the (Step 1) to (Step 3) of Item 9.8.1.
- Follow the (Step 1) to (Step 3) of Item 9.9.
- Follow the (Step 1) to (Step 9) of Item 9.10.
- Follow the (Step 1) to (Step 8) of Item 9.18.
- Follow the (Step 1) to (Step 12) of Item 9.19.
- Follow the (Step 1) to (Step 3) of Item 9.22.

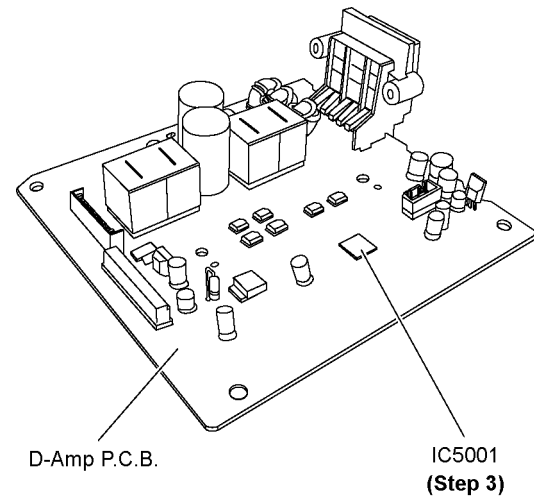
9.23.1. Disassembly of Audio Amplifier Driver IC (IC5001)



Step 1 Remove 2 screws on solder side of D-Amp P.C.B..



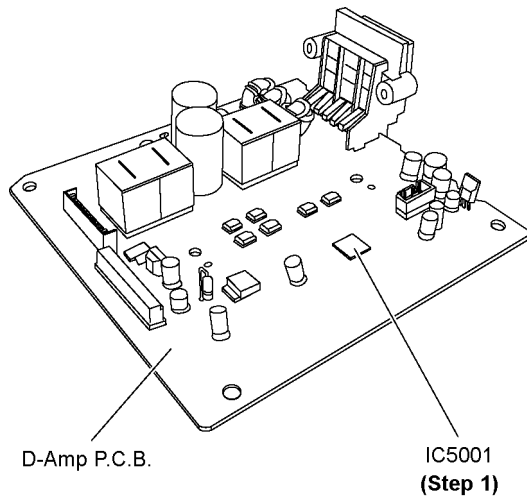
Step 2 Lift up heatsink unit A.



Step 3 Desolder pins of Audio Amplifier Driver IC (IC5001) on D-Amp P.C.B..

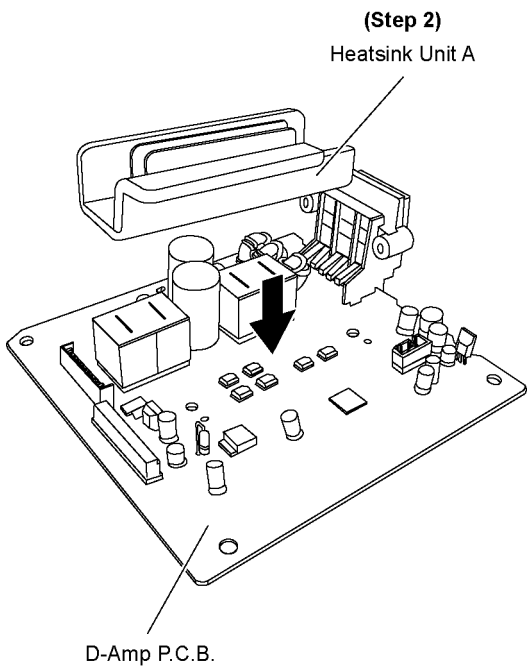
Step 4 Remove Audio Amplifier Driver IC (IC5001).

9.23.2. Assembly of Audio Amplifier Driver IC (IC5001)

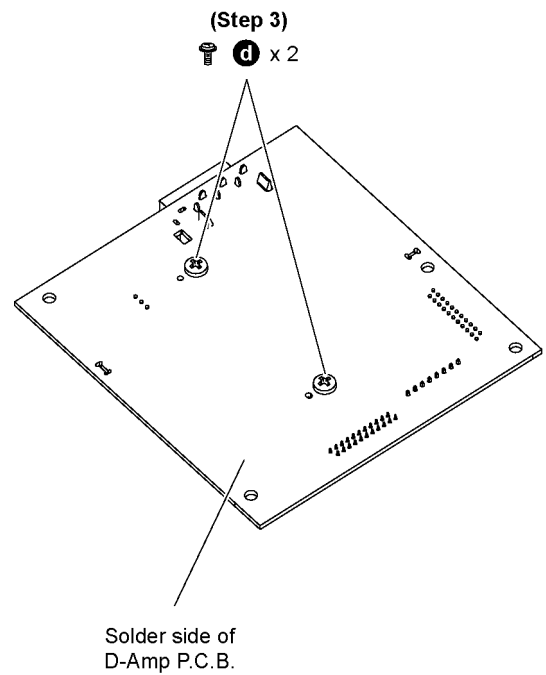


Step 1 Mount the Audio Amplifier Driver IC (IC5001) onto D-Amp P.C.B..

Caution: During assembling, ensure that the pins of Audio Amplifier Driver IC (IC5001) is positioned correctly on D-Amp P.C.B..



Step 2 Install heatsink unit A onto D-Amp P.C.B..

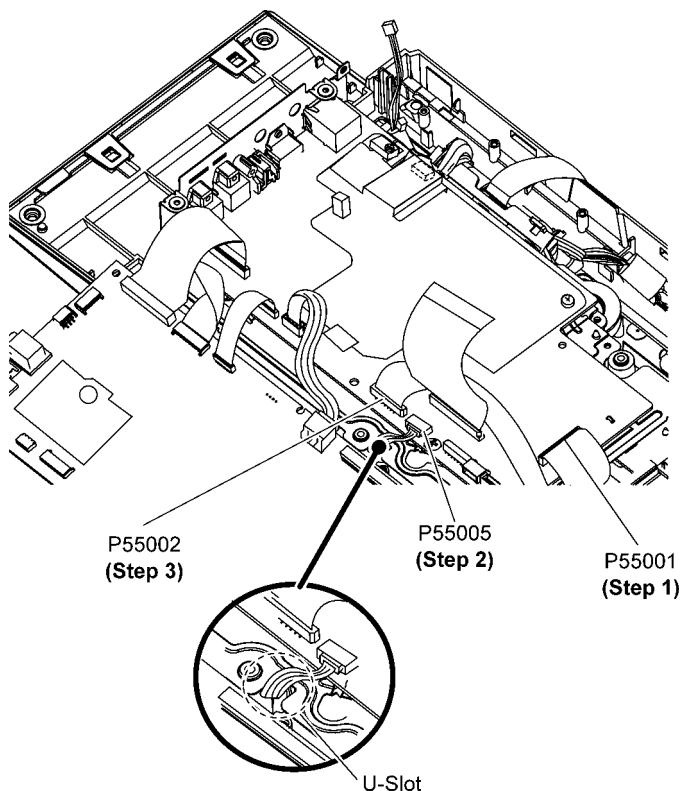


Step 3 Screw 2 screws on the solder side of D-Amp P.C.B..

9.24. Disassembly of Digital P.C.B.

- Follow the (Step 1) to (Step 7) of Item 9.3.
- Follow the (Step 1) to (Step 8) of Item 9.4.
- Follow the (Step 1) to (Step 7) of Item 9.5.1.
- Follow the (Step 1) to (Step 3) of Item 9.8.1.
- Follow the (Step 1) to (Step 3) of Item 9.9.
- Follow the (Step 1) to (Step 9) of Item 9.10.
- Follow the (Step 1) to (Step 8) of Item 9.18.
- Follow the (Step 1) to (Step 12) of Item 9.19.

Caution: Pairing of BD Drive and Digital P.C.B. as “BD Drive/Digital P.C.B. Kit Assembly” have to be replaced together. If the either BD Drive or Digital P.C.B. is changed, BD Drive unit has to be re-aligned. Because the alignment data for BD Drive Unit is stored in Digital P.C.B.

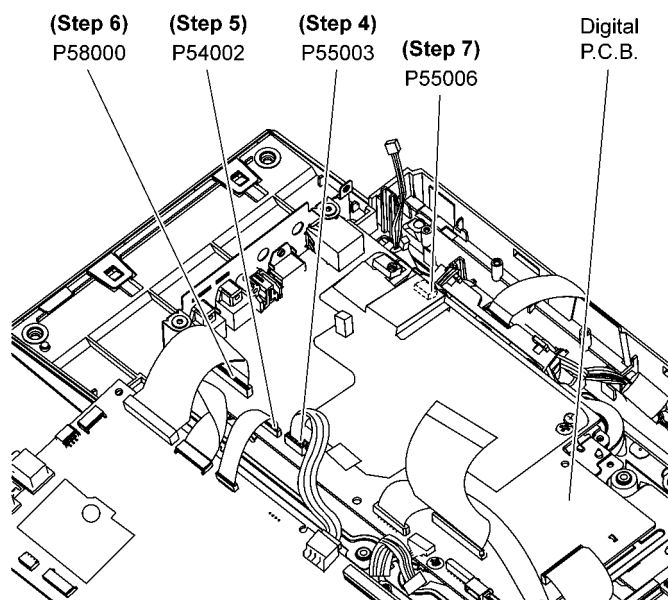


Step 1 Detach 45P FFC at the connector (P55001) on Digital P.C.B..

Step 2 Detach 4P wire at the connector (P55005) on Digital P.C.B..

Caution: During assembling, ensure that 4P wire is dressed into U-slot properly.

Step 3 Detach 12P FFC at the connector (P55002) on Digital P.C.B..

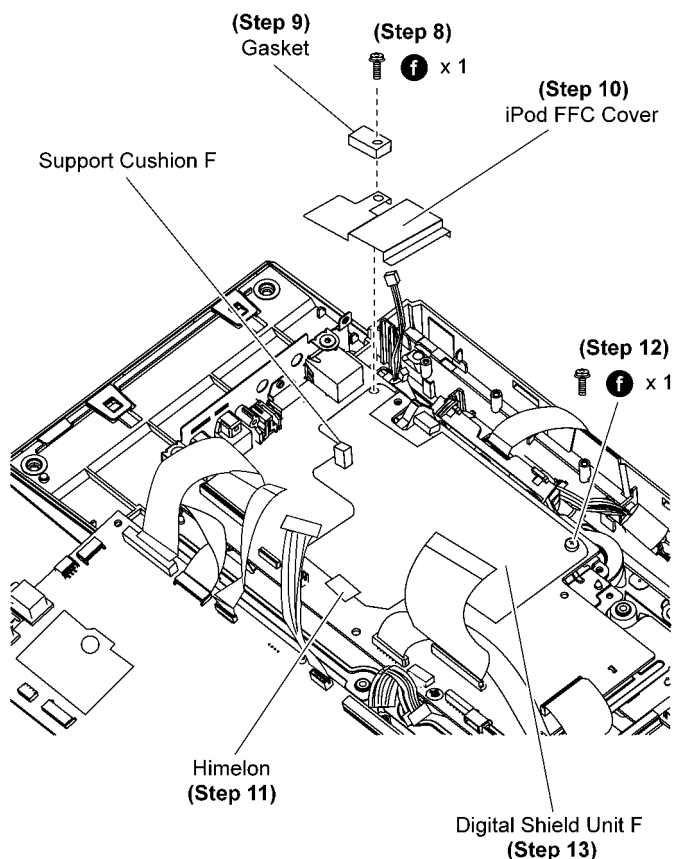


Step 4 Detach 4P wire at the connector (P55003) on Digital P.C.B..

Step 5 Detach 20P FFC at the connector (P54002) on Digital P.C.B..

Step 6 Detach 28P FFC at the connector (P58000) on Digital P.C.B..

Step 7 Detach 4P wire at the connector (P55006) on Digital P.C.B..



Step 8 Remove 1 screw at iPod FFC cover.

Step 9 Remove gasket.

Caution: Replace the gasket if it is broken.

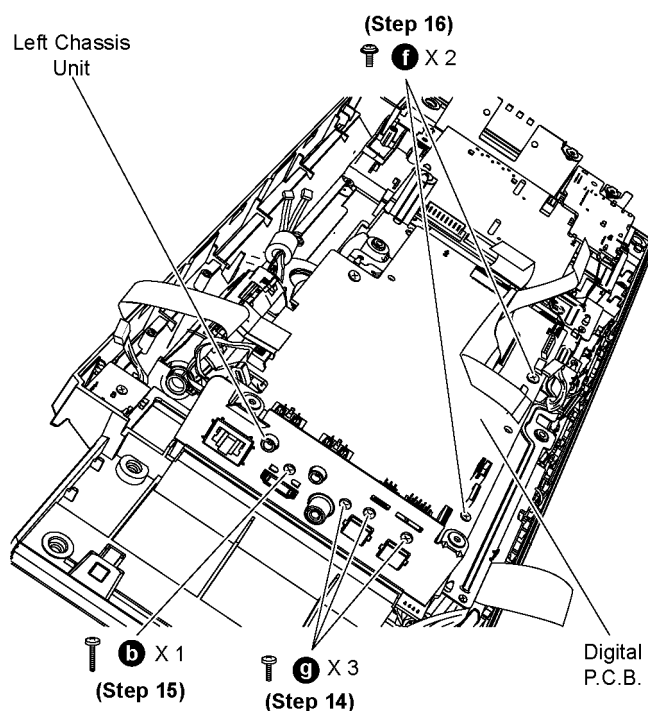
Step 10 Remove iPod FFC Cover.

Step 11 Remove Himelon that paste in digital shield unit F.

Step 12 Remove 1 screw at digital shield unit F.

Step 13 Remove digital shield unit F.

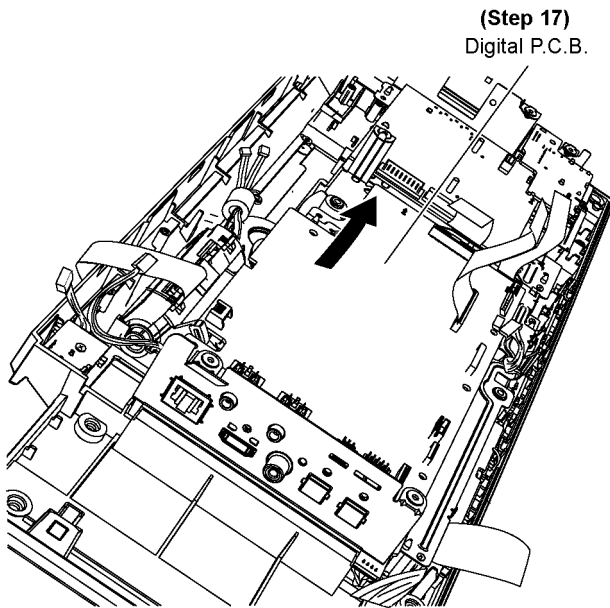
Caution: Replace the support cushion F if it is broken.



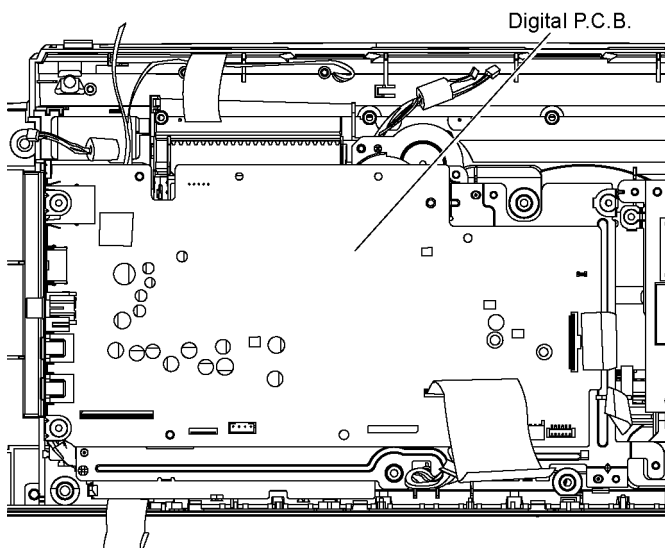
Step 14 Remove 2 screws at Left Chassis Unit.

Step 15 Remove 1 screws at Left Chassis Unit.

Step 16 Remove 2 screws on Digital P.C.B.



Step 17 Remove Digital P.C.B..



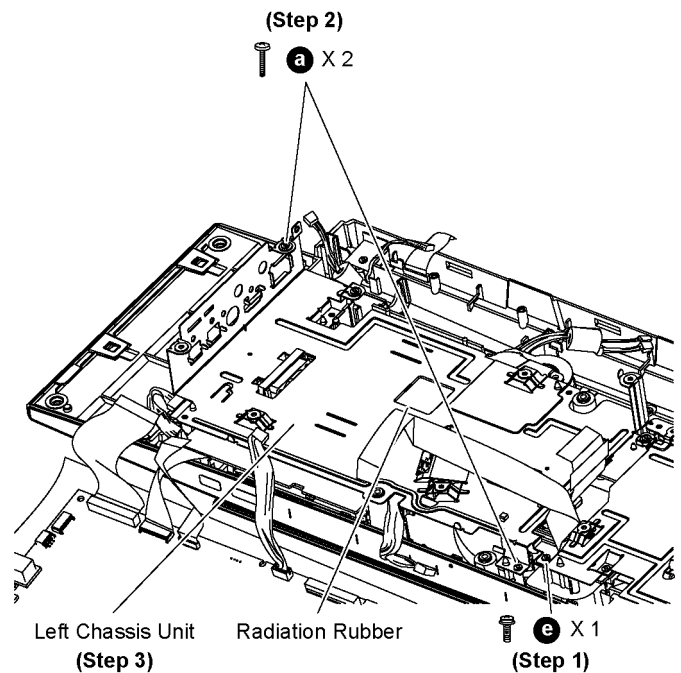
Caution: During assembling, ensure that Digital P.C.B. is seated properly at the locator.

9.25. Disassembly of BD Mechanism Assembly

- Follow the (Step 1) to (Step 7) of Item 9.3.
- Follow the (Step 1) to (Step 8) of Item 9.4.
- Follow the (Step 1) to (Step 7) of Item 9.5.1.
- Follow the (Step 1) to (Step 3) of Item 9.8.1.
- Follow the (Step 1) to (Step 3) of Item 9.9.
- Follow the (Step 1) to (Step 9) of Item 9.10.
- Follow the (Step 1) to (Step 8) of Item 9.18.
- Follow the (Step 1) to (Step 12) of Item 9.19.
- Follow the (Step 1) to (Step 17) of Item 9.24.

Caution: Pairing of BD Drive and Digital P.C.B. as “BD Drive/Digital P.C.B. Kit Assembly” have to be replaced together. If the either BD Drive or Digital P.C.B. is changed, BD Drive unit has to be re-aligned. Because the alignment data for BD Drive Unit is stored in Digital P.C.B.

- Disassembly of Left Chassis Unit.

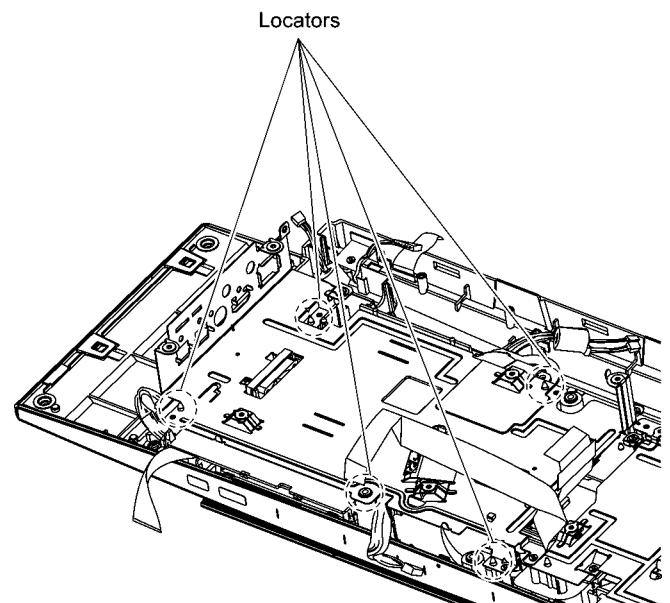


Step 1 Remove 1 screw at Left Chassis Unit.

Step 2 Remove 2 screws at Left Chassis Unit.

Step 3 Remove Left Chassis Unit.

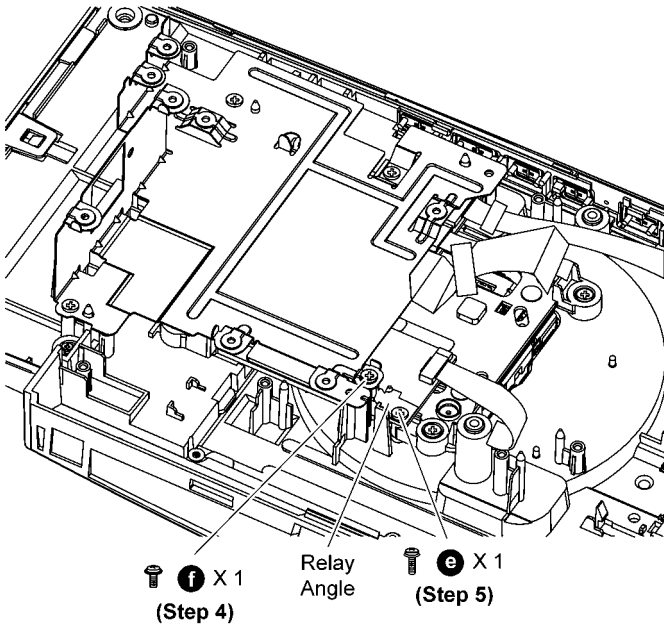
Caution: During disassembling, do not remove radiation rubber, replace it if broken.



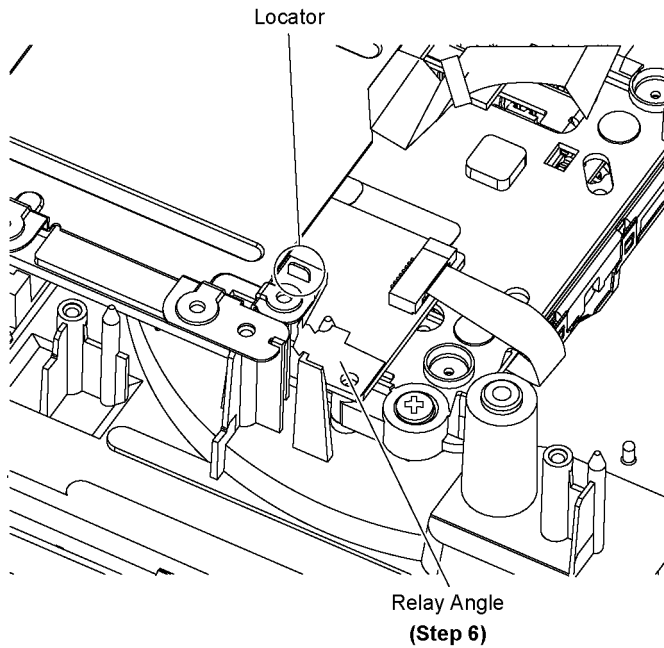
Caution: During assembling, ensure that Left Chassis Unit is seated properly at the locator.

- Disassembly of Right Chassis Unit.

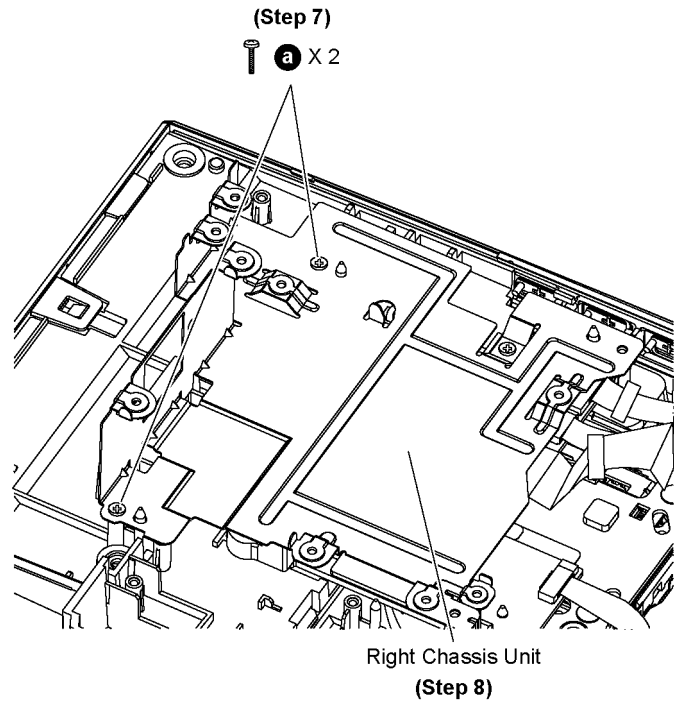
Caution: During assembling, ensure that Relay Angle is seated properly at the locator.



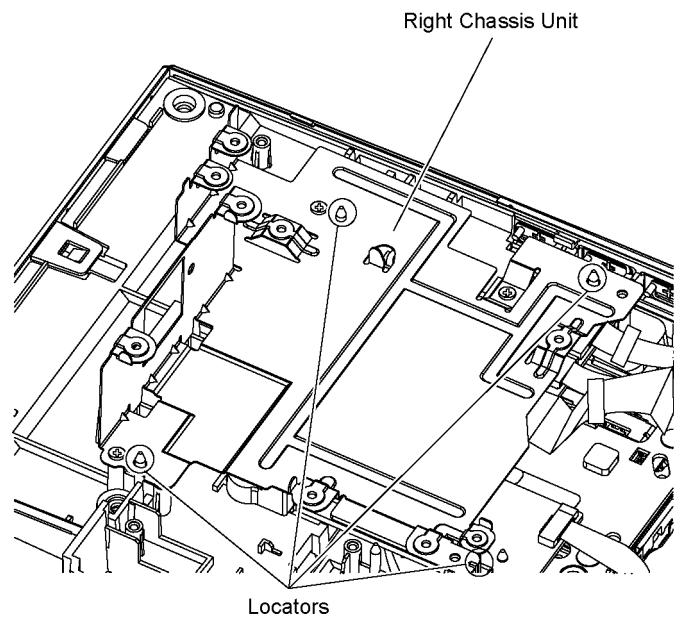
Step 4 Remove 1 screw at Relay Angle.
Step 5 Remove 1 screw at Relay Angle.



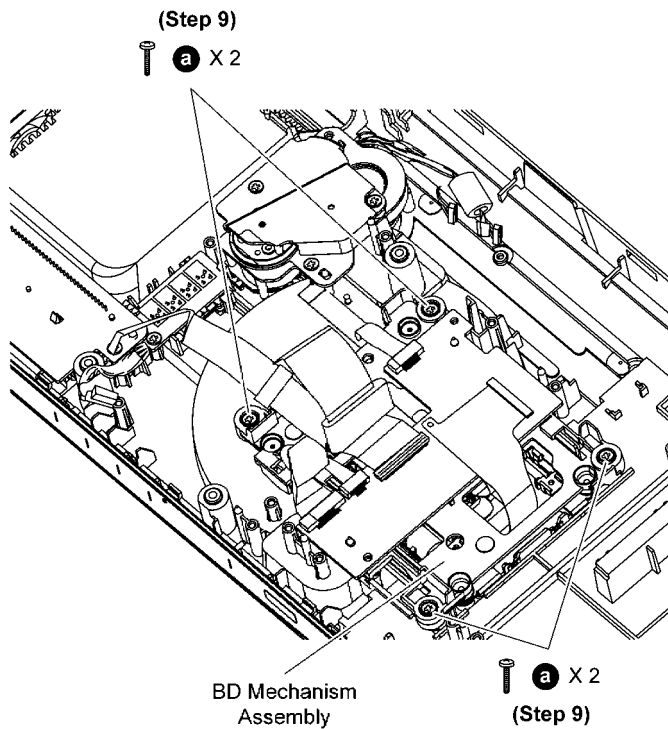
Step 6 Remove Relay Angle.



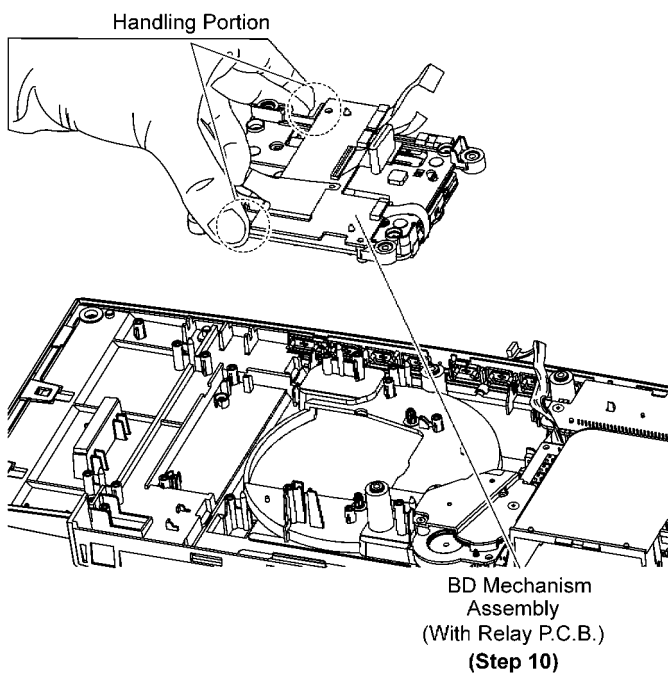
Step 7 Remove 2 screws at Right Chassis Unit.
Step 8 Remove Right Chassis Unit.



Caution: During assembling, ensure that Right Chassis Unit is seated properly at the locators.

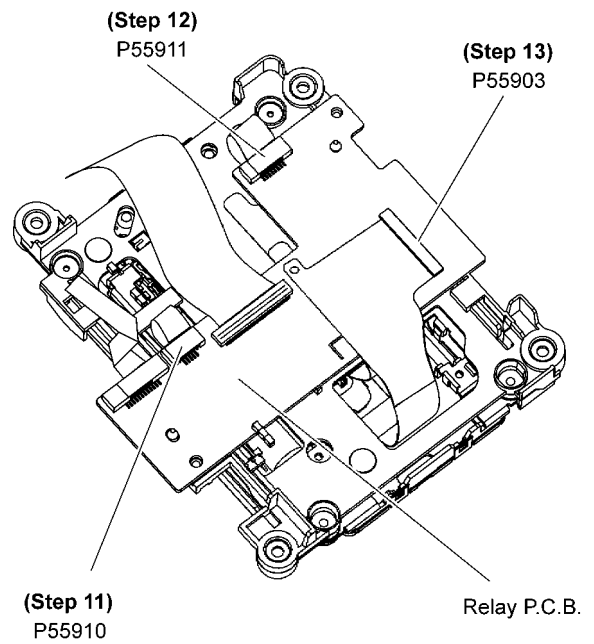


Step 9 Remove 4 screws.



Step 10 Lift up to remove BD Mechanism Assembly (With Relay P.C.B.).

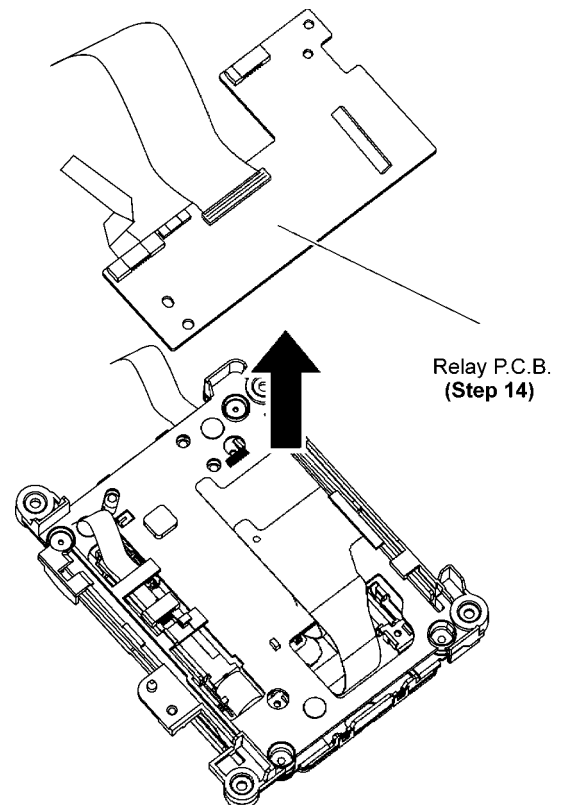
• Disassembly of Relay P.C.B.



Step 11 Detach 5P FFC at the connector (P55910) on Relay P.C.B..

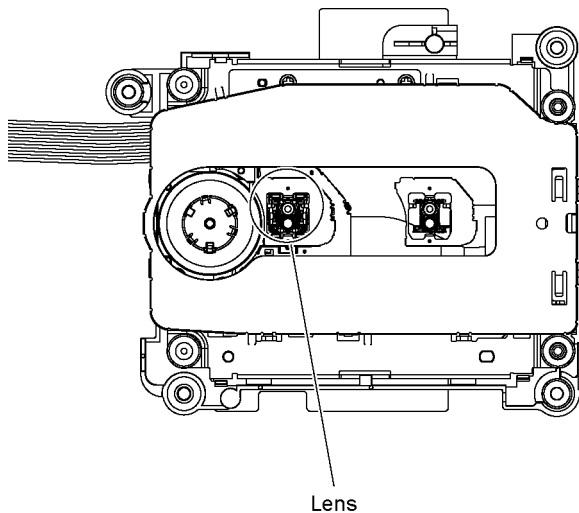
Step 12 Detach 8P FFC at the connector (P55911) on Relay P.C.B..

Step 13 Detach 71P FFC at the connector (P55903) on Relay P.C.B..

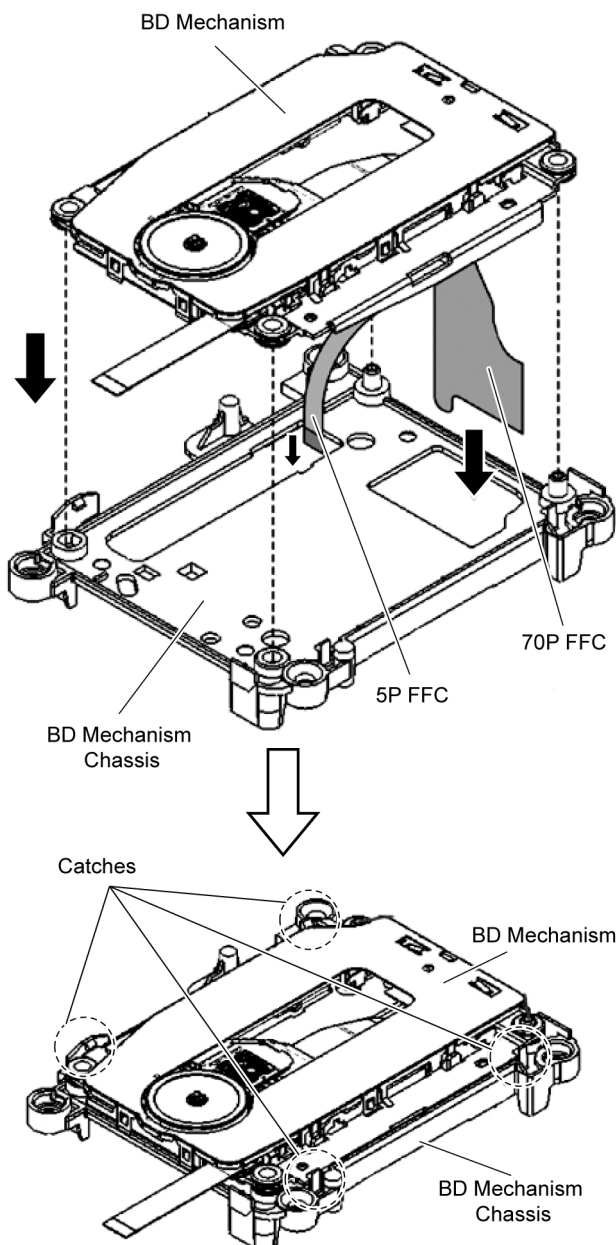


Step 14 Remove Relay P.C.B..

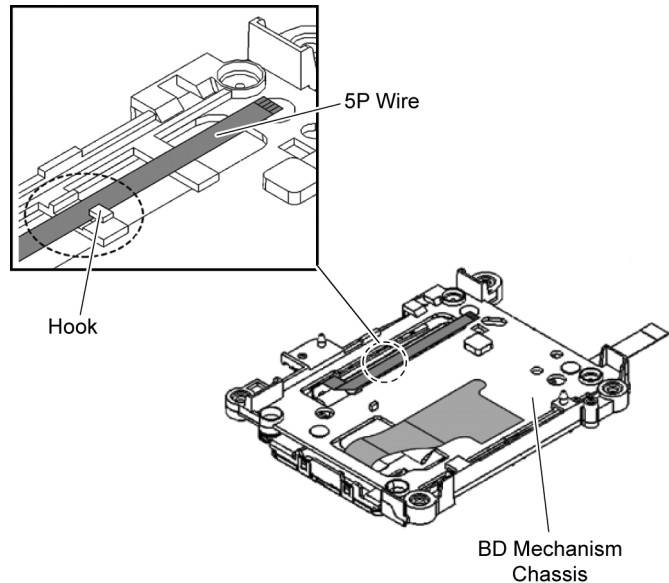
Caution 1: Handle at the handling portion when removing the BD Mechanism Assembly.



Caution 2: Avoid touching the lens during assembling/dis-assembling of BD Mechanism Assembly.



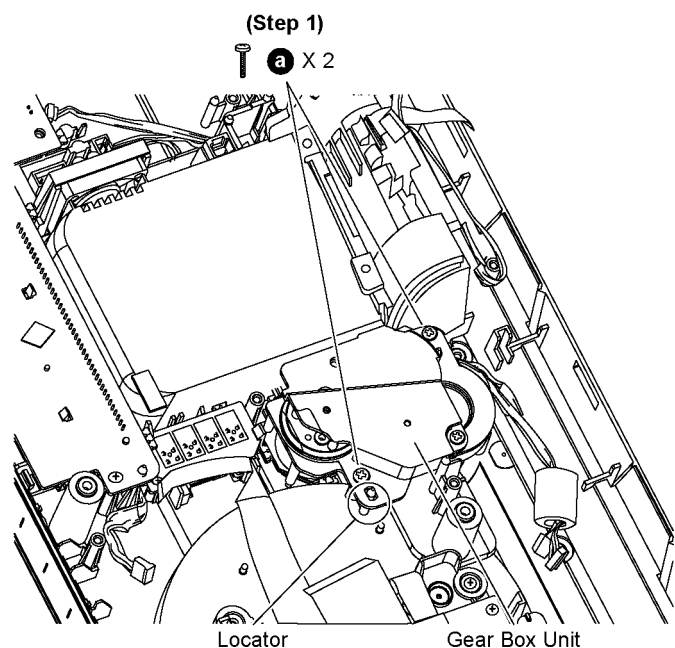
Caution 3: During replacement of BD Mechanism, ensure that BD Mechanism is seated and caught onto the BD Mechanism Chassis properly.



Caution 4: During assembling, ensure that 5P FFC is dressed under the hook properly.

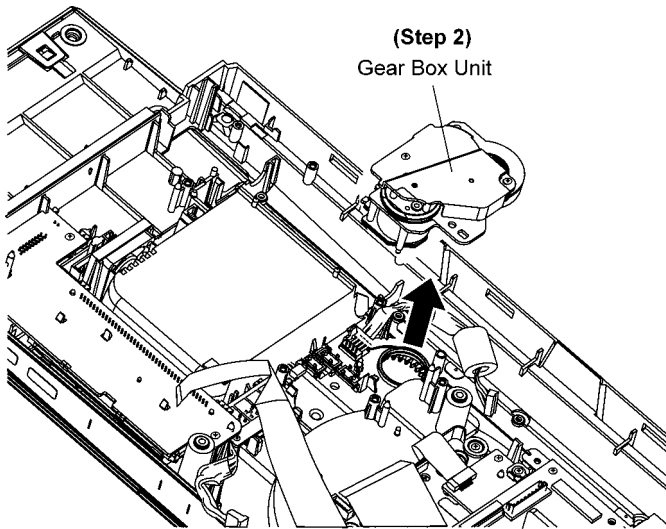
9.26. Disassembly of Motor P.C.B.

- Follow the (Step 1) to (Step 7) of Item 9.3.
- Follow the (Step 1) to (Step 8) of Item 9.4.
- Follow the (Step 1) to (Step 7) of Item 9.5.1.
- Follow the (Step 1) to (Step 3) of Item 9.8.1.
- Follow the (Step 1) to (Step 3) of Item 9.9.
- Follow the (Step 1) to (Step 9) of Item 9.10.
- Follow the (Step 1) to (Step 8) of Item 9.18.
- Follow the (Step 1) to (Step 12) of Item 9.19.
- Follow the (Step 1) to (Step 17) of Item 9.24.
- Follow the (Step 1) to (Step 3) of Item 9.25.

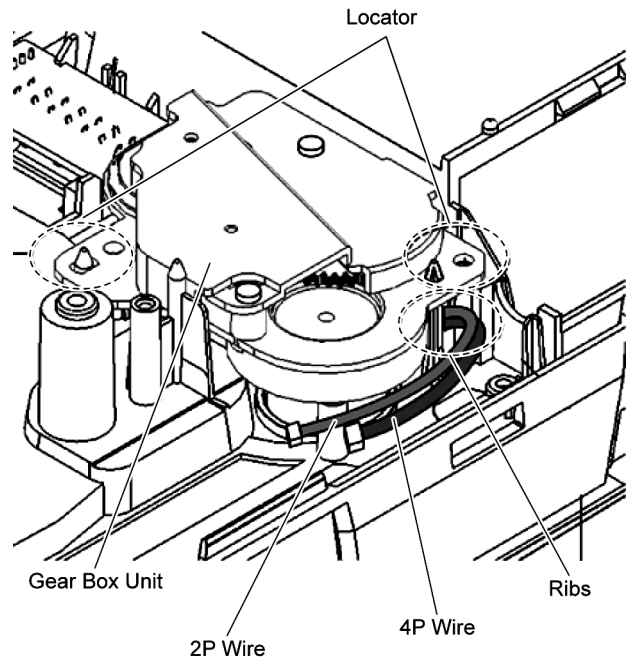


Step 1 Remove 2 screws at Gear Box Unit.

Caution: During assembling, ensure that Gear Box Unit is seated properly at the locator.



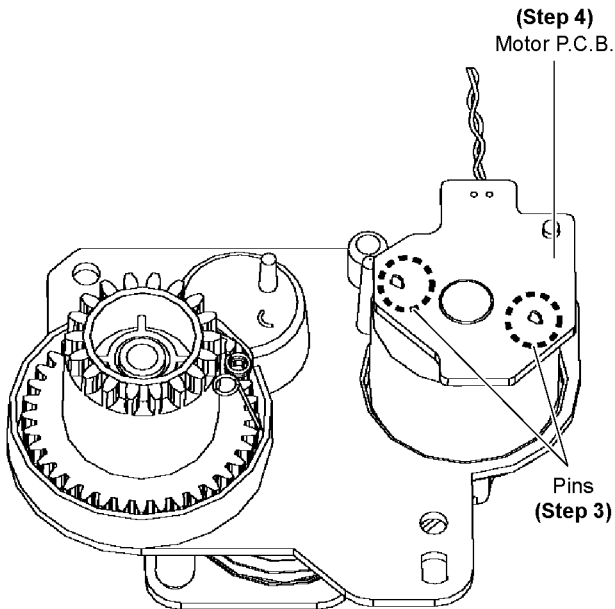
Step 2 Remove Gear Box Unit.



Caution: During assembling, ensure that 4P and 2P wires are dressed between ribs of front cabinet.

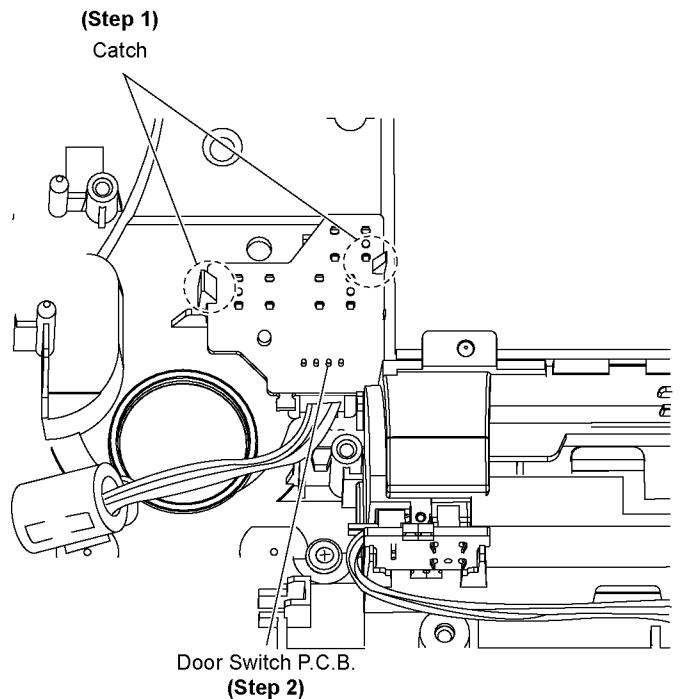
9.27. Disassembly of Door Switch P.C.B.

- Follow the (Step 1) to (Step 7) of Item 9.3.
- Follow the (Step 1) to (Step 8) of Item 9.4.
- Follow the (Step 1) to (Step 7) of Item 9.5.1.
- Follow the (Step 1) to (Step 3) of Item 9.8.1.
- Follow the (Step 1) to (Step 3) of Item 9.9.
- Follow the (Step 1) to (Step 9) of Item 9.10.
- Follow the (Step 1) to (Step 8) of Item 9.18.
- Follow the (Step 1) to (Step 12) of Item 9.19.
- Follow the (Step 1) to (Step 17) of Item 9.24.
- Follow the (Step 1) to (Step 3) of Item 9.25.



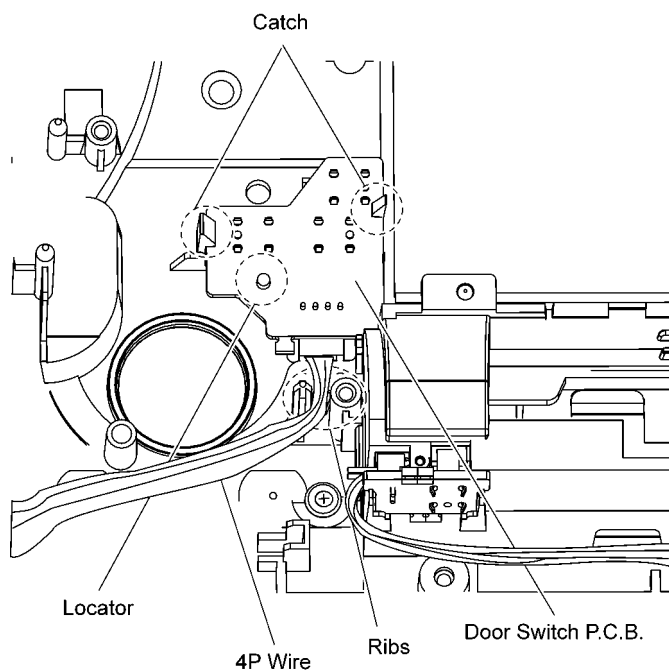
Step 3 Desolder pins of Motor P.C.B..

Step 4 Remove Motor P.C.B..



Step 1 Release 2 catches on Door Switch P.C.B..

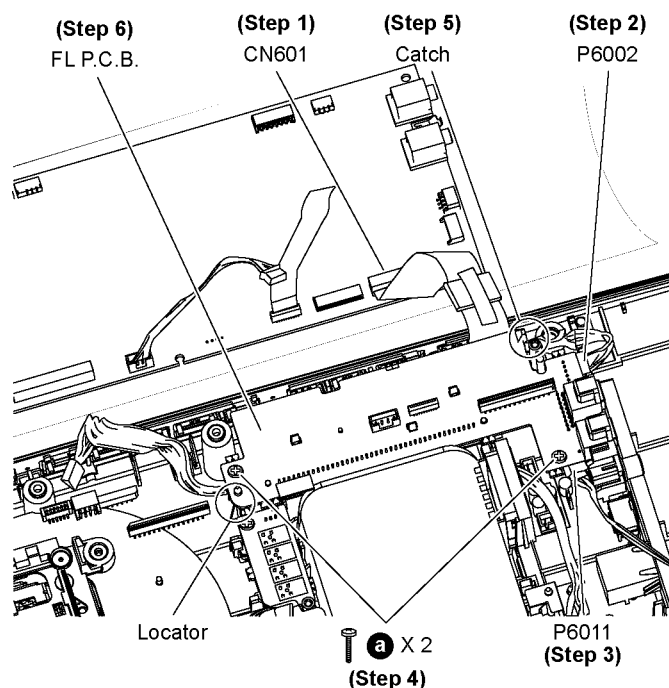
Step 2 Remove Door Switch P.C.B..



Caution: During assembling, ensure that Door Switch P.C.B. is fully caught and 4 wire is dressed between the ribs as diagram shown.

9.28. Disassembly of FL P.C.B.

- Follow the (Step 1) to (Step 7) of Item 9.3.
- Follow the (Step 1) to (Step 8) of Item 9.4.
- Follow the (Step 1) to (Step 7) of Item 9.5.1.
- Follow the (Step 1) to (Step 3) of Item 9.8.1.
- Follow the (Step 1) to (Step 3) of Item 9.9.
- Follow the (Step 1) to (Step 9) of Item 9.10.
- Follow the (Step 1) to (Step 8) of Item 9.18.
- Follow the (Step 1) to (Step 12) of Item 9.19.
- Follow the (Step 1) to (Step 17) of Item 9.24.
- Follow the (Step 1) to (Step 3) of Item 9.25.



Step 1 Detach 17P FFC at the connector (CN601) on Main

P.C.B..

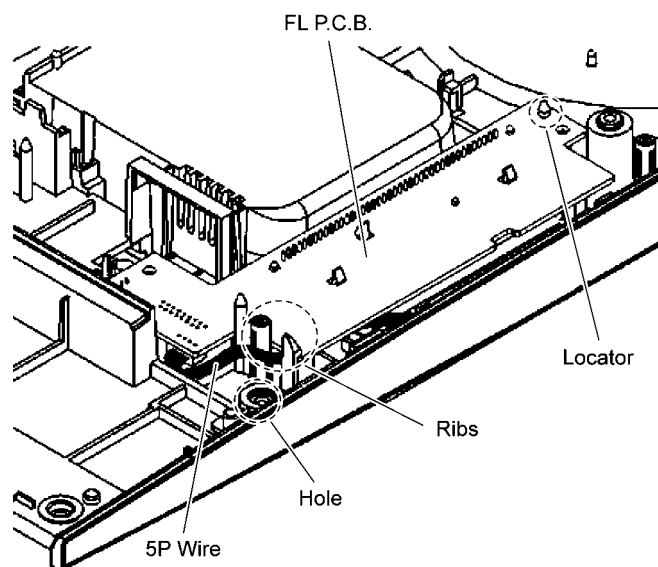
Step 2 Detach 5P wire at the connector (P6002) on FL P.C.B..

Step 3 Detach 2P wire at the connector (P6011) on FL P.C.B..

Step 4 Remove 2 screws on FL P.C.B..

Step 5 Release the catch on FL P.C.B..

Step 6 Remove FL P.C.B..

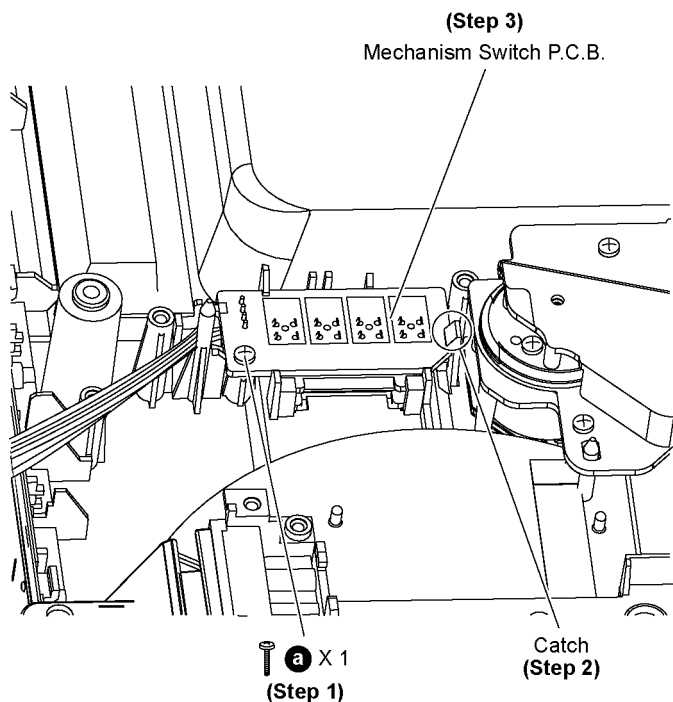


Caution 1: During assembling, ensure that FL P.C.B. is seated properly at the locator.

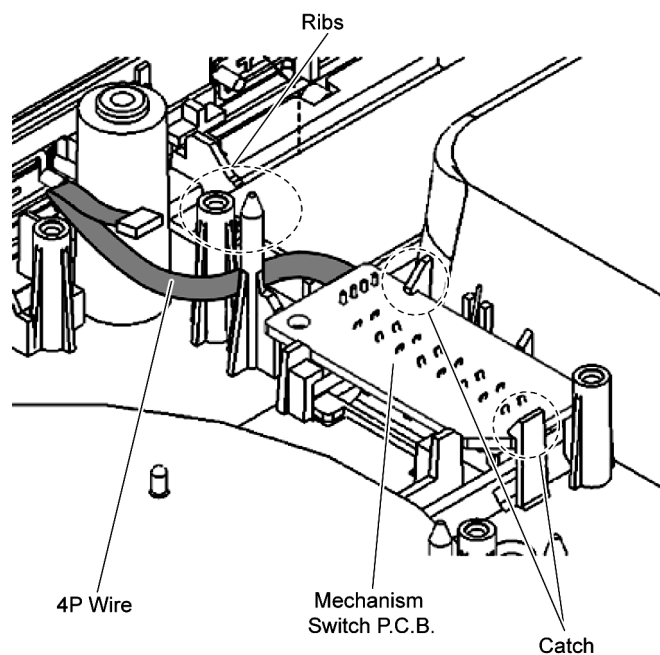
Caution 2: During assembling, ensure that 5P wire is dressed between ribs of front cabinet properly & avoid covering the hole.

9.29. Disassembly of Mechanism Switch P.C.B.

- Follow the (Step 1) to (Step 7) of Item 9.3.
- Follow the (Step 1) to (Step 8) of Item 9.4.
- Follow the (Step 1) to (Step 7) of Item 9.5.1.
- Follow the (Step 1) to (Step 3) of Item 9.8.1.
- Follow the (Step 1) to (Step 3) of Item 9.9.
- Follow the (Step 1) to (Step 9) of Item 9.10.
- Follow the (Step 1) to (Step 8) of Item 9.18.
- Follow the (Step 1) to (Step 12) of Item 9.19.
- Follow the (Step 1) to (Step 17) of Item 9.24.
- Follow the (Step 1) to (Step 3) of Item 9.25.
- Follow the (Step 1) to (Step 6) of Item 9.28.



- Step 1** Remove 1 screw on Mechanism Switch P.C.B..
Step 2 Release the catch on the Mechanism Switch P.C.B..
Step 3 Remove Mechanism Switch P.C.B..

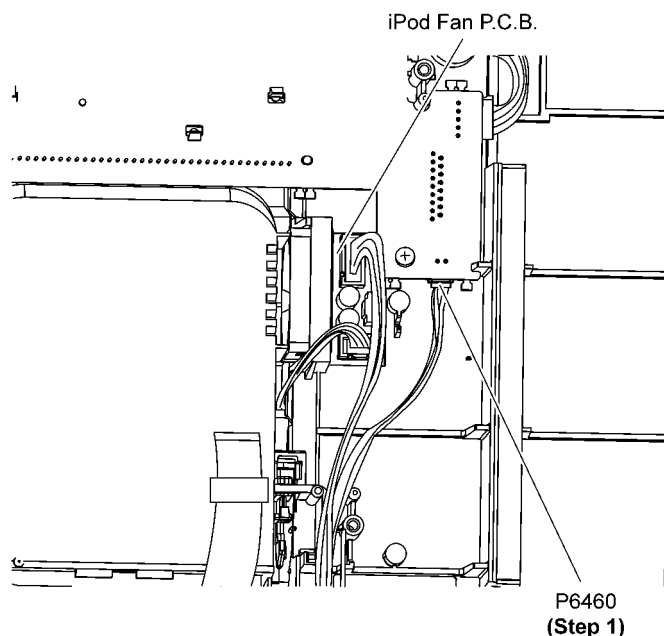


Caution: During assembling, ensure that Mechanism Switch P.C.B. is fully caught and 4P wire is well dressed between 2 ribs.

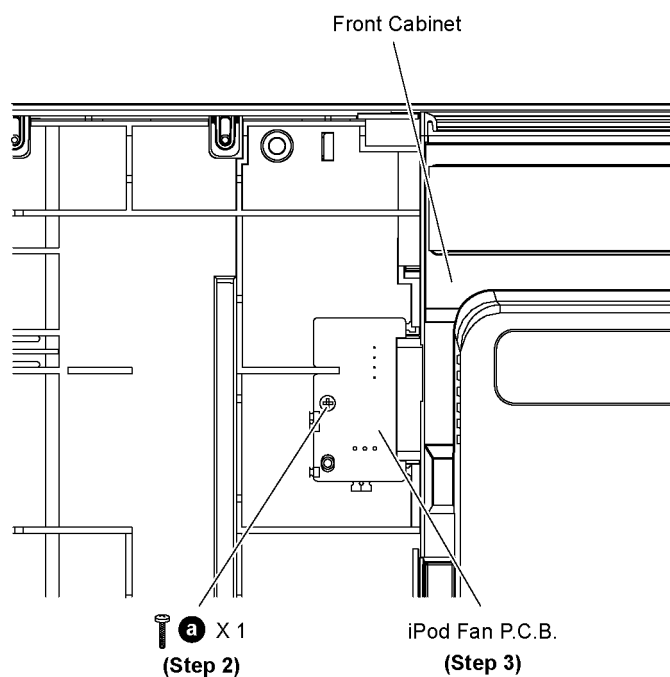
9.30. Disassembly of iPod Fan P.C.B.

- Follow the (Step 1) to (Step 7) of Item 9.3.
- Follow the (Step 1) to (Step 8) of Item 9.4.
- Follow the (Step 1) to (Step 7) of Item 9.5.1.
- Follow the (Step 1) to (Step 3) of Item 9.8.1.
- Follow the (Step 1) to (Step 3) of Item 9.9.
- Follow the (Step 1) to (Step 9) of Item 9.10.
- Follow the (Step 1) to (Step 8) of Item 9.18.
- Follow the (Step 1) to (Step 12) of Item 9.19.
- Follow the (Step 1) to (Step 17) of Item 9.24.

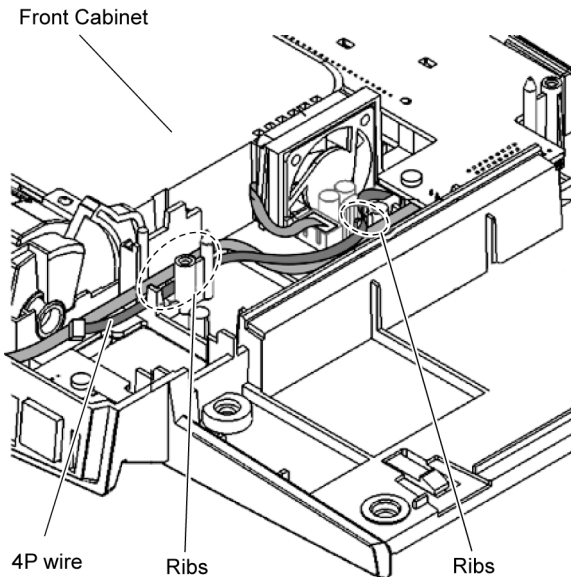
- Follow the (Step 1) to (Step 3) of Item 8.25.



- Step 1** Detach 3P wire at the connector (P6460) on iPod Fan P.C.B..



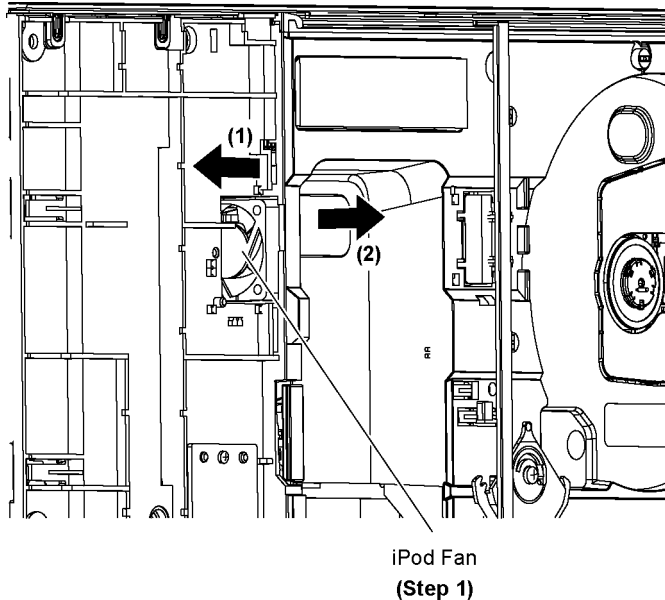
- Step 2** Remove 1 screw on iPod Fan P.C.B..
Step 3 Remove iPod Fan P.C.B..



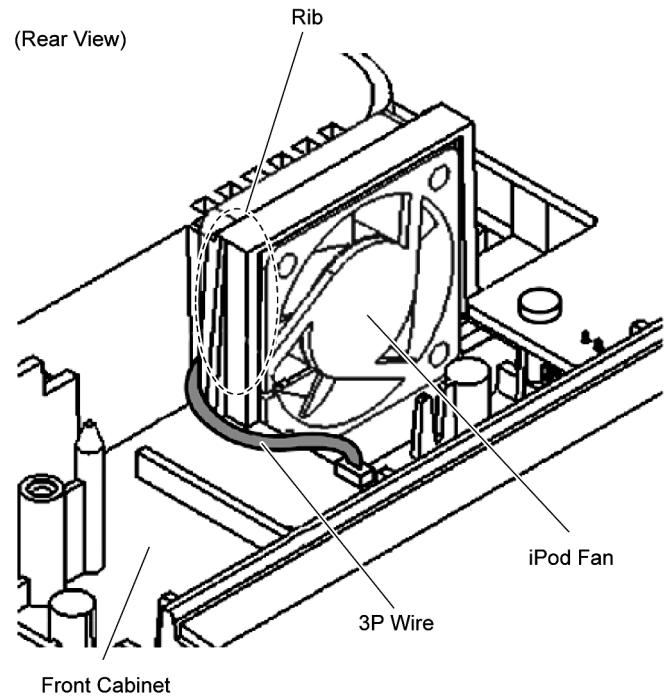
Caution: During assembling, ensure that 4P wire is dressed between ribs of front cabinet.

9.31. Disassembly of iPod Fan

- Follow the (Step 1) to (Step 7) of Item 9.3.
- Follow the (Step 1) to (Step 8) of Item 9.4.
- Follow the (Step 1) to (Step 7) of Item 9.5.1.
- Follow the (Step 1) to (Step 3) of Item 9.8.1.
- Follow the (Step 1) to (Step 3) of Item 9.9.
- Follow the (Step 1) to (Step 9) of Item 9.10.
- Follow the (Step 1) to (Step 8) of Item 9.18.
- Follow the (Step 1) to (Step 12) of Item 9.19.
- Follow the (Step 1) to (Step 17) of Item 9.24.
- Follow the (Step 1) to (Step 3) of Item 9.25.
- Follow the (Step 1) to (Step 3) of Item 9.30.



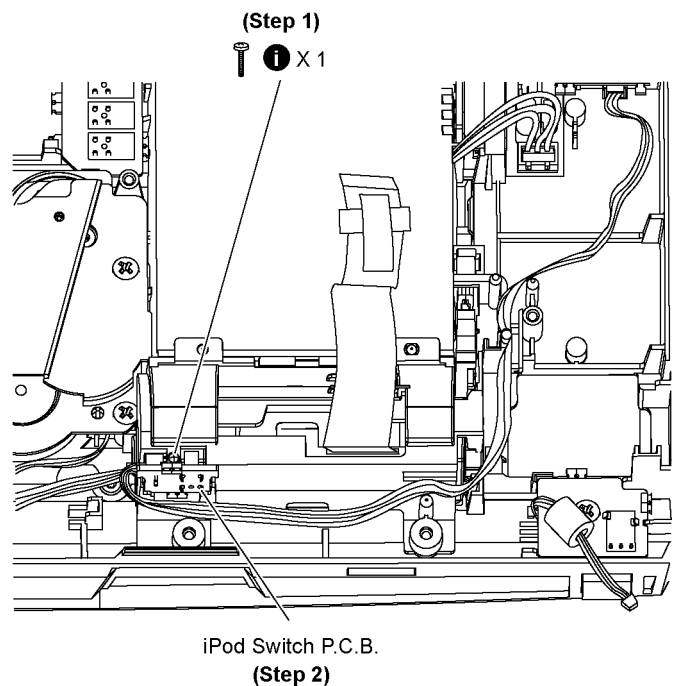
Step 1 Remove iPod Fan in the direction of arrow (1) and (2) shown.



Caution: During assembling, ensure that 3P wire of iPod fan is dressed behind ribs of front cabinet.

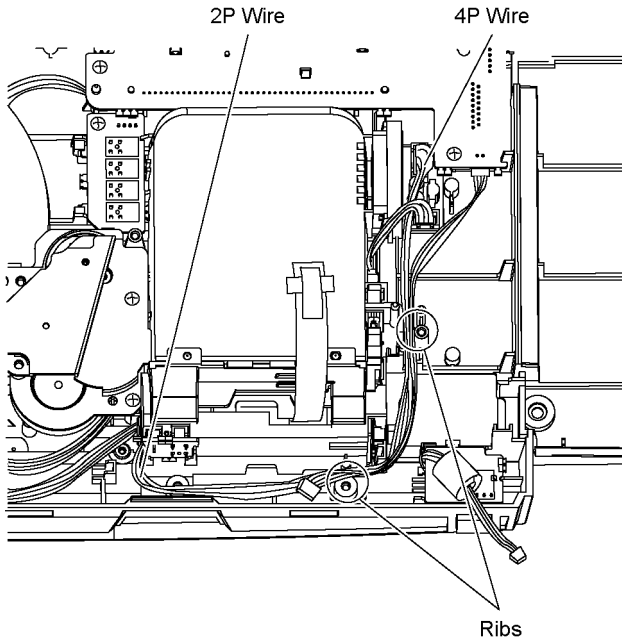
9.32. Disassembly of iPod Switch P.C.B.

- Follow the (Step 1) to (Step 7) of Item 9.3.
- Follow the (Step 1) to (Step 8) of Item 9.4.
- Follow the (Step 1) to (Step 7) of Item 9.5.1.
- Follow the (Step 1) to (Step 3) of Item 9.8.1.
- Follow the (Step 1) to (Step 3) of Item 9.9.
- Follow the (Step 1) to (Step 9) of Item 9.10.
- Follow the (Step 1) to (Step 8) of Item 9.18.
- Follow the (Step 1) to (Step 12) of Item 9.19.
- Follow the (Step 1) to (Step 17) of Item 9.24.
- Follow the (Step 1) to (Step 3) of Item 9.25.
- Follow the (Step 3) of item 9.28.



Step 1 Remove 1 screw on iPod Switch P.C.B..

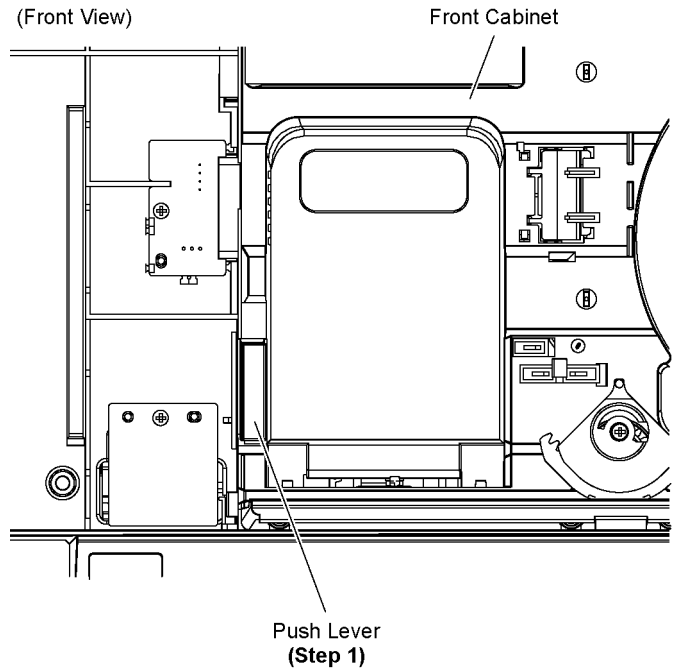
Step 2 Remove iPod Switch P.C.B..



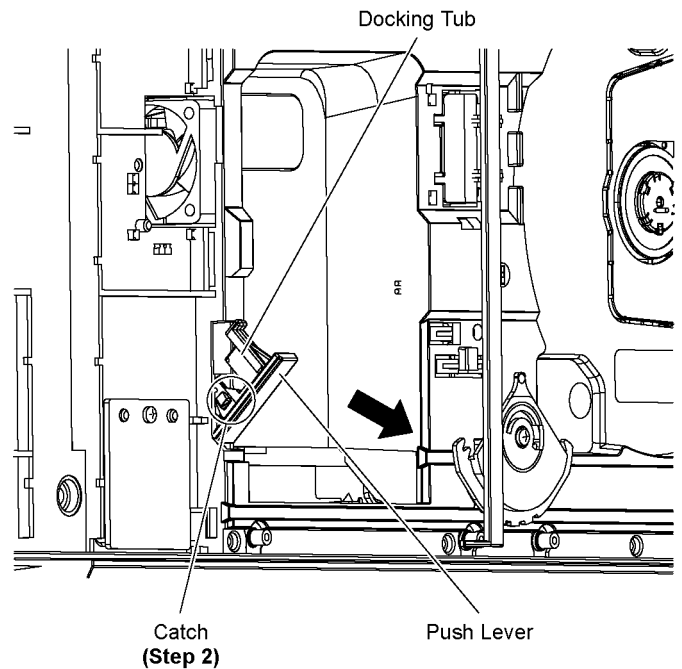
Caution: During assembling, ensure that 2P wire are dressed between the ribs of front cabinet.

9.33. Disassembly of iPod Docking Tub Assembly

- Follow the (Step 1) to (Step 7) of Item 9.3.
- Follow the (Step 1) to (Step 8) of Item 9.4.
- Follow the (Step 1) to (Step 7) of Item 9.5.1.
- Follow the (Step 1) to (Step 3) of Item 9.8.1.
- Follow the (Step 1) to (Step 3) of Item 9.9.
- Follow the (Step 1) to (Step 9) of Item 9.10.
- Follow the (Step 1) to (Step 8) of Item 9.18.
- Follow the (Step 1) to (Step 12) of Item 9.19.
- Follow the (Step 1) to (Step 17) of Item 9.24.
- Follow the (Step 1) to (Step 3) of Item 9.25.
- Follow the (Step 3) of item 9.28.

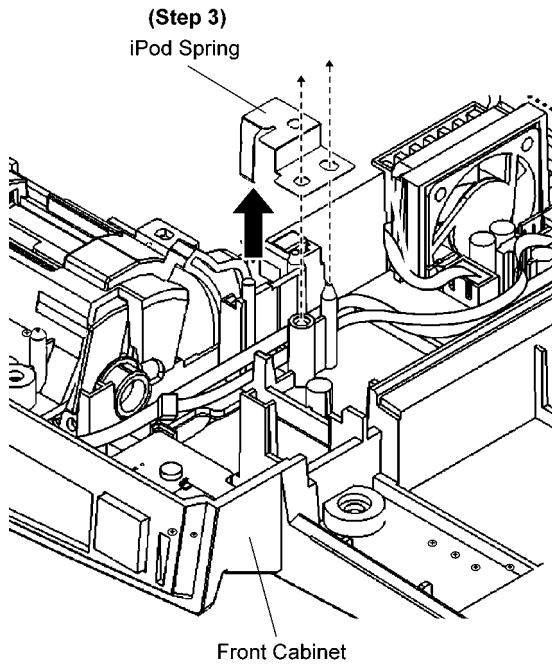


Step 1 Press the push lever to release it.

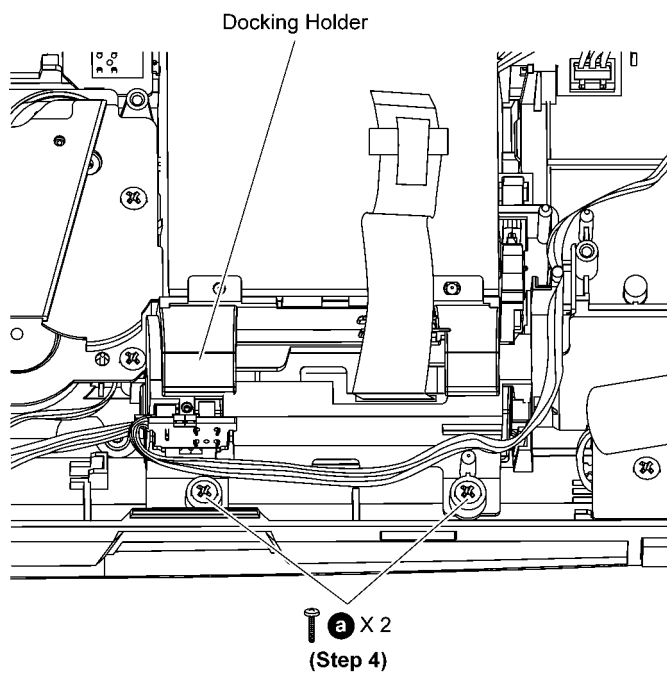


Step 2 Release catch to remove push lever.

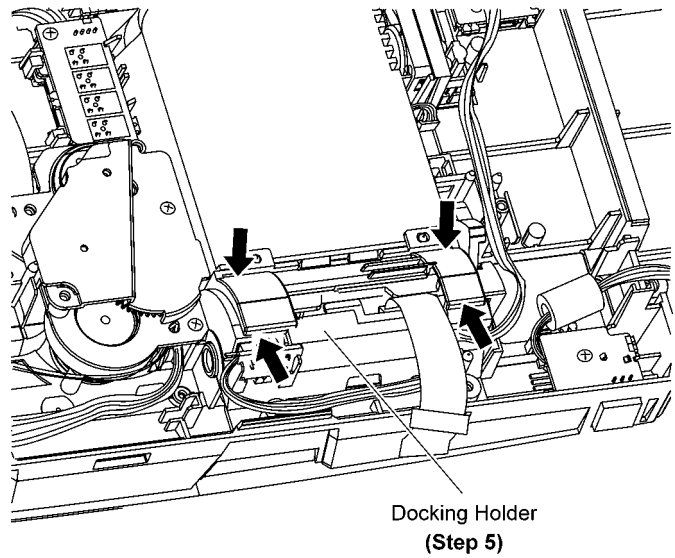
Caution: Apply gentle force during disassembling.



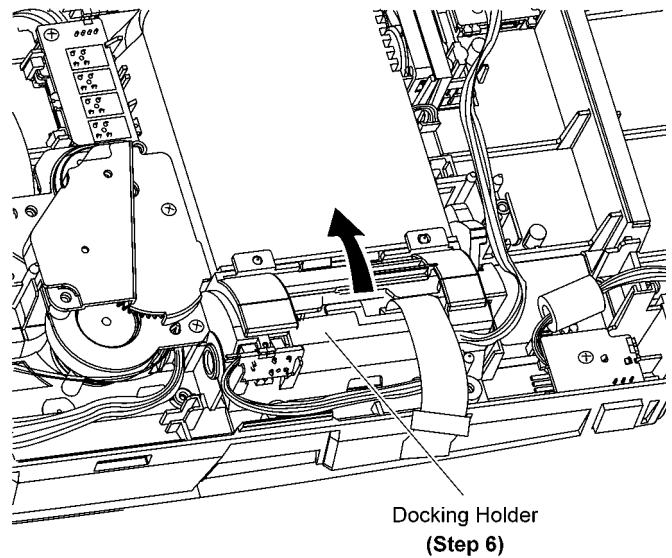
Step 3 Remove iPod Spring.
Caution: Keep the iPod Spring in safe place, avoid denting it. Place it back during assembling.



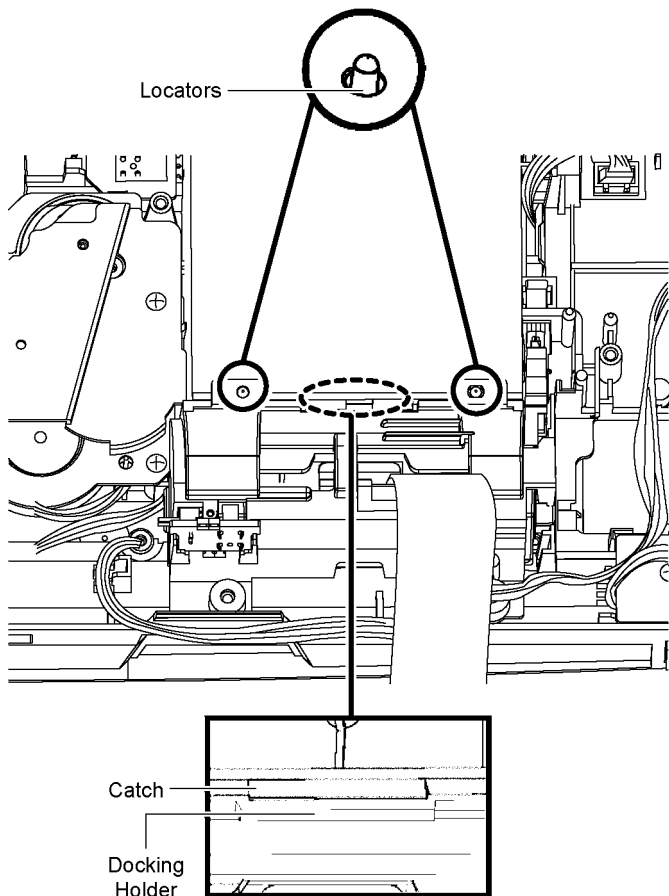
Step 4 Remove 2 screws.



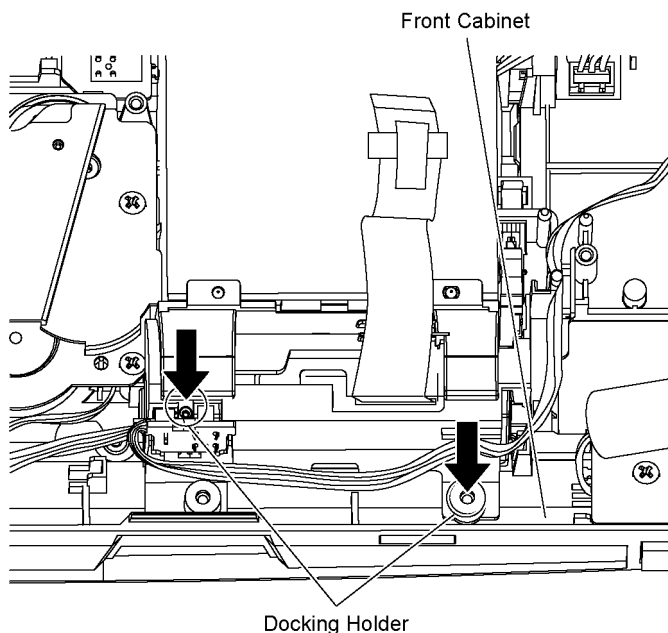
Step 5 Press and hold the docking holder with gentle force as arrow shown.



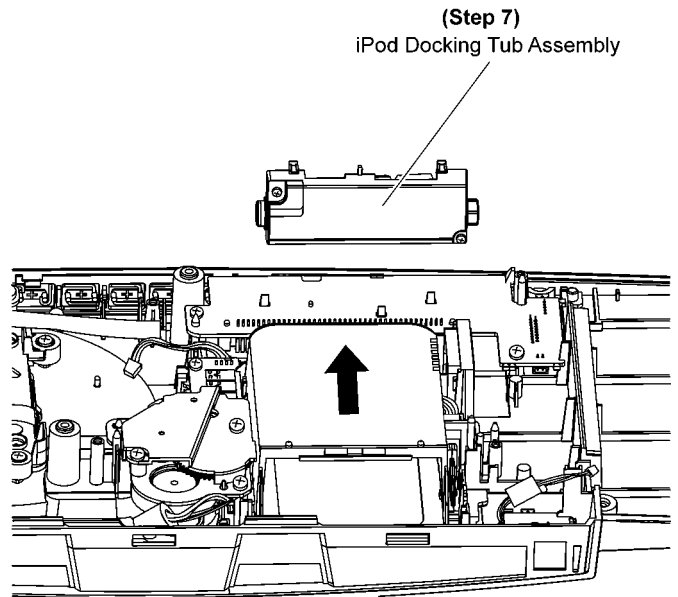
Step 6 Remove the docking holder.



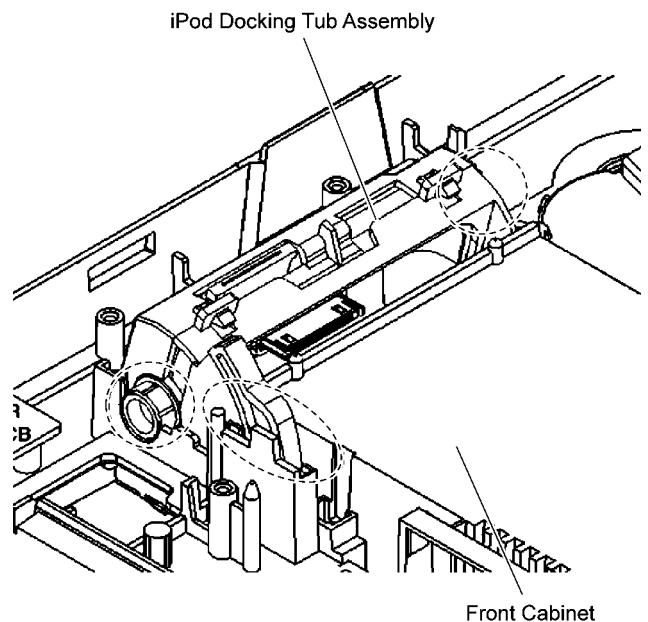
Caution 1: During assembling of the docking holder, place the docking holder underneath the catch and use the 2 locators as guide to ensure that the docking holder is properly located.



Caution 2: Ensure that the docking holder is seated properly on front cabinet.



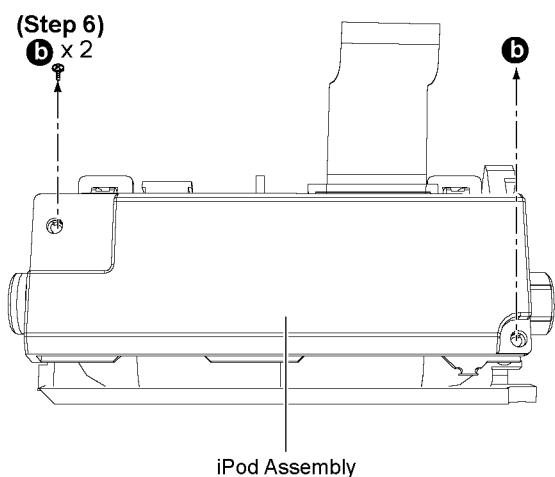
Step 7 Remove iPod Docking Tub Assembly.



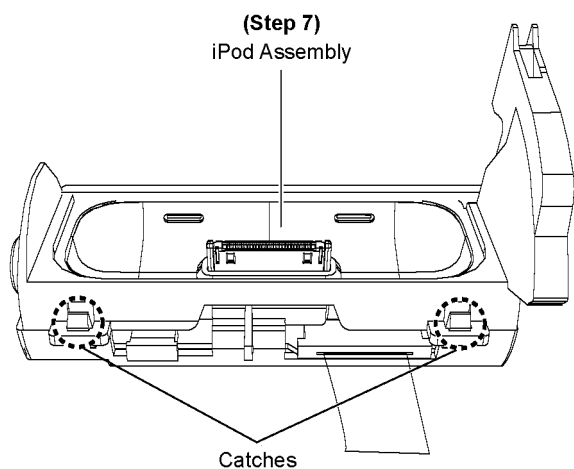
Caution: During assembling, ensure that iPod Docking Tube Assembly is seated onto front cabinet properly.

9.34. Disassembly of iPod P.C.B.

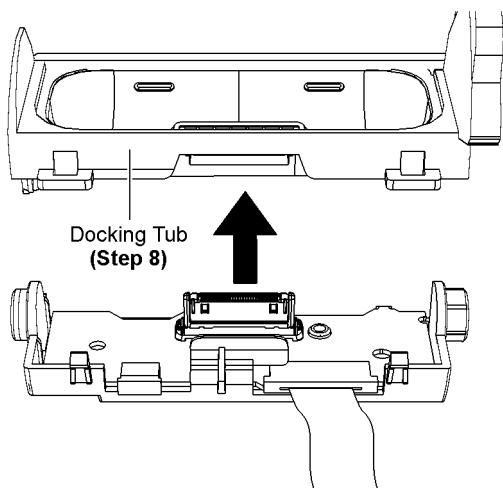
- Follow the (Step 1) to (Step 7) of Item 9.3.
- Follow the (Step 1) to (Step 8) of Item 9.4.
- Follow the (Step 1) to (Step 7) of Item 9.5.1.
- Follow the (Step 1) to (Step 3) of Item 9.8.1.
- Follow the (Step 1) to (Step 3) of Item 9.9.
- Follow the (Step 1) to (Step 9) of Item 9.10.
- Follow the (Step 1) to (Step 8) of Item 9.18.
- Follow the (Step 1) to (Step 12) of Item 9.19.
- Follow the (Step 1) to (Step 17) of Item 9.24.
- Follow the (Step 1) to (Step 3) of Item 9.25.
- Follow the (Step 3) of Item 9.28.
- Follow the (Step 1) to (Step 7) of Item 9.33.



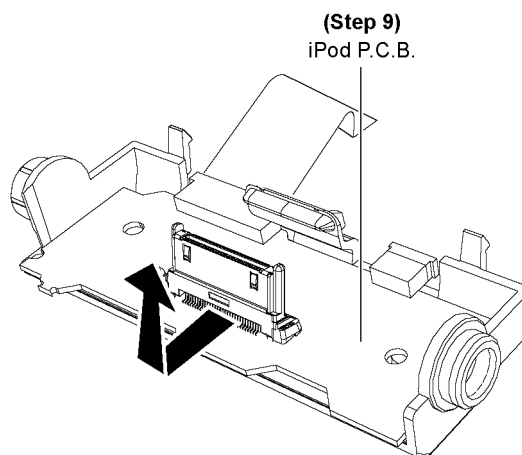
Step 1 Remove 2 screws.



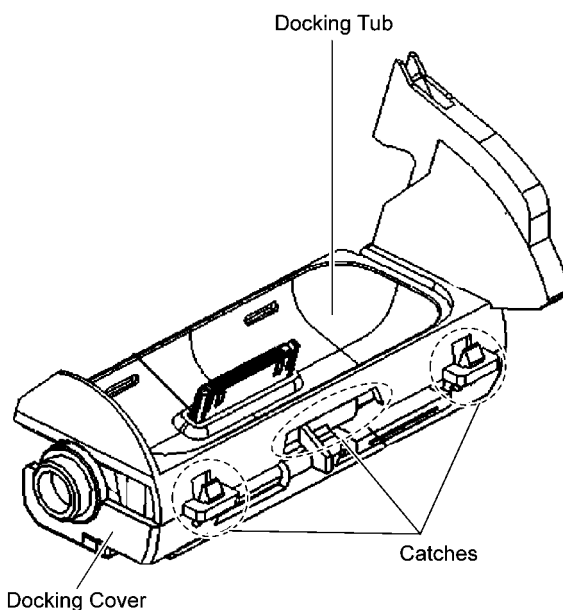
Step 2 Release the 2 catches on iPod Assembly.



Step 3 Remove the docking tub.



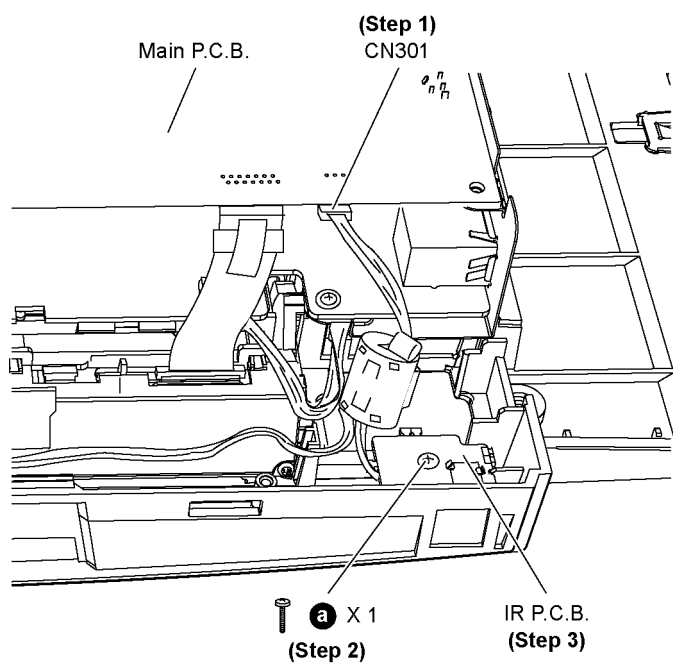
Step 9 Remove the iPod P.C.B. as arrow shown.



Caution: During assembling, ensure that Docking Tub is fully caught onto Docking Cover.

9.35. Disassembly of IR P.C.B.

- Follow the (Step 1) to (Step 8) of Item 9.4.
- Follow the (Step 1) to (Step 4) of Item 9.5.1
- Follow the (Step 1) to (Step 6) of Item 9.6.
- Follow the (Step 1) to (Step 13) of Item 9.7.



Step 1 Detach 3P wire at the connector (CN301) on Main P.C.B..

Step 2 Remove 1 screw.

Step 3 Remove IR P.C.B..

10 Service Position

10.1. Checking & repairing of Main P.C.B.

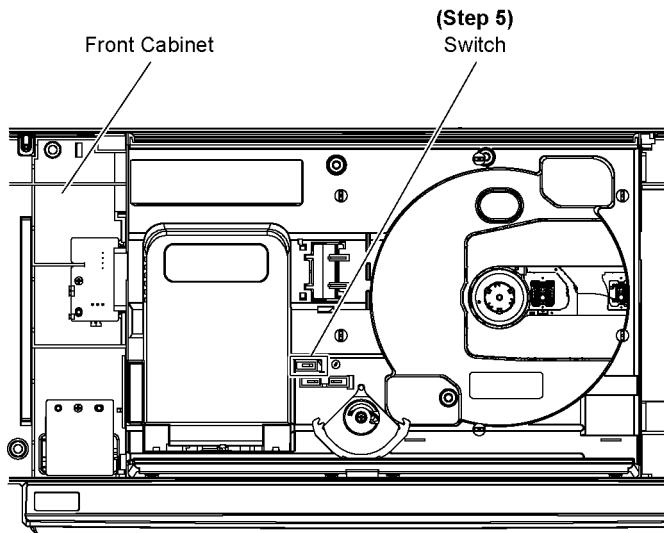
- Checking & repairing side A of Main P.C.B.

Step 1 Remove Door Assembly.

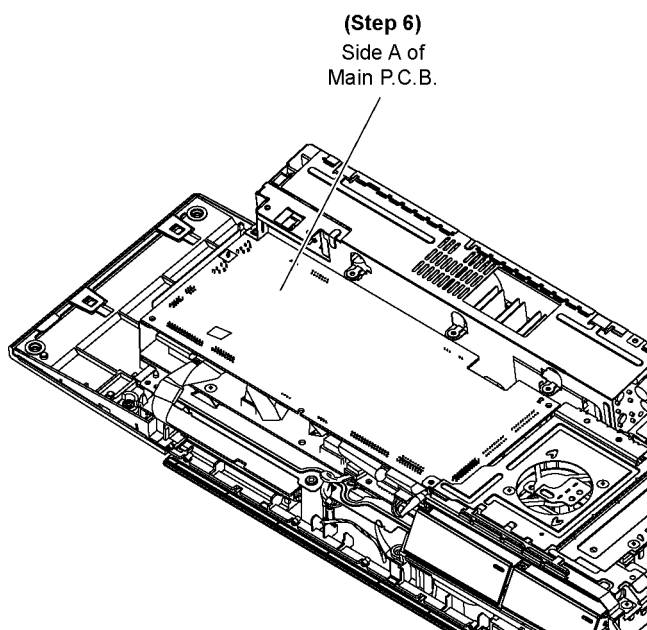
Step 2 Remove Left & Right Ornament.

Step 3 Remove rear cabinet.

Step 4 Remove rear shield unit.

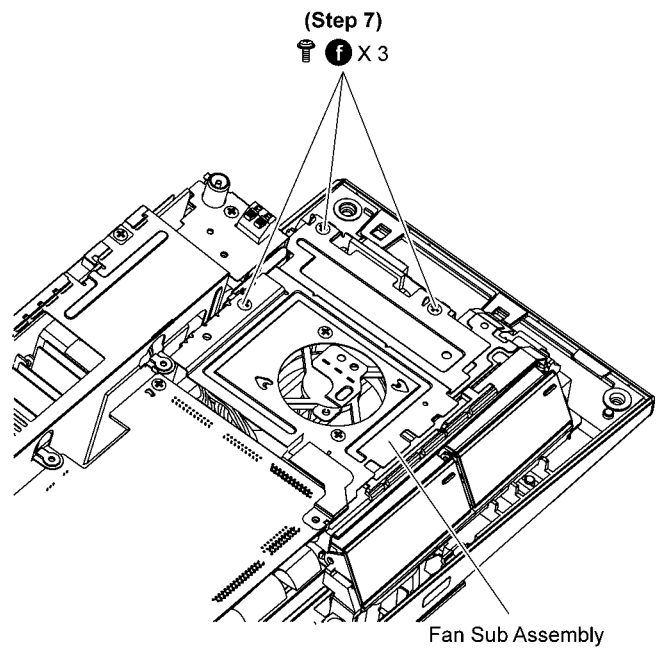


Step 5 Use the tape to keep switch depressed.

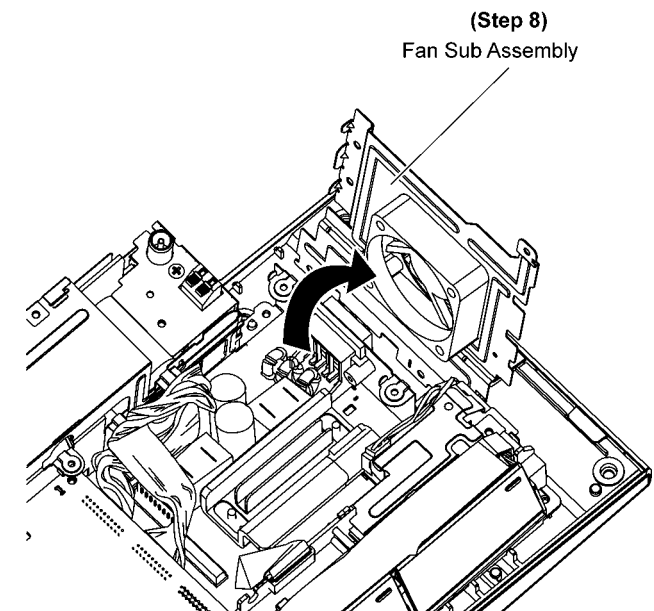


Step 6 Check & service side A of Main P.C.B..

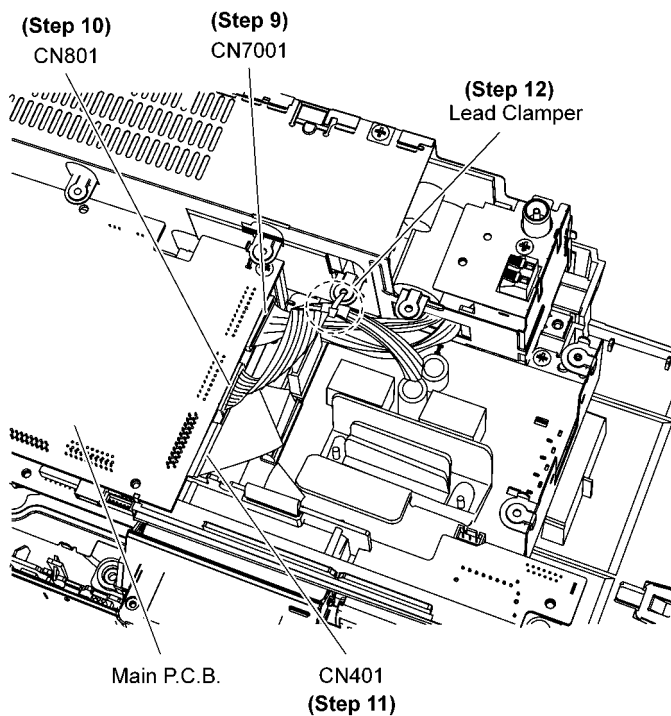
- Checking & repairing side B of Main P.C.B.



Step 7 Remove 3 screws at Fan Sub Assembly.



Step 8 Lift up Fan Sub Assembly.

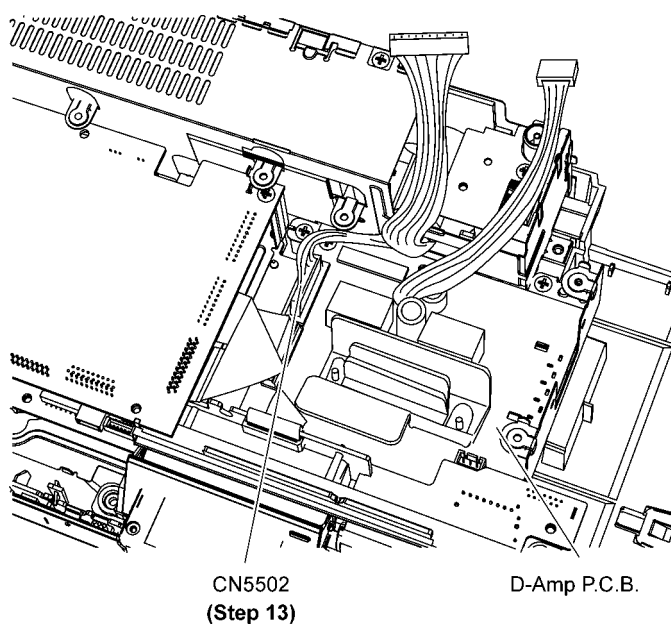


Step 9 Detach 11P wire at the connector (CN7001) on Main P.C.B..

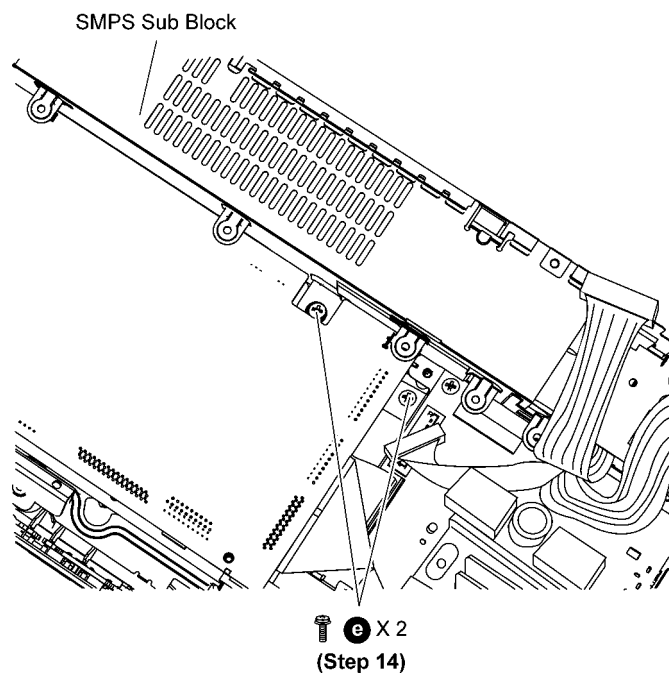
Step 10 Detach 10P wire at the connector (CN801) on Main P.C.B..

Step 11 Detach 22P FFC at the connector (CN401) on Main P.C.B..

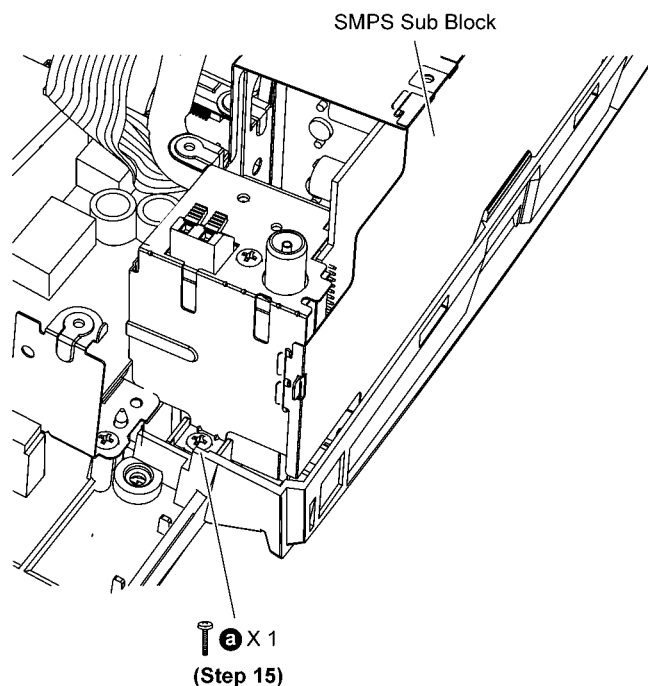
Step 12 Cut the Lead Clamper.



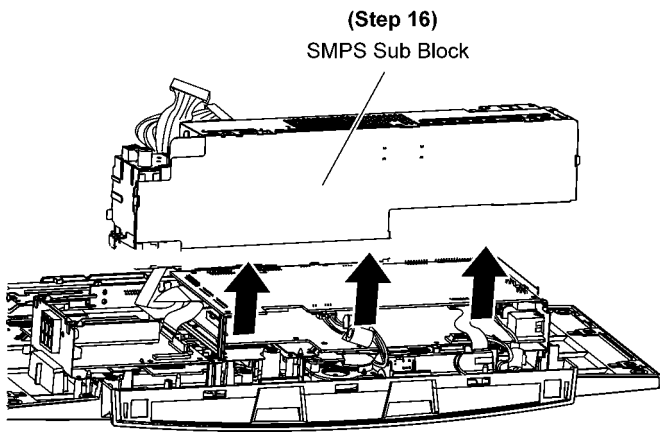
Step 13 Detach 8P wire at the connector (CN5502) on D-Amp P.C.B..



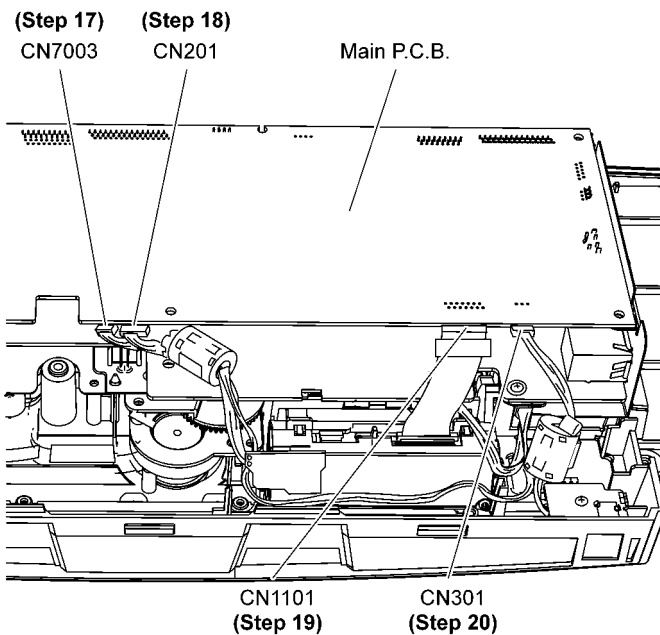
Step 14 Remove 2 screws at SMPS Sub Block.



Step 15 Remove 1 screw at SMPS Sub Block.



Step 16 Remove SMPS Sub Block.

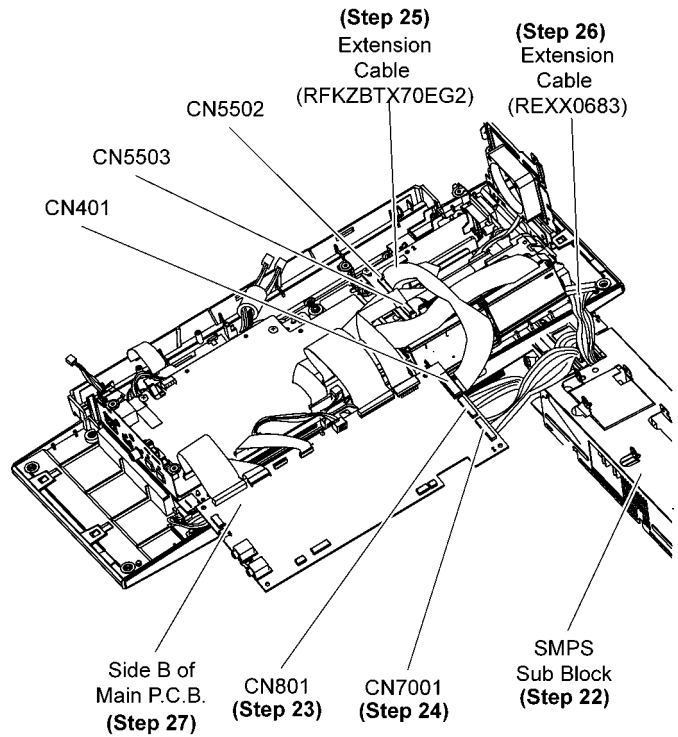


Step 17 Detach 2P wire at the connector (CN7003) on Main P.C.B..

Step 18 Detach 4P wire at the connector (CN201) on Main P.C.B..

Step 19 Detach 14P FFC at the connector (CN1101) on Main P.C.B..

Step 20 Detach 3P wire at the connector (CN301) on Main P.C.B..



Step 21 Flip the Main P.C.B. according to diagram shown..

Step 22 Position SMPS Sub Block according to diagram shown.

Step 23 Connect 10P wire to the connector (CN801) on Main P.C.B..

Step 24 Connect 11P wire to the connector (CN7001) on Main P.C.B..

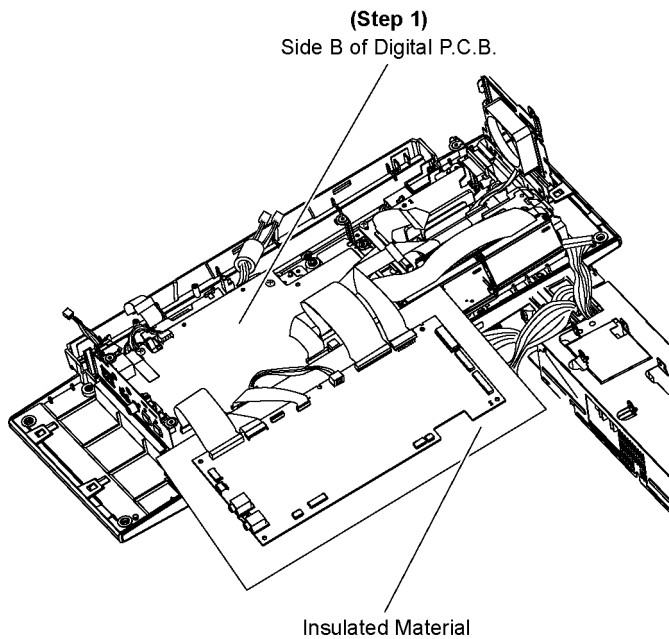
Step 25 Attach original cable with extension cable (RFKZBTX70EG2)(22P FFC from CN401 to CN5503).

Step 26 Attach original cable with extension cable (REXX0683) (8P wire from H5801 to CN5502).

Step 27 Proceed to check & repair of side B of Main P.C.B..

10.2. Checking & repairing of Digital P.C.B.

- Checking & repairing side B of Digital P.C.B.
- Follow the (Step 1) to (Step 26) of Item 10.1.

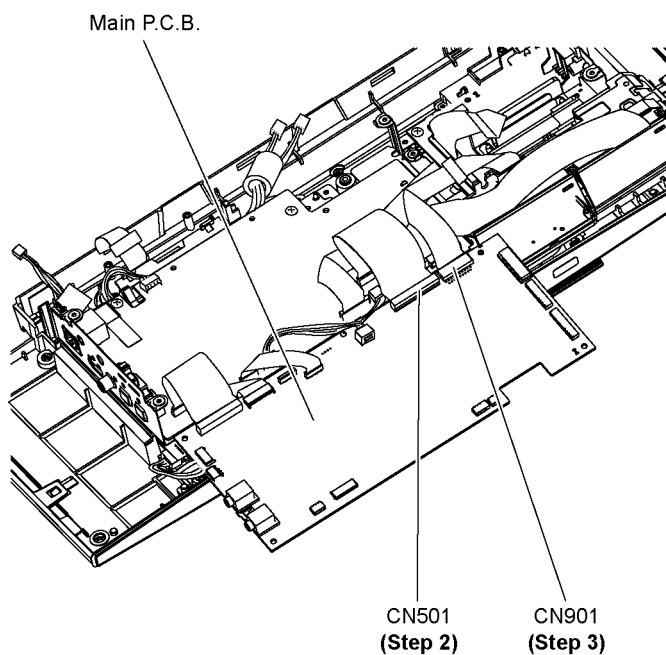


Step 1 Proceed to check and repair side B of Digital P.C.B..
Caution: Insulated material is required to insulate Main P.C.B. from other parts.

• Checking & repairing side A of Digital P.C.B.

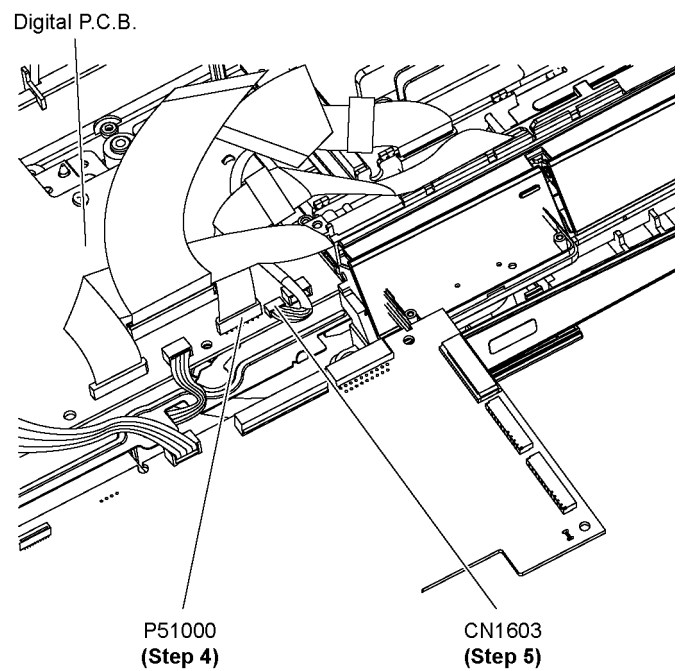
- Follow the (Step 1) to (Step 26) of Item 10.1.

Step 1 Remove fan Sub Assembly.



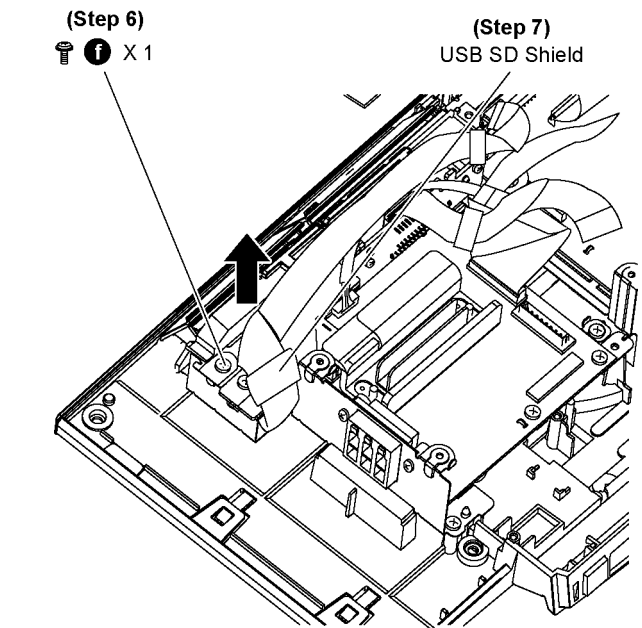
Step 2 Detach 30P FFC at the connector (CN501) on Main P.C.B..

Step 3 Detach 19P FFC at the connector (CN901) on Main P.C.B..



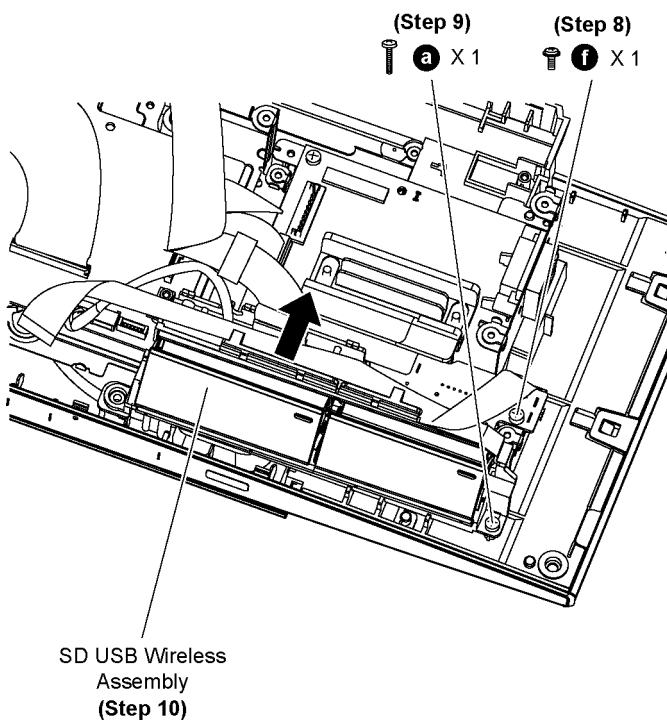
Step 4 Detach 13P FFC at the connector (P51000) on Digital P.C.B..

Step 5 Detach 5P wire at the connector (CN1603) on Digital P.C.B..



Step 6 Remove 1 screw.

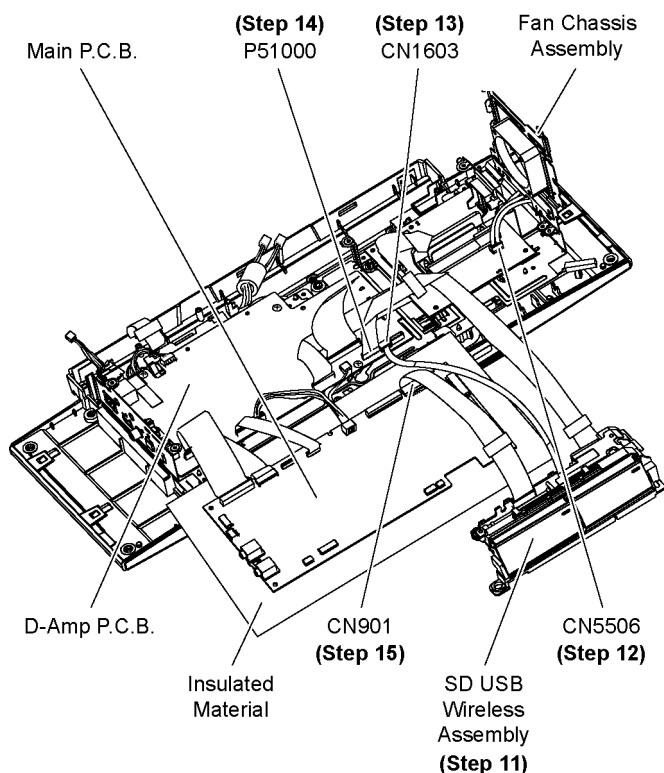
Step 7 Remove USB SD shield.



Step 8 Remove 1 screw on SD USB P.C.B..

Step 9 Remove 1 screw at SD USB wireless assembly.

Step 10 Remove SD USB wireless assembly.



Step 11 Position SD USB wireless assembly as diagram shown.

Step 12 Connect 3P wire to connector (CN5506) on D-Amp P.C.B..

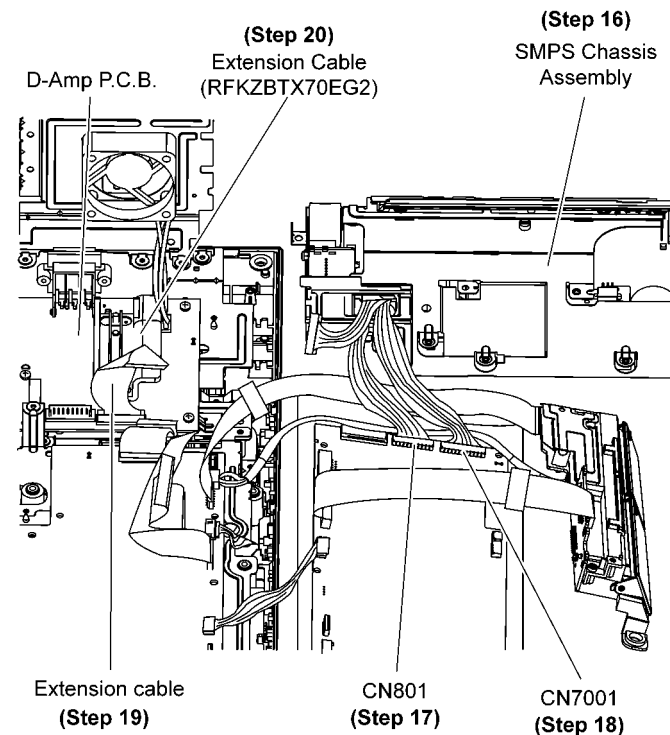
Step 13 Connect 5P wire to connector (CN1603) on Digital P.C.B..

Step 14 Connect 13P FFC to connector (P51000) on Digital P.C.B..

Step 15 Connect 19P FFC to connector (CN901) on Main

P.C.B..

Caution: Insulated material is required to insulate Main P.C.B. from other parts.



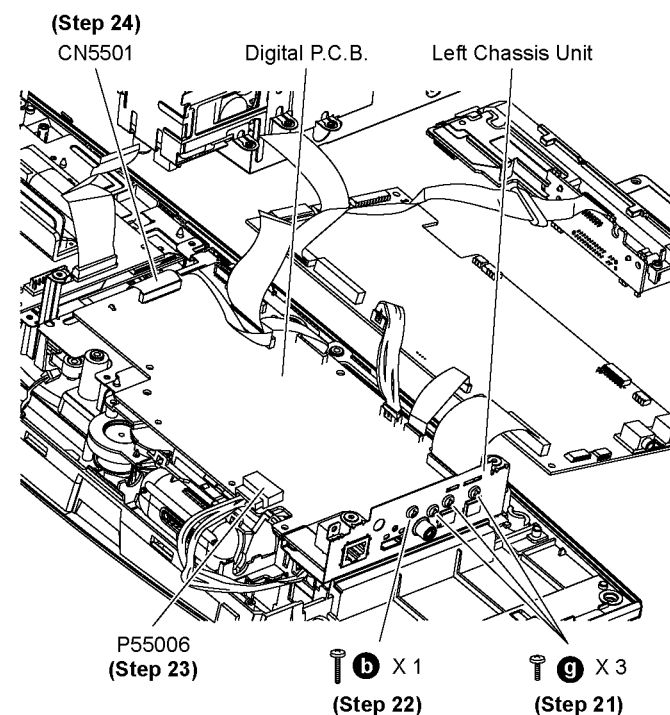
Step 16 Position SMPS Sub Block according to diagram shown.

Step 17 Connect 10P wire to connector (CN801) on Main P.C.B..

Step 18 Connect 11P wire to connector (CN7001) on Main P.C.B..

Step 19 Connect 8P extension cable (REXX0683) (from H5801 to CN5502).

Step 20 Connect 22P extension cable (RFKZBTX70EG2) (from CN5503 to CN401).

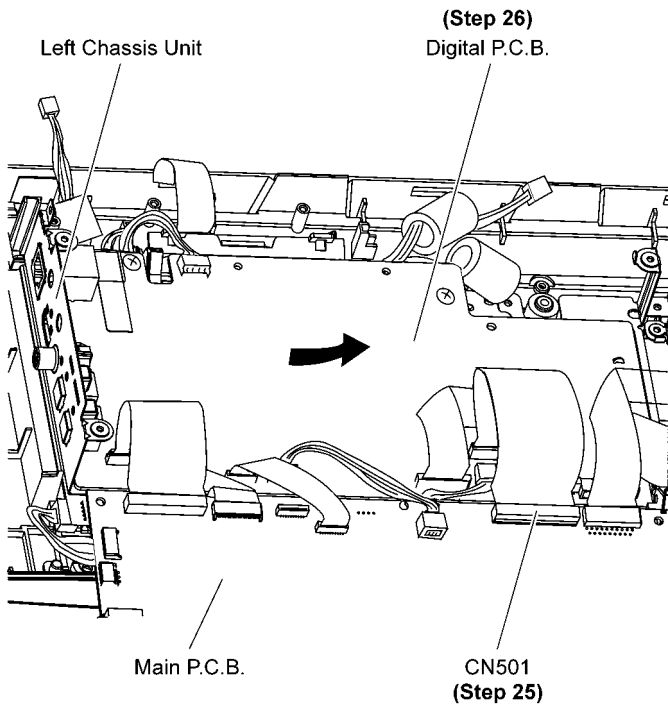


Step 21 Remove 3 screws.

Step 22 Remove 1 screw.

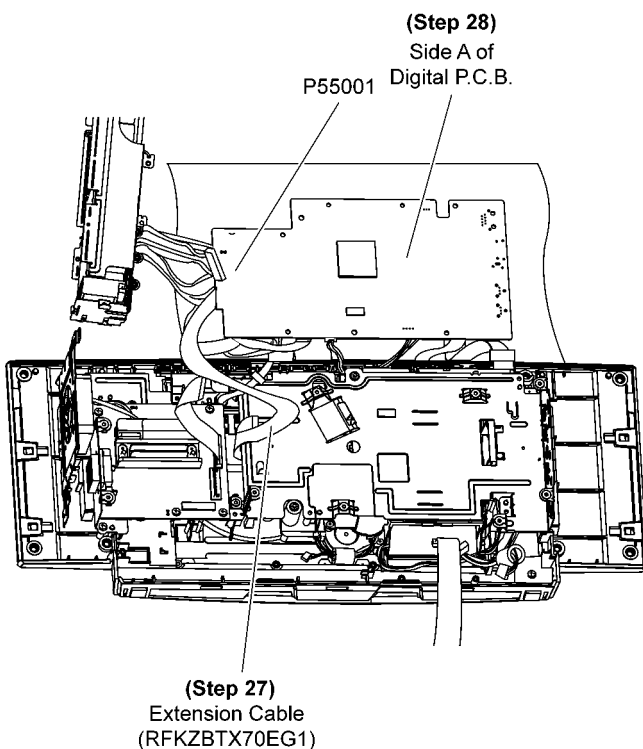
Step 23 Detach 4P wire at the connector (P55006) on Digital P.C.B..

Step 24 Detach 45P FFC at the connector (P55001) on Digital P.C.B..



Step 25 Connect 30P FFC to connector (CN501) on Main P.C.B..

Step 26 Slightly detach Digital P.C.B. from Left Chassis Unit according to diagram shown.



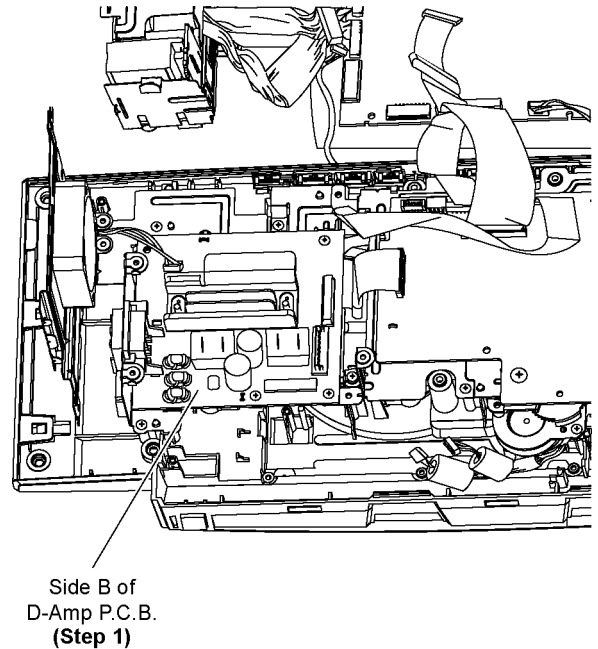
Step 27 Attach original cable with extension cable (RFKZBTX70EG1) (45P cable from P55901 to P55001).

Step 28 Proceed to check and repair side A of Digital P.C.B..

10.3. Checking & repairing of D-Amp P.C.B.

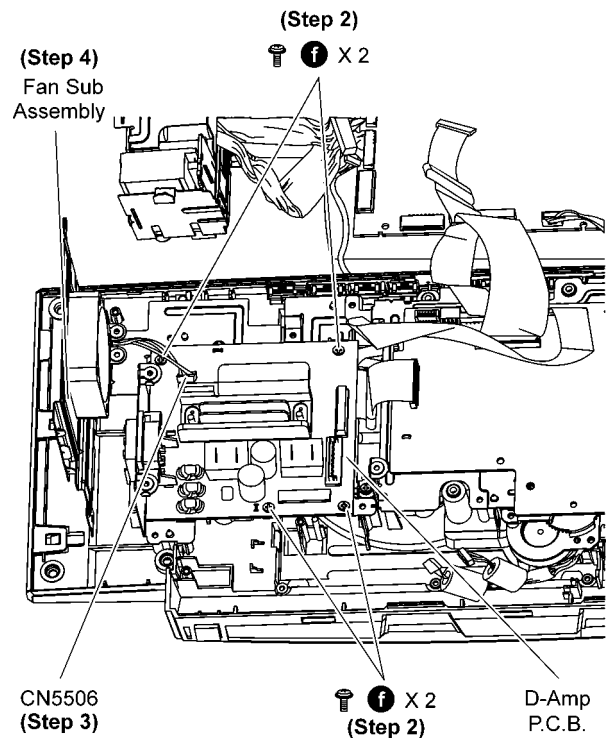
• Checking & repairing side B of D-Amp P.C.B.

- Follow the (Step 1) to (Step 26) of Item 10.1.
- Follow the (Step 1) to (Step 20) of Item 10.2.2.



Step 1 Proceed to check and repair side B of D-Amp P.C.B..

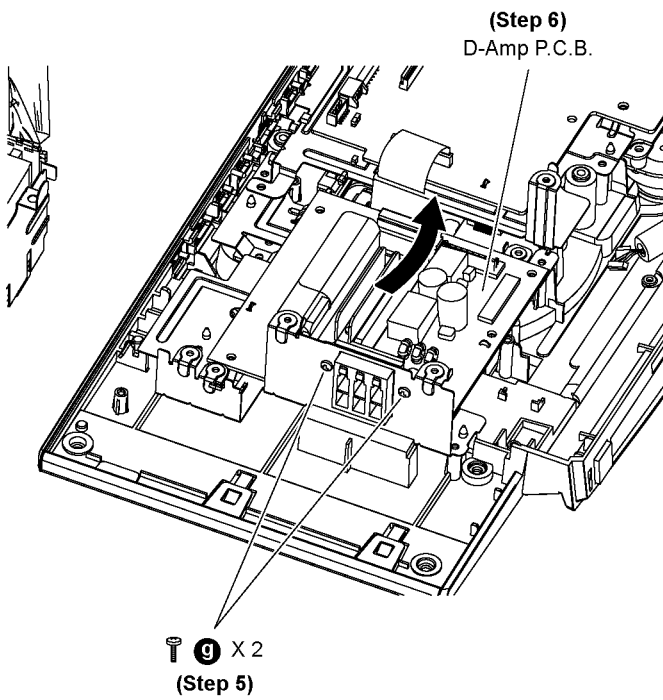
• Checking & repairing side A of D-Amp P.C.B.



Step 2 Remove 4 screws.

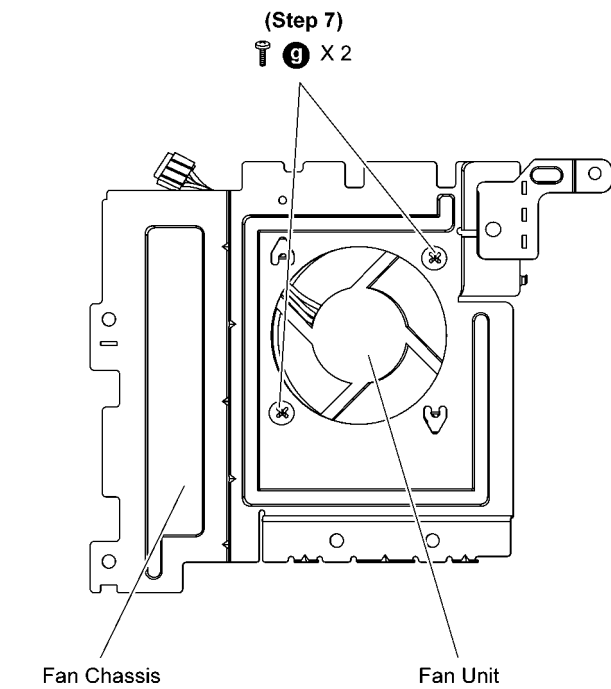
Step 3 Detach 3P wire at the connector (CN5506) on D-Amp P.C.B..

Step 4 Remove fan sub assembly.

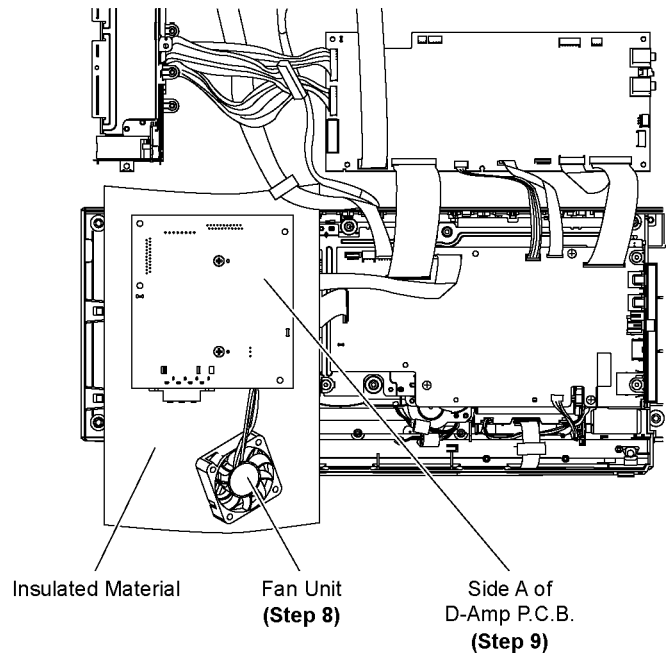


Step 5 Remove 2 screws.

Step 6 Remove D-Amp P.C.B..



Step 7 Remove 2 screws to remove fan unit.



Step 8 Connect fan unit to D-Amp P.C.B..

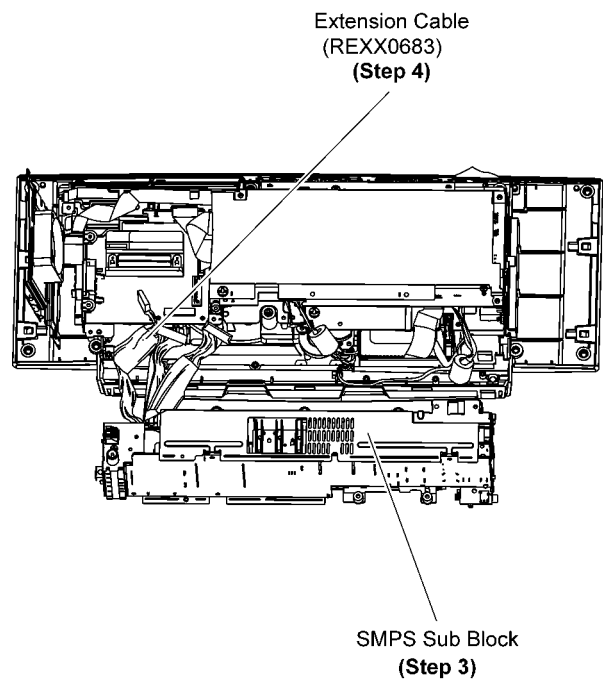
Step 9 Proceed to check and repair side A of D-Amp P.C.B..

Caution: Insulated material is required to insulate D-Amp P.C.B. from other parts.

10.4. Checking & repairing of SMPS P.C.B.

Step 1 Lift up fan sub assembly.

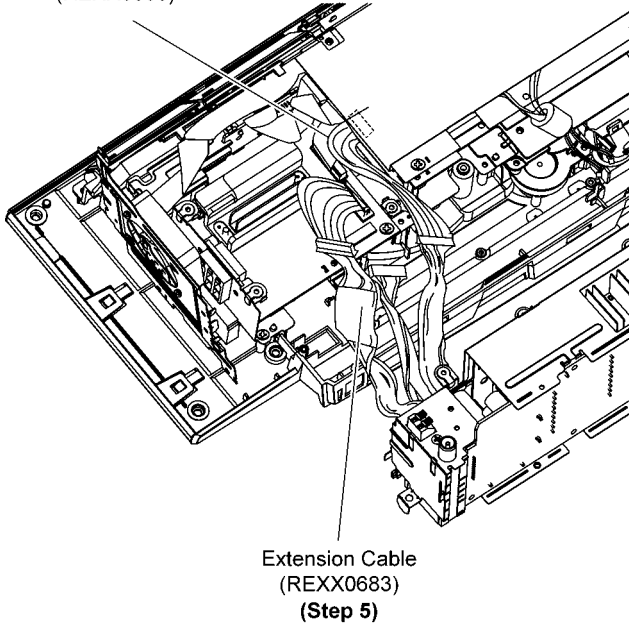
Step 2 Remove SMPS sub block.



Step 3 Position SMPS sub block according to diagram shown.

Step 4 Connect extension cable (REXX0683) (8P from H5801 to CN5502).

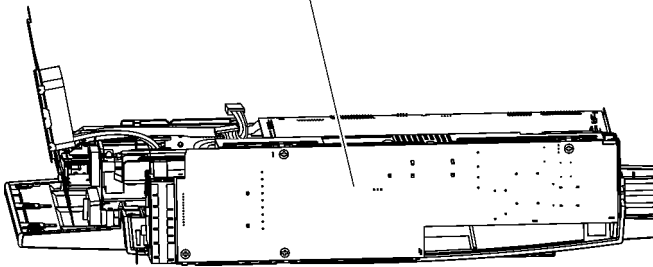
(Step 6)
Extension Cable
(REXX0680)



Step 5 Connect extension cable (REXX0680) (11P from CN5802 to CN7001).

Step 6 Connect extension cable (REXX0683) (8P from H5801 to CN5502).

(Step 7)
SMPS P.C.B.



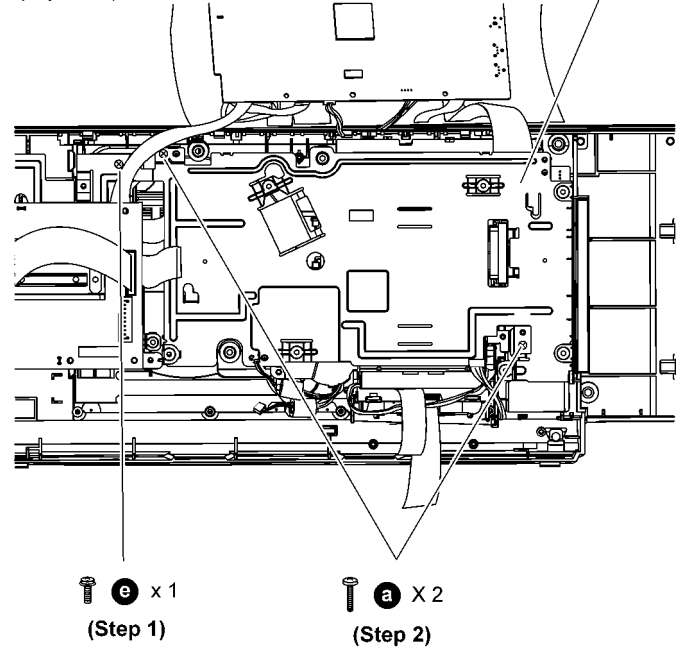
Step 7 Proceed to check and service SMPS P.C.B..

10.5. Checking & repairing of FL P.C.B.

- Follow the (Step 1) to (Step 25) of Item 10.1.
- Follow the (Step 1) to (Step 27) of Item 10.2.2.

(Step 3)
Left Chassis Unit

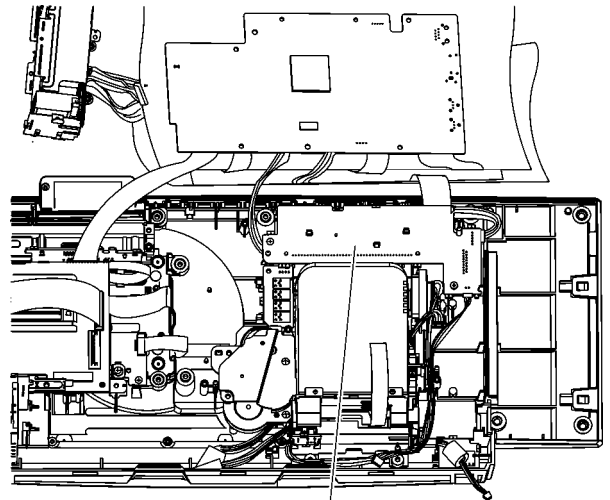
(Top View)



Step 1 Remove 1 screw.

Step 2 Remove 2 screws.

Step 3 Remove Left Chassis Unit.



Step 4 Proceed to check and service FL P.C.B..

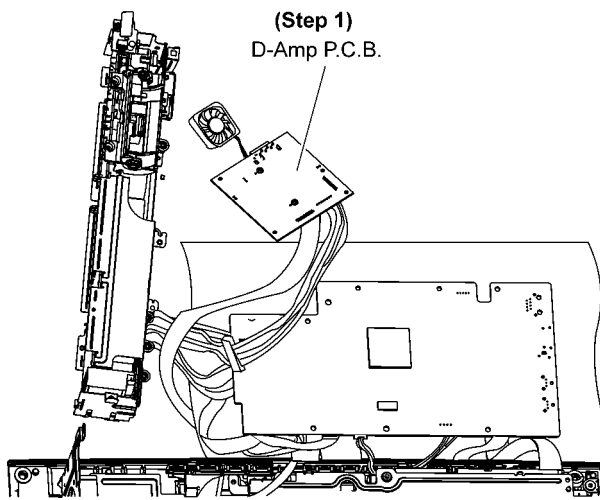
10.6. Checking & repairing of BD Mechanism

- Follow the (Step 1) to (Step 25) of Item 10.1.
- Follow the (Step 1) to (Step 27) of Item 10.2.2.
- Follow the (Step 1) to (Step 7) of Item 10.3.

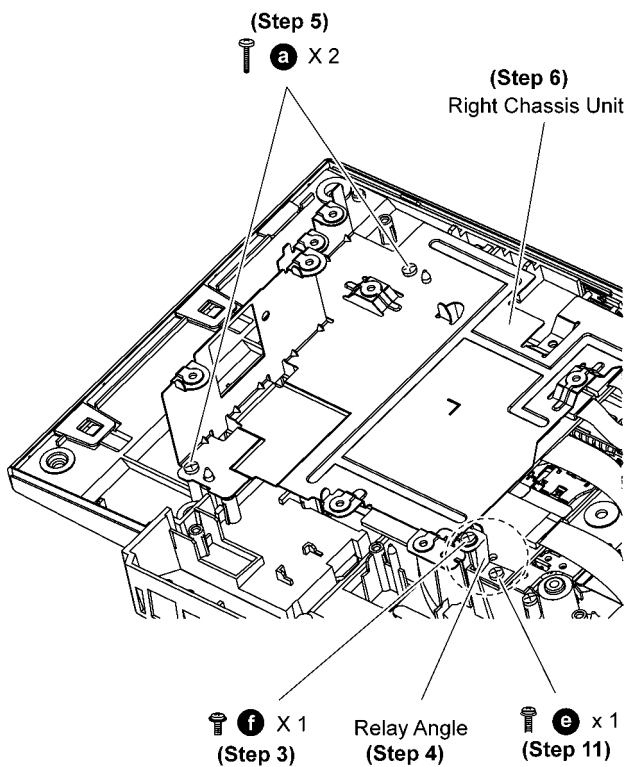
Caution 1: BD Mechanism must seated properly on the middle chassis before mounting to front cabinet.

Caution 2: Avoid damaging FFC cables, especially those connect to Relay P.C.B..

Caution 3: Do not touch the Lens.



Step 1 Position D-Amp P.C.B. as diagram shown.



Step 2 Remove 1 screw at relay angle.

Step 3 Remove 1 screw at relay angle.

Step 4 Remove relay angle.

Step 5 Remove 2 screws at right chassis unit.

Step 6 Remove right chassis unit.

Step 7 Proceed to check and service BD Mechanism .

11 Voltage & Waveform Chart

Note:

- Indication Voltage Values are in standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard.
Therefore, there may exist some errors in voltage values, depending on the internal impedance of the DC circuit tester.
- Circuit voltage and waveform described herein shall be regarded as reference information when probing defect point because it may differ from actual measuring value due to difference of Measuring instrument and its measuring condition and product itself.

11.1. Digital P.C.B. (1/5)

REF NO.	IC51003																			
MODE	1	2	3	4	5															
CD PLAY	0	0	0	0	3.3															
STANDBY	0	0	0	3.3	3.3															

REF NO.	IC51004																			
MODE	1	2	3	4	5															
CD PLAY	0	1.6	0	1.6	3.3															
STANDBY	0	1.6	0	1.6	3.3															

REF NO.	IC51301																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	0	0	0	0	0	3.2	3.2	3.2	0	0	3.2	0	0	0	0	0	3.3	0	0
STANDBY	0	0	0	0	0	0	3.2	3.2	3.2	0	0	3.2	0	0	0	0	0	3.3	0	0

REF NO.	IC51301																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	0	0	0	0	0	0	0	0	3.3	3.3	3.3	3.3	0	0	0	0	0	0	0	0
STANDBY	0	0	0	0	0	0	0	0	3.3	3.2	3.3	3.3	0	0	0	0	0	0	0	0

REF NO.	IC51301																			
MODE	41	42	43	44	45	46	47	48												
CD PLAY	0	0	0	0	0	0	0	0												
STANDBY	0	0	0	0	0	0	0	0												

REF NO.	IC51601																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	0	0	3.3	0	3.3	3.3	0	3.3												
STANDBY	0	0	3.3	0	3.3	3.3	0	3.3												

REF NO.	IC51602																			
MODE	1	2	3	4	5															
CD PLAY	5.2	3.3	5.1	1.1	0															
STANDBY	5.2	3.3	5.1	1.1	0															

REF NO.	IC51603																			
MODE	1	2	3	4	5															
CD PLAY	3.3	0	3.3	5.1	5.1															
STANDBY	3.3	0	3.3	5.1	5.1															

REF NO.	IC53003																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	5.1	0	0	2.0	3.3	0.3	0	2.0	2.1	5.1	2.0	0	2.0	3.3	2.0	5.1	2.0	2.0	0	2.1
STANDBY	5.1	0	0	2.0	3.3	0.3	0	2.0	2.1	5.1	2.0	0	2.0	3.3	2.0	5.1	2.0	2.0	0	2.1

REF NO.	IC53003																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32								
CD PLAY	2.1	0	2.0	2.0	0	1.9	1.9	0	1.9	2.1	0	2.0								
STANDBY	2.1	0	2.0	2.0	0	1.6	1.6	0	1.6	1.7	0	2.0								

SA-BTX68EF, SA-BTX70EB/EG DIGITAL P.C.B.

11.2. Digital P.C.B. (2/5)

REF NO.	IC54001																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	2.7	2.6	2.6	-7.0	2.6	2.6	2.7	0												
STANDBY	2.7	2.6	2.6	-7.0	2.6	2.6	2.7	0												
REF NO.	IC54002																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	2.6	2.6	2.6	-7.0	2.6	2.6	2.6	7.0												
STANDBY	2.6	2.6	2.6	-7.0	2.6	2.6	2.6	7.0												
REF NO.	IC54005																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	2.6	2.6	2.6	-7.0	2.6	2.6	2.6	7.0												
STANDBY	2.6	2.6	2.6	-7.0	2.6	2.6	2.6	7.0												
REF NO.	IC54006																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	3.3	3.3	3.3	1.6	0	1.7	1.7	3.3	0	0.1	1.3	1.3	3.3	2.5	2.5	5.2	0	2.6	2.5
STANDBY	0	3.3	3.3	3.3	1.6	0	1.7	1.7	3.3	0	0.1	0	0	0.1	2.6	2.5	5.2	0	2.6	2.5
REF NO.	IC54006																			
MODE	21	22	23	24	25	26	27	28												
CD PLAY	2.5	2.5	5.2	0	2.6	2.6	2.6	3.3												
STANDBY	2.5	2.5	5.2	0	2.6	2.6	2.6	0												
REF NO.	IC54007																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	0.1	1.3	2.1	0	1.3	3.3	0	3.3												
STANDBY	0.1	0	3.3	0	0	3.3	0	3.3												
REF NO.	IC54012																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	2.7	2.6	2.6	-7.1	2.6	2.6	2.7	6.8												
STANDBY	2.7	2.6	2.6	-7.1	2.6	2.6	2.7	6.9												
REF NO.	IC54017																			
MODE	1	2	3	4	5															
CD PLAY	1.3	0	5.1	5.1	3.3															
STANDBY	1.3	0	5.1	5.1	3.3															
REF NO.	IC54900																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
CD PLAY	2.4	2.4	0	2.4	0	4.9	3.3	0	1.2	1.7	1.6	1.7	3.3	0	0	0				
STANDBY	2.4	2.4	0	2.4	0	4.9	3.3	0	1.2	1.7	1.6	1.7	3.3	0	0	0				
REF NO.	IC55001																			
MODE	1	2	3	4	5	6	7													
CD PLAY	5.2	1.1	5.2	0	0.5	3.3	1.2													
STANDBY	5.2	1.1	5.2	0	0.5	3.3	1.2													

SA-BTX68EF, SA-BTX70EB/EG DIGITAL P.C.B.

11.3. Digital P.C.B. (3/5)

REF NO.	IC55002																			
MODE	1	2	3	4	5															
CD PLAY	11.5	0	0.5	0.6	0															
STANDBY	11.5	0	0.5	0.6	0															
REF NO.	IC55005																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	11.5	0	0.9	0	1.0	0	11.5	0.9	12	16.5	0	1.6	1.5	1.7	0	1.6	0	0	1.6	1.5
STANDBY	11.5	0	0	0	0.9	0	11.5	0.8	0	16.5	0	1.7	1.6	1.7	0	1.6	0	0	1.5	1.5
REF NO.	IC55005																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	1.7	1.6	11.5	0	0	5.7	5.8	0	5.8	5.6	5.9	5.7	11.5	1.6	1.7	1.6	1.7	1.5	5.2	4.9
STANDBY	1.7	1.6	11.5	0	0	5.7	5.7	0	5.8	5.6	5.9	5.6	11.5	1.6	1.7	1.6	1.7	1.5	5.2	4.8
REF NO.	IC55005																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56				
CD PLAY	2.5	0	2.5	0	11.5	11.5	5.4	5.4	0	0	0	0	5.4	0	5.4	0				
STANDBY	2.5	0	2.5	0	11.5	11.5	5.4	5.4	0	0	0	0	5.4	0	5.4	0				
REF NO.	IC56001																			
MODE	1	2	3	4	5															
CD PLAY	3.3	0	1.3	5.0	11.3															
STANDBY	3.3	0	1.3	5.0	11.3															
REF NO.	IC56034																			
MODE	1	2	3	4	5															
CD PLAY	5.2	3.3	3.3	1.2	0															
STANDBY	5.2	3.3	3.3	1.2	0															
REF NO.	IC56035																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	1.2	0	0	0	3.3	0	0	3.3												
STANDBY	1.2	0	0	0	3.3	0	0	3.3												
REF NO.	IC56036																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	0	0	0	0	0	0.5	0	3.3	3.3	0.5	0	1.1	3.2	0.9	0	0.9	3.2	0	0
STANDBY	0	0	0	0	0	0	1.0	0	2.8	3.3	0	0	0	3.3	0.9	0	0.9	3.2	0	0
REF NO.	IC56036																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	0.9	3.3	0	0	0.5	3.3	0	0	0	0	0	0	0	0	1.7	1.7	3.1	0	1.6	1.2
STANDBY	0.9	3.3	0	0	0.5	3.3	0	0	0	0	0	0	0	0	1.7	1.7	3.1	0	1.6	1.2
REF NO.	IC56036																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	1.6	0	3.3	0	0	0	0	0	1.2	2.3	0.9	3.3	0.9	1.0	0.9	1.0	0	1.2	0	0
STANDBY	1.6	0	3.3	0	0	0	0	0	1.2	2.3	0.9	3.3	0.9	1.0	0.9	1.0	0	1.2	0	0

SA-BTX68EF, SA-BTX70EB/EG DIGITAL P.C.B.

11.4. Digital P.C.B. (4/5)

REF NO.	IC56036																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD PLAY	3.3	0	3.3	0	3.3	3.3	0	0	0	0	0.1	0.6	2.9	1.2	1.0	1.0	1.0	1.0	0	0
STANDBY	3.3	0	3.3	0	3.1	3.3	0	0	0	0	0.1	0.6	2.9	1.2	1.0	1.0	1.0	1.0	0	0
REF NO.	IC56036																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
CD PLAY	0	3.3	3.3	3.1	1.2	0	0	0	0	0	0	0	0	0	3.3	1.6	0	0	0	0
STANDBY	0	3.3	3.3	3.1	1.2	0	0	0	0	0	0	0	0	0	3.3	1.6	0	0	0	0
REF NO.	IC56036																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
CD PLAY	1.2	0	0	3.3	0	3.3	0	1.2	0	3.3	3.3	3.3	3.2	0	3.3	3.2	1.2	0	5.0	5.0
STANDBY	1.2	0	0	3.3	0	3.3	0	1.2	0	3.3	3.3	3.3	3.2	0	3.3	3.2	1.2	0	5.0	5.0
REF NO.	IC56036																			
MODE	121	122	123	124	125	126	127	128												
CD PLAY	1.6	0	0	0	0	0	3.3	0												
STANDBY	1.6	0	0	0	0	0	3.3	0												
REF NO.	IC57000																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	0.3	0.3	3.3	0	0	0	0	3.3												
STANDBY	0.3	0.3	3.3	0	0	0	0	3.3												
REF NO.	IC58001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	2.5	1.9	0	0	1.2	1.8	1.3	1.2	0	0.7	1.3	2.5	0	2.5	2.8	6.3	1.7	1.3	4.3
STANDBY	0	2.5	1.9	0	0	1.2	0	1.3	1.2	0	0	1.3	2.5	0	2.5	2.8	6.3	1.7	1.3	4.3
REF NO.	IC58001																			
MODE	21	22	23	24	25	26	27	28	29	30										
CD PLAY	5.0	0	11.3	4.0	1.8	2.5	6.8	3.3	0	0										
STANDBY	5.0	0	11.3	4.0	1.8	2.5	6.8	0	0	0										
REF NO.	IC58003																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	7.4	11.4	3.3	0	0.8	1.3	3.3	2.0												
STANDBY	7.4	11.4	3.3	0	0.8	1.3	3.3	2.0												
REF NO.	IC59001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	0	0	1.9	0	1.9	3.3	0	3.3	3.3	3.3	3.3	0	1.7	1.6	0.7	0	3.3	1.6	0
STANDBY	0	0	0	1.9	0	1.9	3.3	3.3	3.3	3.3	3.3	3.3	0	1.7	1.6	0.7	0	3.3	1.6	0
REF NO.	IC59001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	0	0	0	0	0	0	3.3	3.3	0	1.6	0	3.3	1.6	0	0	0	0	0	0	0
STANDBY	0	0	0	0	0	0	3.3	3.3	0	1.6	0	3.3	1.6	0	0	0	0	0	0	0
SA-BTX68EF, SA-BTX70EB/EG DIGITAL P.C.B.																				

11.5. Digital P.C.B. (5/5)

REF NO.	IC59001																
MODE	41	42	43	44	45	46	47	48									
CD PLAY	0	3.3	3.3	0	0	0	3.3	0									
STANDBY	0	3.3	3.3	0	0	0	3.3	0									

REF NO.	Q56001				Q56002				Q56003				Q56004				Q56005			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0	3.3	0.1		3.3	3.2	3.3		0	3.3	0		0	0.1	0.6		3.6	5.2	4.1	
STANDBY	0	3.3	0.1		3.3	3.2	3.3		0	3.3	0		0	0.1	0.6		3.6	5.2	4.1	

REF NO.	Q56501				Q56502				Q56503				Q58002							
MODE	E	C	B		E	C	B		E	C	B		E	C	B					
CD PLAY	1.3	0	0.5		1.6	0	0.9		1.6	0	0.9		3.3	0	3.3					
STANDBY	1.3	0	0.5		1.6	0	0.9		1.6	0	0.9		3.3	0	3.3					

REF NO.	Q58004									Q58005										
MODE	1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8			
CD PLAY	1.3	1.8	0	4.3	1.3	1.3	11.3	11.3		1.9	2.5	0	4.0	1.9	1.9	11.3	11.3			
STANDBY	1.3	1.8	0	4.3	1.3	1.3	11.3	11.3		1.9	2.5	0	4.0	1.9	1.9	11.3	11.3			

REF NO.	QR51001				QR51002				QR51003				QR51004				QR54005			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	3.3	0	3.3		3.3	0	0		0	3.3	0		0	3.3	0		0	0	3.3	
STANDBY	3.3	0	3.3		3.3	0	0		0	3.3	0		0	3.3	0		0	3.3	0	

REF NO.	QR55001				QR55006				QR58002				QR58005				QR58006			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	3.3	-1.3	3.3		3.3	0	4.9		0	3.3	0		0	0	3.3		0	2.5	0	
STANDBY	3.3	-1.3	3.3		3.3	0	4.9		0	3.3	0		0	0	3.3		0	2.5	0	

SA-BTX68EF, SA-BTX70EB/EG DIGITAL P.C.B.

11.6. Main P.C.B. (1/6)

REF NO.	IC100																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	3.3	1.2	0	3.3	3.3	3.3	3.3	3.3	3.3	3.3	0	1.6	1.6	0	1.2	3.3	3.3	1.8	3.3	3.3
STANDBY	3.3	1.2	0	3.3	3.3	3.3	3.3	3.3	3.3	3.3	0	1.6	1.6	0	1.2	3.3	3.3	1.8	3.3	3.3
REF NO.	IC100																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	3.3	3.3	0.8	3.3	3.3	3.2	3.2	0	3.3	3.3	0	3.3	0	0	1.5	0	1.8	3.3	0	0
STANDBY	3.3	3.3	0.8	3.3	3.3	3.2	3.2	0	3.3	3.3	0	3.3	0	0	1.5	0	1.8	3.3	0	0
REF NO.	IC100																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	0	0	0	0	0	0	0	0.1	0.1	2.4	0	0	0	0	0	0	0	0	0	-0.1
STANDBY	0	0	0	0	0	0	0	0.1	0.1	2.4	0	0	0	0	0	0	0	0	0	-0.1
REF NO.	IC100																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD PLAY	3.3	3.3	0	3.2	3.3	3.3	0	0	3.3	0	3.3	0	3.3	0	1.8	0	1.3	0	1.3	3.3
STANDBY	3.3	3.3	0	3.2	3.3	3.3	0	0	3.3	0	3.3	0	3.3	0	1.8	0	1.3	0	1.3	3.3
REF NO.	IC100																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
CD PLAY	3.3	3.3	3.3	3.3	0	3.3	3.3	3.3	3.3	3.3	0	0	3.3	3.3	3.3	0	1.3	3.3	3.3	3.3
STANDBY	3.3	3.3	3.3	3.3	3	3.3	3.3	3.3	3.3	3.3	0	0	3.3	3.3	3.3	0	1.3	3.3	3.3	3.3
REF NO.	IC101																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	0	3.3	3.3	3.3	0	3.3	0	0	3.3	0	3.3	0	0	0	0	3.3	3.3	3.3	3.3
STANDBY	0	0	3.3	3.3	3.3	0	3.3	0	0	3.3	0	3.3	0	0	0	0	3.3	3.3	3.3	3.3
REF NO.	IC101																			
MODE	21	22	23	24	25	26	27	28	29	30										
CD PLAY	3.3	3.3	0	3.3	0	0	0	0	0	3.3										
STANDBY	3.3	3.3	0	3.3	3.3	0	0	0	0	3.3										
REF NO.	IC102																			
MODE	1	2	3	4	5															
CD PLAY	0	0	0	3.3	3.3															
STANDBY	0	0	0	3.3	3.3															
REF NO.	IC104																			
MODE	1	2	3																	
CD PLAY	3.3	0	5.2																	
STANDBY	3.3	0	5.2																	
REF NO.	IC105																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	0	0	0	0	3.3	3.3	0	3.3												
STANDBY	0	0	0	0	3.3	3.3	0	3.3												
SA-BTX68EF, SA-BTX70EB/EG MAIN P.C.B.																				

11.7. Main P.C.B. (2/6)

REF NO.	IC303																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	3.3	0	0	0	0	0	3.3	0	0	0	0	0	3.3	3.3	3.3	3.3	3.3	0	3.3	3.3
STANDBY	3.3	0	0	0	0	0	3.3	0	0	0	0	0	3.3	3.3	3.3	3.3	3.3	0	3.3	3.3

REF NO.	IC303																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	0	0	0	3.3	3.3	0	3.3	3.3	0	0	0	0	0	3.3	1.7	3.3	0	3.3	0	0
STANDBY	0	0	0	3.3	3.3	0	3.3	3.3	0	0	0	0	0	3.3	1.7	3.3	0	3.3	0	0

REF NO.	IC303																			
MODE	41	42	43	44	45	46	47	48	49	50										
CD PLAY	0	0	0	3.3	0	0	0	0	0	0										
STANDBY	0	0	0	3.3	0	0	0	0	0	0										

REF NO.	IC305																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	0	0	0	3.3	0	0	0	0	0	3.2	3.3	3.3	3.3	0.8	1.6	0	0	3.3	3.3
STANDBY	0	0	0	0	3.3	0	0	0	0	0	3.2	3.3	3.3	3.3	0.8	1.6	0	0	3.3	3.3

REF NO.	IC305																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	3.3	0	0	0	3.1	3.3	0	3.3	0	0	0	0	0	0	0	0	3.3	0	0	0
STANDBY	3.3	0	0	0	3.3	3.3	0	3.3	0	0	0	0	0	0	0	0	3.3	0	0	0

REF NO.	IC305																			
MODE	41	42	43	44	45	46	47	48												
CD PLAY	0	0	0	0	0	0	3.3	0												
STANDBY	0	0	0	0	0	0	3.3	0												

REF NO.	IC306																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	1.6	1.2	0	0	0	0	1.2	0	3.3	0	0	0	3.3	0	1.2	1.6	0	3.3	1.2
STANDBY	0	1.6	1.2	0	0	0	0	1.2	0	3.3	0	0	0	3.3	0	1.2	1.6	0	3.3	1.2

REF NO.	IC306																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	0	0	0	1.2	1.2	0	3.3	3.3	0	0	3.3	3.3	1.2	3.3	3.3	0	3.1	3.2	3.3	0
STANDBY	0	0	0	1.2	1.2	0	3.3	3.3	0	0	3.3	3.3	1.2	3.3	3.3	0	3.3	3.3	3.3	0

REF NO.	IC306																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	0	3.3	0	1.2	0	0	0	0	0	3.3	0	0	1.2	0	0	0	1.2	0	0	3.3
STANDBY	0	3.3	0	1.2	0	0	0	0	0	3.3	0	0	1.2	0	0	0	1.2	0	0	3.3

REF NO.	IC306																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD PLAY	0	0	0	0	1.2	0	3.3	3.3	0	1.7	3.3	0	3.3	3.3	0	3.3	1.2	0	3.3	3.3
STANDBY	0	0	0	0	1.2	0	3.3	3.3	0	1.7	3.3	0	3.3	3.3	0	3.3	1.2	0	3.3	3.3

SA-BTX68EF, SA-BTX70EB/EG MAIN P.C.B.

11.8. Main P.C.B. (3/6)

REF NO.	IC306																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
CD PLAY	3.3	0	3.3	3.3	1.1	3.3	0	3.3	3.3	1.2	3.3	3.3	3.3	3.3	0	3.3	0	3.3	0	3.3
STANDBY	3.3	0	3.3	3.3	1.2	3.3	0	3.3	3.3	1.2	3.3	3.3	3.3	3.3	0	3.3	0	3.3	0	3.3

REF NO.	IC306																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
CD PLAY	1.2	0	3.3	3.3	3.3	0	0	0	0	3.3	0	3.3	0	0	0	0	0	0	0	0
STANDBY	1.2	0	3.3	3.3	3.3	0	0	0	0	3.3	0	3.3	0	0	0	0	0	0	0	0

REF NO.	IC306																			
MODE	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
CD PLAY	0	0	1.2	0	3.3	0	0	1.2	0	0	0	1.2	0	1.3	1.2	3.3	0	0	1.6	0
STANDBY	0	0	1.2	0	3.3	0	0	1.2	0	0	0	1.2	0	0	0	3.3	0	0	1.6	0

REF NO.	IC306																			
MODE	141	142	143	144																
CD PLAY	1.7	0.6	0	0																
STANDBY	1.7	0.6	0	0																

REF NO.	IC401																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	1.5	0	3.3	0	3.3	0	2.1	0												
STANDBY	1.5	0	3.3	0	3.3	0	2.1	0												

REF NO.	IC501																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	-5.8	1.1	0	-7.1	0	0	0	4.7												
STANDBY	-5.8	1.1	0	-7.1	0	0	0	4.7												

REF NO.	IC512																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
CD PLAY	3.3	3.3	1.6	1.6	3.3	0	1.6	1.6	0	3.3	0	3.3	1.7	1.7	0	0				
STANDBY	3.3	3.3	1.6	1.6	3.3	0	1.6	1.6	0	3.3	0	3.3	1.7	1.7	0	0				

REF NO.	IC1001																			
MODE	1	2	3	4	5															
CD PLAY	5.2	0	3.1	1.1	0.1															
STANDBY	5.2	0	3.3	1.0	0.1															

REF NO.	IC1101																			
MODE	1	2	3	4	5															
CD PLAY	0.1	0	0.1	0.1	0.1															
STANDBY	0.1	0	0.1	0.1	0.1															

REF NO.	IC1102																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	0	0	0	-7.1	0	0	0	7.0												
STANDBY	0	0	0	-7.1	0	0	0	7.0												

SA-BTX68EF, SA-BTX70EB/EG MAIN P.C.B.

11.9. Main P.C.B. (4/6)

REF NO.	IC1451																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	0	0.8	0	3.3	0	0	0	0	0	0	3.3	3.3	0	0	0	0	0	0	0
STANDBY	0	3.3	0.8	0	3.3	0	0	0	0	0	0	3.3	3.3	0	0	0	0	0	0	0
REF NO.	IC3001																			
MODE	1	2	3	4	5															
CD PLAY	0	1.7	0	1.6	3.3															
STANDBY	0	1.7	0	1.6	3.3															
REF NO.	IC4001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	0	0	0	0	0	0	0	-7.1	0	0	0	7.0	0	0	0	0	0	0	0
STANDBY	0	0	0	0	0	0	0	0	-7.1	0	0	0	7.0	0	0	0	0	0	0	0
REF NO.	IC4001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
STANDBY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
REF NO.	IC4001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
STANDBY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
REF NO.	IC4001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD PLAY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
STANDBY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
REF NO.	IC4304																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	0	0	0	-7.1	0	0	0	7.0												
STANDBY	0	0	0	-7.1	0	0	0	7.0												
REF NO.	IC4305																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	0	0	0	-7.1	0	0	0	7.0												
STANDBY	0	0	0	-7.1	0	0	0	7.0												
REF NO.	IC7001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	1.8	2.5	2.0	1.0	1.6	0	0	0	0	20.3	18.9	21.7	21.6	0	19.0	1.8	1.0	2.0	2.5	2.5
STANDBY	1.8	2.5	2.0	1.0	1.6	0	0	0	0	20.3	18.9	21.7	21.7	0	19.0	1.8	1.0	2.0	2.5	2.5
REF NO.	IC7002																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	3.3	0	0	1.9	5.2	0	0	5.2												
STANDBY	3.3	0	0	1.9	5.2	0	0	5.2												

SA-BTX68EF, SA-BTX70EB/EG MAIN P.C.B.

11.10. Main P.C.B. (5/6)

REF NO.	IC7003																			
MODE	1	2	3	4	5															
CD PLAY	11.5	11.5	9.0	0	0															
STANDBY	11.5	11.5	9.0	0	0															
REF NO.	IC7004																			
MODE	1	2	3	4	5	6	7	8	9											
CD PLAY	0	0	0	0	0	5.2	1.2	0	0.8											
STANDBY	0	0	0	0	0	5.2	1.2	0	0.8											
REF NO.	IC7101																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	4.9	5.2	1.2	0	0.8	1.2	5.1	2.0												
STANDBY	4.9	5.2	1.2	0	0.8	1.2	5.1	2.0												
REF NO.	IC7102																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	3.3	0	0	1.9	5.2	0	0	4.5												
STANDBY	3.3	0	0	1.9	5.2	0	0	4.5												
REF NO.	IC54006																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	3.3	0	0	1.6	1.2	1.6	1.6	3.3	0	0	0.5	0	3.3	2.5	2.5	5.2	0	2.5	2.5
STANDBY	0	3.3	0	0	1.6	1.2	1.6	1.6	3.3	0	0	0.5	0	3.3	2.5	2.5	5.2	0	2.5	2.5
REF NO.	IC54006																			
MODE	21	22	23	24	25	26	27	28												
CD PLAY	2.5	2.5	5.2	0	2.6	2.5	2.5	0												
STANDBY	2.5	2.5	5.2	0	2.6	2.5	2.5	0												
REF NO.	IC54017																			
MODE	1	2	3	4	5															
CD PLAY	1.3	0	5.2	5.2	3.3															
STANDBY	1.3	0	5.2	5.2	3.3															
REF NO.	Q401							Q402							Q1101					
MODE	1	2	3	4	5	6		1	2	3	4	5	6		E	C	B			
CD PLAY	0	0.7	0	0	0.7	0		0	-7.1	0	0	-7.1	0		0	3.3	0			
STANDBY	0	0.7	0	0	0.7	0		0	0.7	0	0	0.7	0		0	3.3	0			
REF NO.	Q1102				Q1103				Q4304											
MODE	E	C	B		E	C	B		1	2	3	4	5	6						
CD PLAY	3.2	3.2	2.5		1.4	1.4	0.8		0	0.6	0	0	0.6	0						
STANDBY	3.2	3.2	2.5		1.4	1.4	0.8		0	0.6	0	0	0.6	0						
REF NO.	Q4305							Q7001				Q7002								
MODE	1	2	3	4	5	6		E	C	B		1	2	3	4	5	6			
CD PLAY	0	0.6	0	0	0.6	0		0	11.1	0		11.5	11.5	12.1	15.9	11.5	11.5			
STANDBY	0	0.6	0	0	0.6	0		0	11.1	0		11.5	11.5	12.2	15.9	11.5	11.5			

SA-BTX68EF, SA-BTX70EB/EG MAIN P.C.B.

11.11. Main P.C.B. (6/6)

REF NO.	Q7003						Q7004			Q7005			Q7006		
MODE	1	2	3	4	5	6	E	C	B	E	C	B	E	C	B
CD PLAY	5.2	5.2	14.1	15.9	5.2	5.2	-7.8	-8.4	-7.1	0	-7.8	-0.6	7.7	11.3	7.1
STANDBY	5.2	5.2	14.2	15.9	5.2	5.2	-7.8	-8.4	-7.1	0	-7.8	-0.6	7.7	11.3	7.1
REF NO.	Q7007			Q7008			Q7009			Q7050			QR101		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
CD PLAY	0	3.2	-1.2	0	3.2	-0.7	0	7.1	5.2	0	5.2	0	0	5.2	0
STANDBY	0	3.2	-1.2	0	3.2	-0.7	0	7.1	5.2	0	5.2	0	0	5.2	0
REF NO.	QR102			QR504			QR1101			QR1102			QR4010		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
CD PLAY	3.3	-5.0	3.3	3.3	-7.1	3.3	0	0	3.0	0	0	3.0	3.3	-6.9	3.3
STANDBY	3.3	-5.0	3.3	3.3	2.5	3.3	0	0	3.0	0	0	3.0	3.3	3.2	0
REF NO.	QR4013			QR7001			QR7051			QR7101					
MODE	E	C	B	E	C	B	E	C	B	E	C	B			
CD PLAY	3.3	3.3	0	0	3.2	0	5.2	0	5.2	0	3.2	0.2			
STANDBY	3.3	3.3	0	0	3.2	0	5.2	0	5.2	0	3.2	0.2			

SA-BTX68EF, SA-BTX70EB/EG MAIN P.C.B.

11.12. FL P.C.B.

REF NO.	IC6001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	3.3	0	0	0	1.9	1.1	0	0	3.3	0.7	1.1	0	3.3	-25.5	-23.3	-23.3	-25.5	-16.3	-18.7	-14
STANDBY	3.3	0	0	0	1.9	1.1	0	0	3.3	0.7	1.1	0	3.3	-25.6	-23.3	-23.3	-25.6	-16.3	-18.7	-14
REF NO.	IC6001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	-25.6	-25.6	-25.6	-23.4	-21	-25.5	-25.6	-25.6	-16.3	-26.4	-14.2	-16.5	23.6	-23.5	-23.5	-23.5	-23.5	-23.5	-23.5	-23.5
STANDBY	-25.7	-25.7	-25.7	-23.4	-21	-25.6	-25.7	-25.7	-16.4	-26.5	-14.2	-16.5	23.7	-23.6	-23.6	-23.6	-23.6	-23.6	-23.6	-23.6
REF NO.	IC6001																			
MODE	41	42	43	44																
CD PLAY	-23.5	-23.5	-3.3	0																
STANDBY	-23.6	-23.6	-3.3	0																

SA-BTX68EF, SA-BTX70EB/EG FL P.C.B.

11.13. D-Amp P.C.B.

REF NO.	IC5003																	
MODE	1	2	3	4	5													
CD PLAY	-31.7	-36.8	-35.0	-31.7	-31.6													
STANDBY	-31.7	-36.8	-35.0	-31.7	-31.6													

REF NO.	IC5009																	
MODE	1	2	3															
CD PLAY	0	7.1	5.0															
STANDBY	0	7.1	5.0															

REF NO.	Q5001							Q5002							Q5006			
MODE	1	2	3	4	5	6		1	2	3	4	5	6		E	C	B	
CD PLAY	0	-4.8	0	0	-4.8	0		0	-4.8	0	0	0	0		0	3.2	0	
STANDBY	0	0.6	0	0	0.6	0		0	0.6	0	0	0.6	0		0	3.2	0	

REF NO.	Q5007				Q5008				Q5009				Q5012				Q5013		
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B
CD PLAY	0	0	0.7		6.9	12.9	7.6		0	3.8	0.2		0	3.2	0		0	3.2	0
STANDBY	0	0	0.7		6.9	12.9	7.6		0	3.8	0.2		0	3.2	0		0	3.2	0

REF NO.	Q5014				Q5015				Q5016				Q5017						
MODE	E	C	B		E	C	B		E	C	B		E	C	B				
CD PLAY	-5.0	-7.1	-5.7		0	-5.7	-0.6		-5.0	4.9	-5.0		-17.8	-1.8	-17.3				
STANDBY	-5.0	-7.1	-5.7		0	-5.7	-0.6		-5.0	4.9	-5.0		-17.8	-1.8	-17.3				

REF NO.	Q5101							Q5102							Q5201					
MODE	1	2	3	4	5	6		1	2	3	4	5	6		1	2	3	4	5	6
CD PLAY	28.2	28.2	28.2	28.2	28.2	28.2		-7.0	-7.0	-7.0	-7.0	-7.0	-7.0		28.2	28.2	28.2	28.2	28.2	28.2
STANDBY	28.2	28.2	28.2	28.2	28.2	28.2		-7.0	-7.0	-7.0	-7.0	-7.0	-7.0		28.2	28.2	28.2	28.2	28.2	28.2

REF NO.	Q5202							Q5301							Q5302					
MODE	1	2	3	4	5	6		1	2	3	4	5	6		1	2	3	4	5	6
CD PLAY	-7.0	-7.0	-7.0	-7.0	-7.0	-7.0		28.2	28.2	28.2	28.2	28.2	28.2		-7.0	-7.0	-7.0	-7.0	-7.0	-7.0
STANDBY	-7.0	-7.0	-7.0	-7.0	-7.0	-7.0		28.2	28.2	28.2	28.2	28.2	28.2		-7.0	-7.0	-7.0	-7.0	-7.0	-7.0

REF NO.	QR5000				QR5001				QR5003				QR5005				QR5071		
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B
CD PLAY	0	5.0	0		0	5.0	0		5.0	4.8	5.0		0	3.2	0		0	3.2	-1.4
STANDBY	0	0	2.8		0	0	2.8		5.0	5.0	0		0	3.2	0		0	3.2	-1.4

SA-BTX68EF, SA-BTX70EB/EG D-AMP P.C.B.

11.14. iPod Fan P.C.B.

REF NO.	Q6451				Q6452														
MODE	E	C	B		E	C	B												
CD PLAY	0	0	0.9		0	2.1	2.5												
STANDBY	0	0	0.9		0	2.1	2.5												

SA-BTX68EF, SA-BTX70EB/EG iPod FAN P.C.B.

11.15. Power Button P.C.B.

REF NO.	Q6501																		
MODE	E	C	B																
CD PLAY	0	0.1	2.8																
STANDBY	0	0.1	2.8																

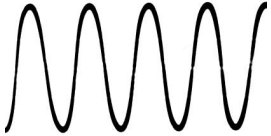
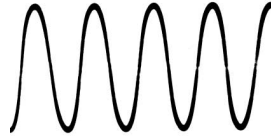
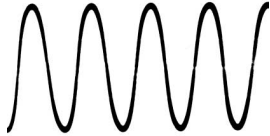
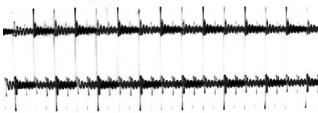
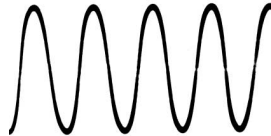
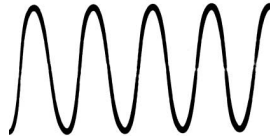
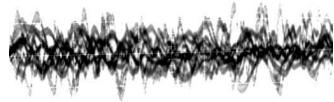
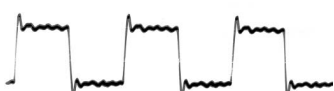
SA-BTX68EF, SA-BTX70EB/EG POWER BUTTON P.C.B.

11.16. SMPS P.C.B.

REF NO.	IC5701																		
MODE	1	2	3	4	5	6	7												
CD PLAY	10.2	-6.4	-6.4	-4.4	-6.5	-6.4	-6.4												
STANDBY	10.2	-6.4	-6.5	-4.4	-6.5	-6.3	-6.4												
REF NO.	IC5799																		
MODE	1	2	3	4	5	6	7	8											
CD PLAY	-8.6	0	-9.0	-8.1	7.4	0	-9.3	-9.3											
STANDBY	-8.6	0	-9.0	-8.0	-7.3	0	-9.2	-9.3											
REF NO.	IC5801																		
MODE	1	2	3																
CD PLAY	-2.1	-33.6	-37																
STANDBY	-2.1	-33.6	-37																
REF NO.	IC5899																		
MODE	1	2	3																
CD PLAY	4.1	2.5	0																
STANDBY	4.1	2.5	0																
REF NO.	Q5720				Q5861				Q5862				Q5863				Q5898		
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B
CD PLAY	-6.2	-5.7	-6.3		0	-27.7	0		0	3.3	0		-28.2	-27.5	-27.9		0	2.1	0.4
STANDBY	-6.2	-5.7	-6.3		0	-27.7	0		0	3.3	0		-28.2	-27.5	-27.9		0	2.1	0.4
REF NO.	Q5899				QR5801														
MODE	E	C	B		E	C	B												
CD PLAY	0	0.1	0.8		0	2.4	-0.5												
STANDBY	0	0.1	0.8		0	2.4	-0.5												

SA-BTX68EF, SA-BTX70EB/EG SMPS P.C.B.

11.17. Waveform Table (1/2)

WF No. IC100-12 (PLAY)  3.8Vp-p(50nsec/div)	WF No. IC100-13 (PLAY)  2.2Vp-p(20nsec/div)	WF No. IC306-2 (PLAY)  3.5Vp-p(20nsec/div)	WF No. IC306-17 (PLAY)  5Vp-p(20nsec/div)
WF No. IC306-113,115,116,117,131,134,135,137 (PLAY)  6.4Vp-p(500nsec/div)	WF No. IC512-13,14 (PLAY)  2.5Vp-p(50nsec/div)	WF No. IC3001-2 (PLAY)  2.1Vp-p(20nsec/div)	WF No. IC3001-4 (PLAY)  5.2Vp-p(20nsec/div)
WF No. IC4001-4,5,7,8,25 (PLAY)  1.2Vp-p(500nsec/div)	WF No. IC4001-28,29 (PLAY)  1Vp-p(200usec/div)	WF No. IC4001-45,46 (PLAY)  0.4Vp-p(100usec/div)	WF No. IC5001-9 (PLAY)  0.6Vp-p(1usec/div)
WF No. IC5001-25,28 (PLAY)  0.096Vp-p(500nsec/div)	WF No. IC5001-38,40 (PLAY)  1Vp-p(200usec/div)	WF No. IC5001-39 (PLAY)  0.4Vp-p(500nsec/div)	WF No. IC5001-44 (PLAY)  1.2Vp-p(500nsec/div)
WF No. IC6001-5 (PLAY)  1.5Vp-p(1usec/div)	WF No. IC53003-6 (PLAY)  1Vp-p(5msec/div)	WF No. IC53003-8 (PLAY)  1.25Vp-p(20usec/div)	WF No. IC53003-11 (PLAY)  1.1Vp-p(20usec/div)

11.18. Waveform Table (2/2)

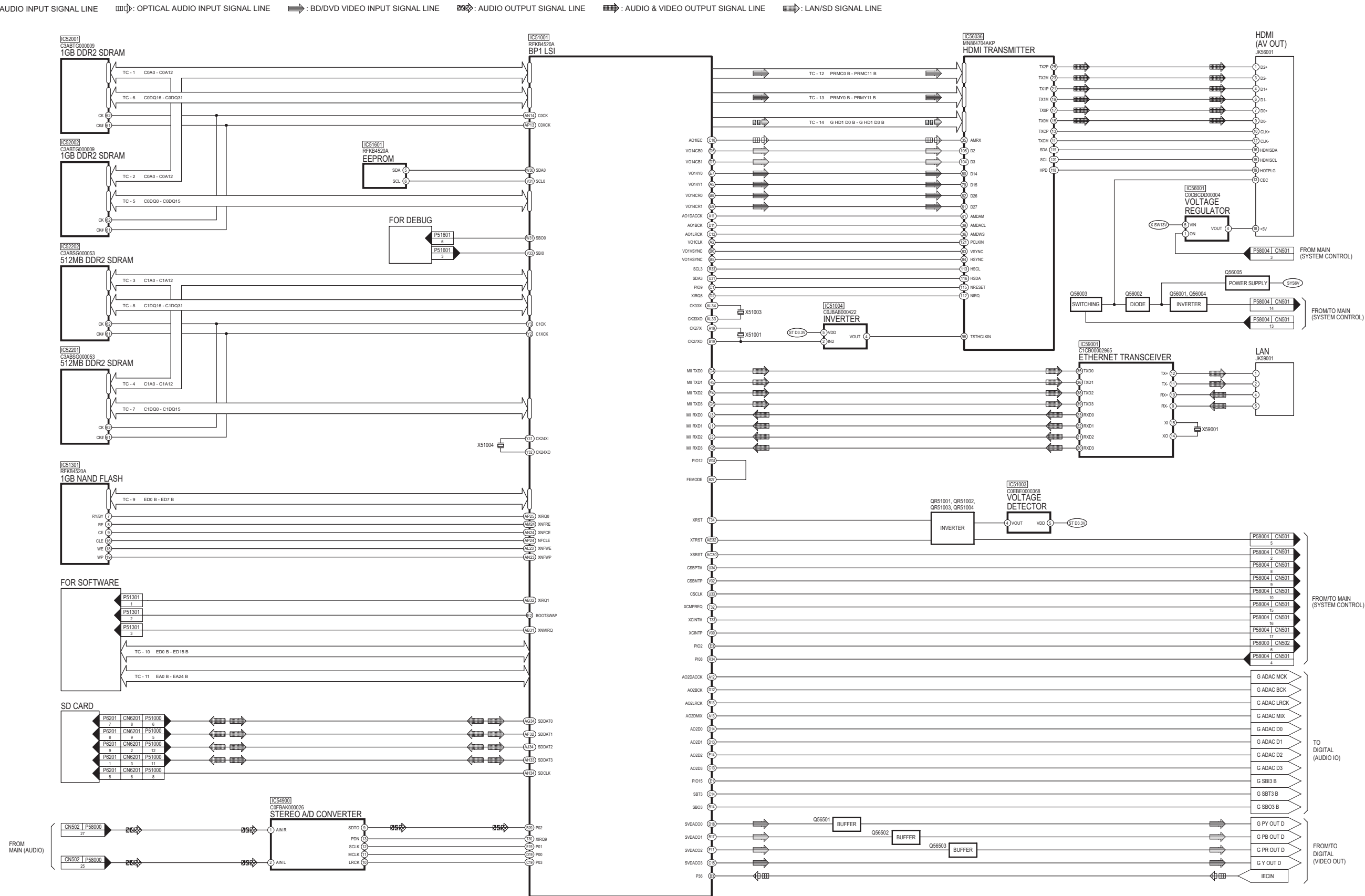
WF No. IC53003-30 (PLAY)  3Vp-p(20usec/div)	WF No. IC54006-6,11,12,13 (PLAY)  5Vp-p(500nsec/div)	WF No. IC54006-15 (PLAY)  2.5Vp-p(10msec/div)	WF No. IC54006-16,19,20,21,22 (PLAY)  4Vp-p(200usec/div)
WF No. IC54006-26,27 (PLAY)  1Vp-p(200usec/div)	WF No. IC56036-119,120 (PLAY)  0.14Vp-p(20nsec/div)	WF No. X51001-1 (PLAY)  1.1Vp-p(20nsec/div)	WF No. X51001-3 (PLAY)  1.6Vp-p(20nsec/div)
WF No. X51003-1,3 (PLAY)  0.8Vp-p(20nsec/div)	WF No. X51004-1 (PLAY)  1.1Vp-p(20nsec/div)	WF No. X51004-3 (PLAY)  2.5Vp-p(20nsec/div)	

12 Illustration of ICs, Transistor and Diode

 RFKWMBTX70EB (8p)(EB) RFKWMBTX70EG (8p)(EG) RFKWMBTX68EF (8p)(EF) C1AB00002751 (16p) C0ABBB000189 (8p) C0ABBB000125 (8p) C0FBAK000026 (16p)		 C0DBAYY00333 (20p) C0FBBK000069 (28p) C0JBAZ002843 (30p) C0DBAYY00274 (30p) C1AB00003097 (32p) C3ABMG000238 (50p)		 RFKWMBTX70EB (100p) (EB) RFKWMBTX70EG (100p) (EG) RFKWMBTX68EF (100p) (EF) C1AB00002951 (80p) MN864704AKP (128p) C2HBZY000024 (144p) MFI341S2161 (20p) C0HBB0000057 (44p) C0ZBZ0001673 (48p) C1CB00002965 (48p)	
RFKB4520A	RFKB4520A	C0GAE0000007	C0JBAB000422 C0JBAB000661	MIP2F20MSSCF	C0DBFZG00001
 C0CBCDD00004 C0ABAA000114 C0ZBZ0001675 C0DBZHE00026 C0DBZHE00024 C0EBE0000368 C0EBE0000242		C0JBAR000434 B1MBEDA00026	C5HACYY00003 (7p)	C0DABFC00002 (3p) C0DAEMZ00001 (3p)	C0CBABC00117 C0CBADD00010
B1BBCF000006	AN41214A-VF	C0DBEYY00016 C0DBZH000047 C0CBCYG00004 C0DBEYG00002	C0CBCBE00005	C0DBAYH00007 C0DBZYY00018 C0DBGFD00024 B1MBEDA00026	C3ABSG000053 C3ABTG000009
2SC3940ARA	2SB0621AHA	B1GBCFNN0041 B1GDCFN0032 B1GDCFJJ0008 B1GBCFJJ0007 B1ABCF000176	B1ADCE000012 B1ADCF000172 B1GBCFGG0030 B1GDCFJJ0047 B1GBCFJJ0051 B1GBCFLL0037 B1GBCFGN0018 2SA153200L UNR521100L	B1BABK000001	B1GBCFJA0017 B1GBCFJJ0001
B1ABCF000020 B1BAAJ000003	B1GFGCAA0001	B1BACD000018	B1HBDCA00001 B1CHPD000003	UNR221400L UNR51ALJ0L UNR52ALJ0L UNR91A5J0L 2SD1819K0L	B0FBAR000041
B1CBRK000001	B0AZ0000052	B3AAA0000803	B0EAMM000057 B0HAMP000094 B0JAME000029	B0EDKT000009	B0HFRJ000012
B0HBSM000054	B0HBSM000043	B0JCND000019	MAZ8024G0L	MAZ8200GML MAZ8180GML MAZ8130GHL MAZ8120GML MAZ8110GML MAZ8100GHL MAZ8068GML MAZ8300GML	MAZ8075GML MAZ8051GML MAZ8033GLL MAZ8270GLL MA2J1110GL MA2SD320GL MAZ8062GML MAZ8220GML
MA2YF8000L	B0ACCK000005 B0JCND000060	B0JCPG000005 B0HCMM000019 B0JCND000021 B0ECKP000002	B0JCMD000010 B0BC6R100010		

13 Block Diagram

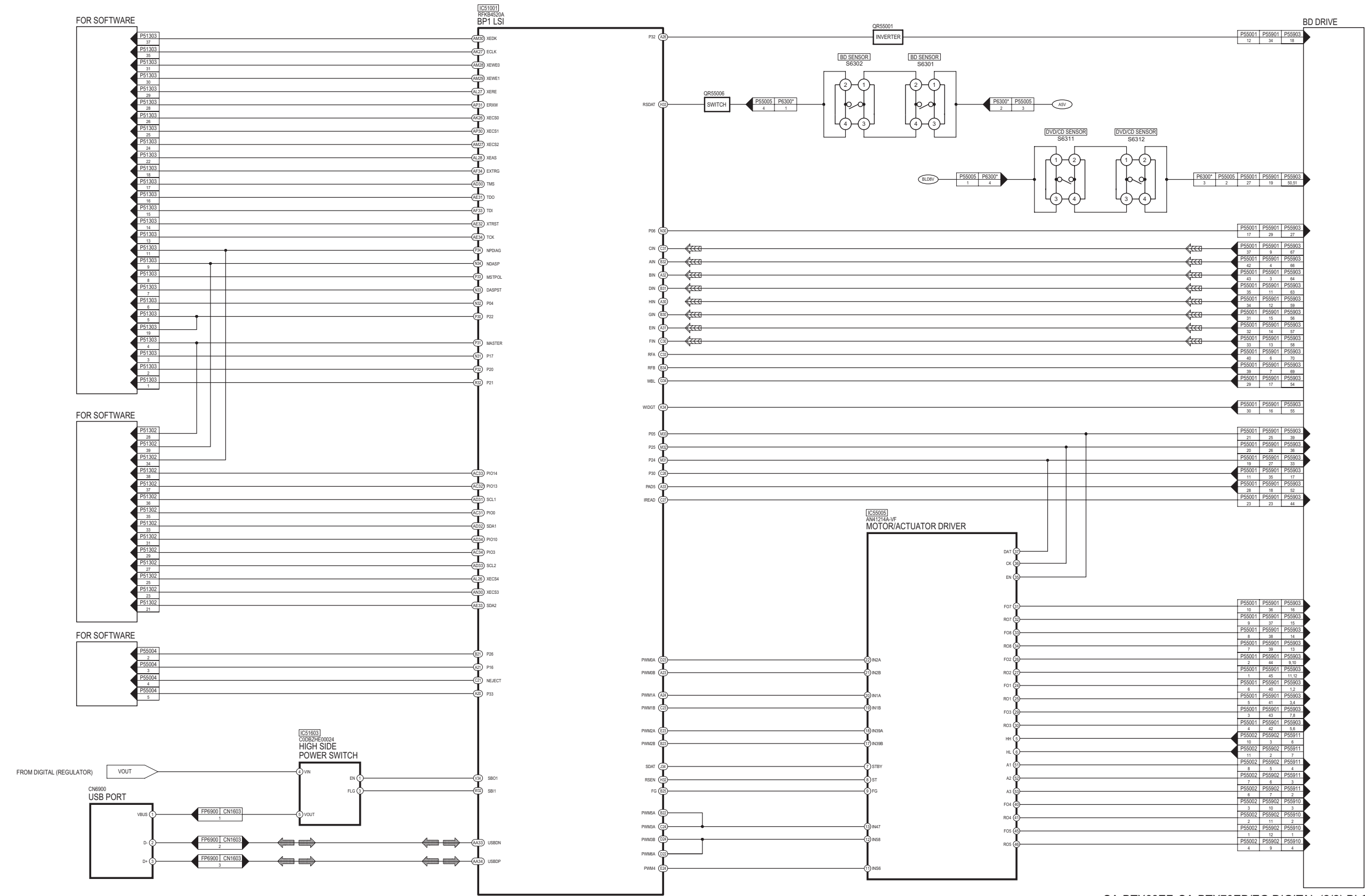
13.1. Digital (1/2)



SA-BTX68EF, SA-BTX70EB/EG DIGITAL (1/2) BLOCK DIAGRAM

13.2. Digital (2/2)

BD/DVD AUDIO & VIDEO INPUT SIGNAL LINE USB SIGNAL LINE



SA-BTX68EF, SA-BTX70EB/EG DIGITAL (2/2) BLOCK DIAGRAM

13.3. IC Terminal (Digital) Chart (1/2)

TC	IC52001 / 1GB DDR2 SDRAM		SIGNAL NAME	IC51001 / BP1 LSI	
	Port Name	Pin No		Pin No	Port Name
1	A0	15	C0A0	AP16	C0A0
	A1	14	C0A1	AJ15	C0A1
	A2	13	C0A2	AP14	C0A2
	A3	12	C0A3	AN11	C0A3
	A4	11	C0A4	AM16	C0A4
	A5	10	C0A5	AK15	C0A5
	A6	9	C0A6	AM15	C0A6
	A7	8	C0A7	AM12	C0A7
	A8	7	C0A8	AL16	C0A8
	A9	6	C0A9	AN12	C0A9
	A10	5	C0A10	AP10	C0A10
	A11	4	C0A11	AN15	C0A11
	A12	3	C0A12	AN11	C0A12

TC	IC52002 / 1GB DDR2 SDRAM		SIGNAL NAME	IC51001 / BP1 LSI	
	Port Name	Pin No		Pin No	Port Name
2	A0	15	C0A0	AP16	C0A0
	A1	14	C0A1	AJ15	C0A1
	A2	13	C0A2	AP14	C0A2
	A3	12	C0A3	AN11	C0A3
	A4	11	C0A4	AM16	C0A4
	A5	10	C0A5	AK15	C0A5
	A6	9	C0A6	AM15	C0A6
	A7	8	C0A7	AM12	C0A7
	A8	7	C0A8	AL16	C0A8
	A9	6	C0A9	AN12	C0A9
	A10	5	C0A10	AP10	C0A10
	A11	4	C0A11	AN15	C0A11
	A12	3	C0A12	AN11	C0A12

TC	IC52202 / 512MB DDR2 SDRAM		SIGNAL NAME	IC51001 / BP1 LSI	
	Port Name	Pin No		Pin No	Port Name
3	A0	15	C1A0	AC5	C1A0
	A1	14	C1A1	AA4	C1A1
	A2	13	C1A2	AA1	C1A2
	A3	12	C1A3	V4	C1A3
	A4	11	C1A4	AB3	C1A4
	A5	10	C1A5	W4	C1A5
	A6	9	C1A6	AA2	C1A6
	A7	8	C1A7	V2	C1A7
	A8	7	C1A8	AB1	C1A8
	A9	6	C1A9	W1	C1A9
	A10	5	C1A10	U2	C1A10
	A11	4	C1A11	AB4	C1A11
	A12	3	C1A12	V1	C1A12

TC	IC52201 / 512MB DDR2 SDRAM		SIGNAL NAME	IC51001 / BP1 LSI	
	Port Name	Pin No		Pin No	Port Name
4	A0	15	C1A0	AC5	C1A0
	A1	14	C1A1	AA4	C1A1
	A2	13	C1A2	AA1	C1A2
	A3	12	C1A3	V4	C1A3
	A4	11	C1A4	AB3	C1A4
	A5	10	C1A5	W4	C1A5
	A6	9	C1A6	AA2	C1A6
	A7	8	C1A7	V2	C1A7
	A8	7	C1A8	AB1	C1A8
	A9	6	C1A9	W1	C1A9
	A10	5	C1A10	U2	C1A10
	A11	4	C1A11	AB4	C1A11
	A12	3	C1A12	V1	C1A12

TC	IC52002 / 1GB DDR2 SDRAM		SIGNAL NAME	IC51001 / BP1 LSI	
	Port Name	Pin No		Pin No	Port Name
5	DQ4	33	C0DQ0	AK20	C0DQ0
	DQ3	34	C0DQ1	AJ21	C0DQ1
	DQ7	30	C0DQ2	AP21	C0DQ2
	DQ1	36	C0DQ3	AL21	C0DQ3
	DQ5	32	C0DQ4	AP22	C0DQ4
	DQ0	37	C0DQ5	AN21	C0DQ5
	DQ6	31	C0DQ6	AK21	C0DQ6
	DQ2	35	C0DQ7	AM21	C0DQ7
	DQ15	22	C0DQ8	AL19	C0DQ8
	DQ10	27	C0DQ9	AK18	C0DQ9
	DQ9	28	C0DQ10	AL17	C0DQ10
	DQ11	26	C0DQ11	AN18	C0DQ11
	DQ13	24	C0DQ12	AJ17	C0DQ12
	DQ8	29	C0DQ13	AK17	C0DQ13
	DQ14	23	C0DQ14	AP17	C0DQ14
	DQ12	25	C0DQ15	AN17	C0DQ15

TC	IC52001 / 1GB DDR2 SDRAM		SIGNAL NAME	IC51001 / BP1 LSI	
	Port Name	Pin No		Pin No	Port Name
6	DQ6	31	C0DQ16	AJ11	C0DQ16
	DQ2	35	C0DQ17	AM9	C0DQ17
	DQ3	34	C0DQ18	AK10	C0DQ18
	DQ0	37	C0DQ19	AP8	C0DQ19
	DQ1	36	C0DQ20	AL10	C0DQ20
	DQ4	33	C0DQ21	AL9	C0DQ21
	DQ7	30	C0DQ22	AN8	C0DQ22
	DQ5	32	C0DQ23	AN9	C0DQ23
	DQ13	24	C0DQ24	AK8	C0DQ24
	DQ8	29	C0DQ25	AL8	C0DQ25
	DQ9	28	C0DQ26	AM4	C0DQ26
	DQ15	22	C0DQ27	AJ7	C0DQ27
	DQ14	23	C0DQ28	AP4	C0DQ28
	DQ10	27	C0DQ29	AL7	C0DQ29
	DQ11	26	C0DQ30	AN3	C0DQ30
	DQ12	25	C0DQ31	AP2	C0DQ31

TC	IC52201 / 512MB DDR2 SDRAM		SIGNAL NAME	IC51001 / BP1 LSI	
	Port Name	Pin No		Pin No	Port Name
7	DQ4	33	C1DQ0	AF5	C1DQ0
	DQ1	36	C1DQ1	AG4	C1DQ1
	DQ7	30	C1DQ2	AH1	C1DQ2
	DQ2	35	C1DQ3	AJ2	C1DQ3
	DQ3	34	C1DQ4	AG5	C1DQ4
	DQ6	31	C1DQ5	AG6	C1DQ5
	DQ0	37	C1DQ6	AH3	C1DQ6
	DQ5	32	C1DQ7	AK1	C1DQ7
	DQ15	22	C1DQ8	AD4	C1DQ8
	DQ13	24	C1DQ9	AD5	C1DQ9
	DQ10	27	C1DQ10	AE4	C1DQ10
	DQ8	29	C1DQ11	AC6	C1DQ11
	DQ11	26	C1DQ12	AD2	C1DQ12
	DQ9	28	C1DQ13	AC3	C1DQ13
	DQ14	23	C1DQ14	AD1	C1DQ14
	DQ12	25	C1DQ15	AC2	C1DQ15

TC	IC52202 / 512MB DDR2 SDRAM		SIGNAL NAME	IC51001 / BP1 LSI	
	Port Name	Pin No		Pin No	Port Name
8	DQ4	33	C1DQ16	N4	C1DQ16
	DQ6	31	C1DQ17	R6	C1DQ17
	DQ7	30	C1DQ18	T4	C1DQ18
	DQ0	37	C1DQ19	T1	C1DQ19
	DQ3	34	C1DQ20	P5	C1DQ20
	DQ1	36	C1DQ21	R5	C1DQ21
	DQ2	35	C1DQ22	T3	C1DQ22
	DQ5	32	C1DQ23	U3	C1DQ23
	DQ9	28	C1DQ24	M1	C1DQ24
	DQ10	27	C1DQ25	M4	C1DQ25
	DQ13	24	C1DQ26	M5	C1DQ26
	DQ12	25	C1DQ27	L3	C1DQ27
	DQ11	26	C1DQ28	M2	C1DQ28
	DQ14	23	C1DQ29	N3	C1DQ29
	DQ8	29	C1DQ30	L6	C1DQ30
	DQ15	22	C1DQ31	L5	C1DQ31

TC	IC51301 / 1GB NAND FLASH		SIGNAL NAME	IC51001 / BP1 LSI	
	Port Name	Pin No		Pin No	Port Name
9	IO0	29	ED0 B	AN25	ED0
	IO1	30	ED1 B	AK23	ED1
	IO1	31	ED2 B	AM25	ED2
	IO3	32	ED3 B	AP26	ED3
	IO4	41	ED4 B	AL24	ED4
	IO5	42	ED5 B	AN26	ED5
	IO6	43	ED6 B	AK24	ED6
	IO7	44	ED7 B	AP27	ED7

13.4. IC Terminal (Digital) Chart (2/2)

TC	IC51001 / BP1 LSI		SIGNAL NAME	P51301 (FOR SOFTWARE)	
	Port Name	Pin No		Pin No	Port Name
10	ED0	AN25	ED0 B	49	D16
	ED1	AK23	ED1 B	48	D17
	ED2	AM25	ED2 B	47	D18
	ED3	AP26	ED3 B	46	D19
	ED4	AL24	ED4 B	45	D20
	ED5	AN26	ED5 B	44	D21
	ED6	AK24	ED6 B	43	D22
	ED7	AP27	ED7 B	42	D23
	ED8	AM26	ED8 B	40	D24
	ED9	AL25	ED9 B	39	D25
	ED10	AN27	ED10 B	38	D26
	ED11	AP28	ED11 B	37	D27
	ED12	AK25	ED12 B	36	D28
	ED13	AN28	ED13 B	35	D29
	ED14	AN29	ED14 B	34	D30
	ED15	AP29	ED15 B	33	D31

TC	IC51001 / BP1 LSI		SIGNAL NAME	P51301 (FOR SOFTWARE)	
	Port Name	Pin No		Pin No	Port Name
11	EA0	AN31	EA0 B	31	A0
	EA1	AL30	EA1 B	30	A1
	EA2	AK28	EA2 B	29	A2
	EA3	AL29	EA3 B	28	A3
	EA4	AP32	EA4 B	27	A4
	EA5	AK29	EA5 B	26	A5
	EA6	AM31	EA6 B	25	A6
	EA7	AK31	EA7 B	24	A7
	EA8	AN32	EA8 B	23	A8
	EA9	AJ30	EA9 B	22	A9
	EA10	AP33	EA10 B	21	A10
	EA11	AN34	EA11 B	20	A11
	EA12	AJ31	EA12 B	18	A12
	EA13	AM33	EA13 B	17	A13
	EA14	AH30	EA14 B	16	A14
	EA15	AL32	EA15 B	15	A15
	EA16	AJ32	EA16 B	14	A16
	EA17	AM34	EA17 B	13	A17
	EA18	AH32	EA18 B	12	A18
	EA19	AH31	EA19 B	11	A19
	EA20	AG32	EA20 B	10	A20
	EA21	AK33	EA21 B	9	A21
	EA22	AG31	EA22 B	8	A22
	EA23	AK34	EA23 B	7	A23
	EA24	AK32	EA24 B	6	A24

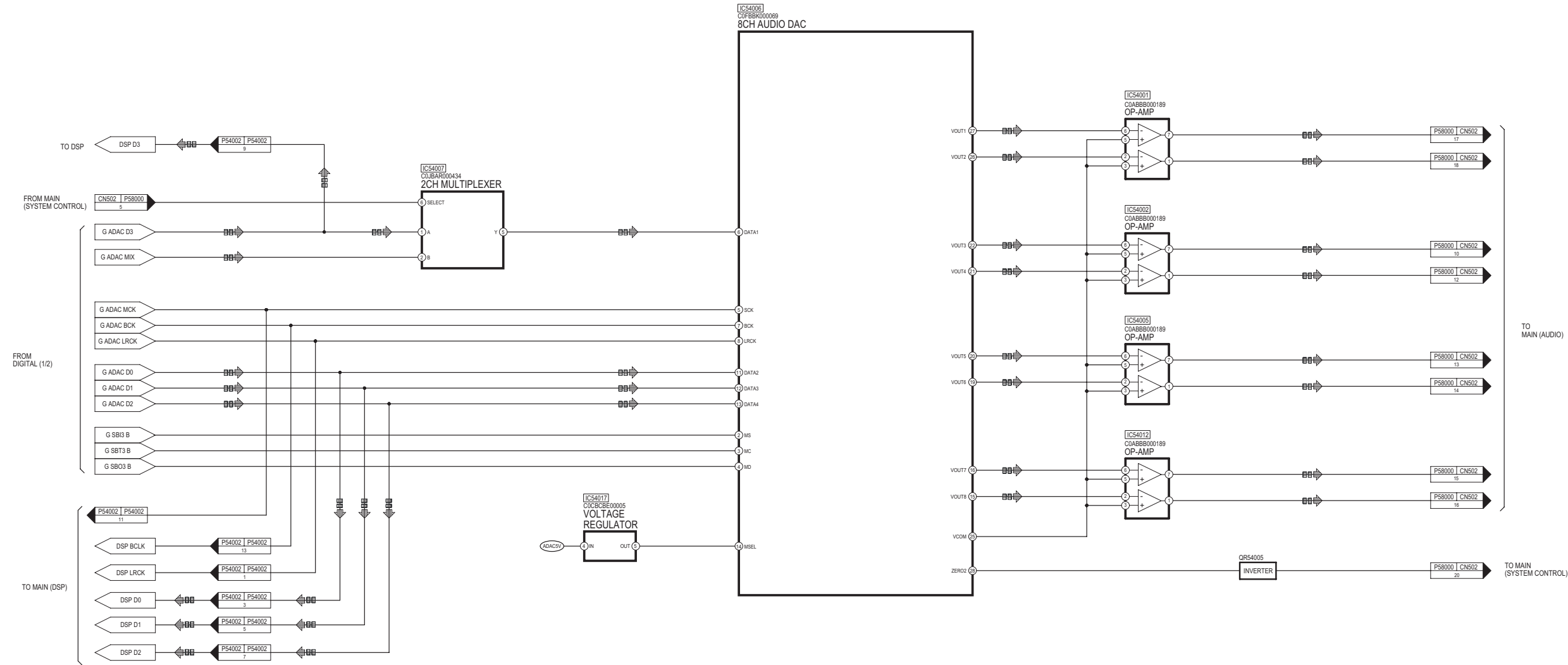
TC	IC51001 / BP1 LSI		SIGNAL NAME	IC56036 / HDMI TRANSMITTER	
	Port Name	Pin No		Pin No	Port Name
12	VO1C0	B4	PRMC0 B	91	D8
	VO1C1	D8	PRMC1 B	90	D9
	VO1C2	C5	PRMC2 B	88	D10
	VO1C3	A4	PRMC3 B	87	D11
	VO1C4	C11	PRMC4 B	59	D28
	VO1C5	A8	PRMC5 B	57	D29
	VO1C6	E10	PRMC6 B	56	D30
	VO1C7	C9	PRMC7 B	55	D31
	VO1C8	E11	PRMC8 B	54	D32
	VO1C9	B9	PRMC9 B	53	D33
	VO1C10	D10	PRMC10 B	51	D34
	VO1C11	A9	PRMC11 B	50	D35

TC	IC51001 / BP1 LSI		SIGNAL NAME	IC56036 / HDMI TRANSMITTER	
	Port Name	Pin No		Pin No	Port Name
13	VO1Y0	C4	PRMY0 B	103	D4
	VO1Y1	C6	PRMY1 B	102	D5
	VO1Y2	D6	PRMY2 B	94	D6
	VO1Y3	A3	PRMY3 B	92	D7
	VO1Y4	C7	PRMY4 B	78	D16
	VO1Y5	E8	PRMY5 B	77	D17
	VO1Y6	B7	PRMY6 B	76	D18
	VO1Y7	A6	PRMY7 B	75	D19
	VO1Y8	D9	PRMY8 B	73	D20
	VO1Y9	C8	PRMY9 B	72	D21
	AO1Y10	E12	PRMY10 B	71	D22
	VO1Y11	A7	PRMY11 B	70	D23

TC	IC51001 / BP1 LSI		SIGNAL NAME	IC56036 / HDMI TRANSMITTER	
	Port Name	Pin No		Pin No	Port Name
14	AO1D0	E13	G HD1 D0 B	46	AMSDI0
	AO1D1	B10	G HD1 D1 B	44	AMSDI2
	AO1D2	B11	G HD1 D2 B	45	AMSDI1
	AO1D3	A10	G HD1 D3 B	42	AMSDI3

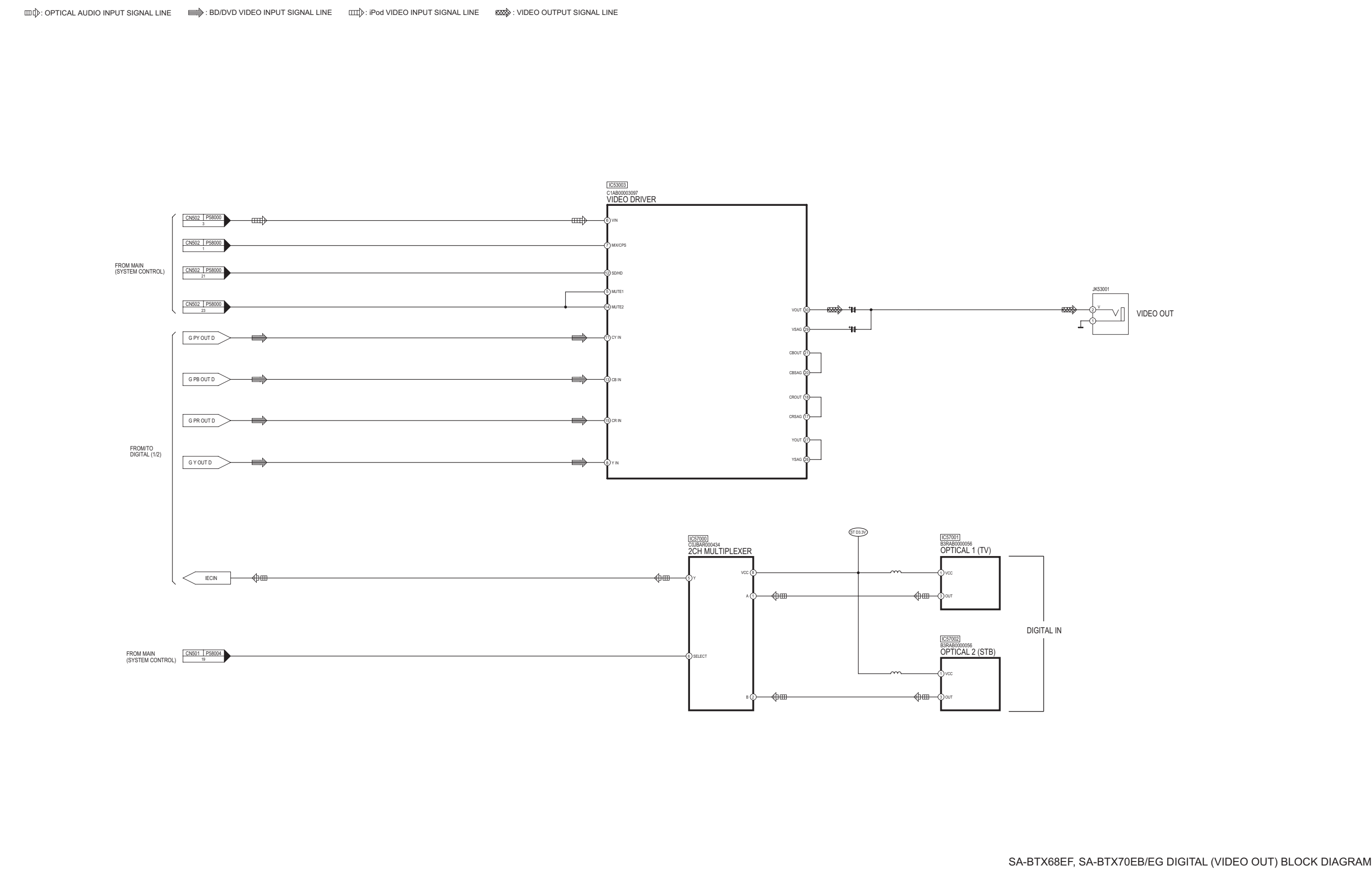
13.5. Digital (Audio IO)

 : BD/DVD AUDIO INPUT SIGNAL LINE

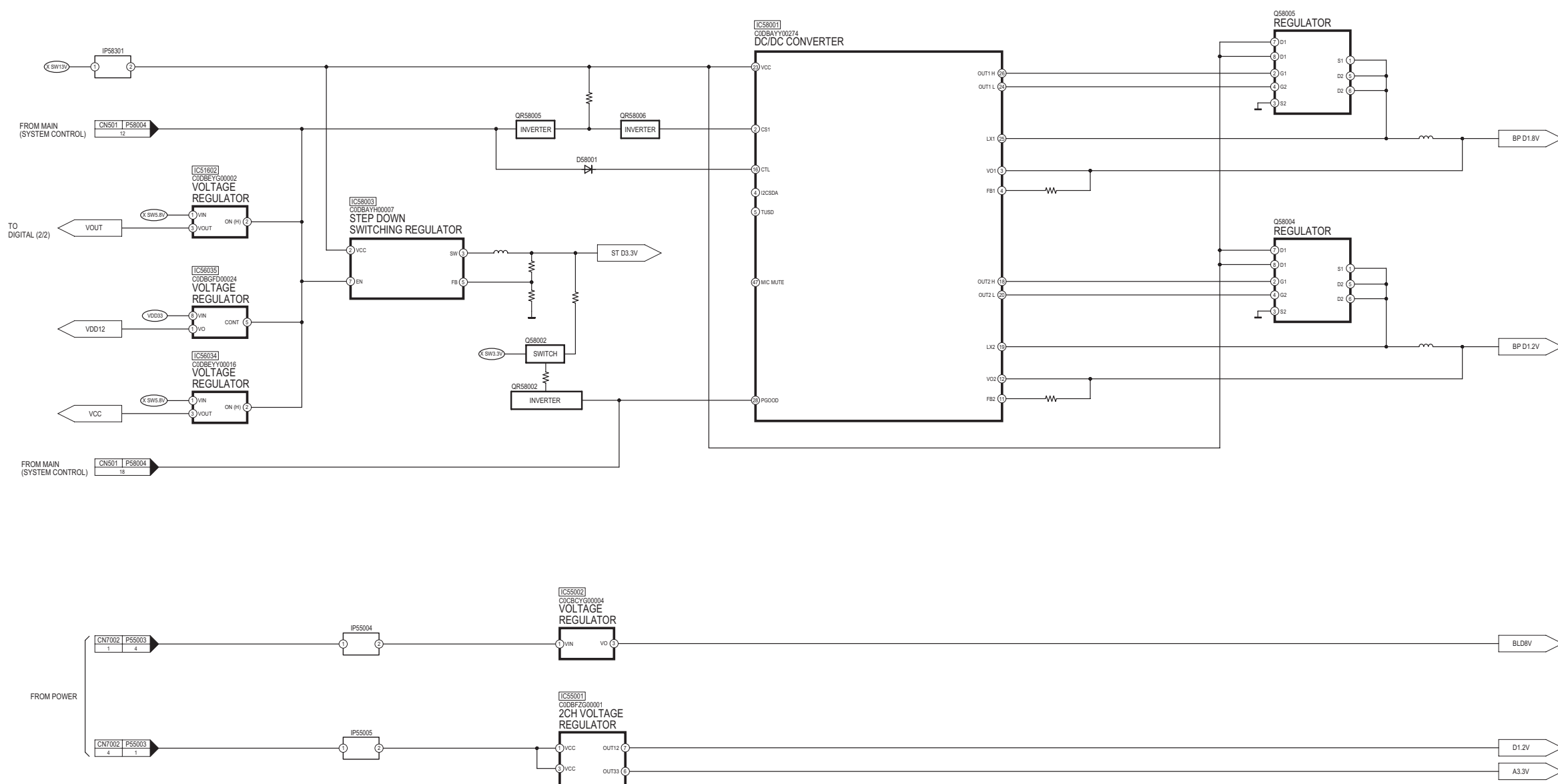


SA-BTX68EF, SA-BTX70EB/EG DIGITAL (AUDIO IO) BLOCK DIAGRAM

13.6. Digital (Video Out)



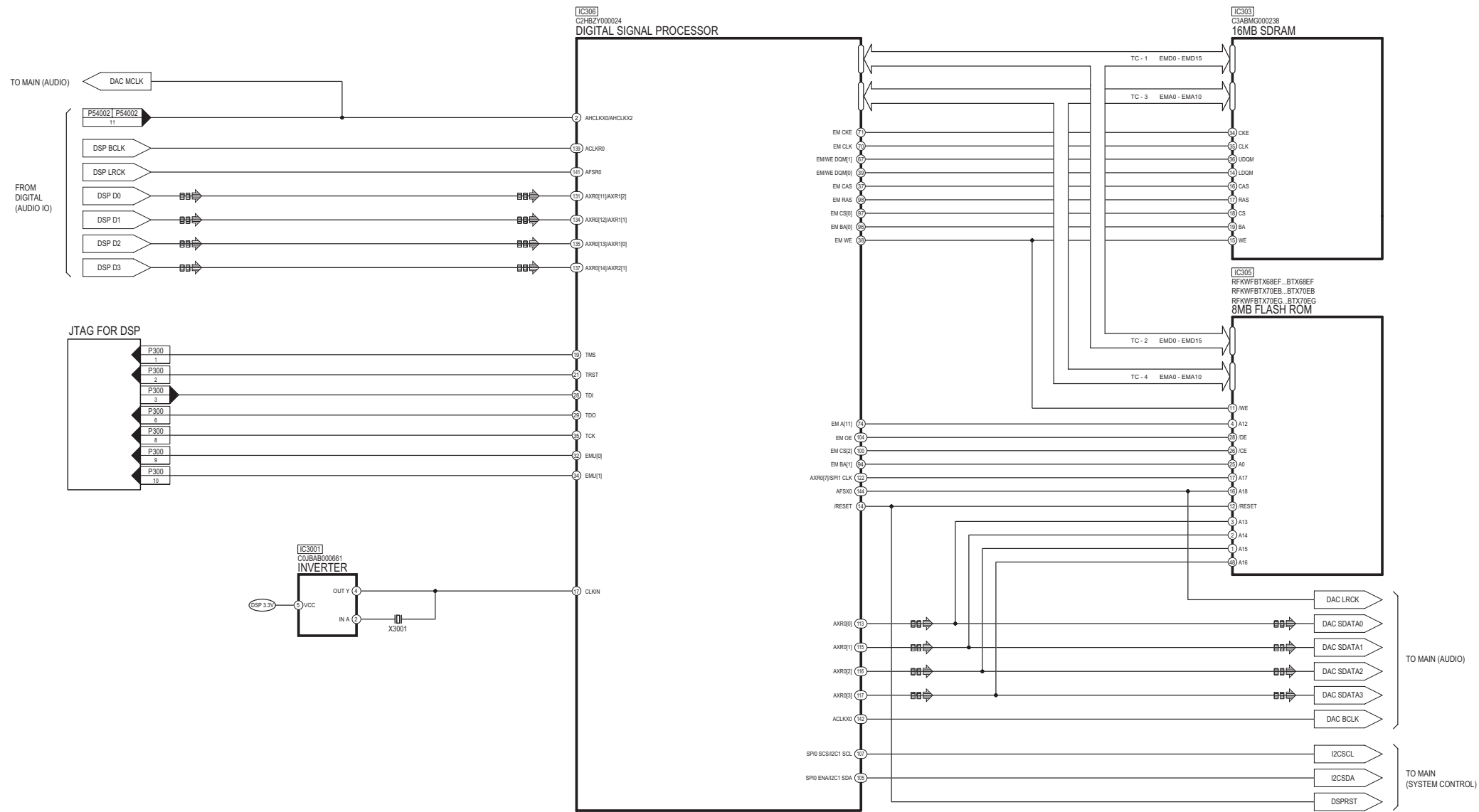
13.7. Digital (Regulator)



SA-BTX68EF, SA-BTX70EB/EG DIGITAL (REGULATOR) BLOCK DIAGRAM

13.8. Main (DSP)

BD/DVD AUDIO INPUT SIGNAL LINE



SA-BTX68EF, SA-BTX70EB/EG MAIN (DSP) BLOCK DIAGRAM

13.9. IC Terminal Main (DSP) Chart

TC	IC306 / DIGITAL SIGNAL PROCESSOR		SIGNAL NAME	IC303 / 16MB SDRAM	
	Port Name	Pin No		Pin No	Port Name
1	EM D[0]	52	EM D0	2	DQ0
	EM D[1]	51	EM D1	3	DQ1
	EM D[2]	49	EM D2	5	DQ2
	EM D[3]	48	EM D3	6	DQ3
	EM D[4]	46	EM D4	8	DQ4
	EM D[5]	45	EM D5	9	DQ5
	EM D[6]	43	EM D6	11	DQ6
	EM D[7]	41	EM D7	12	DQ7
	EM D[8]	66	EM D8	39	DQ8
	EM D[9]	64	EM D9	40	DQ9
	EM D[10]	63	EM D10	42	DQ10
	EM D[11]	61	EM D11	43	DQ11
	EM D[12]	59	EM D12	45	DQ12
	EM D[13]	58	EM D13	46	DQ13
	EM D[14]	56	EM D14	48	DQ14
	EM D[15]	55	EM D15	49	DQ15

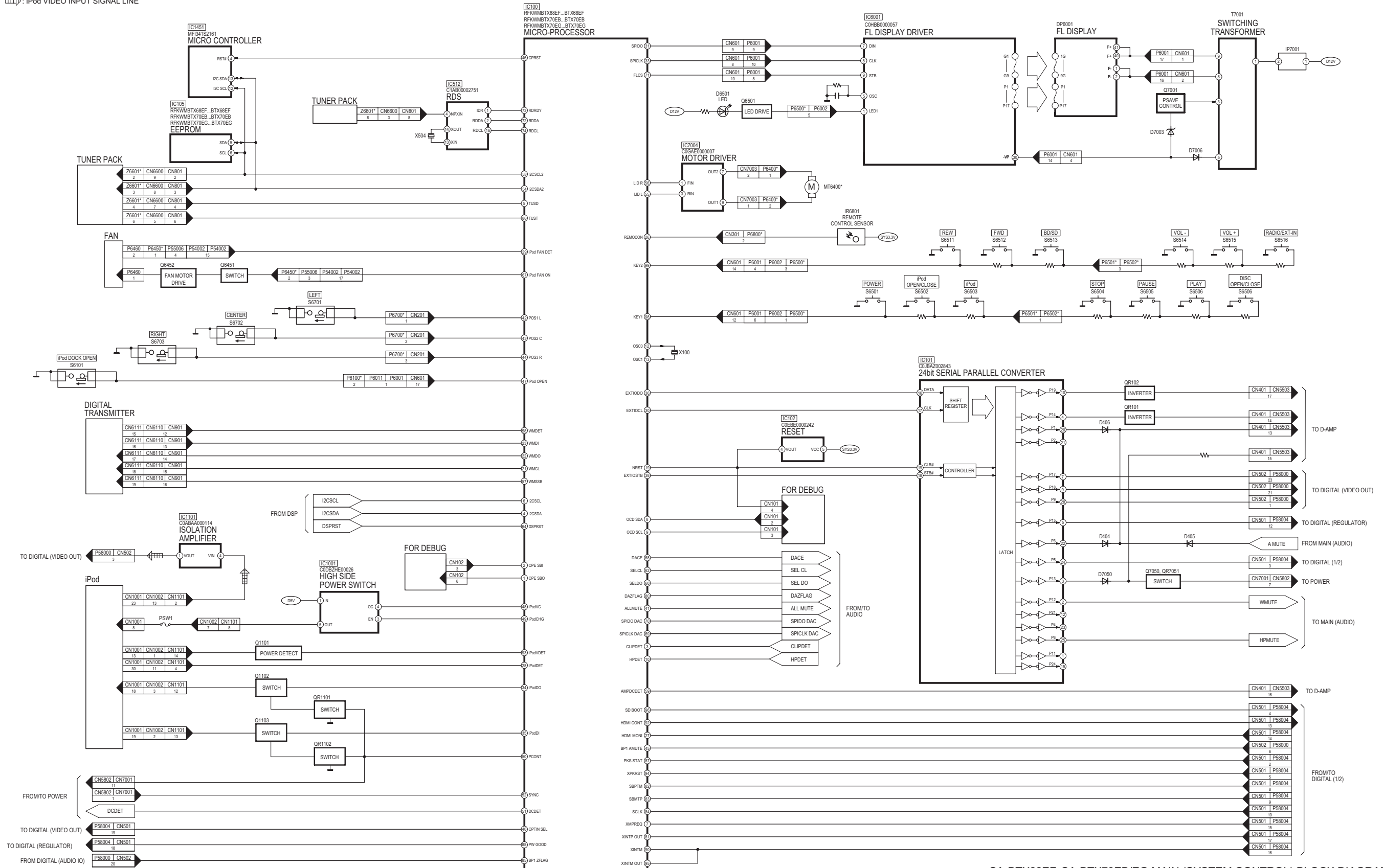
TC	IC306 / DIGITAL SIGNAL PROCESSOR		SIGNAL NAME	IC305 / 8MB FLASH ROM	
	Port Name	Pin No		Pin No	Port Name
4	EM A[0]	91	EM A0	24	A0
	EM A[1]	89	EM A1	23	A1
	EM A[2]	88	EM A2	22	A2
	EM A[3]	86	EM A3	21	A3
	EM A[4]	84	EM A4	20	A4
	EM A[5]	83	EM A5	19	A5
	EM A[6]	80	EM A6	18	A6
	EM A[7]	79	EM A7	8	A7
	EM A[8]	76	EM A8	7	A8
	EM A[9]	75	EM A9	6	A9
	EM A[10]	93	EM A10	5	A10

TC	IC306 / DIGITAL SIGNAL PROCESSOR		SIGNAL NAME	IC305 / 8MB FLASH ROM	
	Port Name	Pin No		Pin No	Port Name
2	EM D[0]	52	EM D0	29	DQ0
	EM D[1]	51	EM D1	31	DQ1
	EM D[2]	49	EM D2	33	DQ2
	EM D[3]	48	EM D3	35	DQ3
	EM D[4]	46	EM D4	38	DQ4
	EM D[5]	45	EM D5	40	DQ5
	EM D[6]	43	EM D6	42	DQ6
	EM D[7]	41	EM D7	44	DQ7
	EM D[8]	66	EM D8	30	DQ8
	EM D[9]	64	EM D9	32	DQ9
	EM D[10]	63	EM D10	34	DQ10
	EM D[11]	61	EM D11	36	DQ11
	EM D[12]	59	EM D12	39	DQ12
	EM D[13]	58	EM D13	41	DQ13
	EM D[14]	56	EM D14	43	DQ14
	EM D[15]	55	EM D15	45	DQ15

TC	IC306 / DIGITAL SIGNAL PROCESSOR		SIGNAL NAME	IC303 / 16MB SDRAM	
	Port Name	Pin No		Pin No	Port Name
3	EM A[0]	91	EM A0	21	A0
	EM A[1]	89	EM A1	22	A1
	EM A[2]	88	EM A2	23	A2
	EM A[3]	86	EM A3	24	A3
	EM A[4]	84	EM A4	27	A4
	EM A[5]	83	EM A5	28	A5
	EM A[6]	80	EM A6	29	A6
	EM A[7]	79	EM A7	30	A7
	EM A[8]	76	EM A8	31	A8
	EM A[9]	75	EM A9	32	A9
	EM A[10]	93	EM A10	20	A10

13.10. Main (System Control)

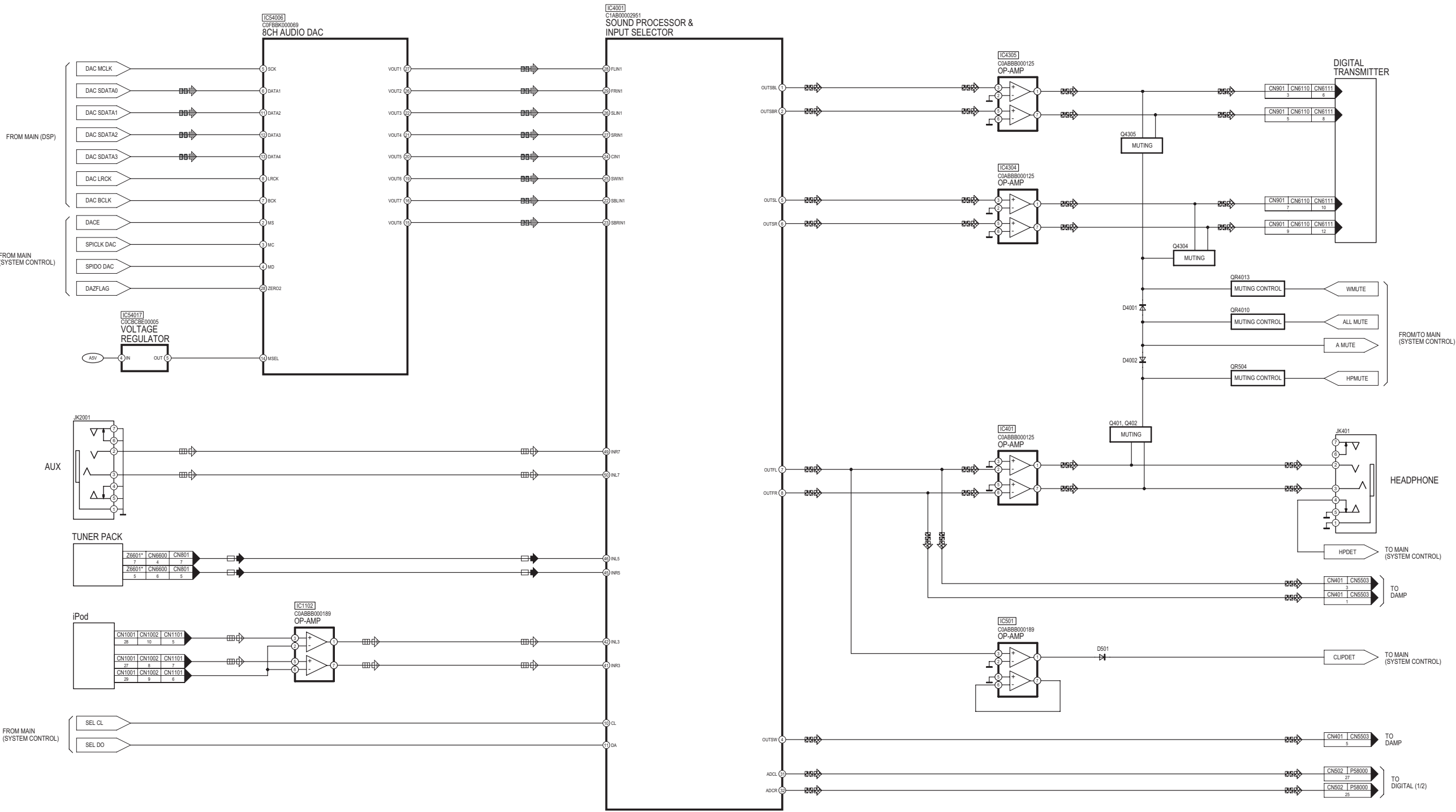
: iPod VIDEO INPUT SIGNAL LINE



SA-BTX68EF, SA-BTX70EB/EG MAIN (SYSTEM CONTROL) BLOCK DIAGRAM

13.11. Main (Audio)

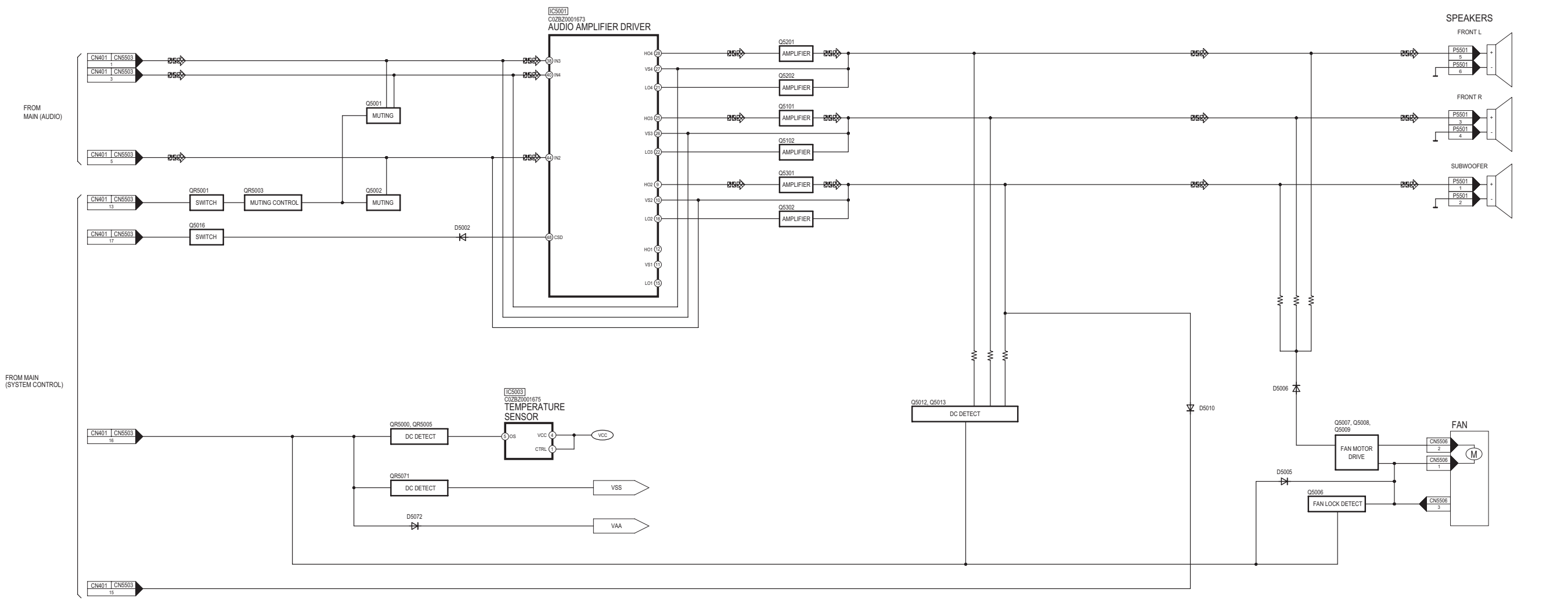
BD/DVD AUDIO INPUT SIGNAL LINE iPod/AUX AUDIO INPUT SIGNAL LINE AUDIO OUTPUT SIGNAL LINE FM SIGNAL LINE



SA-BTX68EF, SA-BTX70EB/EG MAIN (AUDIO) BLOCK DIAGRAM

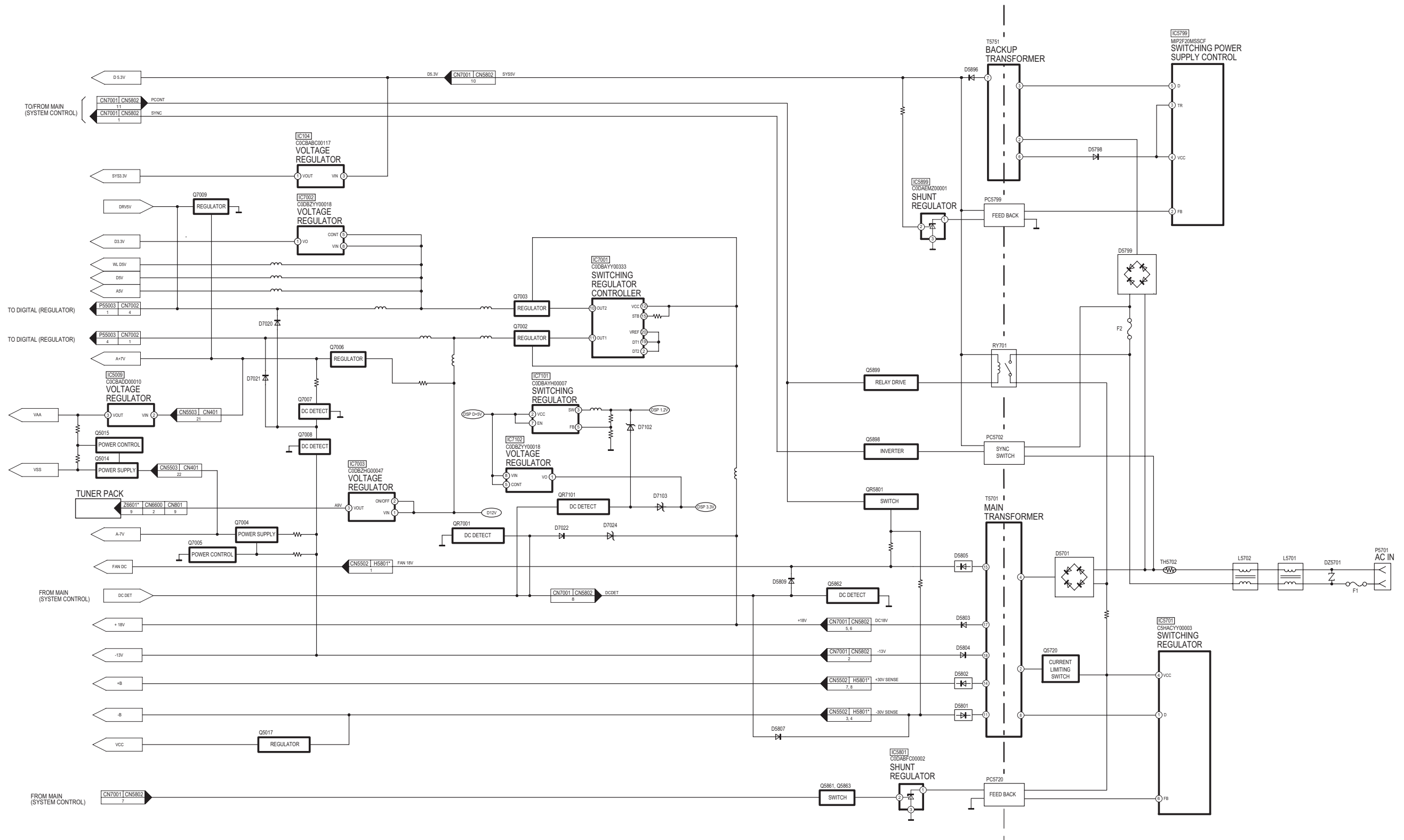
13.12. D-Amp

: AUDIO OUTPUT SIGNAL LINE



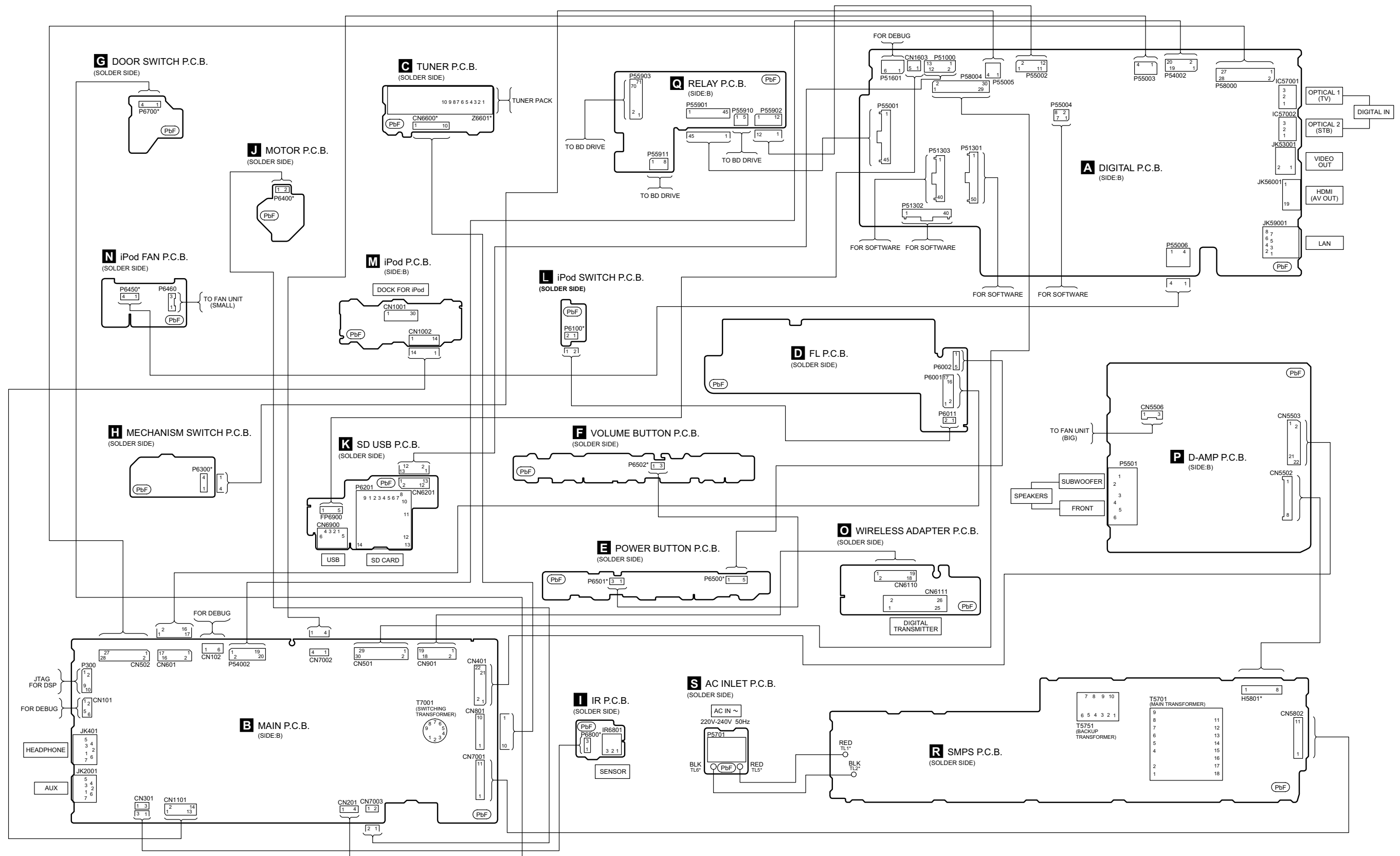
SA-BTX68EF, SA-BTX70EB/EG D-AMP BLOCK DIAGRAM

13.13. Power



SA-BTX68EF, SA-BTX70EB/EG POWER BLOCK DIAGRAM

14 Wiring Diagram



NOTE: " * " REF IS FOR INDICATION ONLY.

SA-BTX68EF, SA-BTX70EB/EG WIRING CONNECTION

15 Schematic Diagram Notes

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

Notes:

S6101:	iPod Dock Open switch.
S6301/S6302:	BD Sensor Switch.
S6311/S6312:	DVD/CD Swnsor Switch.
S6501:	Power switch (⏻/⏻).
S6502:	iPod Open/Close switch (⏻).
S6503:	iPod switch.
S6504:	Stop switch (■).
S6505:	Pause switch (⏸).
S6506:	Play switch (▶).
S6507:	Disc Open/Close switch (⏻).
S6511:	REW switch (◀◀◀/◀◀◀).
S6512:	FWD switch (▶▶▶/▶▶▶).
S6513:	BD/SD switch.
S6514:	VOL - switch (←).
S6515:	VOL + switch (→).
S6516:	Radio/Ext-in switch.
S6701:	Door (Left) switch.
S6701:	Door (Center) switch.
S6701:	Door (Right) switch.

- Important safety notice:

Components identified by ⚠ mark have special characteristics important for safety.

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

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

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

AC rated voltage capacitors:

C5700, C5701, C5702, C5704, C5705

- Resistor

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

- Capacitor

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

- Coil

Unit of inductance is H, unless otherwise noted.

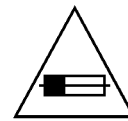
- *

Ref. is for indication only.

- Voltage and signal line

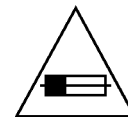
	:+B signal line
	:-B signal line
	:BD/DVD Audio input signal line
	:iPod/AUX/Optical Audio input signal line
	:BD/DVD Video input signal line
	:iPod Video input signal line
	:BD/DVD Audio & Video input signal line
	:Audio output signal line
	:Video output signal line
	:Audio & Video output signal line
	:FM signal Line
	:LAN/SD/USB signal line

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE F1 T3.15AL 250V FUSE



RISK OF FIRE-REPLACE FUSE AS MARKED.

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE F2 T1.6AL 250V FUSE



RISK OF FIRE-REPLACE FUSE AS MARKED.

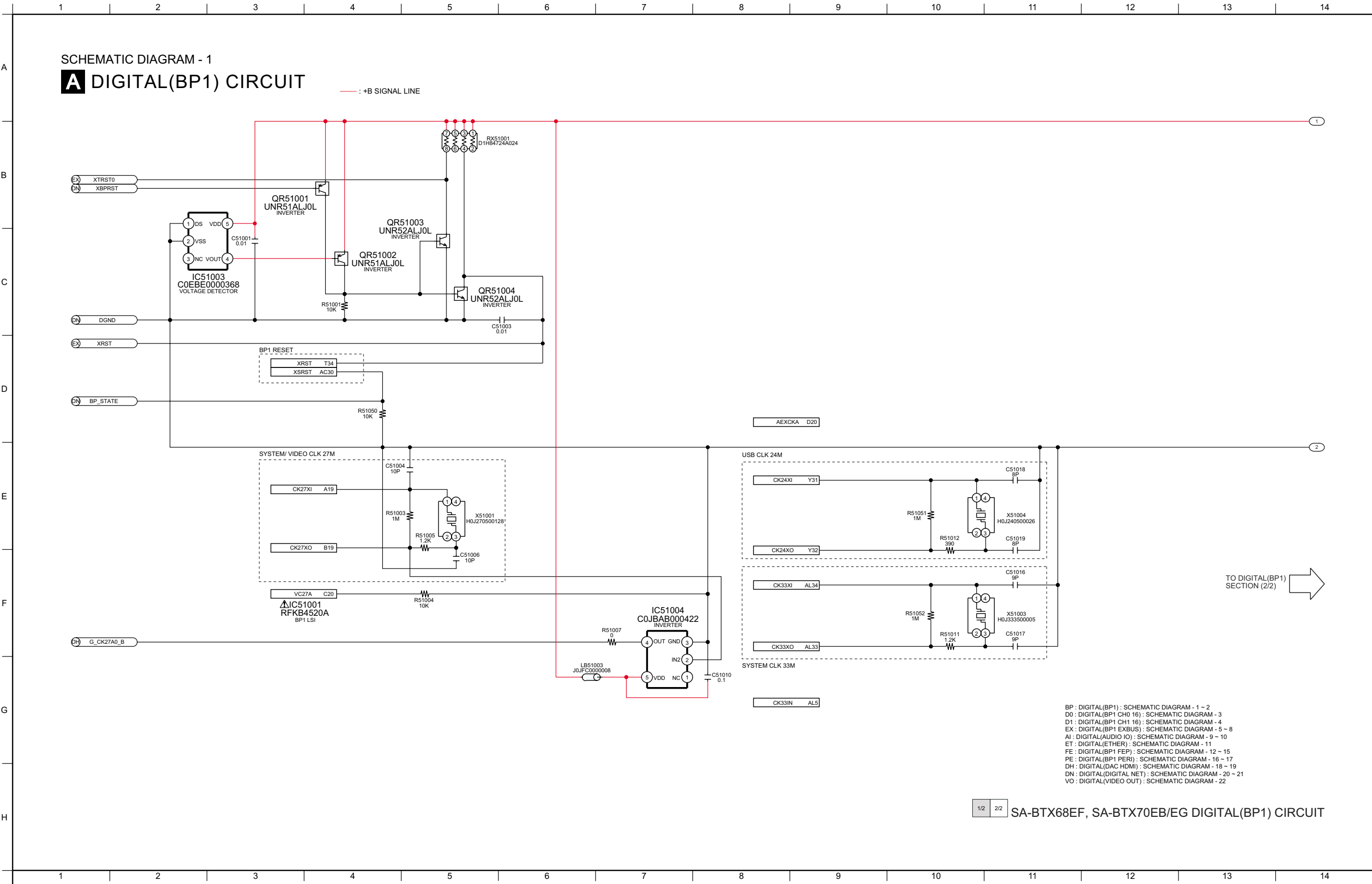
FUSE CAUTION



These symbols located near the fuse indicates that the fuse used is a fast operating type. For continued protection against fire harzard, replace with the same type fuse. For fuse rating, refer to the marking adjacent to the symbol.

16 Schematic Diagram

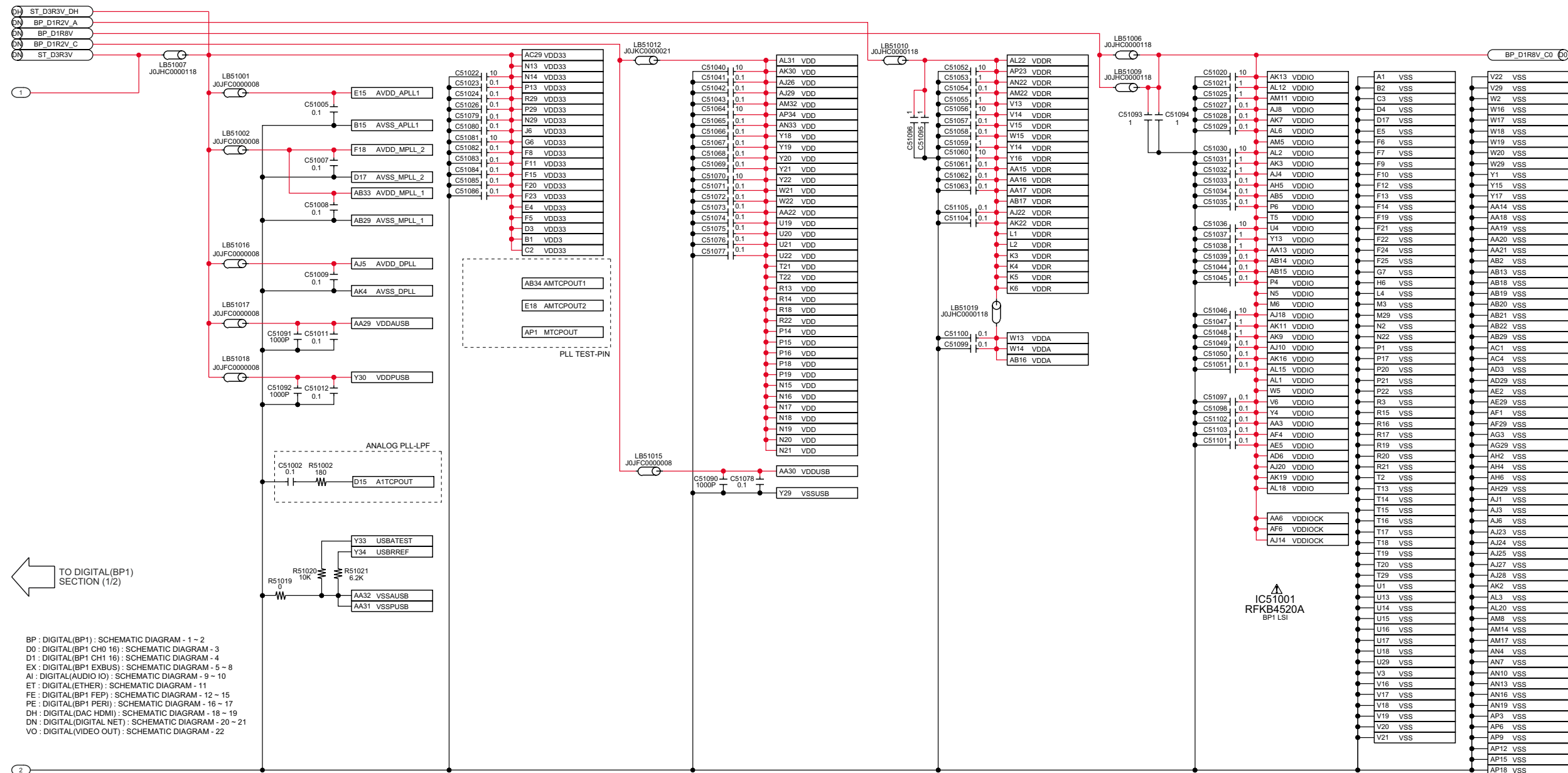
16.1. Digital Circuit



SCHEMATIC DIAGRAM - 2

A DIGITAL(BP1) CIRCUIT

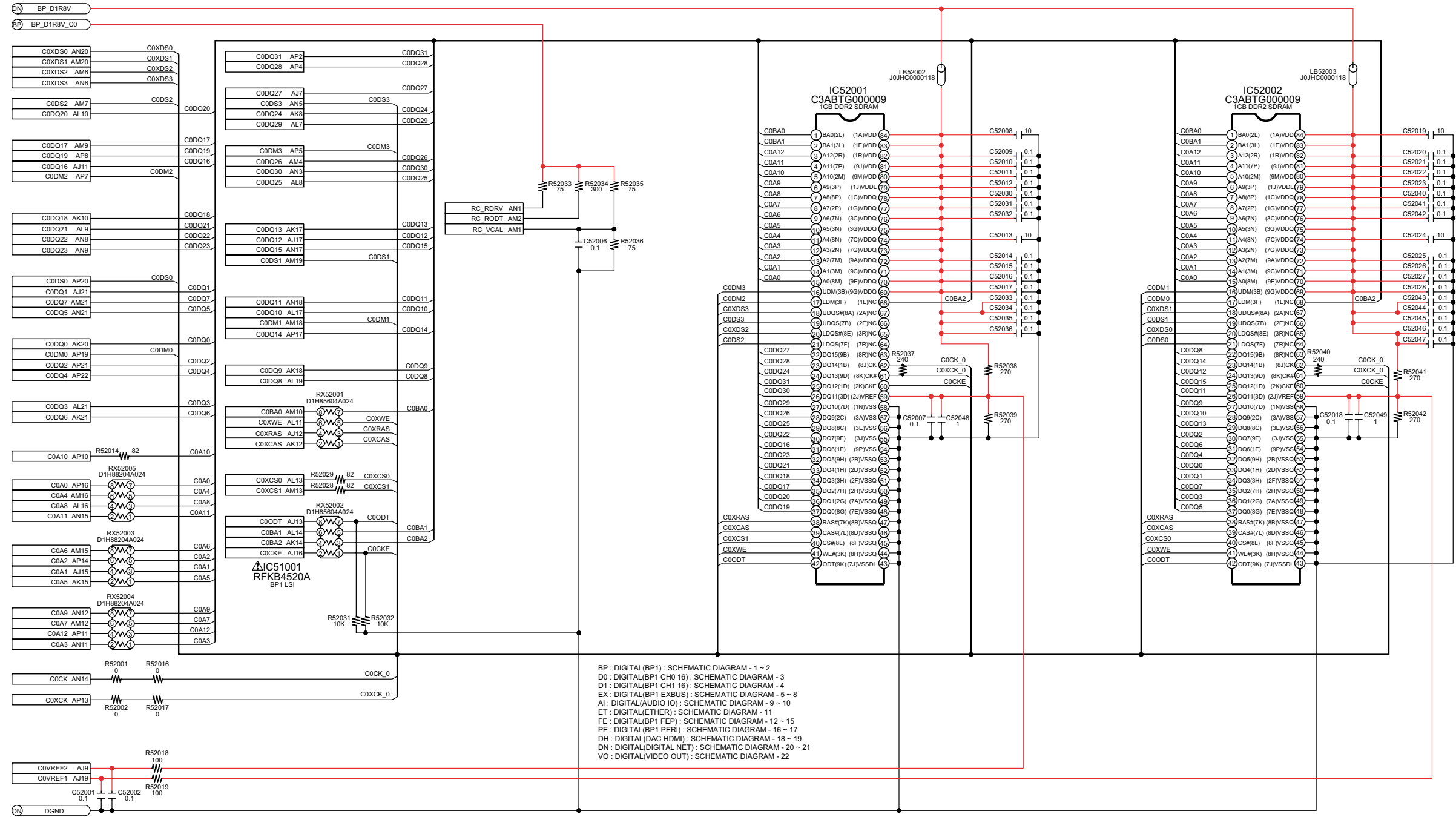
— : +B SIGNAL LINE



SCHEMATIC DIAGRAM - 3

A DIGITAL(BP1 CH0 16) CIRCUIT

— : +B SIGNAL LINE



SA-BTX68EF, SA-BTX70EB/EG DIGITAL(BP1 CH0 16) CIRCUIT

SCHEMATIC DIAGRAM - 4

A DIGITAL(BP1 CH1 16) CIRCUIT

— : +B SIGNAL LINE

BP1 D1R8V

C1XDS0	AF2
C1XDS1	AF3
C1XDS2	R2
C1XDS3	P2

C1DS2	R1
C1DQ20	P5

C1DQ16	N4
C1DQ17	R6
C1DQ19	T1
C1DM2	R4

C1DQ18	T4
C1DQ21	R5
C1DQ22	T3
C1DQ23	U3

C1DS0	AG2
C1DQ1	AG4
C1DQ7	AK1
C1DQ5	AG6

C1DQ0	AF5
C1DM0	AG1
C1DQ2	AH1
C1DQ4	AG5

C1DQ3	AJ2
C1DQ6	AH3

C1A10	U2
C1A0	AC5
C1A4	AB3
C1A8	AB1
C1A11	AB4

C1A6	AA2
C1A2	AA1
C1A1	AA4
C1A5	W4

C1A9	W1
C1A7	V2
C1A12	V1
C1A3	V4

C1CK	Y3
C1XCK	Y2

C1VREF2	N6
C1VREF1	AE6

C52201	0.1
C52202	0.1

DGND

C1DQ31	L5
C1DQ28	M2

C1DQ27	L3
C1DS3	P3
C1DQ24	M1
C1DM3	N1

C1DQ29	N3
C1DQ26	M5
C1DQ30	L6
C1DQ25	M4

C1DQ13	AC3
C1DQ12	AD2
C1DQ15	AC2
C1DS1	AE3

C1DQ11	AC6
C1DQ10	AE4
C1DM1	AE1
C1DQ14	AD1

C1DQ9	AD5
C1DQ8	AD4

C1BA0	T6
C1XWE	U5
C1XRS	U6
C1XCAS	W3

C1XCS0	V5
C1XCS1	W6

C1ODT	Y5
C1BA1	Y6
C1BA2	AA5
C1CKE	AB6

C1A6	AA2
C1A2	AA1
C1A1	AA4
C1A5	W4

C1A9	W1
C1A7	V2
C1A12	V1
C1A3	V4

C1CK	Y3
C1XCK	Y2

C1VREF2	N6
C1VREF1	AE6

C52201	0.1
C52202	0.1

C52201	0.1
C52202	0.1

C52201	0.1
C52202	0.1

C52201	0.1
C52202	0.1

C52201	0.1
C52202	0.1

C52201	0.1
C52202	0.1

C52201	0.1
C52202	0.1

C52201	0.1
C52202	0.1

C1BA0	1
C1BA1	2
C1A12	3
C1A11	4
C1A10	5
C1A9	6
C1A8	7
C1A7	8
C1A6	9
C1A5	10
C1A4	11
C1A3	12
C1A2	13
C1A1	14
C1A0	15

C1DM3	16
C1XDS3	17
C1DS3	18
C1XDS2	19
C1DS2	20

C1DQ31	21
C1DQ29	22
C1DQ26	23
C1DQ27	24
C1DQ28	25
C1DQ25	26
C1DQ24	27
C1DQ30	28
C1DQ19	29
C1DQ17	30
C1DQ23	31
C1DQ16	32
C1DQ20	33
C1DQ22	34
C1DQ21	35
C1DQ19	36

C1XRS	37
C1XCAS	38
C1XCS1	39
C1XWE	40
C1ODT	41

C1BA0	42
C1BA1	43
C1BA2	44
C1CKE	45

C1BA0	46
C1BA1	47
C1BA2	48
C1CKE	49

C1BA0	50
C1BA1	51
C1BA2	52
C1CKE	53

C1BA0	54
C1BA1	55
C1BA2	56
C1CKE	57

C1BA0	58
C1BA1	59
C1BA2	60
C1CKE	61

C1BA0	62
C1BA1	63
C1BA2	64
C1CKE	65

C1BA0	66
C1BA1	67
C1BA2	68
C1CKE	69

C1BA0	70
C1BA1	71
C1BA2	72
C1CKE	73

C1BA0	74
C1BA1	75
C1BA2	76
C1CKE	77

C1BA0	78
C1BA1	79
C1BA2	80
C1CKE	81

C1BA0	82
C1BA1	83
C1BA2	84
C1CKE	85

C1BA0	86
C1BA1	87
C1BA2	88
C1CKE	89

C1BA0	90
C1BA1	91
C1BA2	92
C1CKE	93

C1BA0	94
C1BA1	95
C1BA2	96
C1CKE	97

C1BA0	98
C1BA1	99
C1BA2	100
C1CKE	101

C1BA0	102
C1BA1	103
C1BA2	104
C1CKE	105

C1BA0	106
C1BA1	107
C1BA2	108
C1CKE	109

C1BA0	110
C1BA1	111
C1BA2	112
C1CKE	113

C1BA0	114
C1BA1	115
C1BA2	116
C1CKE	117

C1BA0	118
C1BA1	119
C1BA2	120
C1CKE	121

C1BA0	122
C1BA1	123
C1BA2	124
C1CKE	125

C1BA0	126
C1BA1	127
C1BA2	128
C1CKE	129

C1BA0	130
C1BA1	131
C1BA2	132
C1CKE	133

C1BA0	134
C1BA1	135
C1BA2	136
C1CKE	137

C1BA0	138
C1BA1	139
C1BA2	140
C1CKE	141

C1BA0	142
C1BA1	143
C1BA2	144
C1CKE	145

C1BA0	146
C1BA1	147
C1BA2	148
C1CKE	149

C1BA0	150
C1BA1	151
C1BA2	152
C1CKE	153

C1BA0	154
C1BA1	155
C1BA2	156
C1CKE	157

C1BA0	158
C1BA1	159
C1BA2	160
C1CKE	161

C1BA0	162
C1BA1	163
C1BA2	164
C1CKE	165

C1BA0	166
C1BA1	167
C1BA2	168
C1CKE	169

C1BA0	170
C1BA1	171
C1BA2	172
C1CKE	173

C1BA0	174
C1BA1	175
C1BA2	176
C1CKE	177

C1BA0	178
C1BA1	179
C1BA2	180
C1CKE	181

C1BA0	182
C1BA1	183
C1BA2	184
C1CKE	185

C1BA0	186
C1BA1	187
C1BA2	188
C1CKE	189

C1BA0	190
C1BA1	191
C1BA2	192
C1CKE	193

C1BA0	194
C1BA1	195
C1BA2	196
C1CKE	197

C1BA0	198
C1BA1	199
C1BA2	200
C1CKE	201

C1BA0	1
C1BA1	2
C1A12	3
C1A11	4
C1A10	5
C1A9	6
C1A8	7
C1A7	8
C1A6	9
C1A5	10
C1A4	11
C1A3	12
C1A2	13
C1A1	14
C1A0	15

C1DM1	16
C1XDS1	17
C1DS1	18
C1XDS0	19
C1DS0	20

C1DQ8	21
C1DQ14	22
C1DQ9	23
C1DQ15	24
C1DQ12	25
C1DQ10	26
C1DQ13	27
C1DQ11	28
C1DQ2	29
C1DQ5	30
C1DQ7	31
C1DQ0	32
C1DQ4	33
C1DQ3	34
C1DQ1	35
C1DQ6	36

C1XRS	37
C1XCAS	38
C1XCS0	39
C1XWE	40
C1ODT	41

C1BA0	42
C1BA1	43
C1BA2	44
C1CKE	45

C1BA0	46
C1BA1	47
C1BA2	48
C1CKE	49

C1BA0	50
C1BA1	51
C1BA2	52
C1CKE	53

C1BA0	54
C1BA1	55
C1BA2	56
C1CKE	57

C1BA0	58
C1BA1	59
C1BA2	60
C1CKE	61

C1BA0	62
C1BA1	63
C1BA2	64
C1CKE	65

C1BA0	66
C1BA1	67
C1BA2	68
C1CKE	69

C1BA0	70
C1BA1	71
C1BA2	72
C1CKE	73

C1BA0	74
C1BA1	75
C1BA2	76
C1CKE	77

C1BA0	78
C1BA1	79
C1BA2	80
C1CKE	81

C1BA0	82
C1BA1	83
C1BA2	84
C1CKE	85

C1BA0	86
C1BA1	87
C1BA2	88
C1CKE	89

C1BA0	90
C1BA1	91
C1BA2	92
C1CKE	93

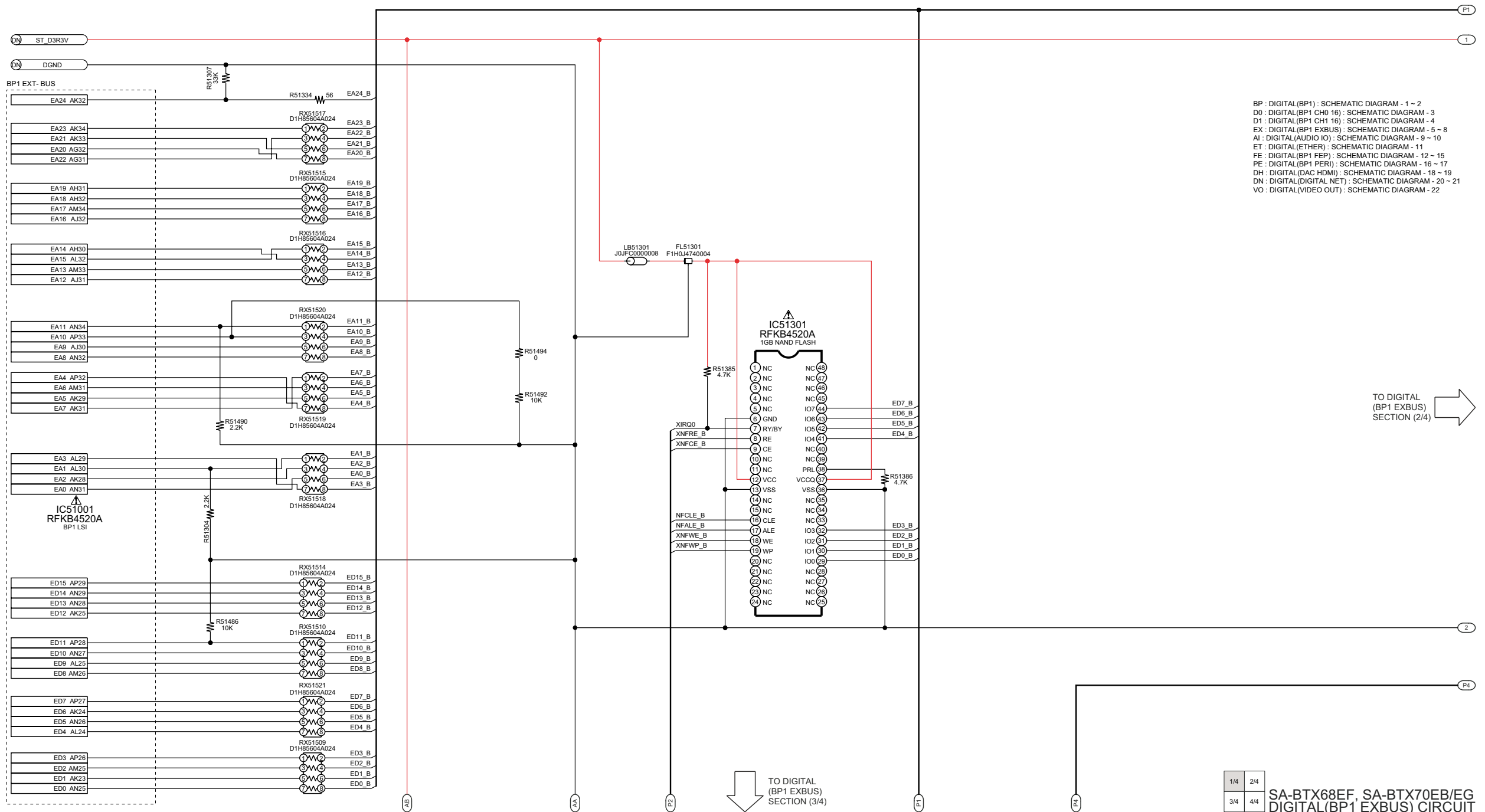
C1BA0	94
C1BA1	95
C1BA2	96
C1CKE	97

C1BA0	9
-------	---

SCHEMATIC DIAGRAM - 5

A DIGITAL(BP1 EXBUS) CIRCUIT

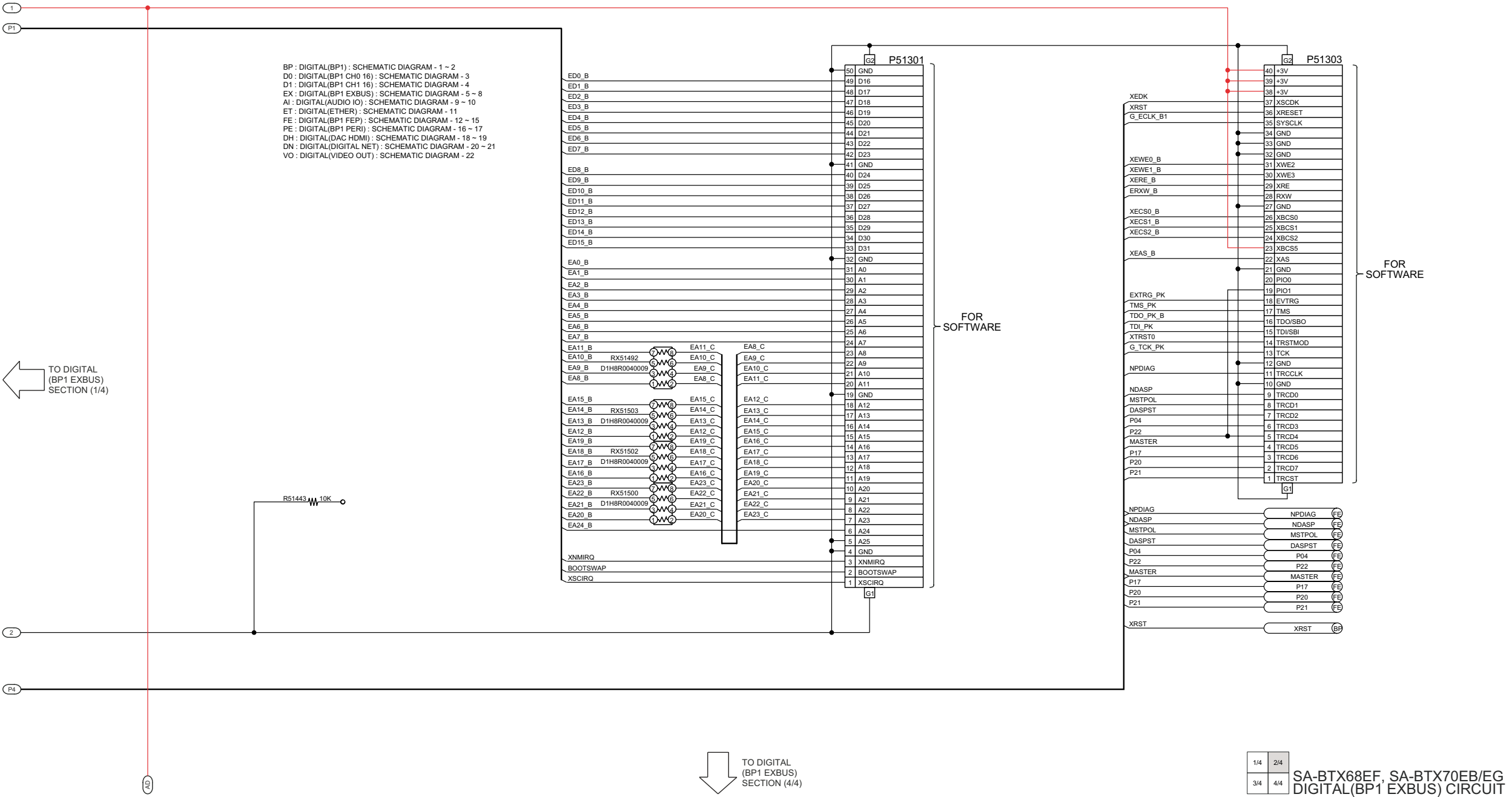
— : +B SIGNAL LINE



SCHEMATIC DIAGRAM - 6

A DIGITAL(BP1 EXBUS) CIRCUIT

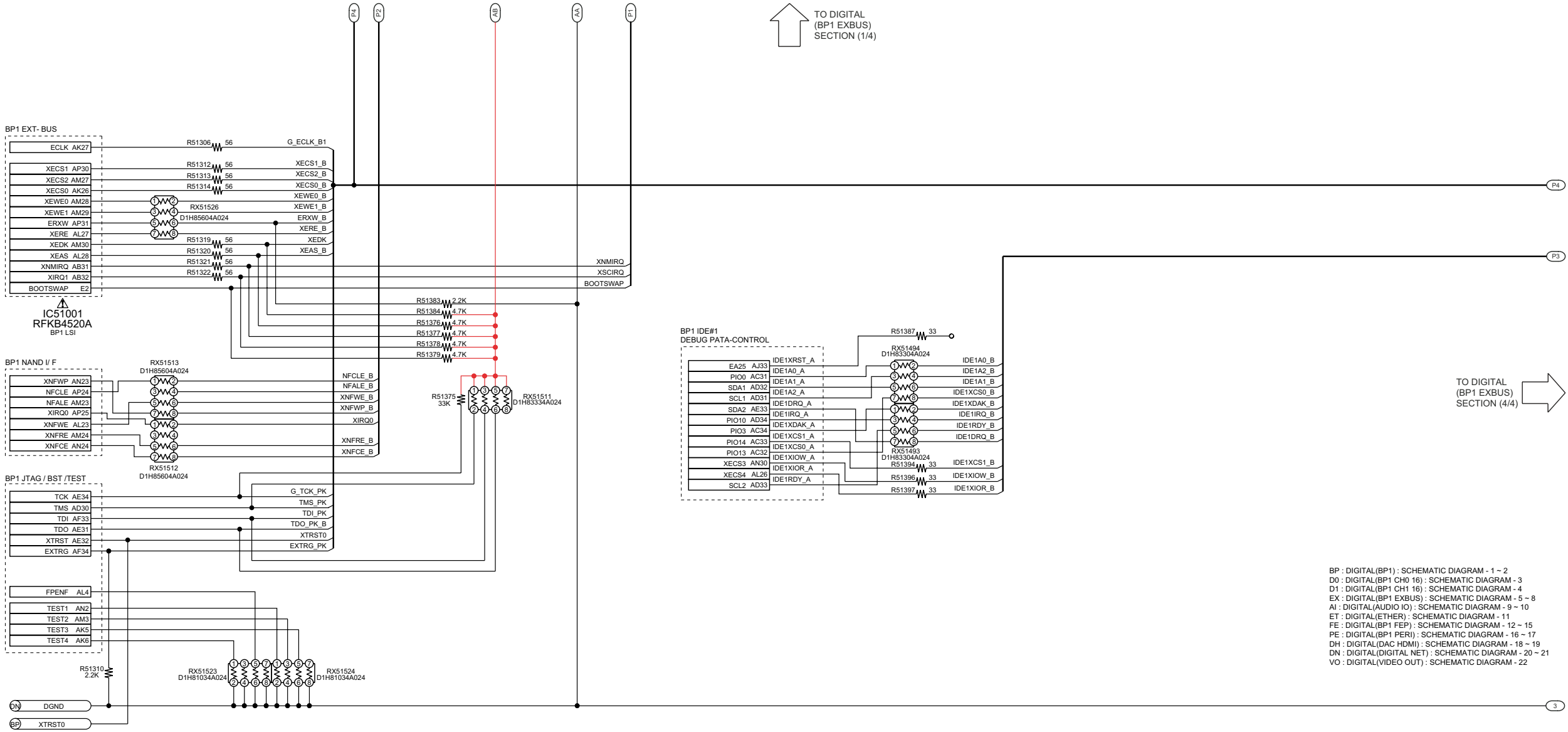
— : +B SIGNAL LINE



SCHEMATIC DIAGRAM - 7

A DIGITAL(BP1 EXBUS) CIRCUIT

— : +B SIGNAL LINE

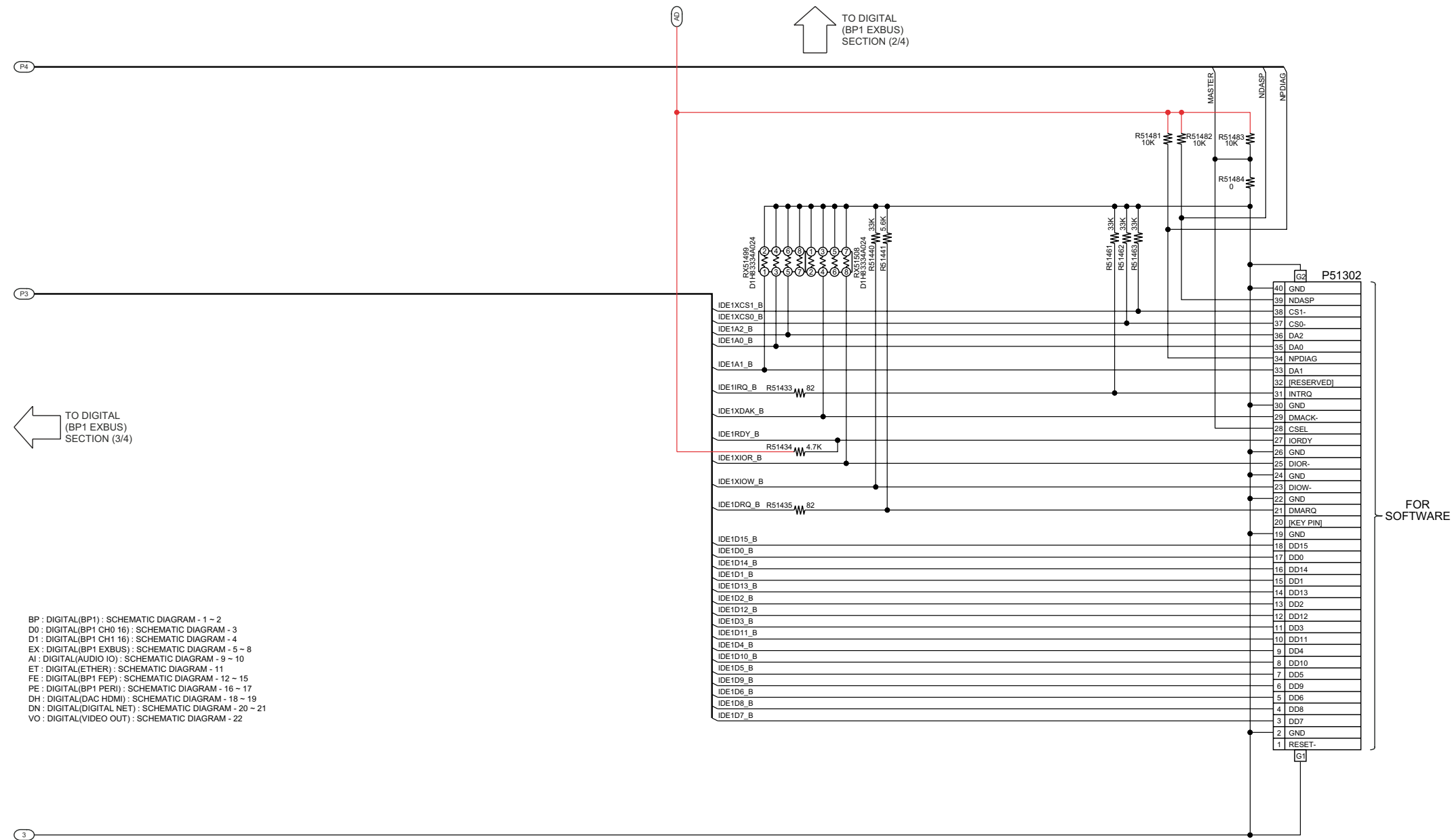


BP : DIGITAL(BP1) : SCHEMATIC DIAGRAM - 1 ~ 2
D0 : DIGITAL(BP1 CH0 16) : SCHEMATIC DIAGRAM - 3
D1 : DIGITAL(BP1 CH1 16) : SCHEMATIC DIAGRAM - 4
EX : DIGITAL(BP1 EXBUS) : SCHEMATIC DIAGRAM - 5 ~ 8
AI : DIGITAL(AUDIO IO) : SCHEMATIC DIAGRAM - 9 ~ 10
ET : DIGITAL(ETHER) : SCHEMATIC DIAGRAM - 11
FE : DIGITAL(BP1 FEP) : SCHEMATIC DIAGRAM - 12 ~ 15
PE : DIGITAL(BP1 PERI) : SCHEMATIC DIAGRAM - 16 ~ 19
DH : DIGITAL(DAC HDMI) : SCHEMATIC DIAGRAM - 18 ~ 19
DN : DIGITAL(DIGITAL NET) : SCHEMATIC DIAGRAM - 20 ~ 21
VO : DIGITAL(VIDEO OUT) : SCHEMATIC DIAGRAM - 22

1/4 2/4
3/4 4/4
SA-BTX68EF, SA-BTX70EB/EG
DIGITAL(BP1 EXBUS) CIRCUIT

A DIGITAL(BP1 EXBUS) CIRCUIT

— : +B SIGNAL LINE



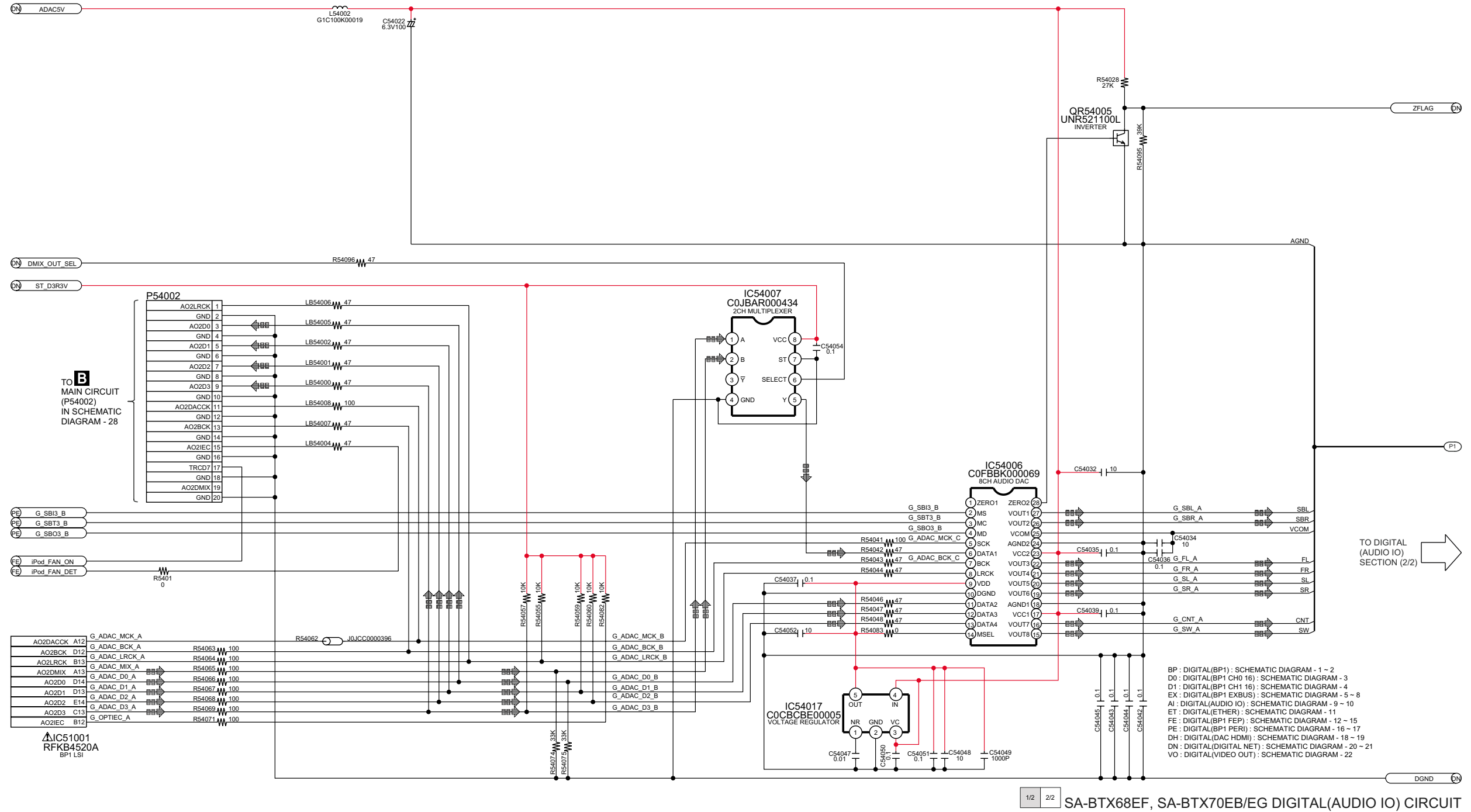
BP : DIGITAL(BP1) : SCHEMATIC DIAGRAM - 1 ~ 2
D0 : DIGITAL(BP1 CHO 16) : SCHEMATIC DIAGRAM - 3
D1 : DIGITAL(BP1 CH1 16) : SCHEMATIC DIAGRAM - 4
EX : DIGITAL(BP1 EXBUS) : SCHEMATIC DIAGRAM - 5 ~ 8
AI : DIGITAL(AUDIO IO) : SCHEMATIC DIAGRAM - 9 ~ 10
ET : DIGITAL(ETHER) : SCHEMATIC DIAGRAM - 11
FE : DIGITAL(BP1 FEP) : SCHEMATIC DIAGRAM - 12 ~ 15
PE : DIGITAL(BP1 PER) : SCHEMATIC DIAGRAM - 16 ~ 17
DH : DIGITAL(DAC DEM) : SCHEMATIC DIAGRAM - 18 ~ 19
DN : DIGITAL(DIGITAL NET) : SCHEMATIC DIAGRAM - 20 ~ 21
VO : DIGITAL(VIDEO OUT) : SCHEMATIC DIAGRAM - 22

$\frac{1}{4}$	$\frac{2}{4}$
$\frac{3}{4}$	$\frac{4}{4}$

SA-BTX68EF, SA-BTX70EB/EG
DIGITAL(BP1 EXBUS) CIRCUIT

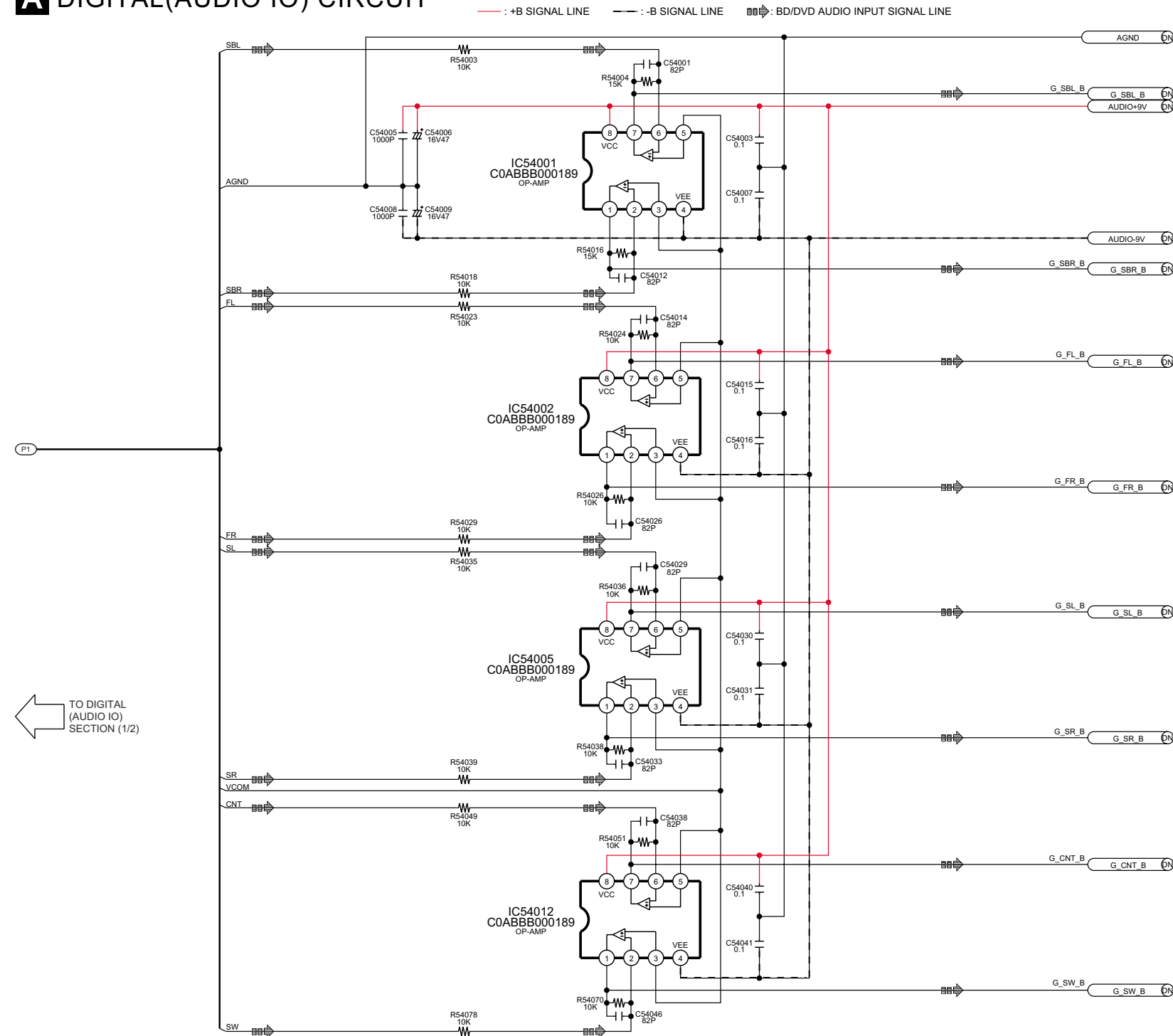
A DIGITAL(AUDIO IO) CIRCUIT

— : +B SIGNAL LINE — : -B SIGNAL LINE : BD/DVD AUDIO INPUT SIGNAL LINE



SCHEMATIC DIAGRAM - 10

A DIGITAL(AUDIO IO) CIRCUIT

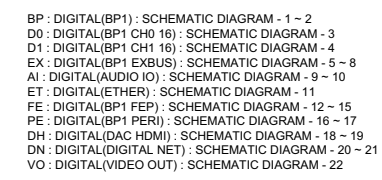


1/2 2/2

SA-BTX68EF, SA-BTX70EB/EG DIGITAL(AUDIO IO) CIRCUIT

A DIGITAL(ETHER) CIRCUIT

— : +B SIGNAL LINE  : OPTICAL AUDIO INPUT SIGNAL LINE  : LAN SIGNAL LINE

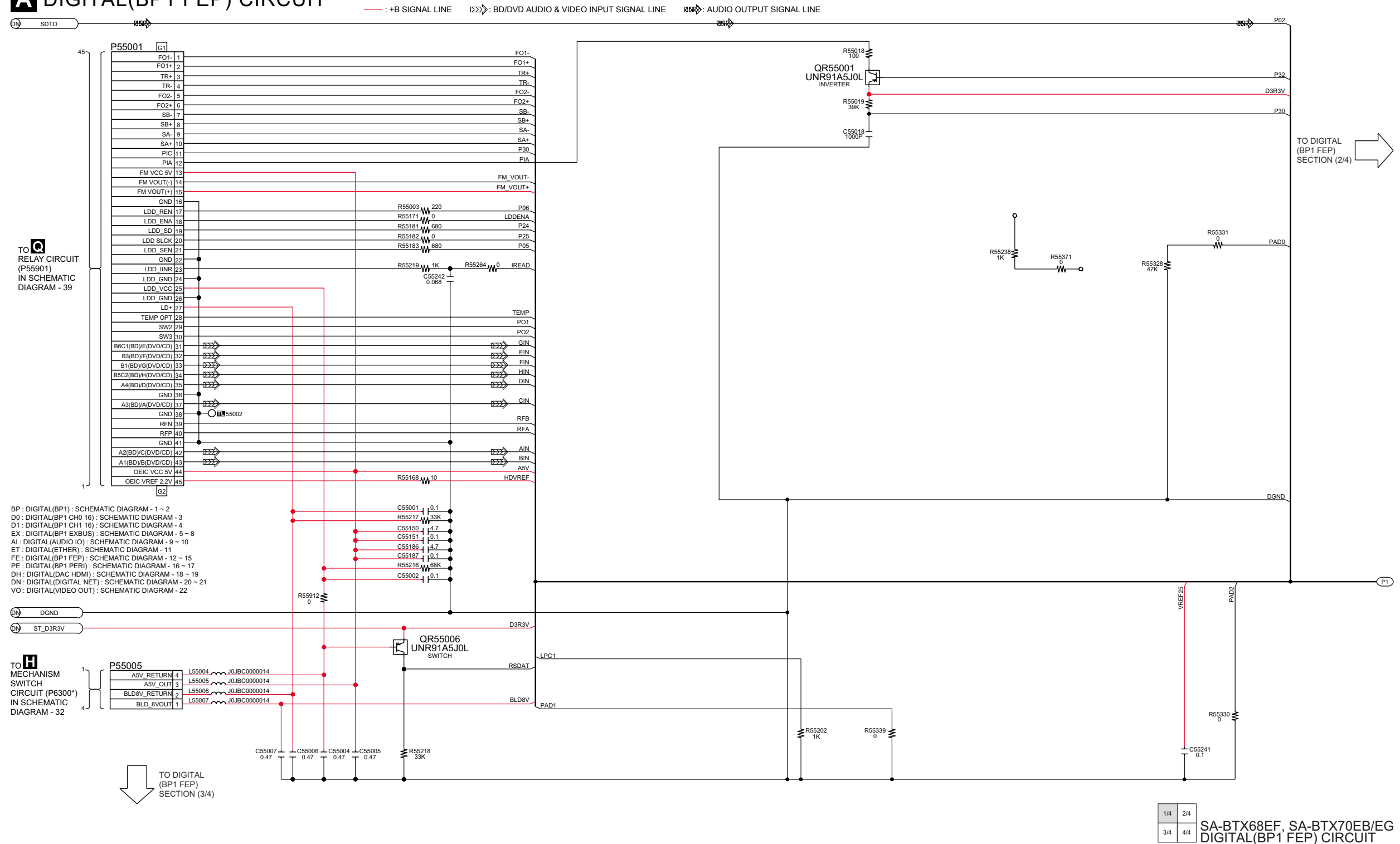


SA-BTX68EF, SA-BTX70EB/EG DIGITAL(ETHER) CIRCUIT

SCHEMATIC DIAGRAM - 12

A

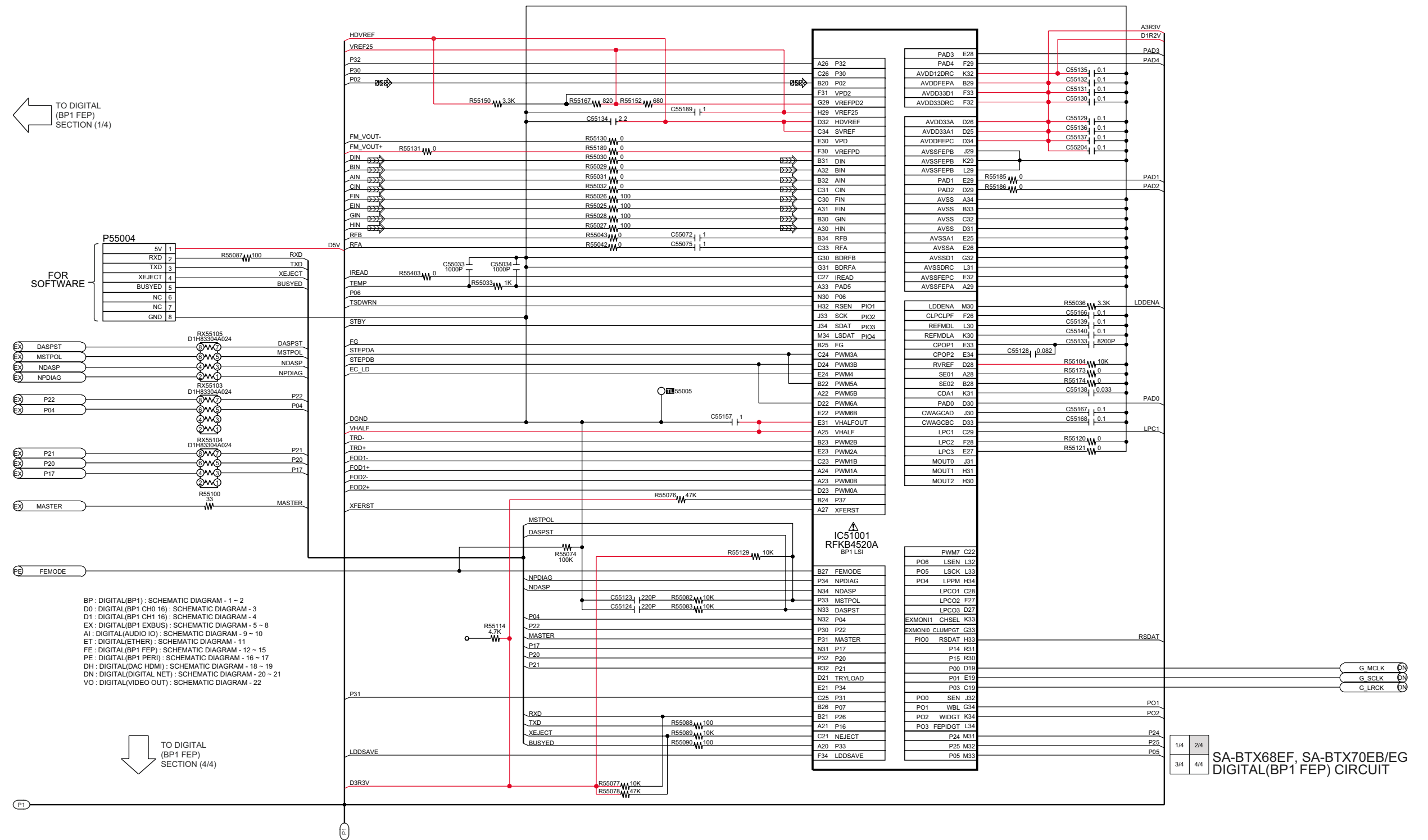
DIGITAL(BP1 FEP) CIRCUIT



SCHEMATIC DIAGRAM - 13

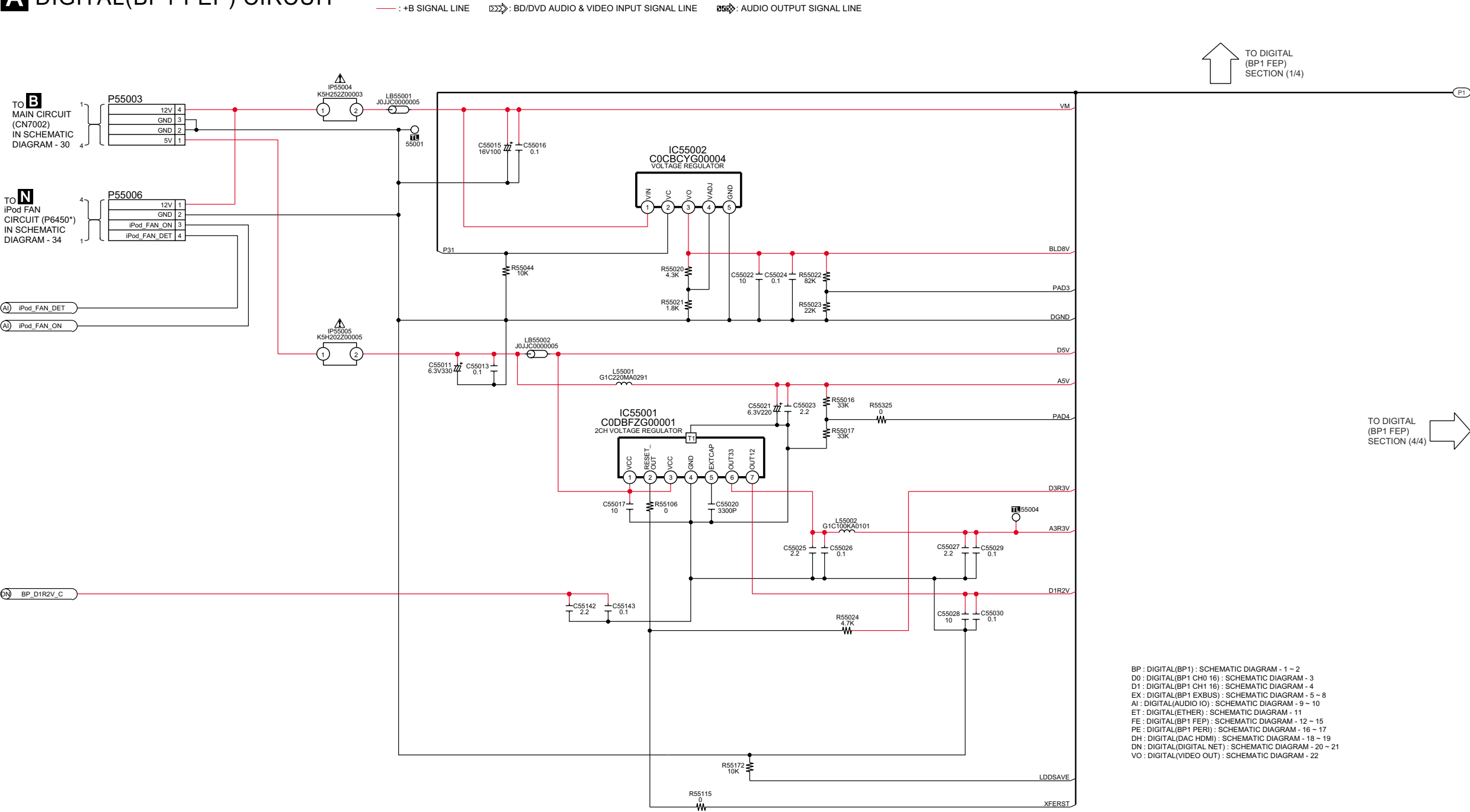
A DIGITAL(BP1 FEP) CIRCUIT

— : +B SIGNAL LINE <><> : BD/DVD AUDIO & VIDEO INPUT SIGNAL LINE <=> : AUDIO OUTPUT SIGNAL LINE



SCHEMATIC DIAGRAM - 14

A DIGITAL(BP1 FEP) CIRCUIT



BP : DIGITAL(BP1) : SCHEMATIC DIAGRAM - 1 ~ 2
D0 : DIGITAL(BP1 CH0 16) : SCHEMATIC DIAGRAM - 3
D1 : DIGITAL(BP1 CH1 16) : SCHEMATIC DIAGRAM - 4
EX : DIGITAL(BP1 EXBUS) : SCHEMATIC DIAGRAM - 5 ~ 8
AI : DIGITAL(AUDIO IO) : SCHEMATIC DIAGRAM - 9 ~ 10
ET : DIGITAL(ETHER) : SCHEMATIC DIAGRAM - 11
FE : DIGITAL(BP1 FEP) : SCHEMATIC DIAGRAM - 12 ~ 15
PE : DIGITAL(BP1 PERI) : SCHEMATIC DIAGRAM - 16 ~ 17
DH : DIGITAL(DAC HDMI) : SCHEMATIC DIAGRAM - 18 ~ 19
DN : DIGITAL(DIGITAL NET) : SCHEMATIC DIAGRAM - 20 ~ 21
VO : DIGITAL(VIDEO OUT) : SCHEMATIC DIAGRAM - 22

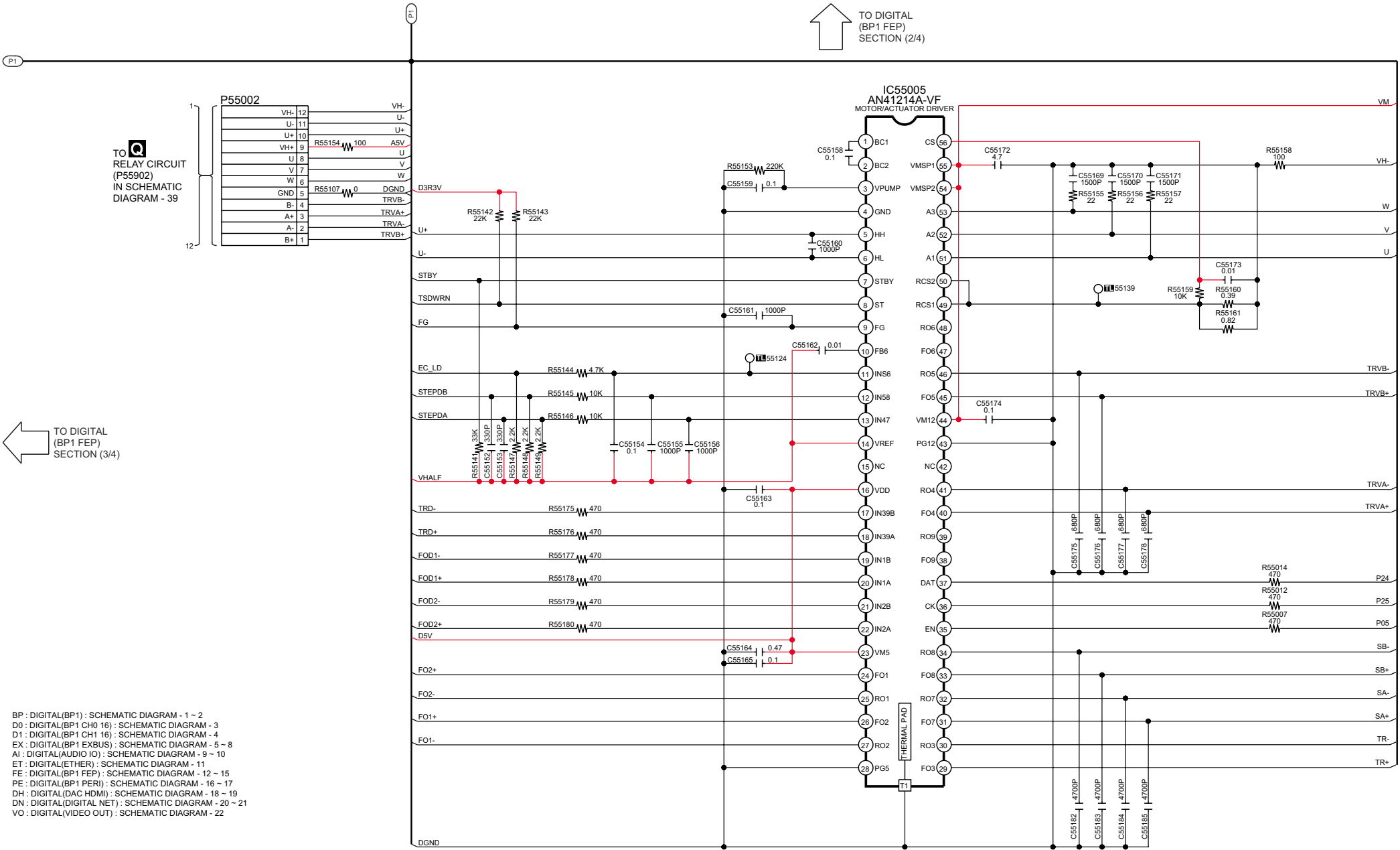
1/4	2/4
3/4	4/4

SA-BTX68EF, SA-BTX70EB/EG
DIGITAL(BP1 FEP) CIRCUIT

SCHEMATIC DIAGRAM - 15

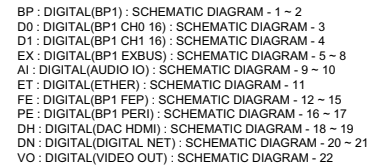
A DIGITAL(BP1 FEP) CIRCUIT

— : +B SIGNAL LINE  : BD/DVD AUDIO & VIDEO INPUT SIGNAL LINE  : AUDIO OUTPUT SIGNAL LINE



A DIGITAL(BP1 PERI) CIRCUIT

— : +B SIGNAL LINE  : SD/USB SIGNAL LINE



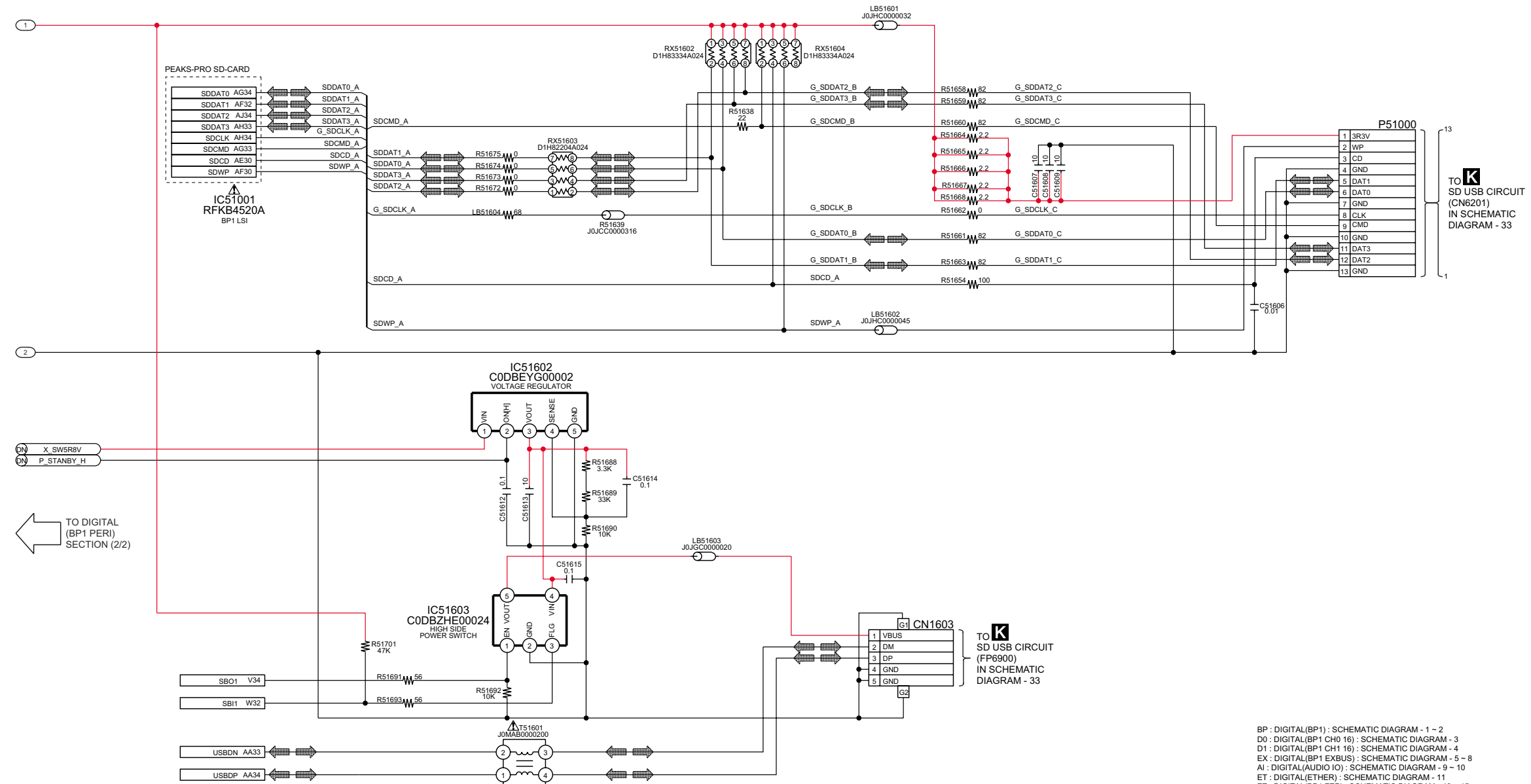
TO DIGITAL
(BP1 PERI)
SECTION (2/2)

SA-BTX68EF, SA-BTX70EB/EG DIGITAL(BP1 PERI) CIRCUIT

SCHEMATIC DIAGRAM - 17

A DIGITAL(BP1 PERI) CIRCUIT

— : +B SIGNAL LINE ⇄ : SD/USB SIGNAL LINE

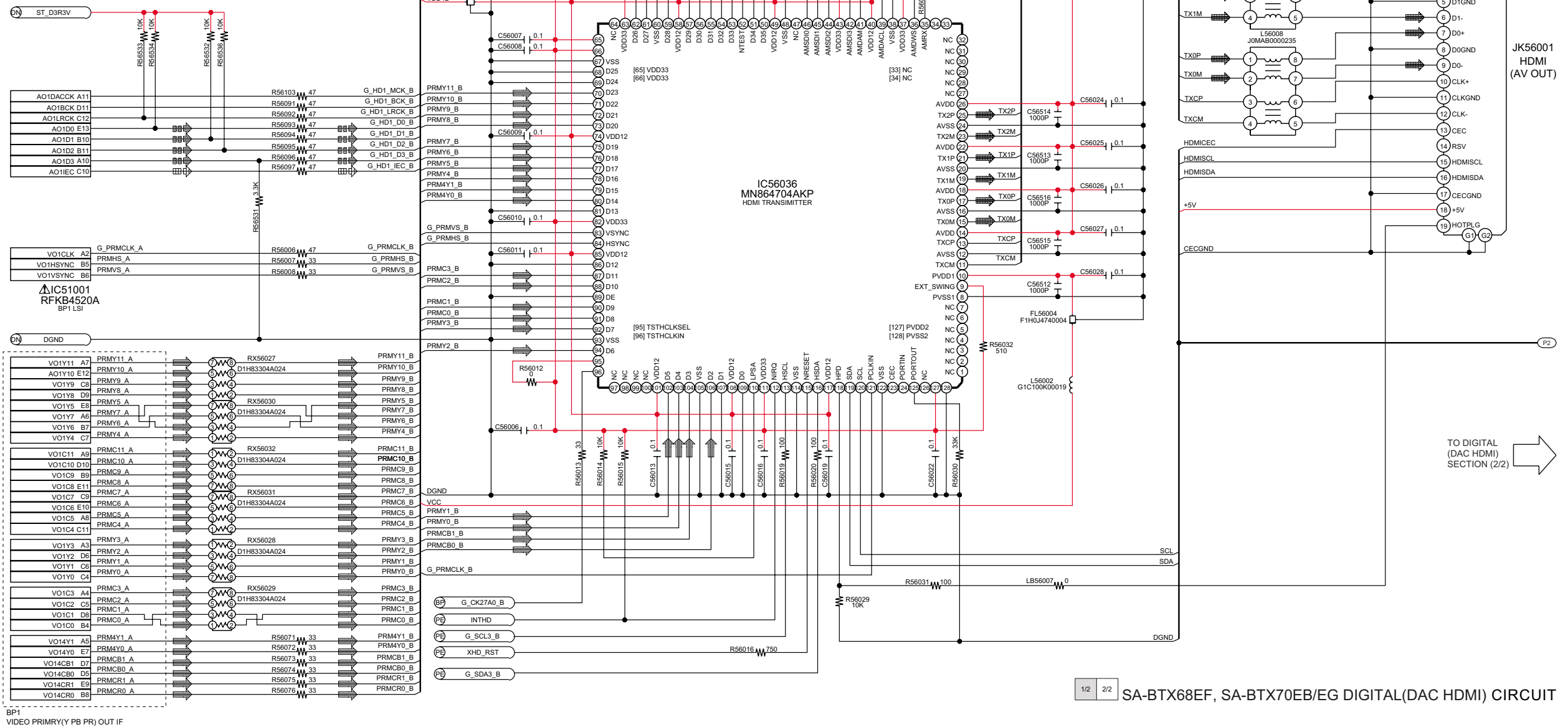


1/2 2/2 SA-BTX68EF, SA-BTX70EB/EG DIGITAL(BP1 PERI) CIRCUIT

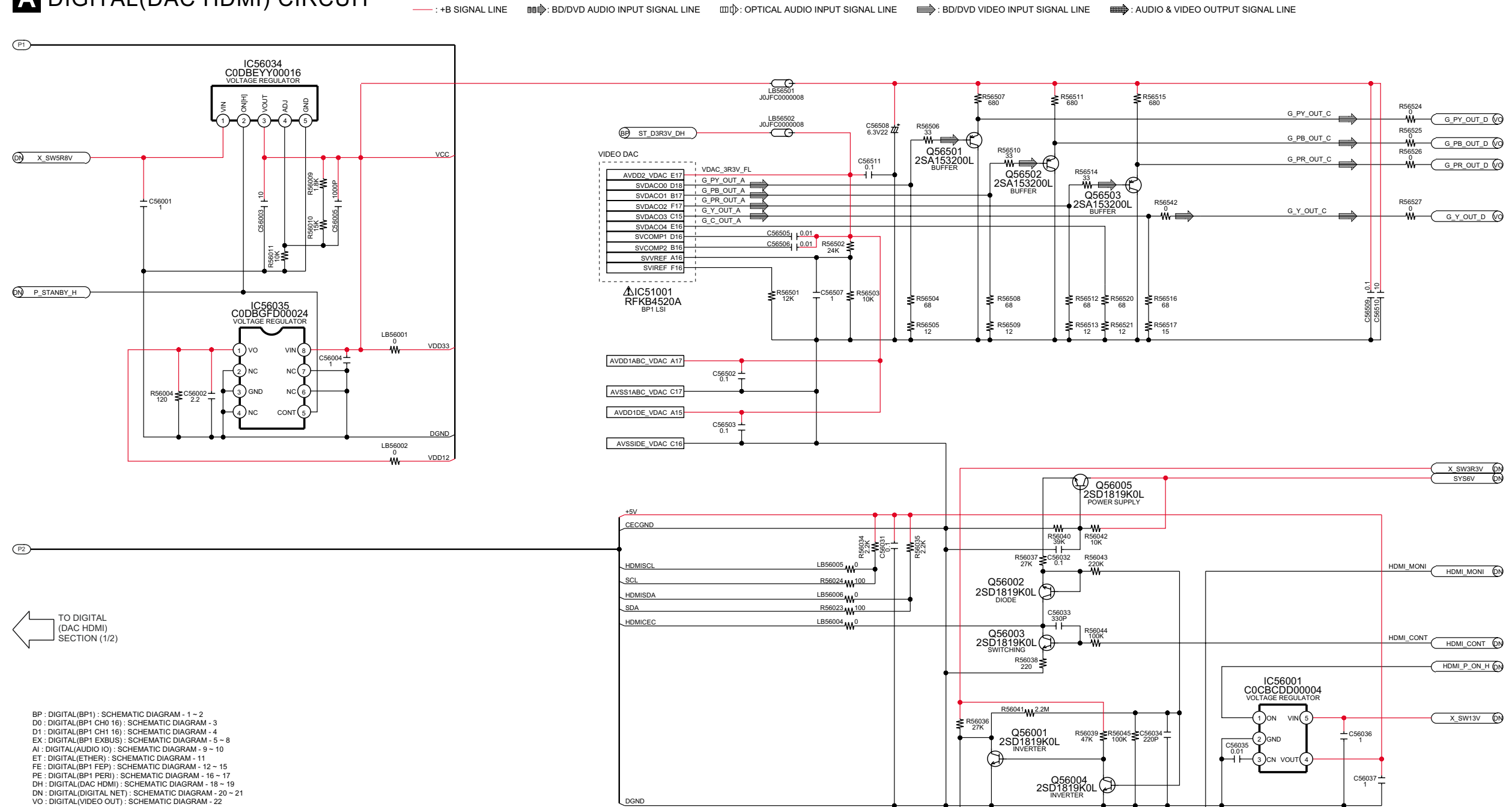
SCHEMATIC DIAGRAM - 18

A DIGITAL(DAC HDMI) CIRCUIT

BP : DIGITAL(BP1) : SCHEMATIC DIAGRAM - 1 ~ 2
D0 : DIGITAL(BP1 CH0 16) : SCHEMATIC DIAGRAM - 3
D1 : DIGITAL(BP1 CH1 16) : SCHEMATIC DIAGRAM - 4
EX : DIGITAL(BP1 EXBUS) : SCHEMATIC DIAGRAM - 5 ~ 8
AI : DIGITAL(AUDIO IO) : SCHEMATIC DIAGRAM - 9 ~ 10
ET : DIGITAL(ETHER) : SCHEMATIC DIAGRAM - 11
FE : DIGITAL(BP1 FEP) : SCHEMATIC DIAGRAM - 12 ~ 15
PE : DIGITAL(BP1 PERI) : SCHEMATIC DIAGRAM - 16 ~ 17
DH : DIGITAL(DAC HDMI) : SCHEMATIC DIAGRAM - 18 ~ 19
DN : DIGITAL(DIGITAL NET) : SCHEMATIC DIAGRAM - 20 ~ 21
VO : DIGITAL(VIDEO OUT) : SCHEMATIC DIAGRAM - 22



SCHEMATIC DIAGRAM - 19

A DIGITAL(DAC HDMI) CIRCUIT

1/2 2/2 SA-BTX68EF, SA-BTX70EB/EG DIGITAL(DAC HDMI) CIRCUIT

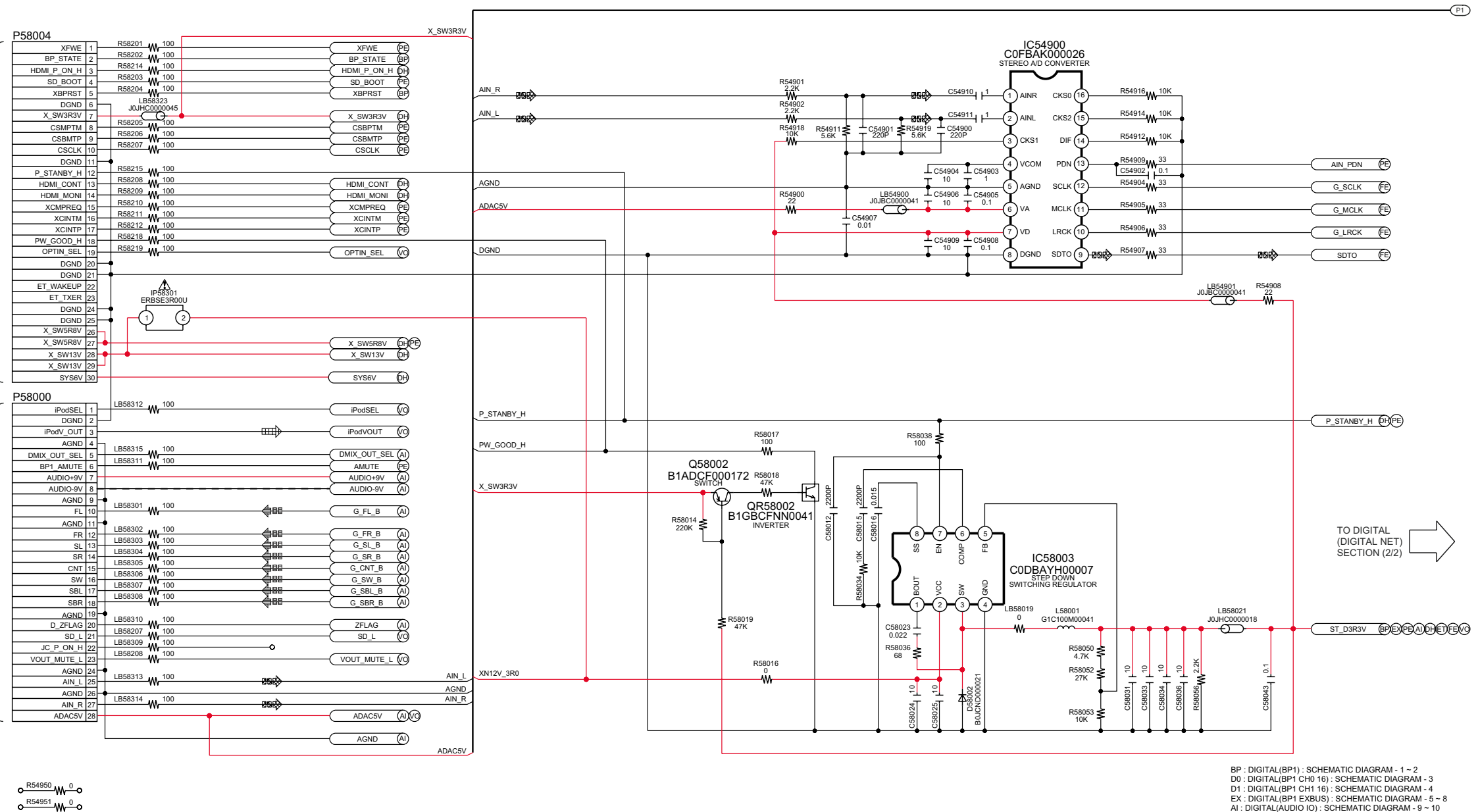
SCHEMATIC DIAGRAM - 20

DIGITAL(DIGITAL NET) CIRCUIT

— : +B SIGNAL LINE — : -B SIGNAL LINE : BD/DVD AUDIO INPUT SIGNAL LINE : iPod VIDEO INPUT SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE

TO **B**
MAIN CIRCUIT
(CN501)
IN SCHEMATIC
DIAGRAM - 28

TO **B**
MAIN CIRCUIT
(CN502)
IN SCHEMATIC
DIAGRAM - 28

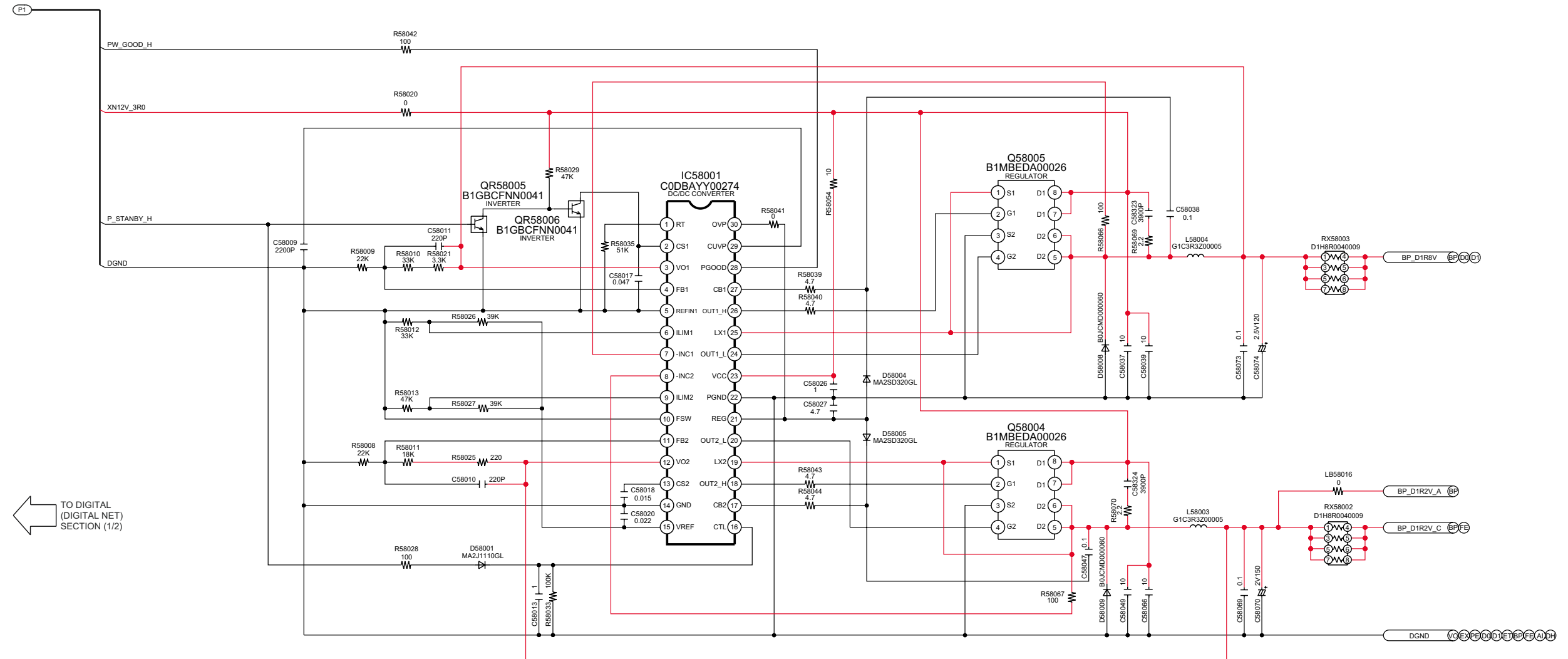


1/2 2/2 SA-BTX68EF, SA-BTX70EB/EG DIGITAL(DIGITAL NET) CIRCUIT

SCHEMATIC DIAGRAM - 21

A DIGITAL(DIGITAL NET) CIRCUIT

— : +B SIGNAL LINE — : -B SIGNAL LINE : BD/DVD AUDIO INPUT SIGNAL LINE : iPod VIDEO INPUT SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE

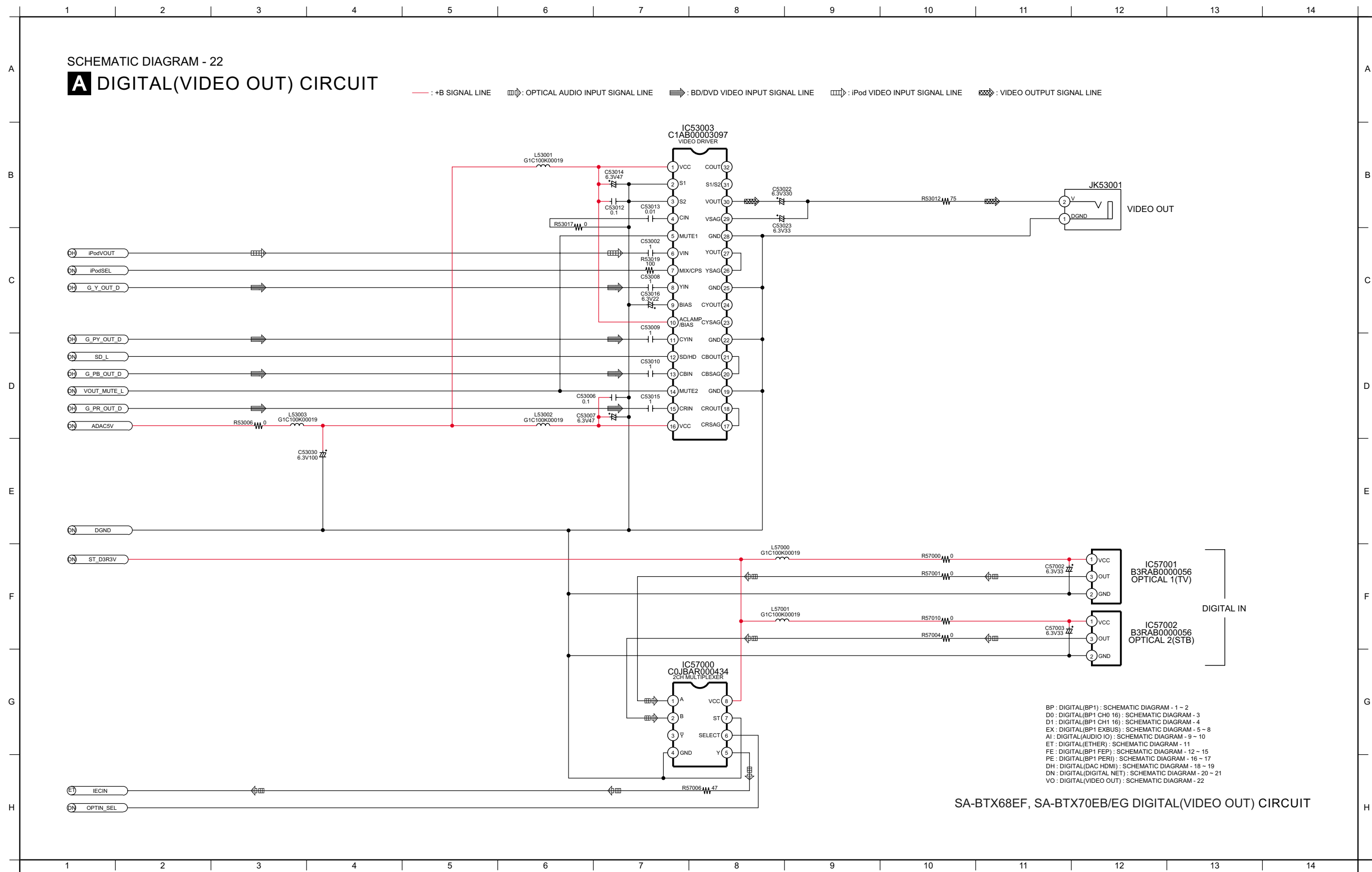


TO DIGITAL
(DIGITAL NET)
SECTION (1/2)

BP : DIGITAL(BP1) : SCHEMATIC DIAGRAM - 1 ~ 2
DO : DIGITAL(BP1 CH0 16) : SCHEMATIC DIAGRAM - 3
D1 : DIGITAL(BP1 CH1 16) : SCHEMATIC DIAGRAM - 4
EX : DIGITAL(BP1 EXBUS) : SCHEMATIC DIAGRAM - 5 ~ 8
AI : DIGITAL(AUDIO IO) : SCHEMATIC DIAGRAM - 9 ~ 10
ET : DIGITAL(ETHER) : SCHEMATIC DIAGRAM - 11
FE : DIGITAL(BP1 FEP) : SCHEMATIC DIAGRAM - 12 ~ 15
PE : DIGITAL(BP1 PERI) : SCHEMATIC DIAGRAM - 16 ~ 17
DH : DIGITAL(DAC HDMI) : SCHEMATIC DIAGRAM - 18 ~ 19
DN : DIGITAL(DIGITAL NET) : SCHEMATIC DIAGRAM - 20 ~ 21
VO : DIGITAL(VIDEO OUT) : SCHEMATIC DIAGRAM - 22

1/2 2/2

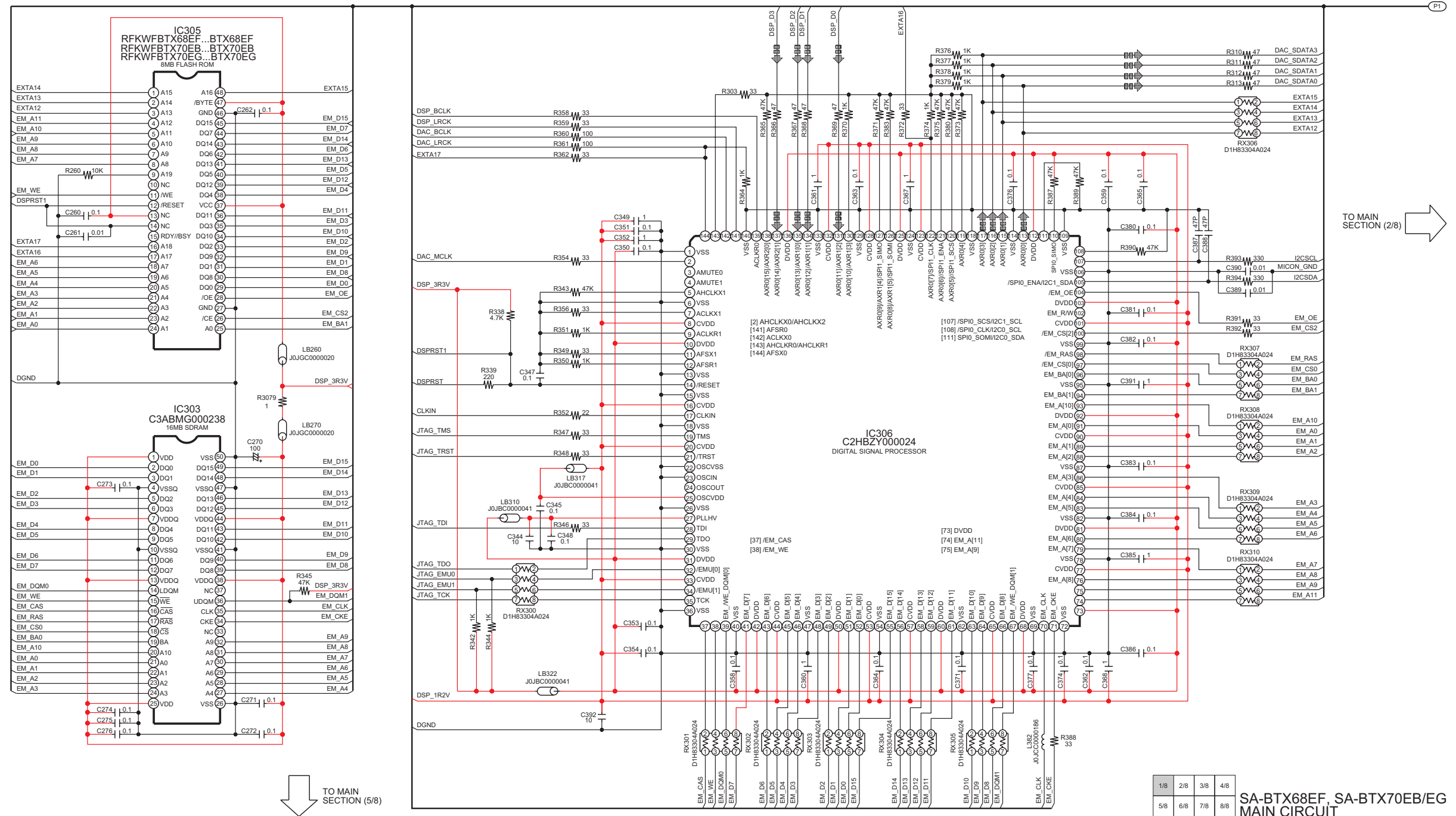
SA-BTX68EF, SA-BTX70EB/EG DIGITAL(DIGITAL NET) CIRCUIT



16.2. Main Circuit

SCHEMATIC DIAGRAM - 23

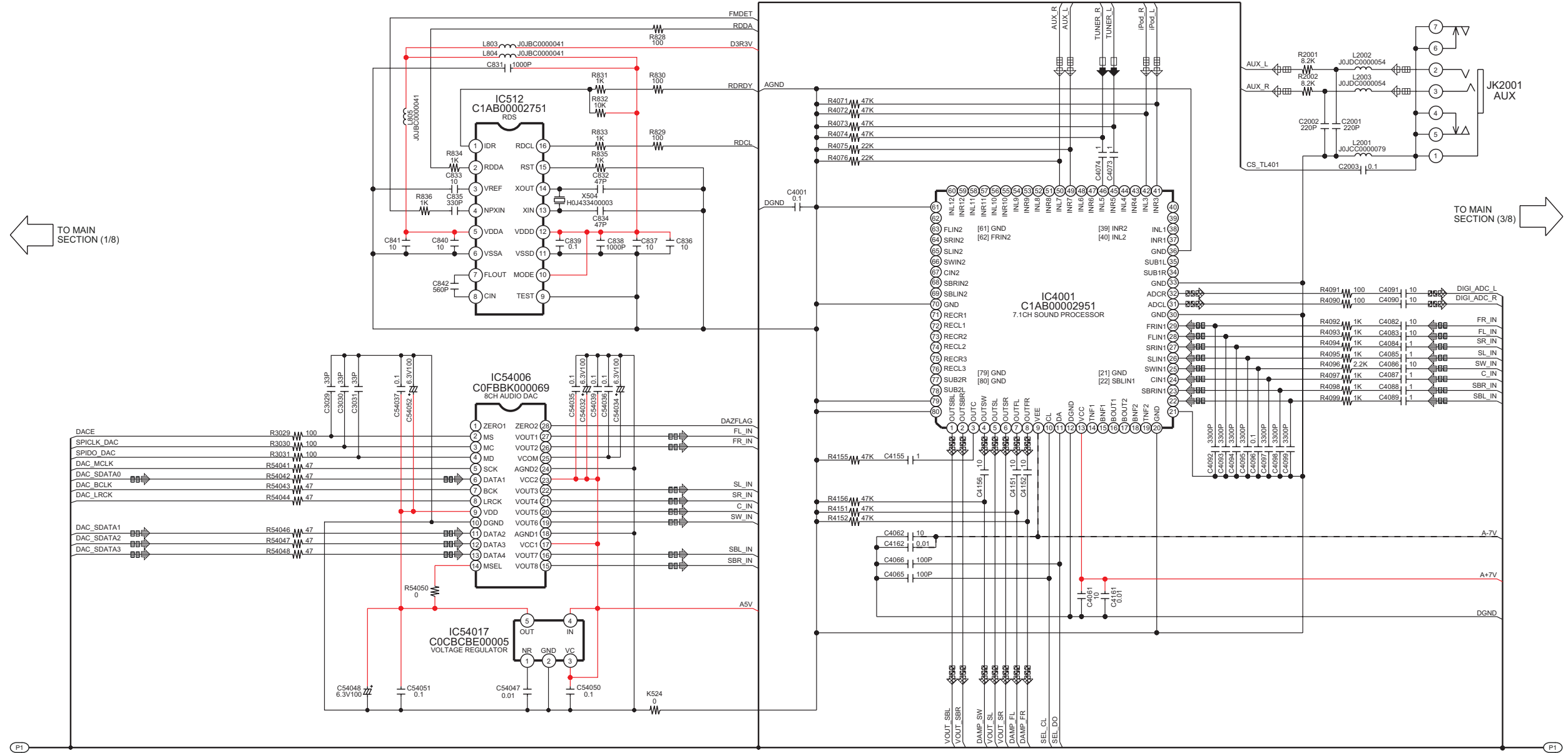
B MAIN CIRCUIT



SCHEMATIC DIAGRAM - 24

B MAIN CIRCUIT

— : +B SIGNAL LINE - - - : -B SIGNAL LINE : BD/DVD AUDIO INPUT SIGNAL LINE : iPod/AUX AUDIO INPUT SIGNAL LINE : iPod VIDEO INPUT SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE : FM SIGNAL LINE

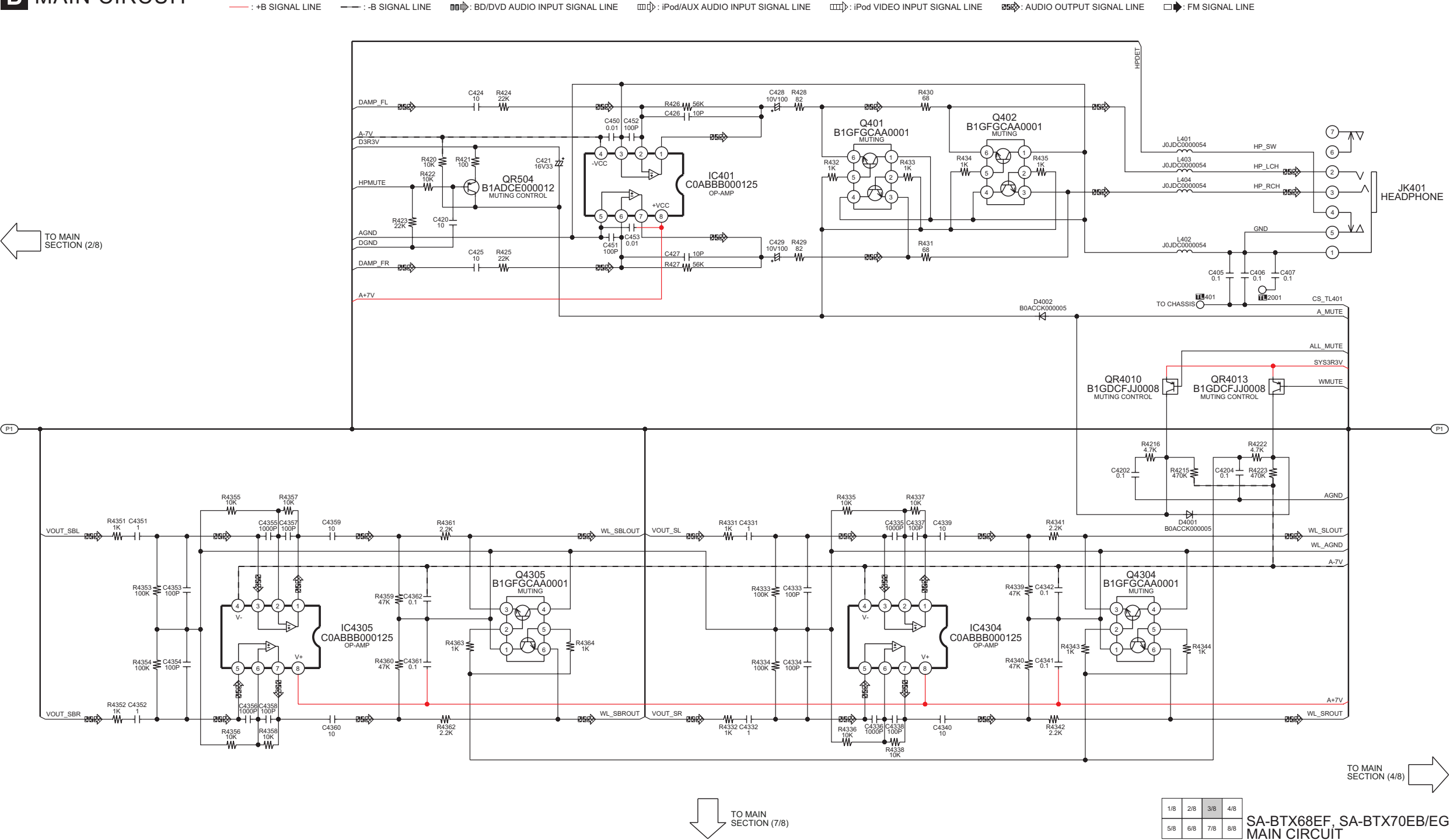


TO MAIN SECTION (6/8)

SA-BTX68EF, SA-BTX70EB/EG
MAIN CIRCUIT

SCHEMATIC DIAGRAM - 25

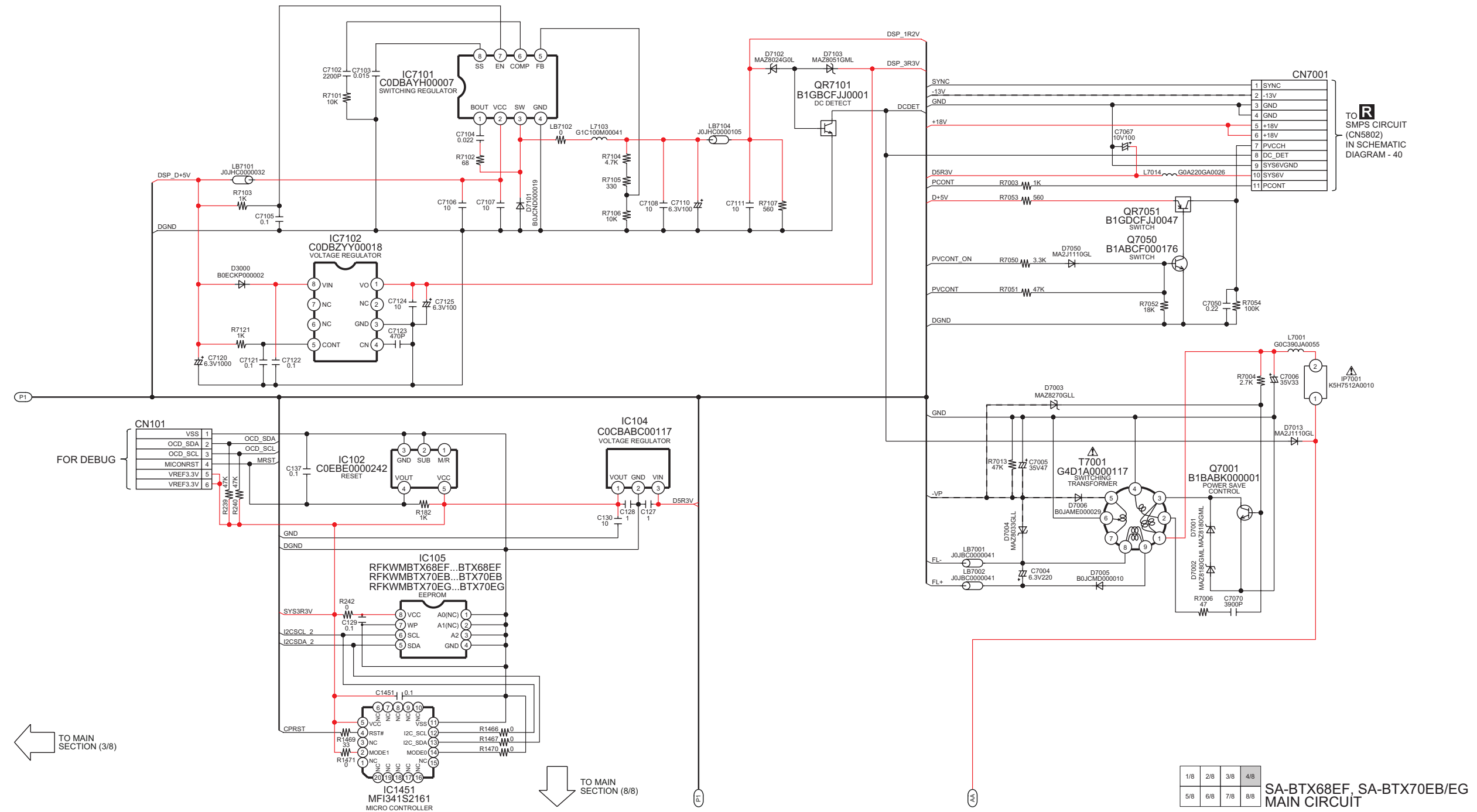
B MAIN CIRCUIT



SCHEMATIC DIAGRAM - 26

B MAIN CIRCUIT

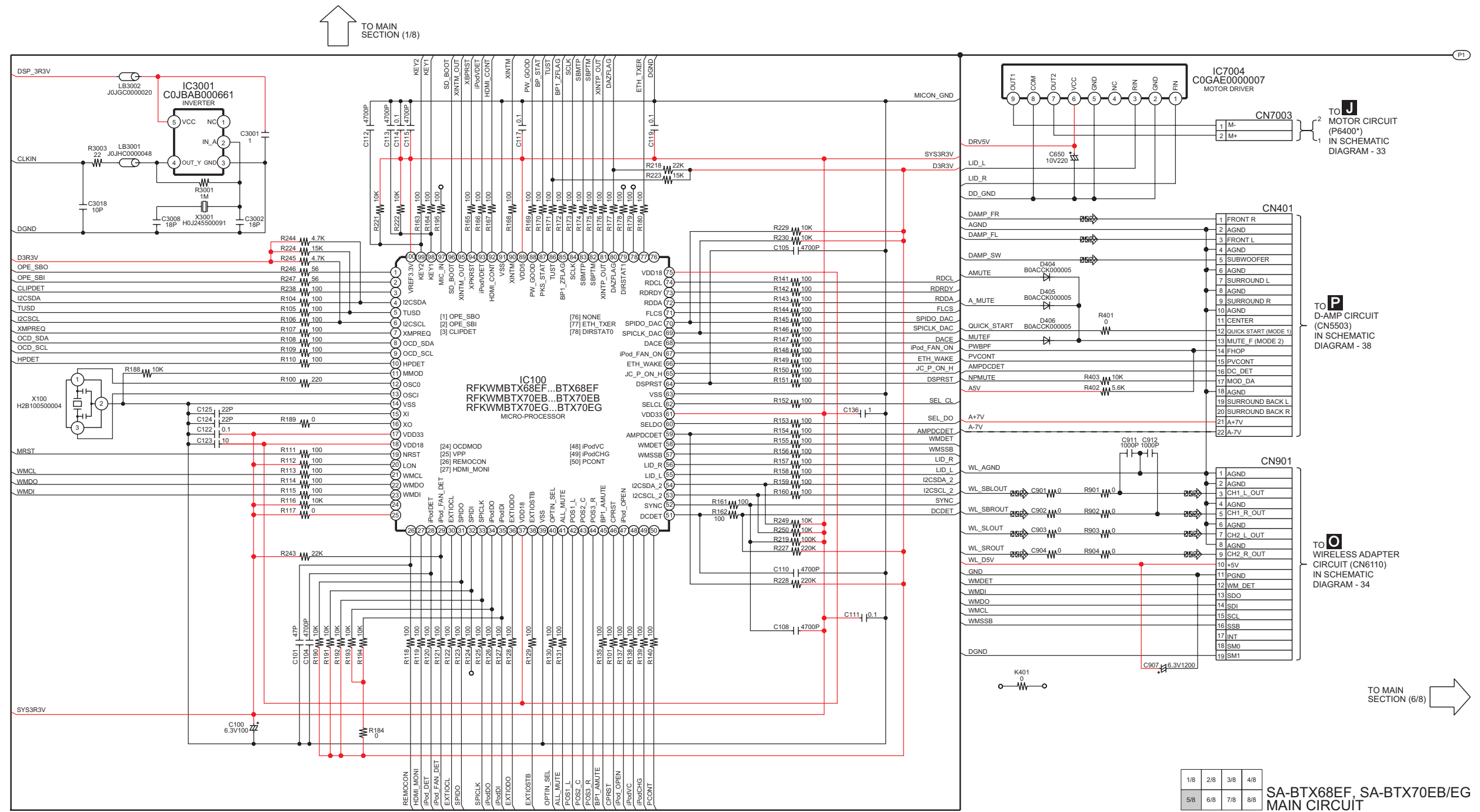
— : +B SIGNAL LINE — : -B SIGNAL LINE : BD/DVD AUDIO INPUT SIGNAL LINE : iPod/AUX AUDIO INPUT SIGNAL LINE : iPod VIDEO INPUT SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE : FM SIGNAL LINE



SCHEMATIC DIAGRAM - 27

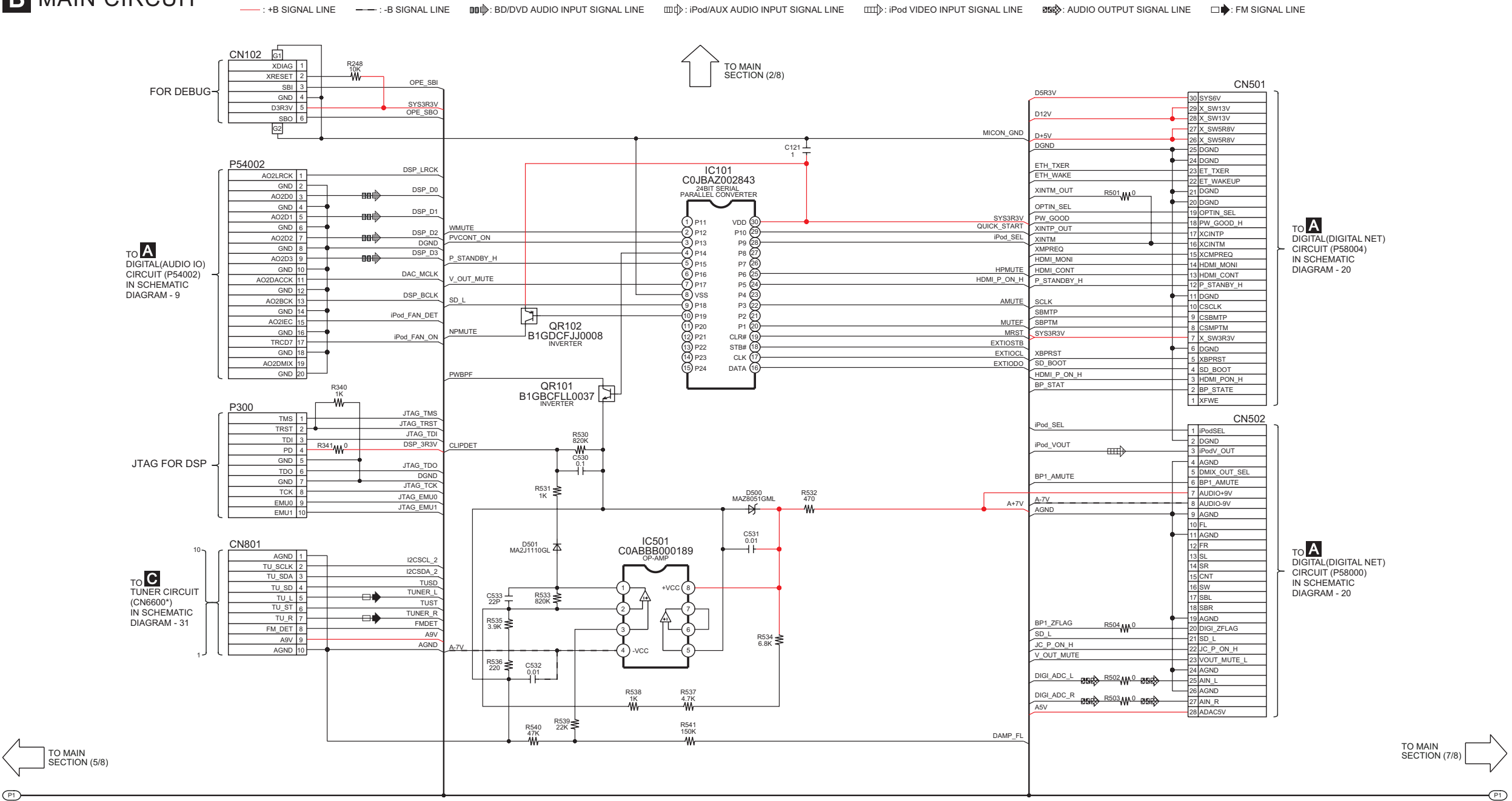
B MAIN CIRCUIT

— : +B SIGNAL LINE — : -B SIGNAL LINE : BD/DVD AUDIO INPUT SIGNAL LINE : iPod/AUX AUDIO INPUT SIGNAL LINE : iPod VIDEO INPUT SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE : FM SIGNAL LINE



SCHEMATIC DIAGRAM - 28

B MAIN CIRCUIT



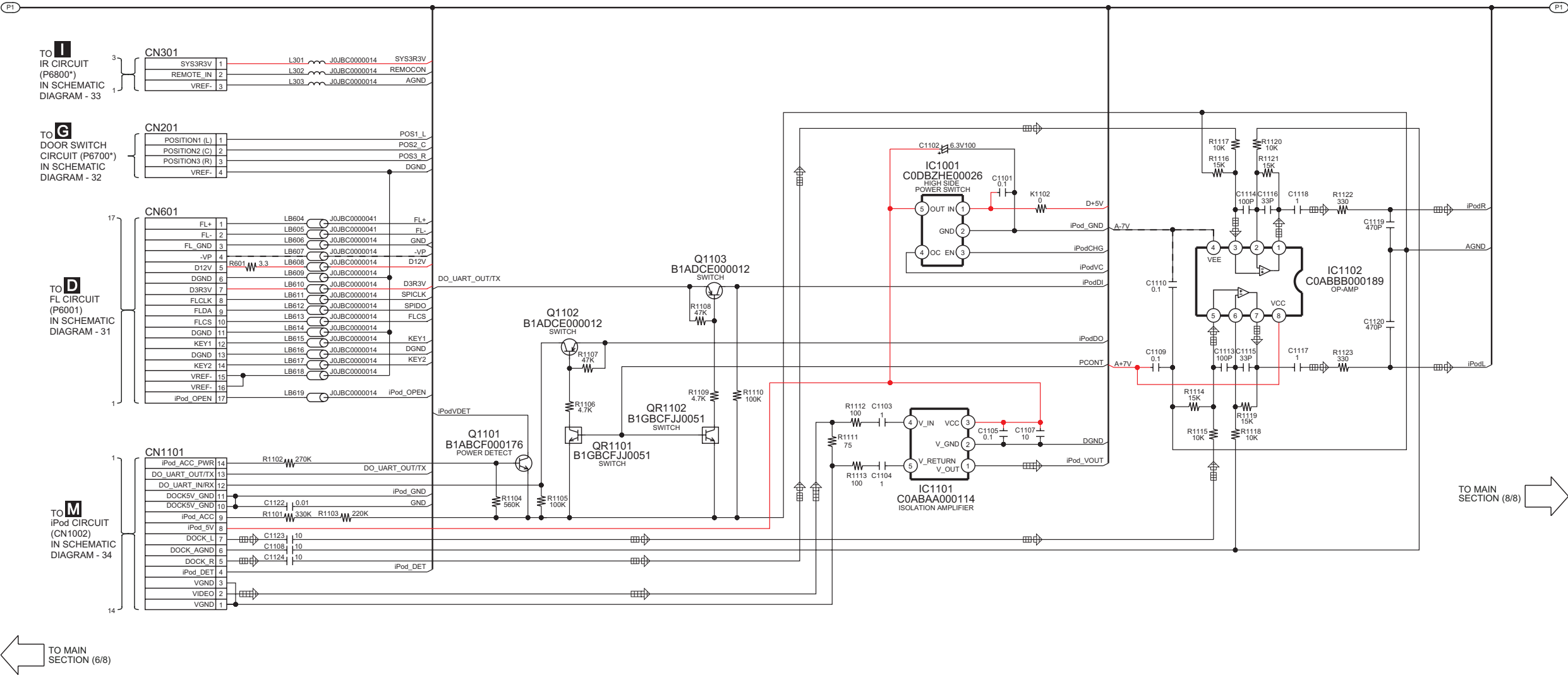
1/8	2/8	3/8	4/8
5/8	6/8	7/8	8/8

SA-BTX68EF, SA-BTX70EB/EG
MAIN CIRCUIT

B MAIN CIRCUIT

— : +B SIGNAL LINE — : -B SIGNAL LINE : BD/DVD AUDIO INPUT SIGNAL LINE : iPod/AUX AUDIO INPUT SIGNAL LINE : iPod VIDEO INPUT SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE : FM SIGNAL LINE

↑ TO MAIN SECTION (3/8)



1/8	2/8	3/8	4/8
5/8	6/8	7/8	8/8

SA-BTX68EF, SA-BTX70EB/EG
MAIN CIRCUIT

B MAIN CIRCUIT

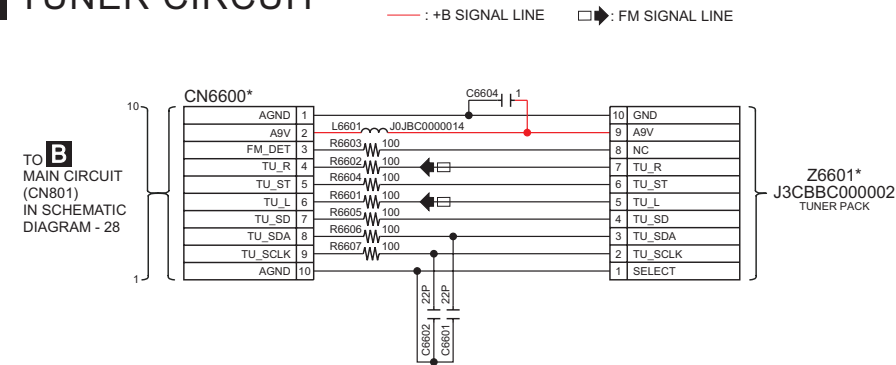
↑ TO MAIN SECTION (4/8)



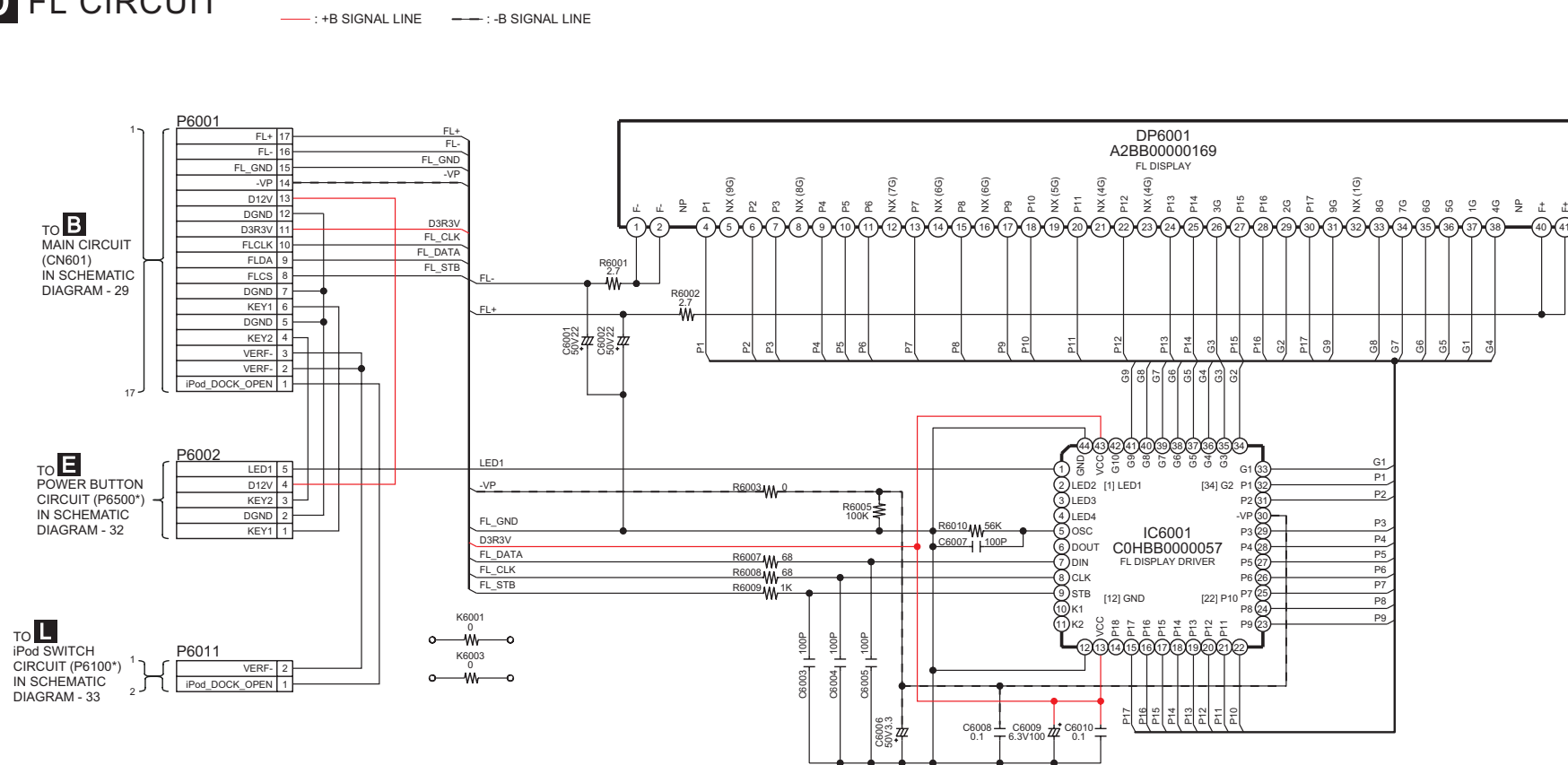
16.3. Tuner & FL Circuit

SCHEMATIC DIAGRAM - 31

C TUNER CIRCUIT

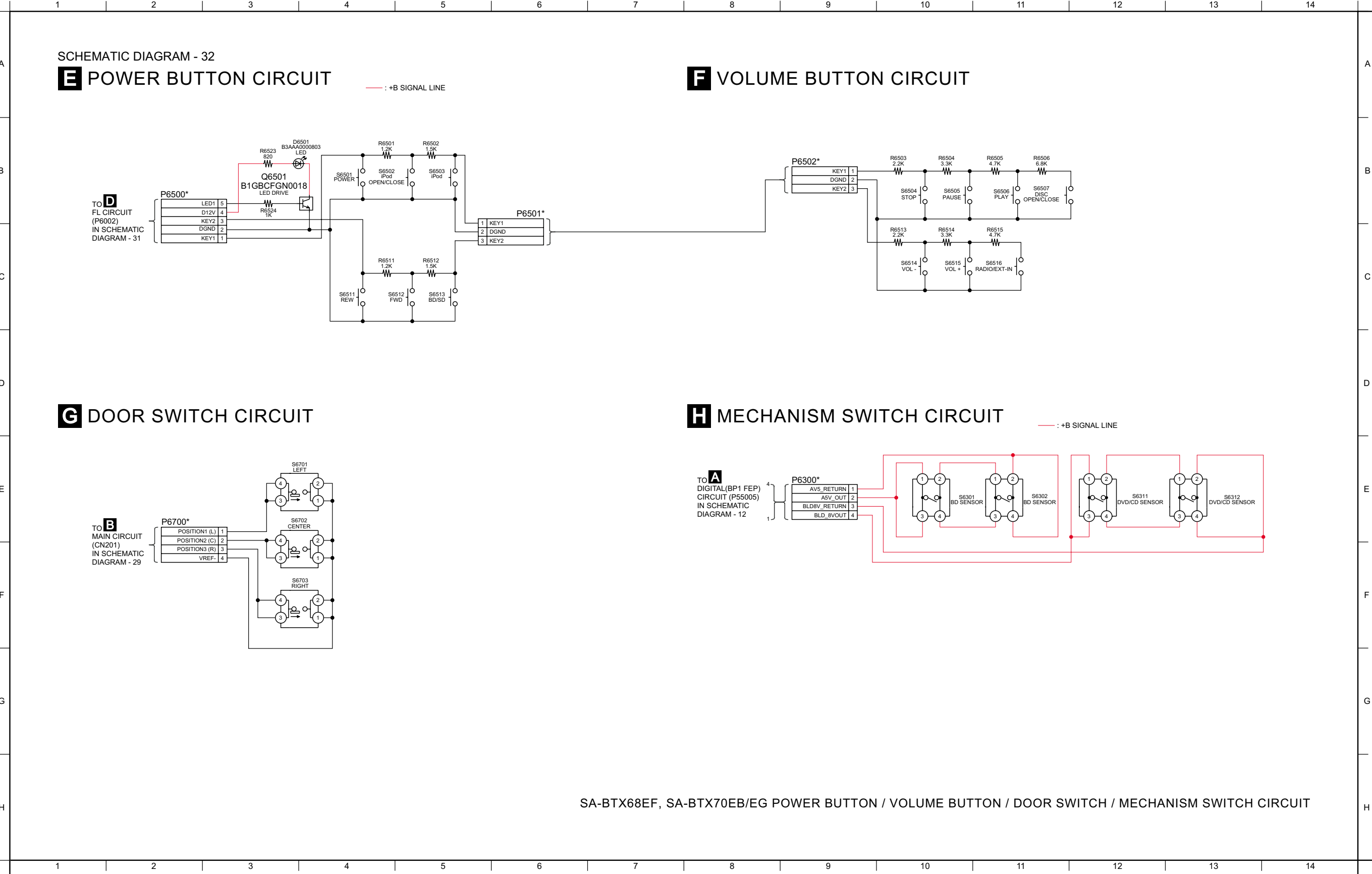


D FL CIRCUIT



SA-BTX68EF, SA-BTX70EB/EG TUNER / FL CIRCUIT

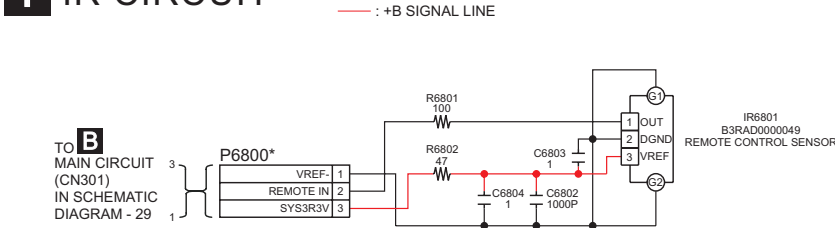
16.4. Power Button, Volume Button, Door Switch & Mechanism Switch Circuit



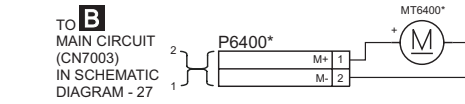
16.5. IR, Motor, SD USB & iPod Switch Circuit

SCHEMATIC DIAGRAM - 33

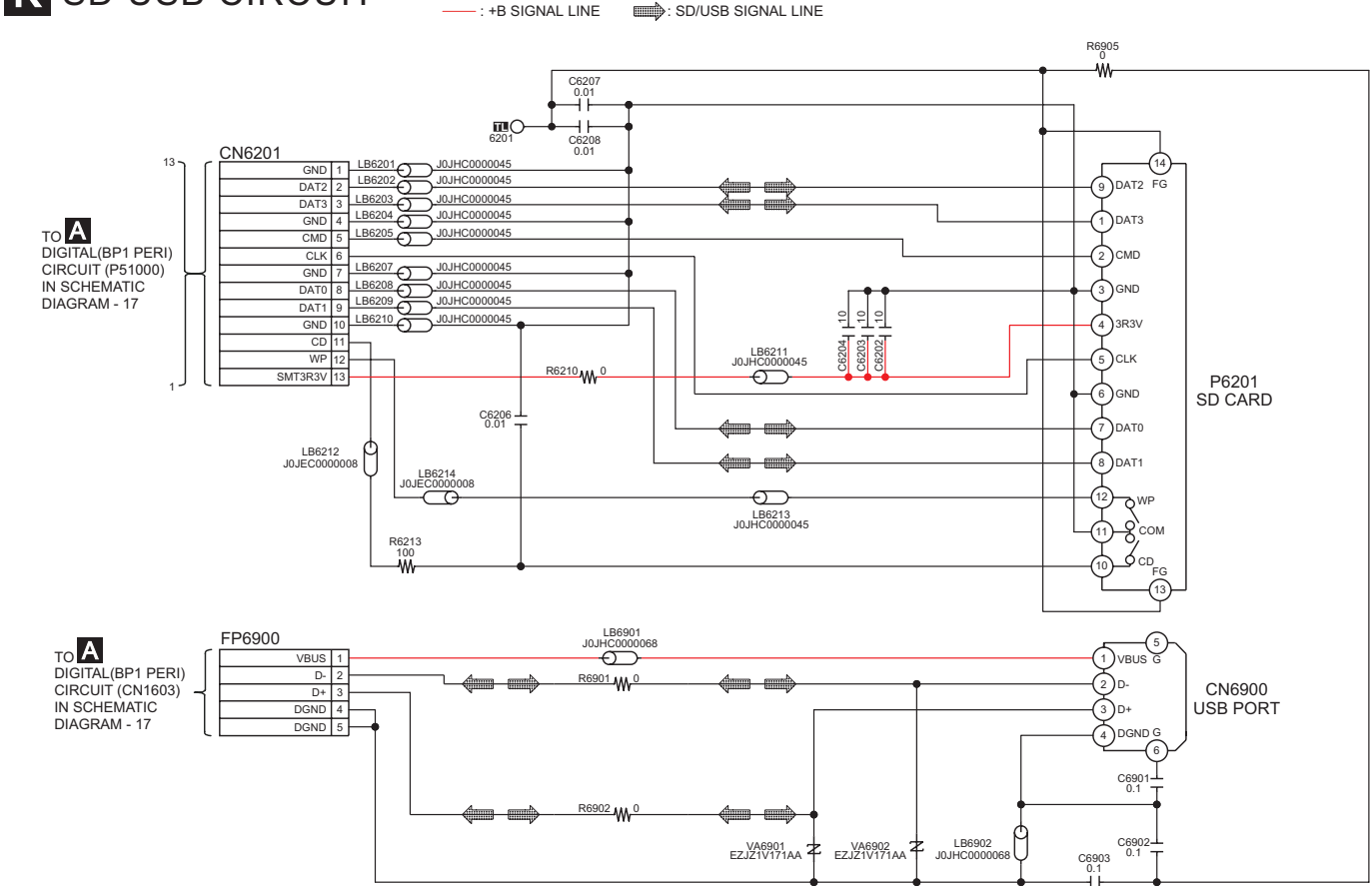
I IR CIRCUIT



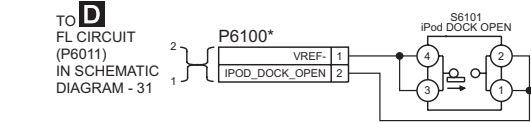
J MOTOR CIRCUIT



K SD USB CIRCUIT



L iPod SWITCH CIRCUIT

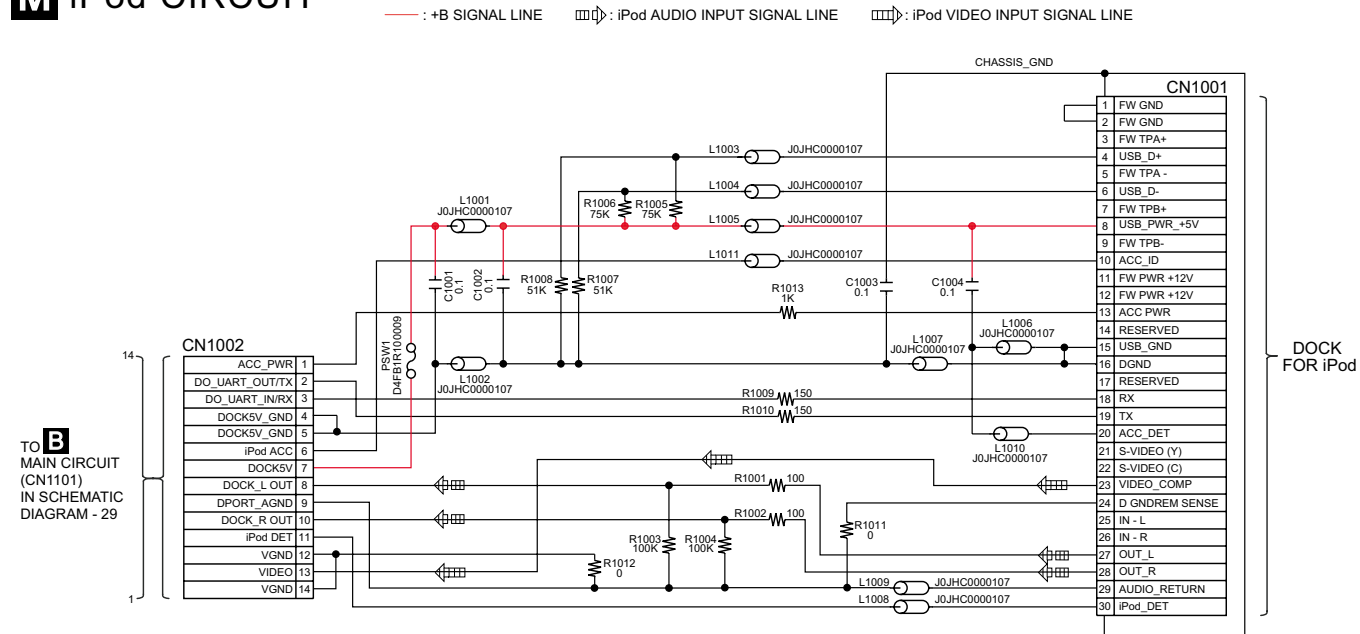


SA-BTX68EF, SA-BTX70EB/EG IR / MOTOR / SD USB / iPod SWITCH CIRCUIT

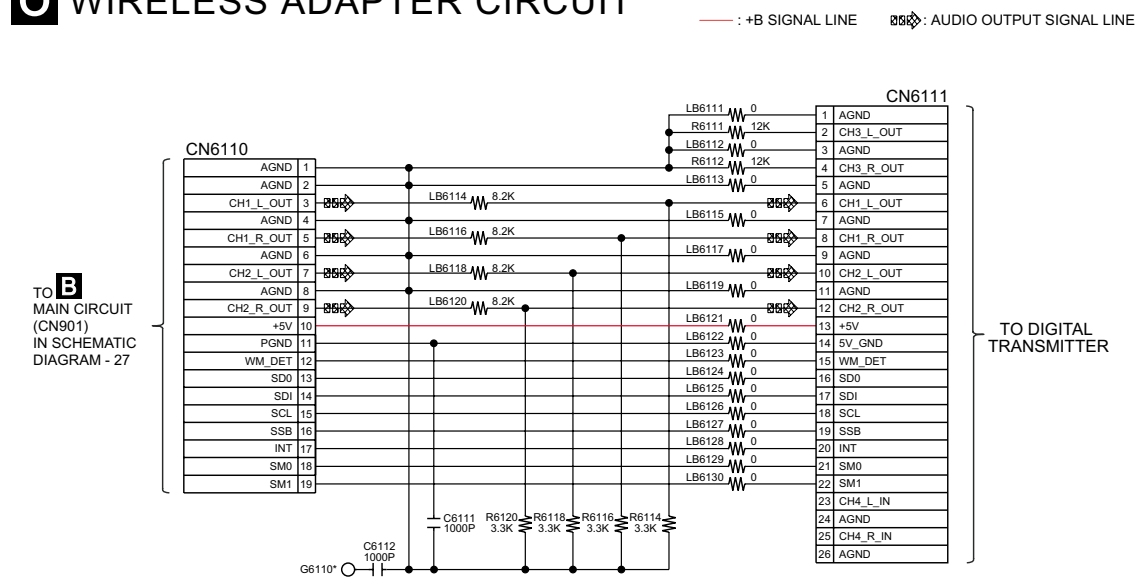
16.6. iPod, iPod Fan, Wireless Adapter & AC Inlet Circuit

SCHEMATIC DIAGRAM - 34

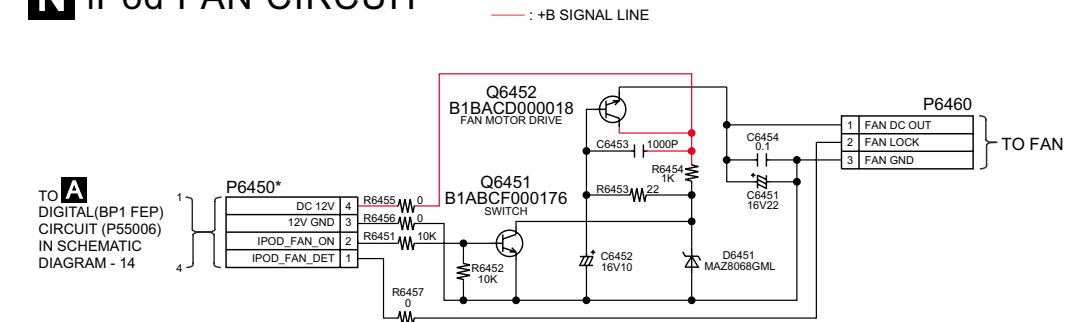
M iPod CIRCUIT



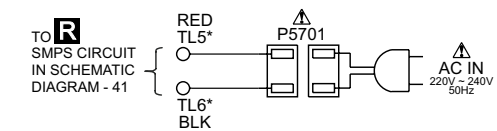
0 WIRELESS ADAPTER CIRCUIT



N iPod FAN CIRCUIT



S AC INLET CIRCUIT



SA-BTX68EF, SA-BTX70EB/EG iPod / iPod FAN / WIRELESS ADAPTER / AC INLET CIRCUIT

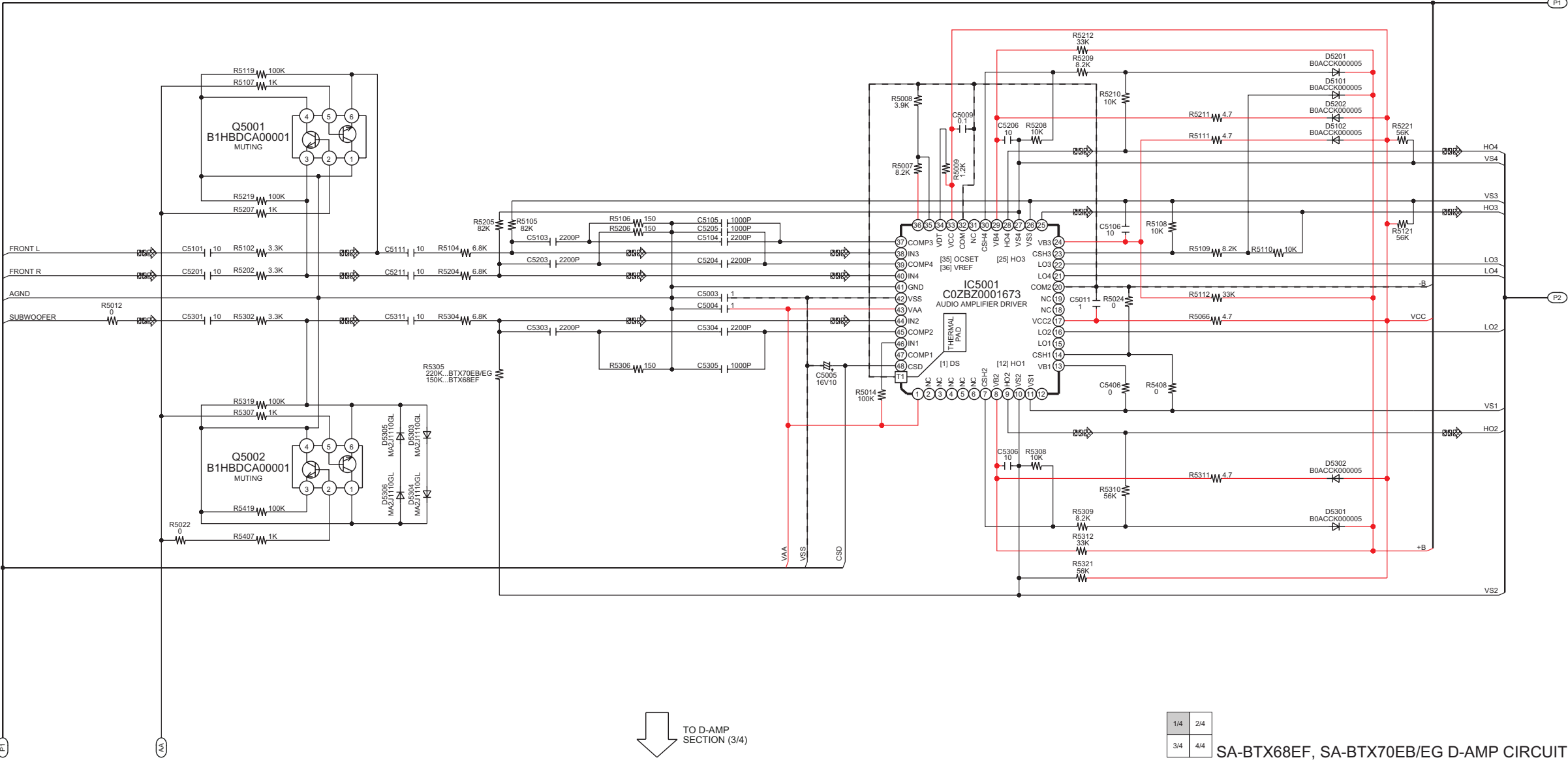
16.7. D-Amp Circuit

SCHEMATIC DIAGRAM - 35

P D-AMP CIRCUIT

— : +B SIGNAL LINE — : -B SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE

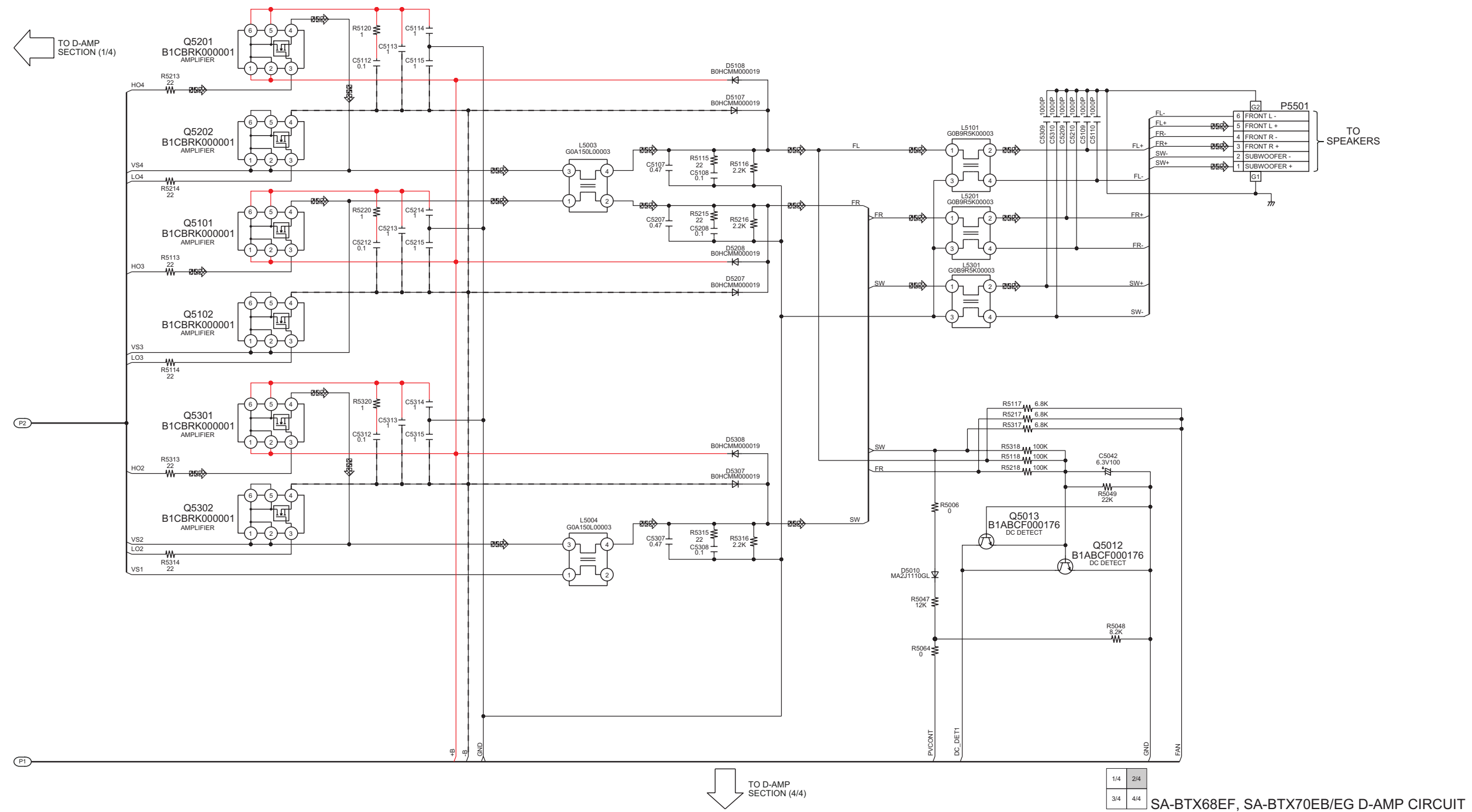
TO D-AMP SECTION (2/4)



SCHEMATIC DIAGRAM - 36

P D-AMP CIRCUIT

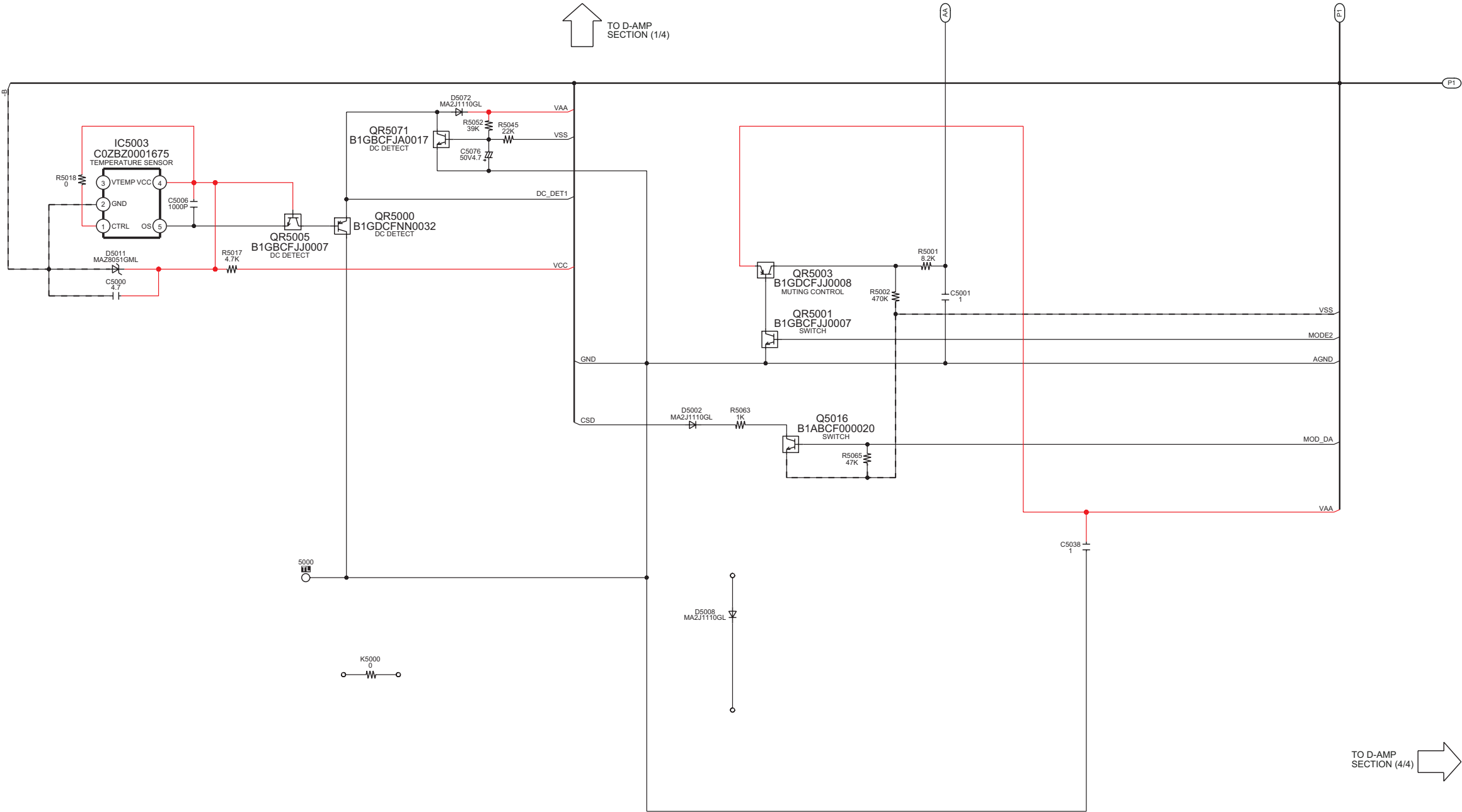
— : +B SIGNAL LINE - - - : -B SIGNAL LINE  : AUDIO OUTPUT SIGNAL LINE



SCHEMATIC DIAGRAM - 37

P D-AMP CIRCUIT

— : +B SIGNAL LINE — : -B SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE



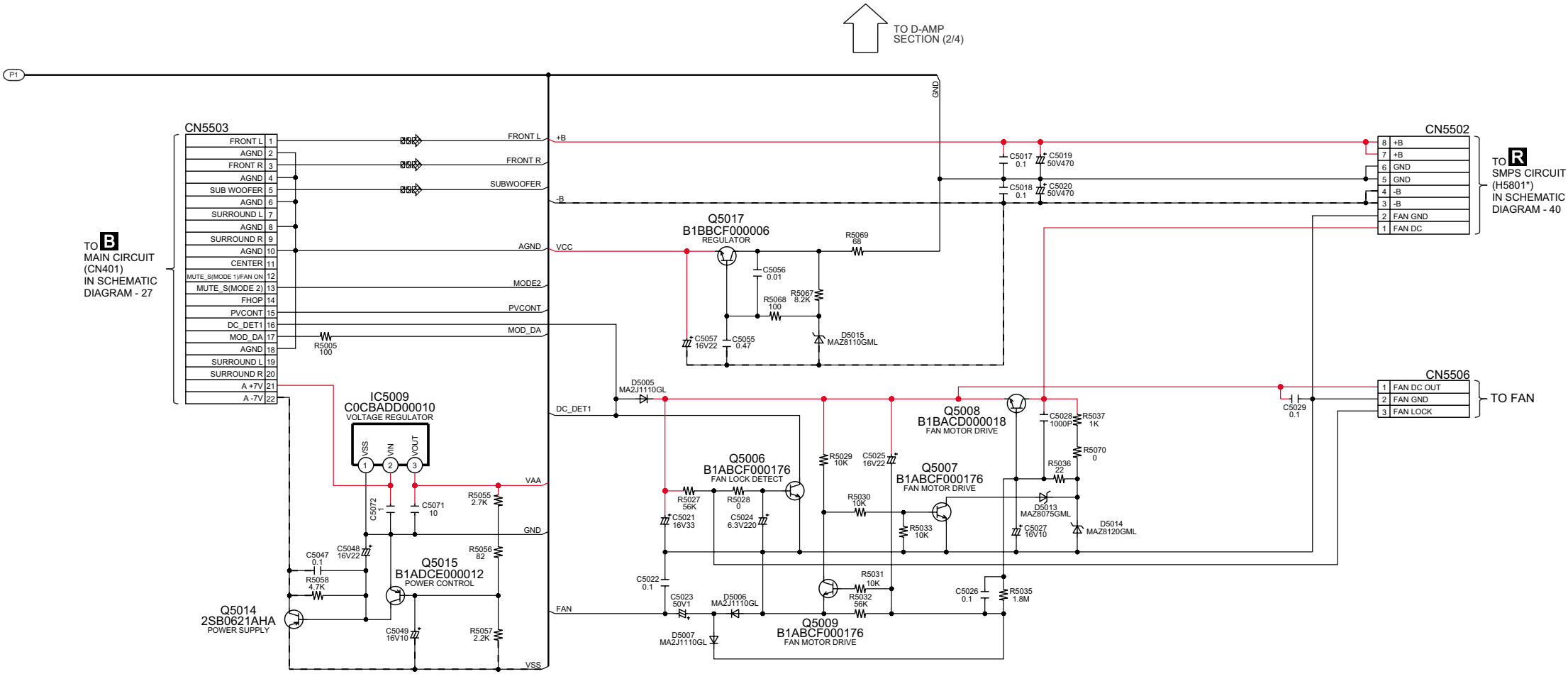
1/4	2/4
3/4	4/4

SA-BTX68EF, SA-BTX70EB/EG D-AMP CIRCUIT

SCHEMATIC DIAGRAM - 38

P D-AMP CIRCUIT

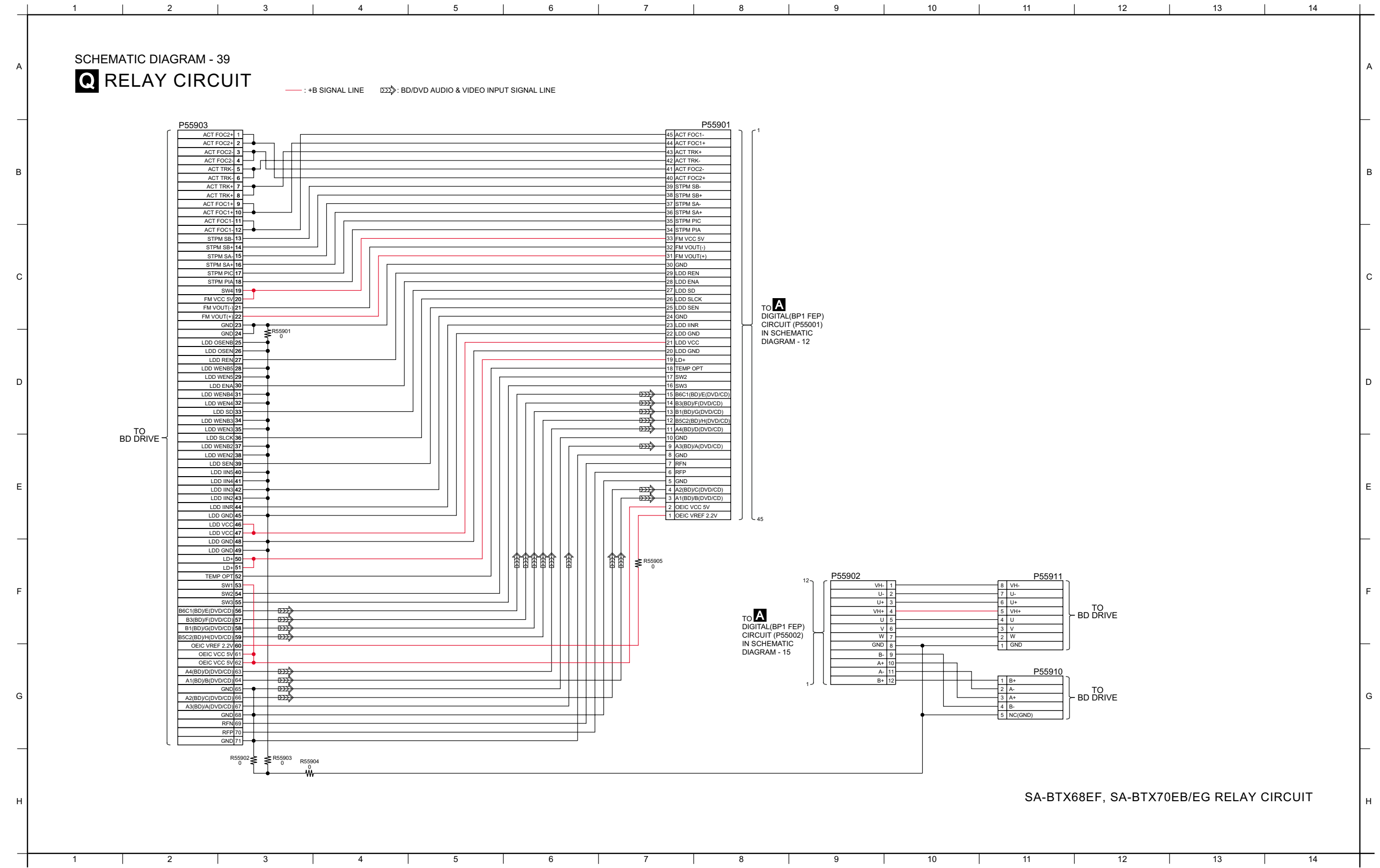
— : +B SIGNAL LINE — : -B SIGNAL LINE : AUDIO OUTPUT SIGNAL LINE



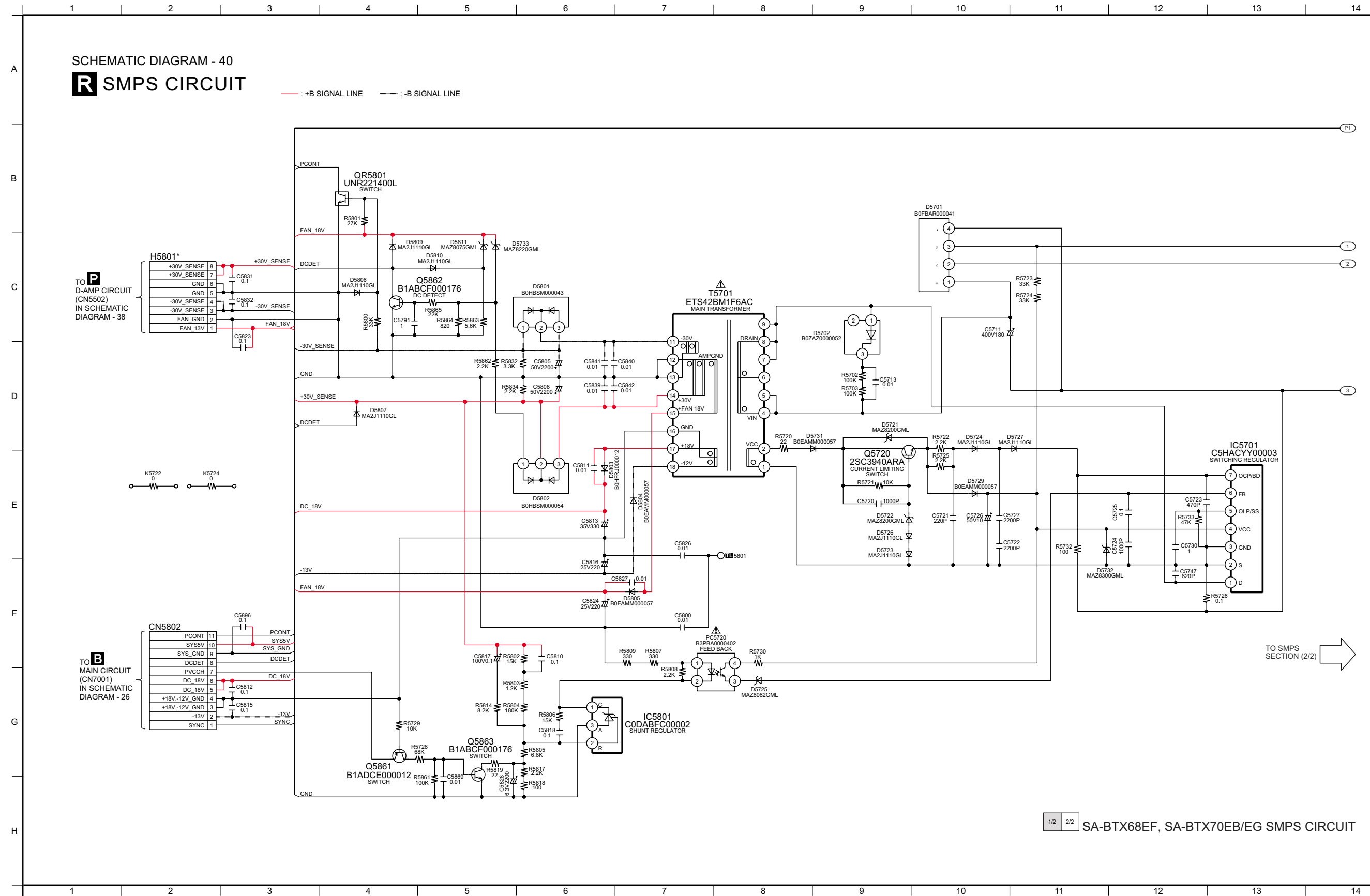
← TO D-AMP SECTION (3/4)

1/4 2/4
3/4 4/4 SA-BTX68EF, SA-BTX70EB/EG D-AMP CIRCUIT

16.8. Relay Circuit



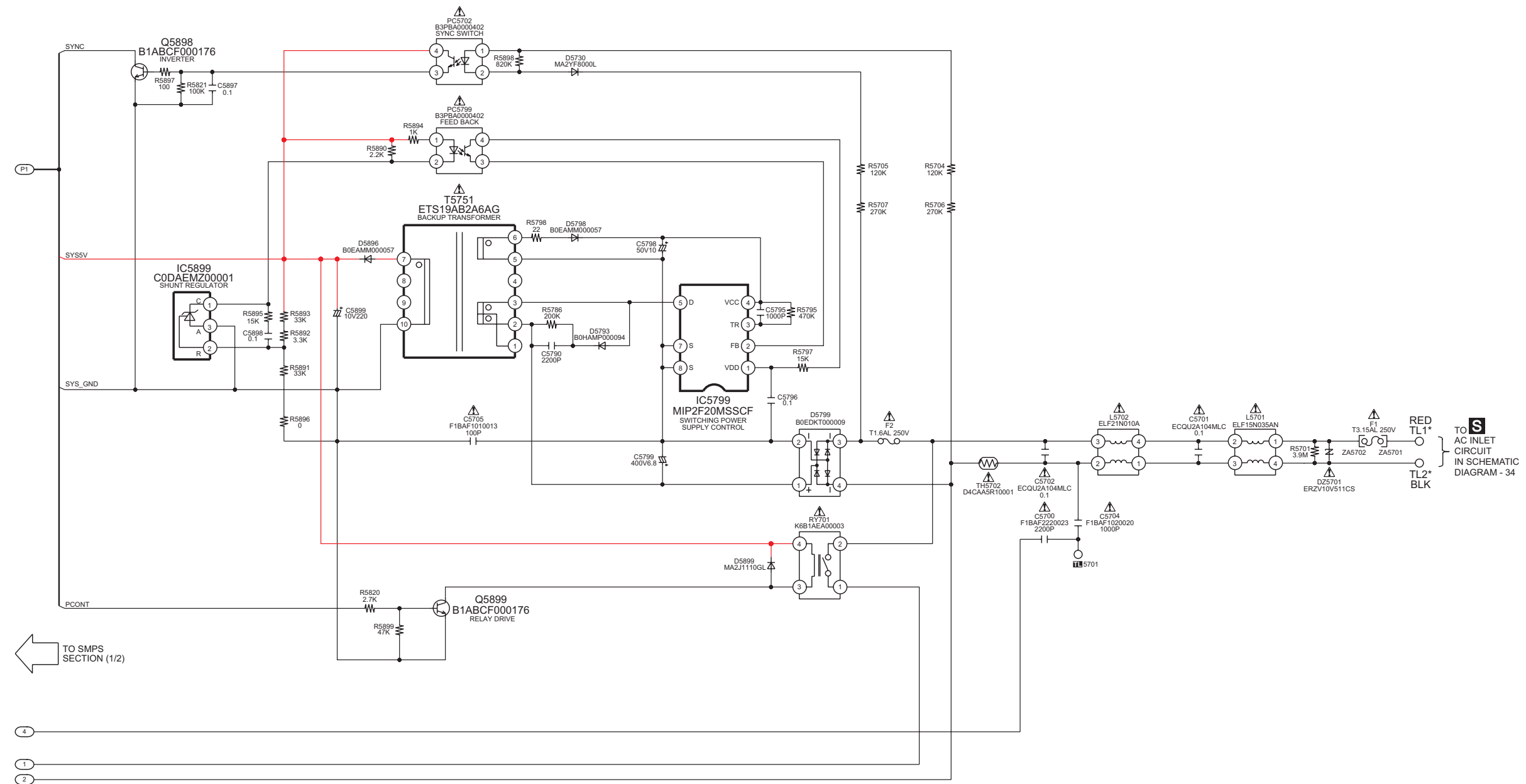
16.9. SMPS Circuit



SCHEMATIC DIAGRAM - 41

R SMPS CIRCUIT

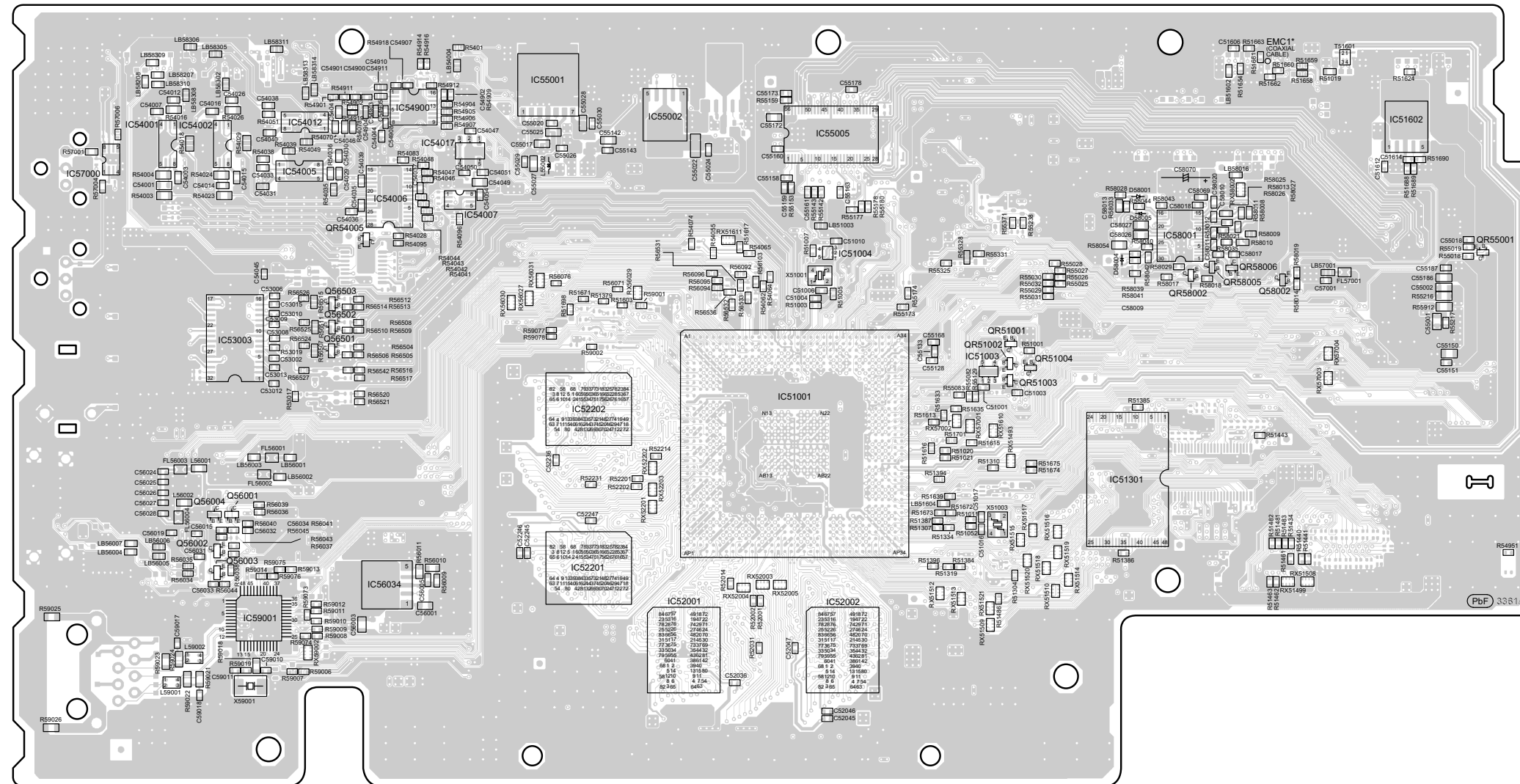
— : +B SIGNAL LINE — : -B SIGNAL LINE



1/2 2/2 SA-BTX68EF, SA-BTX70EB/EG SMPS CIRCUIT

17.1. Digital P.C.B.

A DIGITAL P.C.B. (RFKB4520A)



(SIDE A)

NOTE: " * " REF IS FOR INDICATION ONLY.

SA-BTX68EF, SA-BTX70EB/EG
DIGITAL P.C.B.

A vertical scale with labels A, B, C, D, E, F, G, and H from bottom to top.

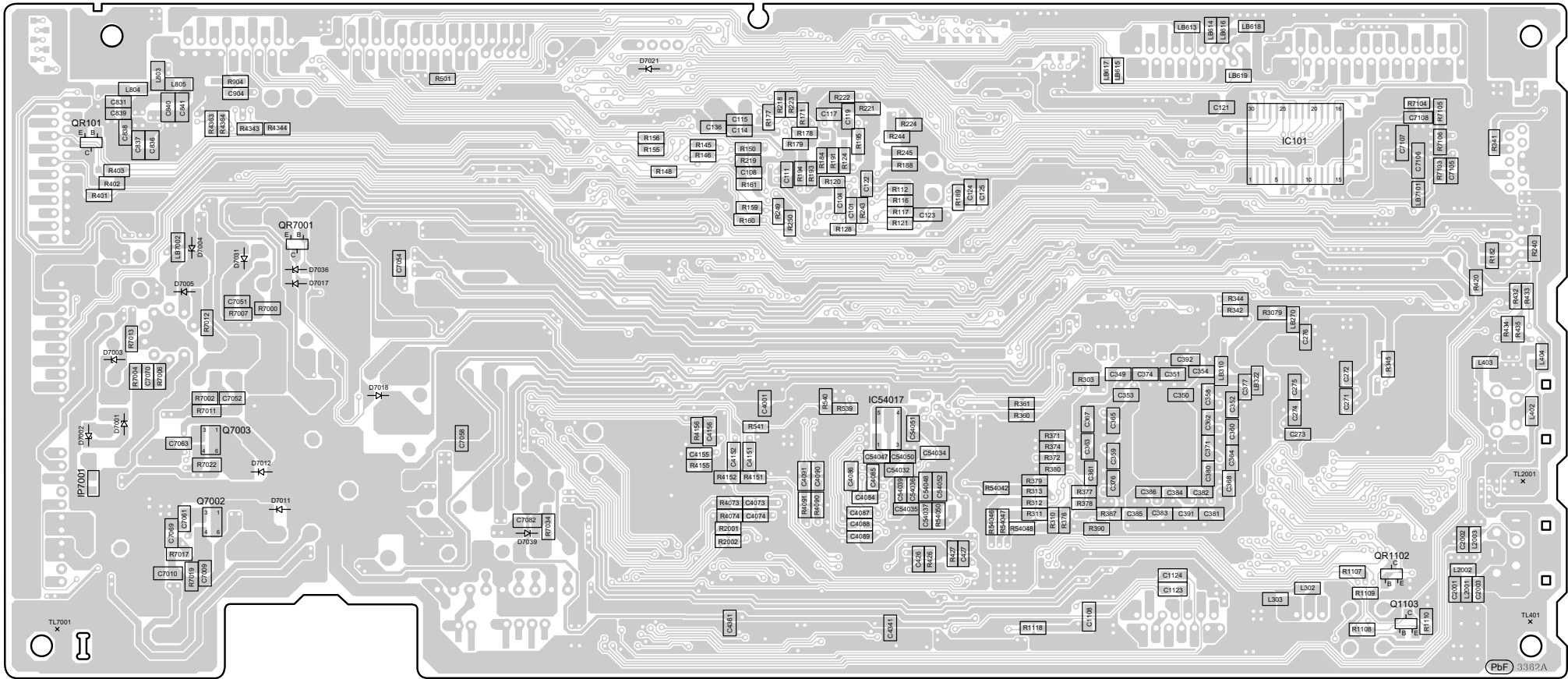


B

A

17.2. Main P.C.B.

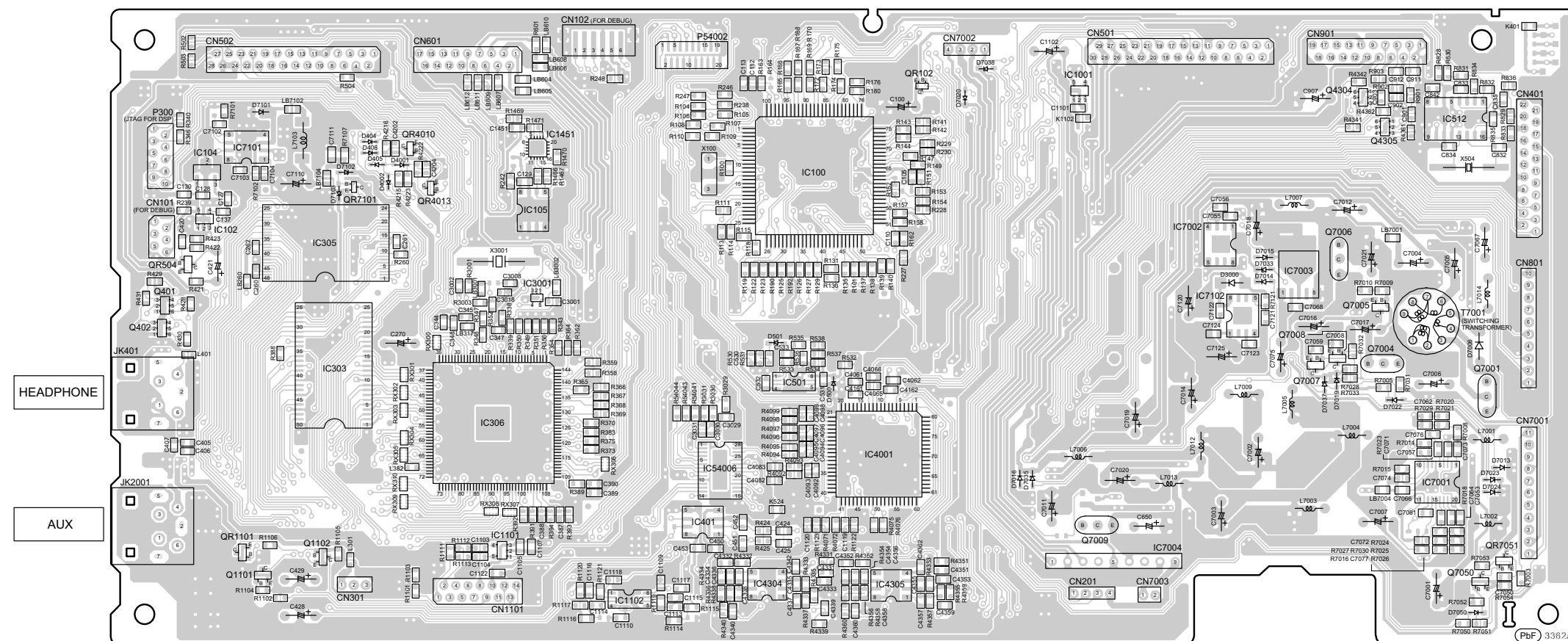
B MAIN P.C.B. (RFKB4521A)



(SIDE A)

SA-BTX68EF, SA-BTX70EB/EG
MAIN P.C.B.

B MAIN P.C.B. (RFKB4521A)

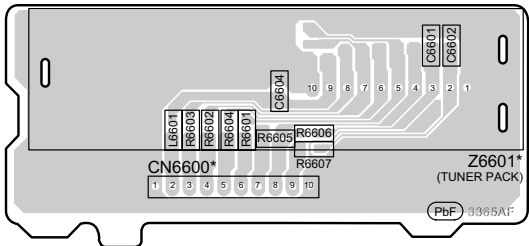


(SIDE B)

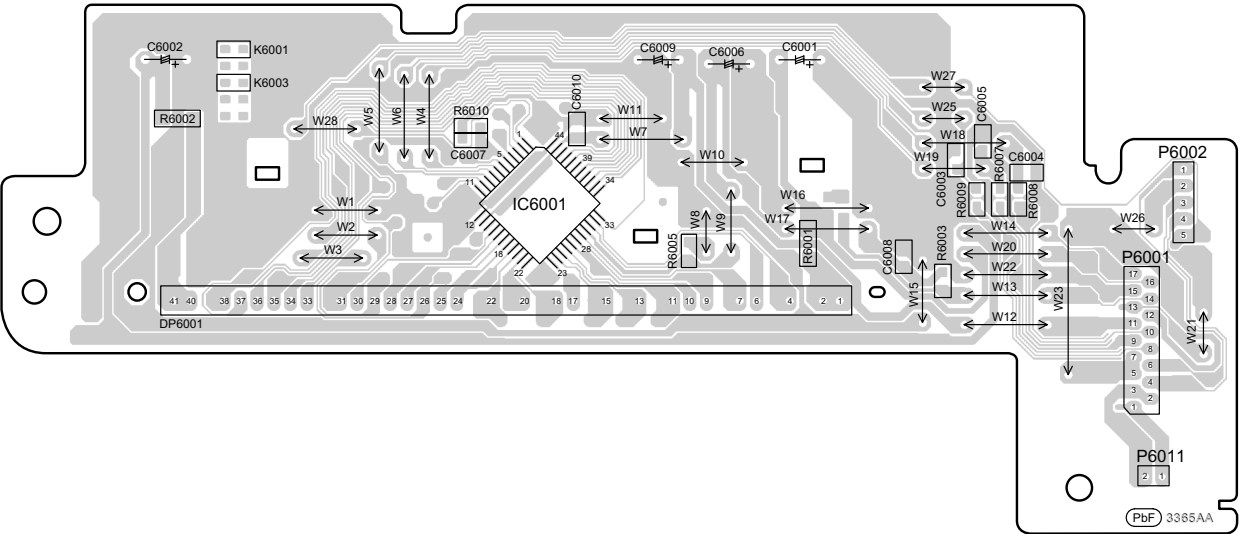
SA-BTX68EF, SA-BTX70EB/EG
MAIN P.C.B.

17.3. Tuner, FL, Power Button, Volume Button & Door Switch P.C.B.

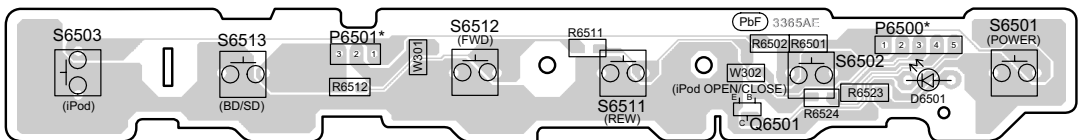
C TUNER P.C.B. (REP4524A)



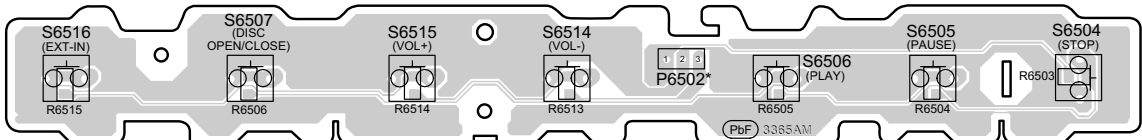
D FL P.C.B. (REP4524A)



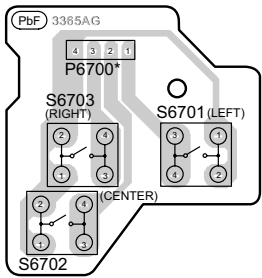
E POWER BUTTON P.C.B. (REP4524A)



F VOLUME BUTTON P.C.B. (REP4524A)



G DOOR SWITCH P.C.B. (REP4524A)



NOTE: " * " REF IS FOR INDICATION ONLY.

SA-BTX68EF, SA-BTX70EB/EG
TUNER / FL / POWER BUTTON / VOLUME BUTTON / DOOR SWITCH P.C.B.

A
B
C
D
E
F
G
H

[illegible][illegible]

(SIDE B)

SA-BTX68EF, SA-BTX70EB/EG
iPod FAN / WIRELESS ADAPTER / RELAY P.C.B.

(SIDE A)



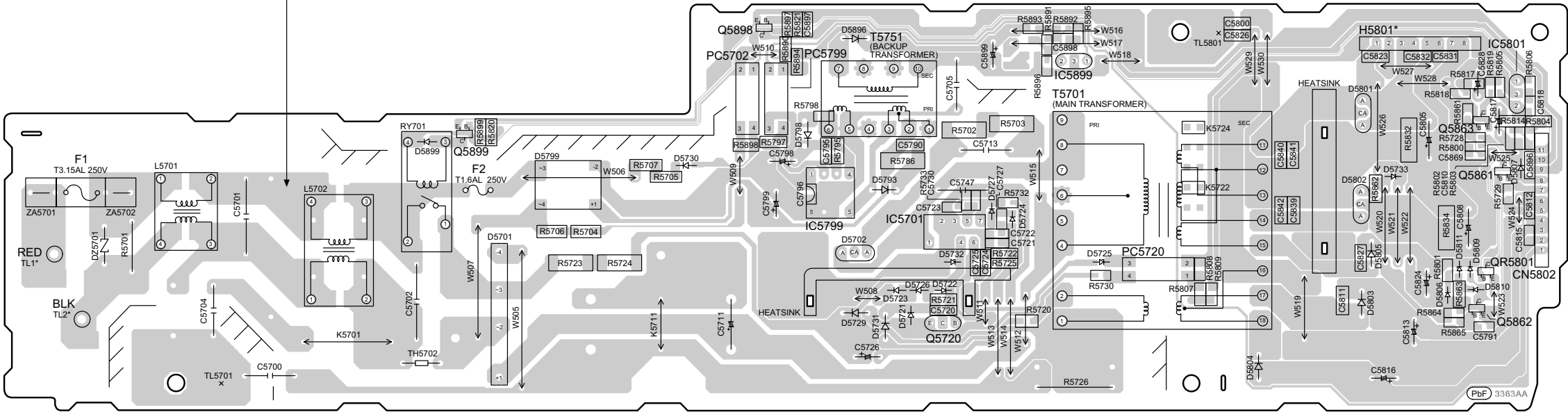
(SIDE B)



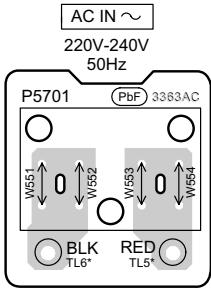
17.7. SMPS & AC Inlet P.C.B.

R SMPS P.C.B. (REP4522A)

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



S AC INLET P.C.B. (REP4522A)



NOTE: " * " REF IS FOR INDICATION ONLY.

SA-BTX68EF, SA-BTX70EB/EG
SMPS / AC INLET P.C.B.

18 Terminal Function of ICs

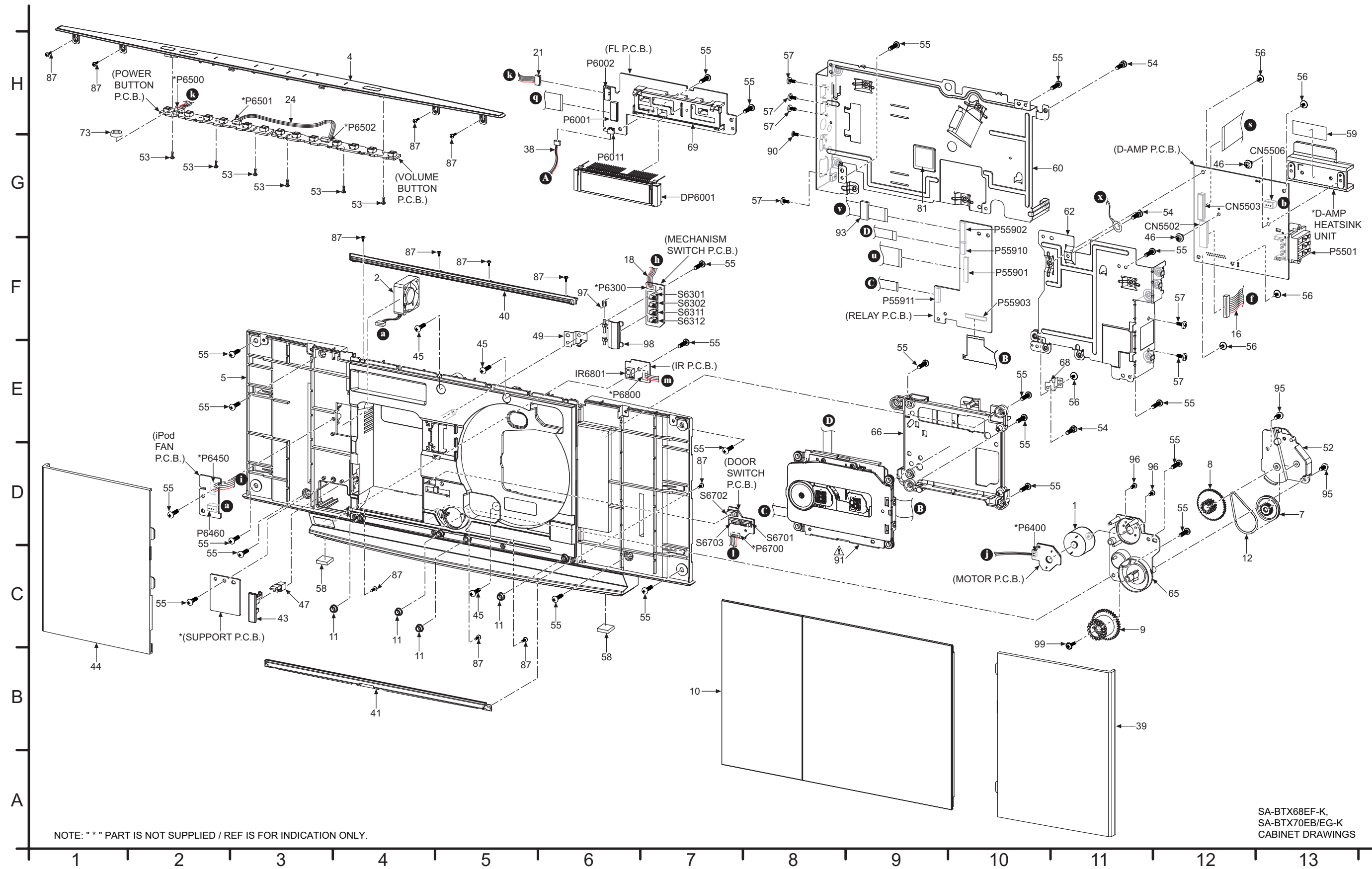
18.1. IC6001 (C0HBB0000057): IC FL Driver

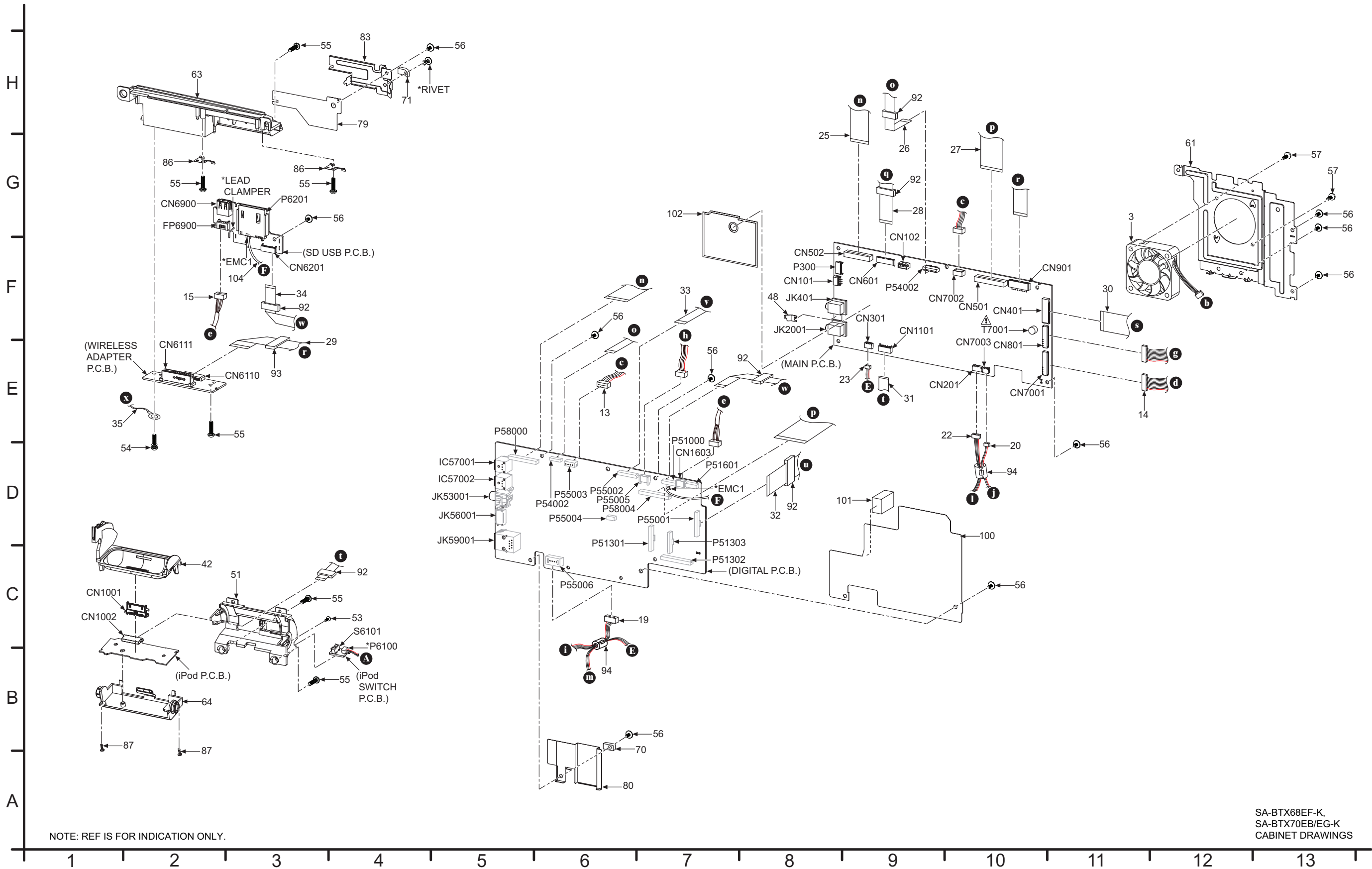
Pin No.	Terminal Name	I/O	Function
1	NC	O	No Connection
2	NC	-	No Connection
3	NC	-	No Connection
4	NC	-	No Connection
5	OSC	I	Oscillator Input
6	NC	-	No Connection
7	DIN	I	Data Input
8	CLK	I	Clock Input
9	STB	I	Serial Interface Strobe
10	NC	-	No Connection
11	NC	-	No Connection
12	GND	-	GND
13	VCC	-	Power Supply (+5V)
14	P18	O	Segment Output 18
15	P17	O	Segment Output 17
16	P16	O	Segment Output 16
17	P15	O	Segment Output 15
18	P14	O	Segment Output 14
19	P13	O	Segment Output 13
20	P12	O	Segment Output 12
21	P11	O	Segment Output 11
22	P10	O	Segment Output 10
23	P9	O	Segment Output 9
24	P8	O	Segment Output 8
25	P7	O	Segment Output 7
26	P6	O	Segment Output 6
27	P5	O	Segment Output 5
28	P4	O	Segment Output 4
29	P3	O	Segment Output 3
30	-VP	-	Voltage Supply
31	P2	O	Segment Output 2
32	P1	O	Segment Output 1
33	G1	O	Grid Segment Output 1
34	G2	O	Grid Segment Output 2
35	G3	O	Grid Segment Output 3
36	G4	O	Grid Segment Output 4
37	G5	O	Grid Segment Output 5
38	G6	O	Grid Segment Output 6
39	G7	O	Grid Segment Output 7
40	G8	O	Grid Segment Output 8
41	G9	O	Grid Segment Output 9
42	G10	O	Grid Segment Output 10
43	VCC	-	Voltage Supply (+5V)
44	GND	-	GND

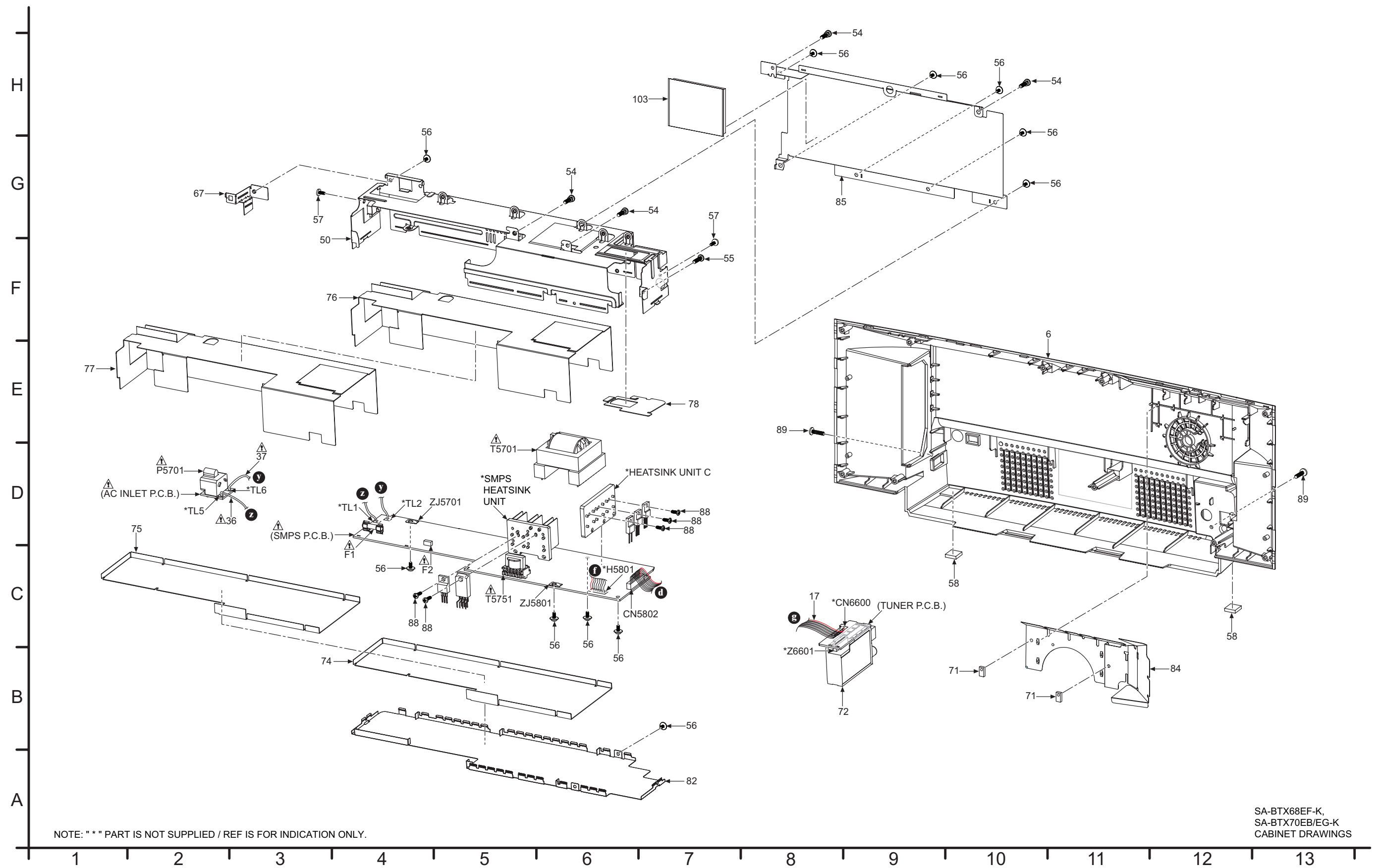
19 Exploded View and Replacement Parts List

19.1. Exploded View and Mechanical Replacement Part List

19.1.1. Cabinet Parts Location







19.1.2. Grease

H

G

F

E

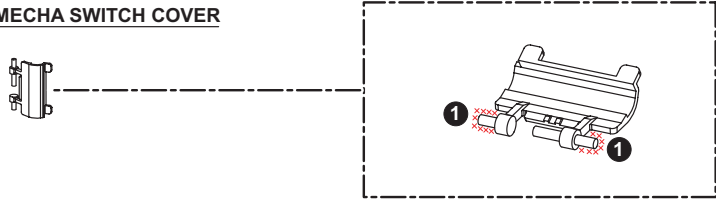
D

C

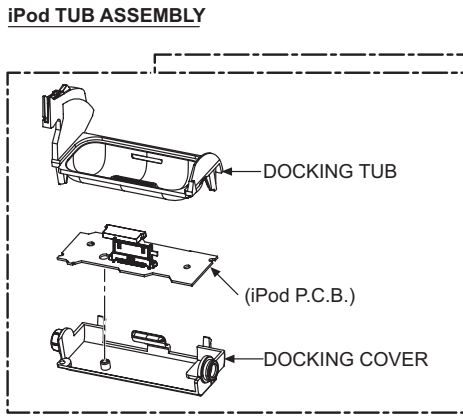
B

A

MECHA SWITCH COVER

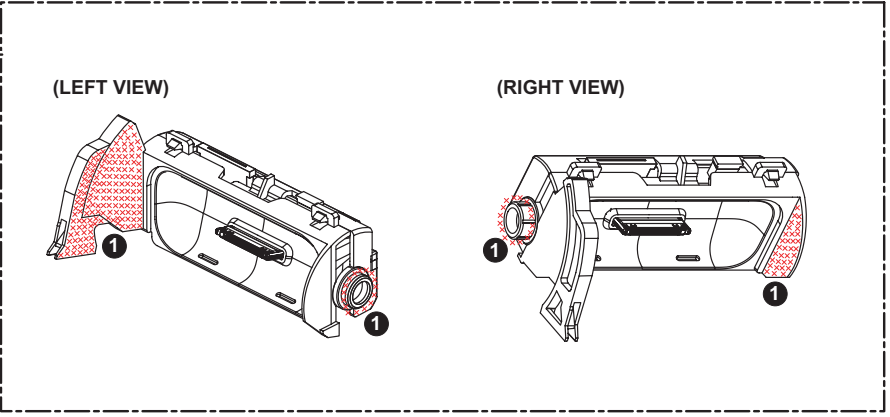


iPod TUB ASSEMBLY



(LEFT VIEW)

(RIGHT VIEW)



GEAR BOX ASSEMBLY

GEAR BASE

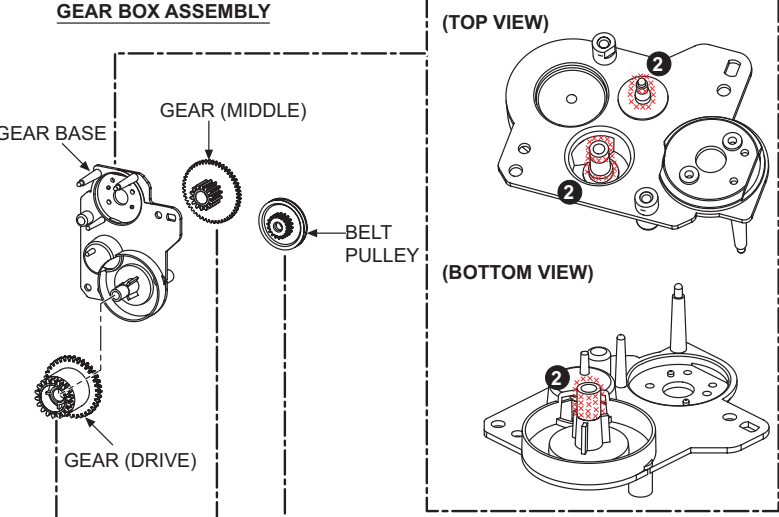
GEAR (MIDDLE)

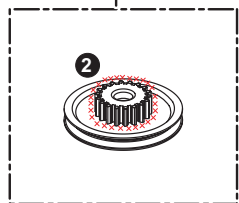
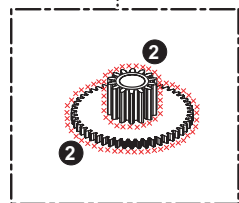
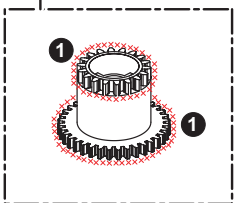
GEAR (DRIVE)

BELT PULLEY

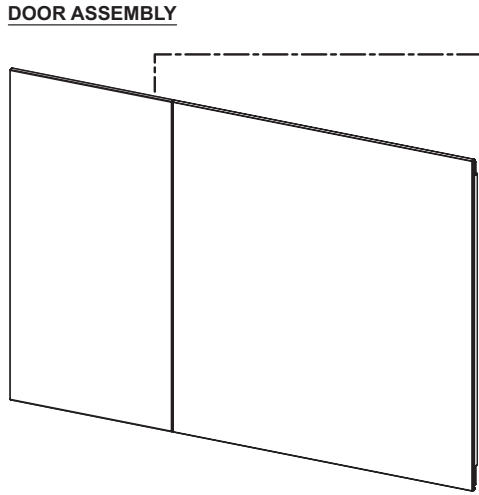
(TOP VIEW)

(BOTTOM VIEW)



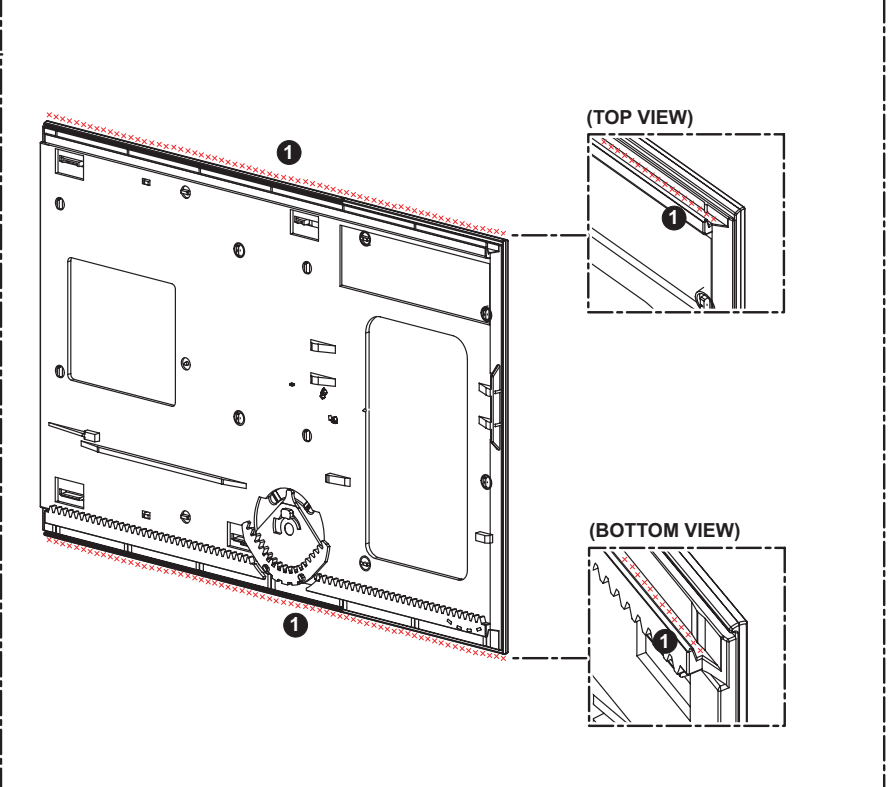


DOOR ASSEMBLY



(TOP VIEW)

(BOTTOM VIEW)



NOTE:

WHEN CHANGING LOADING MECHANISM PARTS,

APPLY SPECIFIED GREASE TO AREAS MARKED "xxx" AS SHOWN.

LABEL	DESCRIPTION	PART NUMBER
1	DRY SURF	RZGGA6063E
2	GREASE	RZGGG6AG

SA-BTX68EF-K,

SA-BTX70EB/EG-K

GREASE DRAWINGS

1

2

3

4

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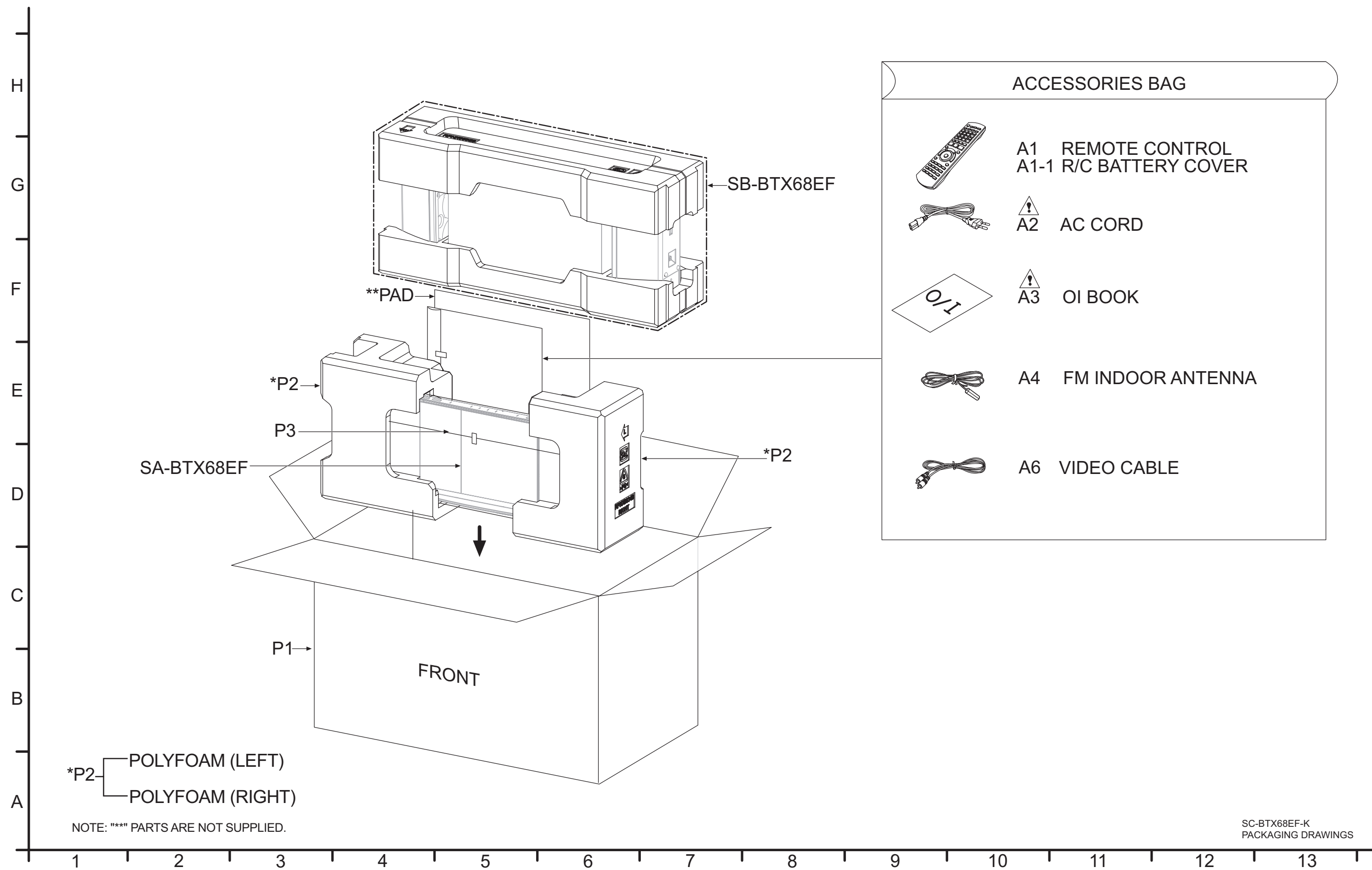
10

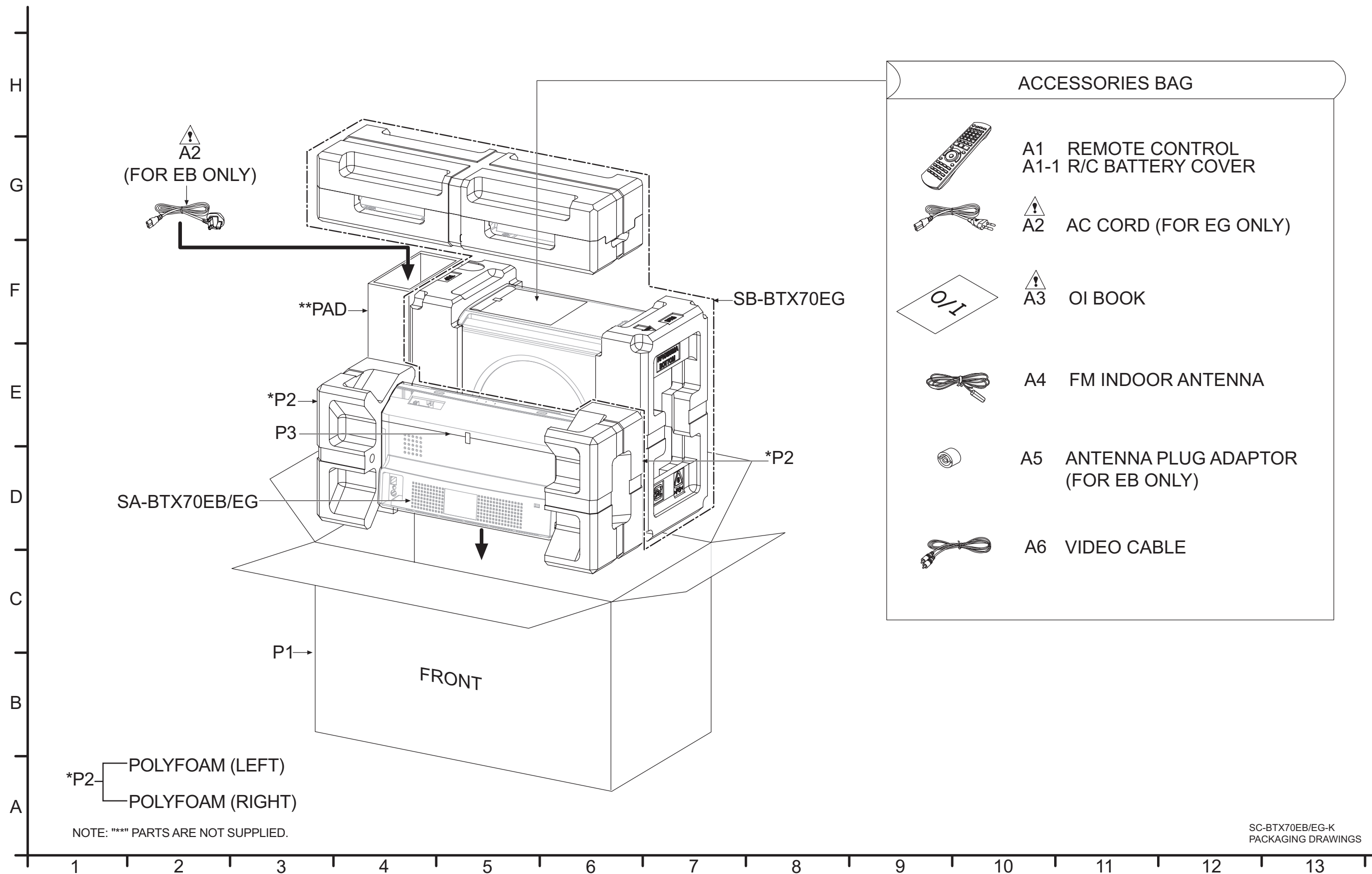
11

12

13

19.1.3. Packaging





19.1.4. Mechanical Replacement Part List

Important Safety Notice

Components identified by  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	RXQ1690	MOTOR ASS'Y	1	
	2	L6FAGA9G0001	FAN UNIT (SMALL)	1	
	3	L6FAJCCH0007	FAN UNIT (BIG)	1	
	4	RFKNABTX70EB	TOP ORNAMENT ASS'Y	1	
	5	RYK1577-K	FRONT CABINET ASS'Y	1	
	6	RFKHABTX70EB	REAR CABINET ASS'Y	1	EB/EG
	6	RFKHABTX68EF	REAR CABINET ASS'Y	1	EF
	7	RDG0546	PULLEY BELT	1	
	8	RDGX0050	MIDDLE GEAR	1	
	9	RDGX0051	DRIVE GEAR	1	
	10	RYP1496-K	DOOR ASS'Y	1	EB/EG
	10	RYP1496B-K	DOOR ASSY	1	EF
	11	RDPV0001	LID ROLLER	4	
	12	RDVX0001	BELT	1	
	13	REX1360	4P WIRE (MAIN-DIGITAL)	1	
	14	REX1362	11P WIRE (SMPS-MAIN)	1	
	15	REX1366	5P WIRE (DIGITAL-SD USB)	1	
	16	REX1367	8P WIRE (SMPS-DAMP)	1	
	17	REX1361	10P WIRE (TUNER-MAIN);CN6600	1	
	18	REX1370	4P WIRE (MECHASW-DIGITAL);P6300	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	19	REX1379	4P WIRE (iPod FAN-DIGITAL);P6450	1	
	20	REX1363	2P WIRE (MOTOR-MAIN);P6400	1	
	21	REX1368	5P WIRE (PANEL-POWER BUTTON);P6500	1	
	22	REX1364	4P WIRE (DOOR SW-MAIN);P6700	1	
	23	REX1365	3P WIRE (IR-iPod FAN);P6800	1	
	24	REXX0741	3P WIRE (POWER BUTTON-VOLUME BUTTON);P6501-2	1	
	25	REZ1948	28P FFC (MAIN-DIGITAL)	1	
	26	REZ1949	20P FFC (MAIN-DIGITAL)	1	
	27	REZ1950	30P FFC (MAIN-DIGITAL)	1	
	28	REZ1951	17P FFC (FL-MAIN)	1	
	29	REZ1952	19P FFC (WIRELESS-MAIN)	1	
	30	REZ1953	22P FFC (D-AMP-MAIN)	1	
	31	REZ1954	14P FFC (iPod-MAIN)	1	
	32	REZ1955	45P FFC (BD-RELAY-DIGITAL)	1	
	33	REZ1956	12P FFC (BD-RELAY-DIGITAL)	1	
	34	REZ1957	13P WIRE (SD-DIGITAL)	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	35	REZ1962	1P WIRE (FFCLESS-LEFT CHASSIS UNIT)	1	
⚠	36	REX1380	RED WIRE (SMPS-AC);TL1	1	
⚠	37	REX1381	BLACK WIRE (SMPS-AC);TL2	1	
	38	REX1369	2P WIRE (PANEL-iPod Sw);P6100	1	
	39	RGK2199-K	RIGHT ORNAMENT	1	
	40	RGPX0379-K2	GUIDE REEL A	1	
	41	RGPX0380-K2	GUIDE REEL B	1	
	42	RGPX0383-K3	DOCKING TUB	1	
	43	RGV0379-K	PUSH LEVER KNOB	1	
	44	RGK2198-K	LEFT ORNAMENT	1	
	45	RHD26056	SCREW	3	
	46	RHD30111-31	SCREW	2	
	47	RHQX0003	MINI SIDE LOCK	1	
	48	RMC0667	EARTH SPRING	1	
	49	RMC0780	IPOD SPRING PLATE	1	
	50	RXX0600-2	SMPS CHASSIS UNIT	1	
	51	RMXX0158-K3	DOCKING HOLDER	1	
	52	RMXX0159-1	GEAR FIXTURE	1	
	53	RHD14136	SCREW	7	
	54	RHD26043-1	SCREW	7	
	55	RHD26046	SCREW	29	
	56	RHD30090-1	SCREW	26	
	57	RHD30119-K	SCREW	10	
	58	RKAX0028-K	LEG CUSHION	4	
	59	RMG0786-H	RADIATION RUBBER	1	
	60	RXX0596	LEFT CHASSIS UNIT	1	
	61	RMK0740	FAN CHASSIS	1	
	62	RXX0597	RIGHT CHASSIS UNIT	1	
	63	RYF0871-K	SD USB WIRELESS ASS'Y	1	
	64	RMXX0157-K2	DOCKING COVER	1	
	65	RMXX0160-1	GEAR BASE	1	
	66	RMN0930	BD MECHA CHASSIS	1	
	67	RMN0934	EMC ANGLE	1	
	68	RMN0935	RELAY PCB ANGLE	1	
	69	RMNX0260	FL HOLDER	1	
	70	RMQ1555	GASKET DIGITAL	1	
	71	RMQ1769-J	GASKET	3	
	72	J3CBBC000002	TUNER PACK; Z6601	1	
	73	RMQX0381	PANEL CUSHION	1	
	74	RMZ1022	BARRIER SHEET UPPER 0	1	
	75	RMZ1023	BARRIER SHEET UPPER 1	1	
	76	RMZ1024	BARRIER SHEET BOTTOM 0	1	
	77	RMZ1025-1	BARRIER SHEET BOTTOM 1	1	
	78	RMZ1032	TUNER COVER SHEET	1	
	79	RMZ1056	SD USB PCB COVER	1	
	80	RMZ1057	iPod FFC COVER	1	
	81	RSC0839	RADIATOR SHEET	1	
	82	RSC0891	SMPS SHIELD UPPER	1	
	83	RSC0902	USB SD SHIELD	1	
	84	RSC0901	SUB REAR SHIELD	1	
	85	RXQX0114	REAR SHIELD ASSY	1	
	86	RMC0776	SD USB SPRING PLATE	2	
	87	XTB2+6GFJK	SCREW	14	
	88	XTB3+10JFJ	SCREW	5	
	89	XTB3+10JFJK	SCREW	2	
	90	XSN3+4FJK	SCREW	1	
⚠	91	RFKNBTX70EB	BD MECHANISM / DIGITAL P.C.B	1	EB

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
⚠	91	RFKNBTX70EG	BD MECHANISM / DIGITAL P.C.B	1	EG
⚠	91	RFKNBTX68EF	BD MECHANISM / DIGITAL P.C.B	1	EF
	92	J0KD00000018	FERRITE CORE (SHORT)	6	
	93	J0KD000000119	FERRITE CORE (LONG)	2	
	94	J0KG000000011	FERRITE CORE (RING)	2	
	95	XTB3+8JFJ	SCREW	2	
	96	XSN2+4FJ	SCREW	2	
	97	RMB0906	MECHA SWITCH SPRING	1	
	98	RMF0450	HIMELON	9	
	98	RMV0356	MECHA SWITCH COVER	1	EB/EG
	99	XTW3+16TFJK	SCREW	1	
	100	RSC0908	DIGITAL P.C.B SHIELD F	1	
	101	RMX0459	SUPPORT CUSHION (F)	1	
	102	RSC0909	MAIN P.C.B SHIELD F	1	
	103	RSC0910	MAIN P.C.B SHIELD R	1	
	104	REE1521	1P COXIAL CABLE (DIGITAL-SD);EMC1	1	
			PACKING MATERIALS		
	P1	RPG8806	PACKING CASE	1	EG
	P1	RPG8807	PACKING CASE	1	EB
	P1	RPG8850	PACKING CASE	1	EF
	P2	RPN2111	POLYFOAM	1	EB/EG
	P2	RPNX0634	POLYFOAM	1	EF
	P3	RPF0058-1J	MIRAMAT	1	
			ACCESSORIES		
	A1	N2QAKB000073	REMOTE CONTROL	1	
	A1-1	RKK-PT470EBK	R/C BATTERY COVER	1	
⚠	A2	K2CQ2CA00007	AC CORD	1	EG/EF
⚠	A2	K2CZ3YY00005	AC CORD	1	EB
⚠	A3	RQT9464-B	O/I BOOK (En)	1	EB/EG
⚠	A3	RQT9465-D	O/I BOOK (Fr)	1	EG
⚠	A3	RQT9466-E	O/I BOOK (It/Ge)	1	EG
⚠	A3	RQT9467-H	O/I BOOK (Sp/Du)	1	EG
⚠	A3	RQT9468-J	O/I BOOK (Da/Sw)	1	EG
⚠	A3	RQT9469-R	O/I BOOK (Ru/Ur)	1	EG
⚠	A3	RQT9488-D	O/I BOOK (Fr)	1	EF
	A4	RSAX0002	FM INDOOR ANTENNA	1	
	A5	K1YZ02000013	ANTENNA PLUG ADAPTOR	1	EB
	A6	K2KA2BA00001	VIDEO CABLE	1	

19.2. Electrical Replacement Part List

Important Safety Notice

Components identified by $\triangle$ 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		
	PCB1	RFKB4521A	MAIN P.C.B	1	(RTL)
	PCB2	REP4520A	DIGITAL P.C.B	1	(RTL)
$\triangle$	PCB3	REP4522A	SMPS P.C.B	1	(RTL)
	PCB4	REP4523A	D-AMP P.C.B	1	(RTL) EB/EG
	PCB5	REP4523B	D-AMP P.C.B	1	(RTL) EF
	PCB6	REP4524A	FL P.C.B	1	(RTL)
	PCB7	REP4525A	RELAY P.C.B	1	(RTL)
	PCB8	REPX0631A-C	iPod P.C.B	1	(RTL)
	PCB9	REP4524A	TUNER P.C.B	1	(RTL)
	PCB10	REP4524A	POWER BUTTON P.C.B	1	(RTL)
	PCB11	REP4524A	VOLUME BUTTON P.C.B	1	(RTL)
	PCB12	REP4524A	DOOR SWITCH P.C.B	1	(RTL)
	PCB13	REP4524A	MECHANISM SWITCH P.C.B	1	(RTL)
	PCB14	REP4524A	IR P.C.B	1	(RTL)
	PCB15	REP4524A	MOTOR P.C.B	1	(RTL)
	PCB16	REP4524A	SD USB P.C.B	1	(RTL)
	PCB17	REP4524A	iPod SWITCH P.C.B	1	(RTL)
	PCB18	REP4524A	iPod FAN P.C.B	1	(RTL)
	PCB19	REP4524A	WIRELESS ADAPTER P.C.B	1	(RTL)
$\triangle$	PCB20	REP4522A	AC INLET P.C.B	1	(RTL)
			INTEGRATED CIRCUITS		
	IC100	RFKWMBTX70EB	IC	1	EB
	IC100	RFKWMBTX70EG	IC	1	EG
	IC100	RFKWMBTX68EF	IC	1	EF
	IC101	C0JBAZ002843	IC	1	
	IC102	C0EBE0000242	IC	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	IC104	C0CBABC00117	IC	1	
	IC105	RFKWMBTX70EB	IC	1	EB
	IC105	RFKWMBTX70EG	IC	1	EG
	IC105	RFKWMBTX68EF	IC	1	EF
	IC303	C3ABMG000238	IC	1	
	IC305	RFKWFMTX70EB	IC	1	EB
	IC305	RFKWFMTX70EG	IC	1	EG
	IC305	RFKWFMTX68EF	IC	1	EF
	IC306	C2HBZY000024	IC	1	
	IC401	C0ABBB000125	IC	1	
	IC501	C0ABBB000189	IC	1	
	IC512	C1AB00002751	IC	1	
	IC1001	C0DBZHE00026	IC	1	
	IC1101	C0ABAA000114	IC	1	
	IC1102	C0ABBB000189	IC	1	
	IC1451	MFI341S2161	IC	1	
	IC3001	C0JBAB000061	IC	1	
	IC4001	C1AB00002951	IC	1	
	IC4304	C0ABBB000125	IC	1	
	IC4305	C0ABBB000125	IC	1	
	IC5001	C0ZBZ0001673	IC	1	
	IC5003	C0ZBZ0001675	IC	1	
	IC5009	C0CBADD00010	IC	1	
	IC5701	C5HACY000003	IC	1	
	IC5799	MIP2F20MSSCF	IC	1	
	IC5801	C0DABFC00002	IC	1	
	IC5899	C0DAEMZ00001	IC	1	
	IC6001	C0HBB0000057	IC	1	
	IC7001	C0DBAYY00333	IC	1	
	IC7002	C0DBZYY00018	IC	1	
	IC7003	C0DBZH000047	IC	1	
	IC7004	C0GAE0000007	IC	1	
	IC7101	C0DBAYH00007	IC	1	
	IC7102	C0DBZYY00018	IC	1	
$\triangle$	IC51001	RFKB4520A	IC	1	
	IC51003	C0EBE0000368	IC	1	
	IC51004	C0JBAB0000422	IC	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
⚠	IC51301	RFKB4520A	IC	1	
⚠	IC51601	RFKB4520A	IC	1	
	IC51602	C0DBEY000002	IC	1	
	IC51603	C0DBZHE00024	IC	1	
	IC52001	C3ABTG000009	IC	1	
	IC52002	C3ABTG000009	IC	1	
	IC52201	C3ABSG000053	IC	1	
	IC52202	C3ABSG000053	IC	1	
	IC53003	C1AB00003097	IC	1	
	IC54001	C0ABBB000189	IC	1	
	IC54002	C0ABBB000189	IC	1	
	IC54005	C0ABBB000189	IC	1	
	IC54006	C0FBKK000069	IC	1	
	IC54007	C0JBAR000434	IC	1	
	IC54012	C0ABBB000189	IC	1	
	IC54017	C0CBCBE00005	IC	1	
	IC54900	C0FBAK000026	IC	1	
	IC55001	C0DBFZG00001	IC	1	
	IC55002	C0CBCY000004	IC	1	
	IC55005	AN41214A-VF	IC	1	
	IC56001	C0CBCDD00004	IC	1	
	IC56034	C0DBEY000016	IC	1	
	IC56035	C0DBGFD00024	IC	1	
	IC56036	MN864704AKP	IC	1	
	IC57000	C0JBAR000434	IC	1	
	IC58001	C0DBAYH00274	IC	1	
	IC58003	C0DBAYH00007	IC	1	
	IC59001	C1CB00002965	IC	1	
			TRANSISTORS		
	Q401	B1GFGCAA0001	TRANSISTOR	1	
	Q402	B1GFGCAA0001	TRANSISTOR	1	
	Q1101	B1ABCF000176	TRANSISTOR	1	
	Q1102	B1ADCE000012	TRANSISTOR	1	
	Q1103	B1ADCE000012	TRANSISTOR	1	
	Q4304	B1GFGCAA0001	TRANSISTOR	1	
	Q4305	B1GFGCAA0001	TRANSISTOR	1	
	Q5001	B1HBDCA00001	TRANSISTOR	1	
	Q5002	B1HBDCA00001	TRANSISTOR	1	
	Q5006	B1ABCF000176	TRANSISTOR	1	
	Q5007	B1ABCF000176	TRANSISTOR	1	
	Q5008	B1BACD000018	TRANSISTOR	1	
	Q5009	B1ABCF000176	TRANSISTOR	1	
	Q5012	B1ABCF000176	TRANSISTOR	1	
	Q5013	B1ABCF000176	TRANSISTOR	1	
	Q5014	2SB0621AHA	TRANSISTOR	1	
	Q5015	B1ADCE000012	TRANSISTOR	1	
	Q5016	B1ABCF000020	TRANSISTOR	1	
	Q5017	B1BBCF000006	TRANSISTOR	1	
	Q5101	B1CBRK000001	TRANSISTOR	1	
	Q5102	B1CBRK000001	TRANSISTOR	1	
	Q5201	B1CBRK000001	TRANSISTOR	1	
	Q5202	B1CBRK000001	TRANSISTOR	1	
	Q5301	B1CBRK000001	TRANSISTOR	1	
	Q5302	B1CBRK000001	TRANSISTOR	1	
	Q5720	2SC3940ARA	TRANSISTOR	1	
	Q5861	B1ADCE000012	TRANSISTOR	1	
	Q5862	B1ABCF000176	TRANSISTOR	1	
	Q5863	B1ABCF000176	TRANSISTOR	1	
	Q5898	B1ABCF000176	TRANSISTOR	1	
	Q5899	B1ABCF000176	TRANSISTOR	1	
	Q6451	B1ABCF000176	TRANSISTOR	1	
	Q6452	B1BACD000018	TRANSISTOR	1	
	Q6501	B1GBCFGN0018	TRANSISTOR	1	
	Q7001	B1BABK000001	TRANSISTOR	1	
	Q7002	B1CHPD000003	TRANSISTOR	1	
	Q7003	B1CHPD000003	TRANSISTOR	1	
	Q7004	2SB0621AHA	TRANSISTOR	1	
	Q7005	B1ADCE000012	TRANSISTOR	1	
	Q7006	2SC3940ARA	TRANSISTOR	1	
	Q7007	B1ABCF000176	TRANSISTOR	1	
	Q7008	B1ABCF000176	TRANSISTOR	1	
	Q7009	B1BAAJ000003	TRANSISTOR	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	Q7050	B1ABCF000176	TRANSISTOR	1	
	Q56001	2SD1819K0L	TRANSISTOR	1	
	Q56002	2SD1819K0L	TRANSISTOR	1	
	Q56003	2SD1819K0L	TRANSISTOR	1	
	Q56004	2SD1819K0L	TRANSISTOR	1	
	Q56005	2SD1819K0L	TRANSISTOR	1	
	Q56501	2SA153200L	TRANSISTOR	1	
	Q56502	2SA153200L	TRANSISTOR	1	
	Q56503	2SA153200L	TRANSISTOR	1	
	Q58002	B1ADCF000172	TRANSISTOR	1	
	Q58004	B1MBEDA00026	TRANSISTOR	1	
	Q58005	B1MBEDA00026	TRANSISTOR	1	
	QR101	B1GBCFLL0037	TRANSISTOR	1	
	QR102	B1GDCFJJ0008	TRANSISTOR	1	
	QR504	B1ADCE000012	TRANSISTOR	1	
	QR1101	B1GBCFJJ0051	TRANSISTOR	1	
	QR1102	B1GBCFJJ0051	TRANSISTOR	1	
	QR4010	B1GDCFJJ0008	TRANSISTOR	1	
	QR4013	B1GDCFJJ0008	TRANSISTOR	1	
	QR5000	B1GDCFNN0032	TRANSISTOR	1	
	QR5001	B1GBCFJJ0007	TRANSISTOR	1	
	QR5003	B1GDCFJJ0008	TRANSISTOR	1	
	QR5005	B1GBCFJJ0007	TRANSISTOR	1	
	QR5071	B1GBCFJA0017	TRANSISTOR	1	
	QR5801	UNR221400L	TRANSISTOR	1	
	QR7001	B1GBCFGG0030	TRANSISTOR	1	
	QR7051	B1GDCFJJ0047	TRANSISTOR	1	
	QR7101	B1GBCFJJ0001	TRANSISTOR	1	
	QR51001	UNR51ALJ0L	TRANSISTOR	1	
	QR51002	UNR51ALJ0L	TRANSISTOR	1	
	QR51003	UNR52ALJ0L	TRANSISTOR	1	
	QR51004	UNR52ALJ0L	TRANSISTOR	1	
	QR54005	UNR521100L	TRANSISTOR	1	
	QR55001	UNR91A5J0L	TRANSISTOR	1	
	QR55006	UNR91A5J0L	TRANSISTOR	1	
	QR58002	B1GBCFNN0041	TRANSISTOR	1	
	QR58005	B1GBCFNN0041	TRANSISTOR	1	
	QR58006	B1GBCFNN0041	TRANSISTOR	1	
			DIODES		
	D404	B0ACCK000005	DIODE	1	
	D405	B0ACCK000005	DIODE	1	
	D406	B0ACCK000005	DIODE	1	
	D500	MAZ8051GML	DIODE	1	
	D501	MA2J1110GL	DIODE	1	
	D3000	B0ECKP000002	DIODE	1	
	D4001	B0ACCK000005	DIODE	1	
	D4002	B0ACCK000005	DIODE	1	
	D5002	MA2J1110GL	DIODE	1	
	D5005	MA2J1110GL	DIODE	1	
	D5006	MA2J1110GL	DIODE	1	
	D5007	MA2J1110GL	DIODE	1	
	D5008	MA2J1110GL	DIODE	1	
	D5010	MA2J1110GL	DIODE	1	
	D5011	MAZ8051GML	DIODE	1	
	D5013	MAZ8075GML	DIODE	1	
	D5014	MAZ8120GML	DIODE	1	
	D5015	MAZ8110GML	DIODE	1	
	D5072	MA2J1110GL	DIODE	1	
	D5101	B0ACCK000005	DIODE	1	
	D5102	B0ACCK000005	DIODE	1	
	D5107	B0HCMM000019	DIODE	1	
	D5108	B0HCMM000019	DIODE	1	
	D5201	B0ACCK000005	DIODE	1	
	D5202	B0ACCK000005	DIODE	1	
	D5207	B0HCMM000019	DIODE	1	
	D5208	B0HCMM000019	DIODE	1	
	D5301	B0ACCK000005	DIODE	1	
	D5302	B0ACCK000005	DIODE	1	
	D5303	MA2J1110GL	DIODE	1	
	D5304	MA2J1110GL	DIODE	1	
	D5305	MA2J1110GL	DIODE	1	
	D5306	MA2J1110GL	DIODE	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	D5307	B0HCMM000019	DIODE	1	
	D5308	B0HCMM000019	DIODE	1	
	D5701	B0FBAR000041	DIODE	1	
	D5702	B0ZAZ0000052	DIODE	1	
	D5721	MAZ8200GML	DIODE	1	
	D5722	MAZ8200GML	DIODE	1	
	D5723	MA2J1110GL	DIODE	1	
	D5724	MA2J1110GL	DIODE	1	
	D5725	MAZ8062GML	DIODE	1	
	D5726	MA2J1110GL	DIODE	1	
	D5727	MA2J1110GL	DIODE	1	
	D5729	B0EAMM000057	DIODE	1	
	D5730	MA2YF8000L	DIODE	1	
	D5731	B0EAMM000057	DIODE	1	
	D5732	MAZ8300GML	DIODE	1	
	D5733	MAZ8220GML	DIODE	1	
	D5793	B0HAMP000094	DIODE	1	
	D5798	B0EAMM000057	DIODE	1	
	D5799	B0EDKT000009	DIODE	1	
	D5801	B0HBSM000043	DIODE	1	
	D5802	B0HBSM000054	DIODE	1	
	D5803	B0HFRJ000012	DIODE	1	
	D5804	B0EAMM000057	DIODE	1	
	D5805	B0EAMM000057	DIODE	1	
	D5806	MA2J1110GL	DIODE	1	
	D5807	MA2J1110GL	DIODE	1	
	D5809	MA2J1110GL	DIODE	1	
	D5810	MA2J1110GL	DIODE	1	
	D5811	MAZ8075GML	DIODE	1	
	D5896	B0EAMM000057	DIODE	1	
	D5899	MA2J1110GL	DIODE	1	
	D6451	MAZ8068GML	DIODE	1	
	D6501	B3AAA0000803	DIODE	1	
	D7001	MAZ8180GML	DIODE	1	
	D7002	MAZ8180GML	DIODE	1	
	D7003	MAZ8270GML	DIODE	1	
	D7004	MAZ8033GML	DIODE	1	
	D7005	B0JCMD000010	DIODE	1	
	D7006	B0JAME000029	DIODE	1	
	D7011	B0JCPG000005	DIODE	1	
	D7012	B0JCPG000005	DIODE	1	
	D7013	MA2J1110GL	DIODE	1	
	D7014	MA2J1110GL	DIODE	1	
	D7015	MA2J1110GL	DIODE	1	
	D7016	MA2J1110GL	DIODE	1	
	D7017	MA2J1110GL	DIODE	1	
	D7018	MA2J1110GL	DIODE	1	
	D7019	MA2J1110GL	DIODE	1	
	D7020	MA2J1110GL	DIODE	1	
	D7021	MA2J1110GL	DIODE	1	
	D7022	MA2J1110GL	DIODE	1	
	D7023	MAZ8270GML	DIODE	1	
	D7024	MAZ8075GML	DIODE	1	
	D7031	MAZ8075GML	DIODE	1	
	D7033	MAZ8068GML	DIODE	1	
	D7035	MAZ8100GHL	DIODE	1	
	D7036	MAZ8068GML	DIODE	1	
	D7037	MAZ8100GHL	DIODE	1	
	D7038	MAZ8130GHL	DIODE	1	
	D7039	B0BC6R100010	DIODE	1	
	D7050	MA2J1110GL	DIODE	1	
	D7101	B0JCND000019	DIODE	1	
	D7102	MAZ8024G0L	DIODE	1	
	D7103	MAZ8051GML	DIODE	1	
	D58001	MA2J1110GL	DIODE	1	
	D58002	B0JCND000021	DIODE	1	
	D58004	MA2SD320GL	DIODE	1	
	D58005	MA2SD320GL	DIODE	1	
	D58008	B0JCND000060	DIODE	1	
	D58009	B0JCND000060	DIODE	1	
⚠	DZ5701	ERZV10V511CS	ZNR	1	
			VARISTORS		

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	VA6901	EZJZ1V171AA	VARISTOR	1	
	VA6902	EZJZ1V171AA	VARISTOR	1	
			SWITCHES		
	S6101	K0L1BA000078	SW iPod Dock Open	1	
	S6301	K0L1BA000007	SW BD SENSOR	1	
	S6302	K0L1BA000007	SW BD SENSOR	1	
	S6311	K0L1BA000007	SW DVD/CD SENSOR	1	
	S6312	K0L1BA000007	SW DVD/CD SENSOR	1	
	S6501	EVQ11G04M	SW POWER	1	
	S6502	EVQ11G04M	SW OPEN/CLOSE	1	
	S6503	EVQ11G04M	SW iPod	1	
	S6504	EVQ11G04M	SW STOP	1	
	S6505	EVQ11G04M	SW PAUSE	1	
	S6506	EVQ11G04M	SW PLAY	1	
	S6507	EVQ11G04M	SW DISC OPEN/CLOSE	1	
	S6511	EVQ11G04M	SW REW	1	
	S6512	EVQ11G04M	SW FWD	1	
	S6513	EVQ11G04M	SW BD/SD	1	
	S6514	EVQ11G04M	SW VOL -	1	
	S6515	EVQ11G04M	SW VOL+	1	
	S6516	EVQ11G04M	SW RADIO/ EXT-IN	1	
	S6701	K0L1BA000078	SW LEFT	1	
	S6702	K0L1BA000078	SW CENTER	1	
	S6703	K0L1BA000078	SW RIGHT	1	
	PSW1	D4FB1R100009	SW	1	
			CONNECTORS		
	CN101	K1MN06BA0004	6P CONNECTOR	1	
	CN102	K1KA06AA0083	6P CONNECTOR	1	
	CN201	K1KA04BA0061	4P CONNECTOR	1	
	CN301	K1KA03BA0061	3P CONNECTOR	1	
	CN401	K1MN22BA0005	22P CONNECTOR	1	
	CN501	K1MN30BA0005	30P CONNECTOR	1	
	CN502	K1MN28BA0005	28P CONNECTOR	1	
	CN601	K1MN17BA0005	17P CONNECTOR	1	
	CN801	K1KA10BA0062	10P CONNECTOR	1	
	CN901	K1MN19BA0005	19P CONNECTOR	1	
	CN1001	MFI514S0117	30P CONNECTOR (iPod)	1	
	CN1002	K1MN14BA0141	14P CONNECTOR	1	
	CN1101	K1MN14BA0004	14P CONNECTOR	1	
	CN1603	K1KA05BA0014	5P CONNECTOR	1	
	CN5502	K1KA08AA0180	8P CONNECTOR	1	
	CN5503	K1MN22AA0004	22P CONNECTOR	1	
	CN5506	K1KA03AA0301	3P CONNECTOR	1	
	CN5802	K1YZ11000002	11P CABLE HOLDER	1	
	CN6110	K1MN19BA0005	19P CONNECTOR	1	
	CN6111	K1MY26A00001	26P CONNECTOR (WIRELESS)	1	
	CN6201	K1MN13AA0003	13P CONNECTOR	1	
	CN6900	K1FY104B0011	4P CONNECTOR (USB)	1	
	CN7001	K1KA11BA0062	11P CONNECTOR	1	
	CN7002	K1KA04BA0061	4P CONNECTOR	1	
	CN7003	K1KA02BA0061	2P CONNECTOR	1	
	FP6900	K1KA05BA0061	5P CONNECTOR	1	
	P300	K1MN10BA0004	10P CONNECTOR	1	
	P6001	K1MN17BA0005	17P CONNECTOR	1	
	P6002	K1KA05BA0061	5P CONNECTOR	1	
	P6011	K1KA02BA0061	2P CONNECTOR	1	
	P6201	K1NA12B00004	12P CONNECTOR (SD)	1	
	P6460	K1KA03AA0193	3P CONNECTOR	1	
	P51000	K1MN13AA0076	13P CONNECTOR	1	
	P51301	K1MN50AA0082	50P CONNECTOR	1	
	P51302	K1MN40AA0082	40P CONNECTOR	1	
	P51303	K1MN40BA0173	40P CONNECTOR	1	
	P51601	K1KA06BA0047	6P CONNECTOR	1	
	P54002	K1MY20AA0021	20P CONNECTOR	2	
	P55001	K1MN45AA0082	45P CONNECTOR	1	
	P55002	K1MN12AA0046	12P CONNECTOR	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	P55003	K1KA04AA0150	4P CONNECTOR	1	
	P55004	K1MY08AA0021	8P CONNECTOR	1	
	P55005	K1KA04BA0050	4P CONNECTOR	1	
	P55006	K1KA04BA0050	4P CONNECTOR	1	
	P55901	K1MN45BA0214	45P CONNECTOR	1	
	P55902	K1MN12BA0147	12P CONNECTOR	1	
	P55903	K1MN71BA0132	71P CONNECTOR	1	
	P55910	K1MN05BA0147	5P CONNECTOR	1	
	P55911	K1MN08BA0147	8P CONNECTOR	1	
	P58000	K1MN28AA0076	28P CONNECTOR	1	
	P58004	K1MN30AA0076	30P CONNECTOR	1	
			COILS AND INDUC-TORS		
	L301	J0JBC0000014	INDUCTOR	1	
	L302	J0JBC0000014	INDUCTOR	1	
	L303	J0JBC0000014	INDUCTOR	1	
	L382	J0JCC0000186	INDUCTOR	1	
	L401	J0JDC0000054	INDUCTOR	1	
	L402	J0JDC0000054	INDUCTOR	1	
	L403	J0JDC0000054	INDUCTOR	1	
	L404	J0JDC0000054	INDUCTOR	1	
	L803	J0JBC0000041	INDUCTOR	1	
	L804	J0JBC0000041	INDUCTOR	1	
	L805	J0JBC0000041	INDUCTOR	1	
	L1001	J0JHC0000107	INDUCTOR	1	
	L1002	J0JHC0000107	INDUCTOR	1	
	L1003	J0JHC0000107	INDUCTOR	1	
	L1004	J0JHC0000107	INDUCTOR	1	
	L1005	J0JHC0000107	INDUCTOR	1	
	L1006	J0JHC0000107	INDUCTOR	1	
	L1007	J0JHC0000107	INDUCTOR	1	
	L1008	J0JHC0000107	INDUCTOR	1	
	L1009	J0JHC0000107	INDUCTOR	1	
	L1010	J0JHC0000107	INDUCTOR	1	
	L1011	J0JHC0000107	INDUCTOR	1	
	L2001	J0JCC0000079	INDUCTOR	1	
	L2002	J0JDC0000054	INDUCTOR	1	
	L2003	J0JDC0000054	INDUCTOR	1	
	L5003	G0A150L00003	CHOKE COIL	1	
	L5004	G0A150L00003	CHOKE COIL	1	
	L5101	G0B9R5K00003	LINE FILTER	1	
	L5201	G0B9R5K00003	LINE FILTER	1	
	L5301	G0B9R5K00003	LINE FILTER	1	
⚠	L5701	ELF15N035AN	LINE FILTER	1	
⚠	L5702	ELF21N010A	LINE FILTER	1	
	L6601	J0JBC0000014	INDUCTOR	1	
	L7001	G0C390JA0055	INDUCTOR	1	
	L7002	G0A220GA0026	CHOKE COIL	1	
	L7003	G0A330ZA0028	CHOKE COIL	1	
	L7004	G0A330ZA0028	CHOKE COIL	1	
	L7005	G0A220GA0026	CHOKE COIL	1	
	L7006	G0A220GA0026	CHOKE COIL	1	
	L7007	G0A220GA0026	CHOKE COIL	1	
	L7009	G0A220GA0026	CHOKE COIL	1	
	L7012	G0A220GA0026	CHOKE COIL	1	
	L7013	G0A220GA0026	CHOKE COIL	1	
	L7014	G0A220GA0026	CHOKE COIL	1	
	L7103	G1C100M00041	INDUCTOR	1	
	L53001	G1C100K00019	INDUCTOR	1	
	L53002	G1C100K00019	INDUCTOR	1	
	L53003	G1C100K00019	INDUCTOR	1	
	L54002	G1C100K00019	INDUCTOR	1	
	L55001	G1C220MA0291	INDUCTOR	1	
	L55002	G1C100KA0101	INDUCTOR	1	
	L55004	J0JBC0000014	INDUCTOR	1	
	L55005	J0JBC0000014	INDUCTOR	1	
	L55006	J0JBC0000014	INDUCTOR	1	
	L55007	J0JBC0000014	INDUCTOR	1	
	L56001	G1C100K00019	INDUCTOR	1	
	L56002	G1C100K00019	INDUCTOR	1	
	L56007	J0MAB0000235	FILTER	1	
	L56008	J0MAB0000235	FILTER	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	L57000	G1C100K00019	INDUCTOR	1	
	L57001	G1C100K00019	INDUCTOR	1	
	L58001	G1C100M00041	INDUCTOR	1	
	L58003	G1C3R3Z00005	INDUCTOR	1	
	L58004	G1C3R3Z00005	INDUCTOR	1	
	L59001	J0MAB0000170	FILTER	1	
	L59002	J0MAB0000170	FILTER	1	
	LB260	J0JGC0000020	INDUCTOR	1	
	LB270	J0JGC0000020	INDUCTOR	1	
	LB310	J0JBC0000041	INDUCTOR	1	
	LB317	J0JBC0000041	INDUCTOR	1	
	LB322	J0JBC0000041	INDUCTOR	1	
	LB604	J0JBC0000041	INDUCTOR	1	
	LB605	J0JBC0000041	INDUCTOR	1	
	LB606	J0JBC0000014	INDUCTOR	1	
	LB607	J0JBC0000014	INDUCTOR	1	
	LB608	J0JBC0000014	INDUCTOR	1	
	LB609	J0JBC0000014	INDUCTOR	1	
	LB610	J0JBC0000014	INDUCTOR	1	
	LB611	J0JBC0000014	INDUCTOR	1	
	LB612	J0JBC0000014	INDUCTOR	1	
	LB613	J0JBC0000014	INDUCTOR	1	
	LB614	J0JBC0000014	INDUCTOR	1	
	LB615	J0JBC0000014	INDUCTOR	1	
	LB616	J0JBC0000014	INDUCTOR	1	
	LB617	J0JBC0000014	INDUCTOR	1	
	LB618	J0JBC0000014	INDUCTOR	1	
	LB619	J0JBC0000014	INDUCTOR	1	
	LB3001	J0JHC0000048	INDUCTOR	1	
	LB3002	J0JGC0000020	INDUCTOR	1	
	LB6201	J0JHC0000045	INDUCTOR	1	
	LB6202	J0JHC0000045	INDUCTOR	1	
	LB6203	J0JHC0000045	INDUCTOR	1	
	LB6204	J0JHC0000045	INDUCTOR	1	
	LB6205	J0JHC0000045	INDUCTOR	1	
	LB6207	J0JHC0000045	INDUCTOR	1	
	LB6208	J0JHC0000045	INDUCTOR	1	
	LB6209	J0JHC0000045	INDUCTOR	1	
	LB6210	J0JHC0000045	INDUCTOR	1	
	LB6211	J0JHC0000045	INDUCTOR	1	
	LB6212	J0JEC0000008	INDUCTOR	1	
	LB6213	J0JHC0000045	INDUCTOR	1	
	LB6214	J0JEC0000008	INDUCTOR	1	
	LB6901	J0JHC0000068	INDUCTOR	1	
	LB6902	J0JHC0000068	INDUCTOR	1	
	LB7001	J0JBC0000041	INDUCTOR	1	
	LB7002	J0JBC0000041	INDUCTOR	1	
	LB7004	J0JBC0000041	INDUCTOR	1	
	LB7101	J0JHC0000032	INDUCTOR	1	
	LB7104	J0JHC0000105	INDUCTOR	1	
	LB51001	J0JFC0000008	INDUCTOR	1	
	LB51002	J0JFC0000008	INDUCTOR	1	
	LB51003	J0JFC0000008	INDUCTOR	1	
	LB51006	J0JHC0000118	INDUCTOR	1	
	LB51007	J0JHC0000118	INDUCTOR	1	
	LB51009	J0JHC0000118	INDUCTOR	1	
	LB51010	J0JHC0000118	INDUCTOR	1	
	LB51012	J0JKC0000021	INDUCTOR	1	
	LB51015	J0JFC0000008	INDUCTOR	1	
	LB51016	J0JFC0000008	INDUCTOR	1	
	LB51017	J0JFC0000008	INDUCTOR	1	
	LB51018	J0JFC0000008	INDUCTOR	1	
	LB51019	J0JHC0000118	INDUCTOR	1	
	LB51301	J0JFC0000008	INDUCTOR	1	
	LB51601	J0JHC0000032	INDUCTOR	1	
	LB51602	J0JHC0000045	INDUCTOR	1	
	LB51603	J0JGC0000020	INDUCTOR	1	
	LB52002	J0JHC0000118	INDUCTOR	1	
	LB52003	J0JHC0000118	INDUCTOR	1	
	LB52202	J0JHC0000118	INDUCTOR	1	
	LB52203	J0JHC0000118	INDUCTOR	1	
	LB54900	J0JBC0000041	INDUCTOR	1	
	LB54901	J0JBC0000041	INDUCTOR	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	LB55001	J0JJC0000005	INDUCTOR	1	
	LB55002	J0JJC0000005	INDUCTOR	1	
	LB56501	J0JFC0000008	INDUCTOR	1	
	LB56502	J0JFC0000008	INDUCTOR	1	
	LB57001	J0JGC0000020	INDUCTOR	1	
	LB58021	J0JHC0000018	INDUCTOR	1	
	LB58323	J0JHC0000045	INDUCTOR	1	
	LB59001	J0JGC0000020	INDUCTOR	1	
	LB59002	J0JGC0000020	INDUCTOR	1	
	LB59003	J0JGC0000020	INDUCTOR	1	
	LB59004	J0JGC0000020	INDUCTOR	1	
	LB59005	J0JGC0000020	INDUCTOR	1	
			TRANSFORMERS		
⚠	T5701	ETS42BM1F6AC	MAIN TRANSFORMER	1	
⚠	T5751	ETS19AB2A6AG	BACKUP TRANSFORMER	1	
⚠	T7001	G4D1A0000117	SWITCHING TRANSFORMER	1	
⚠	T51601	J0MAB0000200	FILTER	1	
			COMPONENT COMBINATION		
	IR6801	B3RAD0000049	REMOTE SENSOR	1	
			PHOTO COUPLERS		
⚠	PC5702	B3PBA0000402	PHOTO COUPLER	1	
⚠	PC5720	B3PBA0000402	PHOTO COUPLER	1	
⚠	PC5799	B3PBA0000402	PHOTO COUPLER	1	
			OSCILLATORS		
	X100	H2B100500004	CRYSTAL OSCILLATOR	1	
	X504	H0J433400003	CRYSTAL OSCILLATOR	1	
	X3001	H0J245500091	CRYSTAL OSCILLATOR	1	
	X51001	H0J270500128	CRYSTAL OSCILLATOR	1	
	X51003	H0J333500005	CRYSTAL OSCILLATOR	1	
	X51004	H0J240500026	CRYSTAL OSCILLATOR	1	
	X59001	H0J250500093	CRYSTAL OSCILLATOR	1	
			FL DISPLAY		
	DP6001	A2BB00000169	LCD DISPLAY	1	
			RELAY		
⚠	RY701	K6B1AEA00003	RELAY	1	
			FUSES		
⚠	F1	K5D312BLA015	FUSE	1	
⚠	F2	K5G162B00016	FUSE	1	
			FUSE HOLDERS		
	ZA5701	K3GE1ZZ00001	FUSE HOLDER	1	
	ZA5702	K3GE1ZZ00001	FUSE HOLDER	1	
			FUSE PROTECTORS		
⚠	IP7001	K5H7512A0010	PROTECTOR	1	
⚠	IP55004	K5H252Z00003	PROTECTOR	1	
⚠	IP55005	K5H202Z00005	PROTECTOR	1	
⚠	IP58301	ERBSE3R00U	PROTECTOR	1	
			THERMISTOR		
⚠	TH5702	D4CAA5R10001	THERMISTOR	1	
			JACKS		
	IC57001	B3RAB0000056	JK OPTICAL DIGITAL IN 1 TV	1	
	IC57002	B3RAB0000056	JK OPTICAL DIGITAL IN 2 STB	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	JK401	K2HC1YYB0033	JK HEADPHONE	1	
	JK2001	K2HC1YYB0033	JK AUX	1	
	JK53001	K2HA1YYB0022	JK VIDEO OUT	1	
	JK56001	K1FA119E0013	JK HDMI AV OUT	1	
	JK59001	K2LC108B0096	JK LAN	1	
⚠	P5701	K2AA2B000017	AC INLET	1	
	P5501	K4AL06B00005	JK SPEAKER	1	
			CHIP JUMPERS		
	K401	D0GBR00JA008	0 1/16W	1	
	K524	D0GBR00JA008	0 1/16W	1	
	K1102	D0GBR00JA008	0 1/16W	1	
	K5000	D0GDR00JA008	0 1/16W	1	
	K5722	D0GDR00JA017	0 1/10W	1	
	K5724	D0GDR00JA017	0 1/10W	1	
	K6001	D0GBR00JA008	0 1/16W	1	
	K6003	D0GBR00JA008	0 1/16W	1	
	LB6111	D0GBR00JA008	0 1/16W	1	
	LB6112	D0GBR00JA008	0 1/16W	1	
	LB6113	D0GBR00JA008	0 1/16W	1	
	LB6115	D0GBR00JA008	0 1/16W	1	
	LB6117	D0GBR00JA008	0 1/16W	1	
	LB6119	D0GBR00JA008	0 1/16W	1	
	LB6121	D0GBR00JA008	0 1/16W	1	
	LB6122	D0GBR00JA008	0 1/16W	1	
	LB6123	D0GBR00JA008	0 1/16W	1	
	LB6124	D0GBR00JA008	0 1/16W	1	
	LB6125	D0GBR00JA008	0 1/16W	1	
	LB6126	D0GBR00JA008	0 1/16W	1	
	LB6127	D0GBR00JA008	0 1/16W	1	
	LB6128	D0GBR00JA008	0 1/16W	1	
	LB6129	D0GBR00JA008	0 1/16W	1	
	LB6130	D0GBR00JA008	0 1/16W	1	
	LB7102	D0GDR00JA017	0 1/10W	1	
	LB56001	D0GBR00JA008	0 1/16W	1	
	LB56002	D0GBR00JA008	0 1/16W	1	
	LB56003	D0GBR00JA008	0 1/16W	1	
	LB56004	D0GBR00JA008	0 1/16W	1	
	LB56005	D0GBR00JA008	0 1/16W	1	
	LB56006	D0GBR00JA008	0 1/16W	1	
	LB56007	D0GBR00JA008	0 1/16W	1	
	LB58016	D0GBR00JA008	0 1/16W	1	
	LB58019	D0GDR00JA017	0 1/10W	1	
	W102	D0GBR00JA008	0 1/16W	1	
	W301	D0GBR00JA008	0 1/16W	1	
	W302	D0GBR00JA008	0 1/16W	1	
	W400	ERJ8GEY0R00V	0 1/4W	1	
			RESISTORS		
	LB6114	D0GB822JA008	8.2K 1/16W	1	
	LB6116	D0GB822JA008	8.2K 1/16W	1	
	LB6118	D0GB822JA008	8.2K 1/16W	1	
	LB6120	D0GB822JA008	8.2K 1/16W	1	
	LB51604	D0GB680JA008	680 1/16W	1	
	LB54000	D0GB470JA008	47 1/16W	1	
	LB54001	D0GB470JA008	47 1/16W	1	
	LB54002	D0GB470JA008	47 1/16W	1	
	LB54004	D0GB470JA008	47 1/16W	1	
	LB54005	D0GB470JA008	47 1/16W	1	
	LB54006	D0GB470JA008	47 1/16W	1	
	LB54007	D0GB470JA008	47 1/16W	1	
	LB54008	D0GB101JA023	100 1/10W	1	
	LB58207	D0GB101JA008	100 1/16W	1	
	LB58208	D0GB101JA008	100 1/16W	1	
	LB58301	D0GB101JA008	100 1/16W	1	
	LB58302	D0GB101JA008	100 1/16W	1	
	LB58303	D0GB101JA008	100 1/16W	1	
	LB58304	D0GB101JA008	100 1/16W	1	
	LB58305	D0GB101JA008	100 1/16W	1	
	LB58306	D0GB101JA008	100 1/16W	1	
	LB58307	D0GB101JA008	100 1/16W	1	
	LB58308	D0GB101JA008	100 1/16W	1	
	LB58309	D0GB101JA008	100 1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	LB58310	D0GB101JA008	100 1/16W	1	
	LB58311	D0GB101JA008	100 1/16W	1	
	LB58312	D0GB101JA008	100 1/16W	1	
	LB58313	D0GB101JA008	100 1/16W	1	
	LB58314	D0GB101JA008	100 1/16W	1	
	LB58315	D0GB101JA008	100 1/16W	1	
	R100	D0GB221JA007	220 1/10W	1	
	R101	D0GB101JA008	100 1/16W	1	
	R104	D0GB101JA008	100 1/16W	1	
	R105	D0GB101JA008	100 1/16W	1	
	R106	D0GB101JA008	100 1/16W	1	
	R107	D0GB101JA008	100 1/16W	1	
	R108	D0GB101JA008	100 1/16W	1	
	R109	D0GB101JA008	100 1/16W	1	
	R110	D0GB101JA008	100 1/16W	1	
	R111	D0GB101JA008	100 1/16W	1	
	R112	D0GB101JA008	100 1/16W	1	
	R113	D0GB101JA008	100 1/16W	1	
	R114	D0GB101JA008	100 1/16W	1	
	R115	D0GB101JA008	100 1/16W	1	
	R116	D0GB103JA008	10K 1/16W	1	
	R117	D0GBR00JA008	0 1/16W	1	
	R118	D0GB101JA008	100 1/16W	1	
	R119	D0GB101JA008	100 1/16W	1	
	R120	D0GB101JA008	100 1/16W	1	
	R121	D0GB101JA008	100 1/16W	1	
	R122	D0GB101JA008	100 1/16W	1	
	R123	D0GB101JA008	100 1/16W	1	
	R124	D0GB101JA008	100 1/16W	1	
	R125	D0GB101JA008	100 1/16W	1	
	R126	D0GB101JA008	100 1/16W	1	
	R127	D0GB101JA008	100 1/16W	1	
	R128	D0GB101JA008	100 1/16W	1	
	R129	D0GB101JA008	100 1/16W	1	
	R130	D0GB101JA008	100 1/16W	1	
	R131	D0GB101JA008	100 1/16W	1	
	R135	D0GB101JA008	100 1/16W	1	
	R137	D0GB101JA008	100 1/16W	1	
	R138	D0GB101JA008	100 1/16W	1	
	R139	D0GB101JA008	100 1/16W	1	
	R140	D0GB101JA008	100 1/16W	1	
	R141	D0GB101JA008	100 1/16W	1	
	R142	D0GB101JA008	100 1/16W	1	
	R143	D0GB101JA008	100 1/16W	1	
	R144	D0GB101JA008	100 1/16W	1	
	R145	D0GB101JA008	100 1/16W	1	
	R146	D0GB101JA008	100 1/16W	1	
	R147	D0GB101JA008	100 1/16W	1	
	R148	D0GB101JA008	100 1/16W	1	
	R149	D0GB101JA008	100 1/16W	1	
	R150	D0GB101JA008	100 1/16W	1	
	R151	D0GB101JA008	100 1/16W	1	
	R152	D0GB101JA008	100 1/16W	1	
	R153	D0GB101JA008	100 1/16W	1	
	R154	D0GB101JA008	100 1/16W	1	
	R155	D0GB101JA008	100 1/16W	1	
	R156	D0GB101JA008	100 1/16W	1	
	R157	D0GB101JA008	100 1/16W	1	
	R158	D0GB101JA008	100 1/16W	1	
	R159	D0GB101JA008	100 1/16W	1	
	R160	D0GB101JA008	100 1/16W	1	
	R161	D0GB101JA008	100 1/16W	1	
	R162	D0GB101JA008	100 1/16W	1	
	R163	D0GB101JA008	100 1/16W	1	
	R164	D0GB101JA008	100 1/16W	1	
	R165	D0GB101JA008	100 1/16W	1	
	R166	D0GB101JA008	100 1/16W	1	
	R167	D0GB101JA008	100 1/16W	1	
	R168	D0GB101JA008	100 1/16W	1	
	R169	D0GB101JA008	100 1/16W	1	
	R170	D0GB101JA008	100 1/16W	1	
	R171	D0GB101JA008	100 1/16W	1	
	R172	D0GB101JA008	100 1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R173	D0GB101JA008	100 1/16W	1	
	R174	D0GB101JA008	100 1/16W	1	
	R175	D0GB101JA008	100 1/16W	1	
	R176	D0GB101JA008	100 1/16W	1	
	R177	D0GB101JA008	100 1/16W	1	
	R178	D0GB101JA008	100 1/16W	1	
	R179	D0GB101JA008	100 1/16W	1	
	R180	D0GB101JA008	100 1/16W	1	
	R182	D0GB102JA008	1K 1/16W	1	
	R184	D0GBR00JA008	0 1/16W	1	
	R188	D0GB103JA008	10K 1/16W	1	
	R189	D0GBR00JA008	0 1/16W	1	
	R190	D0GB103JA008	10K 1/16W	1	
	R191	D0GB103JA008	10K 1/16W	1	
	R192	D0GB103JA008	10K 1/16W	1	
	R193	D0GB103JA008	10K 1/16W	1	
	R194	D0GB103JA008	10K 1/16W	1	
	R195	D0GB101JA008	100 1/16W	1	
	R218	D0GB223JA008	22K 1/16W	1	
	R219	D0GB104JA008	100K 1/16W	1	
	R221	D0GB103JA008	10K 1/16W	1	
	R222	D0GB103JA008	10K 1/16W	1	
	R223	D0GB153JA008	15K 1/16W	1	
	R224	D0GB153JA008	15K 1/16W	1	
	R227	D0GB224JA008	220K 1/16W	1	
	R228	D0GB224JA008	220K 1/16W	1	
	R229	D0GB103JA008	10K 1/16W	1	
	R230	D0GB103JA008	10K 1/16W	1	
	R238	D0GB101JA008	100 1/16W	1	
	R239	D0GB473JA008	47K 1/16W	1	
	R240	D0GB473JA008	47K 1/16W	1	
	R242	D0GBR00JA008	0 1/16W	1	
	R243	D0GB223JA008	22K 1/16W	1	
	R244	D0GB472JA008	4.7K 1/16W	1	
	R245	D0GB472JA008	4.7K 1/16W	1	
	R246	D0GB560JA008	56 1/16W	1	
	R247	D0GB560JA008	56 1/16W	1	
	R248	D0GB103JA008	10K 1/16W	1	
	R249	D0GB103JA008	10K 1/16W	1	
	R250	D0GB103JA008	10K 1/16W	1	
	R260	D0GB103JA008	10K 1/16W	1	
	R303	D0GB330JA008	33 1/16W	1	
	R310	D0GB470JA008	47 1/16W	1	
	R311	D0GB470JA008	47 1/16W	1	
	R312	D0GB470JA008	47 1/16W	1	
	R313	D0GB470JA008	47 1/16W	1	
	R338	D0GB472JA008	4.7K 1/16W	1	
	R339	D0GB221JA007	220 1/10W	1	
	R340	D0GB102JA008	1K 1/16W	1	
	R341	D0GBR00JA008	0 1/16W	1	
	R342	D0GB102JA008	1K 1/16W	1	
	R343	D0GB473JA008	47K 1/16W	1	
	R344	D0GB102JA008	1K 1/16W	1	
	R345	D0GB473JA008	47K 1/16W	1	
	R346	D0GB330JA008	33 1/16W	1	
	R347	D0GB330JA008	33 1/16W	1	
	R348	D0GB330JA008	33 1/16W	1	
	R349	D0GB330JA008	33 1/16W	1	
	R350	D0GB102JA008	1K 1/16W	1	
	R351	D0GB102JA008	1K 1/16W	1	
	R352	D0GB220JA008	22 1/16W	1	
	R354	D0GB330JA008	33 1/16W	1	
	R356	D0GB330JA008	33 1/16W	1	
	R358	D0GB330JA008	33 1/16W	1	
	R359	D0GB330JA008	33 1/16W	1	
	R360	D0GB101JA008	100 1/16W	1	
	R361	D0GB101JA008	100 1/16W	1	
	R362	D0GB330JA008	33 1/16W	1	
	R364	D0GB102JA008	1K 1/16W	1	
	R365	D0GB473JA008	47K 1/16W	1	
	R366	D0GB470JA008	47 1/16W	1	
	R367	D0GB470JA008	47 1/16W	1	
	R368	D0GB470JA008	47 1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R369	D0GB470JA008	47 1/16W	1	
	R370	D0GB102JA008	1K 1/16W	1	
	R371	D0GB473JA008	47K 1/16W	1	
	R372	D0GB330JA008	33 1/16W	1	
	R373	D0GB473JA008	47K 1/16W	1	
	R374	D0GB102JA008	1K 1/16W	1	
	R375	D0GB473JA008	47K 1/16W	1	
	R376	D0GB102JA008	1K 1/16W	1	
	R377	D0GB102JA008	1K 1/16W	1	
	R378	D0GB102JA008	1K 1/16W	1	
	R379	D0GB102JA008	1K 1/16W	1	
	R380	D0GB473JA008	47K 1/16W	1	
	R383	D0GB473JA008	47K 1/16W	1	
	R387	D0GB473JA008	47K 1/16W	1	
	R388	D0GB330JA008	33 1/16W	1	
	R389	D0GB473JA008	47K 1/16W	1	
	R390	D0GB473JA008	47K 1/16W	1	
	R391	D0GB330JA008	33 1/16W	1	
	R392	D0GB330JA008	33 1/16W	1	
	R393	D0GB331JA008	330 1/16W	1	
	R394	D0GB331JA008	330 1/16W	1	
	R401	D0GBR00JA008	0 1/16W	1	
	R402	D0GB562JA008	5.6K 1/16W	1	
	R403	D0GB103JA008	10K 1/16W	1	
	R420	D0GB103JA008	10K 1/16W	1	
	R421	D0GB101JA008	100 1/16W	1	
	R422	D0GB103JA008	10K 1/16W	1	
	R423	D0GB223JA008	22K 1/16W	1	
	R424	D0GB223JA008	22K 1/16W	1	
	R425	D0GB223JA008	22K 1/16W	1	
	R426	D0GB563JA008	56K 1/16W	1	
	R427	D0GB563JA008	56K 1/16W	1	
	R428	ERJ6GEYJ820V	82 1/8W	1	
	R429	ERJ6GEYJ820V	82 1/8W	1	
	R430	D0GD680JA017	68 1/10W	1	
	R431	D0GD680JA017	68 1/10W	1	
	R432	D0GB102JA008	1K 1/16W	1	
	R433	D0GB102JA008	1K 1/16W	1	
	R434	D0GB102JA008	1K 1/16W	1	
	R435	D0GB102JA008	1K 1/16W	1	
	R501	D0GBR00JA008	0 1/16W	1	
	R502	D0GBR00JA008	0 1/16W	1	
	R503	D0GBR00JA008	0 1/16W	1	
	R504	D0GBR00JA008	0 1/16W	1	
	R530	D0GB824JA008	820K 1/16W	1	
	R531	D0GB102JA008	1K 1/16W	1	
	R532	D0GB471JA008	470 1/16W	1	
	R533	D0GB824JA008	820K 1/16W	1	
	R534	D0GB682JA008	6.8K 1/16W	1	
	R535	D0GB392JA008	3.9K 1/16W	1	
	R536	D0GB221JA007	220 1/10W	1	
	R537	D0GB472JA008	4.7K 1/16W	1	
	R538	D0GB102JA008	1K 1/16W	1	
	R539	D0GB223JA008	22K 1/16W	1	
	R540	D0GB473JA008	47K 1/16W	1	
	R541	D0GB154JA008	150K 1/16W	1	
	R601	ERJ3GEYJ3R3V	3.3 1/10W	1	
	R828	D0GB101JA008	100 1/16W	1	
	R829	D0GB101JA008	100 1/16W	1	
	R830	D0GB101JA008	100 1/16W	1	
	R831	D0GB102JA008	1K 1/16W	1	
	R832	D0GB103JA008	10K 1/16W	1	
	R833	D0GB102JA008	1K 1/16W	1	
	R834	D0GB102JA008	1K 1/16W	1	
	R835	D0GB102JA008	1K 1/16W	1	
	R836	D0GB102JA008	1K 1/16W	1	
	R901	D0GBR00JA008	0 1/16W	1	
	R902	D0GBR00JA008	0 1/16W	1	
	R903	D0GBR00JA008	0 1/16W	1	
	R904	D0GBR00JA008	0 1/16W	1	
	R1001	D0GB101JA008	100 1/16W	1	
	R1002	D0GB101JA008	100 1/16W	1	
	R1003	D0GB104JA008	100K 1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R1004	D0GB104JA008	100K 1/16W	1	
	R1005	ERJ3GEYF753V	75K 1/10W	1	
	R1006	ERJ3GEYF753V	75K 1/10W	1	
	R1007	ERJ3GEYF513V	51K 1/10W	1	
	R1008	ERJ3GEYF513V	51K 1/10W	1	
	R1009	D0GB151JA008	150 1/16W	1	
	R1010	D0GB151JA008	150 1/16W	1	
	R1011	D0GBR00JA008	0 1/16W	1	
	R1012	D0GBR00JA008	0 1/16W	1	
	R1013	D0GB102JA008	1K 1/16W	1	
	R1101	ERJ3RED334V	330K 1/16W	1	
	R1102	D0GB274JA007	270K 1/16W	1	
	R1103	ERJ3RED224V	220K 1/16W	1	
	R1104	ERJ3GEYJ564V	560K 1/10W	1	
	R1105	D0GB104JA008	100K 1/16W	1	
	R1106	D0GB472JA008	4.7K 1/16W	1	
	R1107	D0GB473JA008	47K 1/16W	1	
	R1108	D0GB473JA008	47K 1/16W	1	
	R1109	D0GB472JA008	4.7K 1/16W	1	
	R1110	D0GB104JA008	100K 1/16W	1	
	R1111	D0GB750JA008	75 1/16W	1	
	R1112	D0GB101JA008	100 1/16W	1	
	R1113	D0GB101JA008	100 1/16W	1	
	R1114	D0HD153ZA002	15K 1/10W	1	
	R1115	D0GB103JA008	10K 1/16W	1	
	R1116	D0HD153ZA002	15K 1/10W	1	
	R1117	D0GB103JA008	10K 1/16W	1	
	R1118	D0GB103JA008	10K 1/16W	1	
	R1119	D0HD153ZA002	15K 1/10W	1	
	R1120	D0GB103JA008	10K 1/16W	1	
	R1121	D0HD153ZA002	15K 1/10W	1	
	R1122	D0GB331JA008	330 1/16W	1	
	R1123	D0GB331JA008	330 1/16W	1	
	R1466	D0GBR00JA008	0 1/16W	1	
	R1467	D0GBR00JA008	0 1/16W	1	
	R1469	D0GB330JA008	33 1/16W	1	
	R1470	D0GBR00JA008	0 1/16W	1	
	R1471	D0GBR00JA008	0 1/16W	1	
	R2001	D0GB822JA008	8.2K 1/16W	1	
	R2002	D0GB822JA008	8.2K 1/16W	1	
	R3001	D0GB105JA008	1M 1/16W	1	
	R3003	D0GB220JA008	22 1/16W	1	
	R3029	D0GB101JA008	100 1/16W	1	
	R3030	D0GB101JA008	100 1/16W	1	
	R3031	D0GB101JA008	100 1/16W	1	
	R3079	ERJ6GEYJ1R0V	1.0 1/8W	1	
	R4071	D0GB473JA008	47K 1/16W	1	
	R4072	D0GB473JA008	47K 1/16W	1	
	R4073	D0GB473JA008	47K 1/16W	1	
	R4074	D0GB473JA008	47K 1/16W	1	
	R4075	D0GB223JA008	22K 1/16W	1	
	R4076	D0GB223JA008	22K 1/16W	1	
	R4090	D0GB101JA008	100 1/16W	1	
	R4091	D0GB101JA008	100 1/16W	1	
	R4092	D0GB102JA008	1K 1/16W	1	
	R4093	D0GB102JA008	1K 1/16W	1	
	R4094	D0GB102JA008	1K 1/16W	1	
	R4095	D0GB102JA008	1K 1/16W	1	
	R4096	D0GB222JA008	2.2K 1/16W	1	
	R4097	D0GB102JA008	1K 1/16W	1	
	R4098	D0GB102JA008	1K 1/16W	1	
	R4099	D0GB102JA008	1K 1/16W	1	
	R4151	D0GB473JA008	47K 1/16W	1	
	R4152	D0GB473JA008	47K 1/16W	1	
	R4155	D0GB473JA008	47K 1/16W	1	
	R4156	D0GB473JA008	47K 1/16W	1	
	R4215	D0GB474JA008	470K 1/16W	1	
	R4216	D0GB472JA008	4.7K 1/16W	1	
	R4222	D0GB472JA008	4.7K 1/16W	1	
	R4223	D0GB474JA008	470K 1/16W	1	
	R4331	D0GB102JA008	1K 1/16W	1	
	R4332	D0GB102JA008	1K 1/16W	1	
	R4333	D0GB104JA008	100K 1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R4334	D0GB104JA008	100K 1/16W	1	
	R4335	D0GB103JA008	10K 1/16W	1	
	R4336	D0GB103JA008	10K 1/16W	1	
	R4337	D0GB103JA008	10K 1/16W	1	
	R4338	D0GB103JA008	10K 1/16W	1	
	R4339	D0GB473JA008	47K 1/16W	1	
	R4340	D0GB473JA008	47K 1/16W	1	
	R4341	D0GB222JA008	2.2K 1/16W	1	
	R4342	D0GB222JA008	2.2K 1/16W	1	
	R4343	D0GB102JA008	1K 1/16W	1	
	R4344	D0GB102JA008	1K 1/16W	1	
	R4351	D0GB102JA008	1K 1/16W	1	
	R4352	D0GB102JA008	1K 1/16W	1	
	R4353	D0GB104JA008	100K 1/16W	1	
	R4354	D0GB104JA008	100K 1/16W	1	
	R4355	D0GB103JA008	10K 1/16W	1	
	R4356	D0GB103JA008	10K 1/16W	1	
	R4357	D0GB103JA008	10K 1/16W	1	
	R4358	D0GB103JA008	10K 1/16W	1	
	R4359	D0GB473JA008	47K 1/16W	1	
	R4360	D0GB473JA008	47K 1/16W	1	
	R4361	D0GB222JA008	2.2K 1/16W	1	
	R4362	D0GB222JA008	2.2K 1/16W	1	
	R4363	D0GB102JA008	1K 1/16W	1	
	R4364	D0GB102JA008	1K 1/16W	1	
	R5001	D0GB822JA008	8.2K 1/16W	1	
	R5002	D0GB474JA008	470K 1/16W	1	
	R5005	D0GB101JA008	100 1/16W	1	
	R5006	D0GBR00JA008	0 1/16W	1	
	R5007	D0GB822JA008	8.2K 1/16W	1	
	R5008	D0GB392JA008	3.9K 1/16W	1	
	R5009	D0GB122JA008	1.2K 1/16W	1	
	R5012	D0GBR00JA008	0 1/16W	1	
	R5014	D0GB104JA008	100K 1/16W	1	
	R5017	D0GB472JA008	4.7K 1/16W	1	
	R5018	D0GBR00JA008	0 1/16W	1	
	R5022	D0GBR00JA008	0 1/16W	1	
	R5024	D0GBR00JA008	0 1/16W	1	
	R5027	D0GB563JA008	56K 1/16W	1	
	R5028	D0GBR00JA008	0 1/16W	1	
	R5029	D0GB103JA008	10K 1/16W	1	
	R5030	D0GB103JA008	10K 1/16W	1	
	R5031	D0GB103JA008	10K 1/16W	1	
	R5032	D0GB563JA008	56K 1/16W	1	
	R5033	D0GB103JA008	10K 1/16W	1	
	R5035	ERJ3GEYJ185V	1.8M 1/10W	1	
	R5036	D0GB220JA008	22 1/16W	1	
	R5037	D0GD102JA017	1K 1/10W	1	
	R5045	D0GB223JA008	22K 1/16W	1	
	R5047	D0GB123JA008	12K 1/16W	1	
	R5048	D0GB822JA008	8.2K 1/16W	1	
	R5049	D0GB223JA008	22K 1/16W	1	
	R5052	D0GB393JA008	39K 1/16W	1	
	R5055	D0GB272JA008	2.7K 1/16W	1	
	R5056	D0GB820JA008	82 1/16W	1	
	R5057	D0GB222JA008	2.2K 1/16W	1	
	R5058	D0GB472JA008	4.7K 1/16W	1	
	R5063	D0GB102JA008	1K 1/16W	1	
	R5064	D0GBR00JA008	0 1/16W	1	
	R5065	D0GB473JA008	47K 1/16W	1	
	R5066	D0GB4R7JA008	4.7 1/16W	1	
	R5067	D0GB822JA008	8.2K 1/16W	1	
	R5068	D0GB101JA008	100 1/16W	1	
	R5069	D0AF680JA039	68 1/2W	1	
	R5070	D0GBR00JA008	0 1/16W	1	
	R5102	D0GB332JA008	3.3K 1/16W	1	
	R5104	D0GB682JA008	6.8K 1/16W	1	
	R5105	D0GB823JA008	82K 1/16W	1	
	R5106	D0GB151JA008	150 1/16W	1	
	R5107	D0GB102JA008	1K 1/16W	1	
	R5108	D0GB103JA008	10K 1/16W	1	
	R5109	D0GB822JA008	8.2K 1/16W	1	
	R5110	D0GB103JA008	10K 1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R5111	D0GB4R7JA008	4.7 1/16W	1	
	R5112	D0GB333JA008	33K 1/16W	1	
	R5113	D0GB220JA008	22 1/16W	1	
	R5114	D0GB220JA008	22 1/16W	1	
	R5115	D0GZ220JA012	22 1W	1	
	R5116	D0GD222JA017	2.2K 1/10W	1	
	R5117	D0GB682JA008	6.8K 1/16W	1	
	R5118	D0GB104JA008	100K 1/16W	1	
	R5119	D0GB104JA008	100K 1/16W	1	
	R5120	D0GB1R0JA008	1.0 1/16W	1	
	R5121	D0GB563JA008	56K 1/16W	1	
	R5202	D0GB332JA008	3.3K 1/16W	1	
	R5204	D0GB682JA008	6.8K 1/16W	1	
	R5205	D0GB823JA008	82K 1/16W	1	
	R5206	D0GB151JA008	150 1/16W	1	
	R5207	D0GB102JA008	1K 1/16W	1	
	R5208	D0GB103JA008	10K 1/16W	1	
	R5209	D0GB822JA008	8.2K 1/16W	1	
	R5210	D0GB103JA008	10K 1/16W	1	
	R5211	D0GB4R7JA008	4.7 1/16W	1	
	R5212	D0GB333JA008	33K 1/16W	1	
	R5213	D0GB220JA008	22 1/16W	1	
	R5214	D0GB220JA008	22 1/16W	1	
	R5215	D0GZ220JA012	22 1W	1	
	R5216	D0GD222JA017	2.2K 1/10W	1	
	R5217	D0GB682JA008	6.8K 1/16W	1	
	R5218	D0GB104JA008	100K 1/16W	1	
	R5219	D0GB104JA008	100K 1/16W	1	
	R5220	D0GB1R0JA008	1.0 1/16W	1	
	R5221	D0GB563JA008	56K 1/16W	1	
	R5302	D0GB332JA008	3.3K 1/16W	1	
	R5304	D0GB682JA008	6.8K 1/16W	1	
	R5305	D0GB224JA008	220K 1/16W	1	EB/EG
	R5305	D0GB154JA008	150K 1/16W	1	EF
	R5306	D0GB151JA008	150 1/16W	1	
	R5307	D0GB102JA008	1K 1/16W	1	
	R5308	D0GB103JA008	10K 1/16W	1	
	R5309	D0GB822JA008	8.2K 1/16W	1	
	R5310	D0GB563JA008	56K 1/16W	1	
	R5311	D0GB4R7JA008	4.7 1/16W	1	
	R5312	D0GB333JA008	33K 1/16W	1	
	R5313	D0GB220JA008	22 1/16W	1	
	R5314	D0GB220JA008	22 1/16W	1	
	R5315	D0GZ220JA012	22 1W	1	
	R5316	D0GD222JA017	2.2K 1/10W	1	
	R5317	D0GB682JA008	6.8K 1/16W	1	
	R5318	D0GB104JA008	100K 1/16W	1	
	R5319	D0GB104JA008	100K 1/16W	1	
	R5320	D0GB1R0JA008	1.0 1/16W	1	
	R5321	D0GB563JA008	56K 1/16W	1	
	R5401	ERJ2GE0R00X	0 1/16W	1	
	R5407	D0GB102JA008	1K 1/16W	1	
	R5408	D0GBR00JA008	0 1/16W	1	
	R5419	D0GB104JA008	100K 1/16W	1	
	R5701	ERDS1TJ395B	3.9M 1/2W	1	
	R5702	ERJ1TYJ104U	100K 1W	1	
	R5703	ERJ1TYJ104U	100K 1W	1	
	R5704	ERJ8GEYJ124V	120K 1/4W	1	
	R5705	ERJ8GEYJ124V	120K 1/4W	1	
	R5706	ERJ8GEYJ274V	270K 1/4W	1	
	R5707	ERJ8GEYJ274V	270K 1/4W	1	
	R5720	D0GD220JA017	22 1/10W	1	
	R5721	D0GD103JA017	10K 1/10W	1	
	R5722	D0GB222JA008	2.2K 1/16W	1	
	R5723	ERJ1TYJ333U	33K 1W	1	
	R5724	ERJ1TYJ333U	33K 1W	1	
	R5725	D0GB222JA008	2.2K 1/16W	1	
	R5726	ERX2SZJR10P	0.1 2W	1	
	R5728	D0GB683JA008	68K 1/16W	1	
	R5729	D0GB103JA008	10K 1/16W	1	
	R5730	D0GB102JA008	1K 1/16W	1	
	R5732	D0GB101JA008	100 1/16W	1	
	R5733	D0GB473JA008	47K 1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R5786	ERJ1TYJ204U	200K 1W	1	
	R5795	ERJ6GEYJ474V	470K 1/8W	1	
	R5797	D0GB153JA008	15K 1/16W	1	
	R5798	D0GB220JA008	22 1/16W	1	
	R5800	D0GB333JA008	33K 1/16W	1	
	R5801	ERJ6GEYJ273V	27K 1/8W	1	
	R5802	ERJ3RBD153V	15K 1/16W	1	
	R5803	D0GD122JA017	1.2K 1/10W	1	
	R5804	ERJ6RED184V	180K 1/10W	1	
	R5805	ERJ3RBD682V	6.8K 1/16W	1	
	R5806	D0GB153JA008	15K 1/16W	1	
	R5807	ERJ6GEYJ331V	330 1/8W	1	
	R5808	D0GD222JA017	2.2K 1/10W	1	
	R5809	ERJ6GEYJ331V	330 1/8W	1	
	R5814	D0GB822JA008	8.2K 1/16W	1	
	R5817	ERJ3RBD222V	2.2K 1/16W	1	
	R5818	D0GB101JA008	100 1/16W	1	
	R5819	D0GB220JA008	22 1/16W	1	
	R5820	ERJ6GEYJ272V	2.7K 1/8W	1	
	R5821	D0GB104JA008	100K 1/16W	1	
	R5832	ERJ1TYJ332U	3.3K 1W	1	
	R5834	ERJ1TYJ222U	2.2K 1W	1	
	R5861	D0GB104JA008	100K 1/16W	1	
	R5862	D0GD222JA017	2.2K 1/10W	1	
	R5863	D0GD562JA017	5.6K 1/10W	1	
	R5864	D0GB821JA008	820 1/16W	1	
	R5865	D0GB223JA008	22K 1/16W	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	
	R5896	D0GBR00JA008	0 1/16W	1	
	R5897	D0GB101JA008	100 1/16W	1	
	R5898	ERJ6GEYJ824V	820K 1/8W	1	
	R5899	ERJ6GEYJ473V	47K 1/8W	1	
	R6001	ERJ8GEYJ2R7V	2.7 1/4W	1	
	R6002	ERJ8GEYJ2R7V	2.7 1/4W	1	
	R6003	D0GBR00JA008	0 1/16W	1	
	R6005	D0GB104JA008	100K 1/16W	1	
	R6007	D0GB680JA008	68 1/16W	1	
	R6008	D0GB680JA008	68 1/16W	1	
	R6009	D0GB102JA008	1K 1/16W	1	
	R6010	D0GB563JA008	56K 1/16W	1	
	R6111	D0GB123JA008	12K 1/16W	1	
	R6112	D0GB123JA008	12K 1/16W	1	
	R6114	D0GB332JA008	3.3K 1/16W	1	
	R6116	D0GB332JA008	3.3K 1/16W	1	
	R6118	D0GB332JA008	3.3K 1/16W	1	
	R6120	D0GB332JA008	3.3K 1/16W	1	
	R6210	D0GBR00JA008	0 1/16W	1	
	R6213	D0GB101JA008	100 1/16W	1	
	R6451	D0GB103JA008	10K 1/16W	1	
	R6452	D0GB103JA008	10K 1/16W	1	
	R6453	D0GB220JA008	22 1/16W	1	
	R6454	D0GD102JA017	1K 1/10W	1	
	R6455	D0GBR00JA008	0 1/16W	1	
	R6456	D0GBR00JA008	0 1/16W	1	
	R6457	D0GBR00JA008	0 1/16W	1	
	R6501	D0GB122JA008	1.2K 1/16W	1	
	R6502	D0GB152JA008	1.5K 1/16W	1	
	R6503	D0GB222JA008	2.2K 1/16W	1	
	R6504	D0GB332JA008	3.3K 1/16W	1	
	R6505	D0GB472JA008	4.7K 1/16W	1	
	R6506	D0GB682JA008	6.8K 1/16W	1	
	R6511	D0GB122JA008	1.2K 1/16W	1	
	R6512	D0GB152JA008	1.5K 1/16W	1	
	R6513	D0GB222JA008	2.2K 1/16W	1	
	R6514	D0GB332JA008	3.3K 1/16W	1	
	R6515	D0GB472JA008	4.7K 1/16W	1	
	R6523	ERJ8GEYJ821V	820 1/4W	1	
	R6524	D0GB102JA008	1K 1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R6601	D0GB101JA008	100 1/16W	1	
	R6602	D0GB101JA008	100 1/16W	1	
	R6603	D0GB101JA008	100 1/16W	1	
	R6604	D0GB101JA008	100 1/16W	1	
	R6605	D0GB101JA008	100 1/16W	1	
	R6606	D0GB101JA008	100 1/16W	1	
	R6607	D0GB101JA008	100 1/16W	1	
	R6801	D0GB101JA008	100 1/16W	1	
	R6802	D0GB470JA008	47 1/16W	1	
	R6901	D0GBR00JA008	0 1/16W	1	
	R6902	D0GBR00JA008	0 1/16W	1	
	R6905	D0GBR00JA008	0 1/16W	1	
	R7000	D0GB1R5JA040	1.5 1/16W	1	
	R7002	D0GB1R5JA040	1.5 1/16W	1	
	R7003	D0GB102JA008	1K 1/16W	1	
	R7004	D0GB272JA008	2.7K 1/16W	1	
	R7005	D0GB562JA008	5.6K 1/16W	1	
	R7006	D0GB470JA008	47 1/16W	1	
	R7007	D0GD392JA017	3.9K 1/10W	1	
	R7008	ERJ3RBD1002V	10K 1/16W	1	
	R7009	D0GB272JA008	2.7K 1/16W	1	
	R7010	D0GB471JA008	470 1/16W	1	
	R7011	D0GD471JA017	470 1/10W	1	
	R7012	D0GB272JA008	2.7K 1/16W	1	
	R7013	D0GB473JA008	47K 1/16W	1	
	R7014	D0GB823JA008	82K 1/16W	1	
	R7015	D0GB823JA008	82K 1/16W	1	
	R7016	D0GB473JA008	47K 1/16W	1	
	R7017	D0GBR00JA008	0 1/16W	1	
	R7018	D0GB332JA008	3.3K 1/16W	1	
	R7019	D1BDR012A116	0.012 1/3W	1	
	R7020	D0GB332JA008	3.3K 1/16W	1	
	R7021	ERJ3RBD3902V	39K 1/16W	1	
	R7022	D1BDR015A116	0.015 1/3W	1	
	R7023	D0GB392JA008	3.9K 1/16W	1	
	R7024	ERJ3RBD5601V	5.6K 1/16W	1	
	R7025	ERJ3RBD5602V	56K 1/16W	1	
	R7026	D0GB332JA008	3.3K 1/16W	1	
	R7027	D0GB103JA008	10K 1/16W	1	
	R7028	D0GB393JA008	39K 1/16W	1	
	R7029	ERJ3RBD3301V	3.3K 1/16W	1	
	R7030	ERJ3RBD2701V	2.7K 1/16W	1	
	R7031	D0GB393JA008	39K 1/16W	1	
	R7032	D0GB273JA008	27K 1/16W	1	
	R7033	D0GB393JA008	39K 1/16W	1	
	R7034	D0GB101JA008	100 1/16W	1	
	R7050	D0GB332JA008	3.3K 1/16W	1	
	R7051	D0GB473JA008	47K 1/16W	1	
	R7052	D0GB183JA008	18K 1/16W	1	
	R7053	D0GB561JA008	560 1/16W	1	
	R7054	D0GB104JA008	100K 1/16W	1	
	R7101	D0GB103JA008	10K 1/16W	1	
	R7102	D0GB680JA008	68 1/16W	1	
	R7103	D0GB102JA008	1K 1/16W	1	
	R7104	ERJ3RBD472V	4.7K 1/16W	1	
	R7105	ERJ3RBD331V	330 1/16W	1	
	R7106	ERJ3RBD103V	10K 1/16W	1	
	R7107	D0GB561JA008	560 1/16W	1	
	R7121	D0GB102JA008	1K 1/16W	1	
	R51001	D0GA103JA023	10K 1/16W	1	
	R51002	ERJ2GEJ181X	180 1/16W	1	
	R51003	D0GA105JA023	1M 1/16W	1	
	R51004	D0GA103JA023	10K 1/16W	1	
	R51005	ERJ2GEJ122X	1.2K 1/16W	1	
	R51007	ERJ2GE0R00X	0 1/16W	1	
	R51011	ERJ2GEJ122X	1.2K 1/16W	1	
	R51012	ERJ2GEJ391X	390 1/16W	1	
	R51019	D0GBR00JA008	0 1/16W	1	
	R51020	D0GA103JA023	10K 1/16W	1	
	R51021	ERJ2RKF6201X	6.2K 1/16W	1	
	R51050	D0GA103JA023	10K 1/16W	1	
	R51051	D0GA105JA023	1M 1/16W	1	
	R51052	D0GA105JA023	1M 1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R51304	D0GA222JA023	2.2K 1/16W	1	
	R51306	D0GA560JA023	56 1/16W	1	
	R51307	D0GA333JA023	33K 1/16W	1	
	R51310	D0GA222JA023	2.2K 1/16W	1	
	R51312	D0GA560JA023	56 1/16W	1	
	R51313	D0GA560JA023	56 1/16W	1	
	R51314	D0GA560JA023	56 1/16W	1	
	R51319	D0GA560JA023	56 1/16W	1	
	R51320	D0GA560JA023	56 1/16W	1	
	R51321	D0GA560JA023	56 1/16W	1	
	R51322	D0GA560JA023	56 1/16W	1	
	R51334	D0GA560JA023	56 1/16W	1	
	R51375	D0GA333JA023	33K 1/16W	1	
	R51376	D0GA472JA023	4.7K 1/16W	1	
	R51377	D0GA472JA023	4.7K 1/16W	1	
	R51378	D0GA472JA023	4.7K 1/16W	1	
	R51379	D0GA472JA023	4.7K 1/16W	1	
	R51383	D0GA222JA023	2.2K 1/16W	1	
	R51384	D0GA472JA023	4.7K 1/16W	1	
	R51385	D0GA472JA023	4.7K 1/16W	1	
	R51386	D0GA472JA023	4.7K 1/16W	1	
	R51387	D0GA330JA023	33 1/16W	1	
	R51394	D0GA330JA023	33 1/16W	1	
	R51396	D0GA330JA023	33 1/16W	1	
	R51397	D0GA330JA023	33 1/16W	1	
	R51433	D0GA820JA023	82 1/16W	1	
	R51434	D0GA472JA023	4.7K 1/16W	1	
	R51435	D0GA820JA023	82 1/16W	1	
	R51440	D0GA333JA023	33K 1/16W	1	
	R51441	ERJ2GEJ562X	5.6K 1/16W	1	
	R51443	D0GA103JA023	10K 1/16W	1	
	R51461	D0GA333JA023	33K 1/16W	1	
	R51462	D0GA333JA023	33K 1/16W	1	
	R51463	D0GA333JA023	33K 1/16W	1	
	R51481	D0GA103JA023	10K 1/16W	1	
	R51482	D0GA103JA023	10K 1/16W	1	
	R51483	D0GA103JA023	10K 1/16W	1	
	R51484	ERJ2GE0R00X	0 1/16W	1	
	R51486	D0GA103JA023	10K 1/16W	1	
	R51490	D0GA222JA023	2.2K 1/16W	1	
	R51492	D0GA103JA023	10K 1/16W	1	
	R51494	ERJ2GE0R00X	0 1/16W	1	
	R51601	D0GA560JA023	56 1/16W	1	
	R51602	D0GA560JA023	56 1/16W	1	
	R51603	D0GA560JA023	56 1/16W	1	
	R51604	D0GA560JA023	56 1/16W	1	
	R51605	D0GA560JA023	56 1/16W	1	
	R51606	D0GA560JA023	56 1/16W	1	
	R51608	D0GA333JA023	33K 1/16W	1	
	R51609	D0GA333JA023	33K 1/16W	1	
	R51610	D0GA333JA023	33K 1/16W	1	
	R51611	D0GA103JA023	10K 1/16W	1	
	R51612	D0GA103JA023	10K 1/16W	1	
	R51613	D0GA103JA023	10K 1/16W	1	
	R51615	ERJ2GE0R00X	0 1/16W	1	
	R51616	D0GA103JA023	10K 1/16W	1	
	R51617	D0GA103JA023	10K 1/16W	1	
	R51624	D0GA103JA023	10K 1/16W	1	
	R51632	D0GA472JA023	4.7K 1/16W	1	
	R51633	D0GA472JA023	4.7K 1/16W	1	
	R51634	D0GA470JA023	47 1/16W	1	
	R51635	D0GA470JA023	47 1/16W	1	
	R51638	D0GA220JA023	22 1/16W	1	
	R51639	J0JCC0000316	INDUCTOR	1	
	R51654	D0GA101JA023	100 1/16W	1	
	R51658	D0GA820JA023	82 1/16W	1	
	R51659	D0GA820JA023	82 1/16W	1	
	R51660	D0GA820JA023	82 1/16W	1	
	R51661	D0GA820JA023	82 1/16W	1	
	R51662	ERJ2GE0R00X	0 1/16W	1	
	R51663	D0GA820JA023	82 1/16W	1	
	R51664	D0GA2R2JA023	2.2 1/16W	1	
	R51665	D0GA2R2JA023	2.2 1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R51666	D0GA2R2JA023	2.2 1/16W	1	
	R51667	D0GA2R2JA023	2.2 1/16W	1	
	R51668	D0GA2R2JA023	2.2 1/16W	1	
	R51669	D0GA103JA023	10K 1/16W	1	
	R51671	D0GA103JA023	10K 1/16W	1	
	R51672	ERJ2GE0R00X	0 1/16W	1	
	R51673	ERJ2GE0R00X	0 1/16W	1	
	R51674	ERJ2GE0R00X	0 1/16W	1	
	R51675	ERJ2GE0R00X	0 1/16W	1	
	R51688	ERJ2RHD332X	3.3K 1/16W	1	
	R51689	ERJ2RHD333X	33K 1/16W	1	
	R51690	ERJ2RHD103X	10K 1/16W	1	
	R51691	D0GA560JA023	56 1/16W	1	
	R51692	D0GA103JA023	10K 1/16W	1	
	R51693	D0GA560JA023	56 1/16W	1	
	R51698	D0GA473JA023	47K 1/16W	1	
	R51701	D0GA473JA023	47K 1/16W	1	
	R52001	ERJ2GE0R00X	0 1/16W	1	
	R52002	ERJ2GE0R00X	0 1/16W	1	
	R52014	D0GA820JA023	82 1/16W	1	
	R52016	ERJ2GE0R00X	0 1/16W	1	
	R52017	ERJ2GE0R00X	0 1/16W	1	
	R52018	D0GA101JA023	100 1/16W	1	
	R52019	D0GA101JA023	100 1/16W	1	
	R52028	D0GA820JA023	82 1/16W	1	
	R52029	D0GA820JA023	82 1/16W	1	
	R52031	D0GA103JA023	10K 1/16W	1	
	R52032	D0GA103JA023	10K 1/16W	1	
	R52033	ERJ2RKD750X	75 1/16W	1	
	R52034	ERJ2RHD301X	300 1/16W	1	
	R52035	ERJ2RKD750X	75 1/16W	1	
	R52036	ERJ2RKD750X	75 1/16W	1	
	R52037	ERJ2GEJ241X	240 1/16W	1	
	R52038	D0HA271ZA001	270 1/16W	1	
	R52039	D0HA271ZA001	270 1/16W	1	
	R52040	ERJ2GEJ241X	240 1/16W	1	
	R52041	D0HA271ZA001	270 1/16W	1	
	R52042	D0HA271ZA001	270 1/16W	1	
	R52201	ERJ2GE0R00X	0 1/16W	1	
	R52202	ERJ2GE0R00X	0 1/16W	1	
	R52214	D0GA820JA023	82 1/16W	1	
	R52216	ERJ2GE0R00X	0 1/16W	1	
	R52217	ERJ2GE0R00X	0 1/16W	1	
	R52218	D0GA101JA023	100 1/16W	1	
	R52219	D0GA101JA023	100 1/16W	1	
	R52228	D0GA820JA023	82 1/16W	1	
	R52229	D0GA820JA023	82 1/16W	1	
	R52231	D0GA103JA023	10K 1/16W	1	
	R52232	D0GA103JA023	10K 1/16W	1	
	R52233	ERJ2GEJ241X	240 1/16W	1	
	R52234	D0HA271ZA001	270 1/16W	1	
	R52235	D0HA271ZA001	270 1/16W	1	
	R52236	ERJ2GEJ241X	240 1/16W	1	
	R52237	D0HA271ZA001	270 1/16W	1	
	R52238	D0HA271ZA001	270 1/16W	1	
	R53006	ERJ2GE0R00X	0 1/16W	1	
	R53012	ERJ3GEYF750V	75 1/10W	1	
	R53017	ERJ2GE0R00X	0 1/16W	1	
	R53019	D0GA101JA023	100 1/16W	1	
	R54003	D0HD103ZA002	10K 1/10W	1	
	R54004	D0HD153ZA002	15K 1/10W	1	
	R54016	D0HD153ZA002	15K 1/10W	1	
	R54018	D0HD103ZA002	10K 1/10W	1	
	R54023	D0HD103ZA002	10K 1/10W	1	
	R54024	D0HD103ZA002	10K 1/10W	1	
	R54026	D0HD103ZA002	10K 1/10W	1	
	R54028	D0GA273JA023	27K 1/16W	1	
	R54029	D0HD103ZA002	10K 1/10W	1	
	R54035	D0HB103ZA002	10K 1/16W	1	
	R54036	D0HB103ZA002	10K 1/16W	1	
	R54038	D0HB103ZA002	10K 1/16W	1	
	R54039	D0HB103ZA002	10K 1/16W	1	
	R54041	D0GA101JA023	100 1/10W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R54041	D0GB470JA008	47 1/16W	1	
	R54042	D0GA470JA023	47 1/16W	1	
	R54042	D0GB470JA008	47 1/16W	1	
	R54043	D0GA470JA023	47 1/16W	1	
	R54043	D0GB470JA008	47 1/16W	1	
	R54044	D0GA470JA023	47 1/16W	1	
	R54044	D0GB470JA008	47 1/16W	1	
	R54046	D0GA470JA023	47 1/16W	1	
	R54046	D0GB470JA008	47 1/16W	1	
	R54047	D0GA470JA023	47 1/16W	1	
	R54047	D0GB470JA008	47 1/16W	1	
	R54048	D0GA470JA023	47 1/16W	1	
	R54048	D0GB470JA008	47 1/16W	1	
	R54049	D0HB103ZA002	10K 1/16W	1	
	R54050	D0GBR00JA008	0 1/16W	1	
	R54051	D0HB103ZA002	10K 1/16W	1	
	R54055	D0GA103JA023	10K 1/16W	1	
	R54057	D0GA103JA023	10K 1/16W	1	
	R54059	D0GA103JA023	10K 1/16W	1	
	R54060	D0GA103JA023	10K 1/16W	1	
	R54062	J0JCC0000396	INDUCTOR	1	
	R54063	D0GA101JA023	100 1/16W	1	
	R54064	D0GA101JA023	100 1/16W	1	
	R54065	D0GA101JA023	100 1/16W	1	
	R54066	D0GA101JA023	100 1/16W	1	
	R54067	D0GA101JA023	100 1/16W	1	
	R54068	D0GA101JA023	100 1/16W	1	
	R54069	D0GA101JA023	100 1/16W	1	
	R54070	D0HB103ZA002	10K 1/16W	1	
	R54071	D0GA101JA023	100 1/16W	1	
	R54074	D0GA333JA023	33K 1/16W	1	
	R54075	D0GA333JA023	33K 1/16W	1	
	R54078	D0HB103ZA002	10K 1/16W	1	
	R54082	D0GA103JA023	10K 1/16W	1	
	R54083	ERJ2GE0R00X	0 1/16W	1	
	R54095	D0GA393JA023	39K 1/16W	1	
	R54096	D0GA470JA023	47 1/16W	1	
	R54900	D0GA220JA023	22 1/16W	1	
	R54901	D0GA222JA023	2.2K 1/16W	1	
	R54902	D0GA222JA023	2.2K 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	D0GA220JA023	22 1/16W	1	
	R54909	D0GA330JA023	33 1/16W	1	
	R54910	D0GA330JA023	33 1/16W	1	
	R54911	ERJ2GEJ562X	5.6K 1/16W	1	
	R54912	D0GA103JA023	10K 1/16W	1	
	R54914	D0GA103JA023	10K 1/16W	1	
	R54916	D0GA103JA023	10K 1/16W	1	
	R54918	D0GA103JA023	10K 1/16W	1	
	R54919	ERJ2GEJ562X	5.6K 1/16W	1	
	R54950	ERJ2GE0R00X	0 1/16W	1	
	R54951	ERJ2GE0R00X	0 1/16W	1	
	R55003	D0GA221JA023	220 1/16W	1	
	R55007	D0GA471JA023	470 1/16W	1	
	R55012	D0GA471JA023	470 1/16W	1	
	R55014	D0GA471JA023	470 1/16W	1	
	R55016	ERJ3RBD333V	33K 1/16W	1	
	R55017	ERJ3RBD333V	33K 1/16W	1	
	R55018	D0GA101JA023	100 1/16W	1	
	R55019	D0GA393JA023	39K 1/16W	1	
	R55020	ERJ3RBD432V	4.3K 1/16W	1	
	R55021	ERJ3RBD182V	1.8K 1/16W	1	
	R55022	ERJ3RBD823V	82K 1/16W	1	
	R55023	ERJ3RBD223V	22K 1/16W	1	
	R55024	D0GA472JA023	4.7K 1/16W	1	
	R55025	D0GA101JA023	100 1/16W	1	
	R55026	D0GA101JA023	100 1/16W	1	
	R55027	D0GA101JA023	100 1/16W	1	
	R55028	D0GA101JA023	100 1/16W	1	
	R55029	ERJ2GE0R00X	0 1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R55030	ERJ2GE0R00X	0 1/16W	1	
	R55031	ERJ2GE0R00X	0 1/16W	1	
	R55032	ERJ2GE0R00X	0 1/16W	1	
	R55033	D0GA102JA023	1K 1/16W	1	
	R55036	D0GA332JA023	3.3K 1/16W	1	
	R55042	ERJ2GE0R00X	0 1/16W	1	
	R55043	ERJ2GE0R00X	0 1/16W	1	
	R55044	D0GA103JA023	10K 1/16W	1	
	R55074	D0GA104JA023	100K 1/16W	1	
	R55076	D0GA473JA023	47K 1/16W	1	
	R55077	D0GA103JA023	10K 1/16W	1	
	R55078	D0GA473JA023	47K 1/16W	1	
	R55082	D0GA103JA023	10K 1/16W	1	
	R55083	D0GA103JA023	10K 1/16W	1	
	R55087	D0GA101JA023	100 1/16W	1	
	R55088	D0GA101JA023	100 1/16W	1	
	R55089	D0GA103JA023	10K 1/16W	1	
	R55090	D0GA101JA023	100 1/16W	1	
	R55100	D0GA330JA023	33 1/16W	1	
	R55104	ERJ2RHD103X	10K 1/16W	1	
	R55106	ERJ2GE0R00X	0 1/16W	1	
	R55107	D0GDR00JA017	0 1/10W	1	
	R55114	D0GA472JA023	4.7K 1/16W	1	
	R55115	ERJ2GE0R00X	0 1/16W	1	
	R55120	ERJ2GE0R00X	0 1/16W	1	
	R55121	ERJ2GE0R00X	0 1/16W	1	
	R55129	D0GA103JA023	10K 1/16W	1	
	R55130	ERJ2GE0R00X	0 1/16W	1	
	R55131	ERJ2GE0R00X	0 1/16W	1	
	R55141	ERJ3GEYF333V	33K 1/10W	1	
	R55142	ERJ2GEJ223X	22K 1/16W	1	
	R55143	ERJ2GEJ223X	22K 1/16W	1	
	R55144	D0GA472JA023	4.7K 1/16W	1	
	R55145	D0GA103JA023	10K 1/16W	1	
	R55146	D0GA103JA023	10K 1/16W	1	
	R55147	D0GA222JA023	2.2K 1/16W	1	
	R55148	D0GA222JA023	2.2K 1/16W	1	
	R55149	D0GA222JA023	2.2K 1/16W	1	
	R55150	ERJ2RHD332X	3.3K 1/16W	1	
	R55152	ERJ2RHD681X	680 1/16W	1	
	R55153	ERJ2GEJ224X	220K 1/16W	1	
	R55154	D0GD101JA017	100 1/10W	1	
	R55155	D0GA220JA023	22 1/16W	1	
	R55156	D0GA220JA023	22 1/16W	1	
	R55157	D0GA220JA023	22 1/16W	1	
	R55158	D0GD101JA017	100 1/10W	1	
	R55159	D0GA103JA023	10K 1/16W	1	
	R55160	ERJ8RQJR39V	0.39 1/8W	1	
	R55161	D0GDR82JA025	82 1/10W	1	
	R55167	ERJ2RHD821X	820 1/16W	1	
	R55168	ERJ2GEJ100X	10 1/16W	1	
	R55171	ERJ2GE0R00X	0 1/16W	1	
	R55172	D0GA103JA023	10K 1/16W	1	
	R55173	ERJ2GE0R00X	0 1/16W	1	
	R55174	ERJ2GE0R00X	0 1/16W	1	
	R55175	D0GA471JA023	470 1/16W	1	
	R55176	D0GA471JA023	470 1/16W	1	
	R55177	D0GA471JA023	470 1/16W	1	
	R55178	D0GA471JA023	470 1/16W	1	
	R55179	D0GA471JA023	470 1/16W	1	
	R55180	D0GA471JA023	470 1/16W	1	
	R55181	ERJ2GEJ681X	680 1/16W	1	
	R55182	ERJ2GE0R00X	0 1/16W	1	
	R55183	ERJ2GEJ681X	680 1/16W	1	
	R55185	ERJ2GE0R00X	0 1/16W	1	
	R55186	ERJ2GE0R00X	0 1/16W	1	
	R55189	ERJ2GE0R00X	0 1/16W	1	
	R55202	D0GA102JA023	1K 1/16W	1	
	R55216	D0GB683JA008	68K 1/16W	1	
	R55217	D0GA333JA023	33K 1/16W	1	
	R55218	D0GA333JA023	33K 1/16W	1	
	R55219	D0GA102JA023	1K 1/16W	1	
	R55238	D0GA102JA023	1K 1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R55264	ERJ2GE0R00X	0 1/16W	1	
	R55325	ERJ2GE0R00X	0 1/16W	1	
	R55328	D0GBR00JA008	0 1/16W	1	
	R55330	D0GBR00JA008	0 1/16W	1	
	R55331	ERJ2GE0R00X	0 1/16W	1	
	R55339	D0GBR00JA008	0 1/16W	1	
	R55371	ERJ2GE0R00X	0 1/16W	1	
	R55403	ERJ2GE0R00X	0 1/16W	1	
	R55901	D0GBR00JA008	0 1/16W	1	
	R55902	D0GBR00JA008	0 1/16W	1	
	R55903	D0GBR00JA008	0 1/16W	1	
	R55904	D0GBR00JA008	0 1/16W	1	
	R55905	D0GBR00JA008	0 1/16W	1	
	R55912	D0GDR00JA017	0 1/10W	1	
	R56004	D0GB121JA008	120 1/16W	1	
	R56006	D0GA470JA023	47 1/16W	1	
	R56007	D0GA330JA023	33 1/16W	1	
	R56008	D0GA330JA023	33 1/16W	1	
	R56009	ERJ3RBD182V	1.8K 1/16W	1	
	R56010	ERJ3RBD153V	15K 1/16W	1	
	R56011	ERJ3RBD103V	10K 1/16W	1	
	R56012	ERJ2GE0R00X	0 1/16W	1	
	R56013	D0GA330JA023	33 1/16W	1	
	R56014	D0GA103JA023	10K 1/16W	1	
	R56015	D0GA103JA023	10K 1/16W	1	
	R56016	ERJ2GEJ751X	750 1/16W	1	
	R56017	D0GA103JA023	10K 1/16W	1	
	R56019	D0GA101JA023	100 1/16W	1	
	R56020	D0GA101JA023	100 1/16W	1	
	R56021	D0GA470JA023	47 1/16W	1	
	R56022	D0GA470JA023	47 1/16W	1	
	R56023	D0GA101JA023	100 1/16W	1	
	R56024	D0GA101JA023	100 1/16W	1	
	R56028	D0GA470JA023	47 1/16W	1	
	R56029	D0GA103JA023	10K 1/16W	1	
	R56030	D0GA333JA023	33K 1/16W	1	
	R56031	D0GA101JA023	100 1/16W	1	
	R56032	ERJ2GEJ511X	510 1/16W	1	
	R56034	D0GA222JA023	2.2K 1/16W	1	
	R56035	D0GA222JA023	2.2K 1/16W	1	
	R56036	D0GA273JA023	27K 1/16W	1	
	R56037	D0GA273JA023	27K 1/16W	1	
	R56038	D0GA221JA023	220 1/16W	1	
	R56039	D0GA473JA023	47K 1/16W	1	
	R56040	D0GA393JA023	39K 1/16W	1	
	R56041	ERJ2GEJ225X	2.2M 1/16W	1	
	R56042	D0GA103JA023	10K 1/16W	1	
	R56043	ERJ2GEJ224X	220K 1/16W	1	
	R56044	D0GA104JA023	100K 1/16W	1	
	R56045	D0GA104JA023	100K 1/16W	1	
	R56071	D0GA330JA023	33 1/16W	1	
	R56072	D0GA330JA023	33 1/16W	1	
	R56073	D0GA330JA023	33 1/16W	1	
	R56074	D0GA330JA023	33 1/16W	1	
	R56075	D0GA330JA023	33 1/16W	1	
	R56076	D0GA330JA023	33 1/16W	1	
	R56091	D0GA470JA023	47 1/16W	1	
	R56092	D0GA470JA023	47 1/16W	1	
	R56093	D0GA470JA023	47 1/16W	1	
	R56094	D0GA470JA023	47 1/16W	1	
	R56095	D0GA470JA023	47 1/16W	1	
	R56096	D0GA470JA023	47 1/16W	1	
	R56097	D0GA470JA023	47 1/16W	1	
	R56103	D0GA470JA023	47 1/16W	1	
	R56501	ERJ2RHD123X	12K 1/16W	1	
	R56502	ERJ2RHD243X	24K 1/16W	1	
	R56503	ERJ2RHD103X	10K 1/16W	1	
	R56504	ERJ2RKD680X	68 1/16W	1	
	R56505	ERJ2RKD120X	12 1/16W	1	
	R56506	D0GA330JA023	33 1/16W	1	
	R56507	D0GB681JA008	680 1/16W	1	
	R56508	ERJ2RKD680X	68 1/16W	1	
	R56509	ERJ2RKD120X	12 1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R56510	D0GA330JA023	33 1/16W	1	
	R56511	D0GB681JA008	680 1/16W	1	
	R56512	ERJ2RKD680X	68 1/16W	1	
	R56513	ERJ2RKD120X	12 1/16W	1	
	R56514	D0GA330JA023	33 1/16W	1	
	R56515	D0GB681JA008	680 1/16W	1	
	R56516	ERJ2RKD680X	68 1/16W	1	
	R56517	ERJ2RKD150X	15 1/16W	1	
	R56520	ERJ2RKD680X	68 1/16W	1	
	R56521	ERJ2RKD120X	12 1/16W	1	
	R56524	ERJ2GE0R00X	0 1/16W	1	
	R56525	ERJ2GE0R00X	0 1/16W	1	
	R56526	ERJ2GE0R00X	0 1/16W	1	
	R56527	ERJ2GE0R00X	0 1/16W	1	
	R56531	D0GA332JA023	3.3K 1/16W	1	
	R56532	D0GA103JA023	10K 1/16W	1	
	R56533	D0GA103JA023	10K 1/16W	1	
	R56534	D0GA103JA023	10K 1/16W	1	
	R56536	D0GA103JA023	10K 1/16W	1	
	R56542	ERJ2GE0R00X	0 1/16W	1	
	R57000	D0GBR00JA008	0 1/16W	1	
	R57001	D0GBR00JA008	0 1/16W	1	
	R57003	D0GA470JA023	47 1/16W	1	
	R57004	D0GBR00JA008	0 1/16W	1	
	R57006	D0GA470JA023	47 1/16W	1	
	R57010	D0GBR00JA008	0 1/16W	1	
	R58008	ERJ3RBD223V	22K 1/16W	1	
	R58009	ERJ3RBD223V	22K 1/16W	1	
	R58010	ERJ3RBD333V	33K 1/16W	1	
	R58011	D0HB183ZA002	18K 1/16W	1	
	R58012	D0GA333JA023	33K 1/16W	1	
	R58013	D0GA473JA023	47K 1/16W	1	
	R58014	ERJ2GEJ224X	220K 1/16W	1	
	R58016	D0GBR00JA008	0 1/16W	1	
	R58017	D0GA101JA023	100 1/16W	1	
	R58018	D0GA473JA023	47K 1/16W	1	
	R58019	D0GA473JA023	47K 1/16W	1	
	R58020	D0GBR00JA008	0 1/16W	1	
	R58021	ERJ3RBD332V	3.3K 1/16W	1	
	R58025	ERJ3RBD221V	220 1/16W	1	
	R58026	D0GA393JA023	39K 1/16W	1	
	R58027	D0GA393JA023	39K 1/16W	1	
	R58028	D0GA101JA023	100 1/16W	1	
	R58029	D0GA473JA023	47K 1/16W	1	
	R58033	D0GA104JA023	100K 1/16W	1	
	R58034	D0GA103JA023	10K 1/16W	1	
	R58035	ERJ2GEJ513X	51K 1/16W	1	
	R58036	D0GB680JA008	68 1/16W	1	
	R58038	D0GA101JA023	100 1/16W	1	
	R58039	ERJ2GEJ4R7X	4.7 1/16W	1	
	R58040	ERJ2GEJ4R7X	4.7 1/16W	1	
	R58041	ERJ2GE0R00X	0 1/16W	1	
	R58042	D0GA101JA023	100 1/16W	1	
	R58043	ERJ2GEJ4R7X	4.7 1/16W	1	
	R58044	ERJ2GEJ4R7X	4.7 1/16W	1	
	R58050	ERJ3RBD472V	4.7K 1/16W	1	
	R58052	ERJ3RBD273V	27K 1/16W	1	
	R58053	ERJ3RBD103V	10K 1/16W	1	
	R58054	D0GD100JA017	10 1/10W	1	
	R58056	D0GB222JA008	2.2K 1/16W	1	
	R58066	D0GA101JA023	100 1/16W	1	
	R58067	D0GA101JA023	100 1/16W	1	
	R58069	D0GB2R2JA007	2.2 1/16W	1	
	R58070	D0GB2R2JA007	2.2 1/16W	1	
	R58201	D0GB101JA008	100 1/16W	1	
	R58202	D0GB101JA008	100 1/16W	1	
	R58203	D0GB101JA008	100 1/16W	1	
	R58204	D0GB101JA008	100 1/16W	1	
	R58205	D0GB101JA008	100 1/16W	1	
	R58206	D0GB101JA008	100 1/16W	1	
	R58207	D0GB101JA008	100 1/16W	1	
	R58208	D0GB101JA008	100 1/16W	1	
	R58209	D0GB101JA008	100 1/16W	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	R58210	D0GB101JA008	100 1/16W	1	
	R58211	D0GB101JA008	100 1/16W	1	
	R58212	D0GB101JA008	100 1/16W	1	
	R58214	D0GB101JA008	100 1/16W	1	
	R58215	D0GB101JA008	100 1/16W	1	
	R58218	D0GB101JA008	100 1/16W	1	
	R58219	D0GB101JA008	100 1/16W	1	
	R59001	D0GA330JA023	33 1/16W	1	
	R59002	D0GA330JA023	33 1/16W	1	
	R59003	D0GA330JA023	33 1/16W	1	
	R59004	D0GA330JA023	33 1/16W	1	
	R59005	ERJ2GE0R00X	0 1/16W	1	
	R59006	D0GA472JA023	4.7K 1/16W	1	
	R59007	D0GA330JA023	33 1/16W	1	
	R59008	D0GA330JA023	33 1/16W	1	
	R59009	D0GA330JA023	33 1/16W	1	
	R59010	D0GA330JA023	33 1/16W	1	
	R59011	D0GA330JA023	33 1/16W	1	
	R59012	D0GA330JA023	33 1/16W	1	
	R59013	D0GA330JA023	33 1/16W	1	
	R59014	D0GA330JA023	33 1/16W	1	
	R59015	D0GBR00JA008	0 1/16W	1	
	R59018	D0GBR00JA008	0 1/16W	1	
	R59019	D0GA105JA023	1M 1/16W	1	
	R59020	D1BA6491A004	6.49K 1/16W	1	
	R59021	D1BD49R9A008	49.9 1/8W	1	
	R59022	D1BD49R9A008	49.9 1/8W	1	
	R59023	D1BD49R9A008	49.9 1/8W	1	
	R59024	D1BD49R9A008	49.9 1/8W	1	
	R59025	D0GBR00JA008	0 1/16W	1	
	R59026	D0GBR00JA008	0 1/16W	1	
	R59068	D0GA333JA023	33K 1/16W	1	
	R59073	D0GA472JA023	4.7K 1/16W	1	
	R59074	D0GA102JA023	1K 1/16W	1	
	R59075	D0GA102JA023	1K 1/16W	1	
	R59076	D0GA102JA023	1K 1/16W	1	
	R59077	D0GA333JA023	33K 1/16W	1	
	R59078	D0GA333JA023	33K 1/16W	1	
	RX300	D1H83304A024	RESISTOR NETWORK	1	
	RX301	D1H83304A024	RESISTOR NETWORK	1	
	RX302	D1H83304A024	RESISTOR NETWORK	1	
	RX303	D1H83304A024	RESISTOR NETWORK	1	
	RX304	D1H83304A024	RESISTOR NETWORK	1	
	RX305	D1H83304A024	RESISTOR NETWORK	1	
	RX306	D1H83304A024	RESISTOR NETWORK	1	
	RX307	D1H83304A024	RESISTOR NETWORK	1	
	RX308	D1H83304A024	RESISTOR NETWORK	1	
	RX309	D1H83304A024	RESISTOR NETWORK	1	
	RX310	D1H83304A024	RESISTOR NETWORK	1	
	RX51001	D1H8472A024	RESISTOR NETWORK	1	
	RX51492	D1H8R0040009	RESISTOR NETWORK	1	
	RX51493	D1H83304A024	RESISTOR NETWORK	1	
	RX51494	D1H83304A024	RESISTOR NETWORK	1	
	RX51499	D1H83334A024	RESISTOR NETWORK	1	
	RX51500	D1H8R0040009	RESISTOR NETWORK	1	
	RX51502	D1H8R0040009	RESISTOR NETWORK	1	
	RX51503	D1H8R0040009	RESISTOR NETWORK	1	
	RX51508	D1H83334A024	RESISTOR NETWORK	1	
	RX51509	D1H85604A024	RESISTOR NETWORK	1	
	RX51510	D1H85604A024	RESISTOR NETWORK	1	
	RX51511	D1H83334A024	RESISTOR NETWORK	1	
	RX51512	D1H85604A024	RESISTOR NETWORK	1	
	RX51513	D1H85604A024	RESISTOR NETWORK	1	
	RX51514	D1H85604A024	RESISTOR NETWORK	1	
	RX51515	D1H85604A024	RESISTOR NETWORK	1	
	RX51516	D1H85604A024	RESISTOR NETWORK	1	
	RX51517	D1H85604A024	RESISTOR NETWORK	1	
	RX51518	D1H85604A024	RESISTOR NETWORK	1	
	RX51519	D1H85604A024	RESISTOR NETWORK	1	
	RX51520	D1H85604A024	RESISTOR NETWORK	1	
	RX51521	D1H85604A024	RESISTOR NETWORK	1	
	RX51523	D1H81034A024	RESISTOR NETWORK	1	
	RX51524	D1H81034A024	RESISTOR NETWORK	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	RX51526	D1H85604A024	RESISTOR NETWORK	1	
	RX51601	D1H81034A024	RESISTOR NETWORK	1	
	RX51602	D1H83334A024	RESISTOR NETWORK	1	
	RX51603	D1H82204A024	RESISTOR NETWORK	1	
	RX51604	D1H83334A024	RESISTOR NETWORK	1	
	RX51609	D1H84724A024	RESISTOR NETWORK	1	
	RX51610	D1H85604A024	RESISTOR NETWORK	1	
	RX51611	D1H85604A024	RESISTOR NETWORK	1	
	RX51612	D1H84704A024	RESISTOR NETWORK	1	
	RX52001	D1H85604A024	RESISTOR NETWORK	1	
	RX52002	D1H85604A024	RESISTOR NETWORK	1	
	RX52003	D1H88204A024	RESISTOR NETWORK	1	
	RX52004	D1H88204A024	RESISTOR NETWORK	1	
	RX52005	D1H88204A024	RESISTOR NETWORK	1	
	RX52201	D1H88204A024	RESISTOR NETWORK	1	
	RX52202	D1H88204A024	RESISTOR NETWORK	1	
	RX52203	D1H88204A024	RESISTOR NETWORK	1	
	RX52204	D1H85604A024	RESISTOR NETWORK	1	
	RX52205	D1H85604A024	RESISTOR NETWORK	1	
	RX55103	D1H83304A024	RESISTOR NETWORK	1	
	RX55104	D1H83304A024	RESISTOR NETWORK	1	
	RX55105	D1H83304A024	RESISTOR NETWORK	1	
	RX56027	D1H83304A024	RESISTOR NETWORK	1	
	RX56028	D1H83304A024	RESISTOR NETWORK	1	
	RX56029	D1H83304A024	RESISTOR NETWORK	1	
	RX56030	D1H83304A024	RESISTOR NETWORK	1	
	RX56031	D1H83304A024	RESISTOR NETWORK	1	
	RX56032	D1H83304A024	RESISTOR NETWORK	1	
	RX57001	D1H84704A024	RESISTOR NETWORK	1	
	RX57002	D1H84704A024	RESISTOR NETWORK	1	
	RX57003	D1H83324A024	RESISTOR NETWORK	1	
	RX57004	D1H83324A024	RESISTOR NETWORK	1	
	RX58002	D1H8R0040009	RESISTOR NETWORK	1	
	RX58003	D1H8R0040009	RESISTOR NETWORK	1	
	RX59001	D1H83304A024	RESISTOR NETWORK	1	
	RX59002	D1H83304A024	RESISTOR NETWORK	1	
			CAPACITORS		
	C100	F2A0J101A245	100uF 6.3V	1	
	C101	ECJ1VC1H470K	47pF 50V	1	
	C104	F1H1H472A219	4700pF 50V	1	
	C105	F1H1H472A219	4700pF 50V	1	
	C108	F1H1H472A219	4700pF 50V	1	
	C110	F1H1H472A219	4700pF 50V	1	
	C111	F1H1H104A013	0.1uF 50V	1	
	C112	F1H1H472A219	4700pF 50V	1	
	C113	F1H1H472A219	4700pF 50V	1	
	C114	F1H1H104A013	0.1uF 50V	1	
	C115	F1H1H472A219	4700pF 50V	1	
	C117	F1H1H104A013	0.1uF 50V	1	
	C119	F1H1H104A013	0.1uF 50V	1	
	C121	F1H1C105A097	1uF 16V	1	
	C122	F1H1H104A013	0.1uF 50V	1	
	C123	F1J0J106A014	10uF 6.3V	1	
	C124	F1H1H220A004	22pF 50V	1	
	C125	F1H1H220A004	22pF 50V	1	
	C127	F1H1A105A025	1uF 10V	1	
	C128	F1H1A105A025	1uF 10V	1	
	C129	F1H1H104A013	0.1uF 50V	1	
	C130	F1J1A106A043	10uF 10V	1	
	C136	F1H1C105A097	1uF 16V	1	
	C137	F1H1H104A013	0.1uF 50V	1	
	C260	F1H1H104A013	0.1uF 50V	1	
	C261	F1H1H103A219	0.01uF 50V	1	
	C262	F1H1H104A013	0.1uF 50V	1	
	C270	F2A0J101A245	100uF 6.3V	1	
	C271	F1H1H104A013	0.1uF 50V	1	
	C272	F1H1H104A013	0.1uF 50V	1	
	C273	F1H1H104A013	0.1uF 50V	1	
	C274	F1H1H104A013	0.1uF 50V	1	
	C275	F1H1H104A013	0.1uF 50V	1	
	C276	F1H1H104A013	0.1uF 50V	1	
	C344	F1J1A106A043	10uF 10V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C345	F1H1H104A013	0.1uF 50V	1	
	C347	F1H1H104A013	0.1uF 50V	1	
	C348	F1H1H104A013	0.1uF 50V	1	
	C349	F1H1C105A097	1uF 16V	1	
	C350	F1H1H104A013	0.1uF 50V	1	
	C351	F1H1H104A013	0.1uF 50V	1	
	C352	F1H1C105A097	1uF 16V	1	
	C353	F1H1H104A013	0.1uF 50V	1	
	C354	F1H1H104A013	0.1uF 50V	1	
	C358	F1H1H104A013	0.1uF 50V	1	
	C359	F1H1H104A013	0.1uF 50V	1	
	C360	F1H1C105A097	1uF 16V	1	
	C361	F1H1C105A097	1uF 16V	1	
	C362	F1H1H104A013	0.1uF 50V	1	
	C363	F1H1H104A013	0.1uF 50V	1	
	C364	F1H1H104A013	0.1uF 50V	1	
	C365	F1H1H104A013	0.1uF 50V	1	
	C367	F1H1C105A097	1uF 16V	1	
	C368	F1H1C105A097	1uF 16V	1	
	C371	F1H1H104A013	0.1uF 50V	1	
	C374	F1H1H104A013	0.1uF 50V	1	
	C376	F1H1H104A013	0.1uF 50V	1	
	C377	F1H1H104A013	0.1uF 50V	1	
	C380	F1H1H104A013	0.1uF 50V	1	
	C381	F1H1H104A013	0.1uF 50V	1	
	C382	F1H1H104A013	0.1uF 50V	1	
	C383	F1H1H104A013	0.1uF 50V	1	
	C384	F1H1H104A013	0.1uF 50V	1	
	C385	F1H1C105A097	1uF 16V	1	
	C386	F1H1H104A013	0.1uF 50V	1	
	C387	ECJ1VC1H470K	47pF 50V	1	
	C388	ECJ1VC1H470K	47pF 50V	1	
	C389	F1H1H103A219	0.01uF 50V	1	
	C390	F1H1H103A219	0.01uF 50V	1	
	C391	F1H1C105A097	1uF 16V	1	
	C392	F1J1A106A043	10uF 10V	1	
	C405	F1H1H104A013	0.1uF 50V	1	
	C406	F1H1H104A013	0.1uF 50V	1	
	C407	F1H1H104A013	0.1uF 50V	1	
	C420	F1J0J106A014	10uF 6.3V	1	
	C421	F2A1C330A234	33uF 16V	1	
	C424	F1J1A106A043	10uF 10V	1	
	C425	F1J1A106A043	10uF 10V	1	
	C426	F1H1H100A017	10pF 50V	1	
	C427	F1H1H100A017	10pF 50V	1	
	C428	F2A1A101A206	100uF 10V	1	
	C429	F2A1A101A206	100uF 10V	1	
	C450	F1H1H103A219	0.01uF 50V	1	
	C451	F1H1H101A720	100pF 50V	1	
	C452	F1H1H101A720	100pF 50V	1	
	C453	F1H1H103A219	0.01uF 50V	1	
	C530	F1H1H104A013	0.1uF 50V	1	
	C531	F1H1H103A219	0.01uF 50V	1	
	C532	F1H1H103A219	0.01uF 50V	1	
	C533	ECJ1VC1H220K	22pF 50V	1	
	C650	ECA1AM221B	220uF 10V	1	
	C831	F1H1H102A219	1000pF 50V	1	
	C832	F1H1H470A004	47pF 50V	1	
	C833	F1J1A106A043	10uF 10V	1	
	C834	F1H1H470A004	47pF 50V	1	
	C835	F1H1H331A004	330pF 50V	1	
	C836	F1J1A106A043	10uF 10V	1	
	C837	F1J1A106A043	10uF 10V	1	
	C838	F1H1H102A219	1000pF 50V	1	
	C839	F1H1H103A219	0.01uF 50V	1	
	C840	F1J1A106A043	10uF 10V	1	
	C841	F1J1A106A043	10uF 10V	1	
	C842	F1H1H561A935	560pF 50V	1	
	C901	D0GBR00JA008	0 1/16W	1	
	C902	D0GBR00JA008	0 1/16W	1	
	C903	D0GBR00JA008	0 1/16W	1	
	C904	D0GBR00JA008	0 1/16W	1	
	C907	F2A0J1220028	1200uF 6.3V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C911	F1H1H102A219	1000pF 50V	1	
	C912	F1H1H102A219	1000pF 50V	1	
	C1001	F1H1H104A013	0.1uF 50V	1	
	C1002	F1H1H104A013	0.1uF 50V	1	
	C1003	F1H1H104A013	0.1uF 50V	1	
	C1004	F1H1H104A013	0.1uF 50V	1	
	C1101	F1H1C104A042	0.1uF 16V	1	
	C1102	F2A0J101A245	100uF 6.3V	1	
	C1103	F1H1A105A025	1uF 10V	1	
	C1104	F1H1A105A025	1uF 10V	1	
	C1105	F1H1H104A013	0.1uF 50V	1	
	C1107	F1J1A106A043	10uF 10V	1	
	C1108	F1J1A106A043	10uF 10V	1	
	C1109	F1H1H104A013	0.1uF 50V	1	
	C1110	F1H1H104A013	0.1uF 50V	1	
	C1113	F1H1H101A720	100pF 50V	1	
	C1114	F1H1H101A720	100pF 50V	1	
	C1115	F1H1H330A230	33pF 50V	1	
	C1116	F1H1H330A230	33pF 50V	1	
	C1117	F1H1C105A097	1uF 16V	1	
	C1118	F1H1C105A097	1uF 16V	1	
	C1119	F1H1H471A219	470pF 50V	1	
	C1120	F1H1H471A219	470pF 50V	1	
	C1122	F1H1H103A219	0.01uF 50V	1	
	C1123	F1J1A106A043	10uF 10V	1	
	C1124	F1J1A106A043	10uF 10V	1	
	C1451	F1H1H104A013	0.1uF 50V	1	
	C2001	F1H1H221A792	220pF 50V	1	
	C2002	F1H1H221A792	220pF 50V	1	
	C2003	F1H1H104A013	0.1uF 50V	1	
	C3001	F1H1C105A097	1uF 16V	1	
	C3002	ECJ1VC1H180J	18pF 50V	1	
	C3008	ECJ1VC1H180J	18pF 50V	1	
	C3018	F1H1H100A017	10pF 50V	1	
	C3029	F1H1H330A230	33pF 50V	1	
	C3030	F1H1H330A230	33pF 50V	1	
	C3031	F1H1H330A230	33pF 50V	1	
	C4001	F1H1C104A042	0.1uF 16V	1	
	C4061	F1J1A106A043	10uF 10V	1	
	C4062	F1J1A106A043	10uF 10V	1	
	C4065	F1H1H101A230	100pF 50V	1	
	C4066	F1H1H101A230	100pF 50V	1	
	C4073	F1H1C105A097	1uF 16V	1	
	C4074	F1H1C105A097	1uF 16V	1	
	C4082	F1J1A106A043	10uF 10V	1	
	C4083	F1J1A106A043	10uF 10V	1	
	C4084	F1H1C105A097	1uF 16V	1	
	C4085	F1H1C105A097	1uF 16V	1	
	C4086	F1J1A106A043	10uF 10V	1	
	C4087	F1H1C105A097	1uF 16V	1	
	C4088	F1H1C105A097	1uF 16V	1	
	C4089	F1H1C105A097	1uF 16V	1	
	C4090	F1J1A106A043	10uF 10V	1	
	C4091	F1J1A106A043	10uF 10V	1	
	C4092	F1H1H332A013	3300pF 50V	1	
	C4093	F1H1H332A013	3300pF 50V	1	
	C4094	F1H1H332A013	3300pF 50V	1	
	C4095	F1H1H332A013	3300pF 50V	1	
	C4096	F1H1H104A013	0.1uF 50V	1	
	C4097	F1H1H332A013	3300pF 50V	1	
	C4098	F1H1H332A013	3300pF 50V	1	
	C4099	F1H1H332A013	3300pF 50V	1	
	C4151	F1J1A106A043	10uF 10V	1	
	C4152	F1J1A106A043	10uF 10V	1	
	C4155	F1H1C105A097	1uF 16V	1	
	C4156	F1J1A106A043	10uF 10V	1	
	C4161	F1H1H103A219	0.01uF 50V	1	
	C4162	F1H1H103A219	0.01uF 50V	1	
	C4202	F1H1H104A013	0.1uF 50V	1	
	C4204	F1H1H104A013	0.1uF 50V	1	
	C4331	F1H1C105A097	1uF 16V	1	
	C4332	F1H1C105A097	1uF 16V	1	
	C4333	F1H1H101A230	100pF 50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C4334	F1H1H101A230	100pF 50V	1	
	C4335	F1H1H102A219	1000pF 50V	1	
	C4336	F1H1H102A219	1000pF 50V	1	
	C4337	F1H1H101A230	100pF 50V	1	
	C4338	F1H1H101A230	100pF 50V	1	
	C4339	F1J1A106A043	10uF 10V	1	
	C4340	F1J1A106A043	10uF 10V	1	
	C4341	F1H1H104A013	0.1uF 50V	1	
	C4342	F1H1H104A013	0.1uF 50V	1	
	C4351	F1H1C105A097	1uF 16V	1	
	C4352	F1H1C105A097	1uF 16V	1	
	C4353	F1H1H101A230	100pF 50V	1	
	C4354	F1H1H101A230	100pF 50V	1	
	C4355	F1H1H102A219	1000pF 50V	1	
	C4356	F1H1H102A219	1000pF 50V	1	
	C4357	F1H1H101A230	100pF 50V	1	
	C4358	F1H1H101A230	100pF 50V	1	
	C4359	F1J1A106A043	10uF 10V	1	
	C4360	F1J1A106A043	10uF 10V	1	
	C4361	F1H1H104A013	0.1uF 50V	1	
	C4362	F1H1H104A013	0.1uF 50V	1	
	C5000	ECJ2FB1E105K	1uF 25V	1	
	C5001	F1H1H104A013	0.1uF 50V	1	
	C5003	ECJ2FB1E105K	1uF 25V	1	
	C5004	ECJ2FB1E105K	1uF 25V	1	
	C5005	F1K1C1060001	10uF 16V	1	
	C5006	F1H1H102A219	1000pF 50V	1	
	C5009	F1K2A1040007	0.1uF 100V	1	
	C5011	ECJ2FB1E105K	1uF 25V	1	
	C5017	ECJ3VB1H104K	0.1uF 50V	1	
	C5018	ECJ3VB1H104K	0.1uF 50V	1	
	C5019	F2A1H4710069	470uF 50V	1	
	C5020	F2A1H4710069	470uF 50V	1	
	C5021	F2A1C330A234	33uF 16V	1	
	C5022	F1H1H104A013	0.1uF 50V	1	
	C5023	ECA1HAK010XB	1uF 50V	1	
	C5024	F2A0J221A245	220uF 6.3V	1	
	C5025	F2A1C220A234	22uF 16V	1	
	C5026	F1H1H104A013	0.1uF 50V	1	
	C5027	EEE1CA100SR	10uF 16V	1	
	C5028	F1H1H102A219	1000pF 50V	1	
	C5029	F1H1C104A042	0.1uF 16V	1	
	C5038	F1H1C104A042	0.1uF 16V	1	
	C5042	F2A0J101A245	100uF 6.3V	1	
	C5047	F1H1C104A042	0.1uF 16V	1	
	C5048	F2A1C220A234	22uF 16V	1	
	C5049	EEE1CA100SR	10uF 16V	1	
	C5055	ECJ2YB1C474K	0.47uF 16V	1	
	C5056	F1H1H103A219	0.01uF 50V	1	
	C5057	F2A1C220A234	22uF 16V	1	
	C5071	F1J0J106A020	10uF 6.3V	1	
	C5072	F1H1C105A097	1uF 16V	1	
	C5076	F2A1H4R7A234	4.7uF 50V	1	
	C5101	F1J0J106A020	10uF 6.3V	1	
	C5103	F1H1H222A219	2200pF 50V	1	
	C5104	F1H1H222A219	2200pF 50V	1	
	C5105	F1H1H102A219	1000pF 50V	1	
	C5106	F1K1C1060001	10uF 16V	1	
	C5107	ECQV1H474JL3	0.47uF 50V	1	
	C5108	F1H1H104A013	0.1uF 50V	1	
	C5109	F1H1H102A219	1000pF 50V	1	
	C5110	F1H1H102A219	1000pF 50V	1	
	C5111	F1J0J106A020	10uF 6.3V	1	
	C5112	F1K2A1040007	0.1uF 100V	1	
	C5113	F1K2A105A006	1uF 100V	1	
	C5114	F1K1H105A149	1uF 50V	1	
	C5115	F1K1H105A149	1uF 50V	1	
	C5201	F1J0J106A020	10uF 6.3V	1	
	C5203	F1H1H222A219	2200pF 50V	1	
	C5204	F1H1H222A219	2200pF 50V	1	
	C5205	F1H1H102A219	1000pF 50V	1	
	C5206	F1K1C1060001	10uF 16V	1	
	C5207	ECQV1H474JL3	0.47uF 50V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C5208	F1H1H104A013	0.1uF 50V	1	
	C5209	F1H1H102A219	1000pF 50V	1	
	C5210	F1H1H102A219	1000pF 50V	1	
	C5211	F1J0J106A020	10uF 6.3V	1	
	C5212	F1K2A1040007	0.1uF 100V	1	
	C5213	F1K2A105A006	1uF 100V	1	
	C5214	F1K1H105A149	1uF 50V	1	
	C5215	F1K1H105A149	1uF 50V	1	
	C5301	F1J0J106A020	10uF 6.3V	1	
	C5303	F1H1H222A219	2200pF 50V	1	
	C5304	F1H1H222A219	2200pF 50V	1	
	C5305	F1H1H102A219	1000pF 50V	1	
	C5306	F1K1C1060001	10uF 16V	1	
	C5307	ECQV1H474JL3	0.47uF 50V	1	
	C5308	F1H1H104A013	0.1uF 50V	1	
	C5309	F1H1H102A219	1000pF 50V	1	
	C5310	F1H1H102A219	1000pF 50V	1	
	C5311	F1J0J106A020	10uF 6.3V	1	
	C5312	F1K2A1040007	0.1uF 100V	1	
	C5313	F1K2A105A006	1uF 100V	1	
	C5314	F1K1H105A149	1uF 50V	1	
	C5315	F1K1H105A149	1uF 50V	1	
	C5406	ERJ8GEY0R00V	0 1/4W	1	
⚠	C5700	F1BAF2220023	2200pF	1	
⚠	C5701	ECQU2A104MLC	0.1uF	1	
⚠	C5702	ECQU2A104MLC	0.1uF	1	
⚠	C5704	F1BAF1020020	1000pF	1	
⚠	C5705	F1BAF101A013	100pF	1	
	C5711	F2A2G1810002	180uF 400V	1	
	C5713	F0C2J1030005	0.01uF 630V	1	
	C5720	F1H1H102A219	1000pF 50V	1	
	C5721	ECJ1VB1H221K	220pF 50V	1	
	C5722	F1H1H222A219	2200pF 50V	1	
	C5723	F1H1H471A219	470pF 50V	1	
	C5724	F1H1H102A219	1000pF 50V	1	
	C5725	F1H1H104A013	0.1uF 50V	1	
	C5726	F2A1H100A454	10uF 50V	1	
	C5727	F1H1H222A219	2200pF 50V	1	
	C5730	F1H1E105A116	1uF 25V	1	
	C5747	ECKE3D821KBP	820pF 2000V	1	
	C5790	F1K2J2220002	2200pF 630V	1	
	C5791	F1H1E105A116	1uF 25V	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	F2A1H2220038	2200uF 50V	1	
	C5808	F2A1H2220038	2200uF 50V	1	
	C5810	F1H1H104A013	0.1uF 50V	1	
	C5811	F1J2E1030004	0.01uF 250V	1	
	C5812	F1H1H104A013	0.1uF 50V	1	
	C5813	F2A1V3310040	330uF 35V	1	
	C5815	F1H1H104A013	0.1uF 50V	1	
	C5816	F2A1E2210050	220uF 25V	1	
	C5817	F2A2AR100001	0.10uF 100V	1	
	C5818	F1H1H104A013	0.1uF 50V	1	
	C5823	F1H1H104A013	0.1uF 50V	1	
	C5824	F2A1E2210050	220uF 25V	1	
	C5826	F1J2E1030004	0.01uF 250V	1	
	C5827	F1J2E1030004	0.01uF 250V	1	
	C5828	F2A0J222A247	2200uF 6.3V	1	
	C5831	F1H1H104A013	0.1uF 50V	1	
	C5832	F1H1H104A013	0.1uF 50V	1	
	C5839	F1J2E1030004	0.01uF 250V	1	
	C5840	F1J2E1030004	0.01uF 250V	1	
	C5841	F1J2E1030004	0.01uF 250V	1	
	C5842	F1J2E1030004	0.01uF 250V	1	
	C5869	F1H1H103A219	0.01uF 50V	1	
	C5896	F1H1H104A013	0.1uF 50V	1	
	C5897	F1H1H104A013	0.1uF 50V	1	
	C5898	F1H1H104A013	0.1uF 50V	1	
	C5899	F2A1A2210063	220uF 10V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C6001	F2A1H220A182	22uF 50V	1	
	C6002	F2A1H220A182	22uF 50V	1	
	C6003	F1H1H101A230	100pF 50V	1	
	C6004	F1H1H101A230	100pF 50V	1	
	C6005	F1H1H101A230	100pF 50V	1	
	C6006	F2A1H3R3A234	3.3uF 50V	1	
	C6007	F1H1H101A230	100pF 50V	1	
	C6008	F1H1H104A013	0.1uF 50V	1	
	C6009	F2A0J101A245	100uF 6.3V	1	
	C6010	F1H1H104A013	0.1uF 50V	1	
	C6111	F1H1H102A219	1000pF 50V	1	
	C6112	F1H1H102A219	1000pF 50V	1	
	C6202	F1J0J106A014	10uF 6.3V	1	
	C6203	F1J0J106A014	10uF 6.3V	1	
	C6204	F1J0J106A014	10uF 6.3V	1	
	C6206	F1H1H103A219	0.01uF 50V	1	
	C6207	F1H1H103A219	0.01uF 50V	1	
	C6208	F1H1H103A219	0.01uF 50V	1	
	C6451	F2A1C220A234	22uF 16V	1	
	C6452	F2A1C100A234	10uF 16V	1	
	C6453	F1H1H102A219	1000pF 50V	1	
	C6454	F1H1C104A042	0.1uF 16V	1	
	C6601	ECJ1VC1H220K	22pF 50V	1	
	C6602	ECJ1VC1H220K	22pF 50V	1	
	C6604	F1H1C105A097	1uF 16V	1	
	C6802	F1H1H102A219	1000pF 50V	1	
	C6803	F1H1C105A097	1uF 16V	1	
	C6804	F1H1C105A097	1uF 16V	1	
	C6901	F1H1H104A013	0.1uF 50V	1	
	C6902	F1H1H104A013	0.1uF 50V	1	
	C6903	F1H1H104A013	0.1uF 50V	1	
	C7001	F2A1V3310040	330uF 35V	1	
	C7002	F2A0J1220028	1200uF 6.3V	1	
	C7003	F2A1C8210008	820uF 16V	1	
	C7004	F2A0J221A245	220uF 6.3V	1	
	C7005	F2A1V470A654	47uF 35V	1	
	C7006	F2A1V330A379	33uF 35V	1	
	C7007	F2A1V5600013	56uF 35V	1	
	C7008	F1H1E105A116	1uF 25V	1	
	C7009	F1H1E105A116	1uF 25V	1	
	C7010	F1J1E105A171	1uF 25V	1	
	C7011	F2A0J3310059	330uF 6.3V	1	
	C7012	F2A0J3310059	330uF 6.3V	1	
	C7014	F2A0J102A247	1000uF 6.3V	1	
	C7016	F2A1C470A234	47uF 16V	1	
	C7017	F2A1C100A234	10uF 16V	1	
	C7018	F2A1C470A234	47uF 16V	1	
	C7019	F2A0J222A247	2200uF 6.3V	1	
	C7020	F2A1C221A236	220uF 16V	1	
	C7021	F2A1A101A206	100uF 10V	1	
	C7050	F1H1C224A068	0.22uF 16V	1	
	C7051	F1H1H102A219	1000pF 50V	1	
	C7052	F1H1H102A219	1000pF 50V	1	
	C7053	F1H1H104A013	0.1uF 50V	1	
	C7054	F1H1E105A116	1uF 25V	1	
	C7055	F1H1E105A116	1uF 25V	1	
	C7056	ECJ1VC1H471J	470pF 50V	1	
	C7057	F1H1H103A219	0.01uF 50V	1	
	C7058	F1H1E105A116	1uF 25V	1	
	C7059	F1H1E105A116	1uF 25V	1	
	C7061	ECJ1VB1H681K	680pF 50V	1	
	C7062	F1H1C224A068	0.22uF 16V	1	
	C7063	ECJ1VB1H681K	680pF 50V	1	
	C7064	F1H1H223A219	0.022uF 50V	1	
	C7066	F1J1V1050001	1uF 35V	1	
	C7067	F2A1A101A206	100uF 10V	1	
	C7068	F1H1E105A116	1uF 25V	1	
	C7069	F1J1H474A757	0.47uF 50V	1	
	C7070	F1H1H392A013	3900pF 50V	1	
	C7071	F1H1H223A219	0.022uF 50V	1	
	C7072	F1H1H153A219	0.015uF 50V	1	
	C7073	F1H1H152A219	1500pF 50V	1	
	C7074	F1H1A105A025	1uF 10V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C7075	F2A1C221A236	220uF 16V	1	
	C7076	F1H1H153A219	0.015uF 50V	1	
	C7077	F1H1C224A068	0.22uF 16V	1	
	C7081	F1H1E105A116	1uF 25V	1	
	C7082	F1J1A106A043	10uF 10V	1	
	C7102	F1H1H222A219	2200pF 50V	1	
	C7103	F1H1H153A219	0.015uF 50V	1	
	C7104	F1H1H223A219	0.022uF 50V	1	
	C7105	F1H1H104A013	0.1uF 50V	1	
	C7106	F1K1C1060001	10uF 16V	1	
	C7107	F1K1C1060001	10uF 16V	1	
	C7108	F1J0J106A014	10uF 6.3V	1	
	C7110	F2A0J101A245	100uF 6.3V	1	
	C7111	F1J0J106A014	10uF 6.3V	1	
	C7120	F2A0J102A247	1000uF 6.3V	1	
	C7121	F1H1H104A013	0.1uF 50V	1	
	C7122	F1H1H104A013	0.1uF 50V	1	
	C7123	F1H1H471A219	470pF 50V	1	
	C7124	F1J0J106A014	10uF 6.3V	1	
	C7125	F2A0J101A245	100uF 6.3V	1	
	C51001	F1G1C1030007	0.01uF 16V	1	
	C51002	F1G1A1040006	0.1uF 10V	1	
	C51003	F1G1C1030007	0.01uF 16V	1	
	C51004	F1G1H100A565	10pF 50V	1	
	C51005	F1G1A1040006	0.1uF 10V	1	
	C51006	F1G1H100A565	10pF 50V	1	
	C51007	F1G1A1040006	0.1uF 10V	1	
	C51008	F1G1A1040006	0.1uF 10V	1	
	C51009	F1G1A1040006	0.1uF 10V	1	
	C51010	F1G1A1040006	0.1uF 10V	1	
	C51011	F1G1A1040006	0.1uF 10V	1	
	C51012	F1G1A1040006	0.1uF 10V	1	
	C51016	ECJ0EC1H090D	9pF 50V	1	
	C51017	ECJ0EC1H090D	9pF 50V	1	
	C51018	F1G1H8R0A456	8.0pF 50V	1	
	C51019	F1G1H8R0A456	8.0pF 50V	1	
	C51020	F1J0J106A014	10uF 6.3V	1	
	C51021	ECJ0EB0J105K	1uF 6.3V	1	
	C51022	F1J0J106A014	10uF 6.3V	1	
	C51023	F1G1A1040006	0.1uF 10V	1	
	C51024	F1G1A1040006	0.1uF 10V	1	
	C51025	ECJ0EB0J105K	1uF 6.3V	1	
	C51026	F1G1A1040006	0.1uF 10V	1	
	C51027	F1G1A1040006	0.1uF 10V	1	
	C51028	F1G1A1040006	0.1uF 10V	1	
	C51029	F1G1A1040006	0.1uF 10V	1	
	C51030	F1J0J106A014	10uF 6.3V	1	
	C51031	ECJ0EB0J105K	1uF 6.3V	1	
	C51032	ECJ0EB0J105K	1uF 6.3V	1	
	C51033	F1G1A1040006	0.1uF 10V	1	
	C51034	F1G1A1040006	0.1uF 10V	1	
	C51035	F1G1A1040006	0.1uF 10V	1	
	C51036	F1J0J106A014	10uF 6.3V	1	
	C51037	ECJ0EB0J105K	1uF 6.3V	1	
	C51038	ECJ0EB0J105K	1uF 6.3V	1	
	C51039	F1G1A1040006	0.1uF 10V	1	
	C51040	F1J0J106A014	10uF 6.3V	1	
	C51041	F1G1A1040006	0.1uF 10V	1	
	C51042	F1G1A1040006	0.1uF 10V	1	
	C51043	F1G1A1040006	0.1uF 10V	1	
	C51044	F1G1A1040006	0.1uF 10V	1	
	C51045	F1G1A1040006	0.1uF 10V	1	
	C51046	F1J0J106A014	10uF 6.3V	1	
	C51047	ECJ0EB0J105K	1uF 6.3V	1	
	C51048	ECJ0EB0J105K	1uF 6.3V	1	
	C51049	F1G1A1040006	0.1uF 10V	1	
	C51050	F1G1A1040006	0.1uF 10V	1	
	C51051	F1G1A1040006	0.1uF 10V	1	
	C51052	F1J0J106A014	10uF 6.3V	1	
	C51053	ECJ0EB0J105K	1uF 6.3V	1	
	C51054	F1G1A1040006	0.1uF 10V	1	
	C51055	ECJ0EB0J105K	1uF 6.3V	1	
	C51056	F1J0J106A014	10uF 6.3V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C51057	F1G1A1040006	0.1uF 10V	1	
	C51058	F1G1A1040006	0.1uF 10V	1	
	C51059	ECJ0EB0J105K	1uF 6.3V	1	
	C51060	F1J0J106A014	10uF 6.3V	1	
	C51061	F1G1A1040006	0.1uF 10V	1	
	C51062	F1G1A1040006	0.1uF 10V	1	
	C51063	F1G1A1040006	0.1uF 10V	1	
	C51064	F1J0J106A014	10uF 6.3V	1	
	C51065	F1G1A1040006	0.1uF 10V	1	
	C51066	F1G1A1040006	0.1uF 10V	1	
	C51067	F1G1A1040006	0.1uF 10V	1	
	C51068	F1G1A1040006	0.1uF 10V	1	
	C51069	F1G1A1040006	0.1uF 10V	1	
	C51070	F1J0J106A014	10uF 6.3V	1	
	C51071	F1G1A1040006	0.1uF 10V	1	
	C51072	F1G1A1040006	0.1uF 10V	1	
	C51073	F1G1A1040006	0.1uF 10V	1	
	C51074	F1G1A1040006	0.1uF 10V	1	
	C51075	F1G1A1040006	0.1uF 10V	1	
	C51076	F1G1A1040006	0.1uF 10V	1	
	C51077	F1G1A1040006	0.1uF 10V	1	
	C51078	F1G1A1040006	0.1uF 10V	1	
	C51079	F1G1A1040006	0.1uF 10V	1	
	C51080	F1G1A1040006	0.1uF 10V	1	
	C51081	F1J0J106A014	10uF 6.3V	1	
	C51082	F1G1A1040006	0.1uF 10V	1	
	C51083	F1G1A1040006	0.1uF 10V	1	
	C51084	F1G1A1040006	0.1uF 10V	1	
	C51085	F1G1A1040006	0.1uF 10V	1	
	C51086	F1G1A1040006	0.1uF 10V	1	
	C51090	F1G1E1020001	1000pF 25V	1	
	C51091	F1G1E1020001	1000pF 25V	1	
	C51092	F1G1E1020001	1000pF 25V	1	
	C51093	ECJ0EB0J105K	1uF 6.3V	1	
	C51094	ECJ0EB0J105K	1uF 6.3V	1	
	C51095	ECJ0EB0J105K	1uF 6.3V	1	
	C51096	ECJ0EB0J105K	1uF 6.3V	1	
	C51097	F1G1A1040006	0.1uF 10V	1	
	C51098	F1G1A1040006	0.1uF 10V	1	
	C51099	F1G1A1040006	0.1uF 10V	1	
	C51100	F1G1A1040006	0.1uF 10V	1	
	C51101	F1G1A1040006	0.1uF 10V	1	
	C51102	F1G1A1040006	0.1uF 10V	1	
	C51103	F1G1A1040006	0.1uF 10V	1	
	C51104	F1G1A1040006	0.1uF 10V	1	
	C51105	F1G1A1040006	0.1uF 10V	1	
	C51605	F1G1A1040006	0.1uF 10V	1	
	C51606	F1G1C1030007	0.01uF 16V	1	
	C51607	F1J0J106A020	10uF 6.3V	1	
	C51608	F1J0J106A020	10uF 6.3V	1	
	C51609	F1J0J106A020	10uF 6.3V	1	
	C51612	F1G1A1040006	0.1uF 10V	1	
	C51613	F1J0J106A014	10uF 6.3V	1	
	C51614	F1G1A1040006	0.1uF 10V	1	
	C51615	F1G1A1040006	0.1uF 10V	1	
	C52001	F1G1A1040006	0.1uF 10V	1	
	C52002	F1G1A1040006	0.1uF 10V	1	
	C52006	F1G1A1040006	0.1uF 10V	1	
	C52007	F1G1A1040006	0.1uF 10V	1	
	C52008	F1J0J106A020	10uF 6.3V	1	
	C52009	F1G1A1040006	0.1uF 10V	1	
	C52010	F1G1A1040006	0.1uF 10V	1	
	C52011	F1G1A1040006	0.1uF 10V	1	
	C52012	F1G1A1040006	0.1uF 10V	1	
	C52013	F1J0J106A020	10uF 6.3V	1	
	C52014	F1G1A1040006	0.1uF 10V	1	
	C52015	F1G1A1040006	0.1uF 10V	1	
	C52016	F1G1A1040006	0.1uF 10V	1	
	C52017	F1G1A1040006	0.1uF 10V	1	
	C52018	F1G1A1040006	0.1uF 10V	1	
	C52019	F1J0J106A020	10uF 6.3V	1	
	C52020	F1G1A1040006	0.1uF 10V	1	
	C52021	F1G1A1040006	0.1uF 10V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C52022	F1G1A1040006	0.1uF 10V	1	
	C52023	F1G1A1040006	0.1uF 10V	1	
	C52024	F1J0J106A020	10uF 6.3V	1	
	C52025	F1G1A1040006	0.1uF 10V	1	
	C52026	F1G1A1040006	0.1uF 10V	1	
	C52027	F1G1A1040006	0.1uF 10V	1	
	C52028	F1G1A1040006	0.1uF 10V	1	
	C52030	F1G1A1040006	0.1uF 10V	1	
	C52031	F1G1A1040006	0.1uF 10V	1	
	C52032	F1G1A1040006	0.1uF 10V	1	
	C52033	F1G1A1040006	0.1uF 10V	1	
	C52034	F1G1A1040006	0.1uF 10V	1	
	C52035	F1G1A1040006	0.1uF 10V	1	
	C52036	F1G1A1040006	0.1uF 10V	1	
	C52040	F1G1A1040006	0.1uF 10V	1	
	C52041	F1G1A1040006	0.1uF 10V	1	
	C52042	F1G1A1040006	0.1uF 10V	1	
	C52043	F1G1A1040006	0.1uF 10V	1	
	C52044	F1G1A1040006	0.1uF 10V	1	
	C52045	F1G1A1040006	0.1uF 10V	1	
	C52046	F1G1A1040006	0.1uF 10V	1	
	C52047	F1G1A1040006	0.1uF 10V	1	
	C52048	ECJ0EB0J105K	1uF 6.3V	1	
	C52049	ECJ0EB0J105K	1uF 6.3V	1	
	C52201	F1G1A1040006	0.1uF 10V	1	
	C52202	F1G1A1040006	0.1uF 10V	1	
	C52206	F1G1A1040006	0.1uF 10V	1	
	C52207	F1J0J106A020	10uF 6.3V	1	
	C52208	F1G1A1040006	0.1uF 10V	1	
	C52209	F1G1A1040006	0.1uF 10V	1	
	C52210	F1G1A1040006	0.1uF 10V	1	
	C52211	F1G1A1040006	0.1uF 10V	1	
	C52212	F1J0J106A020	10uF 6.3V	1	
	C52213	F1G1A1040006	0.1uF 10V	1	
	C52214	F1G1A1040006	0.1uF 10V	1	
	C52215	F1G1A1040006	0.1uF 10V	1	
	C52216	F1G1A1040006	0.1uF 10V	1	
	C52217	F1G1A1040006	0.1uF 10V	1	
	C52218	F1J0J106A020	10uF 6.3V	1	
	C52219	F1G1A1040006	0.1uF 10V	1	
	C52220	F1G1A1040006	0.1uF 10V	1	
	C52221	F1G1A1040006	0.1uF 10V	1	
	C52222	F1G1A1040006	0.1uF 10V	1	
	C52223	F1J0J106A020	10uF 6.3V	1	
	C52224	F1G1A1040006	0.1uF 10V	1	
	C52225	F1G1A1040006	0.1uF 10V	1	
	C52226	F1G1A1040006	0.1uF 10V	1	
	C52227	F1G1A1040006	0.1uF 10V	1	
	C52230	F1G1A1040006	0.1uF 10V	1	
	C52231	F1G1A1040006	0.1uF 10V	1	
	C52232	F1G1A1040006	0.1uF 10V	1	
	C52233	F1G1A1040006	0.1uF 10V	1	
	C52234	F1G1A1040006	0.1uF 10V	1	
	C52235	F1G1A1040006	0.1uF 10V	1	
	C52236	F1G1A1040006	0.1uF 10V	1	
	C52240	F1G1A1040006	0.1uF 10V	1	
	C52241	F1G1A1040006	0.1uF 10V	1	
	C52242	F1G1A1040006	0.1uF 10V	1	
	C52243	F1G1A1040006	0.1uF 10V	1	
	C52244	F1G1A1040006	0.1uF 10V	1	
	C52245	F1G1A1040006	0.1uF 10V	1	
	C52246	F1G1A1040006	0.1uF 10V	1	
	C52247	F1G1A1040006	0.1uF 10V	1	
	C52248	ECJ0EB0J105K	1uF 6.3V	1	
	C52249	ECJ0EB0J105K	1uF 6.3V	1	
	C53002	ECJ0EB0J105K	1uF 6.3V	1	
	C53006	F1G1A1040006	0.1uF 10V	1	
	C53007	F2G0J4700010	47uF 6.3V	1	
	C53008	ECJ0EB0J105K	1uF 6.3V	1	
	C53009	ECJ0EB0J105K	1uF 6.3V	1	
	C53010	ECJ0EB0J105K	1uF 6.3V	1	
	C53012	F1G1A1040006	0.1uF 10V	1	
	C53013	F1G1C1030007	0.01uF 16V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C53014	F2G0J4700010	47uF 6.3V	1	
	C53015	ECJ0EB0J105K	1uF 6.3V	1	
	C53016	F2G0J2200034	22uF 6.3V	1	
	C53022	EEHB0J331P	330uF 6.3V	1	
	C53023	F2G0J3300003	33uF 6.3V	1	
	C53030	F2G0J101A083	100uF 6.3V	1	
	C54001	F1H1H820A004	82pF 50V	1	
	C54003	F1H1C104A042	0.1uF 16V	1	
	C54005	ECHU1H102JX5	1000pF 50V	1	
	C54006	F2G1C470A096	47uF 16V	1	
	C54007	F1H1C104A042	0.1uF 16V	1	
	C54008	ECHU1H102JX5	1000pF 50V	1	
	C54009	F2G1C470A096	47uF 16V	1	
	C54012	F1H1H820A004	82pF 50V	1	
	C54014	F1H1H820A004	82pF 50V	1	
	C54015	F1H1C104A042	0.1uF 16V	1	
	C54016	F1H1C104A042	0.1uF 16V	1	
	C54022	F2G0J101A083	100uF 6.3V	1	
	C54026	F1H1H820A004	82pF 50V	1	
	C54029	F1H1H820A004	82pF 50V	1	
	C54030	F1H1C104A042	0.1uF 16V	1	
	C54031	F1H1C104A042	0.1uF 16V	1	
	C54032	F1J1A106A043	10uF 10V	1	
	C54032	F2G0J101A083	100uF 6.3V	1	
	C54033	F1H1H820A004	82pF 50V	1	
	C54034	F1J1A106A043	10uF 10V	1	
	C54034	F2G0J101A083	100uF 6.3V	1	
	C54035	F1G1A1040006	0.1uF 10V	1	
	C54035	F1H1H104A013	0.1uF 50V	1	
	C54036	F1G1A1040006	0.1uF 10V	1	
	C54036	F1H1H104A013	0.1uF 50V	1	
	C54037	F1G1A1040006	0.1uF 10V	1	
	C54037	F1H1H104A013	0.1uF 50V	1	
	C54038	F1H1H820A004	82pF 50V	1	
	C54039	F1G1A1040006	0.1uF 10V	1	
	C54039	F1H1H104A013	0.1uF 50V	1	
	C54040	F1H1C104A042	0.1uF 16V	1	
	C54041	F1H1C104A042	0.1uF 16V	1	
	C54042	F1G1A1040006	0.1uF 10V	1	
	C54043	F1G1A1040006	0.1uF 10V	1	
	C54044	F1G1A1040006	0.1uF 10V	1	
	C54045	F1G1A1040006	0.1uF 10V	1	
	C54046	F1H1H820A004	82pF 50V	1	
	C54047	F1G1C1030007	0.01uF 16V	1	
	C54047	F1H1H103A219	0.01uF 50V	1	
	C54048	F1J1A106A043	10uF 10V	1	
	C54048	F2G0J101A083	100uF 6.3V	1	
	C54049	ECHU1H102JX5	1000pF 50V	1	
	C54050	F1G1A1040006	0.1uF 10V	1	
	C54050	F1H1H104A013	0.1uF 50V	1	
	C54051	F1G1A1040006	0.1uF 10V	1	
	C54051	F1H1H104A013	0.1uF 50V	1	
	C54052	F1J1A106A043	10uF 10V	1	
	C54052	F2G0J101A083	100uF 6.3V	1	
	C54054	F1G1A1040006	0.1uF 10V	1	
	C54900	ECJ0EC1H221J	220pF 50V	1	
	C54901	ECJ0EC1H221J	220pF 50V	1	
	C54902	F1G1A1040006	0.1uF 10V	1	
	C54903	F1H0J1050013	1uF 6.3V	1	
	C54904	F1J0J106A020	10uF 6.3V	1	
	C54905	F1G1A1040006	0.1uF 10V	1	
	C54906	F1J0J106A020	10uF 6.3V	1	
	C54907	F1G1C1030007	0.01uF 16V	1	
	C54908	F1G1A1040006	0.1uF 10V	1	
	C54909	F1J0J106A020	10uF 6.3V	1	
	C54910	F1H0J1050013	1uF 6.3V	1	
	C54911	F1H0J1050013	1uF 6.3V	1	
	C55001	F1H1C104A042	0.1uF 16V	1	
	C55002	F1H1C104A042	0.1uF 16V	1	
	C55004	ECJ1VB1C474K	0.47uF 16V	1	
	C55005	ECJ1VB1C474K	0.47uF 16V	1	
	C55006	ECJ1VB1C474K	0.47uF 16V	1	
	C55007	ECJ1VB1C474K	0.47uF 16V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C55011	F2G0J3311A083	330uF 6.3V	1	
	C55013	F1G1A1040006	0.1uF 10V	1	
	C55015	F2G1C1010043	100uF 16V	1	
	C55016	F1H1C104A042	0.1uF 16V	1	
	C55017	F1J1A106A024	10uF 10V	1	
	C55018	F1G1E1020001	1000pF 25V	1	
	C55020	F1G1E3320001	3300pF 25V	1	
	C55021	F2G0J221A184	220uF 6.3V	1	
	C55022	ECJ3YB1C106M	10uF 16V	1	
	C55023	F1J0J225A004	2.2uF 6.3V	1	
	C55024	F1H1C104A042	0.1uF 16V	1	
	C55025	F1J0J225A004	2.2uF 6.3V	1	
	C55026	F1G1A1040006	0.1uF 10V	1	
	C55027	F1J0J225A004	2.2uF 6.3V	1	
	C55028	F1J1A106A024	10uF 10V	1	
	C55029	F1G1A1040006	0.1uF 10V	1	
	C55030	F1G1A1040006	0.1uF 10V	1	
	C55033	F1G1E1020001	1000pF 25V	1	
	C55034	F1G1E1020001	1000pF 25V	1	
	C55072	ECJ0EB0J105M	1uF 6.3V	1	
	C55075	ECJ0EB0J105M	1uF 6.3V	1	
	C55123	ECJ0EC1H221J	220pF 50V	1	
	C55124	ECJ0EC1H221J	220pF 50V	1	
	C55128	ECJ0EB1A823K	0.082uF 10V	1	
	C55129	F1G1A1040006	0.1uF 10V	1	
	C55130	F1G1A1040006	0.1uF 10V	1	
	C55131	F1G1A1040006	0.1uF 10V	1	
	C55132	F1G1A1040006	0.1uF 10V	1	
	C55133	F1G1C8220002	8200pF 16V	1	
	C55134	F1J0J225A004	2.2uF 6.3V	1	
	C55135	F1G1A1040006	0.1uF 10V	1	
	C55136	F1G1A1040006	0.1uF 10V	1	
	C55137	F1G1A1040006	0.1uF 10V	1	
	C55138	F1G1A333A013	0.033uF 10V	1	
	C55139	F1G1A1040006	0.1uF 10V	1	
	C55140	F1G1A1040006	0.1uF 10V	1	
	C55142	F1J0J225A004	2.2uF 6.3V	1	
	C55143	F1G1A1040006	0.1uF 10V	1	
	C55150	F1J1C475A059	4.7uF 16V	1	
	C55151	F1G1A1040006	0.1uF 10V	1	
	C55152	F1G1E3310001	330pF 25V	1	
	C55153	F1G1E3310001	330pF 25V	1	
	C55154	F1G1A104A012	0.1uF 10V	1	
	C55155	F1G1E1020001	1000pF 25V	1	
	C55156	F1G1E1020001	1000pF 25V	1	
	C55157	ECJ0EB0J105K	1uF 6.3V	1	
	C55158	F1G1E1040001	0.1uF 25V	1	
	C55159	F1G1E1040001	0.1uF 25V	1	
	C55160	F1G1E1020001	1000pF 25V	1	
	C55161	F1G1E1020001	1000pF 25V	1	
	C55162	F1G1C1030007	0.01uF 16V	1	
	C55163	F1G1A104A012	0.1uF 10V	1	
	C55164	F1H0J4750005	0.47uF 6.3V	1	
	C55165	F1G1A104A012	0.1uF 10V	1	
	C55166	F1G1A1040006	0.1uF 10V	1	
	C55167	F1G1A1040006	0.1uF 10V	1	
	C55168	F1G1A1040006	0.1uF 10V	1	
	C55169	F1G1E1520001	1500pF 25V	1	
	C55170	F1G1E1520001	1500pF 25V	1	
	C55171	F1G1E1520001	1500pF 25V	1	
	C55172	F1J1C475A059	4.7uF 16V	1	
	C55173	F1G1C1030007	0.01uF 16V	1	
	C55174	F1H1C104A042	0.1uF 16V	1	
	C55175	F1G1E6810001	680pF 25V	1	
	C55176	F1G1E6810001	680pF 25V	1	
	C55177	F1G1E6810001	680pF 25V	1	
	C55178	F1G1E6810001	680pF 25V	1	
	C55182	F1G1E4720002	4700pF 25V	1	
	C55183	F1G1E4720002	4700pF 25V	1	
	C55184	F1G1E4720002	4700pF 25V	1	
	C55185	F1G1E4720002	4700pF 25V	1	
	C55186	F1J1C475A059	4.7uF 16V	1	
	C55187	F1G1A1040006	0.1uF 10V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C55189	ECJ0EB0J105K	1uF 6.3V	1	
	C55204	F1G1A1040006	0.1uF 10V	1	
	C55241	F1G1A1040006	0.1uF 10V	1	
	C55242	F1H1C683A087	0.068uF 16V	1	
	C56001	F1H1A105A028	1uF 10V	1	
	C56002	F1J1A2250011	2.2uF 10V	1	
	C56003	F1J0J106A014	10uF 6.3V	1	
	C56004	F1H1A105A028	1uF 10V	1	
	C56005	F1G1E1020001	1000pF 25V	1	
	C56006	F1G1A1040006	0.1uF 10V	1	
	C56007	F1G1A1040006	0.1uF 10V	1	
	C56008	F1G1A1040006	0.1uF 10V	1	
	C56009	F1G1A1040006	0.1uF 10V	1	
	C56010	F1G1A1040006	0.1uF 10V	1	
	C56011	F1G1A1040006	0.1uF 10V	1	
	C56012	F1G1A1040006	0.1uF 10V	1	
	C56013	F1G1A1040006	0.1uF 10V	1	
	C56014	F1G1A1040006	0.1uF 10V	1	
	C56015	F1G1A1040006	0.1uF 10V	1	
	C56016	F1G1A1040006	0.1uF 10V	1	
	C56017	F1G1A1040006	0.1uF 10V	1	
	C56019	F1G1A1040006	0.1uF 10V	1	
	C56020	F1G1A1040006	0.1uF 10V	1	
	C56021	F1G1A1040006	0.1uF 10V	1	
	C56022	F1G1A1040006	0.1uF 10V	1	
	C56024	F1G1A1040006	0.1uF 10V	1	
	C56025	F1G1A1040006	0.1uF 10V	1	
	C56026	F1G1A1040006	0.1uF 10V	1	
	C56027	F1G1A1040006	0.1uF 10V	1	
	C56028	F1G1A1040006	0.1uF 10V	1	
	C56031	F1G1A1040006	0.1uF 10V	1	
	C56032	F1G1A1040006	0.1uF 10V	1	
	C56033	F1G1E3310001	330pF 25V	1	
	C56034	ECJ0EC1H221J	220pF 50V	1	
	C56035	F1G1C1030007	0.01uF 16V	1	
	C56036	F1H1C105A097	1uF 16V	1	
	C56037	F1H1A105A028	1uF 10V	1	
	C56502	F1G1A1040006	0.1uF 10V	1	
	C56503	F1G1A1040006	0.1uF 10V	1	
	C56505	F1G1C1030007	0.01uF 16V	1	
	C56506	F1G1C1030007	0.01uF 16V	1	
	C56507	F1G0J105A022	1uF 6.3V	1	
	C56508	F2G0J2200034	22uF 6.3V	1	
	C56509	F1G1A1040006	0.1uF 10V	1	
	C56510	F1J0J106A014	10uF 6.3V	1	
	C56511	F1G1A1040006	0.1uF 10V	1	
	C56512	F1G1E1020001	1000pF 25V	1	
	C56513	F1G1E1020001	1000pF 25V	1	
	C56514	F1G1E1020001	1000pF 25V	1	
	C56515	F1G1E1020001	1000pF 25V	1	
	C56516	F1G1E1020001	1000pF 25V	1	
	C57001	F1G1A1040006	0.1uF 10V	1	
	C57002	EEEHB0J330R	33uF 6.3V	1	
	C57003	EEEHB0J330R	33uF 6.3V	1	
	C58009	F1G1E2220001	2200pF 25V	1	
	C58010	ECJ0EC1H221J	220pF 50V	1	
	C58011	ECJ0EC1H221J	220pF 50V	1	
	C58012	F1G1E2220001	2200pF 25V	1	
	C58013	F1H1A105A028	1uF 10V	1	
	C58015	F1G1E2220001	2200pF 25V	1	
	C58016	F1G1C153A039	0.015uF 16V	1	
	C58017	F1G1A473A013	0.047uF 10V	1	
	C58018	F1G1C153A039	0.015uF 16V	1	
	C58020	F1H1E223A047	0.022uF 25V	1	
	C58023	F1H1E223A047	0.022uF 25V	1	
	C58024	F1K1C1060001	10uF 16V	1	
	C58025	F1K1C1060001	10uF 16V	1	
	C58026	ECJ2FB1E105K	1uF 25V	1	
	C58027	ECJ2FB0J475K	4.7uF 6.3V	1	
	C58031	F1J0J106A014	10uF 6.3V	1	
	C58033	F1J0J106A014	10uF 6.3V	1	
	C58034	F1J0J106A014	10uF 6.3V	1	
	C58036	F1J0J106A014	10uF 6.3V	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	C58037	F1K1C1060001	10uF 16V	1	
	C58038	F1H1C104A042	0.1uF 16V	1	
	C58039	F1K1C1060001	10uF 16V	1	
	C58043	F1H1C104A042	0.1uF 16V	1	
	C58047	F1H1C104A042	0.1uF 16V	1	
	C58049	F1K1C1060001	10uF 16V	1	
	C58066	F1K1C1060001	10uF 16V	1	
	C58069	F1H1C104A042	0.1uF 16V	1	
	C58070	ECGCD0D151ER	150uF 2V	1	
	C58073	F1H1C104A042	0.1uF 16V	1	
	C58074	ECGCD0E121ER	120uF 2.5V	1	
	C58323	F1G1E3920001	3900pF 25V	1	
	C58324	F1G1E3920001	3900pF 25V	1	
	C59002	F1G1A1040006	0.1uF 10V	1	
	C59005	F1J0J226A014	22uF 6.3V	1	
	C59006	F1G1A1040006	0.1uF 10V	1	
	C59007	F1G1A1040006	0.1uF 10V	1	
	C59008	F1G1H101A566	100pF 50V	1	
	C59009	F1J0J226A014	22uF 6.3V	1	
	C59010	F1G1H2200001	22pF 50V	1	
	C59011	F1G1H2200001	22pF 50V	1	
	C59012	F1G1A1040006	0.1uF 10V	1	
	C59013	F1G1A1040006	0.1uF 10V	1	
	C59014	F1G1A1040006	0.1uF 10V	1	
	C59015	F1G1A1040006	0.1uF 10V	1	
	C59016	F1J0J226A014	22uF 6.3V	1	
	C59017	F1G1A1040006	0.1uF 10V	1	
	C59018	F1G1A1040006	0.1uF 10V	1	
	C59019	F1J0J106A014	10uF 6.3V	1	
	FL51301	F1H0J4740004	0.47uF 6.3V	1	
	FL56001	F1H0J4740004	0.47uF 6.3V	1	
	FL56002	F1H0J4740004	0.47uF 6.3V	1	
	FL56003	F1H0J4740004	0.47uF 6.3V	1	
	FL56004	F1H0J4740004	0.47uF 6.3V	1	
	FL57001	F1H0J4740004	0.47uF 6.3V	1	
	FL59001	F1H0J4740004	0.47uF 6.3V	1	

