

# Service Manual

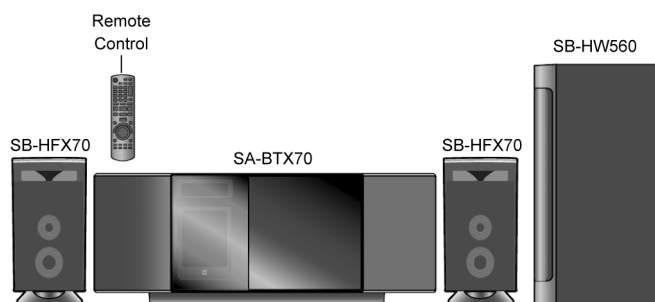
## Blu-ray Disc Home Theater Sound System



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  $\infty$

### 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.

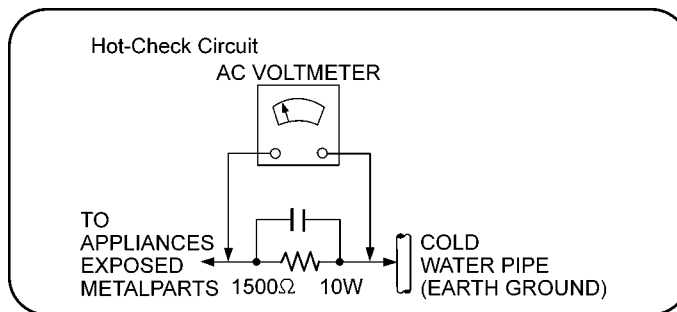


Figure 1

## 1.2. Before Repair and Adjustment

Disconnect AC power to discharge unit AC Capacitors as such (C5700, C5701, C5702, C5704, C5705) through a  $10\Omega$ , 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  $\sim 500$  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.

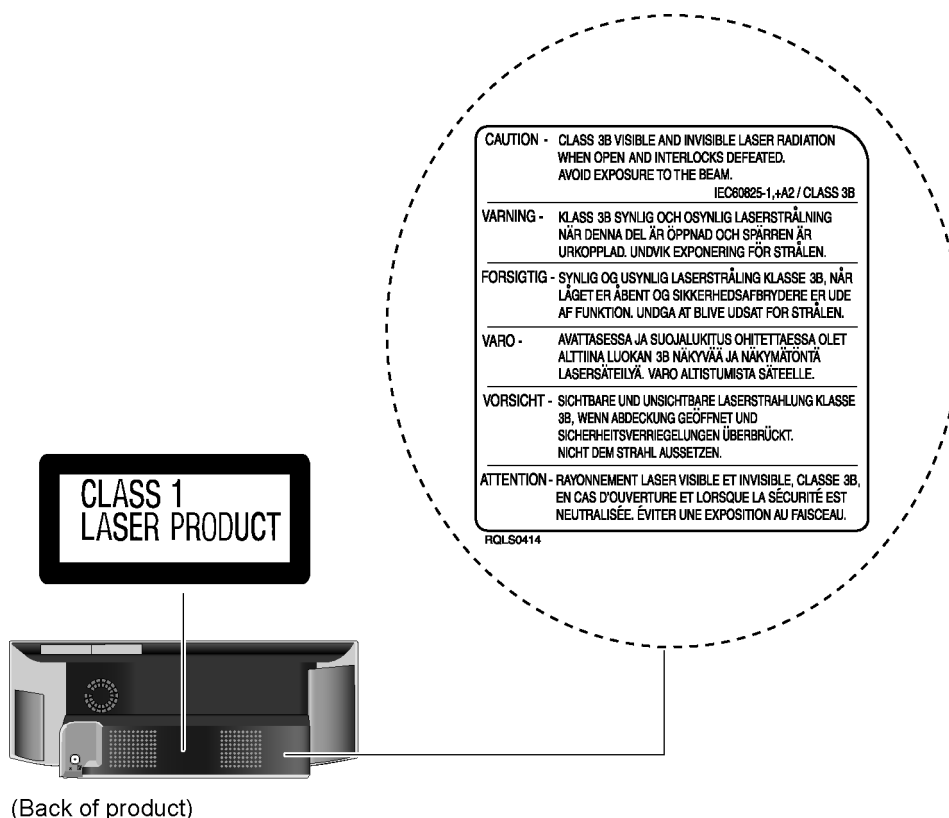
### Caution:

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  $\mu$ 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.<br>(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%

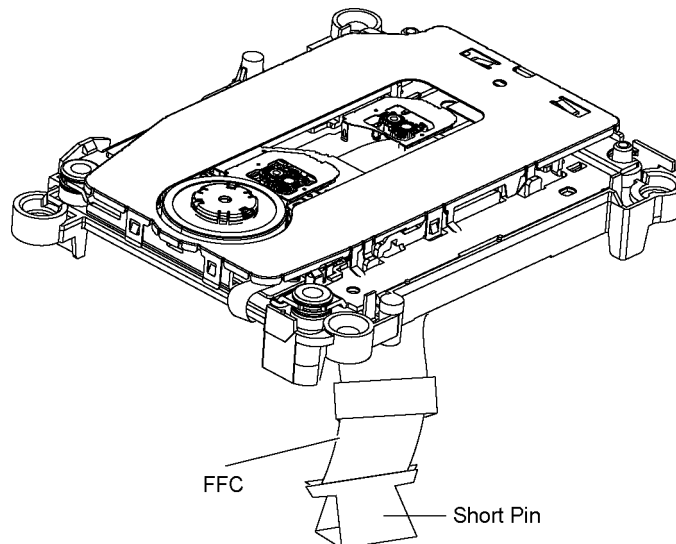
## 2.4. Handling Precautions for Traverse Unit

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

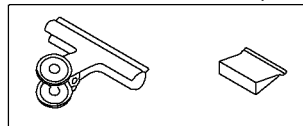
The laser diode in the optical pickup unit may be damaged due to electrostatic discharge generating from clothes or human body. Special care must be taken avoid caution to electrostatic discharge damage when servicing the laser diode.

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.

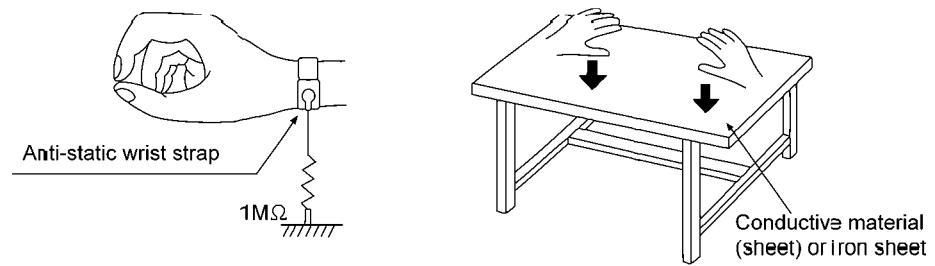


Figure 2

## 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 (W×H×D):          | 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<br>(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<br>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 <sup>*1</sup>  | SB-HFX60EG <sup>*1</sup>   |
| Subwoofer      | SB-HW560E-K <sup>*1</sup> | SB-HWX60EG-K <sup>*1</sup> |

Refer to their respective original service manuals for \*1

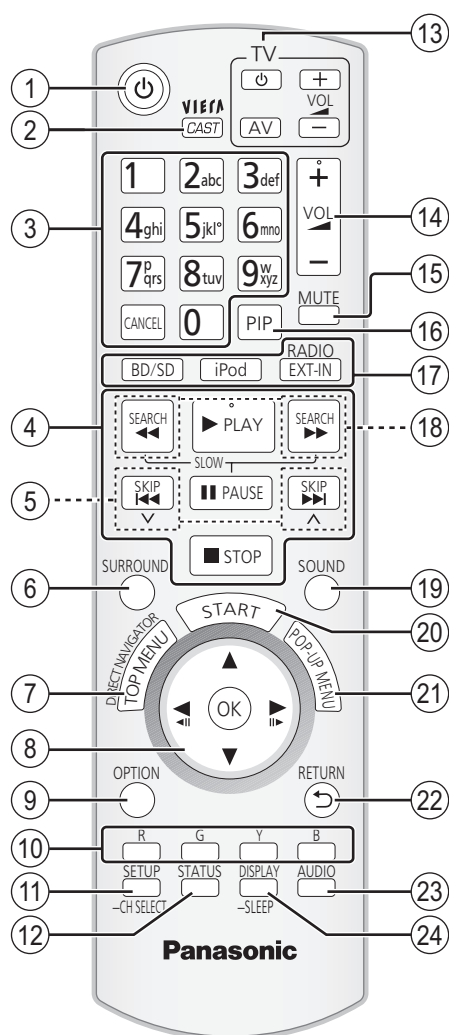
**BD Features:**

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

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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| Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Manufactured under license under U.S. Patent #s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,226,616; 6,487,535 & other U.S. and worldwide patents issued & pending.<br>DTS is a registered trademark and the DTS logos, Symbol, DTS-HD and DTS-HD Master Audio Essential are trademarks of DTS, Inc.<br>© 1996-2008 DTS, Inc. All Rights Reserved.                                                                                                                                                                                                                                                                                        |
| U.S. Patent Nos. 6,836,549; 6,381,747; 7,050,698; 6,516,132; and 5,583,936.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| 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 <a href="http://www.mpegla.com">http://www.mpegla.com</a> . |
| 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

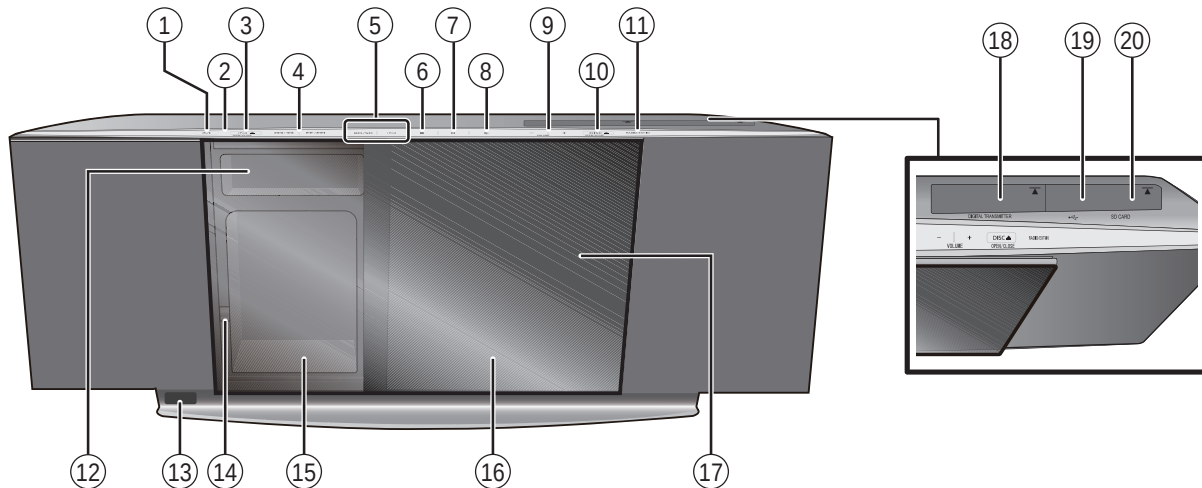
# 5 Location of Controls and Components

## 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**

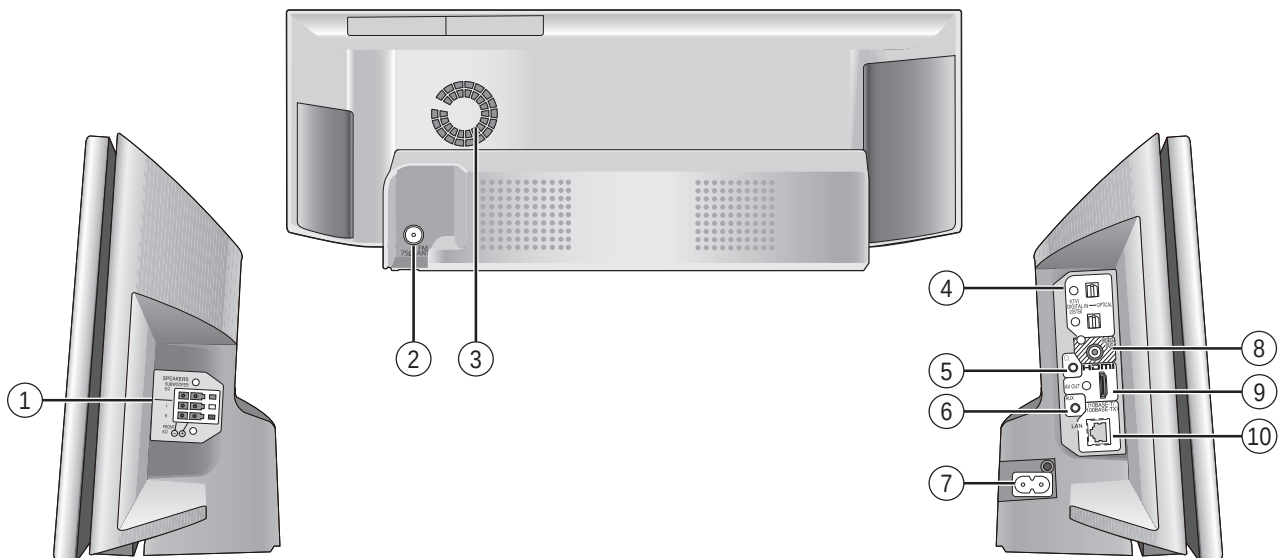
⑰ **Sliding door**

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**

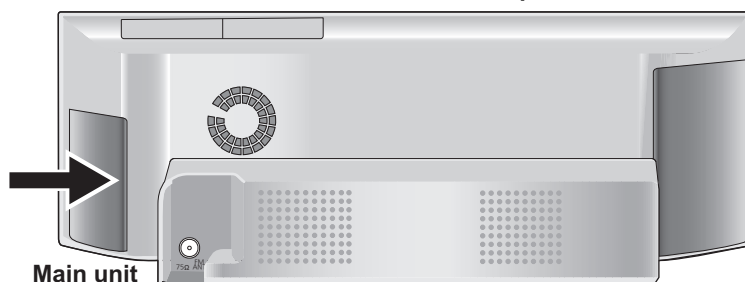
⑧ **VIDEO OUT terminal**

⑨ **HDMI AV OUT terminal**

⑩ **LAN port**

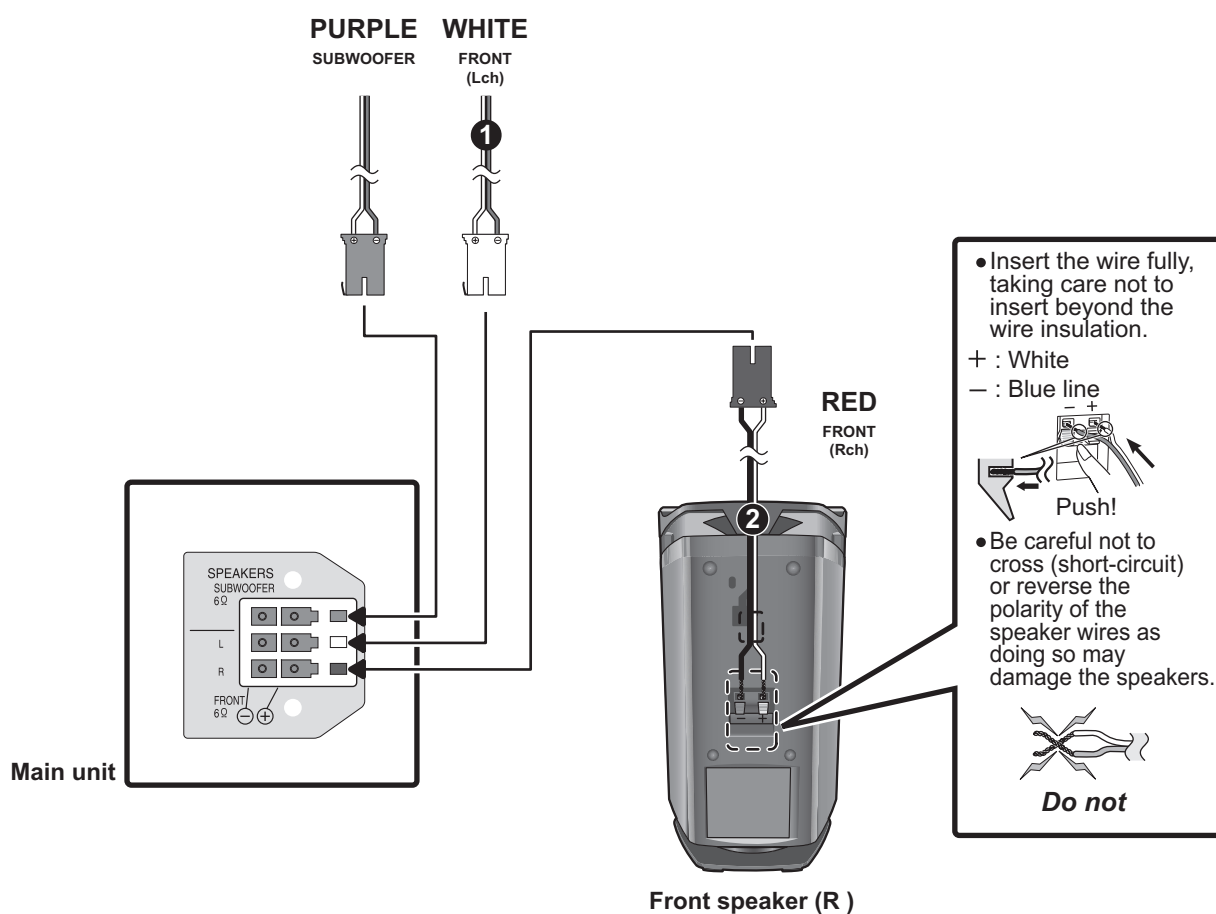
## 5.3. Speaker Connections

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

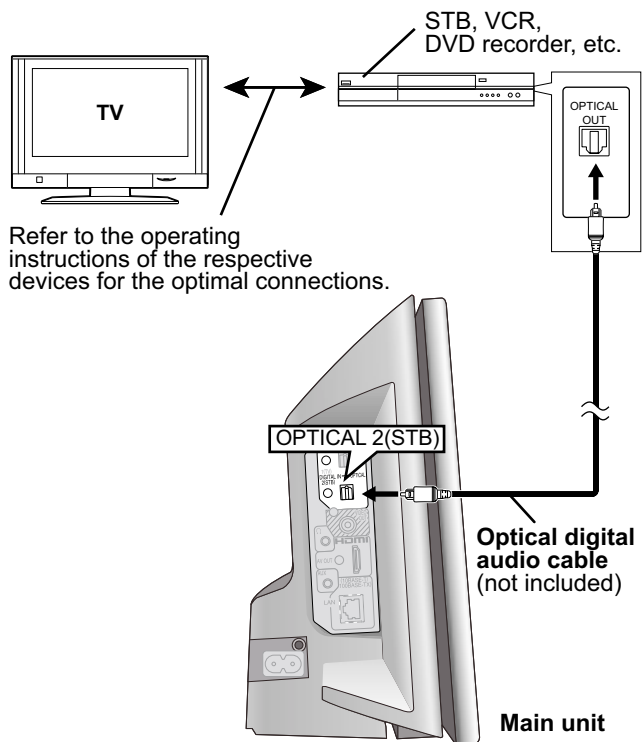
- 1 Speaker cable for front speaker (L) (White)
- 2 Speaker cable for front speaker (R) (Red)



## 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.**

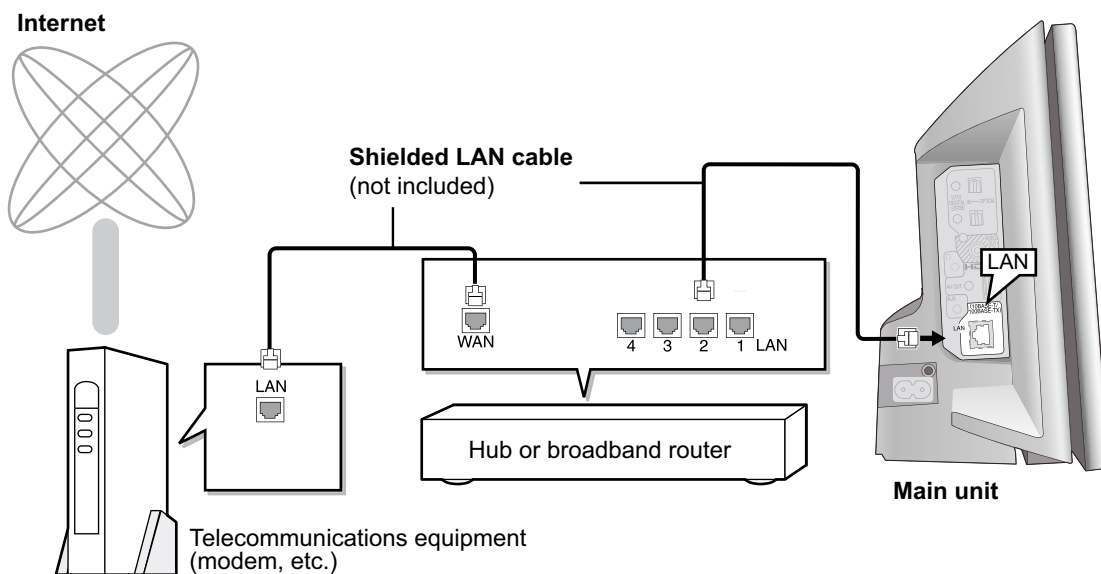


- This unit can decode the surround signal from the Set Top Box (Satellite receiver, Cable box, etc.). Press [EXT-IN] several times to select D-IN 2 (DIGITAL IN 2\*).
  - \* (CABLE/SAT) is displayed next to DIGITAL IN 2 when set for CABLE/SAT AUDIO input.
- For connections between this unit and the TV, 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 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| <b>BD-Video</b><br>                                                                                       | High Definition (HD) movie and music discs<br><ul style="list-style-type: none"> <li>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.</li> </ul>  <ul style="list-style-type: none"> <li>Discs supporting BONUSVIEW (BD-ROM Profile 1 version 1.1/Final Standard Profile) that allows Picture-in-Picture functions to be used.</li> </ul> BONUSVIEW™ | <b>BD-V</b>  |
| <b>DVD-Video</b><br><br> | High quality movie and music discs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>DVD-V</b> |
| <b>CD</b><br>                                                                                             | Compact Discs (CDs) that contain audio and music<br><ul style="list-style-type: none"> <li>Operation and sound quality of CDs that do not conform to CD-DA specifications (copy control CDs, etc.) cannot be guaranteed.</li> </ul>                                                                                                                                                                                                                                                                                                                              | <b>CD</b>    |

### 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                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| <b>BD-RE</b><br>                                                                                                               | <ul style="list-style-type: none"> <li>Version 3 of the BD-RE Recording Format</li> <li>JPEG format</li> </ul>                                                                                                                                                                              | <b>BD-V</b><br><br><b>JPEG</b>                                                                       |
| <b>BD-R</b><br>                                                                                                                | <ul style="list-style-type: none"> <li>Version 2 of the BD-R Recording Format</li> </ul>                                                                                                                                                                                                    | <b>BD-V</b>                                                                                          |
| <b>DVD-RAM</b><br>                                                                                                             | <ul style="list-style-type: none"> <li>Version 1.1 of the DVD Video Recording Format</li> <li>JPEG format</li> <li>AVCHD format</li> </ul>                                                                                                                                                  | <b>DVD-V</b><br><br><b>JPEG</b><br><b>AVCHD</b>                                                      |
| <b>DVD-R/RW</b><br><b>Finalized</b><br><br> | <ul style="list-style-type: none"> <li>DVD-Video Format</li> <li>Version 1.1 of the DVD Video Recording Format</li> <li>MP3 format (DVD-RW is not supported)</li> <li>JPEG format (DVD-RW is not supported)</li> <li>AVCHD format</li> <li>DivX format (DVD-RW is not supported)</li> </ul> | <b>DVD-V</b><br><b>DVD-VR</b><br><br><b>MP3</b><br><br><b>JPEG</b><br><br><b>JPEG</b><br><b>DivX</b> |
| <b>DVD-R DL</b><br><b>Finalized</b><br>                                                                                        | <ul style="list-style-type: none"> <li>DVD-Video Format</li> <li>Version 1.2 of the DVD Video Recording Format</li> <li>MP3 format</li> <li>JPEG format</li> <li>AVCHD format</li> <li>DivX format</li> </ul>                                                                               | <b>DVD-V</b><br><b>DVD-VR</b><br><br><b>MP3</b><br><b>JPEG</b><br><b>AVCHD</b><br><b>DivX</b>        |
| <b>+R/+RW/+R DL</b><br><b>Finalized</b>                                                                                                                                                                           | <ul style="list-style-type: none"> <li>+VR (+R/+RW Video Recording) Format</li> <li>AVCHD format</li> </ul>                                                                                                                                                                                 | <b>DVD-V</b><br><br><b>AVCHD</b>                                                                     |
| <b>CD-R/RW</b><br><b>Finalized</b>                                                                                                                                                                                | <ul style="list-style-type: none"> <li>CD-DA format</li> <li>MP3 format</li> <li>JPEG format</li> <li>DivX format</li> </ul>                                                                                                                                                                | <b>CD</b><br><b>MP3</b><br><b>JPEG</b><br><b>DivX</b>                                                |

- 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 |
|-------------------------------------------------|----------------|--------------|
| <b>SD Memory Card*</b><br>(from 8 MB to 2 GB)   | • JPEG format  | <b>JPEG</b>  |
| <b>SDHC Memory Card</b><br>(from 4 GB to 32 GB) | • AVCHD format | <b>AVCHD</b> |
|                                                 | • MPEG2 format | <b>MPEG2</b> |

\* 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 |
|-------------------|---------------|--------------|
| <b>USB device</b> | • MP3 format  | <b>MP3</b>   |
|                   | • JPEG format | <b>JPEG</b>  |
|                   | • DivX format | <b>DIVX</b>  |

#### 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<br>(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<br>ID3 is a tag embedded in MP3 track to provide information about the track.<br>This unit supports the versions listed above but only titles and the names of artists can be displayed.<br>● 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.<br>Thawing Time: approx. 2 sec. (7 M pixels)<br>● 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

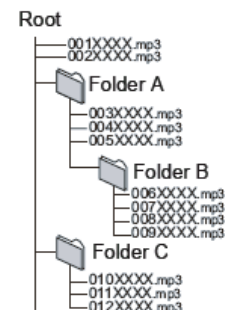
\*2 \*\*\*: from 100 to 999

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.

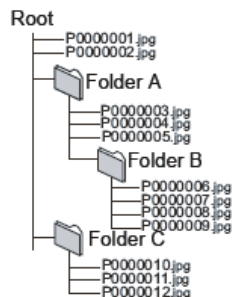


### Structures of still picture (JPEG) folders

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

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

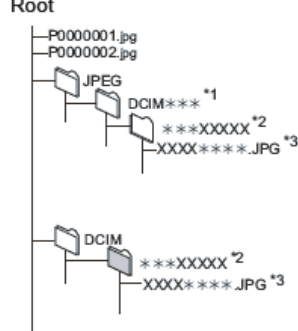
e.g.



#### in BD-RE/DVD-RAM

● Folder structure is not displayed.

e.g.

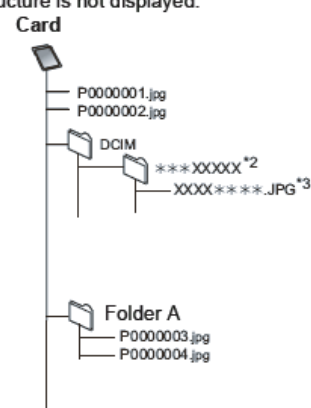


#### in SD card

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 |                                                   |

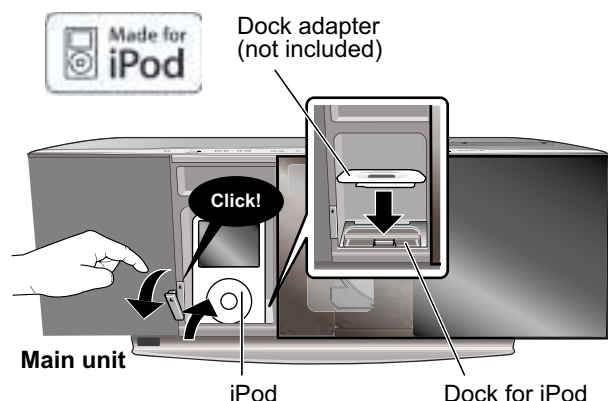
## 5.7. Using the iPod

### 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)

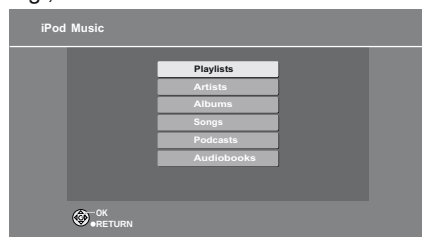
#### ❶ Press [iPod] to select IPOD .

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.

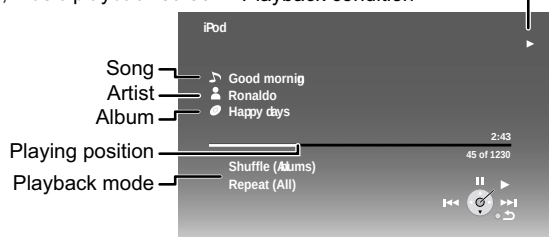
e.g., music main menu screen



#### ❷ 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.

#### ❶ Press [iPod] to select IPOD .

#### ❷ 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.

#### ❸ Switch the TV input to video in.

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

#### ❹ 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                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Play Mode</b> | <b>Shuffle*1</b> <ul style="list-style-type: none"> <li>• Off: Cancel</li> <li>• Songs: Play all songs on iPod in random order.</li> <li>• Albums: Play all songs on album in random order.</li> </ul> <b>Repeat</b> <ul style="list-style-type: none"> <li>• Off: Cancel</li> <li>• One: Play a single song/video repeatedly.</li> <li>• All: Play all songs/videos from selected items (e.g., Playlists, Albums, etc.) repeatedly.</li> </ul> |

\*1 For music playback only.

#### ❶ Press [START].

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

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

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

#### ❺ 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]                             | <ul style="list-style-type: none"> <li>• Press [▶PLAY] to restart play.</li> <li>• Playback start position may not be stored in memory in certain cases.</li> </ul> |
| [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

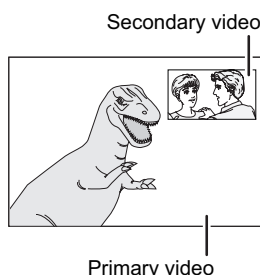
Press [PIP].

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.

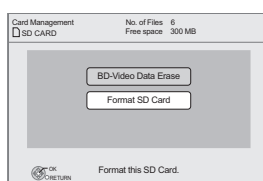
#### Formatting SD cards/Deleting data

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].



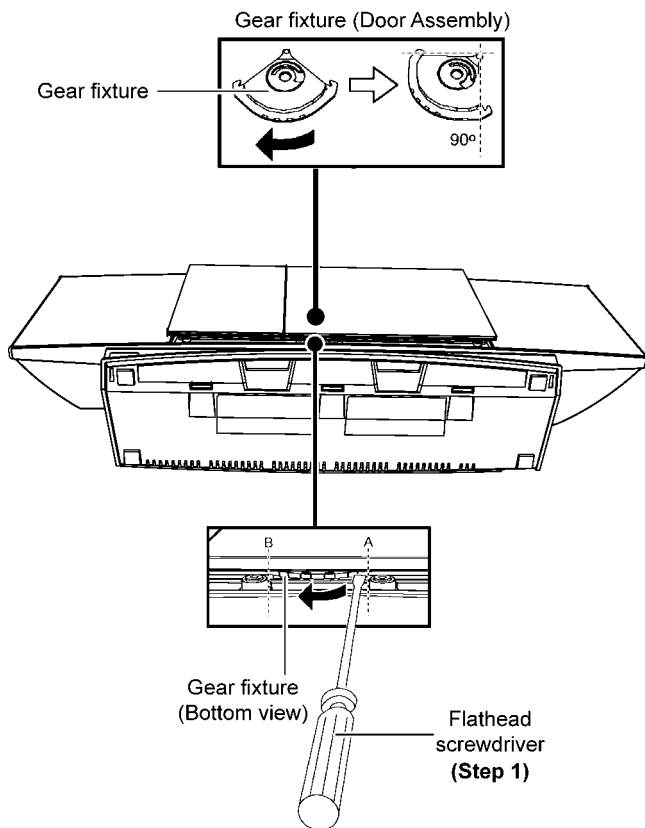
NOTE

- 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.

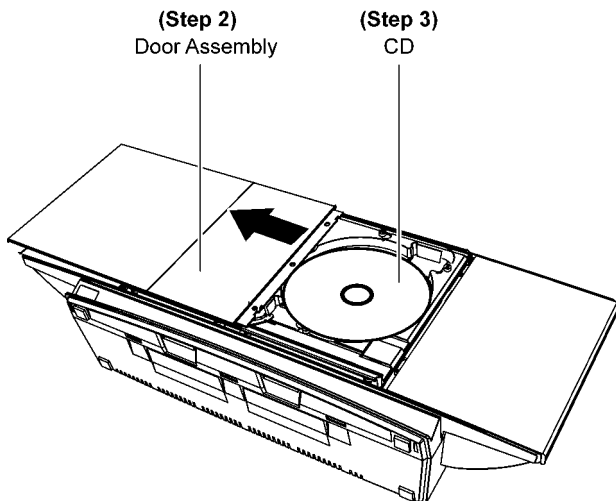
## 6 Operating Instructions

### 6.1. Door Assembly Unit Jam

#### 6.1.1. Removing the CD



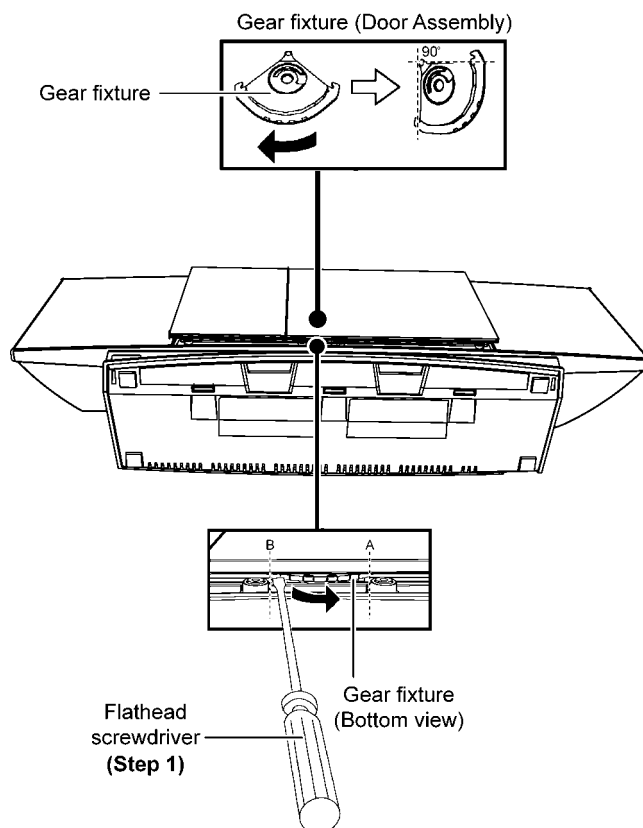
**Step 1** Insert a flathead screwdriver into the hole behind the Door Assembly and push the gear fixture from point A to B.



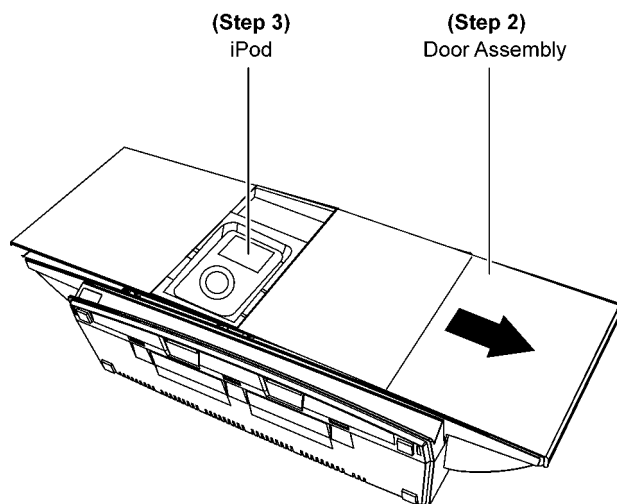
**Step 2** Push the Door Assembly as arrow shown until the CD is fully in sight.

**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                          | <div>SET *</div> <p>* is remote controller code of the main unit.<br/>Display for 5 seconds.</p>                                                        |
| U59        | Abnormal inner temperature detected                                               | Display appears when the drive temperature exceeds 70 C.<br>The power is turned off forcibly.<br>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.)<br>The event is saved in memory as well. | No display                          | <div>U59</div> <p>U59 is displayed for 30 minutes.</p>                                                                                                  |
| U71        | HDMI incompatible error (HDCP incompatible)                                       | Display this error when the equipment (compatible with DVI such as TV, amplifier etc.) connected to the unit by HDMI is incompatible with HDCP.<br>*HDCP=High-bandwidth Digital Content Protection                                                                                                                             | No display                          | <div>U71</div>                                                                                                                                          |
| U72        | HDMI connection error (communication error)                                       | This error is displayed when there are any communication problems with the unit and the equipments (TV, amplifier etc.) connected to the unit by HDMI. (or when there is a problem with the HDMI cable)                                                                                                                        | No display                          | <div>U72</div> <p>U72 display disappears when error has been solved by Power OFF/ON of connecting equipment or by inserting/removing of HDMI cable.</p> |
| U73        | HDMI connection error (authentication error)                                      | when authentication error occurs while the equipments (TV, amplifier etc.) are connected by HDMI. (or when there is a problem with the HDMI cable)                                                                                                                                                                             | No display                          | <div>U73</div> <p>U73 display disappears when error has been solved by Power OFF/ON of connecting equipment or by inserting/removing of HDMI cable.</p> |
| F99        | Hang-up                                                                           | Displayed when communication error has occurred between Main microprocessor and Timer microprocessor (IC7501).                                                                                                                                                                                                                 | No display                          | <div>F99</div> <p>Displayed is left until the [POWER] key is pressed.</p>                                                                               |
| H19        | Inoperative fan motor                                                             | When inoperative fan motor is detected after powered on, the power is turned off automatically.<br>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.<br>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.<br>*The data format is not supported, although the media type is supported.<br>*Exceptionally in case of the disc is dirty.                                                                                                                        | This disc is incompatible.          | <div>UNSUPPORT</div>                                                                                                                                    |
| NO READ    | Disc read error                                                                   | *A disc is flawed or dirty.<br>*A poor quality failed to start.<br>*The track information could not be read.                                                                                                                                                                                                                   | Cannot read. Please check the disc. | <div>NOREAD</div>                                                                                                                                       |
| HARD ERR   | Drive error                                                                       | The drive detected a hard error.                                                                                                                                                                                                                                                                                               | DVD drive error.                    | <div>HARD ERR</div> <p>The character indication flows sideways.</p>                                                                                     |

### 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.<br>*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.<br><b>BYE</b> is displayed and power will be turned off.                                                                                                                                                                      | No display                          | PLEASE WAIT<br>The character indication flows sideways. |
| UNFORM-MAT  | 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 <b>Level 8</b> .                                                                                                                   | 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.<br>*Details are described in <b>7.3.1. Service Mode at a glance</b> .                                                                            | 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.<br>Screen display: [The player's history data has been cleared] is displayed for five seconds.                                        | *****<br>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.<br>The tray will open and unit will shift to P-off mode.<br>While Demonstration Lock is being set, this Forced disc eject function is not accepted. | The display before execution leaves.<br>***** | 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<br>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.<br><b>NOTE1:</b><br>If Unit has not turned into Aging mode by operations shown above, execute TEST MODE once and re-execute operation shown above.<br>(*All the main unit's parameters include tuner are initialized by TEST mode.)<br><b>NOTE2:</b><br>If the unit has hung-up because of pressing keys for over 10 seconds, once turn off the power, and re-execute this command.<br>*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 <b>Main unit initialization</b> of service mode. | *When lock the tray.<br><div>LOCK</div><br><b>LOCK</b> is displayed for 3 seconds.                                                                                                                            | When the power is on, press [PLAY] and [OPEN/CLOSE] keys simultaneously for 5 seconds.<br><br><b>Note:</b><br>When a disc is not in tray, this setting is not effective. |
|                            |                                                                                                                                                                 | *When unlock the tray.<br><div>UNLOCK</div><br><b>UNLOCK</b> 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.<br><div>LOCK</div><br>Display <b>LOCK</b> 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.<br><div>*****</div>                                                                                                                                                      | 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.                                                                                                                 | <b>FL Display</b><br>(i) <div>M-XXXX</div><br>-> Main Firmware Version<br>(ii) <div>S-YYYY</div><br>-> Sub Firmware Version<br>(iii) <div>AA/BB/CC</div><br>-> Date<br>(iv) <div>ZZZZZZ</div><br>-> 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<br>(Remote controller key)   |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| Mode name           | Description                                                                                                                                                                                                                        |                                                                                                                                                                                                                                |                                            |
| Release Items       | Item of Service Mode executing is cancelled.                                                                                                                                                                                       | <div>SERVICE</div>                                                                                                                                                                                                             | Press [0] [0] or [Return] in service mode. |
| Error Code Display  | Last Error Code of U/H/F held by Timer is displayed on FL.<br>*Details are described in <b>7.1.1. Self-Diagnosis Functions</b> .                                                                                                   | <div>♣ □ □</div><br>* ♣ shows U/H/F.<br>□ □ shows number.<br>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.)<br>2. Main firm version (displayed for 5 sec.)<br>3. Timer firm version (displayed for 5 sec.)<br>4. Drive firm version (displayed for 5 sec.)<br>5. ROM correction version (left displayed) | 1. <div>NO\$%</div><br>\$: Region of DVD<br>(Example: 1,2.....)<br>%: Region of BD<br>(Example: A,B.....)<br>2. <div>*****</div><br>3. <div>*****</div><br>4. <div>*****</div><br>5. <div>***</div><br>* are version displays. | Press [0] [2] in service mode              |
| Drive check         | Simple quality of BD/DVD drive.                                                                                                                                                                                                    | When BD/DVD drive is OK<br><div>DRV OK</div><br>When BD/DVD drive is NG<br><div>DRV NG</div><br>*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. | <div>*****</div> <p>(***** is the used time display in hour.<br/>Laser used time of BD/DVD/CD in Playback/Recording mode is Counted.</p> <p>1. Blu-ray Playback:</p> <div>BP 0</div> <p>2. Blu-ray Recording:</p> <div>BR 0</div> <p>3. DVD Playback:</p> <div>DP9999</div> <p>4. DVD Recording:</p> <div>DR 0</div> <p>5. CD:</p> <div>CD 0</div> | 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. | <p>1. Error Number is displayed for 5 seconds.</p> <div>NO ****</div> <p>2. Time when the error has occurred is display for 5 seconds.</p> <div>DDhhmm</div> <p>DD : Day<br/>hh : Hour<br/>mm : Minute</p> <p>3. Last drive error (1/2) is displayed for 5 seconds.</p> <div>*****</div> <p>00 : Bad disc<br/>03 : Bad disc<br/>04 : Bad disc or drive malfunction</p> <p>4. Last drive error (2/2) is displayed for five seconds.</p> <div>*****</div> <p>5. Error occurring disc type is displayed for 5 seconds.</p> <p>DVD-RW</p> <div>DVDRW</div> <p>CD-R</p> <div>CDR</div> <p>CD-RW</p> <div>CDRW</div> <p>DVD+R</p> <div>DVDPR</div> <p>DVD+RW</p> <div>DVDPRW</div> <p>BD-ROM</p> <div>BDRW</div> | Press [4] [2] in service mode. |

7.3.4. Service Mode Table 4

| Item      |               | FL display                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Key operation           |         |   |    |   |               |   |               |   |       |         |        |                                                                    |
|-----------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------|---|----|---|---------------|---|---------------|---|-------|---------|--------|--------------------------------------------------------------------|
| Mode name | Description   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | (Remote controller key) |         |   |    |   |               |   |               |   |       |         |        |                                                                    |
|           |               | <div>BD-RE</div> <div>BDRE</div> <div>BD-R</div> <div>BDR</div> <div>DVD ROM</div> <div>DVD</div> <div>CD</div> <div>CD</div> <div>RAM (2.6GB)</div> <div>RAM26</div> <div>RAM (4.7GB)</div> <div>RAM47</div> <div>DVD-R</div> <div>DVDR</div> <div>Others</div> <div>MEDIA*</div> <div>* is displayed the respoced value from RTSC.</div> <div>6. Disc maker ID is displayed for 5 seconds.</div> <div>*****</div> <div>7. Factor of drive error (hexadecimal) occurring is left displayed.</div> <div>* * + + □ □</div> <div>* * : Error occurring operation code (This is not used)</div> <div>+ + : Error occurring disc type</div> <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<br>(Remote controller key)                                                                                        |        |  |  |                  |                           |                       |    |    |      |            |    |    |      |            |    |    |      |        |    |    |      |        |    |    |         |            |    |    |         |            |    |    |         |        |    |    |         |        |    |    |      |            |    |    |      |            |    |    |      |        |    |    |      |        |    |    |         |            |    |    |         |            |    |    |         |        |    |    |         |        |  |
|-----------------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--------|--|--|------------------|---------------------------|-----------------------|----|----|------|------------|----|----|------|------------|----|----|------|--------|----|----|------|--------|----|----|---------|------------|----|----|---------|------------|----|----|---------|--------|----|----|---------|--------|----|----|------|------------|----|----|------|------------|----|----|------|--------|----|----|------|--------|----|----|---------|------------|----|----|---------|------------|----|----|---------|--------|----|----|---------|--------|--|
| Mode name                   | Description                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                 |        |  |  |                  |                           |                       |    |    |      |            |    |    |      |            |    |    |      |        |    |    |      |        |    |    |         |            |    |    |         |            |    |    |         |        |    |    |         |        |    |    |      |            |    |    |      |            |    |    |      |        |    |    |      |        |    |    |         |            |    |    |         |            |    |    |         |        |    |    |         |        |  |
|                             |                                                                                                        | <p>□□: Error occurring disc situation</p> <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                                                                                                           |        |  |  |                  |                           |                       |    |    |      |            |    |    |      |            |    |    |      |        |    |    |      |        |    |    |         |            |    |    |         |            |    |    |         |        |    |    |         |        |    |    |      |            |    |    |      |            |    |    |      |        |    |    |      |        |    |    |         |            |    |    |         |            |    |    |         |        |    |    |         |        |  |
| 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                                                                                                                          |        |  |  |                  |                           |                       |    |    |      |            |    |    |      |            |    |    |      |        |    |    |      |        |    |    |         |            |    |    |         |            |    |    |         |        |    |    |         |        |    |    |      |            |    |    |      |            |    |    |      |        |    |    |      |        |    |    |         |            |    |    |         |            |    |    |         |        |    |    |         |        |  |
| CEC (H) output              | Check of the CEC terminal high output of HDMI.                                                         | <p>When the check is OK</p> <div>CECHOK</div> <p>When the check is NG</p> <div>CECHNG</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Press [5] [5] in service mode.                                                                                                  |        |  |  |                  |                           |                       |    |    |      |            |    |    |      |            |    |    |      |        |    |    |      |        |    |    |         |            |    |    |         |            |    |    |         |        |    |    |         |        |    |    |      |            |    |    |      |            |    |    |      |        |    |    |      |        |    |    |         |            |    |    |         |            |    |    |         |        |    |    |         |        |  |
| CEC (L) output              | Check of the CEC terminal low output of HDMI.                                                          | <p>When the check is OK</p> <div>CECLOK</div> <p>When the check is NG</p> <div>CECLNG</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Press [5] [6] in service mode.                                                                                                  |        |  |  |                  |                           |                       |    |    |      |            |    |    |      |            |    |    |      |        |    |    |      |        |    |    |         |            |    |    |         |            |    |    |         |        |    |    |         |        |    |    |      |            |    |    |      |            |    |    |      |        |    |    |      |        |    |    |         |            |    |    |         |            |    |    |         |        |    |    |         |        |  |
| Tray OPEN/CLOSE Test        | The DVD drive tray is opened and closed repeatedly.                                                    | <div>*****</div> <p>* is number of open/close cycle times.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Press [9] [1] in service mode<br>*When releasing this mode, press the [POWER] button of Remote Controller more than 10 seconds. |        |  |  |                  |                           |                       |    |    |      |            |    |    |      |            |    |    |      |        |    |    |      |        |    |    |         |            |    |    |         |            |    |    |         |        |    |    |         |        |    |    |      |            |    |    |      |            |    |    |      |        |    |    |      |        |    |    |         |            |    |    |         |            |    |    |         |        |    |    |         |        |  |
| Delete the Laser Used Time  | Laser used time stored in the memory of the unit is deleted.                                           | <div>CLR</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Press [9] [5] in service mode.                                                                                                  |        |  |  |                  |                           |                       |    |    |      |            |    |    |      |            |    |    |      |        |    |    |      |        |    |    |         |            |    |    |         |            |    |    |         |        |    |    |         |        |    |    |      |            |    |    |      |            |    |    |      |        |    |    |      |        |    |    |         |            |    |    |         |            |    |    |         |        |    |    |         |        |  |
| Delete the Last Drive Error | Delete the Last Drive Error information stored on the DVD Drive.                                       | <div>CLR</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Press [9] [6] in service mode.                                                                                                  |        |  |  |                  |                           |                       |    |    |      |            |    |    |      |            |    |    |      |        |    |    |      |        |    |    |         |            |    |    |         |            |    |    |         |        |    |    |         |        |    |    |      |            |    |    |      |            |    |    |      |        |    |    |      |        |    |    |         |            |    |    |         |            |    |    |         |        |    |    |         |        |  |
| Delete the Error History    | Delete Error History information stored on the unit.                                                   | <div>CLR</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Press [9] [7] in service mode.                                                                                                  |        |  |  |                  |                           |                       |    |    |      |            |    |    |      |            |    |    |      |        |    |    |      |        |    |    |         |            |    |    |         |            |    |    |         |        |    |    |         |        |    |    |      |            |    |    |      |            |    |    |      |        |    |    |      |        |    |    |         |            |    |    |         |            |    |    |         |        |    |    |         |        |  |
| Error code initialization   | Initialization of the last error code held by timer (Write in F00)                                     | <div>CLR</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Press [9] [8] in service mode.                                                                                                  |        |  |  |                  |                           |                       |    |    |      |            |    |    |      |            |    |    |      |        |    |    |      |        |    |    |         |            |    |    |         |            |    |    |         |        |    |    |         |        |    |    |      |            |    |    |      |            |    |    |      |        |    |    |      |        |    |    |         |            |    |    |         |            |    |    |         |        |    |    |         |        |  |
| Initialize Service          | Last Drive Error, Error history and Error Codes stored on the unit are initialized to factory setting. | <div>CLR</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Press [9] [9] in service mode.                                                                                                  |        |  |  |                  |                           |                       |    |    |      |            |    |    |      |            |    |    |      |        |    |    |      |        |    |    |         |            |    |    |         |            |    |    |         |        |    |    |         |        |    |    |      |            |    |    |      |            |    |    |      |        |    |    |      |        |    |    |         |            |    |    |         |            |    |    |         |        |    |    |         |        |  |
| Finishing service mode      | Release Service Mode.                                                                                  | <p>Display in STOP (SS) mode.</p> <div>*****</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 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.

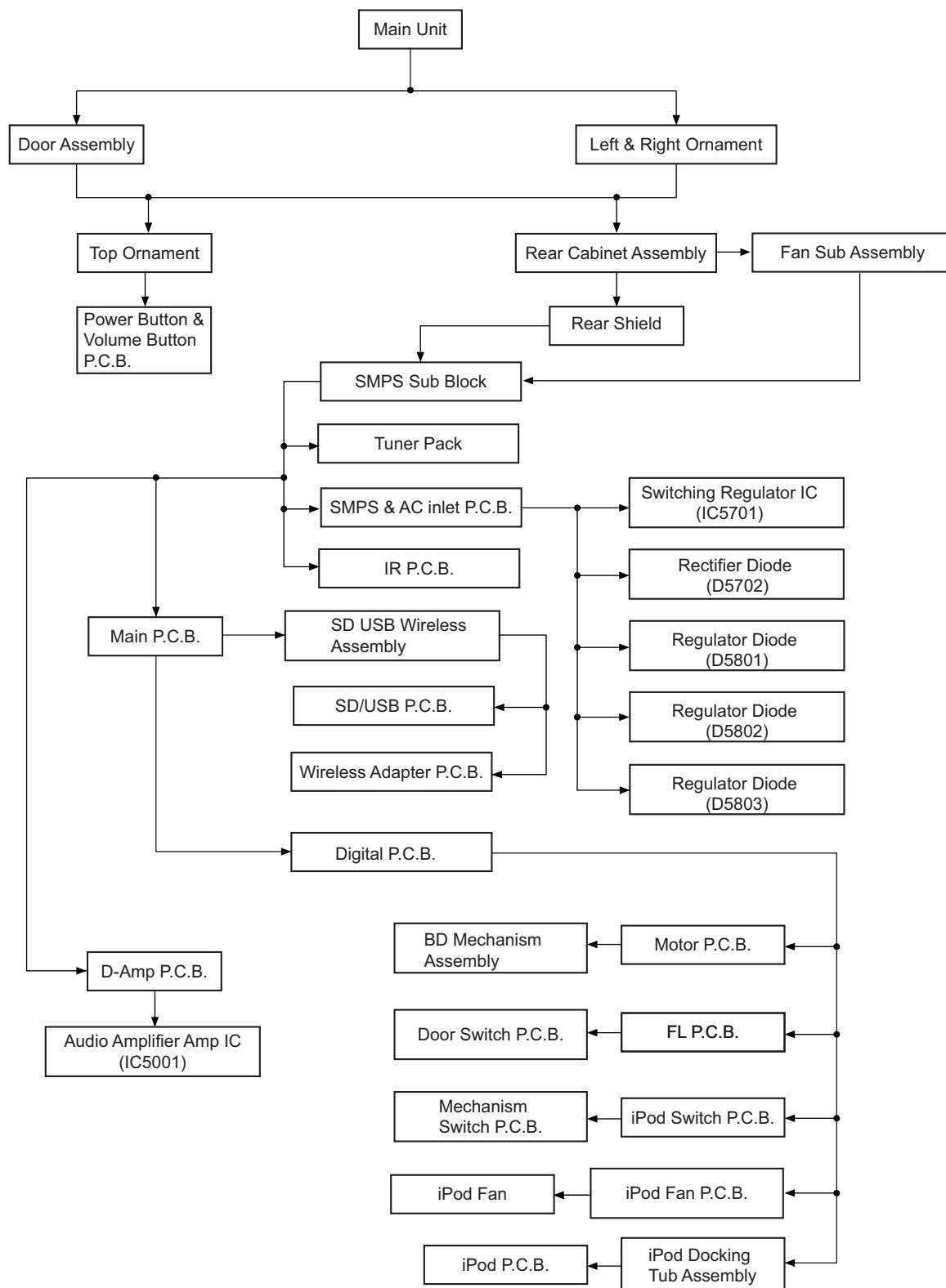
**CAUTION NOTE:**

Please use original screw and at correct locations.

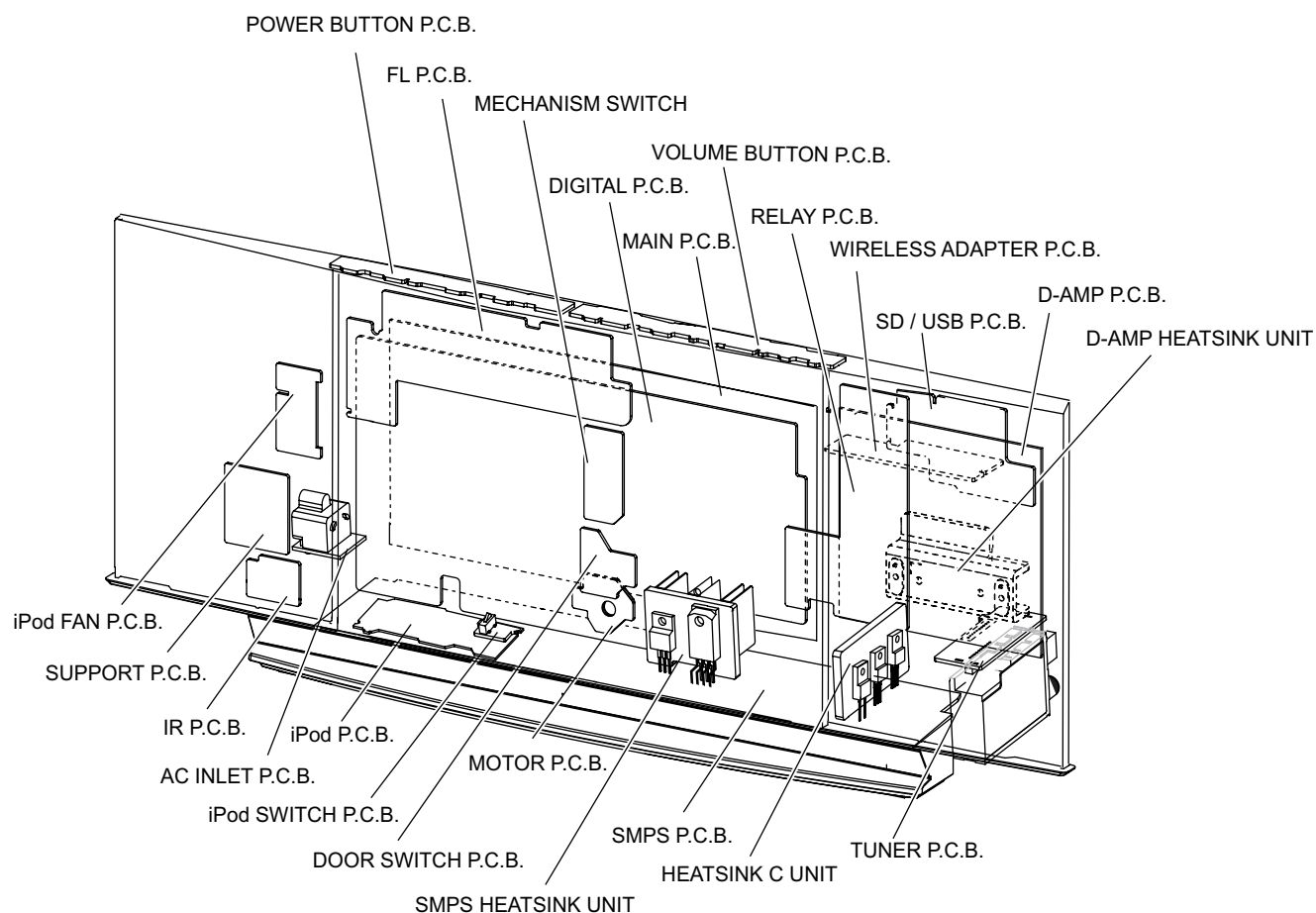
Below shown is part no. of different screw types used:

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

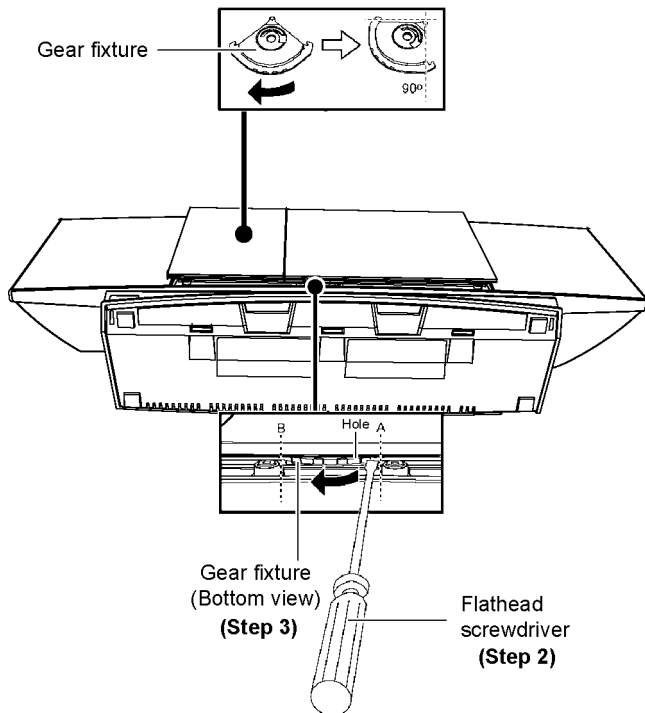
## 9.1. Disassembly Flow Chart



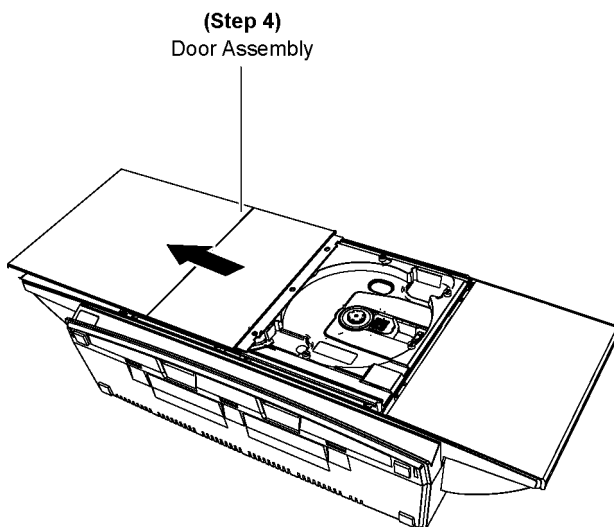
## 9.2. Main Components and P.C.B. Locations



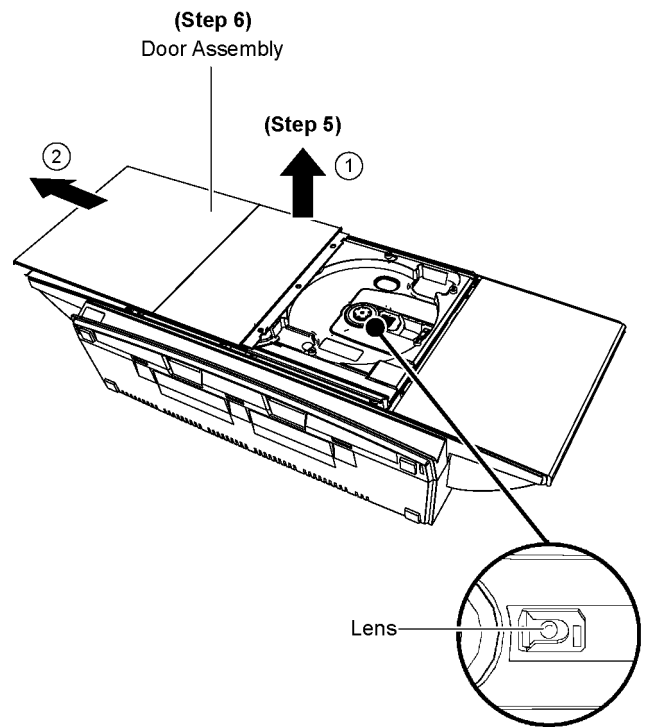
### 9.3. Disassembly of Door Assembly



- 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.

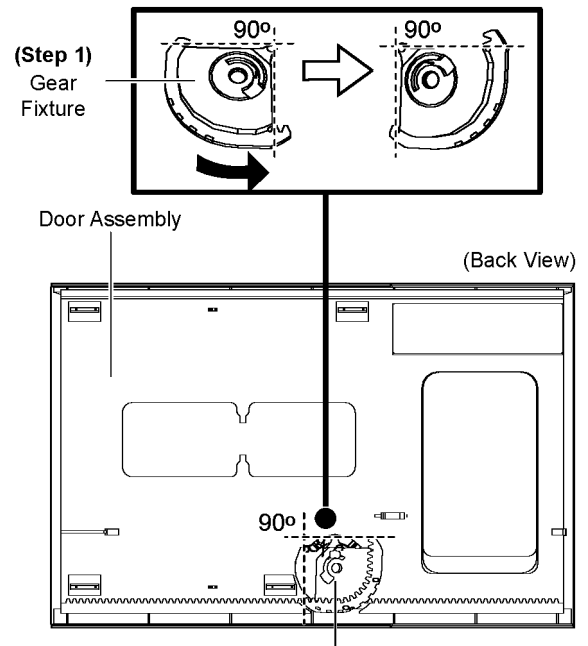


- Step 4** Gently push the Door Assembly manually until it is fully extended.

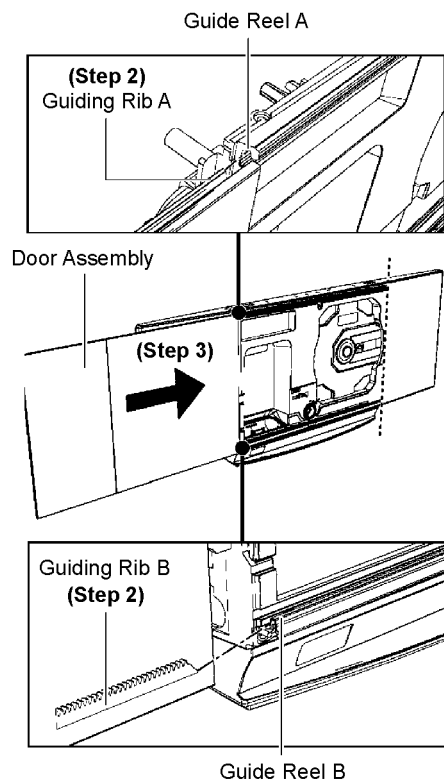


- Step 5** Lift up the Door Assembly slightly as arrow (1) shown.  
**Step 6** Push the Door Assembly as arrow (2) shown.  
**Step 7** Remove the Door Assembly.  
**Caution:** During assembling/ disassembling, avoid touching the Lens as it be damage the laser lens.

#### • Assembly of Door Assembly.



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



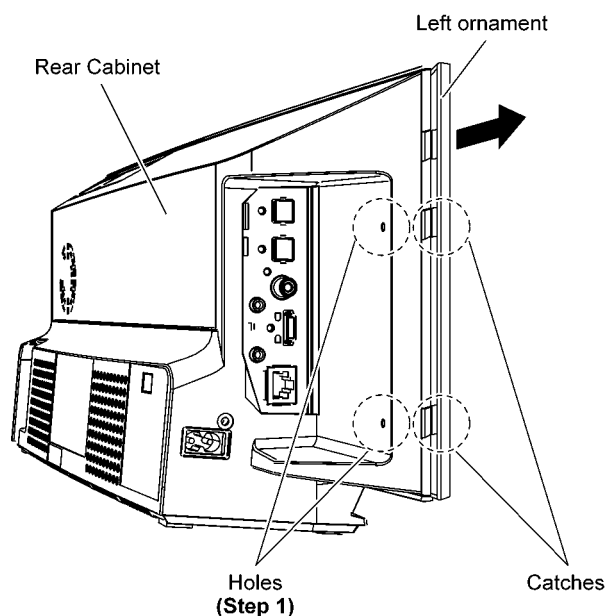
**Step 2** Align the Door Assembly with the (upper & lower rib), guide reel (A & B) on the front panel.

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

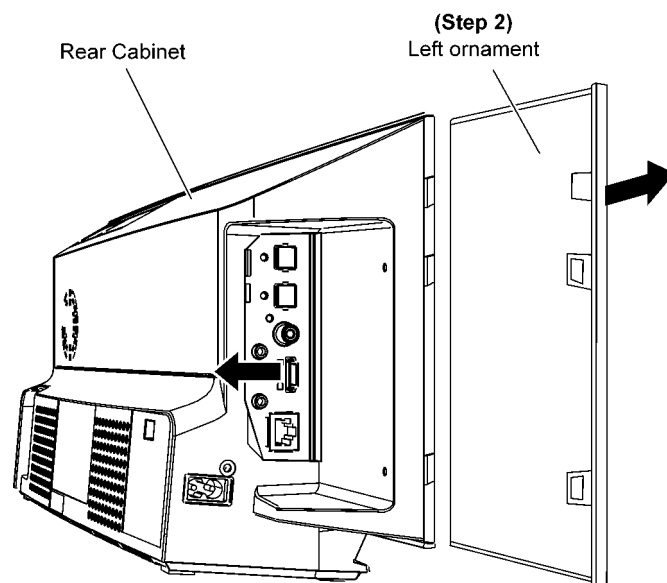
**Caution:** Avoid using strong force, ensure the Door Assembly move smoothly. Repeat steps if there is problem in the assembling.

## 9.4. Disassembly of Left Ornament & Right Ornament

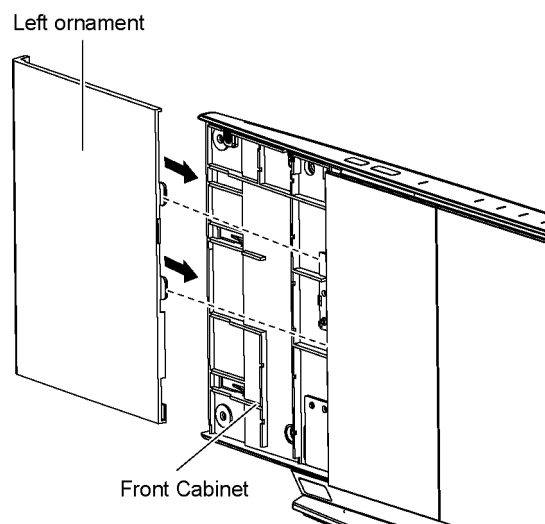
### • Disassembly of Left Ornament.



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

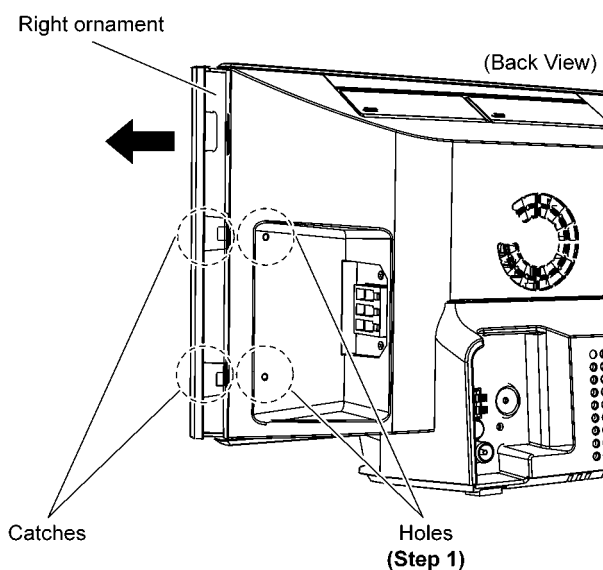


**Step 2** Slide to remove the Left Ornament.

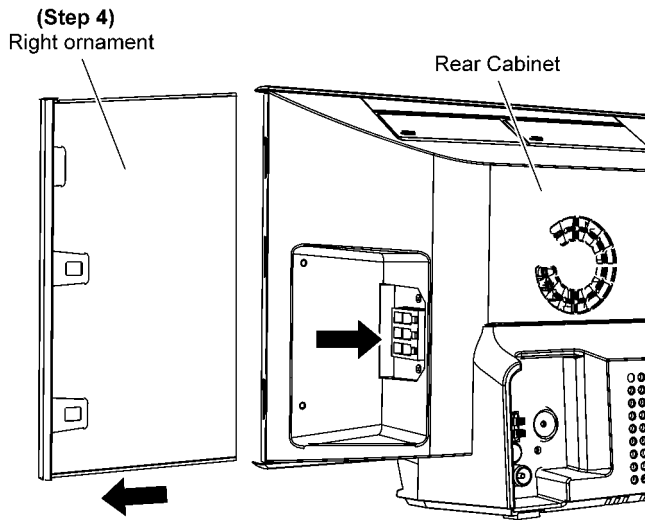


**Caution:** During assembling, ensure the Left Ornament is attached properly.

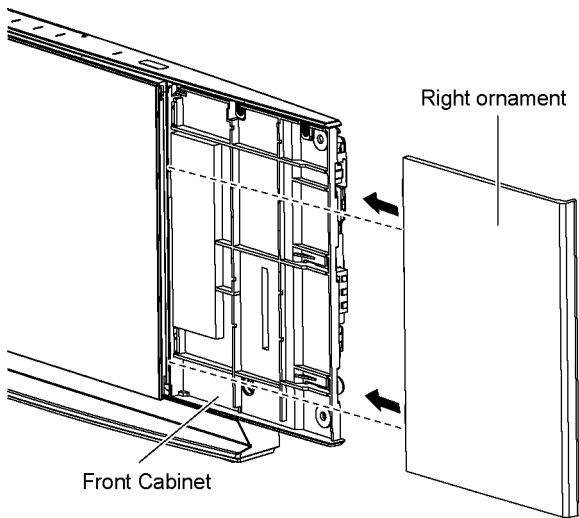
### • Disassembly of Right Ornament.



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



**Step 4** Slide to remove the Right Ornament.

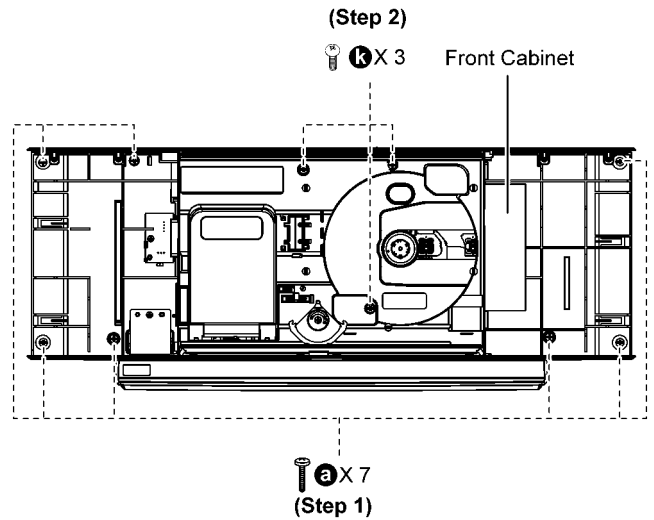


**Caution:** During assembling, ensure the Right Ornament is attached properly.

## 9.5. Replacement of Rear Cabinet

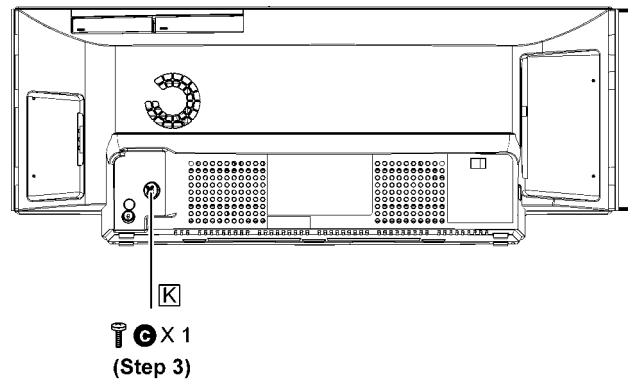
- Follow the (Step 1) to (Step 7) of Item 9.3.
- Follow the (Step 1) to (Step 8) of Item 9.4.

### 9.5.1. Disassembly of Rear Cabinet

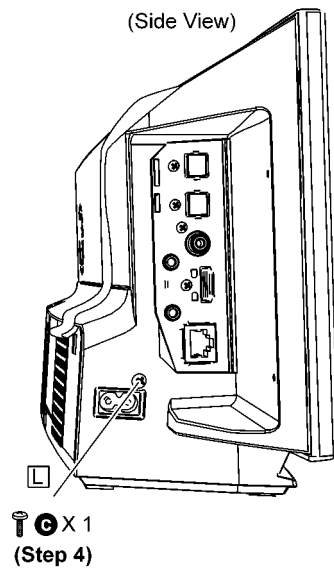


**Step 1** Remove 7 screws.

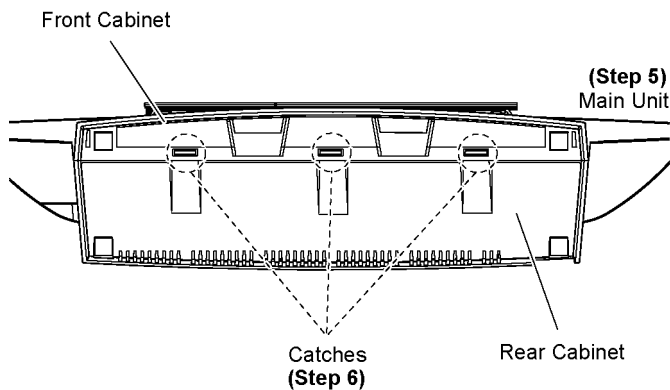
**Step 2** Remove 3 screws.



**Step 3** Remove 1 screw.



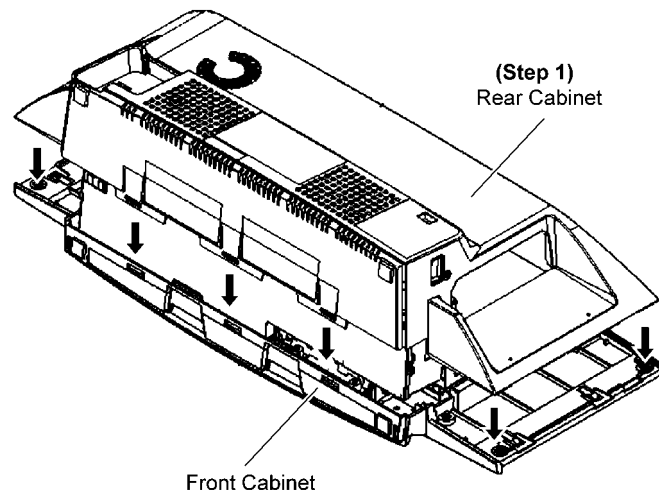
**Step 4** Remove 1 screw at the side of rear cabinet.



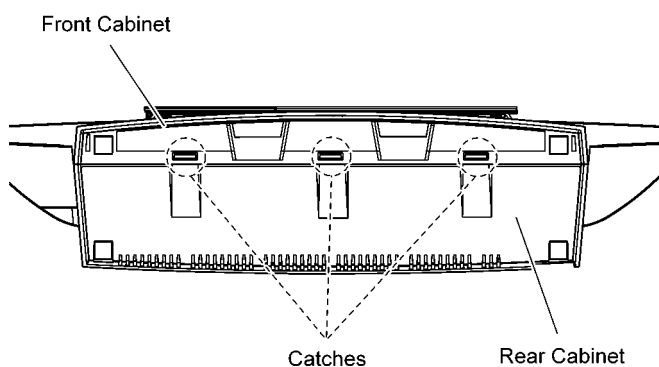
**Step 5** Upset the main unit.

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

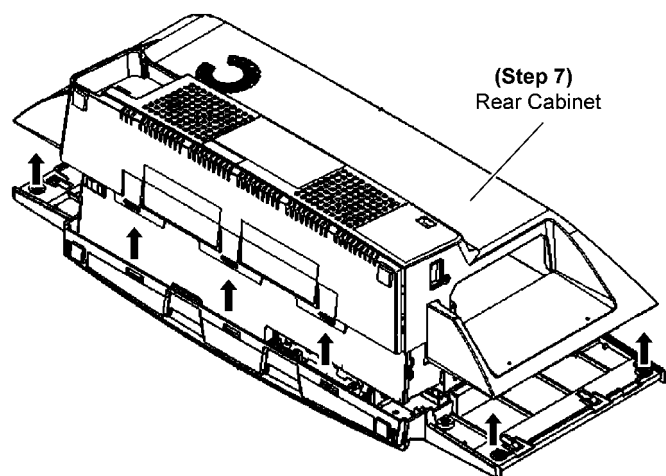
**Caution:** Ensure it is fully caught during assembling.



**Step 1** Fix the Rear Cabinet onto the front cabinet.

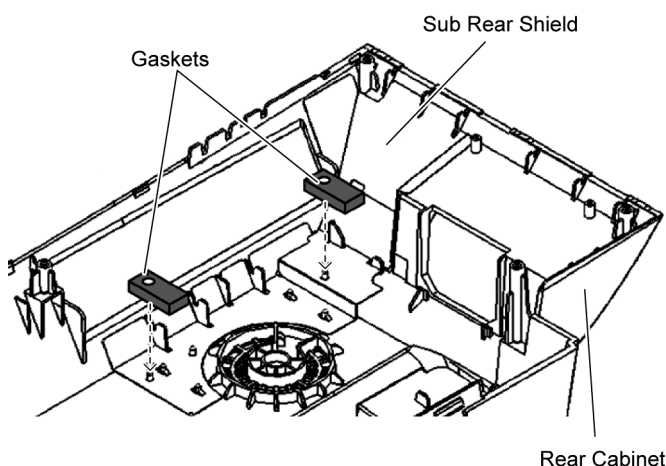


**Caution:** Ensure it is fully caught onto the front cabinet.



**Step 7** Lift up to remove rear cabinet.

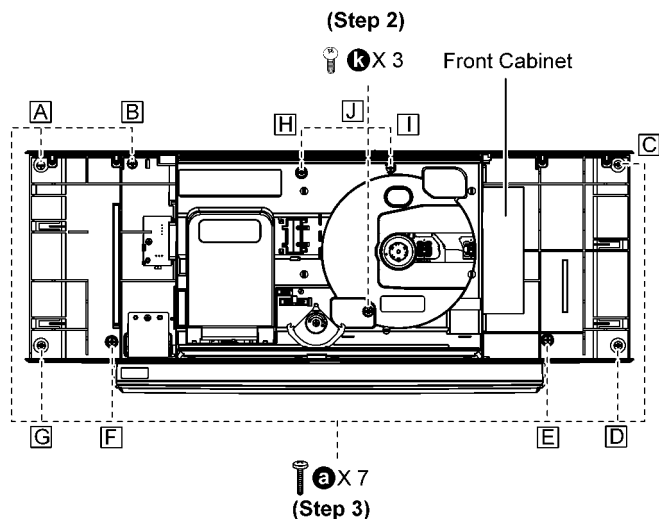
**Caution:** During assembling, ensure that rear cabinet assembly is properly fixed and fully caught onto front cabinet.



**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



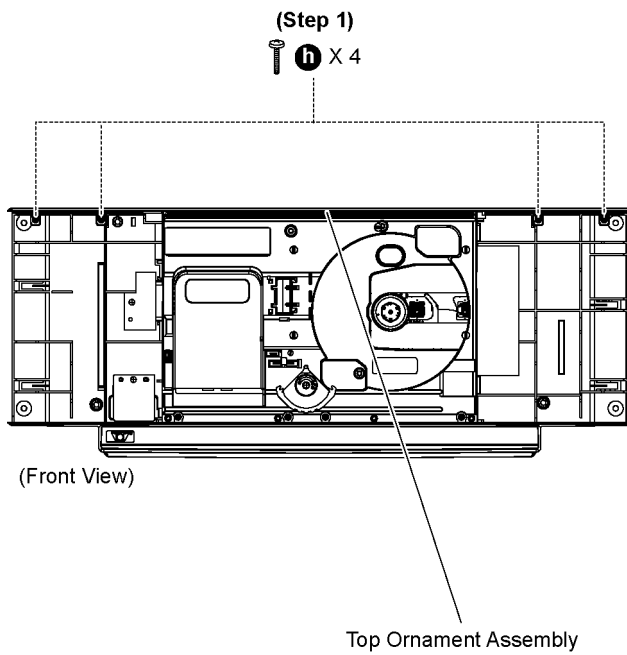
**Step 2** Mount 3 screws onto the front cabinet.

**Step 3** Mount 7 screws onto the front cabinet.

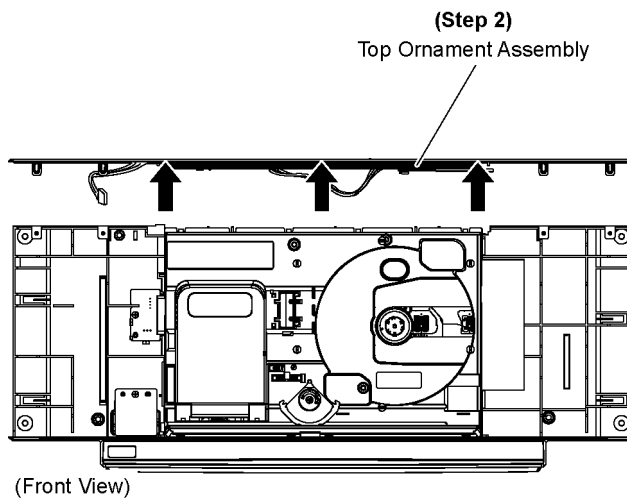
**Caution:** Please follow screwing sequence (A to J) to mount the screws onto front cabinet.

## 9.6. Disassembly of Top Ornament Assembly

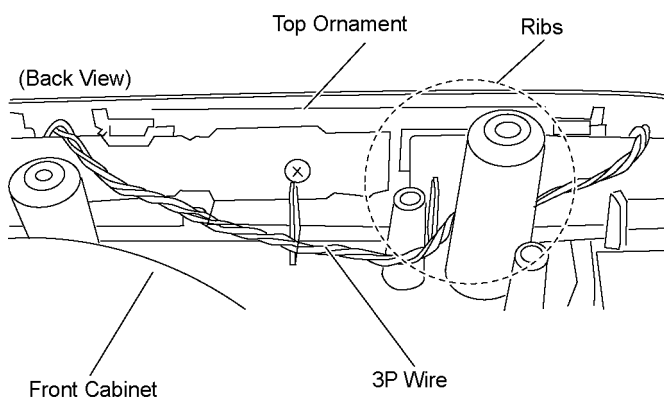
- Follow the (Step 1) to (Step 7) of Item 9.3.
- Follow the (Step 1) to (Step 8) of Item 9.4.



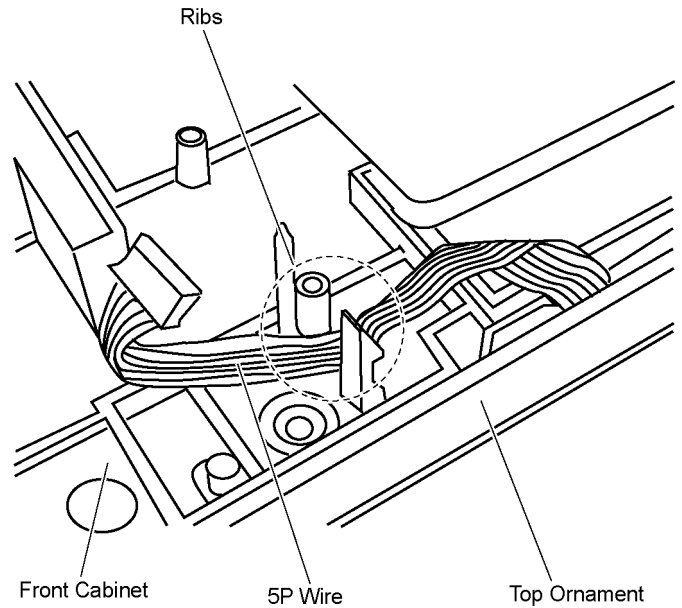
**Step 1** Remove 4 screws at Top Ornament Assembly.



**Step 2** Lift up Top Ornament Assembly.



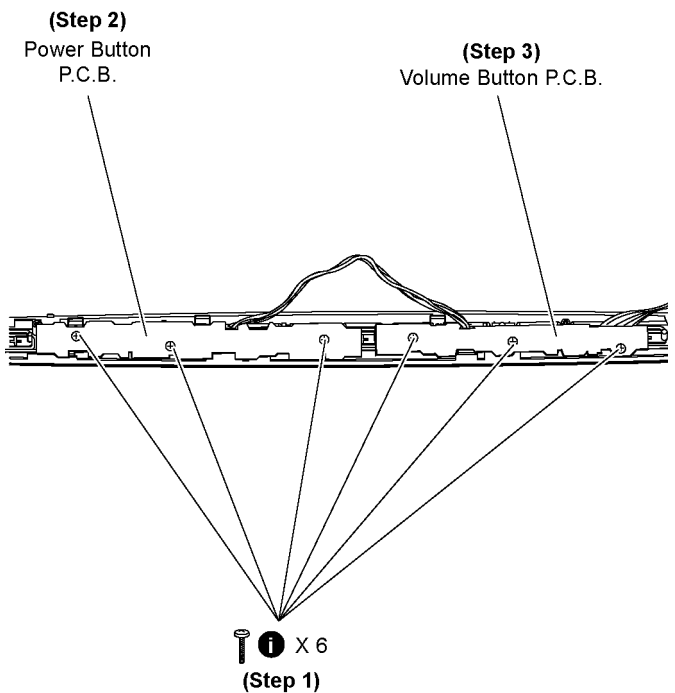
**Caution:** During assembling, ensure that 2P wire is dressed between the ribs properly.



**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.

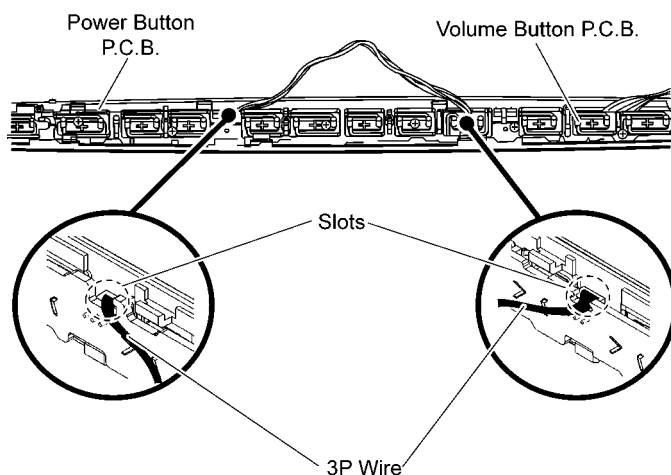
- Follow the (Step 1) to (Step 7) of Item 9.3.
- Follow the (Step 1) to (Step 8) of Item 9.4.
- Follow the (Step 1) to (Step 2) of Item 9.6.



**Step 1** Remove 6 screws.

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

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

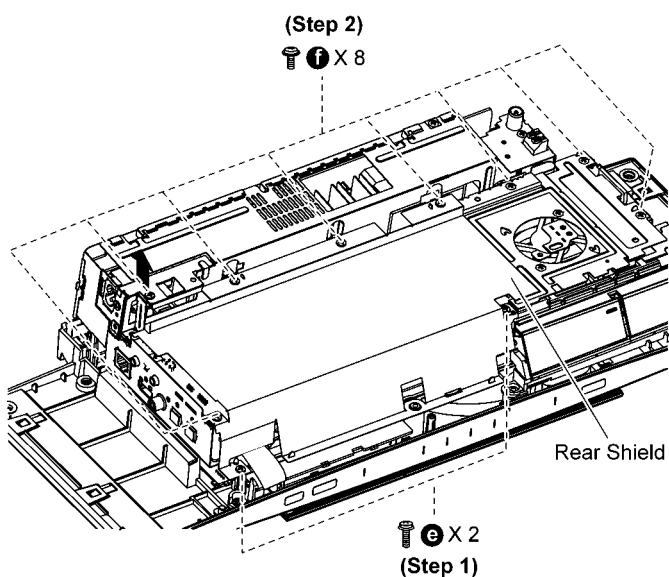


**Caution:** During assembling, ensure that 3P wire is properly dressed into the slots.

## 9.8. Disassembly of Rear Shield

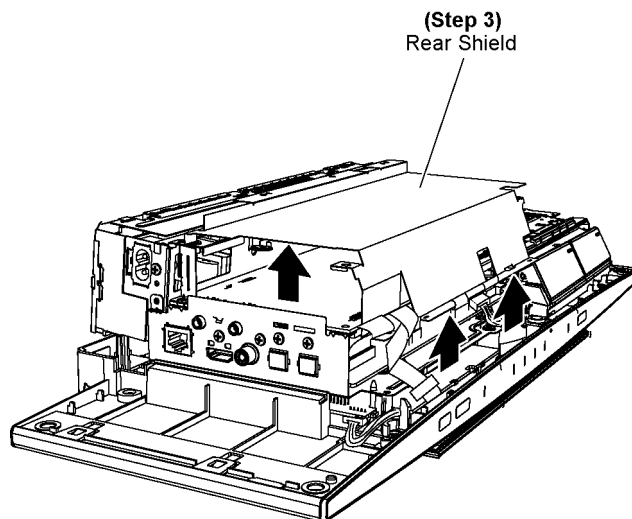
- Follow the (Step 1) to (Step 7) of Item 9.3.
- Follow the (Step 1) to (Step 8) of Item 9.4.
- Follow the (Step 1) to (Step 7) of Item 9.5.1.

### 9.8.1. Disassembly of Rear Shield

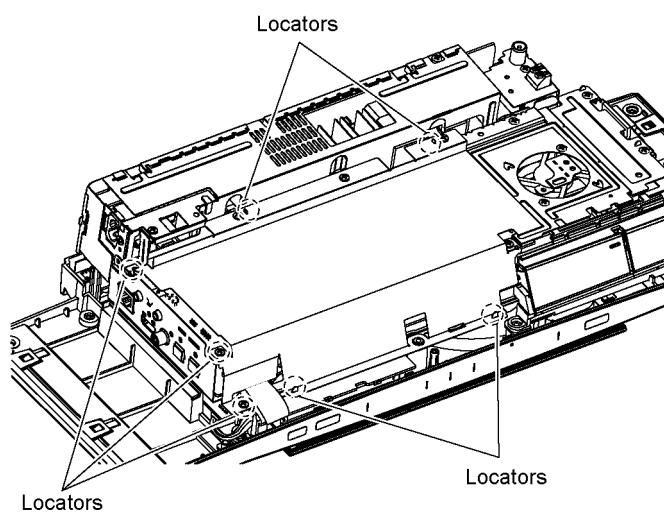


**Step 1** Remove 2 screws.

**Step 2** Remove 8 screws.



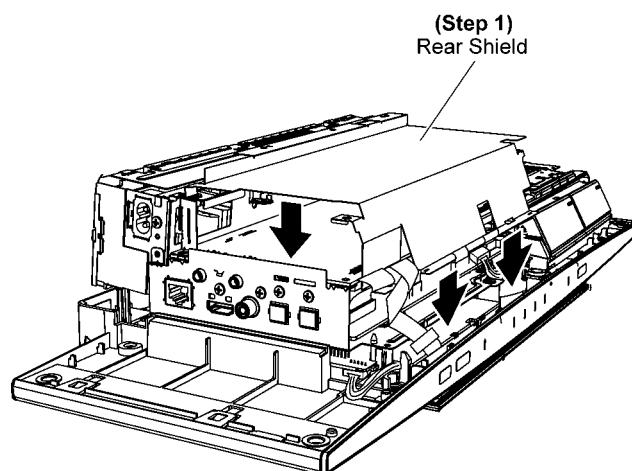
**Step 3** Remove rear shield.



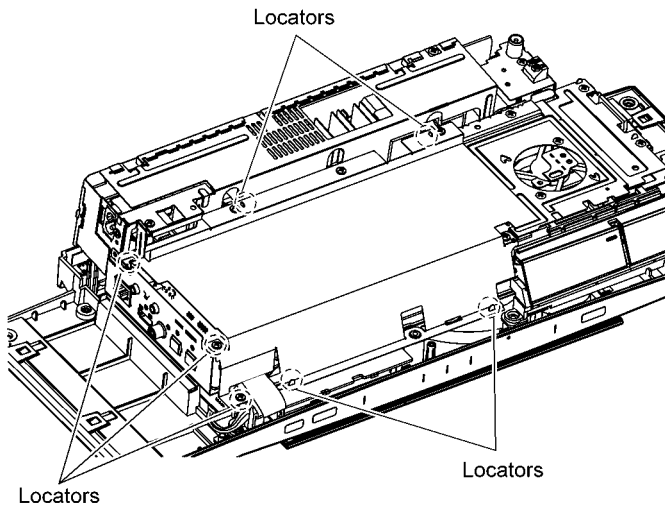
**Caution:** During assembling, ensure that rear shield is seated properly at the locators.

### 9.8.2. Assembly of Rear Shield

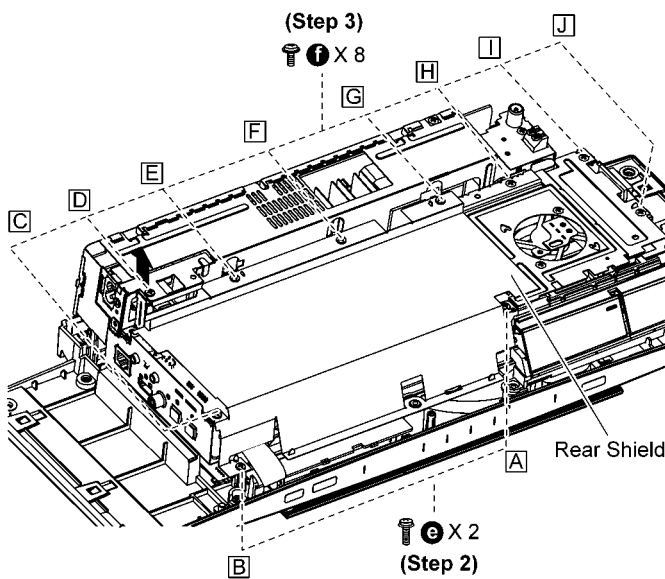
- Follow the (Step 1) to (Step 3) of Item 9.8.1



**Step 1** Fix the rear shield as diagram shown.



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



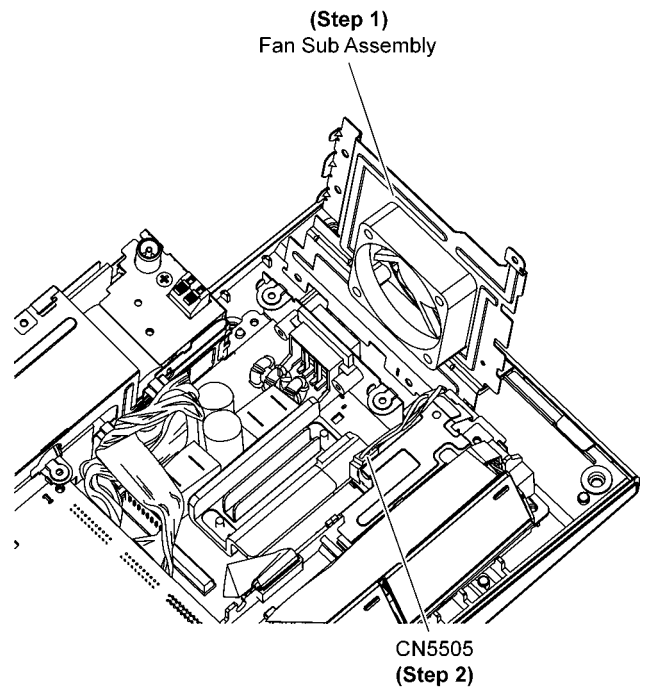
**Step 2** Mount 2 screws onto rear shield.

**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

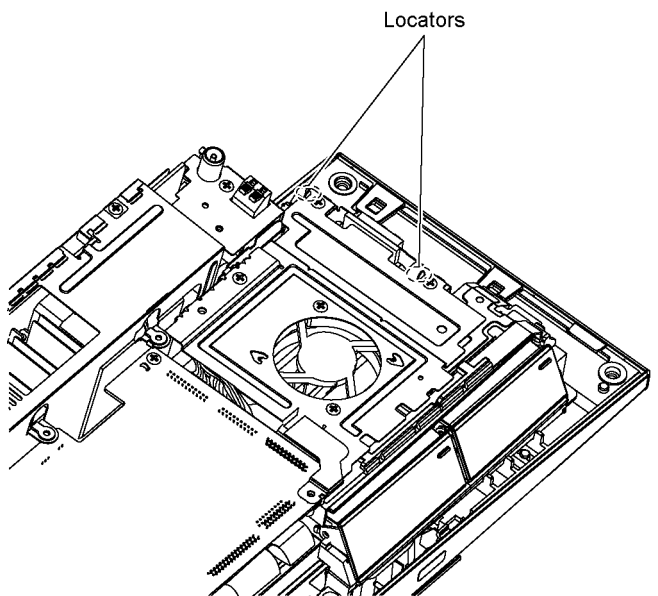
- Follow the (Step 1) to (Step 7) of Item 9.3.
- Follow the (Step 1) to (Step 8) of Item 9.4.
- Follow the (Step 1) to (Step 7) of Item 9.5.1.
- Follow the (Step 1) to (Step 3) of Item 9.8.1.



**Step 1** Lift up Fan Sub Assembly.

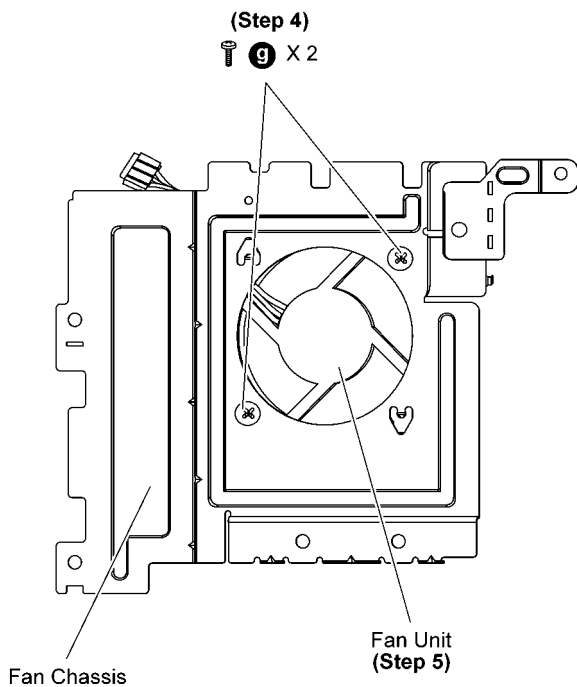
**Step 2** Detach 3P cable at the connector (CN5505) on D-Amp P.C.B..

**Step 3** Remove Fan Sub Assembly.



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

- Disassembly of Fan Unit

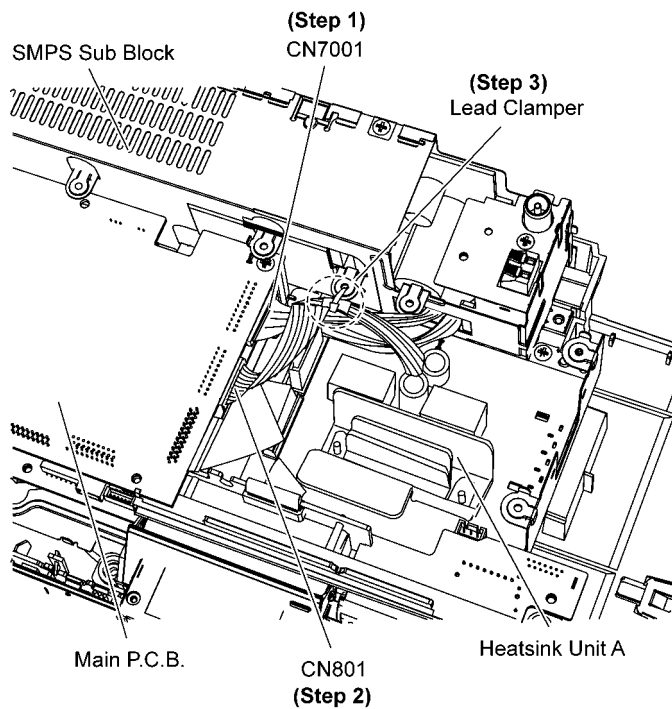


**Step 4** Remove 2 screws.

**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..

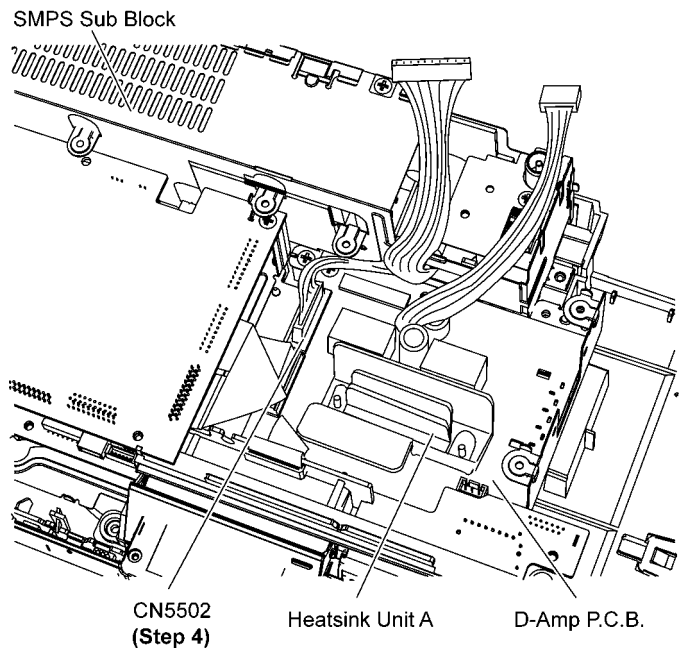
**Caution:** During assembling, press in 11P wire toward SMPS Sub Block to be away from heatsink unit A as diagram shown.

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

P.C.B..

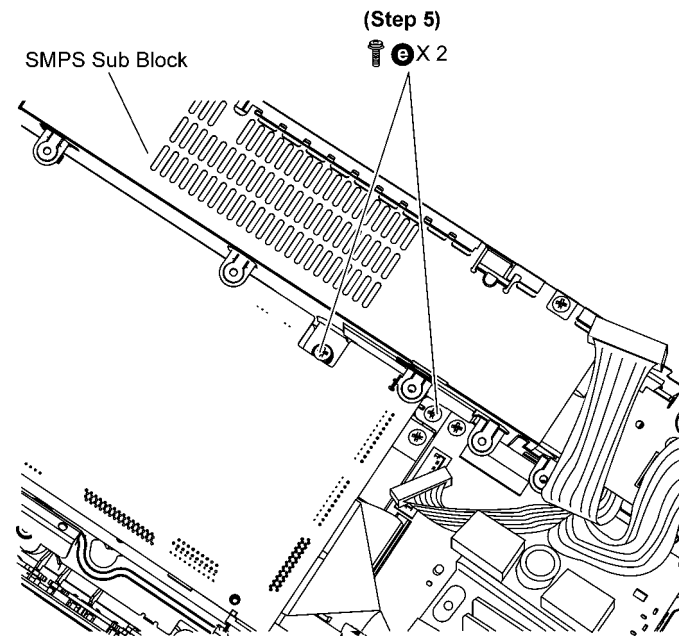
**Step 3** Cut the lead clamper.

**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.

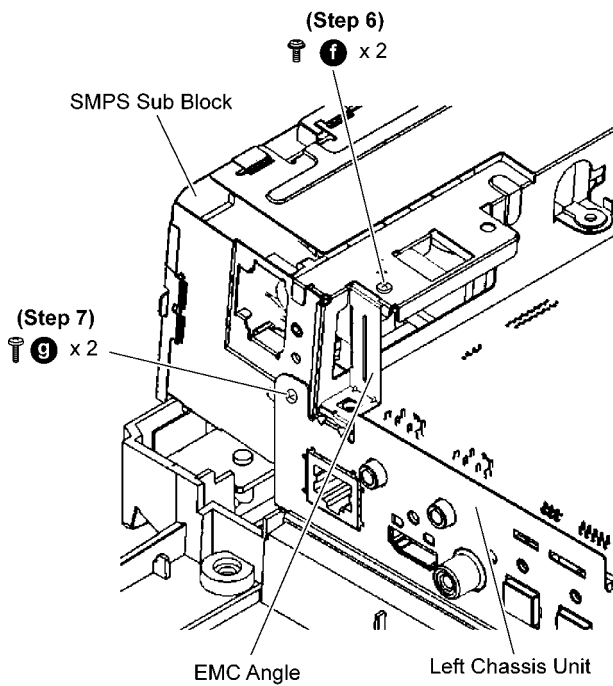


**Step 4** Detach 8P wire at the connector (CN5502) on D-Amp P.C.B..

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



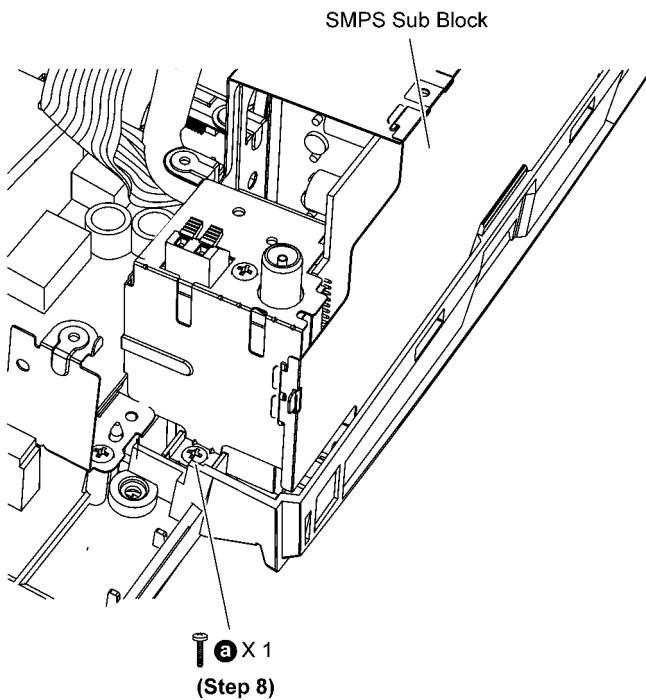
**Step 5** Remove 2 screws at SMPS Sub Block.



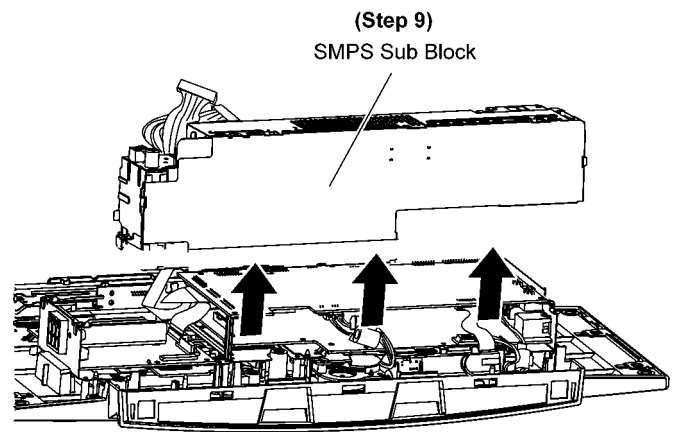
**Step 6** Remove 1 screws at SMPS Sub Block.

**Step 7** Remove 1 screws at Left Chassis Unit.

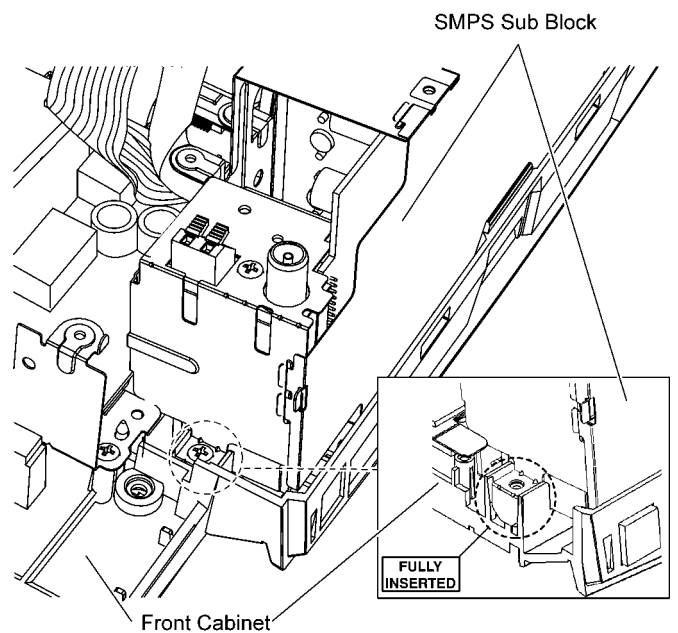
**Caution:** Keep the EMC Angle in safe place. Avoid denting it, place it back during assembling.



**Step 8** Remove 1 screw at SMPS Sub Block.



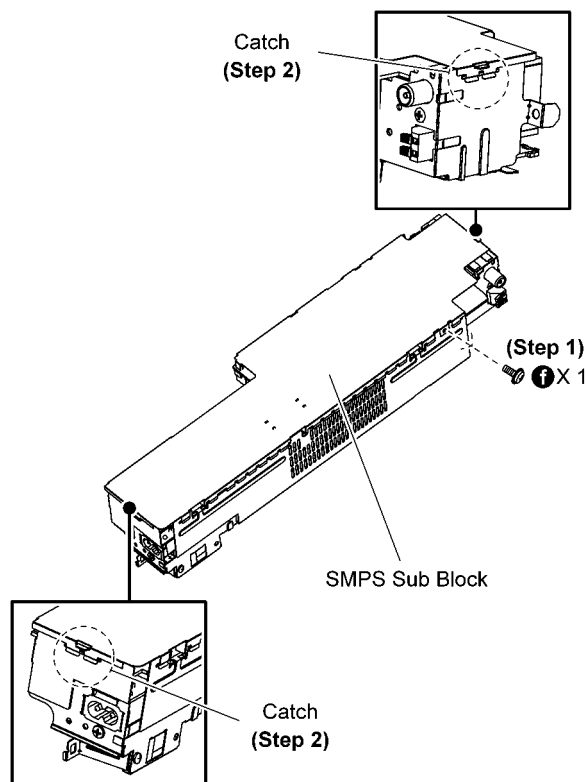
**Step 9** Remove SMPS Sub Block.



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

## 9.11. Disassembly of Tuner Pack

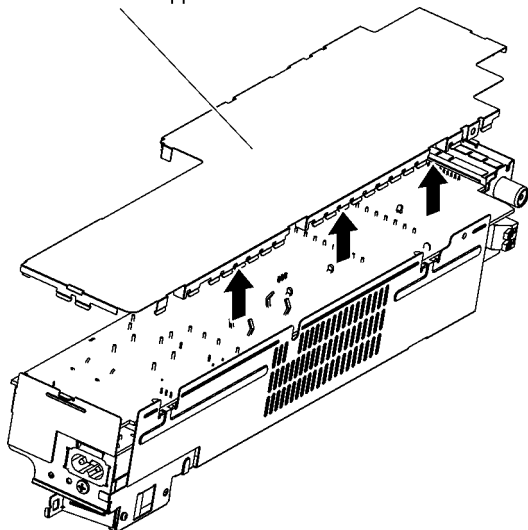
- Follow the (Step 1) to (Step 7) of Item 9.3.
- Follow the (Step 1) to (Step 8) of Item 9.4.
- Follow the (Step 1) to (Step 7) of Item 9.5.1.
- Follow the (Step 1) to (Step 3) of Item 9.8.1.
- Follow the (Step 1) to (Step 3) of Item 9.9.
- Follow the (Step 1) to (Step 9) of Item 9.10.



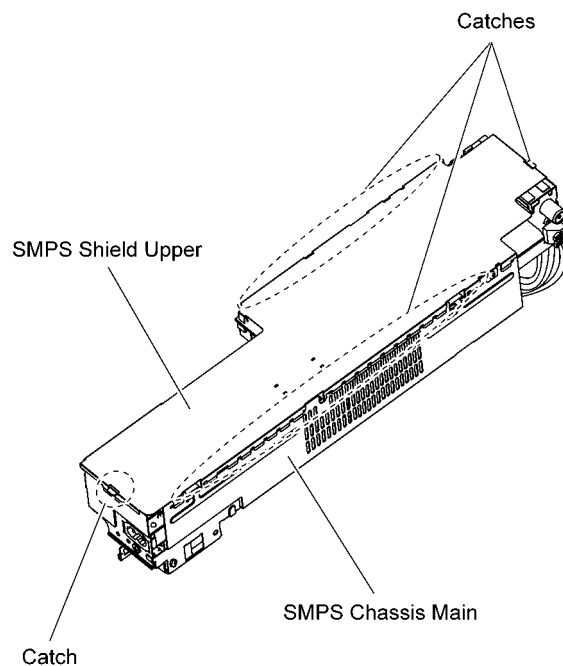
**Step 1** Remove 1 screws.

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

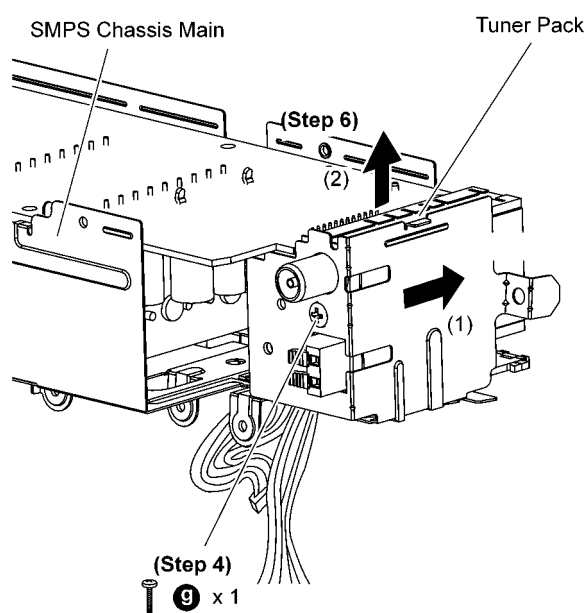
(Step 3)  
SMPS Shield Upper



**Step 3** Remove SMPS Shield Upper.



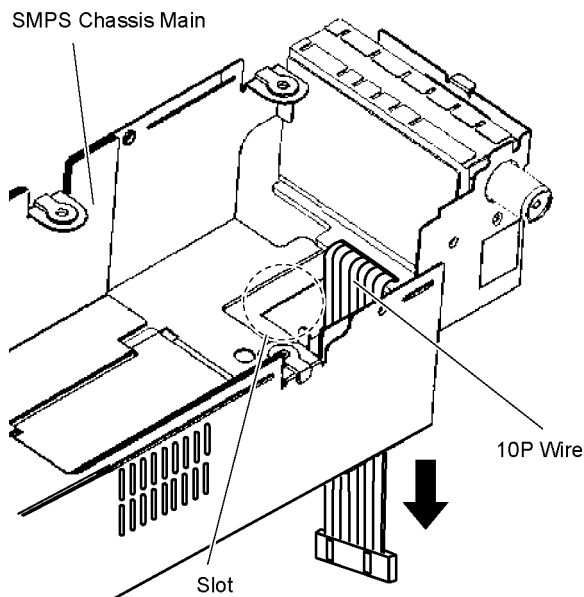
**Caution:** During assembling, ensure that SMPS Shield Upper is fully caught onto SMPS Chassis Main.



**Step 4** Remove 1 screw.

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

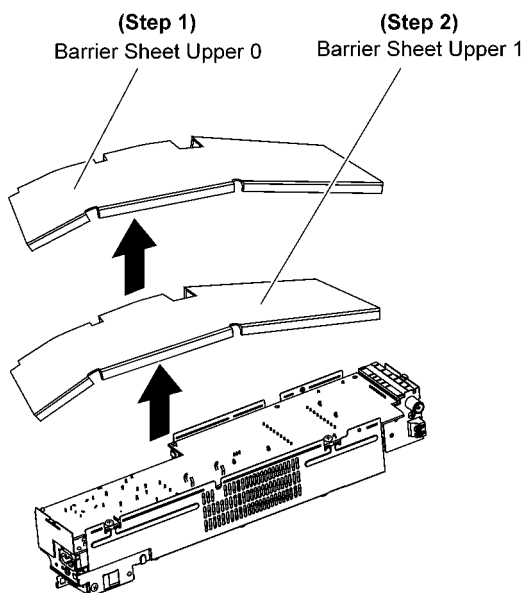
**Step 6** Lift up Tuner Pack in the direction of arrow (2).



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

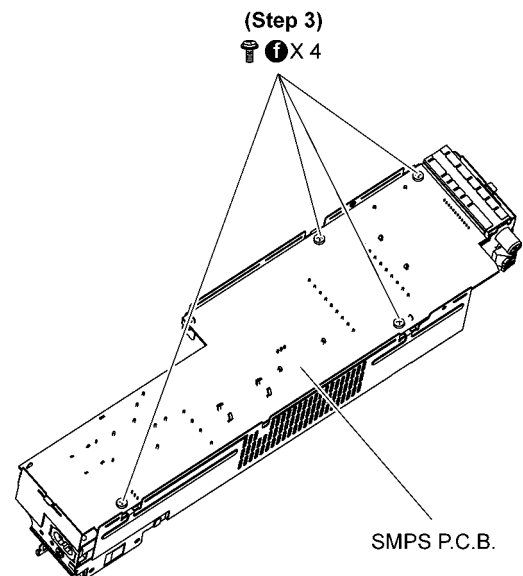
## 9.12. Disassembly of SMPS and AC Inlet P.C.B.

- 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.

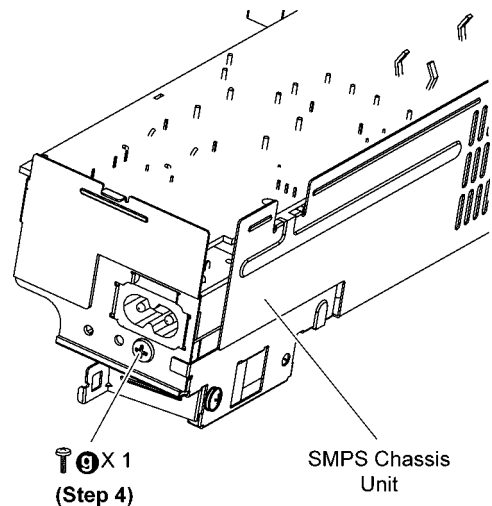


**Step 1** Lift up Barrier Sheet Upper 0.

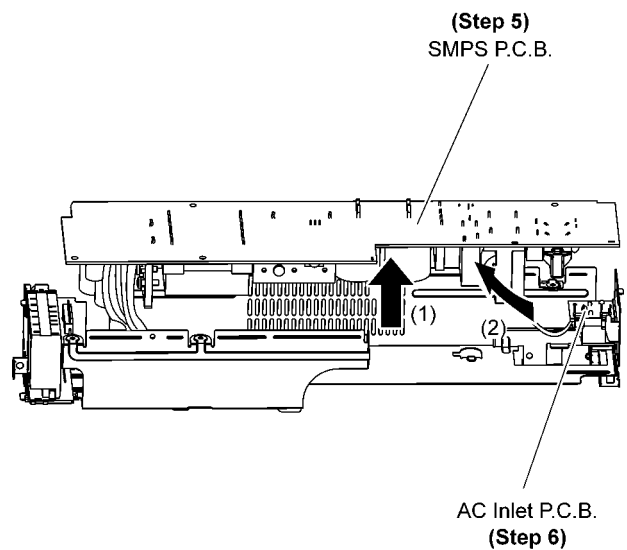
**Step 2** Lift up Barrier Sheet Upper 1.



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

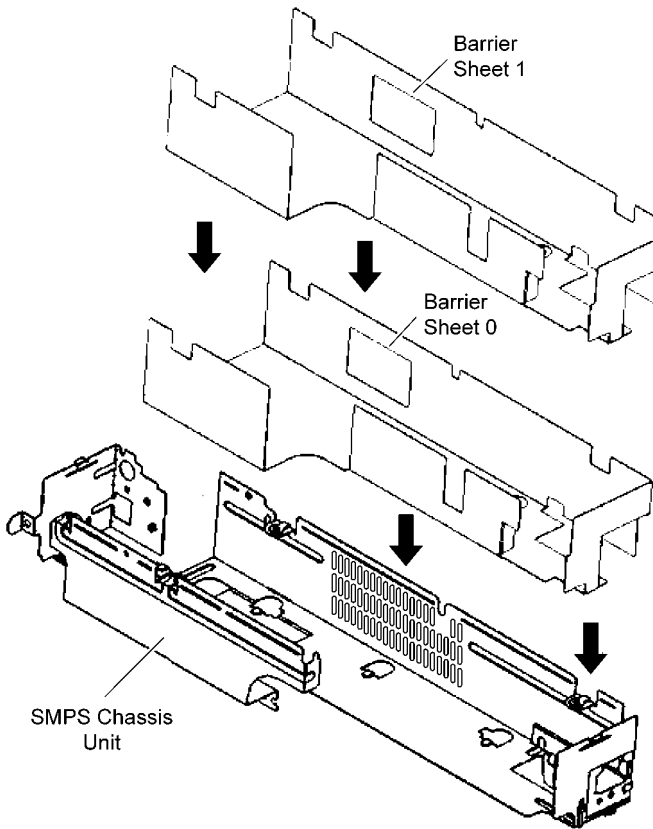


**Step 4** Remove 1 screw.

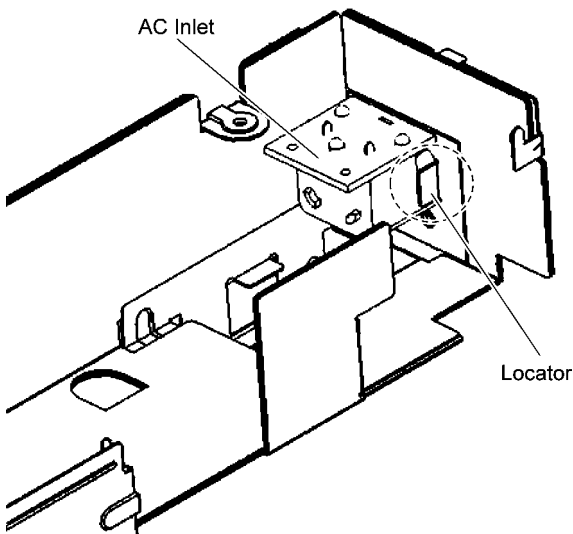


**Step 5** Lift up SMPS P.C.B. in the direction of arrow (1).

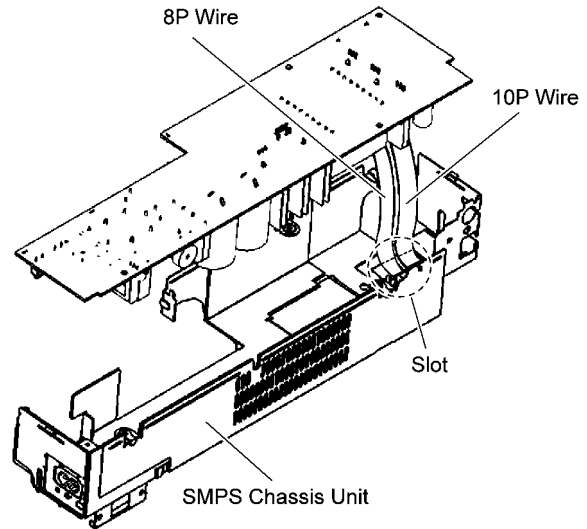
**Step 6** Lift up AC Inlet P.C.B. in the direction of arrow (2).



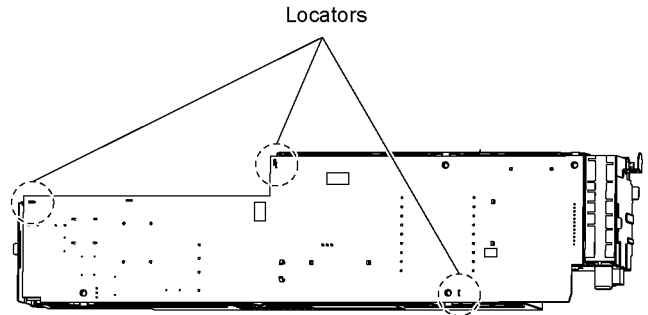
**Caution:** Before assembling of SMPS P.C.B., ensure that Barrier Sheet Upper 0/1 is properly inserted onto SMPS Chassis Unit.



**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.

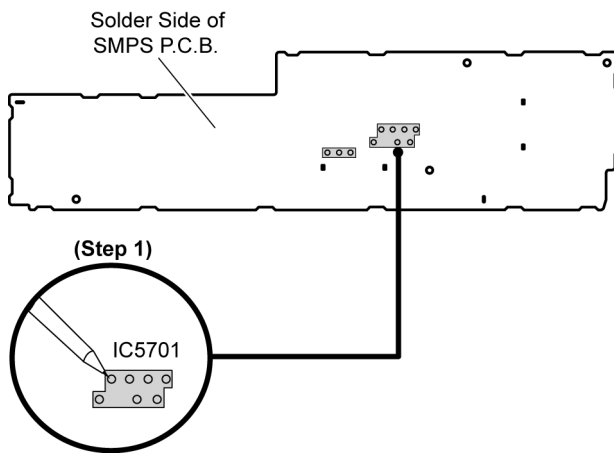


**Caution:** During assembling, ensure that SMPS P.C.B. is seated properly at the locators.

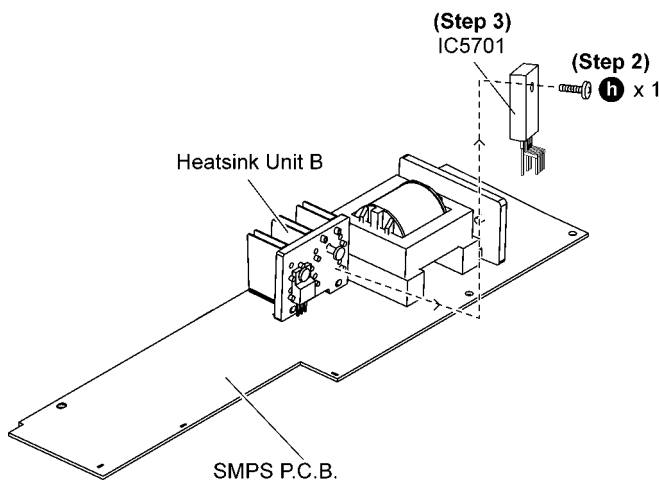
## 9.13. Replacement of Switching Regulator IC (IC5701)

### 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.



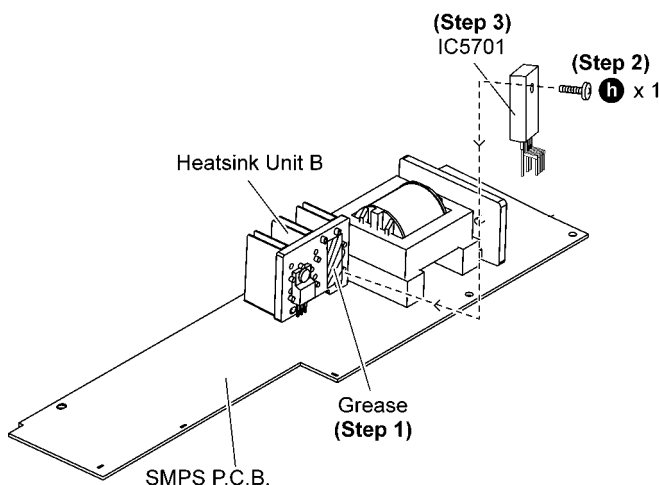
**Step 2** Remove 1 screw from the switching regulator IC (IC5701).

**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)

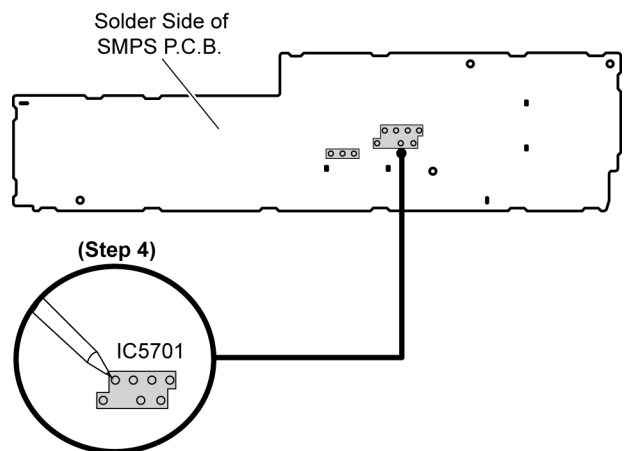


**Step 1** Apply grease to the heatsink unit B.

**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.



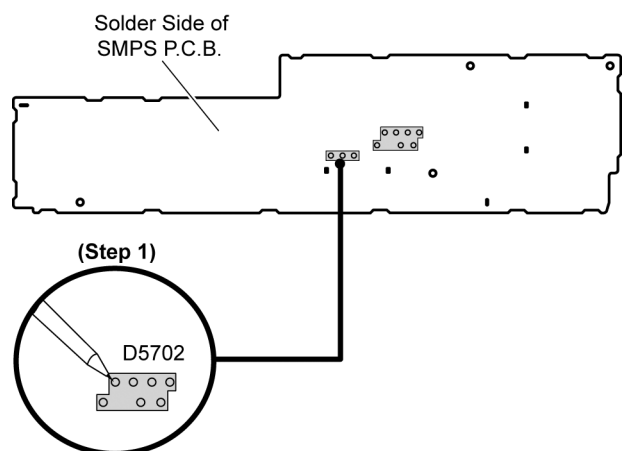
**Step 4** Solder pins of the switching regulator IC (IC5701) on the solder side of SMPS P.C.B.

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

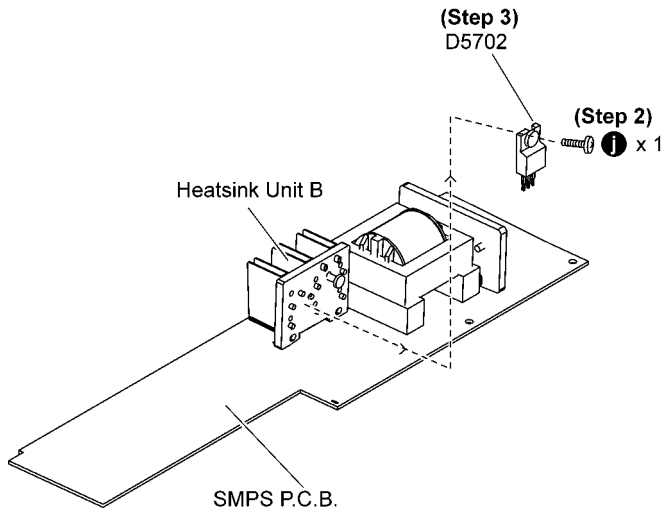
## 9.14. Replacement of Rectifier Diode (D5702)

### 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.



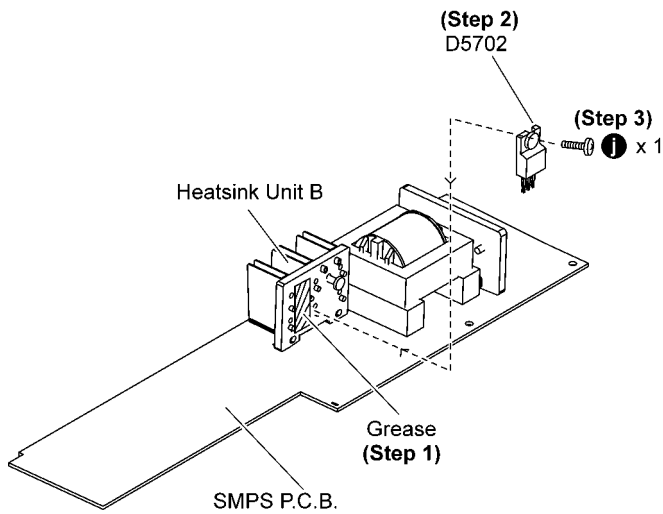
**Step 2** Remove 1 screw from the rectifier diode. (D5702).

**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)



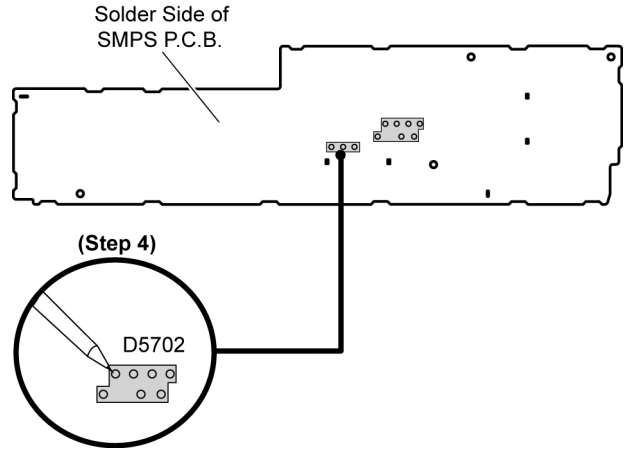
**Step 1** Apply grease to the heatsink unit B.

**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.

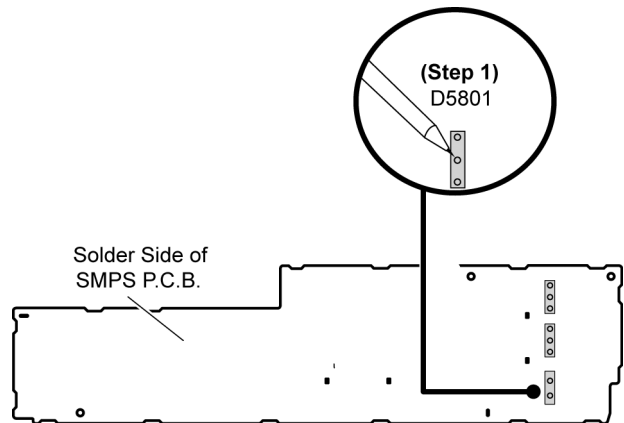


**Step 4** Solder pins of the rectifier diode (D5702) on the solder side of SMPS P.C.B.

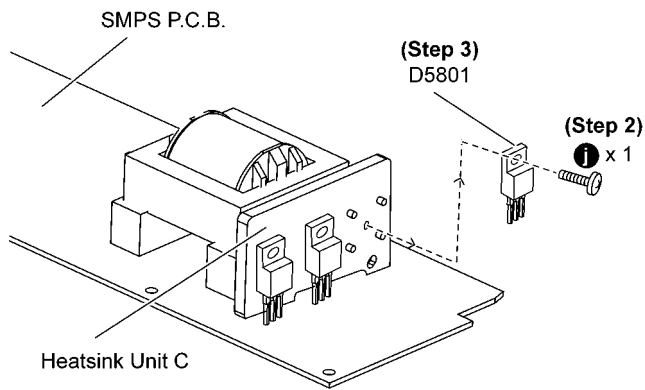
### 9.15. Replacement of Regulator Diode (D5801)

#### 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.



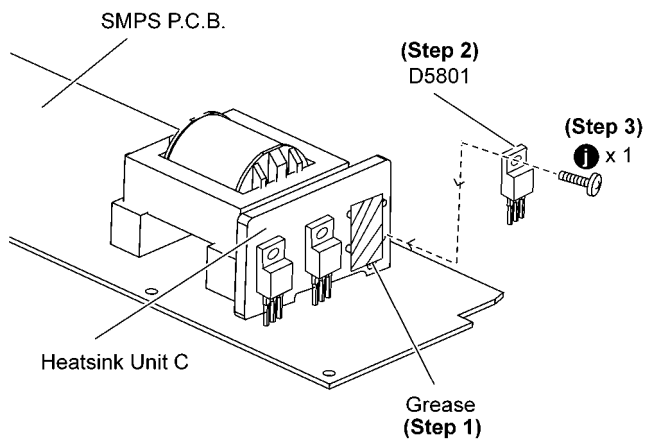
**Step 2** Remove 1 screw from the regulator diode (D5801).

**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)

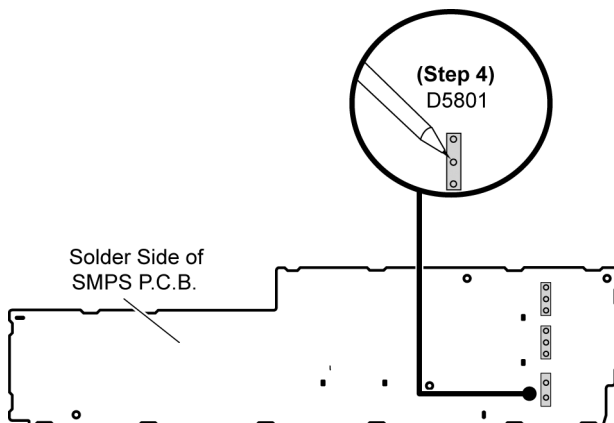


**Step 1** Apply grease to the heatsink unit C.

**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.



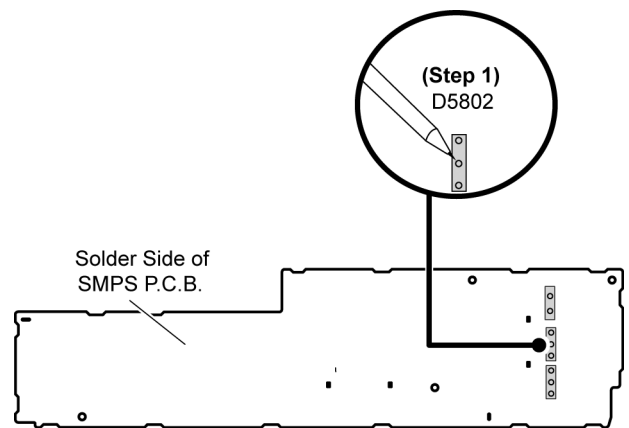
**Step 4** Solder pins of the regulator diode (D5801) on the solder side of SMPS P.C.B.

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

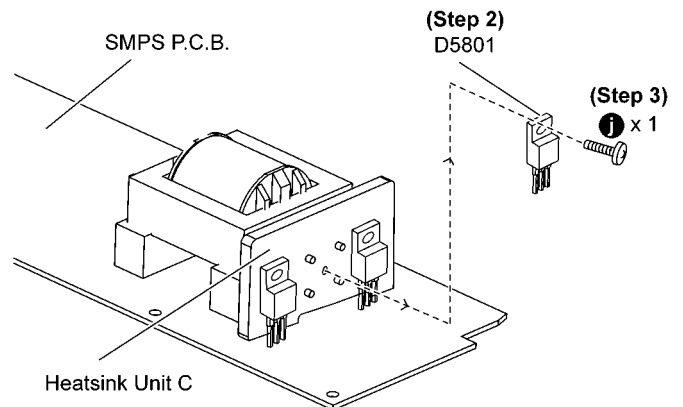
## 9.16. Replacement of Regulator Diode (D5802)

### 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.



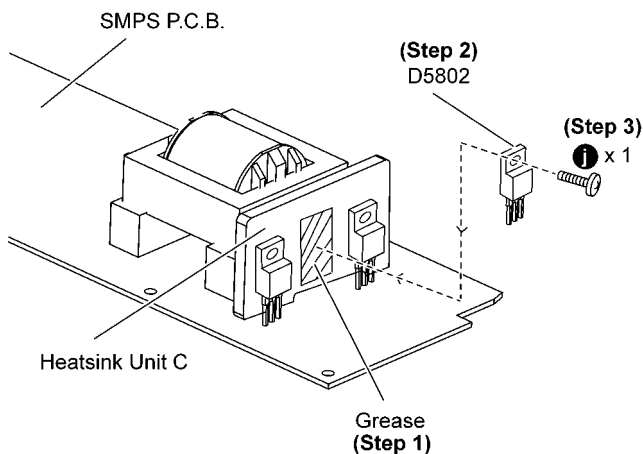
**Step 2** Remove 1 screw from the regulator diode (D5802).

**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)

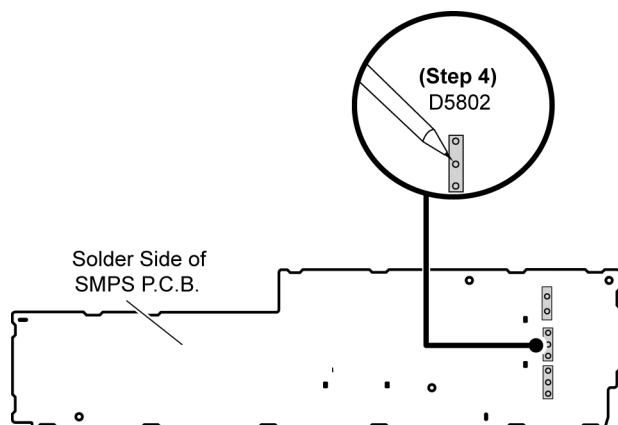


**Step 1** Apply grease to the heatsink unit C.

**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.



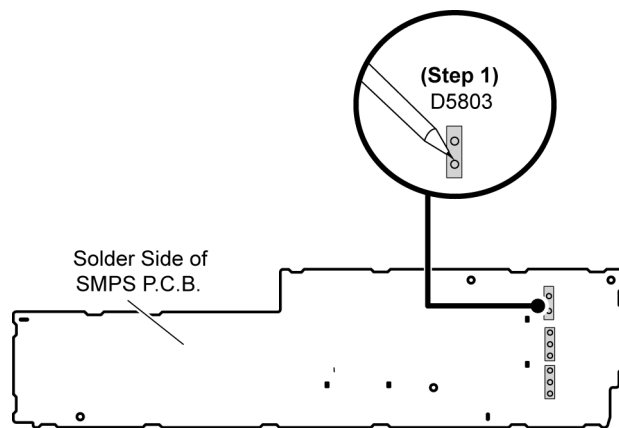
**Step 4** Solder pins of the regulator diode (D5802) on the solder side of SMPS P.C.B.

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

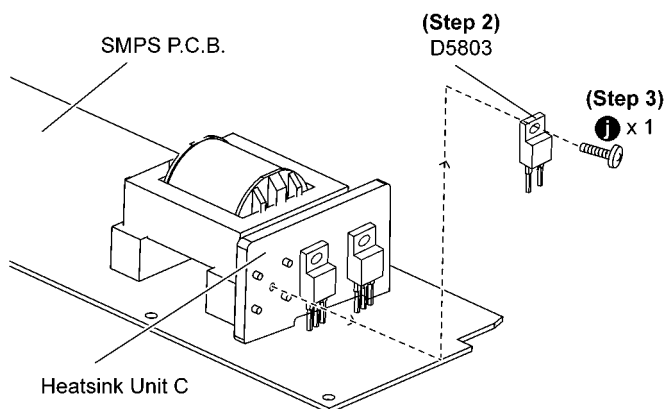
## 9.17. Replacement of Regulator Diode (D5803)

### 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.



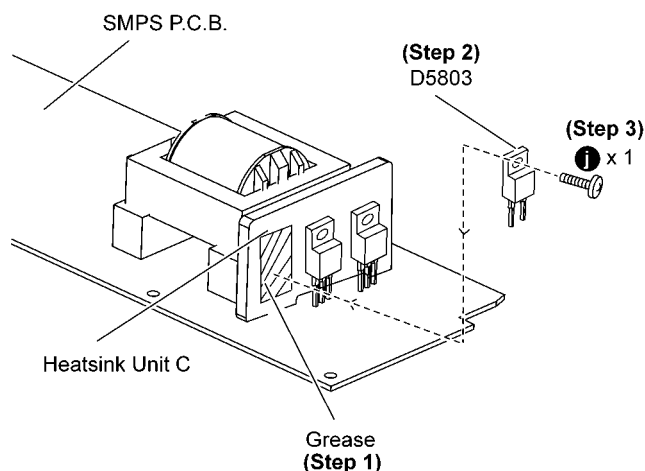
**Step 2** Remove 1 screw from the regulator diode (D5803).

**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)

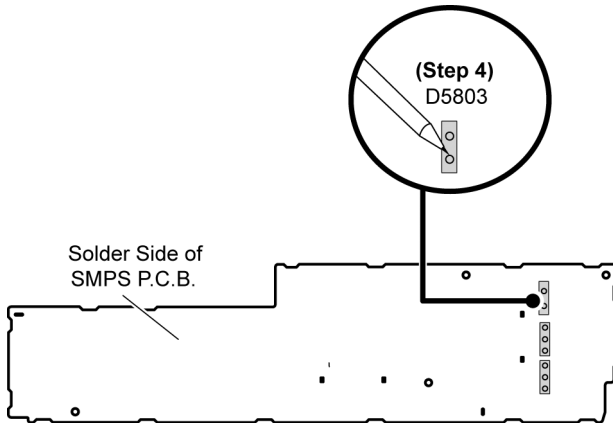


**Step 1** Apply grease to the heatsink unit C.

**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.

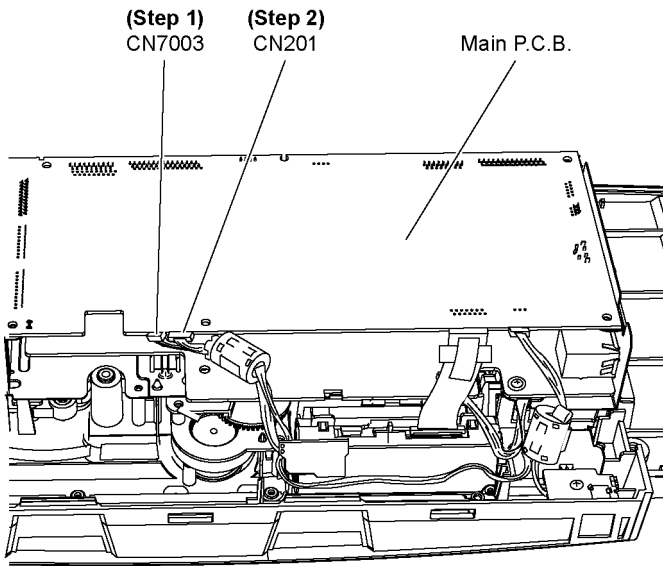


**Step 4** Solder pins of the regulator diode (D5803) on the solder side of SMPS P.C.B.

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

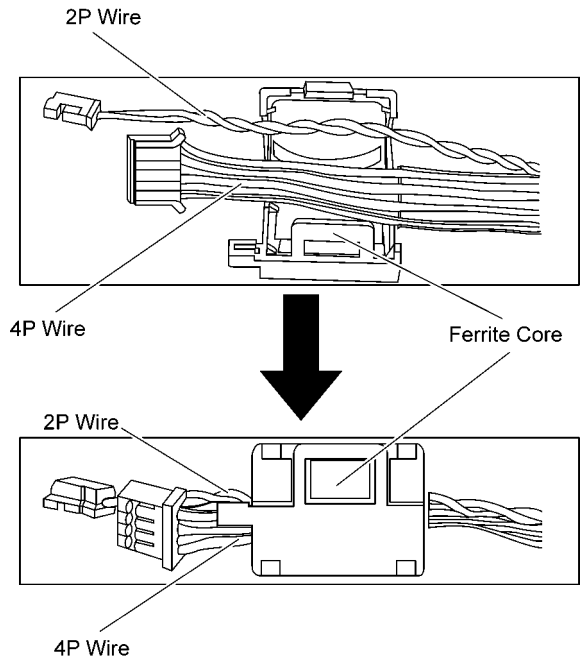
## 9.18. Disassembly of Main P.C.B.

- 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.

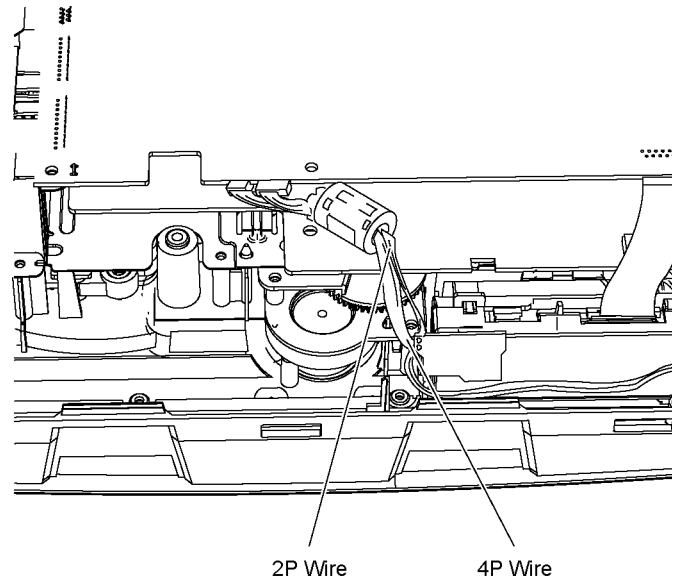


**Step 1** Detach 2P wire at the connector (CN7003) on Main P.C.B..

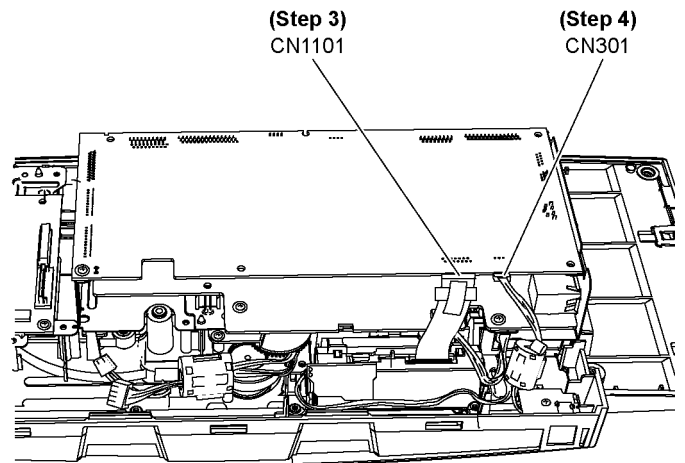
**Step 2** Detach 4P wire at the connector (CN201) on Main P.C.B..



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

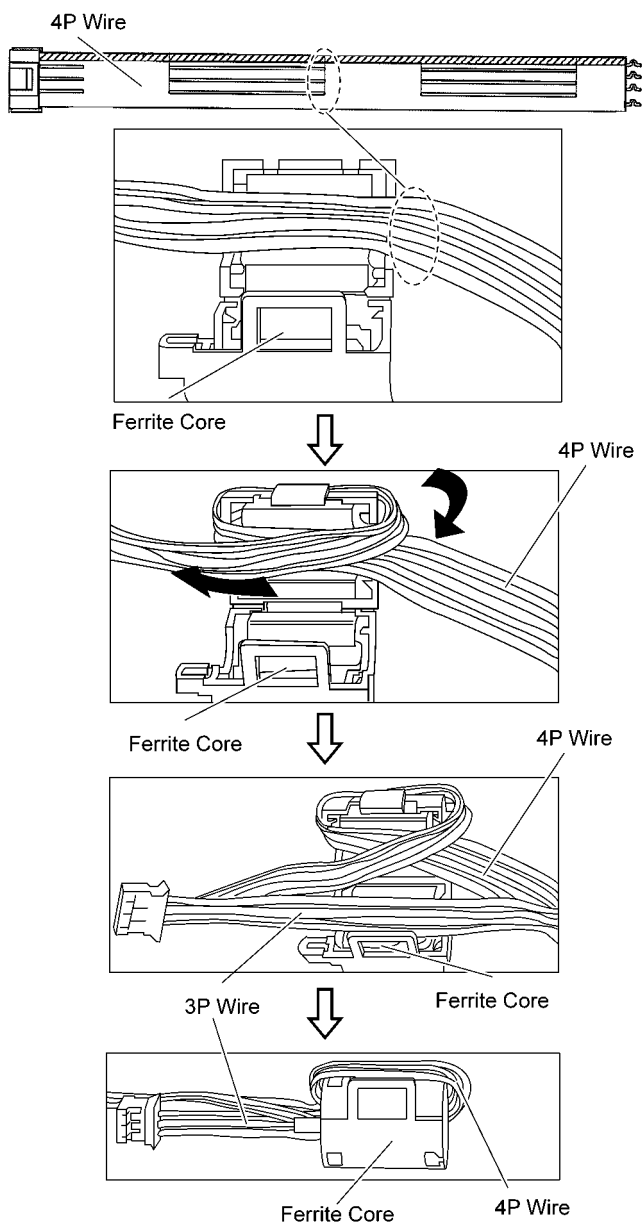


**Caution:** During assembling, ensure that 2P wire and 4P wire with ferrite core is in an inward direction.

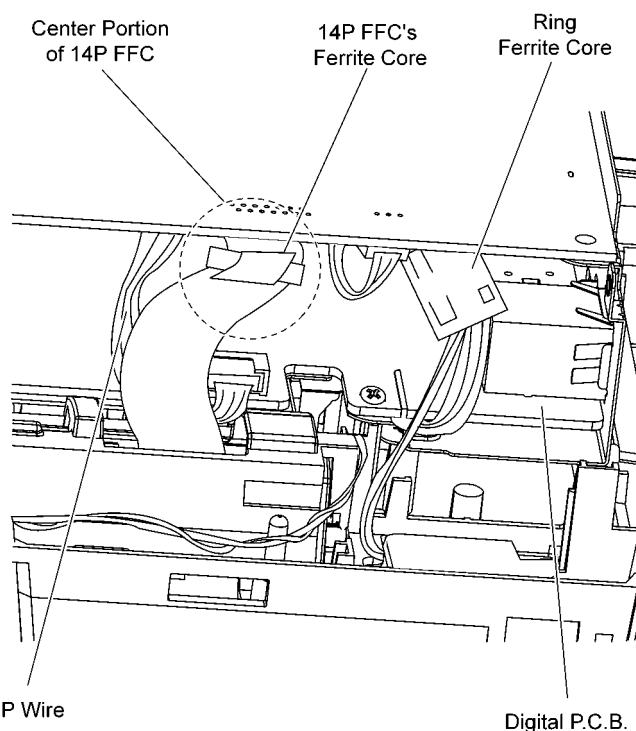


**Step 3** Detach 14P FFC at the connector (CN1101) on Main P.C.B..

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



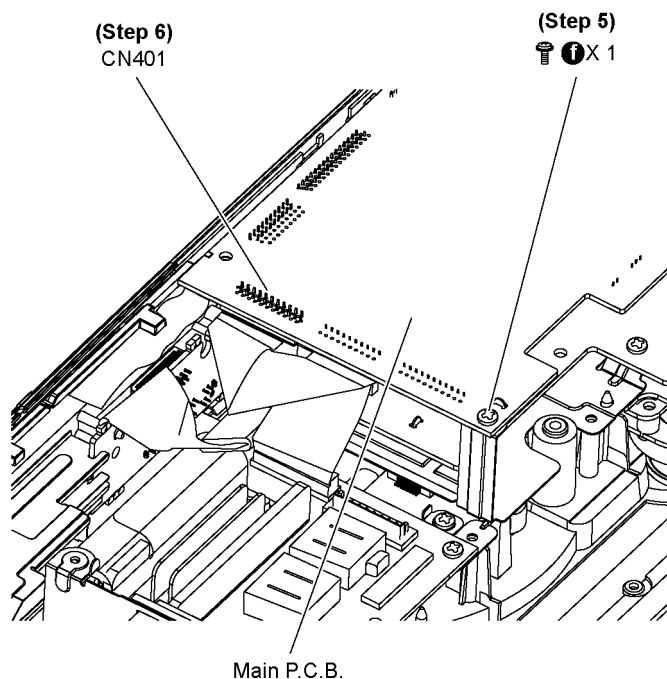
**Caution 1:** During assembling, ensure that the 4P & 3P wires are dressed into ferrite core properly. Close and lock ferrite core properly.



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

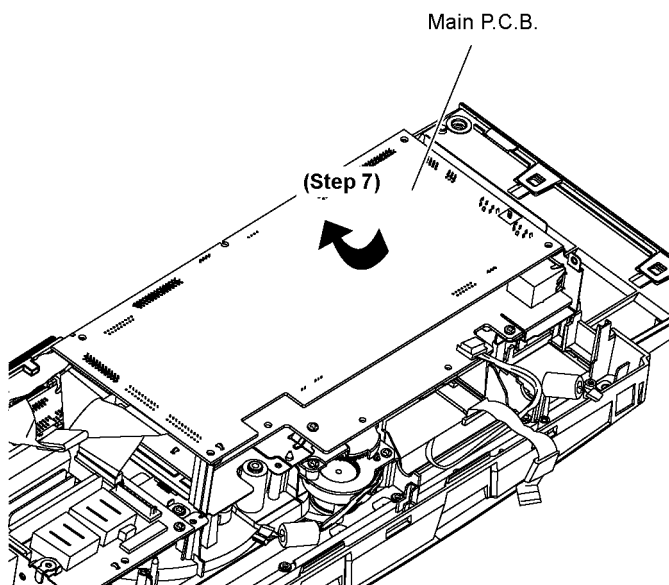
**Caution 3:** During assembling, ensure that ring ferrite core is away from 14P FFC's ferrite core.

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

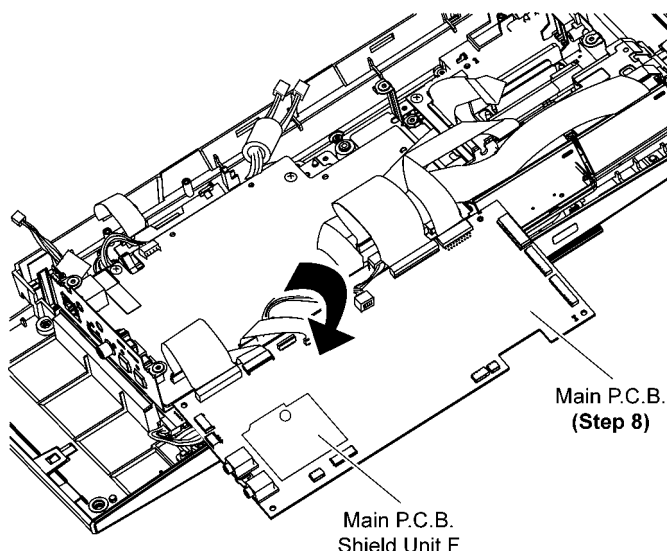


**Step 5** Remove 1 screw on Main P.C.B..

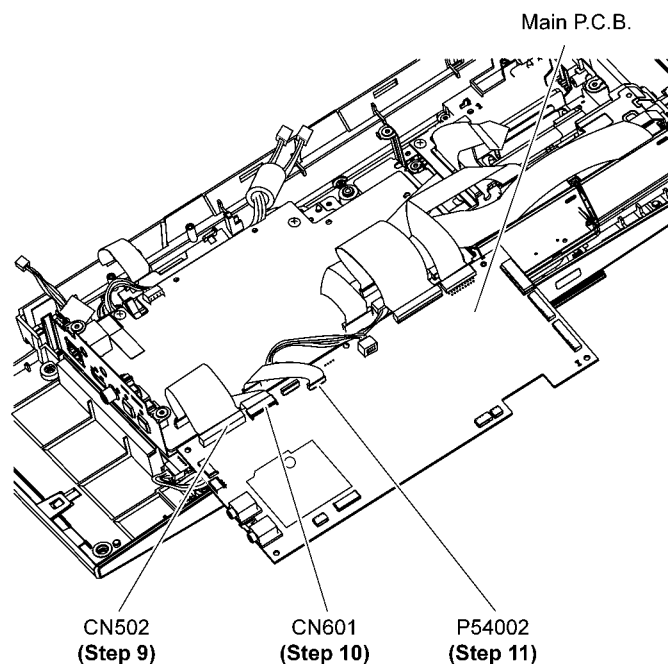
**Step 6** Detach 22P FFC at the connector (CN401) on Main P.C.B..



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



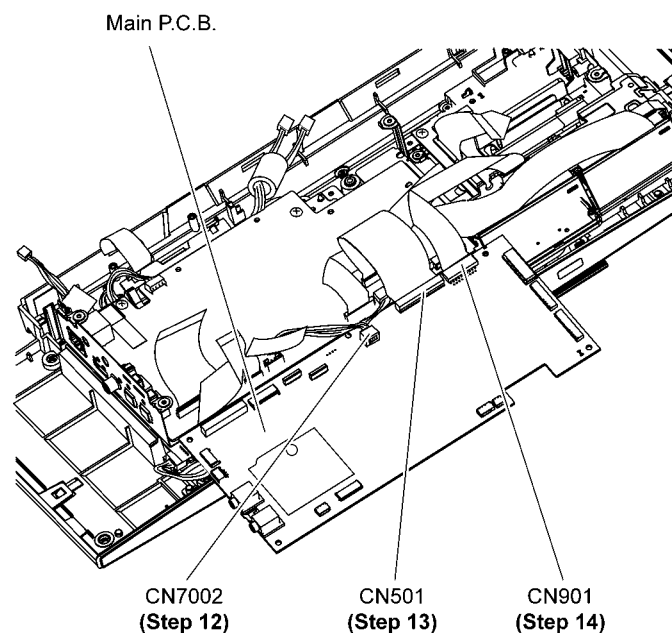
**Step 8** Flip the Main P.C.B. in the direction of arrow shown.  
**Caution:** During replacement of Main P.C.B. Shield Unit F, ensure that it is fully pasted to the Main P.C.B.



**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..

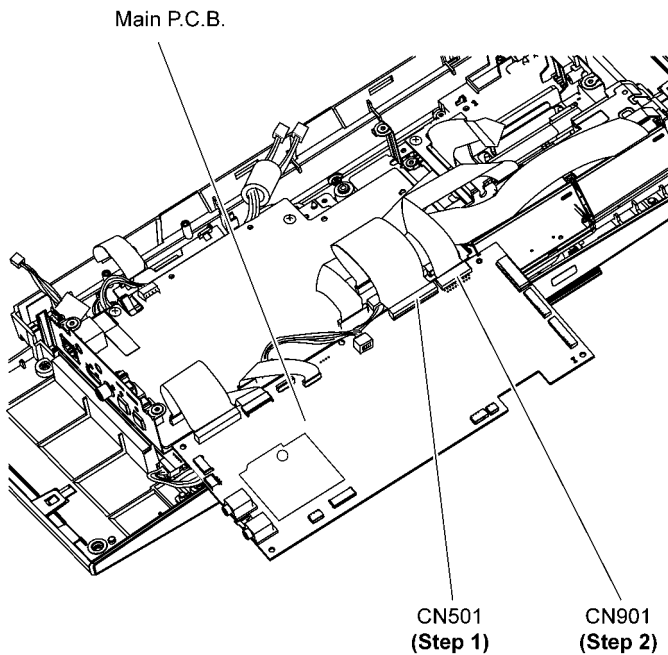
**Step 14** Detach 19P FFC at the connector (CN901) on Main P.C.B..

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

## 9.19. Disassembly of SD USB Wireless Assembly

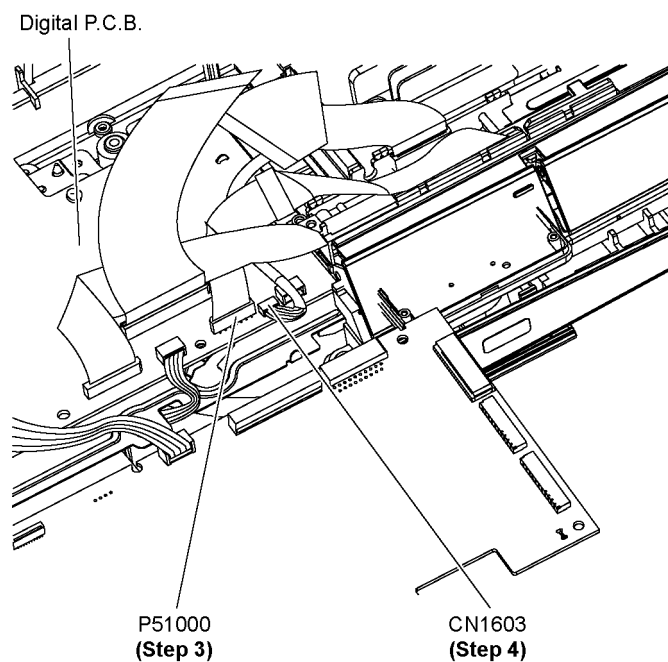
- Follow the (Step 1) to (Step 7) of Item 9.3.
- Follow the (Step 1) to (Step 8) of Item 9.4.

- 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.



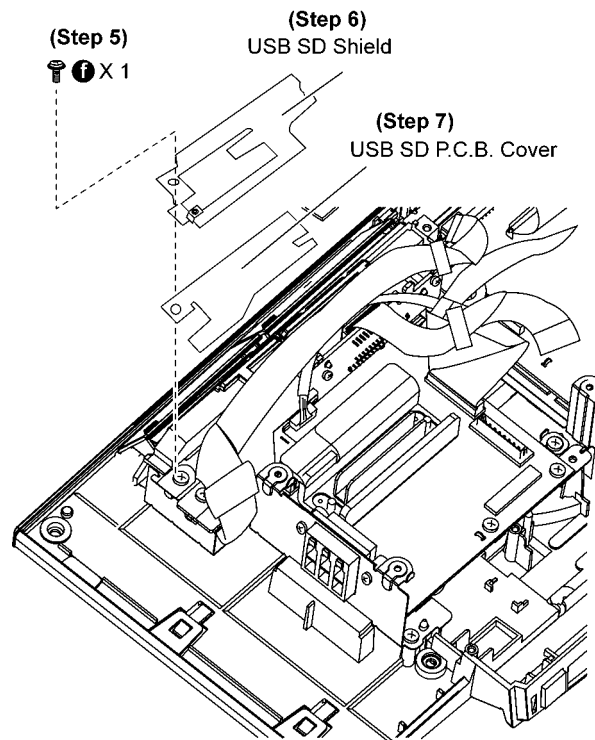
**Step 1** Detach 30P FFC at the connector (CN501) on Main P.C.B..

**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..

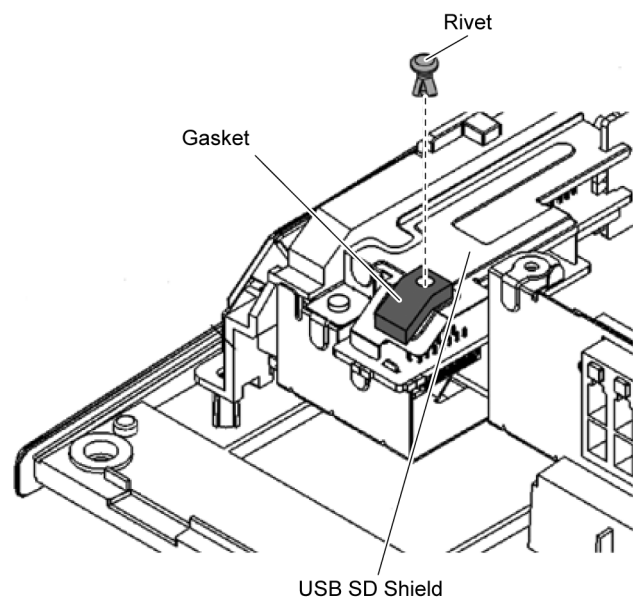
**Step 4** Detach 5P wire at the connector (CN1603) on Digital P.C.B..



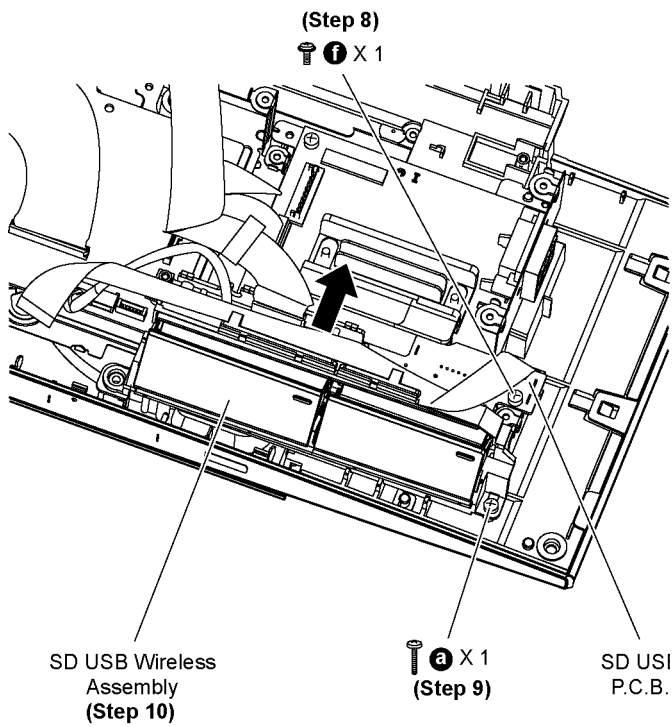
**Step 5** Remove 1 screw.

**Step 6** Remove USB SD shield.

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



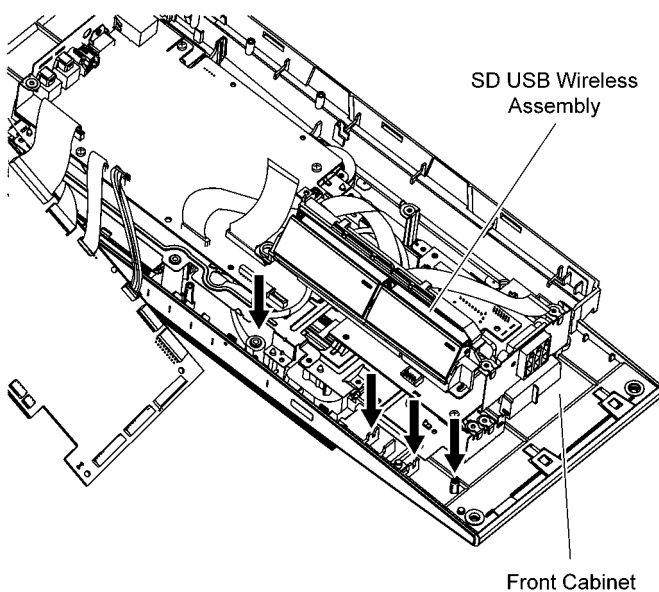
**Caution:** Replace the gasket if broken, ensure that the rivet is fully located & inserted into the USB SD Shield.



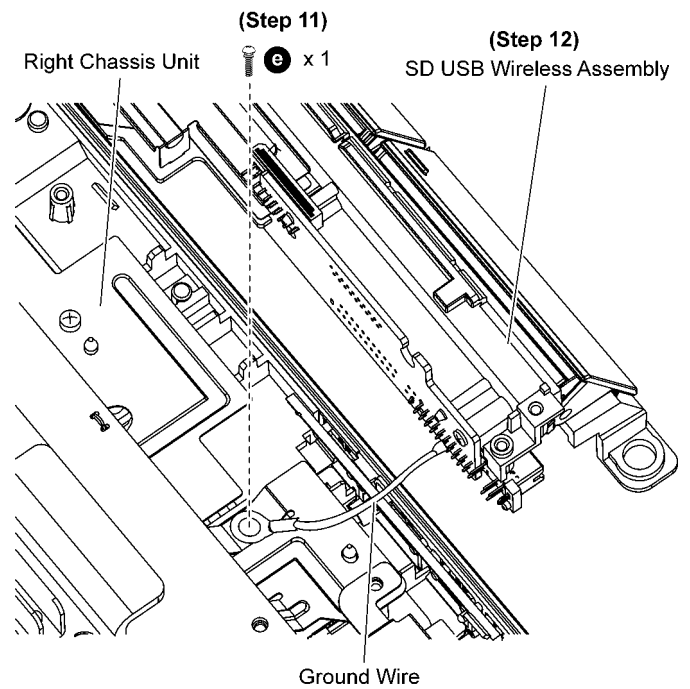
**Step 8** Remove 1 screw on SD USB P.C.B..

**Step 9** Remove 1 screw at SD USB Wireless Assembly.

**Step 10** Lift up SD USB Wireless Assembly.



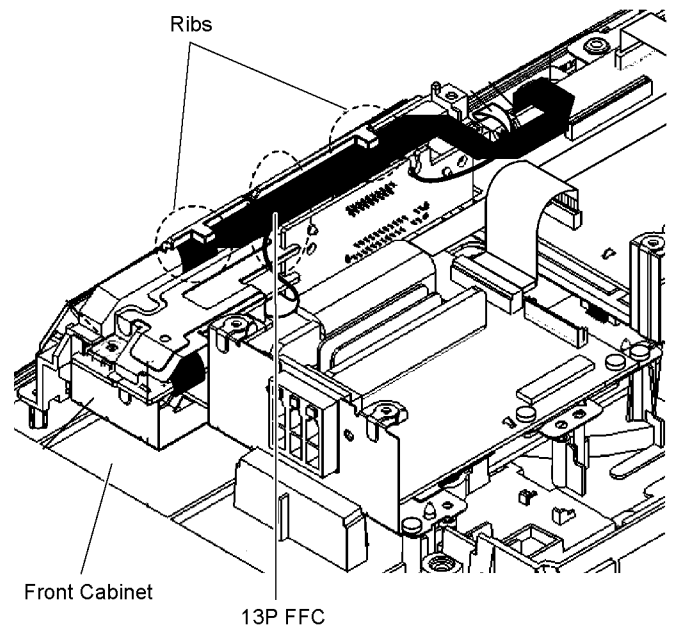
**Caution:** During assembling, ensure that SD USB Wireless Assembly is properly located and fully fixed onto front cabinet.



**Step 11** Remove 1 screw.

**Step 12** Remove SD USB Wireless Assembly.

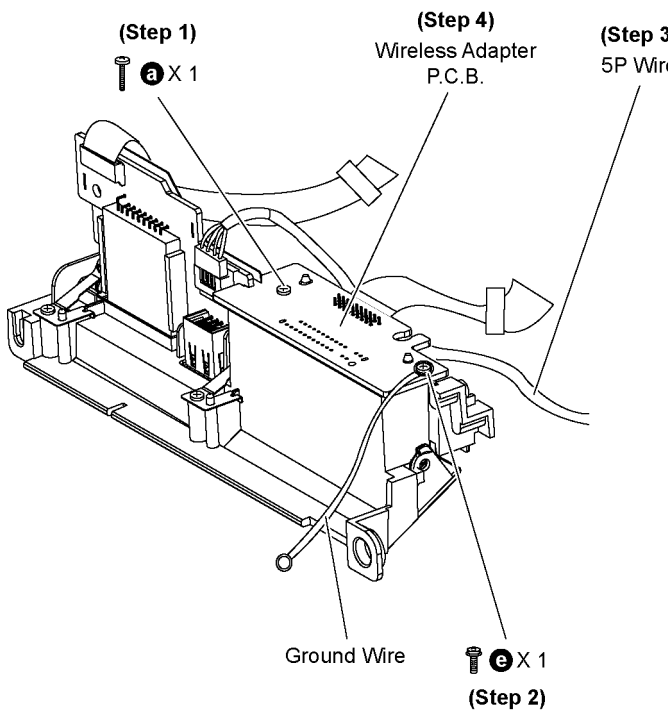
**Caution:** During assembling, ensure that ground wire is screwed on right chassis unit properly.



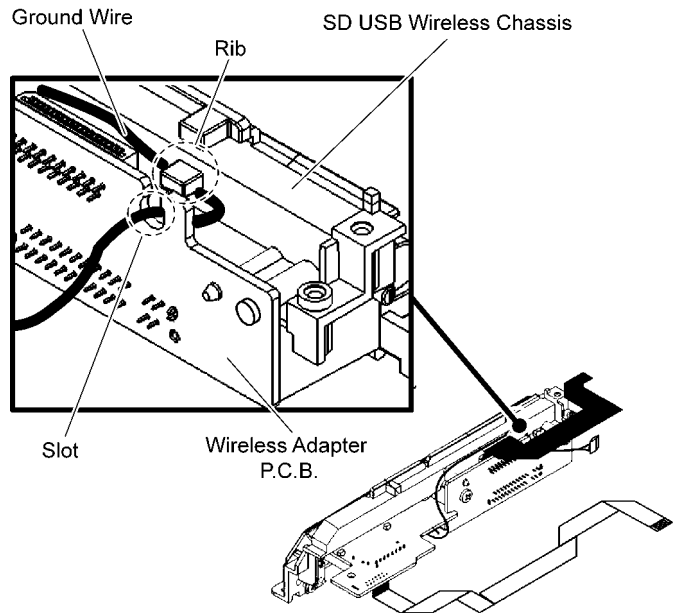
**Caution:** During assembling, ensure that 13P FFC is properly dressed under Ribs of front cabinet.

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

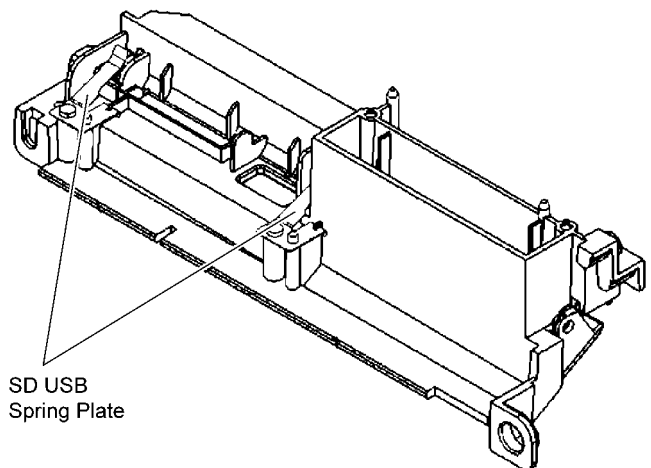
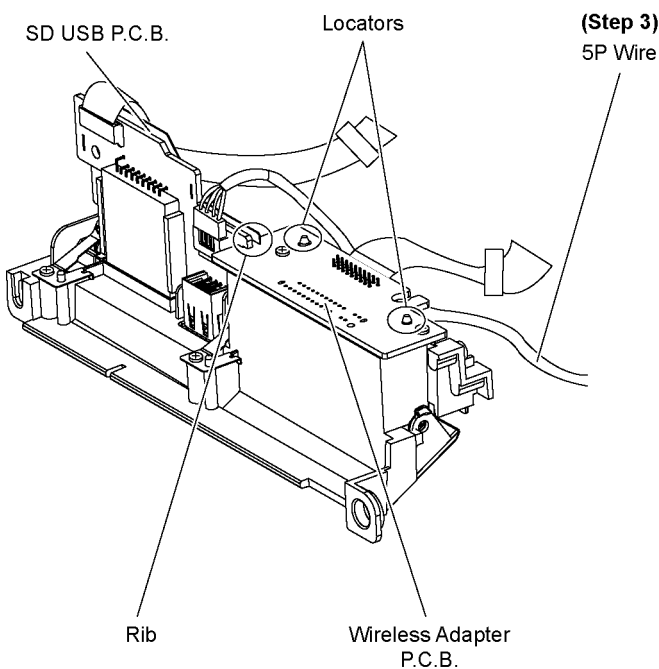
- Follow the (Step 1) to (Step 7) of Item 9.3.
- Follow the (Step 1) to (Step 8) of Item 9.4.
- Follow the (Step 1) to (Step 7) of Item 9.5.1.
- Follow the (Step 1) to (Step 3) of Item 9.8.1.
- Follow the (Step 1) to (Step 3) of Item 9.9.
- Follow the (Step 1) to (Step 9) of Item 9.10.
- Follow the (Step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



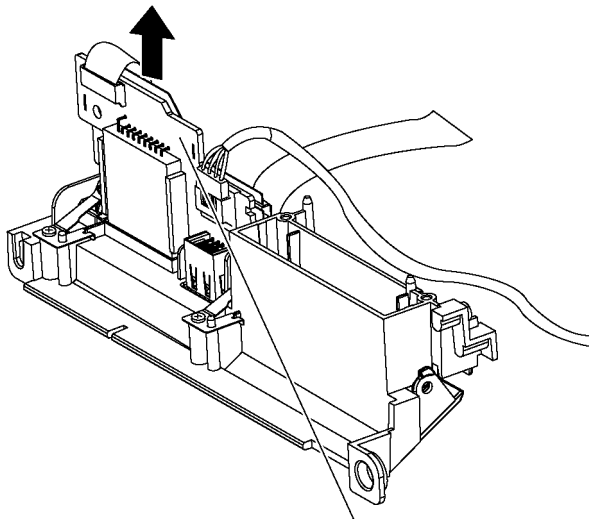
**Caution:** During assembling, ensure that 5P wire is dressed under SD USB wireless chassis's rib and through the Wireless Adapter P.C.B.'s slot properly.



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

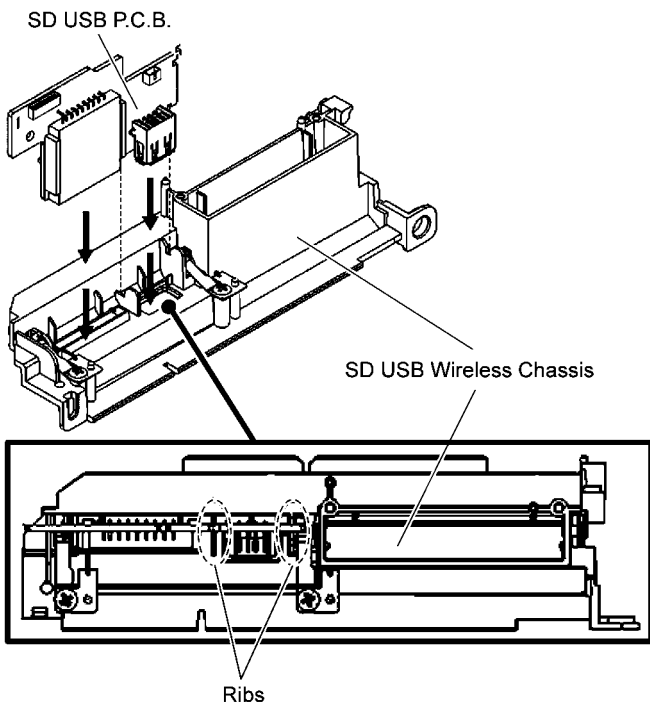
## 9.21. Disassembly of SD USB P.C.B.

- 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.

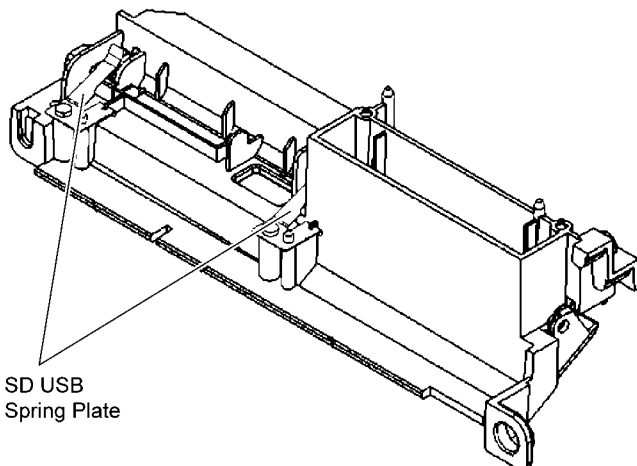


SD USB P.C.B.  
(Step 1)

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



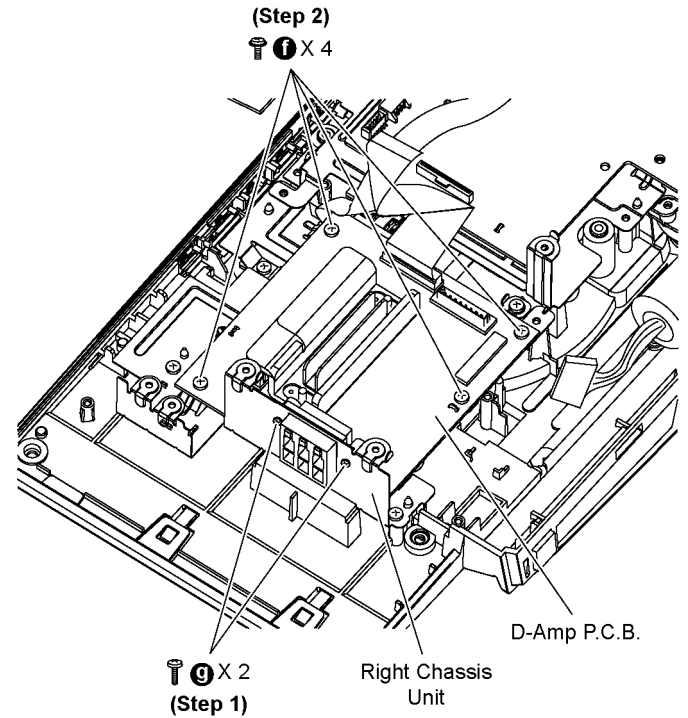
**Caution:** During assembling, ensure that SD USB P.C.B. is seated properly onto the SD USB Wireless Chassis.



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

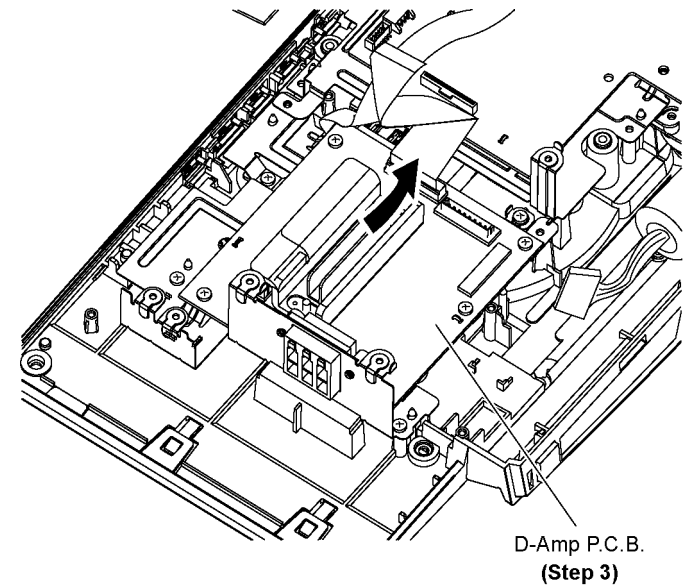
## 9.22. Disassembly of D-Amp P.C.B.

- 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.

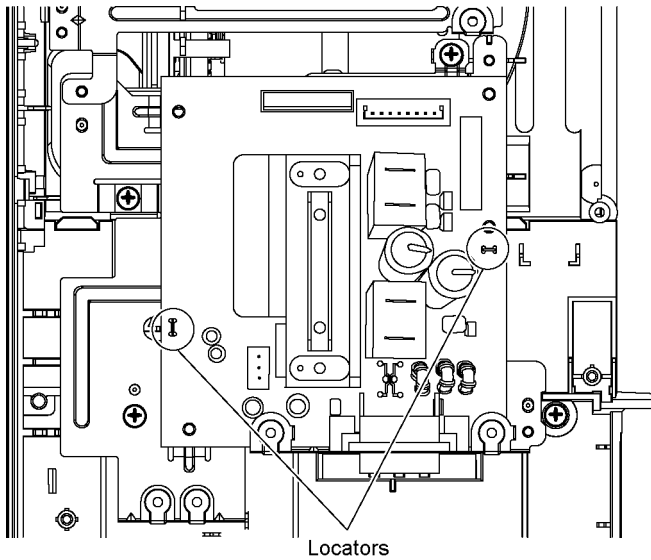


**Step 1** Remove 2 screws at Right Chassis Unit.

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



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

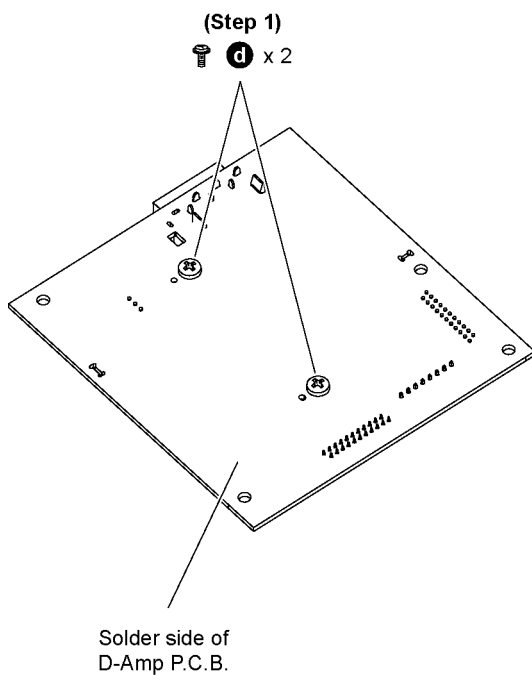


**Caution:** During assembling, ensure that D-Amp P.C.B. is seated properly at the locator.

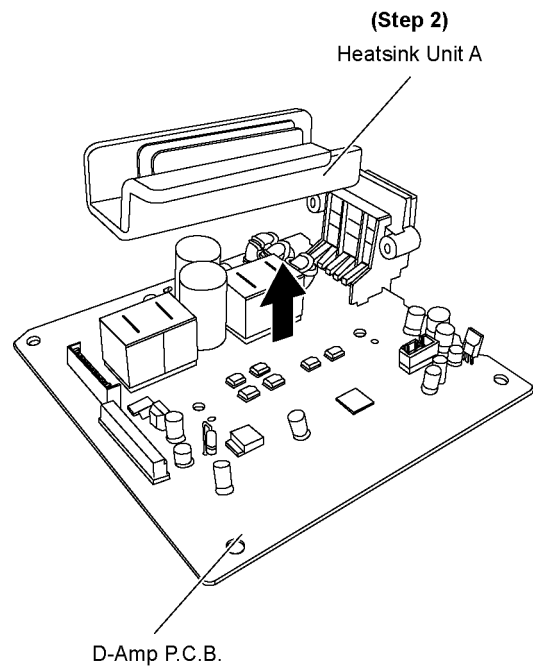
## 9.23. Replacement of Audio Amplifier Driver IC (IC5001)

- 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.

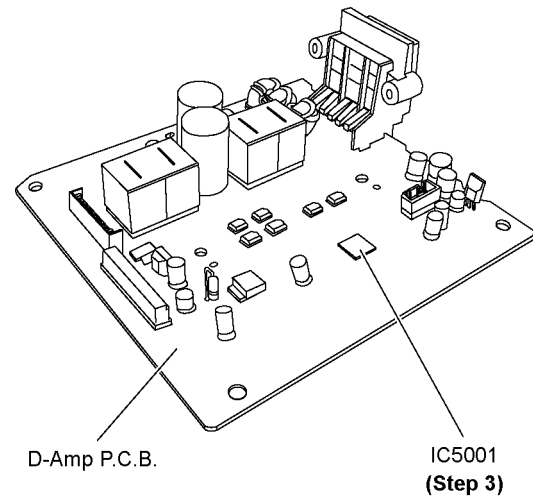
### 9.23.1. Disassembly of Audio Amplifier Driver IC (IC5001)



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



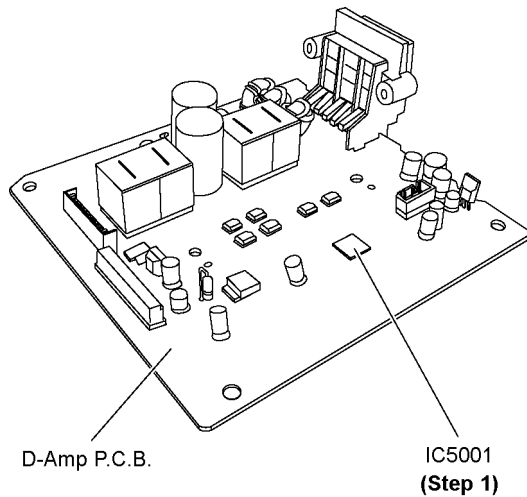
**Step 2** Lift up heatsink unit A.



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

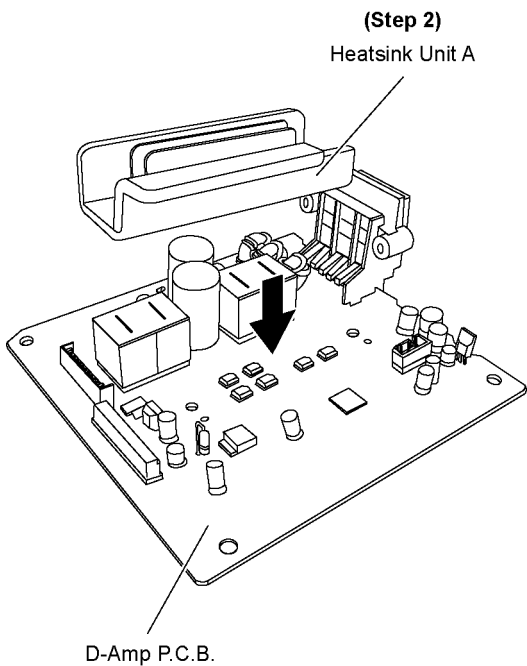
**Step 4** Remove Audio Amplifier Driver IC (IC5001).

### 9.23.2. Assembly of Audio Amplifier Driver IC (IC5001)

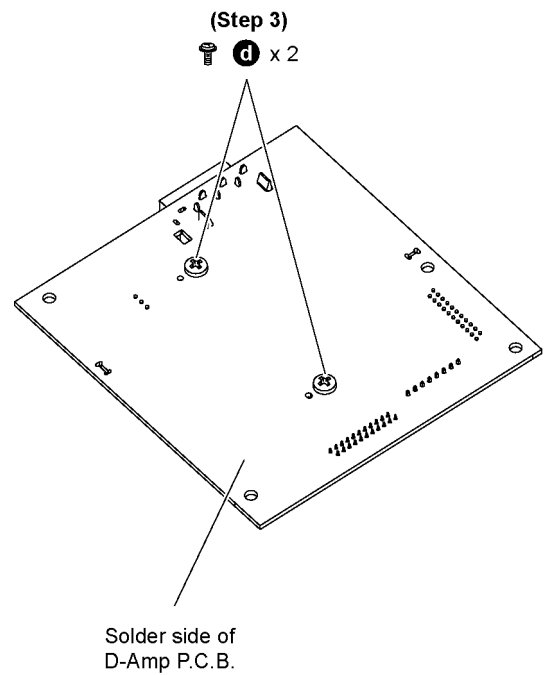


**Step 1** Mount the Audio Amplifier Driver IC (IC5001) onto D-Amp P.C.B..

**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..

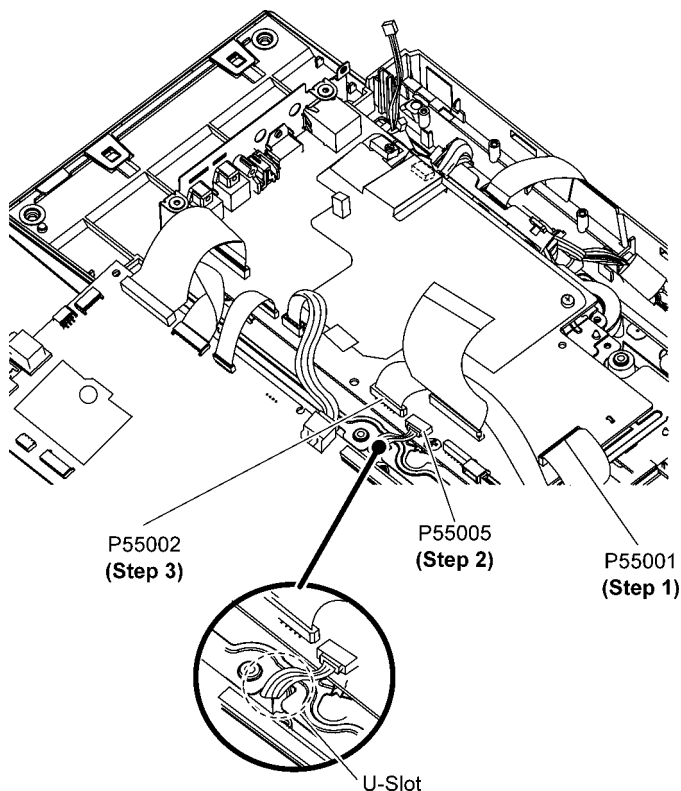


**Step 3** Screw 2 screws on the solder side of D-Amp P.C.B..

### 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.

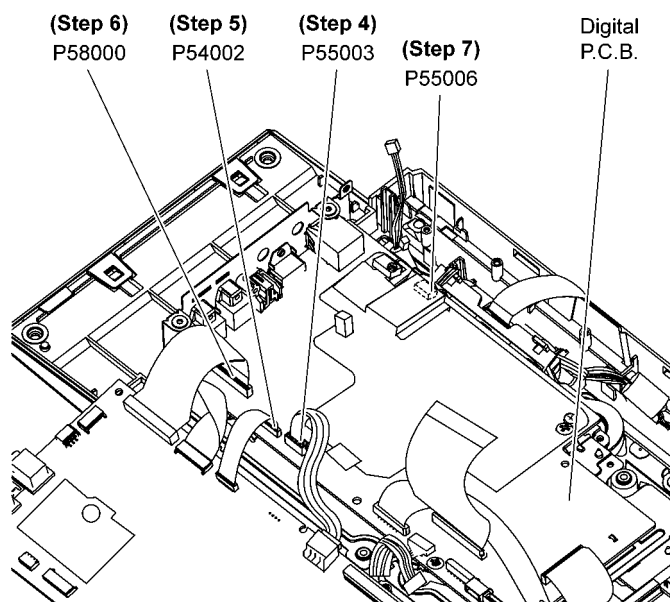


**Step 1** Detach 45P FFC at the connector (P55001) on Digital P.C.B..

**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..

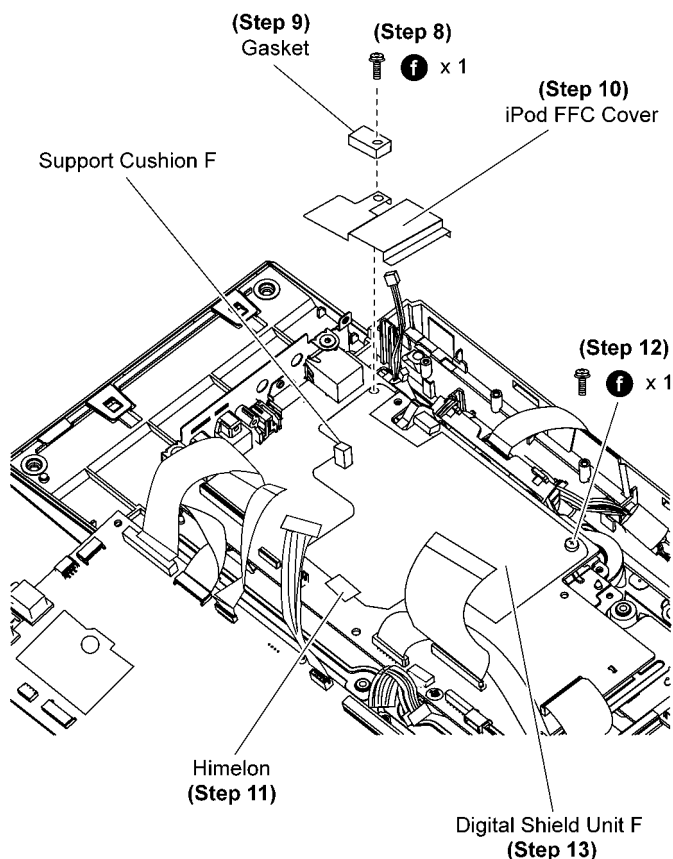


**Step 4** Detach 4P wire at the connector (P55003) on Digital P.C.B..

**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.

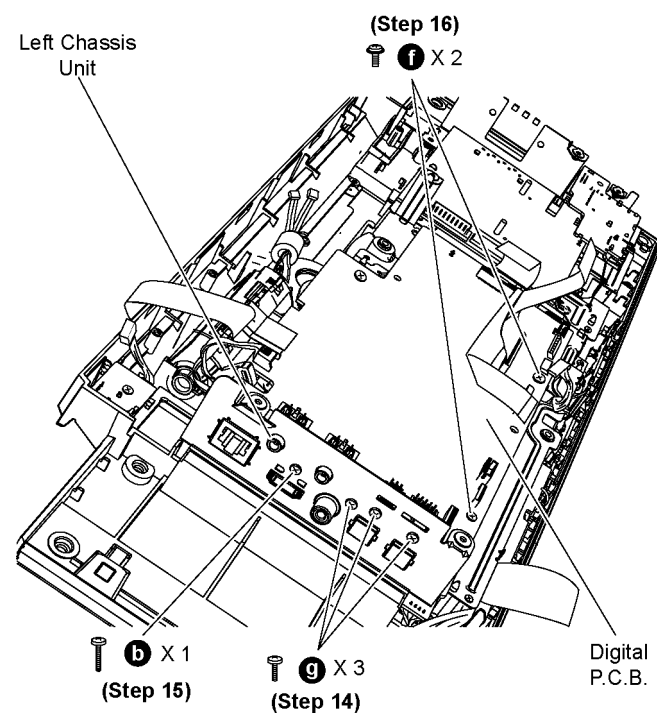
**Step 10** Remove iPod FFC Cover.

**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.

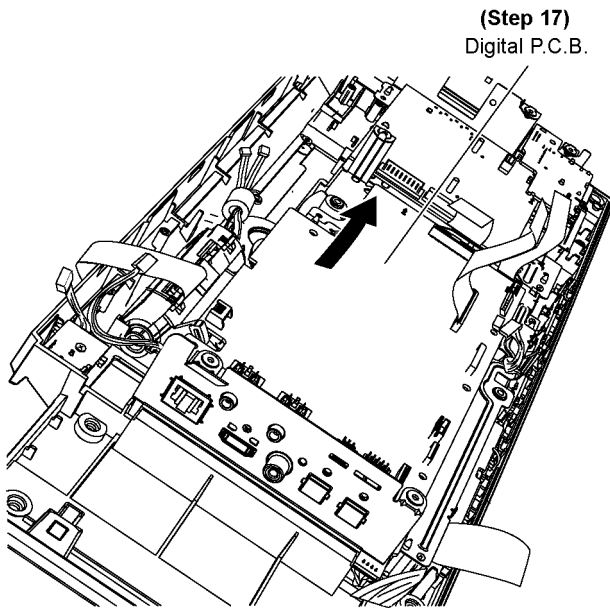
**Caution:** Replace the support cushion F if it is broken.



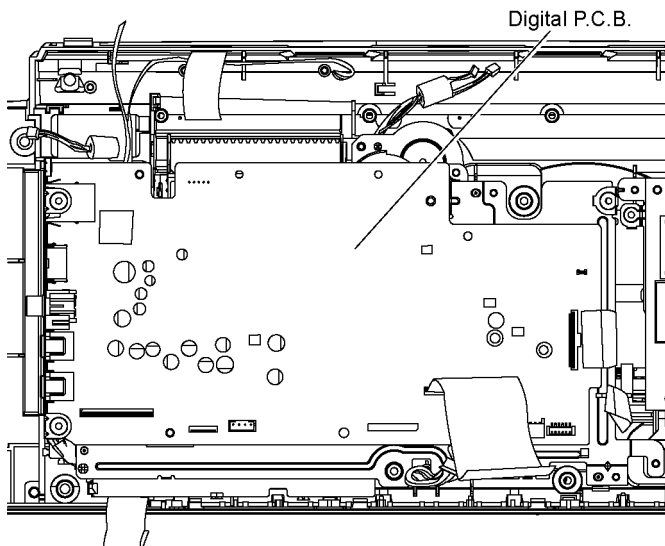
**Step 14** Remove 2 screws at Left Chassis Unit.

**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..



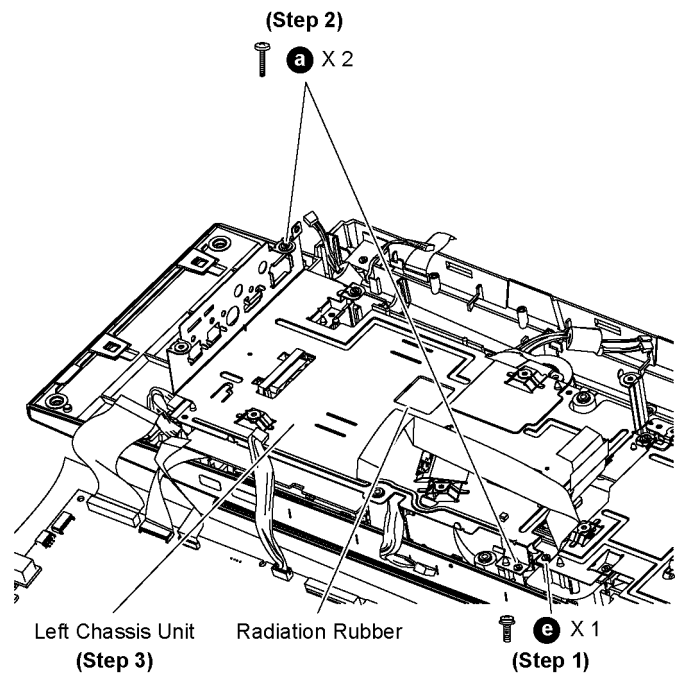
**Caution:** During assembling, ensure that Digital P.C.B. is seated properly at the locator.

## 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.

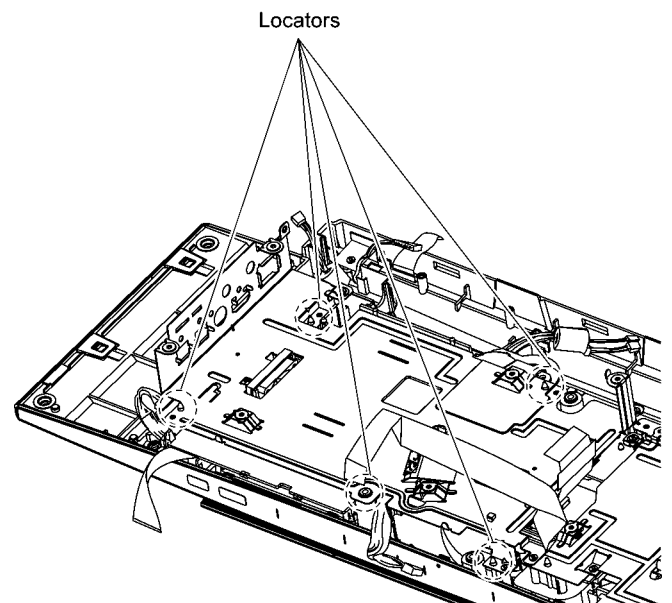


**Step 1** Remove 1 screw at Left Chassis Unit.

**Step 2** Remove 2 screws at Left Chassis Unit.

**Step 3** Remove Left Chassis Unit.

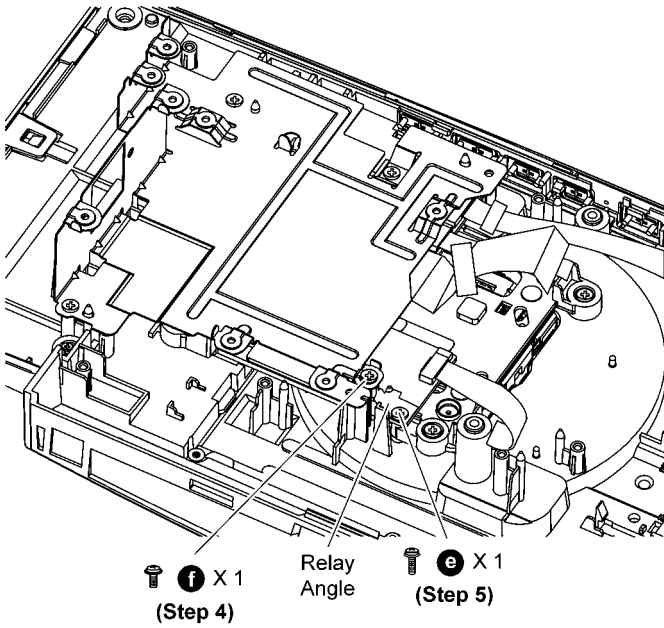
**Caution:** During disassembling, do not remove radiation rubber, replace it if broken.



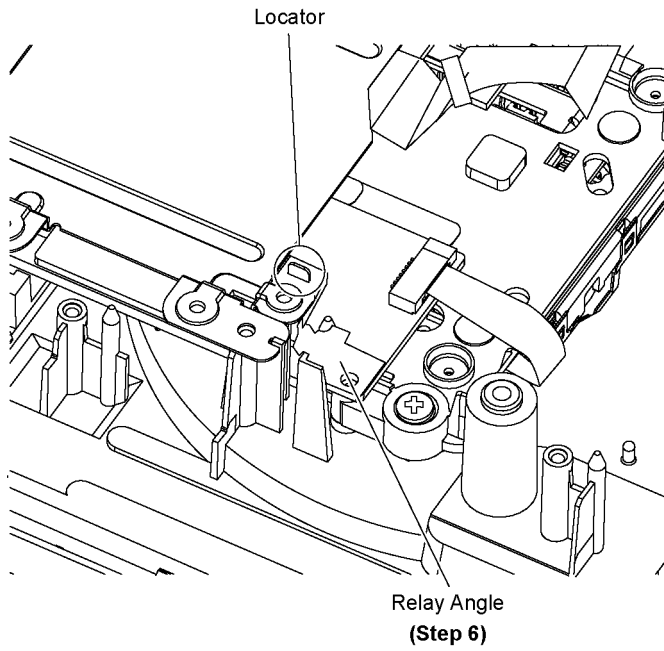
**Caution:** During assembling, ensure that Left Chassis Unit is seated properly at the locator.

- Disassembly of Right Chassis Unit.

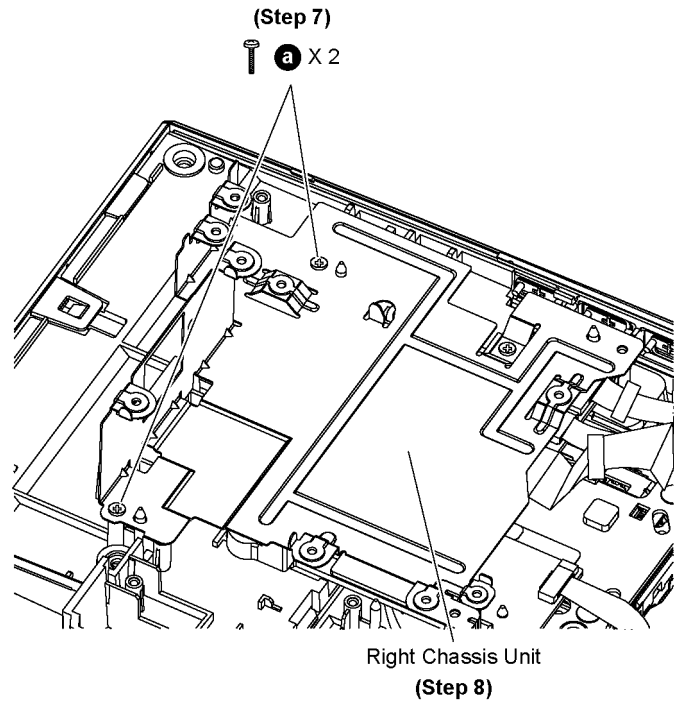
**Caution:** During assembling, ensure that Relay Angle is seated properly at the locator.



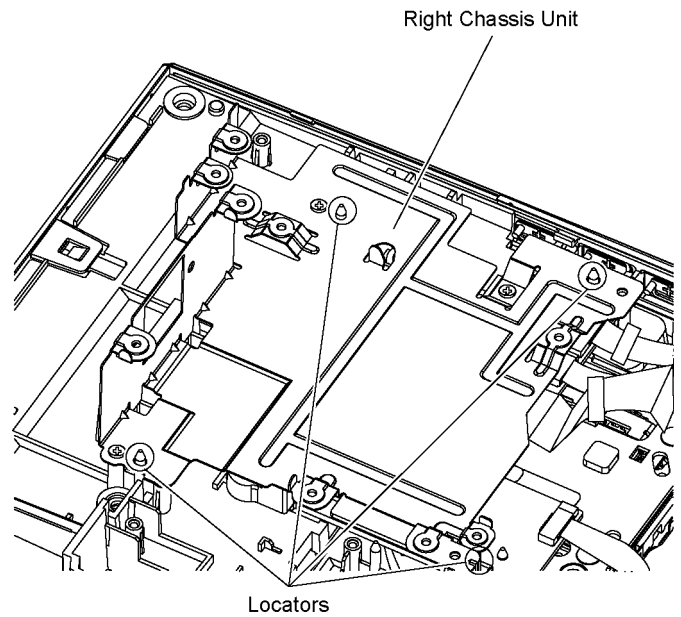
**Step 4** Remove 1 screw at Relay Angle.  
**Step 5** Remove 1 screw at Relay Angle.



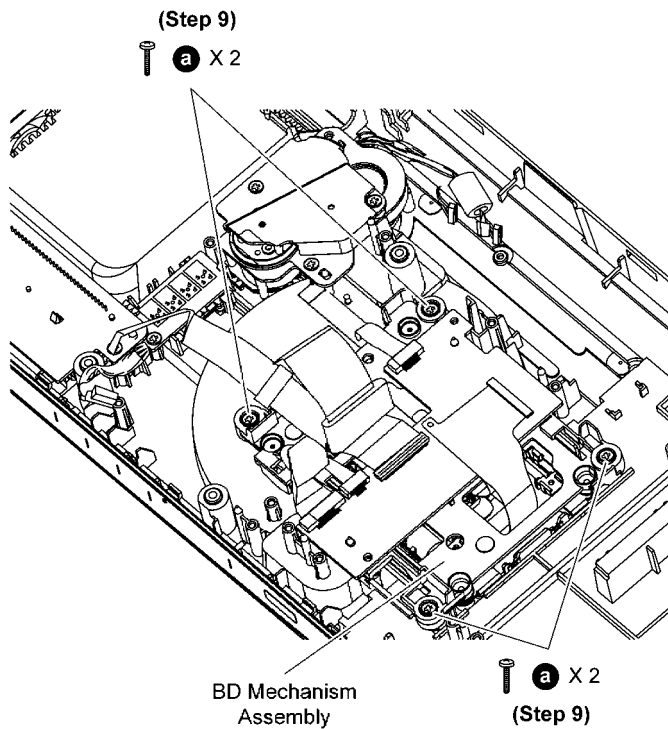
**Step 6** Remove Relay Angle.



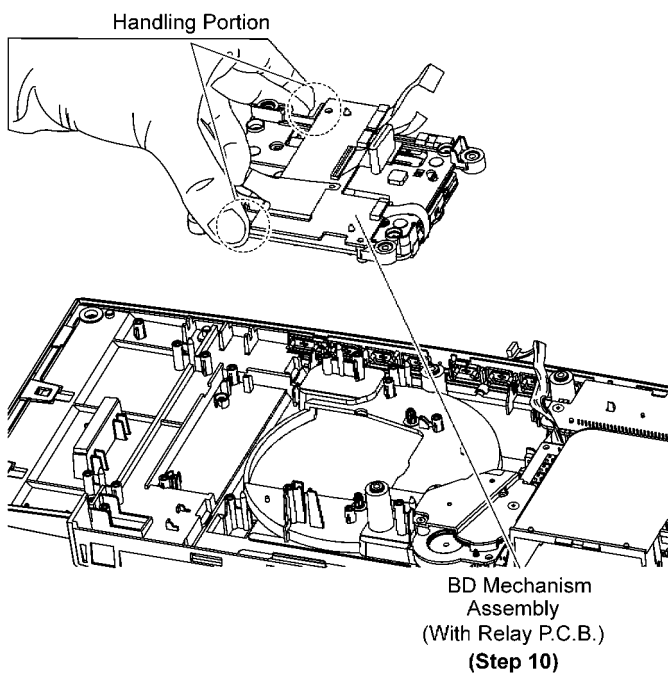
**Step 7** Remove 2 screws at Right Chassis Unit.  
**Step 8** Remove Right Chassis Unit.



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

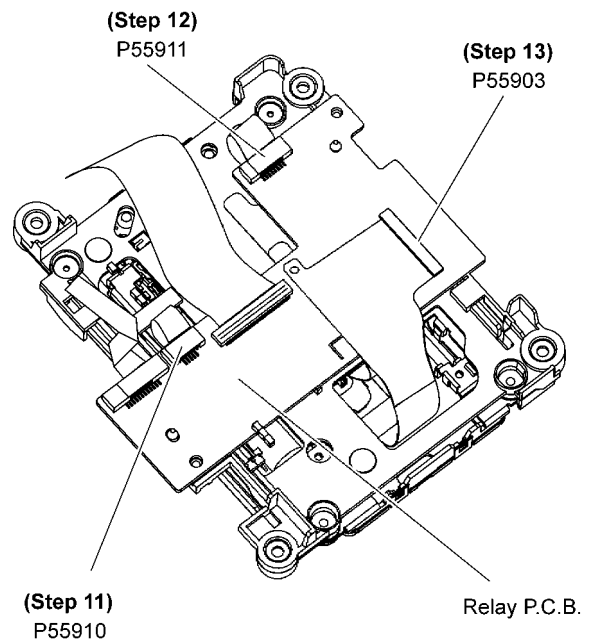


**Step 9** Remove 4 screws.



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

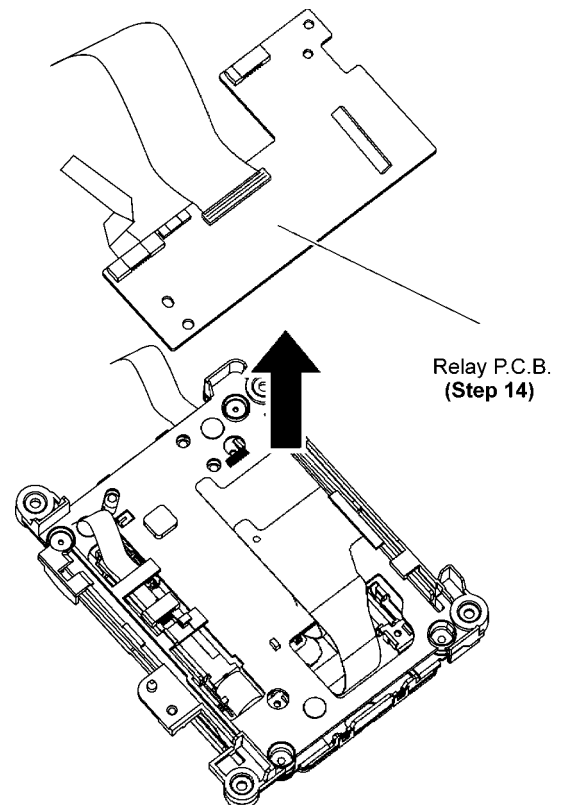
• Disassembly of Relay P.C.B.



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

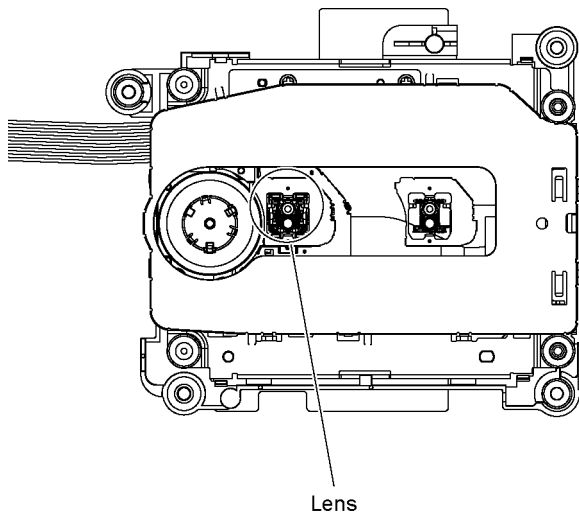
**Step 12** Detach 8P FFC at the connector (P55911) on Relay P.C.B..

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

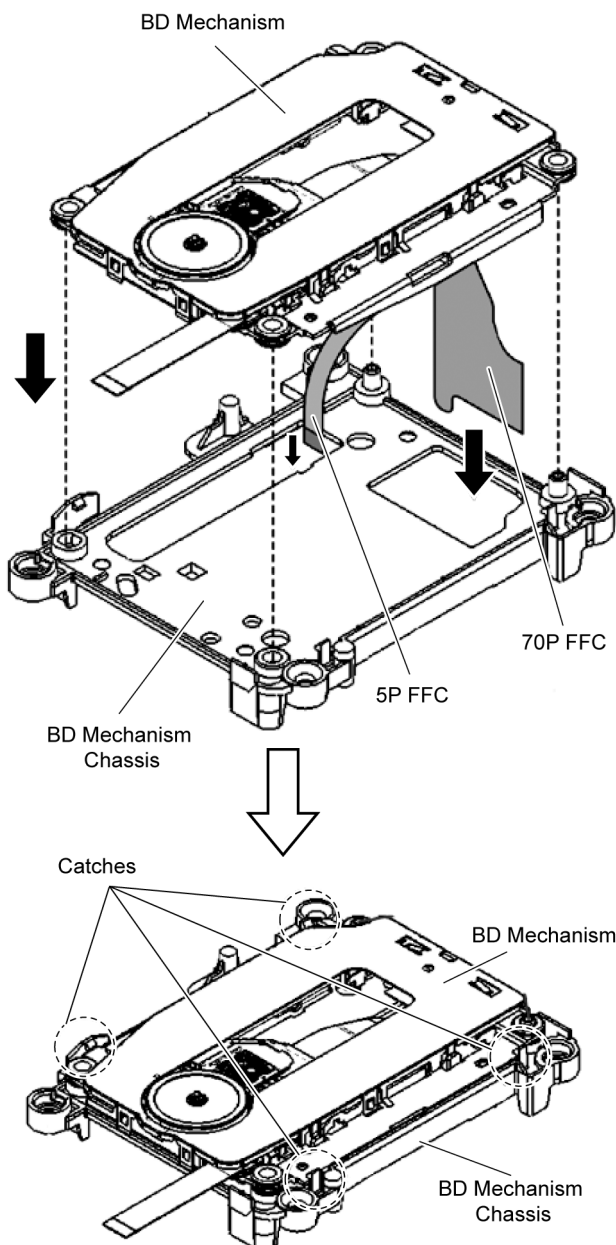


**Step 14** Remove Relay P.C.B..

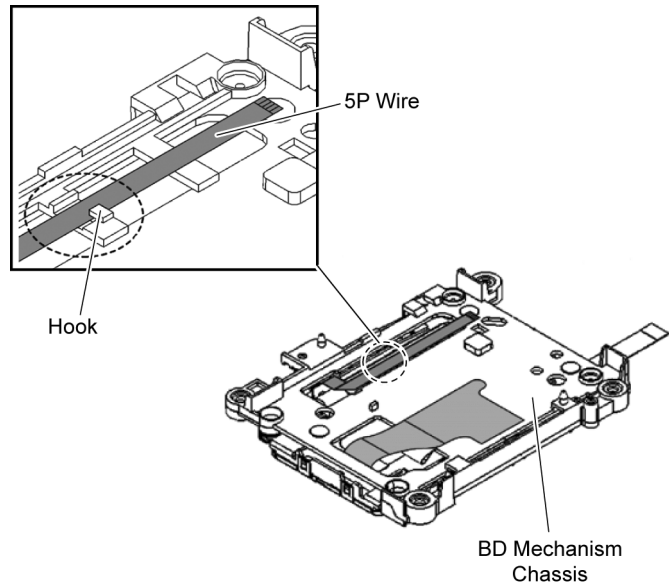
**Caution 1:** Handle at the handling portion when removing the BD Mechanism Assembly.



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



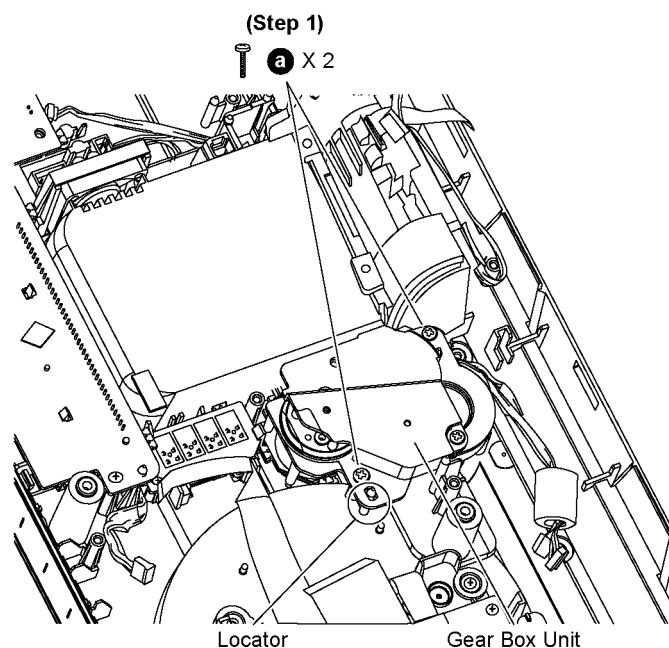
**Caution 3:** During replacement of BD Mechanism, ensure that BD Mechanism is seated and caught onto the BD Mechanism Chassis properly.



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

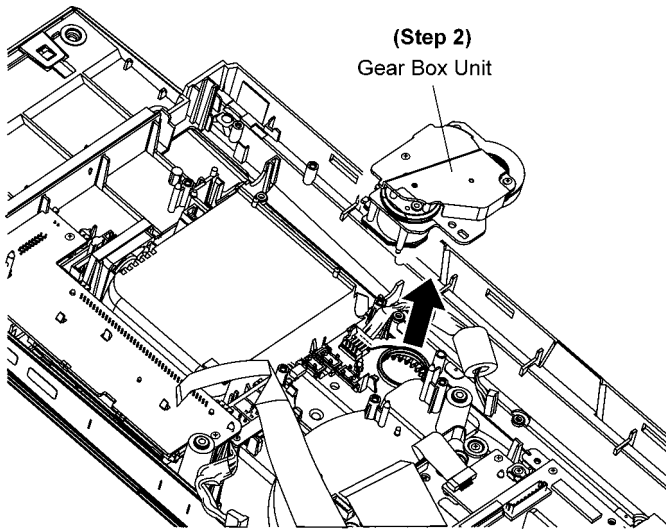
## 9.26. Disassembly of Motor P.C.B.

- 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.

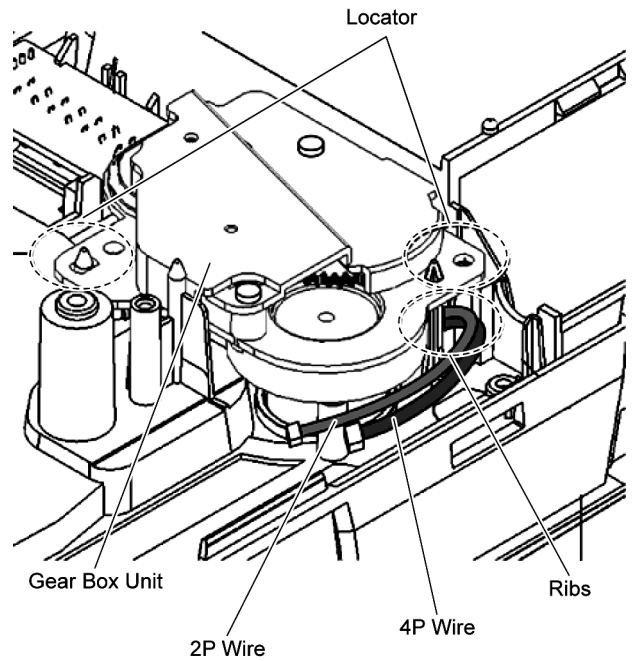


**Step 1** Remove 2 screws at Gear Box Unit.

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



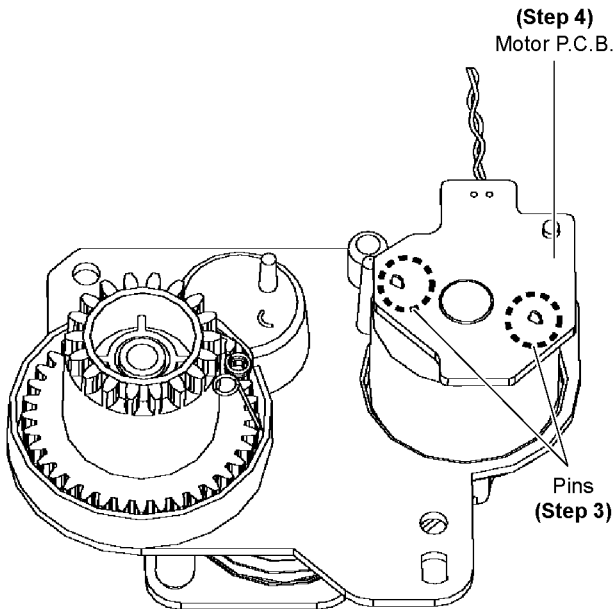
**Step 2** Remove Gear Box Unit.



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

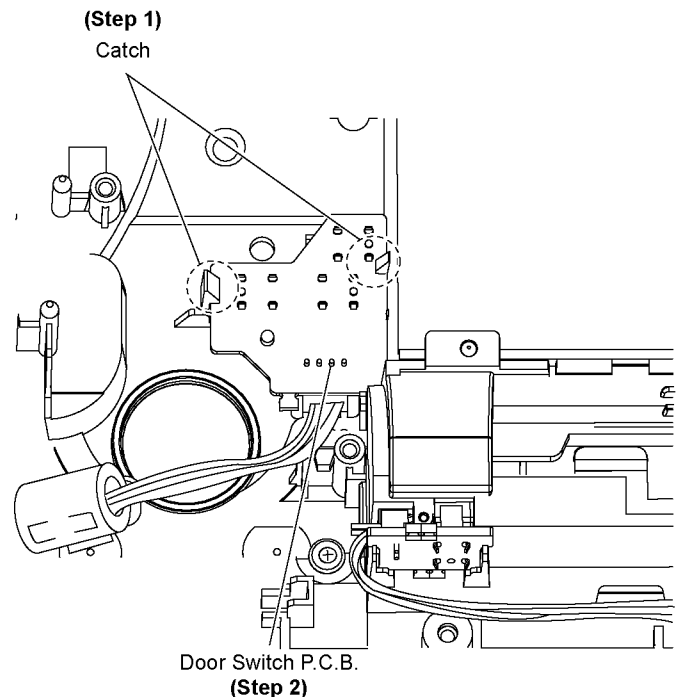
## 9.27. Disassembly of Door Switch P.C.B.

- 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.



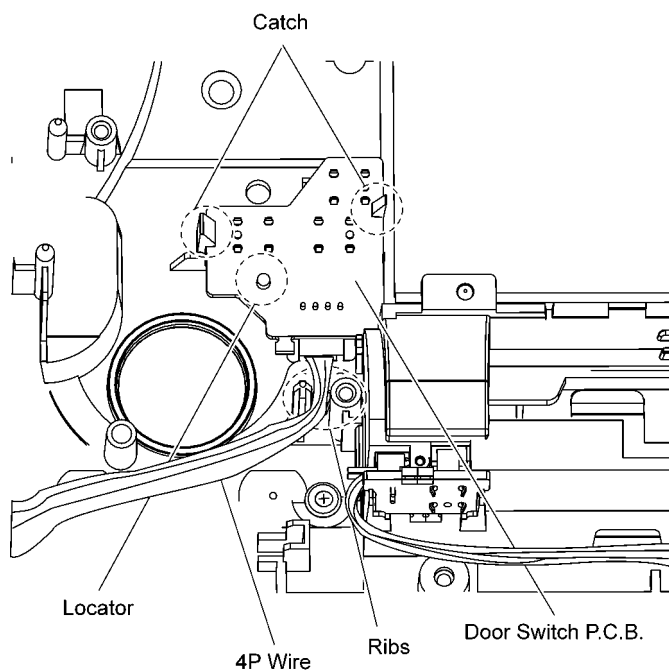
**Step 3** Desolder pins of Motor P.C.B..

**Step 4** Remove Motor P.C.B..



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

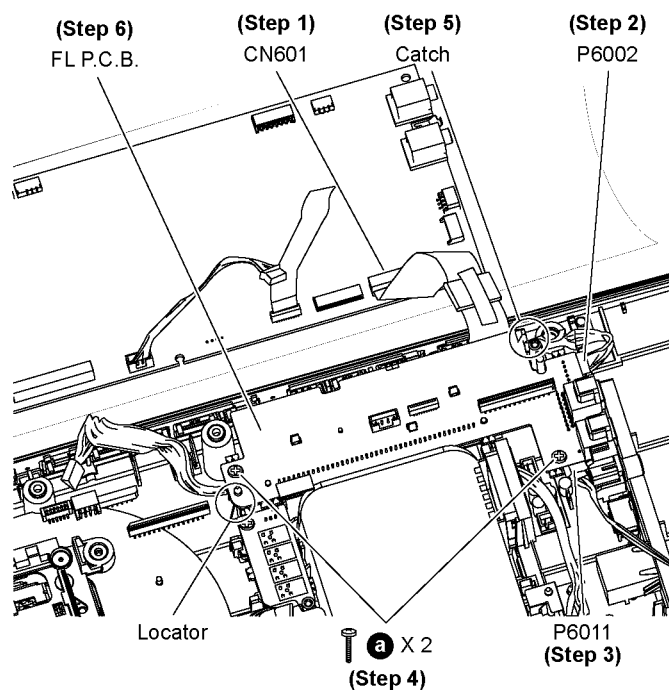
## Step 2 Remove Door Switch P.C.B..



**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..

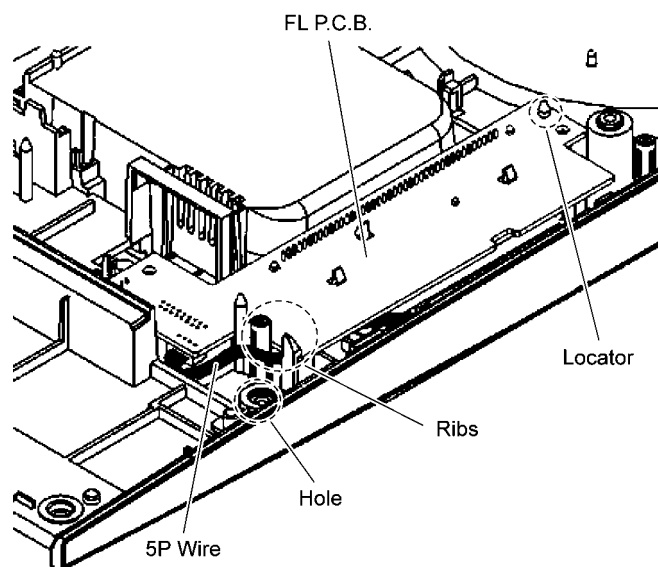
**Step 2** Detach 5P wire at the connector (P6002) on FL P.C.B..

**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..

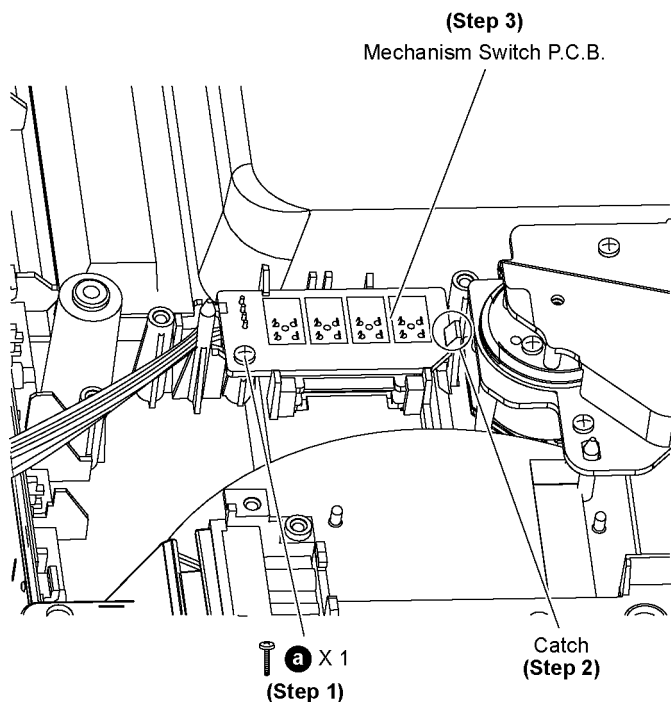


**Caution 1:** During assembling, ensure that FL P.C.B. is seated properly at the locator.

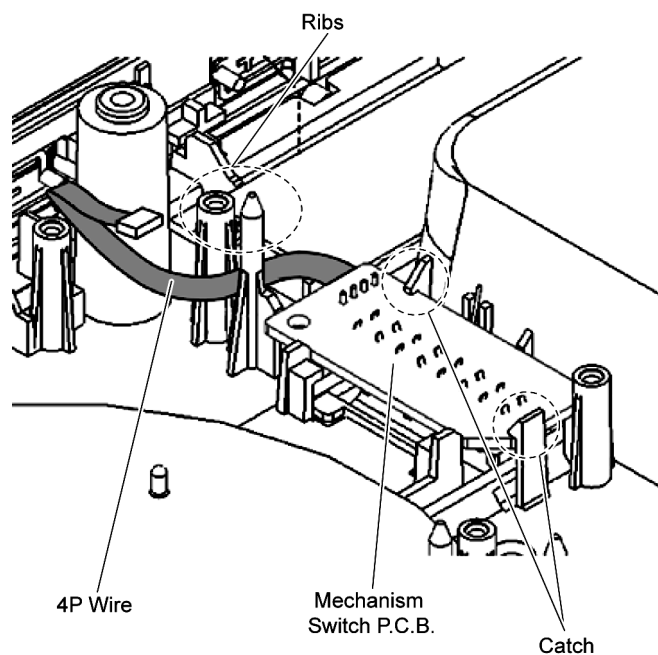
**Caution 2:** During assembling, ensure that 5P wire is dressed between ribs of front cabinet properly & avoid covering the hole.

## 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..

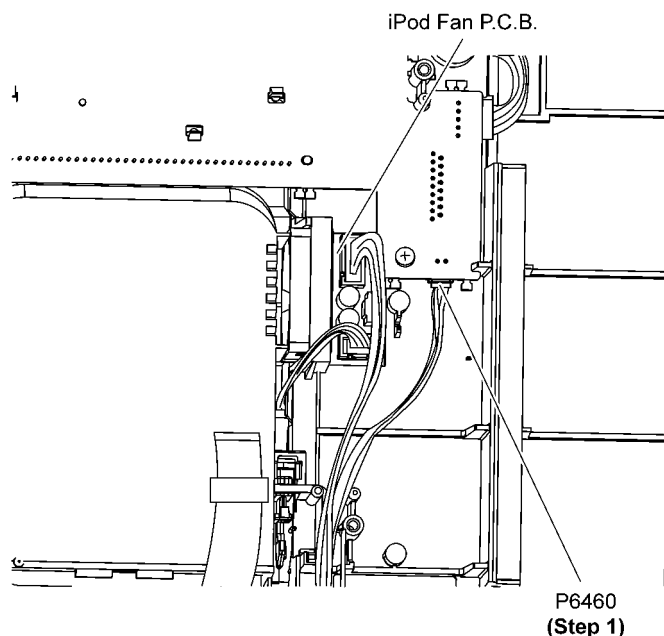


**Caution:** During assembling, ensure that Mechanism Switch P.C.B. is fully caught and 4P wire is well dressed between 2 ribs.

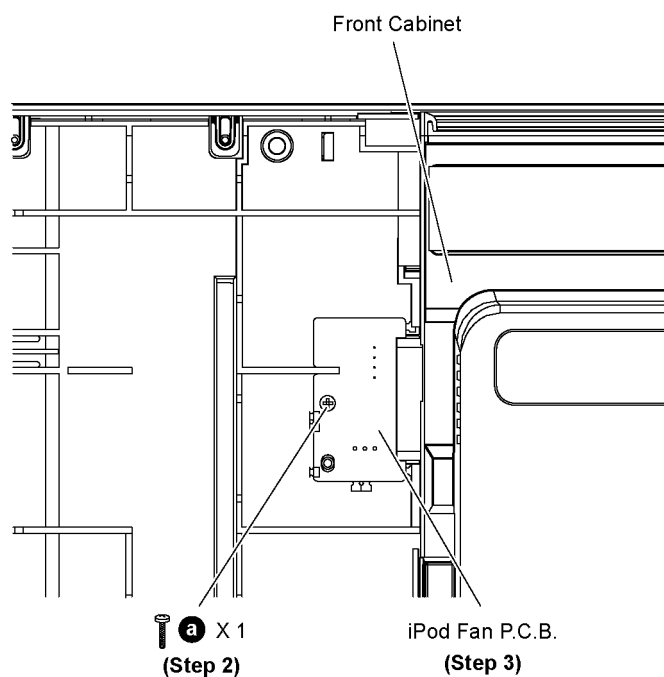
## 9.30. Disassembly of iPod Fan P.C.B.

- 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.

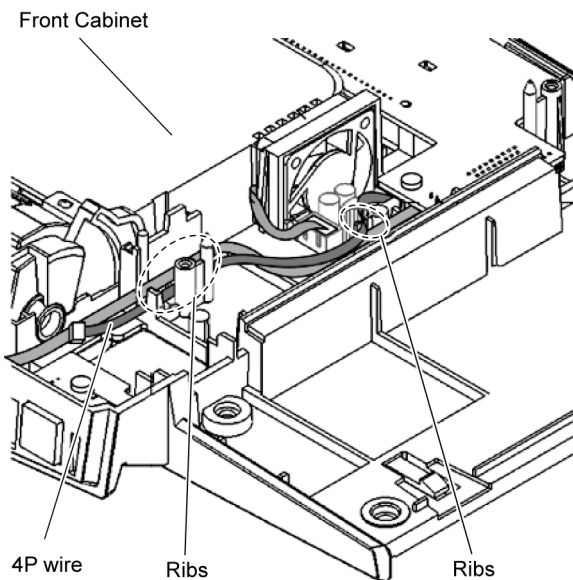
- Follow the (Step 1) to (Step 3) of Item 8.25.



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



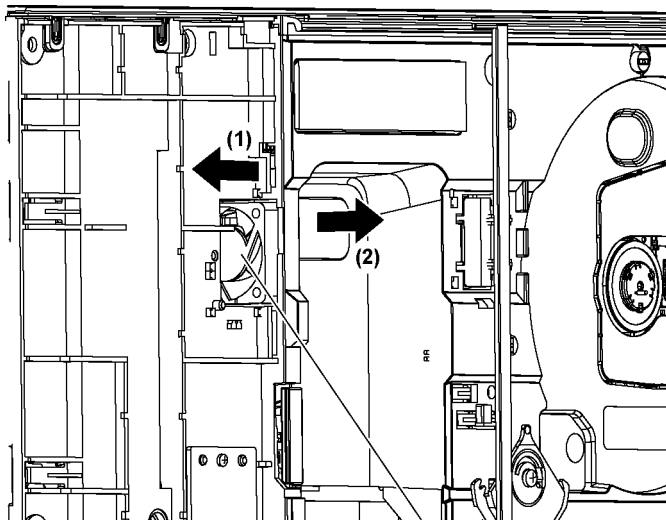
- Step 2** Remove 1 screw on iPod Fan P.C.B..  
**Step 3** Remove iPod Fan P.C.B..



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

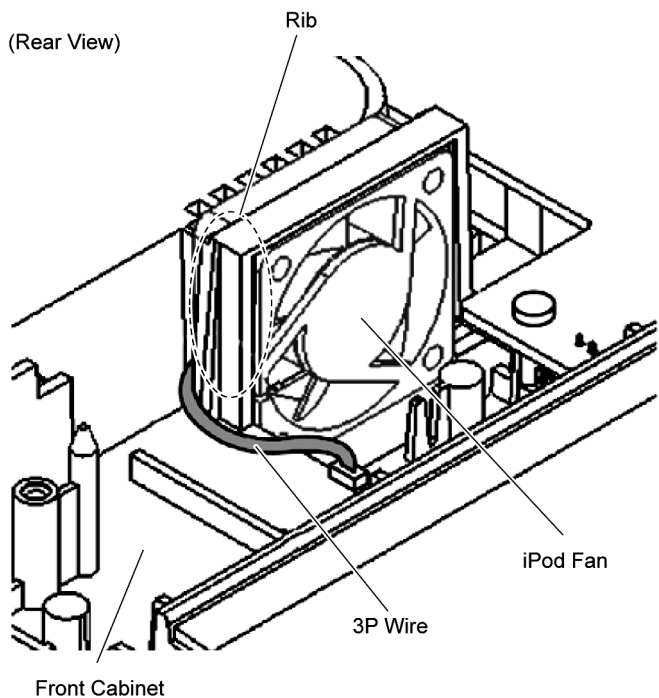
### 9.31. Disassembly of iPod Fan

- 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.



iPod Fan  
(Step 1)

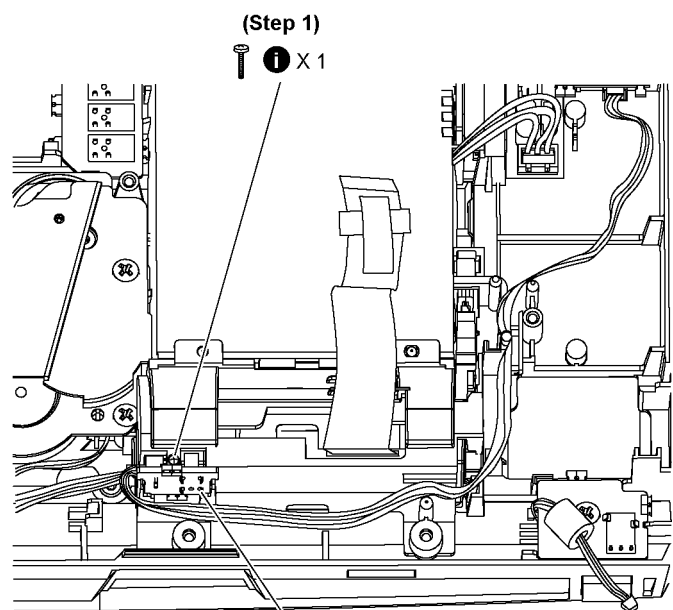
**Step 1** Remove iPod Fan in the direction of arrow (1) and (2) shown.



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

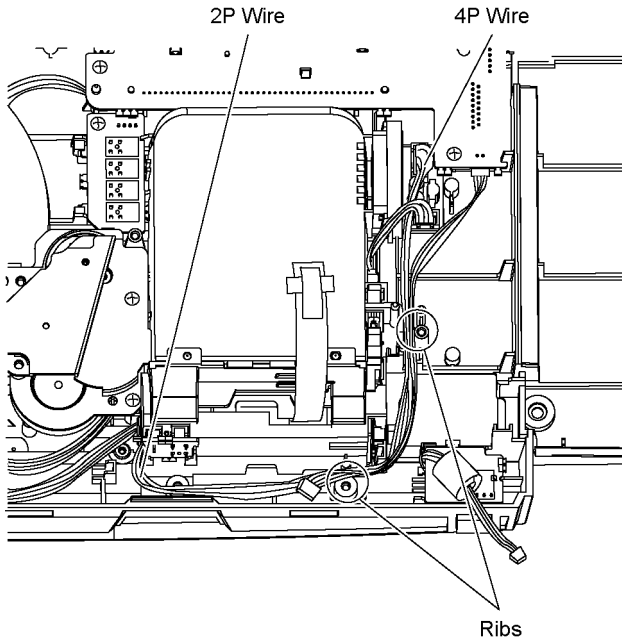
### 9.32. Disassembly of iPod Switch P.C.B.

- 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..

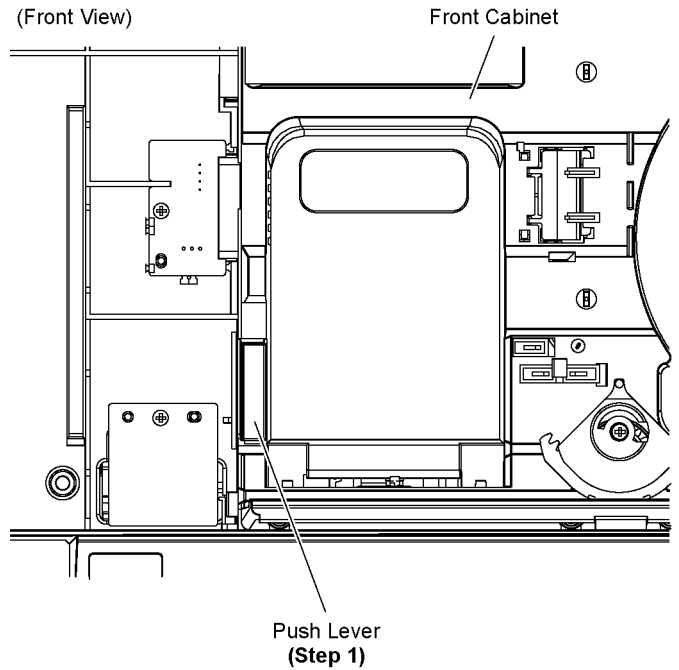
**Step 2** Remove iPod Switch P.C.B..



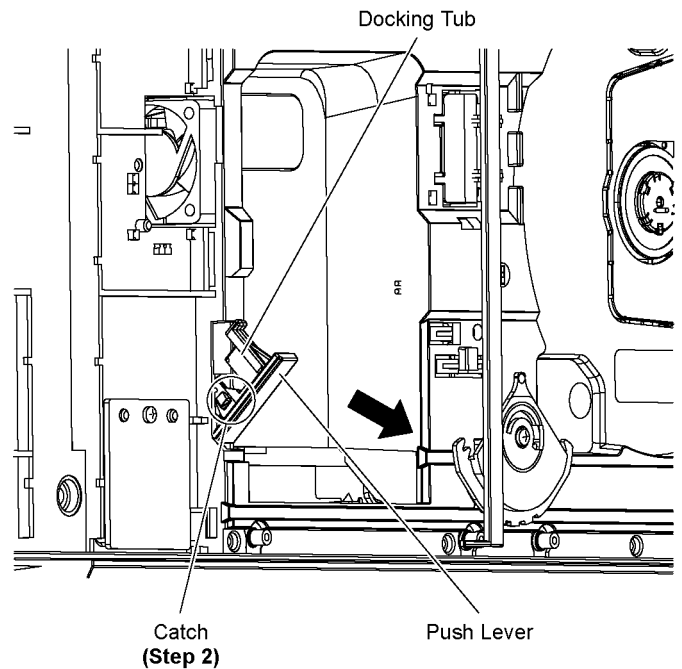
**Caution:** During assembling, ensure that 2P wire are dressed between the ribs of front cabinet.

### 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.

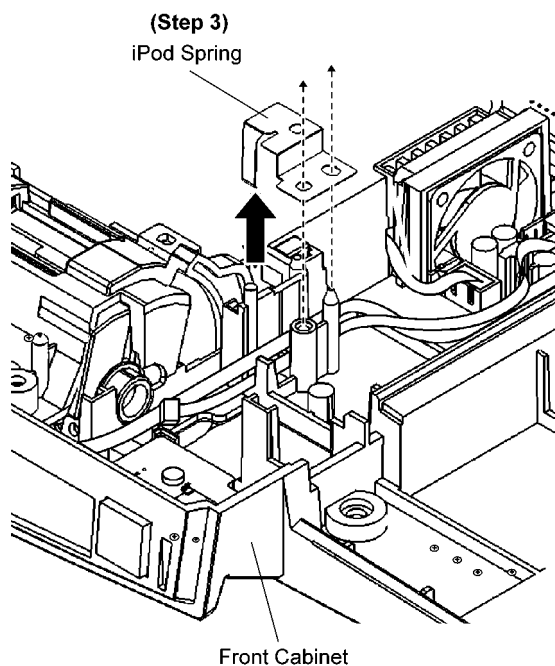


**Step 1** Press the push lever to release it.



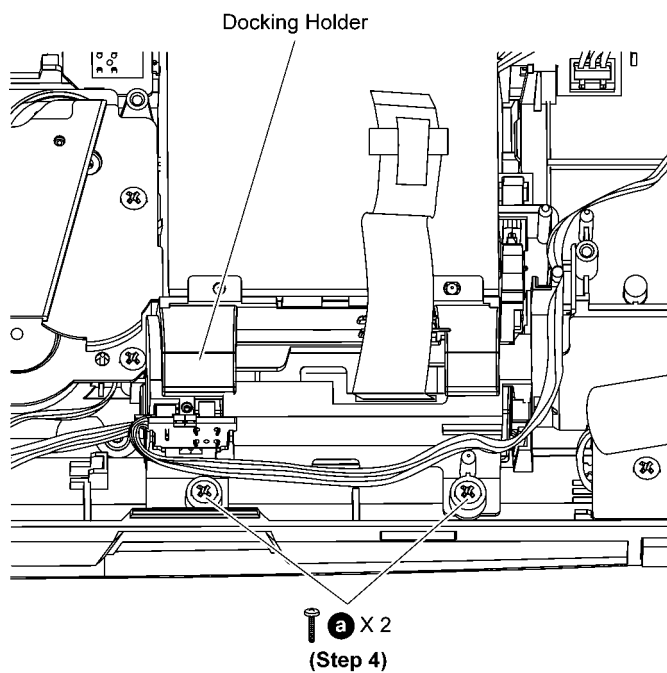
**Step 2** Release catch to remove push lever.

**Caution:** Apply gentle force during disassembling.

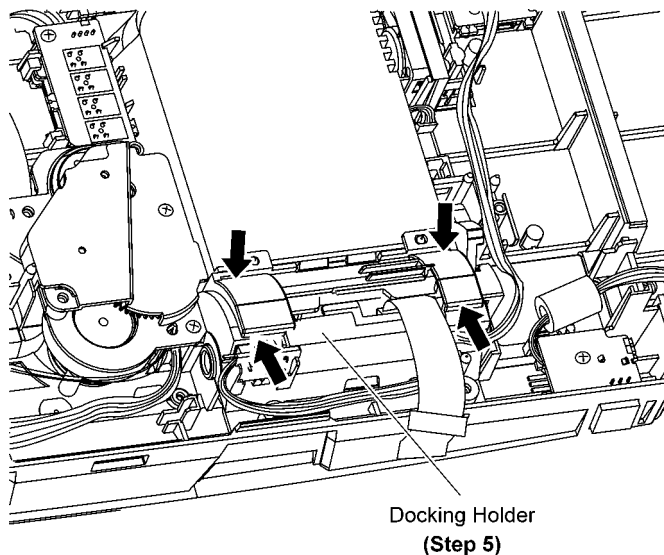


**Step 3** Remove iPod Spring.

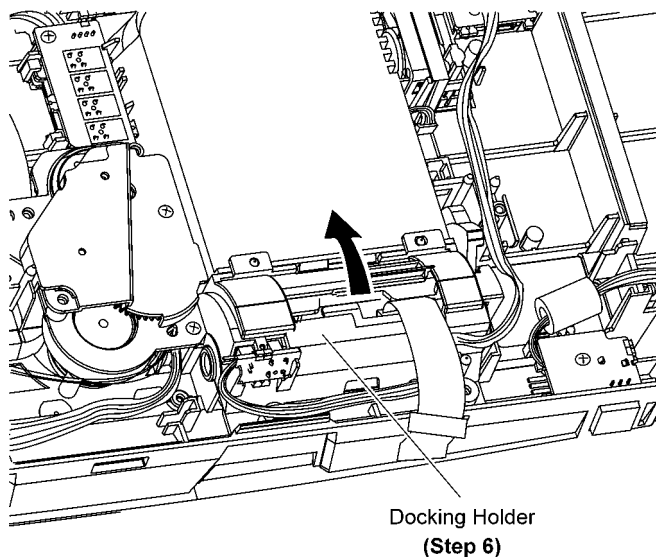
**Caution:** Keep the iPod Spring in safe place, avoid denting it. Place it back during assembling.



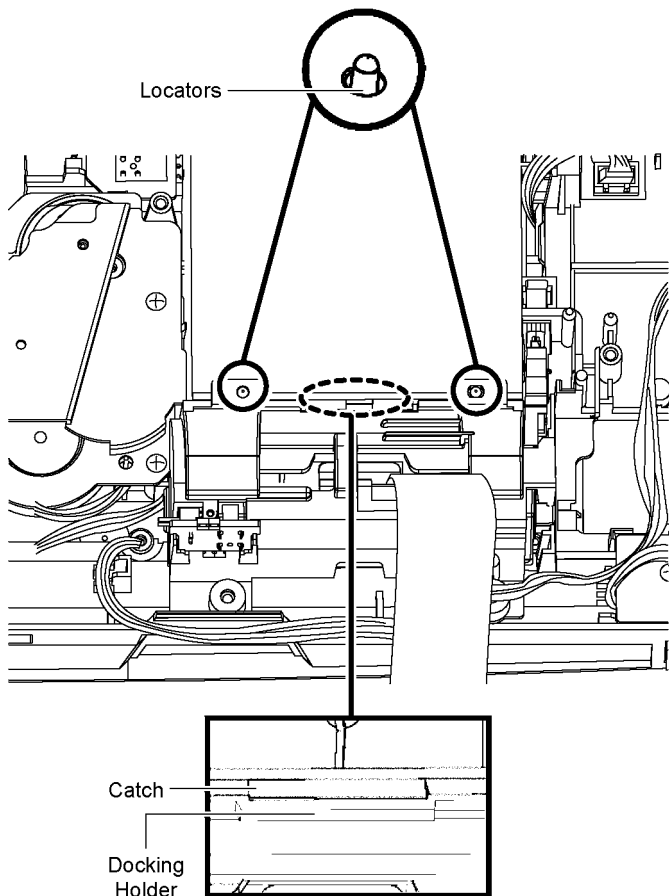
**Step 4** Remove 2 screws.



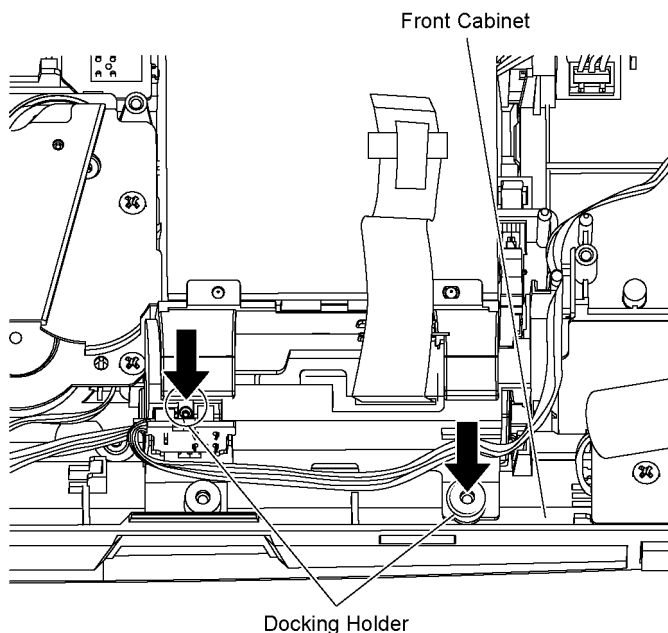
**Step 5** Press and hold the docking holder with gentle force as arrow shown.



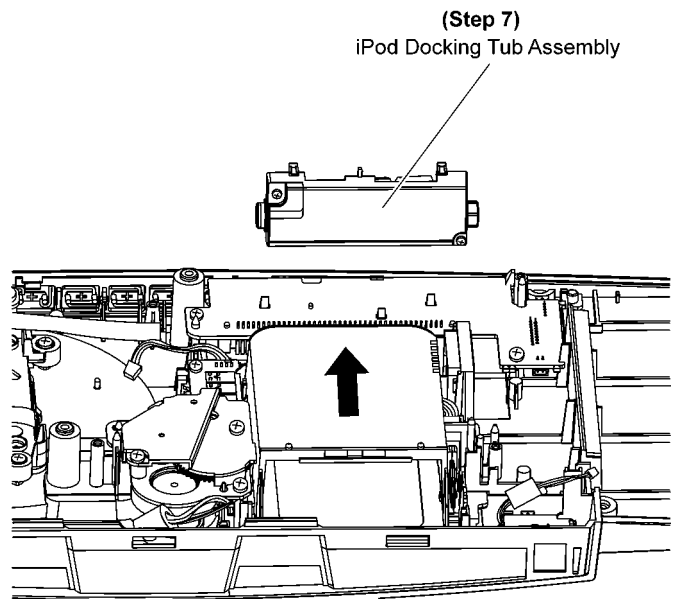
**Step 6** Remove the docking holder.



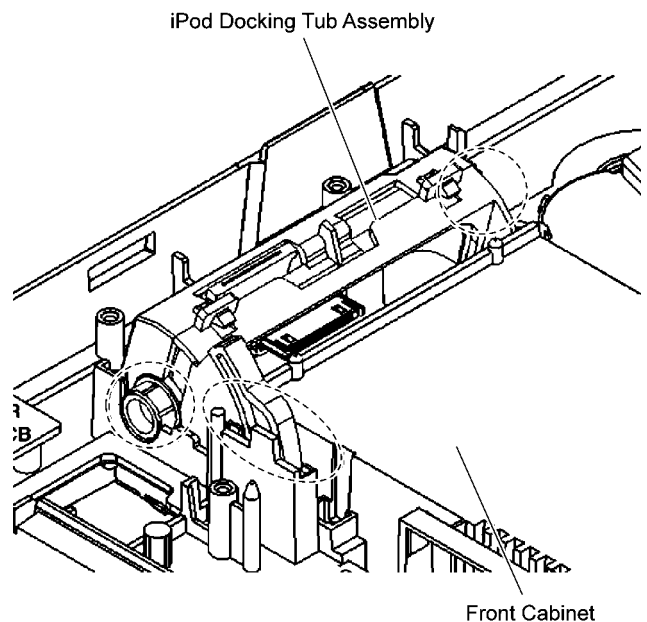
**Caution 1:** During assembling of the docking holder, place the docking holder underneath the catch and use the 2 locators as guide to ensure that the docking holder is properly located.



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



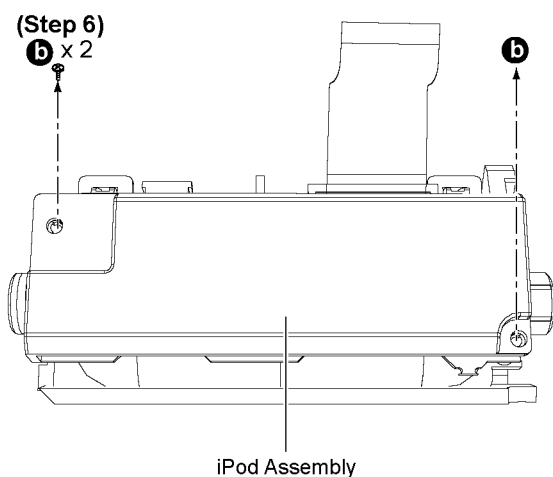
**Step 7** Remove iPod Docking Tub Assembly.



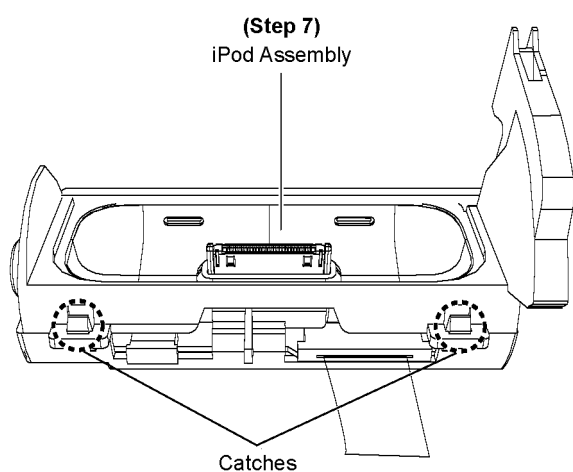
**Caution:** During assembling, ensure that iPod Docking Tube Assembly is seated onto front cabinet properly.

## 9.34. Disassembly of iPod P.C.B.

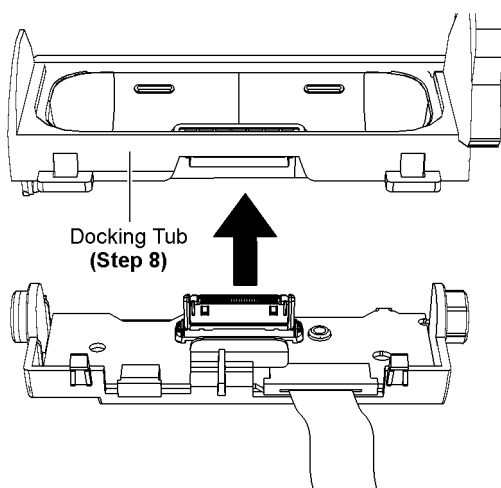
- Follow the (Step 1) to (Step 7) of Item 9.3.
- Follow the (Step 1) to (Step 8) of Item 9.4.
- Follow the (Step 1) to (Step 7) of Item 9.5.1.
- Follow the (Step 1) to (Step 3) of Item 9.8.1.
- Follow the (Step 1) to (Step 3) of Item 9.9.
- Follow the (Step 1) to (Step 9) of Item 9.10.
- Follow the (Step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



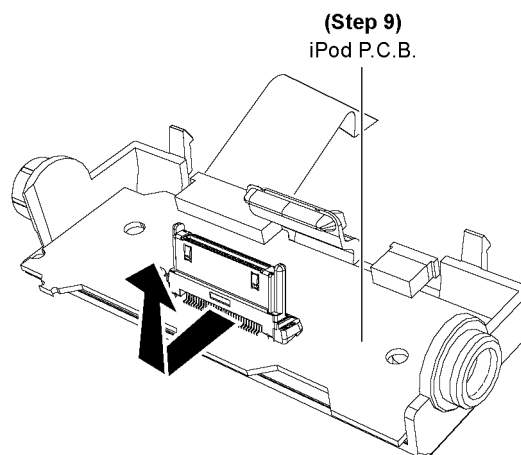
**Step 1** Remove 2 screws.



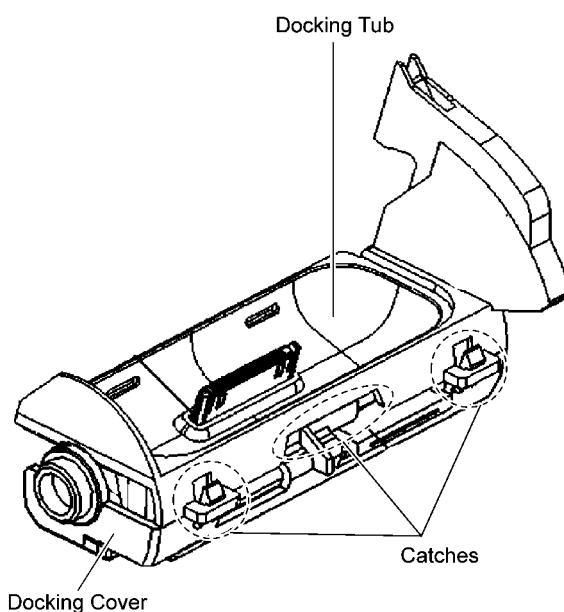
**Step 2** Release the 2 catches on iPod Assembly.



**Step 3** Remove the docking tub.



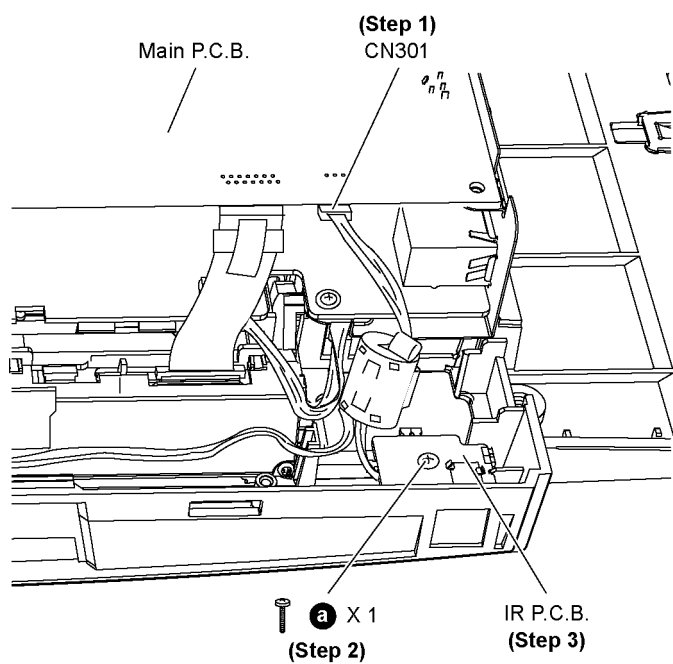
**Step 9** Remove the iPod P.C.B. as arrow shown.



**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.

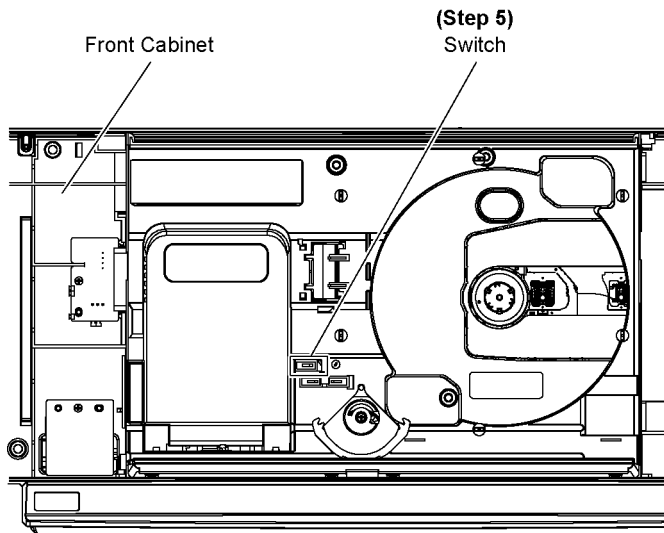
- Checking & repairing side A of Main P.C.B.

**Step 1** Remove Door Assembly.

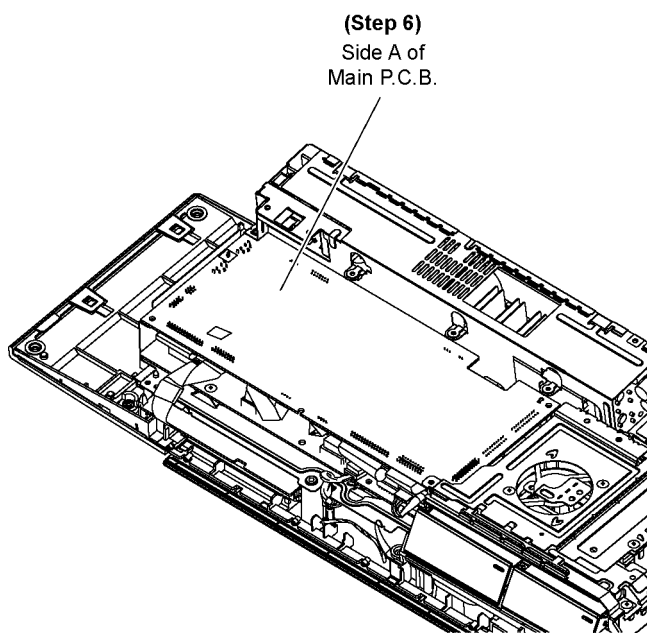
**Step 2** Remove Left & Right Ornament.

**Step 3** Remove rear cabinet.

**Step 4** Remove rear shield unit.

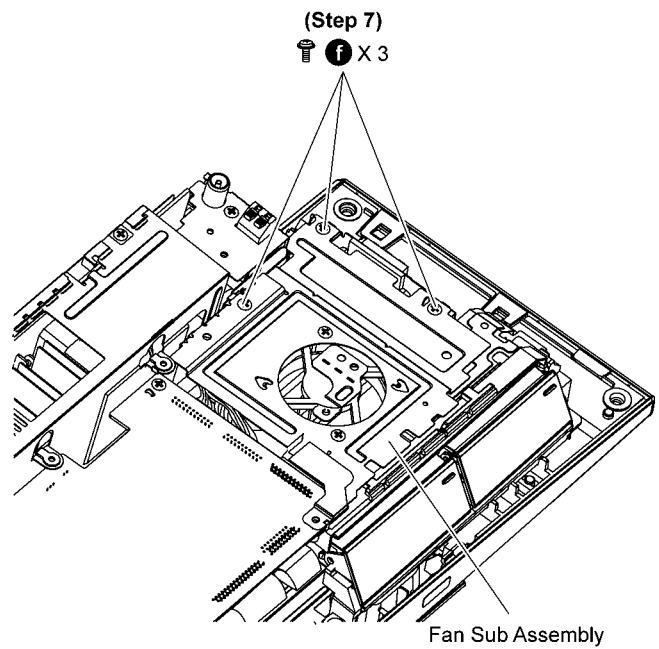


**Step 5** Use the tape to keep switch depressed.

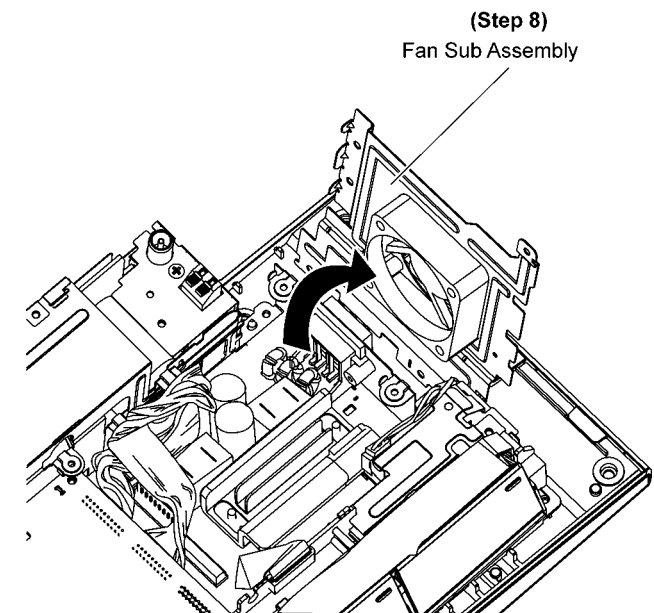


**Step 6** Check & service side A of Main P.C.B..

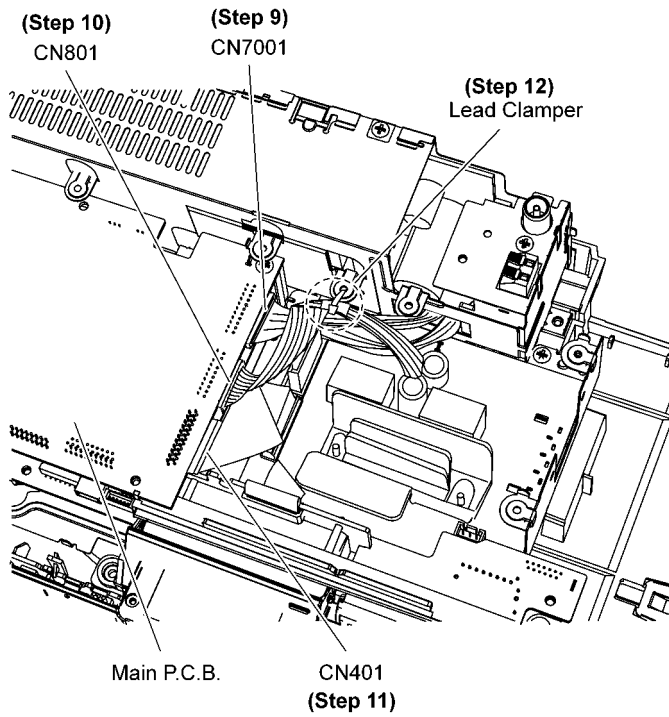
- Checking & repairing side B of Main P.C.B.



**Step 7** Remove 3 screws at Fan Sub Assembly.



**Step 8** Lift up Fan Sub Assembly.

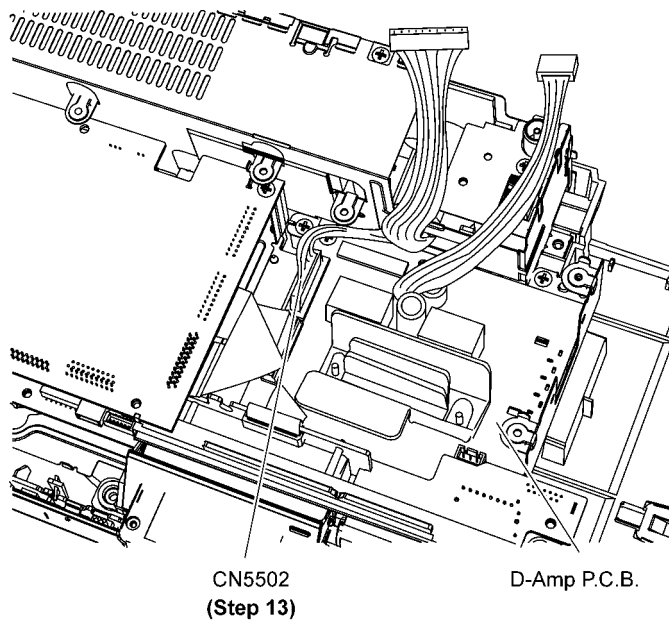


**Step 9** Detach 11P wire at the connector (CN7001) on Main P.C.B..

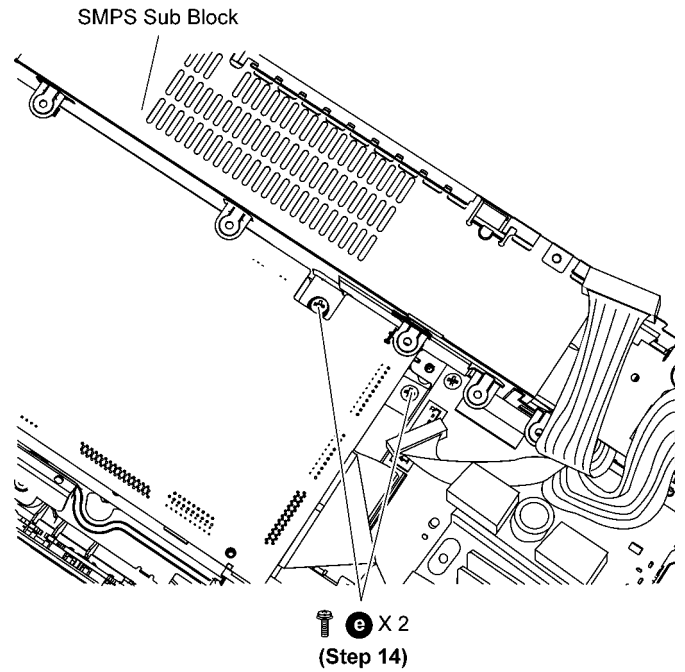
**Step 10** Detach 10P wire at the connector (CN801) on Main P.C.B..

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

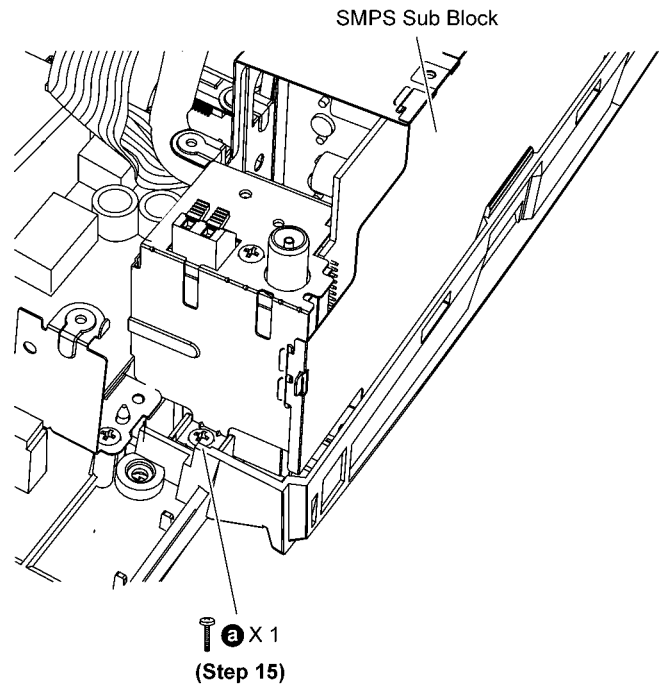
**Step 12** Cut the Lead Clamper.



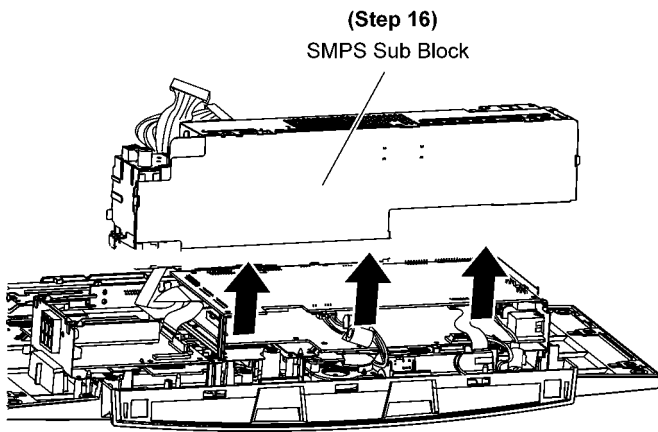
**Step 13** Detach 8P wire at the connector (CN5502) on D-Amp P.C.B..



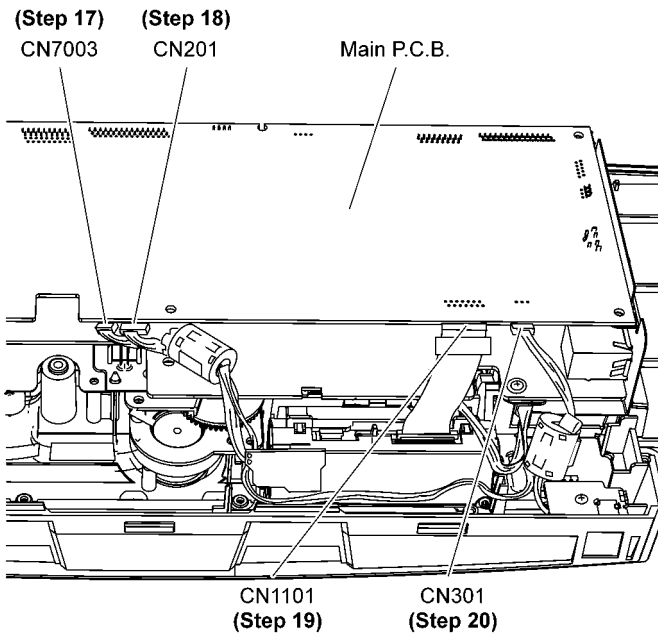
**Step 14** Remove 2 screws at SMPS Sub Block.



**Step 15** Remove 1 screw at SMPS Sub Block.



**Step 16** Remove SMPS Sub Block.

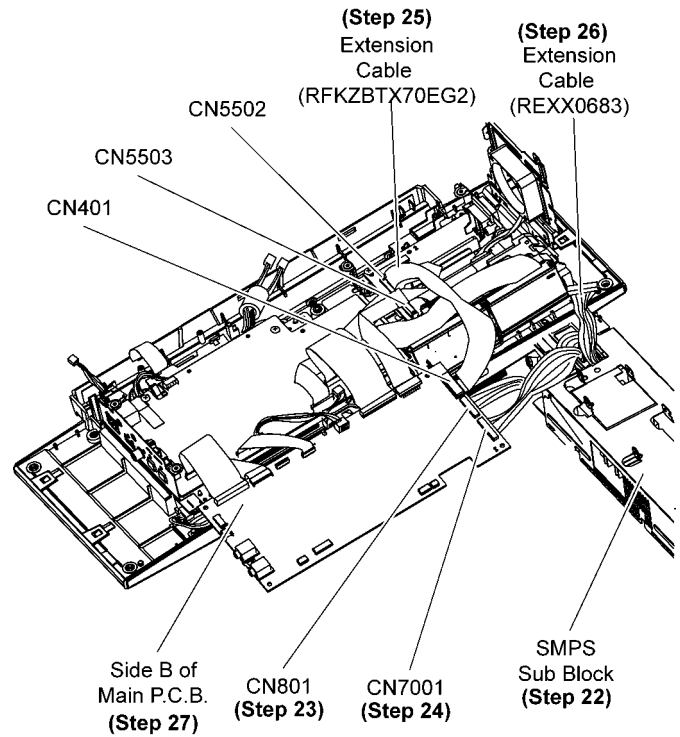


**Step 17** Detach 2P wire at the connector (CN7003) on Main P.C.B..

**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..

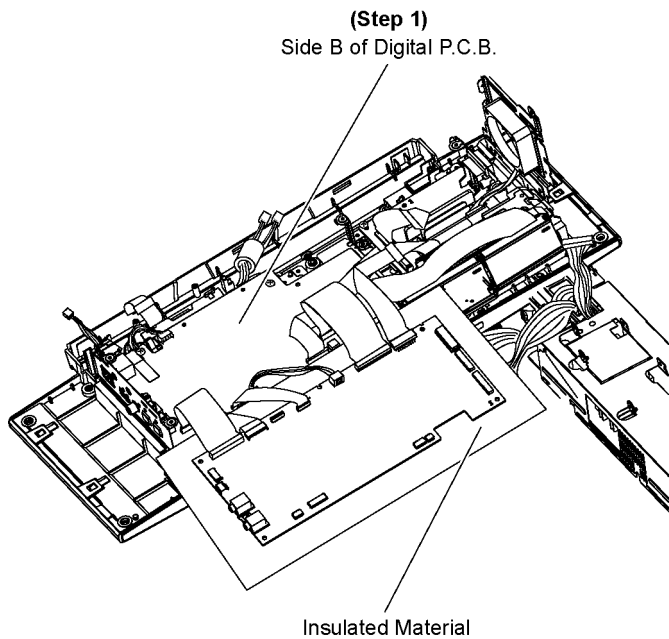
**Step 25** Attach original cable with extension cable (RFKZBTX70EG2)(22P FFC from CN401 to CN5503).

**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.

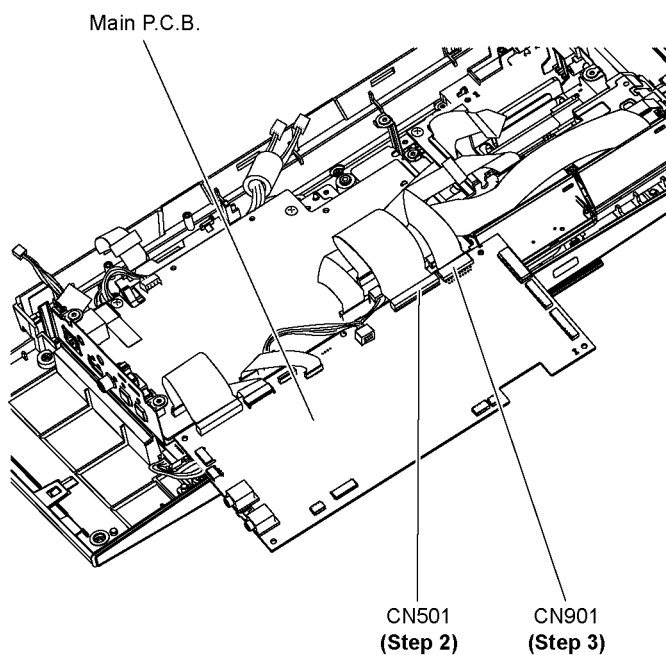


**Step 1** Proceed to check and repair side B of Digital P.C.B..  
**Caution:** Insulated material is required to insulate Main P.C.B. from other parts.

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

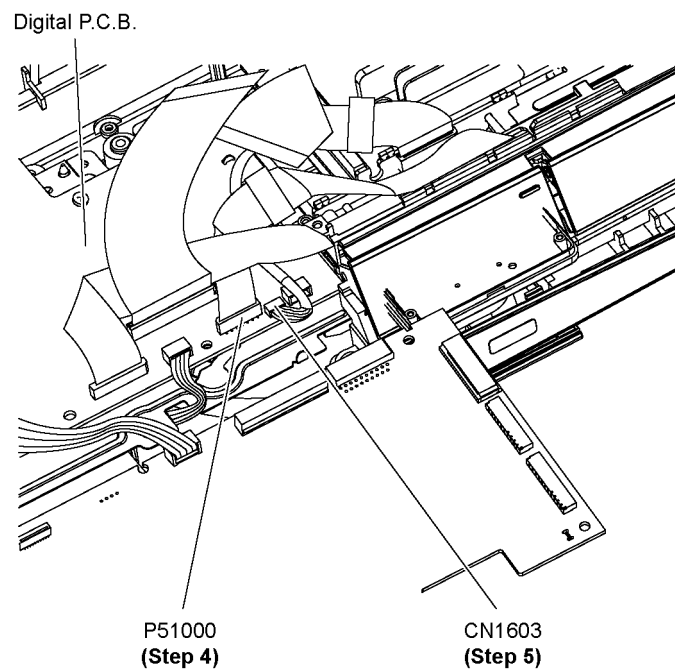
- Follow the (Step 1) to (Step 26) of Item 10.1.

**Step 1** Remove fan Sub Assembly.



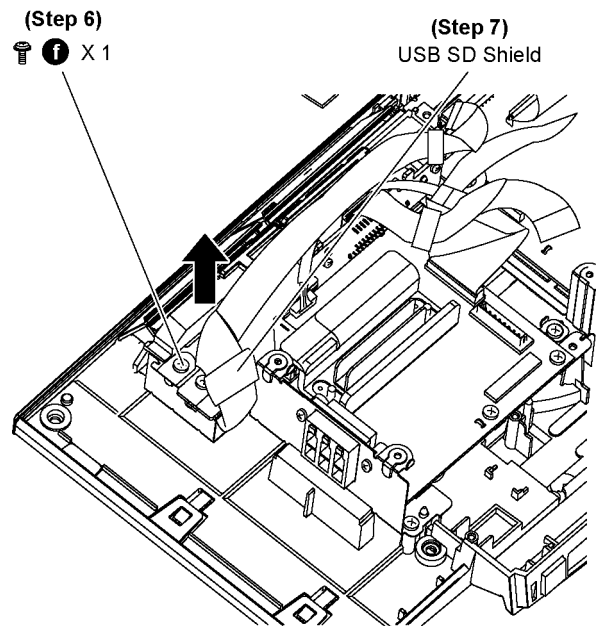
**Step 2** Detach 30P FFC at the connector (CN501) on Main P.C.B..

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



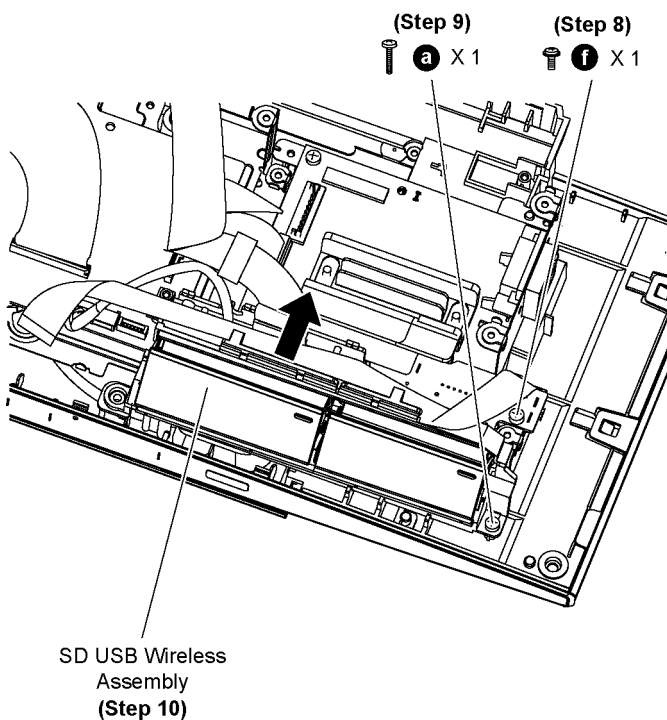
**Step 4** Detach 13P FFC at the connector (P51000) on Digital P.C.B..

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



**Step 6** Remove 1 screw.

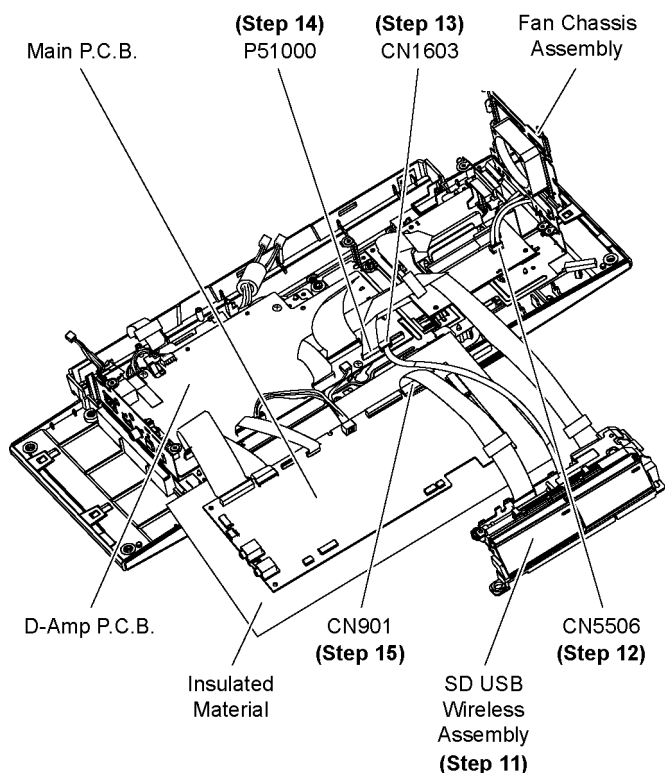
**Step 7** Remove USB SD shield.



**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..

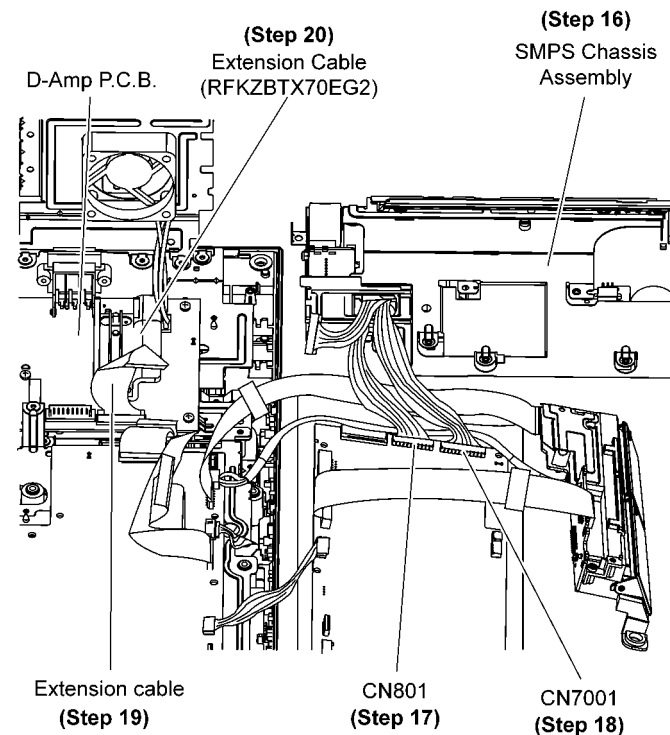
**Step 13** Connect 5P wire to connector (CN1603) on Digital P.C.B..

**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.



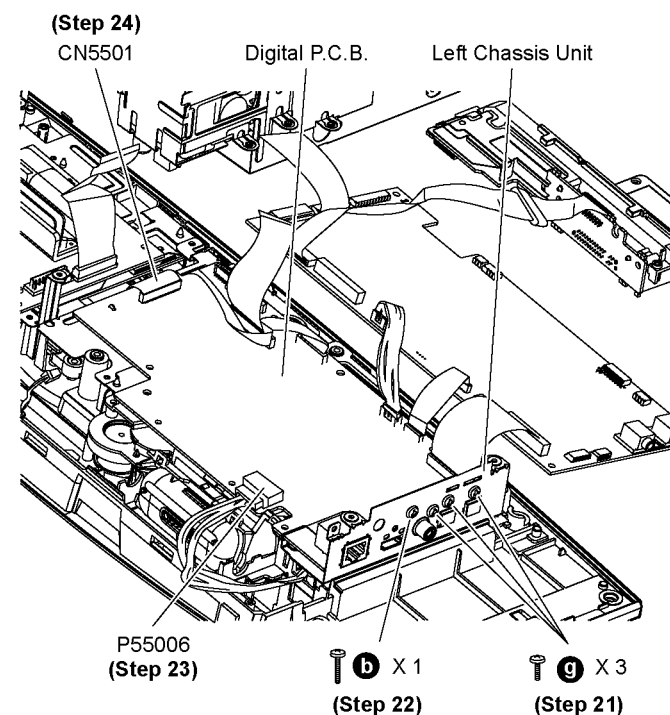
**Step 16** Position SMPS Sub Block according to diagram shown.

**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).

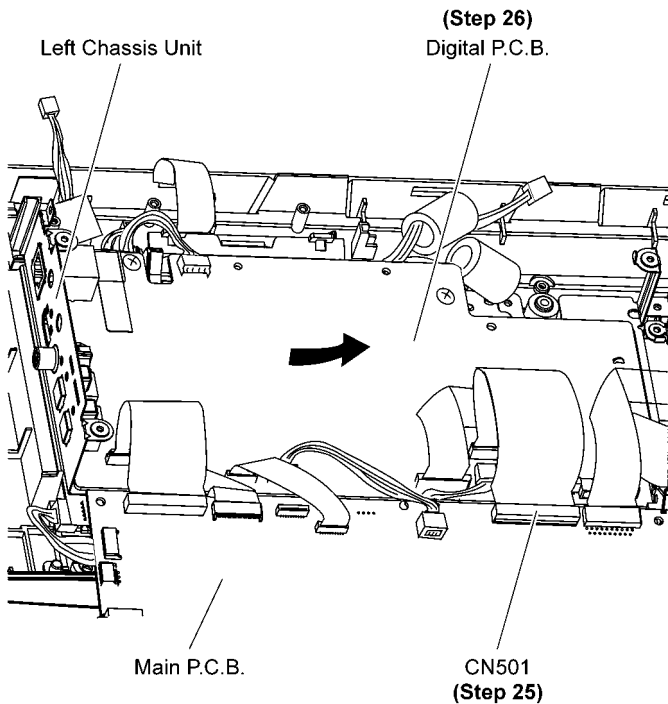


**Step 21** Remove 3 screws.

**Step 22** Remove 1 screw.

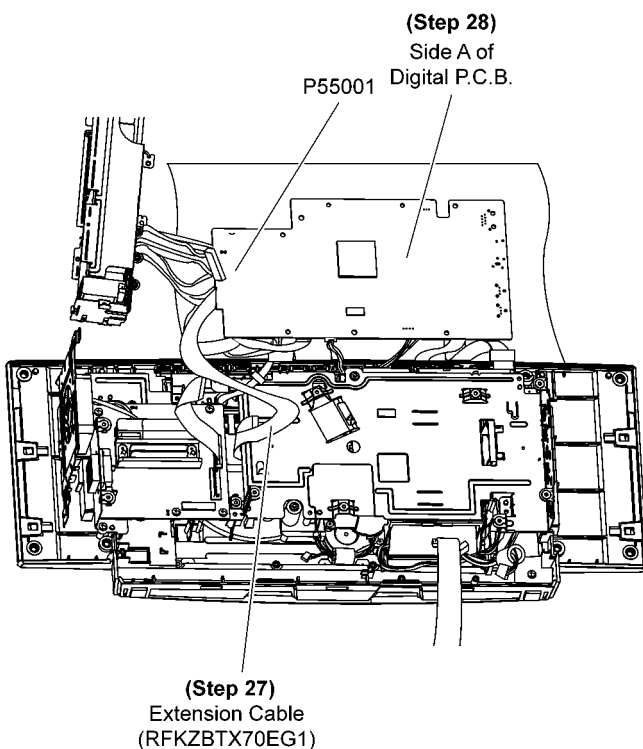
**Step 23** Detach 4P wire at the connector (P55006) on Digital P.C.B..

**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.



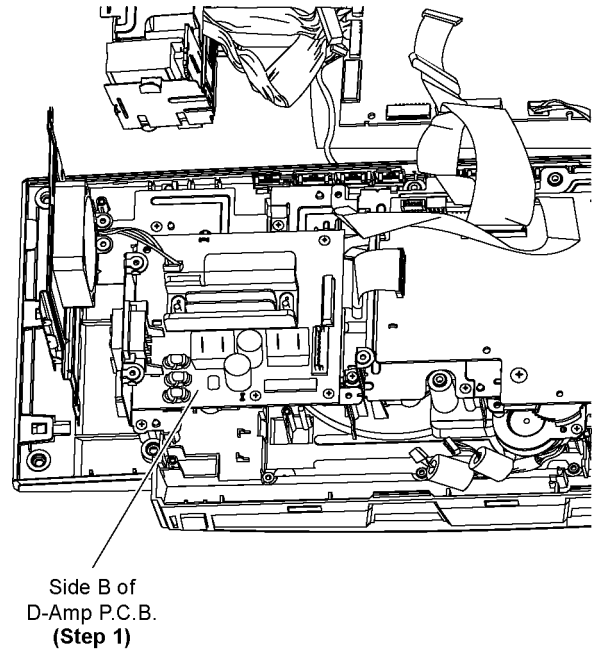
**Step 27** Attach original cable with extension cable (RFKZBTX70EG1) (45P cable from P55901 to P55001).

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

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

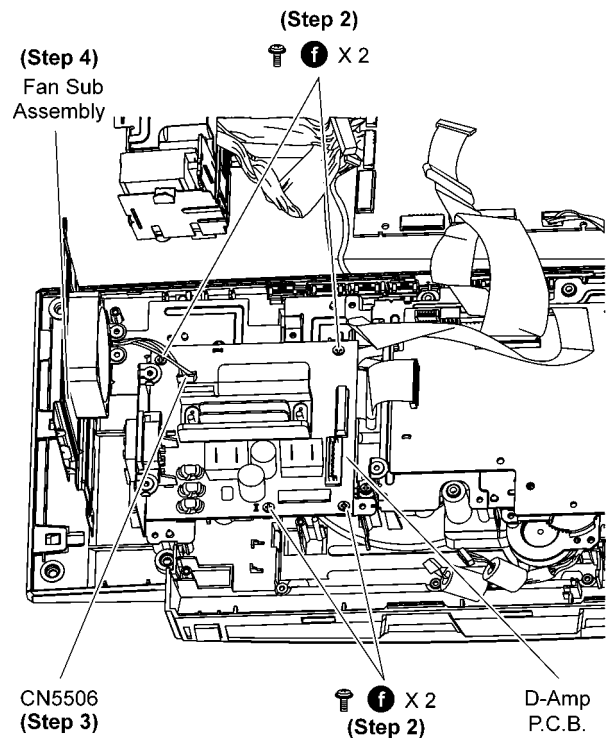
### • Checking & repairing side B of D-Amp P.C.B.

- 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..

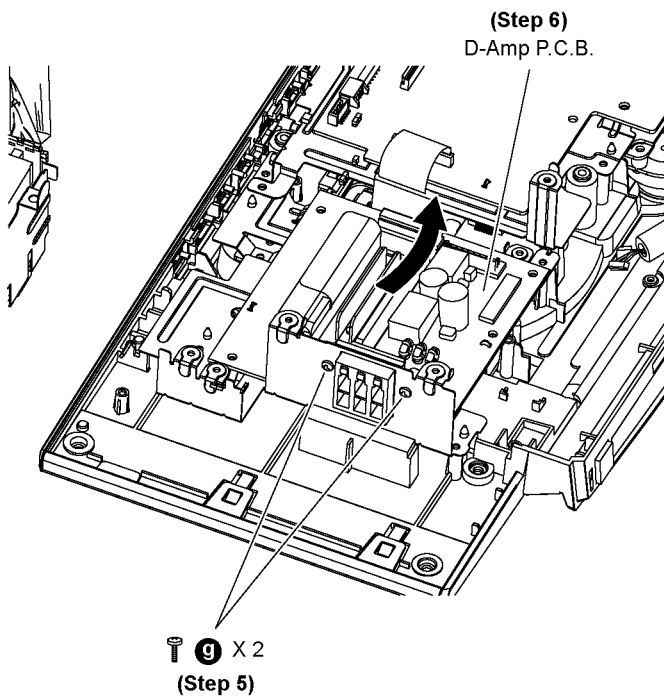
### • Checking & repairing side A of D-Amp P.C.B.



**Step 2** Remove 4 screws.

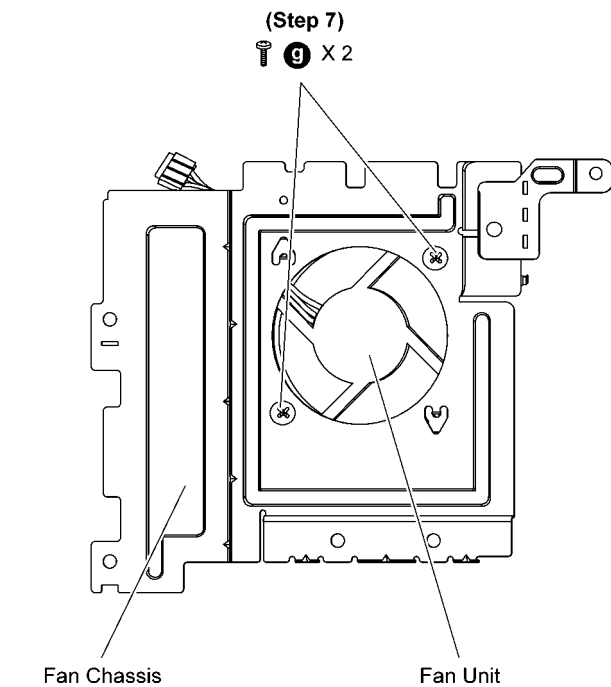
**Step 3** Detach 3P wire at the connector (CN5506) on D-Amp P.C.B..

**Step 4** Remove fan sub assembly.

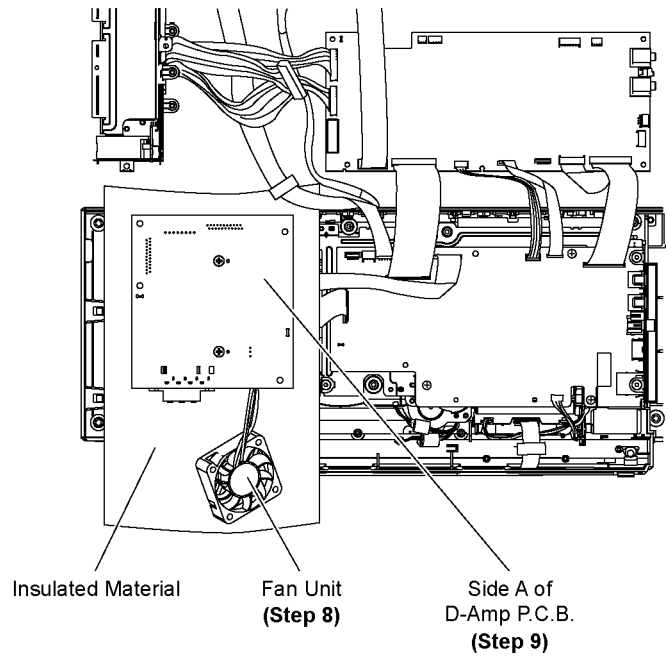


**Step 5** Remove 2 screws.

**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..

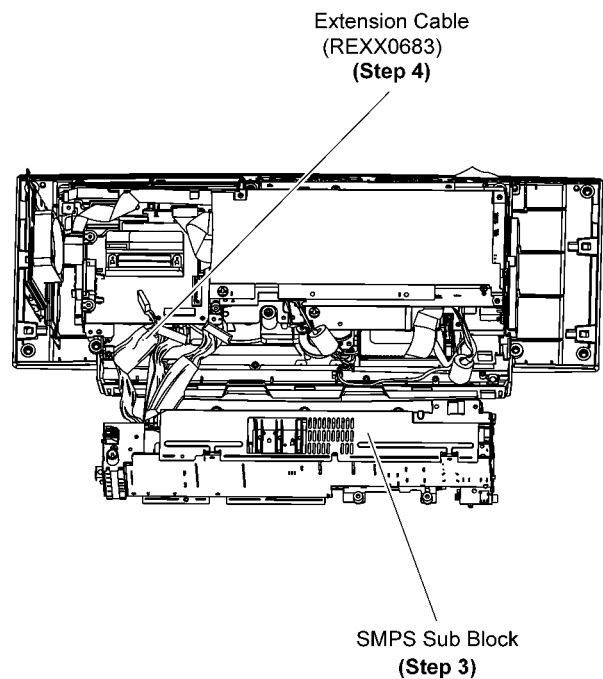
**Step 9** Proceed to check and repair side A of D-Amp P.C.B..

**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.

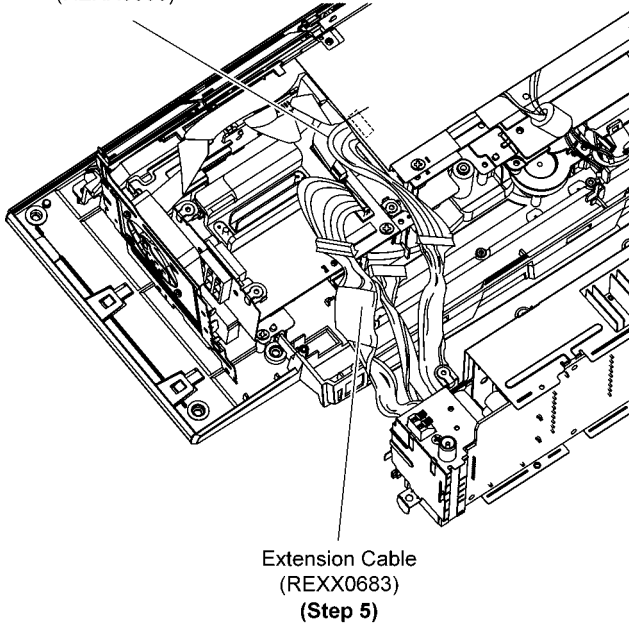
**Step 2** Remove SMPS sub block.



**Step 3** Position SMPS sub block according to diagram shown.

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

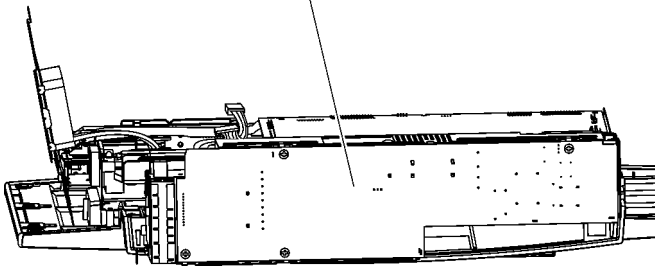
(Step 6)  
Extension Cable  
(REXX0680)



**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.



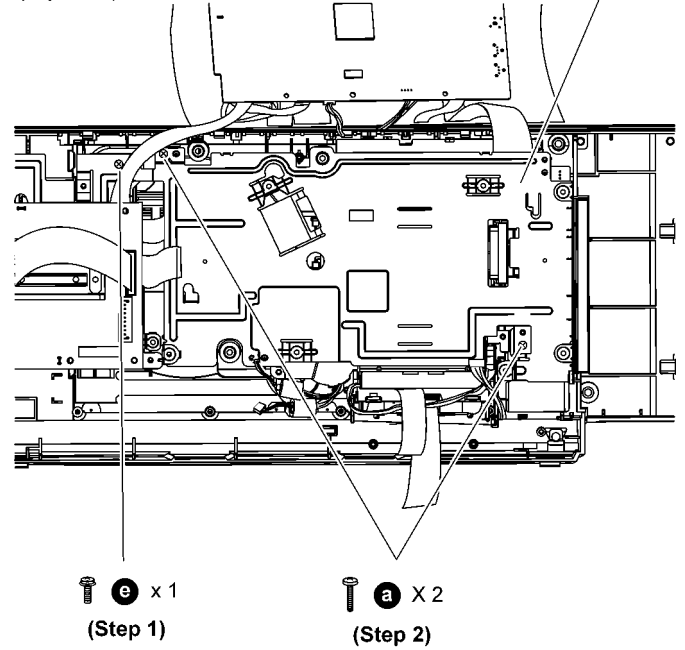
**Step 7** Proceed to check and service SMPS P.C.B..

## 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

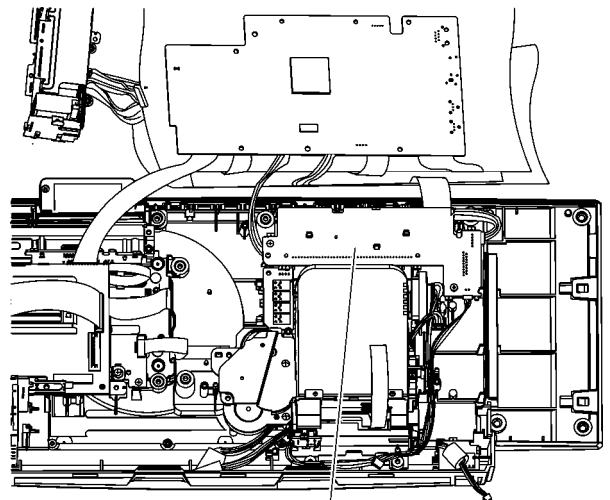
(Top View)



**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..

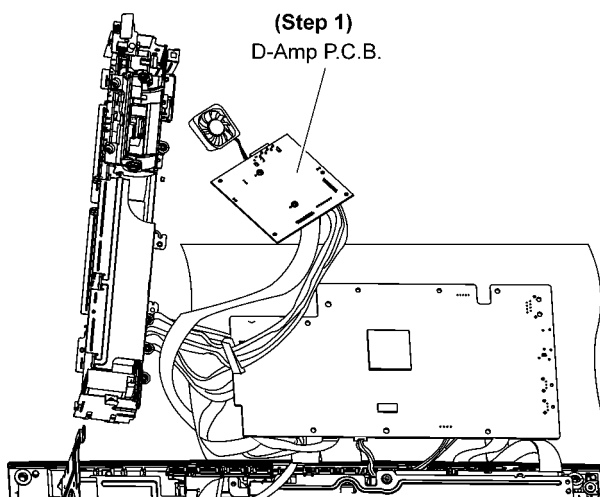
## 10.6. Checking & repairing of BD Mechanism

- 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.

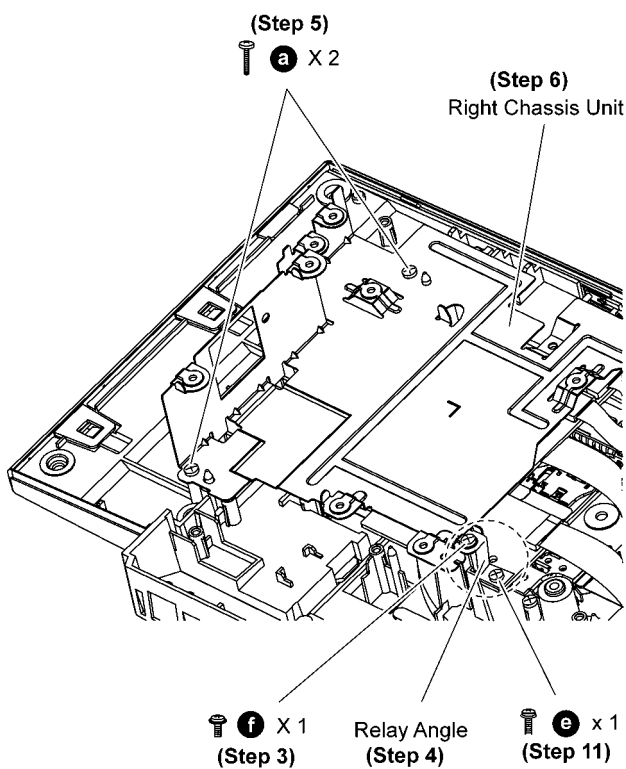
**Caution 1:** BD Mechanism must be seated properly on the middle chassis before mounting to front cabinet.

**Caution 2:** Avoid damaging FFC cables, especially those that 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 |  |

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## 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 |     |     |     |     |     |     |     |     |     |     |     |      |

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## 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 |

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## 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 |     |     |     |     |     |     |     |     |     |     |     |     |

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## 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 |      |      |      |      |      |    |      |     |     |     |     |     |

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## 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 |    |     |     |

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### 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 |       |        |      |     |  |

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### 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     |     |       |       |       |       |       |       |       |      |       |       |       |       |       |       |       |

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### 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 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

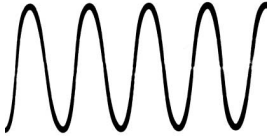
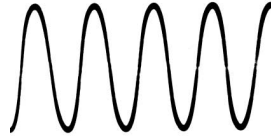
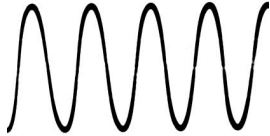
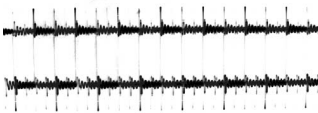
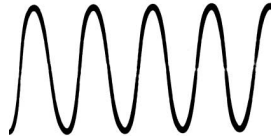
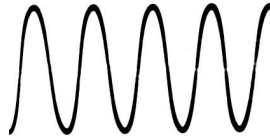
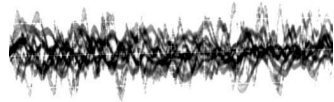
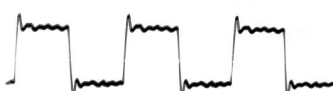
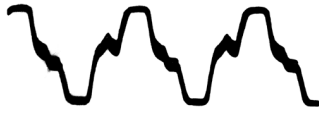
SA-BTX68EF, SA-BTX70EB/EG POWER BUTTON P.C.B.

## 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.**

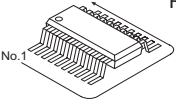
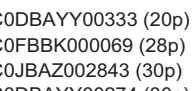
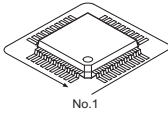
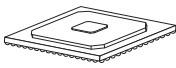
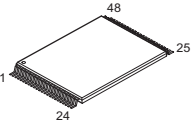
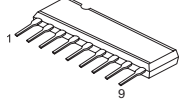
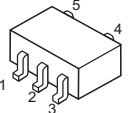
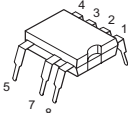
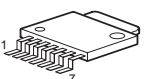
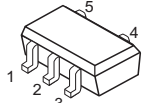
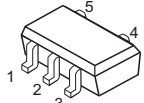
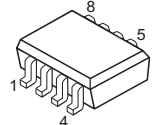
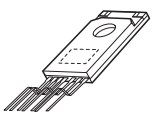
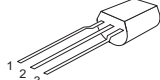
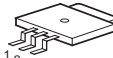
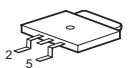
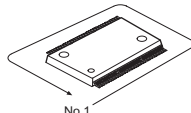
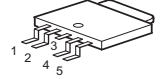
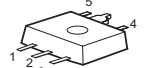
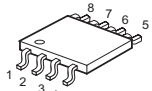
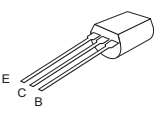
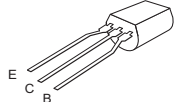
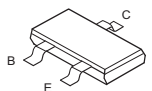
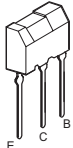
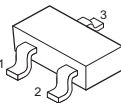
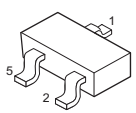
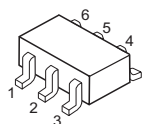
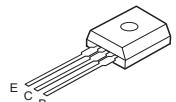
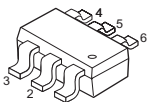
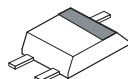
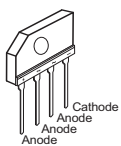
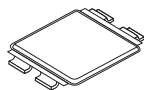
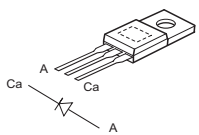
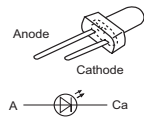
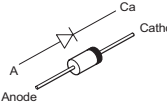
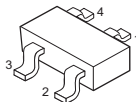
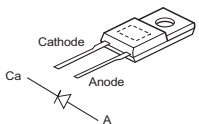
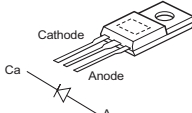
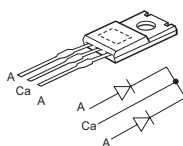
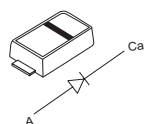
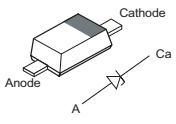
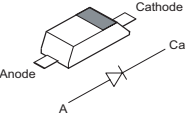
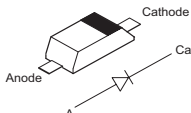
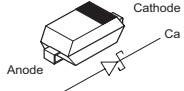
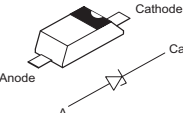
## 11.17. Waveform Table (1/2)

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

## 11.18. Waveform Table (2/2)

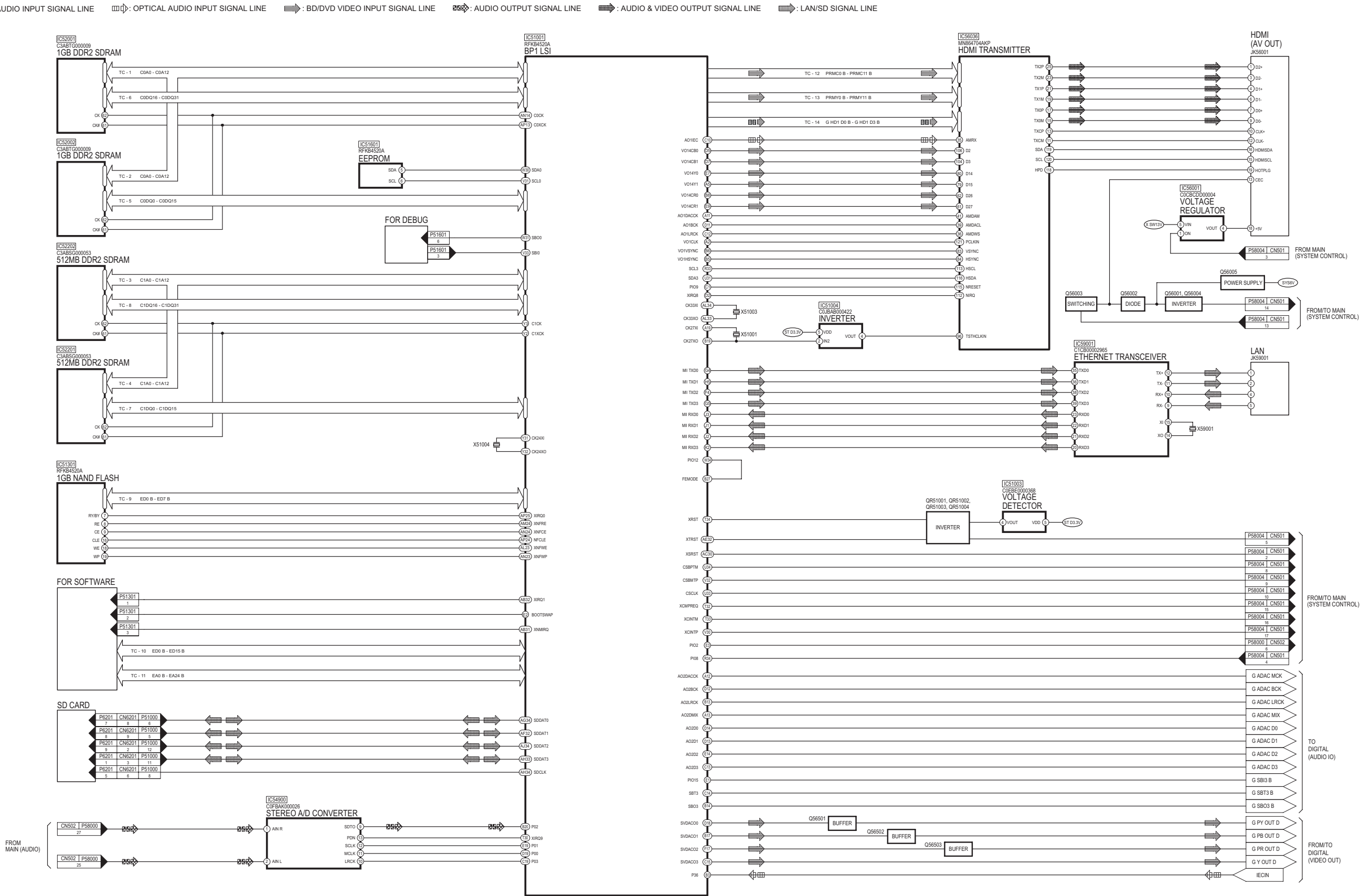
|                                                                                                                                                |                                                                                                                                                     |    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

# 12 Illustration of ICs, Transistor and Diode

|                                                                                                                                                                                                                                                                 |                                                                                                              |                                                                                                                                                                                                                                |                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                  |                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
|  <p>RFKWMBTX70EB (8p)(EB)<br/>RFKWMBTX70EG (8p)(EG)<br/>RFKWMBTX68EF (8p)(EF)</p> <p>C1AB00002751 (16p)<br/>C0ABBB000189 (8p)<br/>C0ABBB000125 (8p)<br/>C0FBAK000026 (16p)</p> |                                                                                                              |  <p>C0DBAYY00333 (20p)<br/>C0FBBK000069 (28p)<br/>C0JBAZ002843 (30p)<br/>C0DBAYY00274 (30p)<br/>C1AB00003097 (32p)<br/>C3ABMG000238 (50p)</p> |                                                                                                                                          |  <p>RFKWMBTX70EB (100p) (EB)<br/>RFKWMBTX70EG (100p) (EG)<br/>RFKWMBTX68EF (100p) (EF)</p> <p>C1AB00002951 (80p)<br/>MN864704AKP (128p)<br/>C2HBZY000024 (144p)<br/>MFI341S2161 (20p)<br/>C0HBB0000057 (44p)<br/>C0ZBZ0001673 (48p)<br/>C1CB00002965 (48p)</p> |                                                                                                              |
| RFKB4520A                                                                                                                                                                                                                                                       | RFKB4520A                                                                                                    | C0GAE0000007                                                                                                                                                                                                                   | C0JBAB000422<br>C0JBAB000661                                                                                                             | MIP2F20MSSCF                                                                                                                                                                                                                                                                                                                                     | C0DBFZG00001                                                                                                 |
|                                                                                                                                                                                |                             |                                                                                                                                               |                                                         |                                                                                                                                                                                                                                                               |                           |
|                                                                                                                                                                                | C0CBCDD00004<br>C0ABAA000114<br>C0ZBZ0001675<br>C0DBZHE00026<br>C0DBZHE00024<br>C0EBE0000368<br>C0EBE0000242 | C0JBAR000434<br>B1MBEDA00026                                                                                                                                                                                                   | C5HACYY00003 (7p)                                                                                                                        | C0DABFC00002 (3p)<br>C0DAEMZ00001 (3p)                                                                                                                                                                                                                                                                                                           | C0CBABC00117<br>C0CBADD00010                                                                                 |
|                                                                                                                                                                                |                                                                                                              |                                                                                                                                               |                                                         |                                                                                                                                                                                                                                                               |                           |
| B1BBCF000006                                                                                                                                                                                                                                                    | AN41214A-VF                                                                                                  | C0DBEYY00016<br>C0DBZH000047<br>C0CBCYG00004<br>C0DBEYG00002                                                                                                                                                                   | C0CBCBE00005                                                                                                                             | C0DBAYH00007<br>C0DBZYY00018<br>C0DBGFD00024<br>B1MBEDA00026                                                                                                                                                                                                                                                                                     | C3ABSG000053<br>C3ABTG000009                                                                                 |
|                                                                                                                                                                                |                            |                                                                                                                                              |                                                         |                                                                                                                                                                                                                                                              |                          |
| 2SC3940ARA                                                                                                                                                                                                                                                      | 2SB0621AHA                                                                                                   | B1GBCFNN0041<br>B1GDCFNN0032<br>B1GDCFJJ0008<br>B1GBCFJJ0007<br>B1ABCF000176                                                                                                                                                   | B1ADCE000012<br>B1ADCF000172<br>B1GBCFGG0030<br>B1GDCFJJ0047<br>B1GBCFJJ0051<br>B1GBCFLL0037<br>B1GBCFGN0018<br>2SA153200L<br>UNR521100L | B1BABK000001                                                                                                                                                                                                                                                                                                                                     | B1GBCFJA0017<br>B1GBCFJJ0001                                                                                 |
|                                                                                                                                                                              |                           |                                                                                                                                             |                                                       |                                                                                                                                                                                                                                                             |                         |
| B1ABCF000020<br>B1BAAJ000003                                                                                                                                                                                                                                    | B1GFGCAA0001                                                                                                 | B1BACD000018                                                                                                                                                                                                                   | B1HBDCA00001<br>B1CHPD000003                                                                                                             | UNR221400L<br>UNR51ALJ0L<br>UNR52ALJ0L<br>UNR91A5J0L<br>2SD1819K0L                                                                                                                                                                                                                                                                               | B0FBAR000041                                                                                                 |
|                                                                                                                                                                              |                           |                                                                                                                                             |                                                       |                                                                                                                                                                                                                                                             |                         |
| B1CBRK000001                                                                                                                                                                                                                                                    | B0AZAZ000052                                                                                                 | B3AAA0000803                                                                                                                                                                                                                   | B0EAMM000057<br>B0HAMP000094<br>B0JAME000029                                                                                             | B0EDKT000009                                                                                                                                                                                                                                                                                                                                     | B0HFRJ000012                                                                                                 |
|                                                                                                                                                                              |                           |                                                                                                                                             |                                                       |                                                                                                                                                                                                                                                             |                         |
| B0HBSM000054                                                                                                                                                                                                                                                    | B0HBSM000043                                                                                                 | B0JCND000019                                                                                                                                                                                                                   | MAZ8024G0L                                                                                                                               | MAZ8200GML<br>MAZ8180GML<br>MAZ8130GHL<br>MAZ8120GML<br>MAZ8110GML<br>MAZ8100GHL<br>MAZ8068GML<br>MAZ8300GML                                                                                                                                                                                                                                     | MAZ8075GML<br>MAZ8051GML<br>MAZ8033GLL<br>MAZ8270GLL<br>MA2J1110GL<br>MA2SD320GL<br>MAZ8062GML<br>MAZ8220GML |
|                                                                                                                                                                              |                           |                                                                                                                                             |                                                       |                                                                                                                                                                                                                                                                                                                                                  |                                                                                                              |
| MA2YF8000L                                                                                                                                                                                                                                                      | B0ACCK000005<br>B0JCND000060                                                                                 | B0JCPG000005<br>B0HCMM000019<br>B0JCND000021<br>B0ECKP000002                                                                                                                                                                   | B0JCMD000010<br>B0BC6R100010                                                                                                             |                                                                                                                                                                                                                                                                                                                                                  |                                                                                                              |
|                                                                                                                                                                              |                           |                                                                                                                                             |                                                       |                                                                                                                                                                                                                                                                                                                                                  |                                                                                                              |

# 13 Block Diagram

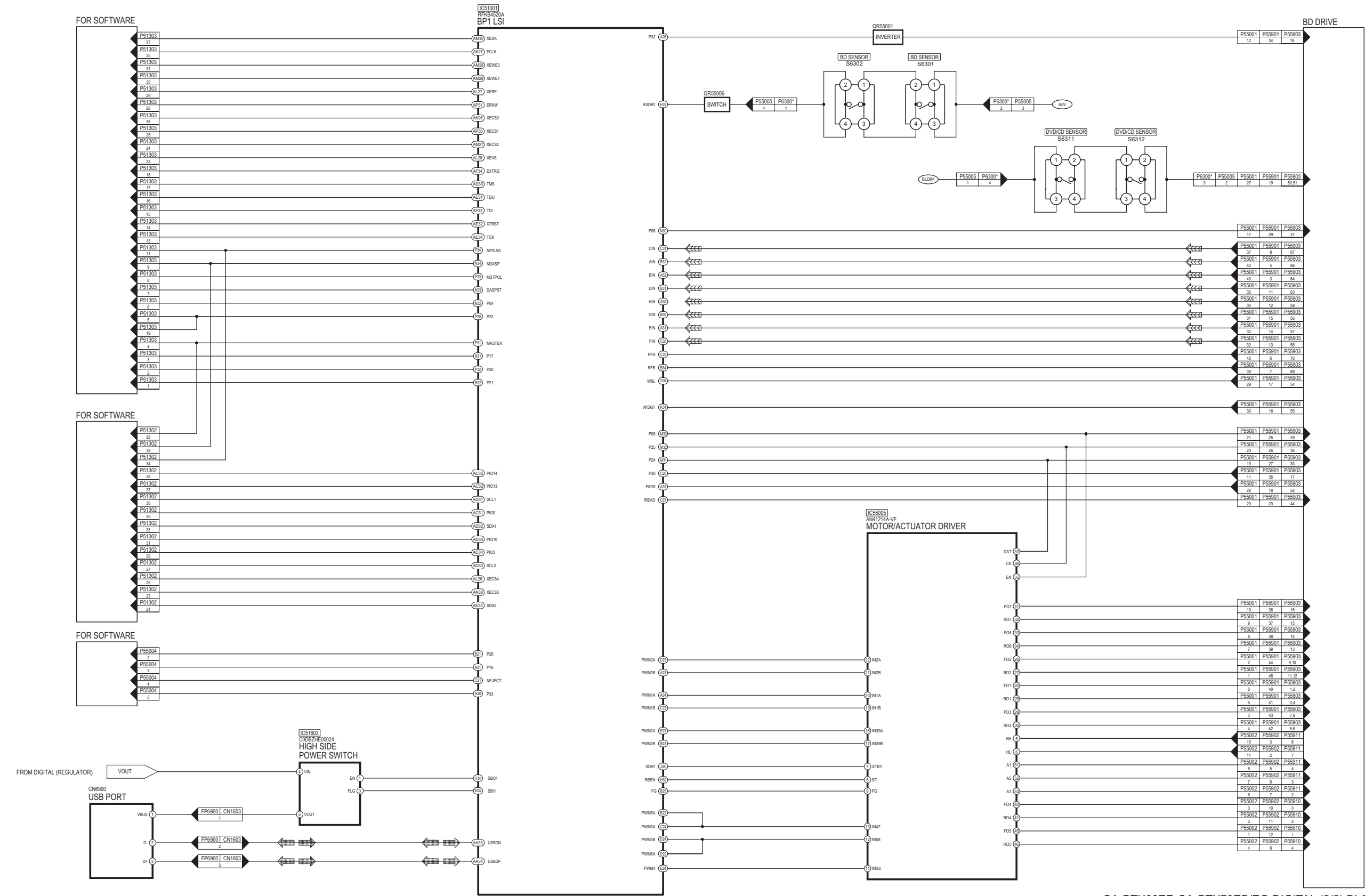
## 13.1. Digital (1/2)



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       |

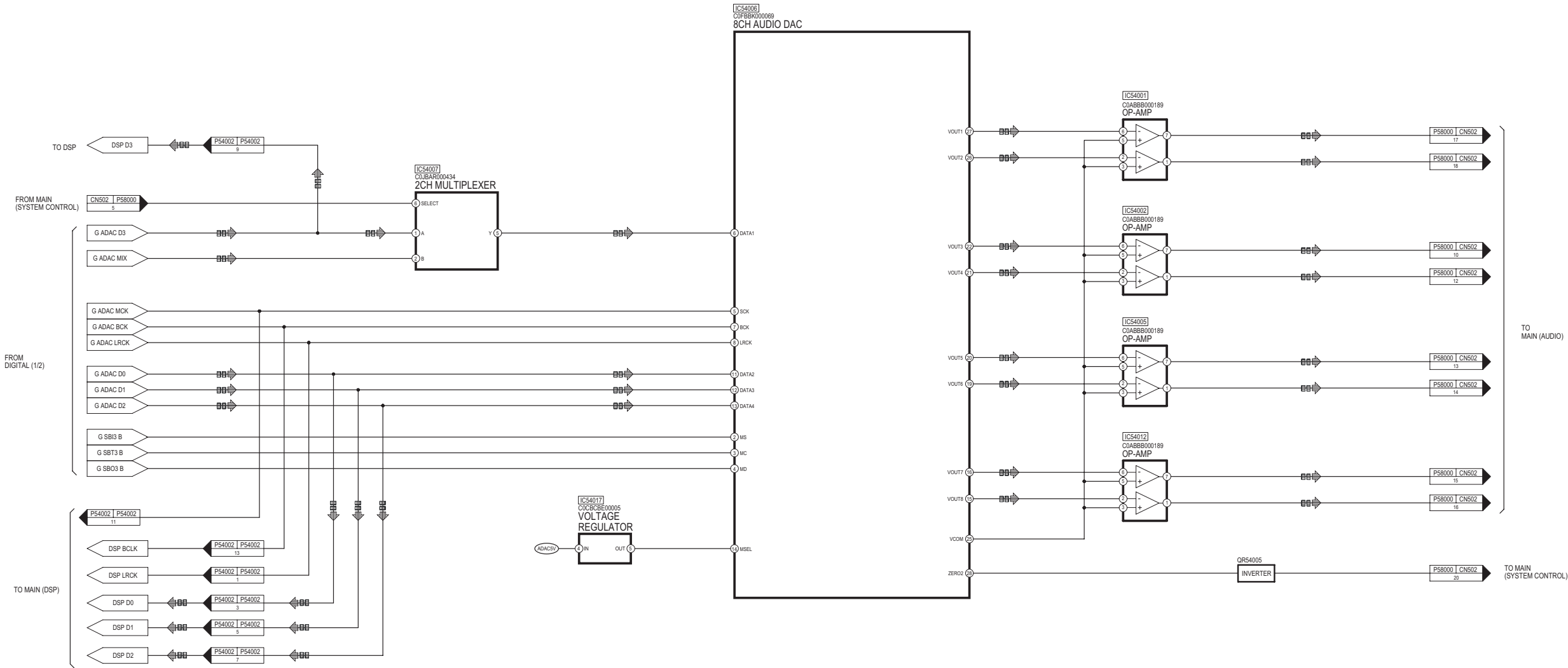
| TC | IC51001 / BP1 LSI |        | SIGNAL NAME | IC56036 / HDMI TRANSMITTER |           |
|----|-------------------|--------|-------------|----------------------------|-----------|
|    | Port Name         | Pin No |             | Pin No                     | Port Name |
| 12 | VO1C0             | B4     | 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    |

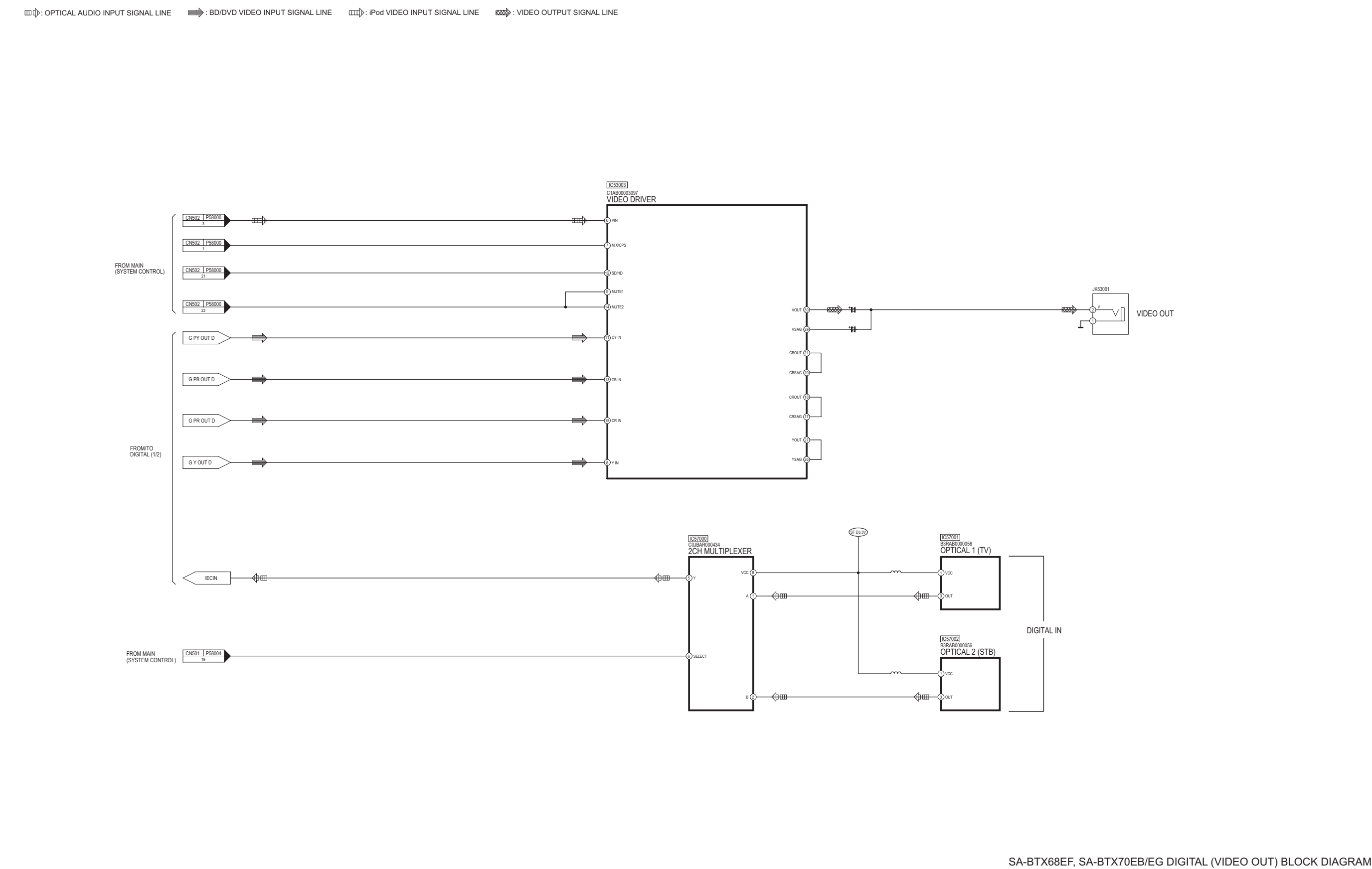
# 13.5. Digital (Audio IO)

BD/DVD AUDIO INPUT SIGNAL LINE

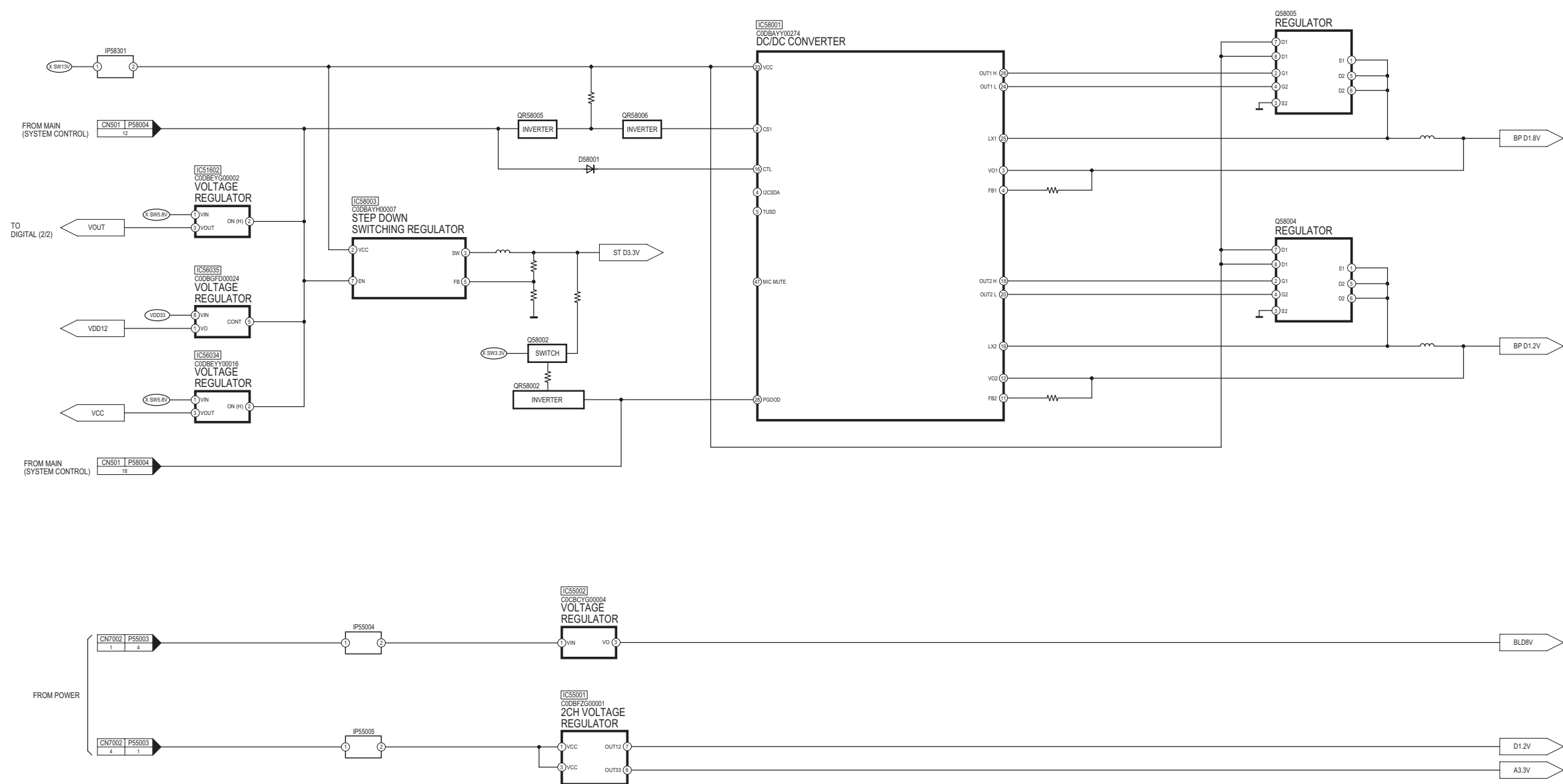


SA-BTX68EF, SA-BTX70EB/EG DIGITAL (AUDIO IO) BLOCK DIAGRAM

13.6. Digital (Video Out)



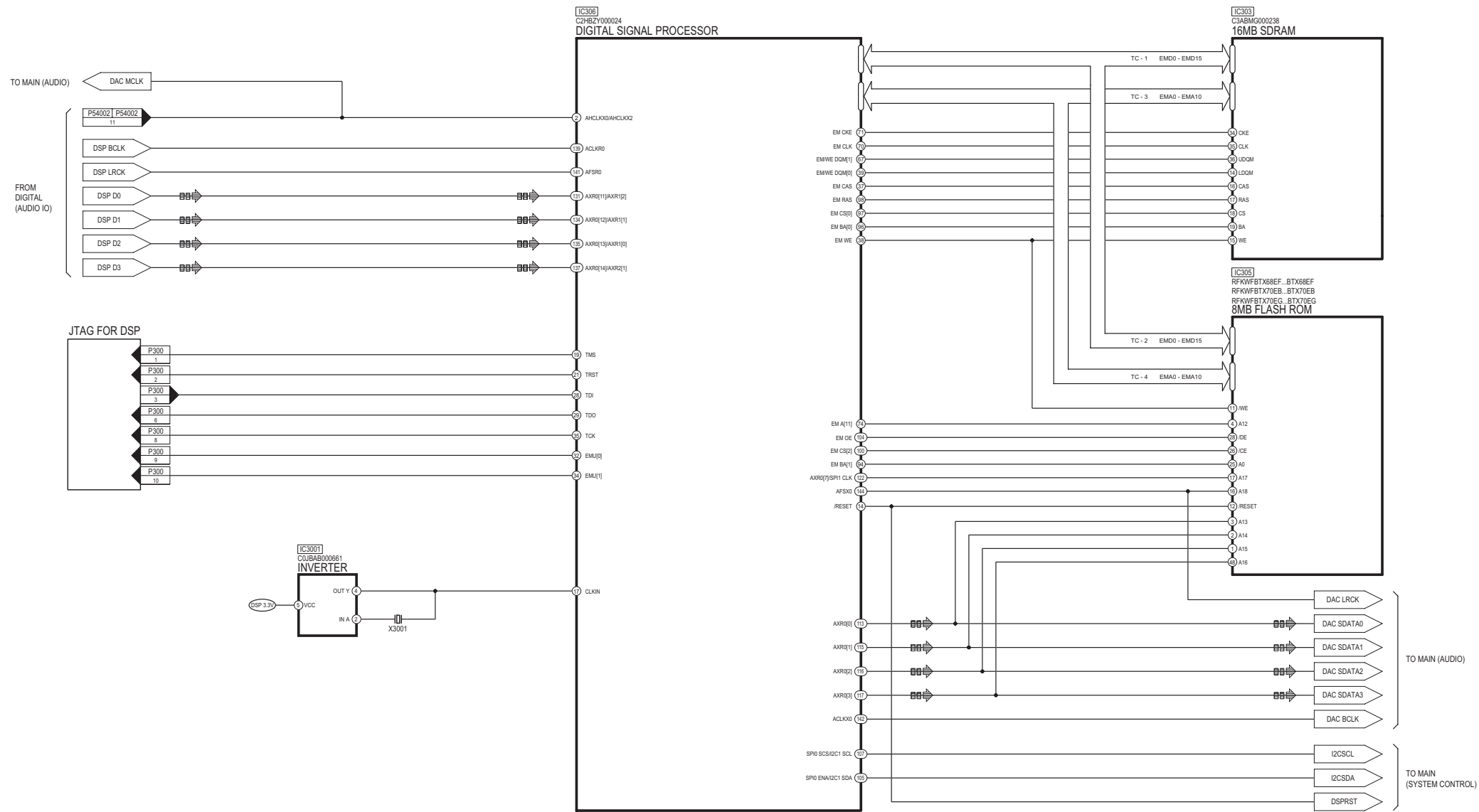
13.7. Digital (Regulator)



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      |

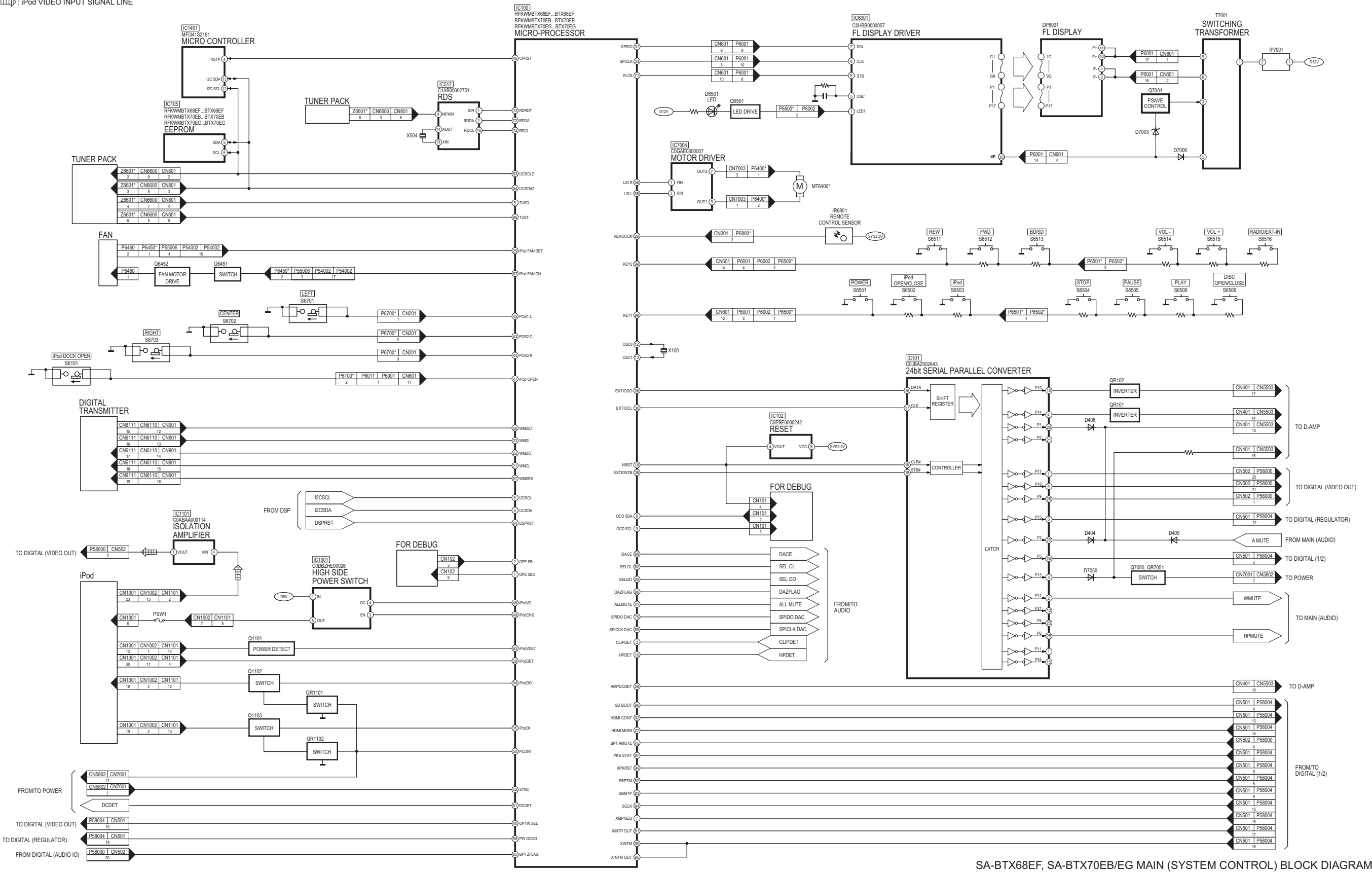
| TC | IC306 / DIGITAL SIGNAL PROCESSOR |        | SIGNAL NAME | IC305 / 8MB FLASH ROM |           |
|----|----------------------------------|--------|-------------|-----------------------|-----------|
|    | Port Name                        | Pin No |             | Pin No                | Port Name |
| 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)

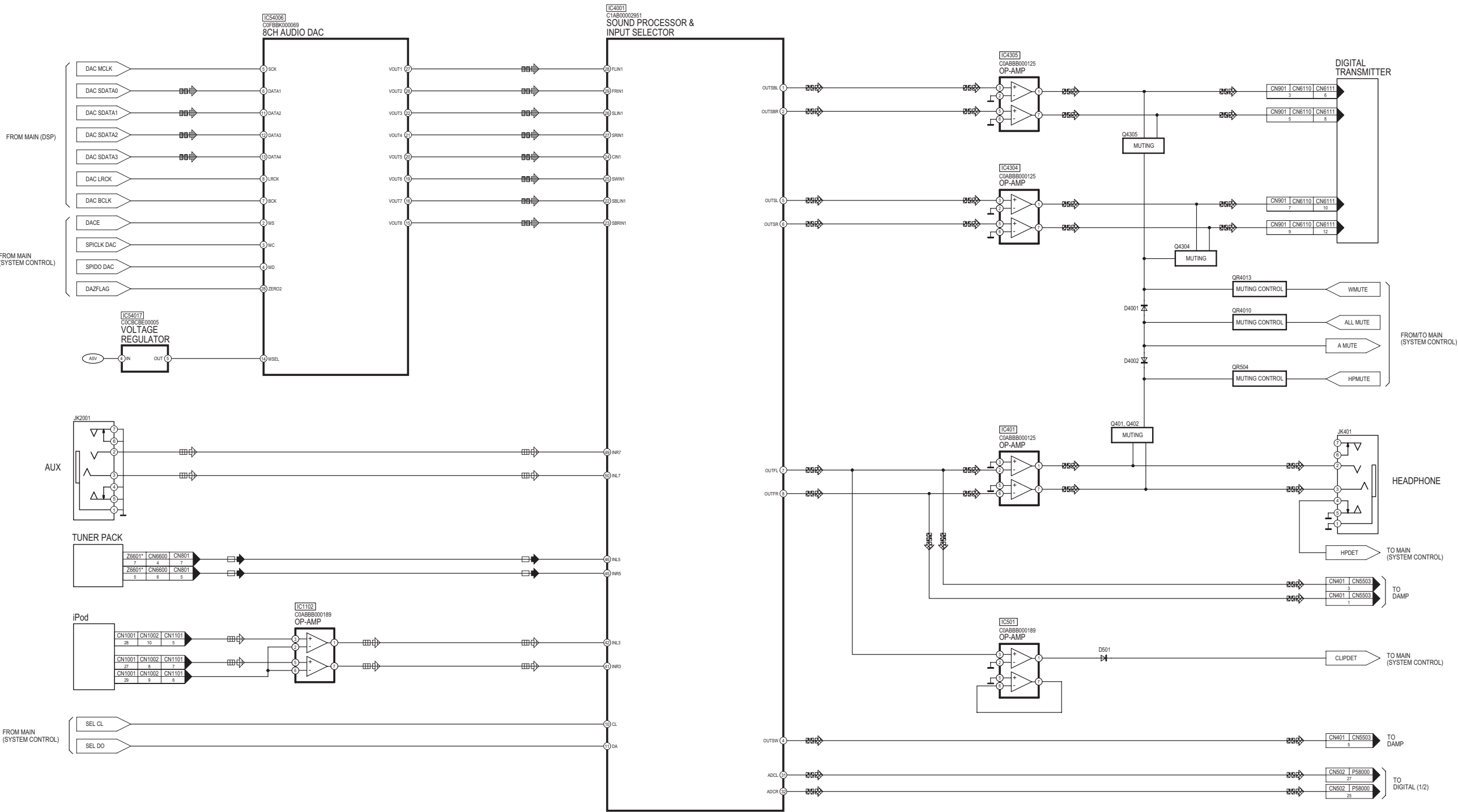
iPod VIDEO INPUT SIGNAL LINE



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

# 13.11. Main (Audio)

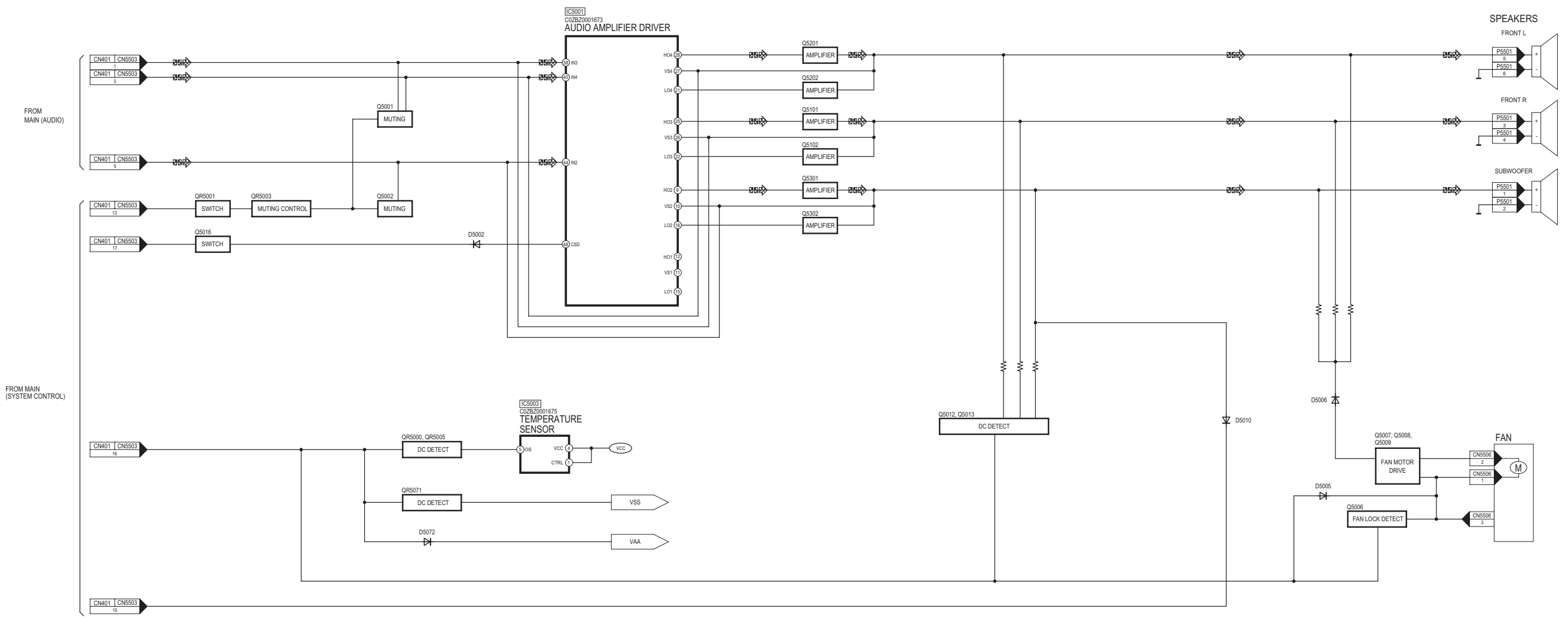
 : BD/DVD AUDIO INPUT SIGNAL LINE   
  : iPod/AUX AUDIO INPUT SIGNAL LINE   
  : AUDIO OUTPUT SIGNAL LINE   
  : FM SIGNAL LINE



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

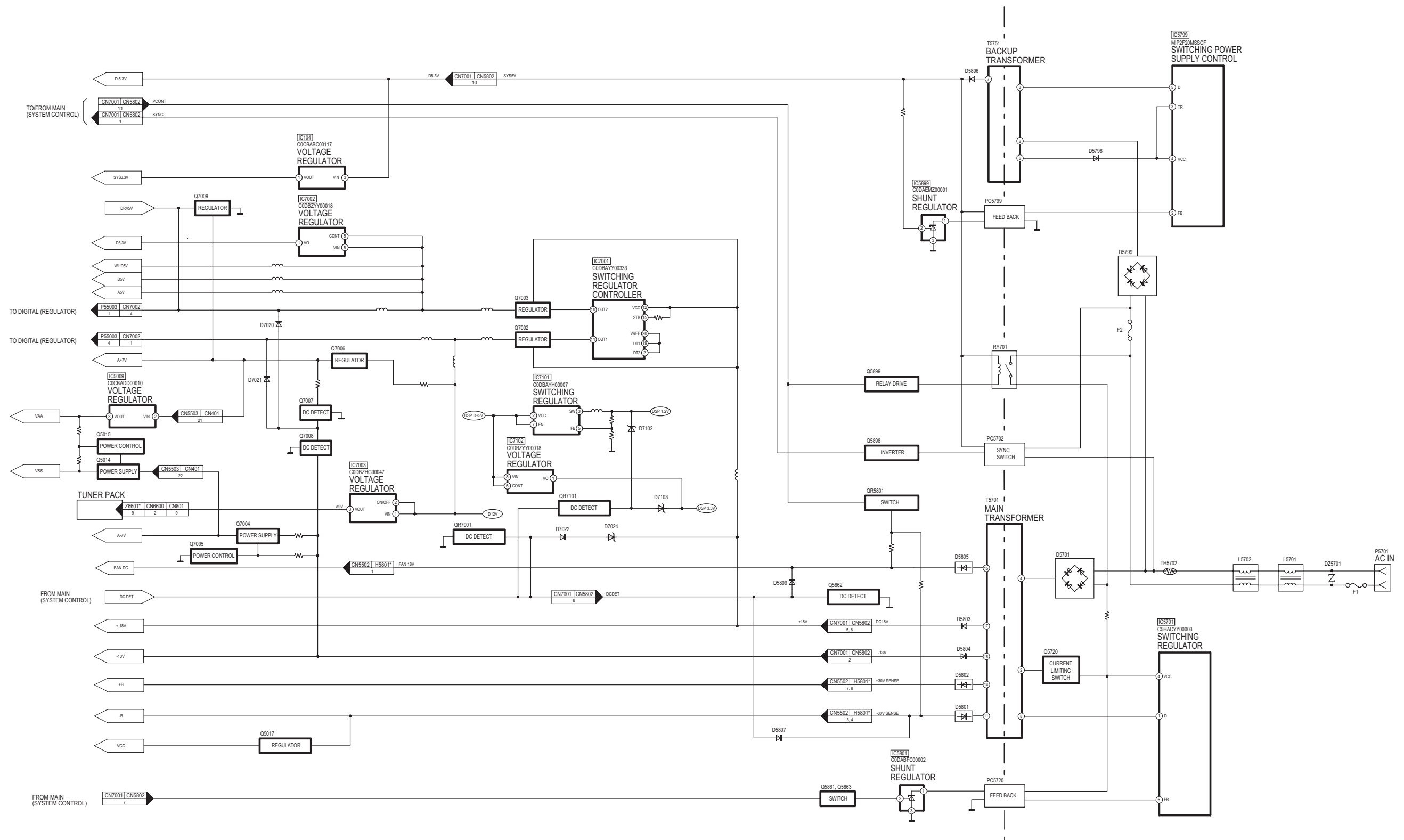
13.12. D-Amp

: AUDIO OUTPUT SIGNAL LINE



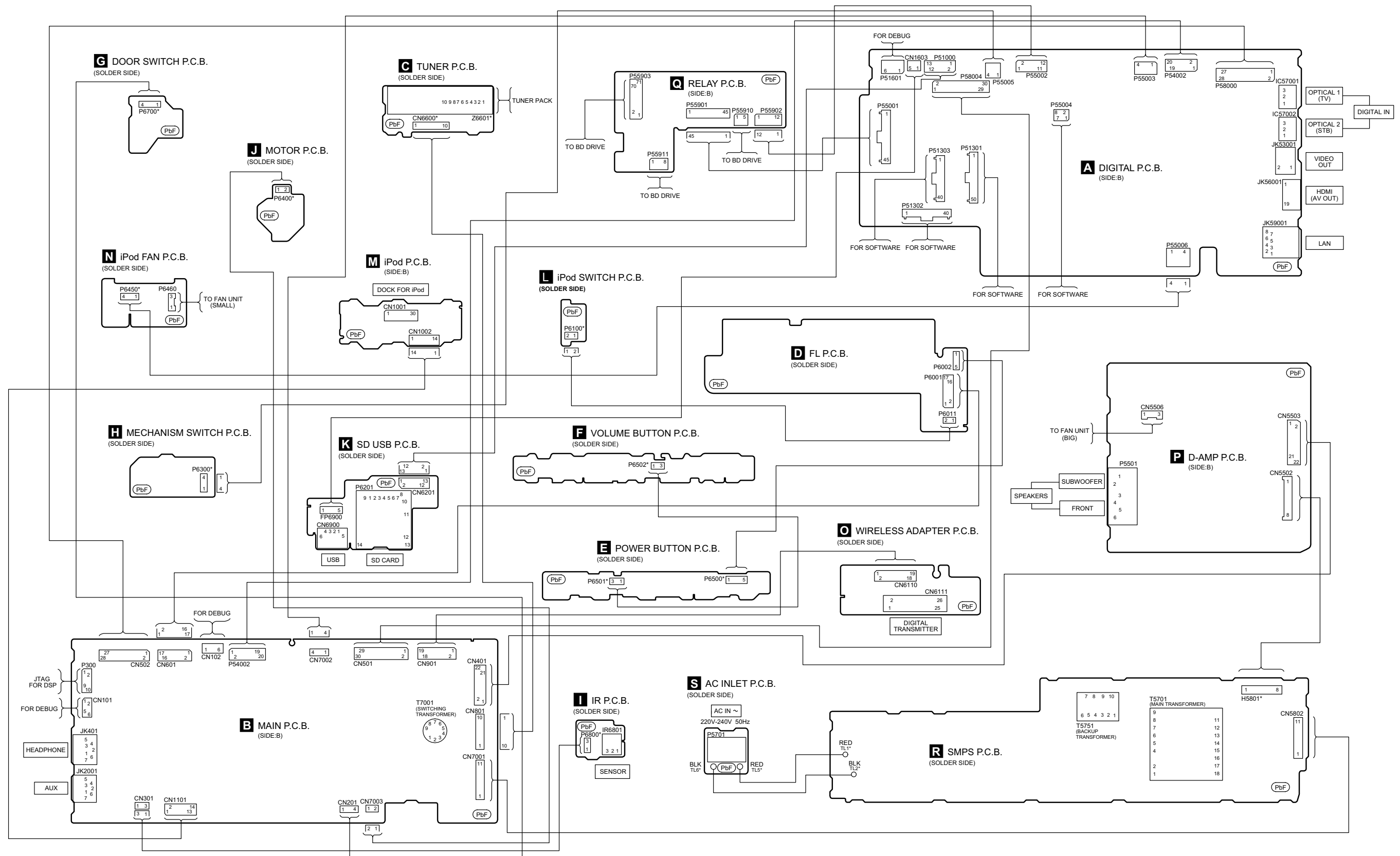
SA-BTX68EF, SA-BTX70EB/EG D-AMP BLOCK DIAGRAM

### 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:

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

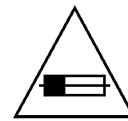
- \*

Ref. is for indication only.

- Voltage and signal line

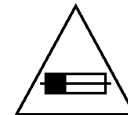
|                                                                                   |                                           |
|-----------------------------------------------------------------------------------|-------------------------------------------|
|  | :+B signal line                           |
|  | :-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

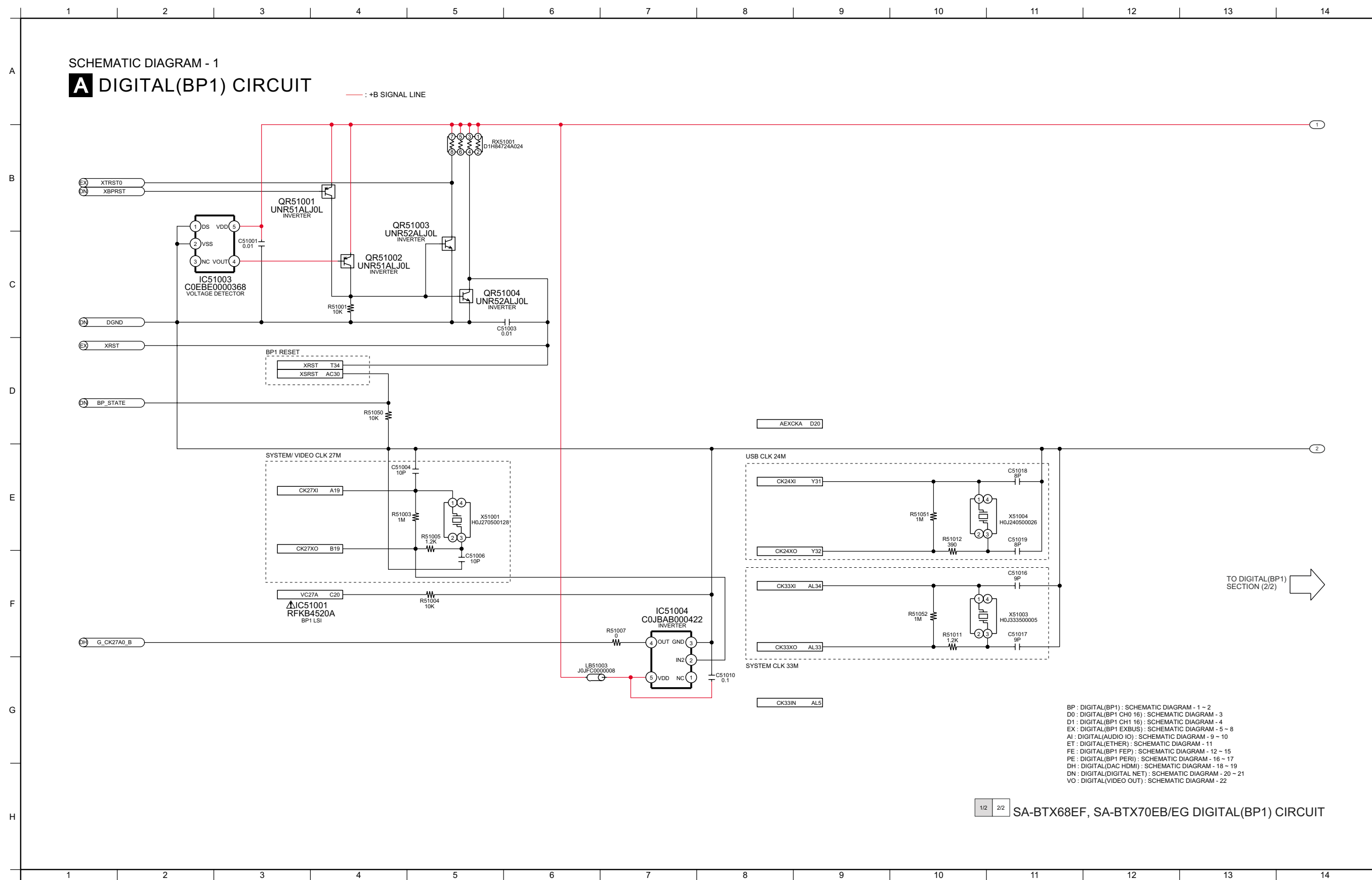


These symbols located near the fuse indicates that the fuse used is a fast operating type. For continued protection against fire harzard, replace with the same type fuse. For fuse rating, refer to the marking adjacent to the symbol.



# 16 Schematic Diagram

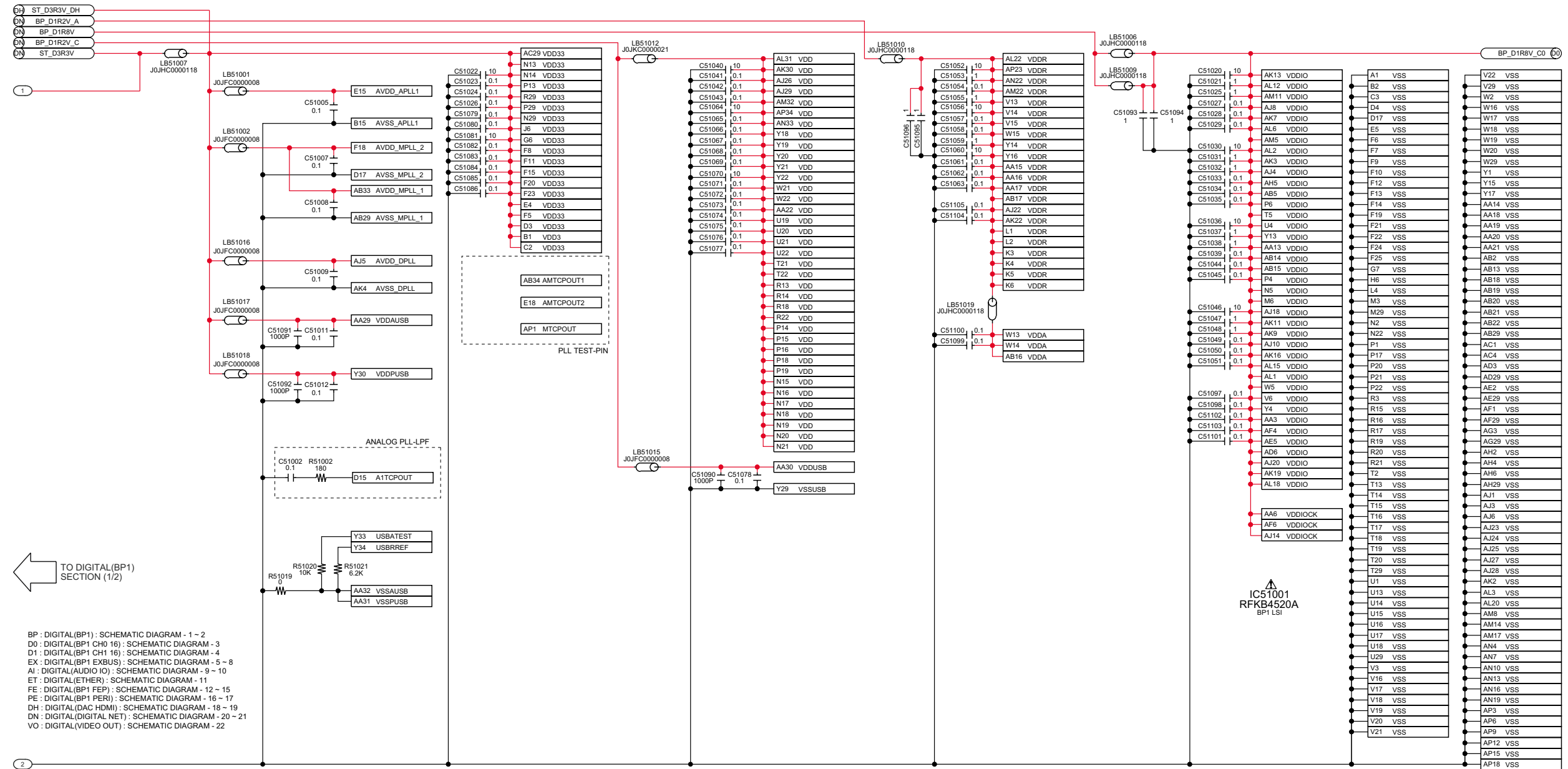
## 16.1. Digital Circuit



SCHEMATIC DIAGRAM - 2

**A** DIGITAL(BP1) CIRCUIT

— : +B SIGNAL LINE



## A DIGITAL(BP1 CH0 16) CIRCUIT

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

BP : DIGITAL(BP1) : SCHEMATIC DIAGRAM - 1 ~ 2  
 DO : DIGITAL(BP1 CH0 16) : SCHEMATIC DIAGRAM - 3  
 D1 : DIGITAL(BP1 CH0 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 - 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 |

|       |    |
|-------|----|
| C1CK  | Y3 |
| C1XCK | Y2 |

|       |    |
|-------|----|
| C1CK  | Y3 |
| C1XCK | Y2 |

|       |    |
|-------|----|
| C1CK  | Y3 |
| C1XCK | Y2 |

|       |    |
|-------|----|
| C1CK  | Y3 |
| C1XCK | Y2 |

|       |    |
|-------|----|
| C1CK  | Y3 |
| C1XCK | Y2 |

|       |    |
|-------|----|
| C1CK  | Y3 |
| C1XCK | Y2 |

|       |    |
|-------|----|
| C1CK  | Y3 |
| C1XCK | Y2 |

|       |    |
|-------|----|
| C1CK  | Y3 |
| C1XCK | Y2 |

|       |    |
|-------|----|
| C1CK  | Y3 |
| C1XCK | Y2 |

|       |    |
|-------|----|
| C1CK  | Y3 |
| C1XCK | Y2 |

|       |    |
|-------|----|
| C1CK  | Y3 |
| C1XCK | Y2 |

|       |    |
|-------|----|
| C1CK  | Y3 |
| C1XCK | Y2 |

|        |    |
|--------|----|
| 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 |

|       |    |
|-------|----|
| C1CK  | Y3 |
| C1XCK | Y2 |

|       |    |
|-------|----|
| C1CK  | Y3 |
| C1XCK | Y2 |

|       |    |
|-------|----|
| C1CK  | Y3 |
| C1XCK | Y2 |

|       |    |
|-------|----|
| C1CK  | Y3 |
| C1XCK | Y2 |

|       |    |
|-------|----|
| C1CK  | Y3 |
| C1XCK | Y2 |

|       |    |
|-------|----|
| C1CK  | Y3 |
| C1XCK | Y2 |

|       |    |
|-------|----|
| C1CK  | Y3 |
| C1XCK | Y2 |

|       |    |
|-------|----|
| C1CK  | Y3 |
| C1XCK | Y2 |

|       |    |
|-------|----|
| C1CK  | Y3 |
| C1XCK | Y2 |

|       |    |
|-------|----|
| C1BA0 | 2L |
| C1BA1 | 3L |
| C1A12 | 2R |
| C1A11 | 7P |
| C1A10 | 2M |
| C1A9  | 3P |
| C1A8  | 8P |
| C1A7  | 2P |
| C1A6  | 7N |
| C1A5  | 5N |
| C1A4  | 3N |
| C1A3  | 2N |
| C1A2  | 7M |
| C1A1  | 3M |
| C1A0  | 8M |

|       |    |
|-------|----|
| C1BA0 | 2L |
| C1BA1 | 3L |
| C1A12 | 2R |
| C1A11 | 7P |
| C1A10 | 2M |
| C1A9  | 3P |
| C1A8  | 8P |
| C1A7  | 2P |
| C1A6  | 7N |
| C1A5  | 5N |
| C1A4  | 3N |
| C1A3  | 2N |
| C1A2  | 7M |
| C1A1  | 3M |
| C1A0  | 8M |

|       |    |
|-------|----|
| C1BA0 | 2L |
| C1BA1 | 3L |
| C1A12 | 2R |
| C1A11 | 7P |
| C1A10 | 2M |
| C1A9  | 3P |
| C1A8  | 8P |
| C1A7  | 2P |
| C1A6  | 7N |
| C1A5  | 5N |
| C1A4  | 3N |
| C1A3  | 2N |
| C1A2  | 7M |
| C1A1  | 3M |
| C1A0  | 8M |

|       |    |
|-------|----|
| C1BA0 | 2L |
| C1BA1 | 3L |
| C1A12 | 2R |
| C1A11 | 7P |
| C1A10 | 2M |
| C1A9  | 3P |
| C1A8  | 8P |
| C1A7  | 2P |
| C1A6  | 7N |
| C1A5  | 5N |
| C1A4  | 3N |
| C1A3  | 2N |
| C1A2  | 7M |
| C1A1  | 3M |
| C1A0  | 8M |

|       |    |
|-------|----|
| C1BA0 | 2L |
| C1BA1 | 3L |
| C1A12 | 2R |
| C1A11 | 7P |
| C1A10 | 2M |
| C1A9  | 3P |
| C1A8  | 8P |
| C1A7  | 2P |
| C1A6  | 7N |
| C1A5  | 5N |
| C1A4  | 3N |
| C1A3  | 2N |
| C1A2  | 7M |
| C1A1  | 3M |
| C1A0  | 8M |

|       |    |
|-------|----|
| C1BA0 | 2L |
| C1BA1 | 3L |
| C1A12 | 2R |
| C1A11 | 7P |
| C1A10 | 2M |
| C1A9  | 3P |
| C1A8  | 8P |
| C1A7  | 2P |
| C1A6  | 7N |
| C1A5  | 5N |
| C1A4  | 3N |
| C1A3  | 2N |
| C1A2  | 7M |
| C1A1  | 3M |
| C1A0  | 8M |

|       |    |
|-------|----|
| C1BA0 | 2L |
| C1BA1 | 3L |
| C1A12 | 2R |
| C1A11 | 7P |
| C1A10 | 2M |
| C1A9  | 3P |
| C1A8  | 8P |
| C1A7  | 2P |
| C1A6  | 7N |
| C1A5  | 5N |
| C1A4  | 3N |
| C1A3  | 2N |
| C1A2  | 7M |
| C1A1  | 3M |
| C1A0  | 8M |

|       |    |
|-------|----|
| C1BA0 | 2L |
| C1BA1 | 3L |
| C1A12 | 2R |
| C1A11 | 7P |
| C1A10 | 2M |
| C1A9  | 3P |
| C1A8  | 8P |
| C1A7  | 2P |
| C1A6  | 7N |
| C1A5  | 5N |
| C1A4  | 3N |
| C1A3  | 2N |
| C1A2  | 7M |
| C1A1  | 3M |
| C1A0  | 8M |

|       |    |
|-------|----|
| C1BA0 | 2L |
| C1BA1 | 3L |
| C1A12 | 2R |
| C1A11 | 7P |
| C1A10 | 2M |
| C1A9  | 3P |
| C1A8  | 8P |
| C1A7  | 2P |
| C1A6  | 7N |
| C1A5  | 5N |
| C1A4  | 3N |
| C1A3  | 2N |
| C1A2  | 7M |
| C1A1  | 3M |
| C1A0  | 8M |

|       |    |
|-------|----|
| C1BA0 | 2L |
| C1BA1 | 3L |
| C1A12 | 2R |
| C1A11 | 7P |
| C1A10 | 2M |
| C1A9  | 3P |
| C1A8  | 8P |
| C1A7  | 2P |
| C1A6  | 7N |
| C1A5  | 5N |
| C1A4  | 3N |
| C1A3  | 2N |
| C1A2  | 7M |
| C1A1  | 3M |
| C1A0  | 8M |

|       |    |
|-------|----|
| C1BA0 | 2L |
| C1BA1 | 3L |
| C1A12 | 2R |
| C1A11 | 7P |
| C1A10 | 2M |
| C1A9  | 3P |
| C1A8  | 8P |
| C1A7  | 2P |
| C1A6  | 7N |
| C1A5  | 5N |
| C1A4  | 3N |
| C1A3  | 2N |
| C1A2  | 7M |
| C1A1  | 3M |
| C1A0  | 8M |

|       |    |
|-------|----|
| C1BA0 | 2L |
| C1BA1 | 3L |
| C1A12 | 2R |
| C1A11 | 7P |
| C1A10 | 2M |
| C1A9  | 3P |
| C1A8  | 8P |
| C1A7  | 2P |
| C1A6  | 7N |
| C1A5  | 5N |
| C1A4  | 3N |
| C1A3  | 2N |
| C1A2  | 7M |
| C1A1  | 3M |
| C1A0  | 8M |

|       |    |
|-------|----|
| C1BA0 | 2L |
| C1BA1 | 3L |
| C1A12 | 2R |
| C1A11 | 7P |
| C1A10 | 2M |
| C1A9  | 3P |
| C1A8  | 8P |
| C1A7  | 2P |
| C1A6  | 7N |
| C1A5  | 5N |
| C1A4  | 3N |
| C1A3  | 2N |
| C1A2  | 7M |
| C1A1  | 3M |
| C1A0  | 8M |

|       |    |
|-------|----|
| C1BA0 | 2L |
| C1BA1 | 3L |
| C1A12 | 2R |
| C1A11 | 7P |
| C1A10 | 2M |
| C1A9  | 3P |
| C1A8  | 8P |
| C1A7  | 2P |
| C1A6  | 7N |
| C1A5  | 5N |
| C1A4  | 3N |
| C1A3  | 2N |
| C1A2  | 7M |
| C1A1  | 3M |
| C1A0  | 8M |

|       |    |
|-------|----|
| C1BA0 | 2L |
| C1BA1 | 3L |
| C1A12 | 2R |
| C1A11 | 7P |
| C1A10 | 2M |
| C1A9  | 3P |
| C1A8  | 8P |
| C1A7  | 2P |
| C1A6  | 7N |
| C1A5  | 5N |
| C1A4  | 3N |
| C1A3  | 2N |
| C1A2  | 7M |
| C1A1  | 3M |
| C1A0  | 8M |

|       |    |
|-------|----|
| C1BA0 | 2L |
| C1BA1 | 3L |
| C1A12 | 2R |
| C1A11 | 7P |
| C1A10 | 2M |
| C1A9  | 3P |
| C1A8  | 8P |
| C1A7  | 2P |
| C1A6  | 7N |
| C1A5  | 5N |
| C1A4  | 3N |
| C1A3  | 2N |
| C1A2  | 7M |
| C1A1  | 3M |
| C1A0  | 8M |

|       |    |
|-------|----|
| C1BA0 | 2L |
| C1BA1 | 3L |
| C1A12 | 2R |
| C1A11 | 7P |
| C1A10 | 2M |
| C1A9  | 3P |
| C1A8  | 8P |
| C1A7  | 2P |
| C1A6  | 7N |
| C1A5  | 5N |
| C1A4  | 3N |
| C1A3  | 2N |
| C1A2  | 7M |
| C1A1  | 3M |
| C1A0  | 8M |

|       |    |
|-------|----|
| C1BA0 | 2L |
| C1BA1 | 3L |
| C1A12 | 2R |
| C1A11 | 7P |
| C1A10 | 2M |
| C1A9  | 3P |
| C1A8  | 8P |
| C1A7  | 2P |
| C1A6  | 7N |
| C1A5  | 5N |
| C1A4  | 3N |
| C1A3  | 2N |
| C1A2  | 7M |
| C1A1  | 3M |
| C1A0  | 8M |

|       |    |
|-------|----|
| C1BA0 | 2L |
| C1BA1 | 3L |
| C1A12 | 2R |
| C1A11 | 7P |
| C1A10 | 2M |
| C1A9  | 3P |
| C1A8  | 8P |
| C1A7  | 2P |
| C1A6  | 7N |
| C1A5  | 5N |
| C1A4  | 3N |
| C1A3  | 2N |
| C1A2  | 7M |
| C1A1  | 3M |
| C1A0  | 8M |

|       |    |
|-------|----|
| C1BA0 | 2L |
| C1BA1 | 3L |
| C1A12 | 2R |
| C1A11 | 7P |
| C1A10 | 2M |
| C1A9  | 3P |
| C1A8  | 8P |
| C1A7  | 2P |
| C1A6  | 7N |
| C1A5  | 5N |
| C1A4  | 3N |
| C1A3  | 2N |
| C1A2  | 7M |
| C1A1  | 3M |
| C1A0  | 8M |

|       |    |
|-------|----|
| C1BA0 | 2L |
| C1BA1 | 3L |
| C1A12 | 2R |
| C1A11 | 7P |
| C1A10 | 2M |
| C1A9  | 3P |
| C1A8  | 8P |
| C1A7  | 2P |
| C1A6  | 7N |
| C1A5  | 5N |
| C1A4  | 3N |
| C1A3  | 2N |
| C1A2  | 7M |
| C1A1  | 3M |
| C1A0  | 8M |

|       |    |
|-------|----|
| C1BA0 | 2L |
| C1BA1 | 3L |
| C1A12 | 2R |
| C1A11 | 7P |
| C1A10 | 2M |
| C1A9  | 3P |
| C1A8  | 8P |
| C1A7  | 2P |
| C1A6  | 7N |
| C1A5  | 5N |
| C1A4  | 3N |
| C1A3  | 2N |
| C1A2  | 7M |
| C1A1  | 3M |
| C1A0  | 8M |

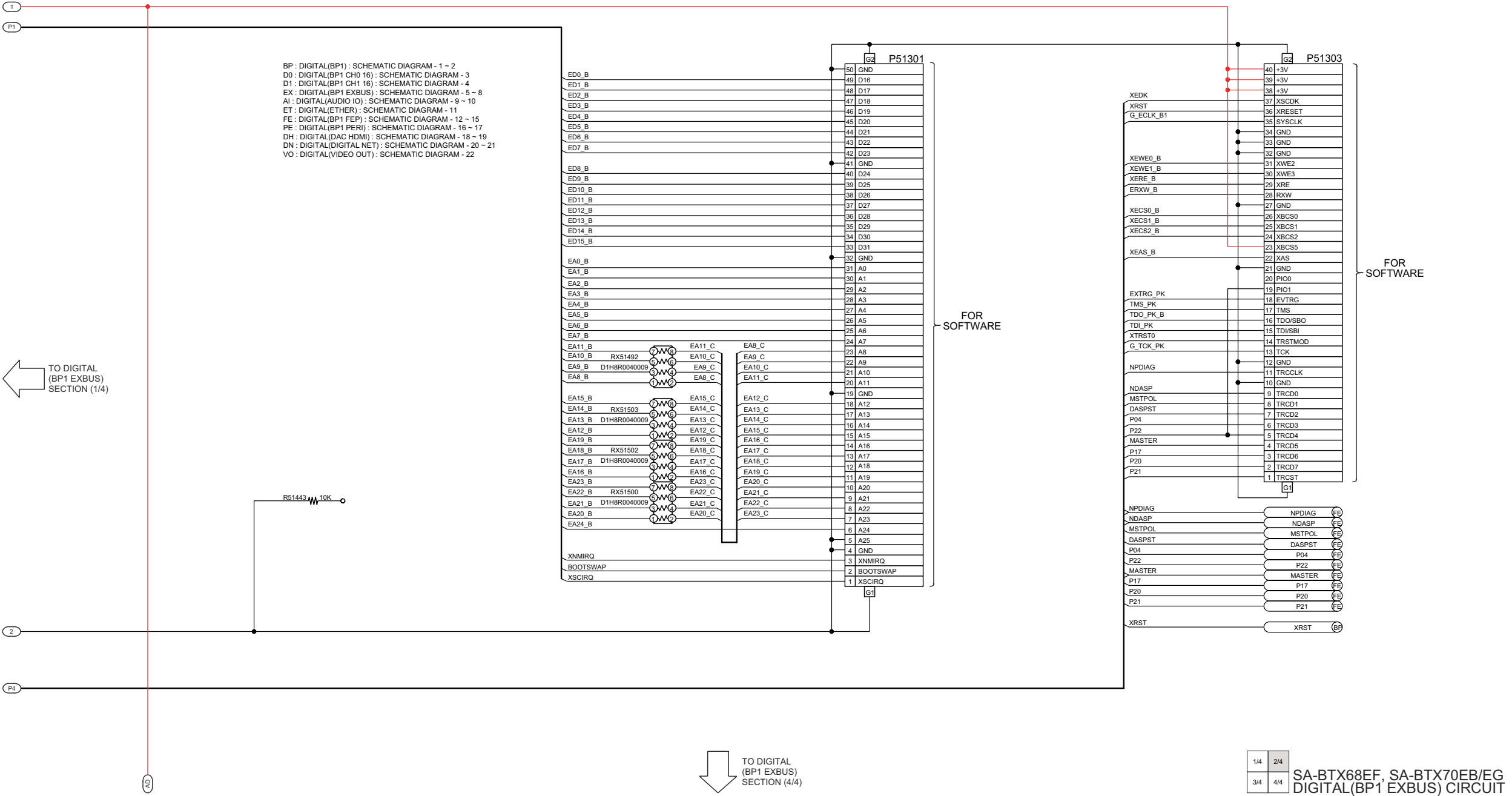
|       |    |
|-------|----|
| C1BA0 | 2L |
| C1BA1 | 3L |
| C1A12 | 2R |
| C1A11 | 7P |
| C1A10 | 2M |
| C1A9  | 3P |
| C1A8  | 8P |
| C1A7  | 2P |
| C1A6  | 7N |
| C1A5  | 5N |



SCHEMATIC DIAGRAM - 6

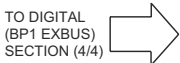
**A** DIGITAL(BP1 EXBUS) CIRCUIT

— : +B SIGNAL LINE



## A DIGITAL(BP1 EXBUS) CIRCUIT

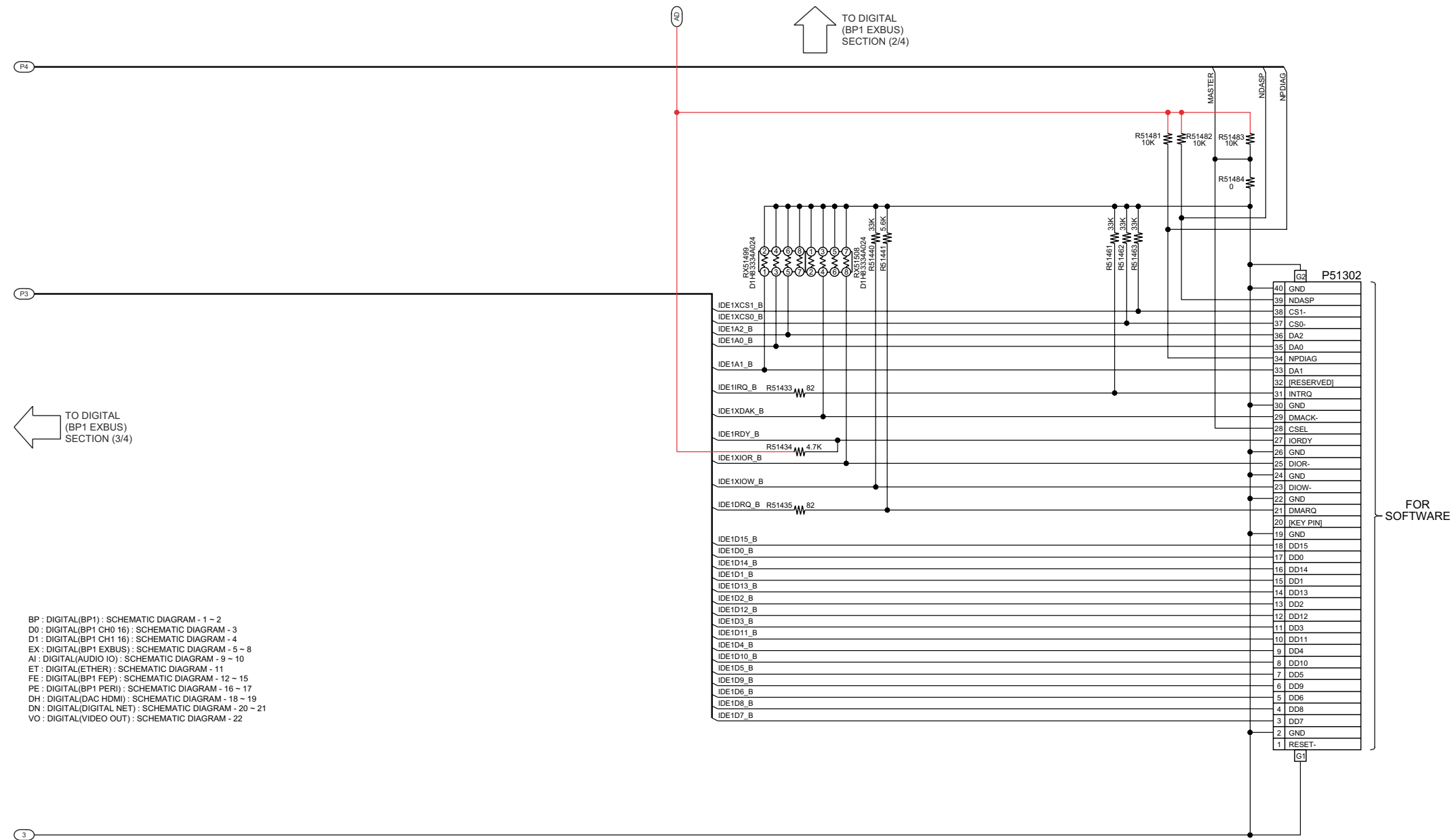
↑ TO DIGITAL  
(BP1 EXBUS)  
SECTION (1/4)



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

## A DIGITAL(BP1 EXBUS) CIRCUIT

— : +B SIGNAL LINE



BP : DIGITAL(BP1) : SCHEMATIC DIAGRAM - 1 ~ 2  
 DO : 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

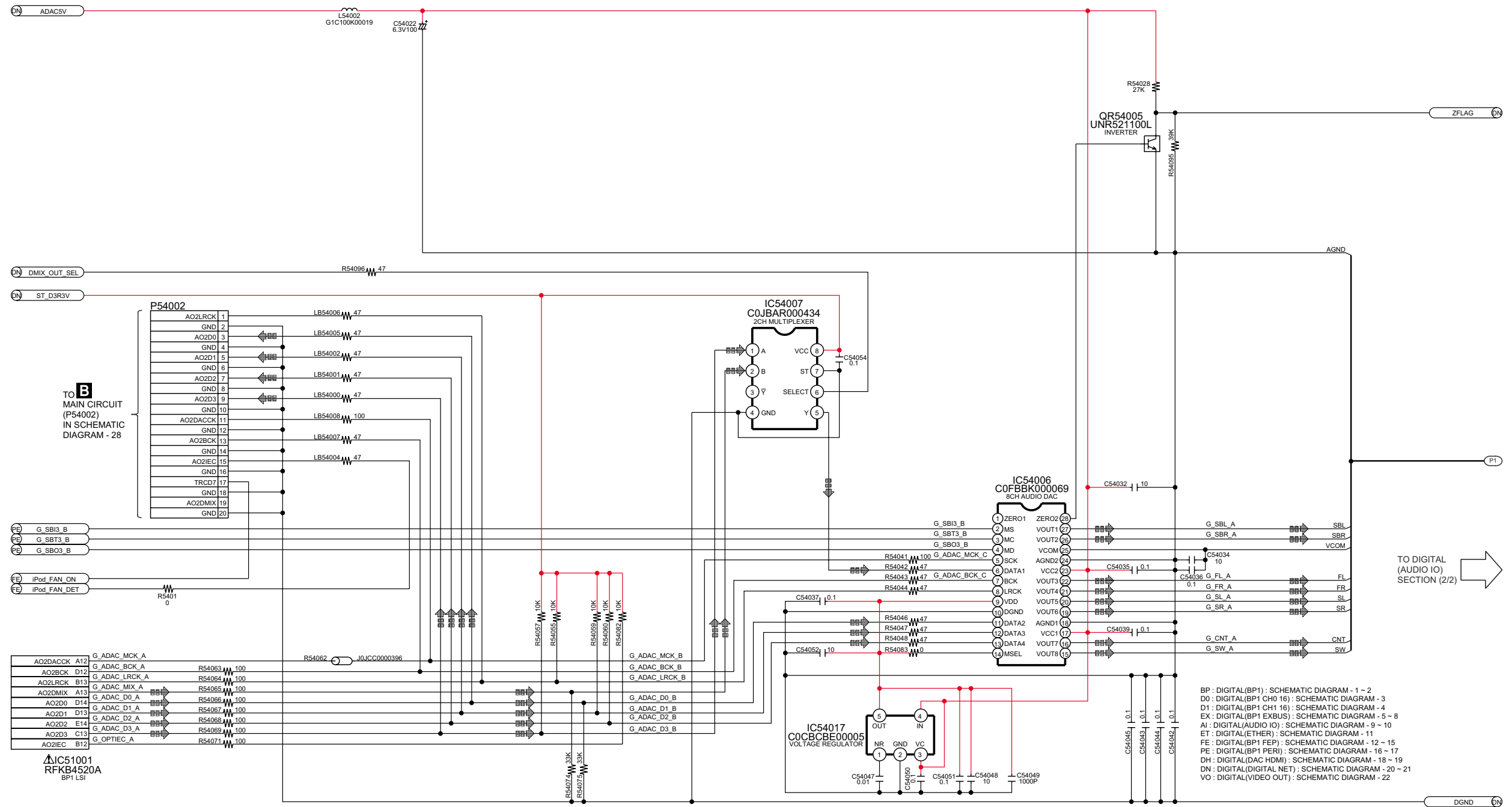
|               |               |
|---------------|---------------|
| $\frac{1}{4}$ | $\frac{2}{4}$ |
| $\frac{3}{4}$ | $\frac{4}{4}$ |

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

SCHEMATIC DIAGRAM - 9

**A** DIGITAL(AUDIO IO) CIRCUIT

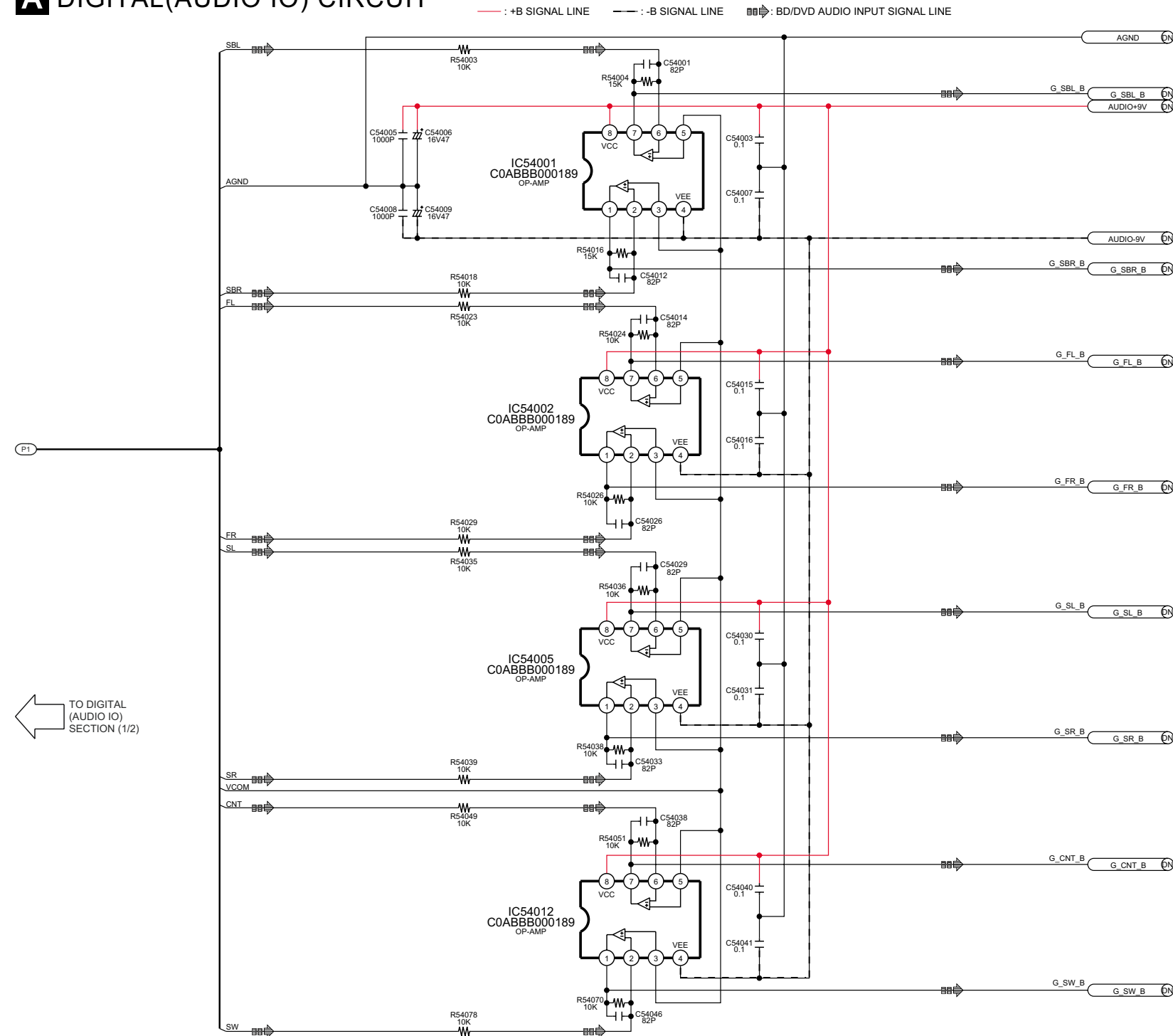
— : +B SIGNAL LINE — : -B SIGNAL LINE  : BD/DVD AUDIO INPUT SIGNAL LINE



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

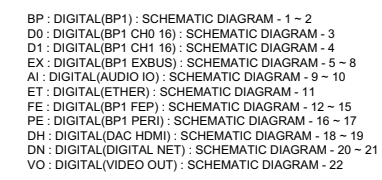
SCHEMATIC DIAGRAM - 10

**A** DIGITAL(AUDIO IO) CIRCUIT



## A DIGITAL(ETHER) CIRCUIT

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

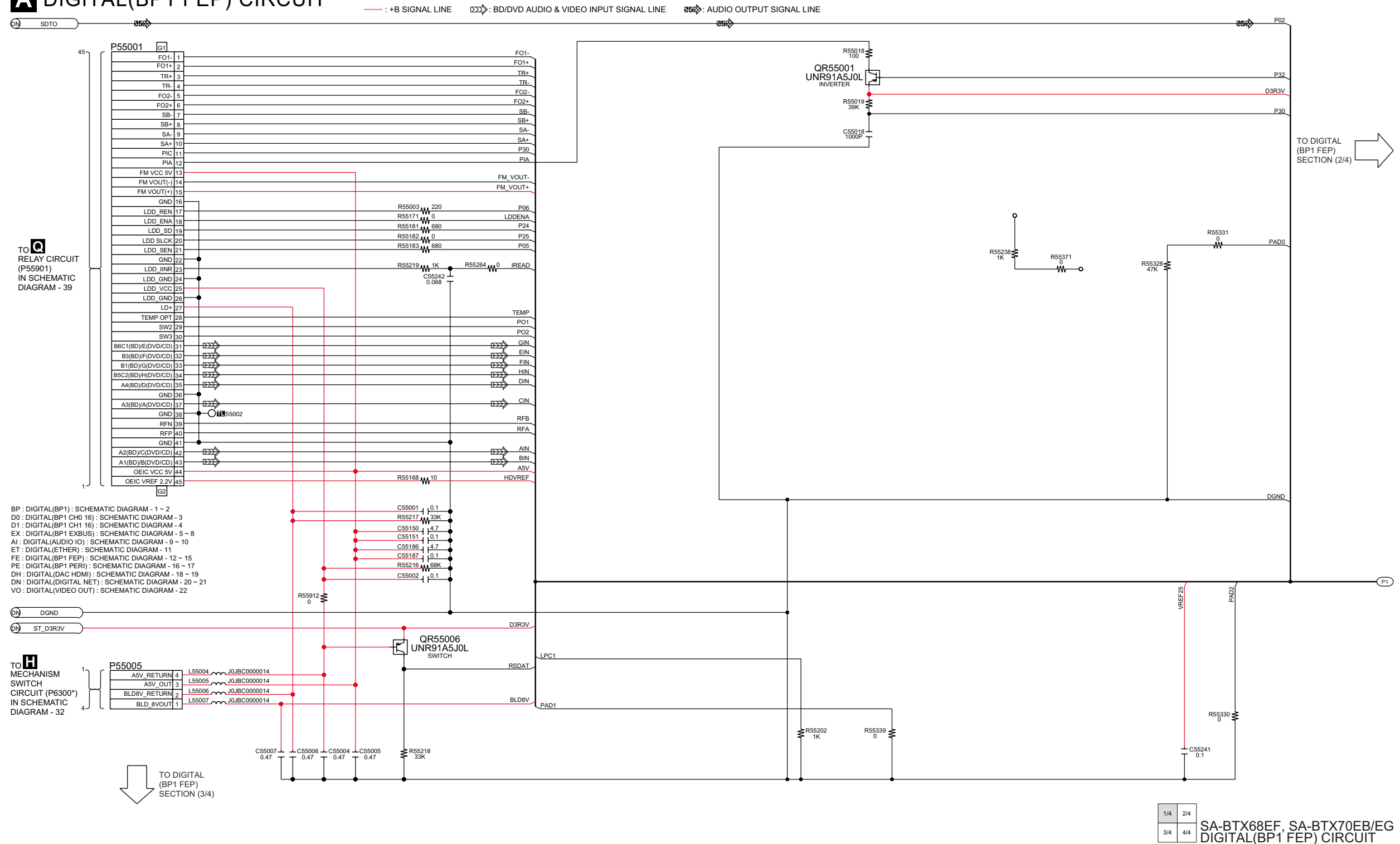


SA-BTX68EF, SA-BTX70EB/EG DIGITAL(ETHER) CIRCUIT

SCHEMATIC DIAGRAM - 12

# A

## DIGITAL(BP1 FEP) CIRCUIT



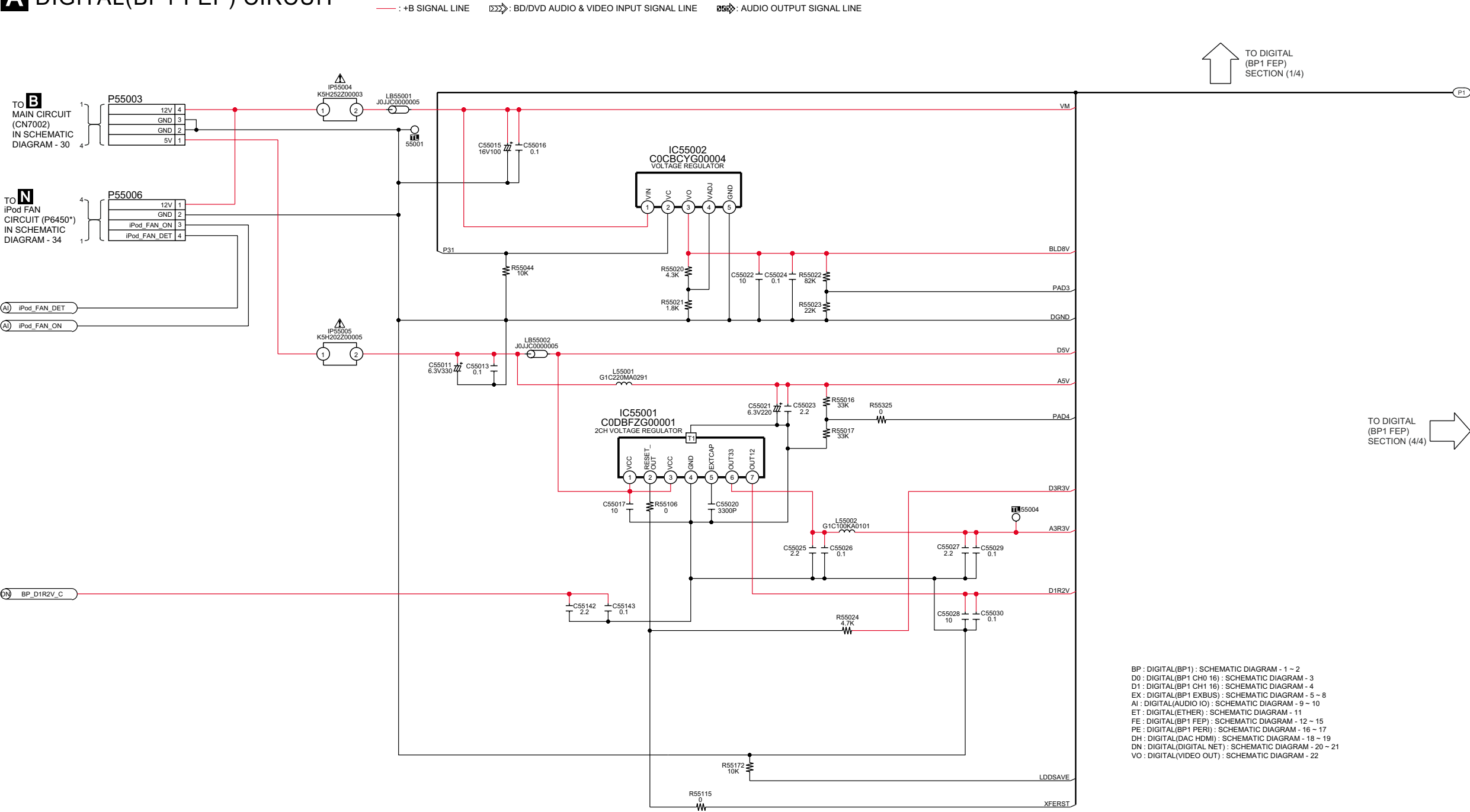
## A DIGITAL(BP1 FEP) CIRCUIT

← TO DIGITAL  
(BP1 FEP)  
SECTION (1/4)



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

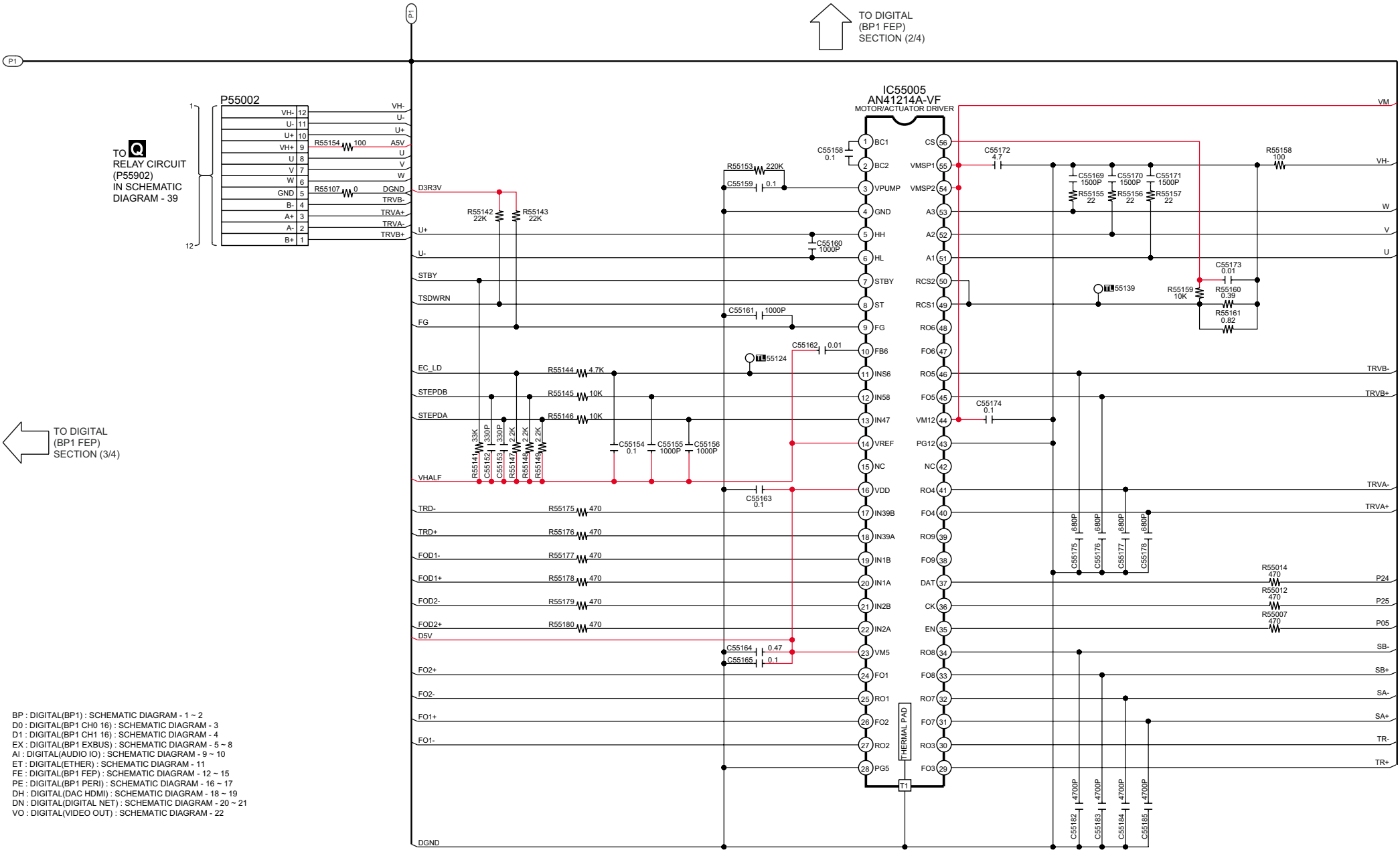
|     |     |
|-----|-----|
| 1/4 | 2/4 |
| 3/4 | 4/4 |

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

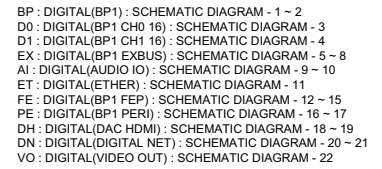


BP : DIGITAL(BP1) : SCHEMATIC DIAGRAM - 1 ~ 2  
D0 : DIGITAL(BP1 CH0 16) : SCHEMATIC DIAGRAM - 3  
D1 : DIGITAL(BP1 CH1 16) : SCHEMATIC DIAGRAM - 4  
EX : DIGITAL(BP1 EXBUS) : SCHEMATIC DIAGRAM - 5 ~ 8  
AI : DIGITAL(AUDIO IO) : SCHEMATIC DIAGRAM - 9 ~ 10  
ET : DIGITAL(ETHER) : SCHEMATIC DIAGRAM - 11  
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

## A DIGITAL(BP1 PERI) CIRCUIT

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



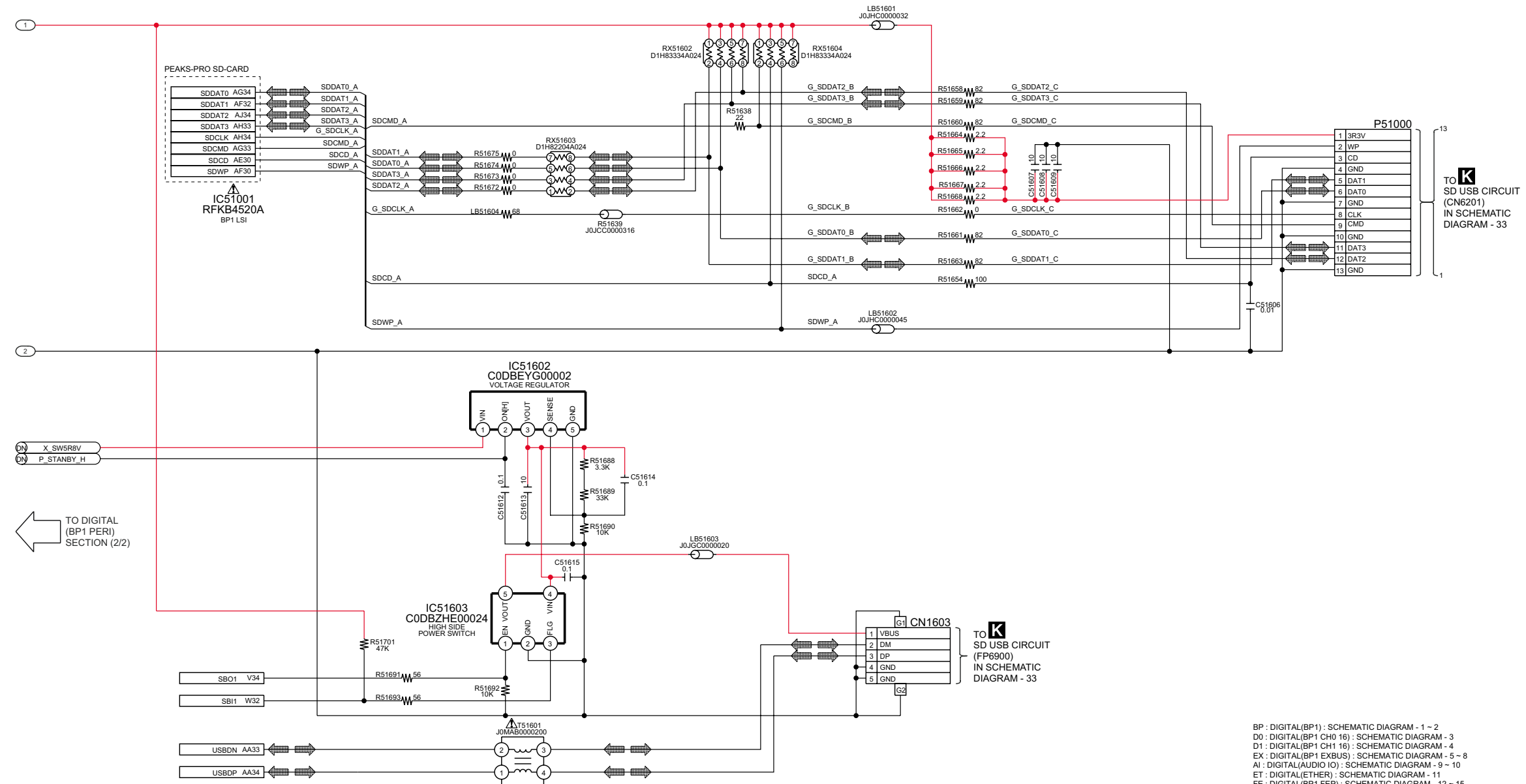
TO DIGITAL  
(BP1 PERI)  
SECTION (2/2)

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

SCHEMATIC DIAGRAM - 17

**A** DIGITAL(BP1 PERI) CIRCUIT

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



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

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

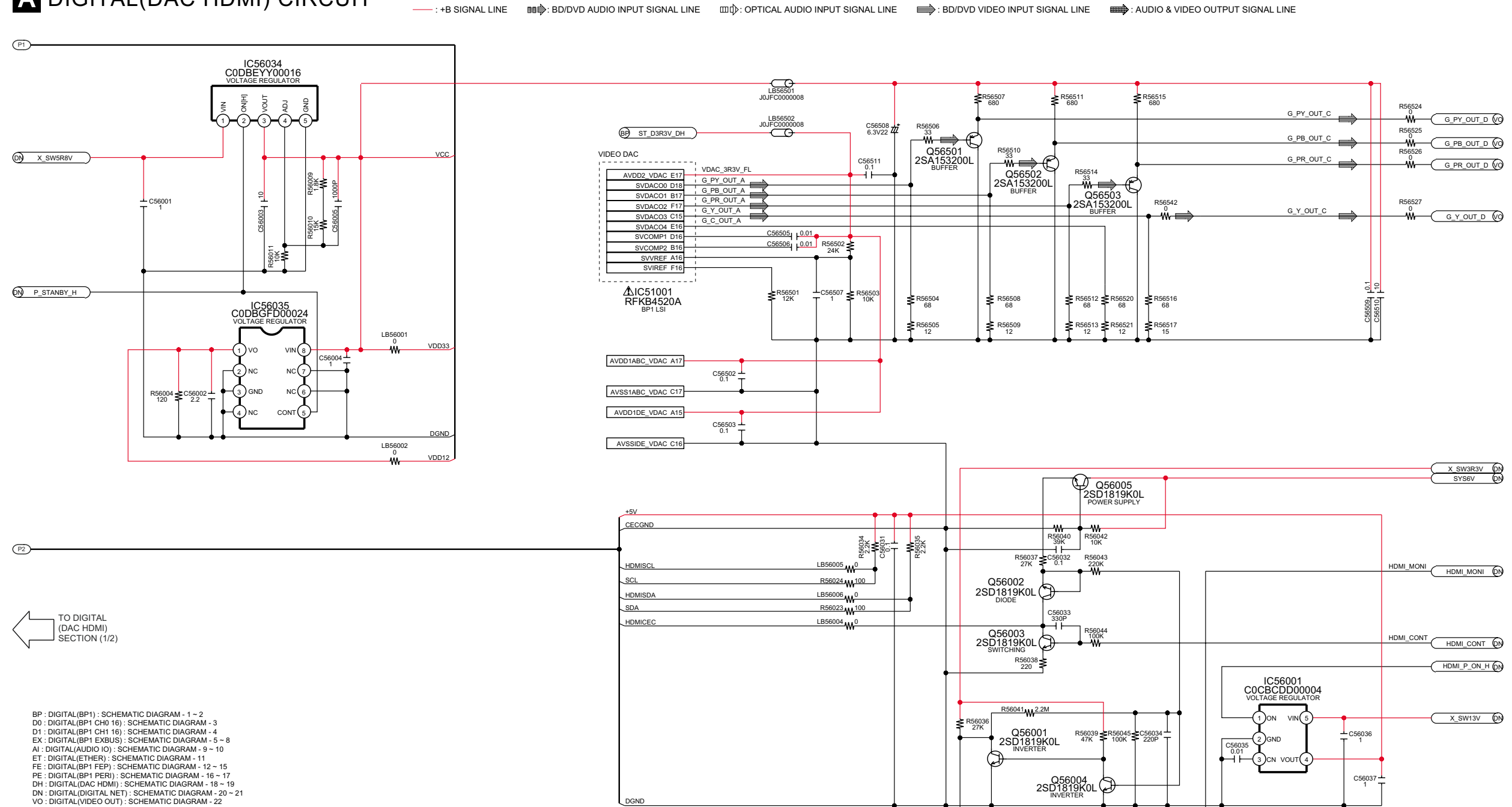
## A DIGITAL(DAC HDMI) CIRCUIT

| D9         |          | DGN2 |  |  |     |
|------------|----------|------|--|--|-----|
| VO1Y11 A7  | PRMY11 A |      |  |  | ①W6 |
| AO1Y10 E12 | PRMY10 A |      |  |  | ②W6 |
| VO1Y9 C8   | PRMY9 A  |      |  |  | ③W6 |
| VO1Y8 D9   | PRMY8 A  |      |  |  | ④W2 |
| VO1Y5 E8   | PRMY5 A  |      |  |  | ⑤W8 |
| VO1Y7 A6   | PRMY7 A  |      |  |  | ⑥W6 |
| VO1Y6 B7   | PRMY6 A  |      |  |  | ⑦W4 |
| VO1Y4 C7   | PRMY4 A  |      |  |  | ⑧W2 |
| VO1C11 A9  | PRMC11 A |      |  |  | ①W2 |
| VO1C10 D10 | PRMC10 A |      |  |  | ②W6 |
| VO1C9 B9   | PRMC9 A  |      |  |  | ③W6 |
| VO1C8 E11  | PRMC8 A  |      |  |  | ④W8 |
| VO1C7 C9   | PRMC7 A  |      |  |  | ⑤W3 |
| VO1C6 E10  | PRMC6 A  |      |  |  | ⑥W6 |
| VO1C5 A8   | PRMC5 A  |      |  |  | ⑦W4 |
| VO1C4 C11  | PRMC4 A  |      |  |  | ⑧W2 |
| VO1Y3 A3   | PRMY3 A  |      |  |  | ①W2 |
| VO1Y2 D6   | PRMY2 A  |      |  |  | ②W6 |
| VO1Y1 C6   | PRMY1 A  |      |  |  | ③W6 |
| VO1Y0 C4   | PRMY0 A  |      |  |  | ④W6 |
| VO1C3 A4   | PRMC3 A  |      |  |  | ⑤W6 |
| VO1C2 C5   | PRMC2 A  |      |  |  | ⑥W6 |
| VO1C1 D8   | PRMC1 A  |      |  |  | ⑦W4 |
| VO1C0 B4   | PRMC0 A  |      |  |  | ⑧W2 |
| VO14Y1 A5  | PRMY41 A |      |  |  |     |
| VO14Y0 E7  | PRMY40 A |      |  |  |     |
| VO14CB1 D7 | PRMCB1 A |      |  |  |     |
| VO14CB0 D5 | PRMCB0 A |      |  |  |     |
| VO14CR1 E9 | PRMCR1 A |      |  |  |     |
| VO14CR0 B8 | PRMCR0 A |      |  |  |     |

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

SCHEMATIC DIAGRAM - 19

# **A** DIGITAL(DAC HDMI) CIRCUIT



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

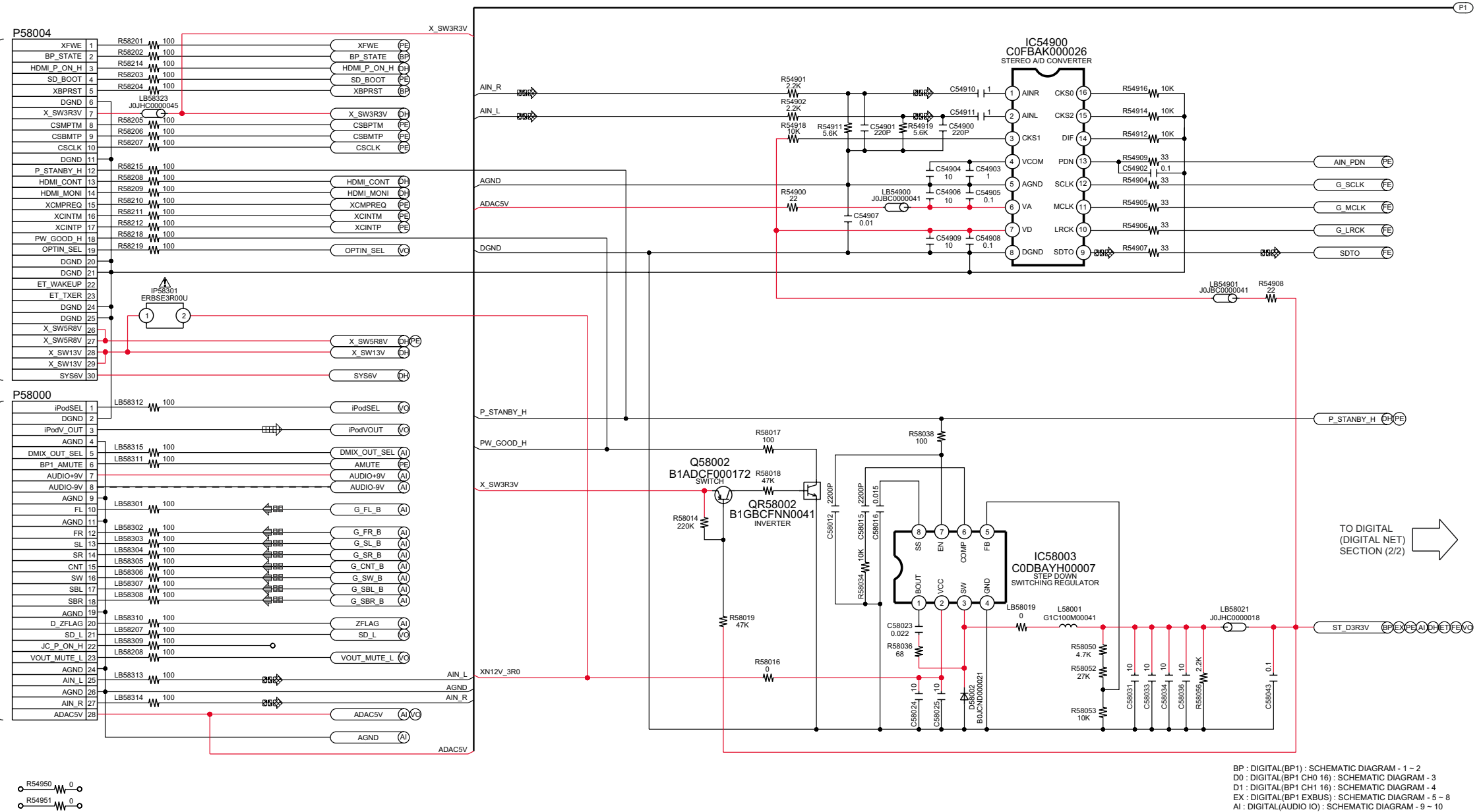
SCHEMATIC DIAGRAM - 20

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

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



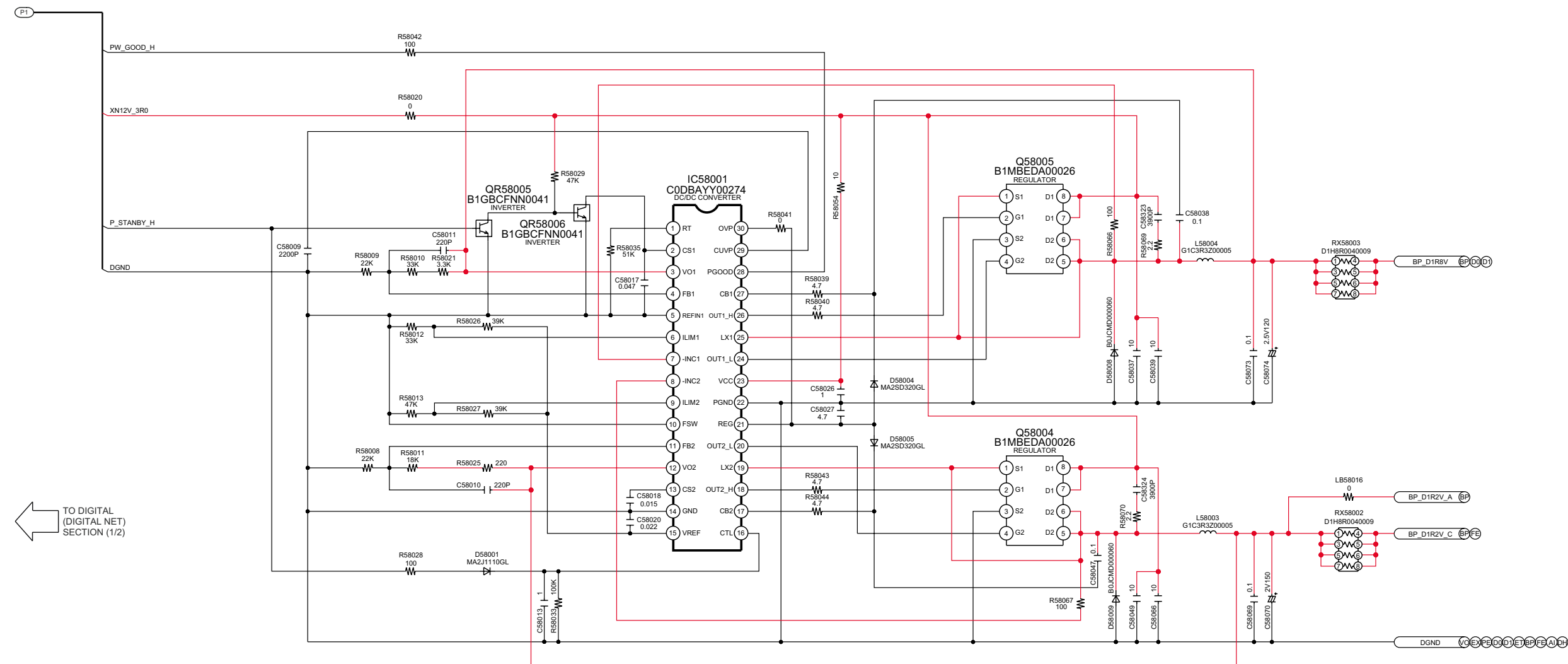
BP : DIGITAL(BP1) : SCHEMATIC DIAGRAM - 1 ~ 2  
D0 : DIGITAL(BP1 CH0 16) : SCHEMATIC DIAGRAM - 3  
D1 : DIGITAL(BP1 CH1 16) : SCHEMATIC DIAGRAM - 4  
EX : DIGITAL(BP1 EXBUS) : SCHEMATIC DIAGRAM - 5 ~ 8  
AI : DIGITAL(AUDIO IO) : SCHEMATIC DIAGRAM - 9 ~ 10  
ET : DIGITAL(ETHER) : SCHEMATIC DIAGRAM - 11  
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

1/2 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

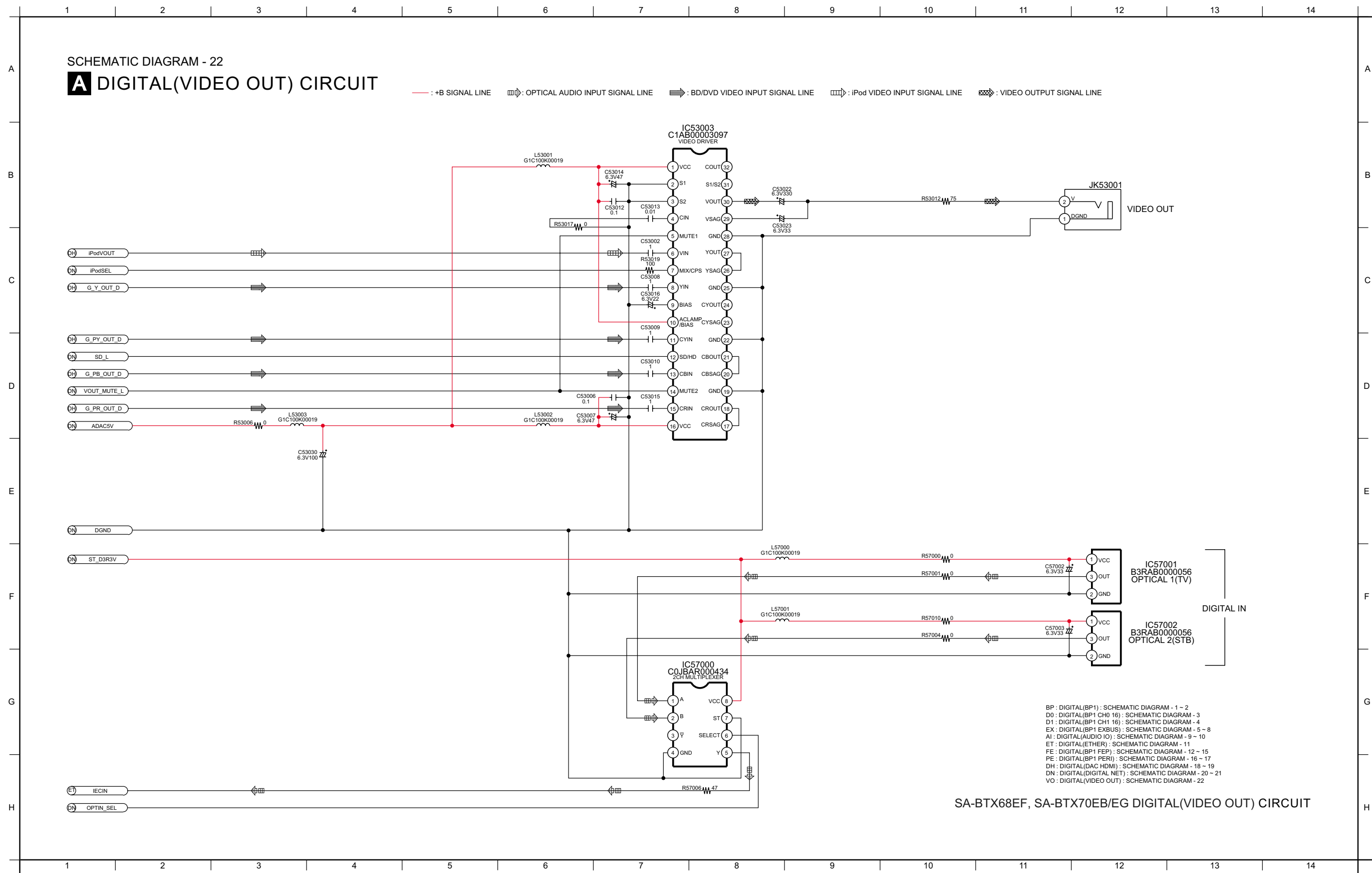


TO DIGITAL  
(DIGITAL NET)  
SECTION (1/2)

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

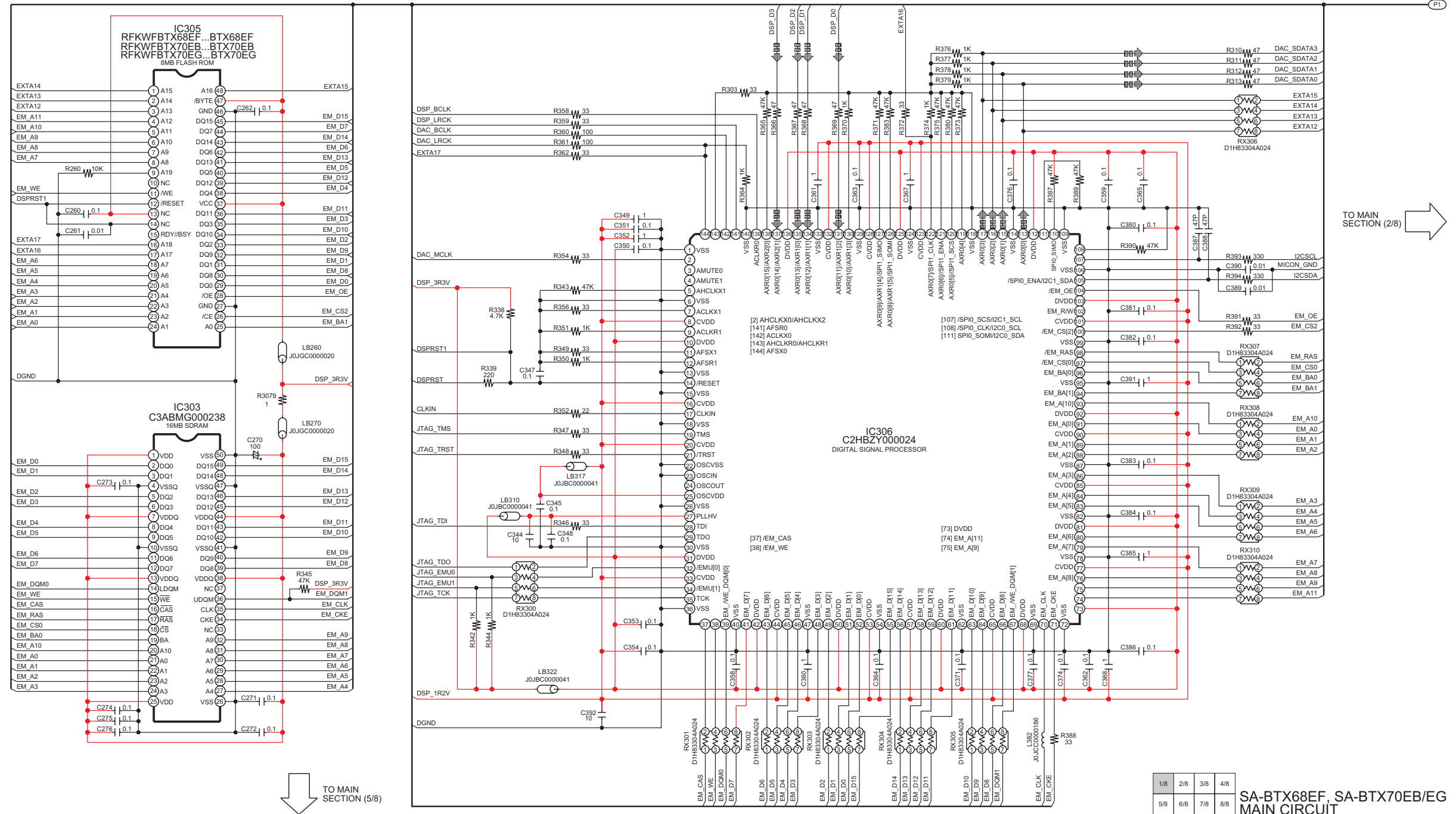
SA-BTX68EF, SA-BTX70EB/EG DIGITAL(DIGITAL NET) CIRCUIT



## 16.2. Main Circuit

SCHEMATIC DIAGRAM - 23

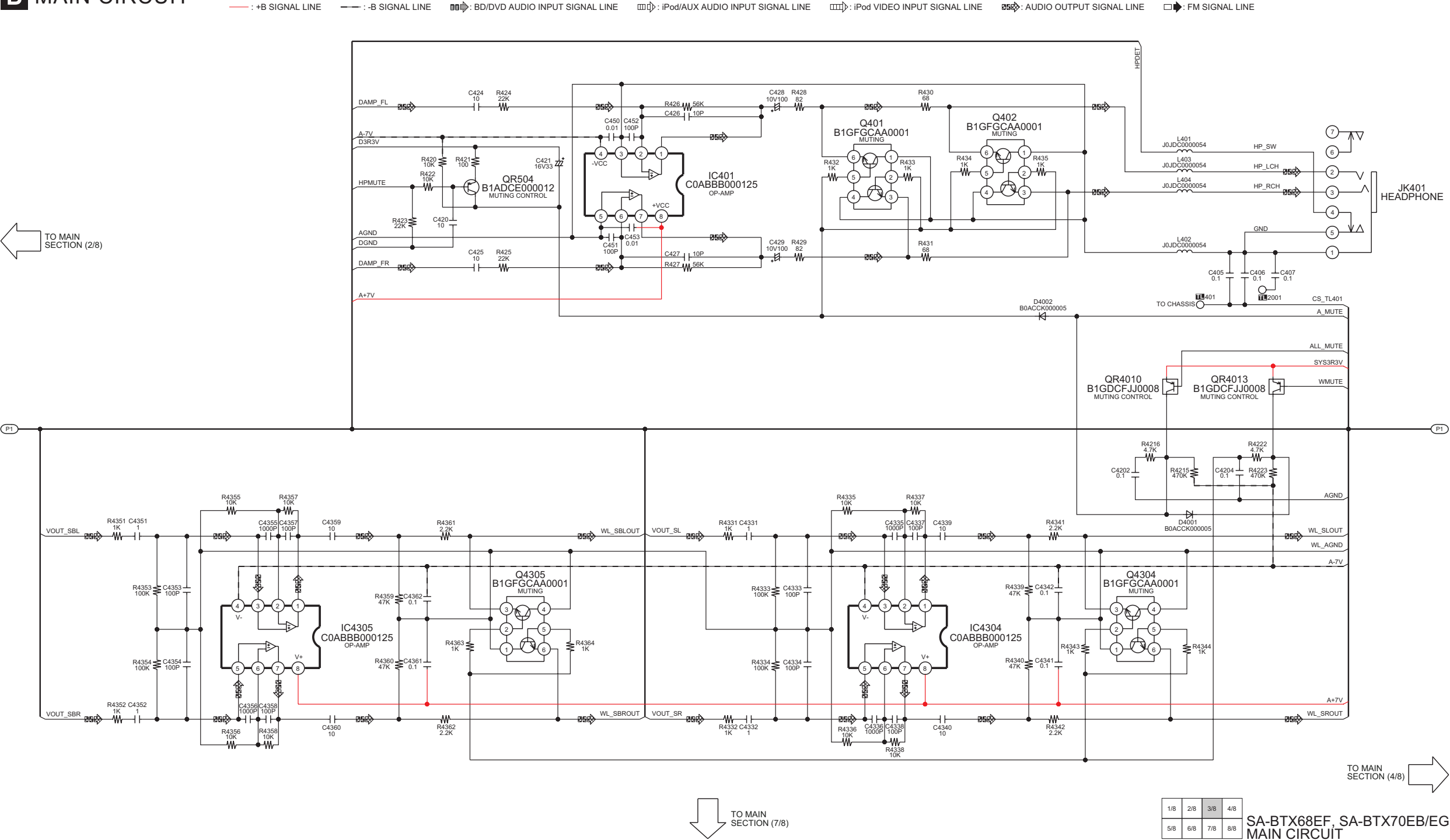
## B MAIN CIRCUIT





SCHEMATIC DIAGRAM - 25

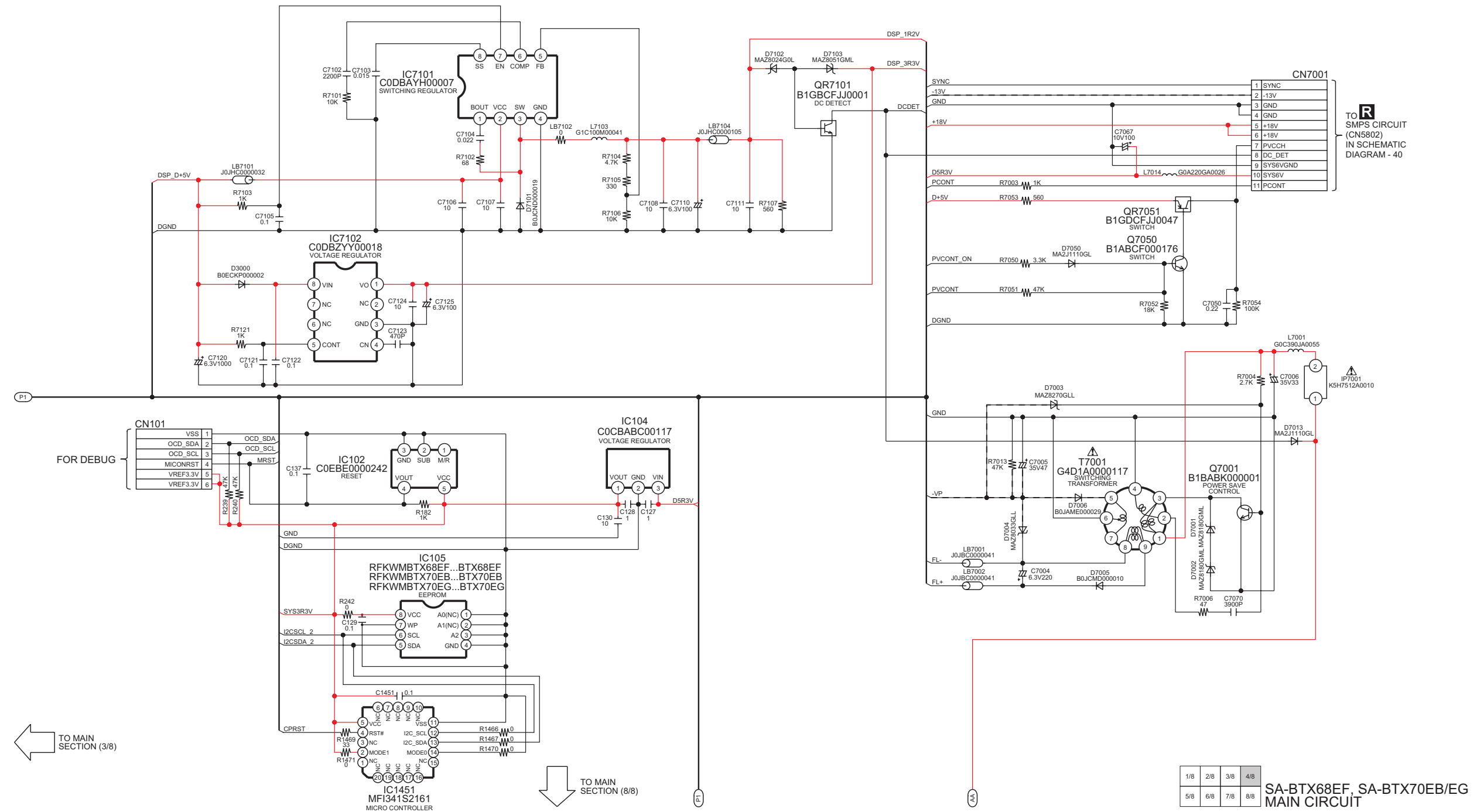
B MAIN CIRCUIT



# SCHEMATIC DIAGRAM - 26

## **B** MAIN CIRCUIT

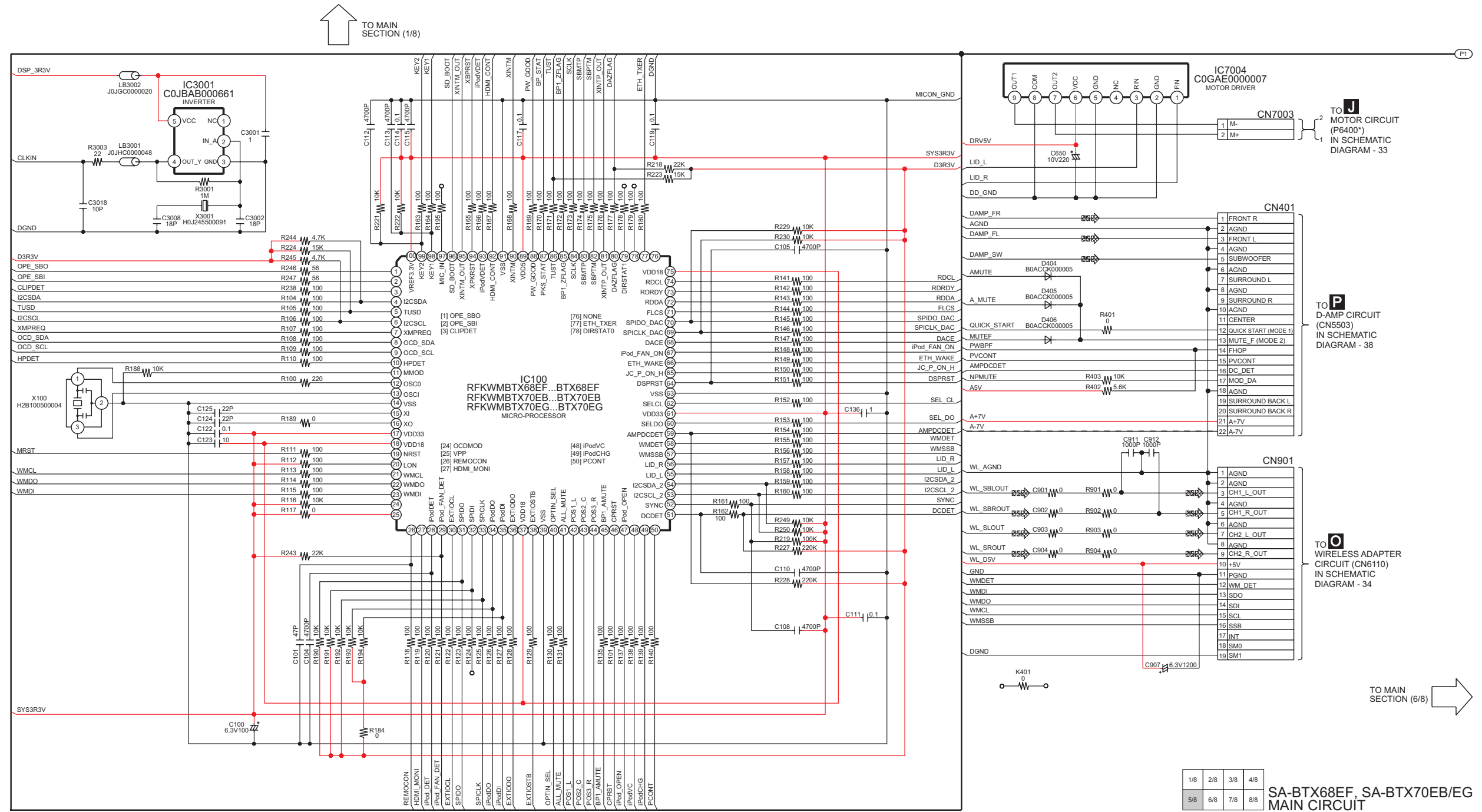
— : +B SIGNAL LINE    — : -B SIGNAL LINE    : BD/DVD AUDIO INPUT SIGNAL LINE    : iPod/AUX AUDIO INPUT SIGNAL LINE    : iPod VIDEO INPUT SIGNAL LINE    : AUDIO OUTPUT SIGNAL LINE    : FM SIGNAL LINE



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



## B MAIN CIRCUIT



## B MAIN CIRCUIT

↑ TO MAIN SECTION (3/8)



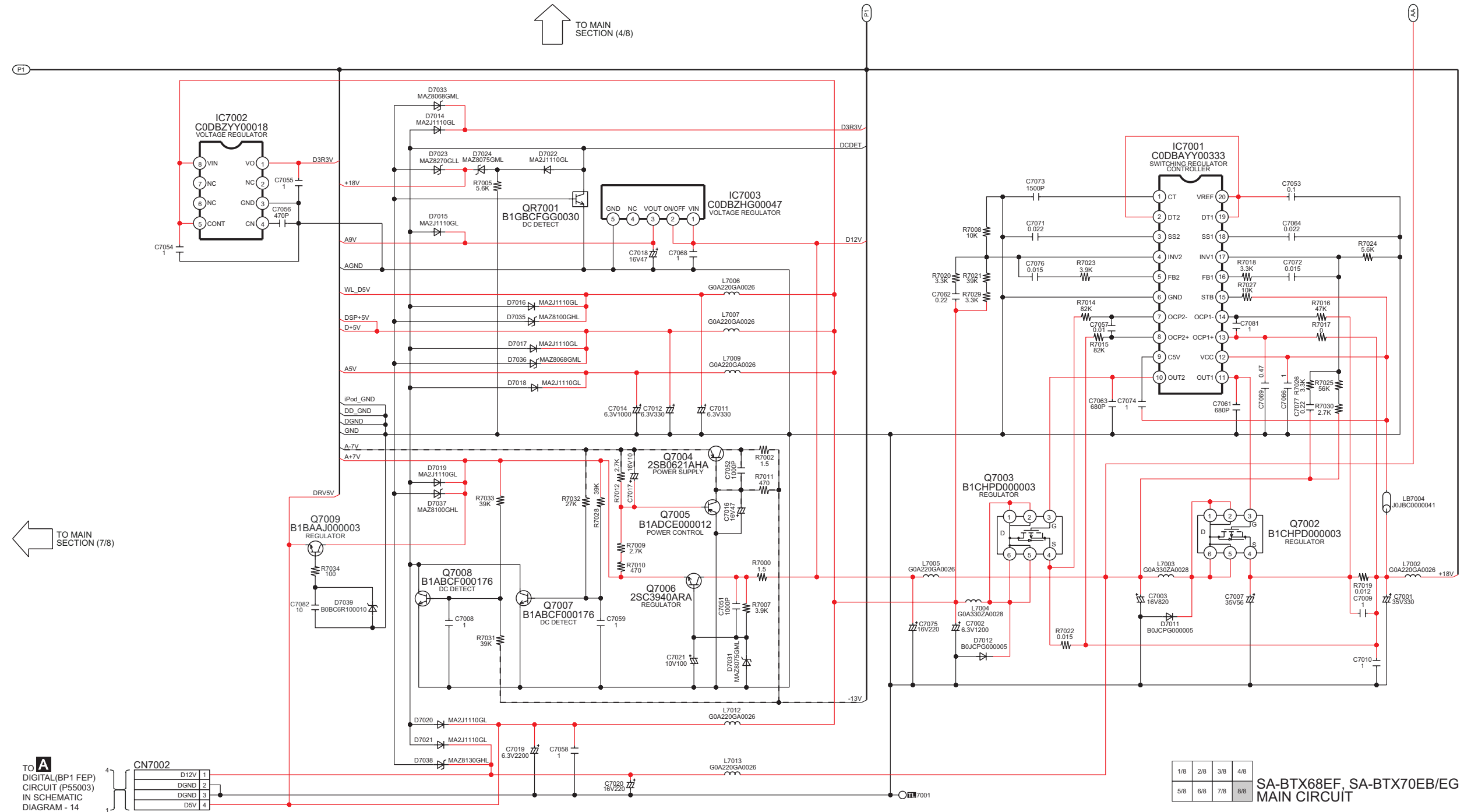
|     |     |     |     |
|-----|-----|-----|-----|
| 1/8 | 2/8 | 3/8 | 4/8 |
| 5/8 | 6/8 | 7/8 | 8/8 |

SA-BTX68EF, SA-BTX70EB/EG  
MAIN CIRCUIT

SCHEMATIC DIAGRAM - 30

**B** MAIN CIRCUIT

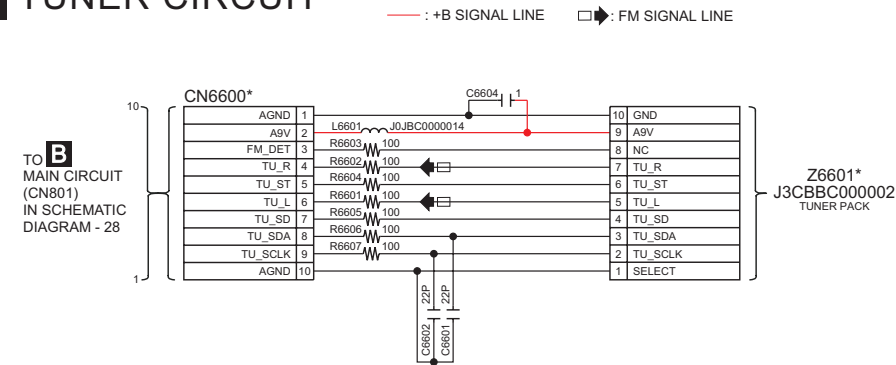
— : +B SIGNAL LINE    — : -B SIGNAL LINE    : BD/DVD AUDIO INPUT SIGNAL LINE    : iPod/AUX AUDIO INPUT SIGNAL LINE    : iPod VIDEO INPUT SIGNAL LINE    : AUDIO OUTPUT SIGNAL LINE    : FM SIGNAL LINE



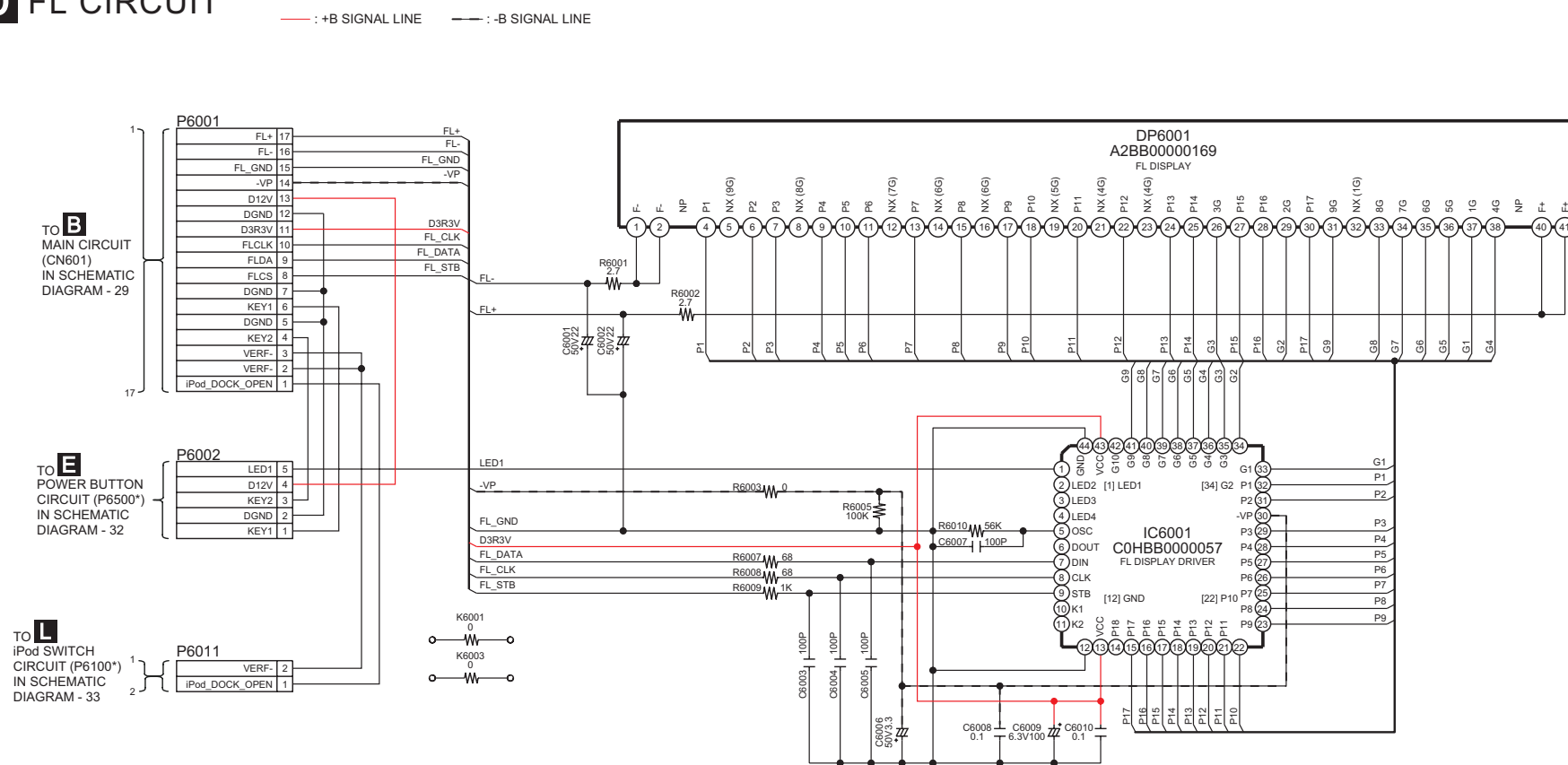
### 16.3. Tuner & FL Circuit

SCHEMATIC DIAGRAM - 31

## C TUNER CIRCUIT

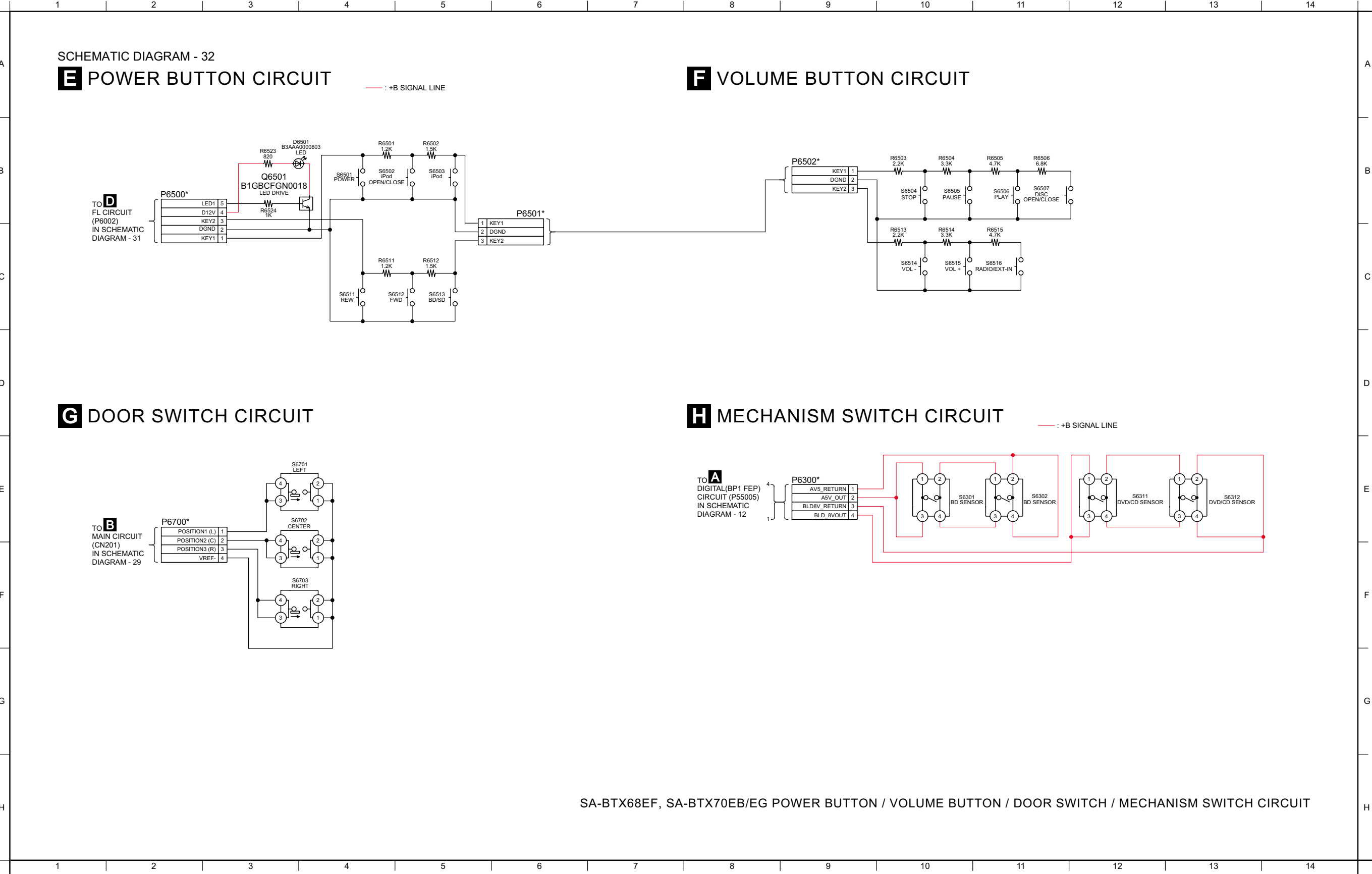


## D FL CIRCUIT



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

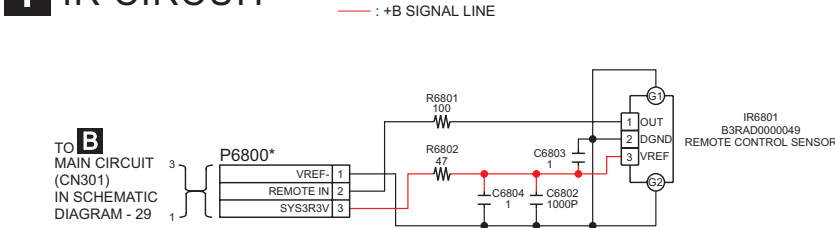
16.4. Power Button, Volume Button, Door Switch & Mechanism Switch Circuit



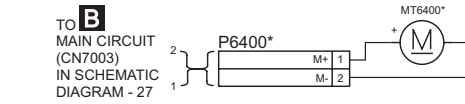
16.5. IR, Motor, SD USB & iPod Switch Circuit

SCHEMATIC DIAGRAM - 33

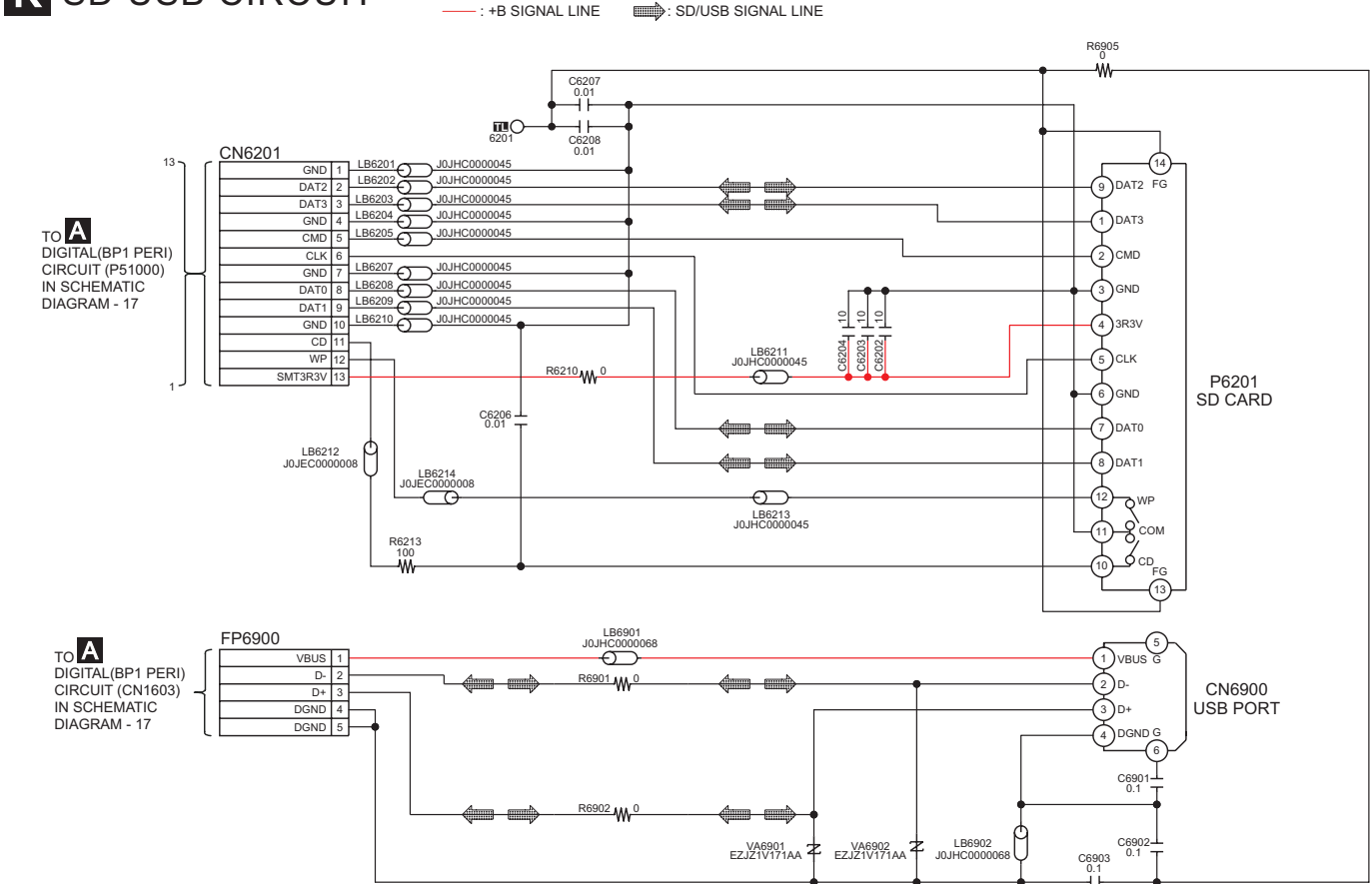
**I** IR CIRCUIT



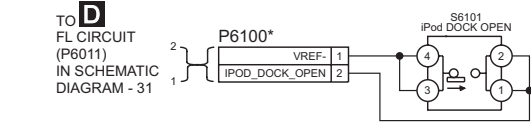
**J** MOTOR CIRCUIT



**K** SD USB CIRCUIT

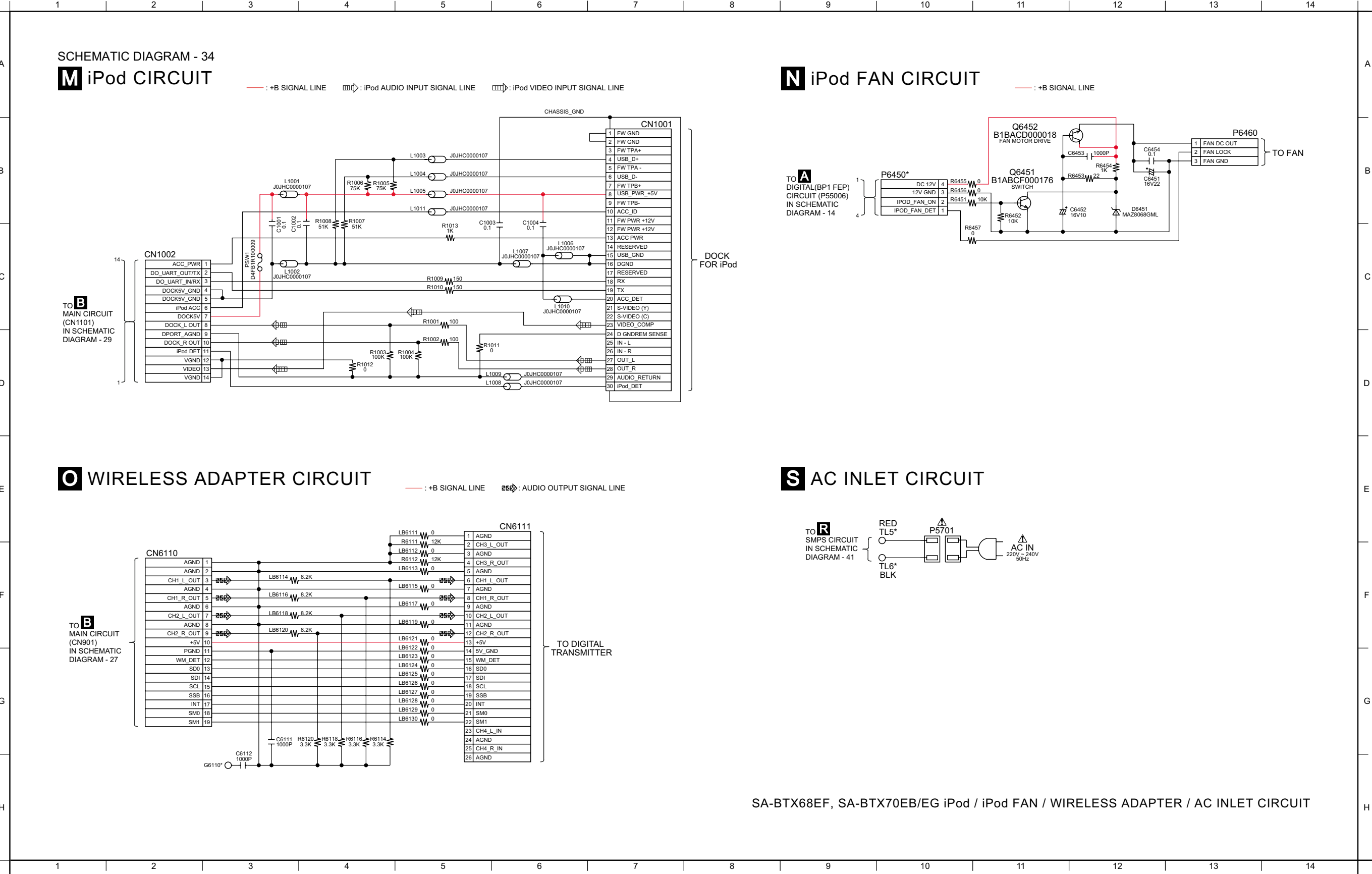


**L** iPod SWITCH CIRCUIT



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

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



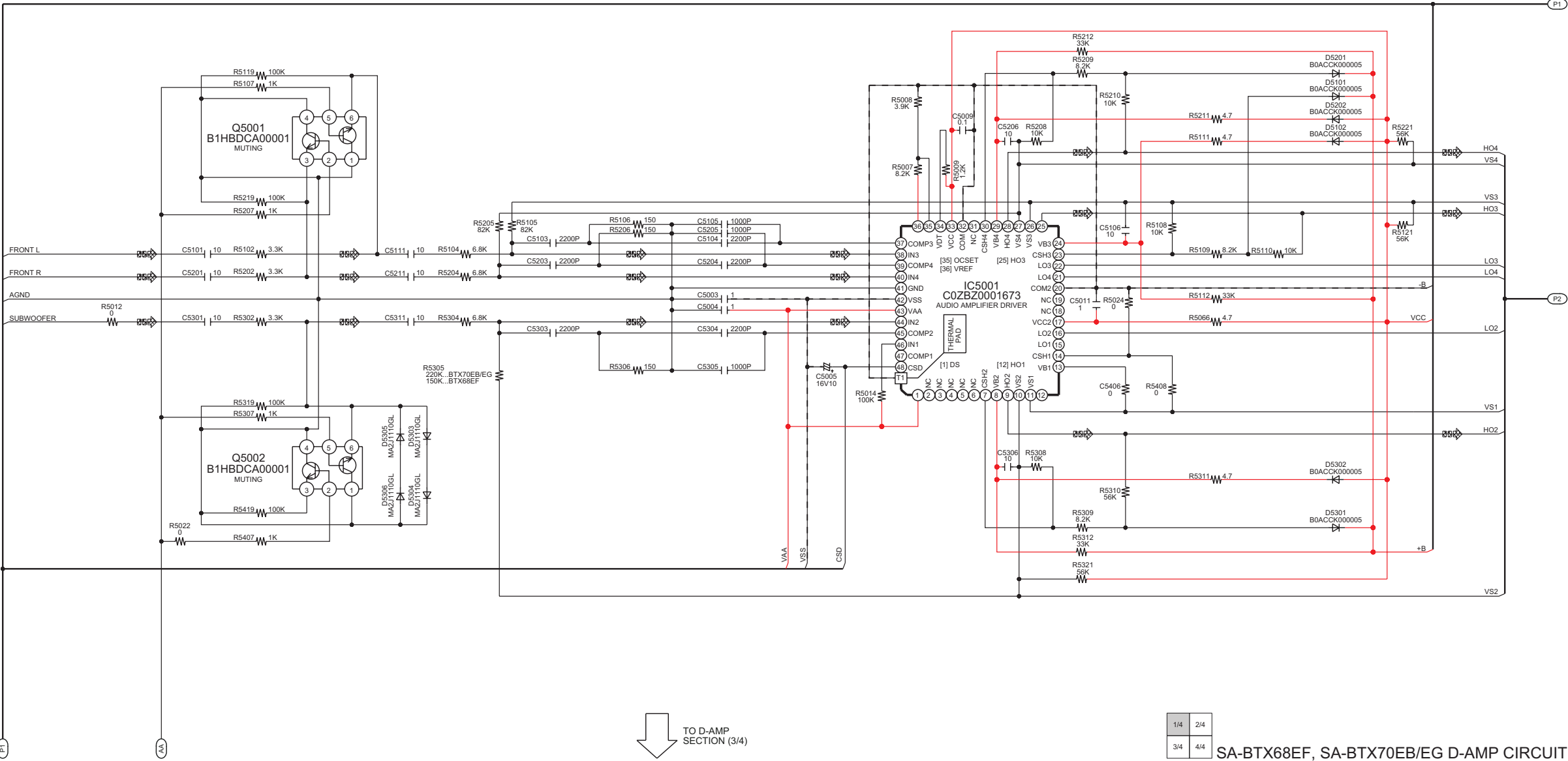
16.7. D-Amp Circuit

SCHEMATIC DIAGRAM - 35

**P** D-AMP CIRCUIT

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

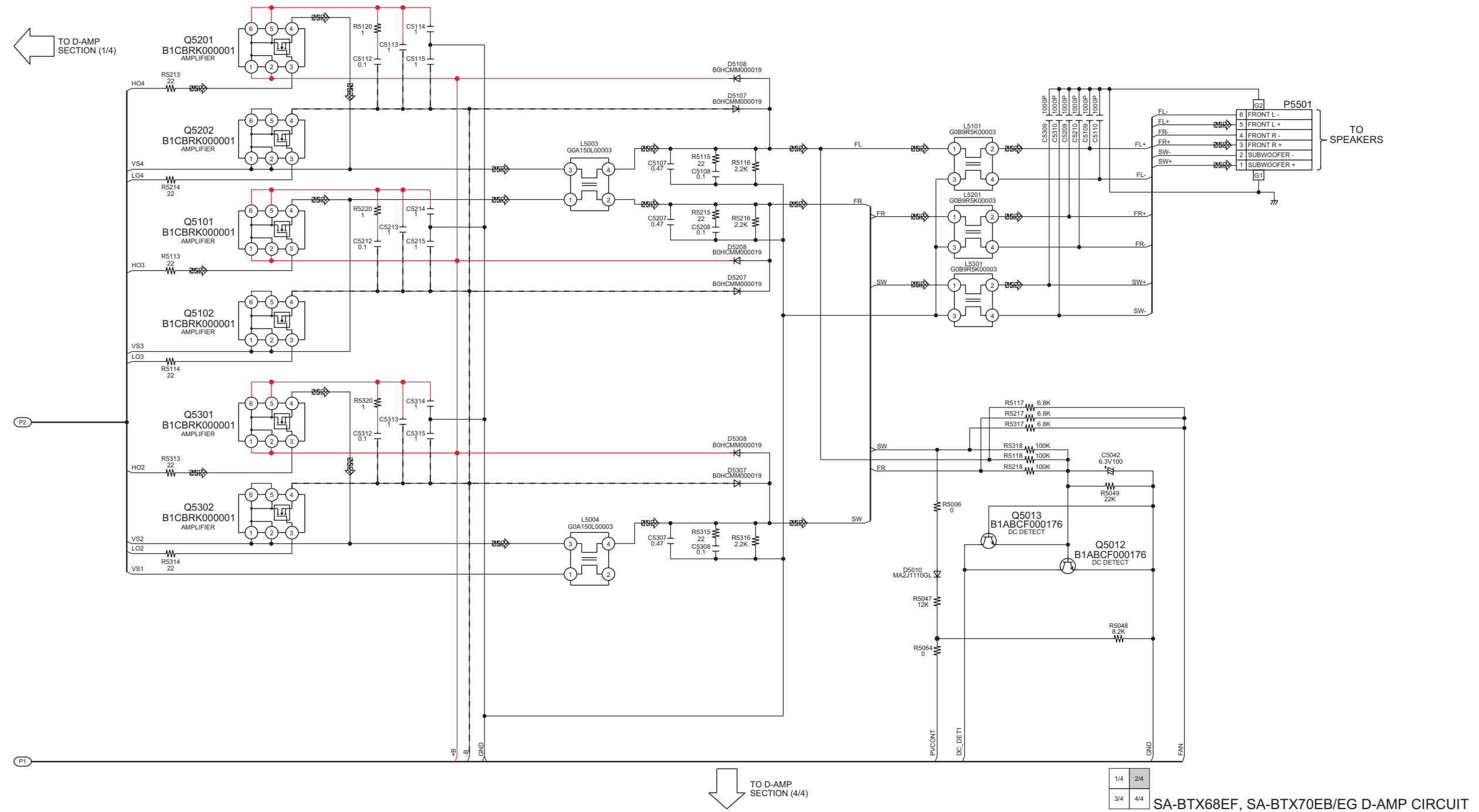
TO D-AMP SECTION (2/4) 



# SCHEMATIC DIAGRAM - 36

## **P** D-AMP CIRCUIT

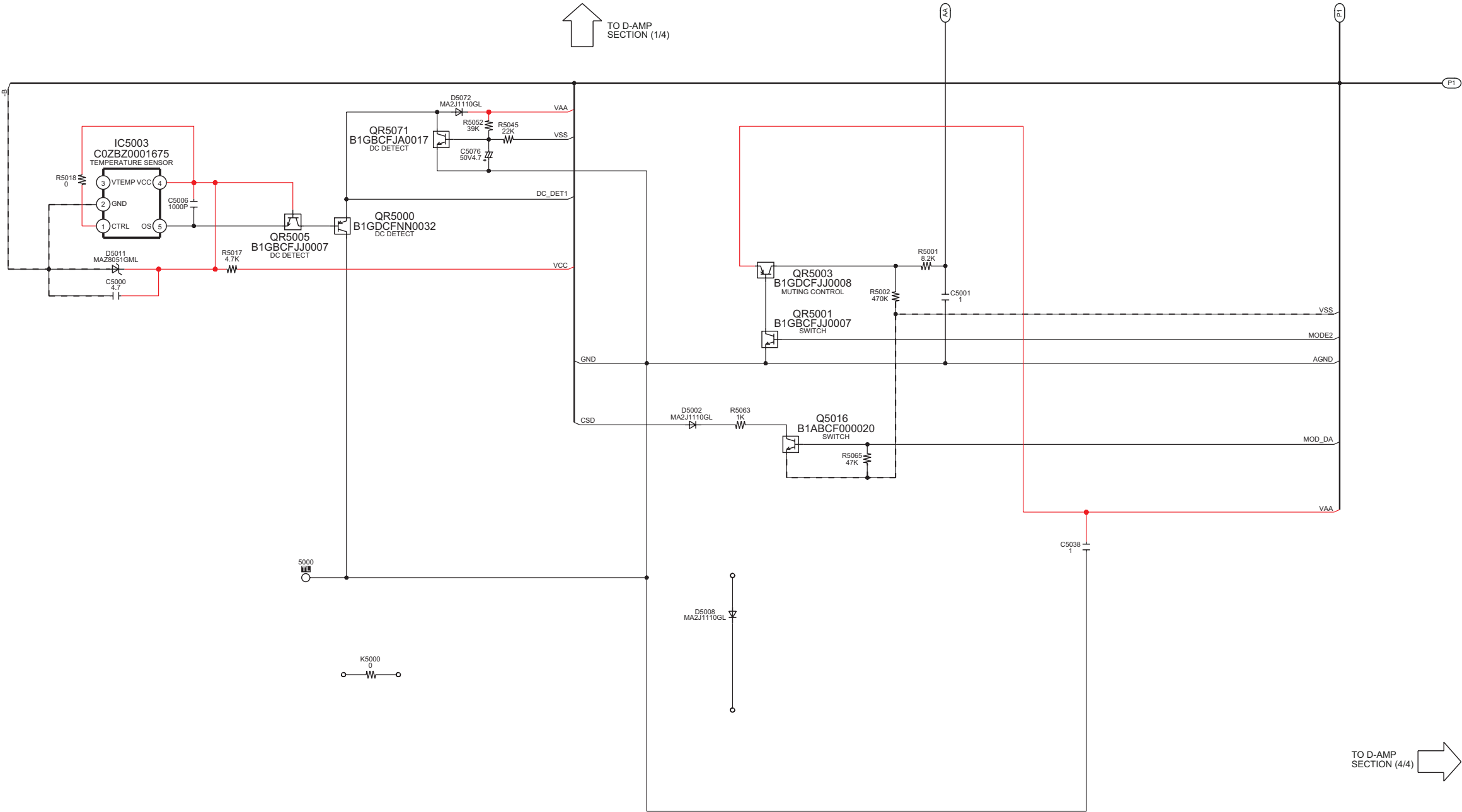
— : +B SIGNAL LINE    - - - : -B SIGNAL LINE     : AUDIO OUTPUT SIGNAL LINE



SCHEMATIC DIAGRAM - 37

**P** D-AMP CIRCUIT

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

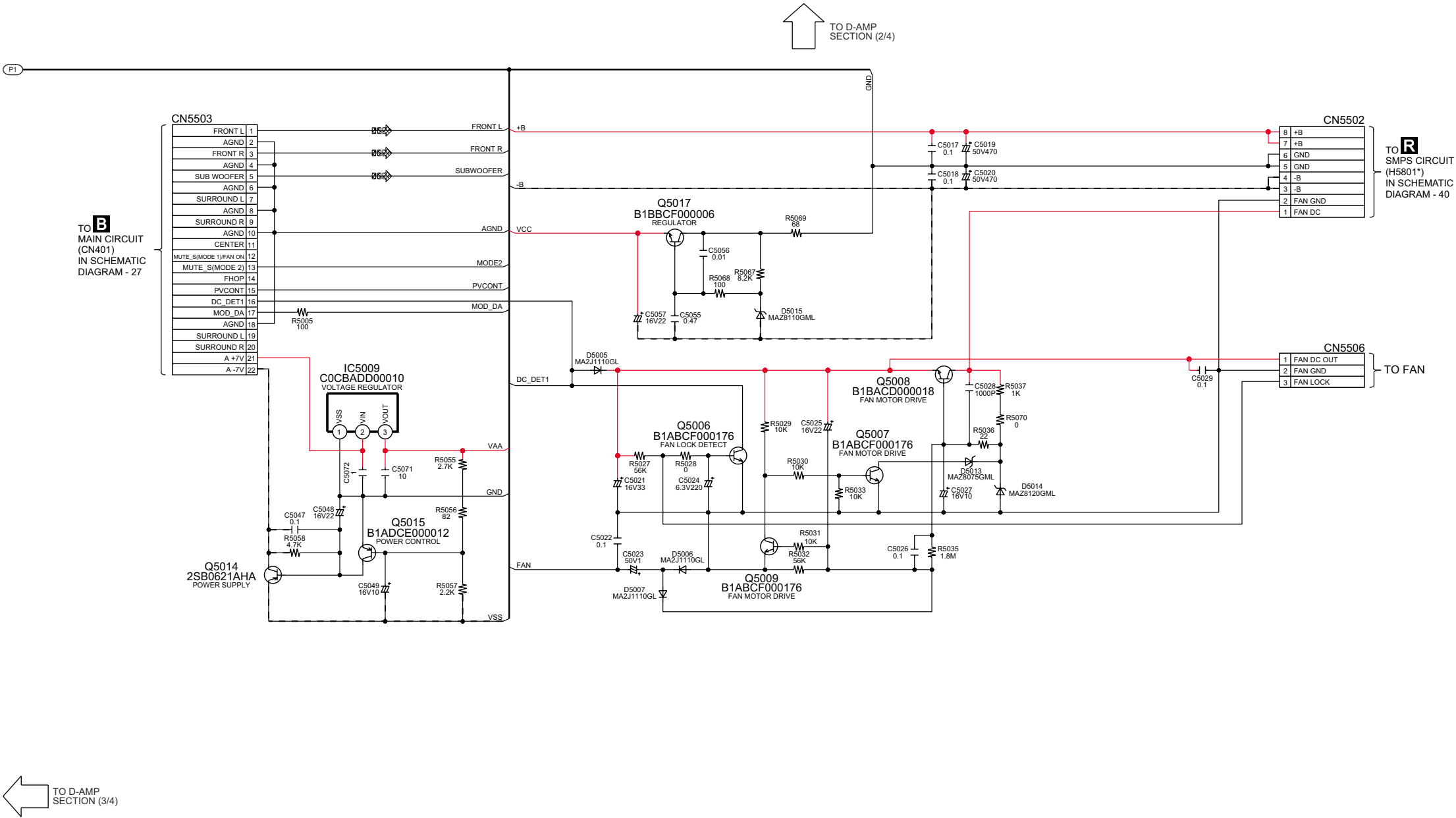


|     |     |
|-----|-----|
| 1/4 | 2/4 |
| 3/4 | 4/4 |

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

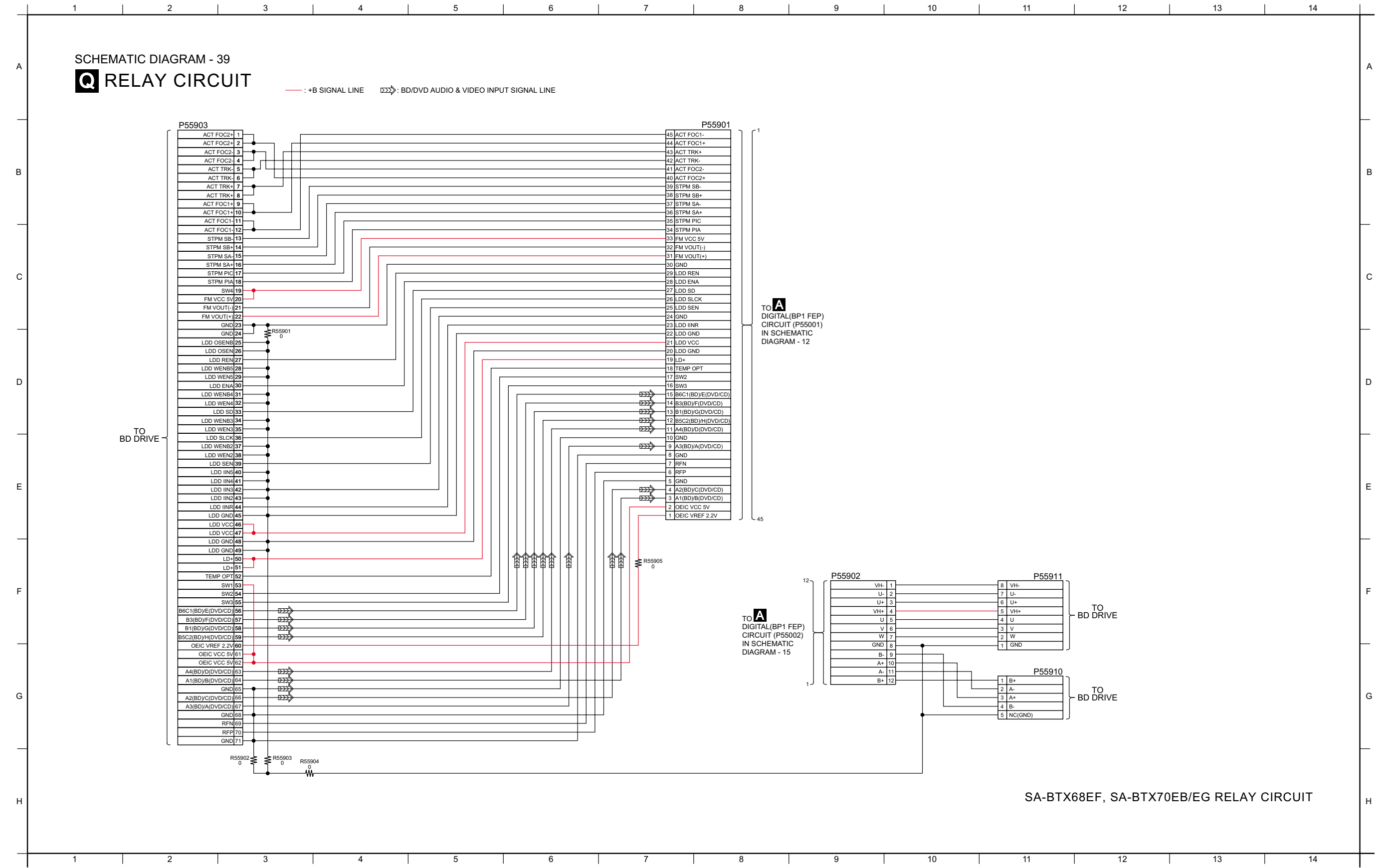
SCHEMATIC DIAGRAM - 38  
**P** D-AMP CIRCUIT

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

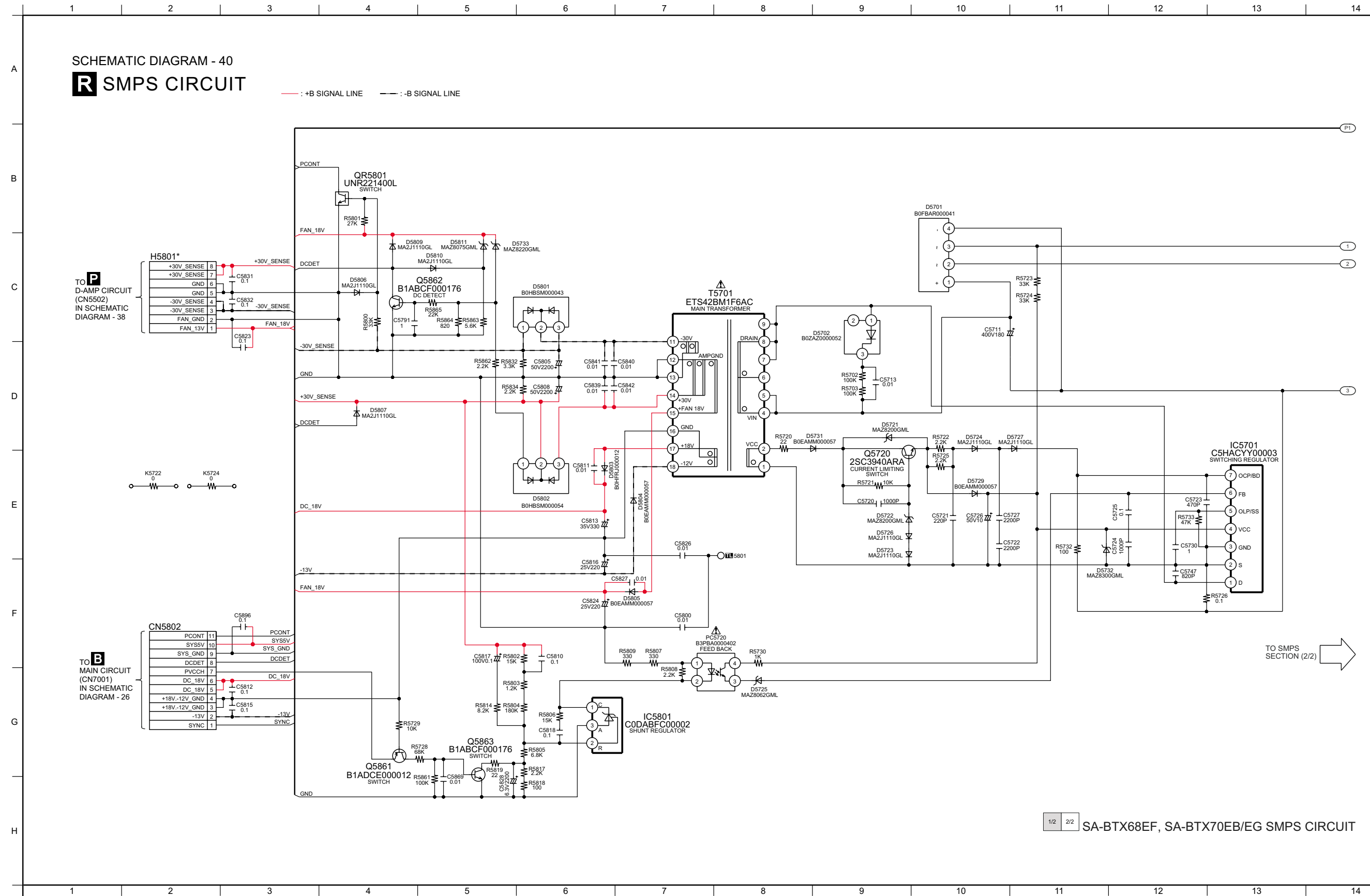


1/4 2/4  
3/4 4/4  
SA-BTX68EF, SA-BTX70EB/EG D-AMP CIRCUIT

16.8. Relay Circuit



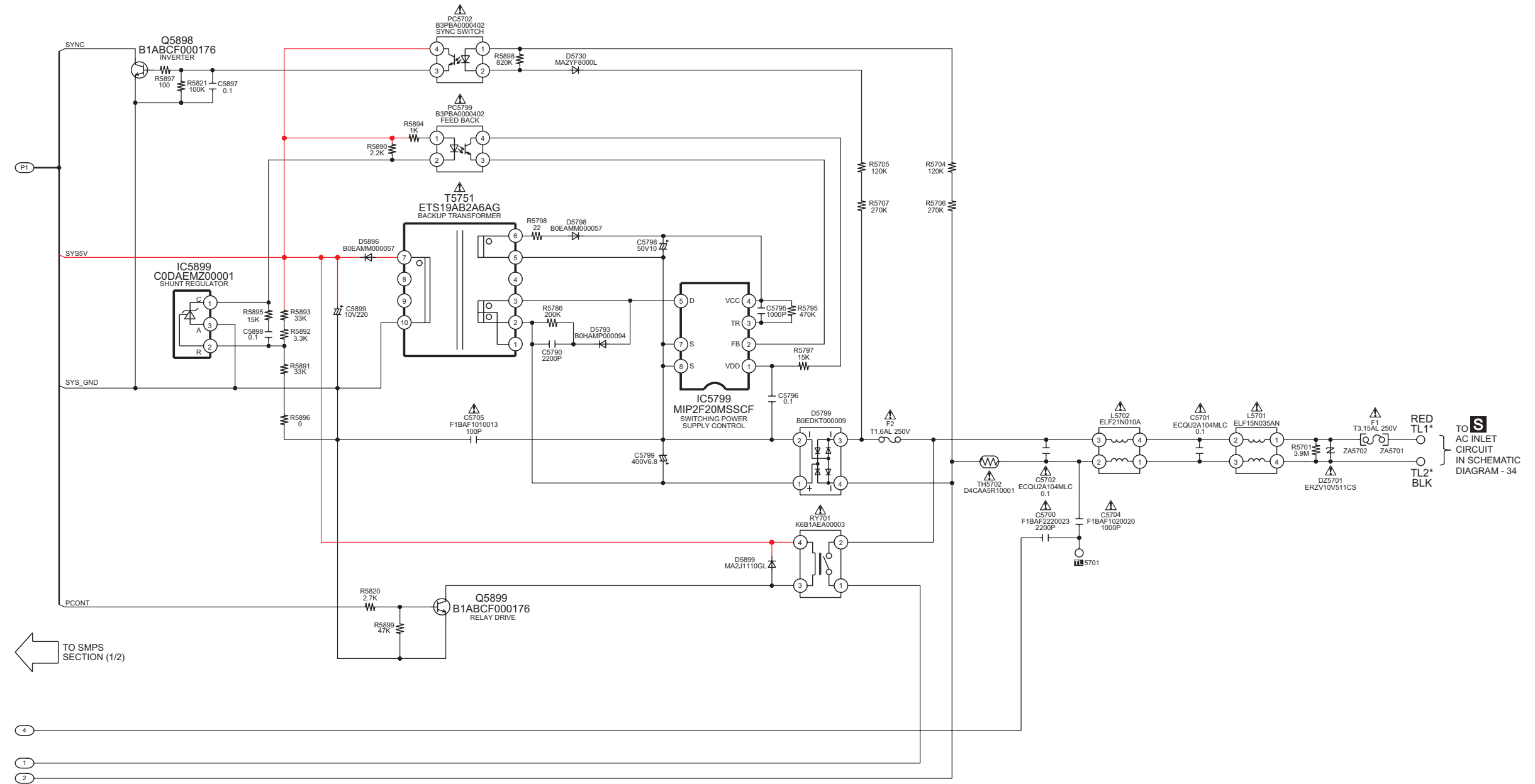
## 16.9. SMPS Circuit



SCHEMATIC DIAGRAM - 41

**R** SMPS CIRCUIT

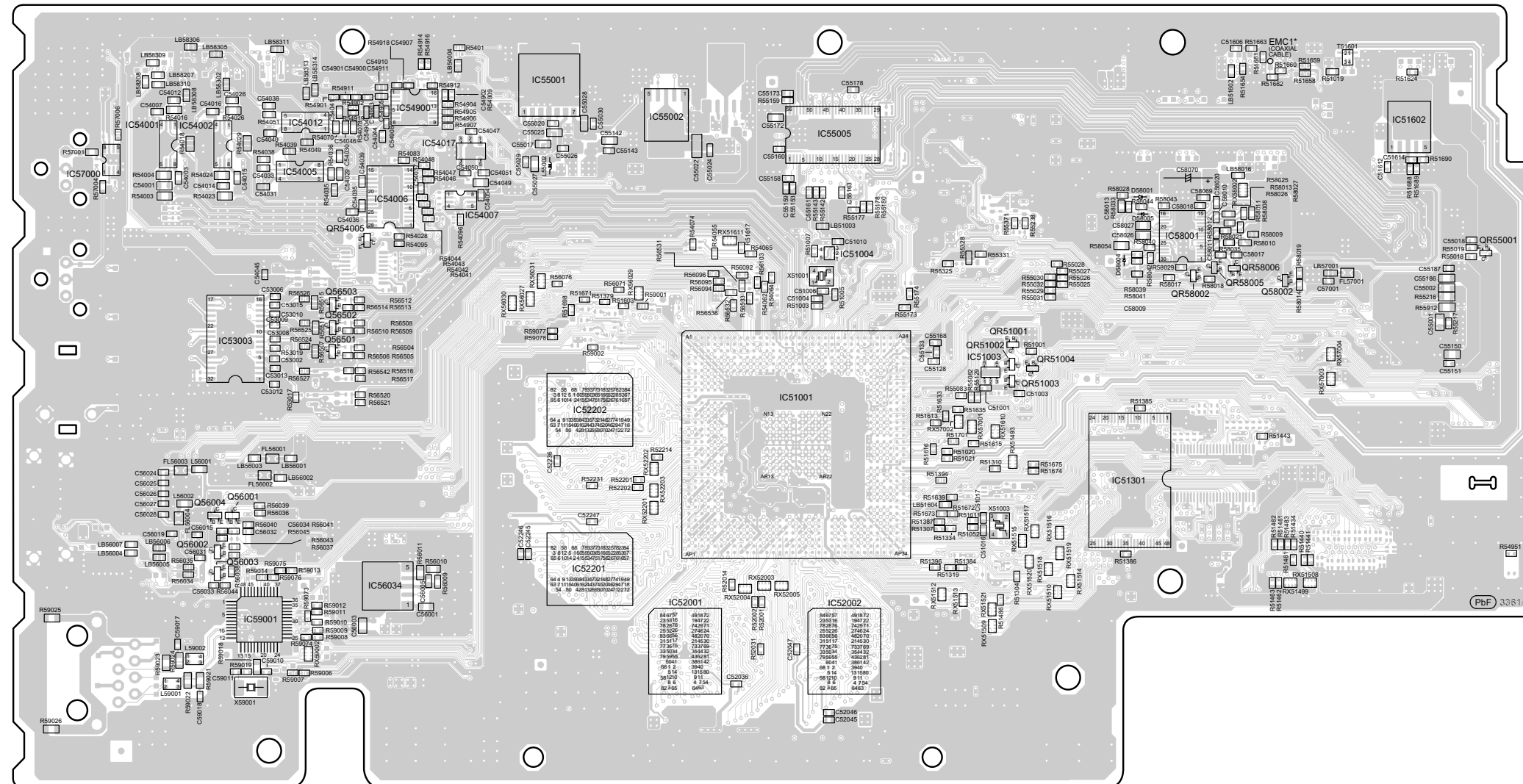
— : +B SIGNAL LINE — : -B SIGNAL LINE



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

## 17.1. Digital P.C.B.

**A** DIGITAL P.C.B. (RFKB4520A)

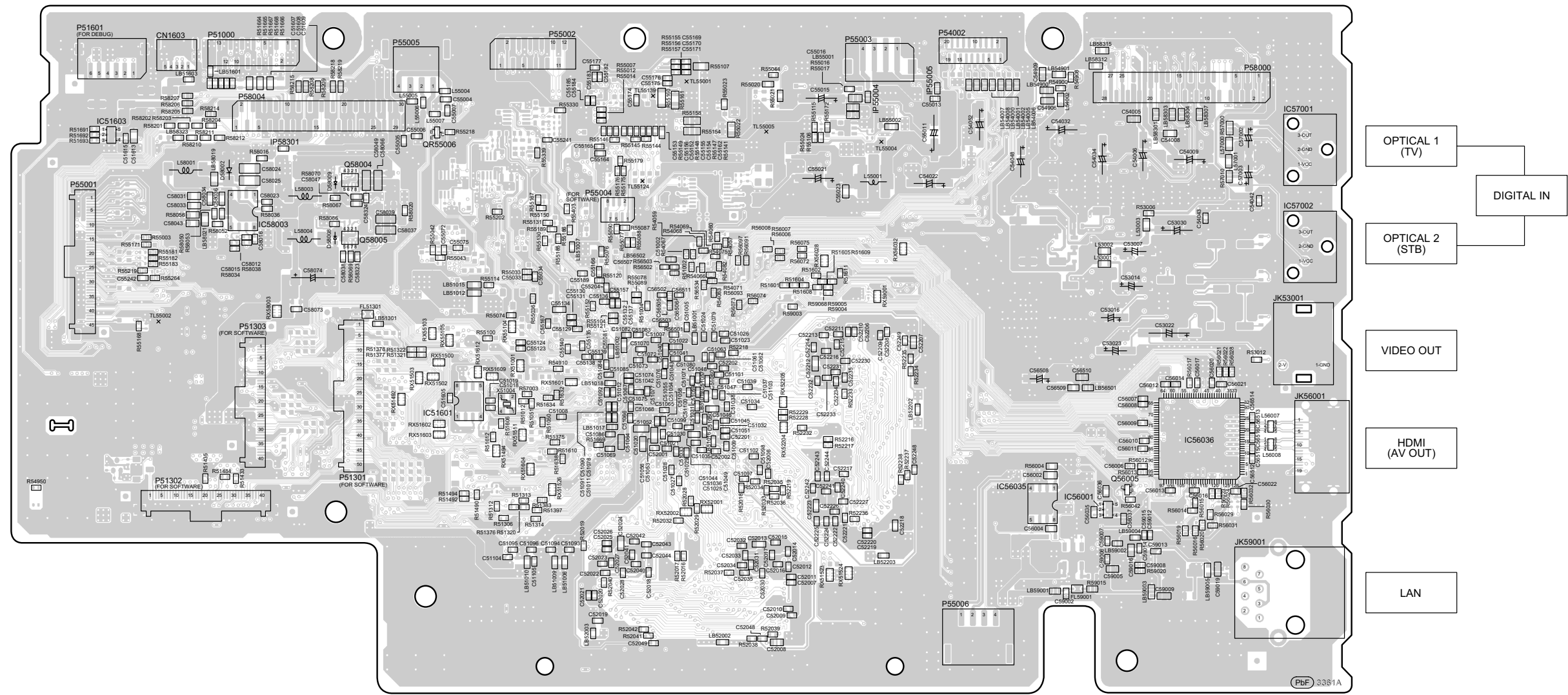


(SIDE A)

NOTE: " \* " REF IS FOR INDICATION ONLY.

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

**A** DIGITAL P.C.B. (RFKB4520A)

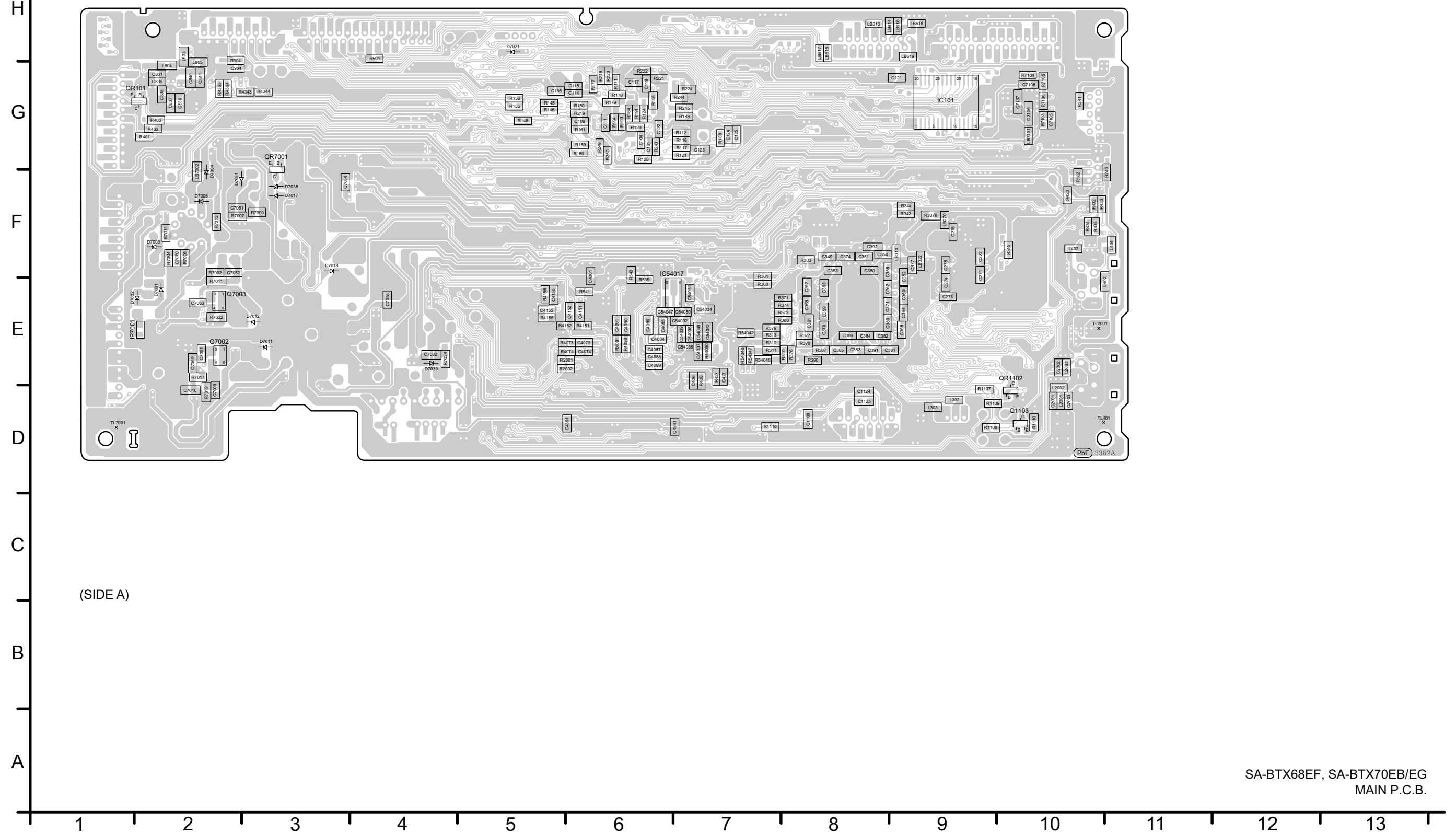


(SIDE B)

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

## 17.2. Main P.C.B.

**B** MAIN P.C.B. (RFKB4521A)

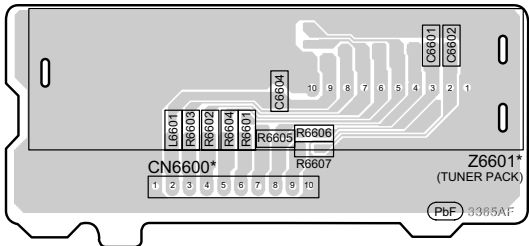


A vertical number line with tick marks labeled A, B, C, D, E, F, G, and H from bottom to top.

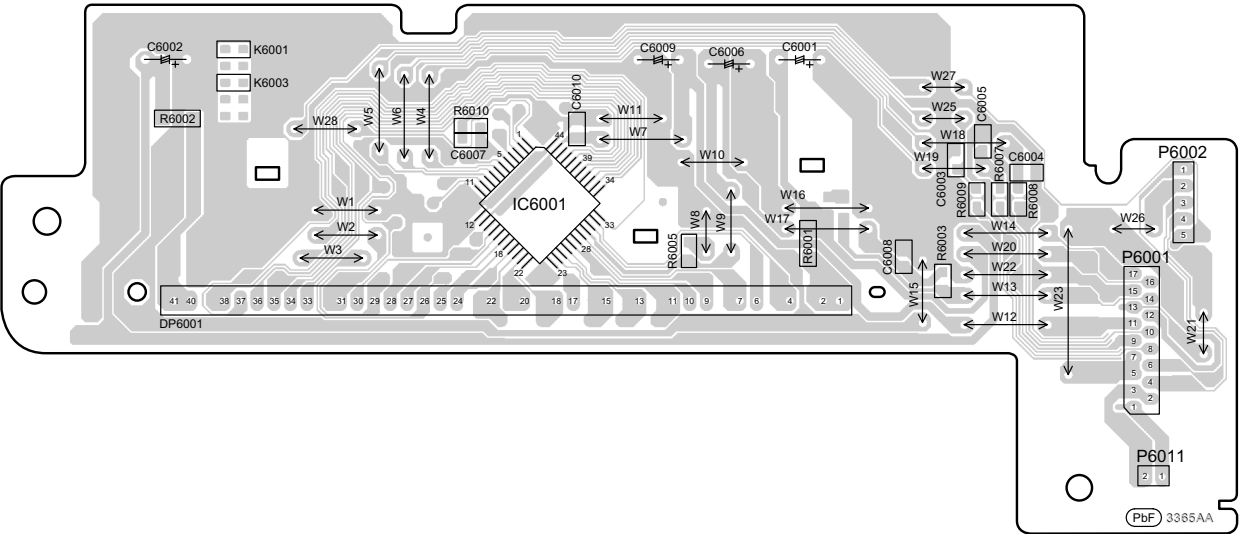


17.3. Tuner, FL, Power Button, Volume Button & Door Switch P.C.B.

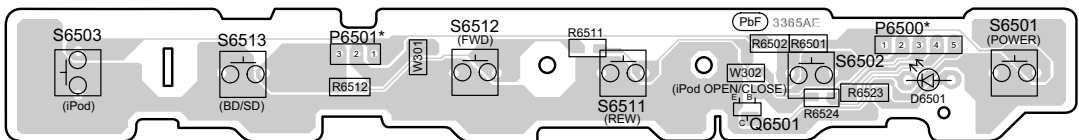
**C** TUNER P.C.B. (REP4524A)



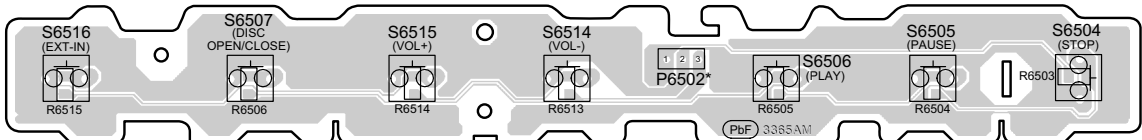
**D** FL P.C.B. (REP4524A)



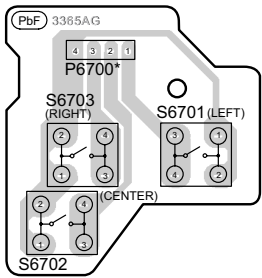
**E** POWER BUTTON P.C.B. (REP4524A)



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

A horizontal number line with tick marks at every integer from 1 to 13. The numbers 1 through 13 are labeled below the line.

(iPod  
DOCK OPEN)

S6101

PbF 3365AJ

2 1

P6100\*

SA-BTX68EF, SA-BTX70EB/EG  
MECHANISM SWITCH / IR / MOTOR / SD USB / iPod SWITCH / iPod P.C.B.



## H

**G**



F



2

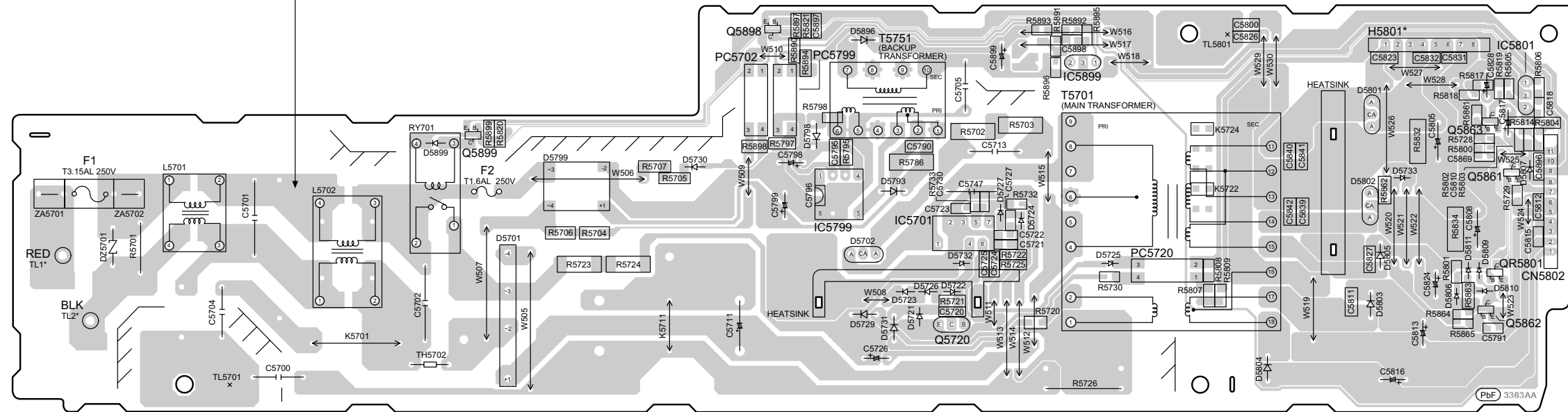
A

A horizontal number line with tick marks at every integer from 1 to 13. The numbers 1 through 13 are labeled below the line.

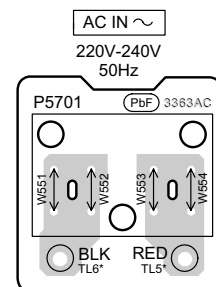
A  
B  
C  
D  
E  
F  
G  
H



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



**S**



NOTE: " \* " REF IS FOR INDICATION ONLY.

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

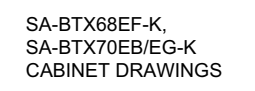
# 18 Terminal Function of ICs

## 18.1. IC6001 (C0HBB0000057): IC FL Driver

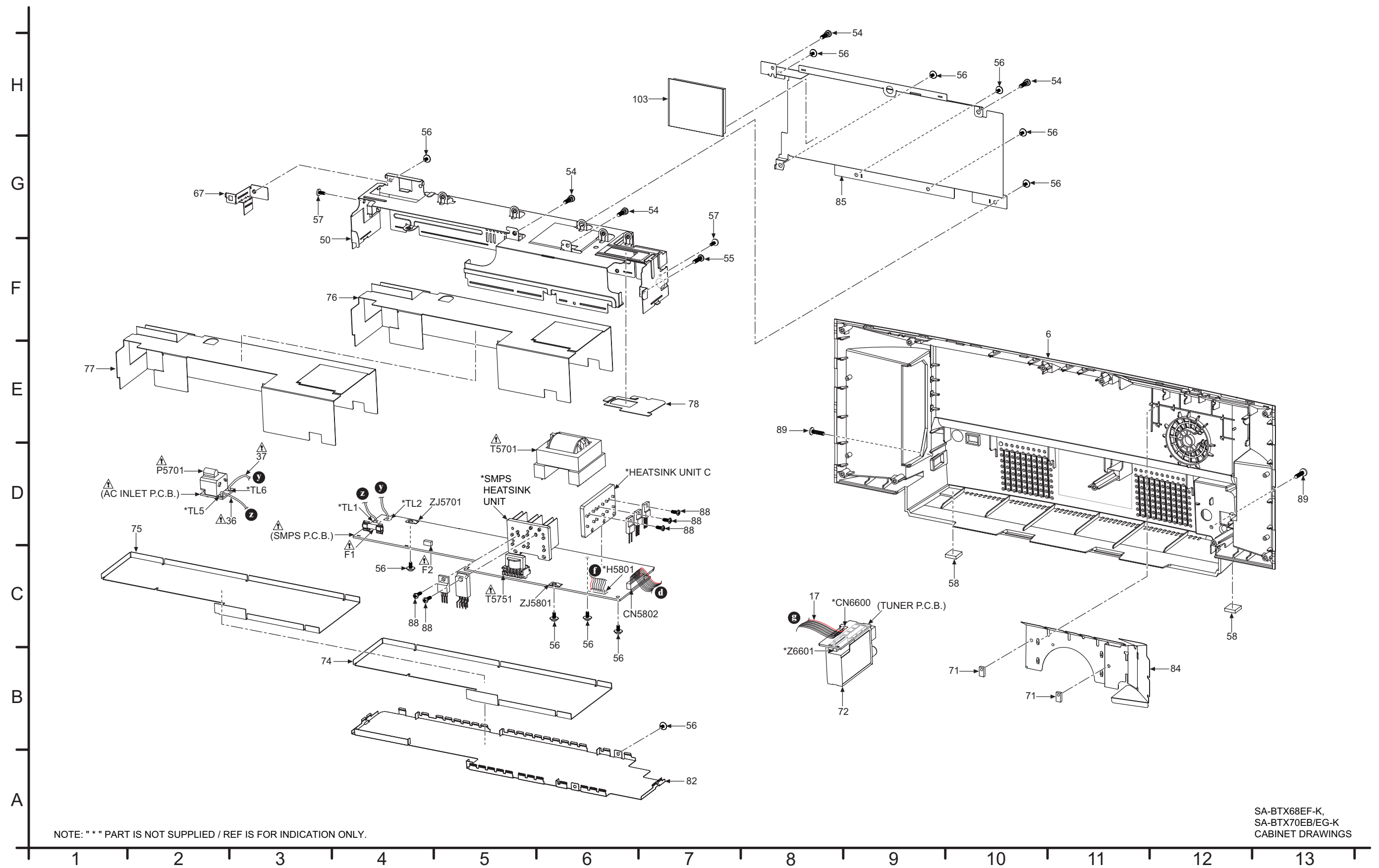
| Pin No. | Terminal Name | I/O | Function                |
|---------|---------------|-----|-------------------------|
| 1       | NC            | O   | No Connection           |
| 2       | NC            | -   | No Connection           |
| 3       | NC            | -   | No Connection           |
| 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                     |



### 19.1.1. Cabinet Parts Location

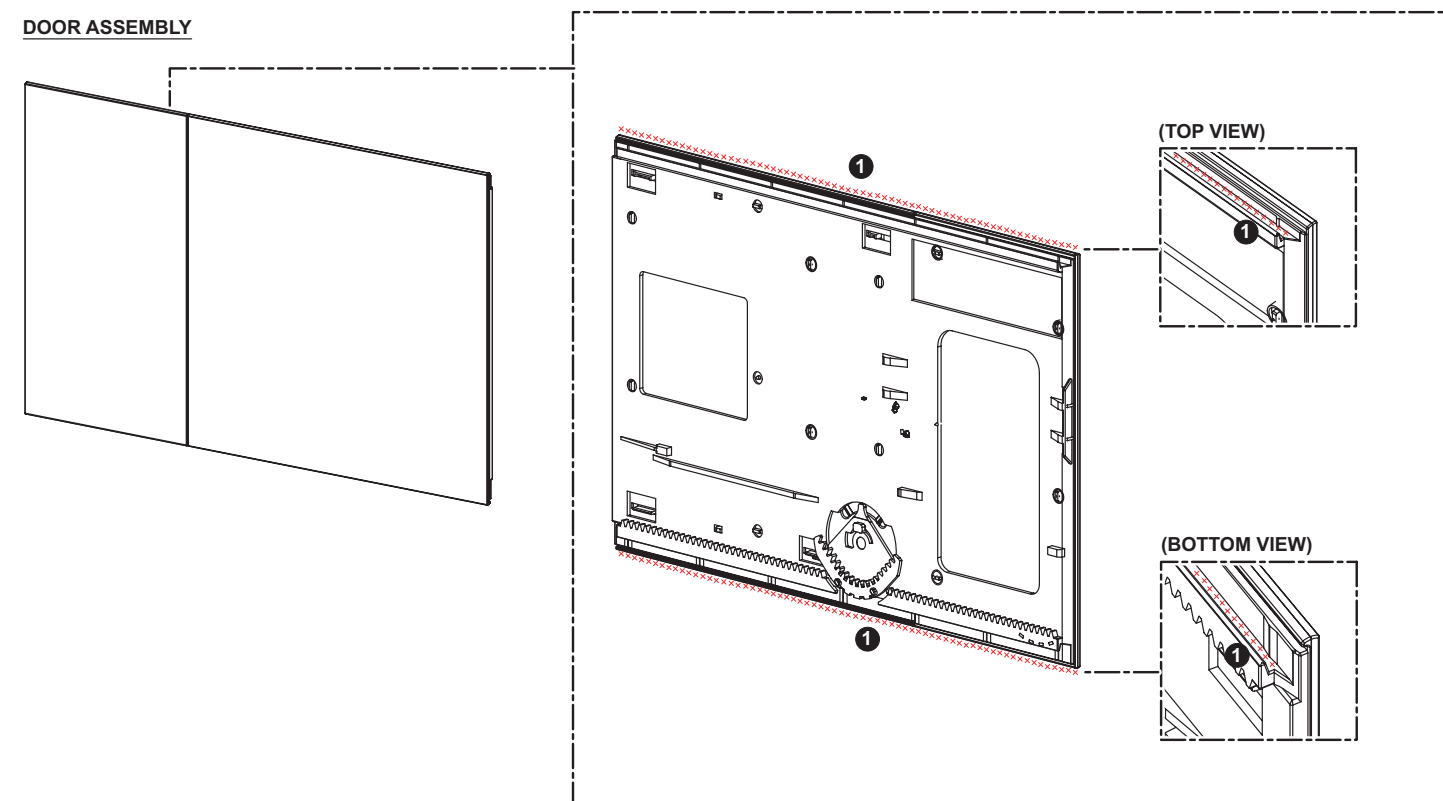
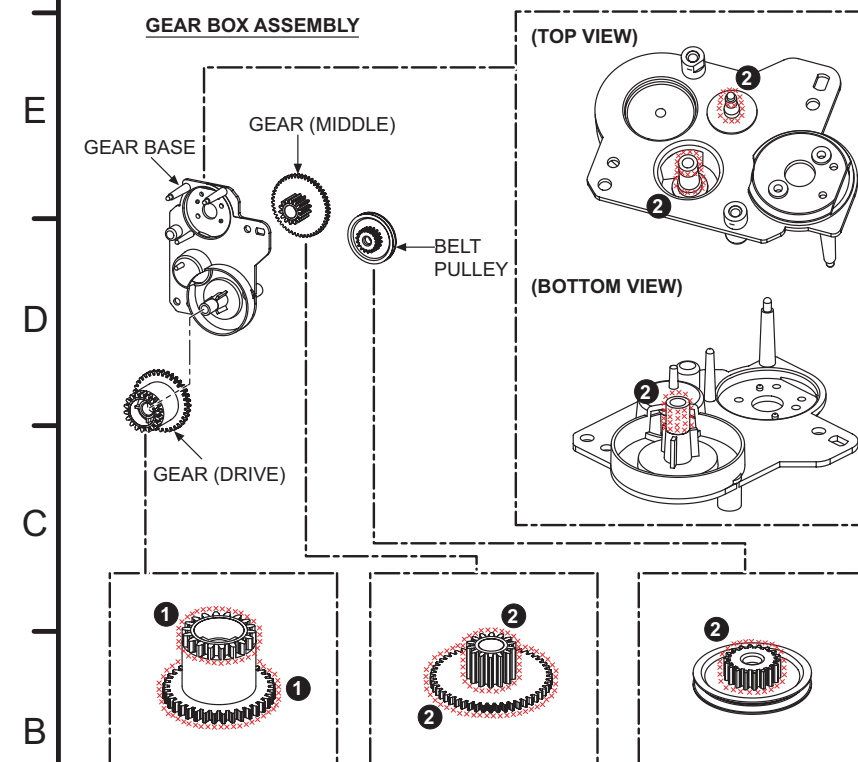
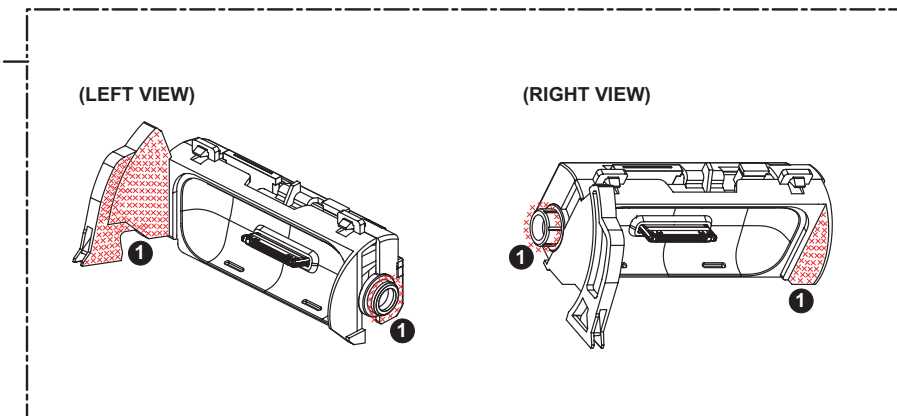
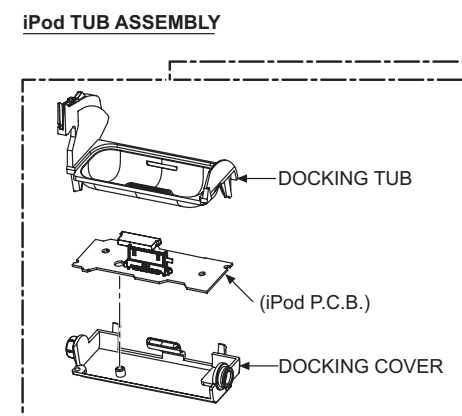
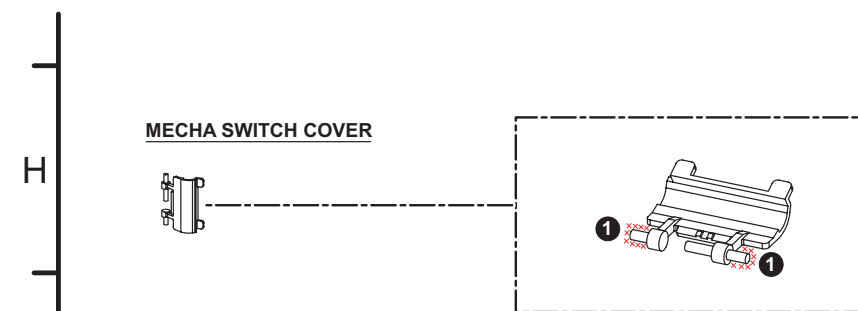






SA-BTX68EF-K,  
SA-BTX70EB/EG-K  
CABINET DRAWINGS

### 19.1.2. Grease

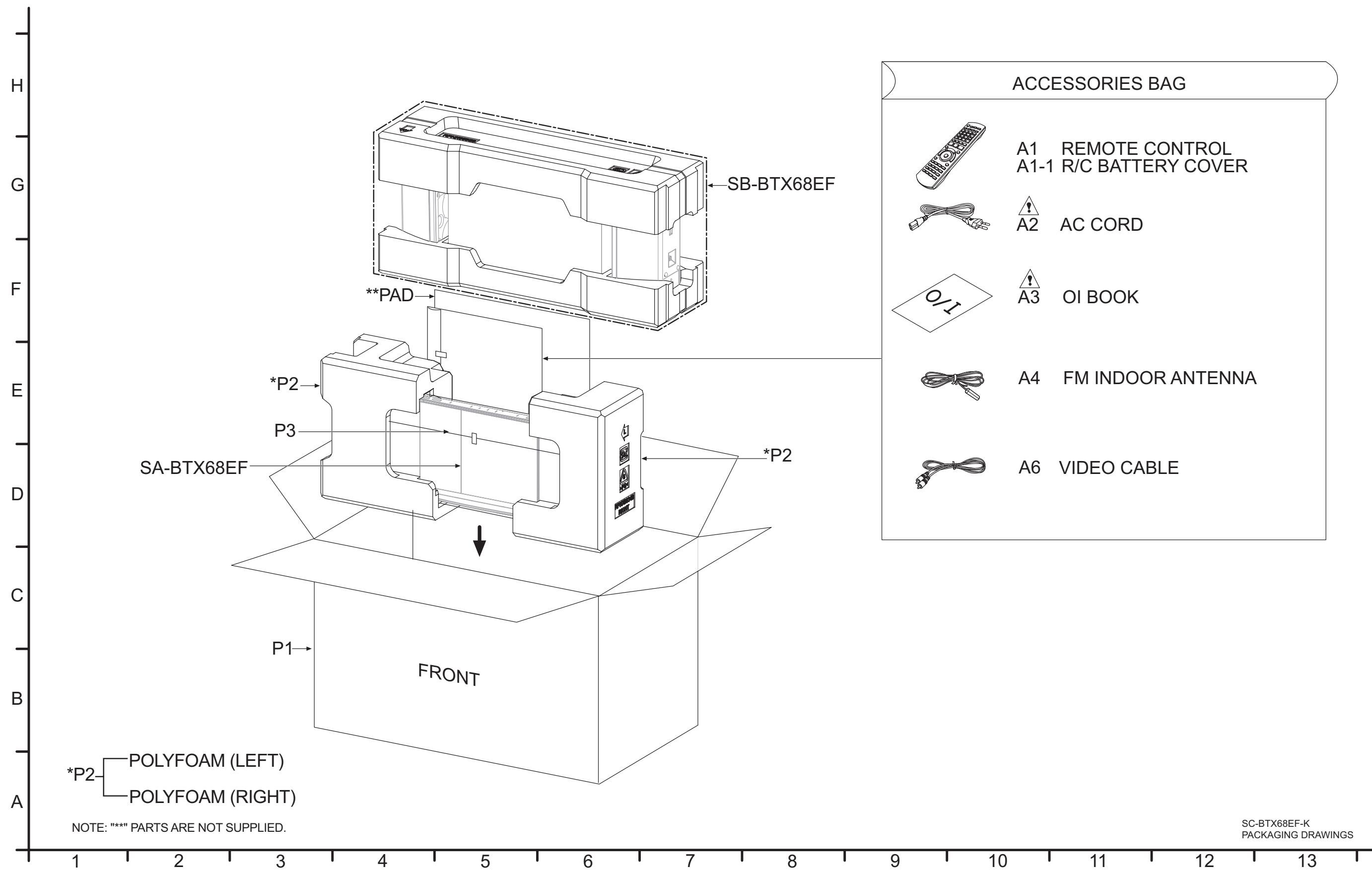


NOTE:  
WHEN CHANGING LOADING MECHANISM PARTS,  
APPLY SPECIFIED GREASE TO AREAS MARKED "XXX" AS SHOWN.

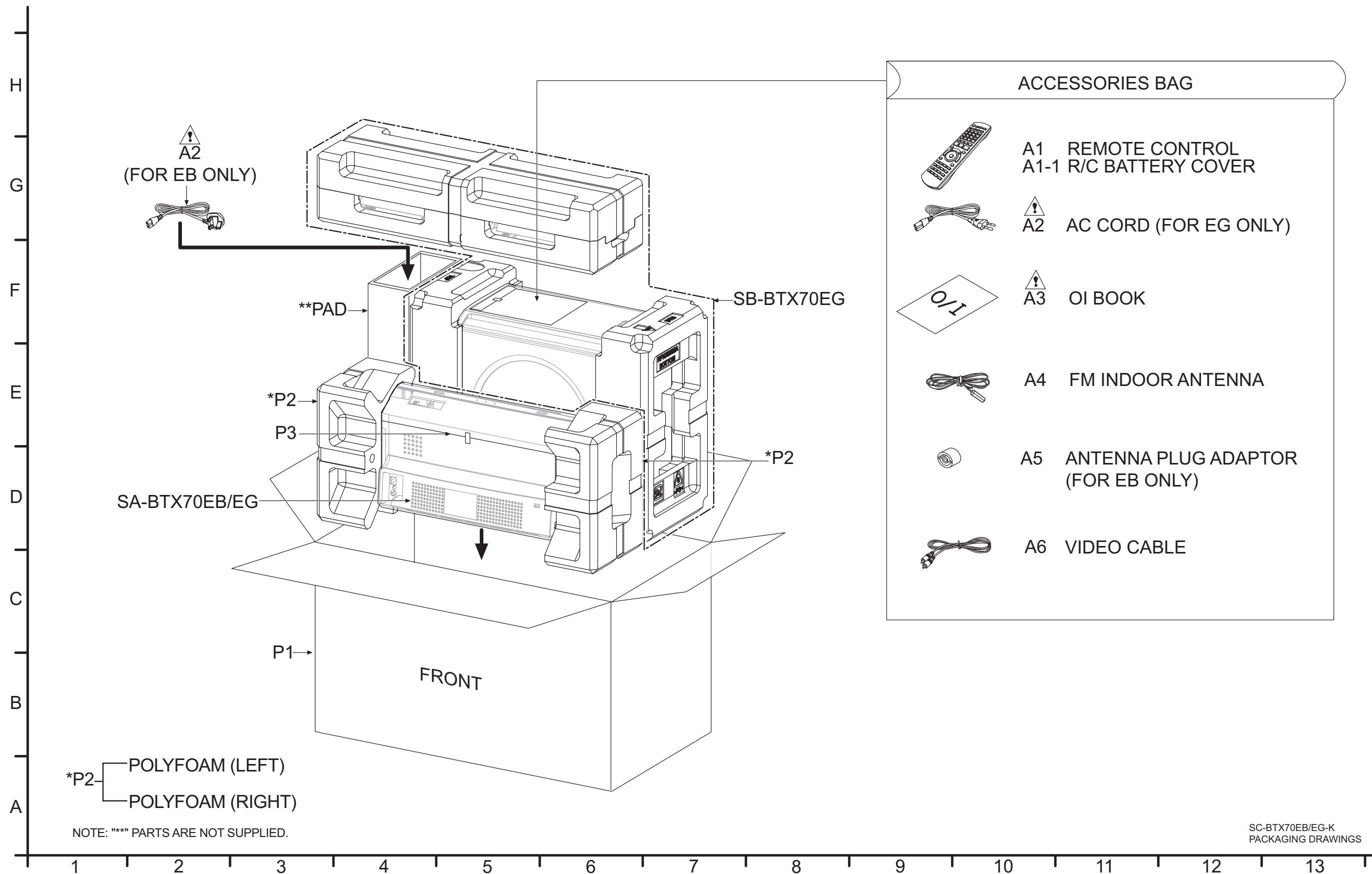
| LABEL | DESCRIPTION | PART NUMBER |
|-------|-------------|-------------|
| ❶     | DRY SURF    | RZGGA6063E  |
| ❷     | GREASE      | RZGGG6AG    |

SA-BTX68EF-K,  
SA-BTX70EB/EG-K  
GREASE DRAWINGS

19.1.3. Packaging



SC-BTX68EF-K  
PACKAGING DRAWINGS



## 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       | RXK0600-2    | SMPS CHASSIS UNIT                   | 1   |         |
|        | 51       | RMKX0158-K3  | DOCKING HOLDER                      | 1   |         |
|        | 52       | RMKX0159-1   | 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       | RMKX0157-K2  | DOCKING COVER                       | 1   |         |
|        | 65       | RMKX0160-1   | 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  $\Delta$  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)          |
| $\Delta$ | PCB3     | REP4522A     | SMPS P.C.B              | 1   | (RTL)          |
|          | PCB4     | REP4523A     | D-AMP P.C.B             | 1   | (RTL)<br>EB/EG |
|          | PCB5     | REP4523B     | D-AMP P.C.B             | 1   | (RTL)<br>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)          |
| $\Delta$ | 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    | RFKWFBTX70EB  | IC                      | 1   | EB      |
|          | IC305    | RFKWFBTX70EG  | IC                      | 1   | EG      |
|          | IC305    | RFKWFBTX68EF  | 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   |         |
| $\Delta$ | 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  | C0DBFG000001 | 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     | B1FGCAA00001 | TRANSISTOR              | 1   |         |
|        | Q402     | B1FGCAA00001 | TRANSISTOR              | 1   |         |
|        | Q1101    | B1ABCF000176 | TRANSISTOR              | 1   |         |
|        | Q1102    | B1ADCE000012 | TRANSISTOR              | 1   |         |
|        | Q1103    | B1ADCE000012 | TRANSISTOR              | 1   |         |
|        | Q4304    | B1FGCAA00001 | TRANSISTOR              | 1   |         |
|        | Q4305    | B1FGCAA00001 | 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    | B1GBCFG00018 | 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   |         |

