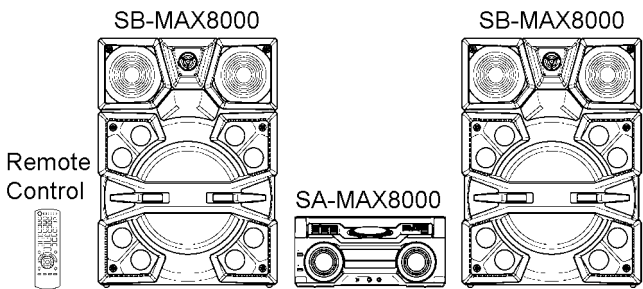


Service Manual

CD Stereo System

Model No. **SA-MAX8000GM**
SA-MAX8000GS

Product Color: (K)...Black Type



Notes: Please use this manual together with service manual
Model No.(SA-MAX8000GN), Order no. (PSG1502011CE).
• **CD Mechanism Unit, Order No. PSG1303059AE**
• **Speaker system SB-MAX8000GS, Order No: PSG1503012AE**

⚠ WARNING

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

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by ⚠ in the Schematic Diagrams, Circuit Board Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

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1 Notes

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

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

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

1) This service manual does not contains the following information

This simplified service manual is base on SA-MAX8000GN. Please refer to the original service manual, SA-MAX8000GN (Order No. PSG1502011CE) for the below mention contents.

- Service Navigation
- Location of Controls and Components
- Service Mode
- Troubleshooting Guide
- Disassembly and Assembly Instructions
- Service Position
- Wiring Connection Diagram
- Schematic Diagram
- Printed Circuit Board
- Voltage and Waveform Measurement
- Exploded View and Replacement Parts List

2) This service manual contains the following information

- Safety Precautions
- Warning
- Specifications
- Block Diagram
- Schematic Diagram
- Printed Circuit Board
- Exploded View and Replacement Parts List

2 Safety Precautions

2.1. General Guidelines

1. IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by $\triangle$ in the Schematic Diagrams, Circuit Board Layout, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent X-RADIATION, shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

2. An Isolation Transformer should always be used during the servicing of AC Adaptor whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks. It will also protect AC Adaptor from being damaged by accidental shorting that may occur during servicing.
3. 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.
4. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
5. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

2.1.1. Leakage Current Cold Check

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

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

2.1.2. Leakage Current Hot Check

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a $1.5k\Omega$, 10 watts resistor, in parallel with a $0.15\mu F$ capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1-1.
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.

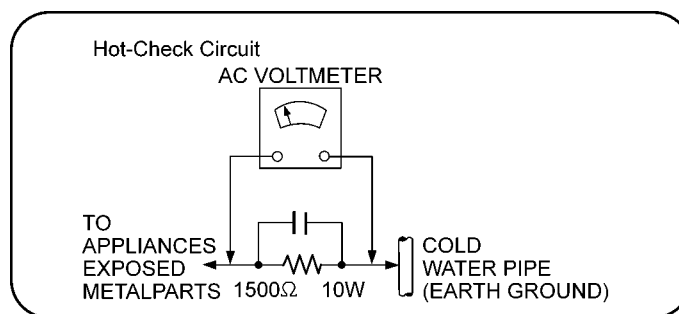


Figure 1-1

2.2. Before Repair and Adjustment

Disconnect AC power to discharge AC Capacitors (C1001, C1002, C1003, C1004, C1006, C1518) through a 10Ω , 10 W resistor to ground.

Caution:

DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may destroy solid state devices.

After repairs are completed, restore power gradually using a variac, to avoid overcurrent.

Current consumption at AC 220~240 V, 50/60 Hz in FM Tuner at volume minimum should be $\sim 850mA$.

2.3. Protection Circuitry

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

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

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

If this occurs, follow the procedure outlines below:

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

Note:

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

2.4. Caution For Fuse Replacement

CAUTION:

Replace with the same type fuse:

(Manufacturer: LITTELFUSE, Type: 215, F1001, T10AH, 250V)

Replace with the same type fuse:

(Manufacturer: Skygate Co., Ltd, Type: SCT, F1401, T500mA, 250V)

Replace with the same type fuse:

(Manufacturer: Skygate Co., Ltd, Type: SCT, F1501, T5A, 250V)

2.5. 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, Exploded View & 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
⚠	24	RGR0455M-A	REAR PANEL	
⚠	33	RKM0744-K2	TOP CABINET	
⚠	301	RAE1048Z-V	TRAVERSE ASS'Y	
⚠	A2	K2CP2YY00071	AC CORD	
⚠	A2	K2CQ2YY00127	AC CORD	
⚠	A2	K2CT2YY00103	AC CORD	
⚠	A3	RQT9979-Z	O/I BOOK (En,Cn,Ar)	
⚠	PCB14	REP5143B	SMPS P.C.B	(RTL)
⚠	DZ1001	D4EAY511A127	SURGE ABSORBER	
⚠	Q1403	B3PBA0000579	PHOTO COUPLER	
⚠	Q1404	B3PBA0000579	PHOTO COUPLER	
⚠	Q1405	B3PBA0000579	PHOTO COUPLER	
⚠	Q1505	B3PBA0000579	PHOTO COUPLER	
⚠	L1001	G0B183J00002	LINE FILTER	
⚠	L1002	G0B183J00002	LINE FILTER	
⚠	T1401	G4DYA0000688	SWITCHING TRANSFORMER	
⚠	T1501	G4DYA0000691	SWITCHING TRANSFORMER	
⚠	T1502	G4DYA0000691	SWITCHING TRANSFORMER	
⚠	F1001	K5D103BNA005	FUSE	
⚠	F1401	K5G501YA0081	FUSE	
⚠	F1501	K5G502Y00006	FUSE	
⚠	P1001	K2AZYA000005	AC INLET	
⚠	R1001	D0GF105JA048	1M 1/4W	
⚠	R1002	D0GF105JA048	1M 1/4W	
⚠	C1001	F0CAF224A105	0.22uF	
⚠	C1002	F0CAF224A105	0.22uF	
⚠	C1003	F1BAF1020030	1000pF	
⚠	C1004	F1BAF1020030	1000pF	
⚠	C1006	F0CAF104A105	0.1uF	
⚠	C1518	F1BAF1020030	1000pF	

3 Warning

3.1. Prevention of Electrostatic Discharge (ESD) to Electrostatically 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 IC (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).

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by $\triangle$ in the Schematic Diagrams, 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.

3.2. Precaution of Laser Diode

CAUTION:

THIS PRODUCT UTILIZES A LASER.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

Caution:

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

Wavelength: 790 nm (CD)

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

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

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

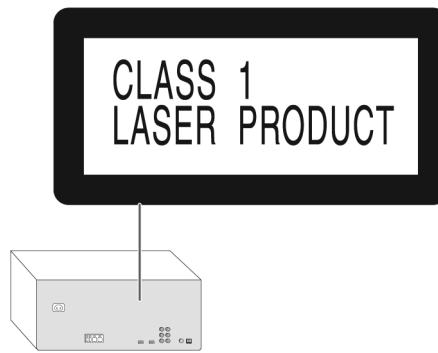


Figure 2-1

3.3. General description about Lead Free Solder (PbF)

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

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

Definition of PCB Lead Free Solder being used

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

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

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

Recommended Lead Free Solder (Service Parts Route.)

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

Note

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

3.4. Handling Precautions for Traverse Ass'y

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.

3.4.1. Cautions to Be Taken in Handling the Optical Pickup Unit (OPU)

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 FFC is connected to the new optical pickup unit. After replacing the optical pickup unit and connecting the flexi-

ble cable, cut off the antistatic FFC.

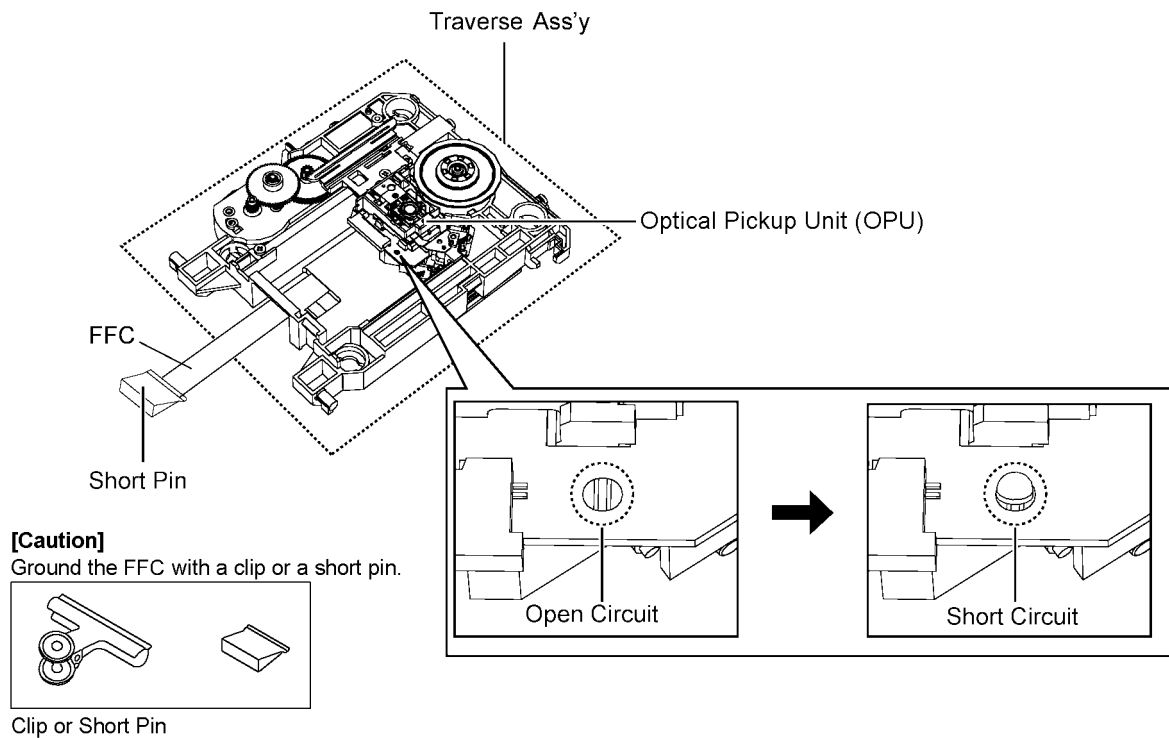


Figure 2-2

3.5. Grounding for electrostatic breakdown prevention

- As for parts that use optical pick-up (laser diode), the optical pick-up is destroyed by the static electricity of the working environment.
Repair in the working environment that is grounded.

3.5.1. Worktable grounding

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

3.5.2. Human body grounding

- Use the anti-static wrist strap to discharge the static electricity from your body Figure 2-3.

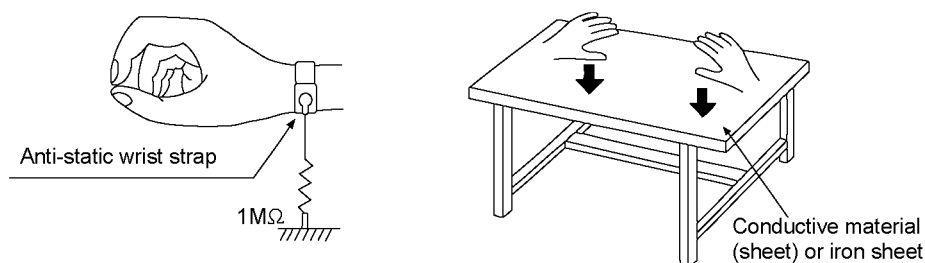


Figure 2-3

4 Specifications

■ Amplifier section

RMS output power stereo mode

High Ch	500 W per channel (3 Ω), 1 kHz, 30% THD
Mid Ch	500 W per channel (3 Ω), 1 kHz, 30% THD
Low Ch	1000 W per channel (5 Ω), 100 Hz, 30% THD
Total RMS stereo mode power	4000 W

■ Disc section

Disc played (8 cm or 12 cm)

CD, CD-R/RW (CD-DA, MP3*)

*MPEG-1 Layer 3, MPEG-2 Layer 3

Pick up

Wavelength	790 nm(CD)
------------	------------

■ Bluetooth® section

Version	Bluetooth® 2.1 + EDR
Class	Class 2
Supported profiles	A2DP, AVRCP, SPP, OPP, FTP
Operating frequency	2.4 GHz band FH-SS
Operation distance	10 m line of sight

■ Internal memory section

Memory

Memory size	2 GB
Media file format support	MP3 (*.mp3)

Memory recording

Bit rate	128 kbps
Memory recording speed	1x, 3x max (CD only)
Recording file format	MP3 (*.mp3)

■ Tuner section

Frequency modulation (FM)

Preset memory	30 stations
Frequency range	87.50 MHz to 108.00 MHz (50 kHz step)
Antenna terminals	75 Ω (unbalanced)

Amplitude modulation (AM)

Preset memory	15 stations
Frequency range	522 kHz to 1629 kHz (9 kHz step) 520 kHz to 1630 kHz (10 kHz step)

■ Terminal section

USB port

USB standard	USB 2.0 full speed
Media file format support	MP3 (*.mp3)
USB device file system	FAT12, FAT16, FAT32

USB recording

Bit rate	128 kbps
USB recording speed	1x, 3x (CD only)
Recording file format	MP3 (*.mp3)

AUX IN 1, 2, 3

Audio input	Pin jack
-------------	----------

AUX IN 4

Terminal	Stereo, 3.5 mm jack
----------	---------------------

Microphone

Terminal	Mono, 6.3 mm jack (2 systems)
----------	-------------------------------

■ General

Power supply	AC 220 V to 240 V, 50/60 Hz
Power consumption	340 W

Dimensions (W x H x D)	492 mm x 221 mm x 421 mm
Mass	7.1 kg
Operating temperature range	0 °C to +40 °C
Operating humidity range	35% to 80% RH (no condensation)

Power consumption in standby mode (approximate)

0.4 W

Power consumption in standby mode (approximate)

0.5 W

(With "BLUETOOTH STANDBY" set to "ON")

Note:

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

■ System: SC-MAX8000GM

Main Unit: SA-MAX8000GM
Speaker System: SB-MAX8000GS

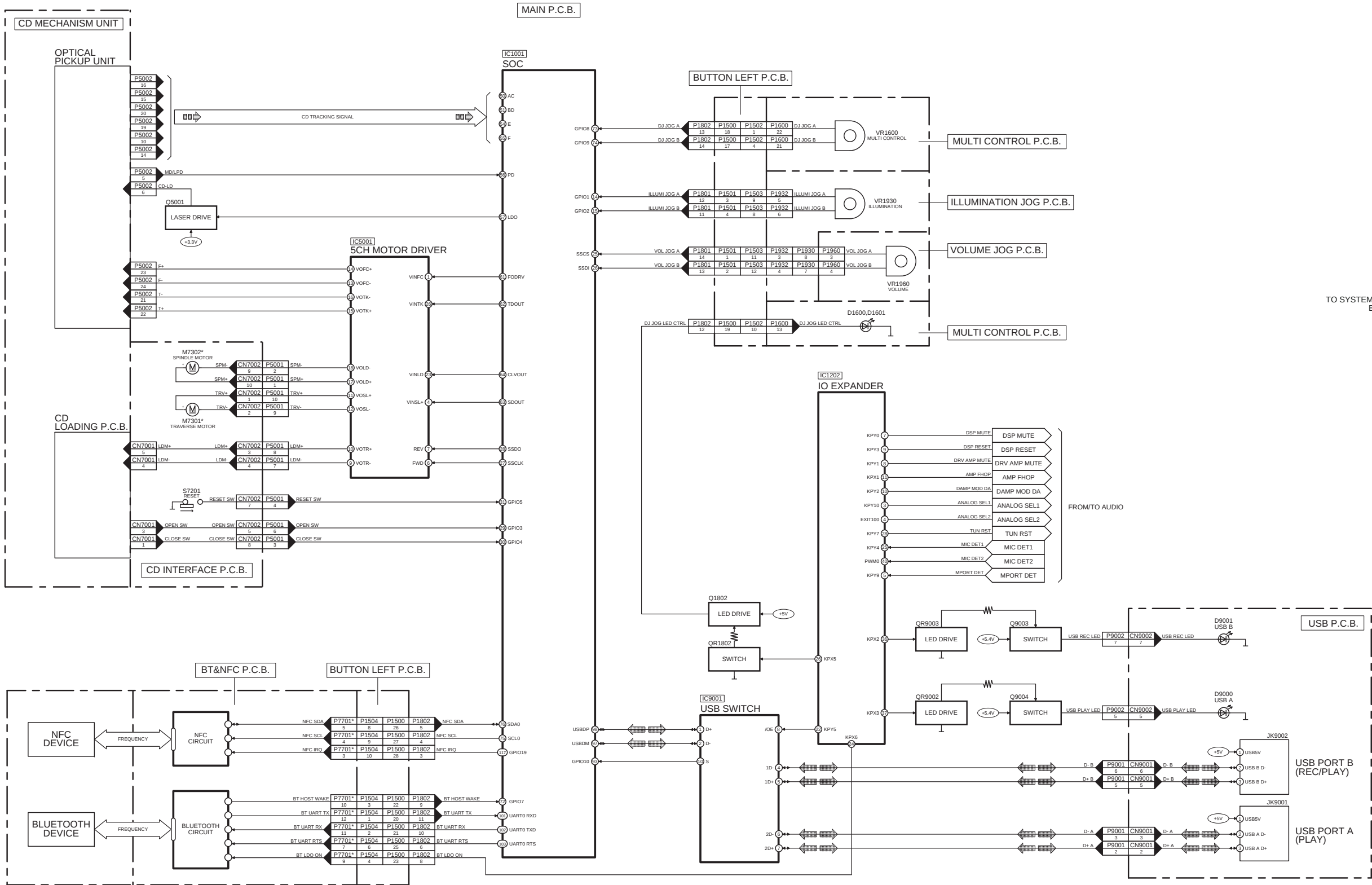
■ System: SC-MAX8000GS

Main Unit: SA-MAX8000GS
Speaker System: SB-MAX8000GS

5 Block Diagram

5.1. System Control

 : CD SIGNAL LINE
  : TUNER/AUX SIGNAL LINE
  : USB SIGNAL LINE

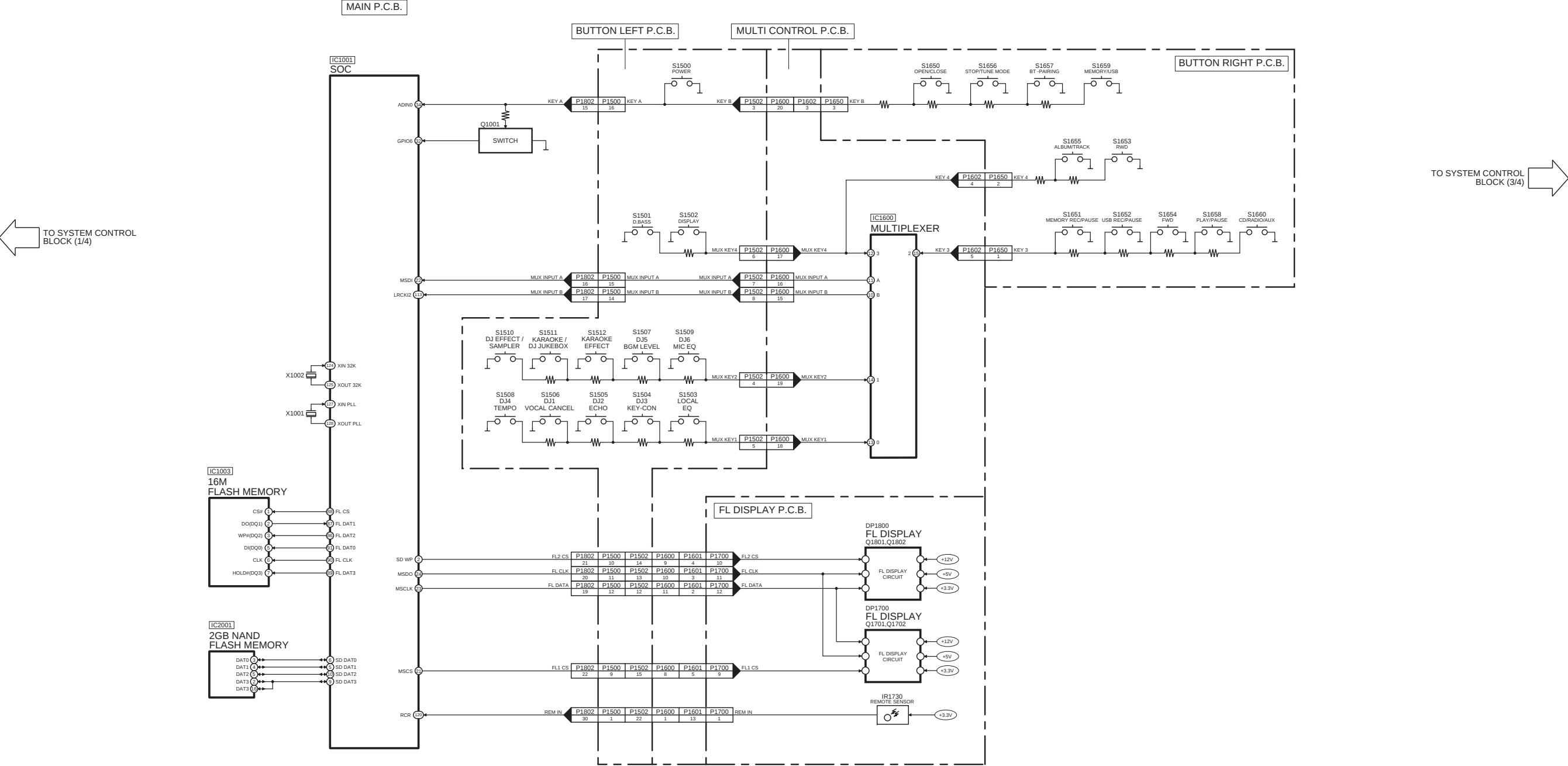


TO SYSTEM CONTROL BLOCK (2/4)

NOTE: " * " REF IS FOR INDICATION ONLY

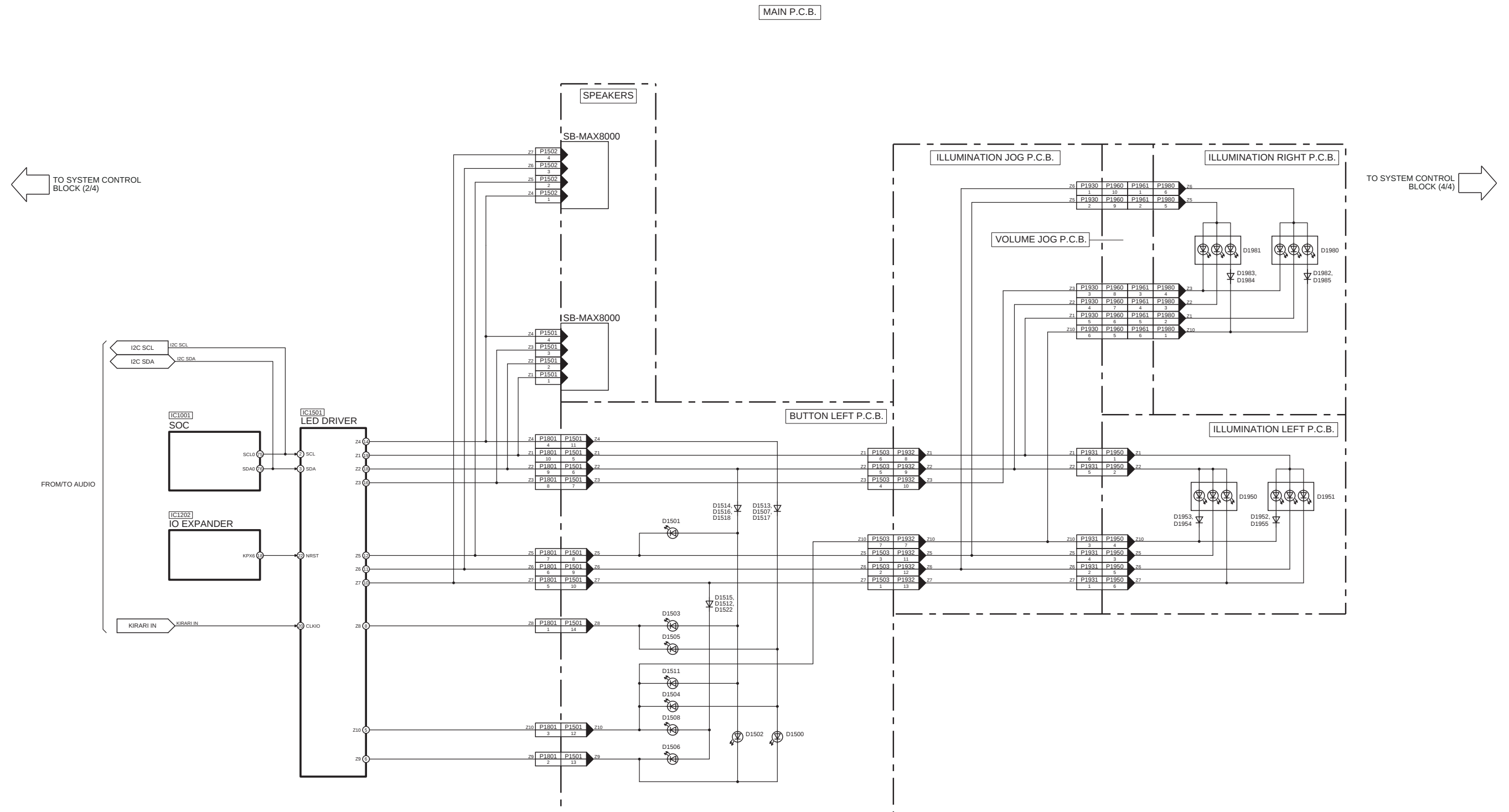
SA-MAX8000GS/GM SYSTEM CONTROL (1/4) BLOCK DIAGRAM

CD SIGNAL LINE TUNER/AUX SIGNAL LINE USB SIGNAL LINE



SA-MAX8000GS/GM SYSTEM CONTROL (2/4) BLOCK DIAGRAM

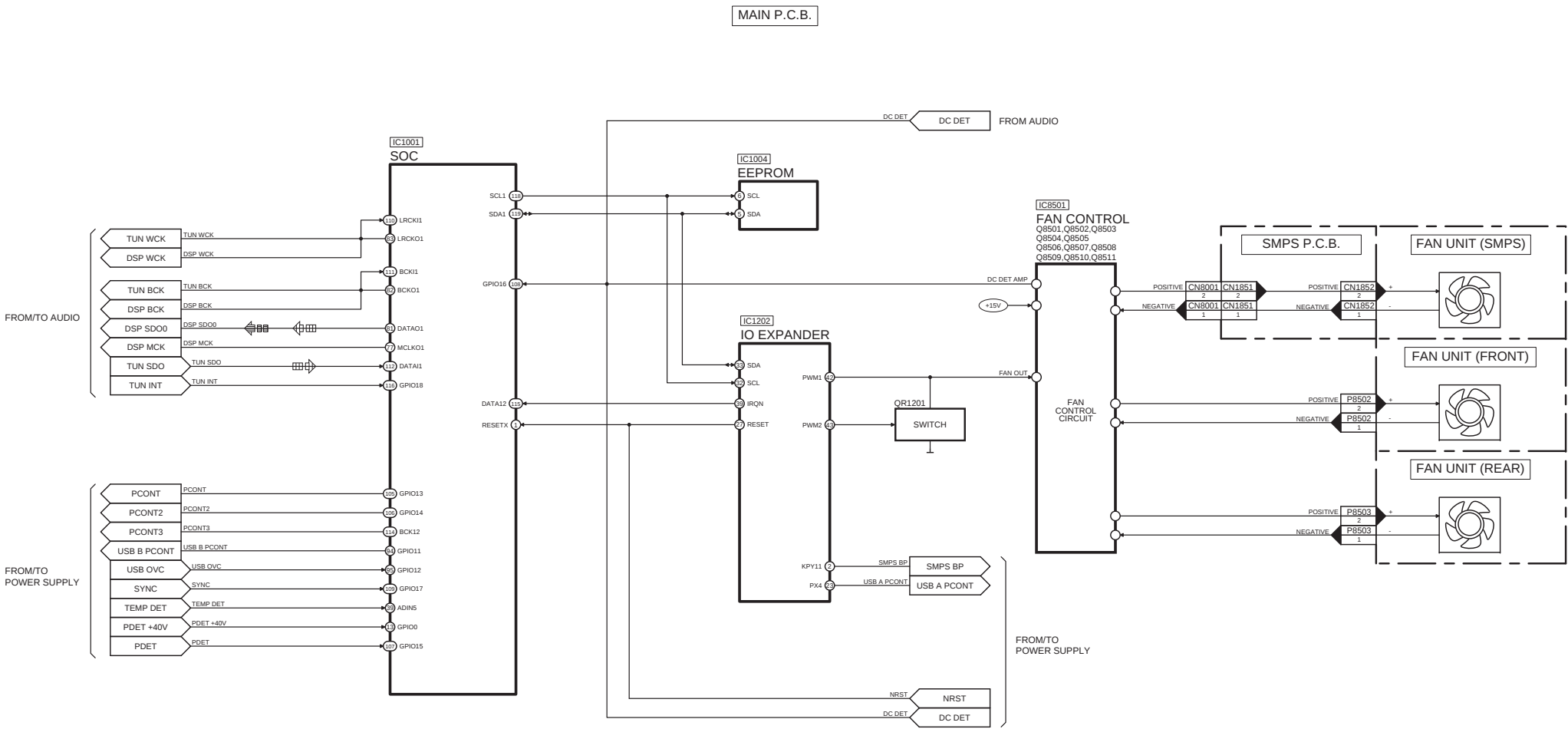
 : CD SIGNAL LINE
  : TUNER/AUX SIGNAL LINE
  : USB SIGNAL LINE



SA-MAX8000GS/GM SYSTEM CONTROL (3/4) BLOCK DIAGRAM

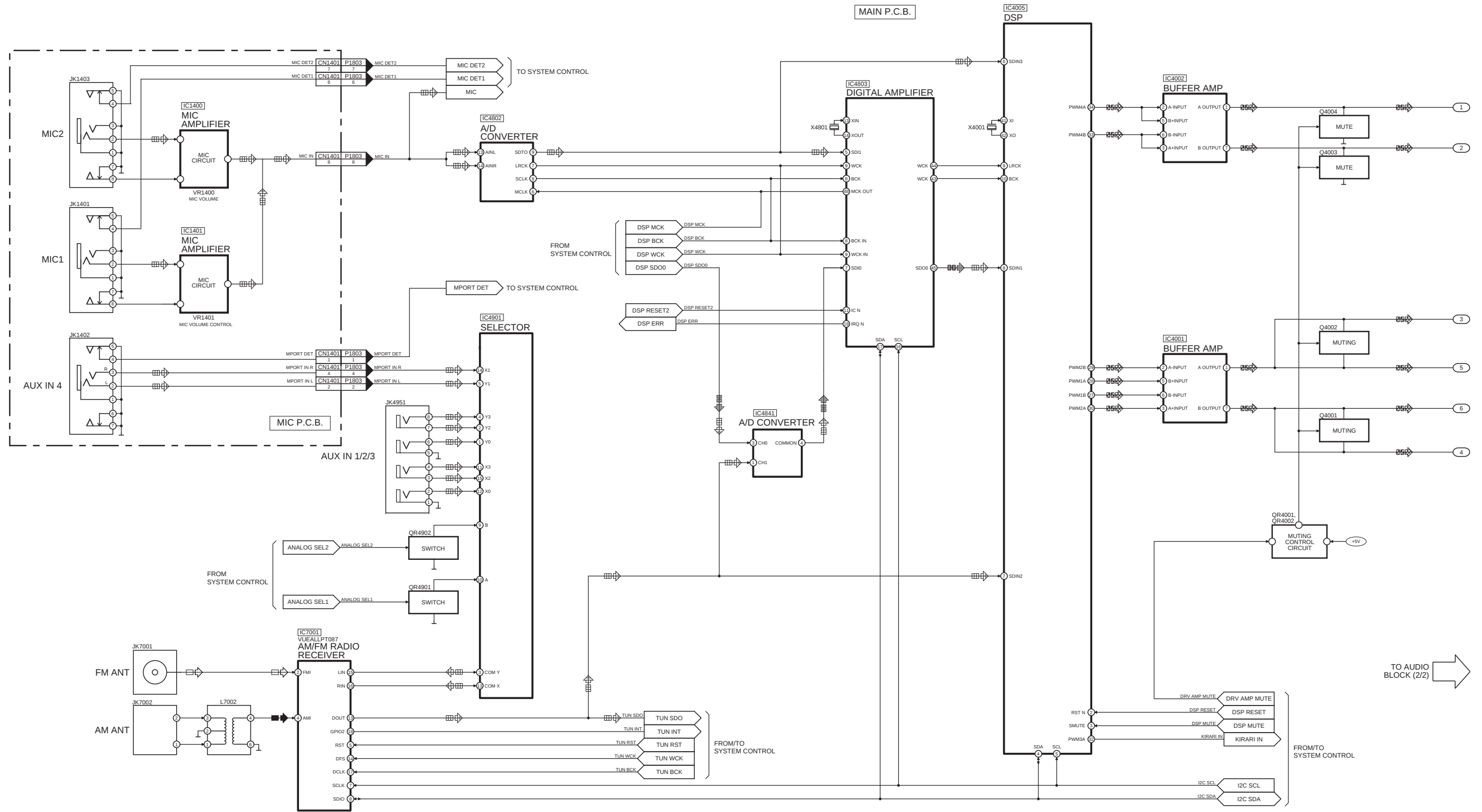
CD SIGNAL LINE TUNER/AUX SIGNAL LINE USB SIGNAL LINE

TO SYSTEM CONTROL
BLOCK (3/4)



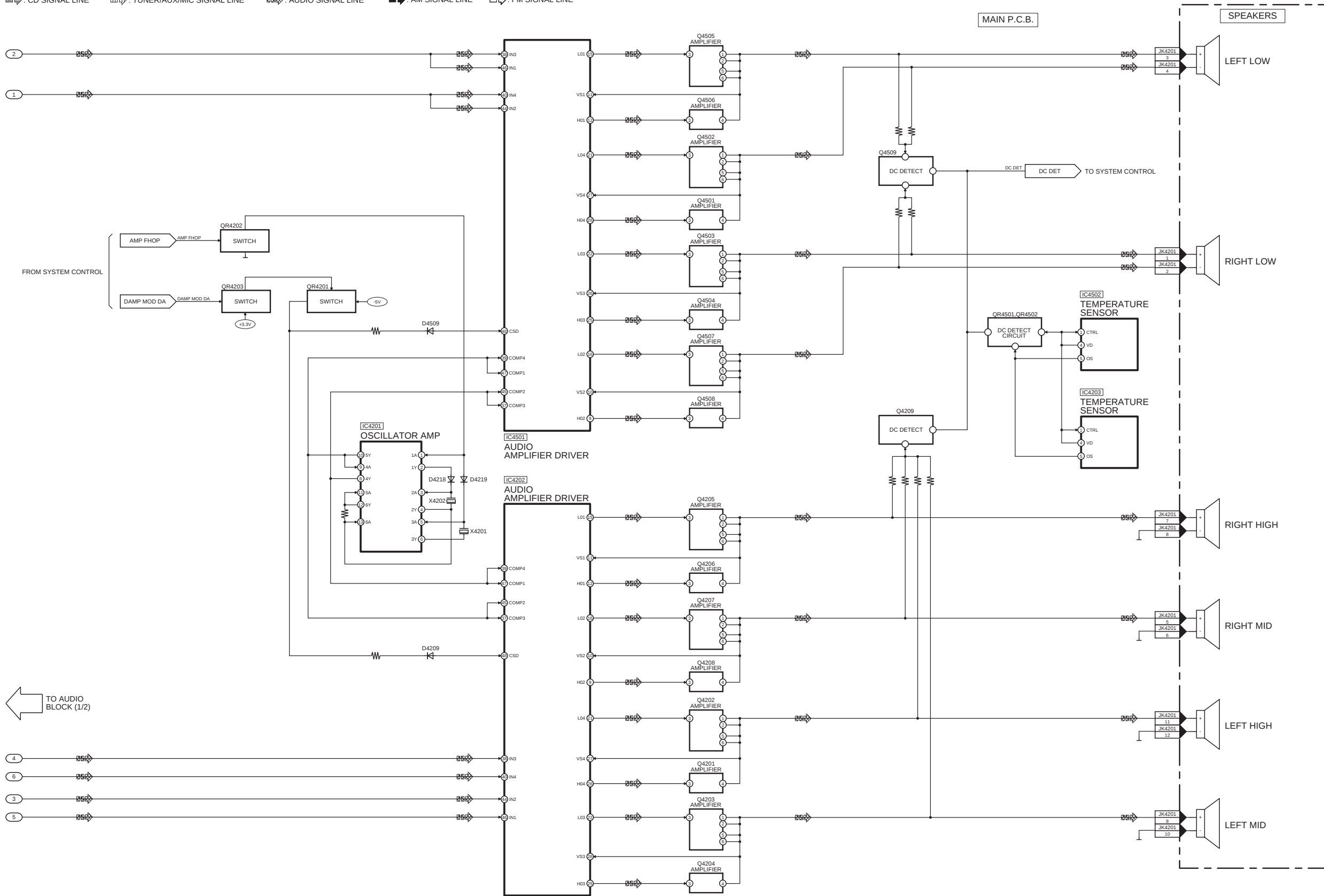
5.2. Audio

CD SIGNAL LINE TUNER/AUX/MIC SIGNAL LINE AUDIO SIGNAL LINE AM SIGNAL LINE FM SIGNAL LINE



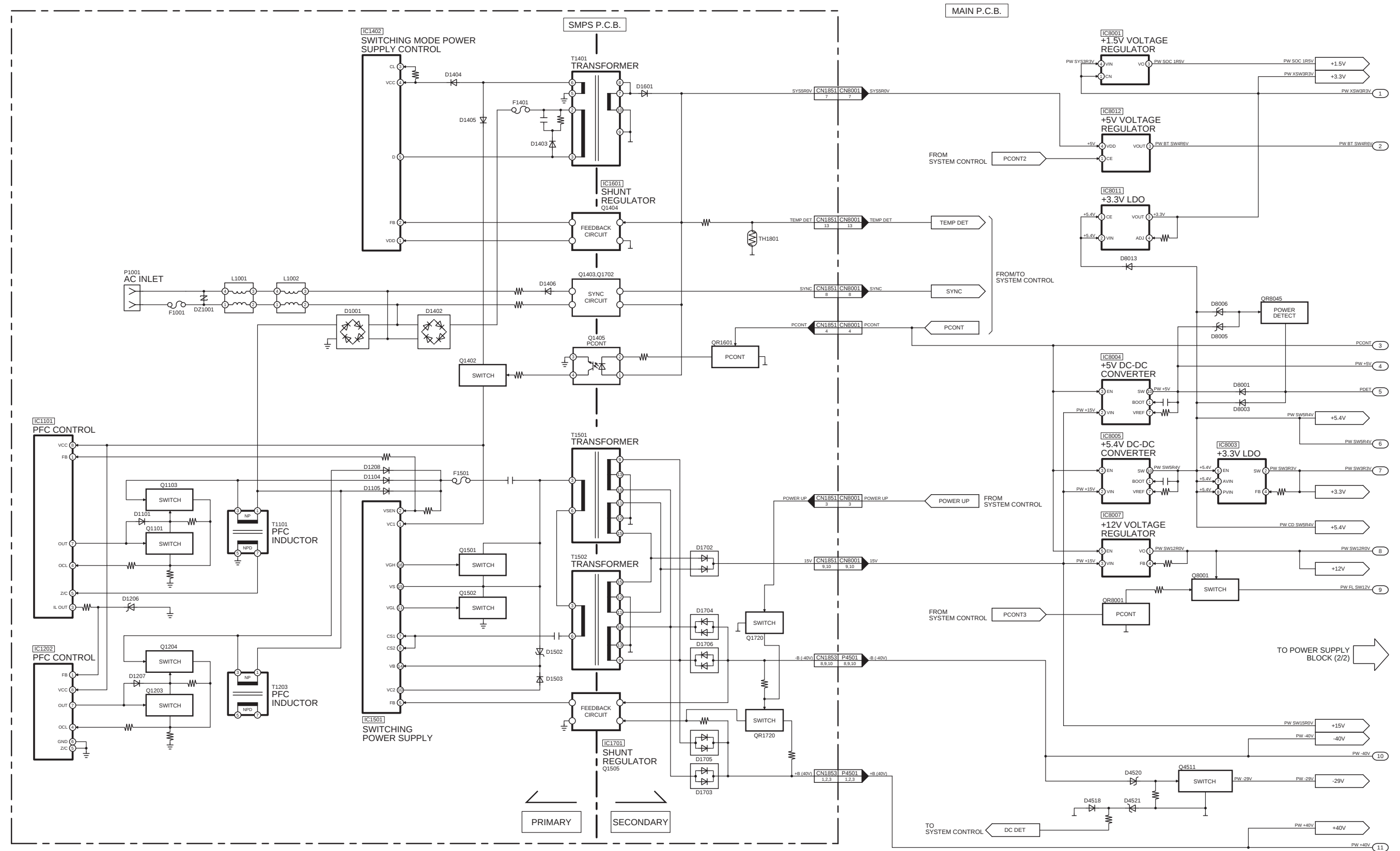
SA-MAX8000GS/GM AUDIO (1/2) BLOCK DIAGRAM

: CD SIGNAL LINE
 : TUNER/AUX/MIC SIGNAL LINE
 : AUDIO SIGNAL LINE
 : AM SIGNAL LINE
 : FM SIGNAL LINE

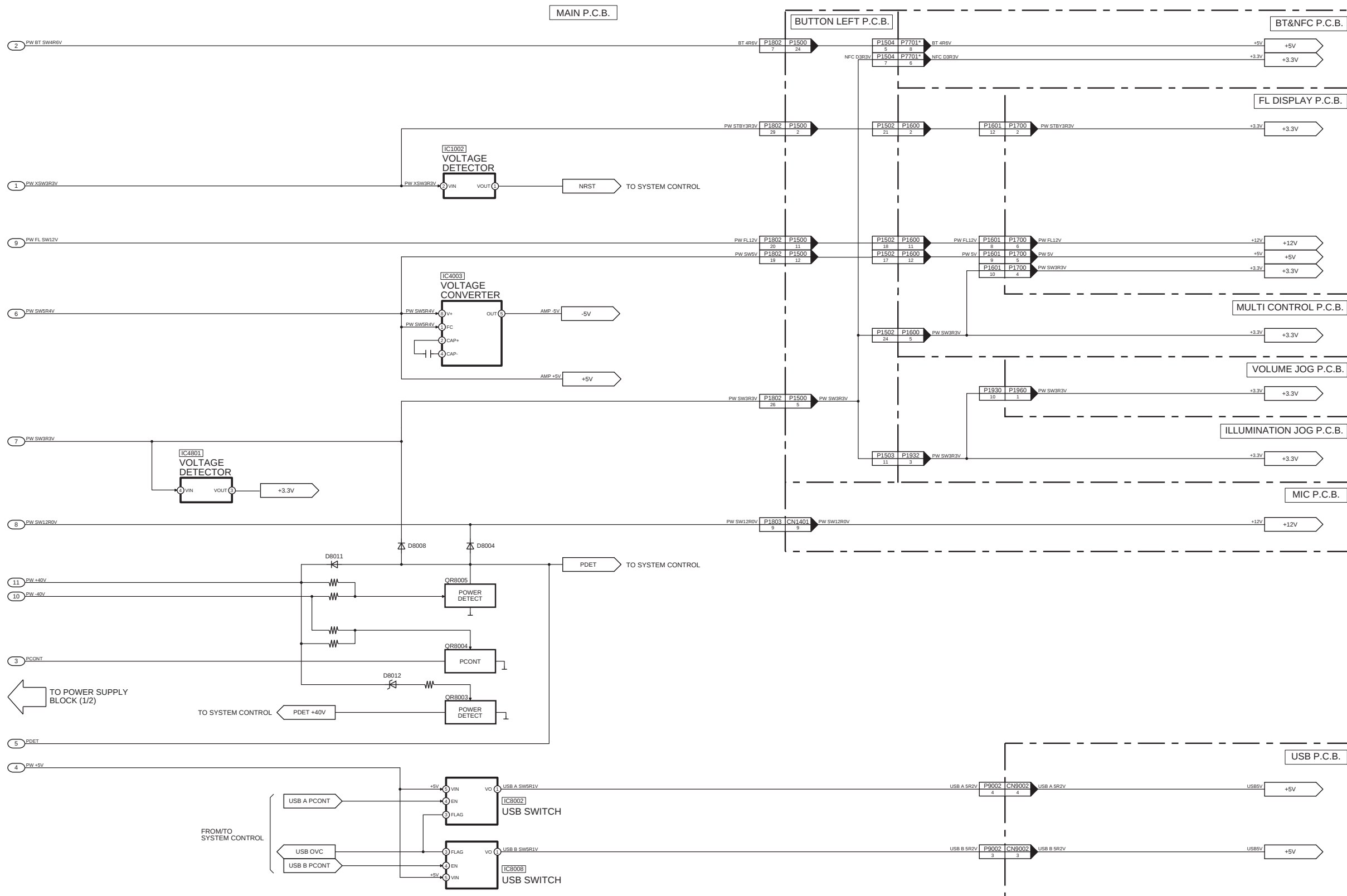


SA-MAX8000GS/GM AUDIO (2/2) BLOCK DIAGRAM

5.3. Power Supply



SA-MAX8000GS/GM POWER SUPPLY (1/2) BLOCK DIAGRAM

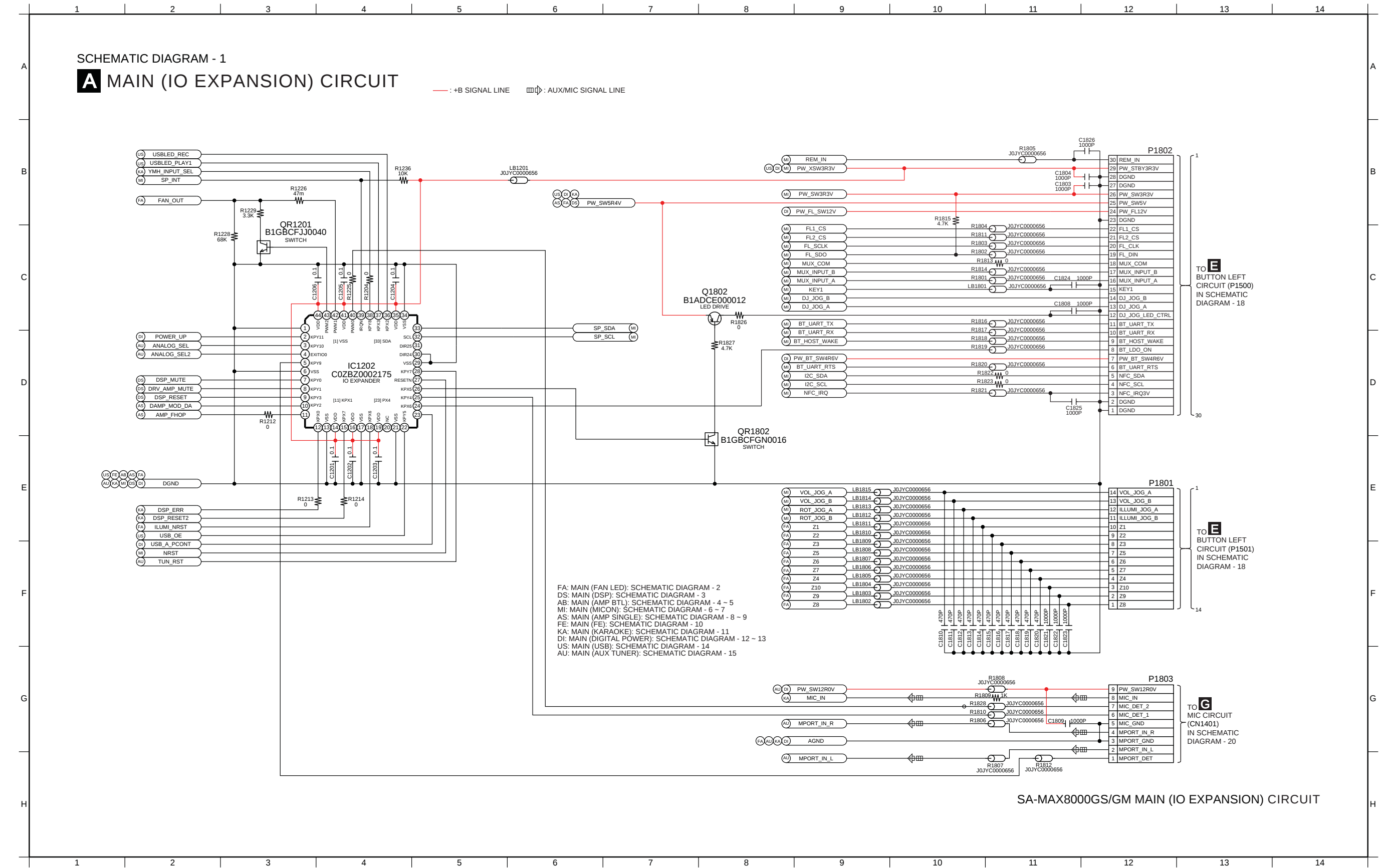


NOTE: “ * ” REF IS FOR INDICATION ONLY

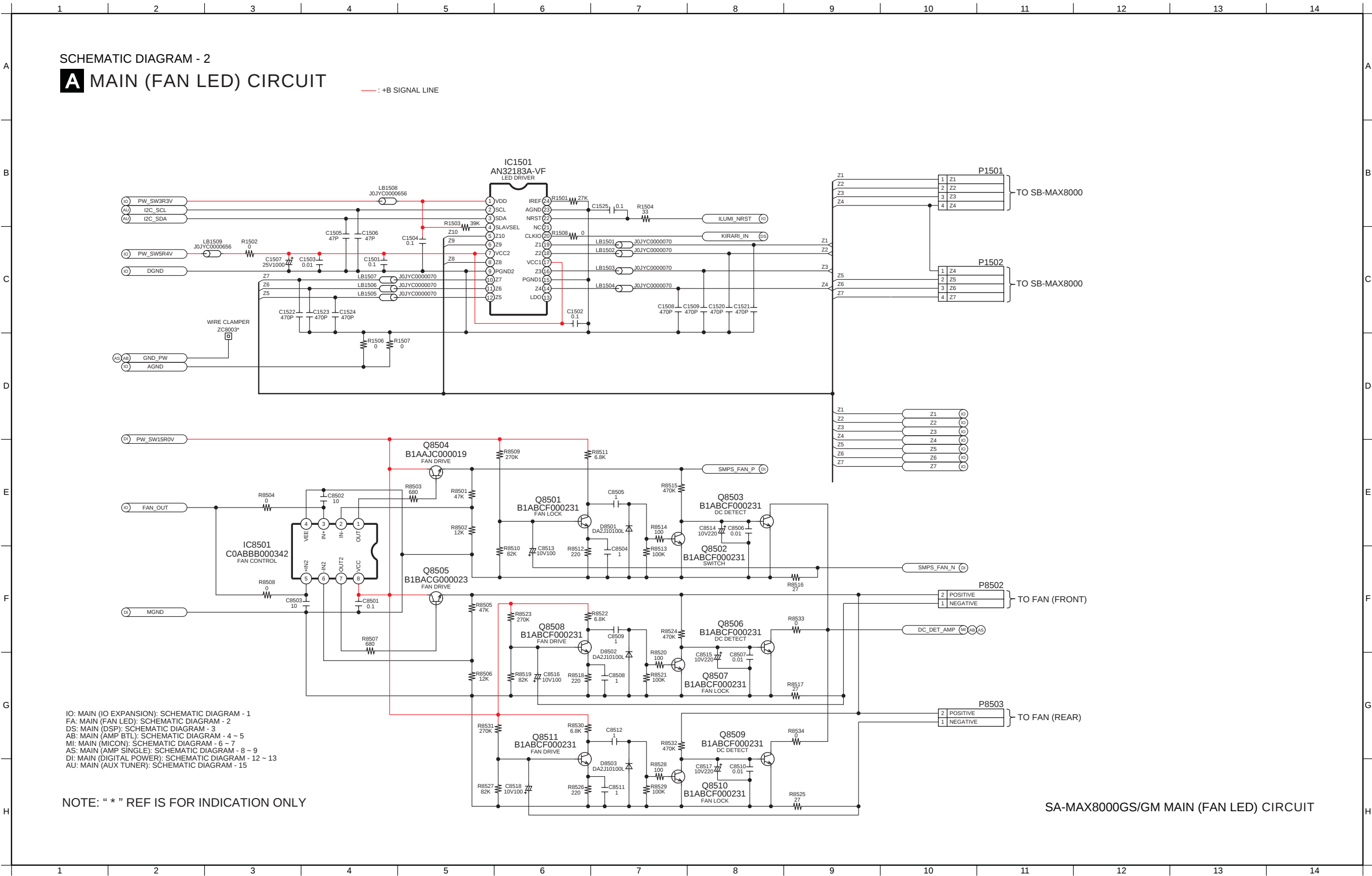
SA-MAX8000GS/GM POWER SUPPLY (2/2) BLOCK DIAGRAM

6 Schematic Diagram

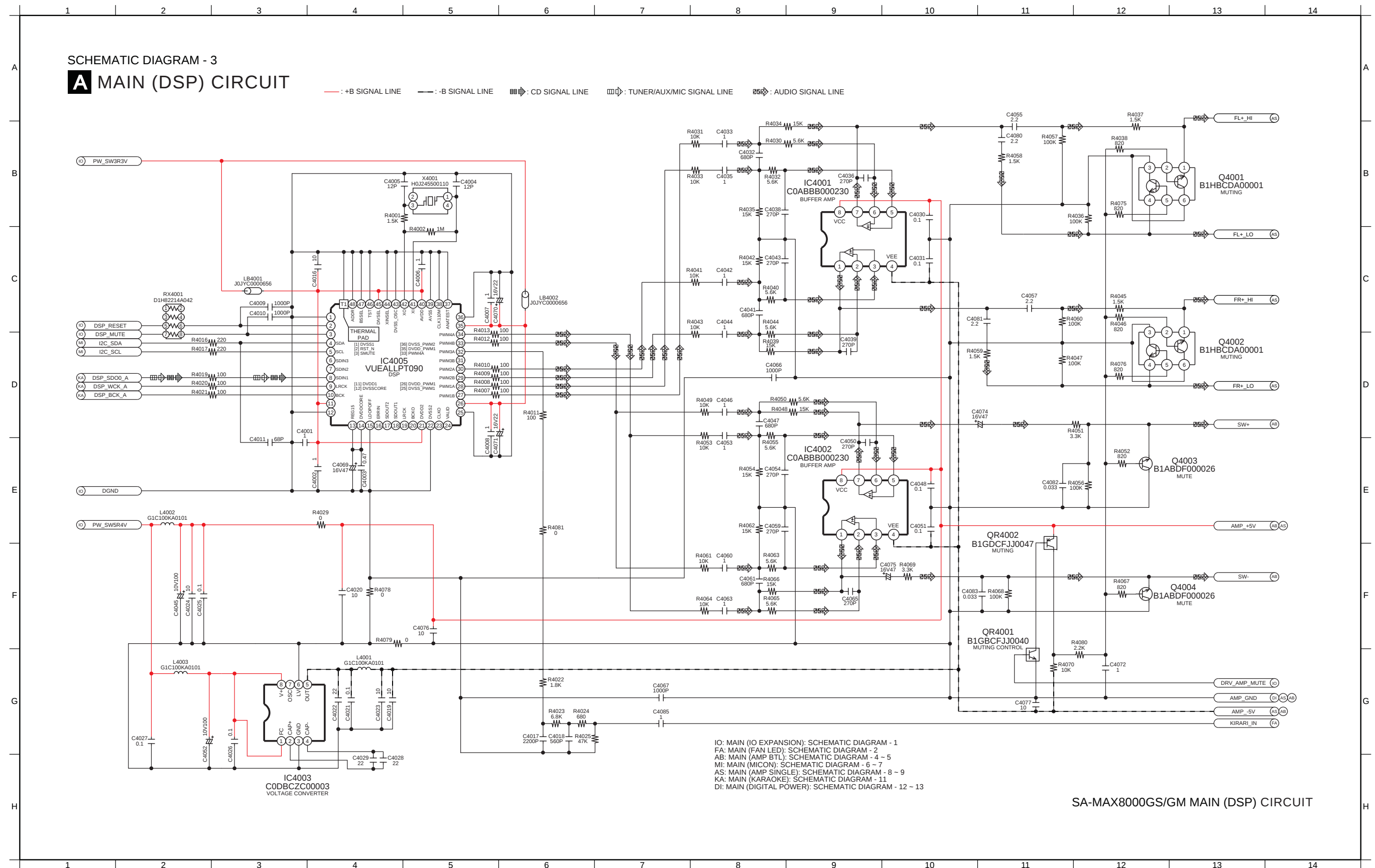
6.1. Main (IO Expansion) Circuit



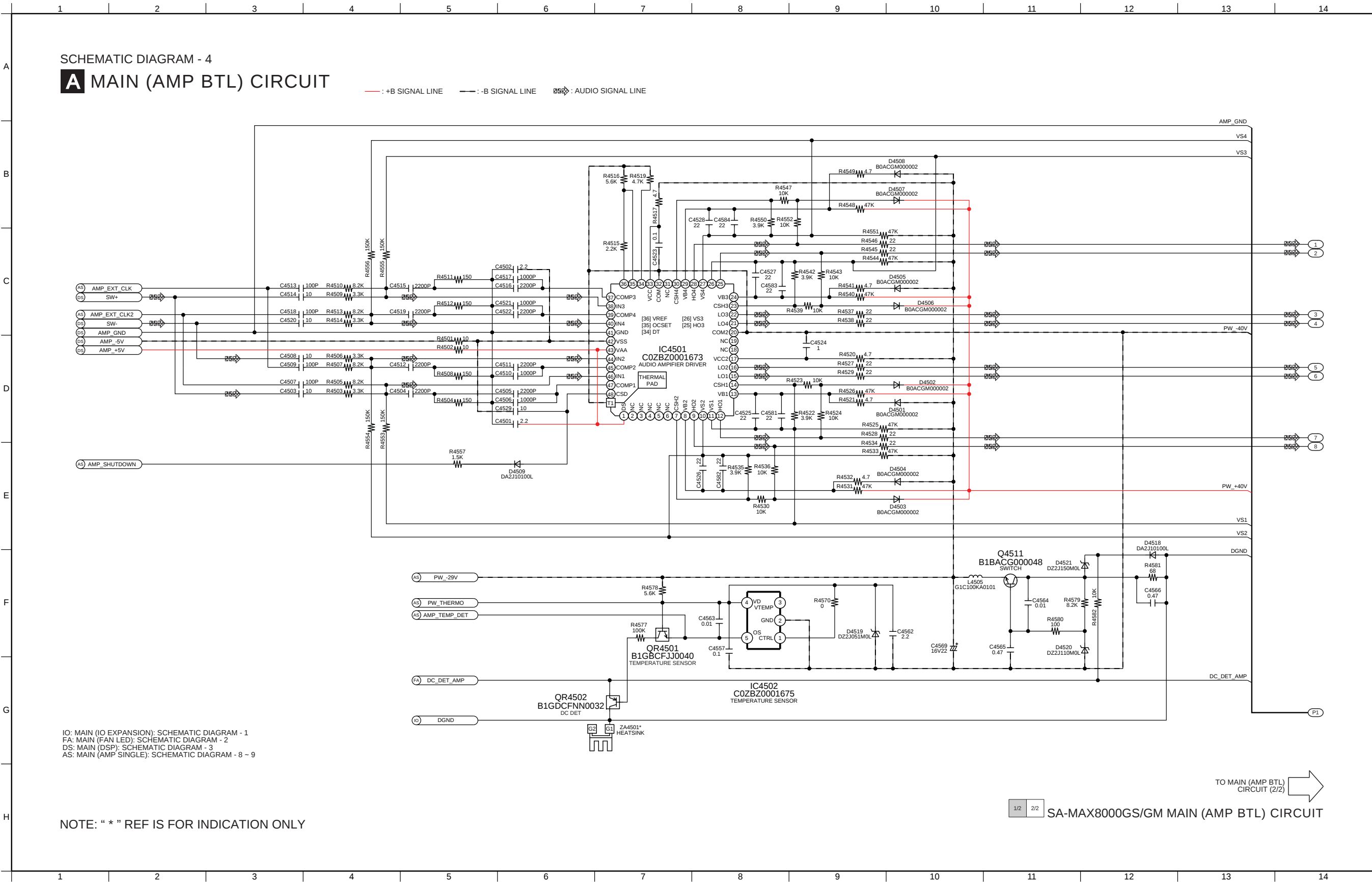
6.2. Main (Fan LED) Circuit



6.3. Main (DSP) Circuit



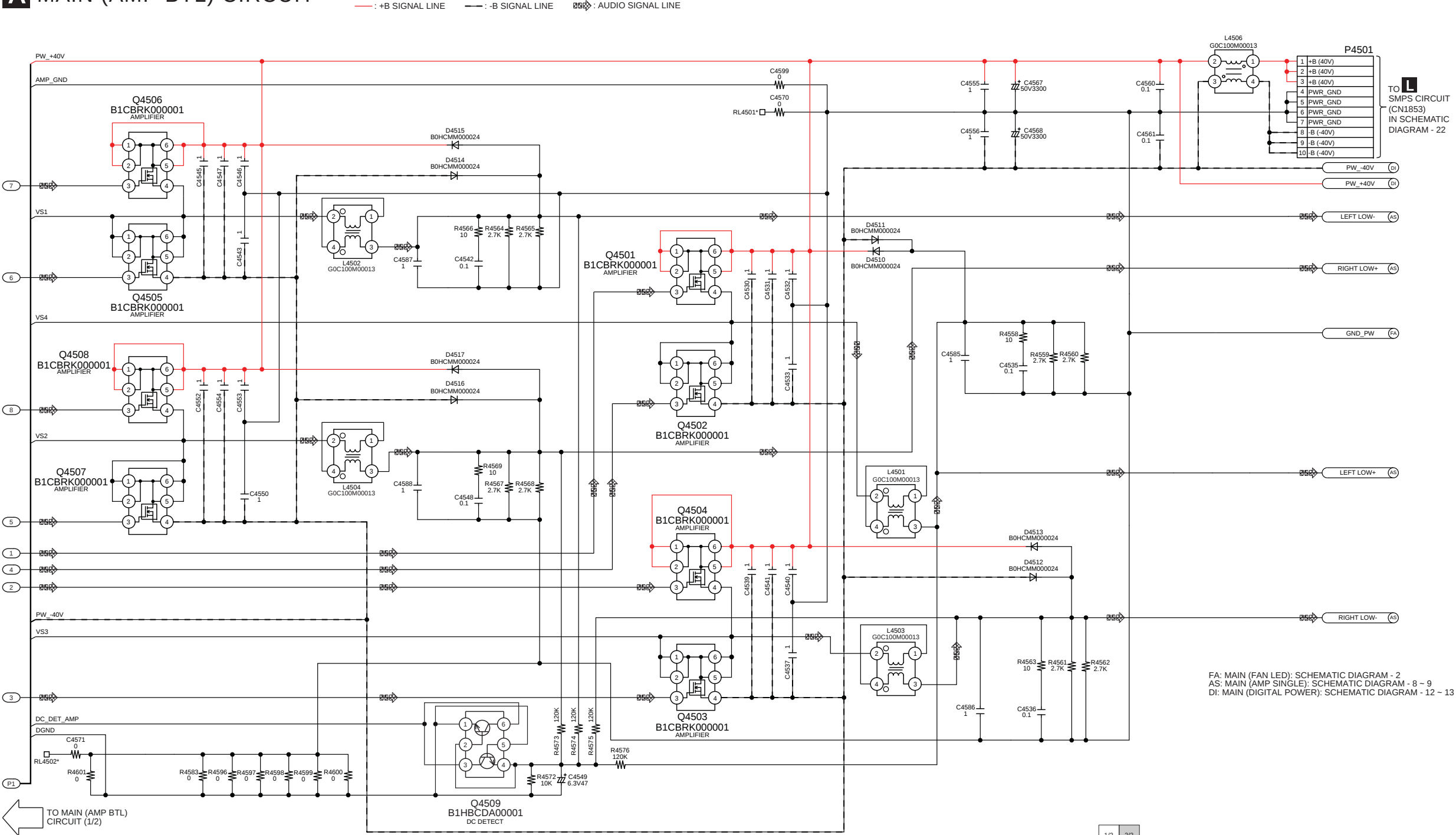
6.4. Main (Amp BTL) Circuit (1/2)



6.5. Main (Amp BTL) Circuit (2/2)

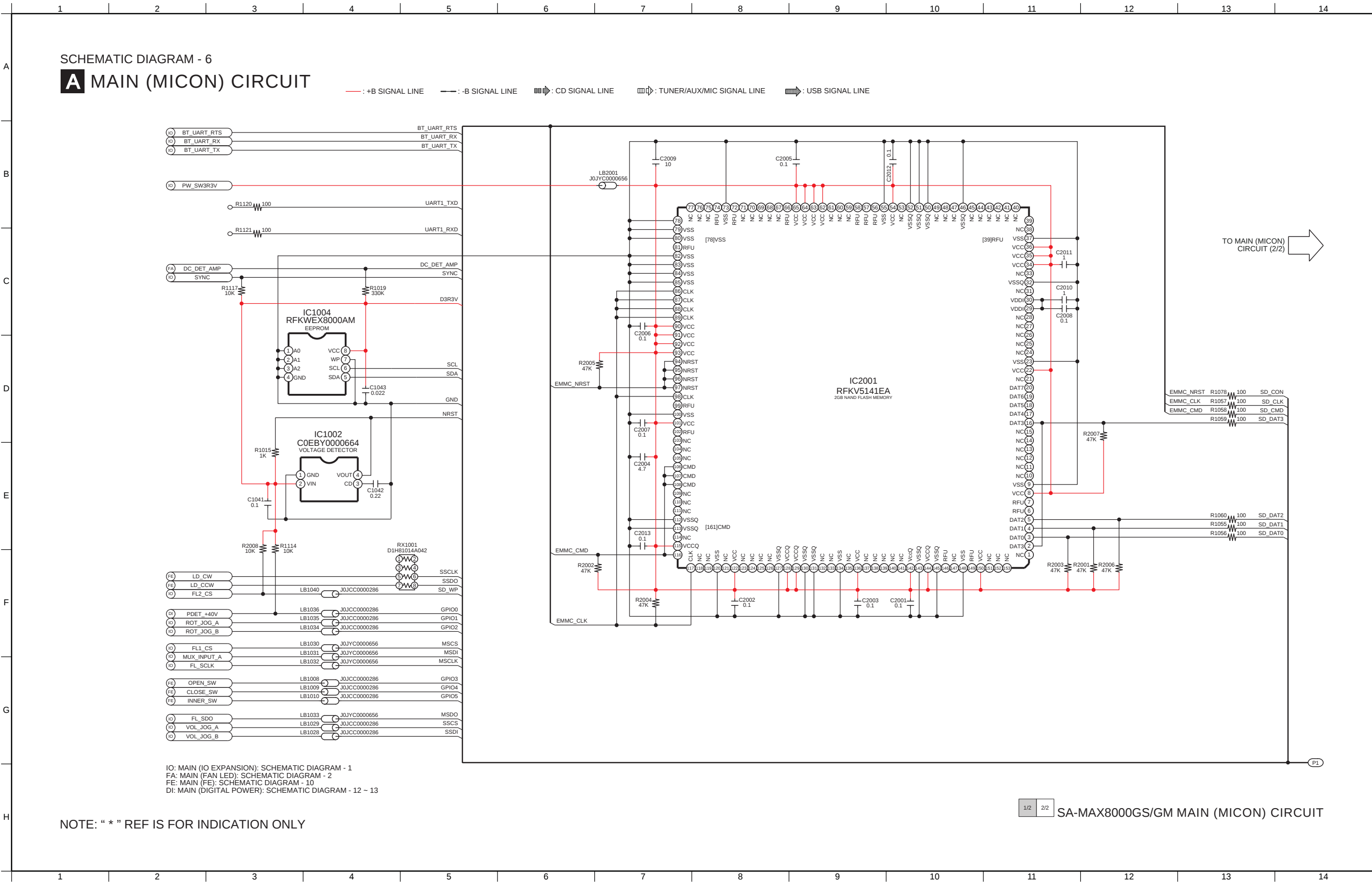
SCHEMATIC DIAGRAM - 5

A MAIN (AMP BTL) CIRCUIT



NOTE: " * " REF IS FOR INDICATION ONLY

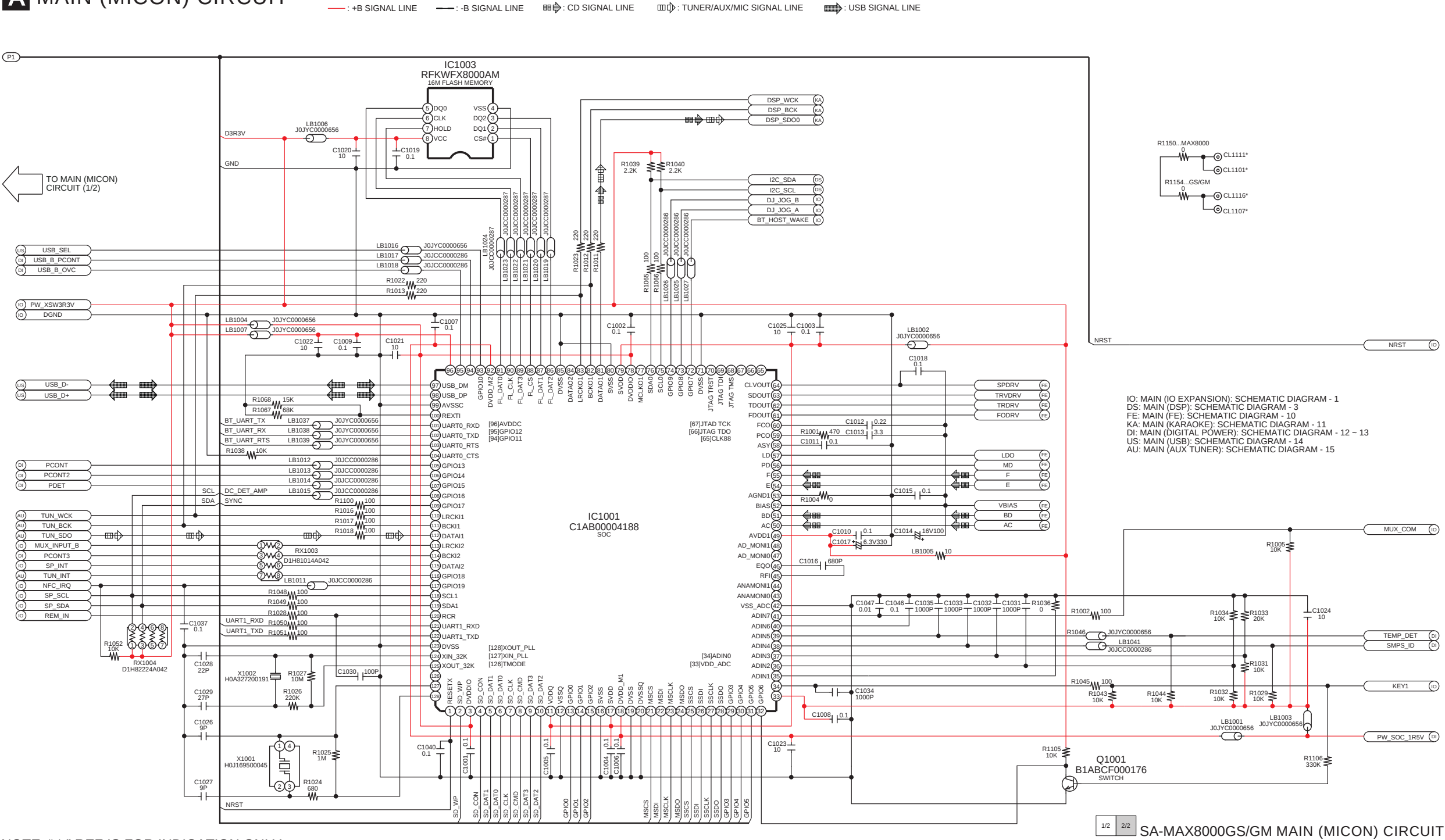
6.6. Main (MICON) Circuit (1/2)



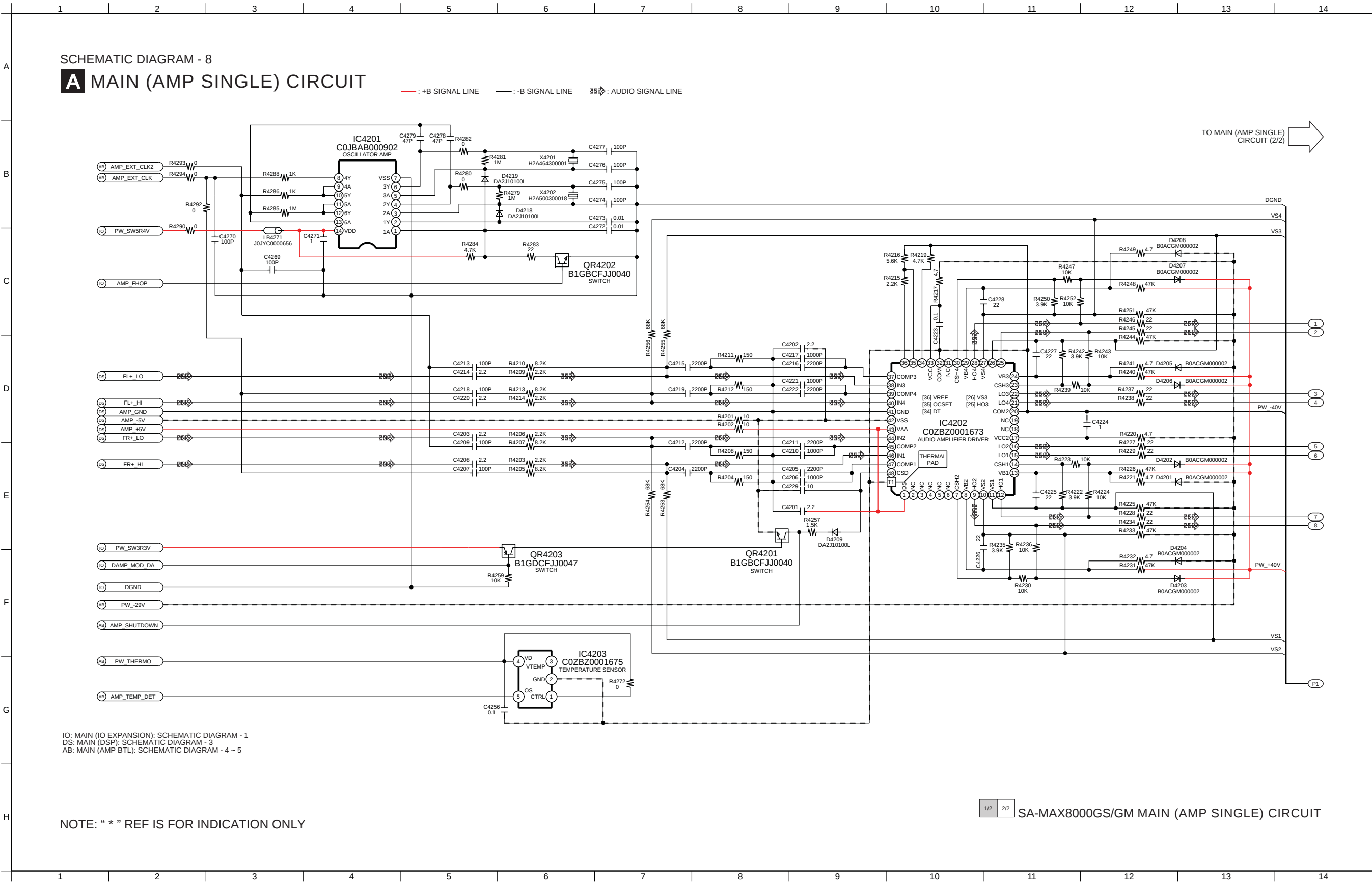
6.7. Main (MICON) Circuit (2/2)

SCHEMATIC DIAGRAM - 7

A MAIN (MICON) CIRCUIT



6.8. Main (Amp Single) Circuit (1/2)

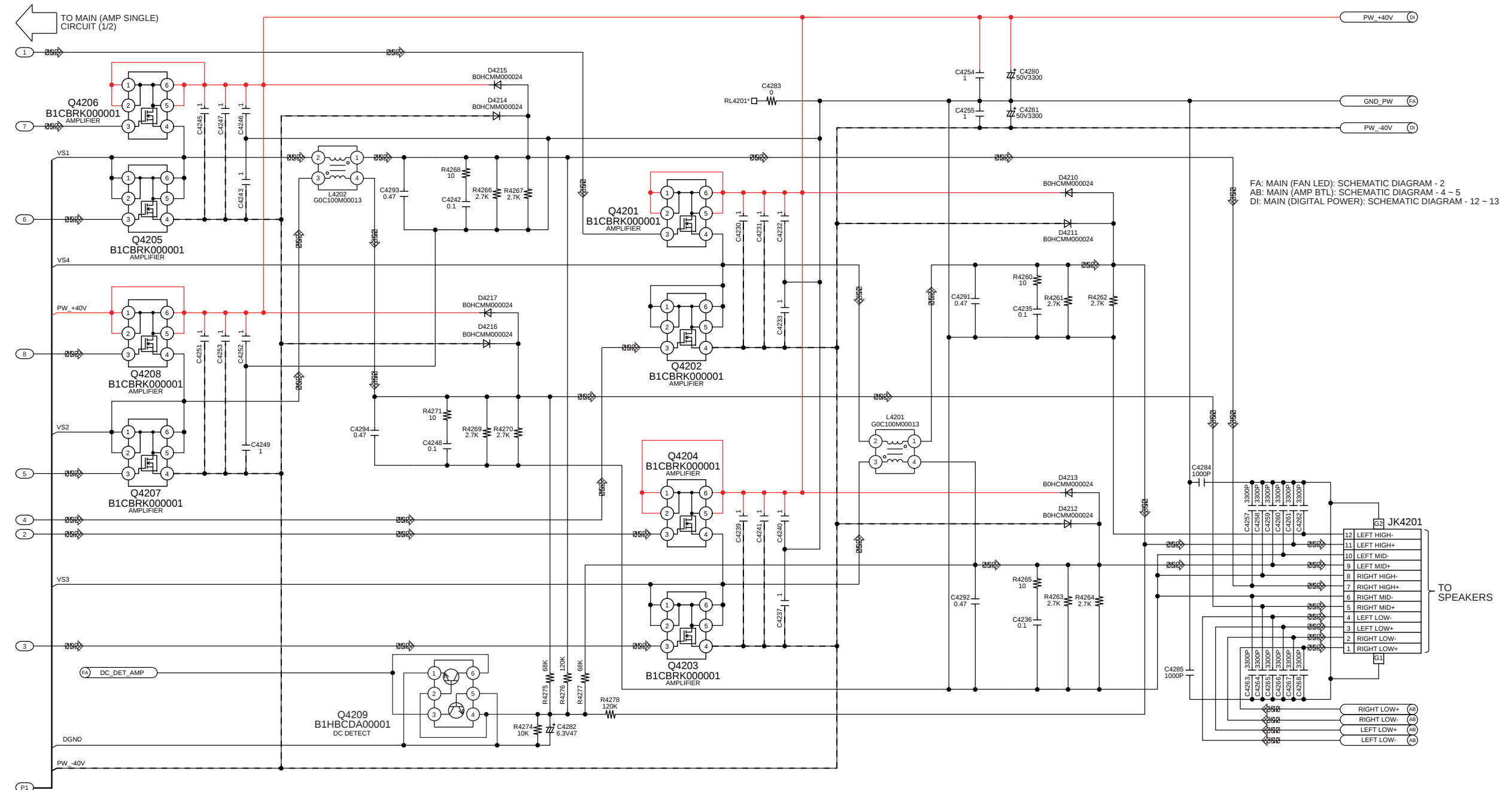


6.9. Main (Amp Single) Circuit (2/2)

SCHEMATIC DIAGRAM - 9

A MAIN (AMP SINGLE) CIRCUIT

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

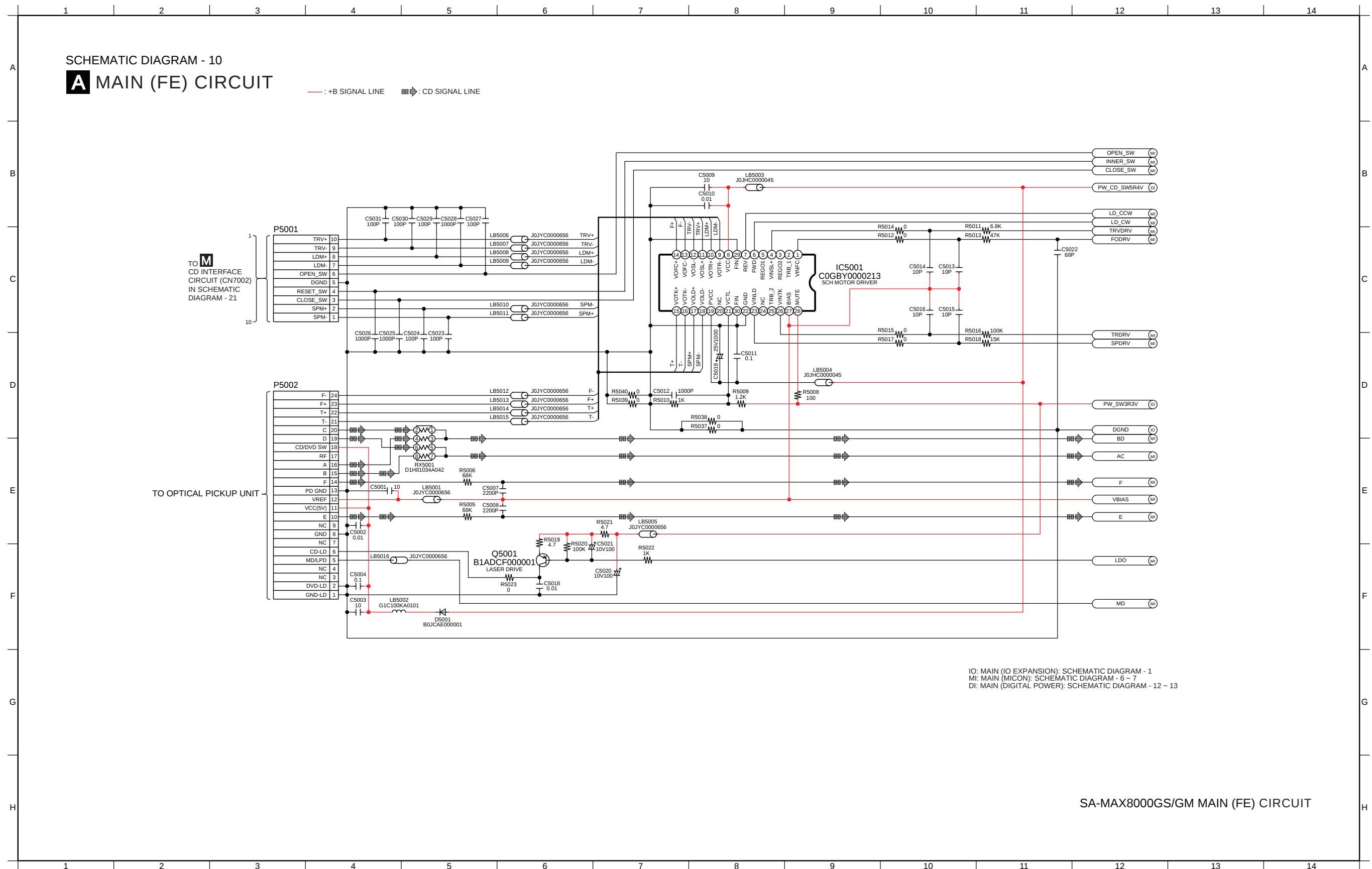


NOTE: " * " REF IS FOR INDICATION ONLY

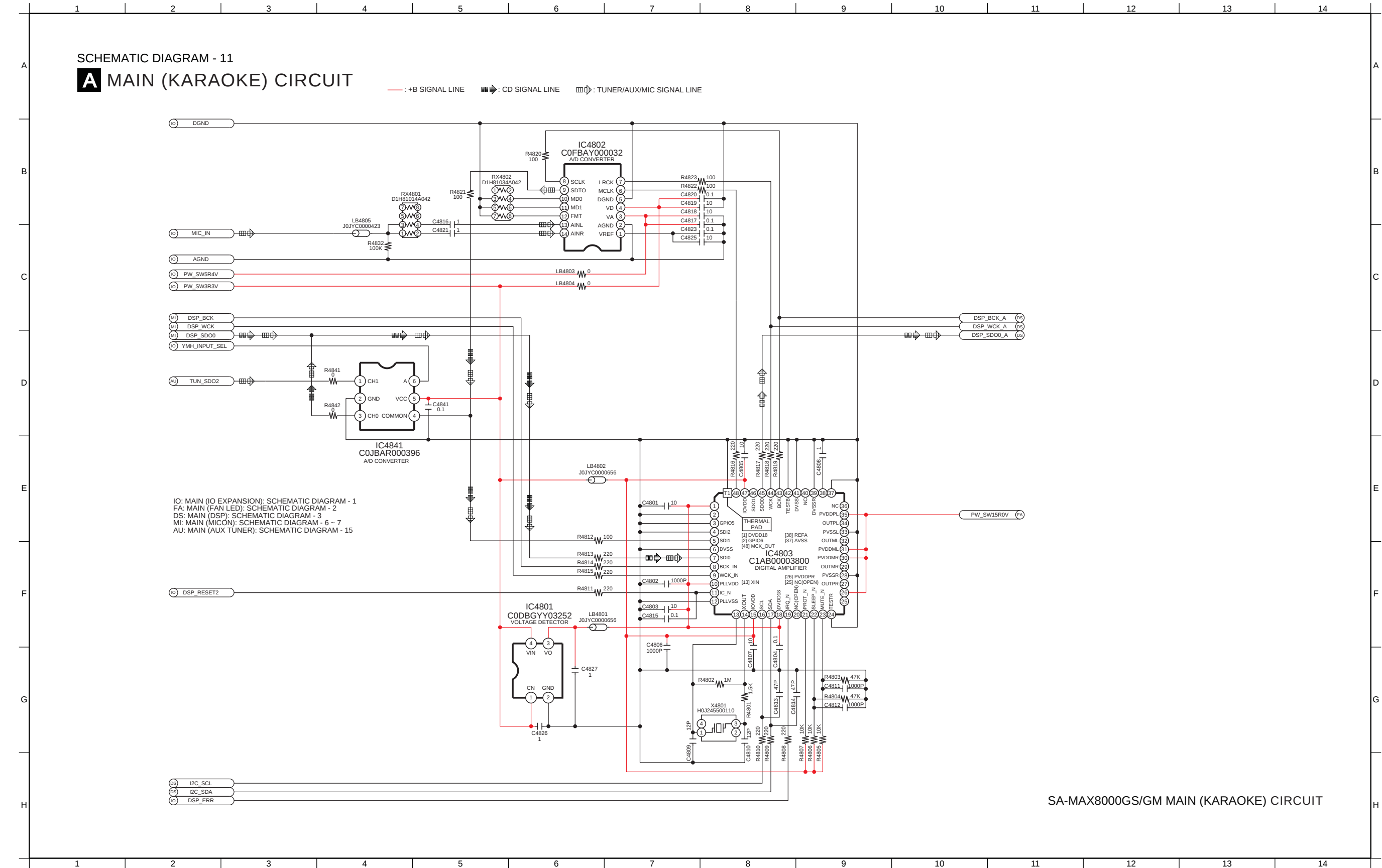
1/2	2/2
-----	-----

 SA-MAX8000GS/GM MAIN (AMP SINGLE) CIRCUIT

6.10. Main (FE) Circuit



6.11. Main (Karaoke) Circuit

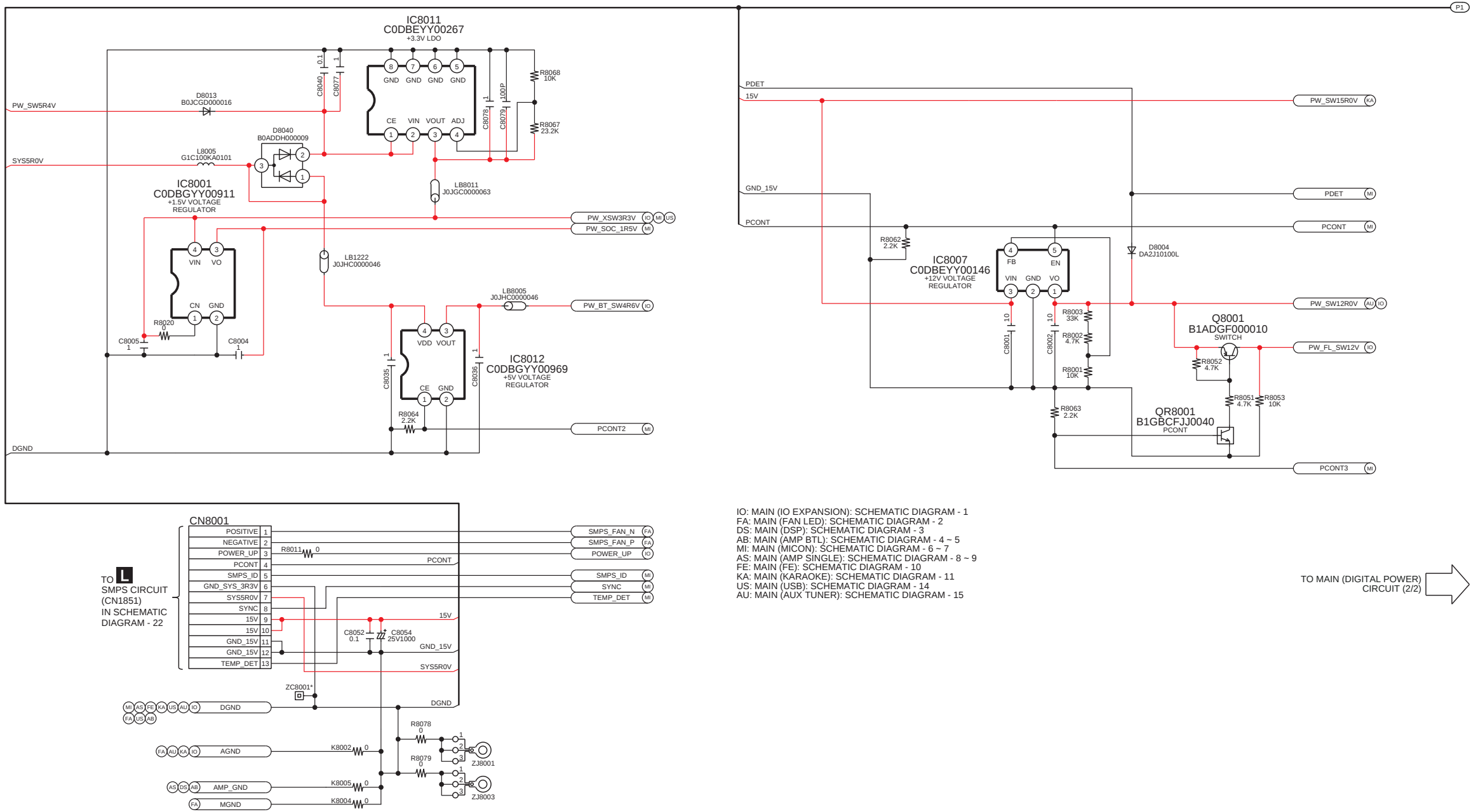


6.12. Main (Digital Power) Circuit (1/2)

SCHEMATIC DIAGRAM - 12

A MAIN (DIGITAL POWER) CIRCUIT

— : +B SIGNAL LINE — : -B SIGNAL LINE

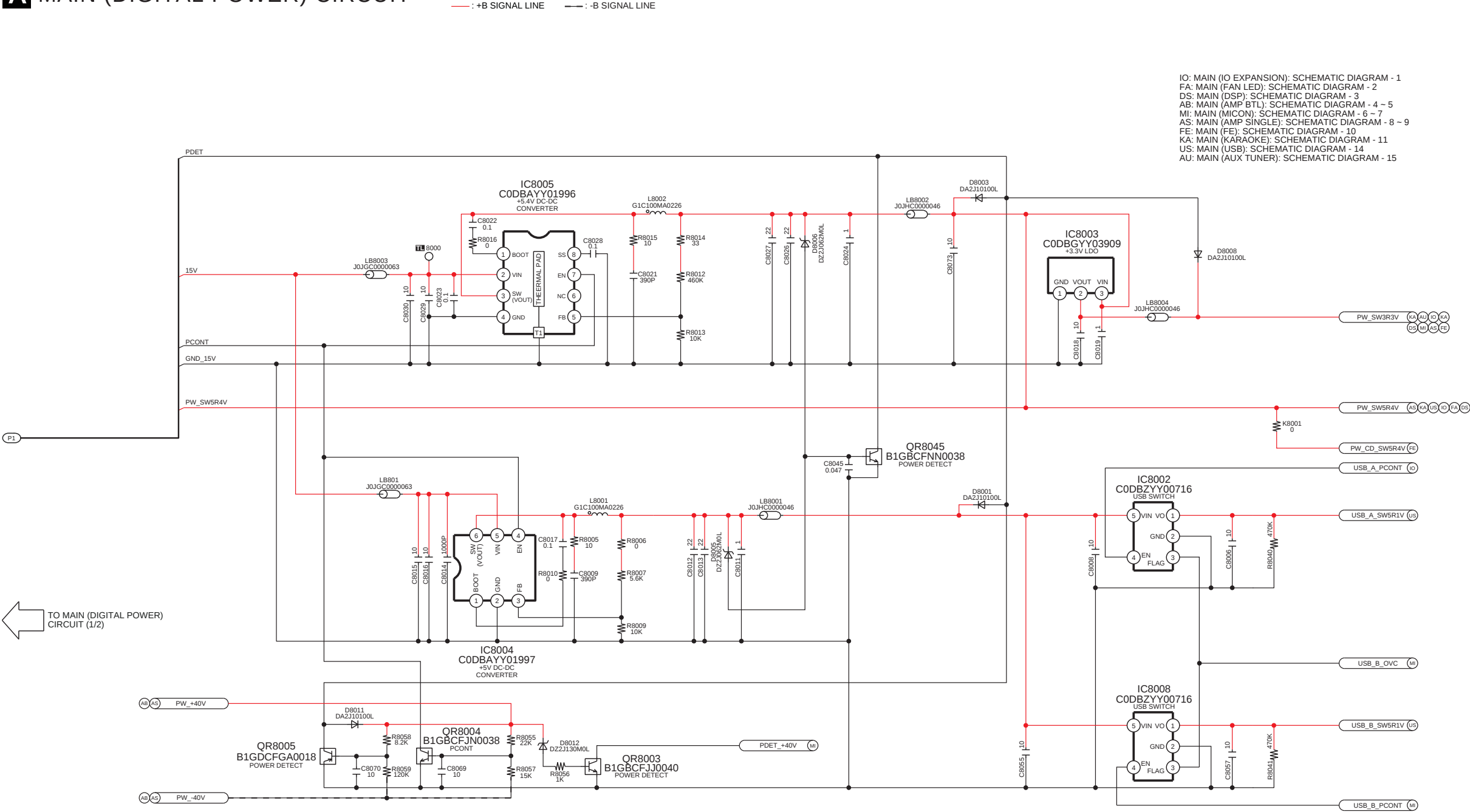


NOTE: " * " REF IS FOR INDICATION ONLY

6.13. Main (Digital Power) Circuit (2/2)

SCHEMATIC DIAGRAM - 13

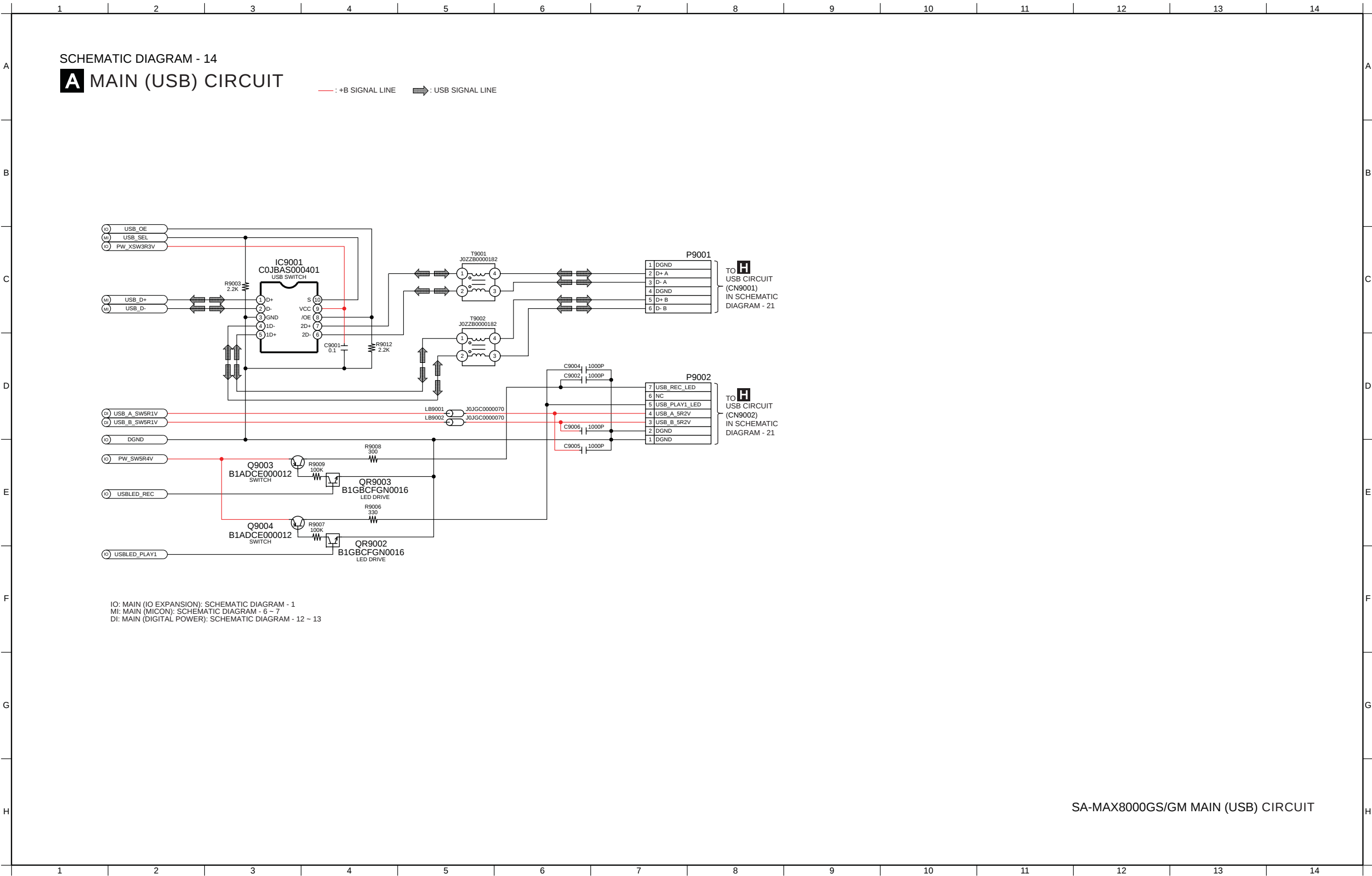
A MAIN (DIGITAL POWER) CIRCUIT



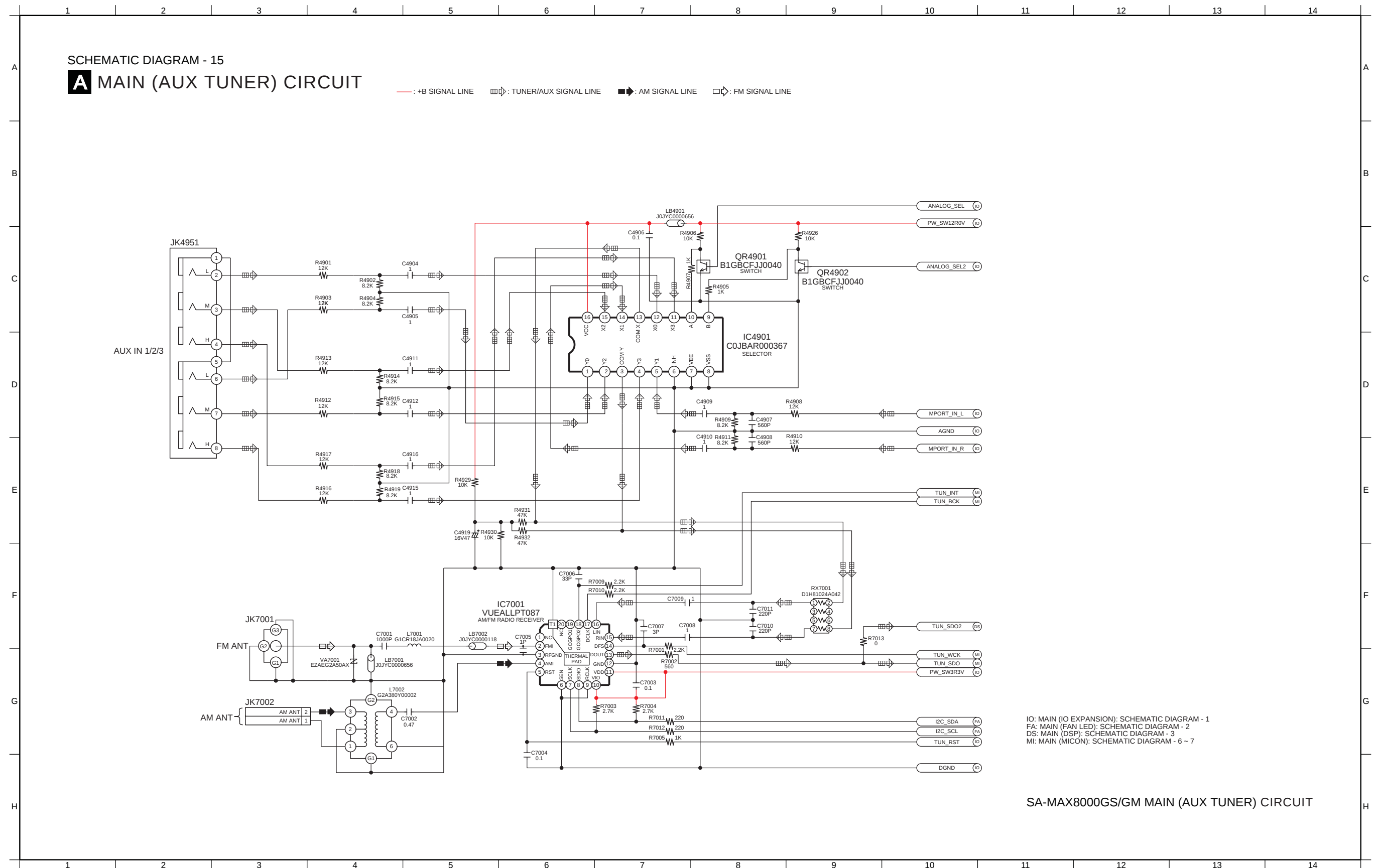
NOTE: " * " REF IS FOR INDICATION ONLY

1/2 2/2 SA-MAX8000GS/GM MAIN (DIGITAL POWER) CIRCUIT

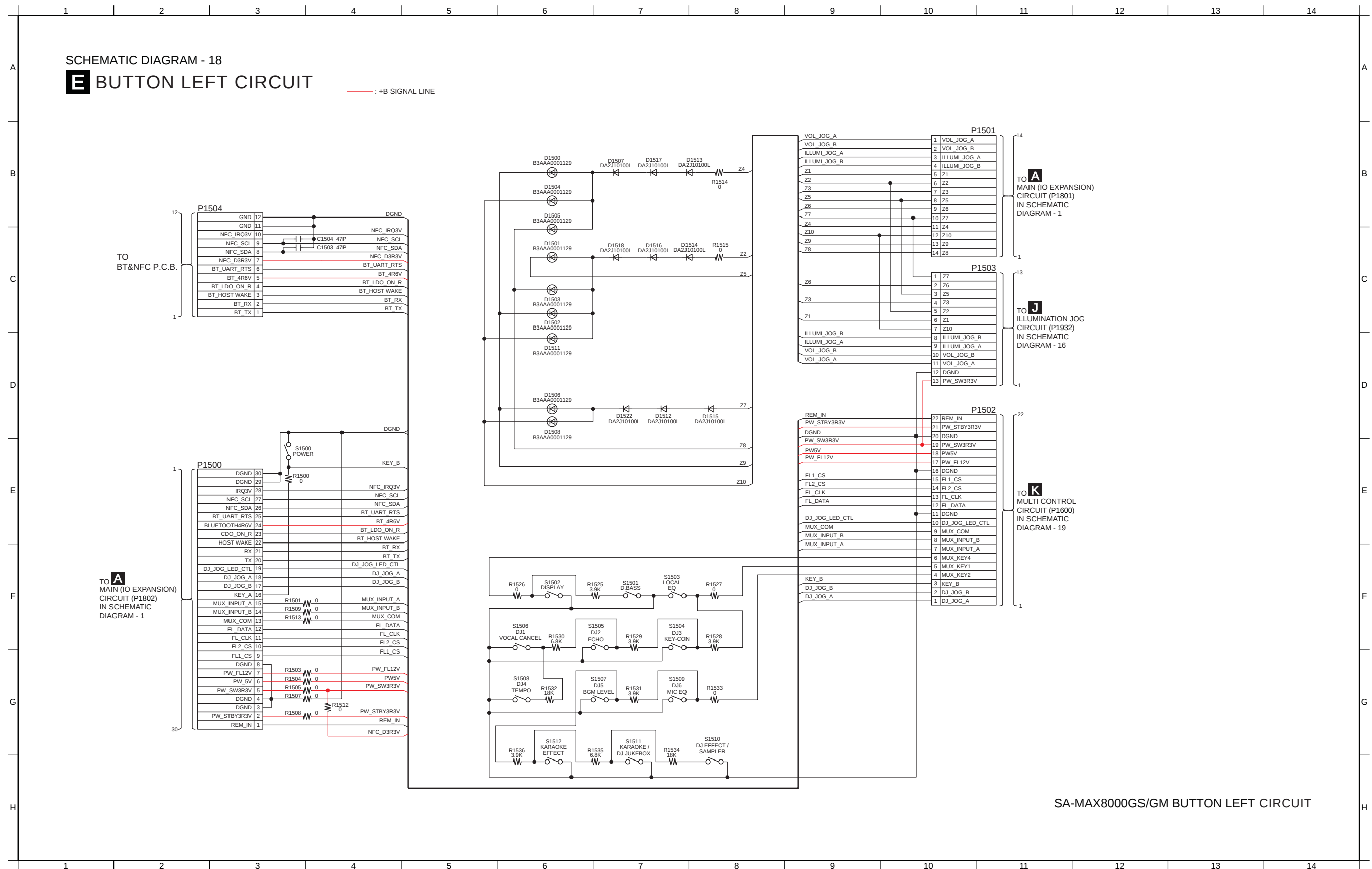
6.14. Main (USB) Circuit



6.15. Main (AUX Tuner) Circuit



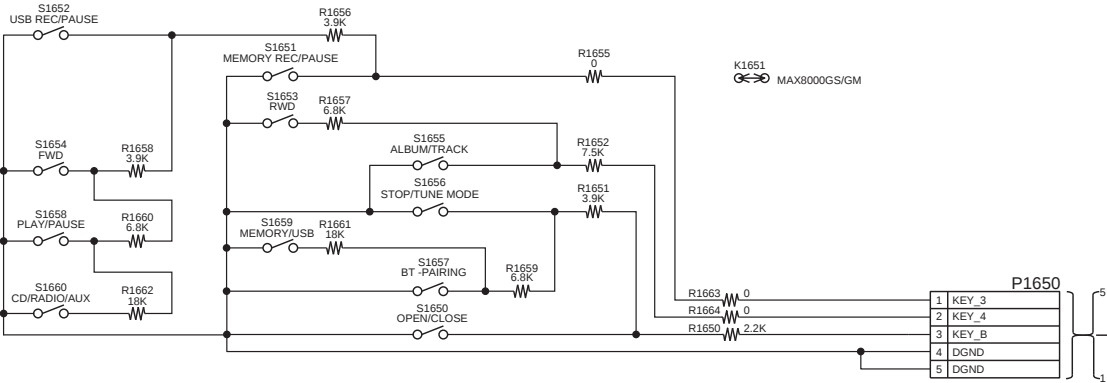
6.16. Button Left Circuit



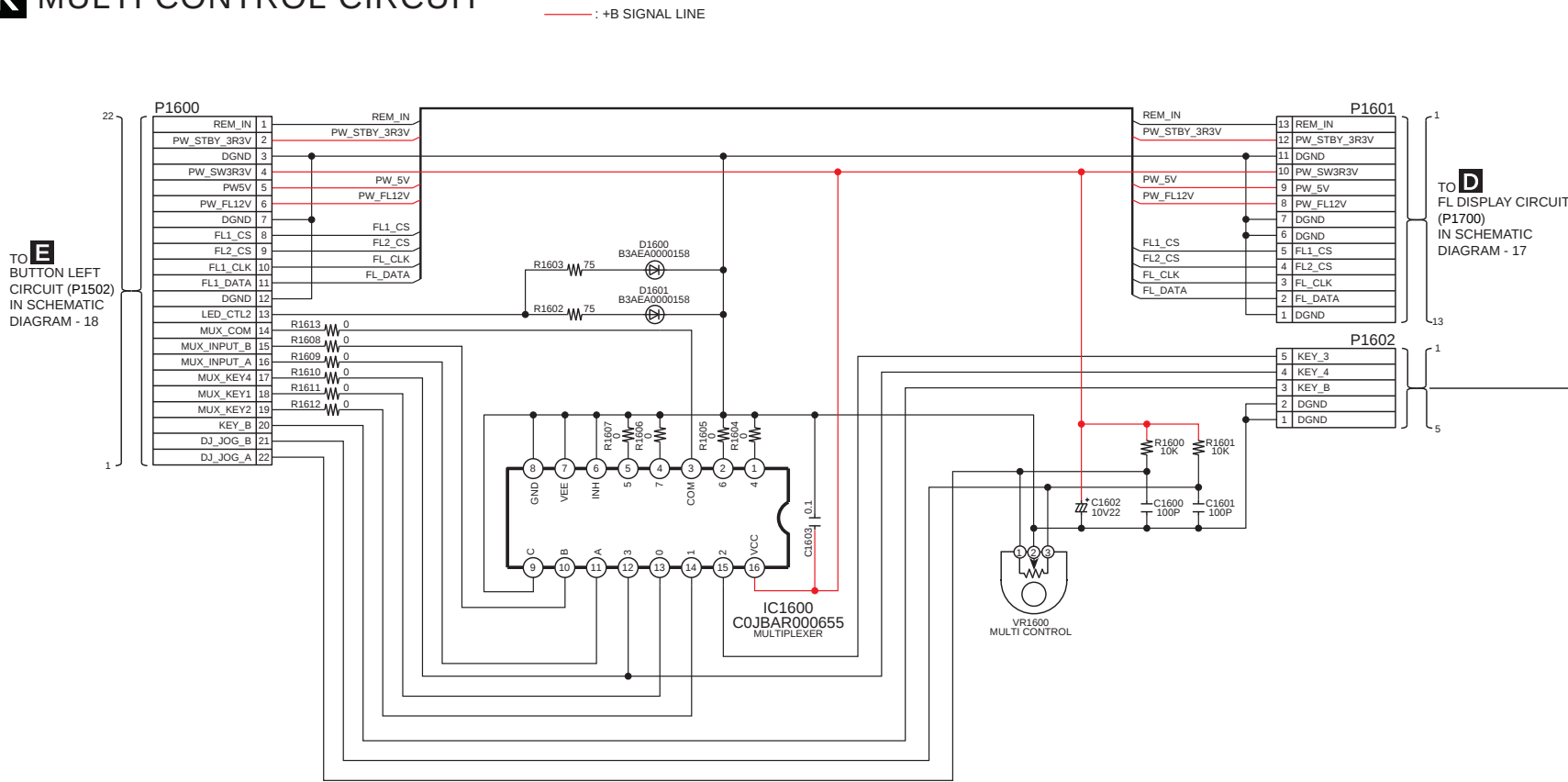
6.17. Button Right and Multi Control Circuit

SCHEMATIC DIAGRAM - 19

F BUTTON RIGHT CIRCUIT

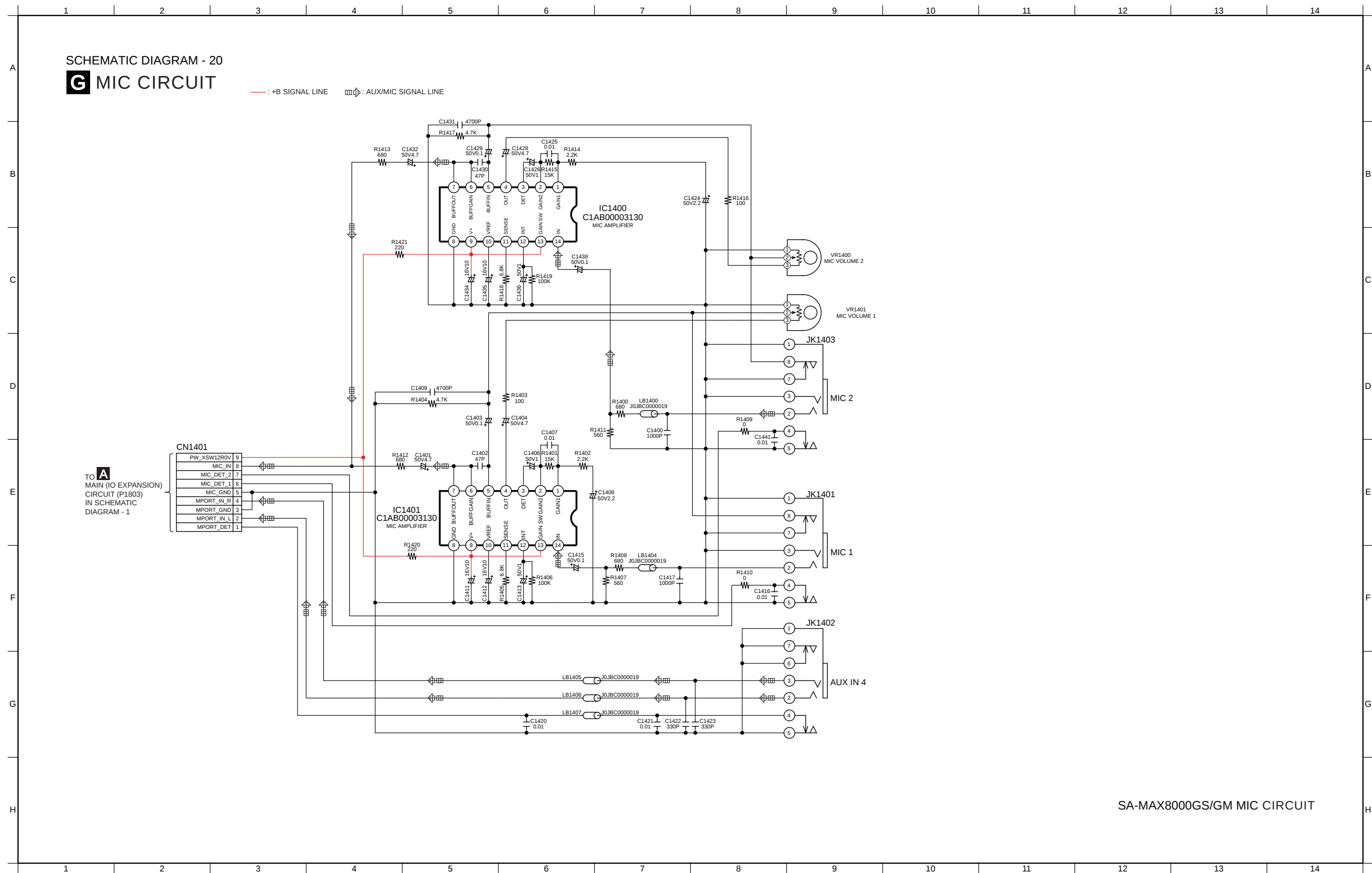


K MULTI CONTROL CIRCUIT



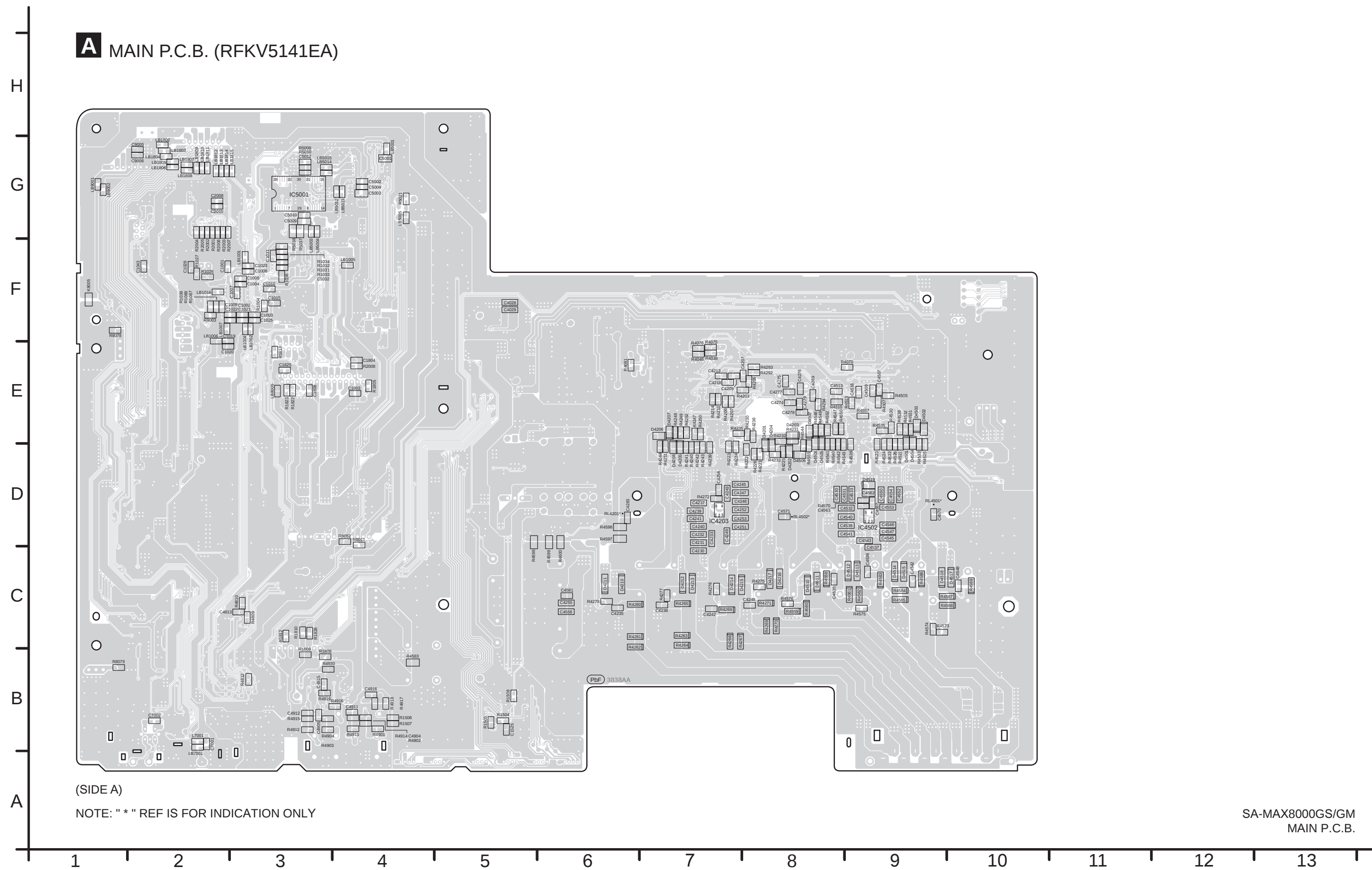
SA-MAX8000GS/GM BUTTON RIGHT / MULTI CONTROL CIRCUIT

6.18. Mic Circuit



7 Printed Circuit Board

7.1. Main P.C.B. (Side A)



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

[illegible]

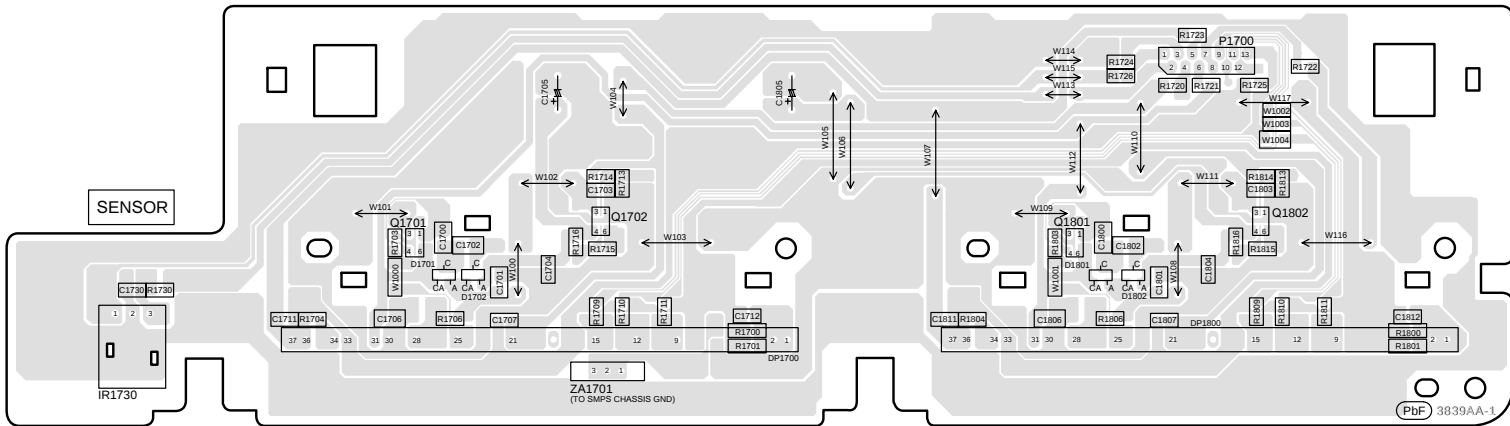
NOTE: " * " REF IS FOR INDICATION ONLY

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

Diagram of the front panel of the P1950 power supply. It shows two circular AC input sockets on the left, a 15A 250V AC input socket in the center, and a 15A 250V AC output socket on the right. The output socket is labeled P1950 and has a rating of 3838AC. The diagram also shows the internal wiring connections for each socket.

D FL DISPLAY P.C.B. (REP5142BA)



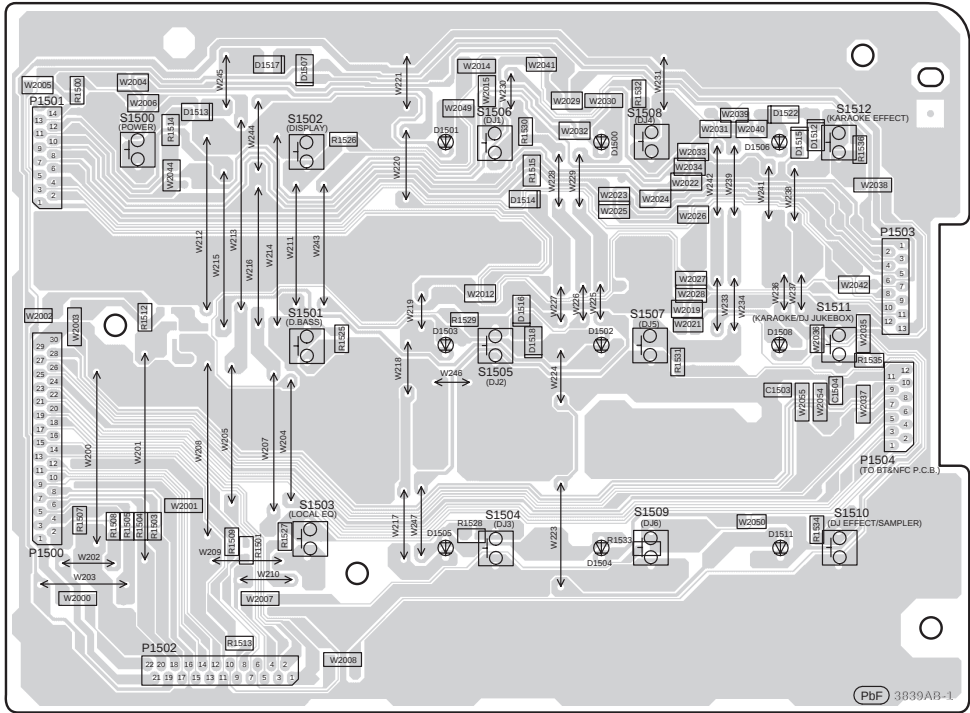
PbF 3838AD

Diagram of the P1980 PCB layout. The layout includes a P1980 component with dimensions 6, 4, 2 and 5, 3, 1. It also shows dimensions D1981, D1982, D1983, D1984, D1985, D1986, and D1987. A circular feature is labeled PbF 3838AD.

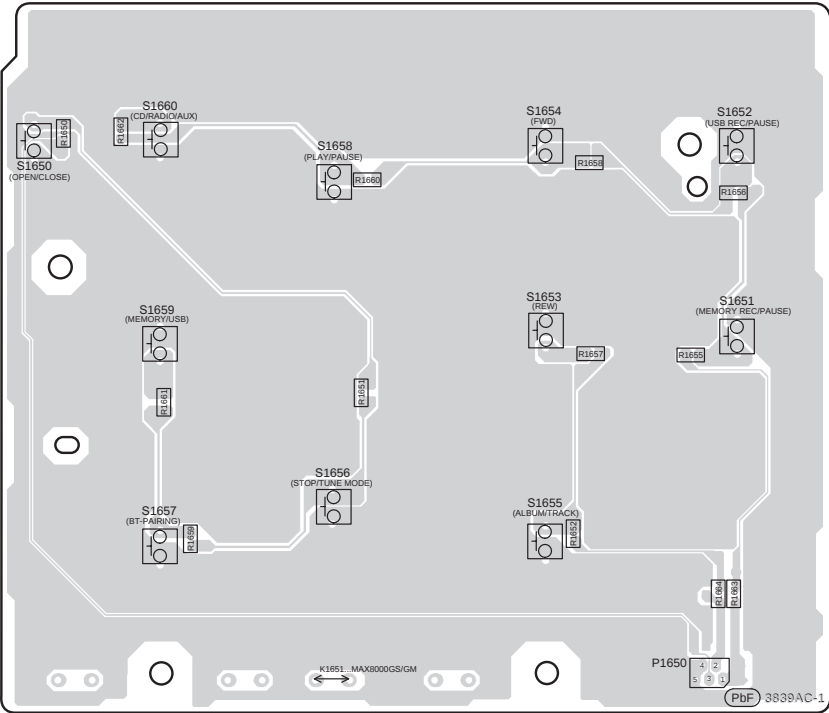
SA-MAX8000GS/GM
ILLUMINATION LEFT / ILLUMINATION RIGHT / FL DISPLAY P.C.B.

7.4. Button Left, Button Right, Mic and USB P.C.B.

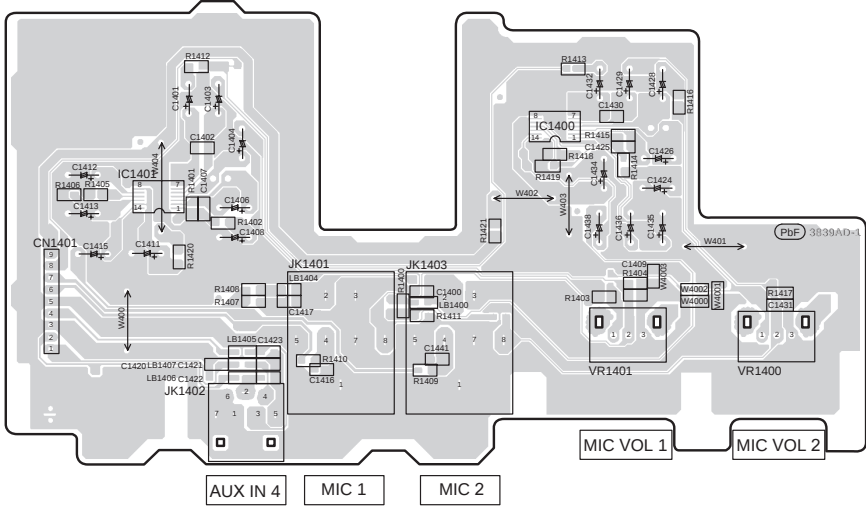
E BUTTON LEFT P.C.B. (REP5142BB)



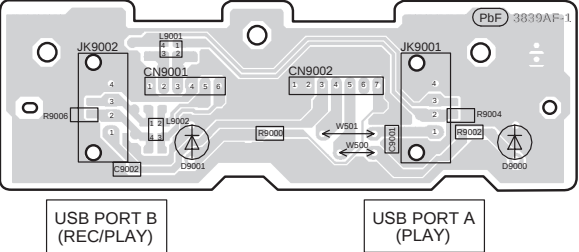
F BUTTON RIGHT P.C.B. (REP5142BC)



G MIC P.C.B. (REP5142BD)



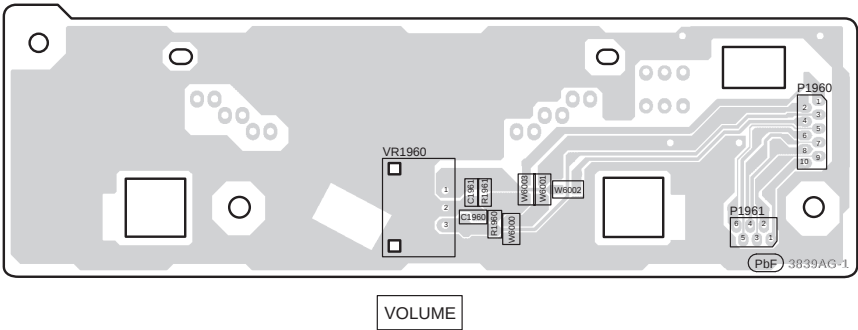
H USB P.C.B. (REP5142BF)



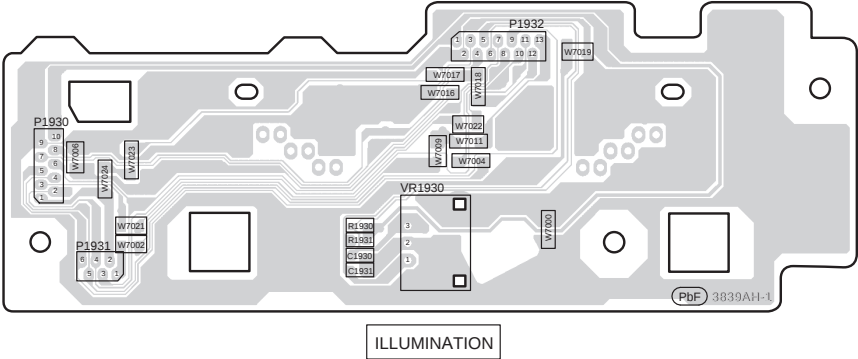
SA-MAX8000GS/GM
BUTTON LEFT / BUTTON RIGHT / MIC / USB P.C.B.

7.5. Volume Jog, Illumination Jog and Multi Control P.C.B.

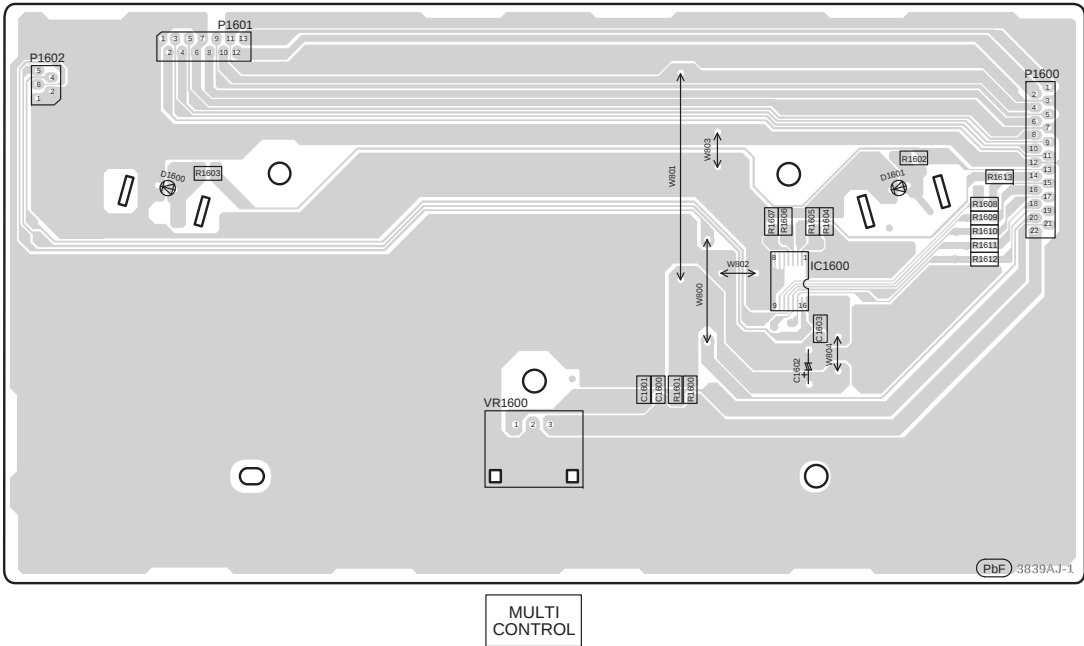
I VOLUME JOG P.C.B. (REP5142BG)



J ILLUMINATION JOG P.C.B. (REP5142BH)

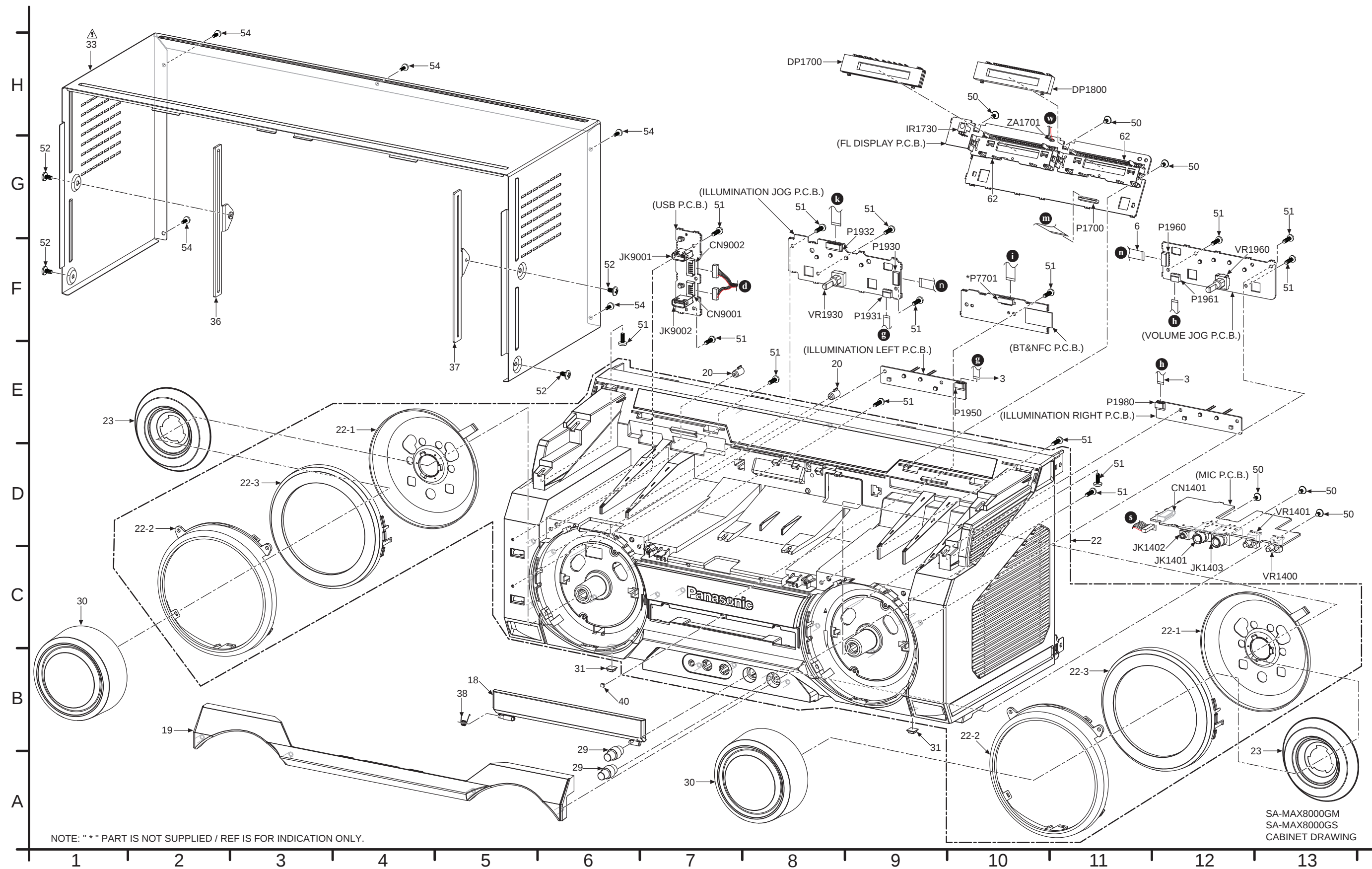


K MULTI CONTROL P.C.B. (REP5142BJ)

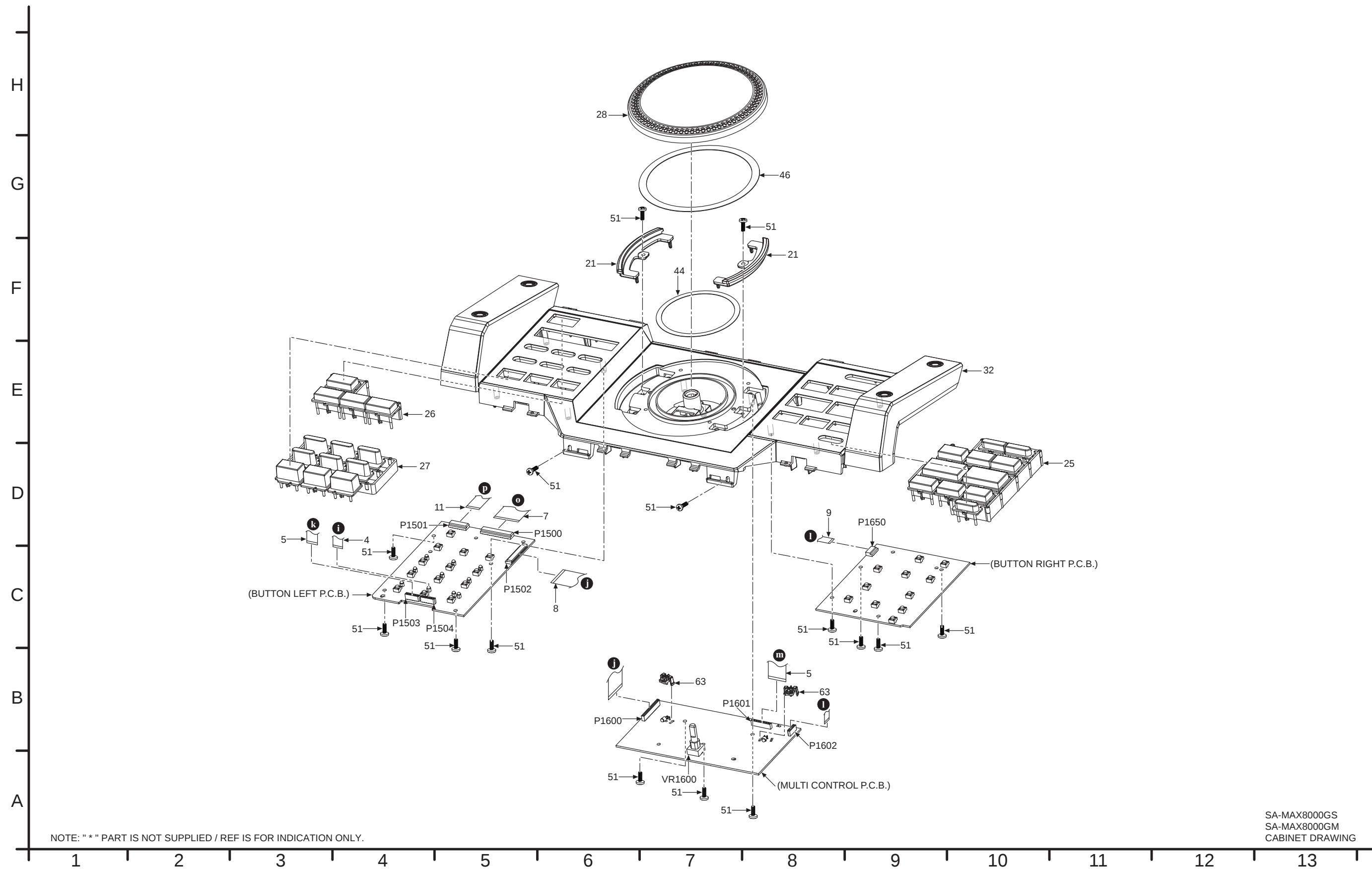


8 Exploded View and Replacement Parts List

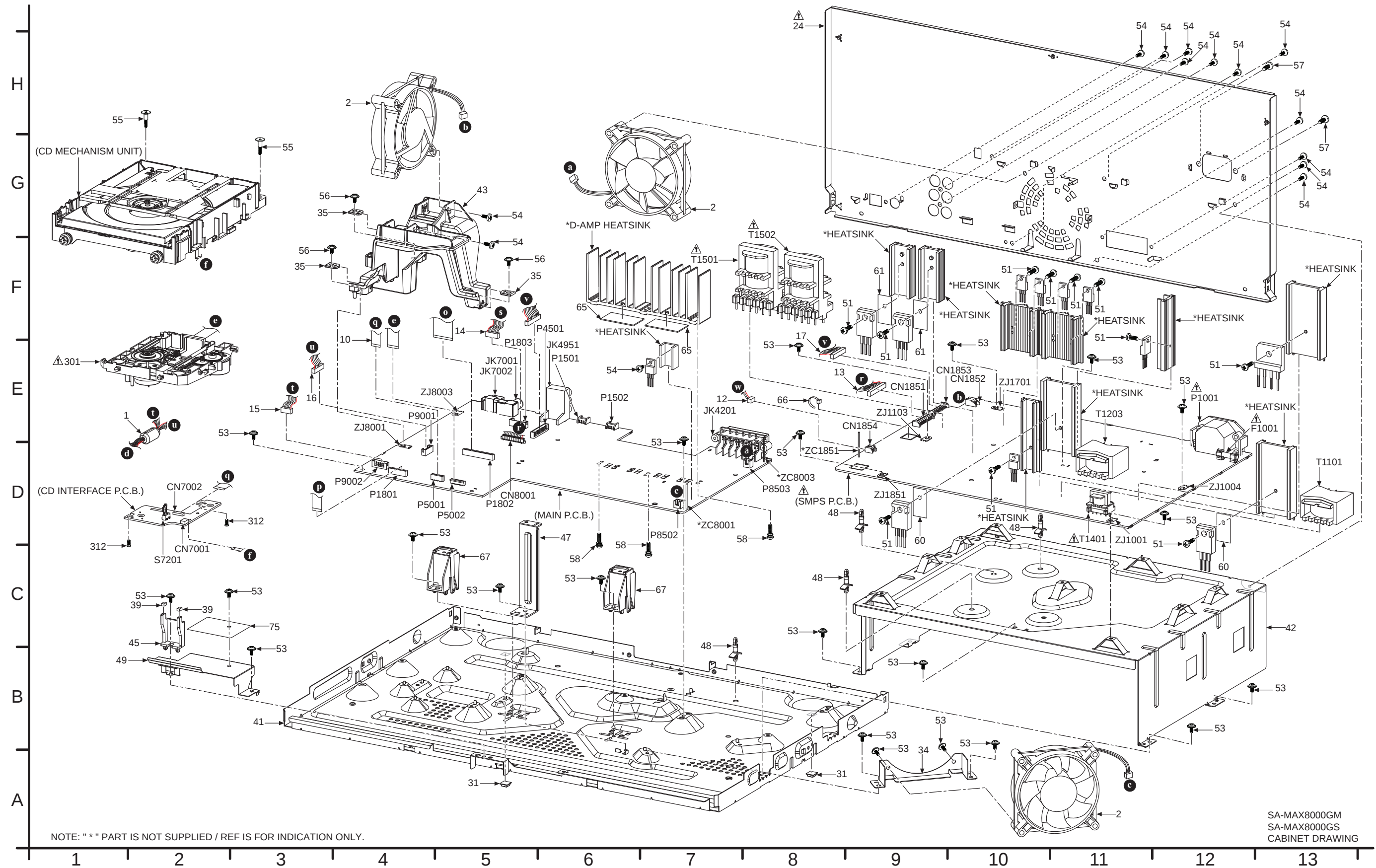
8.1. Cabinet Parts Location 1



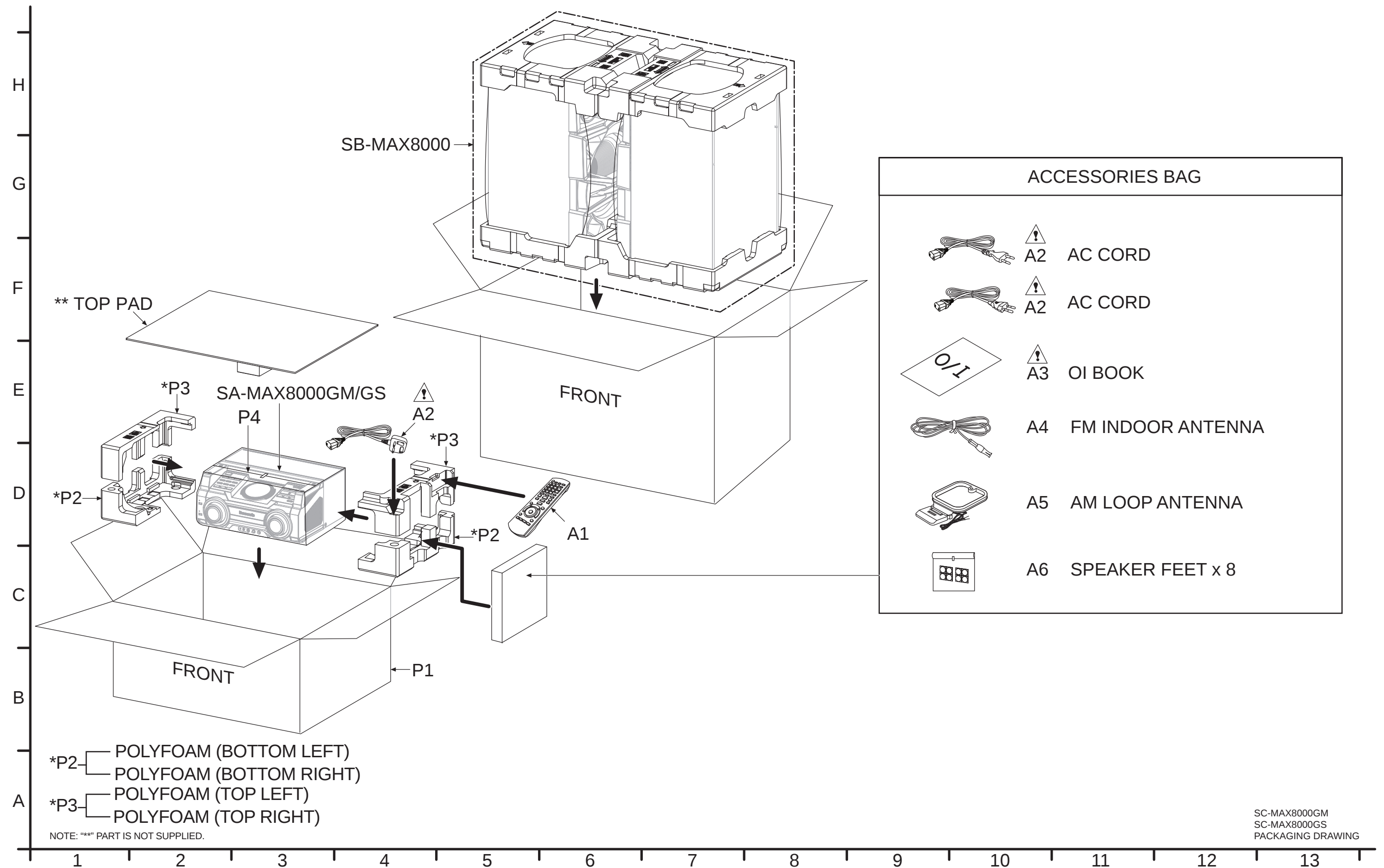
8.2. Cabinet Parts Location 2



8.3. Cabinet Parts Location 3



8.4. Packaging



8.5. 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 PAVCJM unless indicated likewise.
- Reference for O/I book languages are as follows:

Ar:	Arabic	Du:	Dutch	It:	Italian	Sp:	Spanish
Cf:	Canadian French	En:	English	Ko:	Korean	Sw:	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	Fi:	Finnish

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
			CABINET AND CHASSIS		
	1	J0KG00000001	FERRITE CORE	1	
	2	L6FALEFH0030	FAN UNIT	3	
	3	REE1760	6P FFC (ILLUMINATION LEFT-ILLUMINATION JOG/ILLUMINATION RIGHT-VOLUME JOG)	2	
	4	REE1887	12P FFC (BUTTON LEFT-BLUE TOOTH/NFC)	1	
	5	REE1889	16P FFC (MULTI CONTROL - FL DISPLAY/BUTTON LEFT-ILLUMINATION)	2	
	6	REE1894	10P FFC (VOLUME JOG-ILLUMINATION JOG)	1	
	7	REE1898	30P FFC (MAIN-BUTTON LEFT)	1	
	8	REE2053	22P FFC (BUTTON LEFT-MULTI CONTROL)	1	
	9	REE2055	5P FFC (MULTI CONTROL-BUTTON RIGHT)	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	10	REE2060	10P FFC (MAIN-CD INTERFACE)	1	
	11	REE2061	14P FFC (BUTTON LEFT-MAIN)	1	
	12	REX1712	3P WIRE (FL DISPLAY-SMPS)	1	
	13	REX1678	13P WIRE (MAIN-SMPS)	1	
	14	REX1679	9P WIRE (MIC-MAIN)	1	
	15	REX1680	7P WIRE (MAIN-USB)	1	
	16	REX1681	6P WIRE (USB-MAIN)	1	
	17	REX1697	10P WIRE (MAIN-SMPS)	1	
	18	RGK2538-1K	CD LID	1	
	19	RGK2540-1K	TOP ORNAMENT	1	
	20	RGL0787B-W	USB REC LIGHT	2	
	21	RGL0799-Q	DJ LIGHTING RING	2	
	22	RFGAX8000GS	FRONT PANEL ASS'Y	1	
	22-1	RGC0043-W3	VOLUME LIGHT REFLECTOR	2	
	22-2	RGK2539-K	VOLUME ORNAMENT	2	
	22-3	RGL0786B-W	VOLUME LIGHT RING	2	
	23	RGQ0666-W	VOLUME LIGHT DIFFUSER	2	
	24	RGR0455M-A	REAR PANEL	1	
	25	RGU2945B-W2	DJ BUTTON	1	
	26	RGU2946D-K	POWER BUTTON	1	
	27	RGU2947B-K	FUNCTION BUTTON	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	28	RGW0448-K	DJ TABLE	1	
	29	RGW0450-K	MIC VOLUME KNOB	2	
	30	RGW0446-1S	VOLUME KNOB	2	
	31	RKAX0042-K	LEG CUSHION	4	
	32	RFFKAX8000GS	DJ CABINET ASS'Y	1	
△	33	RKM0744-K2	TOP CABINET	1	
	34	RMA2489	FAN ANGLE	1	
	35	RMA2502	EARTH PLATE	3	
	36	RMA2506-1	SIDE ANGLE L	1	
	37	RMA2507-1	SIDE ANGLE R	1	
	38	RMB0982	CD LID SPRING	1	
	39	RMG1002-D	MECHA CUSHION	2	
	40	RMGX0033A-K	CD LID CUSHION	1	
	41	RMK0870-1	BOTTOM CHASSIS	1	
	42	RMK0871-1	INNER CHASSIS	1	
	43	RMN1080-2	FAN HOLDER	1	
	44	RMQ2273	DJ SLIDER SHEET	1	
	45	RMQ2275	FRONT MECHA SUP-PORT	1	
	46	RMQ2352	DJ SHEET	1	
	47	RMS0939	INNER CHASSIS SUPPORT	1	
	48	RMX0510	SMPS PCB SPACER	4	
	49	RSC1293-1	MIC SHIELD PLATE	1	
	50	RHD26016-1L	SCREW	6	
	51	RHD26046-L	SCREW	41	
	52	RHD30007-K2J	SCREW	4	
	53	RHD30111-31	SCREW	22	
	54	RHD30119-S	SCREW	19	
	55	RHDX031008	SCREW	2	
	56	RHDX30005-J	SCREW	3	
	57	XTB4+10AFJ	SCREW	2	
	58	RHD26043-1	SCREW	3	
	60	RMZ1495	SMPS INSULATOR SHEET	2	
	61	RMZ1430	SMPS IC INSULATOR SHEET	2	
	62	RMN1049-1	FL HOLDER	2	
	63	RMN1077	LED HOLDER	2	
	65	RMG0982-H	RADIATION RUBBER	2	
	66	SHR301-J	LEAD CLAMPER	1	
	67	RMQX1088-J	MECHA SUPPORT	2	
	75	RMA2515	SILICON STEEL PLATE	1	
			TRAVERSE DECK		
△	301	RAE1048Z-V	TRAVERSE ASS'Y	1	
	313	REEX1229-J	FFC WIRE	1	
			PACKING MATERIALS		
	P1	RPG0Q32-1	PACKING CASE	1	
	P2	RPN2650-2	POLYFOAM BOTTOM	1	
	P3	RPN2651-2	POLYFOAM TOP	1	
	P4	RPH0317	MIRAMAT SHEET	1	
			ACCESSORIES		
	A1	N2QAYB001022	REMOTE CONTROL	1	
△	A2	K2CP2YY00071	AC CORD	1	
△	A2	K2CQ2YY00127	AC CORD	1	
△	A2	K2CT2YY00103	AC CORD	1	
△	A3	RQT9979-Z	O/I BOOK (En,Cn,Ar)	1	
	A4	RSAX0002	FM INDOOR ANTENNA	1	
	A5	N1DY0000011	AM LOOP ANTENNA	1	
	A6	RKAX0038B	SPEAKER FEET	8	

8.6. Electrical Replacement Part List

Important Safety Notice

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

RTL (Retention Time Limited)

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

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

Note:

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

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

Safety	Ref. No.	Parts No.		Parts name & Description	Qty	Remarks
		SA-MAX8000GN	SA-MAX8000GM/GS			
	PCB1	RFKV5141DA	RFKV5141EA	MAIN P.C.B W/DATA	1	(E.S.D), JIGS & ADJ
	PCB3	RFKV5141DA	RFKV5141EA	BT&NFC P.C.B	1	(E.S.D), JIGS & ADJ
	PCB4	REP5141DC	REP5141EC	ILLUMINATION LEFT P.C.B	1	(RTL)
	PCB5	REP5141DD	REP5141ED	ILLUMINATION RIGHT P.C.B	1	(RTL)
	PCB6	REP5142AA	REP5142BA	FL DISPLAY P.C.B	1	(RTL)
	PCB7	REP5142AB	REP5142BB	BUTTON LEFT P.C.B	1	(RTL)
	PCB8	REP5142AC	REP5142BC	BUTTON RIGHT P.C.B	1	(RTL)
	PCB9	REP5142AD	REP5142BD	MIC P.C.B	1	(RTL)
	PCB10	REP5142AF	REP5142BF	USB P.C.B	1	(RTL)
	PCB11	REP5142AG	REP5142BG	VOLUME JOG P.C.B	1	(RTL)
	PCB12	REP5142AH	REP5142BH	ILLUMINATION JOG P.C.B	1	(RTL)
	PCB13	REP5142AJ	REP5142BJ	MULTI CONTROL P.C.B	1	(RTL)
	IC1400	-	C1AB00003130	IC	1	(E.S.D)
	IC2001	RFKV5141DA	RFKV5141EA	IC	1	(E.S.D), JIGS & ADJ
	IC4801	-	C0DBGY03252	IC	1	(E.S.D)
	IC4803	-	C1AB00003800	IC	1	(E.S.D)
	IC4841	-	C0JBAR000396	IC	1	(E.S.D)
	VR1400	-	EVUE27FK2B53	MIC VOL 2	1	
	CN7001	K1MY05BA0539	K1MY05BA0565	5P CONNECTOR	1	
	L4201	G0C100M00009	G0C100M00013	INDUCTOR	1	
	L4202	G0C100M00009	G0C100M00013	INDUCTOR	1	
	L4506	G0C100M00009	G0C100M00013	INDUCTOR	1	
	LB1400	-	J0JBC0000019	INDUCTOR	1	
	LB4801	-	J0JYC0000656	INDUCTOR	1	
	LB4802	-	J0JYC0000656	INDUCTOR	1	
	X4801	-	H0J245500110	OSCILLATOR	1	
	JK1401	-	K2HB107B0001	JK MIC 1	1	
	JK4951	-	K2HA208B0006	JK AUX IN	1	
	JK4952	K2HA2YYA0006	-	JK AUX IN	1	
	W75	-	ERJ6GEY0R00V	0 1/8W	1	
	W2050	ERJ3GEY0R00V	D0GBR00J0004	0 1/10W	1	
	W7002	ERJ6GEY0R00V	D0GDR00J0004	0 1/8W	1	
	W7021	ERJ6GEY0R00V	D0GDR00J0004	0 1/8W	1	

Safety	Ref. No.	Parts No.		Parts name & Description	Qty	Remarks
		SA-MAX8000GN	SA-MAX8000GM/GS			
	W7022	ERJ6GEY0R00V	D0GDR00J0004	0 1/8W	1	
	W7023	ERJ8GEY0R00V	D0GFR00J0005	0 1/4W	1	
	W7024	ERJ8GEY0R00V	D0GFR00J0005	0 1/4W	1	
	K1400	D0GBR00J0004	-	0 1/10W	1	
	K1401	D0GDR00J0004	-	0 1/8W	1	
	K1402	D0GBR00J0004	-	0 1/10W	1	
	R1010	D0GA221JA023	-	220 1/16W	1	
	R1033	D0GB393JA065	D0GB203JA065	20K 1/10W	1	
	R1154	-	D0GBR00J0004	0 1/10W	1	
	R1155	D0GBR00J0004	-	0 1/10W	1	
	R1213	-	D0GBR00J0004	0 1/10W	1	
	R1214	-	D0GBR00J0004	0 1/10W	1	
	R1225	-	D0GBR00J0004	0 1/10W	1	
	R1225	-	D0GD103JA052	10K 1/8W	1	
	R1400	-	D0GB681JA065	680 1/10W	1	
	R1410	-	D0GBR00J0004	0 1/10W	1	
	R1411	-	D0GB153JA065	15K 1/10W	1	
	R1411	-	D0GB561JA065	560 1/10W	1	
	R1413	-	D0GB681JA065	680 1/10W	1	
	R1413	-	D0GD102JA052	1K 1/8W	1	
	R1414	-	D0GB222JA065	2.2K 1/10W	1	
	R1414	-	D0GD103JA052	10K 1/8W	1	
	R1415	-	D0GB153JA065	15K 1/10W	1	
	R1415	-	D0GZ104JA012	100K 1W	1	
	R1416	-	D0GB101JA065	100 1/10W	1	
	R1416	-	D0GD331JA052	330 1/8W	1	
	R1417	-	D0GB472JA065	4.7K 1/10W	1	
	R1417	-	D0GF224JA048	220K 1/4W	1	
	R1418	-	D0GB682JA065	6.8K 1/10W	1	
	R1418	-	D0GF224JA048	220K 1/4W	1	
	R1419	-	D0GB104JA065	100K 1/10W	1	
	R1419	-	D0GD220JA052	22 1/8W	1	
	R1421	-	D0GB221JA065	220 1/10W	1	
	R1508	-	D0GBR00J0004	0 1/10W	1	
	R1508	ERJ14YJ4R7U	ERJ14YJ220U	22 1/2W	1	
	R1509	-	D0GBR00J0004	0 1/10W	1	
	R1509	ERJ14YJ4R7U	ERJ14YJ220U	22 1/2W	1	
	R4074	D0GB101JA065	-	100 1/10W	1	
	R4077	D0GB101JA065	-	100 1/10W	1	
	R4801	-	D0GB152JA065	1.5K 1/10W	1	
	R4802	-	D0GB105JA065	1M 1/10W	1	
	R4803	-	D0GB473JA065	47K 1/10W	1	
	R4804	-	D0GB473JA065	47K 1/10W	1	
	R4805	-	D0GB103JA065	10K 1/10W	1	
	R4806	-	D0GB103JA065	10K 1/10W	1	
	R4807	-	D0GB103JA065	10K 1/10W	1	
	R4808	-	D0GB221JA065	220 1/10W	1	
	R4809	-	D0GB221JA065	220 1/10W	1	
	R4810	-	D0GB221JA065	220 1/10W	1	
	R4811	-	D0GB221JA065	220 1/10W	1	
	R4812	-	D0GB101JA065	100 1/10W	1	
	R4813	-	D0GB221JA065	220 1/10W	1	
	R4814	-	D0GB221JA065	220 1/10W	1	
	R4815	-	D0GB221JA065	220 1/10W	1	
	R4816	-	D0GB221JA065	220 1/10W	1	
	R4817	-	D0GB221JA065	220 1/10W	1	
	R4818	-	D0GB221JA065	220 1/10W	1	
	R4819	-	D0GB221JA065	220 1/10W	1	
	R4821	-	D0GB101JA065	100 1/10W	1	
	R4829	D0GBR00J0004	-	0 1/10W	1	
	R4830	D0GBR00J0004	-	0 1/10W	1	
	R4831	D0GBR00J0004	-	0 1/10W	1	
	R4834	D0GBR00J0004	-	0 1/10W	1	
	R4835	D0GB101JA065	-	100 1/10W	1	
	R4836	D0GBR00J0004	-	0 1/10W	1	
	R4841	-	D0GBR00J0004	0 1/10W	1	
	R4842	-	D0GBR00J0004	0 1/10W	1	
	R4912	-	D0GB123JA065	12K 1/10W	1	
	R4913	-	D0GB123JA065	12K 1/10W	1	
	R4914	-	D0GB822JA065	8.2K 1/10W	1	
	R4915	-	D0GB822JA065	8.2K 1/10W	1	
	R4916	-	D0GB123JA065	12K 1/10W	1	
	R4917	-	D0GB123JA065	12K 1/10W	1	

Safety	Ref. No.	Parts No.		Parts name & Description	Qty	Remarks
		SA-MAX8000GN	SA-MAX8000GM/GS			
	R4918	-	D0GB822JA065	8.2K 1/10W	1	
	R4919	-	D0GB822JA065	8.2K 1/10W	1	
	C1400	-	F1H1H102B047	1000pF 50V	1	
	C1416	-	F1H1H103B047	0.01uF 50V	1	
	C1418	F1H1H103B047	-	0.01uF 50V	1	
	C1419	F1H1H103B047	-	0.01uF 50V	1	
	C1424	-	F2A1H2R20071	2.2uF 50V	1	
	C1425	-	F1H1H103B047	0.01uF 50V	1	
	C1426	-	F2A1H1R0A213	1.0uF 50V	1	
	C1428	-	F2A1H4R7A218	4.7uF 50V	1	
	C1429	-	F2A1HR10A015	0.10uF 50V	1	
	C1430	-	F1H1H470B052	47pF 50V	1	
	C1431	-	F1H1H472B047	4700pF 50V	1	
	C1432	-	F2A1H4R7A213	4.7uF 50V	1	
	C1434	-	F2A1C100A207	10uF 16V	1	
	C1435	-	F2A1C1000096	10uF 16V	1	
	C1436	-	F2A1H1R0A213	1.0uF 50V	1	
	C1438	-	F2A1HR10A015	0.10uF 50V	1	
	C4020	-	F1J1A106A024	10uF 10V	1	
	C4066	-	F1H1H102B047	1000pF 50V	1	
	C4067	-	F1H1H102B047	1000pF 50V	1	
	C4801	-	F1H0J1060006	10uF 6.3V	1	
	C4802	-	F1H1H102B047	1000pF 50V	1	
	C4803	-	F1H0J1060006	10uF 6.3V	1	
	C4804	-	F1H1H104B047	0.1uF 50V	1	
	C4805	-	F1H0J1060006	10uF 6.3V	1	
	C4806	-	F1H1H102B047	1000pF 50V	1	
	C4807	-	F1H0J1060006	10uF 6.3V	1	
	C4808	-	F1H1H105B027	1uF 50V	1	
	C4809	-	F1H1H1200004	12pF 50V	1	
	C4810	-	F1H1H1200004	12pF 50V	1	
	C4811	-	F1H1H102B047	1000pF 50V	1	
	C4812	-	F1H1H102B047	1000pF 50V	1	
	C4813	-	F1H1H470B052	47pF 50V	1	
	C4814	-	F1H1H470B052	47pF 50V	1	
	C4815	-	F1H1H104B047	0.1uF 50V	1	
	C4817	-	F1H1H104B047	0.1uF 50V	1	
	C4826	-	F1H1H105B027	1uF 50V	1	
	C4827	-	F1H1H105B027	1uF 50V	1	
	C4841	-	F1H1H104B047	0.1uF 50V	1	
	C4911	-	F1H1H105B027	1uF 50V	1	
	C4912	-	F1H1H105B027	1uF 50V	1	
	C4915	-	F1H1A1050039	1uF 10V	1	
	C4916	-	F1H1A1050039	1uF 10V	1	

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