PSG1506001AE

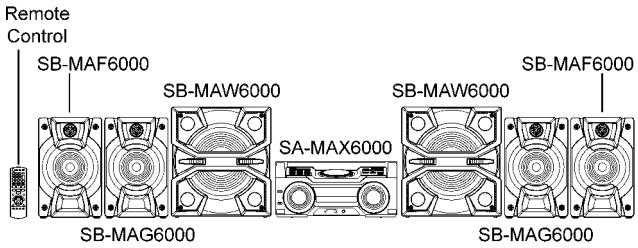
Service Manual

CD Stereo System

Simplified

Model No. SA-MAX6000GM
SA-MAX6000GS

Product Color: (K)...Black Type



Notes: Please use this manual together with service manual Model No.(SA-MAX6000PU), Order no. (PSG1504009CE).
• CD Mechanism Unit, Order No. PSG1303059AE
• Speaker system SB-MAX6000GS, Order No: PSG1504008CE

⚠ 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-MAX6000PU. Please refer to the original service manual, SA-MAX6000PU (Order No. PSG1504009CE) for the below mention contents.

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

2 Safety Precautions

2.1. Before Repair and Adjustment

Disconnect AC power to discharge AC Capacitors (C1001, C1002, C1003, C1004, C1006, C1518) through a 10 Ω, 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 ~ 850mA.

2.2. 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	RGR0455K-A1	REAR PANEL	
⚠	33	RKM0744-K2	TOP CABINET	
⚠	301	RAE1048Z-V	TRAVERSE ASS'Y	(E.S.D)
⚠	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)
⚠	Q1403	B3PBA0000579	PHOTO COUPLER	(E.S.D)
⚠	Q1404	B3PBA0000579	PHOTO COUPLER	(E.S.D)
⚠	Q1405	B3PBA0000579	PHOTO COUPLER	(E.S.D)
⚠	Q1505	B3PBA0000579	PHOTO COUPLER	(E.S.D)
⚠	DZ1001	D4EAY511A127	VARISTOR	(E.S.D)
⚠	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 Specifications

■ Amplifier section

RMS output power stereo mode

Front Ch	350 W per channel (3 Ω), 1 kHz, 30% THD
Front Ch	350 W per channel (3 Ω), 1 kHz, 30% THD
Subwoofer Ch	725 W per channel (6 Ω), 100 Hz, 30% THD
Total RMS stereo mode power	2850 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)

■ Buetooth® 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) (With “BLUETOOTH STANDBY” set to “ON”)	0.5 W

Note:

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

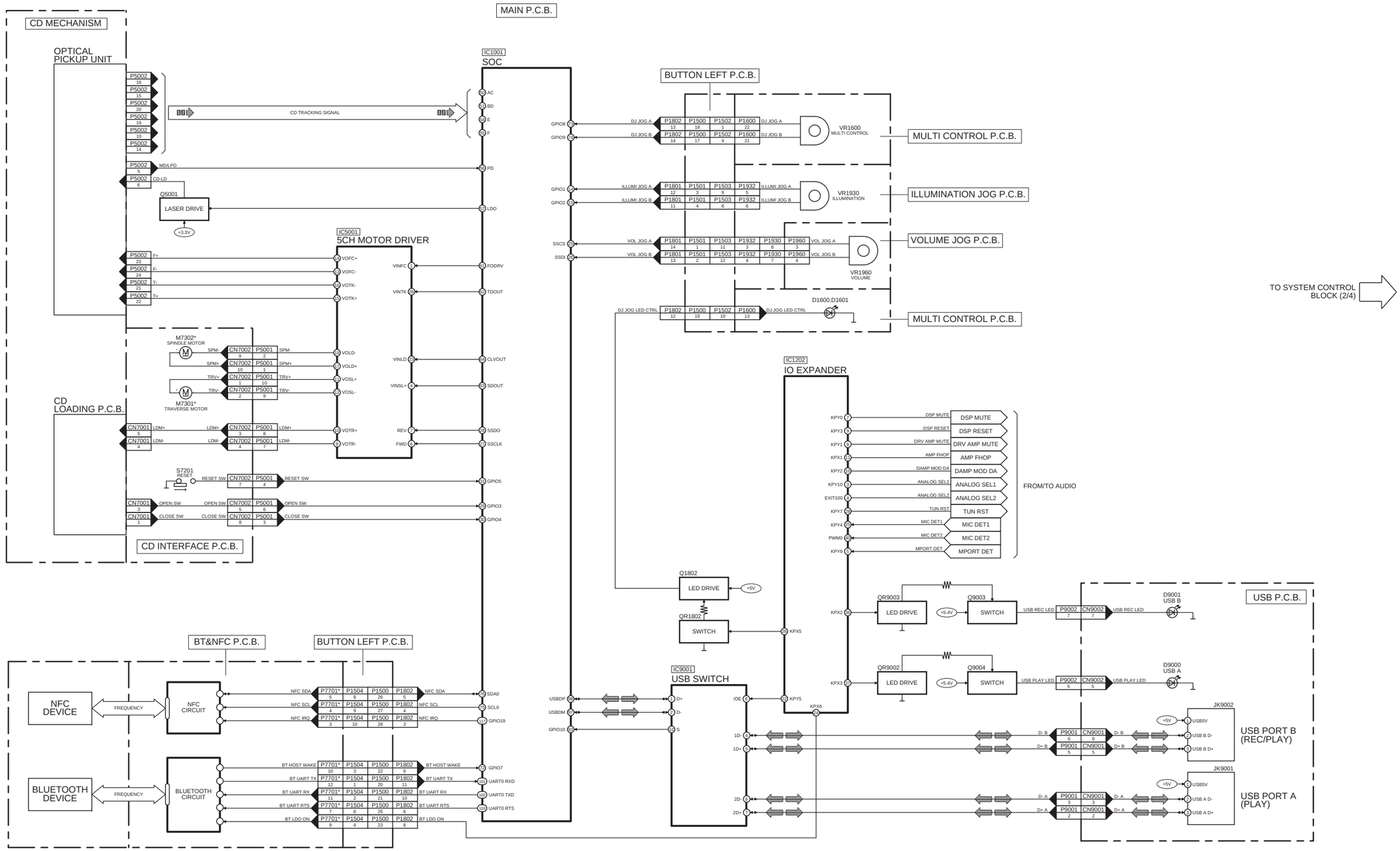
■ System: SC-MAX6000GM
Main Unit: SA-MAX6000GM
Speaker System: SB-MAX6000GS

■ System: SC-MAX6000GS
Main Unit: SA-MAX6000GS
Speaker System: SB-MAX6000GS

4 Block Diagram

4.1. System Control

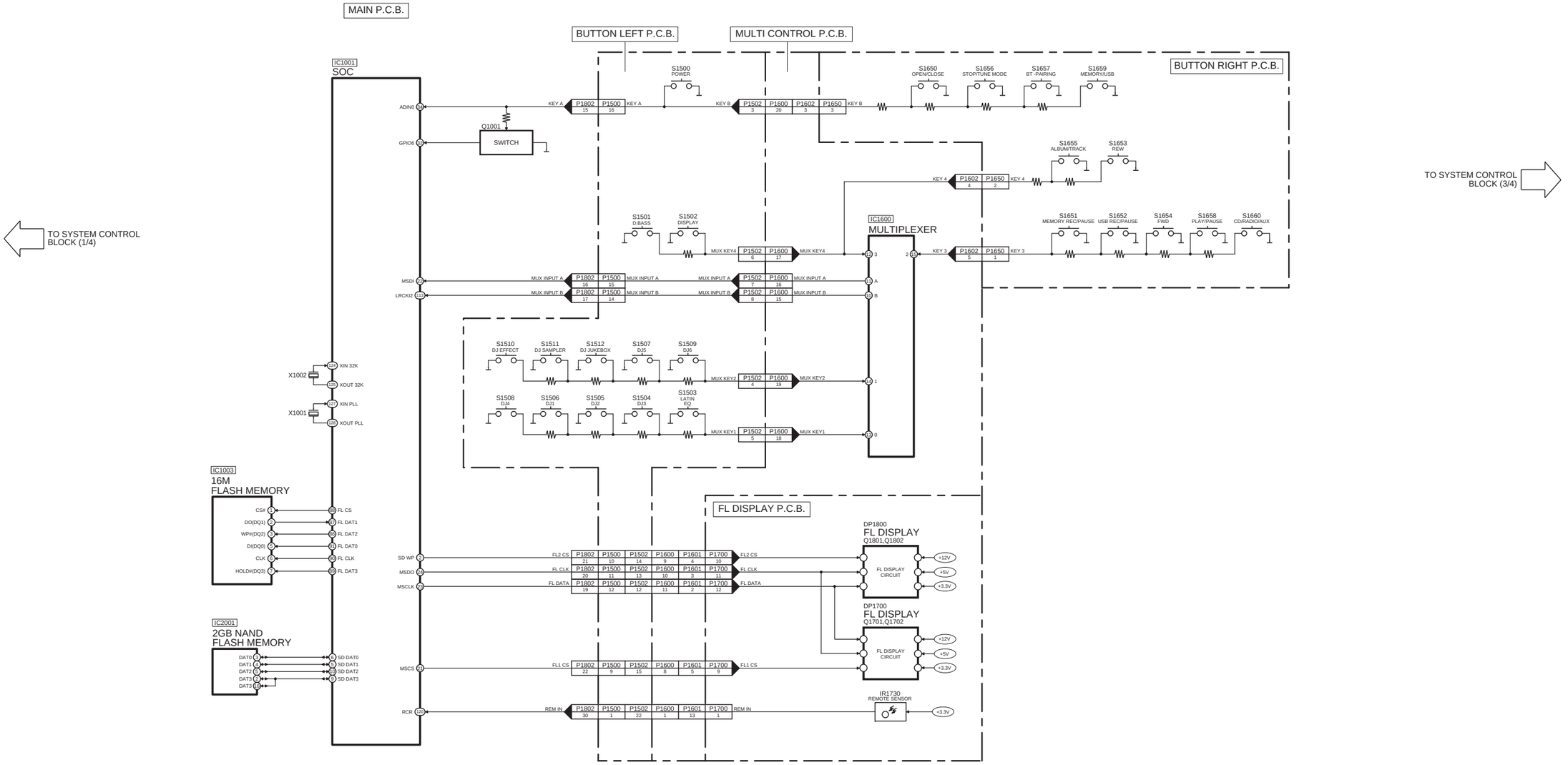
: CD SIGNAL LINE : TUNER/AUX SIGNAL LINE : USB SIGNAL LINE



NOTE: “ * ” REF IS FOR INDICATION ONLY

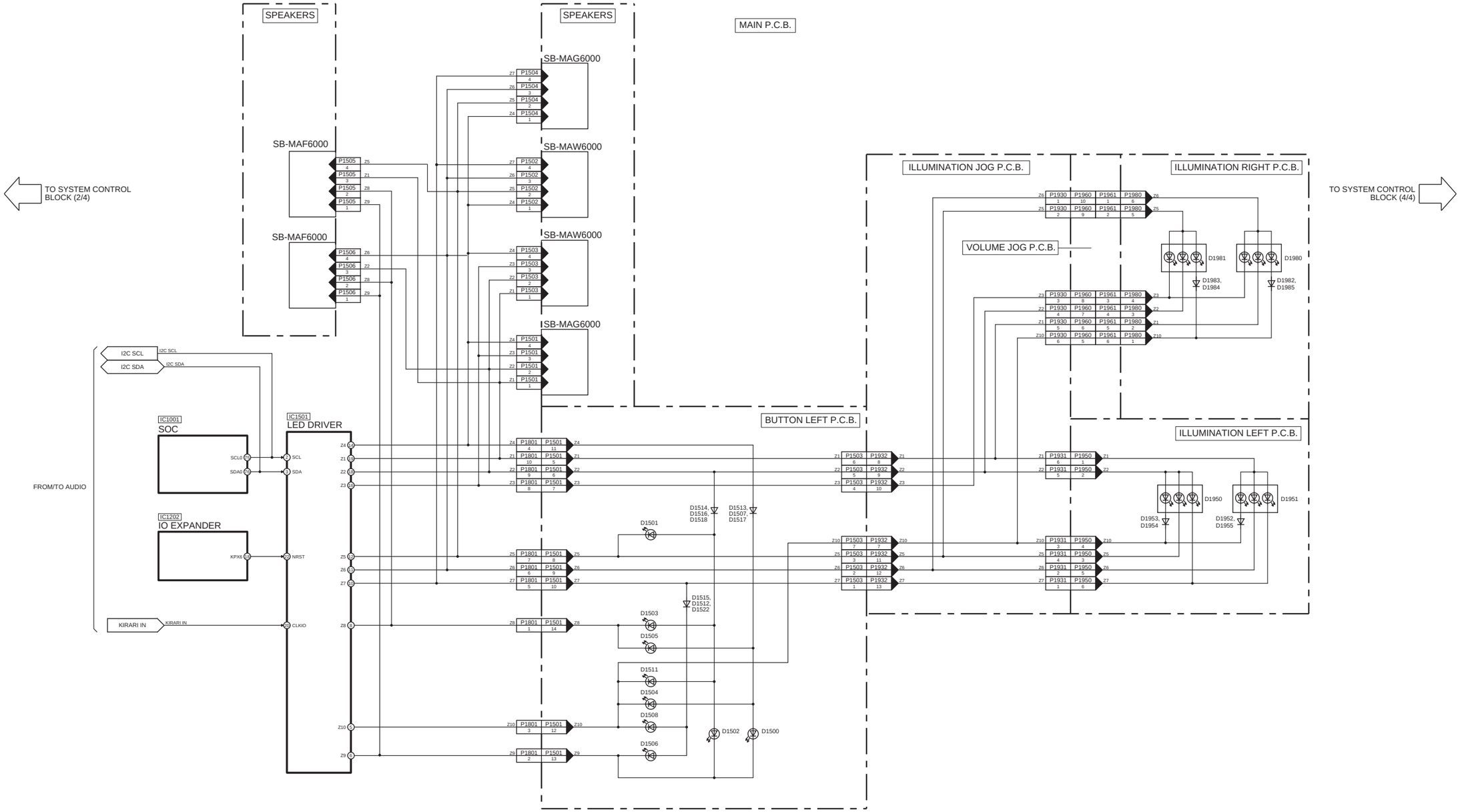
SA-MAX6000GS/GM SYSTEM CONTROL (1/4) BLOCK DIAGRAM

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



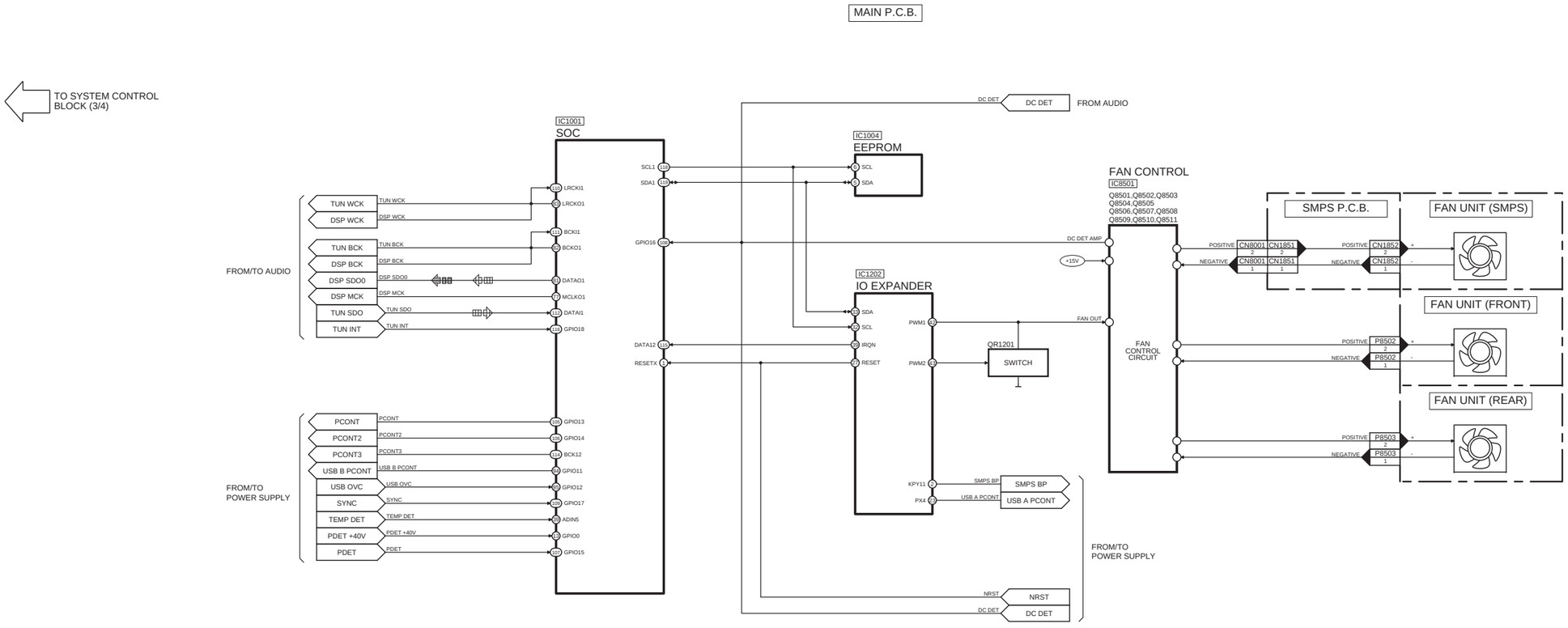
SA-MAX6000GS/GM SYSTEM CONTROL (2/4) BLOCK DIAGRAM

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



SA-MAX6000GS/GM SYSTEM CONTROL (3/4) BLOCK DIAGRAM

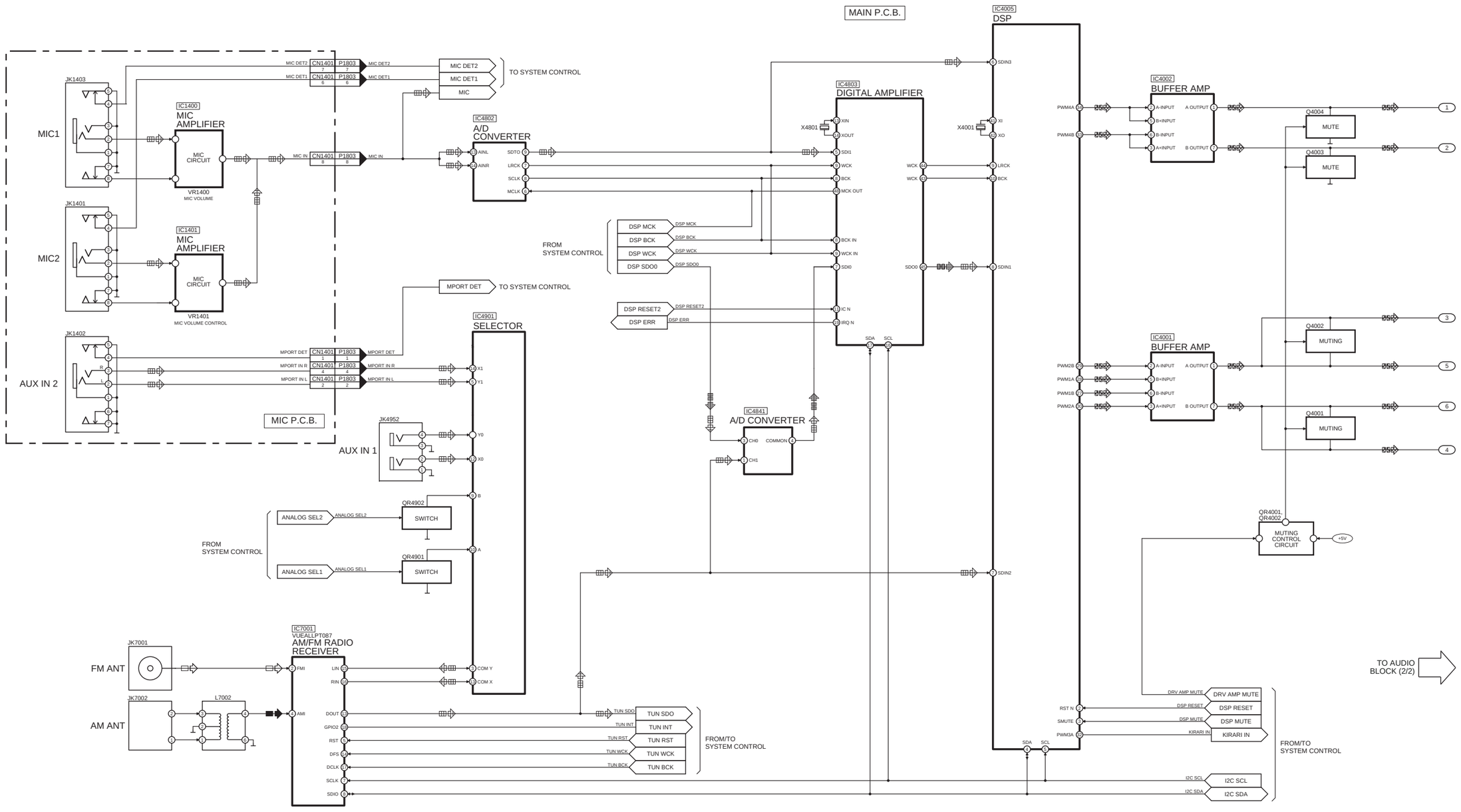
: CD SIGNAL LINE : TUNER/AUX SIGNAL LINE : USB SIGNAL LINE



SA-MAX6000GS/GM SYSTEM CONTROL (4/4) BLOCK DIAGRAM

4.2. Audio

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



SA-MAX6000GS/GM AUDIO (1/2) BLOCK DIAGRAM

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

MAIN P.C.B.

SPEAKERS

SUB WOOFER LEFT

SUB WOOFER RIGHT

FRONT RIGHT (HIGH)

FRONT RIGHT (LOW)

FRONT LEFT (HIGH)

FRONT RIGHT (LOW)

FROM SYSTEM CONTROL

AMP FHOP

DAMP MOD DA

QR4202 SWITCH

QR4203 SWITCH

QR4201 SWITCH

-5V

+3.3V

D4509

D4209

IC4201 OSCILLATOR AMP

D4218 D4219

X4202

X4201

IC4501 AUDIO AMPLIFIER DRIVER

IC4202 AUDIO AMPLIFIER DRIVER

Q4505 AMPLIFIER

Q4506 AMPLIFIER

Q4502 AMPLIFIER

Q4501 AMPLIFIER

Q4503 AMPLIFIER

Q4504 AMPLIFIER

Q4507 AMPLIFIER

Q4508 AMPLIFIER

Q4205 AMPLIFIER

Q4206 AMPLIFIER

Q4207 AMPLIFIER

Q4208 AMPLIFIER

Q4202 AMPLIFIER

Q4201 AMPLIFIER

Q4203 AMPLIFIER

Q4204 AMPLIFIER

Q4509 DC DETECT

Q4209 DC DETECT

DC DET TO SYSTEM CONTROL

QR4501,QR4502 DC DETECT CIRCUIT

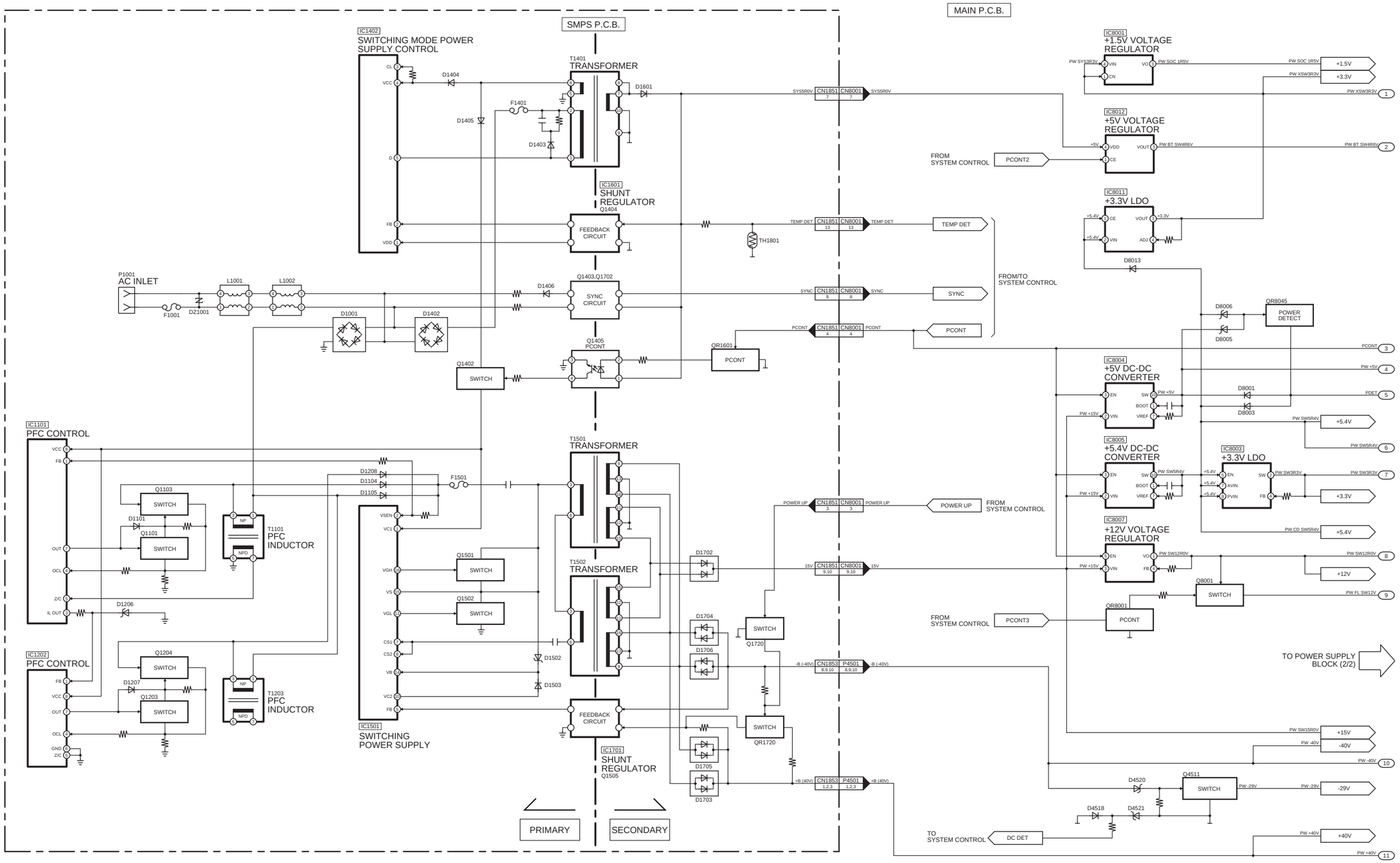
IC4502 TEMPERATURE SENSOR

IC4203 TEMPERATURE SENSOR

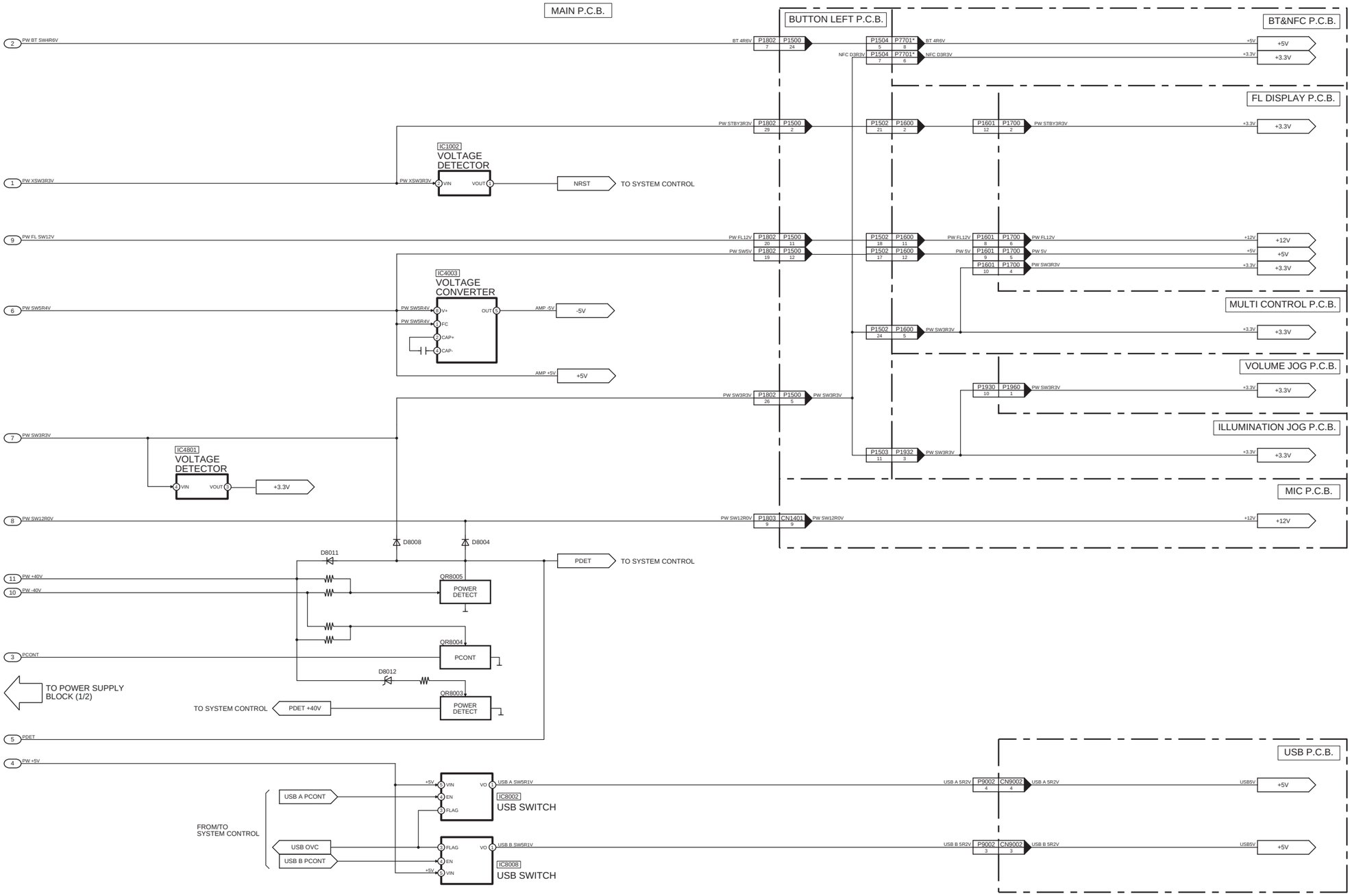
TO AUDIO BLOCK (1/2)

SA-MAX6000GS/GM AUDIO (2/2) BLOCK DIAGRAM

4.3. Power Supply



SA-MAX6000GS/GM POWER SUPPLY (1/2) BLOCK DIAGRAM



NOTE: “ * ” REF IS FOR INDICATION ONLY

SA-MAX6000GS/GM POWER SUPPLY (2/2) BLOCK DIAGRAM

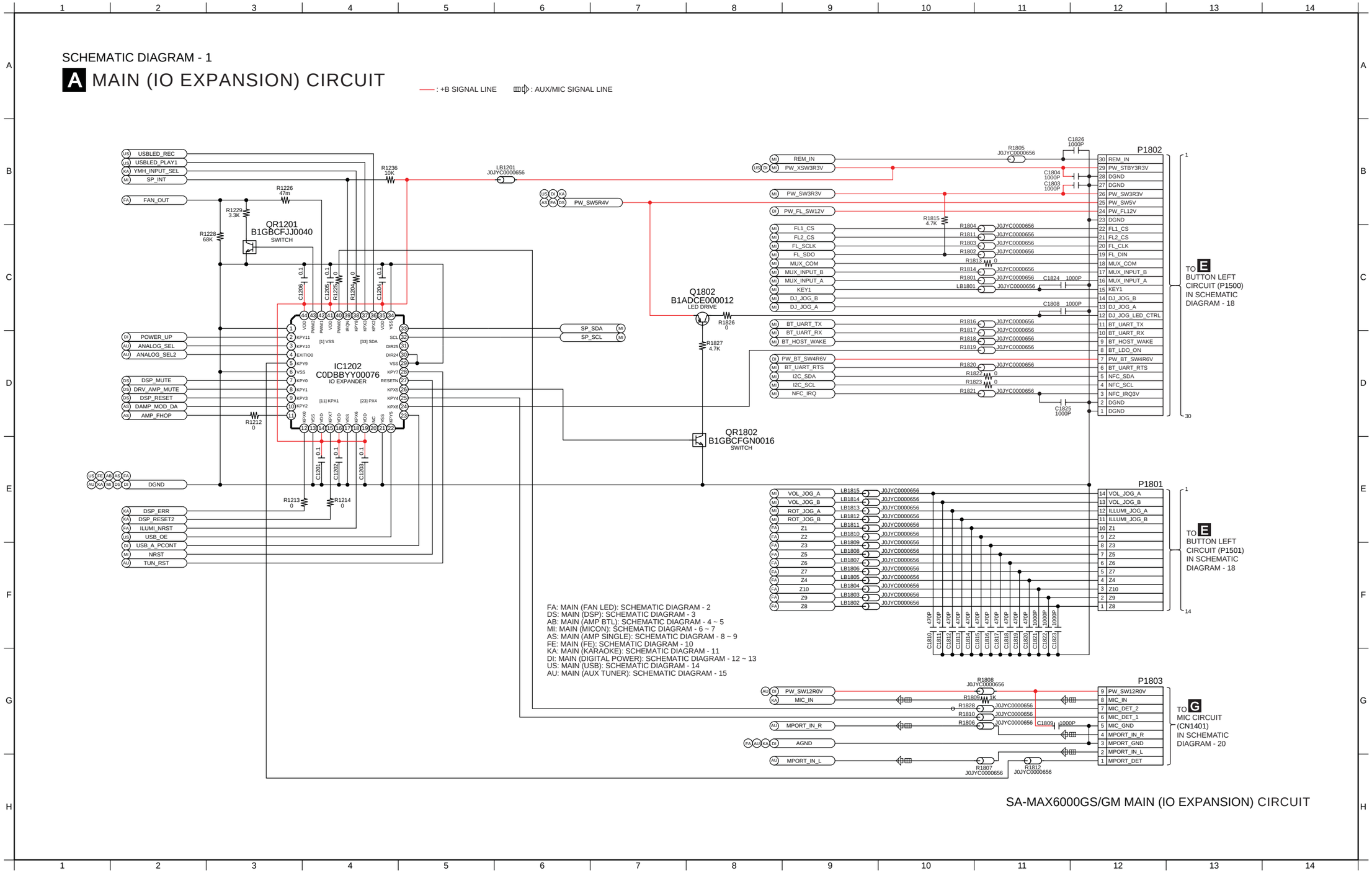
5 Schematic Diagram

5.1. Main (IO Expansion) Circuit

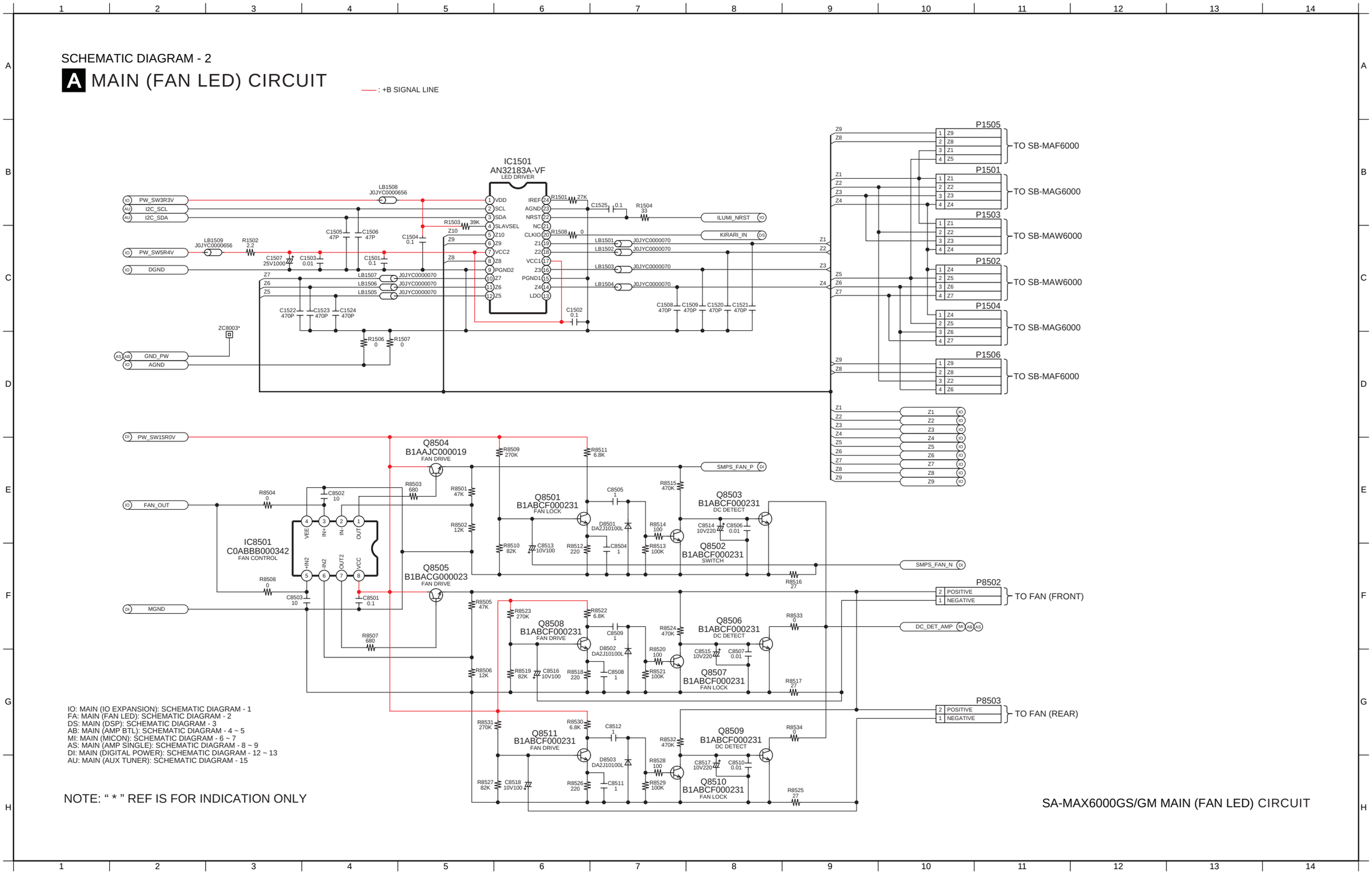
SCHEMATIC DIAGRAM - 1

A MAIN (IO EXPANSION) CIRCUIT

—— : +B SIGNAL LINE ⫼▷ : AUX/MIC SIGNAL LINE



5.2. Main (Fan LED) Circuit

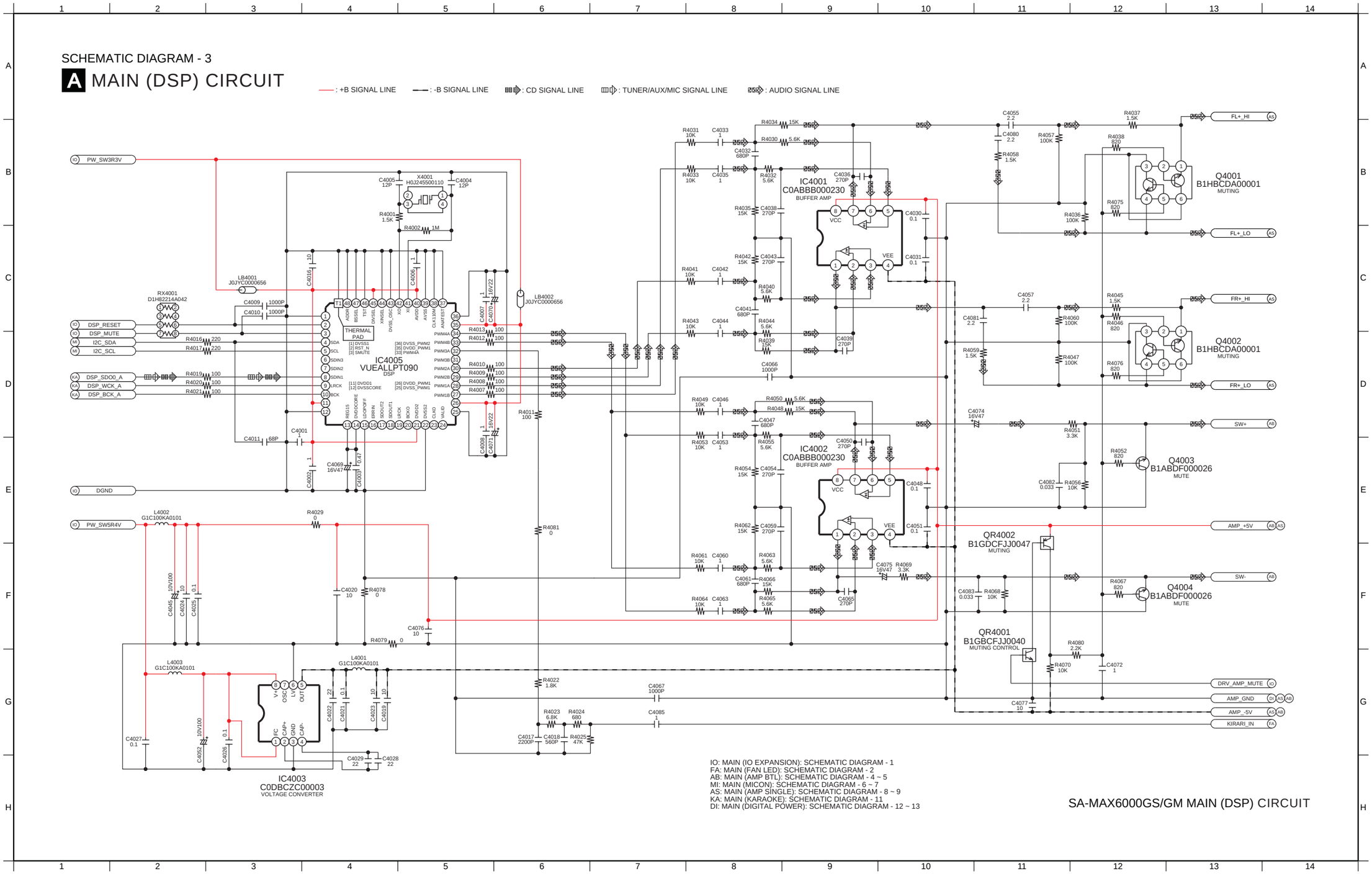


5.3. Main (DSP) Circuit

SCHEMATIC DIAGRAM - 3

A MAIN (DSP) CIRCUIT

—— : +B SIGNAL LINE —— : -B SIGNAL LINE : CD SIGNAL LINE : TUNER/AUX/MIC SIGNAL LINE : AUDIO SIGNAL LINE



IO: MAIN (IO EXPANSION): SCHEMATIC DIAGRAM - 1
FA: MAIN (FAN LED): SCHEMATIC DIAGRAM - 2
AB: MAIN (AMP BTL): SCHEMATIC DIAGRAM - 4 ~ 5
MI: MAIN (MICON): SCHEMATIC DIAGRAM - 6 ~ 7
AS: MAIN (AMP SINGLE): SCHEMATIC DIAGRAM - 8 ~ 9
KA: MAIN (KARAOKE): SCHEMATIC DIAGRAM - 11
DI: MAIN (DIGITAL POWER): SCHEMATIC DIAGRAM - 12 ~ 13

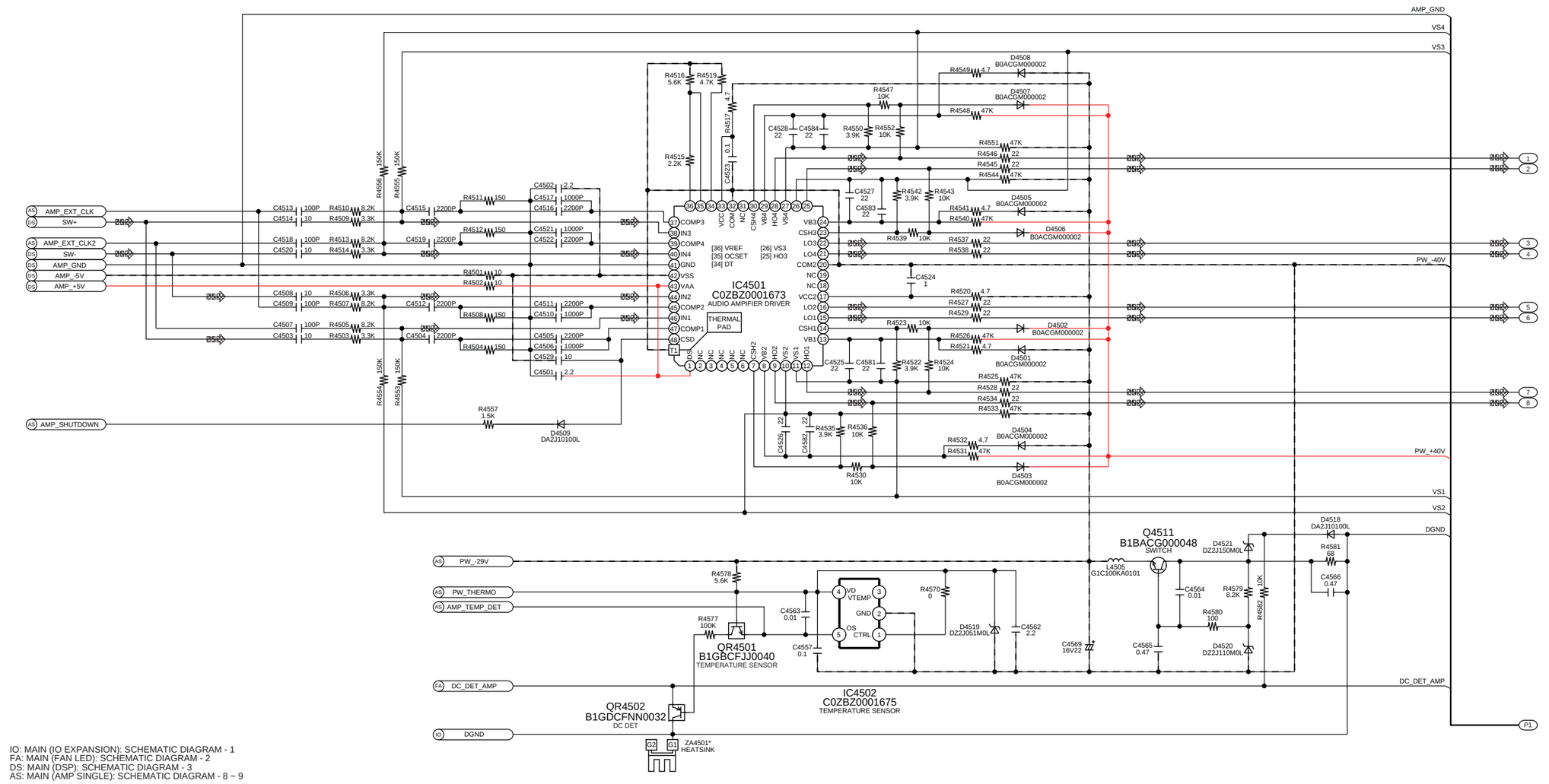
SA-MAX6000GS/GM MAIN (DSP) CIRCUIT

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

SCHEMATIC DIAGRAM - 4

A MAIN (AMP BTL) CIRCUIT

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



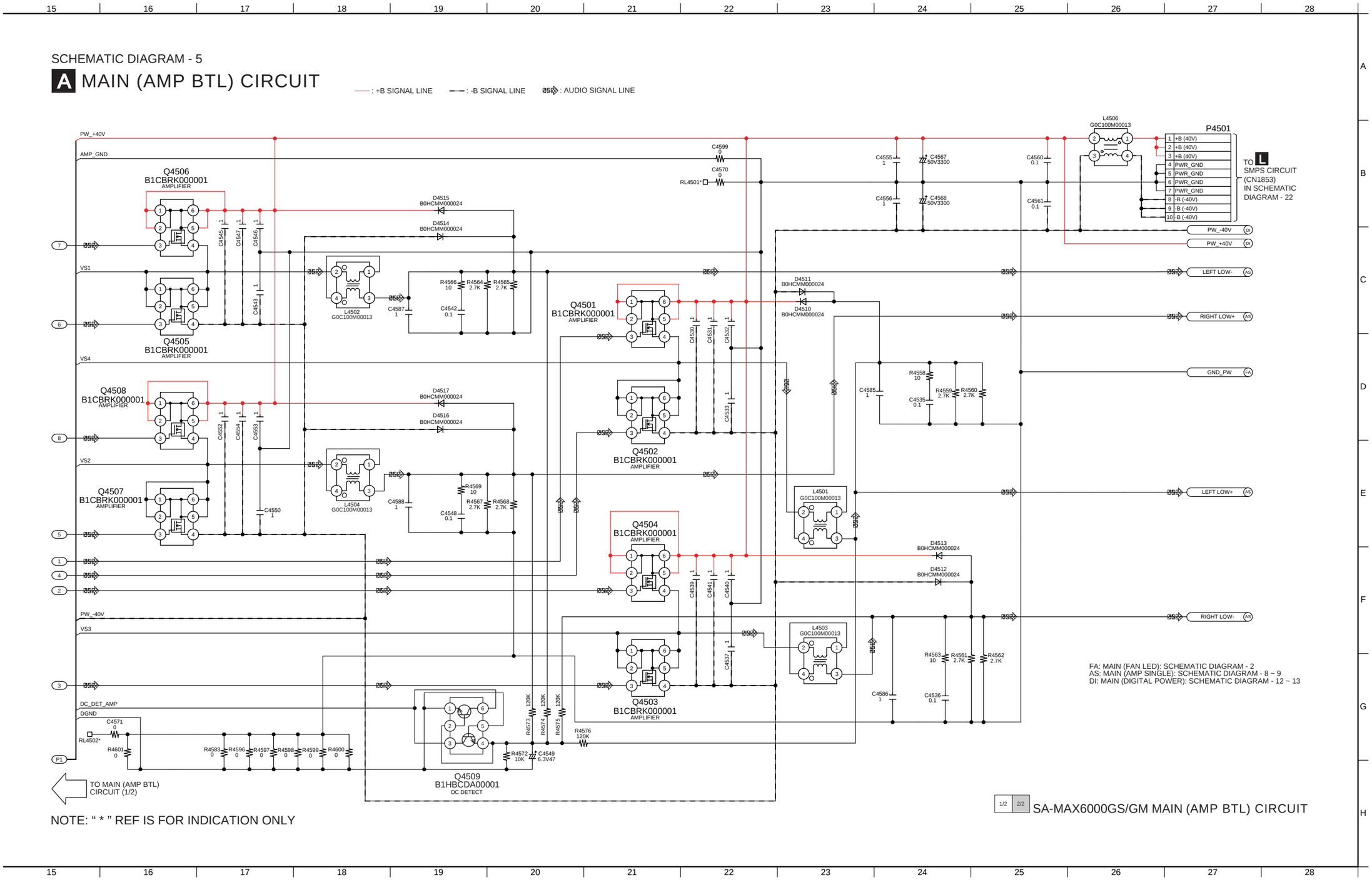
IO: MAIN (IO EXPANSION): SCHEMATIC DIAGRAM - 1
FA: MAIN (FAN LED): SCHEMATIC DIAGRAM - 2
DS: MAIN (DSP): SCHEMATIC DIAGRAM - 3
AS: MAIN (AMP SINGLE): SCHEMATIC DIAGRAM - 8 ~ 9

TO MAIN (AMP BTL) CIRCUIT (2/2)

1/2 2/2 SA-MAX6000GS/GM MAIN (AMP BTL) CIRCUIT

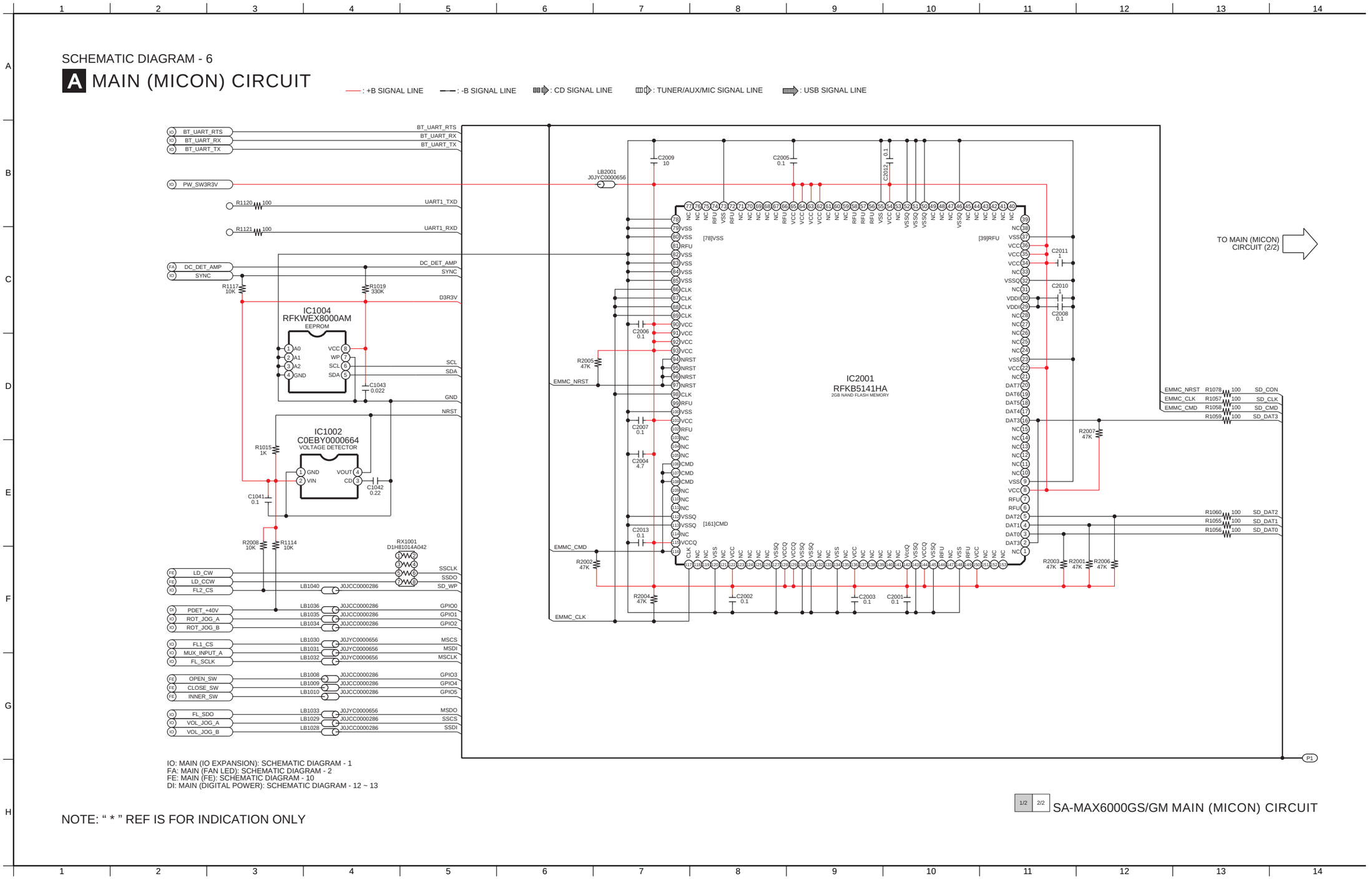
NOTE: " * " REF IS FOR INDICATION ONLY

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



NOTE: " * " REF IS FOR INDICATION ONLY

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

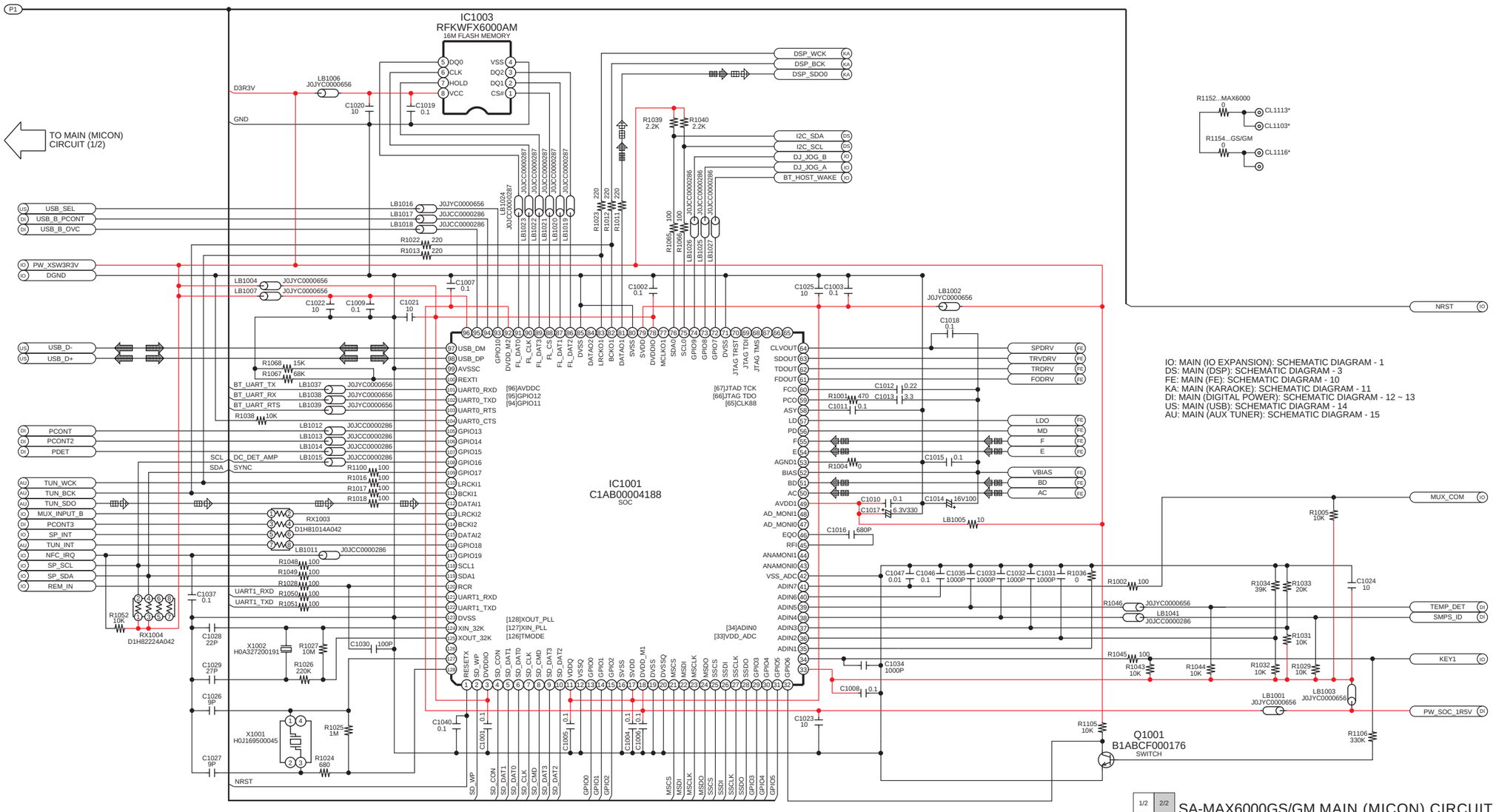


5.7. Main (MICON) Circuit (2/2)

SCHEMATIC DIAGRAM - 7

A MAIN (MICON) CIRCUIT

—— : +B SIGNAL LINE —— : -B SIGNAL LINE : CD SIGNAL LINE : TUNER/AUX/MIC SIGNAL LINE : USB SIGNAL LINE



1/2 2/2 SA-MAX6000GS/GM MAIN (MICON) CIRCUIT

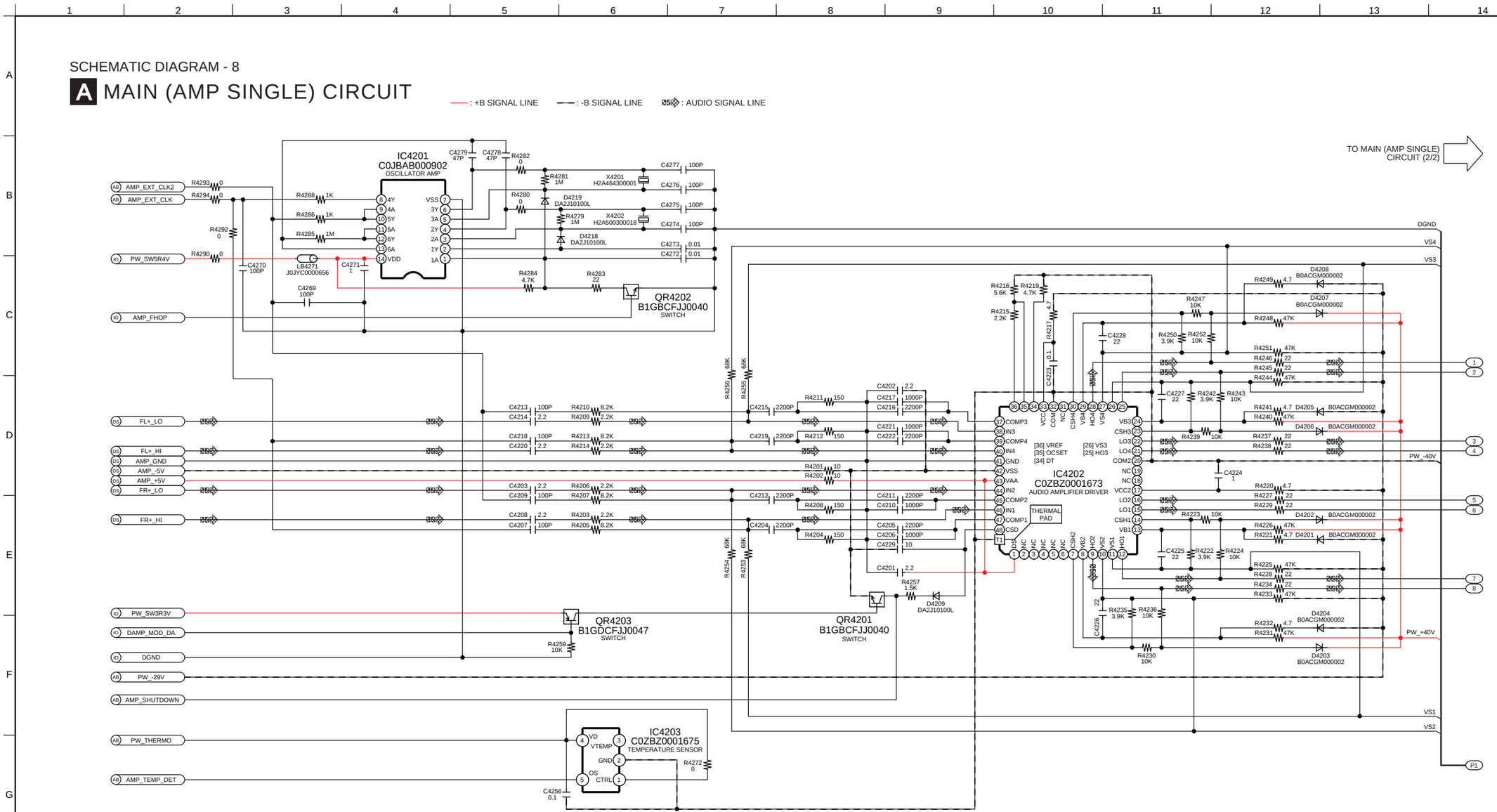
NOTE: " * " REF IS FOR INDICATION ONLY

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

SCHEMATIC DIAGRAM - 8

A MAIN (AMP SINGLE) CIRCUIT

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

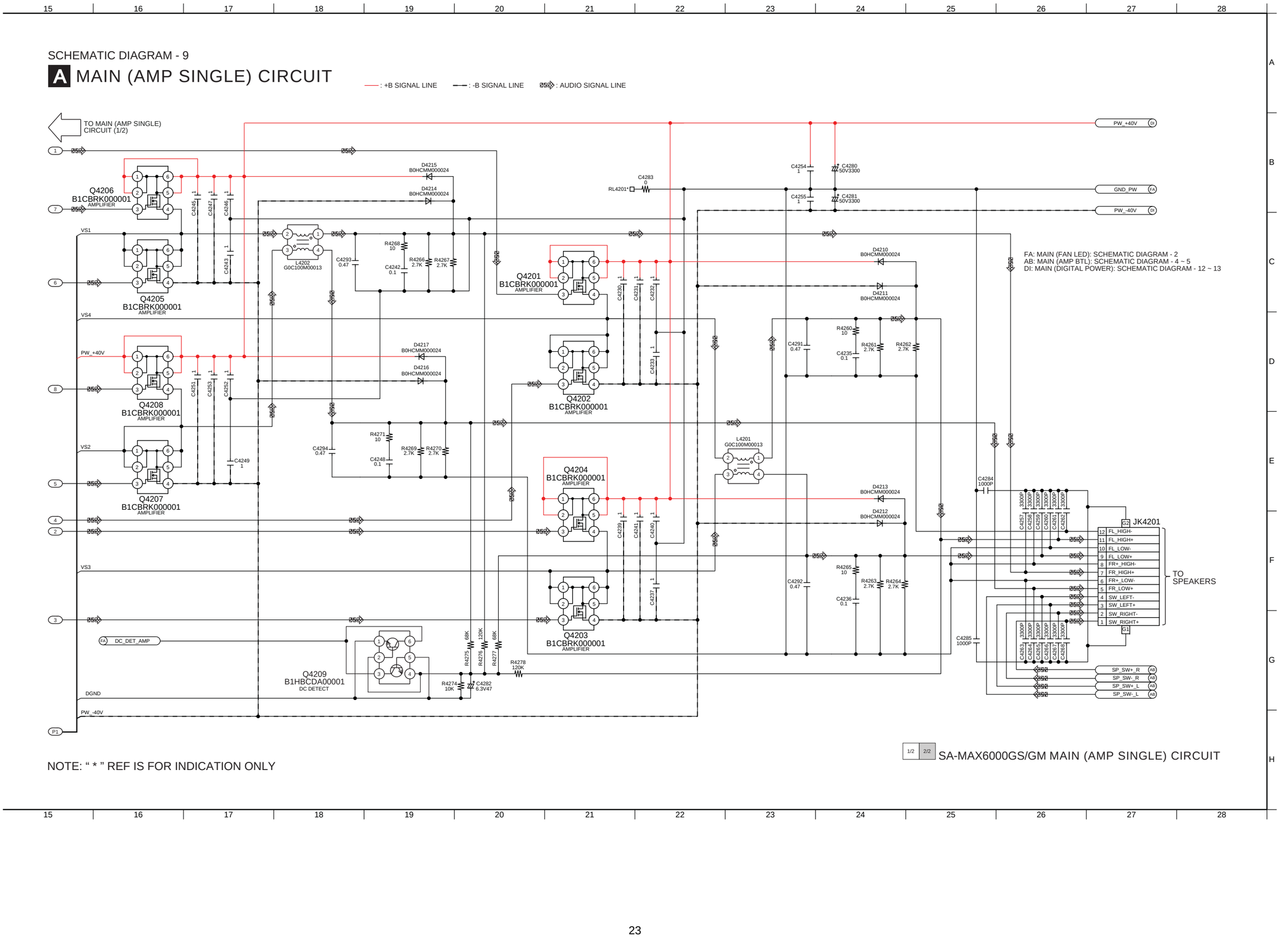


IO: MAIN (IO EXPANSION): SCHEMATIC DIAGRAM - 1
DS: MAIN (DSP): SCHEMATIC DIAGRAM - 3
AB: MAIN (AMP BTL): SCHEMATIC DIAGRAM - 4 ~ 5

NOTE: " * " REF IS FOR INDICATION ONLY

1/2 2/2 SA-MAX6000GS/GM MAIN (AMP SINGLE) CIRCUIT

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

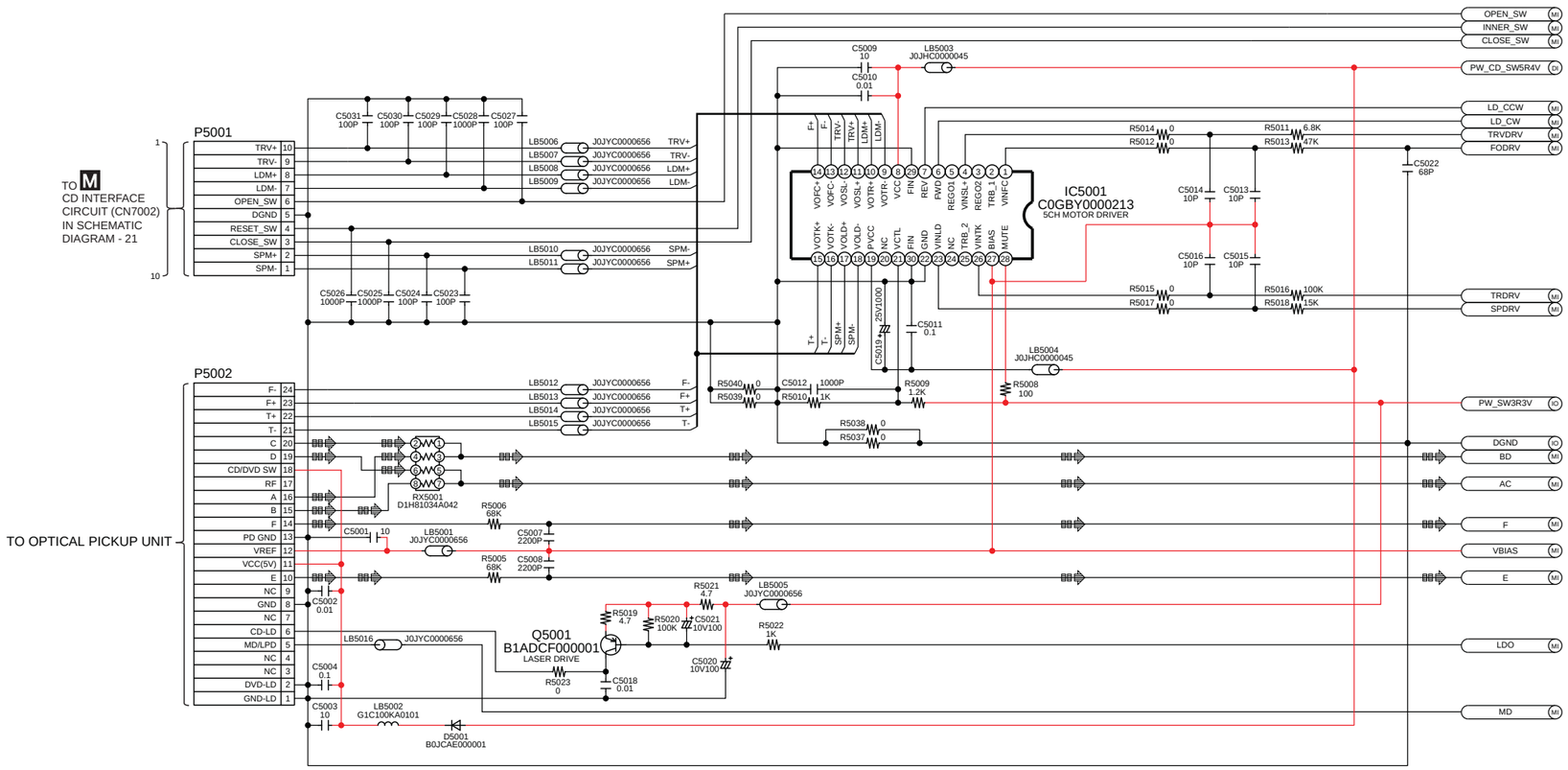


5.10. Main (FE) Circuit

SCHEMATIC DIAGRAM - 10

A MAIN (FE) CIRCUIT

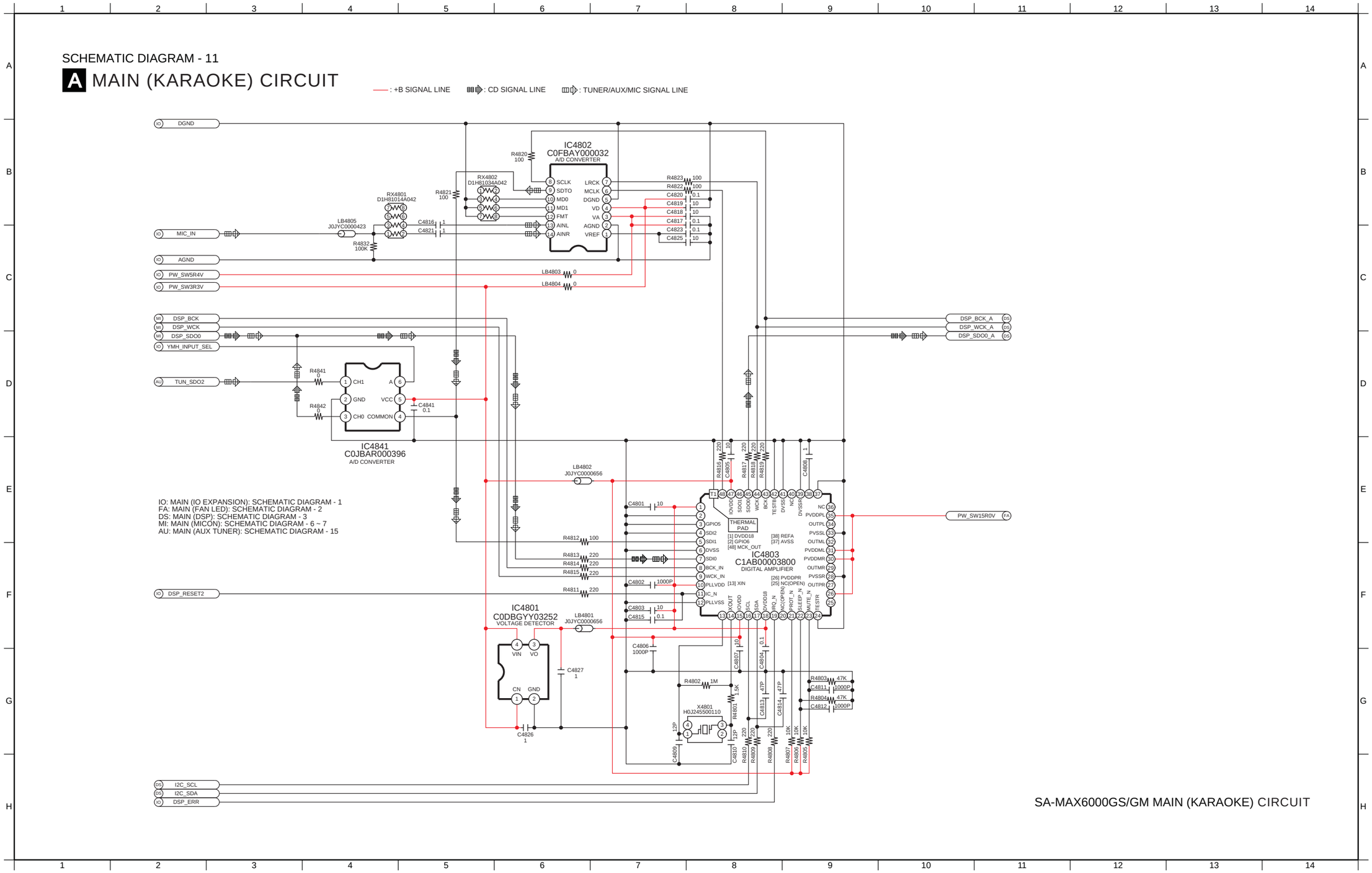
—— : +B SIGNAL LINE ▤▤▶ : CD SIGNAL LINE



IO: MAIN (IO EXPANSION): SCHEMATIC DIAGRAM - 1
MI: MAIN (MICON): SCHEMATIC DIAGRAM - 6 ~ 7
DI: MAIN (DIGITAL POWER): SCHEMATIC DIAGRAM - 12 ~ 13

SA-MAX6000GS/GM MAIN (FE) CIRCUIT

5.11. Main (Karaoke) Circuit

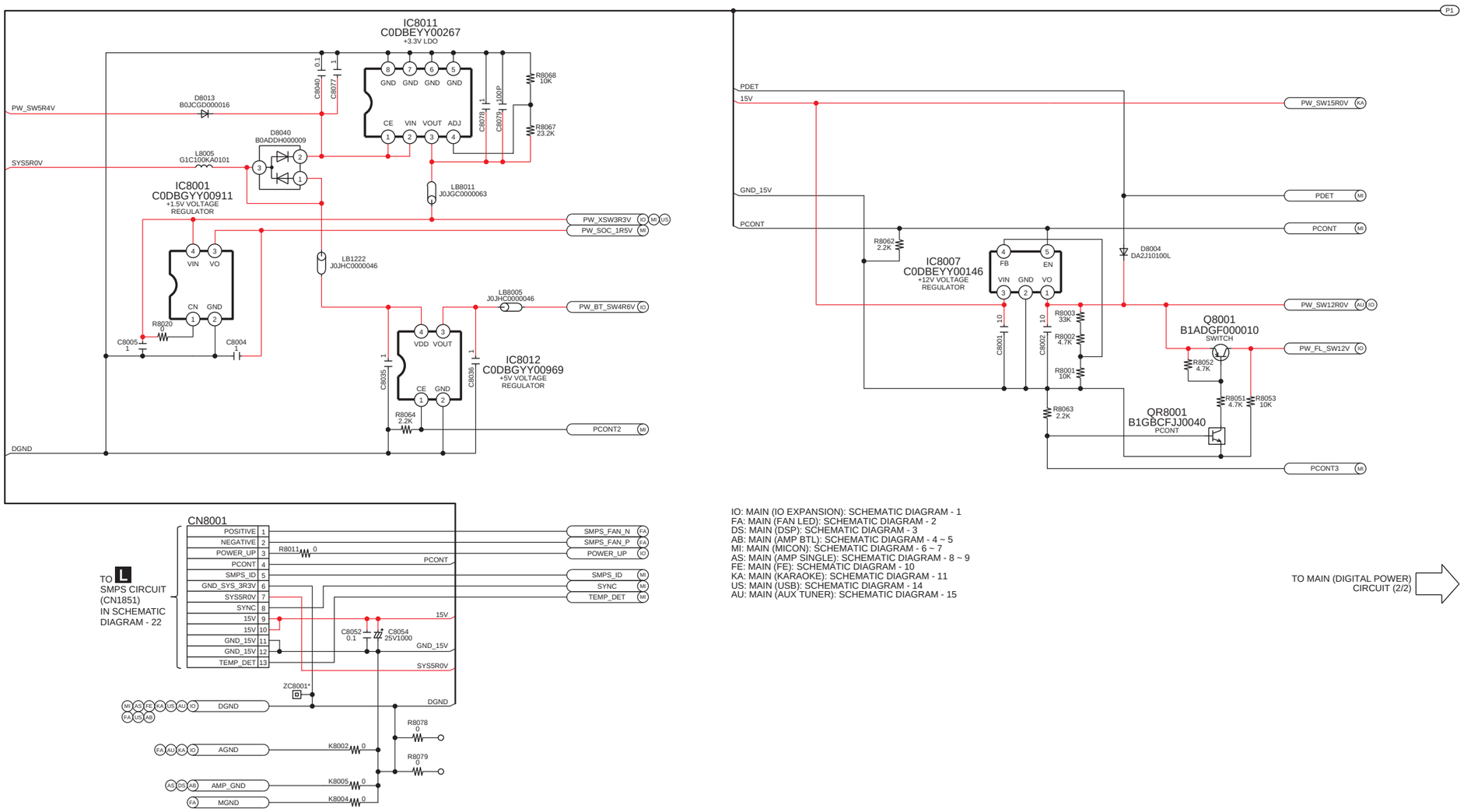


5.12. Main (Digital Power) Circuit (1/2)

SCHEMATIC DIAGRAM - 12

A MAIN (DIGITAL POWER) CIRCUIT

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



IO: MAIN (IO EXPANSION): SCHEMATIC DIAGRAM - 1
FA: MAIN (FAN LED): SCHEMATIC DIAGRAM - 2
DS: MAIN (DSP): SCHEMATIC DIAGRAM - 3
AB: MAIN (AMP BTL): SCHEMATIC DIAGRAM - 4 ~ 5
MI: MAIN (MICON): SCHEMATIC DIAGRAM - 6 ~ 7
AS: MAIN (AMP SINGLE): SCHEMATIC DIAGRAM - 8 ~ 9
FE: MAIN (FE): SCHEMATIC DIAGRAM - 10
KA: MAIN (KARAOKE): SCHEMATIC DIAGRAM - 11
US: MAIN (USB): SCHEMATIC DIAGRAM - 14
AU: MAIN (AUX TUNER): SCHEMATIC DIAGRAM - 15

TO MAIN (DIGITAL POWER) CIRCUIT (2/2)

NOTE: " * " REF IS FOR INDICATION ONLY

1/2 2/2 SA-MAX6000GS/GM MAIN (DIGITAL POWER) CIRCUIT

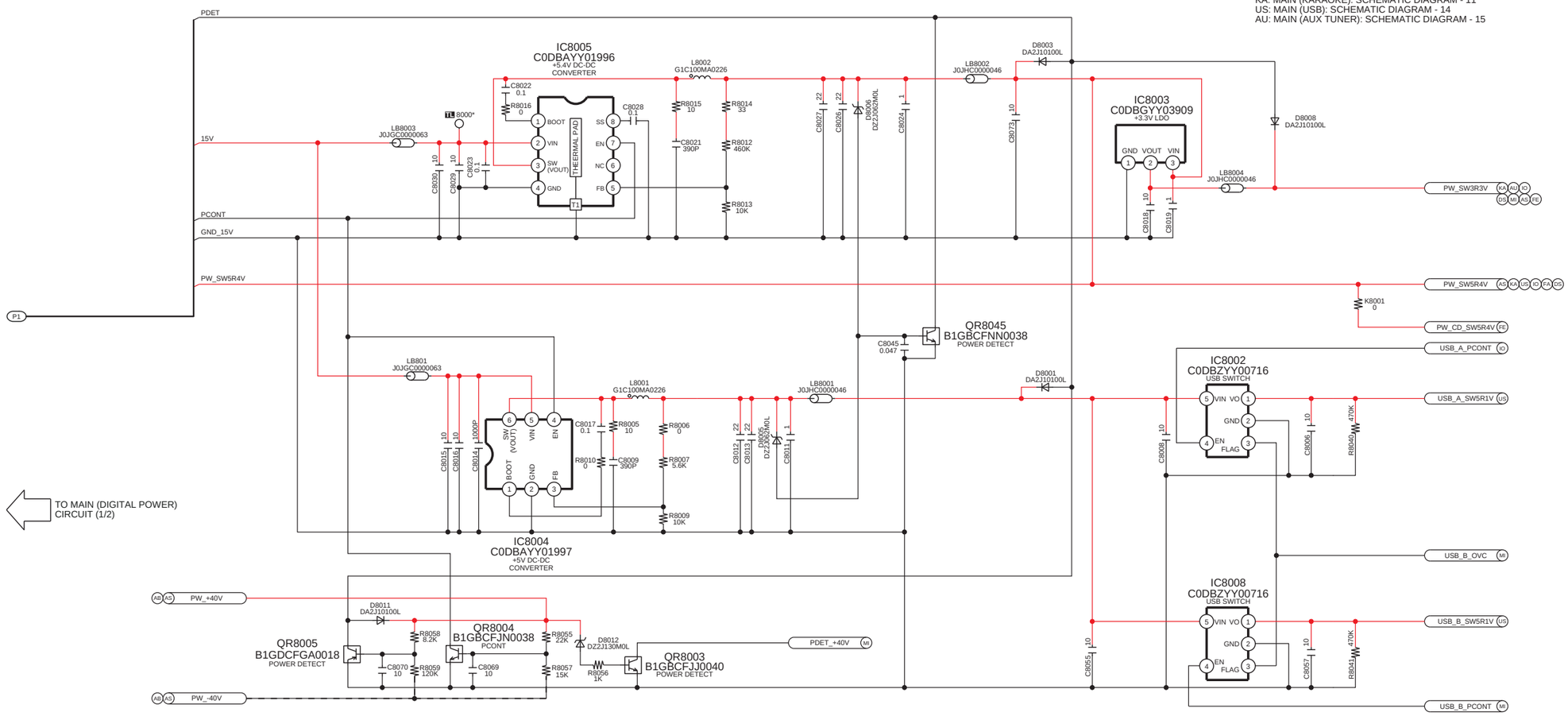
5.13. Main (Digital Power) Circuit (2/2)

SCHEMATIC DIAGRAM - 13

A MAIN (DIGITAL POWER) CIRCUIT

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

IO: MAIN (IO EXPANSION): SCHEMATIC DIAGRAM - 1
FA: MAIN (FAN LED): SCHEMATIC DIAGRAM - 2
DS: MAIN (DSP): SCHEMATIC DIAGRAM - 3
AB: MAIN (AMP BTL): SCHEMATIC DIAGRAM - 4 ~ 5
MI: MAIN (MICON): SCHEMATIC DIAGRAM - 6 ~ 7
AS: MAIN (AMP SINGLE): SCHEMATIC DIAGRAM - 8 ~ 9
FE: MAIN (FE): SCHEMATIC DIAGRAM - 10
KA: MAIN (KARAOKE): SCHEMATIC DIAGRAM - 11
US: MAIN (USB): SCHEMATIC DIAGRAM - 14
AU: MAIN (AUX TUNER): SCHEMATIC DIAGRAM - 15



TO MAIN (DIGITAL POWER) CIRCUIT (1/2)

NOTE: " * " REF IS FOR INDICATION ONLY

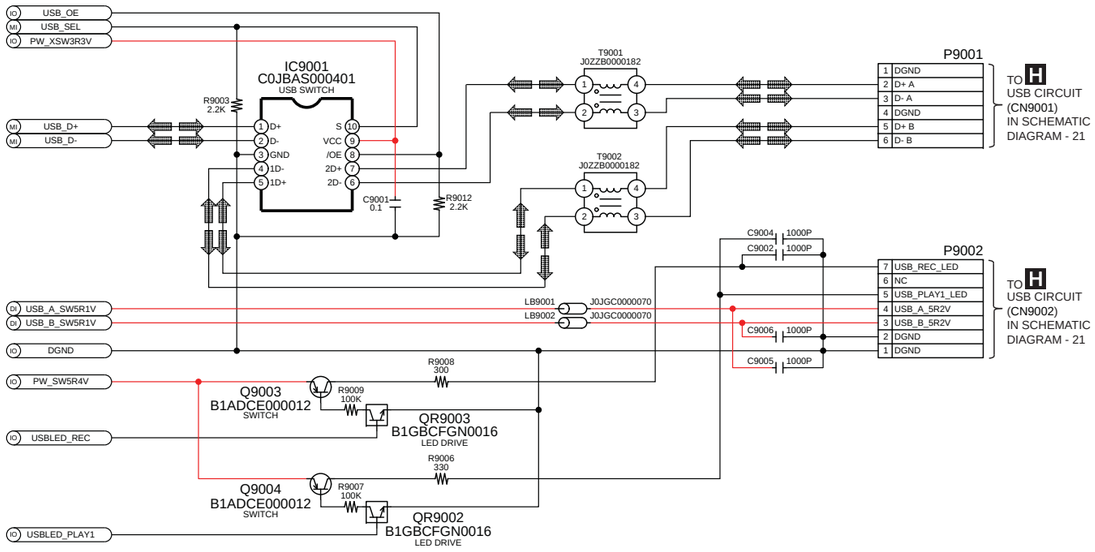
1/2 2/2 SA-MAX6000GS/GM MAIN (DIGITAL POWER) CIRCUIT

5.14. Main (USB) Circuit

SCHEMATIC DIAGRAM - 14

A MAIN (USB) CIRCUIT

—— : +B SIGNAL LINE ⇒ : USB SIGNAL LINE



IO: MAIN (IO EXPANSION): SCHEMATIC DIAGRAM - 1
MI: MAIN (MICON): SCHEMATIC DIAGRAM - 6 ~ 7
DI: MAIN (DIGITAL POWER): SCHEMATIC DIAGRAM - 12 ~ 13

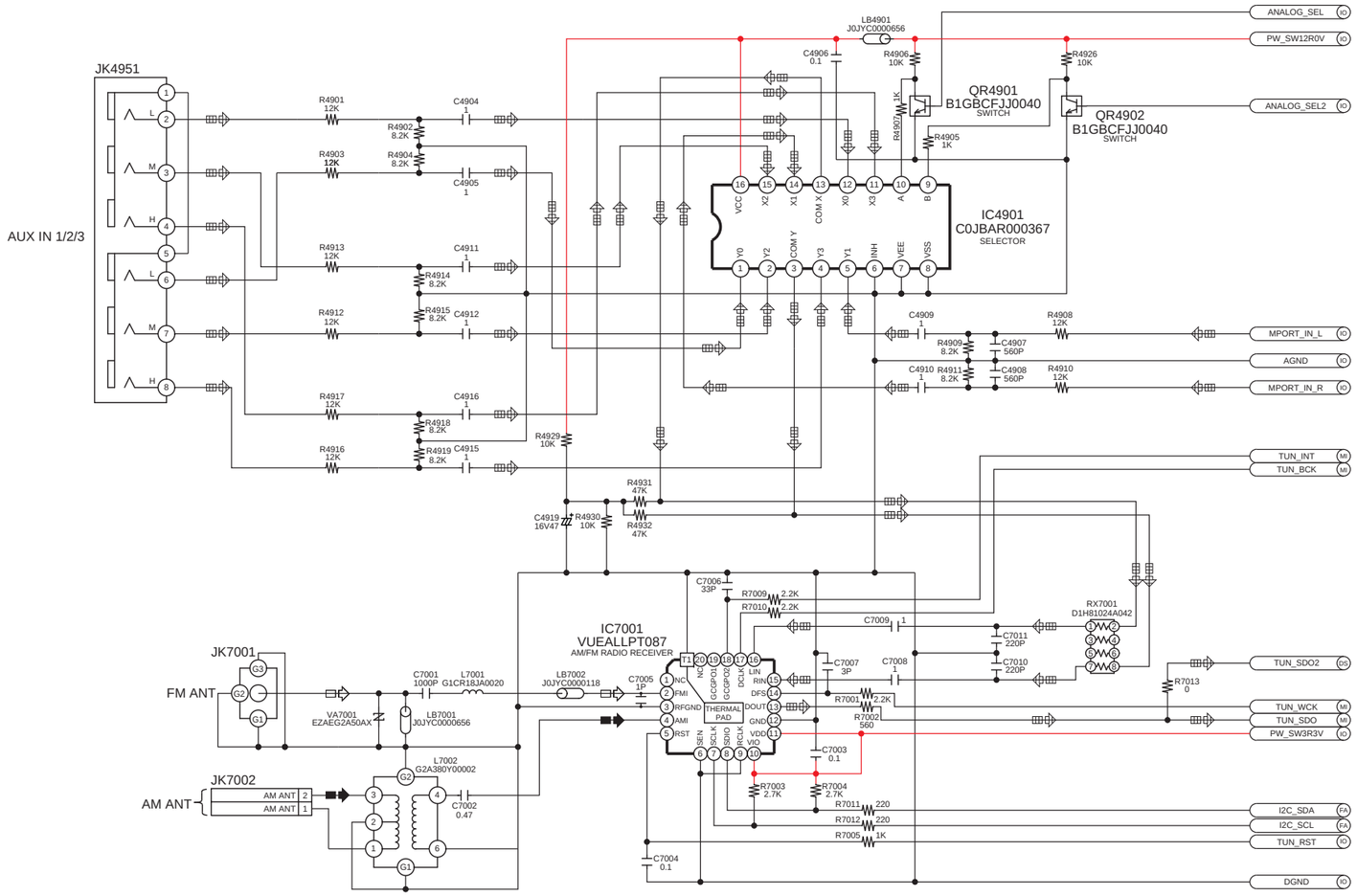
SA-MAX6000GS/GM MAIN (USB) CIRCUIT

5.15. Main (AUX Tuner) Circuit

SCHEMATIC DIAGRAM - 15

A MAIN (AUX TUNER) CIRCUIT

—— : +B SIGNAL LINE : TUNER/AUX SIGNAL LINE : AM SIGNAL LINE : FM SIGNAL LINE



IO: MAIN (IO EXPANSION): SCHEMATIC DIAGRAM - 1
FA: MAIN (FAN LED): SCHEMATIC DIAGRAM - 2
DS: MAIN (DSP): SCHEMATIC DIAGRAM - 3
MI: MAIN (MICON): SCHEMATIC DIAGRAM - 6 ~ 7

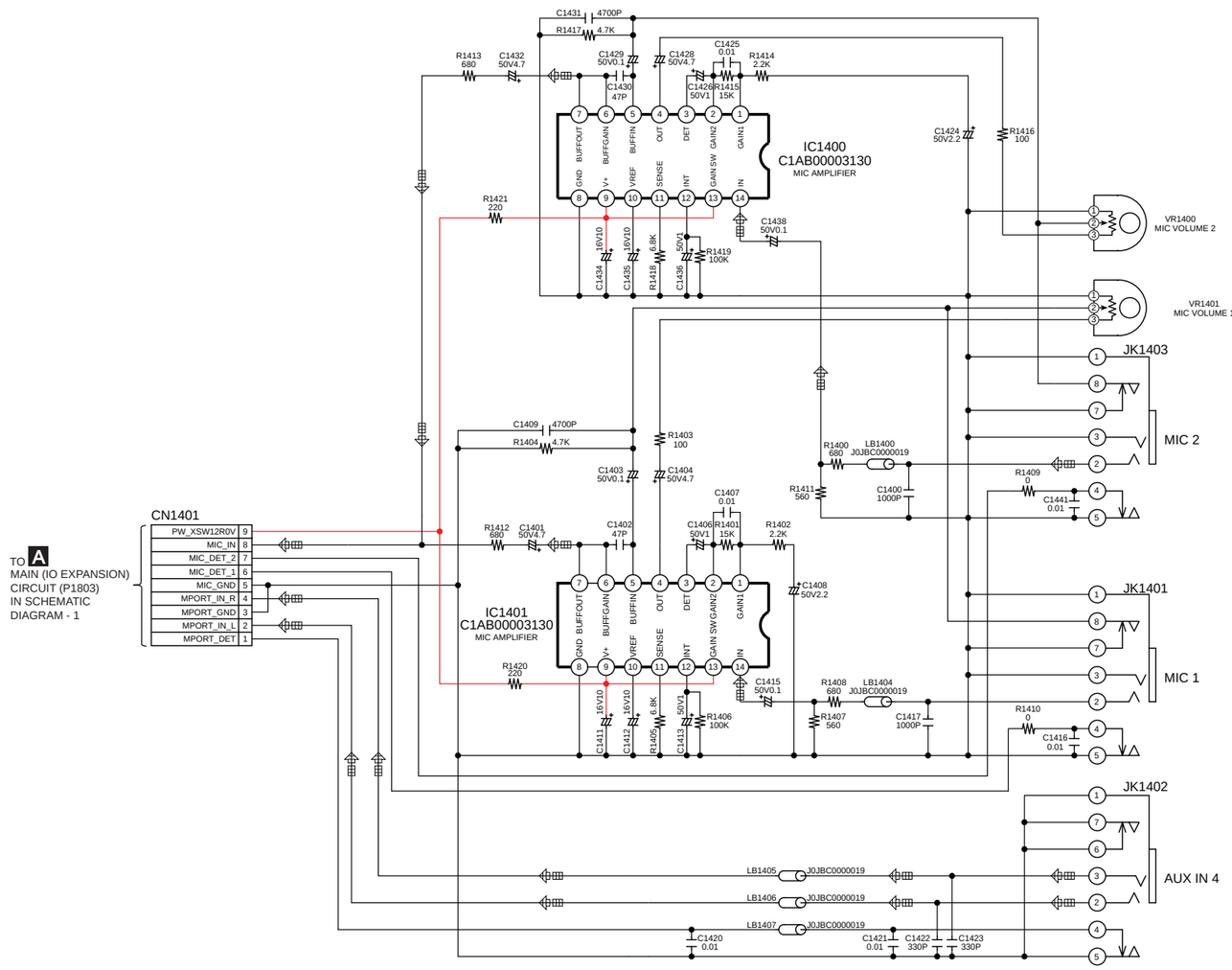
SA-MAX6000GS/GM MAIN (AUX TUNER) CIRCUIT

5.16. Mic Circuit

SCHEMATIC DIAGRAM - 20

G MIC CIRCUIT

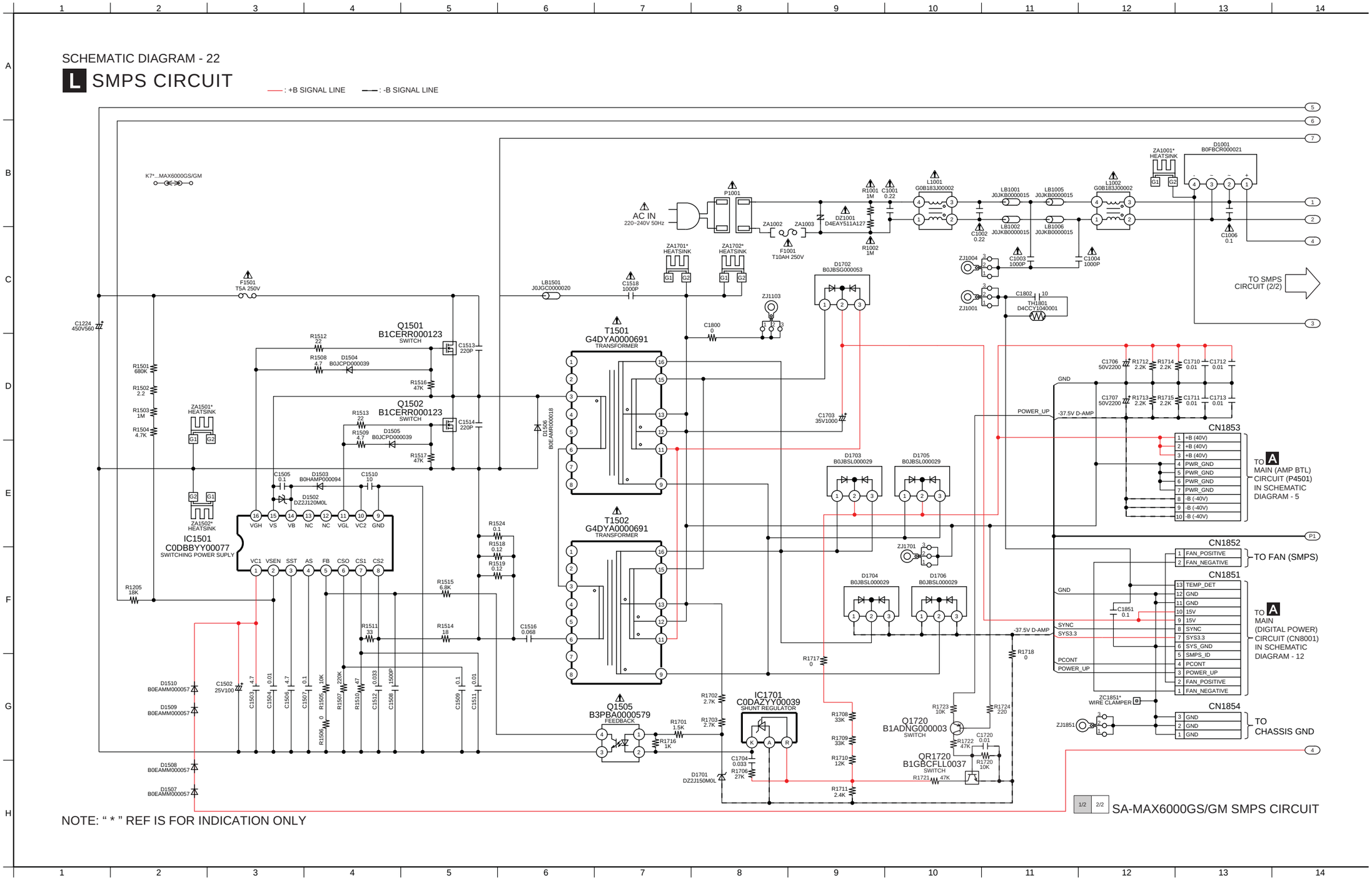
—— : +B SIGNAL LINE ⇨ : AUX/MIC SIGNAL LINE



NOTE: " * " REF IS FOR INDICATION ONLY

SA-MAX6000GS/GM MIC CIRCUIT

5.17. SMPS Circuit (1/2)

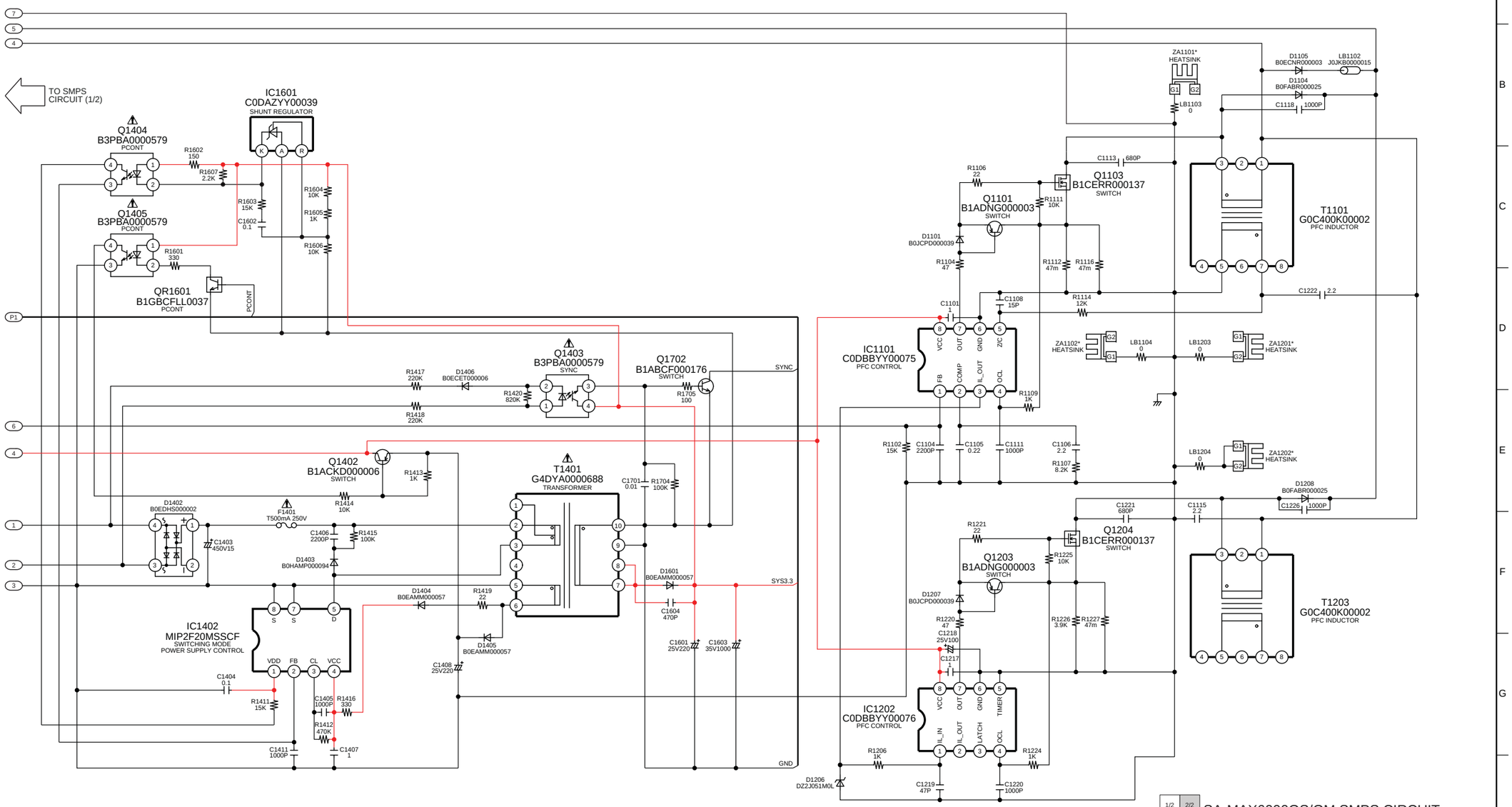


5.18. SMPS Circuit (2/2)

SCHEMATIC DIAGRAM - 23

L SMPS CIRCUIT

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



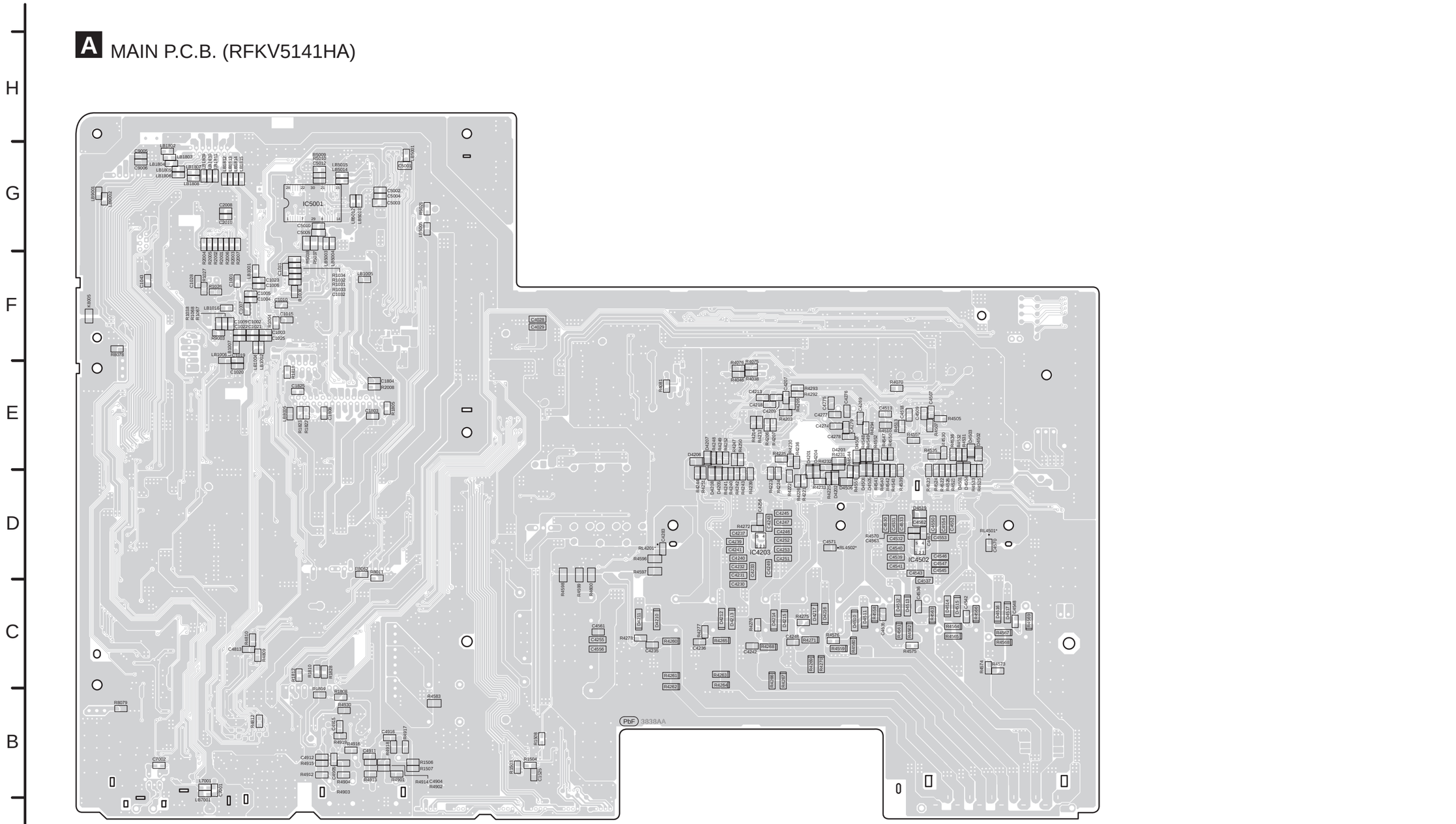
NOTE: " * " REF IS FOR INDICATION ONLY

1/2 2/2 SA-MAX6000GS/GM SMPS CIRCUIT

6 Printed Circuit Board

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

A MAIN P.C.B. (RFKV5141HA)



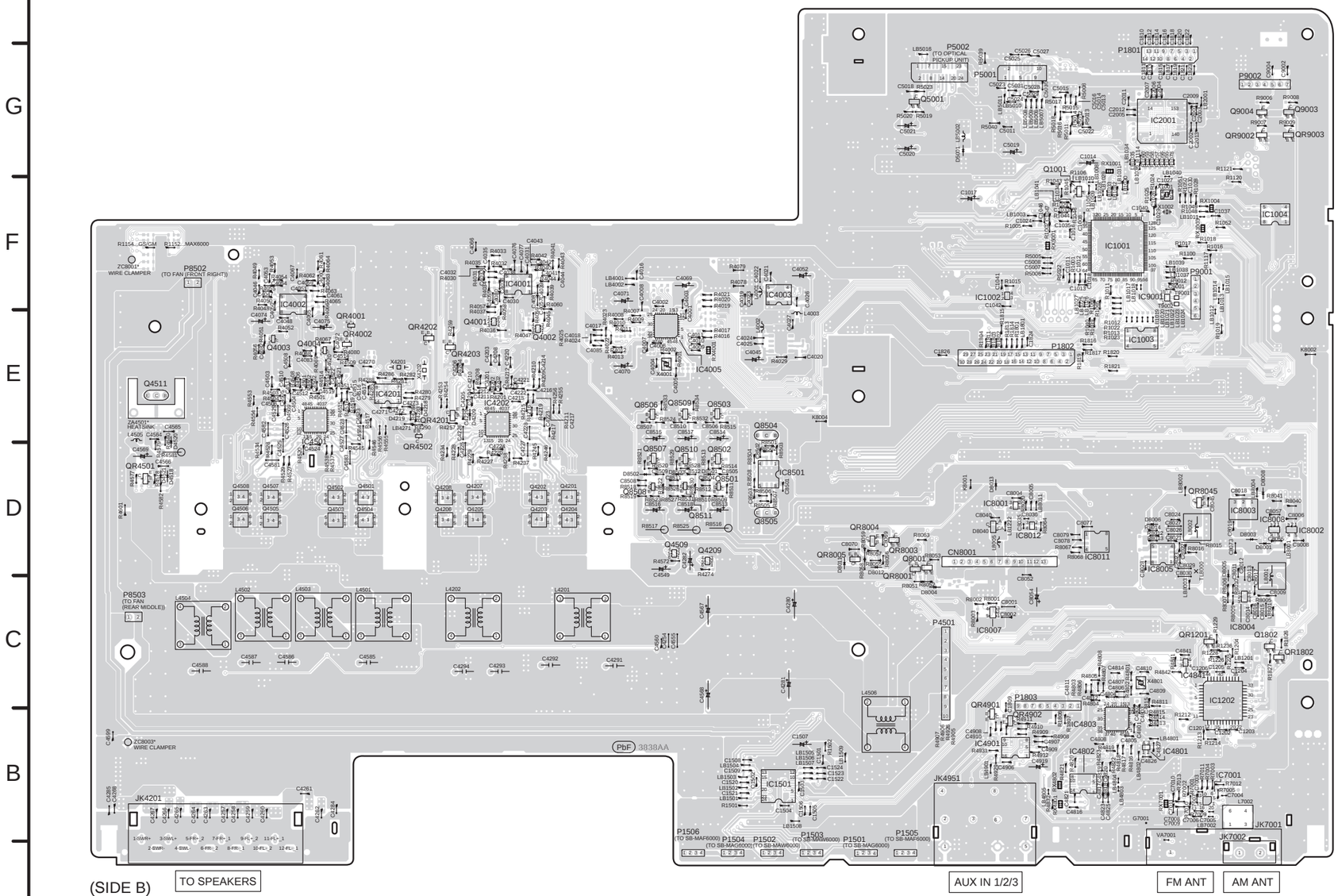
(SIDE A)

NOTE: " * " REF IS FOR INDICATION ONLY

SA-MAX6000GS/GM
MAIN P.C.B.

6.2. Main P.C.B. (Side B)

A MAIN P.C.B. (RFKV5141HA)



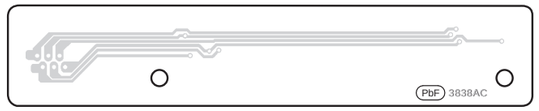
(SIDE B)

NOTE: " * " REF IS FOR INDICATION ONLY

SA-MAX6000GS/GM
MAIN P.C.B.

6.3. Illumination Left, Illumination Right and FL Display P.C.B.

B ILLUMINATION LEFT P.C.B. (REP5141HC)



(SIDE A)

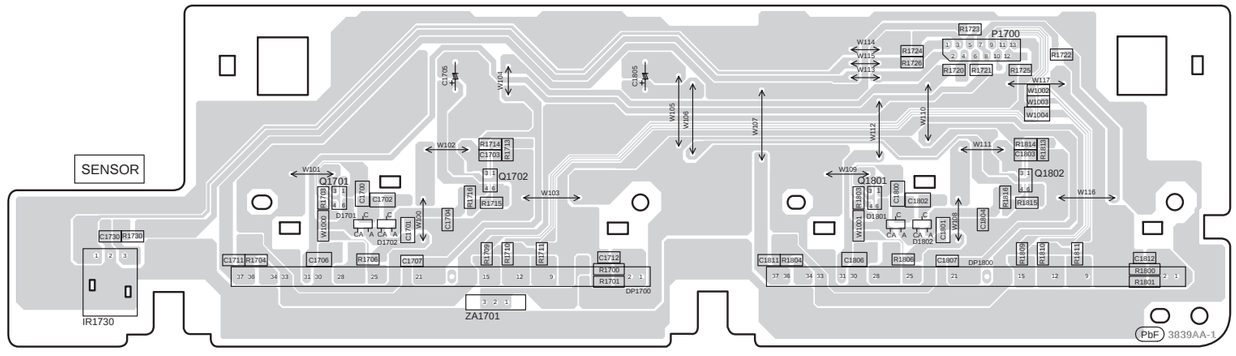
(SIDE B)

C ILLUMINATION RIGHT P.C.B. (REP5141HD)

(SIDE A)

(SIDE B)

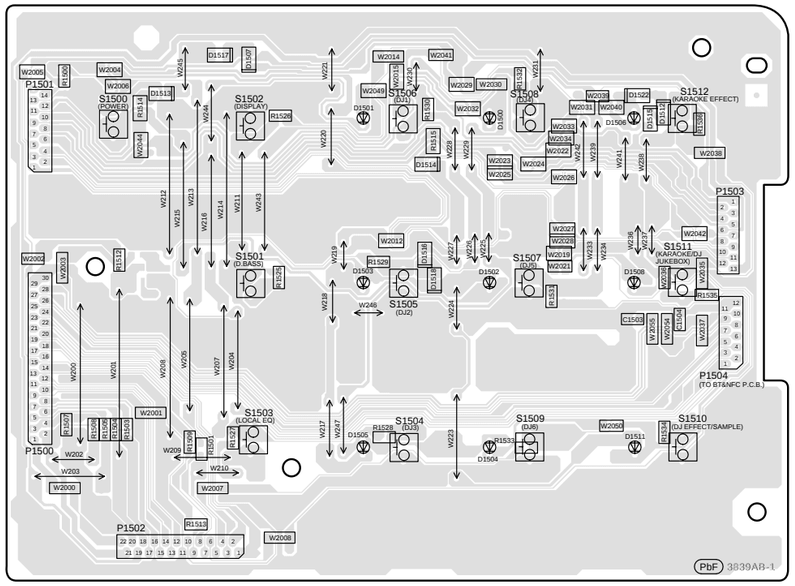
D FL DISPLAY P.C.B. (REP5142EA)



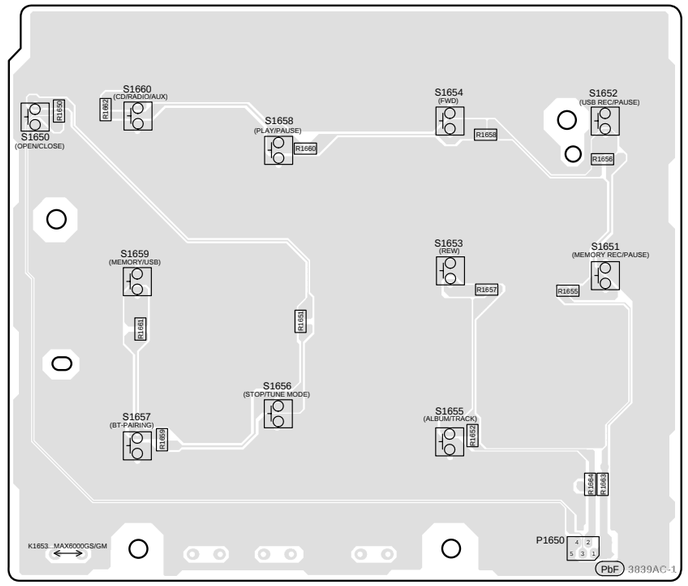
SA-MAX6000GS/GM
ILLUMINATION LEFT / ILLUMINATION RIGHT / FL DISPLAY P.C.B.

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

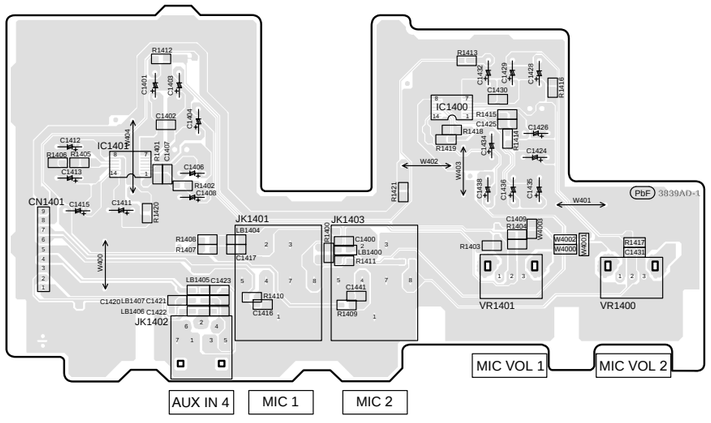
E BUTTON LEFT P.C.B. (REP5142EB)



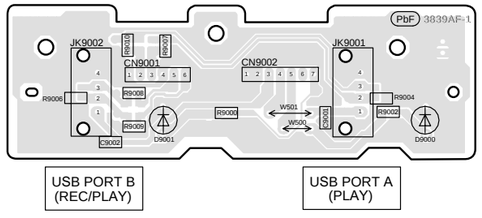
F BUTTON RIGHT P.C.B. (REP5142EC)



G MIC P.C.B. (REP5142ED)



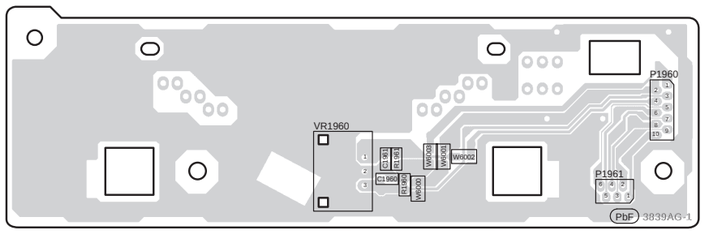
H USB P.C.B. (REP5142EF)



SA-MAX6000GS/GM
BUTTON LEFT / BUTTON RIGHT / MIC / USB P.C.B.

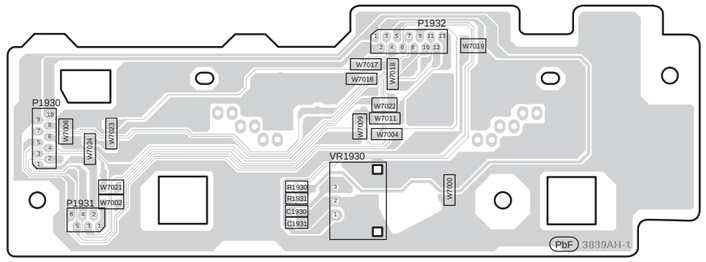
6.5. Volume Jog, Illumination Jog and Multi Control P.C.B.

I VOLUME JOG P.C.B. (REP5142EG)



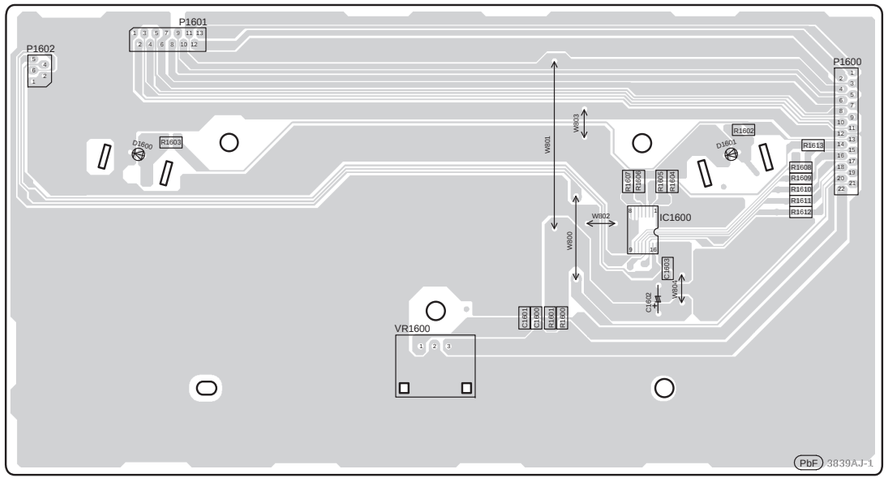
VOLUME

J ILLUMINATION JOG P.C.B. (REP5142EH)



ILLUMINATION

K MULTI CONTROL P.C.B. (REP5142EJ)



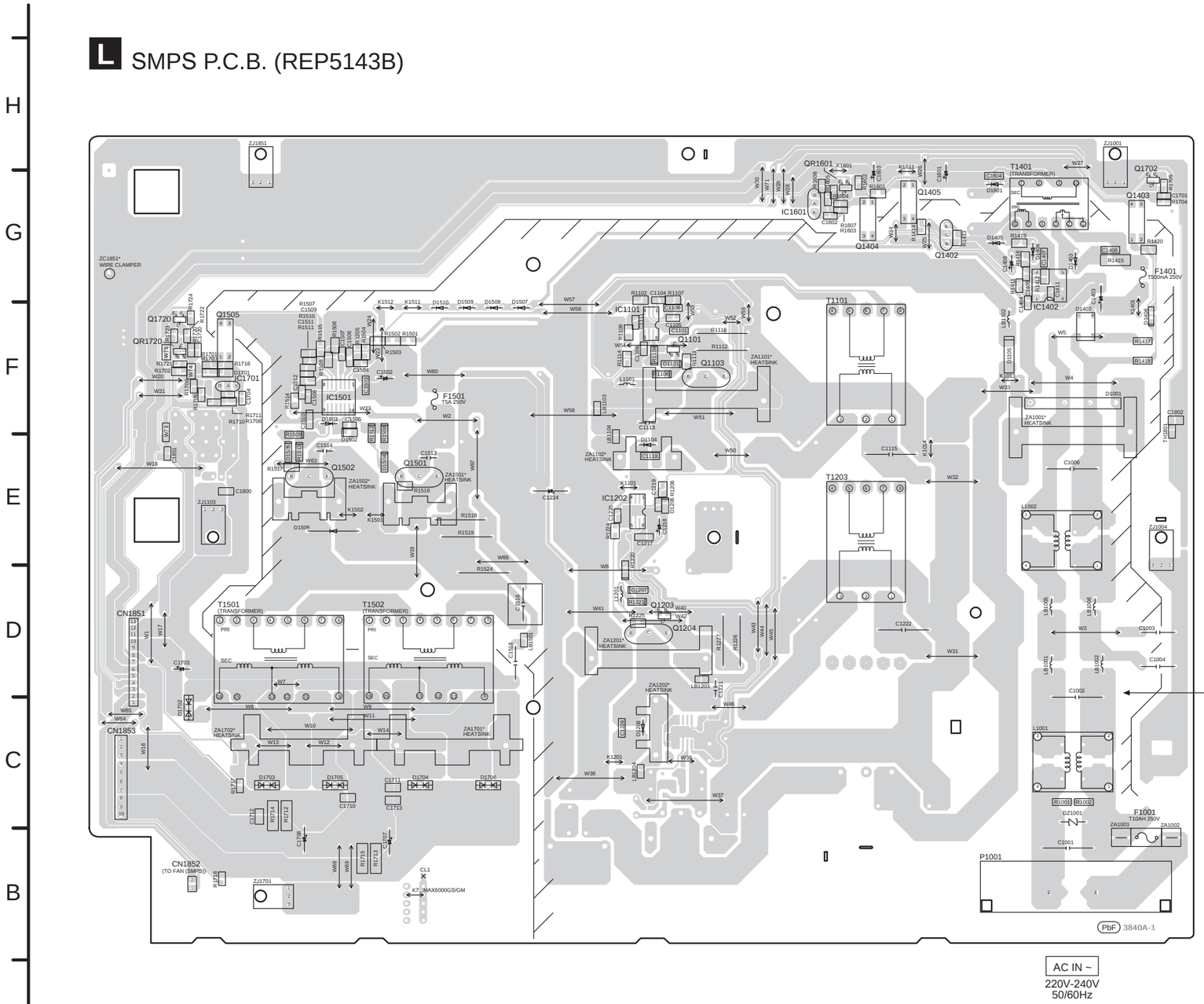
MULTI CONTROL

NOTE: " * " REF IS FOR INDICATION ONLY

SA-MAX6000GS/GM
VOLUME JOG / ILLUMINATION JOG / MULTI CONTROL P.C.B.

6.6. SMPS P.C.B.

L SMPS P.C.B. (REP5143B)

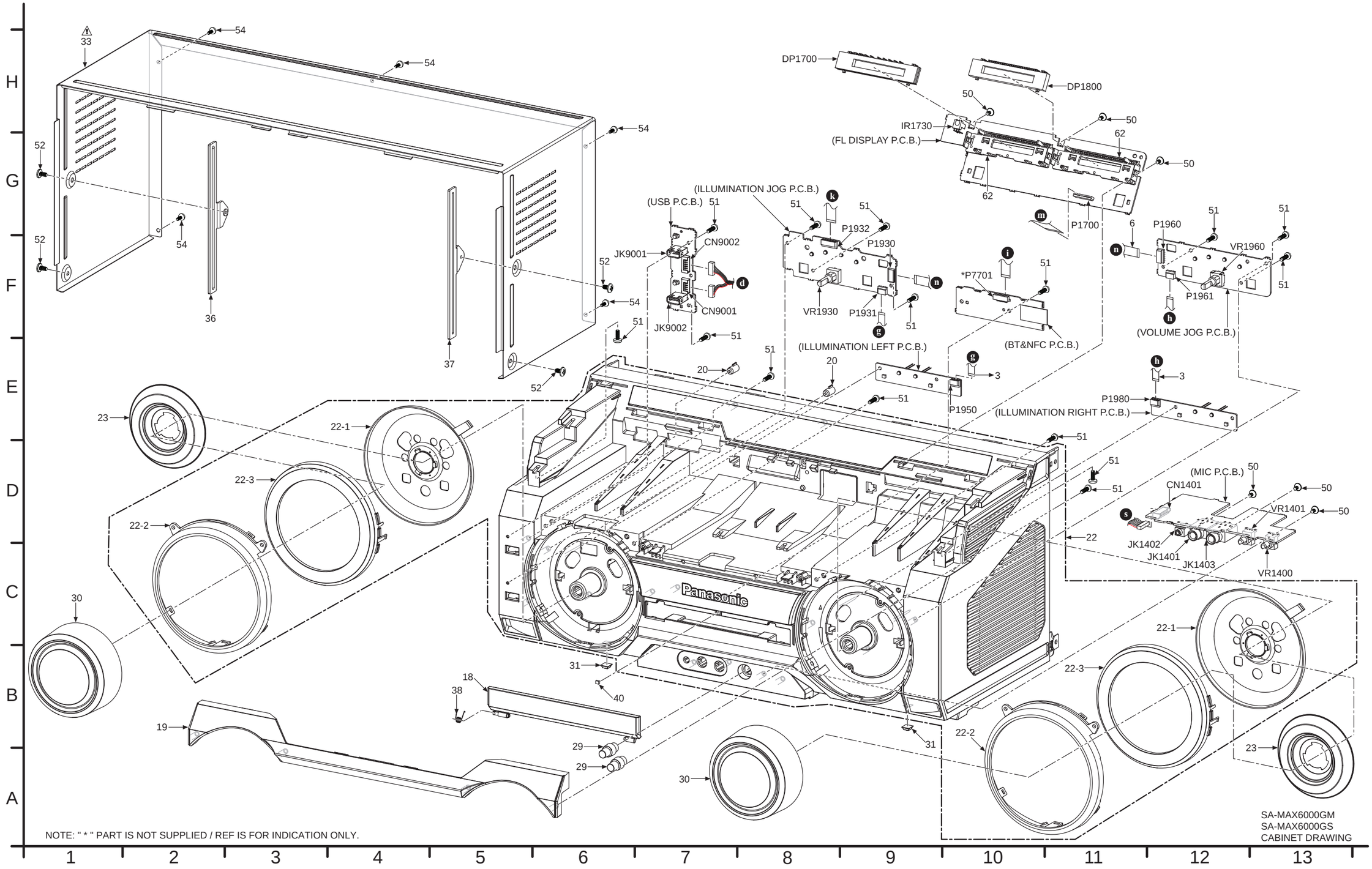


NOTE: " * " REF IS FOR INDICATION ONLY

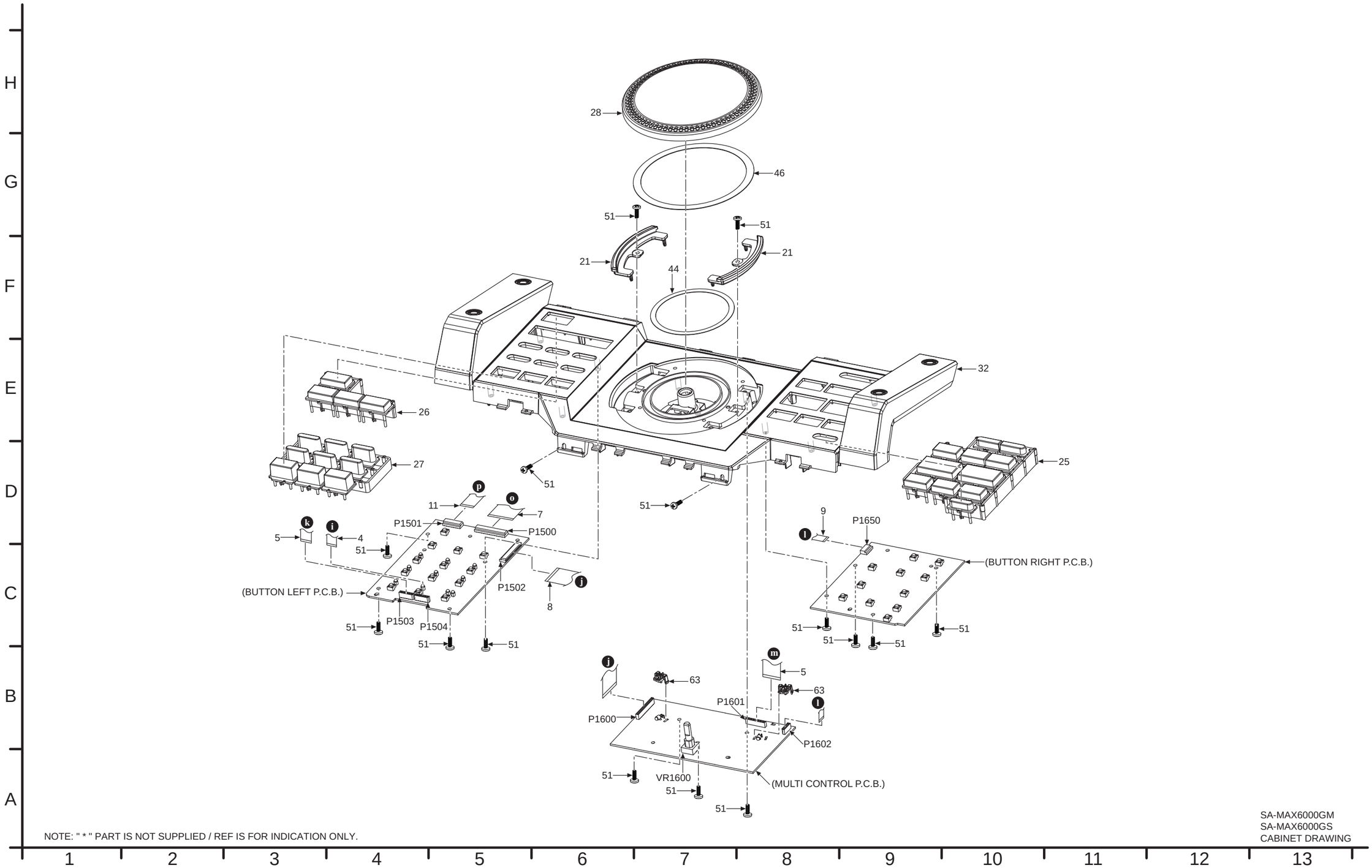
SA-MAX6000GS/GM
SMPS P.C.B.

7 Exploded View and Replacement Parts List

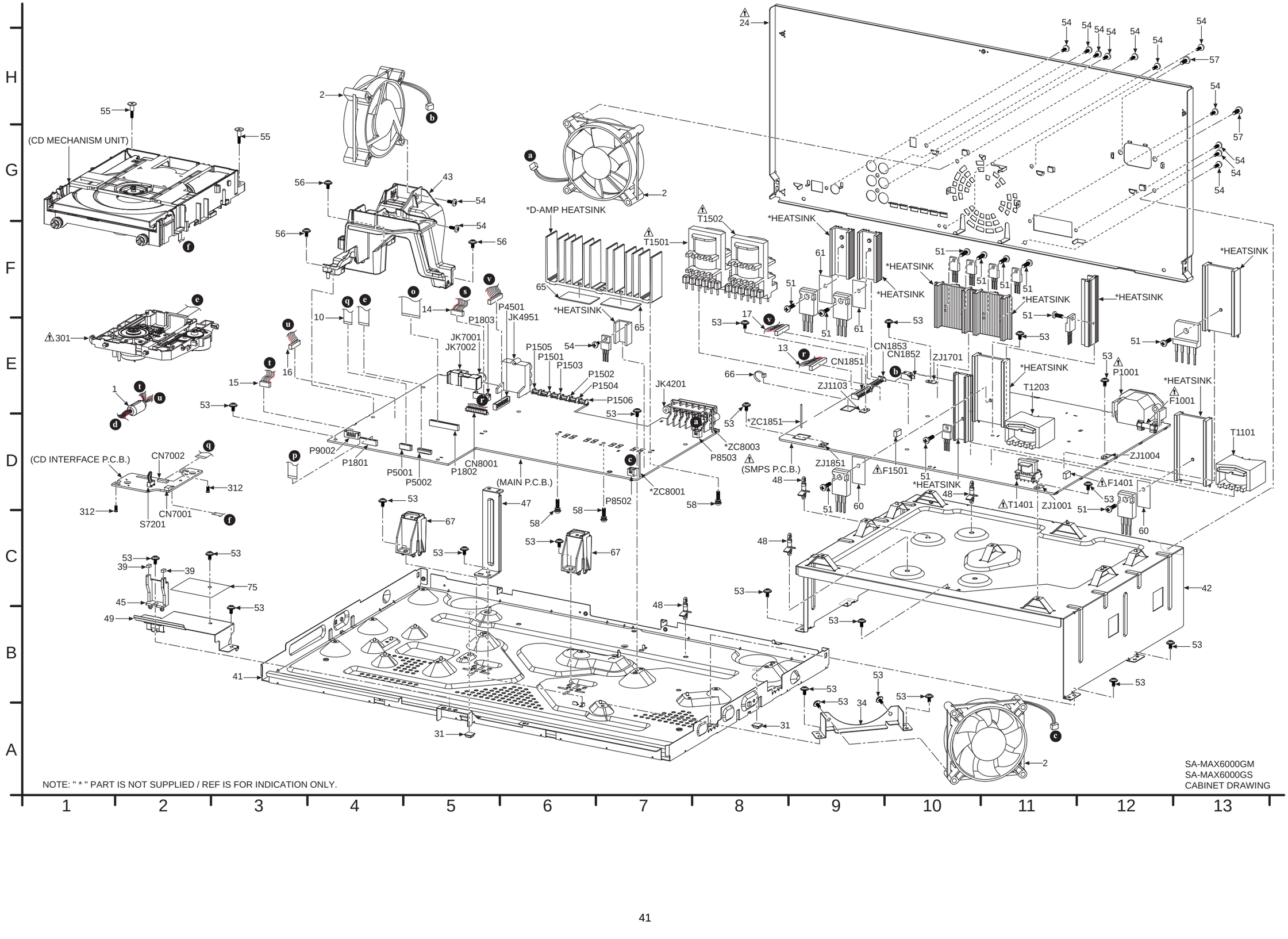
7.1. Cabinet Parts Location 1



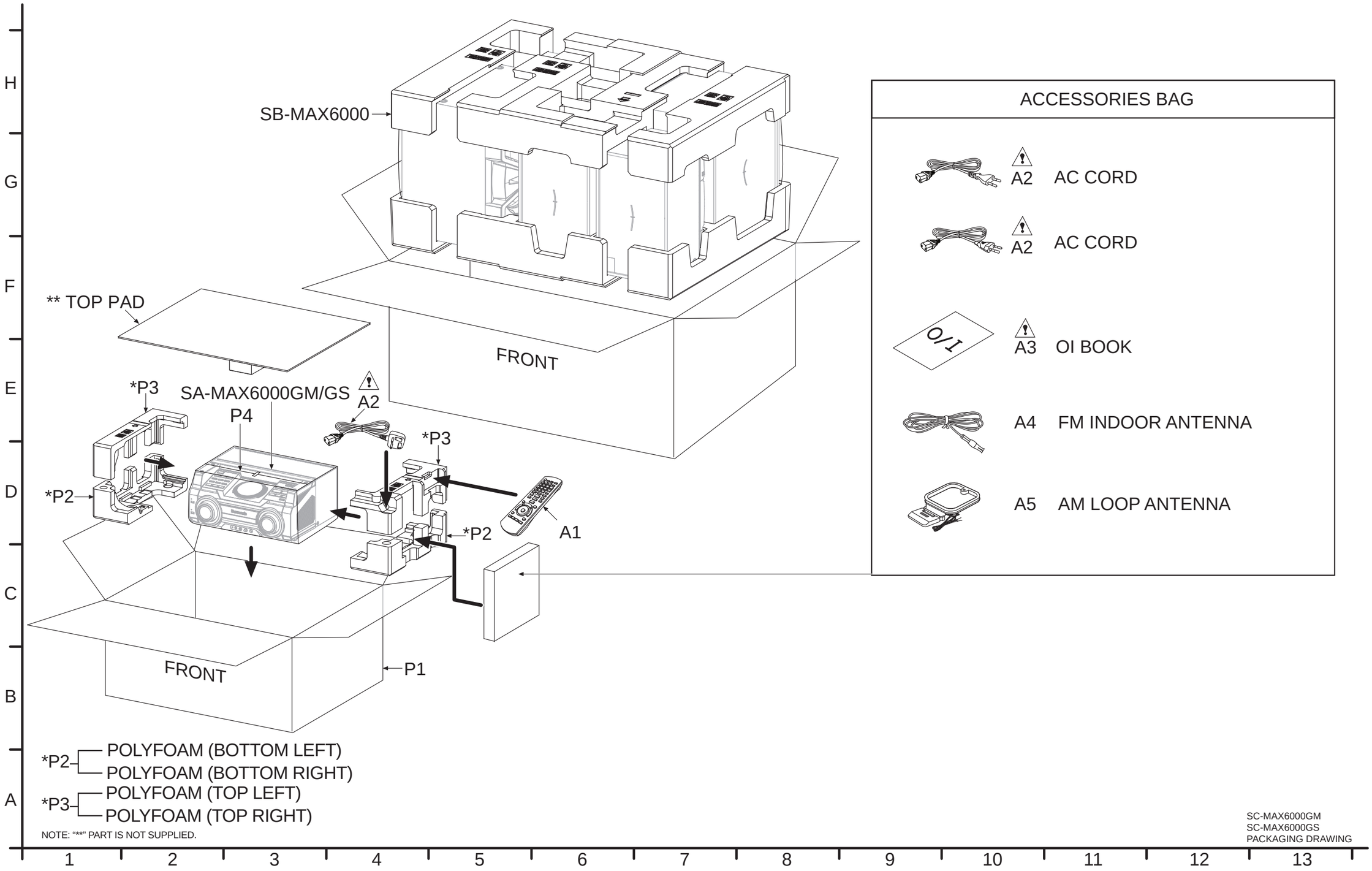
7.2. Cabinet Parts Location 2



7.3. Cabinet Parts Location 3



7.4. Packaging



7.5. 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-BLUETOOTH/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	
	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	RFKGAX6000GS	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	RGR0455K-A1	REAR PANEL	1	
	25	RGU2945B-W2	DJ BUTTON	1	
	26	RGU2946D-K	POWER BUTTON	1	
	27	RGU2947B-K	FUNCTION BUTTON	1	
	28	RGW0448-K	DJ TABLE	1	
	29	RGW0450-K	MIC VOLUME KNOB	2	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	30	RGW0459A-S	VOLUME KNOB	2	
	31	RKAX0042-K	LEG CUSHION	4	
	32	RFKKAX8000GS	DJ CABINET ASS'Y	1	
⚠	33	RKM0744-K2	TOP CABINET	1	
	34	RMA2489	FAN ANGLE	1	
	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 INSULA-TOR 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 HOLDER	2	
	75	RMA2515	SILICON STEEL PLATE	1	
			TRAVERSE DECK		
⚠	301	RAE1048Z-V	TRAVERSE ASS'Y	1	(E.S.D)
	312	XTN2+6GFJ	SCREW	2	
			PACKING MATERI-ALS		
	P1	RPG0P35	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	N1DYYYY00011	AM LOOP ANTENNA	1	

7.6. Electrical 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".
- 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-MAX6000PU	SA-MAX6000GM/GS			
	PCB1	RFKV5141FA	RFKV5141HA	MAIN P.C.B W/DATA	1	(E.S.D), JIGS & ADJ
	PCB3	RFKV5141FA	RFKV5141HA	BT&NFC P.C.B	1	(E.S.D), JIGS & ADJ
	PCB4	REP5141FC	REP5141EC	ILLUMINATION LEFT P.C.B	1	(RTL)
	PCB5	REP5141FC	REP5141ED	ILLUMINATION RIGHT P.C.B	1	(RTL)
	PCB6	REP5142DA	REP5142BA	FL DISPLAY P.C.B	1	(RTL)
	PCB7	REP5142DB	REP5142BB	BUTTON LEFT P.C.B	1	(RTL)
	PCB8	REP5142DC	REP5142BC	BUTTON RIGHT P.C.B	1	(RTL)
	PCB9	REP5142DD	REP5142BD	MIC P.C.B	1	(RTL)
	PCB10	REP5142DF	REP5142BF	USB P.C.B	1	(RTL)
	PCB11	REP5142DG	REP5142BG	VOLUME JOG P.C.B	1	(RTL)
	PCB12	REP5142DH	REP5142BH	ILLUMINATION JOG P.C.B	1	(RTL)
	PCB13	REP5142DJ	REP5142BJ	MULTI CONTROL P.C.B	1	(RTL)
⚠	PCB14	REP5143C	REP5143B	SMPS P.C.B	1	(RTL)
	IC1004	RFKWEX6000AM	RFKWEX8000AM	IC W/DATA	1	(E.S.D) JIGS & ADJ
	IC2001	RFKV5141FA	RFKB5141HA	IC	1	(E.S.D) JIGS & ADJ
	IC4001	-	C0ABBB000230	IC	1	(E.S.D)
	IC4801	-	C0DBGYY03252	IC	1	(E.S.D)
	IC4803	-	C1AB00003800	IC	1	(E.S.D)
	IC4841	-	C0JBAR000396	IC	1	(E.S.D)
	VR1400	-	EVUE27FK2B53	MIC VOL 2 JOG	1	
	CN1854	K1KA03BA0061	-	3P CONNECTOR	1	
	P7701	-	K1MN12BA0147	12P CONNECTOR	1	
	ZA1701	K1YF03000002	-	3P CABLE CONNECTOR	1	
⚠	L1001	G0B852L00001	G0B183J00002	LINE FILTER	1	
⚠	L1002	-	G0B183J00002	LINE FILTER	1	
	LB1001	-	J0JKB0000015	INDUCTOR	1	
	LB1002	-	J0JKB0000015	INDUCTOR	1	
	LB1005	-	J0JKB0000015	INDUCTOR	1	
	LB1006	-	J0JKB0000015	INDUCTOR	1	
	LB1102	-	J0JKB0000015	INDUCTOR	1	
	LB1400	-	J0JBC0000019	INDUCTOR	1	
	LB4801	-	J0JYC0000656	INDUCTOR	1	
	LB4802	-	J0JYC0000656	INDUCTOR	1	

Safety	Ref. No.	Parts No.		Parts name & Description	Qty	Remarks
		SA-MAX6000PU	SA-MAX6000GM/GS			
	X4801	-	H0J245500110	OSCILLATOR	1	
	ZJ8001	K9ZZ00001279	-	EARTH PLATE	1	
	ZJ8003	K9ZZ00001279	-	EARTH PLATE	1	
	JK1401	-	K2HB107B0001	JK MIC 1	1	
	JK4951	-	K2HA208B0006	JK AUX IN 1/2/3	1	
	JK4952	K2HA2YYA0006	-	JK AUX IN1	1	
	K1400	D0GBR00J0004	-	0 1/10W	1	
	K1401	D0GBR00J0004	-	0 1/10W	1	
	K1402	D0GBR00J0004	-	0 1/10W	1	
	W75	ERJ6GEY0R00V	-	0 1/8W	1	
	R1010	D0GA221JA023	-	220 1/16W	1	
	R1033	D0GB103JA065	D0GB203JA065	20K 1/10W	1	
	R1153	D0GBR00J0004	-	0 1/10W	1	
	R1154	-	D0GBR00J0004	0 1/10W	1	
	R1213	-	D0GBR00J0004	0 1/10W	1	
	R1214	-	D0GBR00J0004	0 1/10W	1	
	R1225	-	D0GBR00J0004	0 1/10W	1	
	R1301	-	D0GB201JA065	200 1/10W	1	
	R1400	-	D0GB681JA065	680 1/10W	1	
	R1410	-	D0GBR00J0004	0 1/10W	1	
	R1411	-	D0GB561JA065	560 1/10W	1	
	R1413	-	D0GB681JA065	680 1/10W	1	
	R1414	-	D0GB222JA065	2.2K 1/10W	1	
	R1415	-	D0GB153JA065	15K 1/10W	1	
	R1416	-	D0GB101JA065	100 1/10W	1	
	R1417	-	D0GB472JA065	4.7K 1/10W	1	
	R1418	-	D0GB682JA065	6.8K 1/10W	1	
	R1419	-	D0GB104JA065	100K 1/10W	1	
	R1421	-	D0GB221JA065	220 1/10W	1	
	R1508	ERJ14YJ4R7U	ERJ14YJ220U	22 1/2W	1	
	R1509	ERJ14YJ4R7U	ERJ14YJ220U	22 1/2W	1	
	R1852	D0GB393JA065	-	39K 1/10W	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	
	R4918	-	D0GB822JA065	8.2K 1/10W	1	
	R4919	-	D0GB822JA065	8.2K 1/10W	1	
	C14	-	F1G1H1R5A831	1.5pF 50V	1	
	C15	-	F1G0J1050007	1uF 6.3V	1	
	C16	-	F1G1HR90A810	0.90pF 50V	1	

Safety	Ref. No.	Parts No.		Parts name & Description	Qty	Remarks
		SA-MAX6000PU	SA-MAX6000GM/GS			
	C17	-	F1G1HR90A810	0.90pF 50V	1	
⚠	C1003	-	F1BAF1020030	1000pF	1	
⚠	C1004	-	F1BAF1020030	1000pF	1	
⚠	C1006	-	F0CAF104A105	0.1uF	1	
	C1118	F1K2J471A014	F1K2J102A014	1000pF 630V	1	
	C1226	F1K2J471A014	F1K2J102A014	1000pF 630V	1	
	C1303	-	F1G1H120A789	12pF 50V	1	
	C1304	-	F1G1H681A541	680pF 50V	1	
	C1305	-	F1G1A1050004	1uF 10V	1	
	C1306	-	F1H1A2250003	2.2uF 10V	1	
	C1400	-	F1H1H102B047	1000pF 50V	1	
	C1416	-	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	
	C7701	-	F1G1A1040006	0.1uF 10V	1	

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