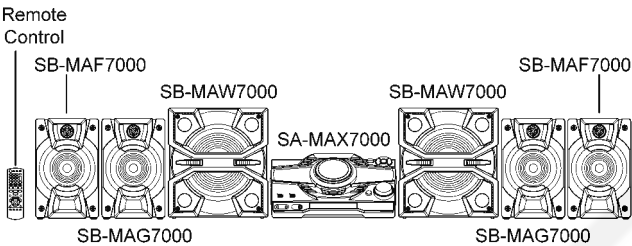


Service Manual

CD Stereo System

Model No. **SA-MAX7000E**
SA-MAX7000GM
SA-MAX7000GS

Product Color: (K)...Black Type



Notes: Please use this manual together with service manual

Model No. SA-MAX7000PU, Order no. PSG1603006AE.

- **Speaker system SB-MAX7000E/GM, Order No: PSG1605023AE**
- **Speaker system SB-MAX7000GS, Order No: PSG1603008CE**

⚠ 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 simplified service manual is base on SA-MAX7000PU (Order No. PSG1603006AE).

1) This service manual contains only following information

- Safety Precautions
- Specifications
- Locations of Controls and Components
- 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 Ω , 10 watts resistor, in parallel with a 0.15 μ 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.

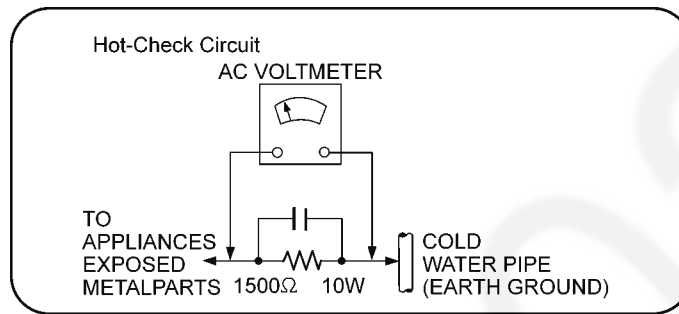


Figure 1-1

2.2. Before Repair and Adjustment

Disconnect AC power to discharge AC Capacitors (C1003, C1004, C1005, C1007, C1008, C1009, C1010) 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 Power ON, FM Tuner at volume minimal mode should be ~ 500 mA.

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 AC Cord (For GS)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.

A 5-ampere fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark  or the BSI mark  on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local dealer.

CAUTION!

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY. THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted please observe the wiring code as stated below.

If in any doubt please consult a qualified electrician.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral, Brown: Live.

As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black or Blue.

The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL  OR COLOURED GREEN OR GREEN/YELLOW.

THIS PLUG IS NOT WATERPROOF—KEEP DRY.

Before use

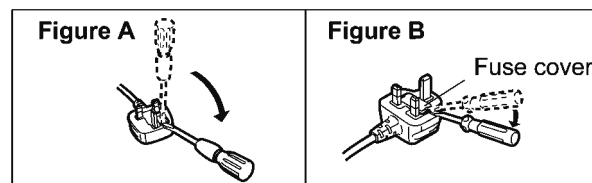
Remove the connector cover.

How to replace the fuse

The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.

Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.



2. Replace the fuse and close or attach the fuse cover.

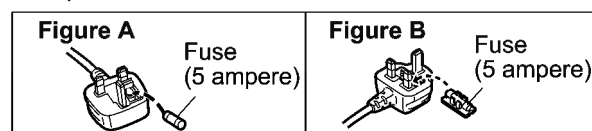


Figure 1-3

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
⚠	14	RGR0484D-A	REAR PANEL	GM,GS
⚠	14	RGR0484D-B	REAR PANEL	E
⚠	19	RKM0771-K	TOP CABINET	
⚠	301	RAE1052Z-V	TRAVERSE ASS'Y	(E.S.D)
⚠	A1	RFA3678	AC CORD	GS,GM
⚠	A1	K2CT2YY00103	AC CORD	E,GS,GM
⚠	A3	RQT0A66-G	O/I BOOK (En/Cn/Ar)	GS,GM
⚠	A3	RQT0A67-D	O/I BOOK (Ge/Fr/It/Du)	E
⚠	A3	RQT0A73-R	O/I BOOK (En/Po/Cz)	E
⚠	PCB7	REP5317C	SMPS P.C.B	(RTL) , PR
⚠	PCB7	REP5317D	SMPS P.C.B	(RTL) , E, GM, GS
⚠	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)
⚠	Q1701	B3PBA0000579	PHOTO COUPLER	(E.S.D)
⚠	DZ1001	D4EAY511A127	VARISTOR	(E.S.D)
⚠	L1001	G0B333K00001	LINE FILTER	E,GS,GM
⚠	L1002	G0B183J00002	LINE FILTER	E,GS,GM
⚠	T1401	G4DYA0000688	TRANSFORMER	
⚠	T1501	G4DYA0000784	TRANSFORMER	
⚠	F1001	K5D103BNA005	FUSE	
⚠	F1401	K5G501YA0081	FUSE	
⚠	F1501	K5G502YA0159	FUSE	
⚠	P1001	K2AZYA000005	AC INLET	
⚠	R1001	D0GF105JA048	1M 1/4W	SMPS
⚠	R1002	D0GF474JA048	470K 1/4W	SMPS (E,GM,G S)
⚠	C1003	F1BAF1020030	1000pF	SMPS
⚠	C1004	F1BAF1020030	1000pF	SMPS
⚠	C1005	F1BAF1020030	1000pF	SMPS (E,GM,G S)
⚠	C1007	F1BAF4710005	470pF	SMPS (E,GM,G S)
⚠	C1009	F0CAF105A105	1uF	SMPS (E,GM,G S)
⚠	C1010	F0CAF104A105	0.1uF	SMPS (E,GM,G S)

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	800 W per channel (6 Ω), 100 Hz, 30% THD
Total RMS stereo mode power	3000 W

■ Tuner

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)

■ 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	4 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)

■ 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) 460 mm x 234 mm x 409 mm

Mass 6.0 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:

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-MAX7000E

Main Unit: SA-MAX7000E
Speaker Systems: SB-MAX7000E

■ System: SC-MAX7000GM

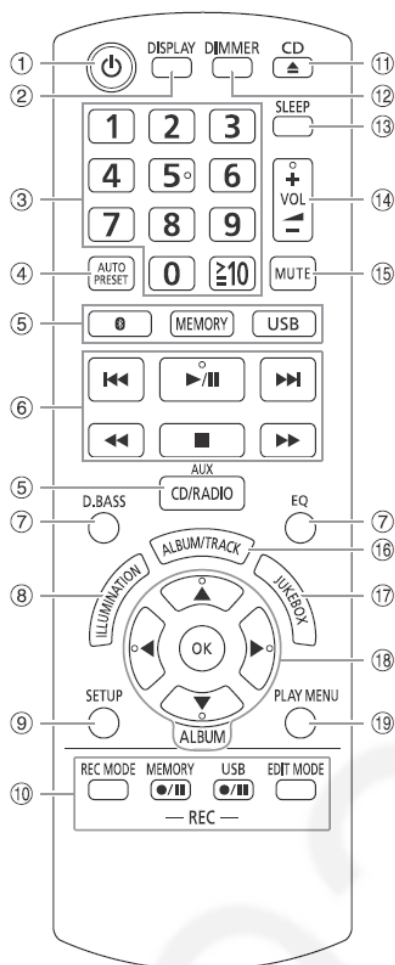
Main Unit: SA-MAX7000GM
Speaker Systems: SB-MAX7000GM

■ System: SC-MAX7000GS

Main Unit: SA-MAX7000GS
Speaker Systems: SB-MAX7000GS

4 Location of Controls and Components

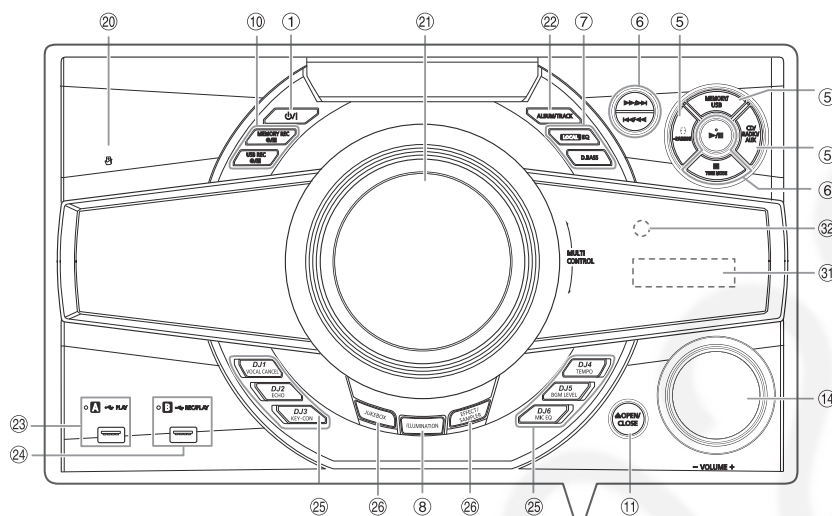
4.1. Remote Control Key Button Operation



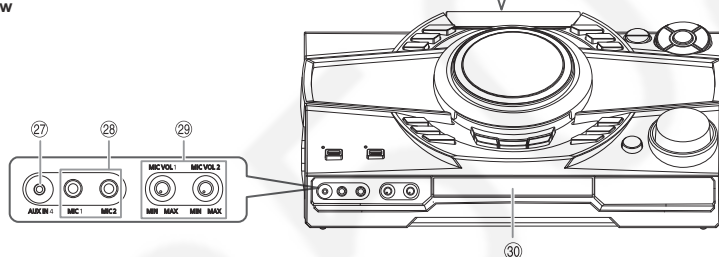
- ① **Standby/on switch** [⏻], [⏻/⏺]
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.
- ② View the content information
- ③ **Numeric buttons**
To select a 2-digit number
Example: 16: [10] → [1] → [6]
- ④ Auto preset the radio station
- ⑤ **Select the audio source**
On the main unit:
To start Bluetooth® pairing, press and hold [BT-PAIRING].
- ⑥ Basic playback control
- ⑦ Select the sound effects
- ⑧ Select the illumination effects
- ⑨ View the setup menu
- ⑩ Recording operation control
- ⑪ Open or close the disc tray
- ⑫ **Decrease the brightness of the display panel**
To cancel, press the button again.
- ⑬ Set the sleep timer
- ⑭ Adjust the volume level
- ⑮ **Mute the sound**
To cancel, press the button again.
“MUTE” is also canceled when you adjust the volume or when you switch off the system.
- ⑯ Select MP3 album or track
- ⑰ Select DJ jukebox
- ⑱ Select or confirm the option
- ⑲ View the play menu

4.2. Main Unit Key Button Operation

Top View



Front View



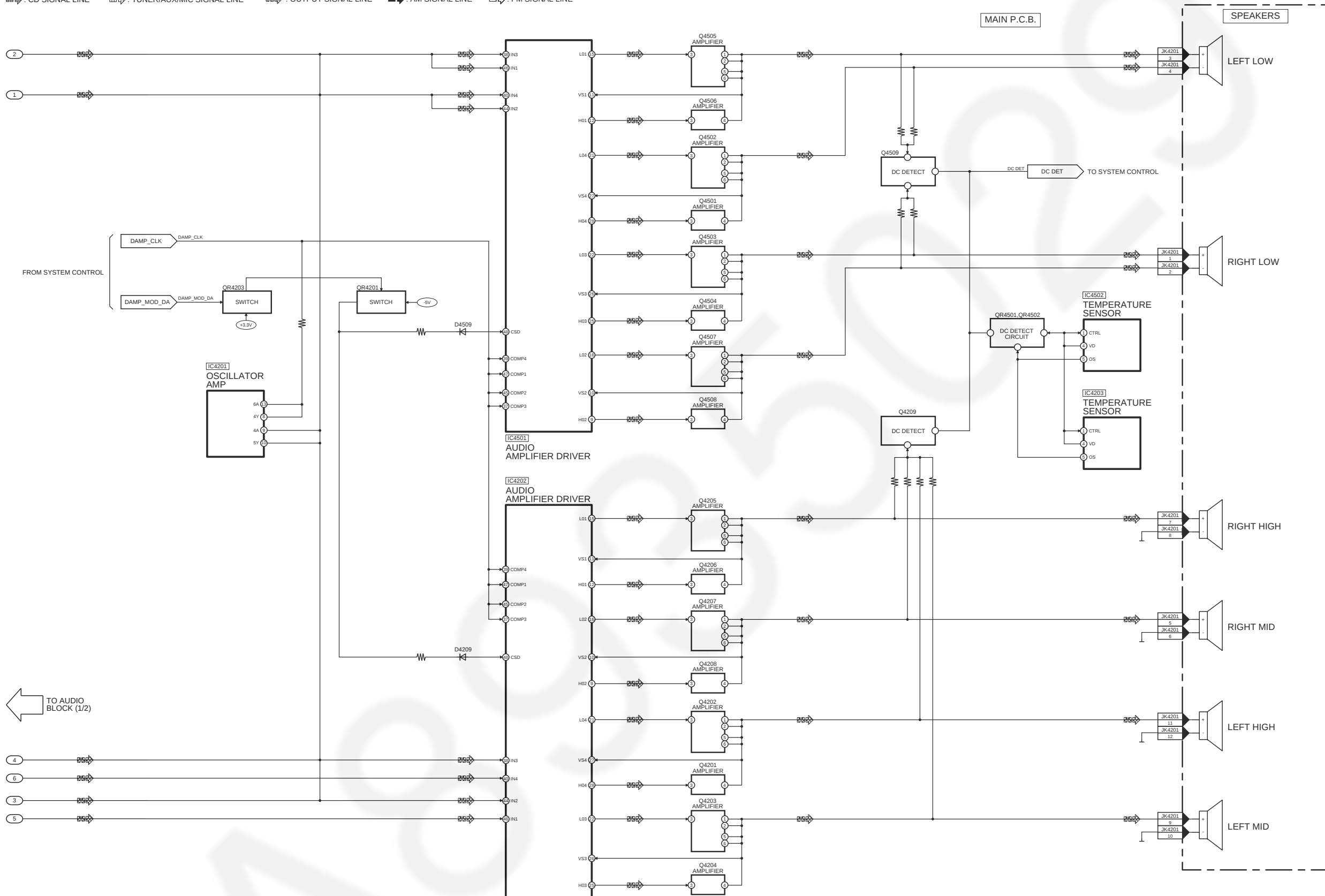
- ① **Standby/on switch** [⏻], [⏻/⏺]
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.
- ⑤ **Select the audio source**
On the main unit:
To start Bluetooth® pairing, press and hold [BT]-PAIRING].
- ⑥ Basic playback control
- ⑦ Select the sound effects
- ⑧ Select the illumination effects
- ⑩ Recording operation control
- ⑪ Open or close the disc tray
- ⑭ Adjust the volume level
- ⑳ NFC touch area
- ㉑ Turntable for DJ and multi control
- ㉒ **Select MP3 album or track**
Press [ALBUM/TRACK] to select album or track.
Browse tracks or albums
Turn [MULTI CONTROL] to browse.
To start playback from the selection, press [▶/||].
- ㉓ **USB A**
USB port (⏻)
USB status indicator
Play MP3 tracks.
- ㉔ **USB B**
USB port (⏻)
USB status indicator
Play MP3 tracks.
Record sound or music tracks.
- ㉕ **Select the Karaoke effect**
DJ function direct buttons
Press [JUKEBOX] or [EFFECT/SAMPLER] to switch on the DJ or Karaoke function.
Press [DJ1] to [DJ6] on the main unit to select the desired function.
To cancel, press the selected [DJ1] to [DJ6] again.
- ㉖ **Switch on the Karaoke or DJ function**
To cancel, press the button again.
- ㉗ AUX IN jack
- ㉘ Microphone jack
- ㉙ Adjust the microphone volume level

CAUTION!

Keep the microphone volume knob out of reach of children to prevent swallowing.

- ㉚ Disc tray
- ㉛ Display panel
- ㉜ **Remote control sensor**
Distance: Within approximately 7 m
Angle: Approximately 20° up and down,
30° left and right

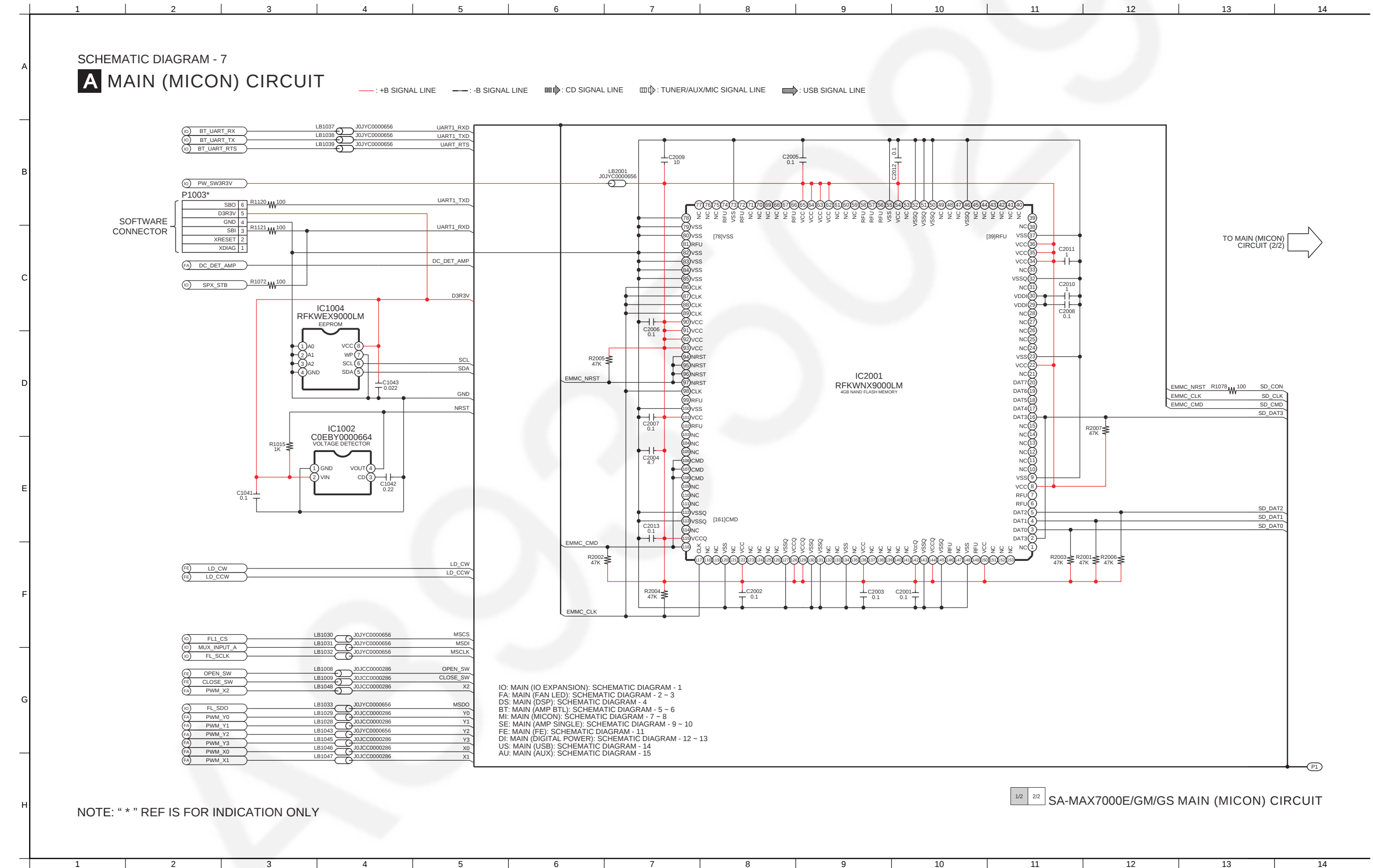
: CD SIGNAL LINE
 : TUNER/AUX/MIC SIGNAL LINE
 : OUTPUT SIGNAL LINE
 : AM SIGNAL LINE
 : FM SIGNAL LINE



SA-MAX9000GM/GS AUDIO (2/2) BLOCK DIAGRAM

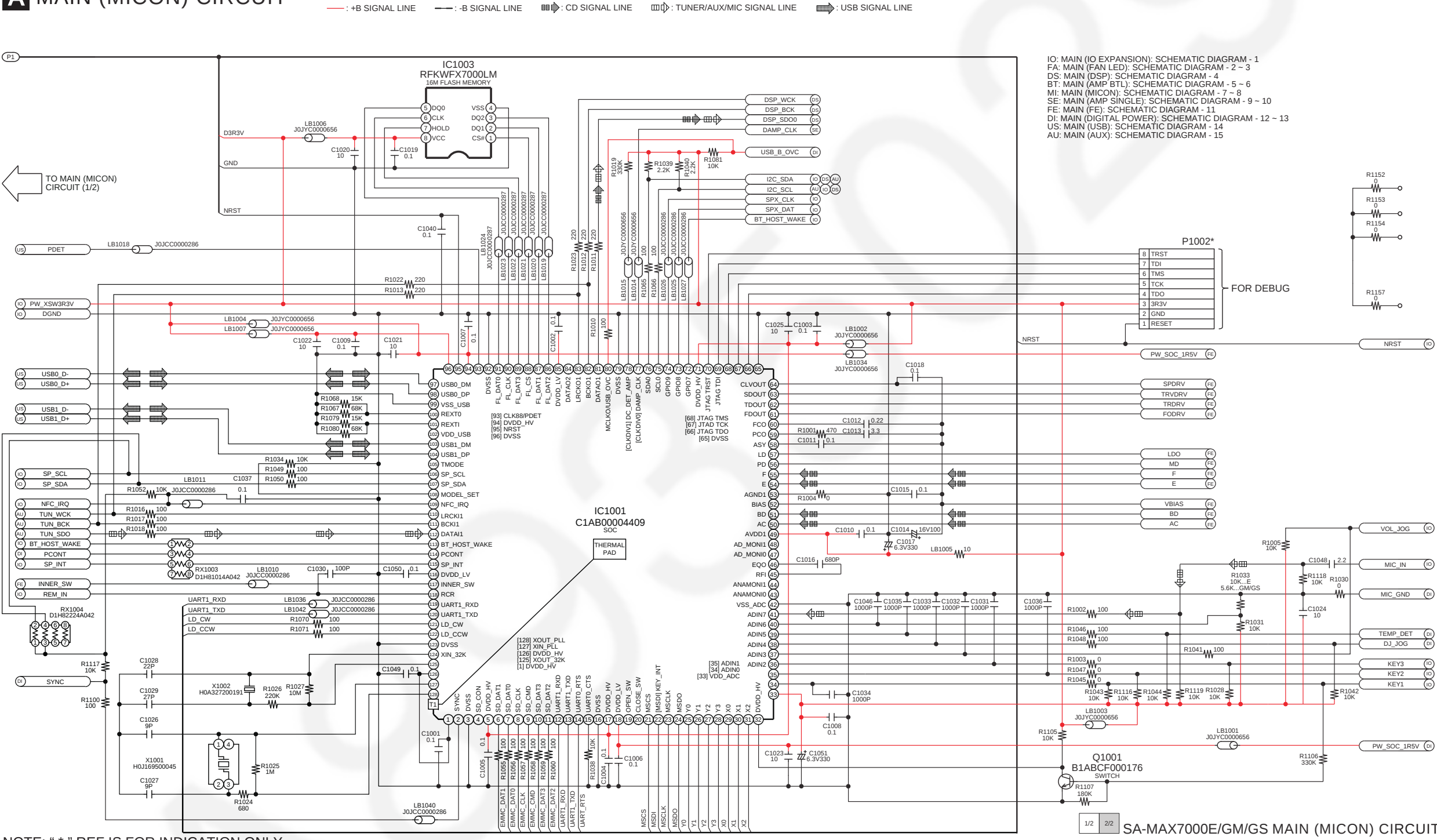
6 Schematic Diagram

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



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

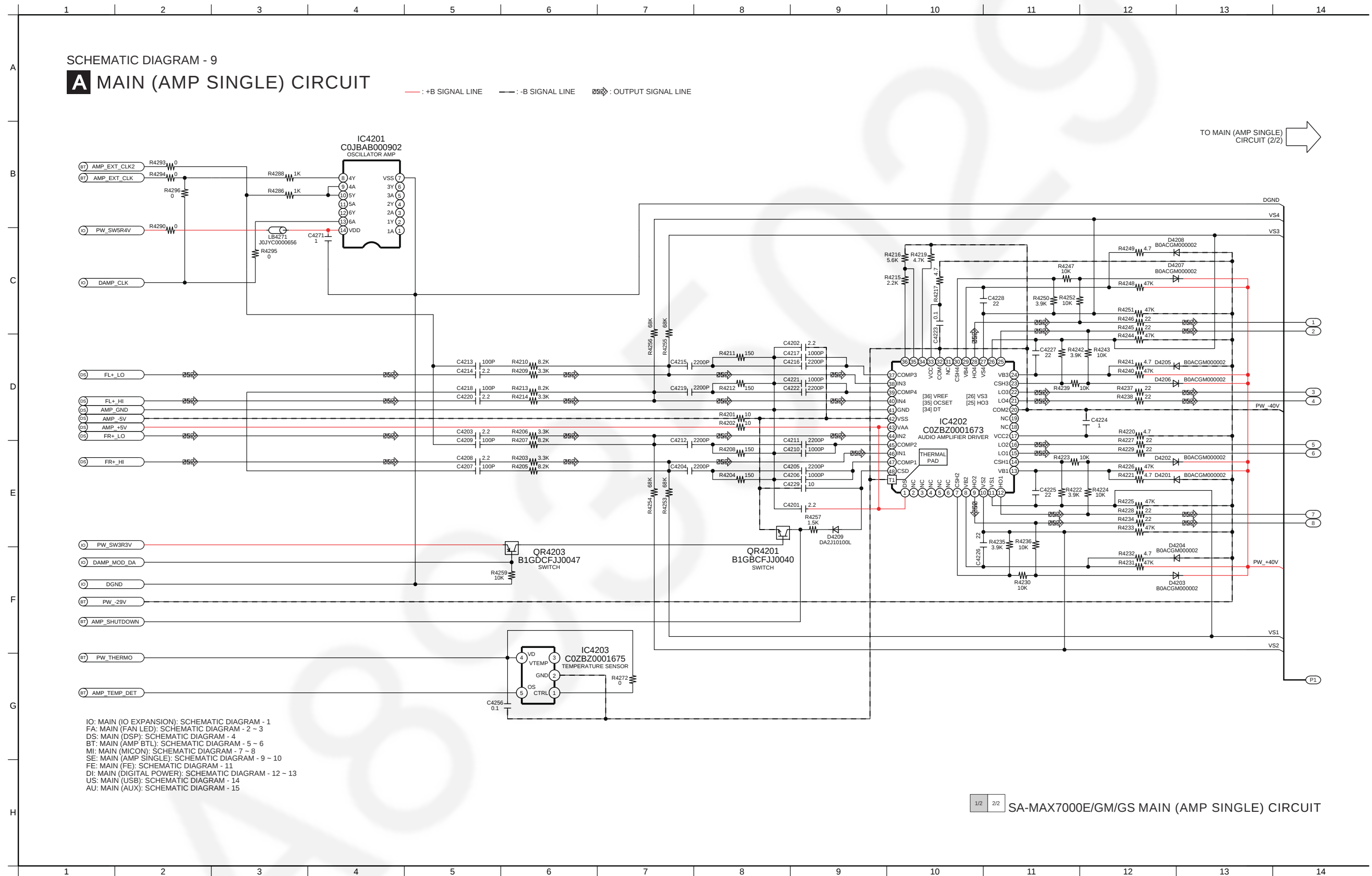
SCHEMATIC DIAGRAM - 8
A MAIN (MICON) CIRCUIT



NOTE: " * " REF IS FOR INDICATION ONLY

SA-MAX7000E/GM/GS MAIN (MICON) CIRCUIT

6.3. Main (AMP Single) Circuit (1/2)

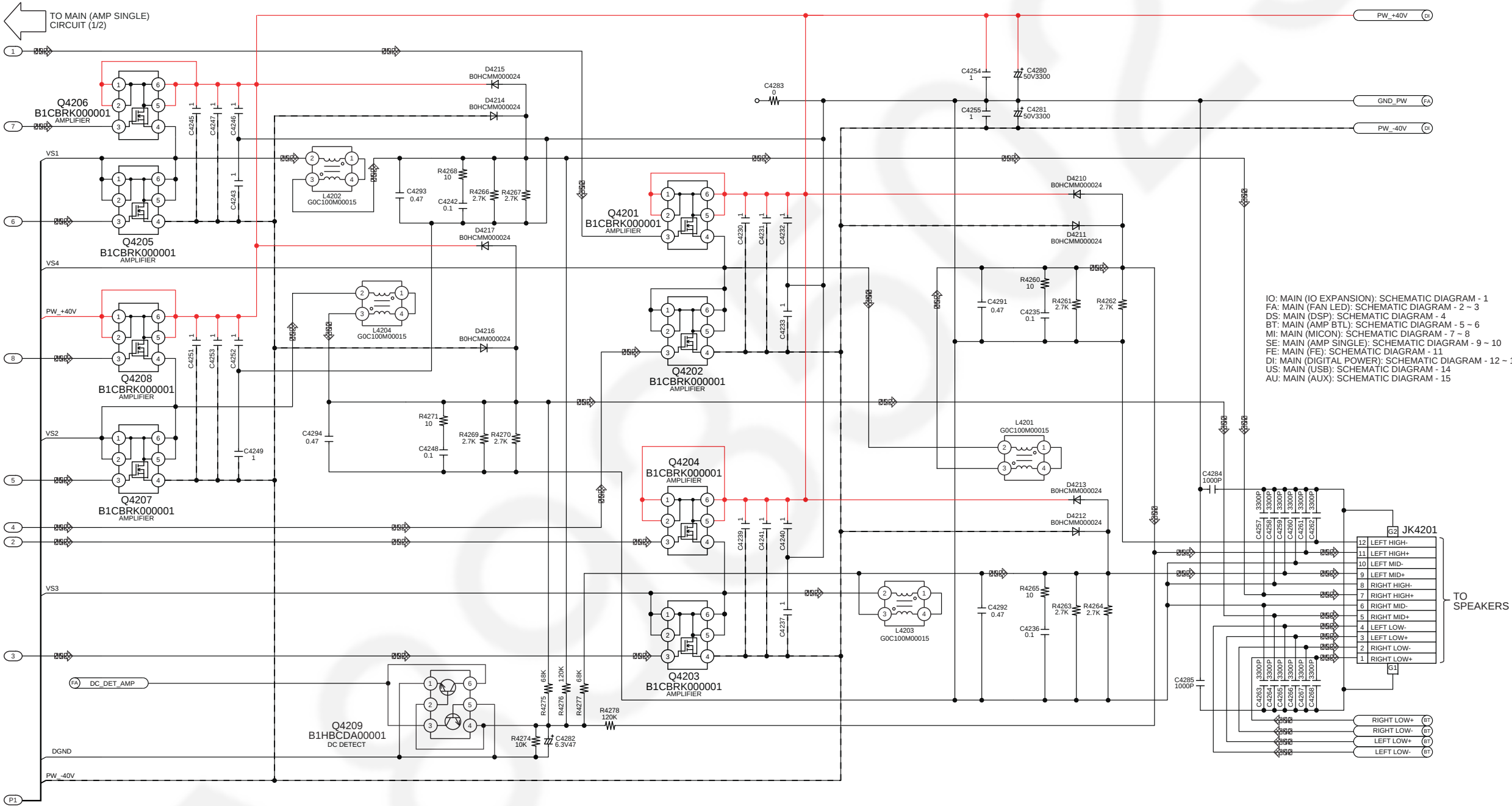


6.4. Main (AMP Single) Circuit (2/2)

SCHEMATIC DIAGRAM - 10

A MAIN (AMP SINGLE) CIRCUIT

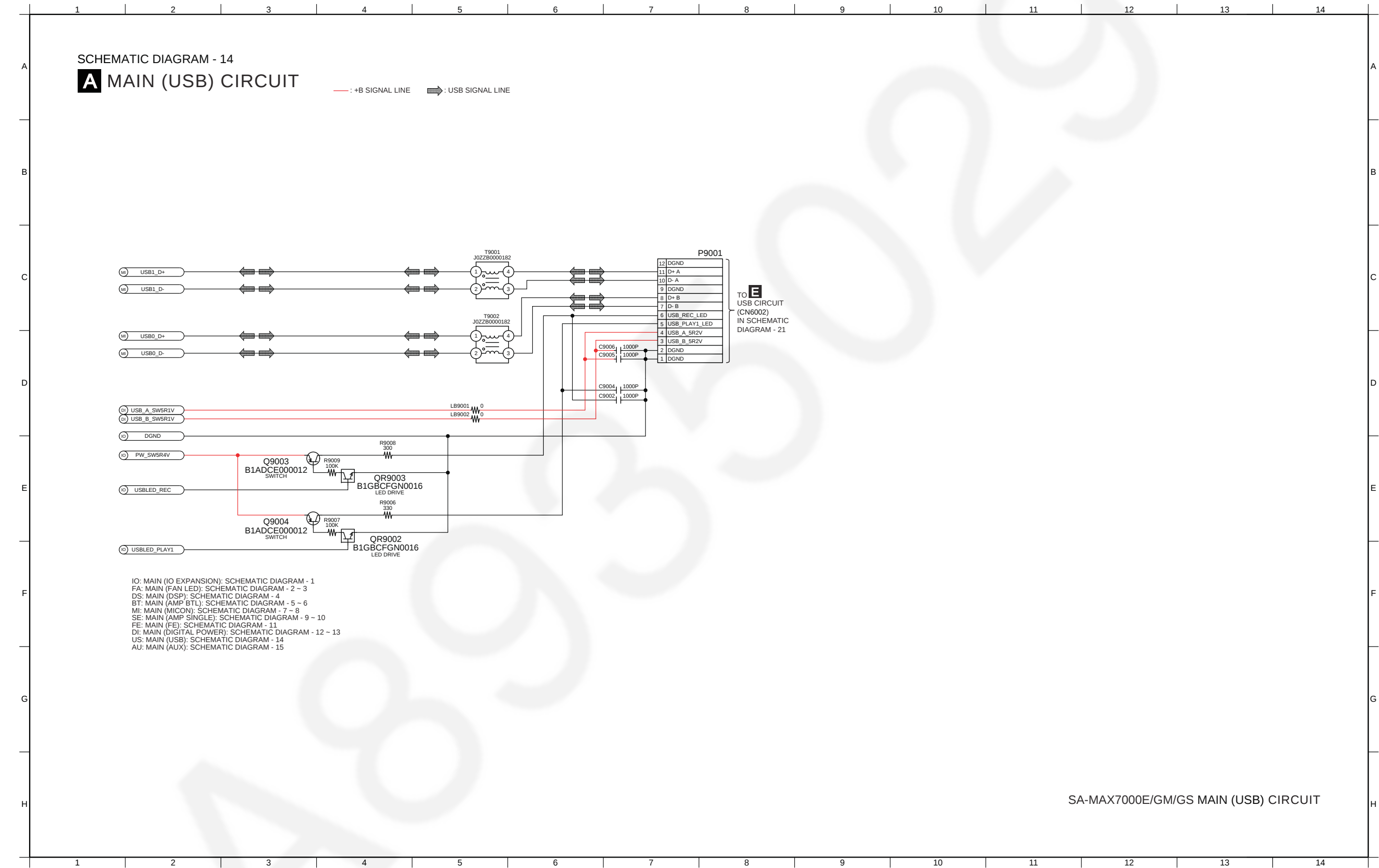
— : +B SIGNAL LINE — : -B SIGNAL LINE  : OUTPUT SIGNAL LINE



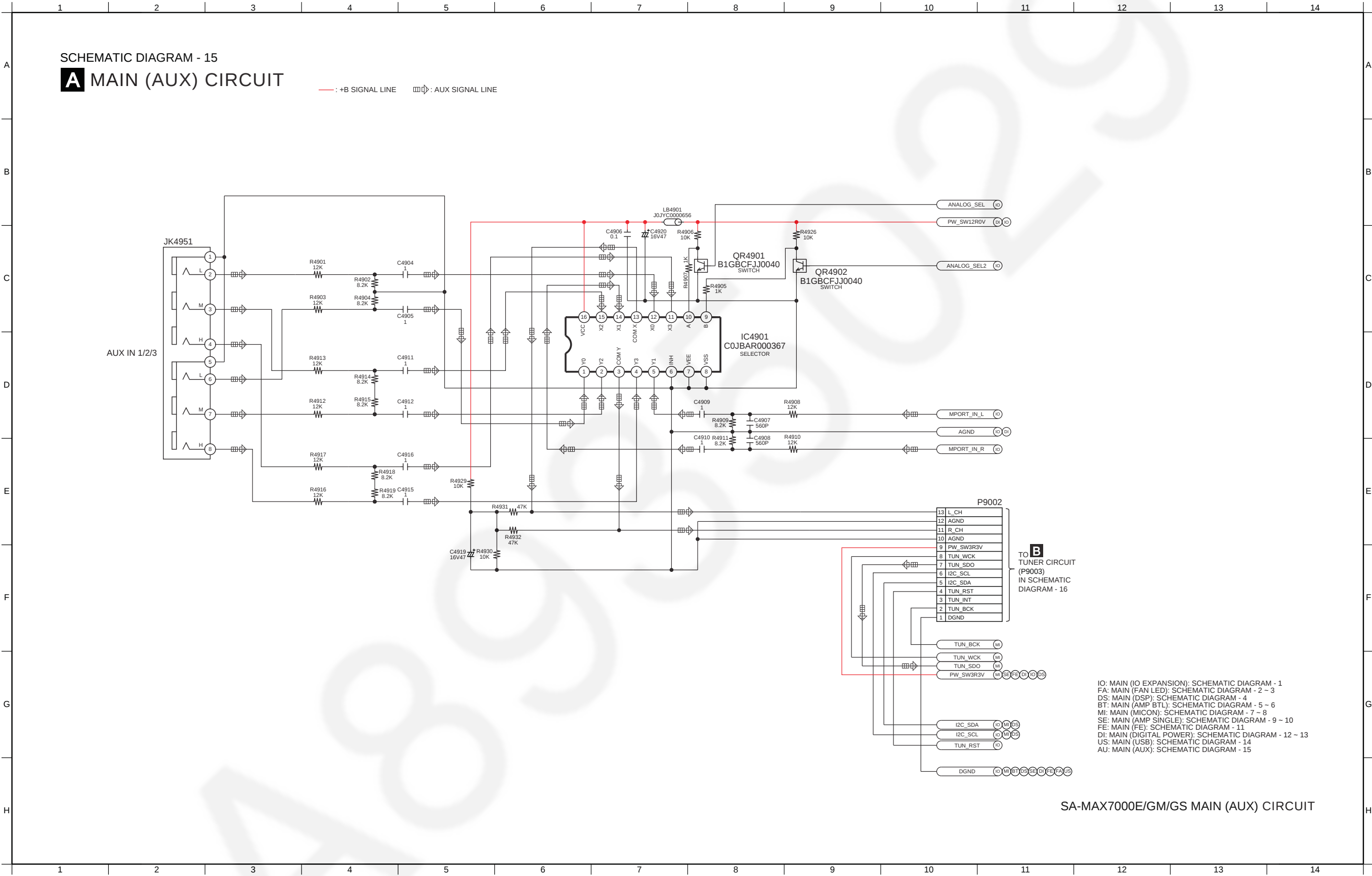
IO: MAIN (IO EXPANSION): SCHEMATIC DIAGRAM - 1
FA: MAIN (FAN LED): SCHEMATIC DIAGRAM - 2 ~ 3
DS: MAIN (DSP): SCHEMATIC DIAGRAM - 4
BT: MAIN (AMP BTL): SCHEMATIC DIAGRAM - 5 ~ 6
MI: MAIN (MICON): SCHEMATIC DIAGRAM - 7 ~ 8
SE: MAIN (AMP SINGLE): SCHEMATIC DIAGRAM - 9 ~ 10
FE: MAIN (FE): SCHEMATIC DIAGRAM - 11
DI: MAIN (DIGITAL POWER): SCHEMATIC DIAGRAM - 12 ~ 13
US: MAIN (USB): SCHEMATIC DIAGRAM - 14
AU: MAIN (AUX): SCHEMATIC DIAGRAM - 15

1/2 2/2 SA-MAX7000E/GM/GS MAIN (AMP SINGLE) CIRCUIT

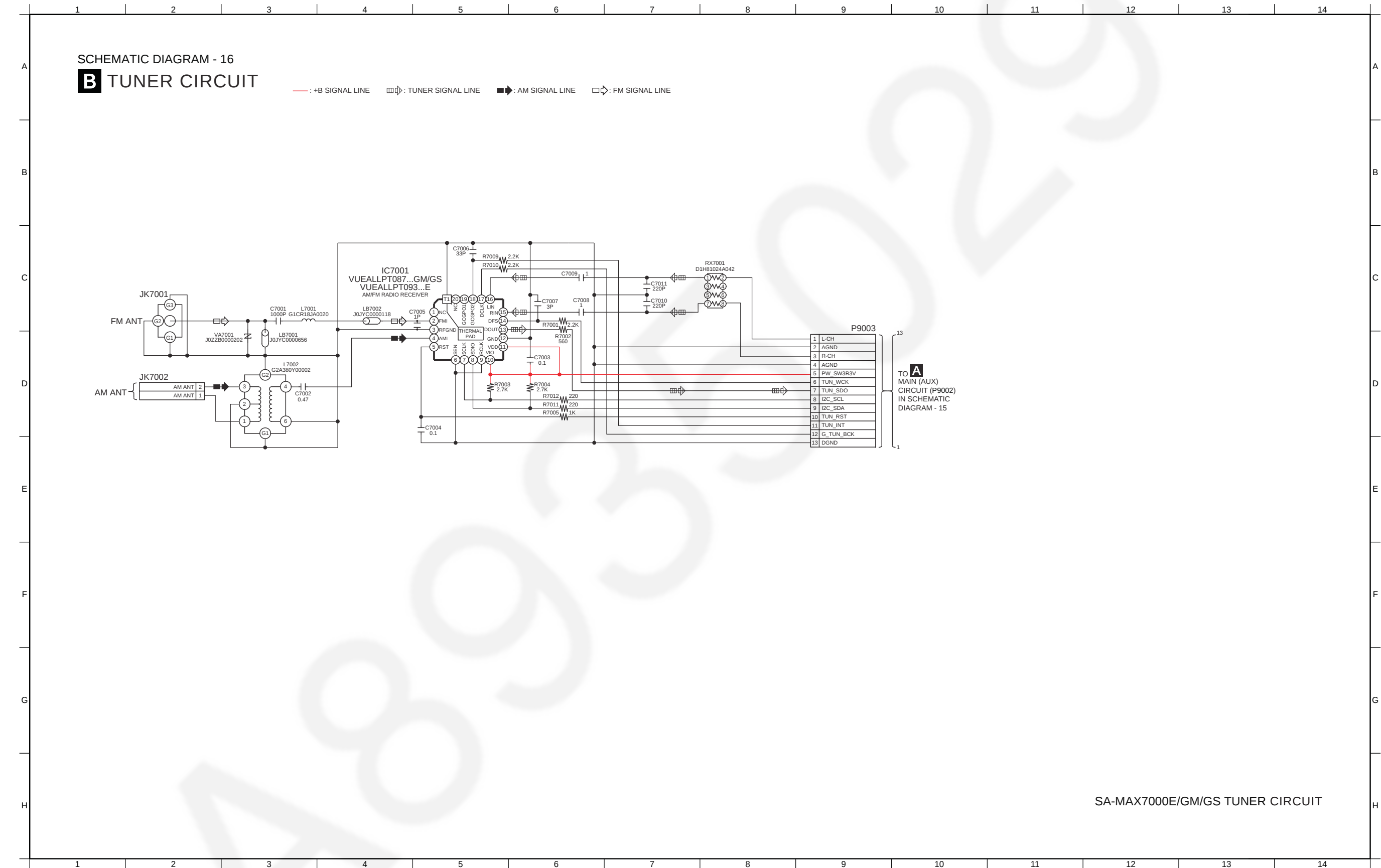
6.5. Main (USB) Circuit



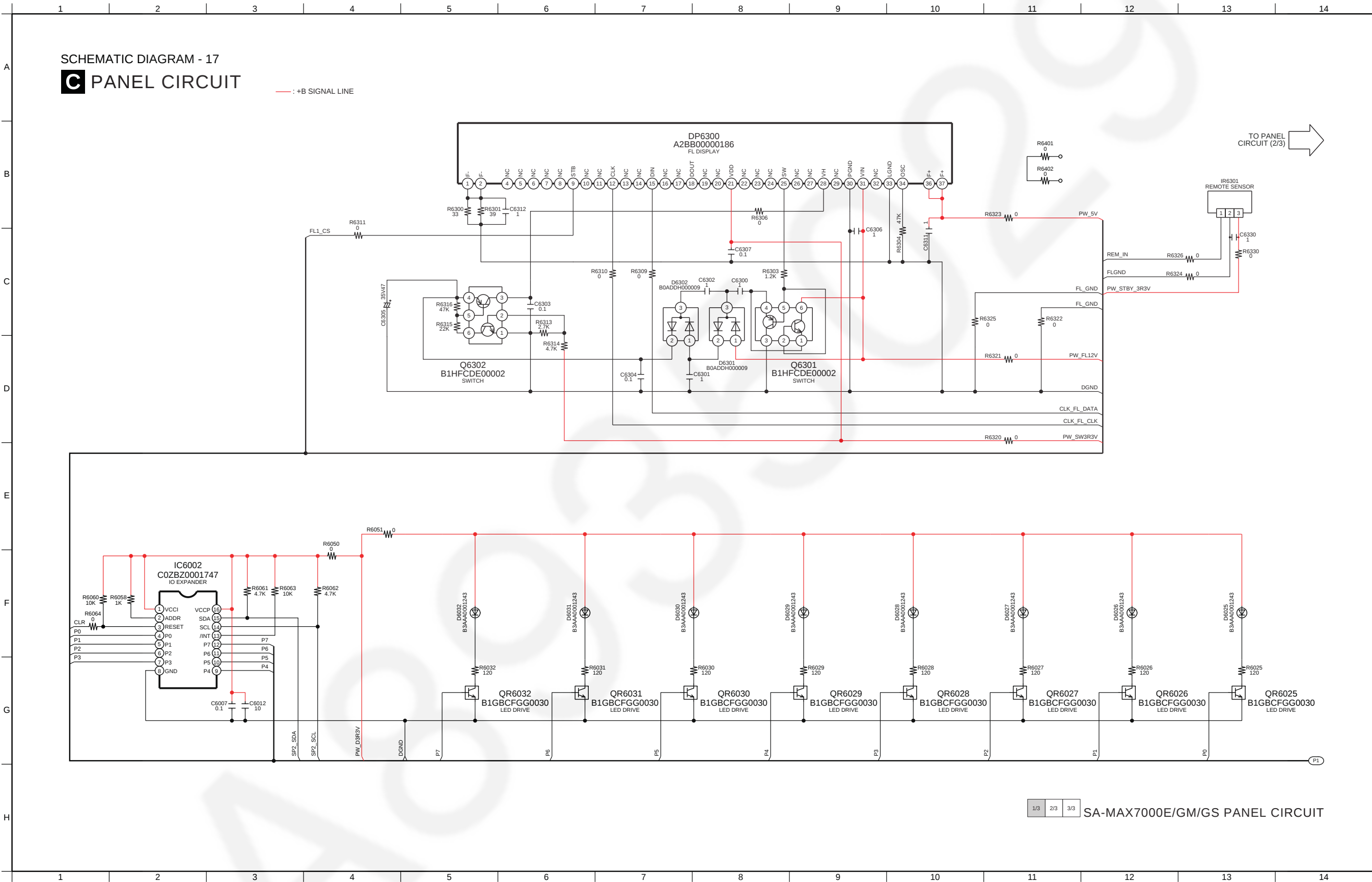
6.6. Main (AUX) Circuit



6.7. Tuner Circuit



6.8. Panel Circuit (1/3)



6.9. Panel Circuit (2/3)

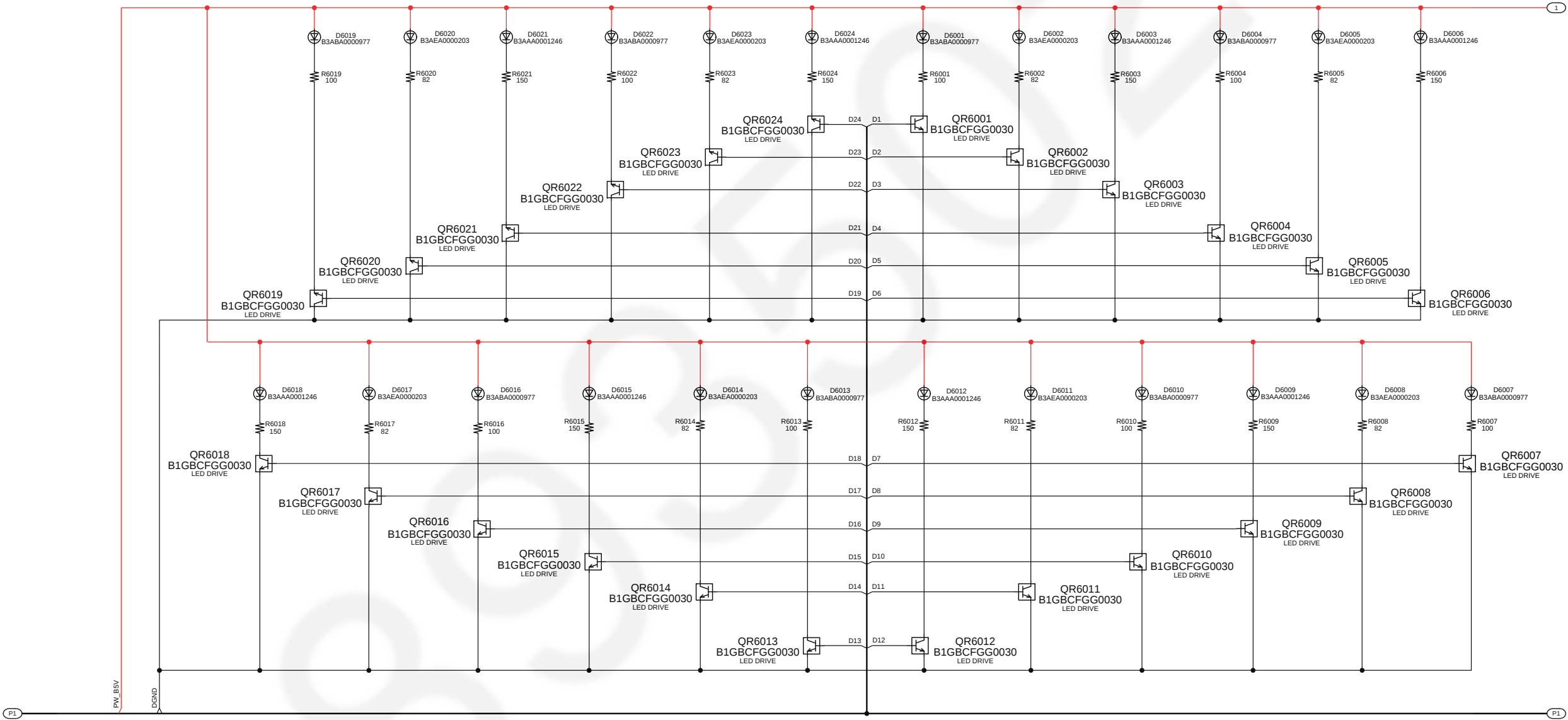
SCHEMATIC DIAGRAM - 18

C PANEL CIRCUIT

— : +B SIGNAL LINE

TO PANEL
CIRCUIT (1/3)

TO PANEL
CIRCUIT (3/3)



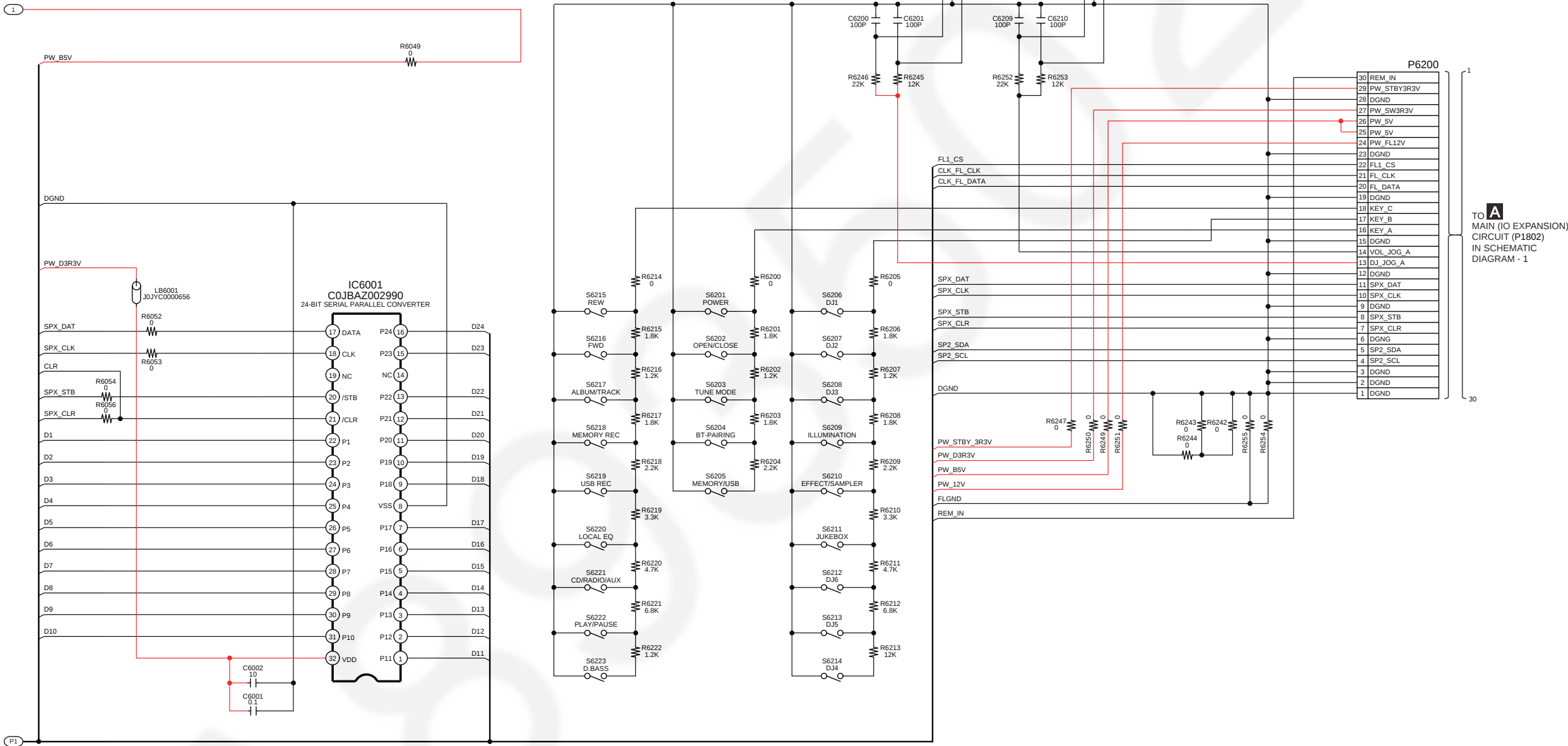
6.10. Panel Circuit (3/3)

SCHEMATIC DIAGRAM - 19

C PANEL CIRCUIT

— : +B SIGNAL LINE

← TO PANEL CIRCUIT (2/3)



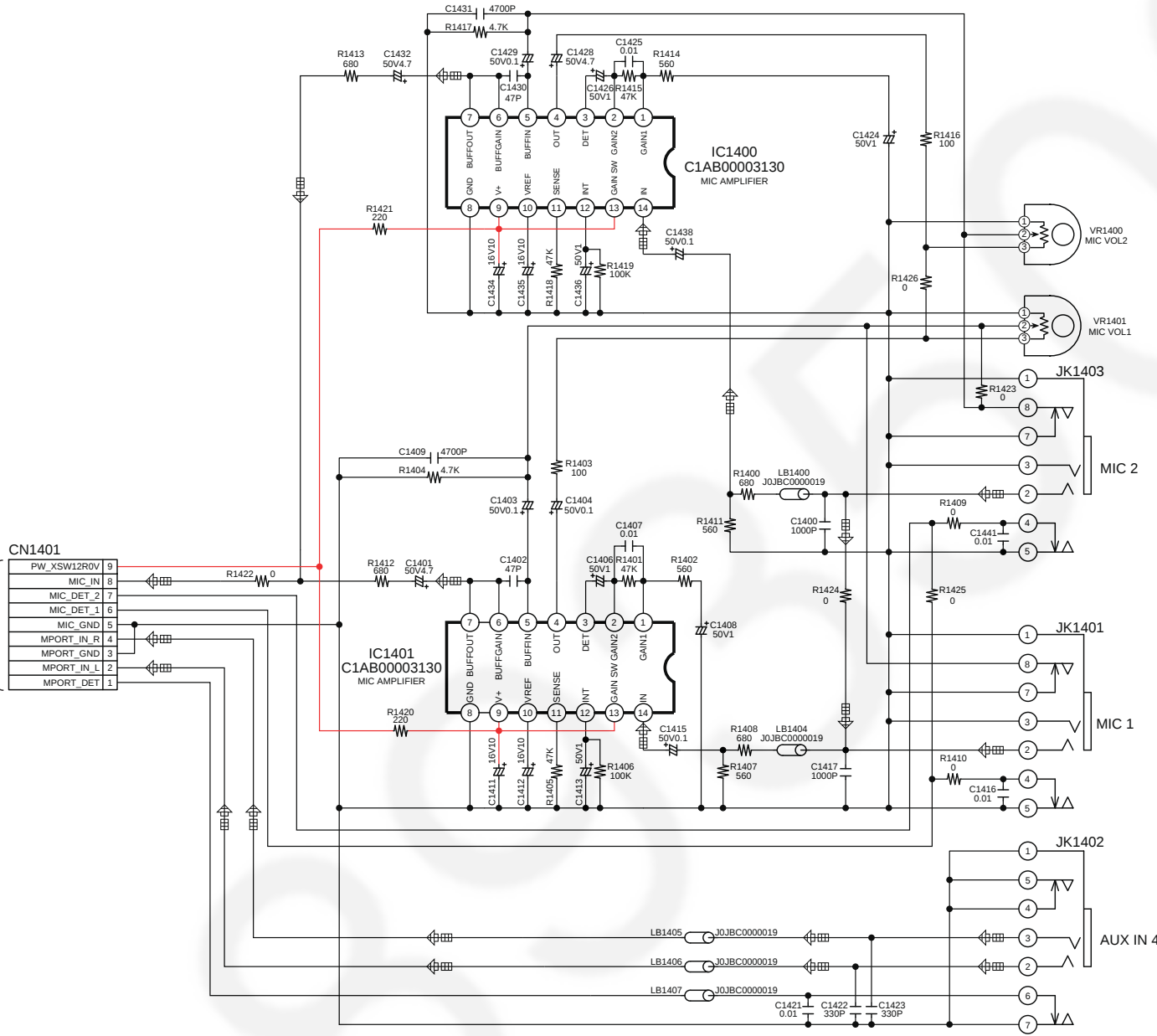
6.11. Mic Circuit

SCHEMATIC DIAGRAM - 20

D MIC CIRCUIT

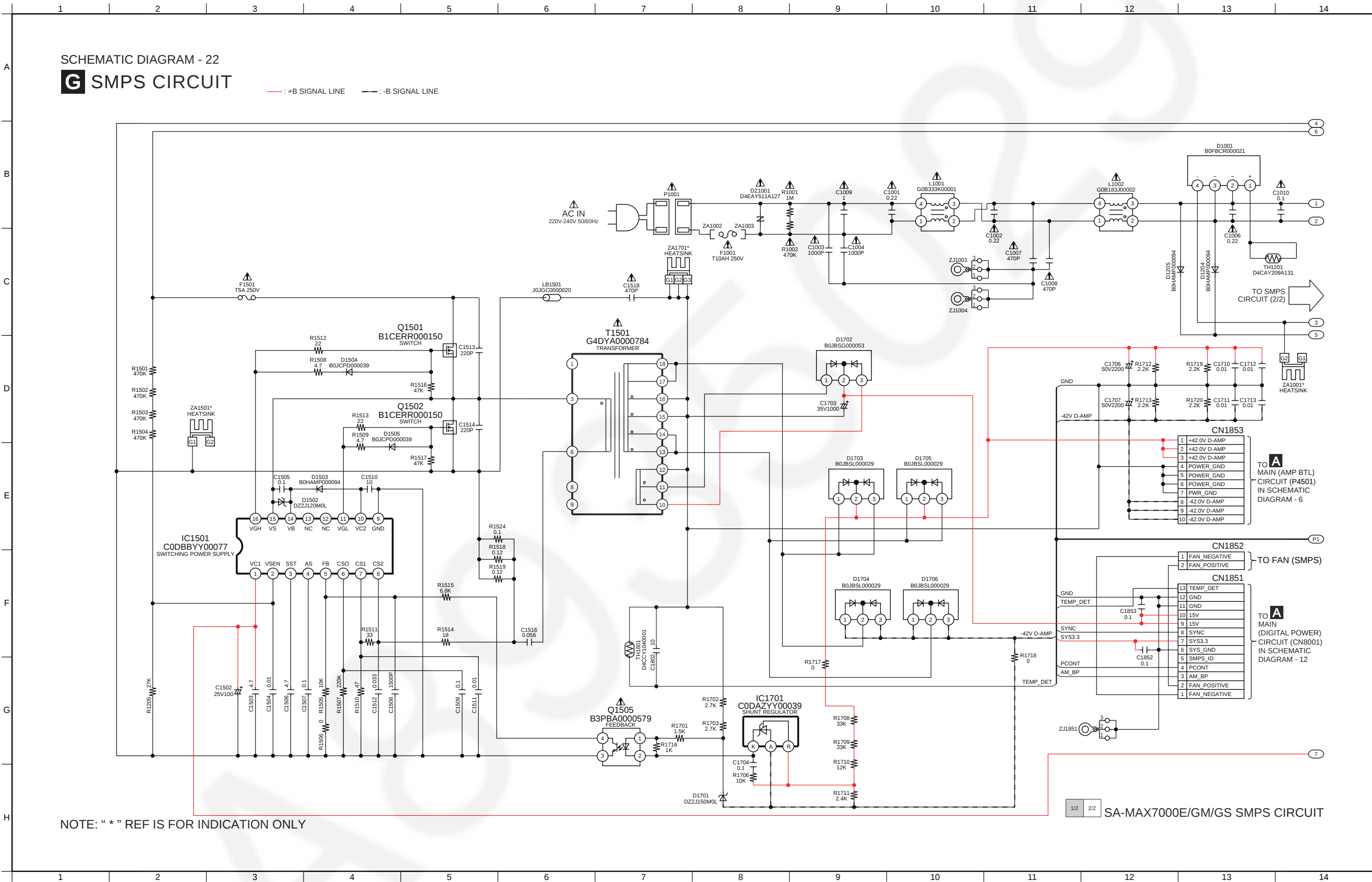
— : +B SIGNAL LINE  : AUX/MIC SIGNAL LINE

TO **A**
MAIN (IO EXPANSION)
CIRCUIT (P1803)
IN SCHEMATIC
DIAGRAM - 1



SA-MAX7000E/GM/GS MIC CIRCUIT

6.12. SMPS Circuit (1/2)

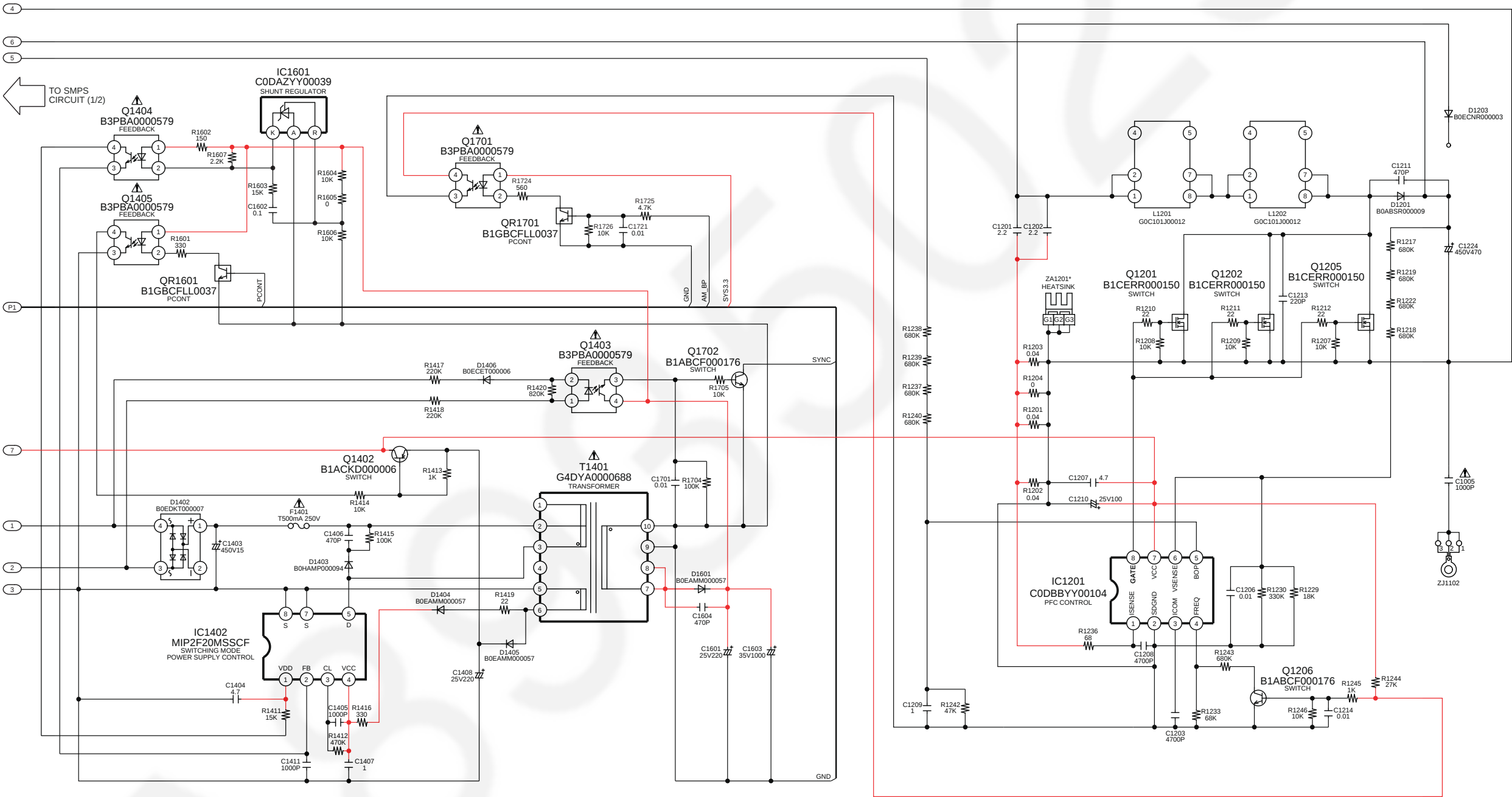


6.13. SMPS Circuit (2/2)

SCHEMATIC DIAGRAM - 23

SMPS CIRCUIT

— +B SIGNAL LINE — -B SIGNAL LINE



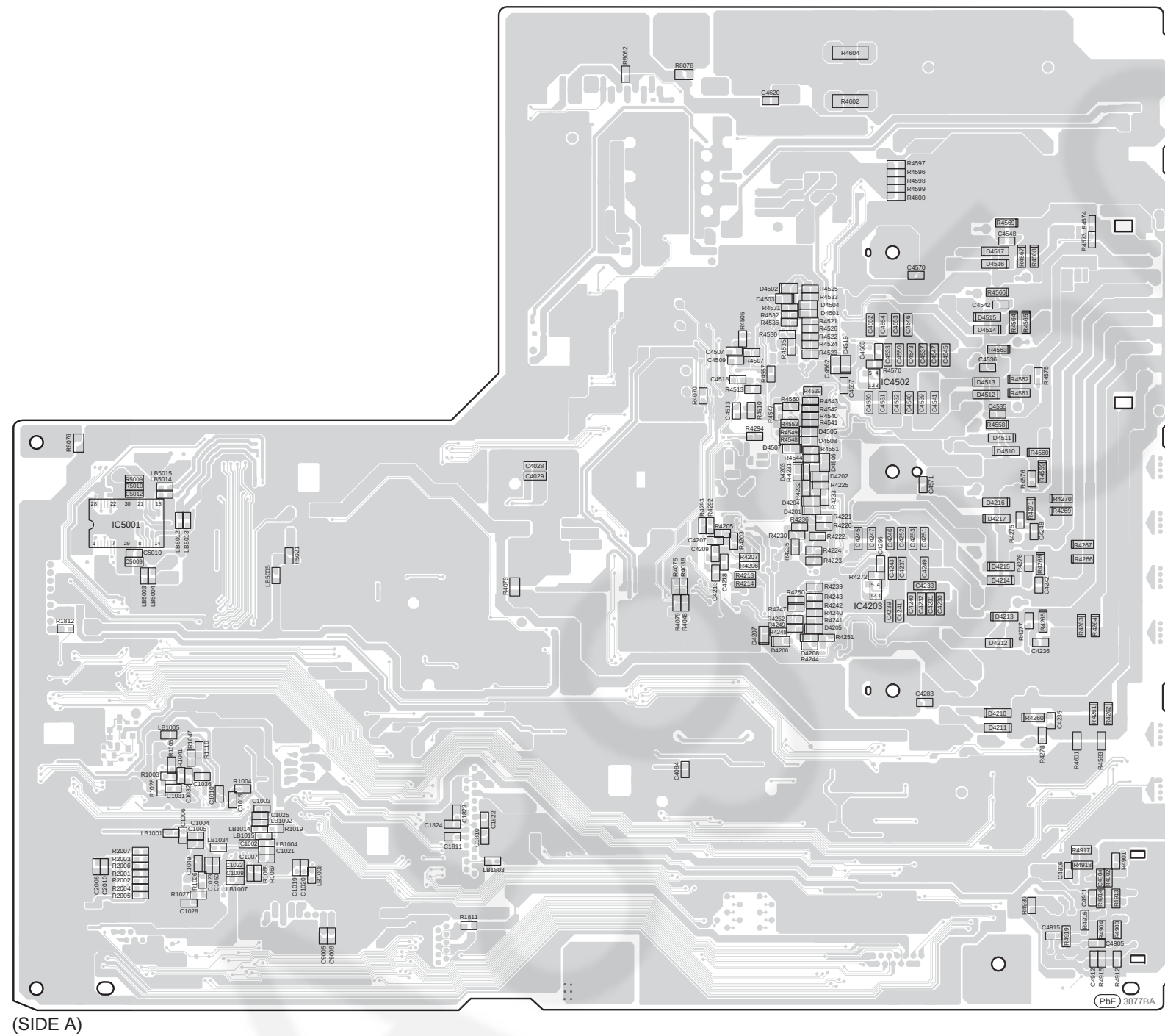
NOTE: " * " REF IS FOR INDICATION ONLY

1/2 2/2 SA-MAX7000E/GM/GS SMPS CIRCUIT

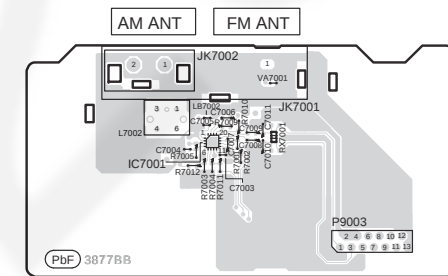
7 Printed Circuit Board

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

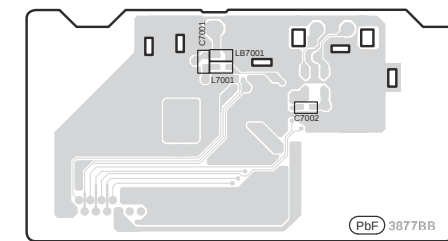
A MAIN P.C.B. (RFKV5348HA...E)
(RFKV5348GA...GM/GS)



B TUNER P.C.B. (REP5348HB...E)
(REP5348GB...GM/GS)



(SIDE A)



(SIDE B)

SA-MAX7000E/GM/GS
MAIN / TUNER P.C.B.

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

A



AUX IN 1
AUX IN 2
AUX IN 3

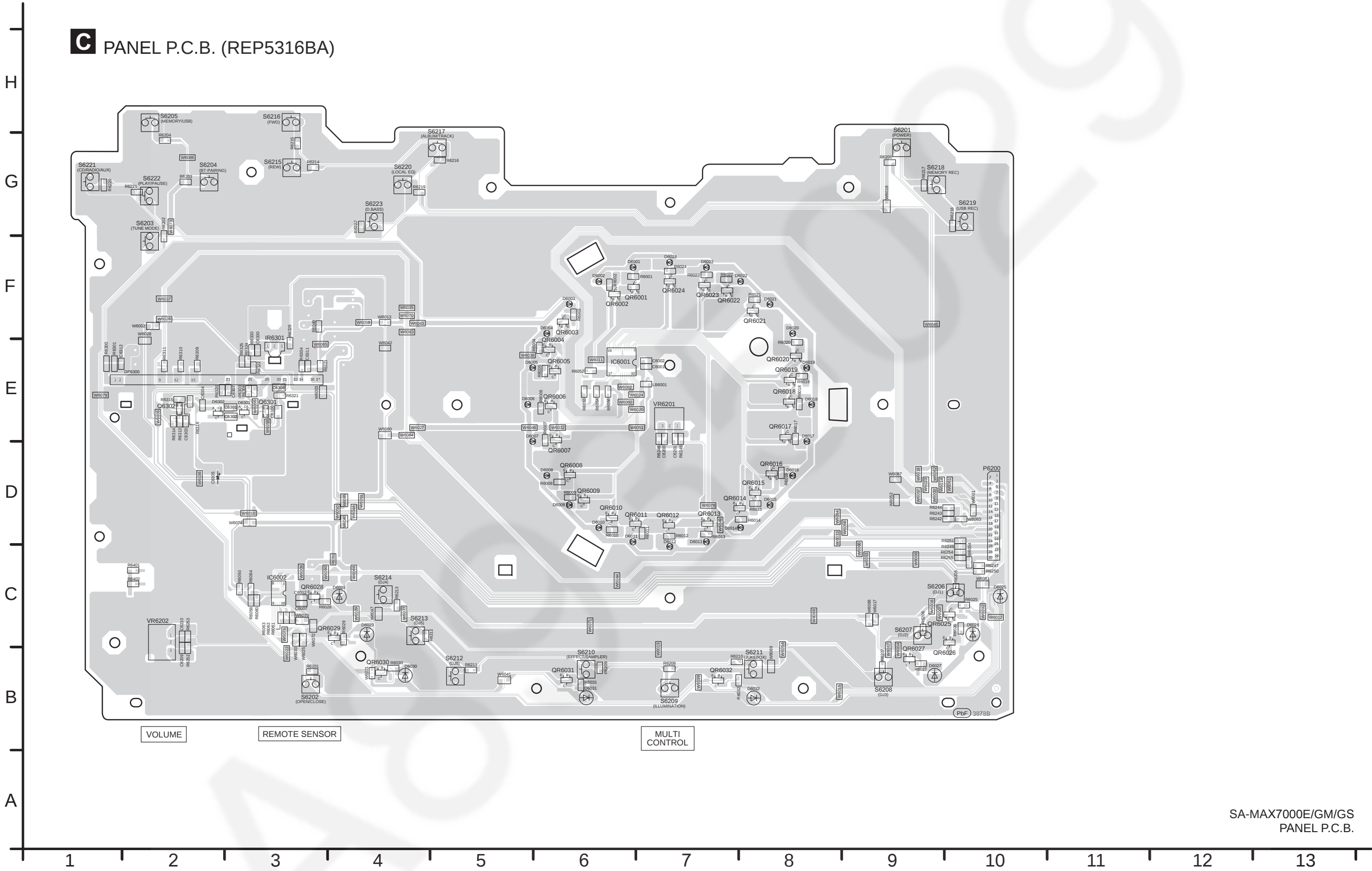
(SIDE B)

NOTE: " * " REF IS FOR INDICATION ONLY

SA-MAX7000E/GM/GS
MAIN P.C.B.

7.3. Panel P.C.B.

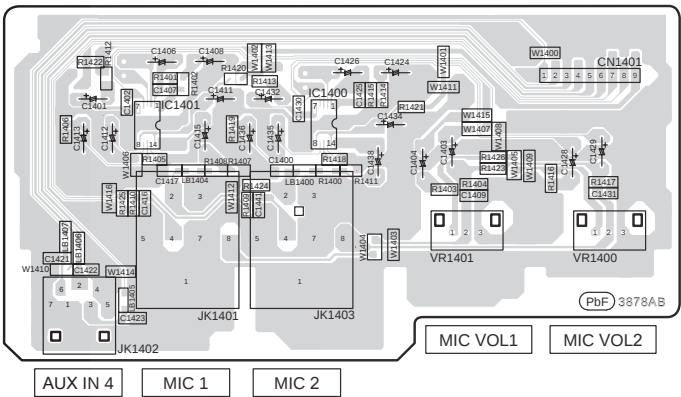
C PANEL P.C.B. (REP5316BA)



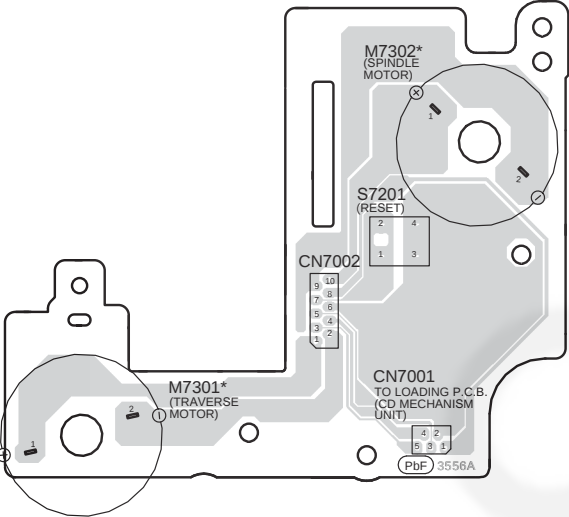
SA-MAX7000E/GM/GS
PANEL P.C.B.

7.4. Mic, USB and CD Interface P.C.B.

D MIC P.C.B. (REP5316BB)

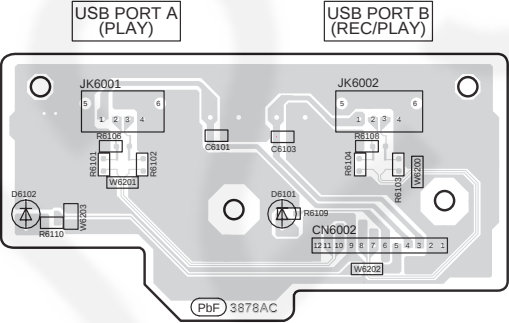


F CD INTERFACE P.C.B. (REP4945B)



NOTE: " * " REF IS FOR INDICATION ONLY

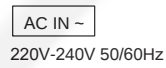
E USB P.C.B. (REP5316BC)



SA-MAX7000E/GM/GS
MIC / USB / CD INTERFACE P.C.B.

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

The logo of the German Society for Quality Management (DGQ) is a black square containing a white capital letter 'G'.

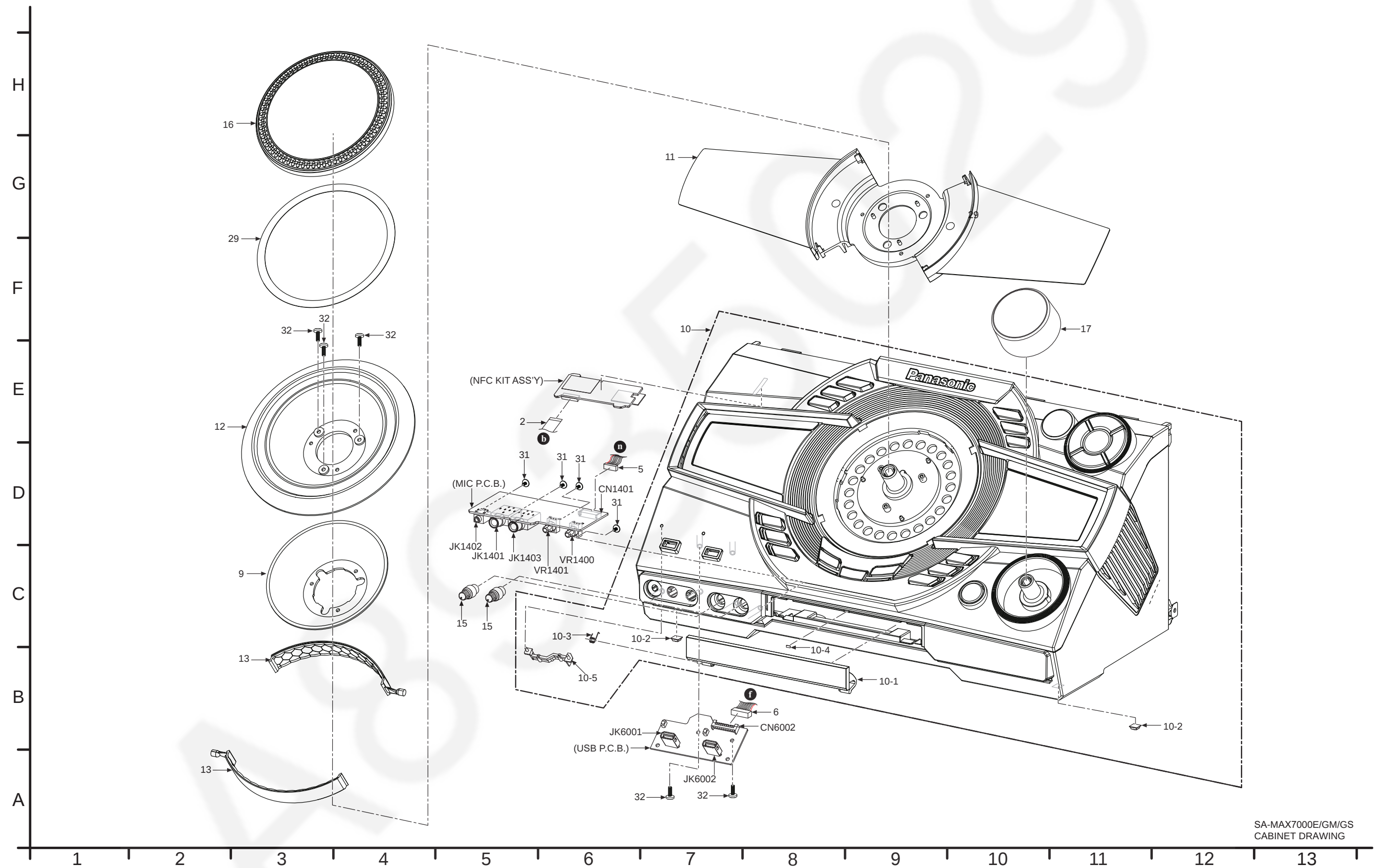


CAUTION
RISK OF ELECTRIC SHOCK
AC VOLTAGE LINE.
PLEASE DO NOT TOUCH THIS P.C.B

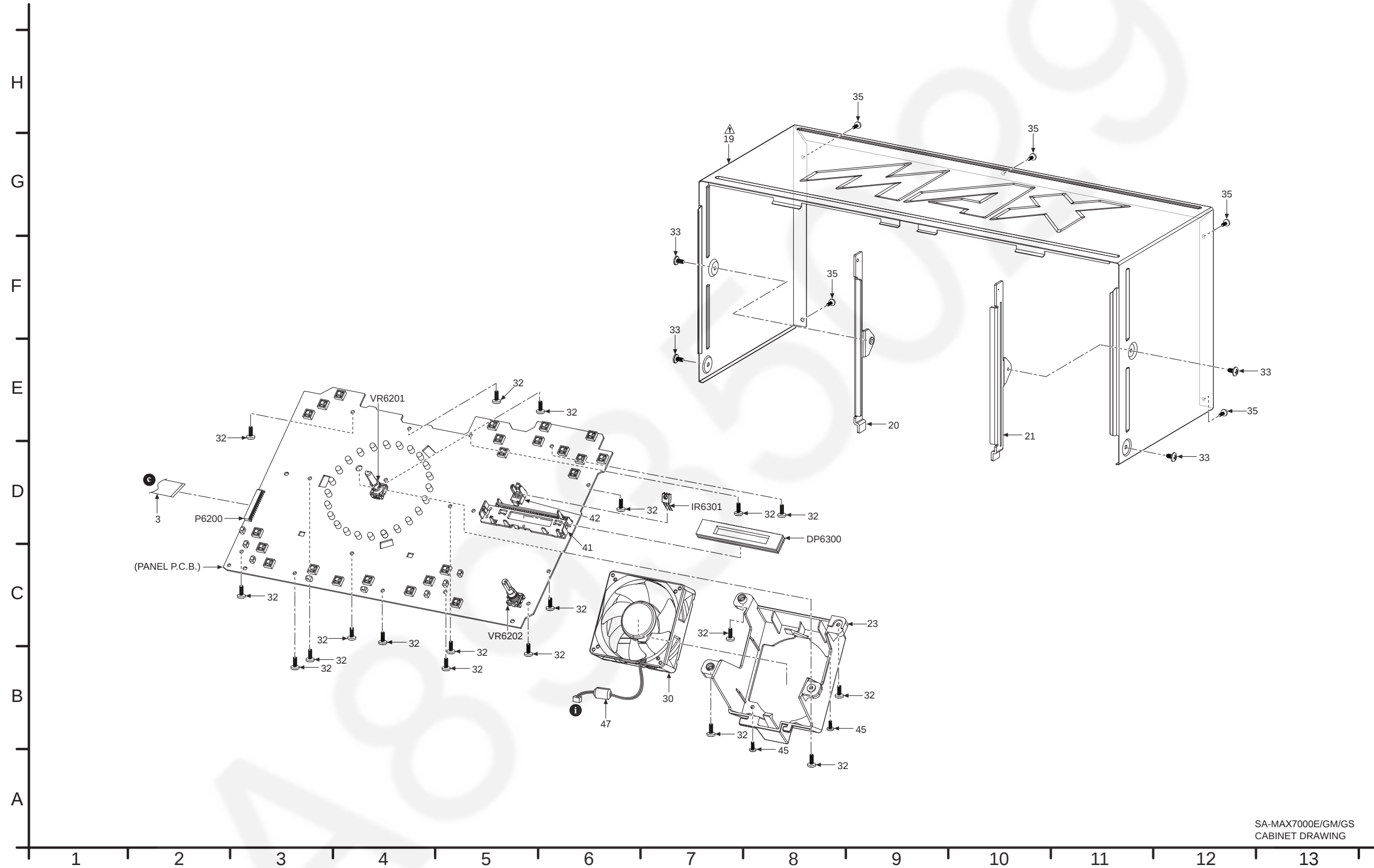
SA-MAX7000E/GM/GS
SMPS P.C.B.

8 Exploded View and Replacement Parts List

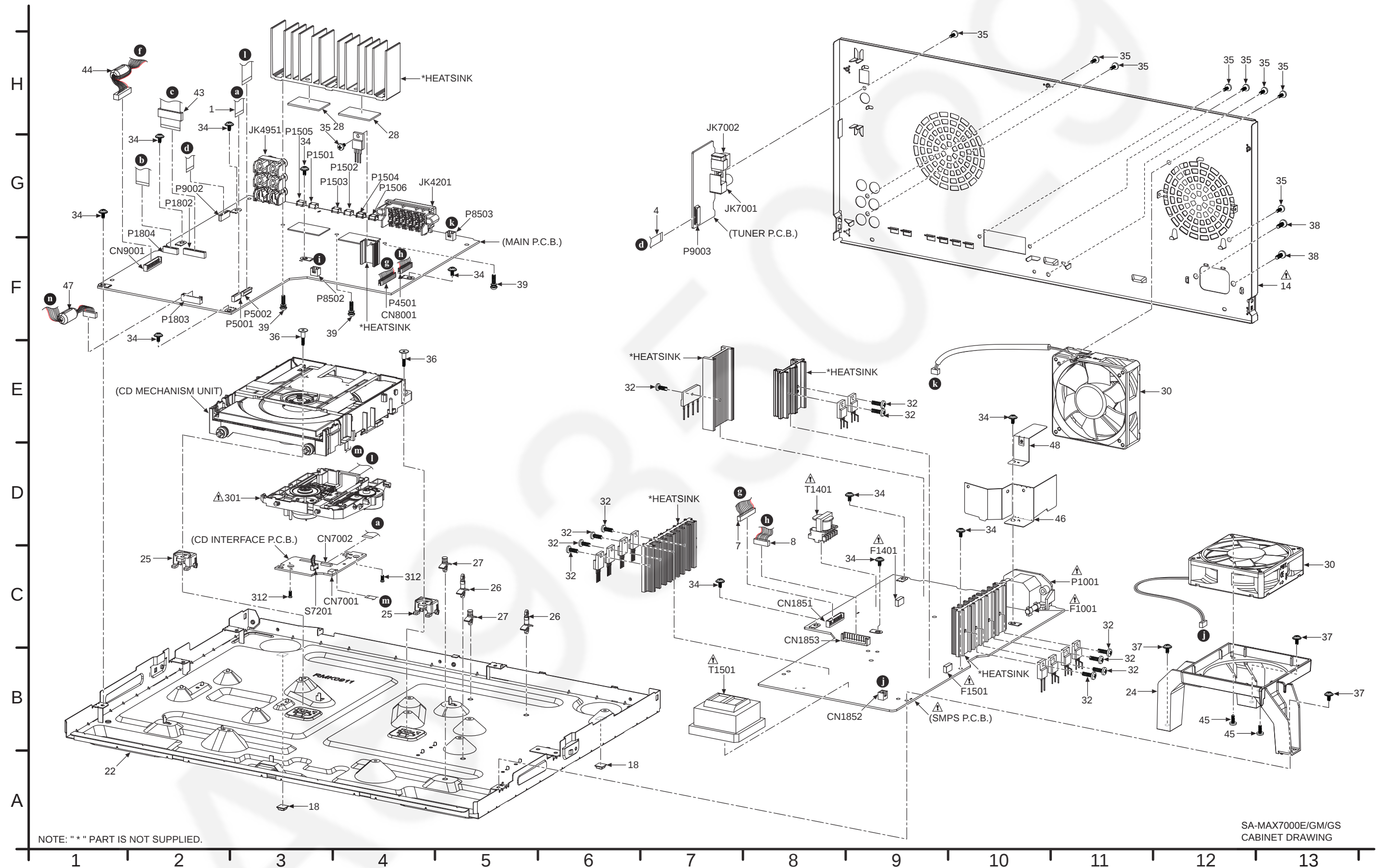
8.1. Cabinet Parts Location 1



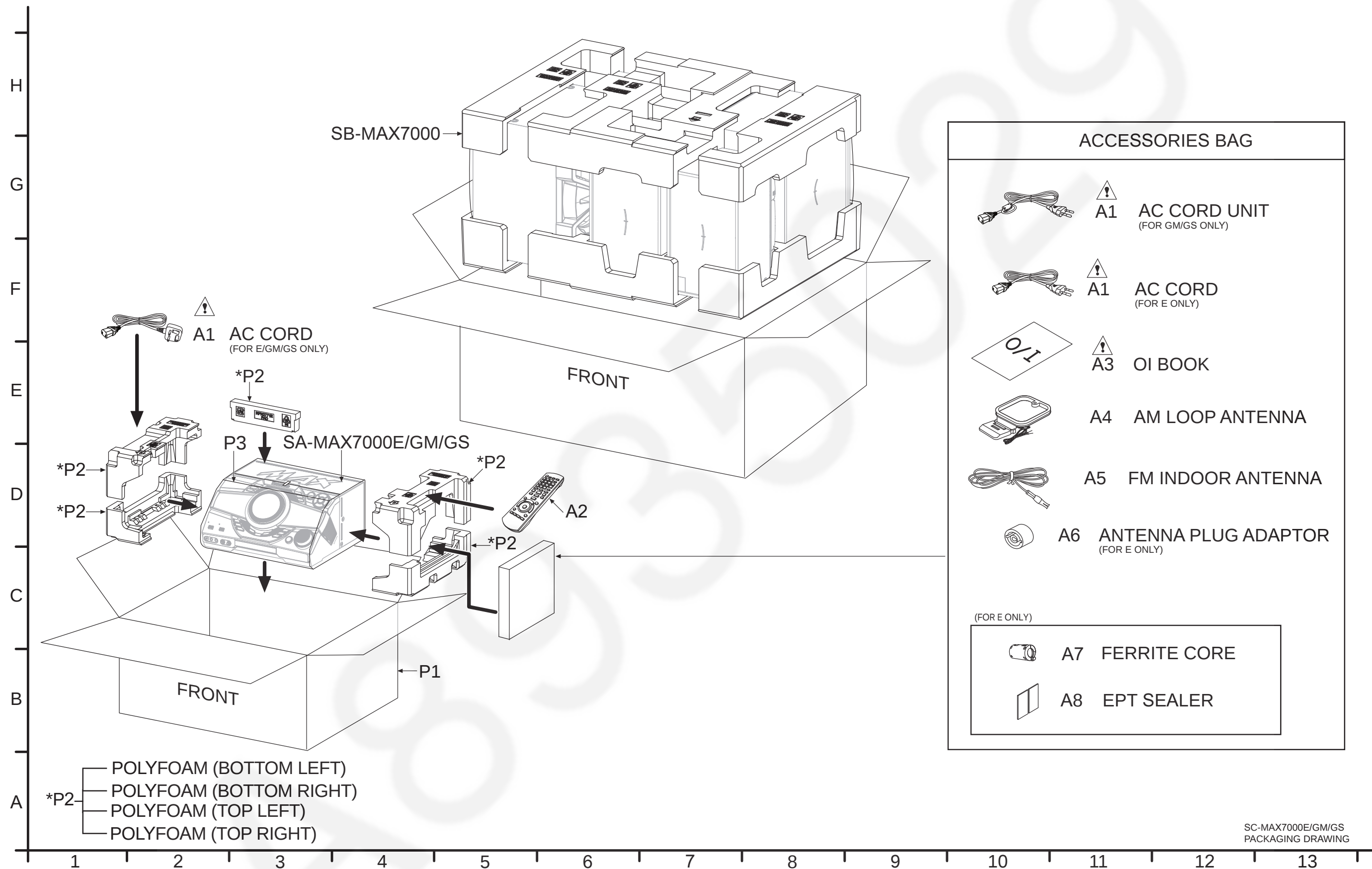
8.2. Cabinet Parts Location 2



8.3. Cabinet Parts Location 3



8.4. Packaging



8.5. Mechanical Replacement Part List

Important Safety Notice

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

RTL (Retention Time Limited)

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

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

Note:

- When replacing any of these components, be sure to use only manufacturer's specified parts shown in the replacement part list.
- The parenthesized indications on the Remarks column specify the destination & product color (Refer to the cover page for the information).
- Parts without these indications shall be used for all areas.
- This product uses a laser diode. Refer to "Precaution of Laser Diode".
- All parts mentioned are supplied by PMX 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	REE1730	10P FFC (MAIN-CD INTERFACE)	1	
	2	REE2141	12P FFC (NFC-MAIN)	1	
	3	REE2142	30P FFC (PANEL-MAIN)	1	
	4	REE2143	13P FFC (TUNER-MAIN)	1	
	5	REX1904	9P WIRE (MIC-MAIN)	1	
	6	REX1905	12P WIRE (USB-MAIN)	1	
	7	REX1906	13P WIRE (SMPS-MAIN)	1	
	8	REX1907	10P WIRE (SMPS-MAIN)	1	
	9	RGC0056-S	LIGHT REFLECTOR	1	
	10	RFGGX7000GSK	FRONT PANEL ASS'Y	1	E, GS, GM
	10-1	RGK2635-K	CD LID	1	
	10-2	RKAX0042-K	LEG CUSHION	2	
	10-3	RMB0982	CD LID SPRING	1	
	10-4	RMGX0033A-K	CD LID CUSHION	1	
	10-5	RGL0830-Q	USB LIGHT PIECE	1	
	11	RGL0826-Q	LIGHT WING	1	
	12	RGL0827-Q	LIGHT ORNAMENT	1	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	13	RGL0840-Q	PATTERN LIGHT PIECE	2	
$\triangle$	14	RGR0484D-A	REAR PANEL	1	GM, GS
$\triangle$	14	RGR0484D-B	REAR PANEL	1	E
	15	RGW0450-K	MIC VOLUME KNOB	2	
	16	RGW0448A-K	DJ TABLE	1	
	17	RGW0457-K	KNOB	1	
	18	RKAX0042-K	LEG CUSHION	2	
$\triangle$	19	RKM0771-K	TOP CABINET	1	
	20	RMA2506-1	SIDE ANGLE L	1	
	21	RMA2507-1	SIDE ANGLE R	1	
	22	RXX0902	BOTTOM CHASSIS UNIT	1	
	23	RMN1131	FAN HOLDER	1	
	24	RMN1142	FAN HOLDER	1	
	25	RMQX0382-3	CD MECHA SUPPORT	2	
	26	RMX0510	SMPS PCB SPACER	2	
	27	RMX0552	PCB SPACER	2	
	28	RMG0982-H	RADIATION RUBBER	2	
	29	RMQ2552-1	DJ SLIDER SHEET	1	
	30	L6FAYYYH0354	FAN UNIT	3	
	31	RHD26016-1L	SCREW	4	
	32	RHD26046-L	SCREW	35	
	33	RHD30007-K2J	SCREW	4	
	34	RHD30111-31	SCREW	11	
	35	RHD30119-S	SCREW	13	PR
	35	RHD30119-S	SCREW	14	
	36	RHDX031008	SCREW	2	
	37	RHDX30005-J	SCREW	3	
	38	XTB4+10AFJ	SCREW	2	
	39	RHD26078	SCREW	3	

Safety	Ref. No.	Part No.	Part Name & Description	Qty	Remarks
	41	RMN1049-1	FL HOLDER	1	
	42	RMN1085-1	IR HOLDER	1	
	43	JOKD00000172	FERRITE CORE	1	
	44	JOKG00000199	FERRITE CORE	1	
	45	XTB3+12JFJK	SCREW	4	
	46	RXA0277	SMPS SHIELD UNIT	1	
	47	JOKG00000011	FERRITE CORE	2	
	48	RSC1341	SHIELD PLATE B	1	
			TRAVERSE DECK		
⚠	301	RAE1052Z-V	TRAVERSE ASS'Y	1	(E.S.D)
	312	XTN2+6GFJ	SCREW	2	
			PACKING MATERI-ALS		
	P1	RPG0S71	PACKING CASE	1	GS
	P1	RFKZAX7000GM	PACKING CASE	1	GM
	P1	RPG0S73	PACKING CASE	1	E
	P2	RPN2771-1	POLYFOAM	1	E
	P3	RPH0333	MIRAMAT SHEET	1	E
			ACCESSORIES		
⚠	A1	RFA3678	AC CORD	1	GS,GM
	A1	K2CQ2YY00127	AC CORD	1	E
⚠	A1	K2CT2YY00103	AC CORD	1	E,GS,GM
	A2	N2QAYB001022	REMOTE CONTROL	1	
⚠	A3	RQT0A64-1M	O/I BOOK (Sp)	1	PR
⚠	A3	RQT0A66-G	O/I BOOK (En/Cn/Ar)	1	GS,GM
⚠	A3	RQT0A67-D	O/I BOOK (Ge/Fr/It/Du)	1	E
⚠	A3	RQT0A73-R	O/I BOOK (En/Po/Cz)	1	E
	A4	N1DY00000011	AM LOOP ANTENNA	1	
	A5	RSAX0002	FM INDOOR ANTENNA	1	
	A6	K1YZ02000013	ANTENNA PLUG ADAPTOR	1	E
	A7	JOKG00000013	FERRITE CORE	1	E
	A8	RMF0680	EPT SEALER	2	E

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 Panasonic Mexico.
- 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-MAX7000PU	SA-MAX7000E/GS			
	PCB1	RFKV5315EA	RFKV5348GA	MAIN/NFC KIT ASS'Y	1	GS
	PCB1	-	RFKV5348HA	MAIN/NFC KIT ASS'Y	1	E
	PCB2	REP5315EB	REP5348GB	TUNER P.C.B	1	(RTL) GS
	PCB2	-	REP5348HB	TUNER P.C.B	1	(RTL) E
	PCB3	RFKV5135EC	RFKV5348GC	NFC KIT ASS'Y	1	GS
	PCB3	-	RFKV5348HC	NFC KIT ASS'Y	1	E
	PCB4	REP5316AA	REP5316BA	PANEL P.C.B	1	(RTL)
	PCB5	REP5316AB	REP5316BB	MIC P.C.B	1	(RTL)
	PCB6	REP5316AC	REP5316BC	USB P.C.B	1	(RTL)
	PCB7	REP5317A	REP5317D	SMPS P.C.B	1	(RTL)
Δ	C1001	F0CAF2240010	-	0.22uF	1	SMPS
Δ	C1002	F0CAF2240010	-	0.22uF	1	SMPS
	C1005	-	F1BAF1020030	1000pF	1	SMPS
Δ	C1006	F0CAF2240010	-	0.22uF	1	SMPS
Δ	C1007	F1BAF1020030	F1BAF4710005	470pF	1	SMPS
Δ	C1008	F1BAF1020030	F1BAF4710005	470pF	1	SMPS
Δ	C1009	-	F0CAF105A105	1uF	1	SMPS
Δ	C1010	-	F0CAF104A105	0.1uF	1	SMPS
	C1213	F1B3D681A132	F1B3D221A132	220pF 2000V	1	
	C1400	-	F1H1H102B047	1000pF 50V	1	
	C1406	F1K2J2220002	F1K2J471A014	470pF 630V	1	SMPS
	C1416	-	F1H1H103B047	0.01uF 50V	1	
	C1424	-	F2A1H1R0A213	1.0uF 50V	1	
	C1425	-	F1H1H103B047	0.01uF 50V	1	
	C1426	-	F2A1H1R0A213	1.0uF 50V	1	GS
	C1428	-	F2A1H4R7A218	4.7uF 50V	1	GS
	C1429	-	F2A1HR10A015	0.10uF 50V	1	GS
	C1430	-	F1H1H470B052	47pF 50V	1	GS
	C1431	-	F1H1H472B047	4700pF 50V	1	GS
	C1432	-	F2A1H4R7A213	4.7uF 50V	1	
	C1434	-	F2A1C100A207	10uF 16V	1	
	C1435	-	F2A1C1000096	10uF 16V	1	

Safety	Ref. No.	Parts No.		Parts name & Description	Qty	Remarks
		SA-MAX7000PU	SA-MAX7000E/GS			
	C1436	-	F2A1H1R0A213	1.0uF 50V	1	
	C1438	-	F2A1HR10A015	0.10uF 50V	1	
	C1518	F1BAF471A215	-	470pF	1	
	C4271	-	F1H1H105B027	1uF 50V	1	
	C4291	F0A1H474A095	F0A1H225A095	2.2uF 50V	1	
	C4292	F0A1H474A095	F0A1H225A095	2.2uF 50V	1	
	C4293	F0A1H474A095	F0A1H225A095	2.2uF 50V	1	
	C4294	F0A1H474A095	F0A1H225A095	2.2uF 50V	1	
	C4585	F0A1H105A095	F0A1H225A095	2.2uF 50V	1	
	C4586	F0A1H105A095	F0A1H225A095	2.2uF 50V	1	
	C4587	F0A1H105A095	F0A1H225A095	2.2uF 50V	1	
	C4588	F0A1H105A095	F0A1H225A095	2.2uF 50V	1	
	C4619	-	F1H1H104B047	0.1uF 50V	1	
	C4620	-	F1H1H104B047	0.1uF 50V	1	
	C4911	-	F1H1H105B027	1uF 50V	1	
	C4912	-	F1H1H105B027	1uF 50V	1	
	C4915	-	F1H1A1050039	1uF 50V	1	
	C4916	-	F1H1A1050039	1uF 50V	1	
	D6401	B0EAMM000057	-	DIODE	1	
	D6402	-	B0EAMM000057	DIODE	1	
	IC1400	-	C1AB00003130	IC	1	
	IC4201	-	C0JBAB000902	IC	1	
	IC7001	C1AB00004151	C1AB00004151	IC	1	GM/GS
	IC7001	-	C1AB00004152	IC	1	E
	JK1401	-	K2HB107B0001	JK PIN	1	
	JK4951	-	K2HA208B0006	JK RCA PIN	1	
	JK4952	K2HA2Y00006	-	JK AUX IN1	1	
	L1001	G0B100Y00001	G0B333K00001	LINE FILTER	1	
	L1002	-	G0B183J00002	LINE FILTER	1	
	LB1400	-	J0JBC0000019	INDUCTOR	1	
	LB4271	-	J0JYC0000656	INDUCTOR	1	
	LB9001	J0JGC0000070	D0GBR00J0004	INDUCTOR	1	
	LB9002	J0JGC0000070	D0GBR00J0004	INDUCTOR	1	
	R1002	D0GF105JA048	D0GF474JA048	470K 1/4W	1	
	R1031	D0GB103JA065	D0GB103JA065	10K 1/10W	1	GM/GS
	R1033	D0GB393JA065	D0GB562JA065	5.6K 1/10W	1	GM/GS
	R1033	-	D0GB103JA065	10K 1/10W	1	E
	R1153	D0GBR00J0004	-	0 1/10W	1	
	R1154	-	D0GBR00J0004	0 1/10W	1	GM/GS
	R1157	-	D0GBR00J0004	0 1/10W	1	E
	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	-	D0GB561JA065	560 1/10W	1	
	R1415	-	D0GB473JA065	47K 1/10W	1	
	R1416	-	D0GB101JA065	100 1/10W	1	
	R1417	-	D0GB472JA065	4.7K 1/10W	1	
	R1418	-	D0GB473JA065	47K 1/10W	1	
	R1419	-	D0GB104JA065	100K 1/10W	1	
	R1421	-	D0GB221JA065	220 1/10W	1	
	R1423	D0GBR00J0004	-	0 1/10W	1	
	R1424	D0GBR00J0004	-	0 1/10W	1	
	R1425	D0GBR00J0004	-	0 1/10W	1	
	R1426	D0GBR00J0004	-	0 1/10W	1	
	R1605	D1BB1001A074	D0GBR00J0004	0 1/10W	1	
	R4286	-	D0GB102JA065	1K 1/10W	1	
	R4288	-	D0GB102JA065	1K 1/10W	1	
	R4289	D0GBR00J0004	-	0 1/10W	1	
	R4290	-	D0GDR00J0004	0 1/10W	1	
	R4292	D0GBR00J0004	-	0 1/10W	1	
	R4295	-	D0GBR00J0004	0 1/10W	1	
	R4296	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	
	R6401	D0GBR00J0004	-	0 1/10W	1	
	R6402	-	D0GBR00J0004	0 1/10W	1	

Safety	Ref. No.	Parts No.		Parts name & Description	Qty	Remarks
		SA-MAX7000PU	SA-MAX7000E/GS			
	VR1401	-	EVUE27FK2B53	MIC VR	1	

MMH1605