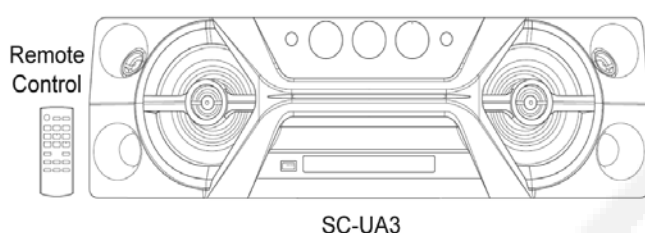


Service Manual

Compact Stereo System

Model No. **SC-UA3GS**
SC-UA3GSX
SC-UA3PP

Product Color: (K)...Black Type



Notes: Please use this manual together with service manual Model No.[SC-UA3E-K, Order no. PSG1705009CE].

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.

TABLE OF CONTENTS

	PAGE		PAGE
1 Notes	2	6 Packaging	10
2 Safety Precautions	3	7 Replacement Parts List	11
2.1. Safety Part Information	3	7.1. Parts List Difference points	11
3 Specifications	4		
4 Schematic Diagram	5		
4.1. Main (Micon) Circuit (1/2)	5		
4.2. Main (Micon) Circuit (2/2)	6		
4.3. Main (Tuner AUX) Circuit	7		
5 Printed Circuit Board	8		
5.1. Main P.C.B. (Side B) (SC-UA3GS/GSX)	8		
5.2. Main P.C.B. (Side B) (SC-UA3PP-K)	9		

Panasonic®

© Panasonic Corporation 2017. All rights reserved.
 Unauthorized copying and distribution is a violation of law.

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.

This simplified service manual is based on SC-UA3E-K Please refer to the original service manual, SC-UA3E-K (Order No. PSG1705009CE). This service manual include the following information only

- Safety Precautions
- Specifications
- Main SCH (MICON and TUNER AUX)
- Main PCB
- Packing
- Replacement Parts List (Differences List)

2 Safety Precautions

2.1. Safety Part 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
△	17	TBMK4905	NAMEPLATE	UA3GS-K, UA3GSX-K
△	17	TBMK4908	NAMEPLATE	UA3PP-K
△	301	TXQ0011	TRAVERSE ASS'Y	(E.S.D)
△	A2	K2CP2YY00061	AC CORD	UA3GS-K, UA3GSX-K
△	A2	K2CQ2YY00107	AC CORD	UA3GS-K, UA3GSX-K
△	A2	K2CT2YY00089	AC CORD	UA3GS-K, UA3GSX-K
△	A2	K2CB2YY00065	AC CORD	UA3PP-K
△	A3	TQBJ2013	OI (En)	UA3GS-K, UA3GSX-K
△	A3	TQBJ2014	OI (Ru/Ur/Cn/Ar)	UA3GS-K, UA3GSX-K
△	A3	TQBJ2018	OI (En/Sp/Cf)	UA3PP-K
△	PCB7	N0AE1GN00001	SMPS MODULE	UA3GS-K, UA3GSX-K
△	PCB7	N0AE1GN00004	SMPS MODULE	UA3PP-K

3 Specifications

■ Amplifier section

RMS output power stereo mode

Front Ch (both ch driven) 150 W per channel (4 Ω),
1 kHz, 30% THD

Total RMS stereo mode power 300 W

PMPO output power (For GS/GSX)

3300 W

FTC output power stereo mode (for PP)

Front Ch (both ch driven) 75 W per channel (4 Ω),
50 Hz to 20kHz, 1% THD

Total FTC stereo mode power 150w

■ Tuner section

Frequency modulation (FM)

Preset memory

Frequency range (GS/GSX) FM 30 stations
87.50 MHz to 108.00 MHz
(50 kHz step)

Frequency range (For PP) 87.9 MHz to 107.90 MHz
(200 kHz step)

87.5 MHz to 108.00 MHz
(100 kHz step)

Antenna terminals 75 Ω (unbalanced)

■ Disc section

Discs played (8 cm or 12 cm)

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

* MPEG-1 Layer 3

Pick up

Wavelength 790 nm (CD)

■ Terminal section

USB Port

USB standard USB 2.0 full speed

Media file format support MP3 (*.mp3)

USB device file system FAT12, FAT16, FAT32

Digital audio input

Optical digital input Optical terminal

Sampling frequency 32 kHz, 44.1 kHz, 48 kHz, 96 kHz

Analog audio input

Audio input Pin jack (1 system)

Microphone

Terminal Mono, 6.3 mm jack (2 systems)

■ Bluetooth® section

Version

Bluetooth® Ver.2.1 + EDR

Class

Class 2

Supported profiles

A2DP, AVRCP, SPP

Operating frequency

2.4 GHz band, FH-SS

Operating distance

10 m line of sight

■ General

Power supply

AC 220 to 240 V, 50 Hz (for
GS/GSX)

AC 120 V, 60 Hz (for PP)

Power consumption

51 W

Dimensions (W x H x D)

650 mm x 196 mm x 274 mm

25 5/6" x 7 6/8" x 10 7/8"

(For PP)

Mass

6.1 kg

Operating temperature range

0 °C to +40 °C

Operating humidity range

35% to 80% RH
(no condensation)

Power Consumption in standby mode (approximate)

0.5 W

Power Consumption in standby mode (approximate)

0.6 W

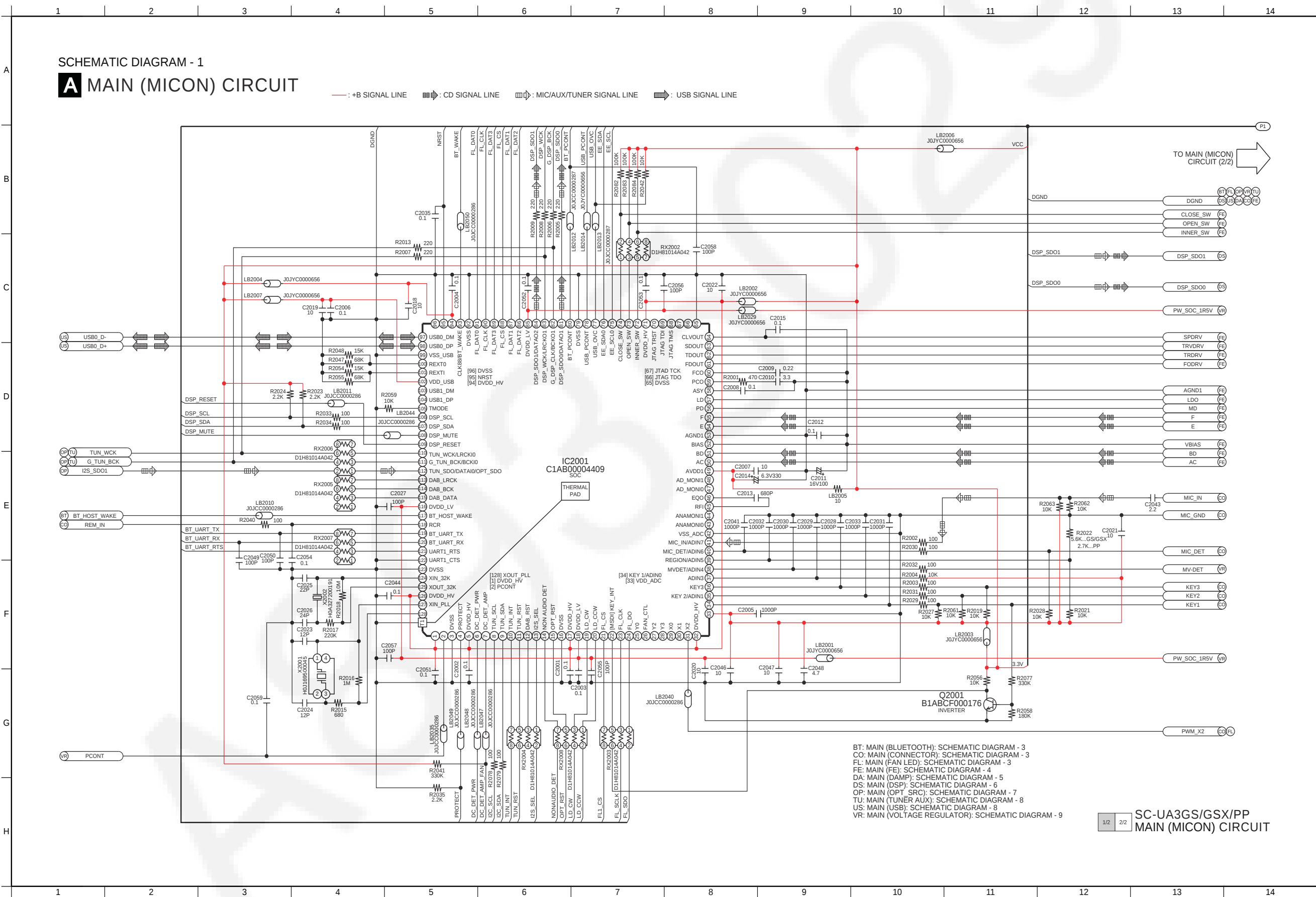
(With "BLUETOOTH STANDBY" set to "ON")

Note:

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

4 Schematic Diagram

4.1. Main (Micon) Circuit (1/2)

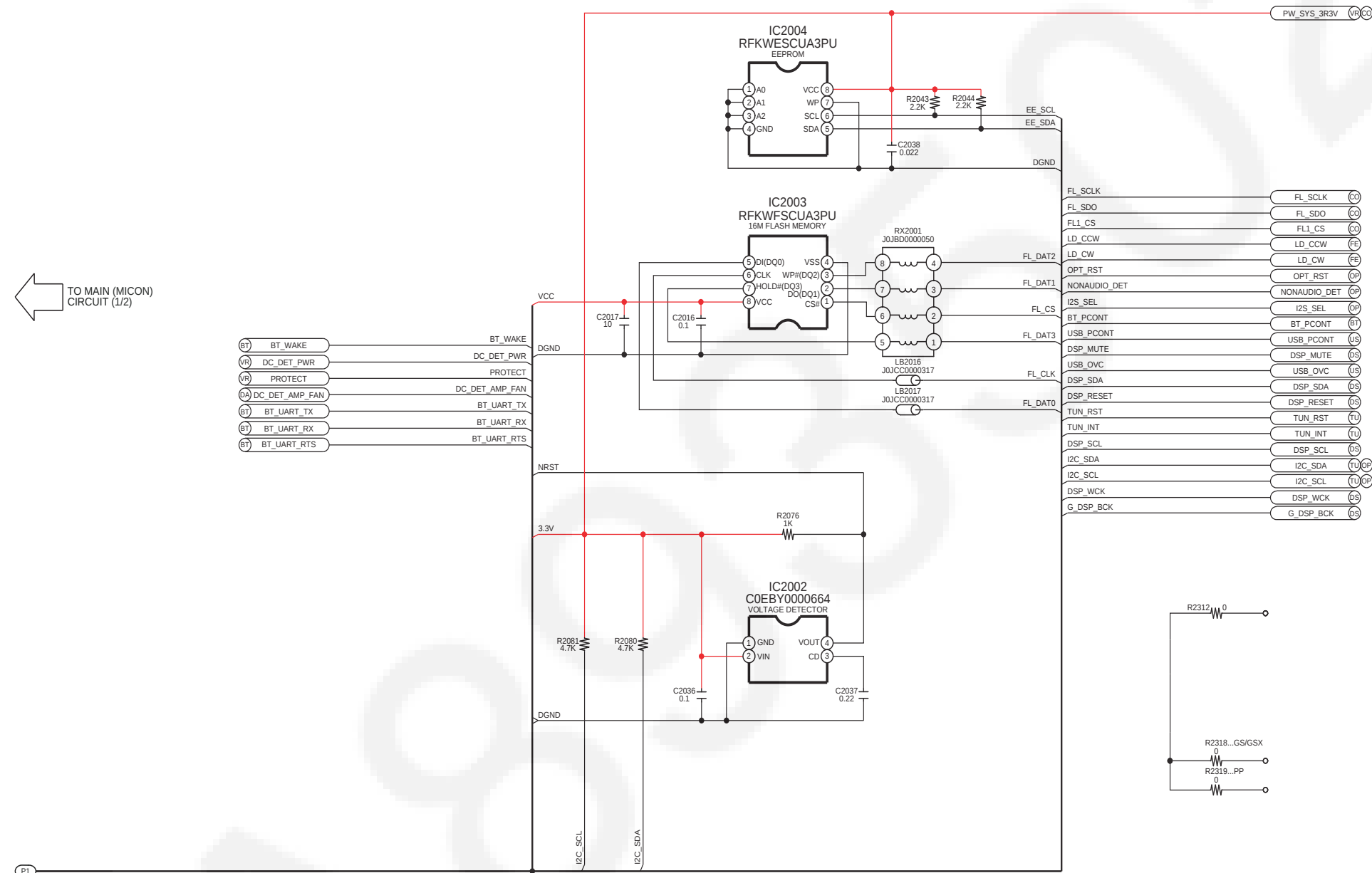


4.2. Main (Micon) Circuit (2/2)

SCHEMATIC DIAGRAM - 2

A MAIN (MICON) CIRCUIT

—: +B SIGNAL LINE



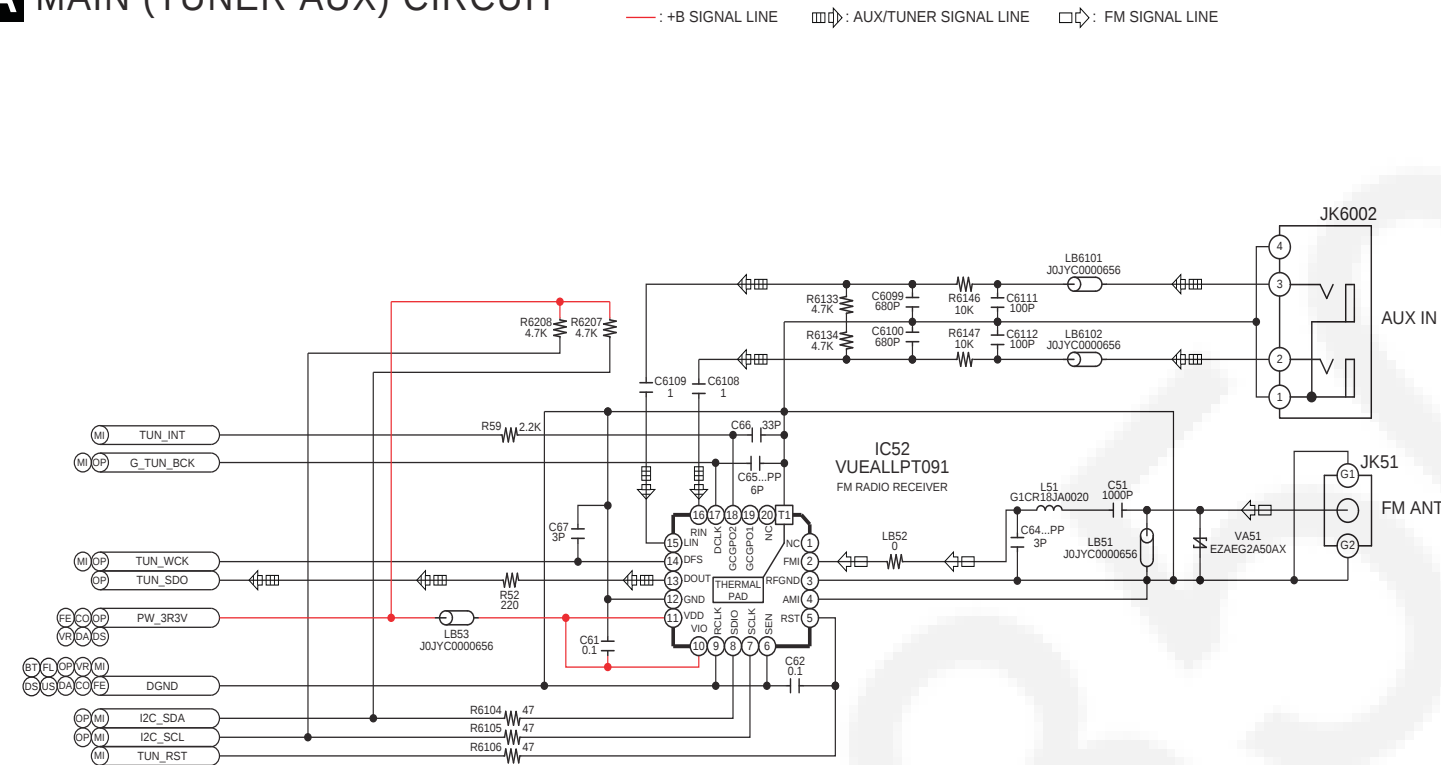
BT: MAIN (BLUETOOTH): SCHEMATIC DIAGRAM - 3
 CO: MAIN (CONNECTOR): SCHEMATIC DIAGRAM - 3
 FL: MAIN (FAN LED): SCHEMATIC DIAGRAM - 3
 FE: MAIN (FE): SCHEMATIC DIAGRAM - 4
 DA: MAIN (DAMP): SCHEMATIC DIAGRAM - 5
 DS: MAIN (DSP): SCHEMATIC DIAGRAM - 6
 OP: MAIN (OPT SRC): SCHEMATIC DIAGRAM - 7
 TU: MAIN (TUNER AUX): SCHEMATIC DIAGRAM - 8
 US: MAIN (USB): SCHEMATIC DIAGRAM - 8
 VR: MAIN (VOLTAGE REGULATOR): SCHEMATIC DIAGRAM - 9

1/2 2/2 SC-UA3GS/GSX/PP MAIN (MICON) CIRCUIT

4.3. Main (Tuner AUX) Circuit

SCHEMATIC DIAGRAM - 8

A MAIN (TUNER AUX) CIRCUIT

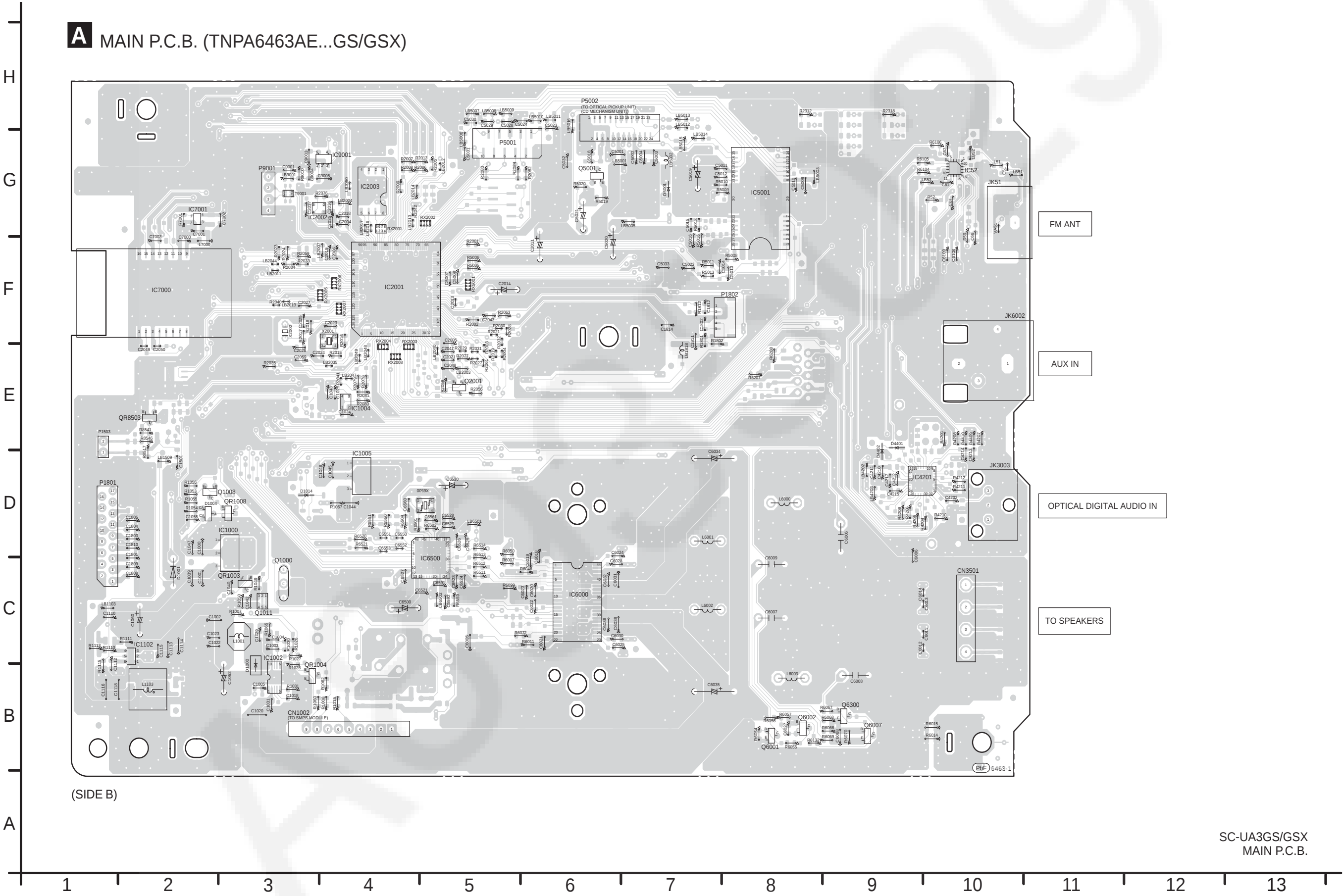


MA: MAIN (MAIN); SCHEMATIC DIAGRAM - 1 ~ 2
BT: MAIN (BLUETOOTH); SCHEMATIC DIAGRAM - 3
CO: MAIN (CONNECTOR); SCHEMATIC DIAGRAM - 3
FL: MAIN (FAN LED); SCHEMATIC DIAGRAM - 3
FE: MAIN (FE); SCHEMATIC DIAGRAM - 4
DA: MAIN (DAMP); SCHEMATIC DIAGRAM - 5
DS: MAIN (DSP); SCHEMATIC DIAGRAM - 6
OP: MAIN (OPT. SRC); SCHEMATIC DIAGRAM - 7
TU: MAIN (TUNER AUX); SCHEMATIC DIAGRAM - 8
US: MAIN (USB); SCHEMATIC DIAGRAM - 8
VR: MAIN (VOLTAGE REGULATOR); SCHEMATIC DIAGRAM - 9

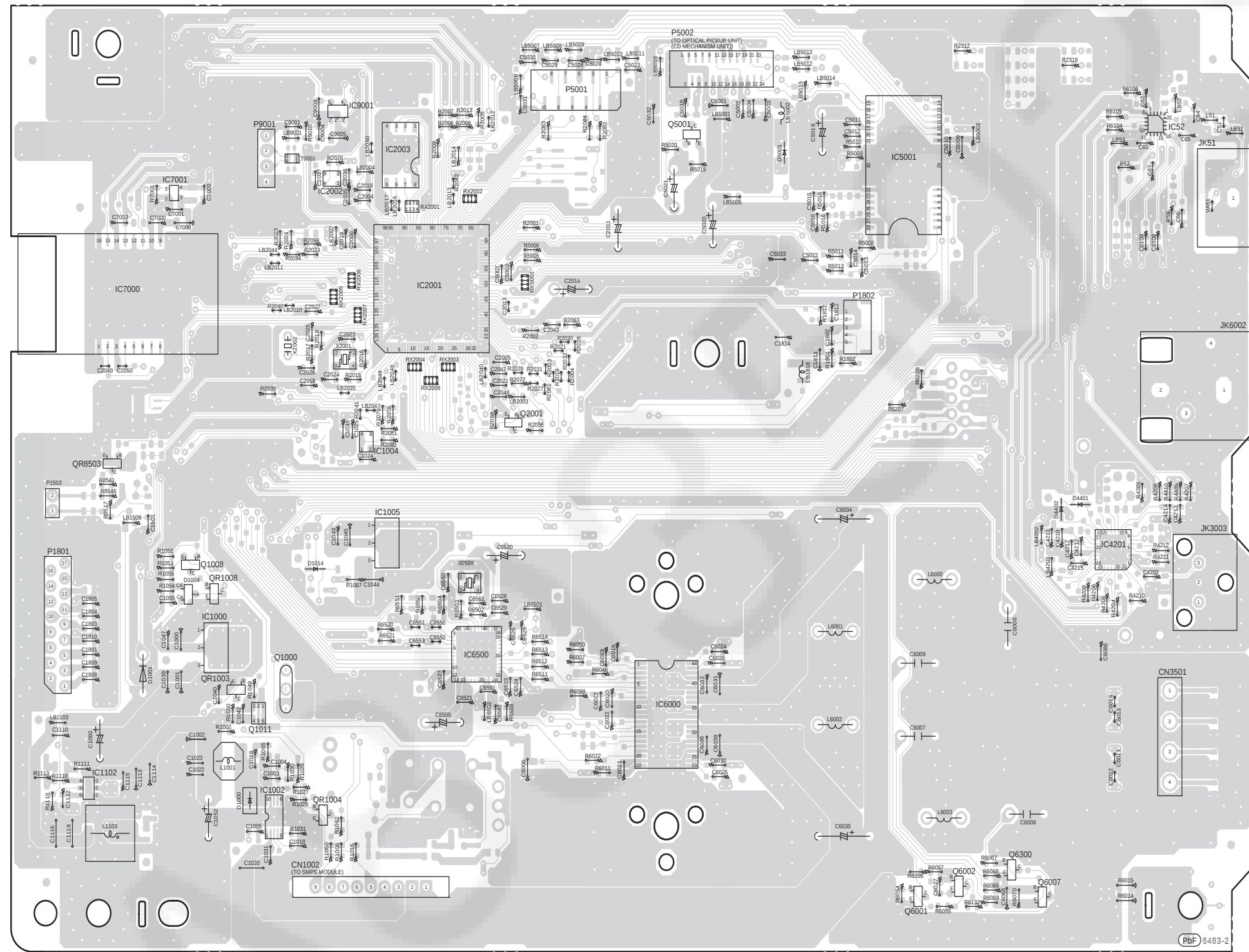
SC-UA3GS/GSX/PP MAIN (TUNER AUX) CIRCUIT

5 Printed Circuit Board

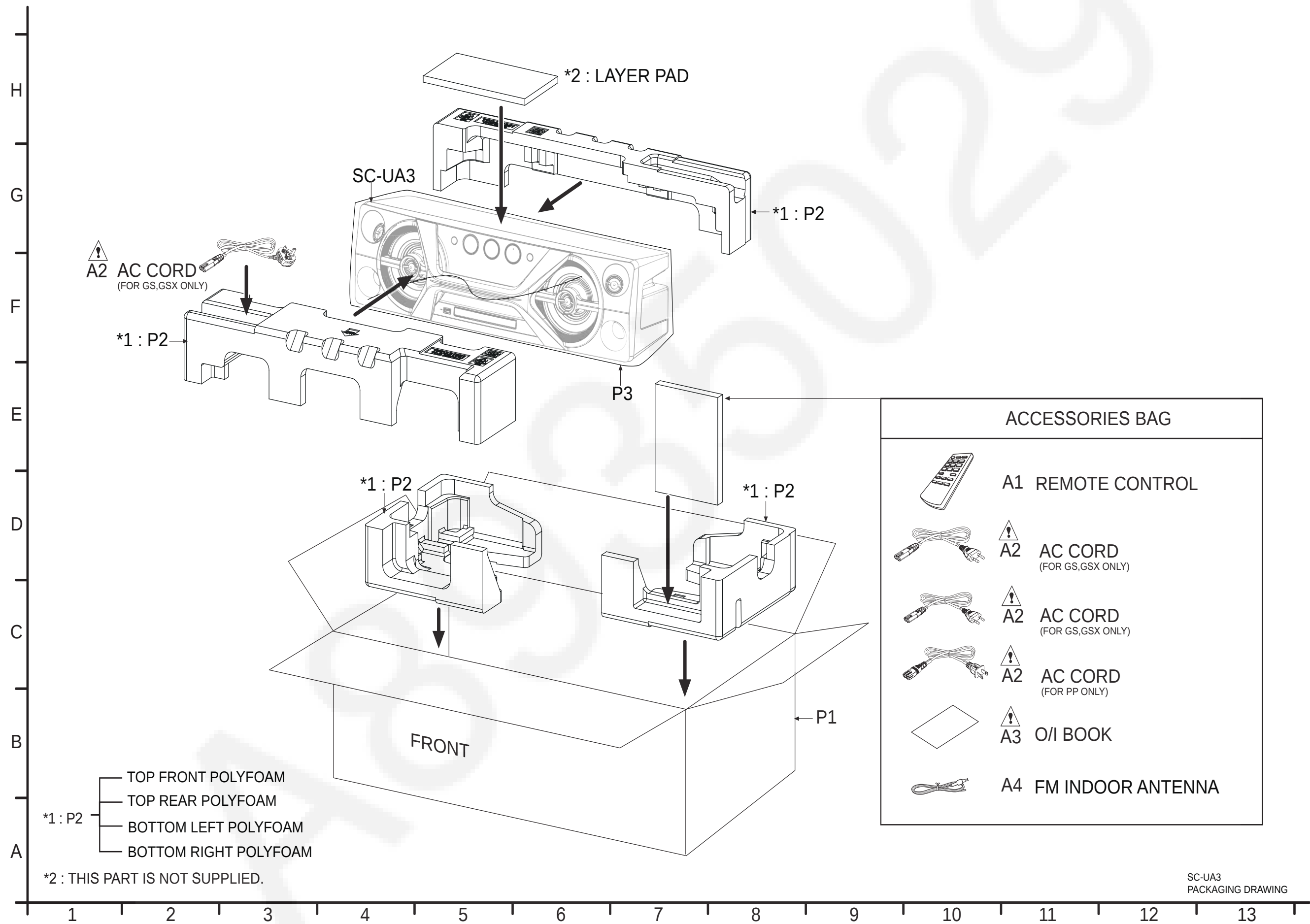
5.1. Main P.C.B. (Side B) (SC-UA3GS/GSX-K)



A



6 Packaging



7 Replacement Parts List

7.1. Parts List Difference points

Ref. No.	Parts No.		Parts name & Description	Remarks
	SC-UA3E-K	SC-UA3GS/GSX-K		
PCB1	TNPA6463AC	TNPA6463AE	MAIN P.C.B	(RTL)
PCB2	TNPA6522AC	TNPA6522AE	PANEL P.C.B	(RTL)
PCB3	TNPA6523AC	TNPA6523AE	MIC P.C.B	(RTL)
PCB4	TNPA6524AC	TNPA6524AE	USB P.C.B	(RTL)
PCB5	TNPA6525AC	TNPA6525AE	LED P.C.B	(RTL)
IC52	VUEALLPT094	VUEALLPT091	IC	(E.S.D)
R2022	D0GB203JA065	D0GB562JA065	5.6K 1/10W	
R2316	D0GBR00J0004	-	0 1/10W	
R2318	-	D0GBR00J0004	0 1/10W	
17	TBMK4906	TBMK4905	NAMEPLATE	⚠
P1	TPCD73101A	TPCD73001	PACKING CASE	
A2	-	K2CP2YY00061	AC CORD	⚠
A3	TQBJ2015-1	TQBJ2013	OI (En)	⚠
A3	TQBJ2016-1	TQBJ2014	OI (Ru/Ur/Cn/Ar)	⚠
A3	TQBJ2017-1	-	OI (Sp/Po/Cz)	⚠
A6	K1YZ02000013	-	ANTENNA PLUG ADAPTOR	
A8	K7CXJYA00001	-	OPTICAL CABLE	

Ref. No.	Parts No.		Parts name & Description	Remarks
	SC-UA3E-K	SC-UA3PP-K		
PCB1	TNPA6463AC	TNPA6463AF	MAIN P.C.B	(RTL)
PCB2	TNPA6522AC	TNPA6522AF	PANEL P.C.B	(RTL)
PCB3	TNPA6523AC	TNPA6523AF	MIC P.C.B	(RTL)
PCB4	TNPA6524AC	TNPA6524AF	USB P.C.B	(RTL)
PCB5	TNPA6525AC	TNPA6525AF	LED P.C.B	(RTL)
PCB7	N0AE1GN00001	N0AE1GN00004	SMPS MODULE	⚠
IC52	VUEALLPT094	VUEALLPT091	IC	(E.S.D)
C64	-	F1H1H3R0B050	3pF 50V	
C65	-	F1H1H6R0B050	6pF 50V	
R2022	D0GB203JA065	D0GB272JA065	2.7K 1/10W	
R2316	D0GBR00J0004	-	0 1/10W	
R2319	-	D0GBR00J0004	0 1/10W	
8	RFKHSCUA3PRK	RFKHSCUA3PPK	REAR CABINET ASS'Y	
9	RFKGSCUA3PUK	RFKGSCUA3PPK	FRONT PANEL ASS'Y	
12	RFKJSCUA3PUK	RFKJSCUA3PPK	BOTTOM FRAME ASS'Y	
17	TBMK4906	TBMK4908	NAMEPLATE	⚠
P1	TPCD73101A	TPCD73301	PACKING CASE	
A2	K2CQ2YY00107	K2CB2YY00065	AC CORD	⚠
A2	K2CT2YY00089	-	AC CORD	⚠
A3	TQBJ2015-1	TQBJ2018	OI (En/Sp/Cf)	⚠
A3	TQBJ2016-1	-	OI (Ge/Fr/It/Du)	⚠
A3	TQBJ2017-1	-	OI (Sp/Po/Cz)	⚠
A6	K1YZ02000013	-	ANTENNA PLUG ADAPTOR	
A8	K7CXJYA00001	-	OPTICAL CABLE	

PSG1707