

MHC-V11

SERVICE MANUAL

Ver. 1.0 2016.01

US Model
Canadian Model



Model Name Using Similar Mechanism	NEW
Mechanism Type	TDL-5W

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:
(The United States model only)
Left/Right Channel:
With 3 ohms loads, both channels driven, from 120 – 10,000 Hz; rated 30 watts per channel minimum RMS power, with no more than 0.7% total harmonic distortion from 250 milliwatts to rated output.

Amplifier section

The following are measured at
AC 120 V – 240 V, 50/60 Hz
Power Output (rated):
120 W (at 3 ohms, 1 kHz, 1% THD)
65 W × 2 (at 2 ohms, 1 kHz, 1% THD)
RMS output power (reference):
470 W (1 kHz)

Speaker section

Speaker system:
Tweeter + Woofer
Tweeter L/R:
50 mm (2 in), cone type
Woofer:
200 mm (7 7/8 in), cone type

Inputs

AUDIO/PARTY CHAIN IN L/R:
Voltage 2 V, impedance 10 kilohms
MIC 1, MIC 2:
Sensitivity 1 mV, impedance 10 kilohms

Outputs

AUDIO/PARTY CHAIN OUT L/R:
Voltage 2 V, impedance 600 ohms

Disc player section

System:
Compact disc and digital audio system
Laser Diode Properties
Emission Duration: Continuous
Laser Output*: Less than 44.6 μW
* This output is the value measurement at a distance of 200mm from the objective lens surface on the Optical Pick-up Block with 7mm aperture.

USB section

USB (USB) port:
Type A, maximum current 1 A

Supported audio formats (MP3 discs and USB devices only)

Supported bit rate:
MP3 (MPEG1 Audio Layer-3): 32 kbps – 320 kbps, VBR
WMA*: 32 kbps – 192 kbps, VBR
Sampling frequencies:
MP3 (MPEG1 Audio Layer-3): 32/44.1/48 kHz
WMA*: 44.1 kHz
* USB devices only

Tuner section

FM stereo
FM superheterodyne tuner
Antenna:
FM lead antenna
FM tuner section:
Tuning range:
87.5 MHz – 108.0 MHz (100 kHz step)

BLUETOOTH section

Communication system:
BLUETOOTH Standard version 3.0
Output:
BLUETOOTH Standard Power Class 2
Maximum communication range:
Line of sight approx. 10 m (33 feet)¹⁾
Frequency band:
2.4 GHz band (2.4000 GHz – 2.4835 GHz)
Modulation method:
FHSS (Freq Hopping Spread Spectrum)
Compatible BLUETOOTH profiles²⁾:
A2DP (Advanced Audio Distribution Profile)
AVRCP (Audio Video Remote Control Profile)
SPP (Serial Port Profile)
Supported codecs:
SBC (Sub Band Codec)
AAC (Advanced Audio Coding)
LDAC

¹⁾ The actual range will vary depending on factors such as obstacles between devices, magnetic fields around a microwave oven, static electricity, reception sensitivity, antenna's performance, operating system, software application, etc.

²⁾ BLUETOOTH standard profiles indicate the purpose of BLUETOOTH communication between devices.

General

Power requirements:
AC 120 V, 60 Hz
Power consumption:
45 W
Standby power consumption (at the Standby Mode):
When BLUETOOTH standby mode is set to off: 0.5 W (eco mode)
When BLUETOOTH standby mode is set to on: 2.8 W (all wireless network ports on)
Dimensions (W/H/D) (Approx.):
290 mm × 600 mm × 265 mm
(11 1/2 in × 23 5/8 in × 10 1/2 in)
Mass (Approx.):
10 kg (22 lb 1 oz)
Quantity of the system:
1 piece
Supplied accessories:
Remote control (1)
R03 (size AAA) batteries (2)
FM lead antenna (1)
AC power cord (1)

Design and specifications are subject to change without notice.

HOME AUDIO SYSTEM

9-896-262-01

2016A33-1

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Published by Sony Techno Create Corporation

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CAUTION

The use of optical instruments with this product will increase eye hazard.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer: Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes.). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

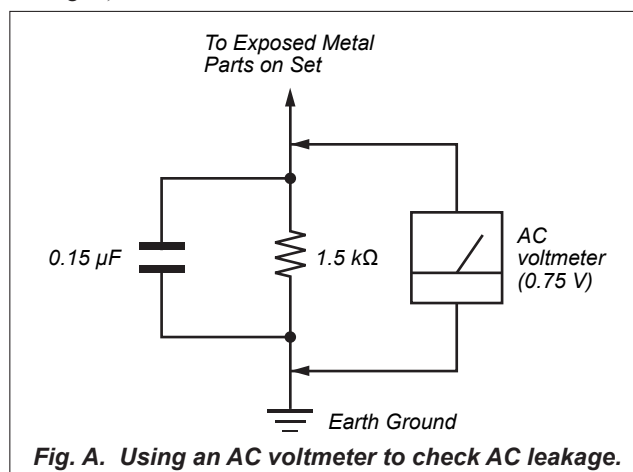


Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING!

COMPONENTS IDENTIFIED BY MARK $\triangle$ OR DOTTED LINE WITH MARK $\triangle$ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE $\triangle$ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1

SERVICING NOTES

TABLE OF CONTENTS

1. SERVICING NOTES	3
2. DISASSEMBLY	
2-1. Disassembly Flow.....	5
2-2. Left Side Cover, Right Side Cover	6
2-3. Top Cover Block.....	7
2-4. Main Volume Knob, MIC Volume Knob.....	8
2-5. CONTROL Board.....	9
2-6. Top Cover Assy, NFC Board	9
2-7. Loader (CDM1)	10
2-8. BT Board.....	11
2-9. Chassis Block.....	12
2-10. Front Panel Block	13
2-11. Tweeter Unit Wire.....	14
2-12. Tweeter Unit (SP2, SP3).....	15
2-13. LED A Board, LED B Board	16
2-14. Woofer Unit (SP1)	17
2-15. Loader Block.....	18
2-16. MAIN Board.....	19
2-17. PSU Board	19
3. TEST MODE	20
4. ELECTRICAL CHECKS	21
5. DIAGRAMS	
5-1. Block Diagram - OVERALL Section -	22
5-2. Block Diagram - POWER SUPPLY Section -	23
5-3. Printed Wiring Board - MAIN Board -	25
5-4. Schematic Diagram - MAIN Board (1/9) -	26
5-5. Schematic Diagram - MAIN Board (2/9) -	27
5-6. Schematic Diagram - MAIN Board (3/9) -	28
5-7. Schematic Diagram - MAIN Board (4/9) -	29
5-8. Schematic Diagram - MAIN Board (5/9) -	30
5-9. Schematic Diagram - MAIN Board (6/9) -	31
5-10. Schematic Diagram - MAIN Board (7/9) -	32
5-11. Schematic Diagram - MAIN Board (8/9) -	33
5-12. Schematic Diagram - MAIN Board (9/9) -	34
5-13. Printed Wiring Board - BT Board -	35
5-14. Schematic Diagram - BT Board -	35
5-15. Printed Wiring Board - NFC Board -	35
5-16. Schematic Diagram - NFC Board -	35
5-17. Printed Wiring Board - KARAOKE (MIC) Board -	36
5-18. Schematic Diagram - KARAOKE (MIC) Board -	36
5-19. Printed Wiring Board - LED A Board -	37
5-20. Schematic Diagram - LED A Board -	37
5-21. Printed Wiring Board - LED B Board -	37
5-22. Schematic Diagram - LED B Board -	37
5-23. Printed Wiring Board - CONTROL Board -	38
5-24. Schematic Diagram - CONTROL Board -	39
5-25. Printed Wiring Board - PSU Board -	40
5-26. Schematic Diagram - PSU Board -	41
6. EXPLODED VIEWS	
6-1. Side Cover Section.....	47
6-2. Top Cover Section.....	48
6-3. Woofer Unit Section	49
6-4. Front Panel Section.....	50
6-5. Main Section.....	51
7. ACCESSORIES	52

The **SERVICING NOTES** contains important information for servicing. Be sure to read this section before repairing the unit.

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pickup block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.

(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size)



: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.
Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
Soldering irons using a temperature regulator should be set to about 350 °C.
Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

REPAIRING THE BOARDS

When each boards installed in this unit are defective, replace the mounted board.

Individual electrical parts that mounted on the each boards cannot be replaced.

Printed wiring board and schematic diagram that have been described on this service manual are for reference.

NOTE OF REPLACING THE BT BOARD OR THE NFC BOARD

When replacing the BT board or the NFC board, be sure to replace the BT board and the NFC board simultaneously.

The BT board or the NFC board cannot replace with single.

Among the repair parts, the BT board and the NFC board is supplied as one unit.

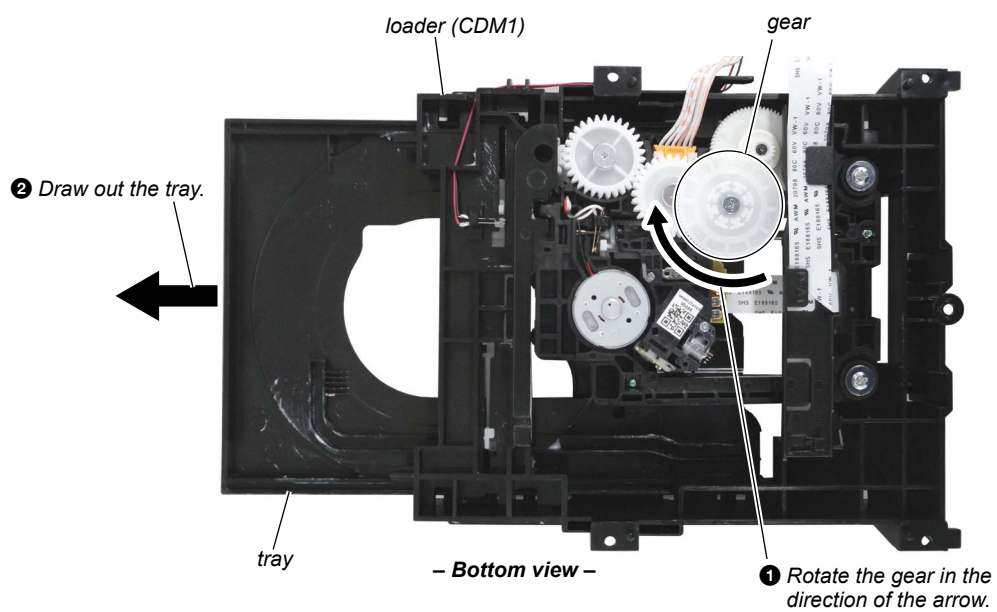
TEST DISCS

Use following TEST DISC (for CD) when this unit confirms the operation and checks it.

Part No.	Description
3-702-101-01	DISC (YEDS-18), TEST
4-225-203-01	DISC (PATD-012), TEST

HOW TO OPEN THE TRAY WHEN POWER SWITCH TURN OFF

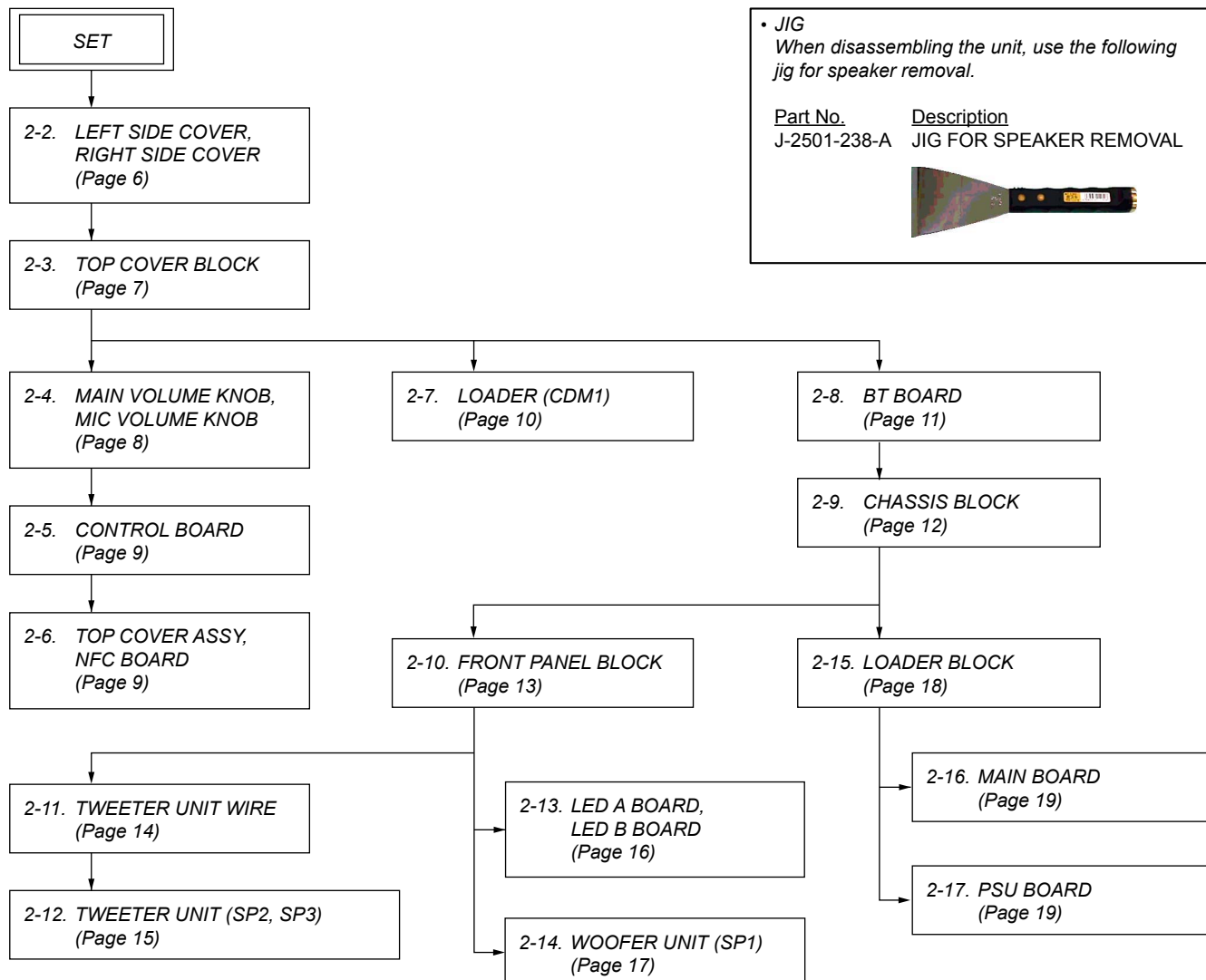
Note: Refer to “2. DISASSEMBLY” to remove the loader (CDM1) from the unit.



SECTION 2 DISASSEMBLY

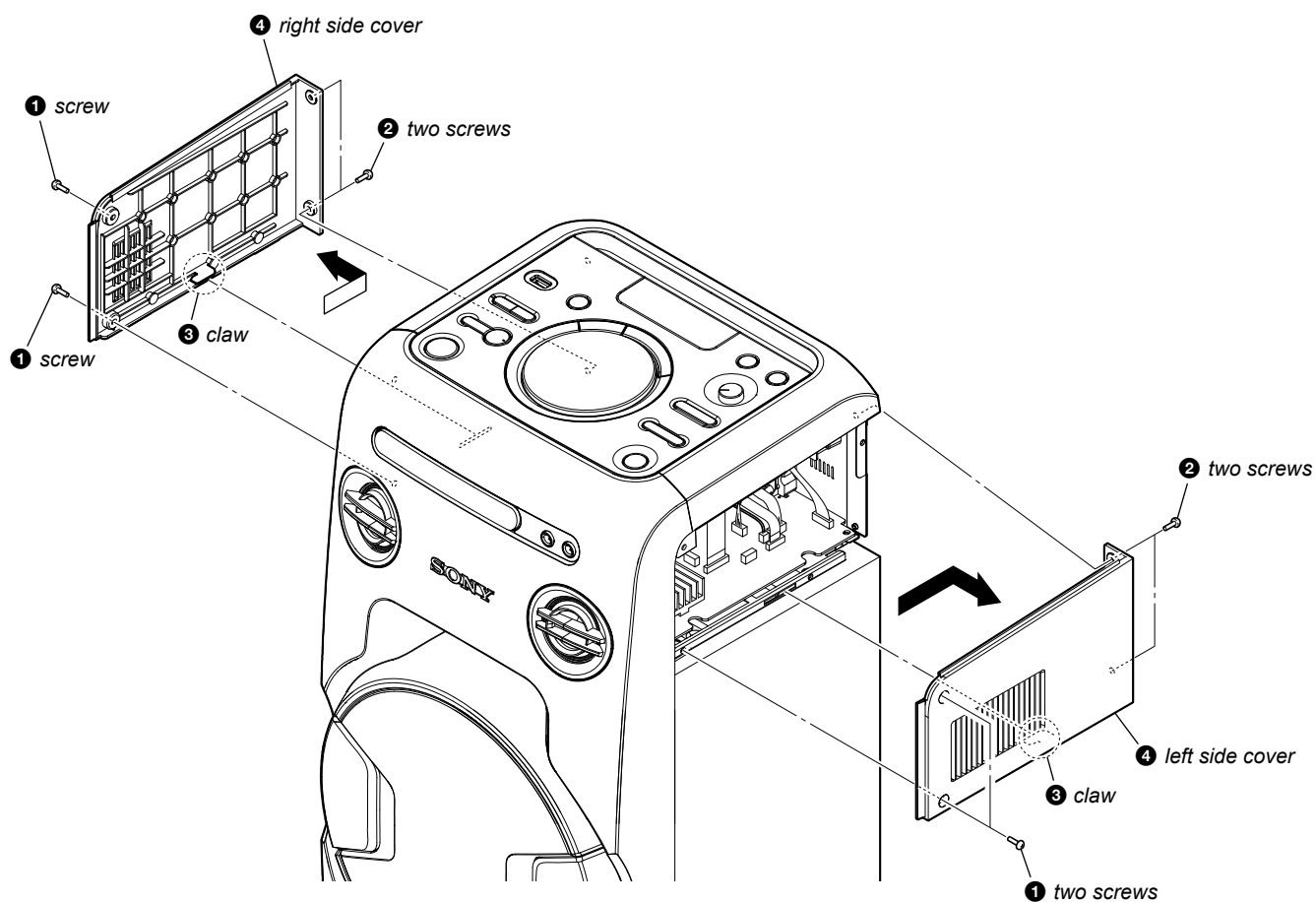
- This set can be disassembled in the order shown below.

2-1. DISASSEMBLY FLOW

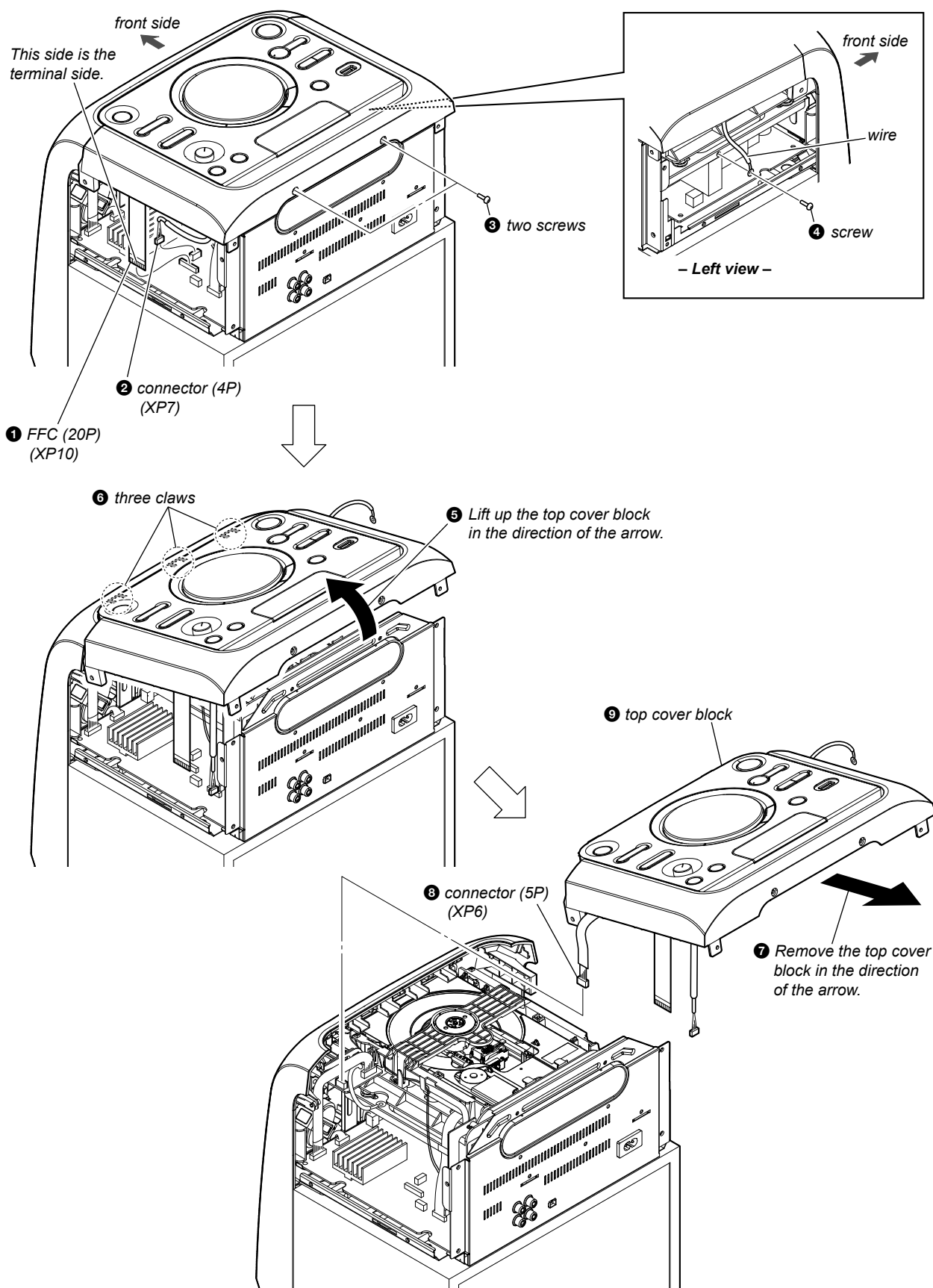


Note: Follow the disassembly procedure in the numerical order given.

2-2. LEFT SIDE COVER, RIGHT SIDE COVER

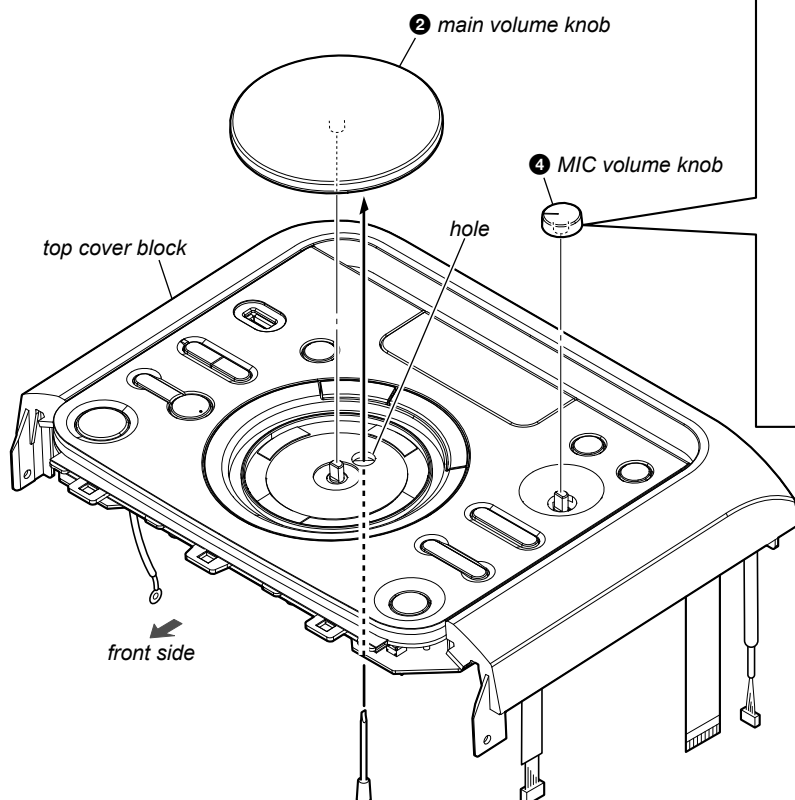


2-3. TOP COVER BLOCK



2-4. MAIN VOLUME KNOB, MIC VOLUME KNOB

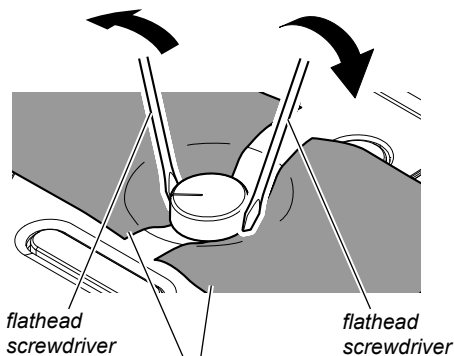
Note 1: The MIC volume knob can be removed even without removing the main volume knob.



1 Push the main volume knob by a flathead screwdriver.

3 Insert a flathead screwdriver at both sides of the MIC volume knob and lift at the same time.

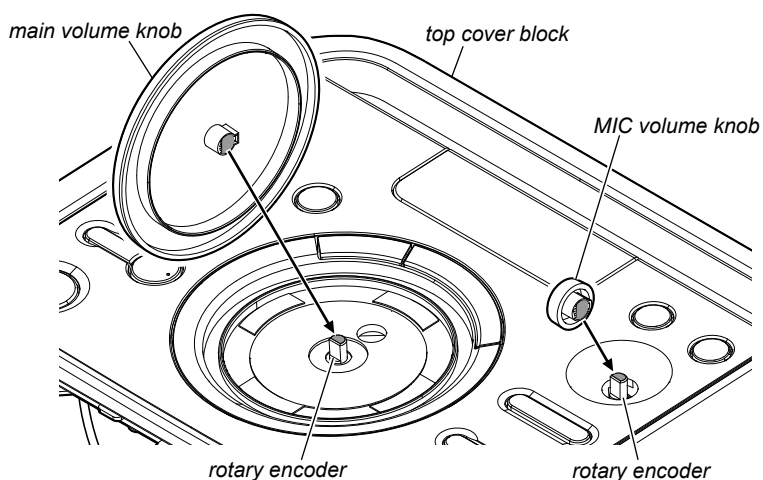
Note 2: When using a flathead screwdriver, work carefully so that you do not damage the MIC volume knob and top cover block.



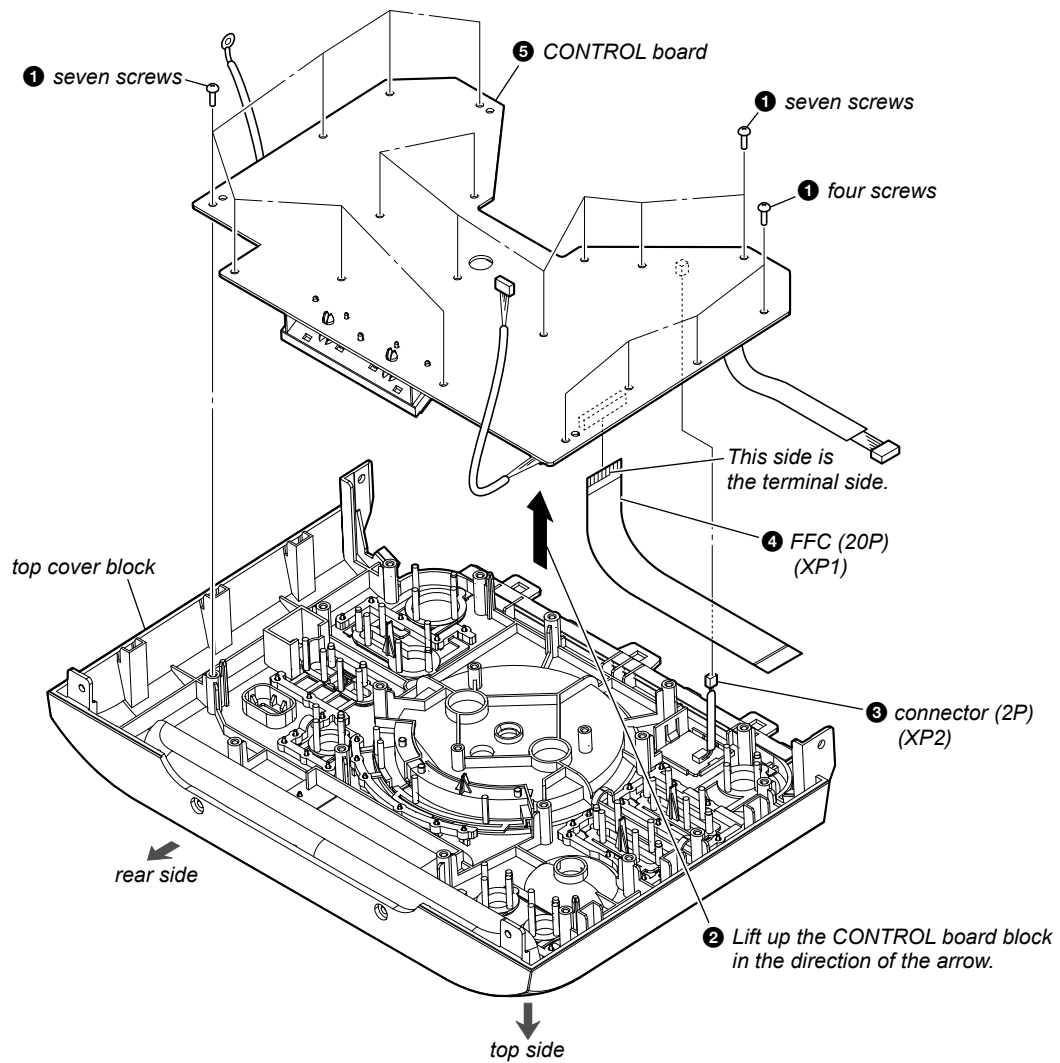
Note 3: Place soft pieces of cloth between the MIC volume knob and the top cover block to avoid damaging the top cover block.

• How to install the volume knob

When installing the volume knob to the rotary encoder, align the directions of the D-shaped tip of the rotary encoder and the D-shaped notch at the inner side of the volume knob.

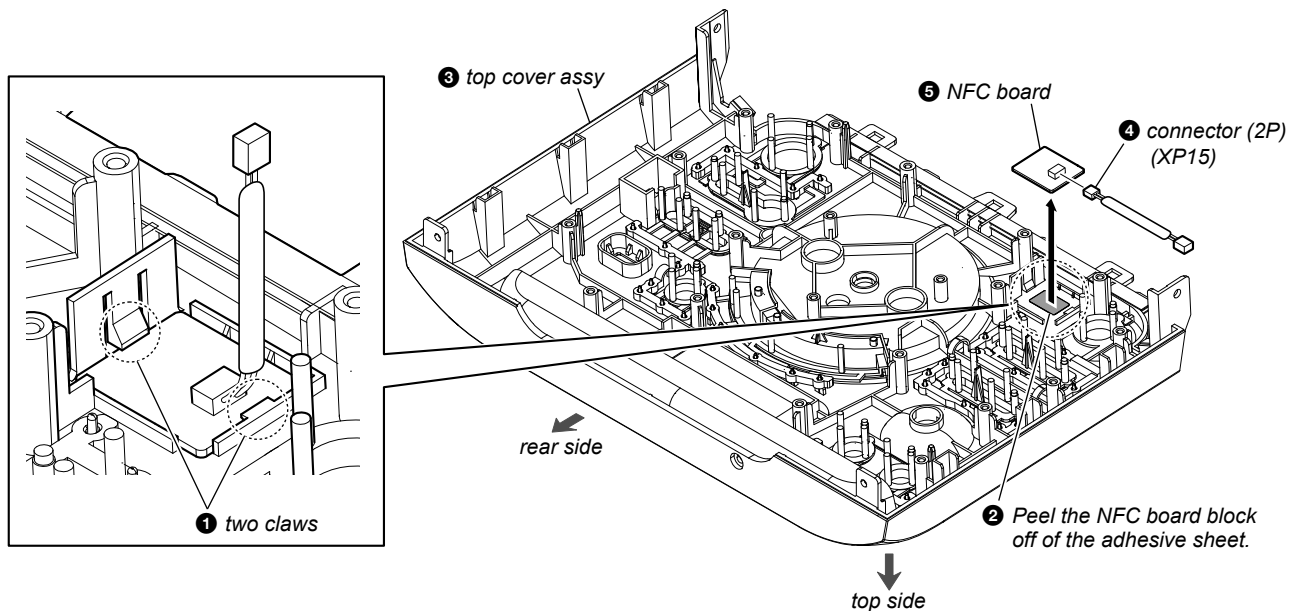


2-5. CONTROL BOARD

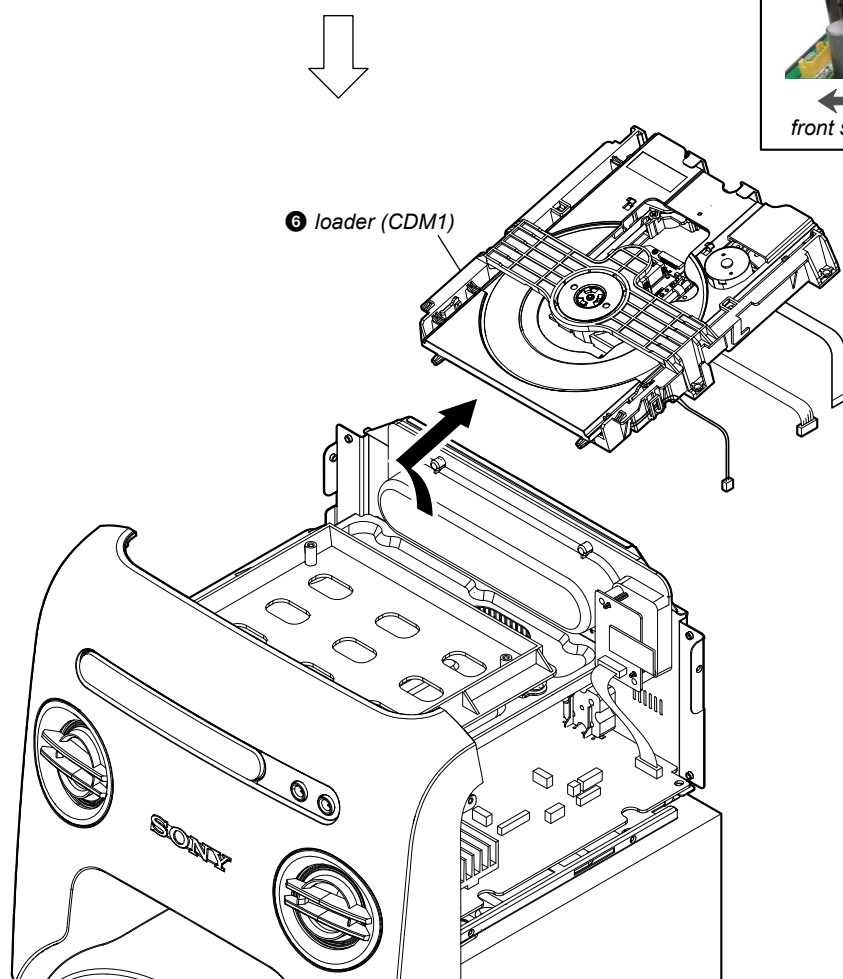
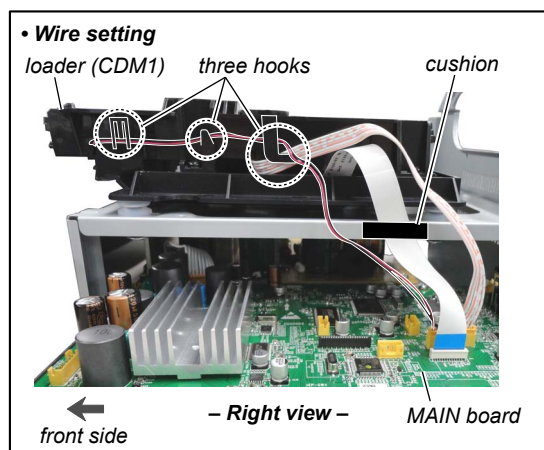
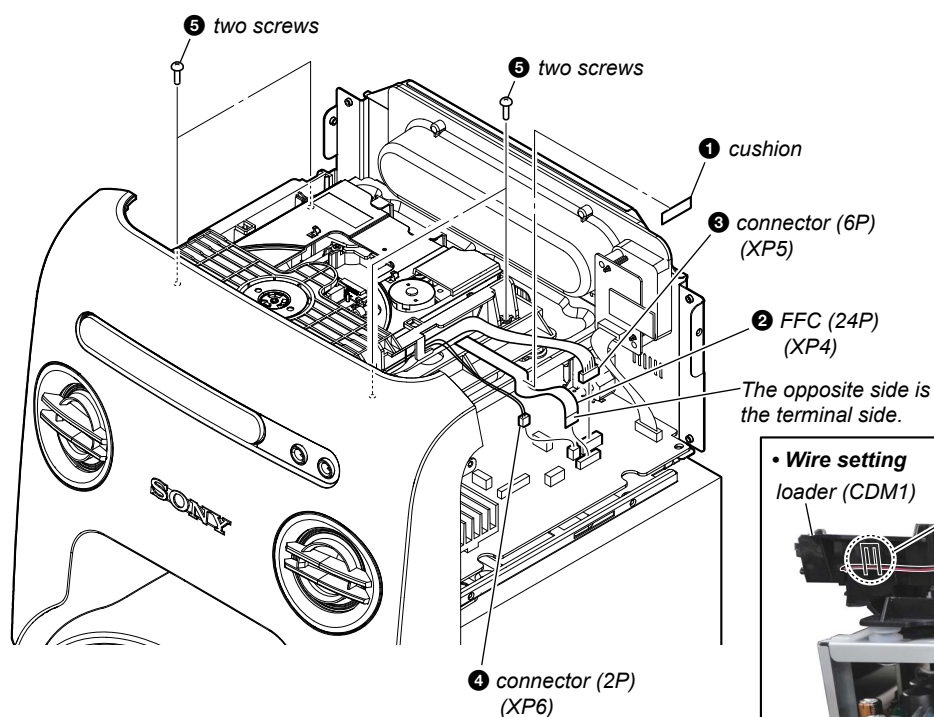


2-6. TOP COVER ASSY, NFC BOARD

Note: When replacing the NFC board, be sure to replace the BT board and the NFC board simultaneously. The NFC board cannot replace with single. Among the repair parts, the BT board and the NFC board is supplied as one unit.

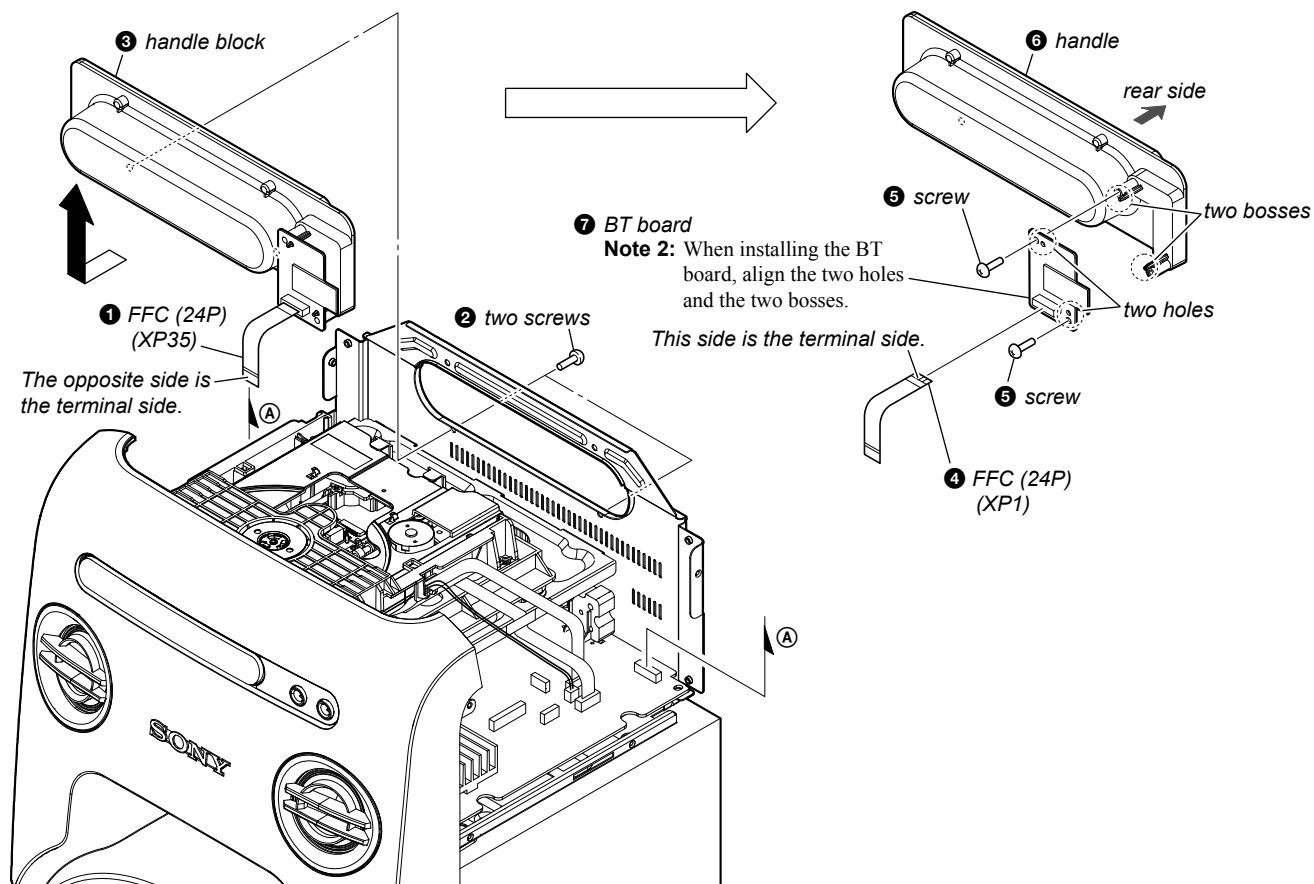


2-7. LOADER (CDM1)

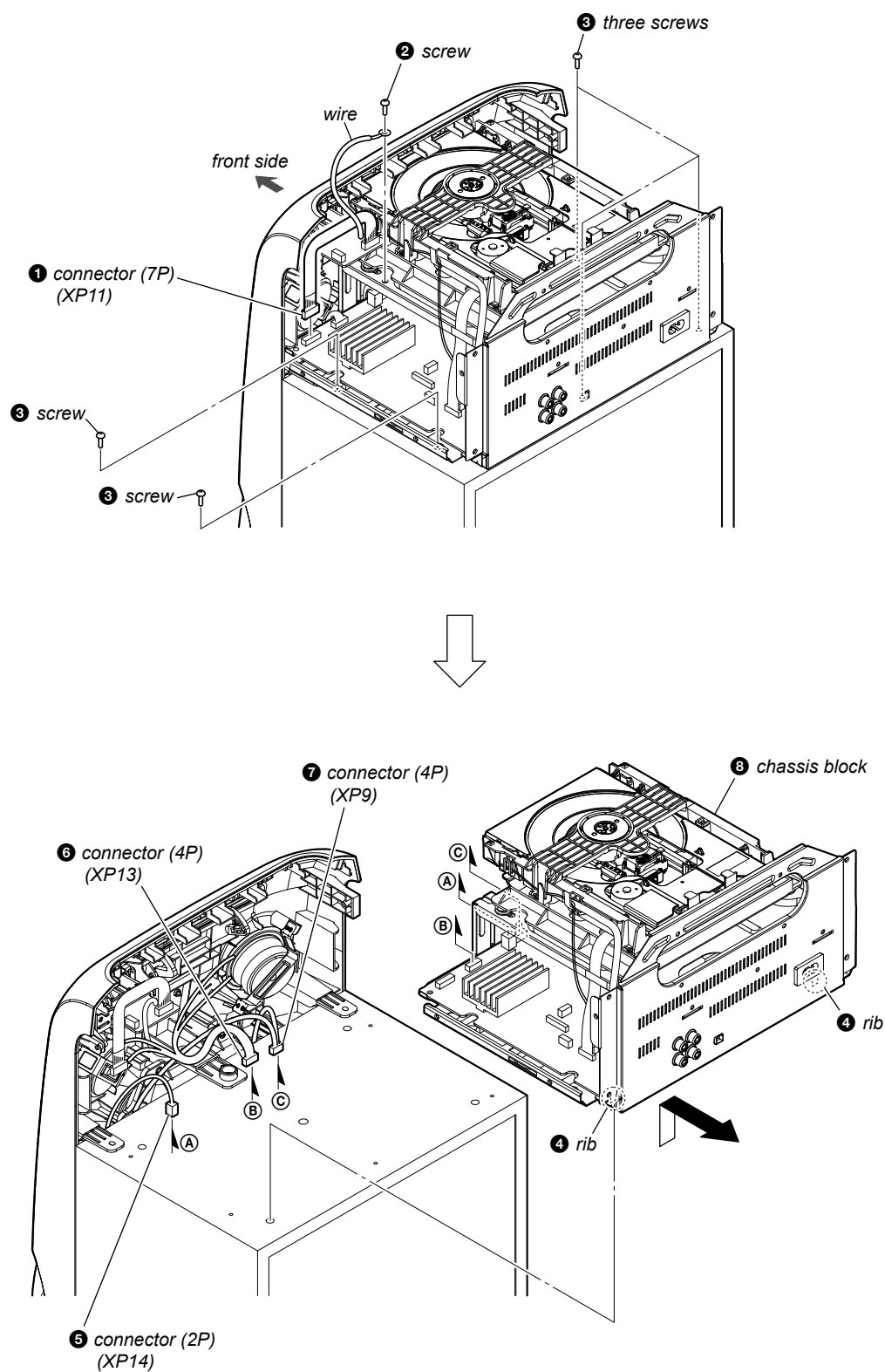


2-8. BT BOARD

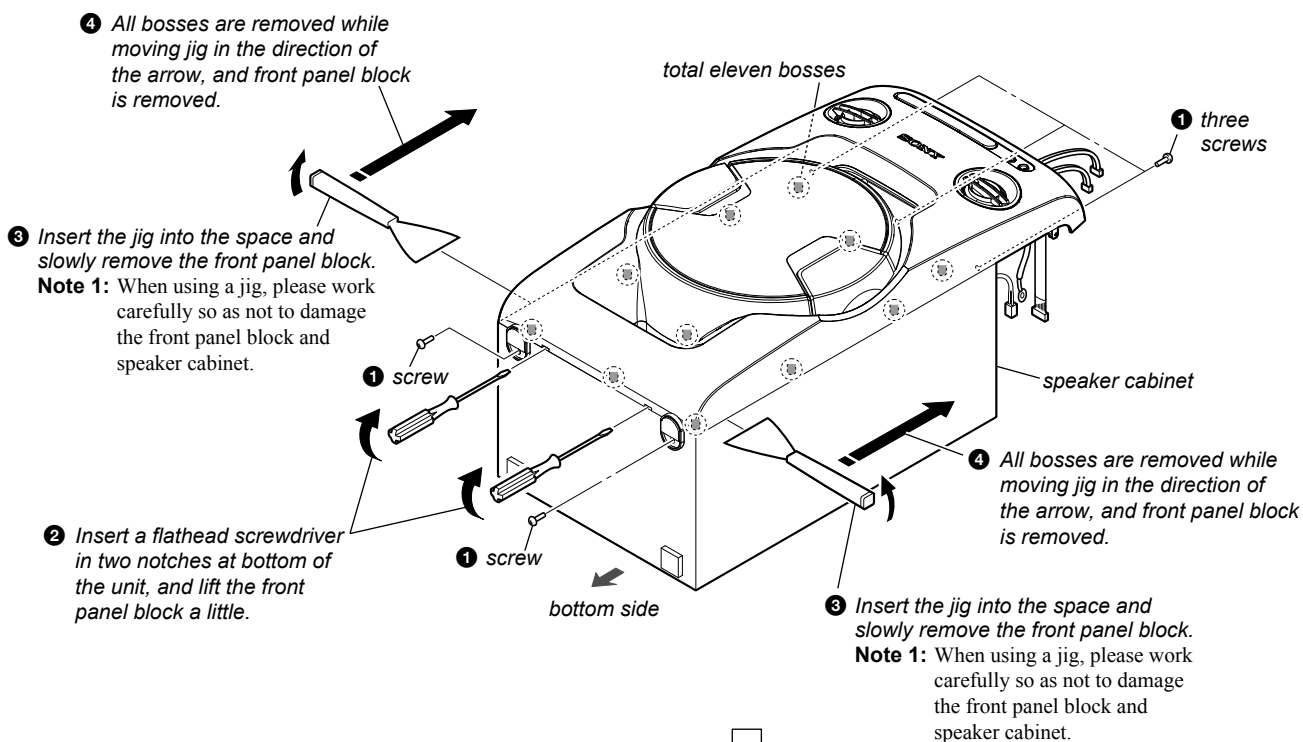
Note 1: When replacing the BT board, be sure to replace the BT board and the NFC board simultaneously. The BT board cannot replace with single. Among the repair parts, the BT board and the NFC board is supplied as one unit.



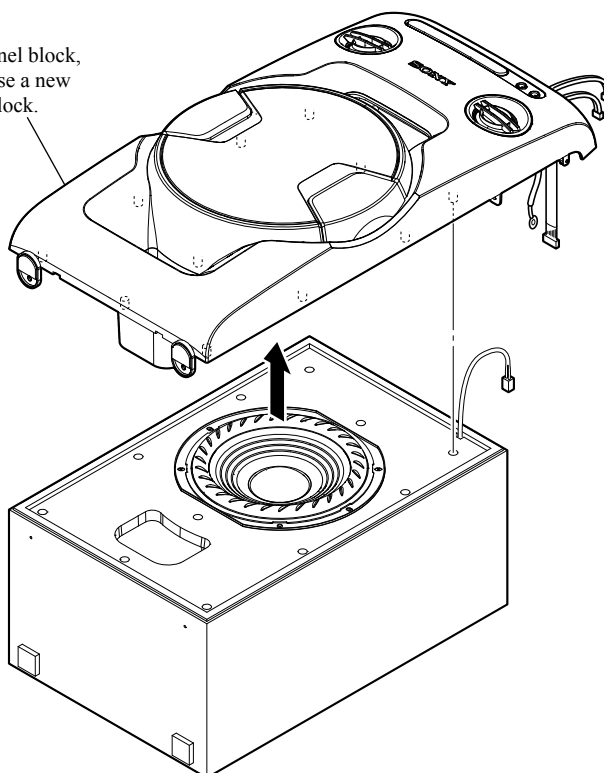
2-9. CHASSIS BLOCK



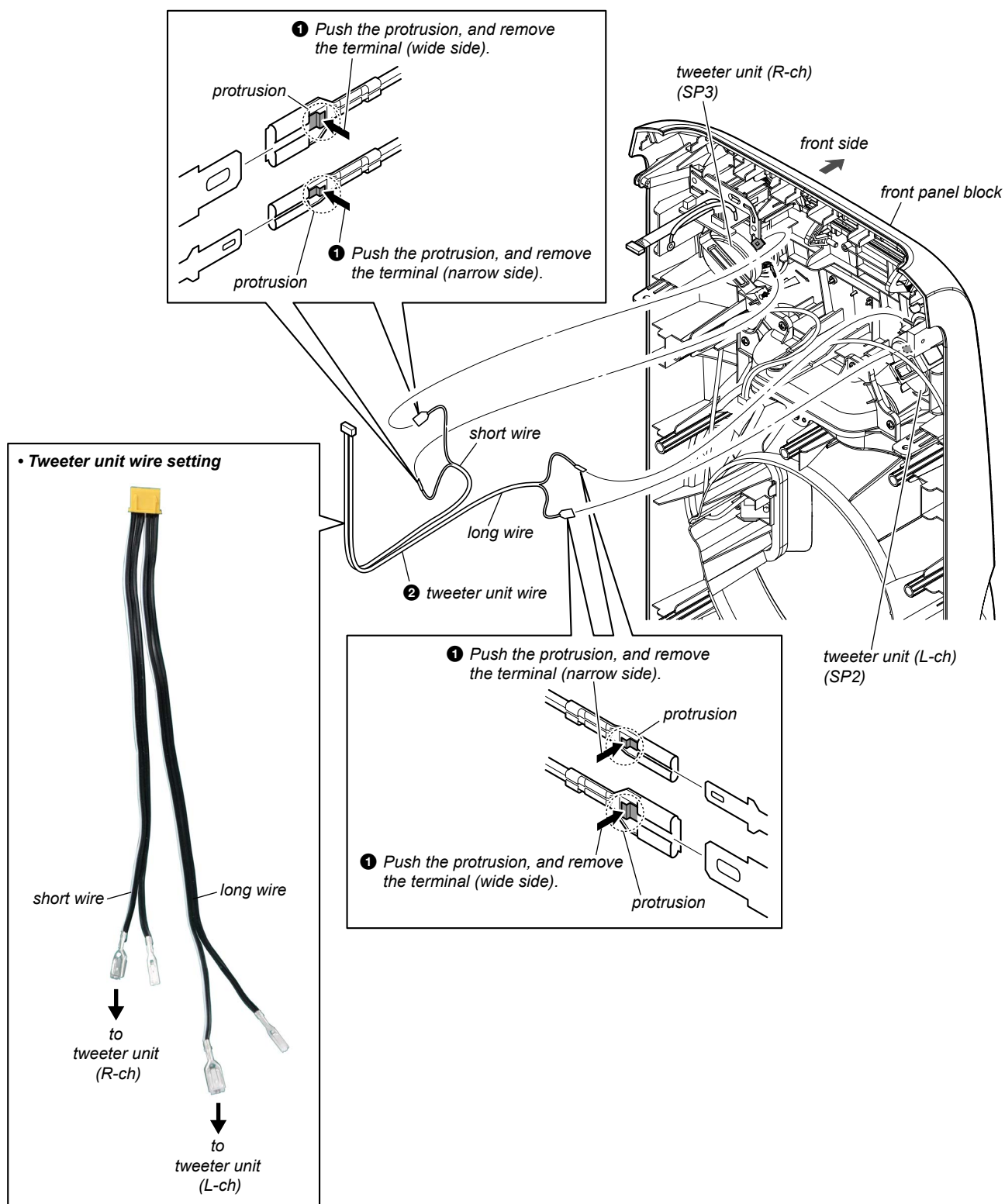
2-10. FRONT PANEL BLOCK



- 5** front panel block
Note 2: When installing the front panel block, remove the used bond and use a new bond to fix the front panel block.



2-11. TWEETER UNIT WIRE



2-12. TWEETER UNIT (SP2, SP3)

• **Installation direction for the tweeter unit (R-ch) (SP3)**

Install so that the terminal (narrow side) of the tweeter unit aligns with the direction of the arrow.



– Front panel block rear view –

③ tweeter unit (R-ch)
(SP3)

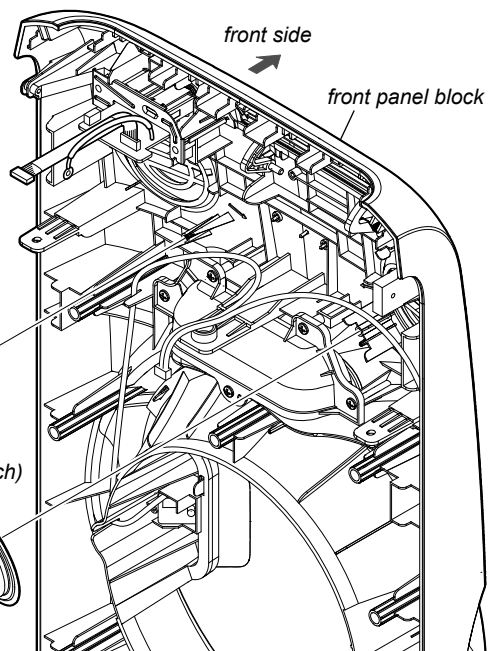
① two screws

② bracket

③ tweeter unit (L-ch)
(SP2)

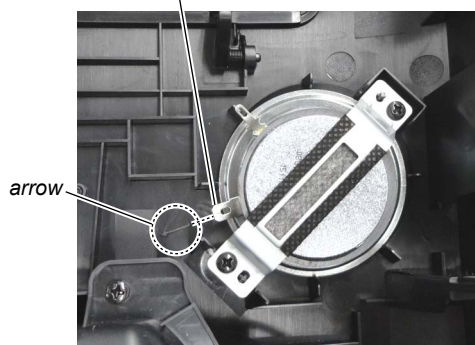
① two screws

② bracket



• **Installation direction for the tweeter unit (L-ch) (SP2)**

Install so that the terminal (wide side) of the tweeter unit aligns with the direction of the arrow.



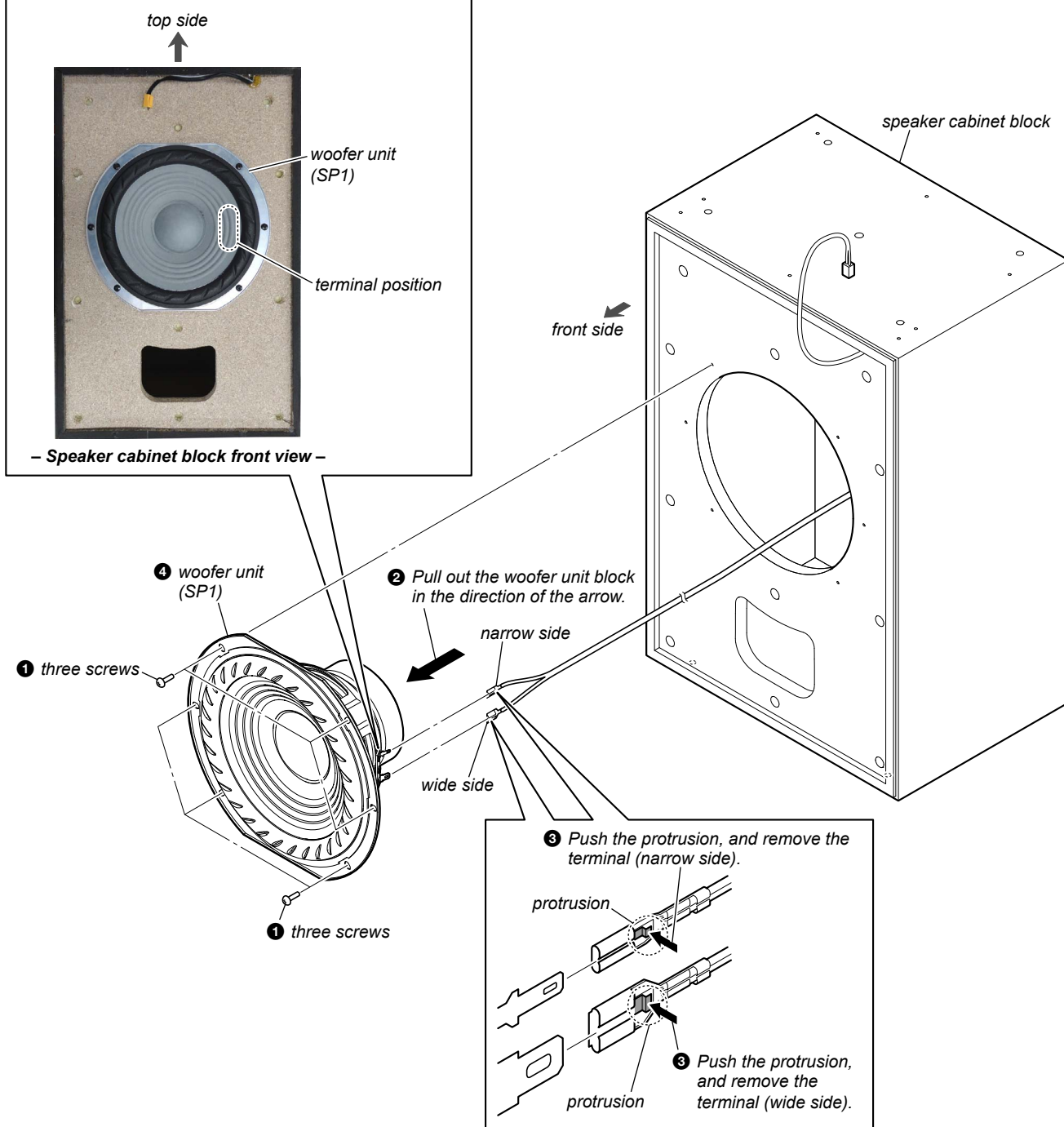
– Front panel block rear view –



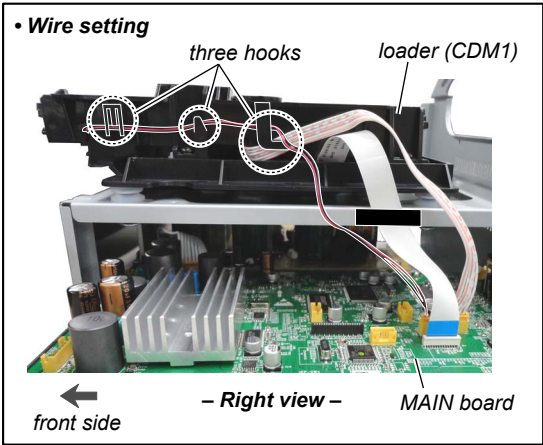
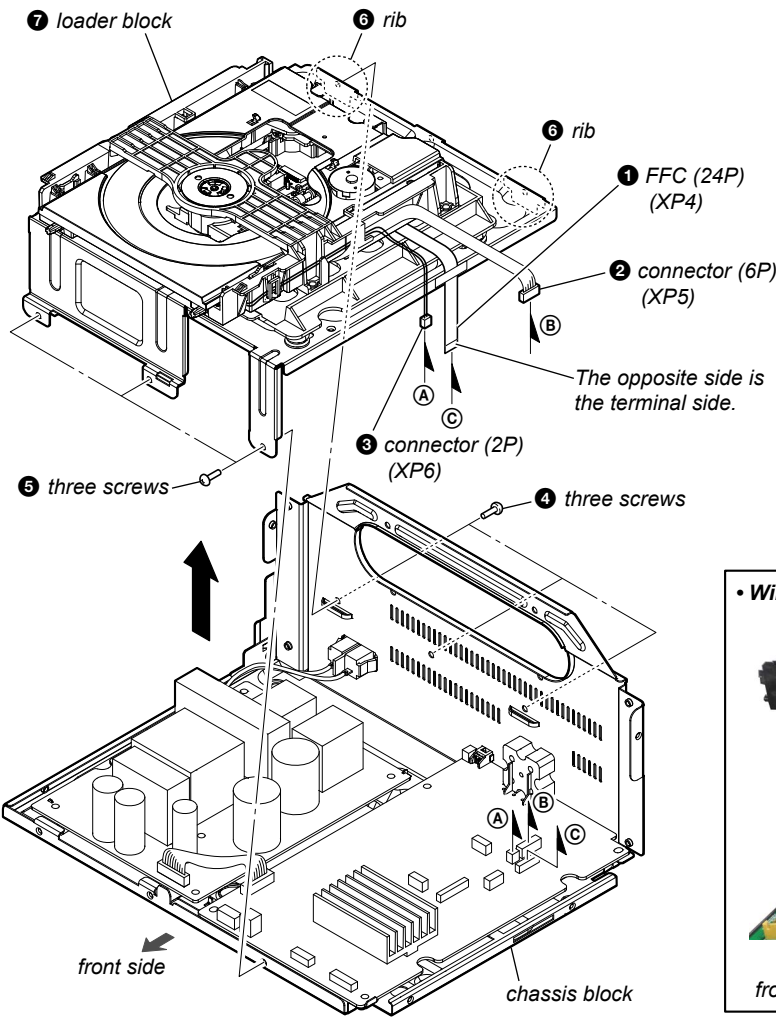
2-14. WOOFER UNIT (SP1)

• **Installation direction for the woofer unit (SP1)**

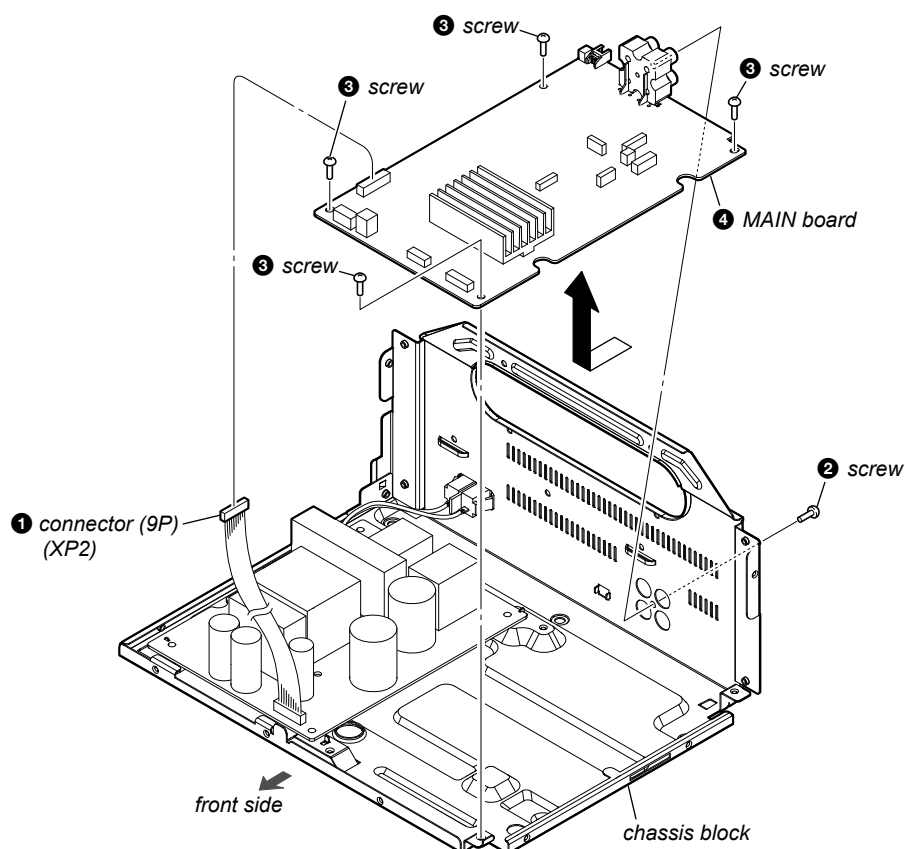
Note: When installing the woofer unit (SP1), make the position of terminals as shown in the figure below.



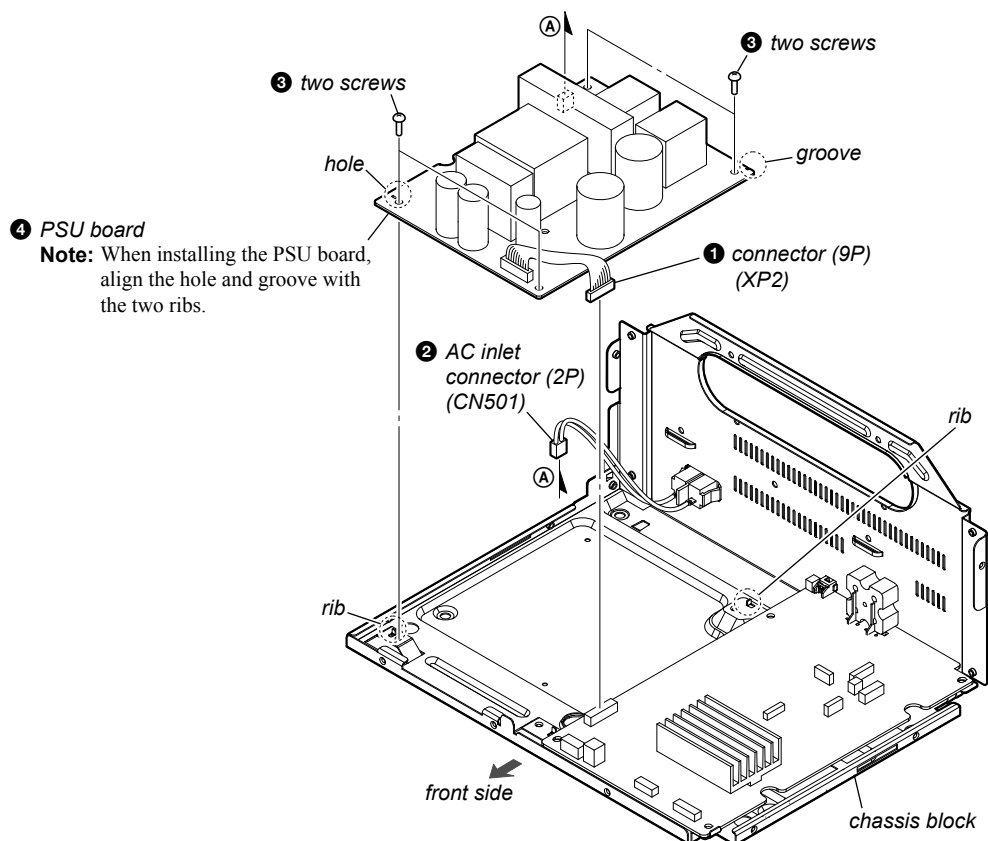
2-15. LOADER BLOCK



2-16. MAIN BOARD



2-17. PSU BOARD

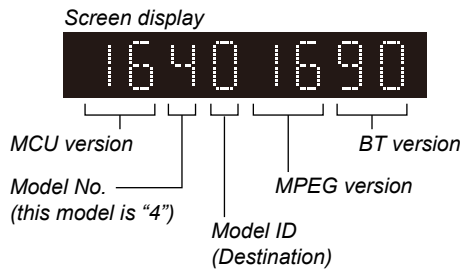


SOFTWARE VERSION DISPLAY

It can confirm the software version.

Procedure:

- 1. Press the [⏻] button to turn the power on.
- 2. Press the [FUNCTION] button to select the CD function.
- 3. Press the [▲] button to open the disc tray.
- 4. Press the button on the remote commander as following order, the software version is displayed on the fluorescent indicator tube.
[CLEAR] → [⬅] → [BACK]
(Displayed values in the following figure are example)



Model ID (Destination)

Model ID (Destination)	Display
US and Canadian models (UC2)	0

- 5. The software version display disappears in about 5 seconds, and it return to the display of the normal mode.

FACTORY RESET

It can reset all MPEG settings and clear the Bluetooth linked list. Execute this mode when returning the this unit to the customer.

Procedure:

- 1. Press the [⏻] button to turn the power on.
- 2. Press two buttons of the [■] and [⏮] simultaneously for 5 seconds.
- 3. The message “RESET” is displayed on the fluorescent indicator tube, and then reboot the system.

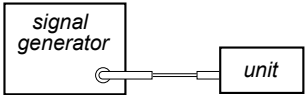


SECTION 4
ELECTRICAL CHECKS

TUNER SECTION

0 dB = 1 μ V

FM AUTO STOP CHECK



Procedure:

1. Press the [⏻] button to turn the power on.
2. Input the following signal from signal generator to FM antenna input directly.

Carrier frequency : A = 87.5 MHz, B = 98 MHz, C = 108 MHz
Deviation : 75 kHz
Modulation : 1 kHz
ANT input : 35 dBu (EMF)

Note: Use 75 ohm coaxial cable to connect signal generator and the unit.
You cannot use video cable for checking.
Use signal generator whose output impedance is 75 ohm.

3. Press the [FUNCTION] button to turn the FM tuner function and scan the input FM signal with automatic scanning.
4. Confirm that input frequency of A, B and C detected and automatic scanning stops.

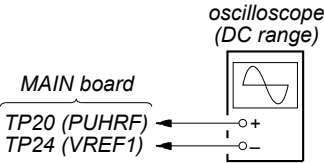
When the station signal is received in good condition, automatic scanning stops.

CD SECTION

Note:

1. CD block is basically constructed to operate without adjustment.
2. Use YEDS-18 disc (Part No. 3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10 M Ω impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following check.

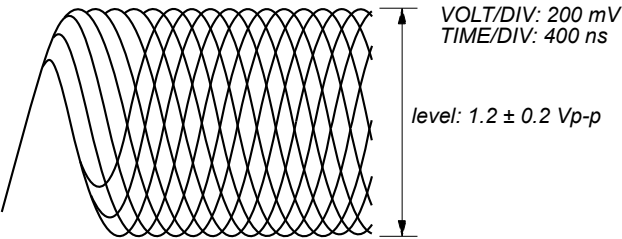
RF SIGNAL CHECK



Procedure:

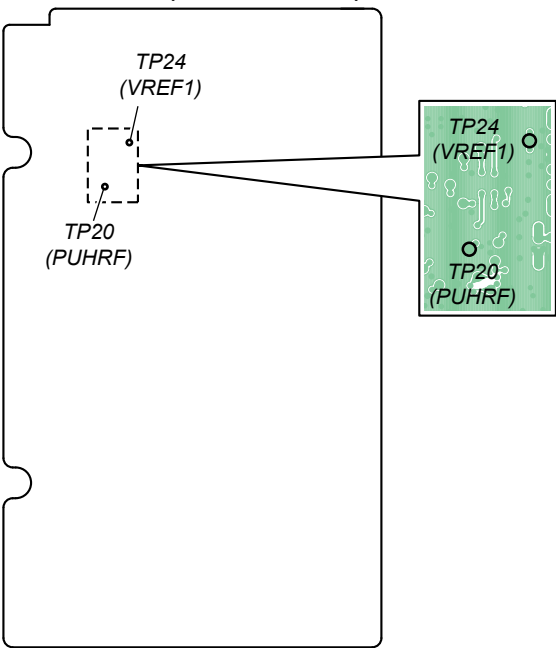
1. Connect the oscilloscope to TP20 (PUHRF) and TP24 (VREF1) on the MAIN board.
2. Press the [⏻] button to turn the power on.
3. Press the [FUNCTION] button to turn the CD function.
4. Press the [▶] button to open the disc tray.
5. Set the test disc (YEDS-18) on the disc tray.
6. Press the [▶] button to close the disc tray.
7. Press the [▶] button to playback.
8. Confirm that oscilloscope waveform is as shown in the figure below. (eye pattern)

A good eye pattern means that the diamond shape (◇) in the center of the waveform can be clearly distinguished.



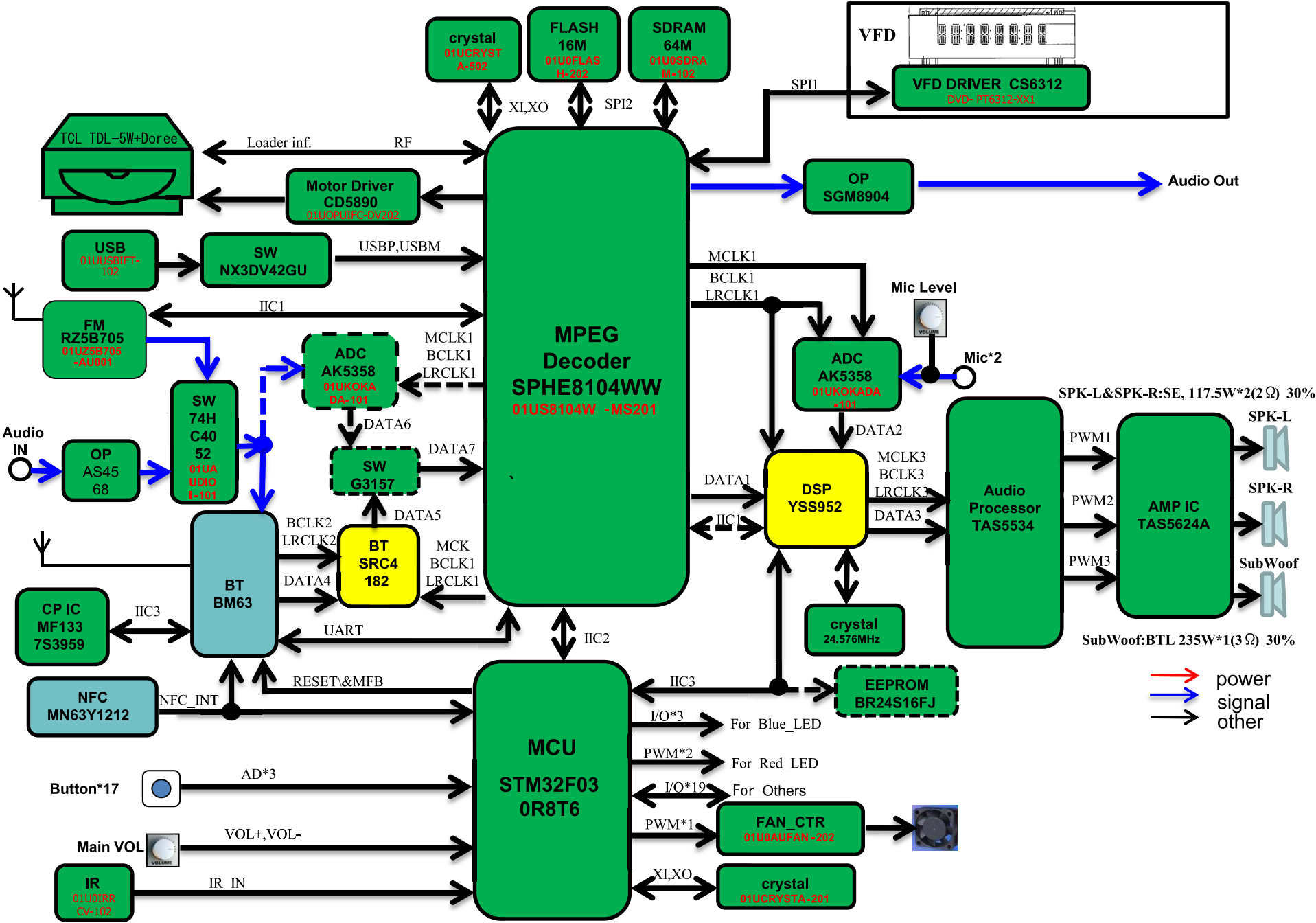
Connection Location:

– MAIN Board (Conductor Side) –

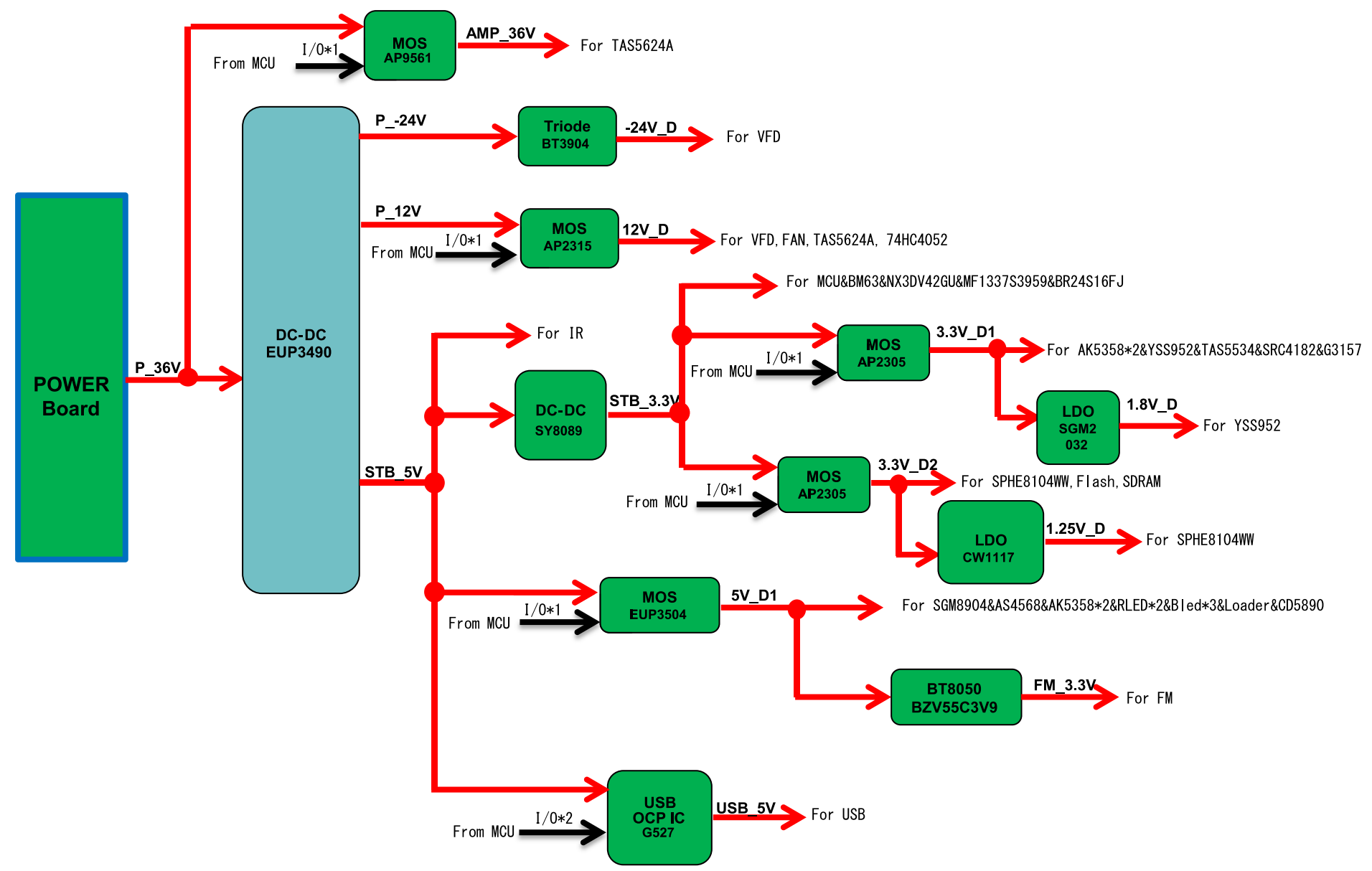


SECTION 5
DIAGRAMS

5-1. BLOCK DIAGRAM - OVERALL Section -



5-2. BLOCK DIAGRAM - POWER SUPPLY Section -



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For Printed Wiring Boards.

Note:

- Pattern from the side which enables seeing.
(The other layers' patterns are not indicated.)

Caution:

Pattern face side:	Parts on the pattern face side seen (Conductor Side)	from the pattern face are indicated.
Parts face side:	Parts on the parts face side seen from (Component Side)	the parts face are indicated.

Note: When replacing the BT board or the NFC board, be sure to replace the BT board and the NFC board simultaneously.
The BT board or the NFC board cannot replace with single.
Among the repair parts, the BT board and the NFC board is supplied as one unit.

For Schematic Diagrams.

Note:

- All capacitors are in μF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.

Note:

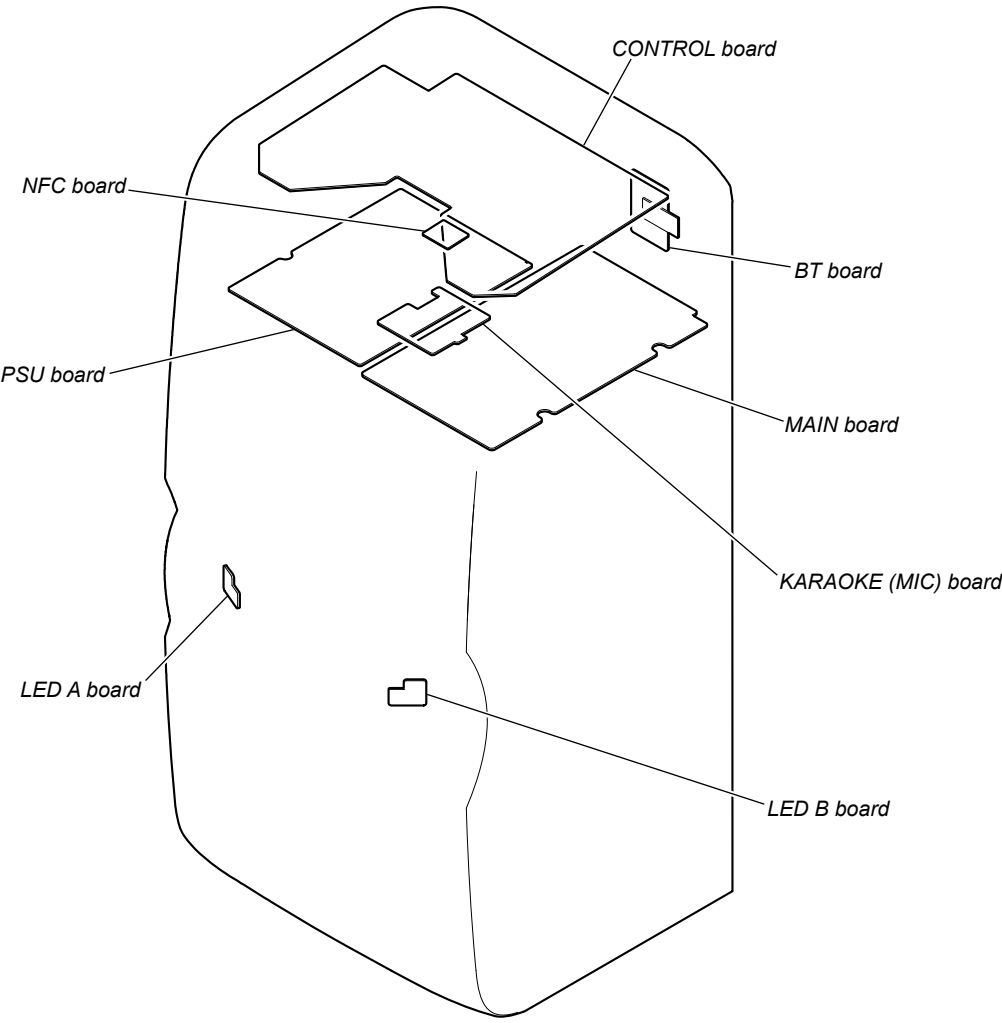
The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety.
Replace only with part number specified.

Note:

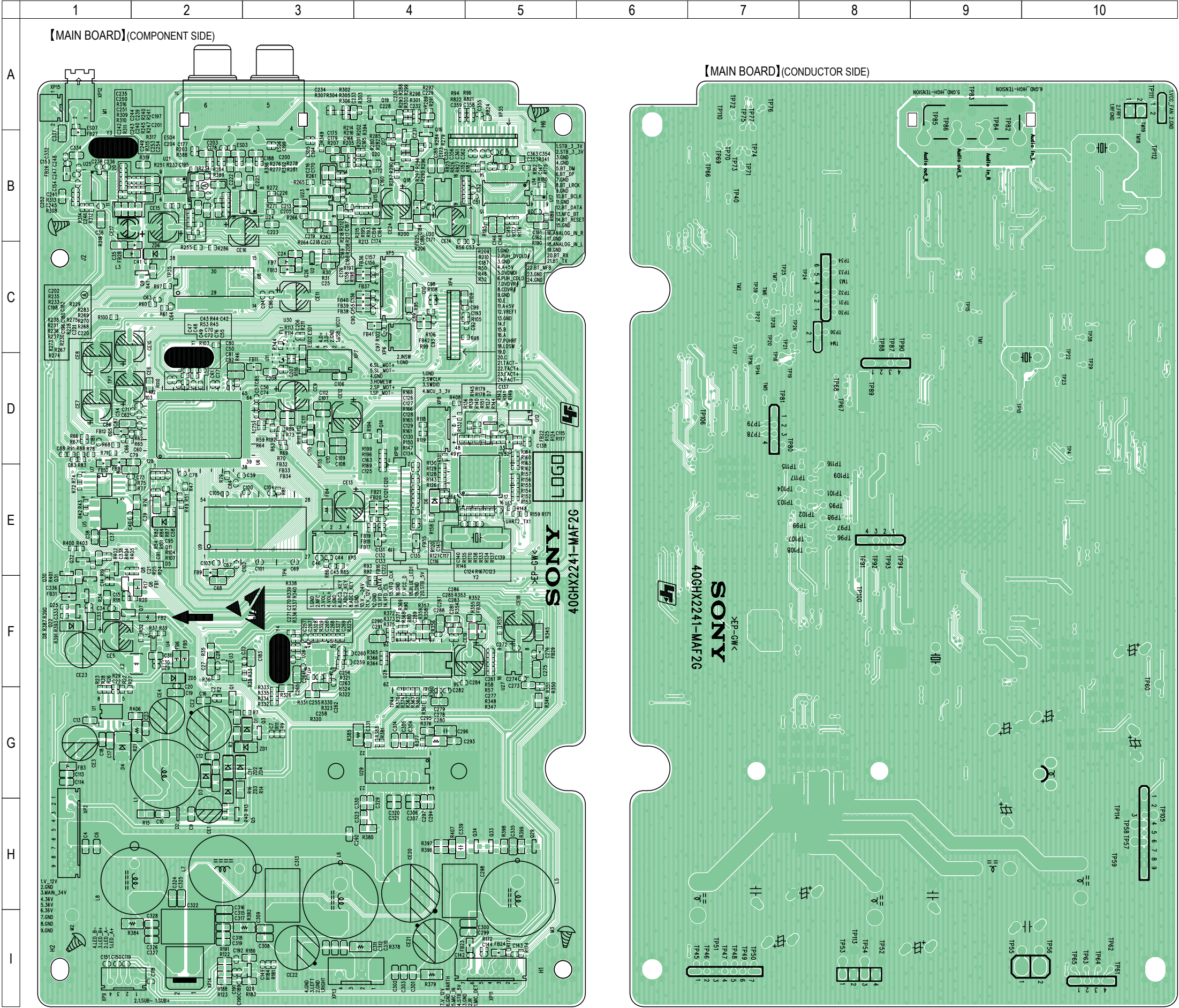
Les composants identifiés par une marque $\triangle$ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Note: When replacing the BT board or the NFC board, be sure to replace the BT board and the NFC board simultaneously.
The BT board or the NFC board cannot replace with single.
Among the repair parts, the BT board and the NFC board is supplied as one unit.

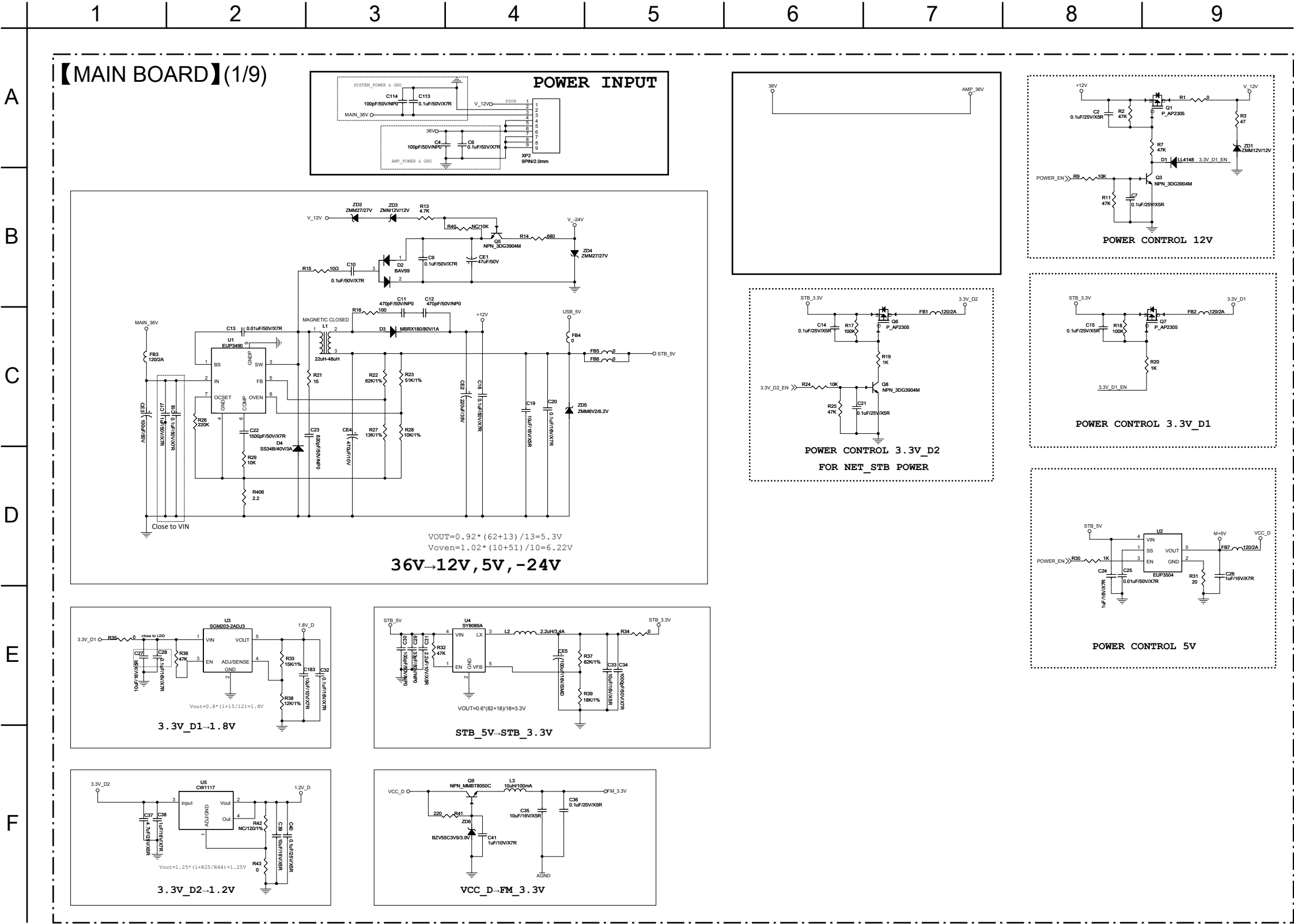
• Circuit Boards Location



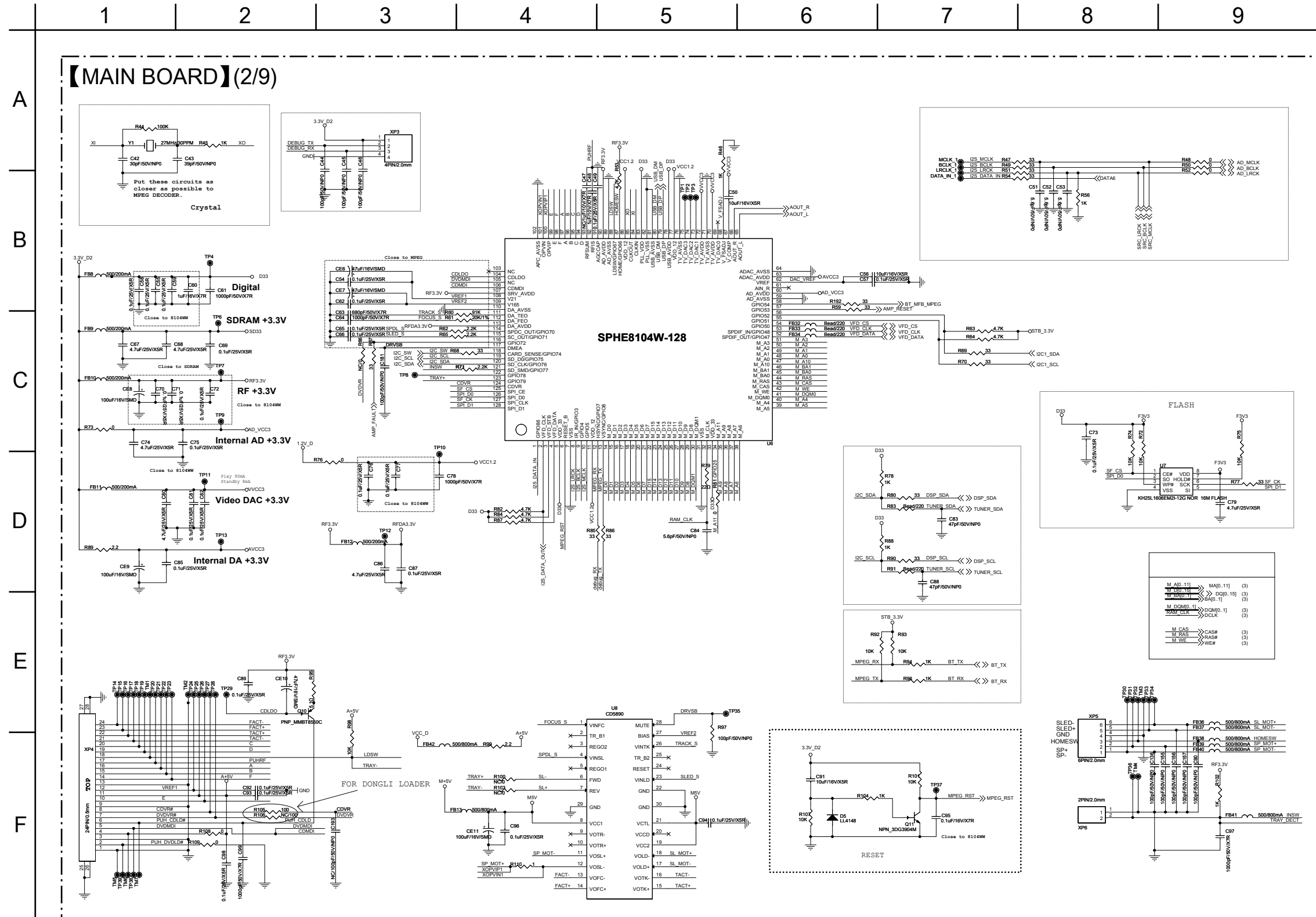
5-3. PRINTED WIRING BOARD - MAIN Board - • See page 24 for Circuit Boards Location. • : Uses unleaded solder.



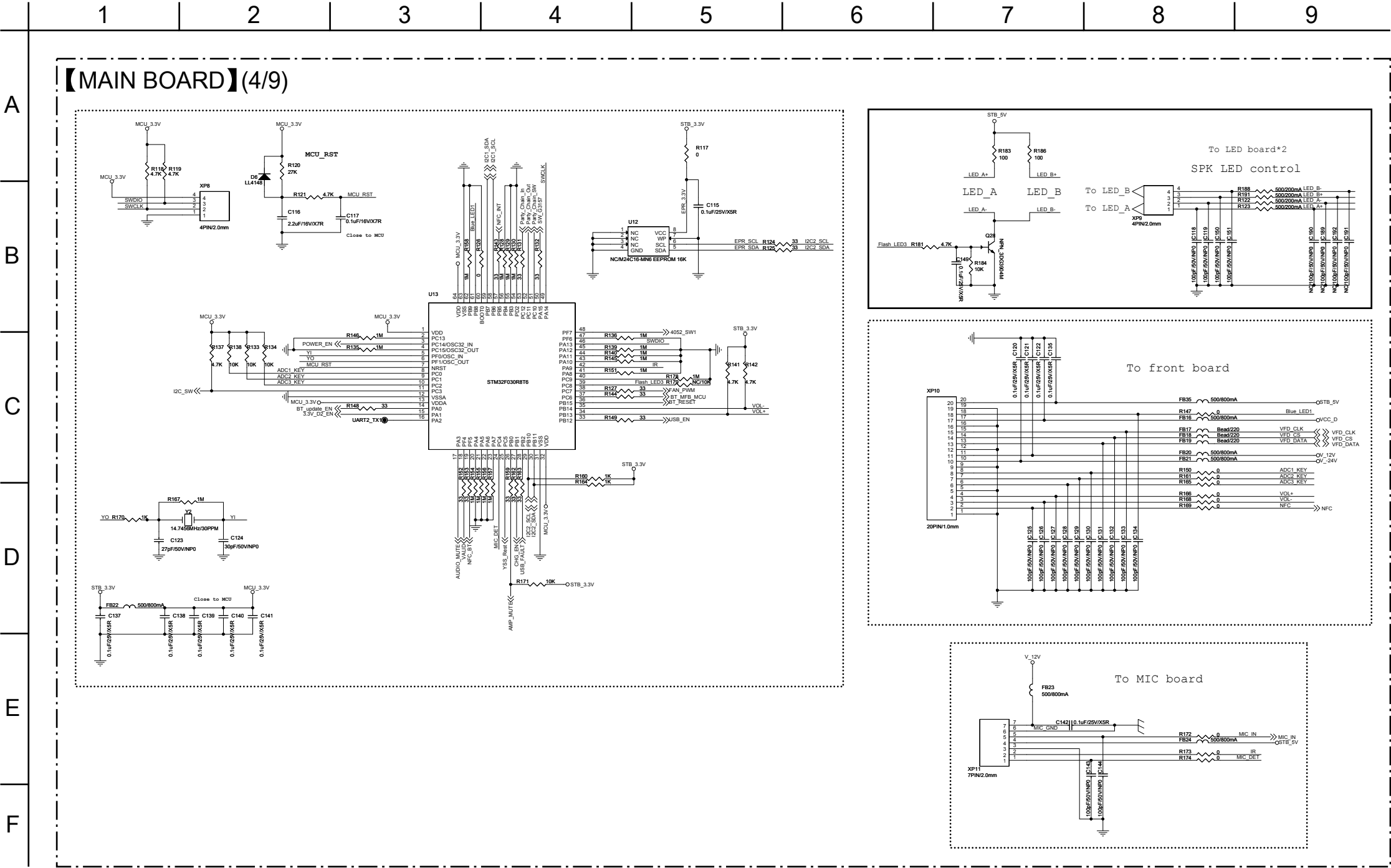
5-4. SCHEMATIC DIAGRAM - MAIN Board (1/9) - • See page 42 for IC Block Diagrams.



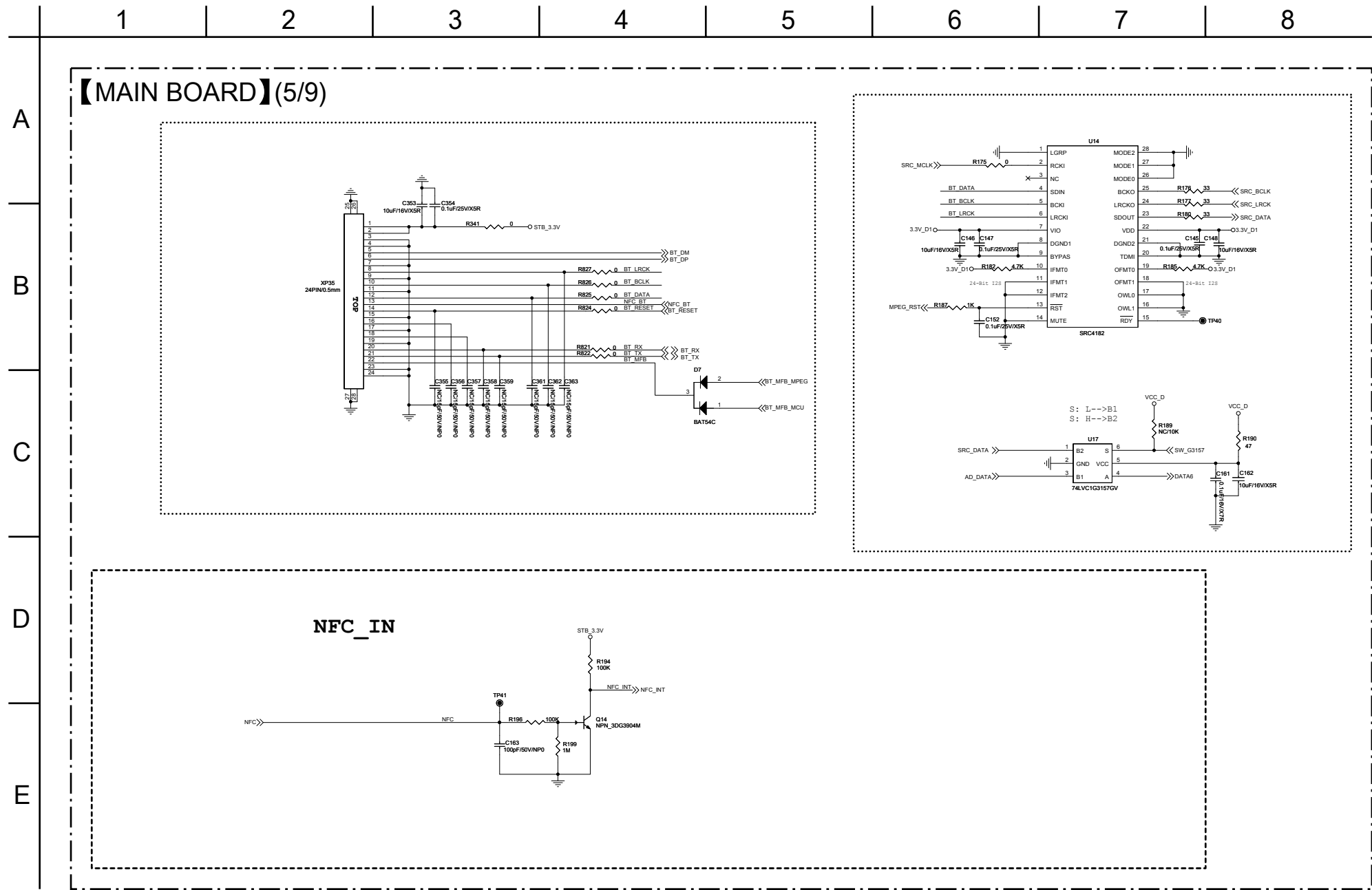
5-5. SCHEMATIC DIAGRAM - MAIN Board (2/9) -



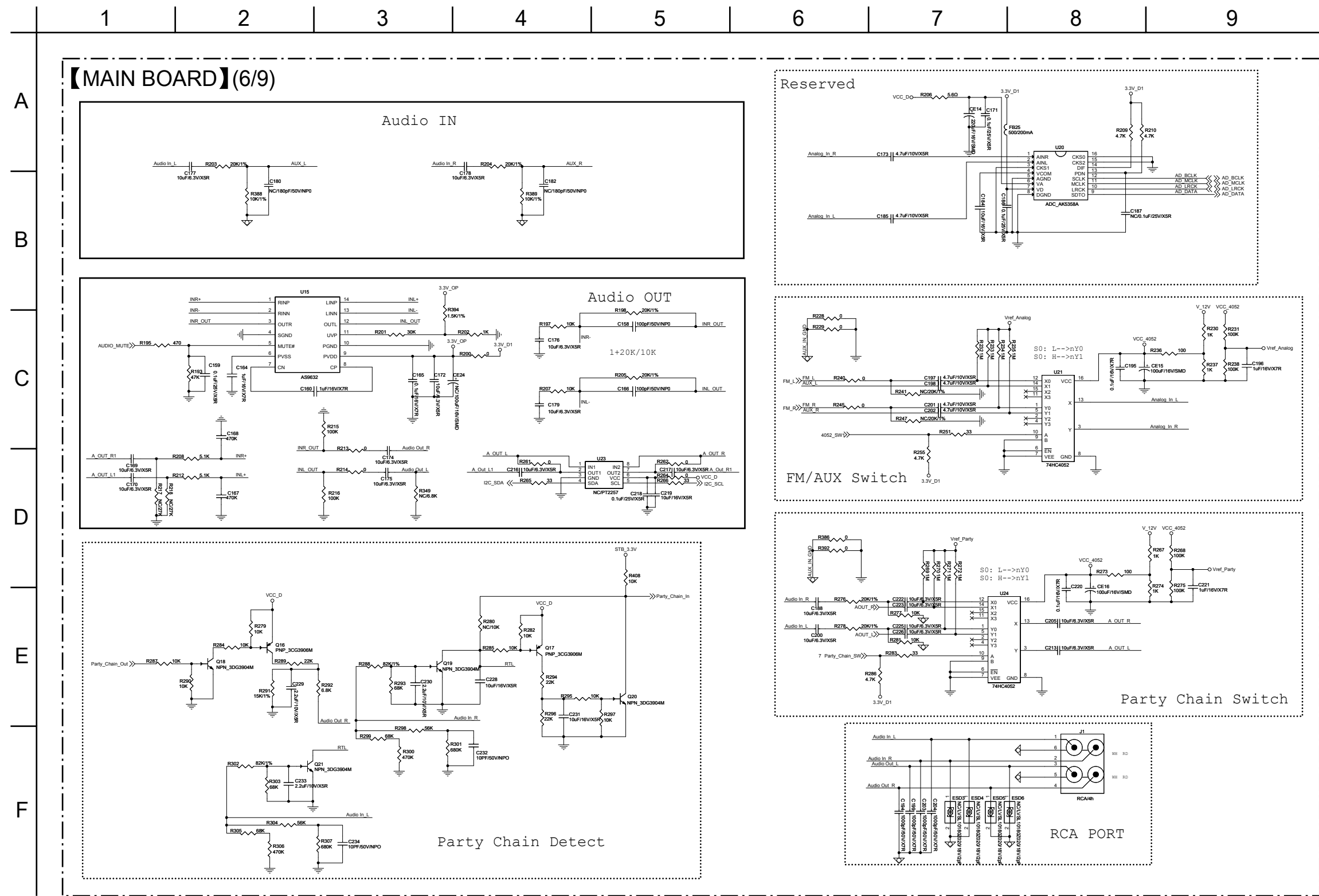
5-7. SCHEMATIC DIAGRAM - MAIN Board (4/9) - • See page 42 for IC Block Diagrams.



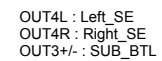
5-8. SCHEMATIC DIAGRAM - MAIN Board (5/9) - • See page 42 for IC Block Diagrams.



5-9. SCHEMATIC DIAGRAM - MAIN Board (6/9) -



32



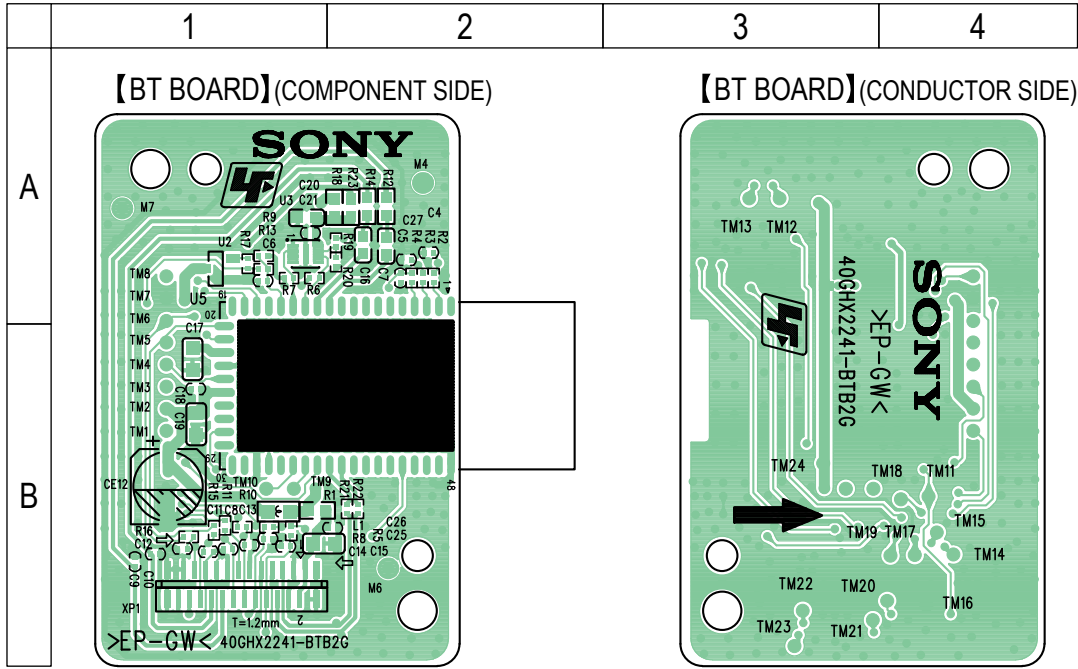
33

33

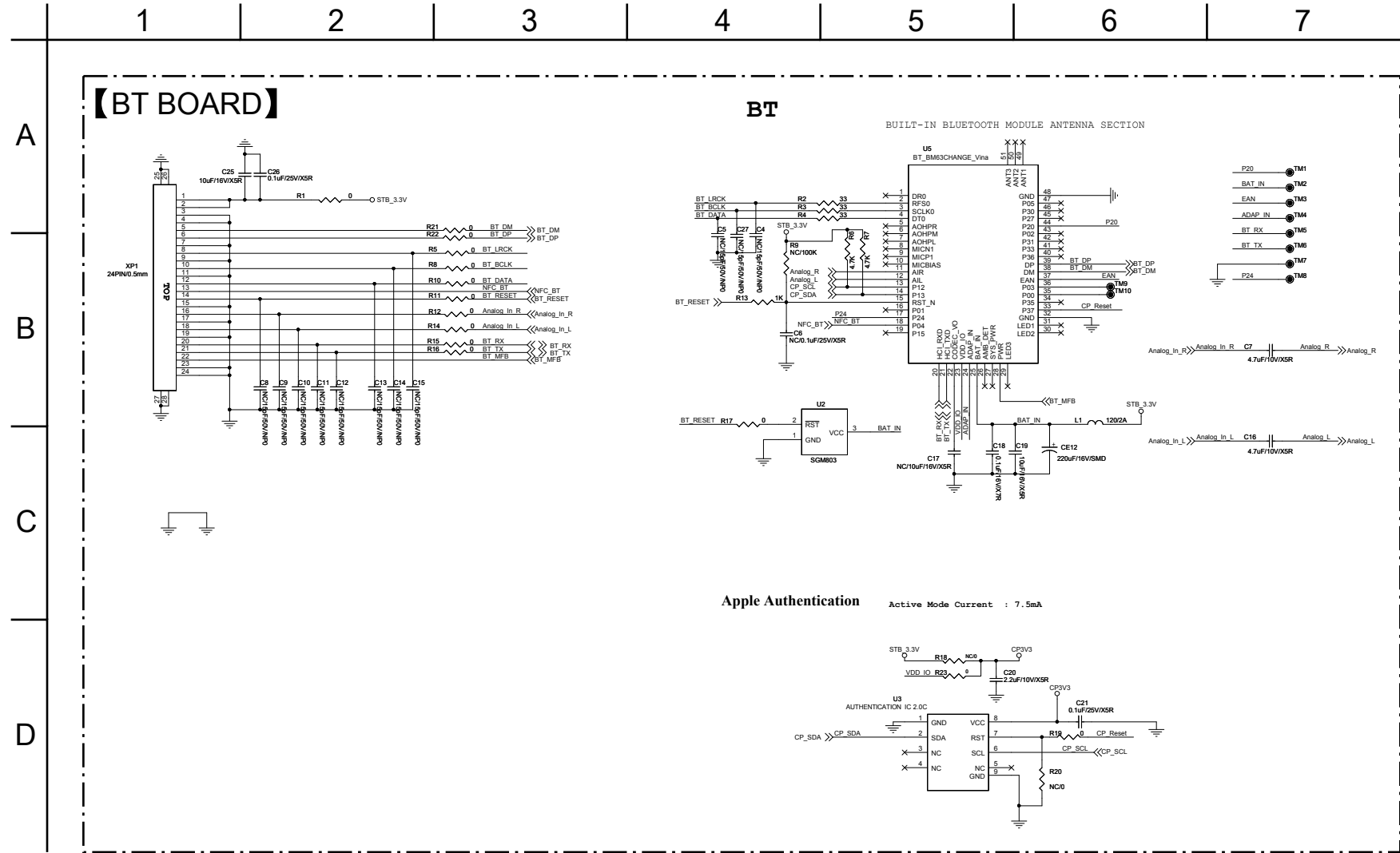
34 34



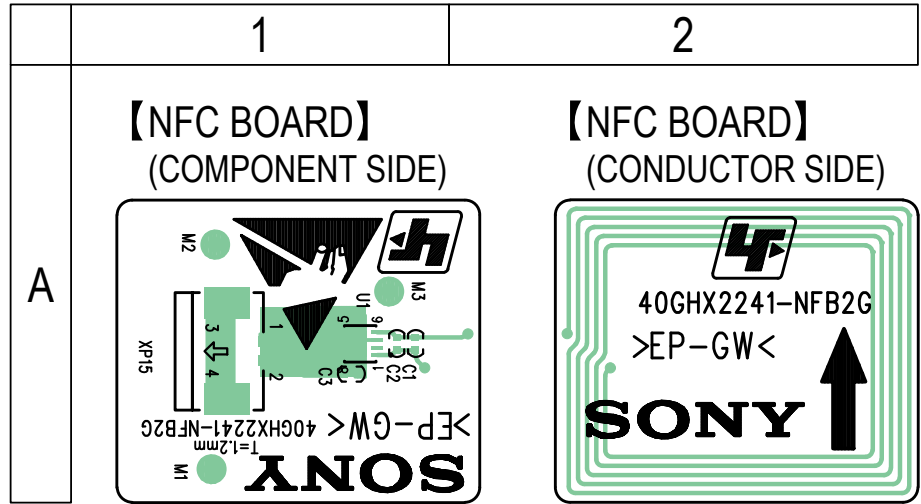
5-13. PRINTED WIRING BOARD - BT Board - • See page 24 for Circuit Boards Location. •  : Uses unleaded solder.



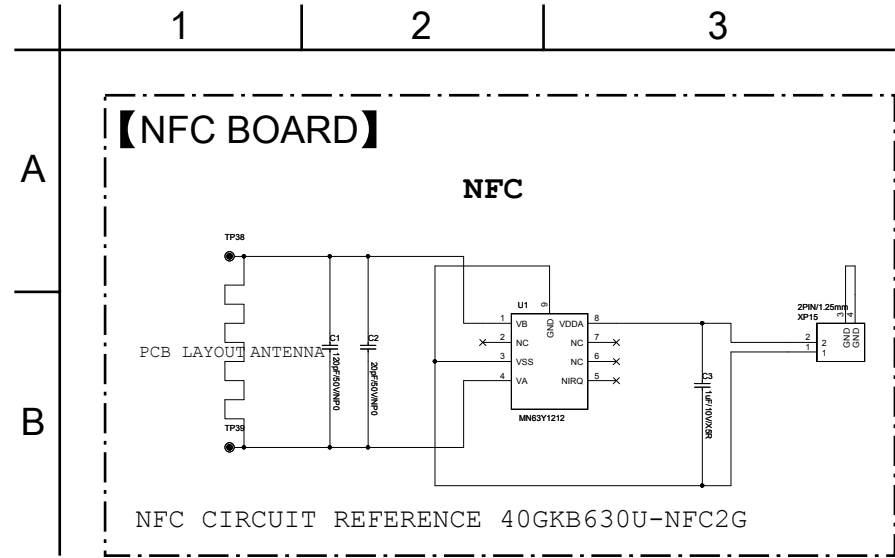
5-14. SCHEMATIC DIAGRAM - BT Board -



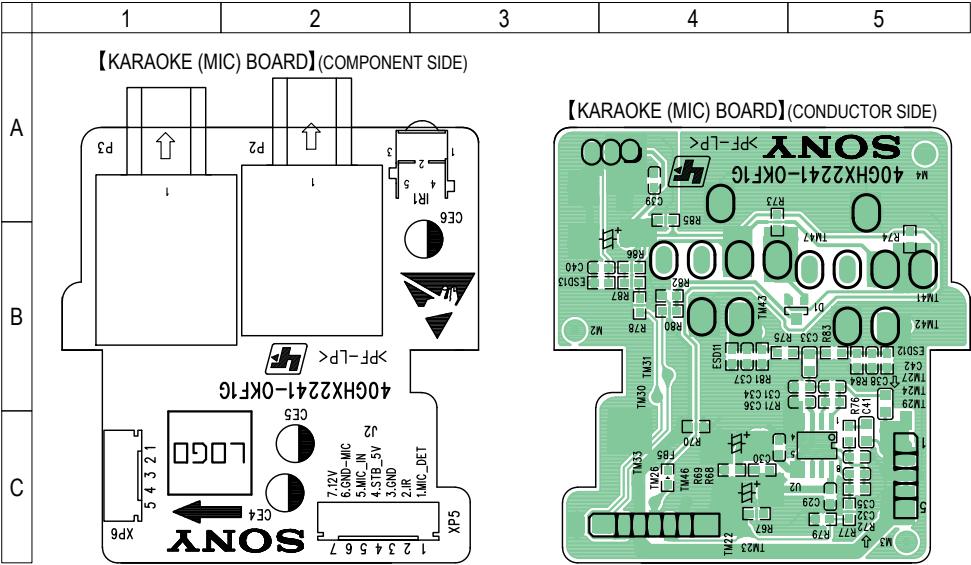
5-15. PRINTED WIRING BOARD - NFC Board -
• See page 24 for Circuit Boards Location. •  : Uses unleaded solder.



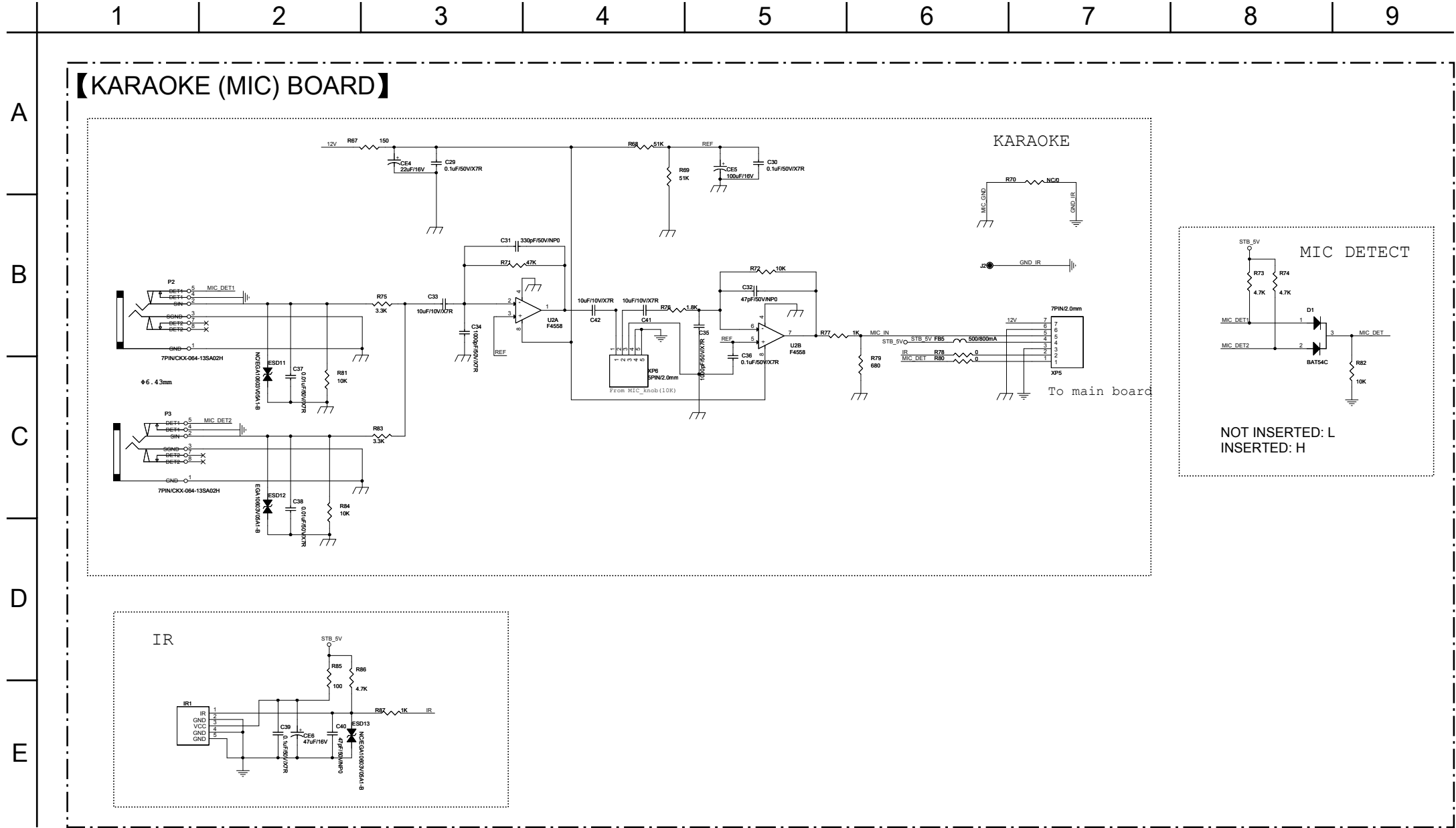
5-16. SCHEMATIC DIAGRAM - NFC Board -



5-17. PRINTED WIRING BOARD - KARAOKE (MIC) Board - • See page 24 for Circuit Boards Location. •  : Uses unleaded solder.

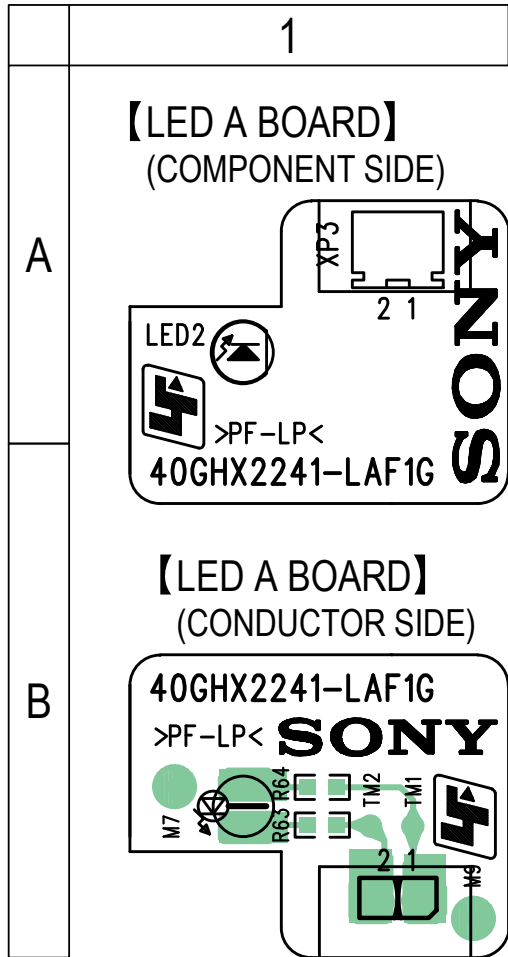


5-18. SCHEMATIC DIAGRAM - KARAOKE (MIC) Board -

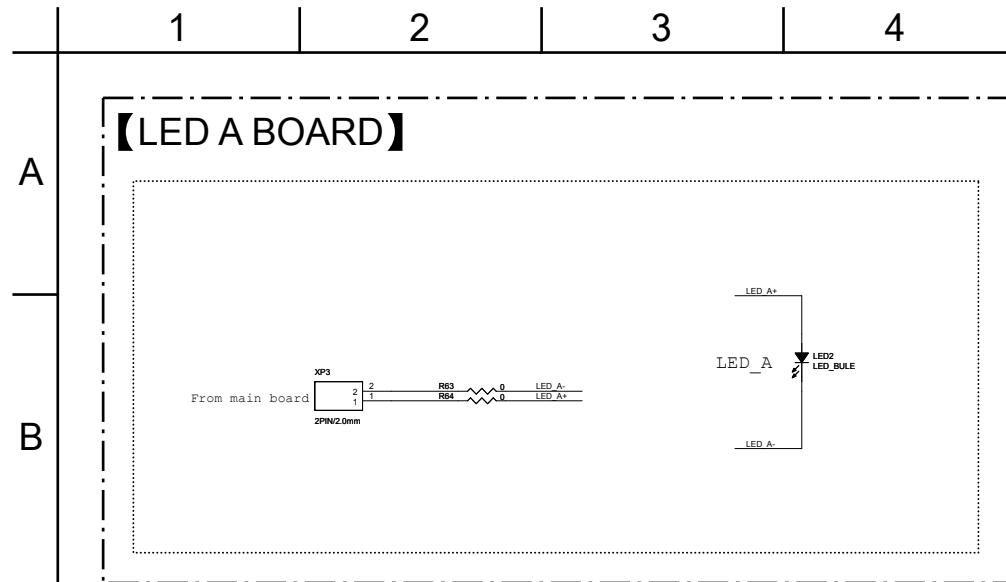


5-19. PRINTED WIRING BOARD - LED A Board -

• See page 24 for Circuit Boards Location. •  : Uses unleaded solder.

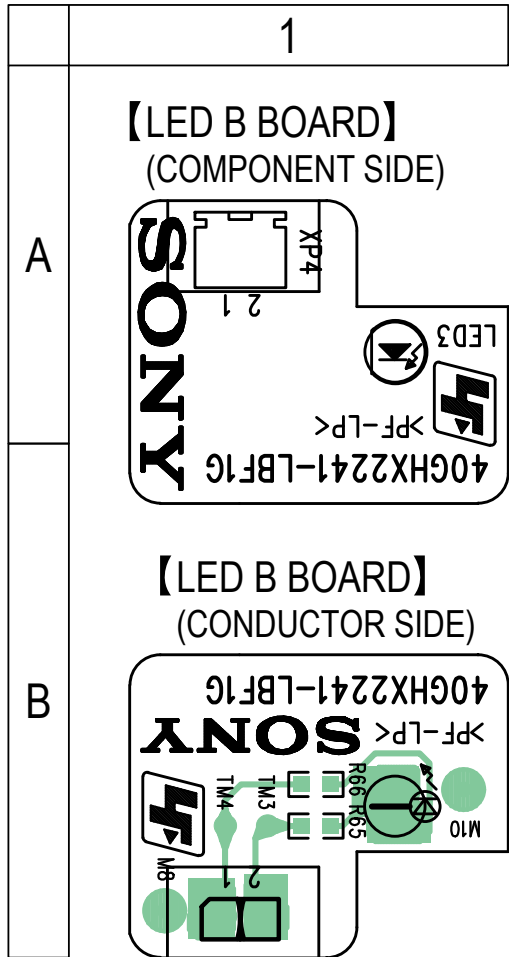


5-20. SCHEMATIC DIAGRAM - LED A Board -

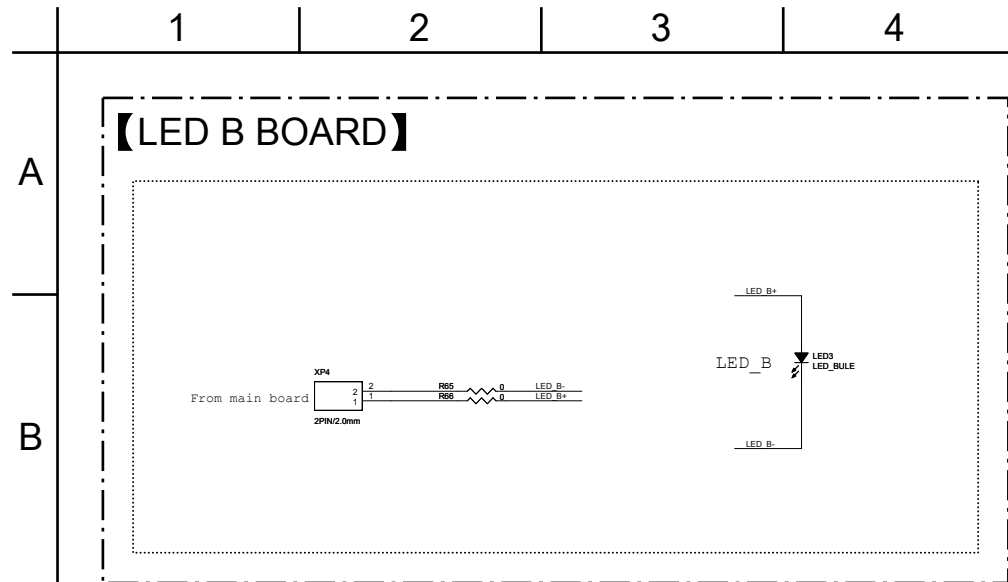


5-21. PRINTED WIRING BOARD - LED B Board -

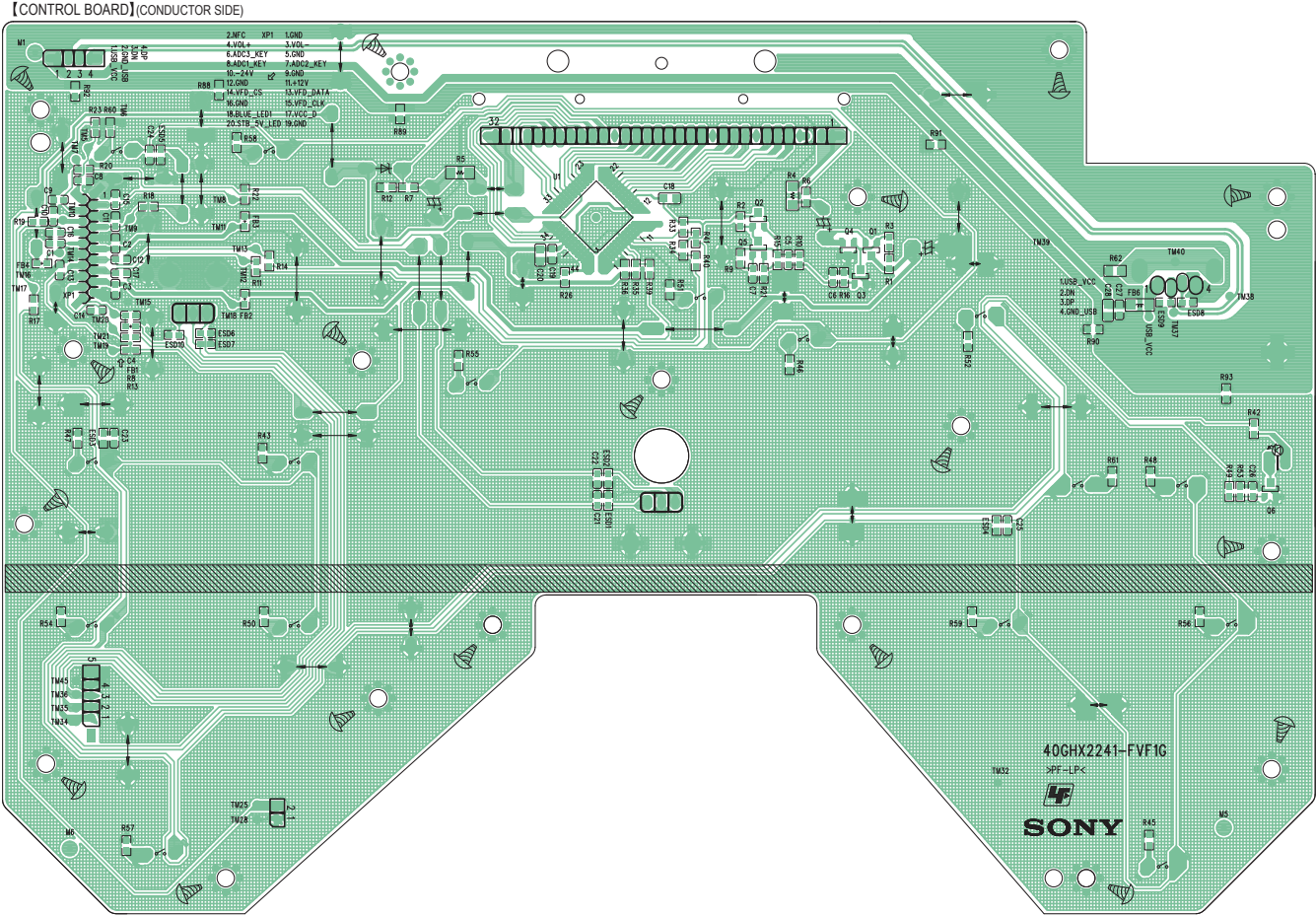
• See page 24 for Circuit Boards Location. •  : Uses unleaded solder.



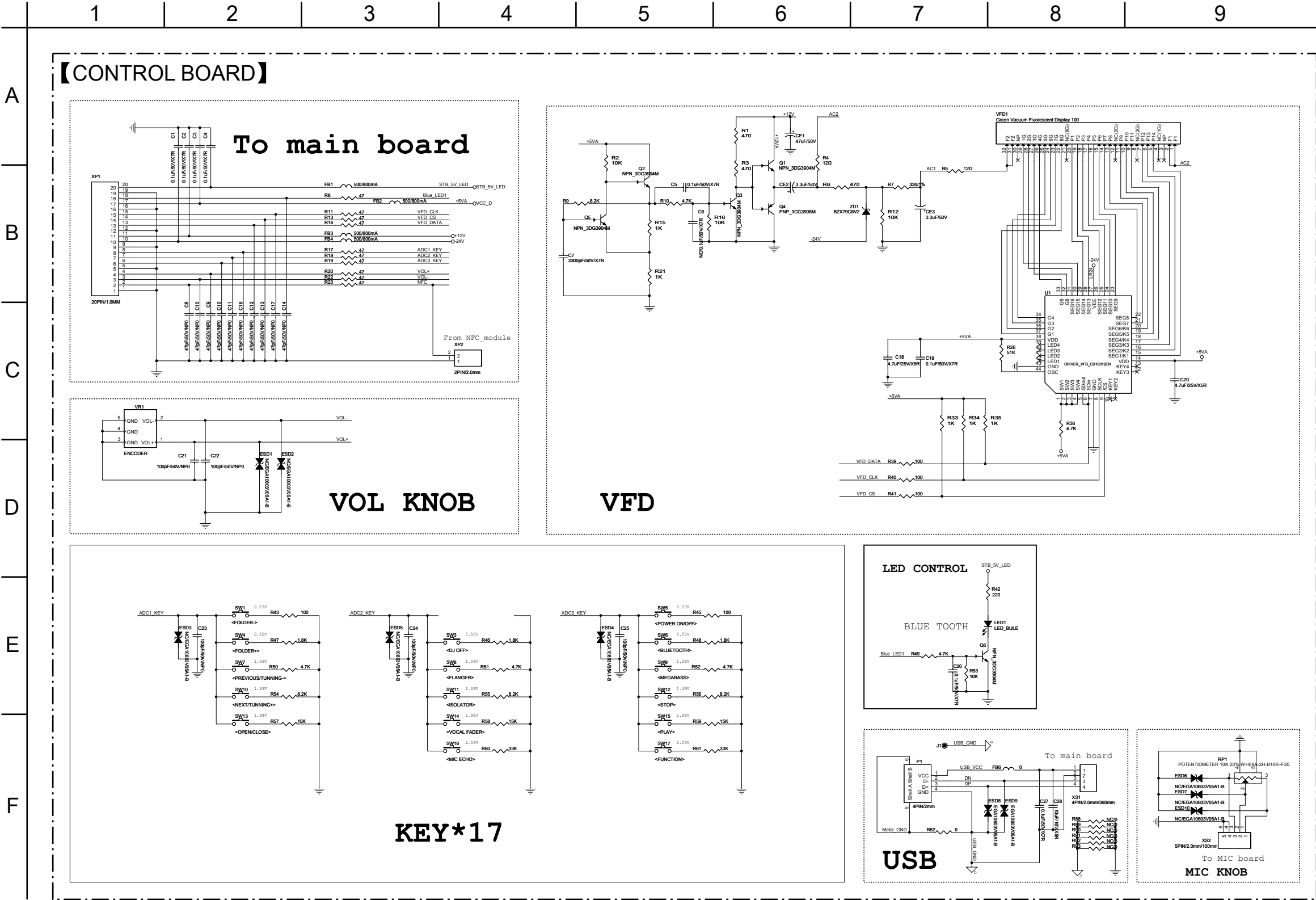
5-22. SCHEMATIC DIAGRAM - LED B Board -



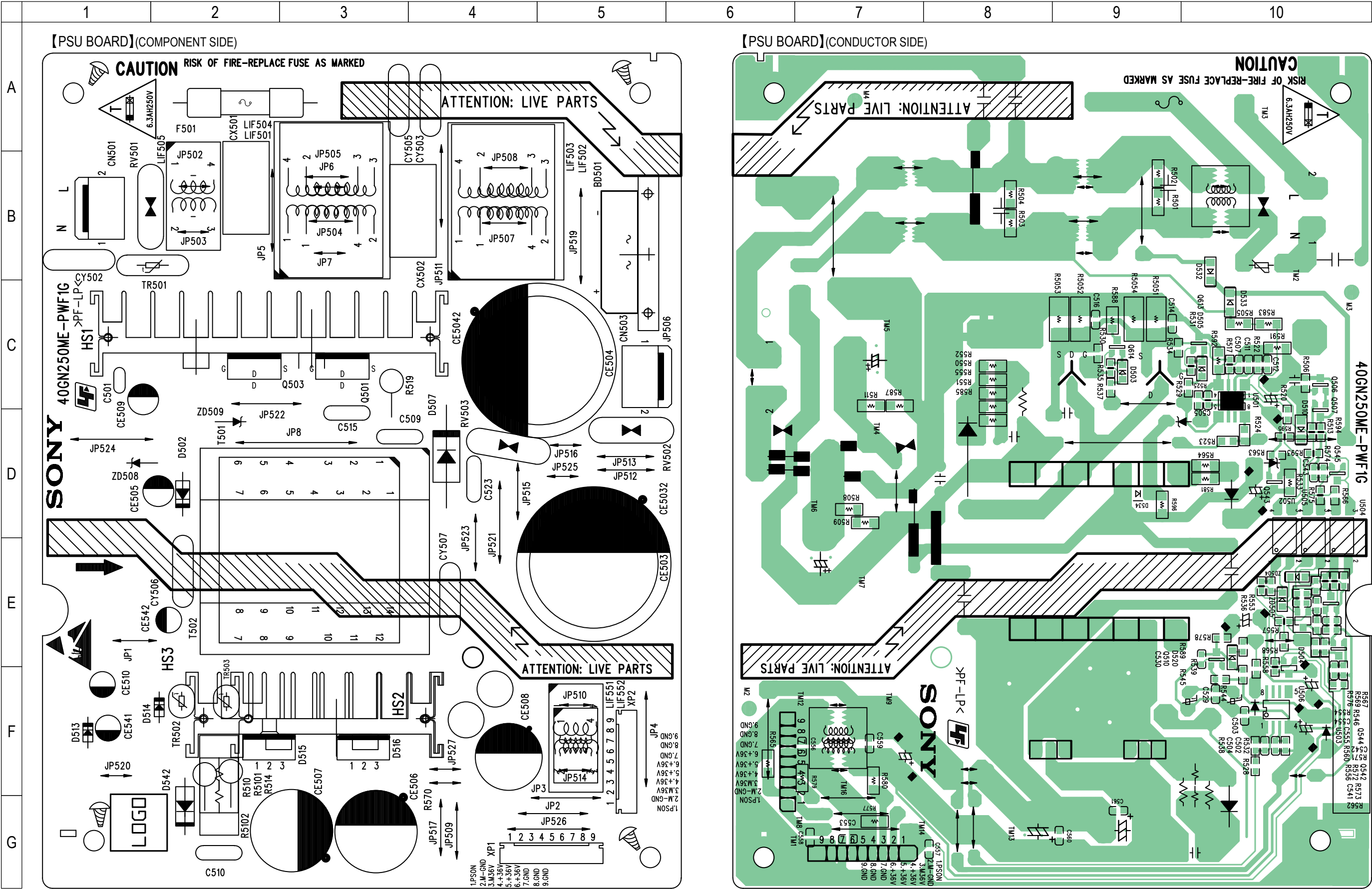
4 : Uses unleaded solder.



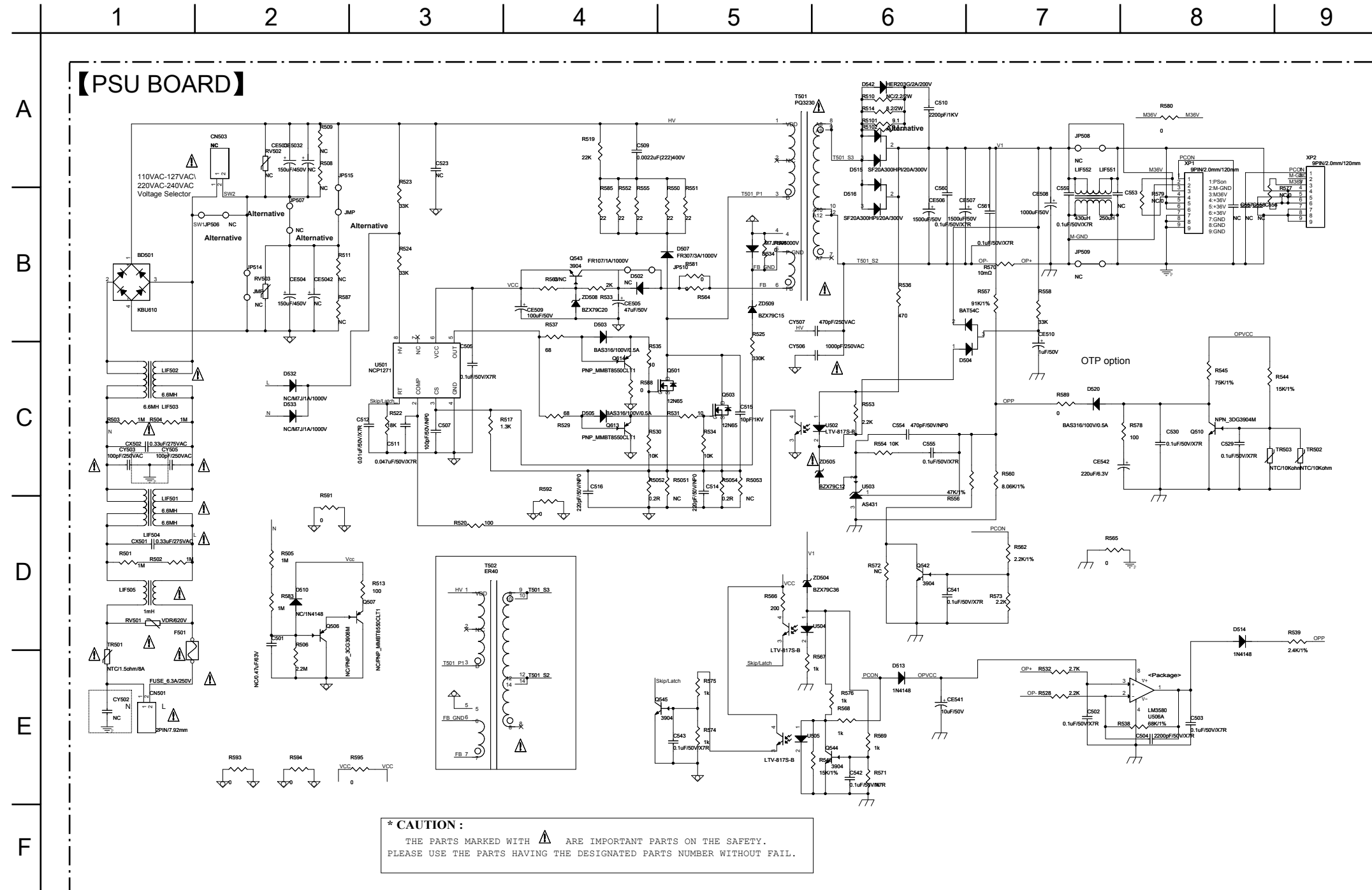
5-24. SCHEMATIC DIAGRAM - CONTROL Board -



5-25. PRINTED WIRING BOARD - PSU Board - • See page 24 for Circuit Boards Location. •  : Uses unleaded solder.

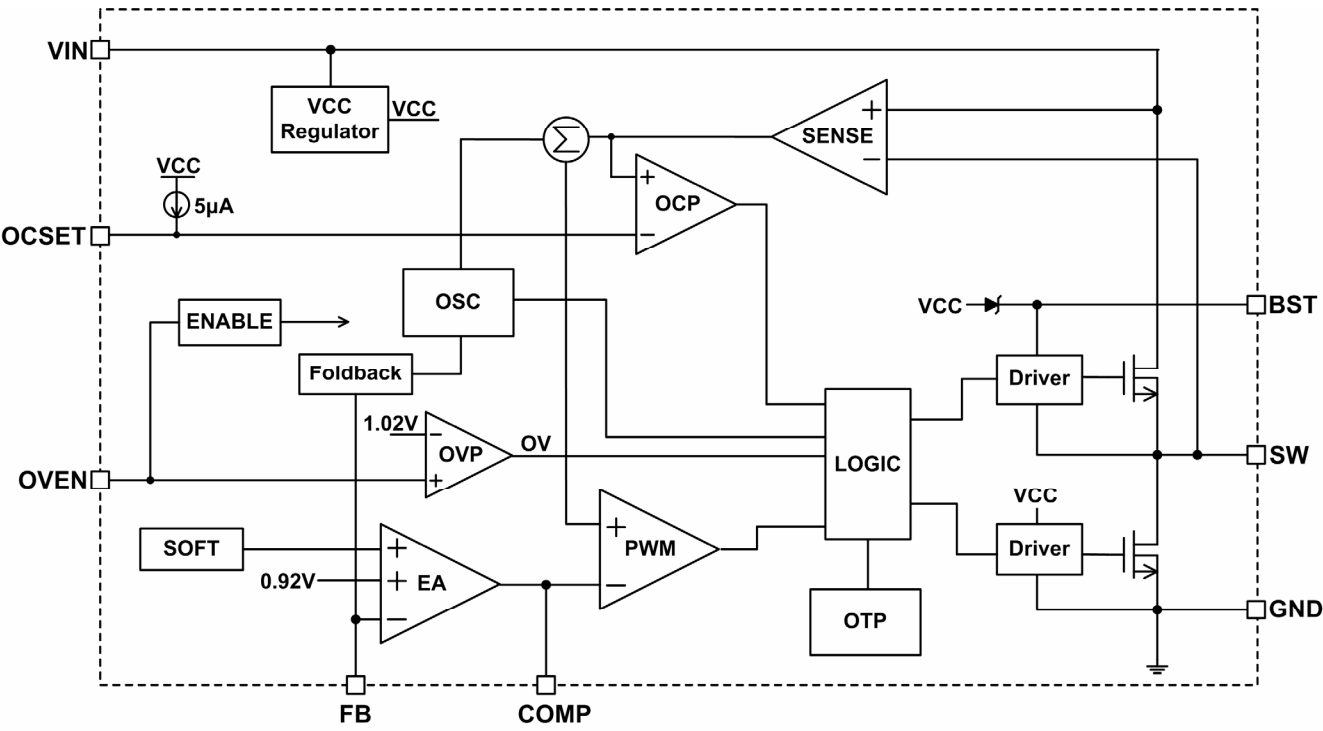


5-26. SCHEMATIC DIAGRAM - PSU Board -

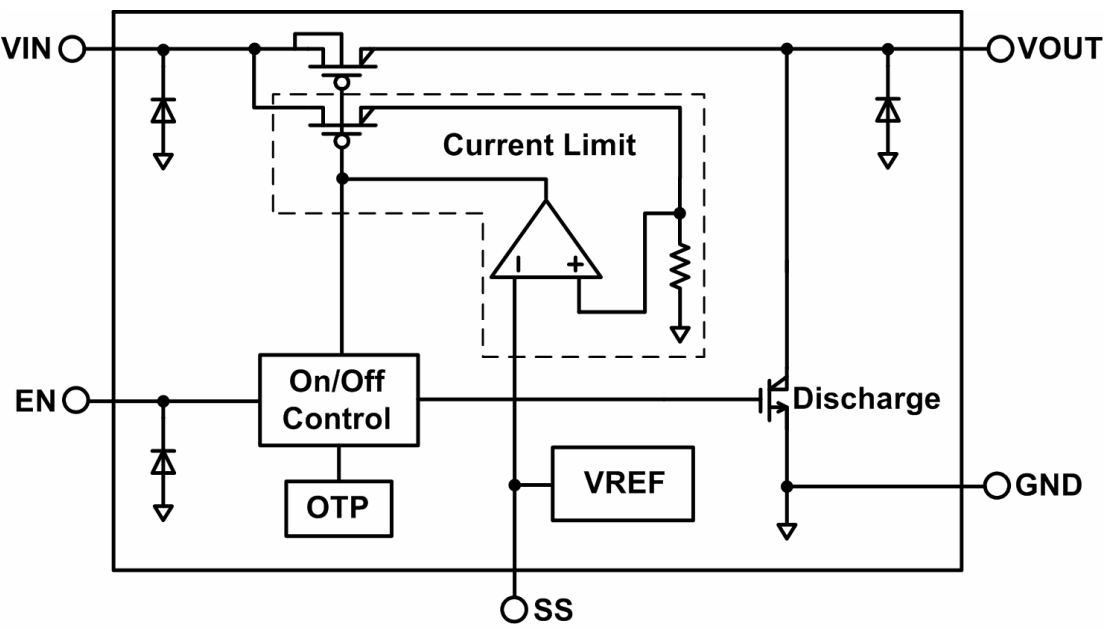


• IC Block Diagrams

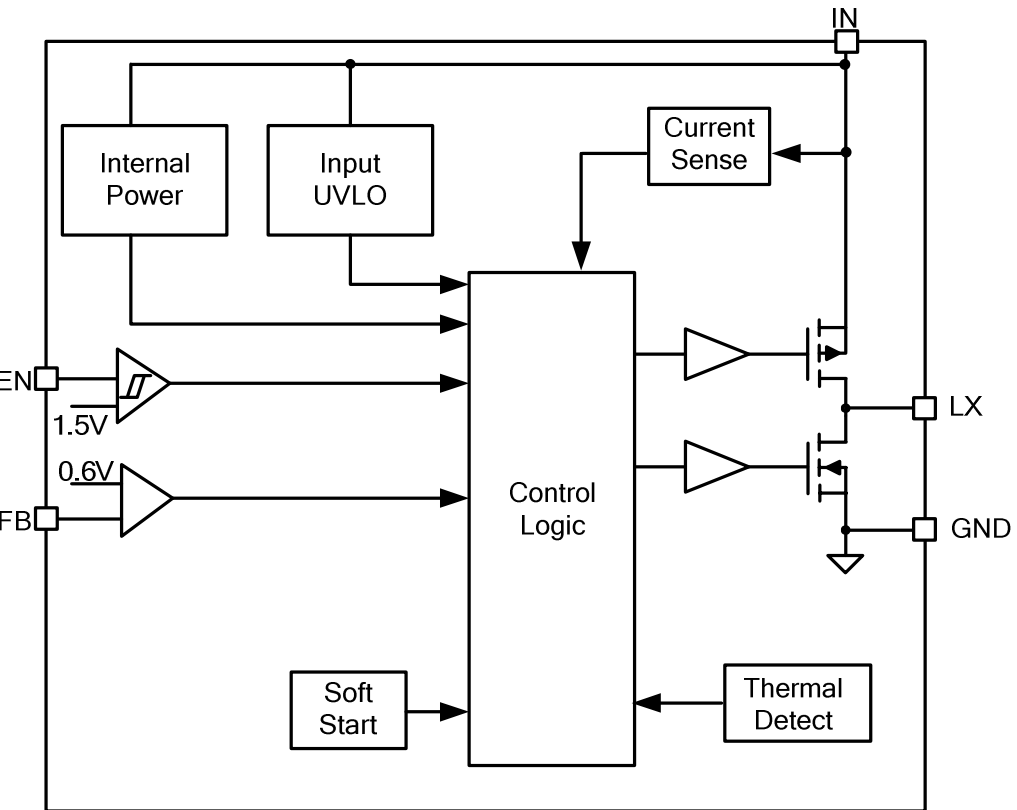
– MAIN Board –
U1 EUP3490



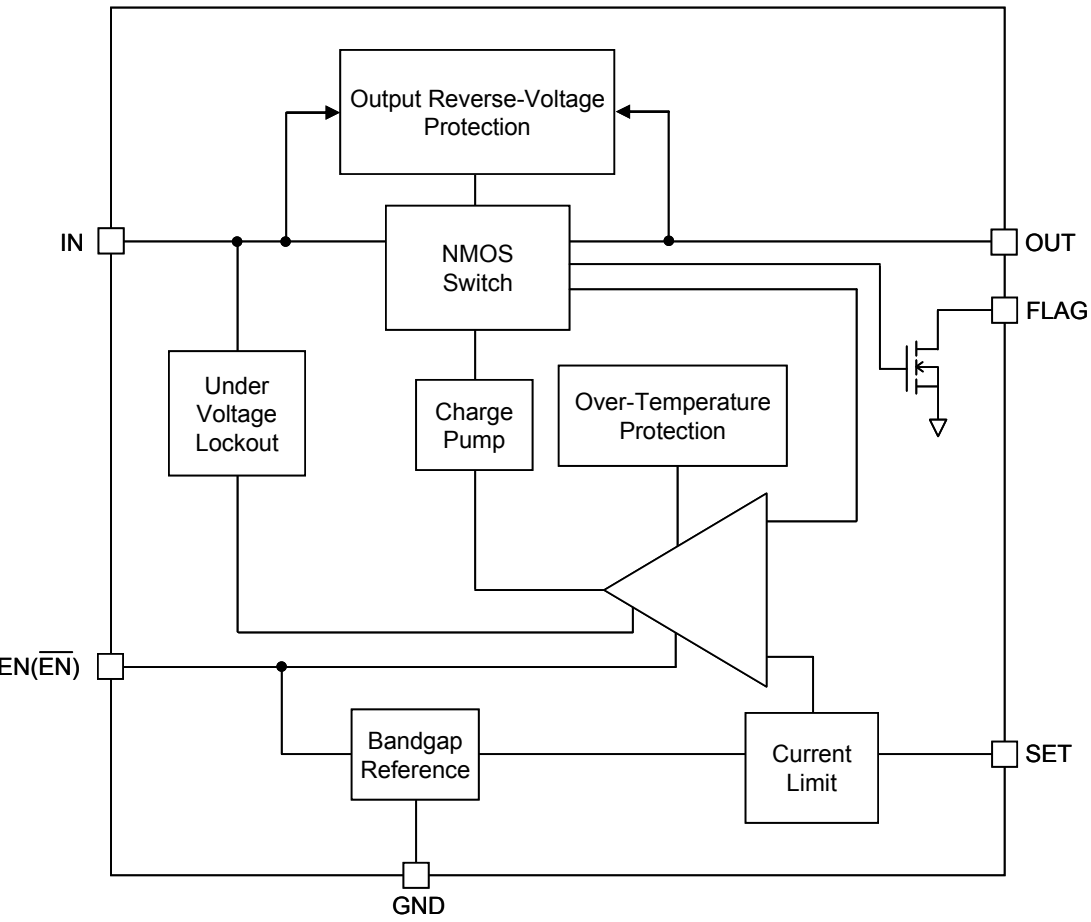
U2 EUP3504



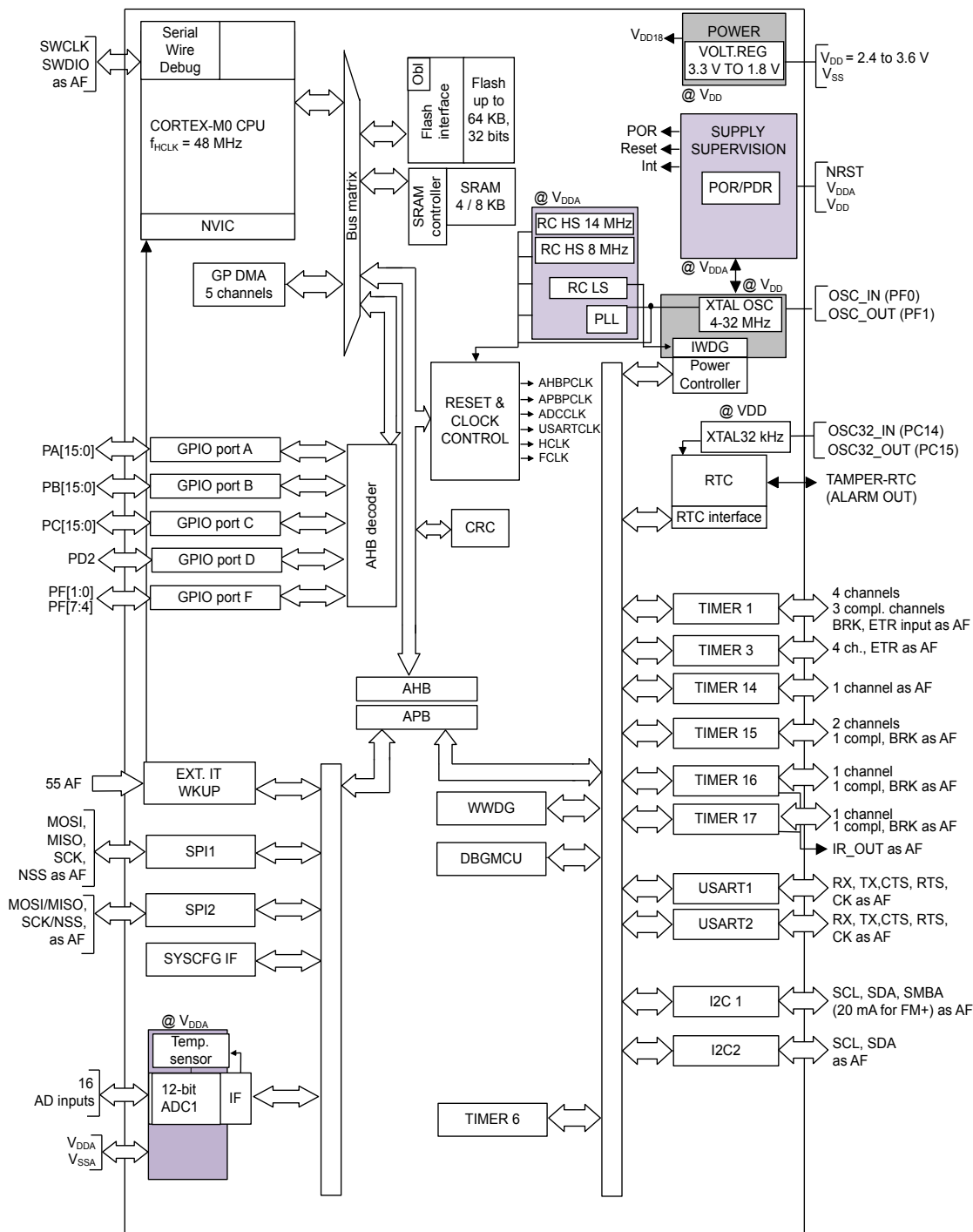
U4 SY8089A



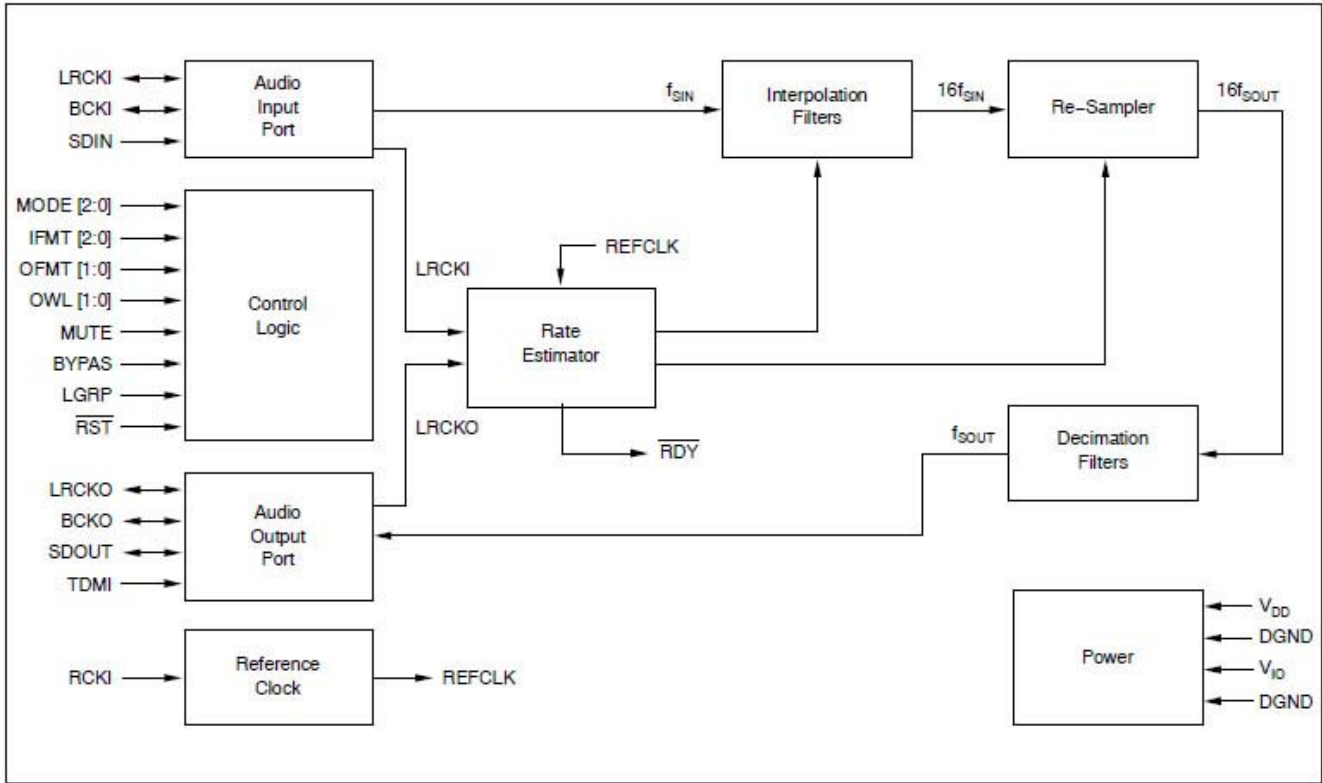
U10 G527



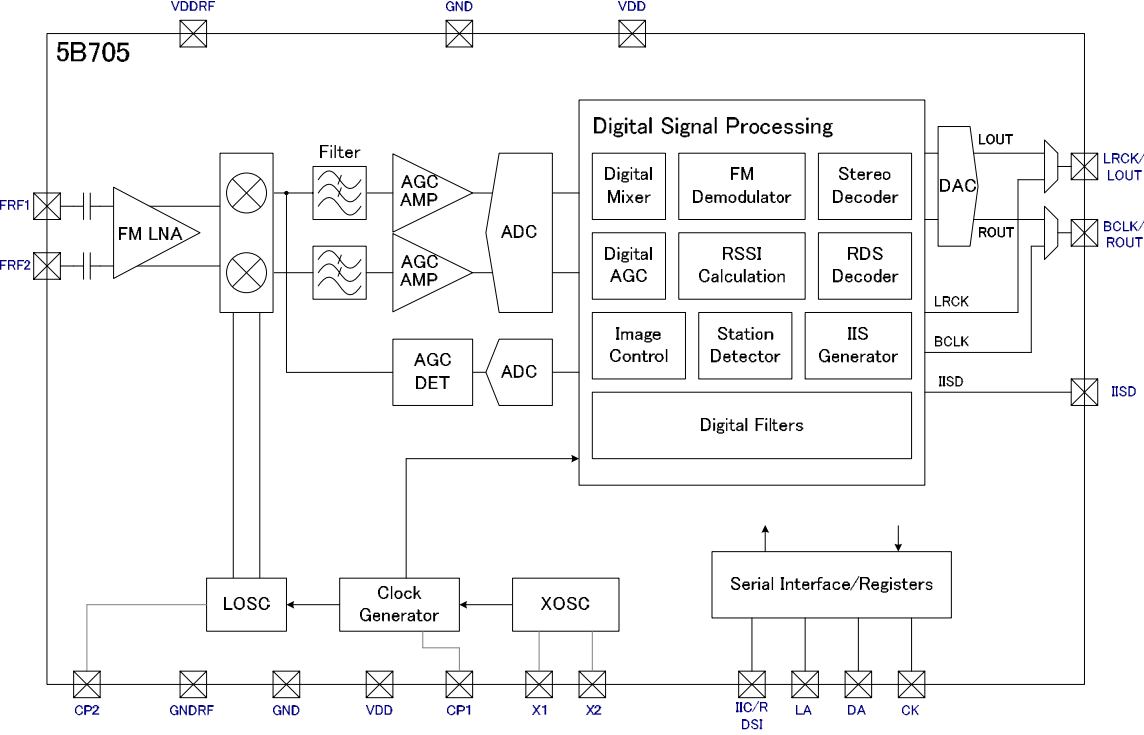
U13 STM32F030R8T6



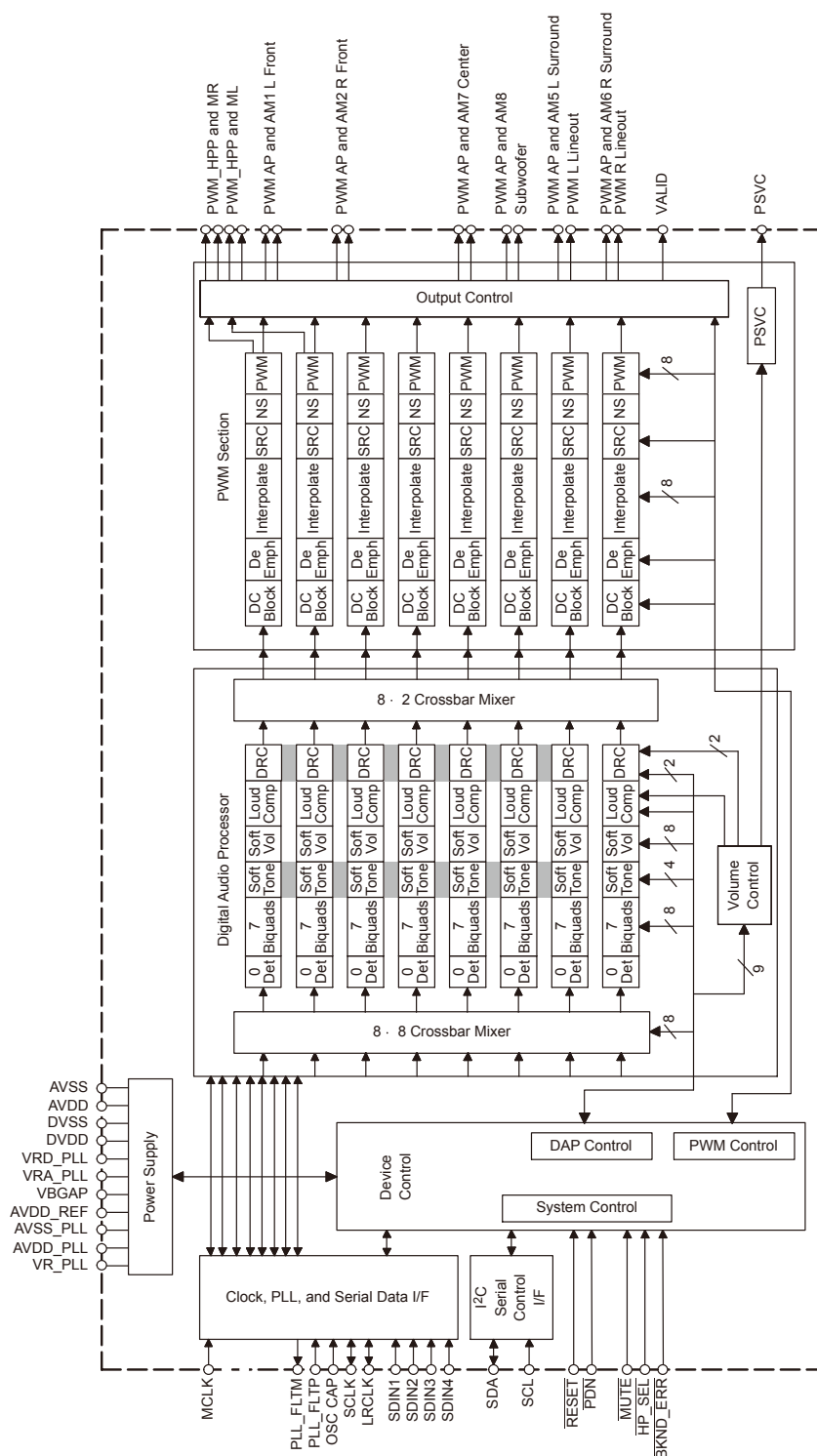
U14 SRC4182



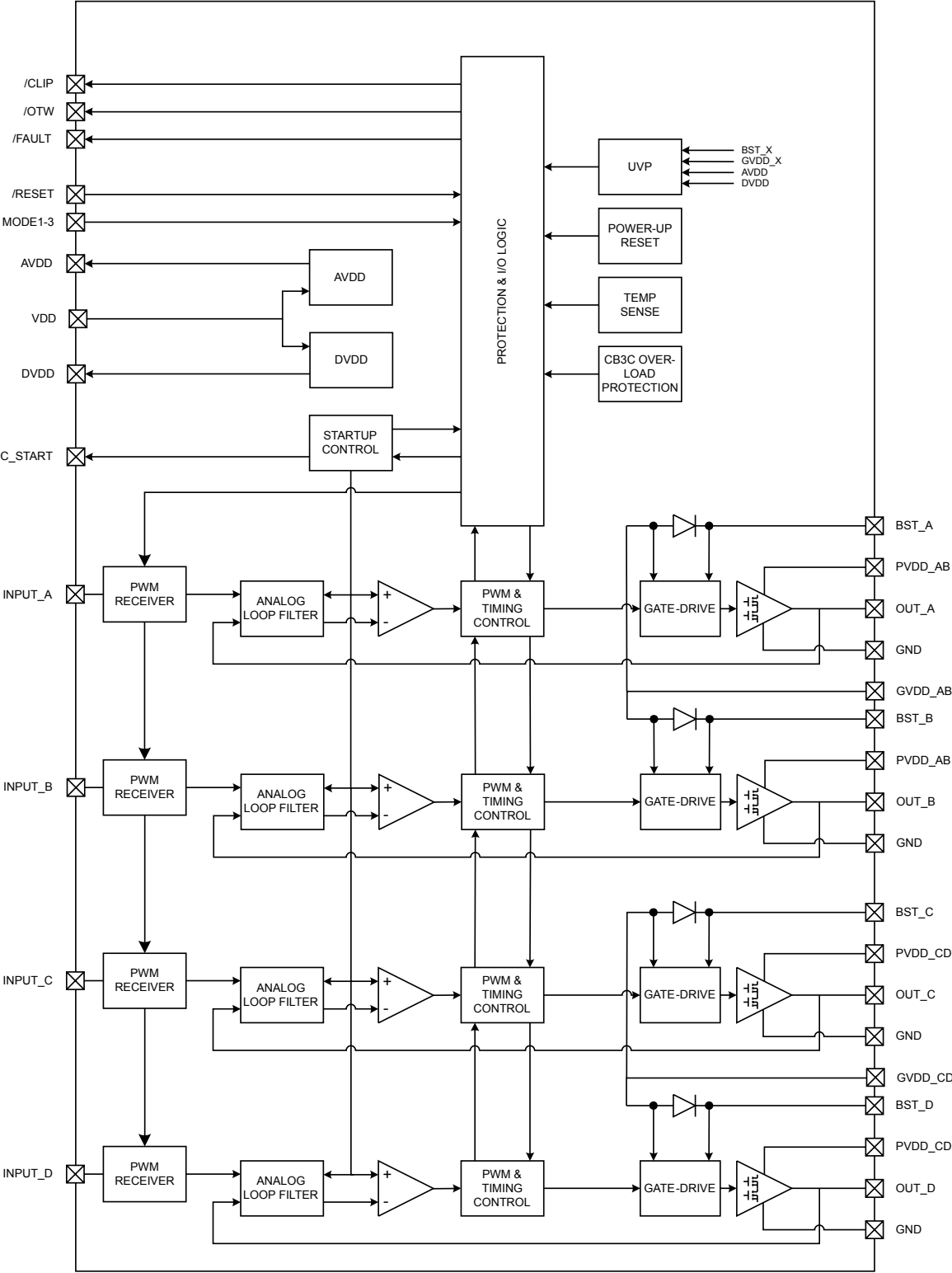
U25 RZ5B705



U28 TAS5534



U29 TAS5624A



SECTION 6 EXPLODED VIEWS

Note:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- The mechanical parts with no reference number in the exploded views are not supplied.
- Color Indication of Appearance Parts Example:

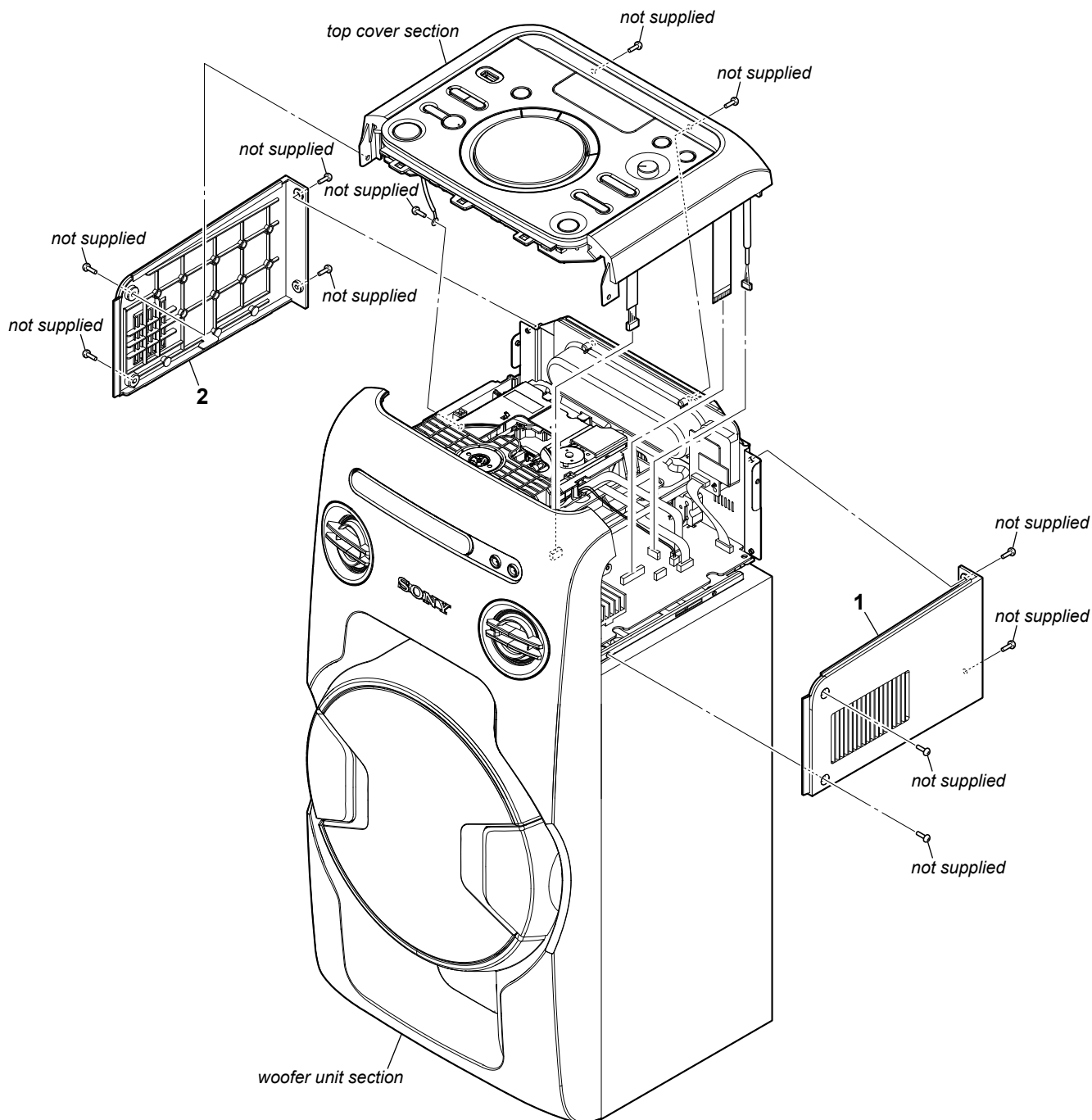
Knob, Balance (WHITE) . . . (RED)

↑ ↑
Parts Color Cabinet's Color

The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque $\triangle$ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

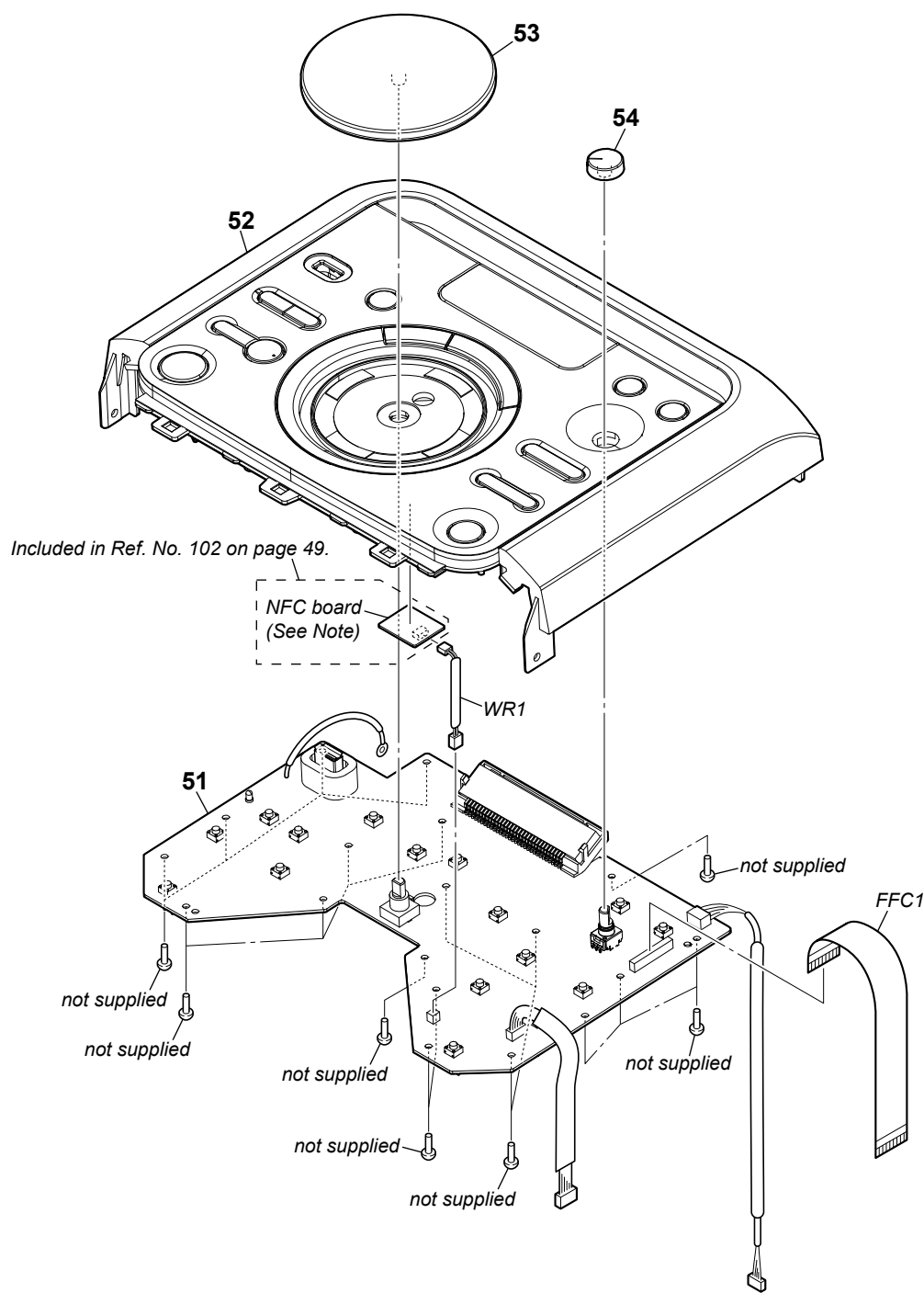
6-1. SIDE COVER SECTION



Ref. No.	Part No.	Description	Remark
1	9-885-209-16	LEFT SIDE COVER (UC2) + TAPE	

Ref. No.	Part No.	Description	Remark
2	9-885-209-14	RIGHT SIDE COVER (UC2) + TAPE	

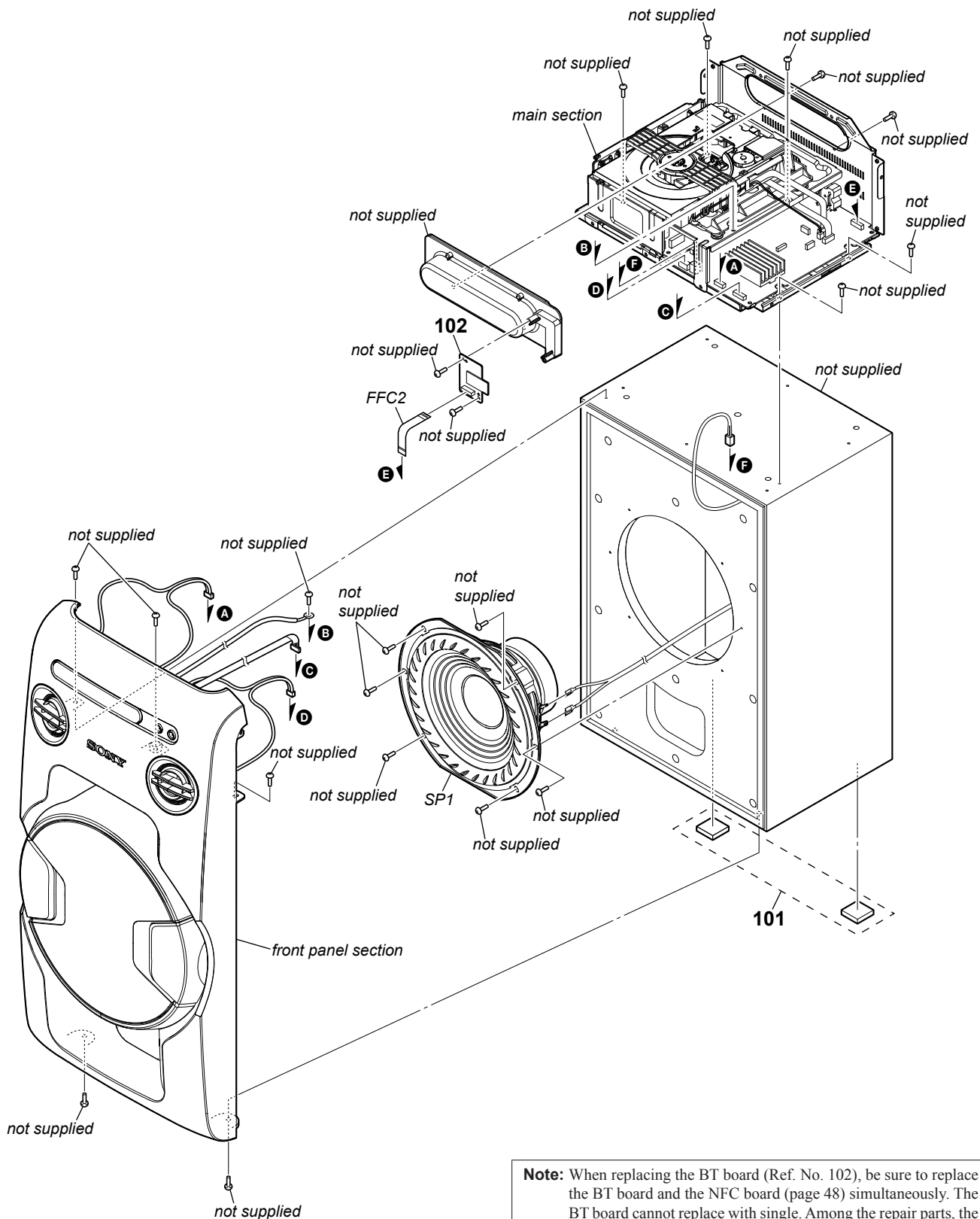
6-2. TOP COVER SECTION



Note: When replacing the NFC board, be sure to replace the BT board (Ref. No. 102; page 49) and the NFC board simultaneously. The NFC board cannot replace with single. Among the repair parts, the BT board and the NFC board is supplied as one unit.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	9-885-208-93	CONTROL BOARD, COMPLETE		FFC1	9-885-208-94	FFC (TO MAIN BOARD)	
52	9-885-209-04	TOP COVER ASSY		WR1	9-885-208-95	CABLE (TO NFC)	
53	9-885-209-02	MAIN VOLUME KNOB (VOLUME/DJ CONTROL)					
54	9-885-209-03	MIC VOLUME KNOB (MIC LEVEL)					

6-3. WOOFER UNIT SECTION



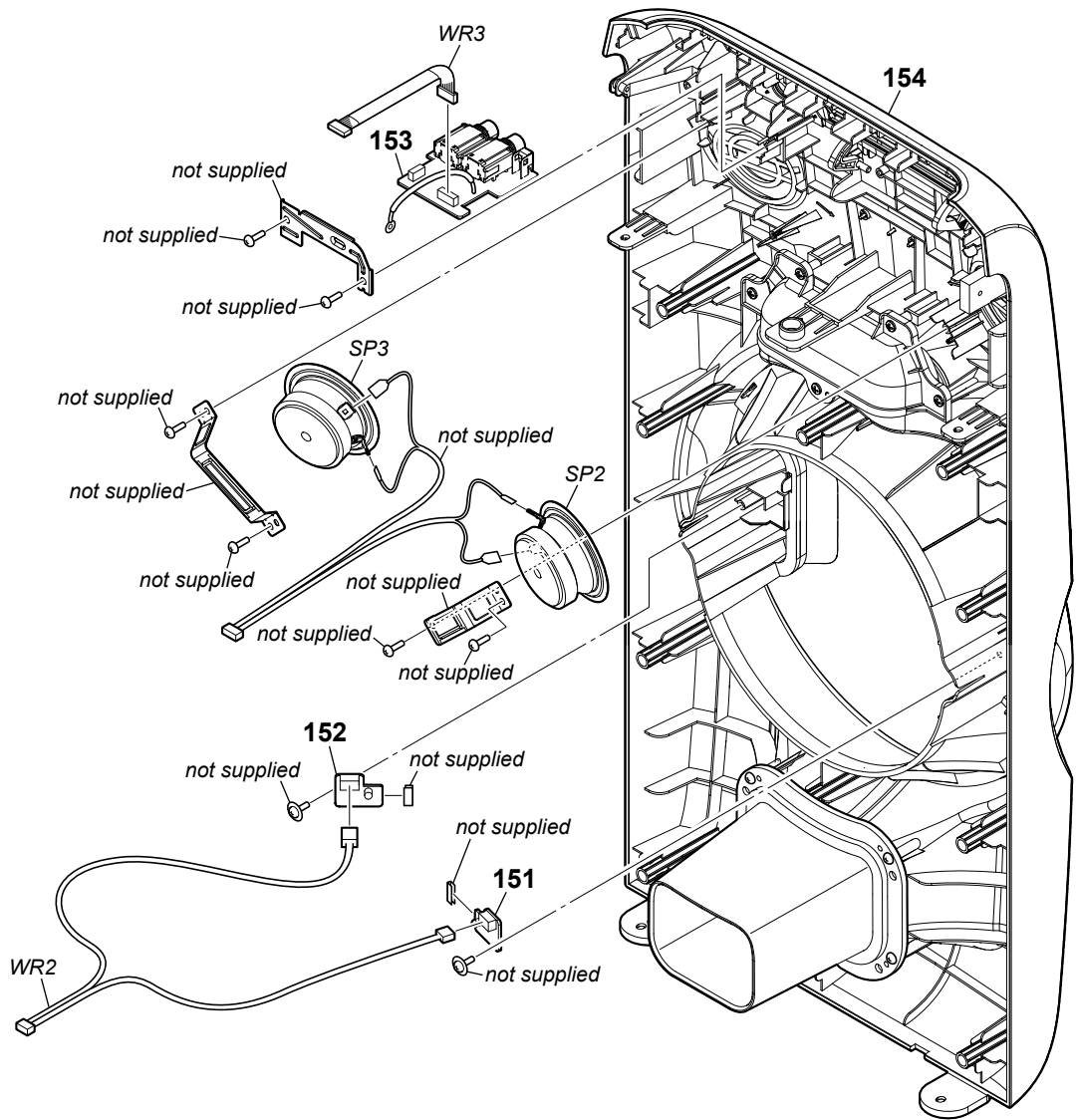
Note: When replacing the BT board (Ref. No. 102), be sure to replace the BT board and the NFC board (page 48) simultaneously. The BT board cannot replace with single. Among the repair parts, the BT board and the NFC board is supplied as one unit.

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
101	9-885-209-19	FOOT (REAR SIDE) (2 pieces, 1 set)	
102	9-885-208-82	BT BOARD, COMPLETE	
		(Including NFC board: page 48) (See Note)	

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
FFC2	9-885-208-88	FFC (TO BT BOARD)	
SP1	9-885-209-13	WOOFER UNIT (200 mm) (Woofer)	

6-4. FRONT PANEL SECTION

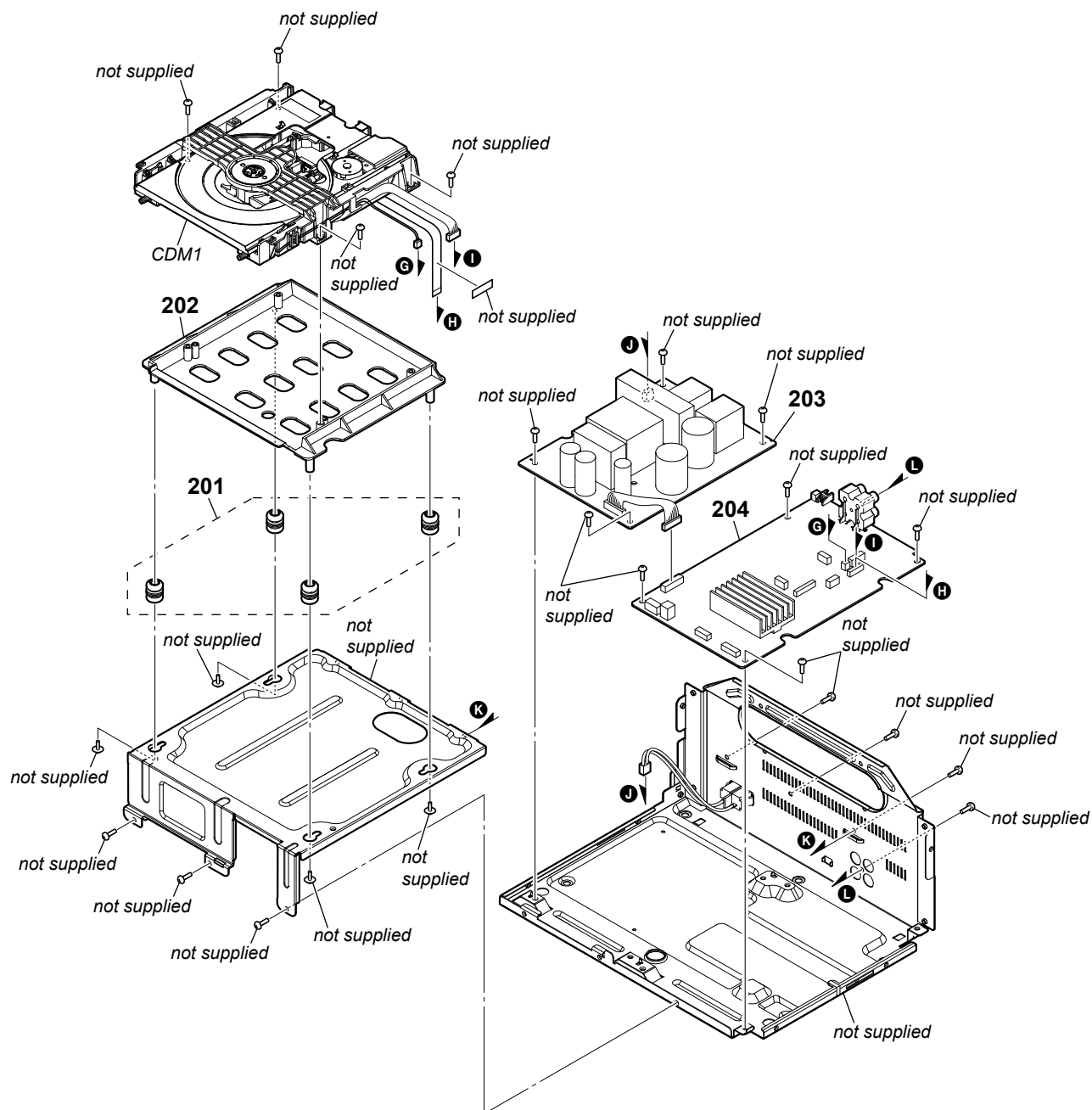
- Rear side view



Ref. No.	Part No.	Description	Remark
151	9-885-208-99	LED A BOARD, COMPLETE	
152	9-885-209-00	LED B BOARD, COMPLETE	
153	9-885-208-92	KARAOKE (MIC) BOARD, COMPLETE	
154	9-885-209-10	FRONT PANEL ASSY	
SP2	9-885-209-12	TWEETER UNIT (50 mm) (Tweeter: L-ch)	

Ref. No.	Part No.	Description	Remark
SP3	9-885-209-12	TWEETER UNIT (50 mm) (Tweeter: R-ch)	
WR2	9-885-209-01	CABLE (BETWEEN TWO LED BOARDS)	
WR3	9-885-208-87	WIRE (TO MIC BOARD)	

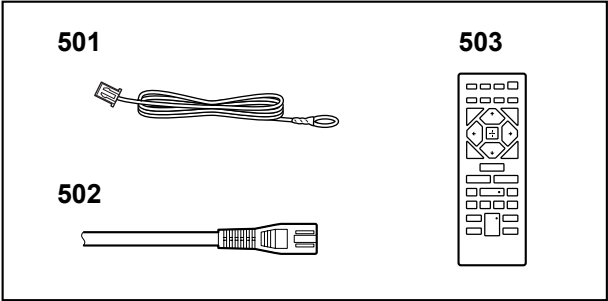
6-5. MAIN SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	9-885-209-06	DAMPER (4 pieces, 1 set)		204	9-885-208-89	MAIN BOARD, COMPLETE	
202	9-885-209-07	LOADER DAMPER BRACKET		△ CDM1	9-885-209-08	LOADER (TDL-5W)	
203	9-885-208-83	PSU BOARD, COMPLETE				(Including Optical pick-up, Cable, FFC)	

SECTION 7
ACCESSORIES

Ref. No.	Part No.	Description	Remark
	4-582-493-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH)	
501	9-885-189-79	FM ANTENNA (FM lead antenna)	
▲ 502	9-885-209-20	AC CORD (AC power cord)	
503	1-493-171-11	REMOTE COMMANDER (RMT-AM220U)	(Remote control)



The components identified by mark ▲ or dotted line with mark ▲ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ▲ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

MEMO

REVISION HISTORY

[illegible]