HT-A9

SA-FLA9/FRA9/RLA9/RRA9/TMR-A9WT

SERVICE MANUAL

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Note:
Make sure that the your PC used for repair is not infected with a computer virus before using it.

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Sony Corporation

SONY®

HT-A9

SA-FLA9/FRA9/RLA9/RRA9/TMR-A9WT

SERVICE MANUAL

US Model

Photo: SA-RLA9

Photo: SA-FLA9

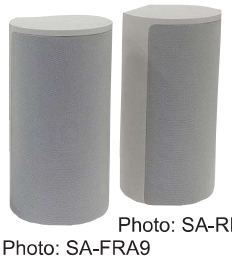

Photo: SA-FRA9

Photo: SA-RRA9

Photo: TMR-A9WT

- All of the units included in the HT-A9 (SA-FLA9/FRA9/RLA9/RRA9/TMR-A9WT/Remote control) are required to confirming operation of this unit. Also, if it is used an optional subwoofer, all optional equipment is required in addition to the HT-A9.
  Check in advance that the full set of the all units and accessories are prepared.

COMPONENT MODEL NAME (HT-A9)

Active Speaker (Front Left)	SA-FLA9
Active Speaker (Front Right)	SA-FRA9
Active Speaker (Rear Left)	SA-RLA9
Active Speaker (Rear Right)	SA-RRA9
Control Box	TMR-A9WT

SPECIFICATIONS

Speakers (SA-FLA9/SA-FRA9/SA-RLA9/SA-RRA9)

The following descriptions are the specifications per speaker.

Amplifier section
POWER OUTPUT AND TOTAL HARMONIC DISTORTION:
(FTC)
Top speaker:
With 6 ohms loads, both channels driven, from 200 - 10k Hz; rated 30 W per channel minimum RMS power, with no more than 1% total harmonic distortion from 250 mW to rated output.
Tweeter:
With 6 ohms loads, both channels driven, from 5,000 - 10k Hz; rated 20 W per channel minimum RMS power, with no more than 1% total harmonic distortion from 250 mW to rated output.
Woofer:
With 6 ohms loads, both channels driven, from 200 - 5,000 Hz; rated 30 W per channel minimum RMS power, with no more than 1% total harmonic distortion from 250 mW to rated output.

Front speaker section
Speaker system
2way speaker system bass reflex type
Woofer
70 mm × 82 mm (2 7/8 in × 3 1/4 in) cone type
Tweeter
19 mm (3/4 in) soft dome type

Top speaker section
Speaker system
Full range speaker system acoustic suspension type
Speaker
46 mm × 54 mm (1 13/16 in × 2 1/4 in) cone type

General
Power requirements
120 V AC, 60 Hz
Power consumption
On: 22 W
Stand by mode: 1 W or less
Turned off: 0.5 W or less
Dimensions* (approx.) (w/h/d)
160 mm × 313 mm × 147 mm (6 3/8 in × 12 3/8 in × 5 7/8 in)
* Not including projection portion
Mass (approx.)
2.7 kg (6 lb)

Control Box (TMR-A9WT)

Inputs
HDMI IN*
Outputs
HDMI OUT (TV ARC/eARC)*
S-CENTER OUT

* HDMI IN and HDMI OUT (TV ARC/eARC) jacks support HDCP2.2 and HDCP2.3 protocols. HDCP2.2 and HDCP2.3 are newly enhanced copyright protection technology that is used to protect content such as 4K movies.

HDMI Section
Connector
Type A (19pin)

USB section (For update use only)
(USB) port: Type A (For connecting USB memory)

LAN section
LAN(100) terminal
100BASE-TX Terminal

Wireless LAN section
Communication system
IEEE 802.11 a/b/g/n/ac
Frequency band
2.4 GHz, 5 GHz

BLUETOOTH section
Communication system
BLUETOOTH Specification version 5.0
Output
BLUETOOTH Specification Power Class 1
Maximum communication range
Line of sight approx. 30 m[1)]
Maximum number of devices to be registered
9 devices
Frequency band
2.4 GHz band (2.4000 GHz - 2.4835 GHz)
Modulation method
FHSS (Freq Hopping Spread Spectrum)
Compatible BLUETOOTH profiles[2)]
A2DP (Advanced Audio Distribution Profile)
AVRCP (Audio Video Remote Control Profile)
Supported Codecs[3)]
SBC[4)], AAC[5)], LDAC
Transmission range (A2DP)
20 Hz - 40,000 Hz (LDAC sampling frequency 96 kHz with 990 kbps transmission)
20 Hz - 20,000 Hz (Sampling frequency 44.1 kHz)

1) The actual range will vary depending on factors such as obstacles between devices, magnetic fields around a microwave oven, static electricity, cordless phone use, reception sensitivity, the operating system, software applications, etc.
2) BLUETOOTH standard profiles indicate the purpose of BLUETOOTH communication between devices.
3) Codec: Audio signal compression and conversion format
4) Abbreviation for Subband Codec
5) Abbreviation for Advanced Audio Coding

General
Power requirements
DC 12 V (using the supplied AC adaptor connected to AC 120 V 60 Hz power supply)
Power consumption
On: 15 W
[Network/Bluetooth Standby] - [On]: Less than 2.4 W
[Network/Bluetooth Standby] - [Off]: Less than 0.5 W*
* When [Standby Through] is set to [Off], or [Standby Through] is set to [Auto] while the connected TV is turned off.
Dimensions* (approx.) (w/h/d)
150 mm × 52 mm × 150 mm (6 in × 2 1/8 in × 6 in)
* Not including projection portion
Mass (approx.)
730 g (1 lb 10 oz)

Devices you can stream audio from
- iPhone, iPad, or iPod touch with iOS 11.4 or later
- Apple TV 4K or Apple TV HD with tvOS11.4 or later
- HomePod with iOS 11.4 or later
- Mac with either iTunes 12.8 or later or macOS Catalina
- PC with iTunes 12.8 or later

Wireless Transmitter/ Receiver Section

Communication system
Wireless Sound Specification version 4.0
Frequency band
5 GHz
Modulation method
OFDM

Supplied Accessories

- Remote control (1)
- R03 (size AAA) battery (2)
- HDMI cable (4K, 8K transmission supported) (1)
- TV center speaker mode cable (1)
- AC adaptor (1)
- AC power cord (mains lead) for the speaker (4)
- Startup Guide
- Operating Instructions

Design and specifications are subject to change without notice.

HT-A9

HOME THEATRE SYSTEM

SA-FLA9/FRA9/RLA9/RRA9

ACTIVE SPEAKER

TMR-A9WT

CONTROL BOX

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* excluding DSD format contents

**in comparison with SBC (Subband Coding) when the bitrate of 990 kbps (96/48 kHz) or 909 kbps (88.2/44.1 kHz) is selected

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SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check:
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)

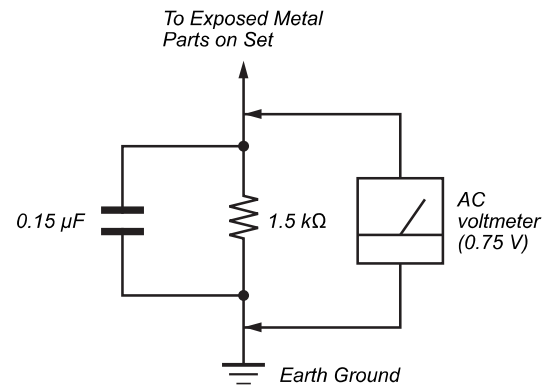


Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ 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.

TABLE OF CONTENTS

SECTION 1
SERVICING NOTES

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

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.

NOTE OF REPLACING THE FUSE

The fuse is or could be in the neutral. When a fuse is being replaced, the main plug shall be disconnected from the AC outlet to prevent electric shock.

ADVANCE PREPARATION WHEN CONFIRMING OPERATION

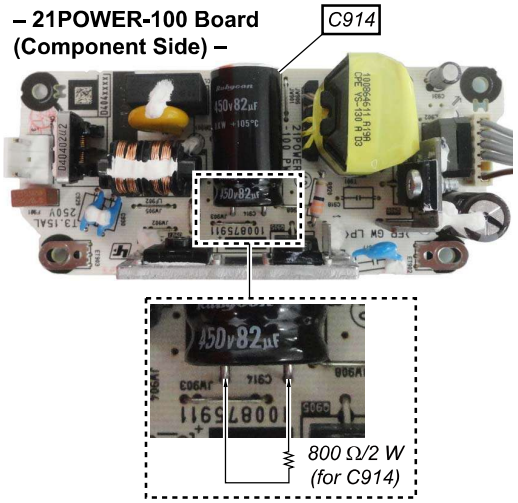
All of the units included in the HT-A9 (SA-FLA9/FRA9/RLA9/RRA9/TMR-A9WT/Remote control) are required to confirming operation of this unit. Also, if it is used an optional subwoofer, all optional equipment is required in addition to the HT-A9.
Check in advance that the full set of the all units and accessories are prepared.

ABOUT THE STRUCTURE OF ACTIVE SPEAKERS (SA-FLA9/FRA9/RLA9/RRA9)

Each active speaker (SA-FLA9/FRA9/RLA9/RRA9) all have the same structure. However, the model number label and software written on the RF module are different.

DISCHARGE PROCESSING METHOD

When disassembling the unit after checking the operation of the active speakers, for the electric shock prevention, perform the discharge processing by connecting the resistor at both ends of the specified capacitor with referring to the figure below.
Note: Be sure to use a resistor of 800 Ω or higher for the discharge processing.



ABOUT THE PROTECT

When "PRTCT", "PUSH", speaker name ("FL", "FR", "RL", "RR" or "SUB") and "POWER" flashes in the front panel display alternately:

The protection function is working for the active speakers (SA-FLA9/FRA9/RLA9/RRA9) or the optional speaker.

If "FL" flashes, press the [⏻] button of the SA-FLA9 to turn the power off, unplug the power cord from an AC outlet, and then reinsert the power cord into an AC outlet.

If "FR" flashes, press the [⏻] button of the SA-FRA9 to turn the power off, unplug the power cord from an AC outlet, and then reinsert the power cord into an AC outlet.

If "RL" flashes, press the [⏻] button of the SA-RLA9 to turn the power off, unplug the power cord from an AC outlet, and then reinsert the power cord into an AC outlet.

If "RR" flashes, press the [⏻] button of the SA-RRA9 to turn the power off, unplug the power cord from an AC outlet, and then reinsert the power cord into an AC outlet.

When it is correctly reconnected, the front panel display will return to the normal display.

(Refer to the right figure)

If "SUB" flashes, press the [⏻] button of the optional subwoofer to turn the power off.

After that, unplug the power cord from an AC outlet, check that the ventilation holes on the rear side are not blocked, and leave it for a while. Then plug the power cord into an AC outlet to turn the power on.

When it is correctly reconnected, the front panel display will return to the normal display.

(Refer to the right figure)

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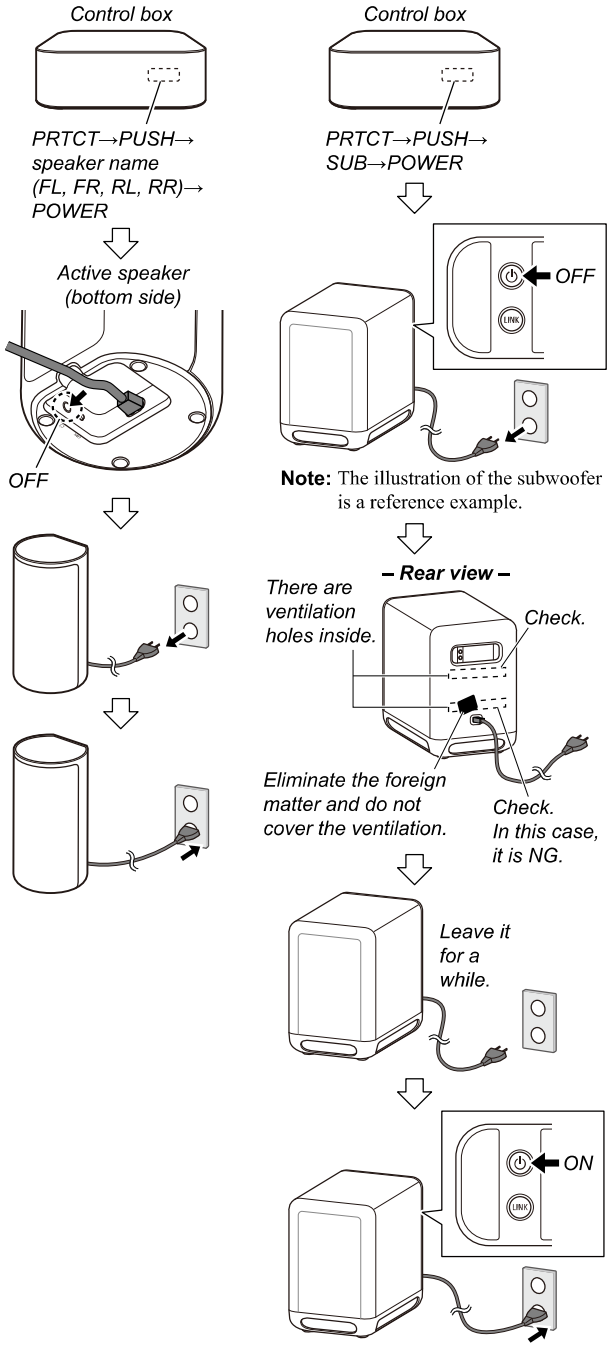
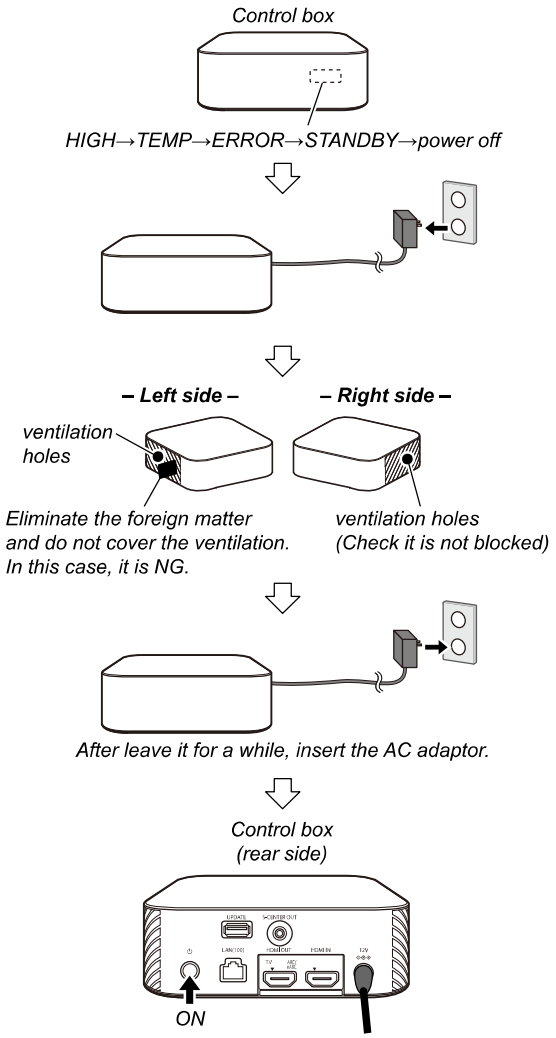


When "HIGH", "TEMP" and "ERROR" flashes alternately for about 2 seconds in the front panel display, and after "STANDBY" is displayed, the power is turned off:

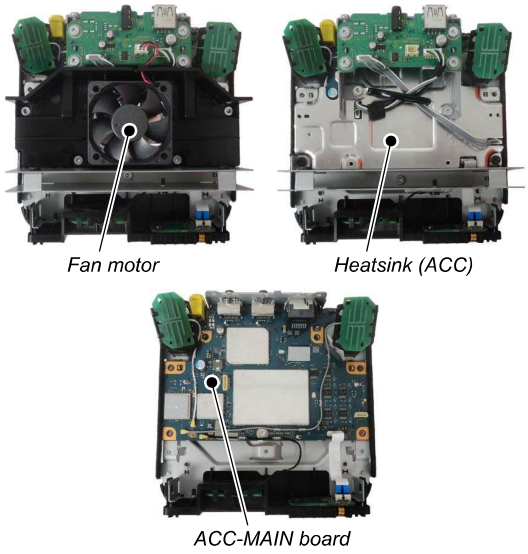
It is detecting a high temperature condition.
Unplug the AC adaptor of the control box from an AC outlet, check that the ventilation holes on the side of the control box are not blocked, and leave it for a while.
Then plug the AC adaptor into an AC outlet and press the [⏻] button on the control box to restart.



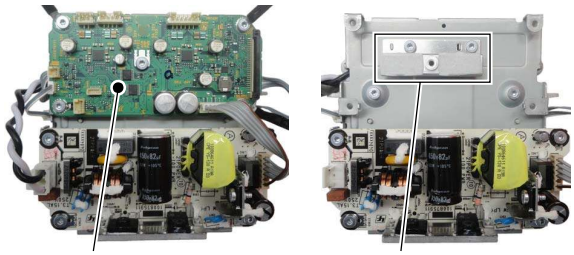
NOTE OF PERFORMING THE OPERATION CHECK IN THE STATUS THAT HEATSINK AND FAN MOTOR ARE REMOVED

When performing the operation check in the status that control box or active speakers are disassembled, it is possible to perform the operation check in the status that heatsink and fan motor is removed. However, in that case, set the volume to low level and perform the work in the short time so as a few minutes.
When it is necessary to work in the middle level volume or more, or a few minutes or more, be sure to perform in the status that heatsink and fan motor are installed to the ACC-MAIN board (control box) or AMP board (active speakers).

– Control Box –



– Active Speaker –

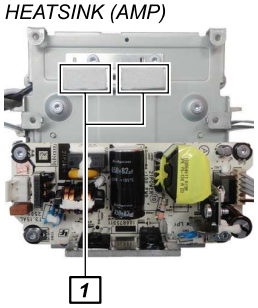


ABOUT THE RADIATION SHEET, THERMAL CONDUCT SHEET

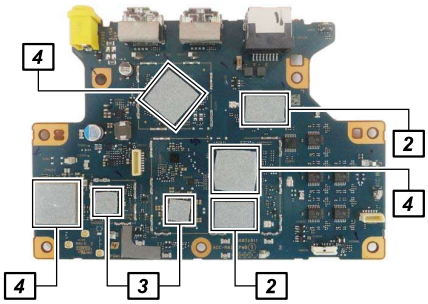
The multiple radiation sheets or thermal conduct sheets are used inside the control box and active speakers.
When assembling the control box and active speakers, be sure to check that the radiation sheets or thermal conduct sheets are installed on the correct position.

Illustration number	Part name	Size (VxWxT mm)	Usage quantity	Note of replacing the parts
1	SHEET, RADIATION (T05)	20.0 x 10.0 x 0.5	2	New parts can be used as they are
2	THERMAL CONDUCT SHEET	15.0 x 10.0 x 1.0	2	Cut the 21.0 x 14.0 mm THERMAL CONDUCT SHEET to the size shown on the left and use it.
3	THERMAL CONDUCT SHEET	8.0 x 8.0 x 1.0	3	Cut the 21.0 x 14.0 mm THERMAL CONDUCT SHEET to the size shown on the left and use it.
4	THERMAL CONDUCT SHEET (SC A)	15.0 x 15.0 x 1.0	3	New parts can be used as they are

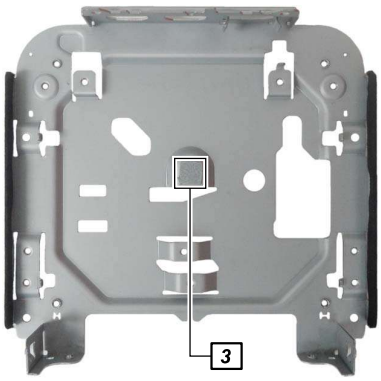
– Active Speaker –
HEATSINK (AMP)



– Control Box –
ACC-MAIN board (side A)
(State that shields are removed)



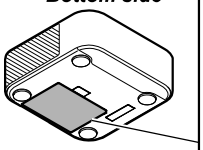
– Control Box –
CHASSIS (ACC)



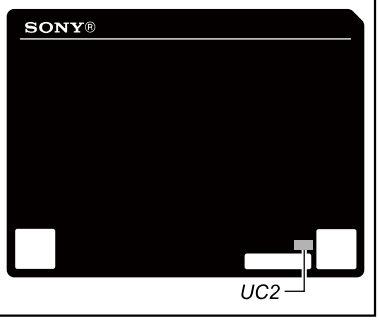
MODEL IDENTIFICATION

When checking the destination, check that “UC2” is indicated at the lower right of the model number label on the bottom side of the control box.
Alternatively, check that “UC2” is indicated at the lower left of the model number label on the bottom side of the active speaker.
When “UC2” is indicated, it is HT-A9 for US.
When “UC2” is not indicated, it is HT-A9 other than US.
Note: The contents of model number label might be changed in the midway of production.

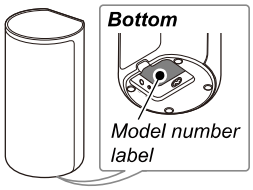
Control Box
– Bottom side –



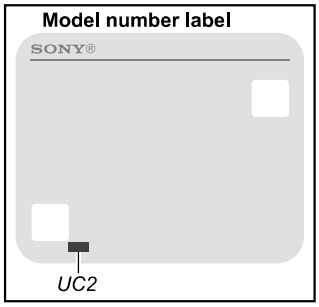
Model number label



Active Speaker
– Bottom side –



Model number label



INITIALIZATION METHOD

When does not operate properly, perform the initialize according to the following procedure.

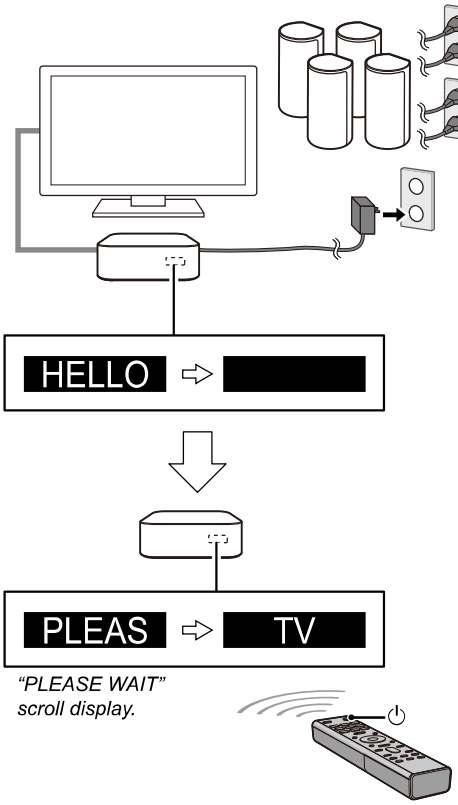
Note 1: When performing the initialize, all settings return to the factory defaults.

Note 2: When the optional subwoofer is connected, wireless connection might be broken.

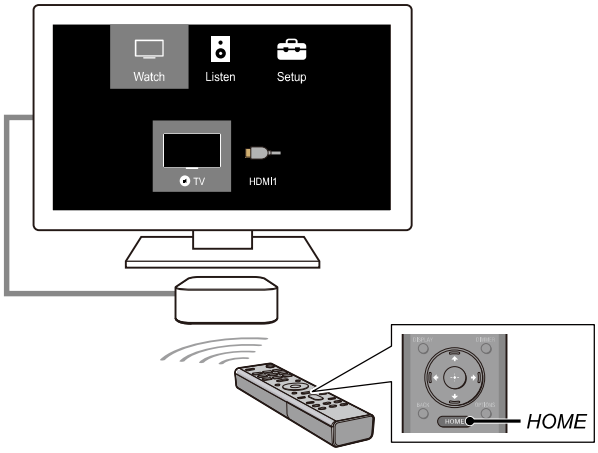
1. Initialize the control box

Procedure:

1. Connect the HT-A9 to the TV monitor, plug the AC adaptor to an AC outlet, and press the [⏻] button on the remote control to turn the power on.



2. Press the [HOME] button on the remote control to display the home menu on the TV monitor.



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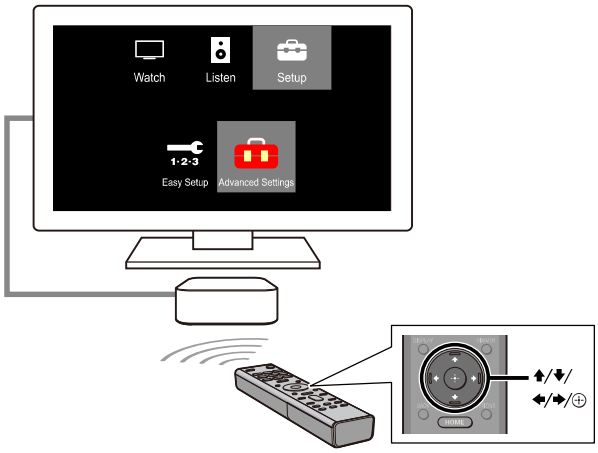
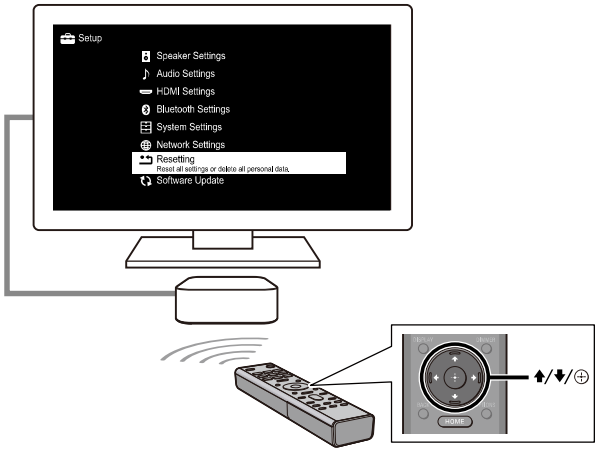
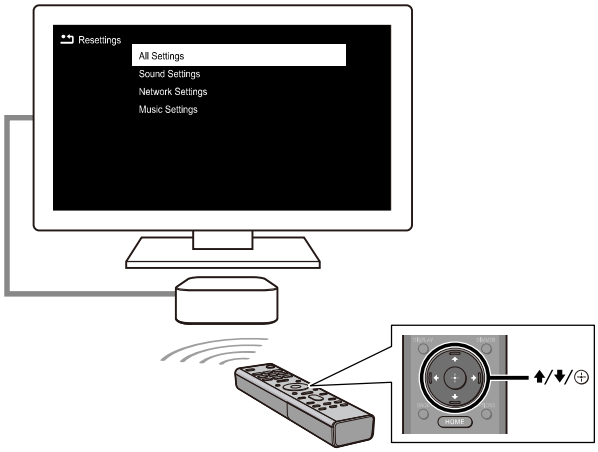
3. Press the [▲]/[▼]/[◀]/[▶] button on the remote control, select the "Setup" → "Advanced Settings" in the order, and press the [⊕] button.



4. Press the [▲]/[▼] button on the remote control, select the "Resetting", and press the [⊕] button.



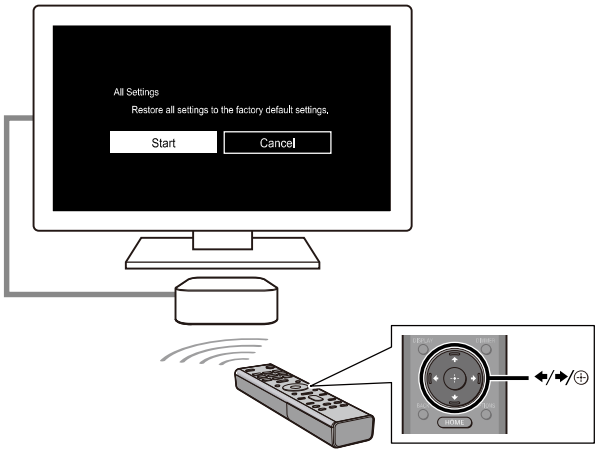
5. Press the [▲]/[▼] button on the remote control, select the "All Settings", and press the [⊕] button.



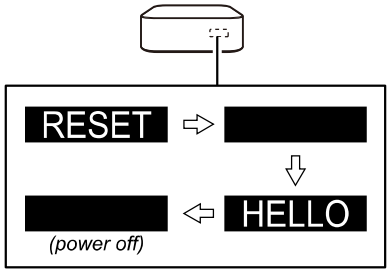
– Continued on next page –

6. Press the [←]/[→] button on the remote control, select the “Start”, and press the [⊕] button to start the initialization.

Note 3: When it cancel the initialization operation, select the “Cancel” in this procedure, and press the [⊕] button on the remote control



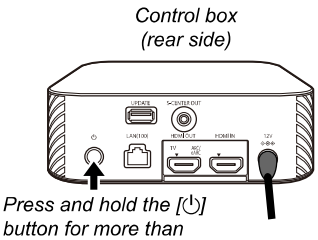
7. All settings return to the initial status, and it reboots automatically. Then power is turned off automatically.

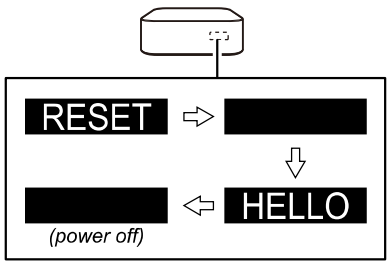


1-1. When it cannot initialize by operating the home menu

Press and hold the [⏻] button for more than 10 seconds on the control box.

It performs the initialize and reboots automatically, then power is turned off automatically.

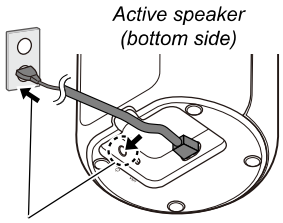




2. Initialize the active speaker

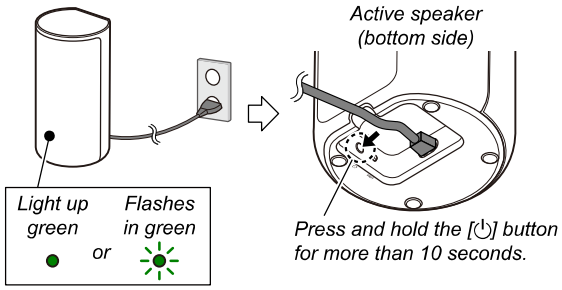
Procedure:

1. While press and hold the [⏻] button of one active speaker you want to initialize from the four active speakers, plug the power cord into an AC outlet, and hold the [⏻] button for more than 10 seconds.
   Alternatively, with the power of one active speaker you want to initialize turned on (the power indicator is flashes in green or light up green), press and hold the [⏻] button of the active speaker for more than 10 seconds.

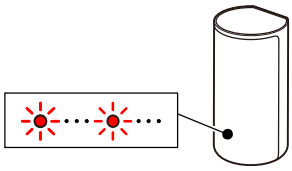


While press and hold the [⏻] button, plug the power cord into an AC outlet, and hold the [⏻] button for more than 10 seconds.

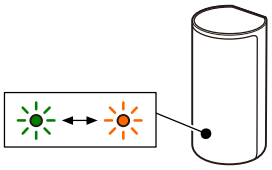
or



2. The power indicator of the active speakers slowly flashes in red and the initialize start.

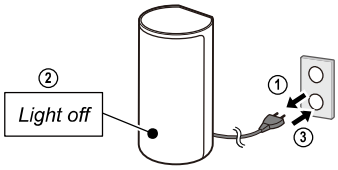


3. When the initialize is complete, the active speakers power indicator will flashes in green and orange alternately.



– Continued on next page –

4. Unplug the power cord from an AC outlet, check that the power indicator is light off, and then reconnect the power cord to an AC outlet.



5. Complete the initialization work of the active speakers.

Note: If you want to initialize all four active speakers, perform step 1 through step 4 one by one.

NOTE OF REPLACING THE ACC-ANT BOARD

When the ACC-ANT board of the control box (TMR-A9WT) is replaced with a new board, be sure to check the following connection and make sure you can connect without any problems.

- Turn the power on and check that the control box and active speaker can be connected automatically.
- Check the BLUETOOTH connection
  (Refer to "BLUETOOTH CONNECTION CHECKING METHOD" on page 14)
- Check the network connection
  (Refer to "NETWORK CONNECTION CHECKING METHOD" on page 12)

NOTE OF REPLACING THE RF MODULE

When the RF module of the active speakers (SA-FLA9/FRA9/RLA9/RRA9) is replaced with a new part, turn the power on and check that the control box and active speaker can be connected automatically.

NETWORK CONNECTION CHECKING METHOD

When checking the network connection, refer to the following.

1. Checking the wireless LAN connection

Necessary equipment:

- TV monitor
- Access point

Procedure:

1. Connect the control box (TMR-A9WT) with TV monitor.
2. Press the [⏻] button to turn the power on.
3. Press the [HOME] button on the remote control, display the home screen.
4. Press the [↑]/[↓]/[←]/[→] buttons on the remote control to select the "Setup", and press the [⊕] button on the remote control.
5. Press the [←]/[→] buttons on the remote control to select the "Advanced Settings", and press the [⊕] button on the remote control.
6. Press the [↑]/[↓] buttons on the remote control to select the "Network Settings", and press the [⊕] button on the remote control.
7. Press the [↑]/[↓] buttons on the remote control to select the "Internet Settings", and press the [⊕] button on the remote control.

Note 1: Make sure that the item "Wi-Fi connection" above "Internet Settings" is set to [On]. If a network LAN cable is connected, the "Wi-Fi connection" item is grayed out. Unplug the network LAN cable before proceeding to the next step.

8. The message "Next" is displayed.
9. Press the [⊕] button on the remote control.
10. Press the [←]/[→] buttons on the remote control to select the "Search for Wi-Fi network", and press the [⊕] button on the remote control.
11. Press the [↑]/[↓] buttons on the remote control to select the Wi-Fi network to connect to this unit.
12. Enter the password for Wi-Fi network to connect to this unit using the remote control.
13. When Wi-Fi network connection is completed, "Connection Method: Wi-Fi" and "Internet Access: OK" is displayed.

Note 2: Refer to the help guide about details of the network connection method.

2. Checking the wired LAN connection

Necessary equipment:

- TV monitor
- Router
- Network LAN cable

Procedure:

1. Connect the control box (TMR-A9WT) with TV monitor.
2. Connect the control box (TMR-A9WT) to the router with the network LAN cable.
3. Press the [⏻] button to turn the power on.
4. Press the [HOME] button on the remote control, display the home screen.
5. Press the [↑]/[↓]/[←]/[→] buttons on the remote control to select the "Setup", and press the [⊕] button on the remote control.
6. Press the [←]/[→] buttons on the remote control to select the "Advanced Settings", and press the [⊕] button on the remote control.
7. Press the [↑]/[↓] buttons on the remote control to select the "Network Settings", and press the [⊕] button on the remote control.
8. Press the [↑]/[↓] buttons on the remote control to select the "Internet Settings", and press the [⊕] button on the remote control.
9. The message "Next" is displayed.
10. Press the [⊕] button on the remote control.
11. Press the [←]/[→] buttons on the remote control to select the "Auto", and press the [⊕] button on the remote control.
12. The "The network will be configured with the following settings" screen is display, and press the [→] button on the remote control.
13. Press the [←]/[→] buttons on the remote control to select the "Save & Connect", and press the [⊕] button on the remote control.
14. When wired LAN connection is completed, "Connection Method: Wired" and "Internet Access: OK" is displayed.

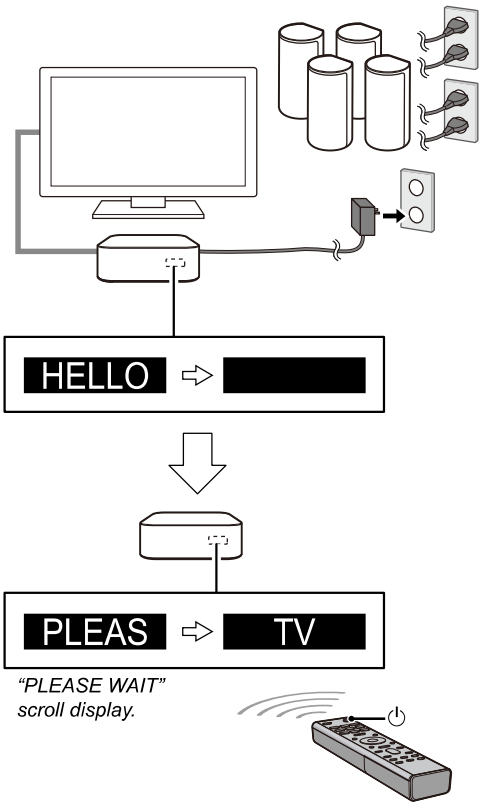
Note 3: Refer to the help guide about details of the network connection method.

MAC ADDRESS CHECKING METHOD

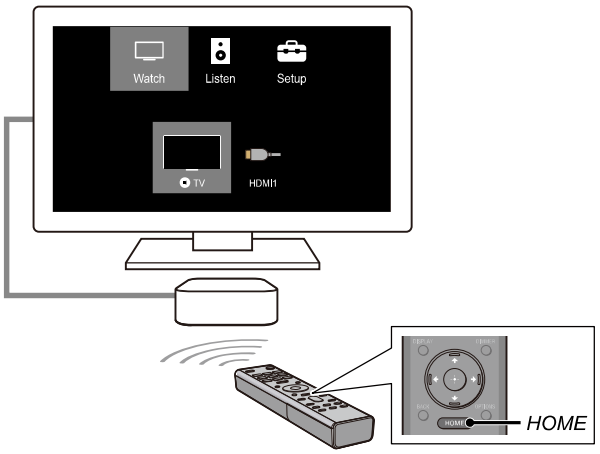
When checking the MAC address, refer to the following.

Checking Procedure:

1. Connect the control box (TMR-A9WT) to the TV monitor, plug the AC adaptor to an AC outlet, and press the [⏻] button on the remote control to turn the power on.



2. Press the [HOME] button on the remote control to display the home menu on the TV monitor.



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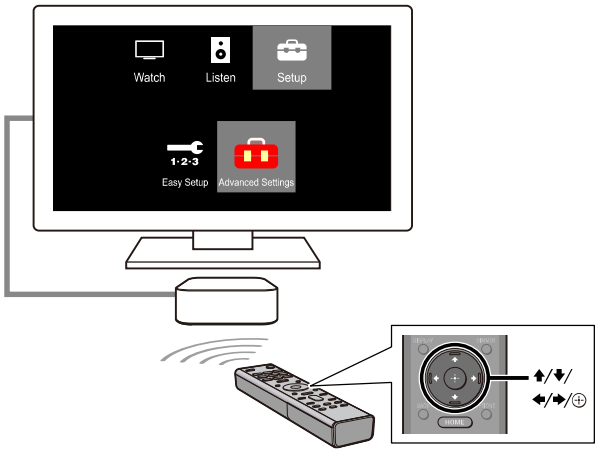
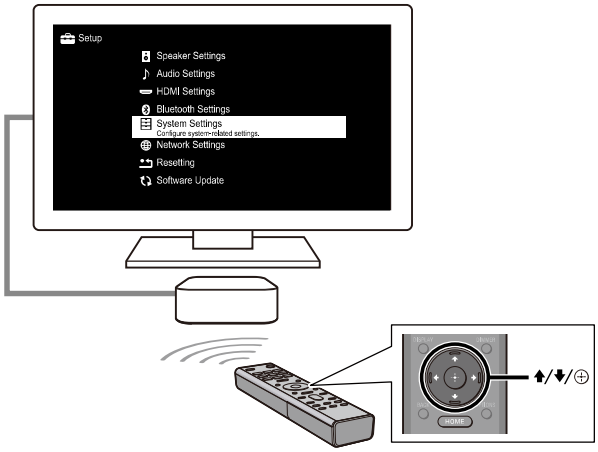
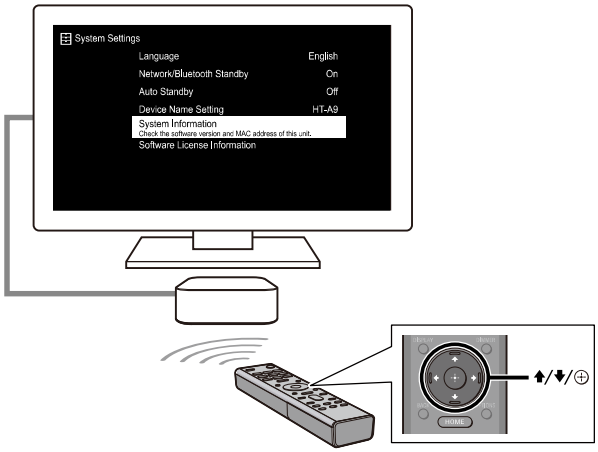
3. Press the [↑]/[↓]/[←]/[→] button on the remote control, select the "Setup" → "Advanced Settings" in the order, and press the [⊕] button.



4. Press the [↑]/[↓] button on the remote control, select the "System Settings", and press the [⊕] button.

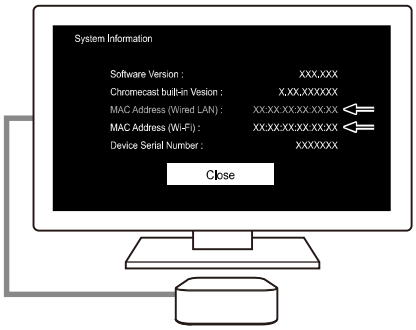


5. Press the [↑]/[↓] button on the remote control, select the "System Information", and press the [⊕] button.



– Continued on next page –

6. Check the MAC address by referring to the MAC address (Wired) field and MAC address (Wi-Fi) field on the displayed "System Information".



7. Press the [⊕] → [HOME] button in the order on the remote control to return the home menu screen, press the [⏻] button on the remote control to turn the power off, and complete the check of MAC address.

BLUETOOTH CONNECTION CHECKING METHOD

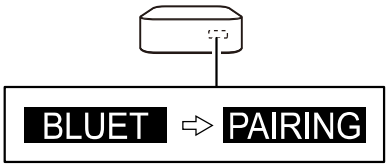
When checking the BLUETOOTH connection, refer to the following.

Preparation:

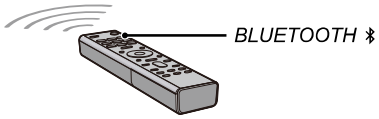
- Devices with Bluetooth function (smartphone or music player etc.)

Bluetooth Connection Procedure:

1. Press the [⏻] button to turn the power on.
2. Press the [BLUETOOTH ᛒ] button on the remote control, and enter the pairing mode.
   Check that the message "BLUETOOTH AUDIO" → "PAIRING" is displayed on the front panel display.



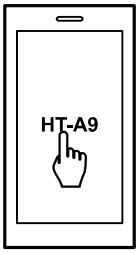
"BLUETOOTH AUDIO" scroll display.



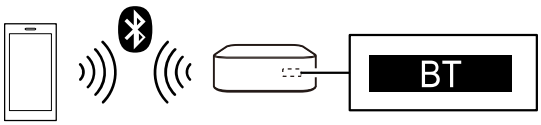
3. Operate the device with BLUETOOTH function such as a smartphone to search for "HT-A9", and perform the pairing.

Note 1: For the pairing operation method of the device with Bluetooth function, refer to the instruction manual of device with Bluetooth function.

Note 2: If a passkey is requested, input "0000".



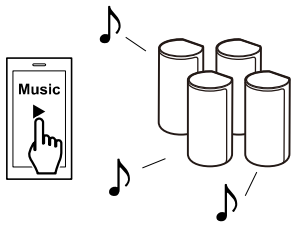
4. When the BLUETOOTH connection is established, the message "BT" is displayed on the front panel display.



– Continued on next page –

5. Operate the device with BLUETOOTH function, start the audio playback, and check that the sound is output normally from each active speakers.

Note 3: If the audio source is stereo 2ch, no sound will be output from the rear speakers.



6. Operate the device with BLUETOOTH function to stop the audio playback, and complete the BLUETOOTH connection checking work.

TOOLS

When disassembling or assembling, prepare the following tools.

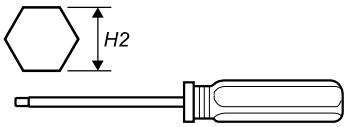
Note 1: All the screws used inside the HT-A9 (SA-FLA9/FRA9/RLA9/RRA9/TMR-A9WT) are hex socket screws.

- **Hex screw driver**

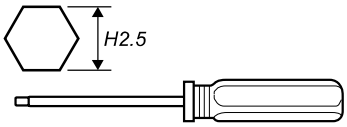
Two sizes are required. Please use a commercial item.

Note 2: Use the tools with a tip that fitting perfectly into the hexagonal hole.

Size: H2 (Width across flats: 2.0 mm)



Size: H2.5 (Width across flats: 2.5 mm)



ABOUT CHANGING THE 21POWER-100 BOARD OF THE ACTIVE SPEAKER (SA-FLA9/FRA9/RLA9/RRA9)

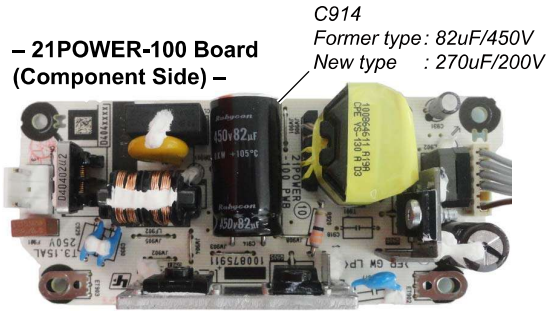
The capacitor (C914) mounted on the 21POWER-100 board of the active speaker (SA-FLA9/FRA9/RLA9/RRA9) has been changed in the midway of production. The Part No. of the complete 21POWER-100 board has been changed associated with that.

When replacing the 21POWER-100 board with a new board, be sure to refer to the following to distinguish between New and Former before starting replacement.

1. Changed capacitor

The capacitor (C914) mounted on the 21POWER-100 board of the active speaker (SA-FLA9/FRA9/RLA9/RRA9) has been changed.

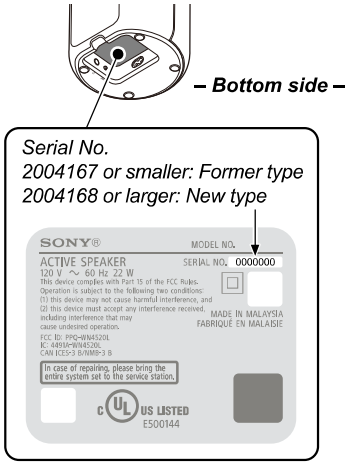
– 21POWER-100 Board (Component Side) –



2. Identification method for before changing (Former type) and after changing (New type)

• When check and identify the serial number

Refer to the serial number indicated on the model number label on the bottom of the active speaker (SA-FLA9/FRA9/RLA9/RRA9).

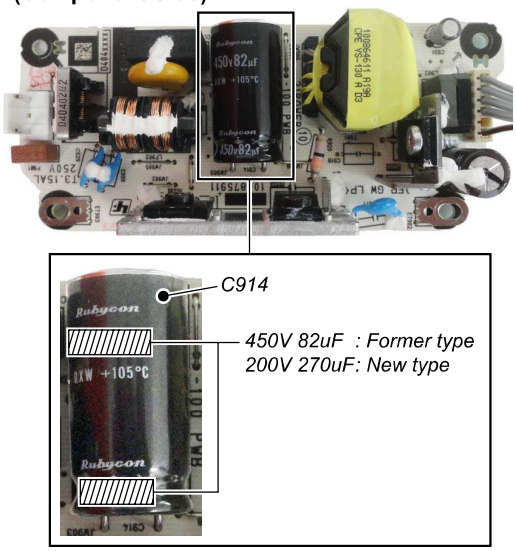


– Continued on upper right –

• When check and identify the capacitor

Disassemble until you can see the 21POWER-100 board of the active speaker (SA-FLA9/FRA9/RLA9/RRA9), and refer to the printed contents of the capacitor (C914).

– 21POWER-100 Board (Component Side) –



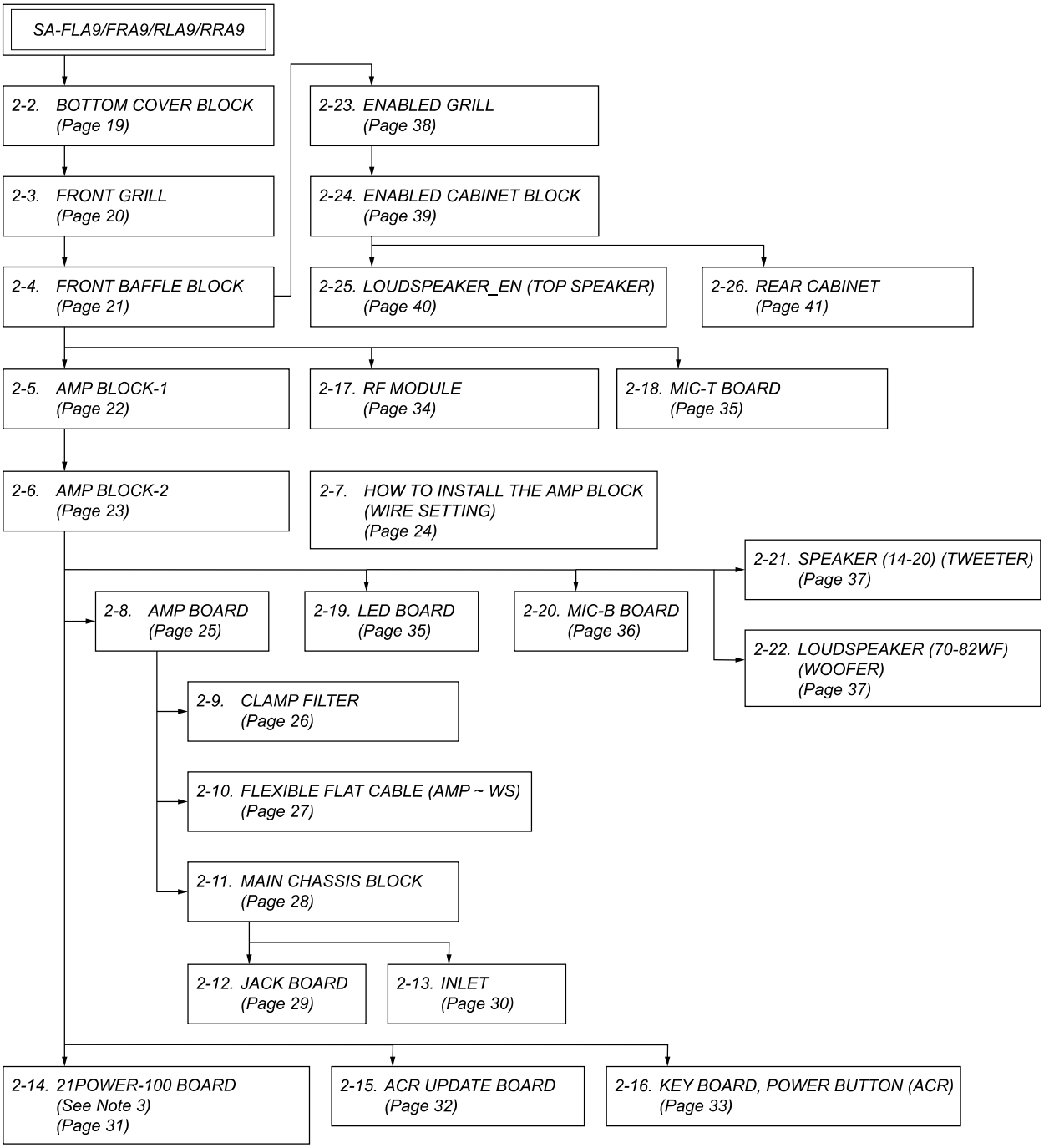
SECTION 2
DISASSEMBLY

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

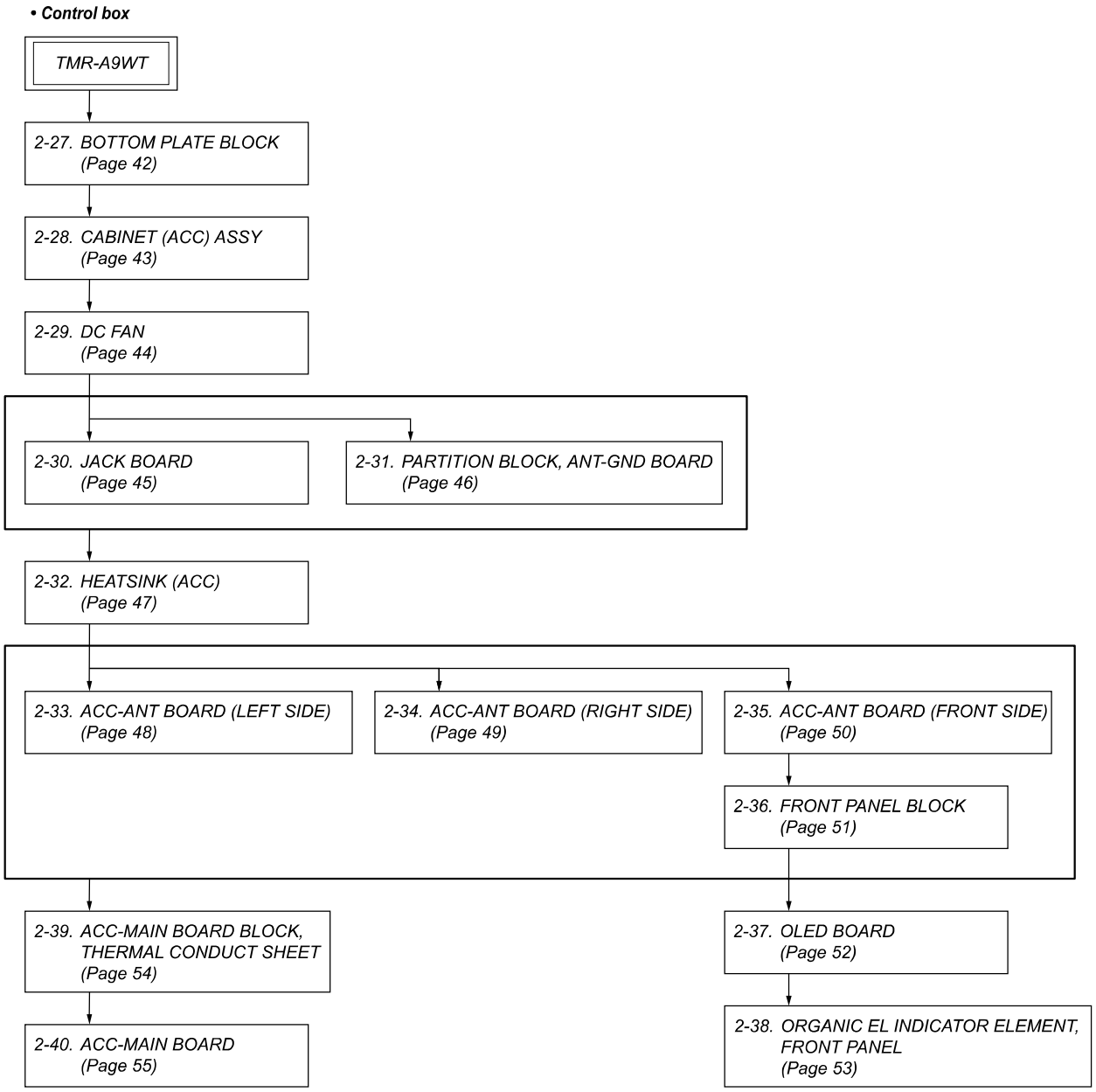
2-1. DISASSEMBLY FLOW

Note 1: All the screws used inside the HT-A9 (SA-FLA9/FRA9/RLA9/RRA9/TMR-A9WT) are hex socket screws. To remove the hex socket screw, you need a H2 size and H2.5 size hex screw driver. Refer to "TOOLS" on page 15 for driver details.
Note 2: Each active speaker (SA-FLA9/FRA9/RLA9/RRA9) all have the same structure. However, the model number label and software written on the RF module are different.

• Active speaker

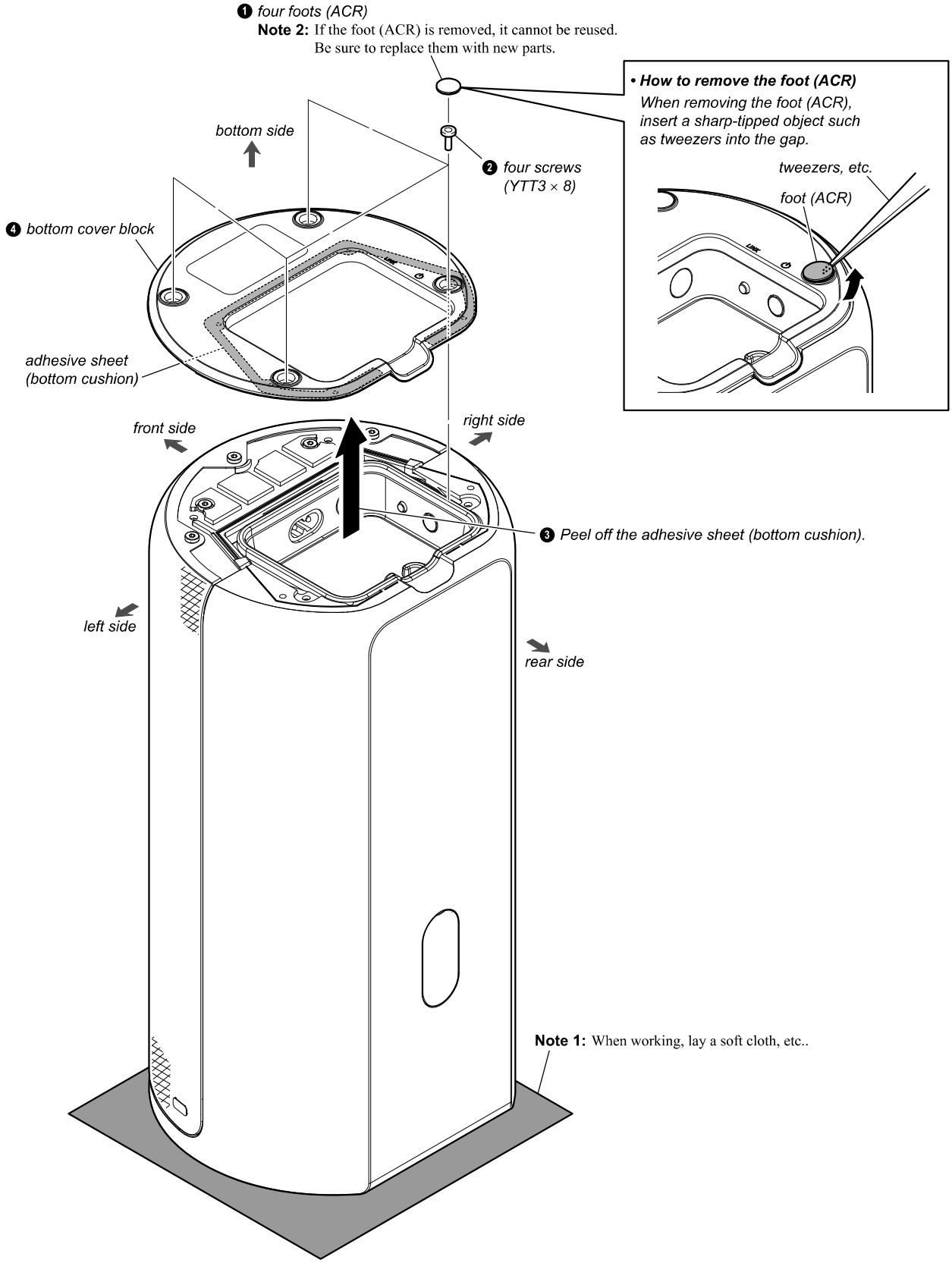


Note 3: The 21POWER-100 board has been changed in the midway of production. When replacing the 21POWER-100 board with a new board, refer to "ABOUT CHANGING THE 21POWER-100 BOARD OF THE ACTIVE SPEAKER (SA-FLA9/FRA9/RLA9/RRA9)" on page 16 in advance.

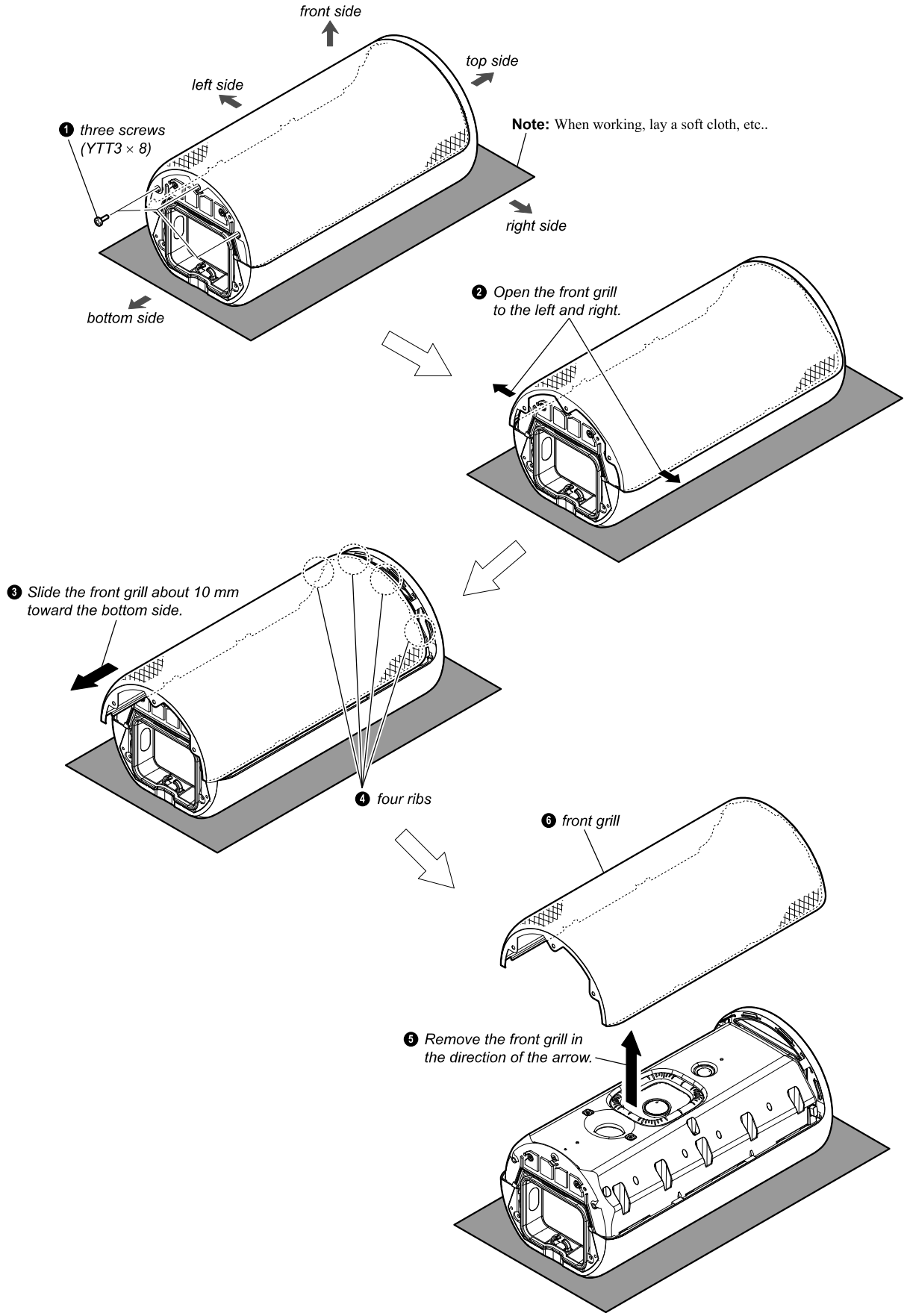

• Control box
TMR-A9WT
2-27. BOTTOM PLATE BLOCK
(Page 42)
2-28. CABINET (ACC) ASSY
(Page 43)
2-29. DC FAN
(Page 44)
2-30. JACK BOARD
(Page 45)
2-31. PARTITION BLOCK, ANT-GND BOARD
(Page 46)
2-32. HEATSINK (ACC)
(Page 47)
2-33. ACC-ANT BOARD (LEFT SIDE)
(Page 48)
2-34. ACC-ANT BOARD (RIGHT SIDE)
(Page 49)
2-35. ACC-ANT BOARD (FRONT SIDE)
(Page 50)
2-36. FRONT PANEL BLOCK
(Page 51)
2-39. ACC-MAIN BOARD BLOCK,
THERMAL CONDUCT SHEET
(Page 54)
2-40. ACC-MAIN BOARD
(Page 55)
2-37. OLED BOARD
(Page 52)
2-38. ORGANIC EL INDICATOR ELEMENT,
FRONT PANEL
(Page 53)

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

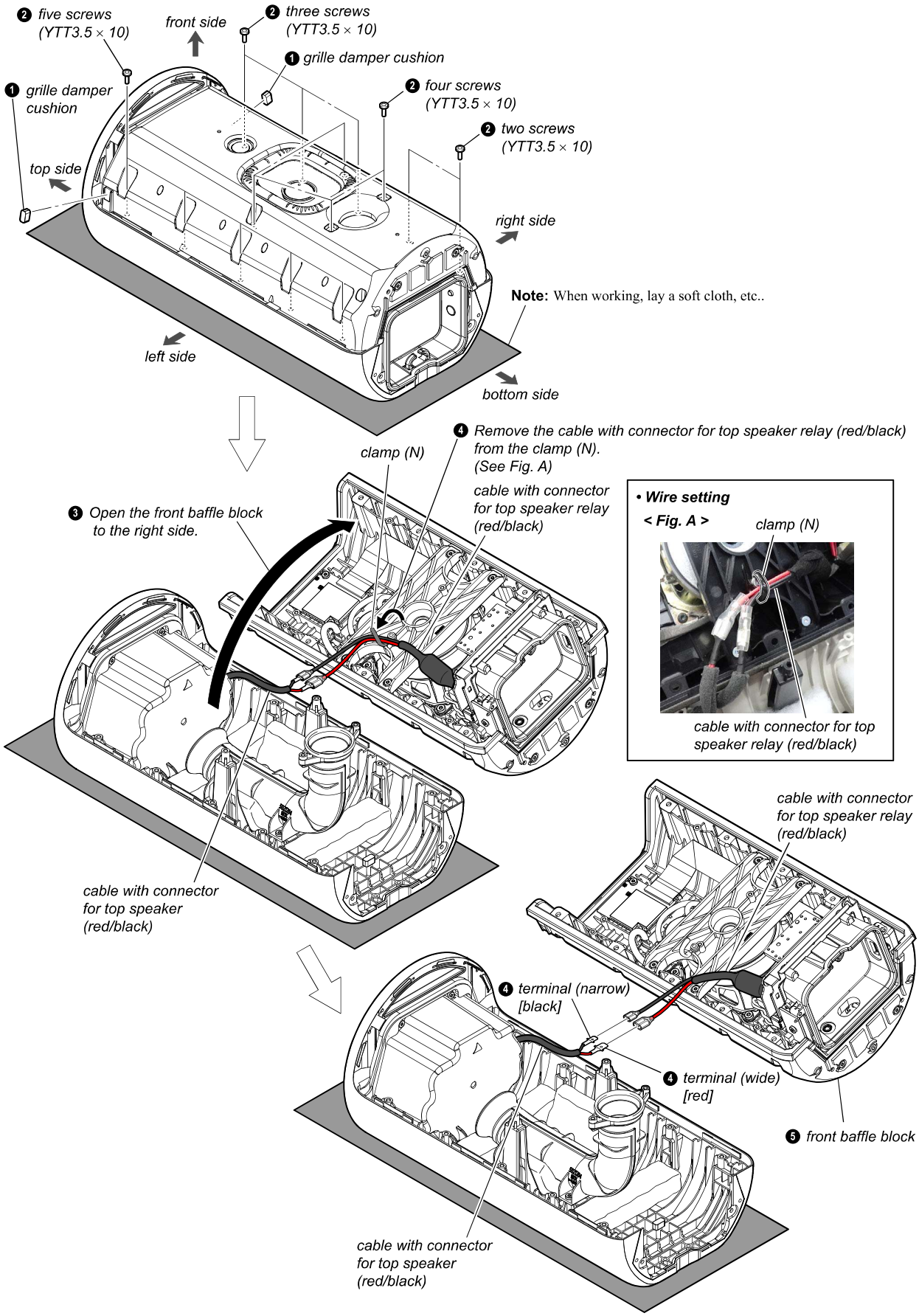
2-2. BOTTOM COVER BLOCK (SA-FLA9/FRA9/RLA9/RRA9)



2-3. FRONT GRILL (SA-FLA9/FRA9/RLA9/RRA9)

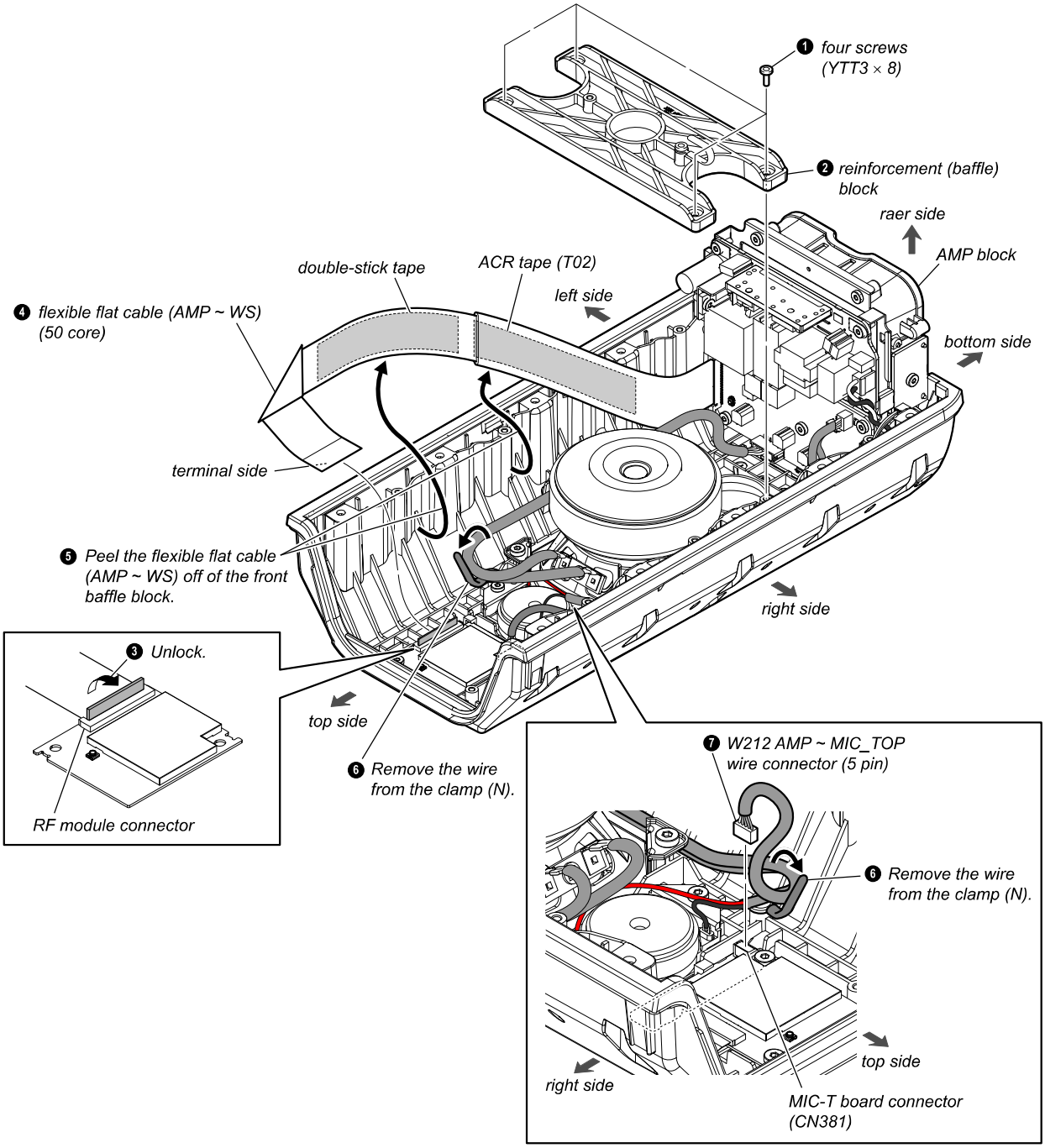


2-4. FRONT BAFFLE BLOCK (SA-FLA9/FRA9/RLA9/RRA9)

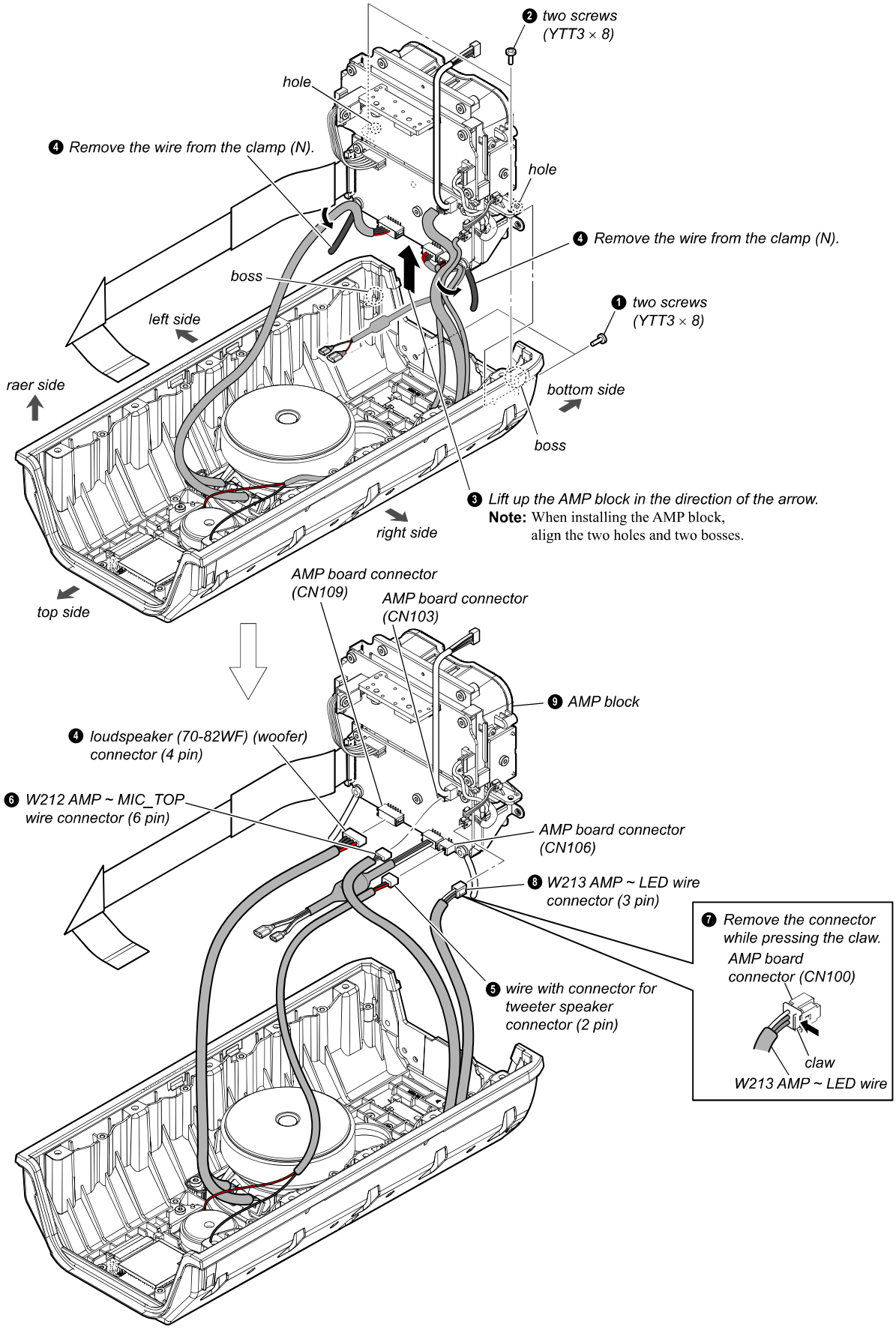


2-5. AMP BLOCK-1 (SA-FLA9/FRA9/RLA9/RRA9)

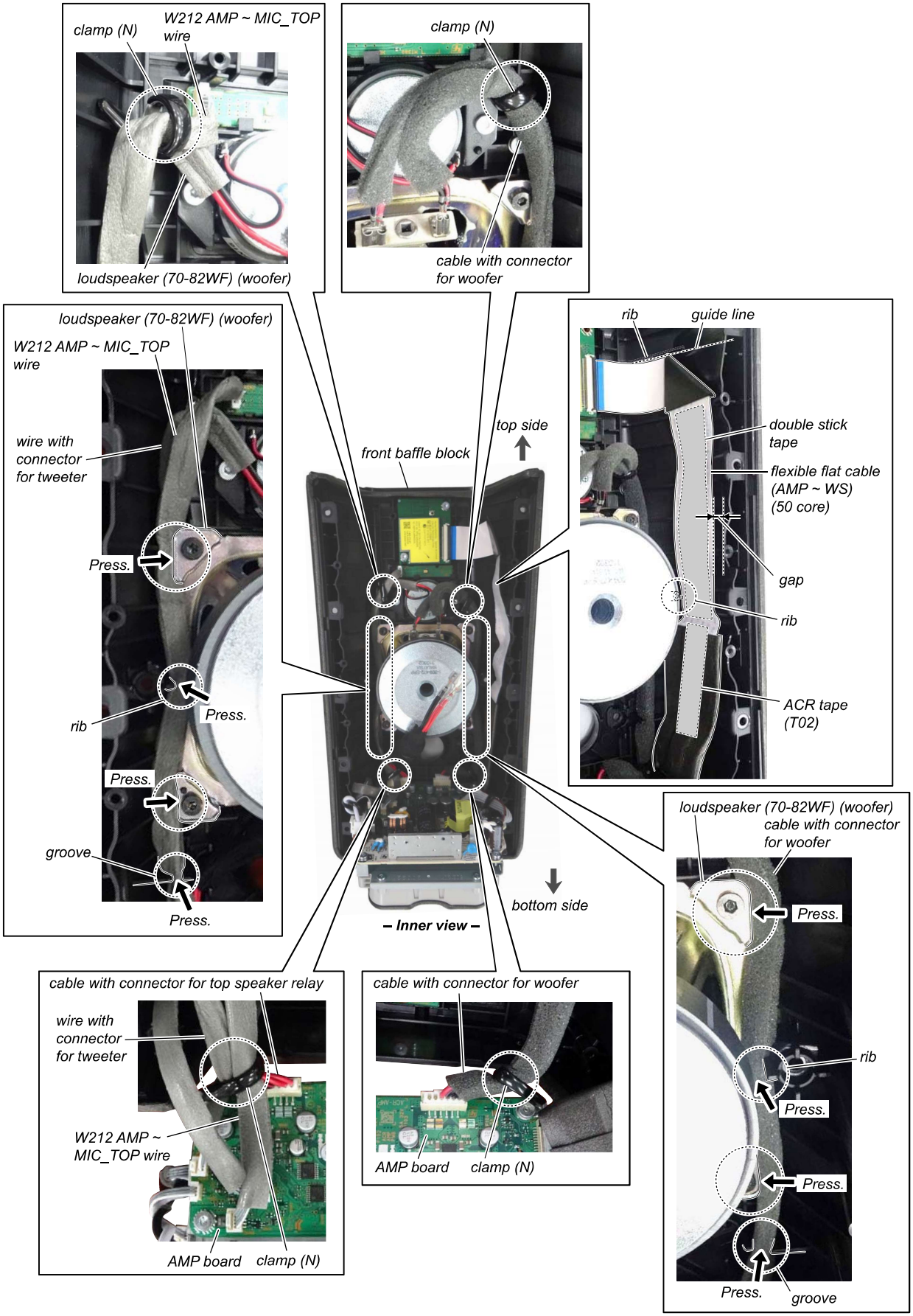
• Continued on 2-6 (page 23).



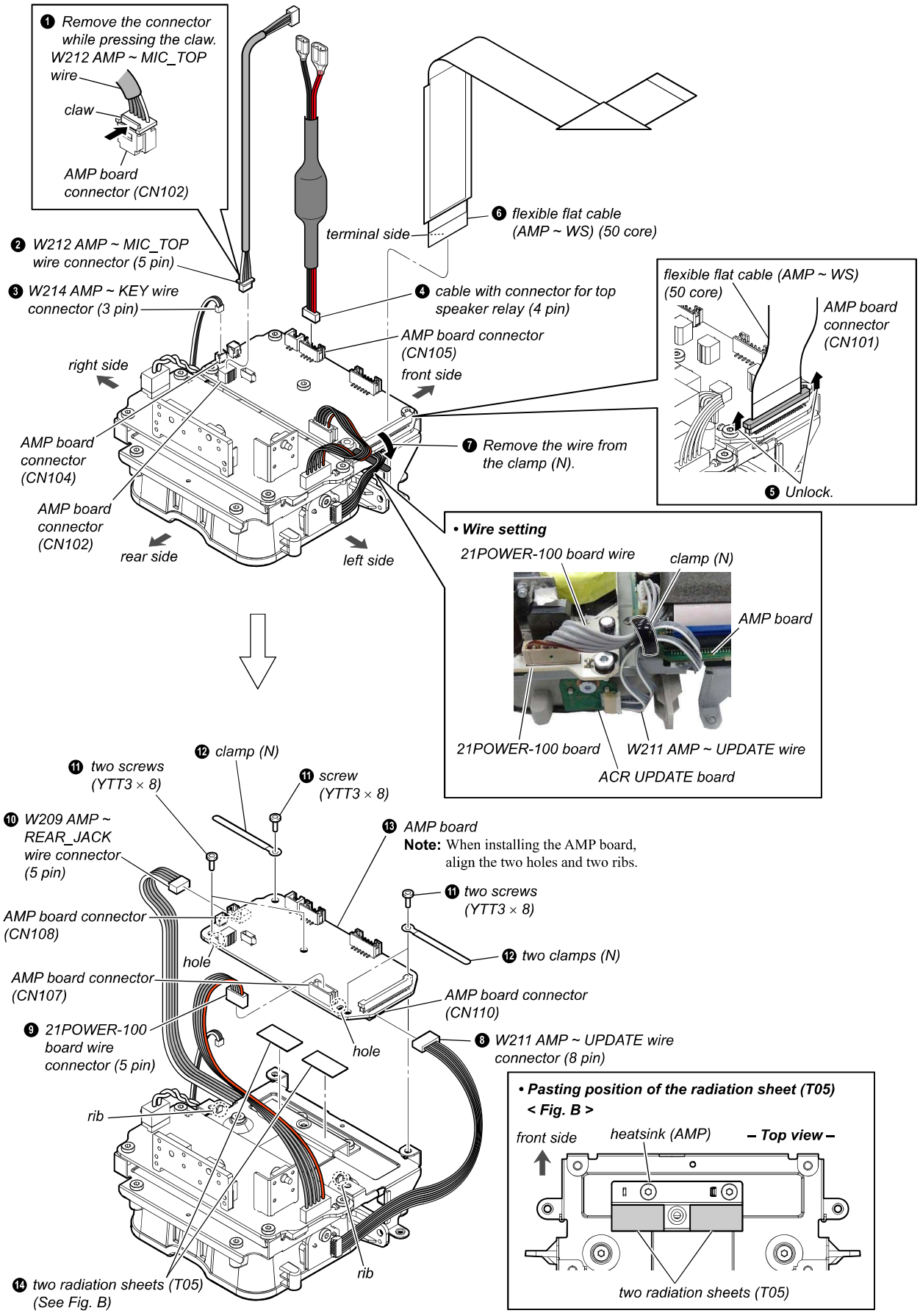
2-6. AMP BLOCK-2 (SA-FLA9/FRA9/RLA9/RRA9)



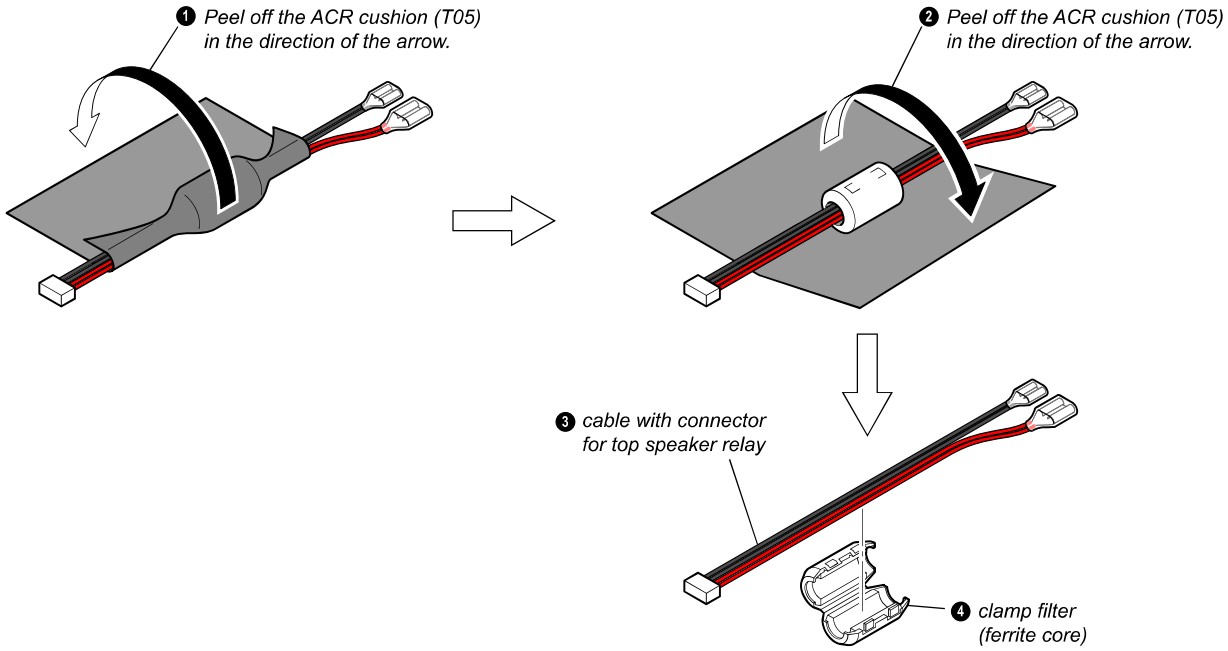
2-7. HOW TO INSTALL THE AMP BLOCK (WIRE SETTING) (SA-FLA9/FRA9/RLA9/RRA9)



2-8. AMP BOARD (SA-FLA9/FRA9/RLA9/RRA9)

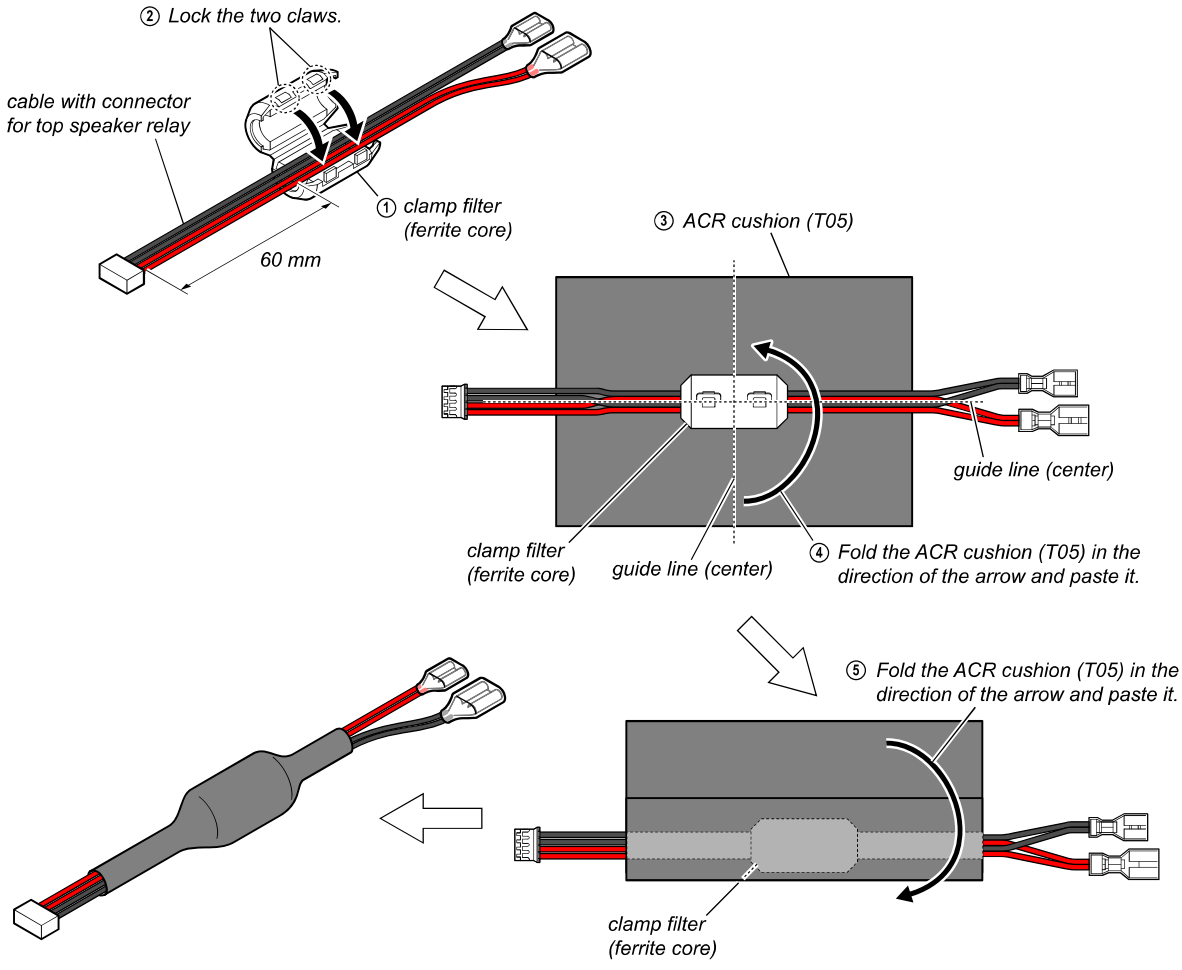


2-9. CLAMP FILTER (SA-FLA9/FRA9/RLA9/RRA9)

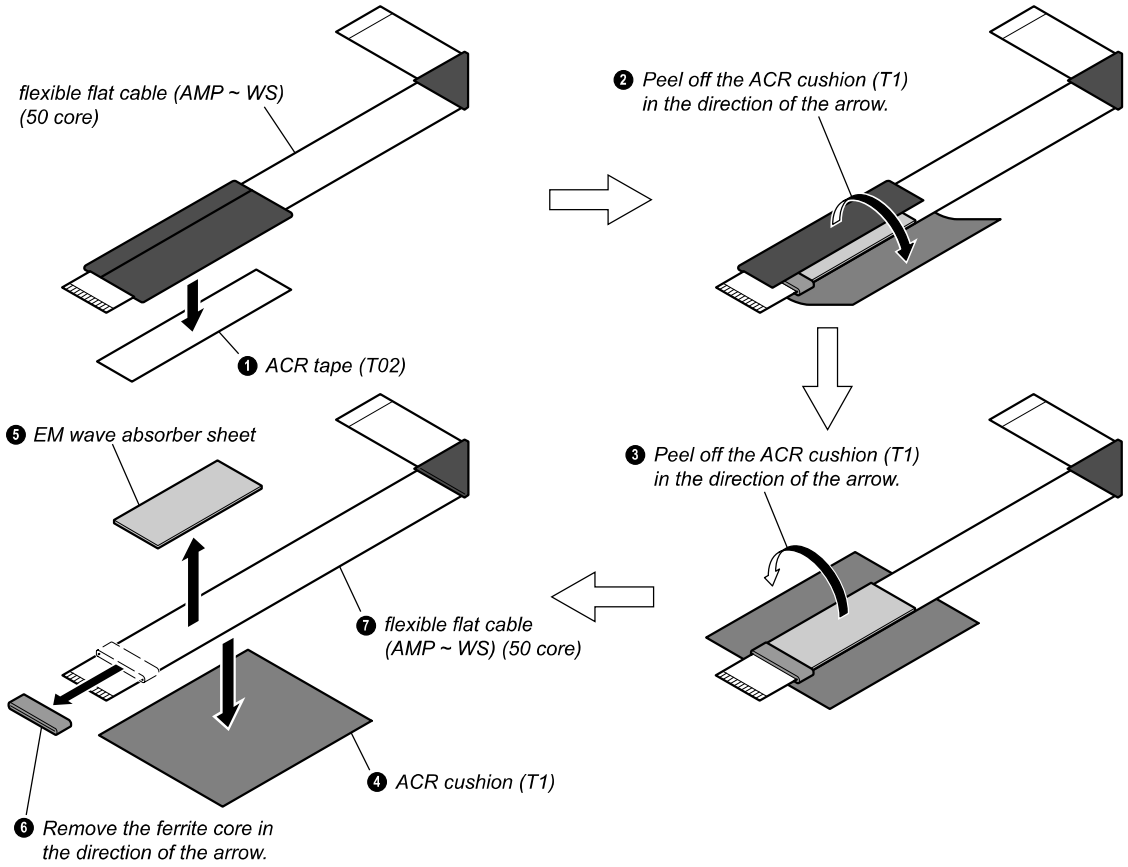


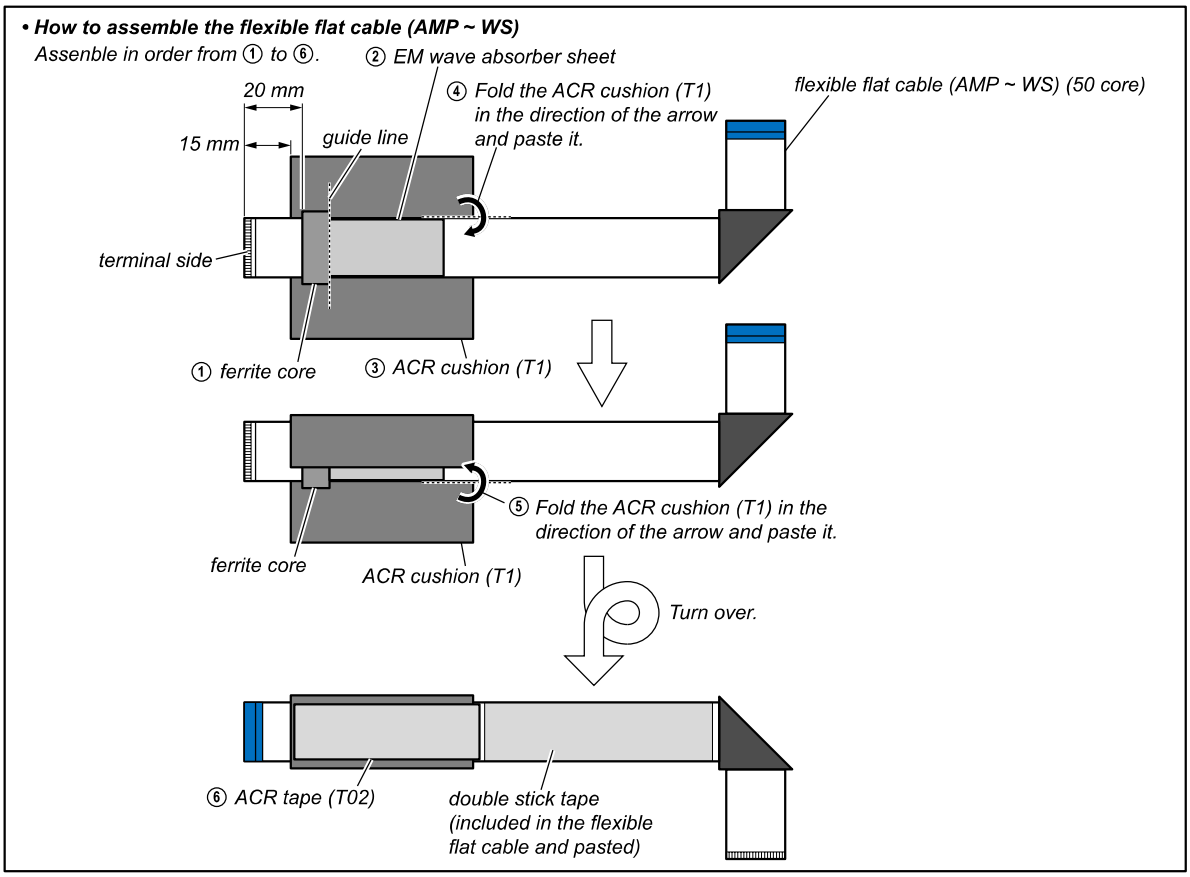
• How to assemble the cable with connector for top speaker relay

Assenble in order from ① to ⑤.

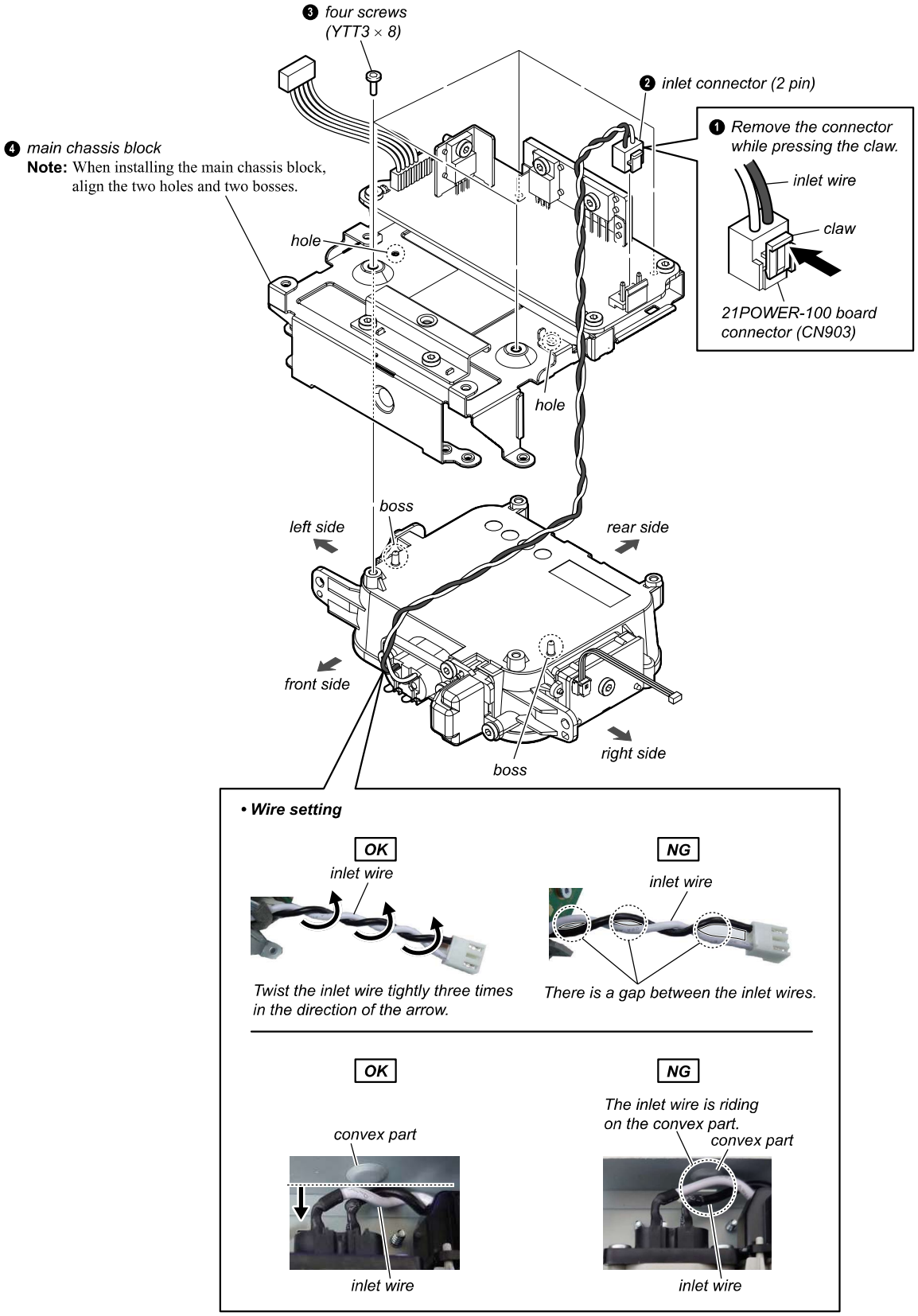


2-10. FLEXIBLE FLAT CABLE (AMP ~ WS) (SA-FLA9/FRA9/RLA9/RRA9)

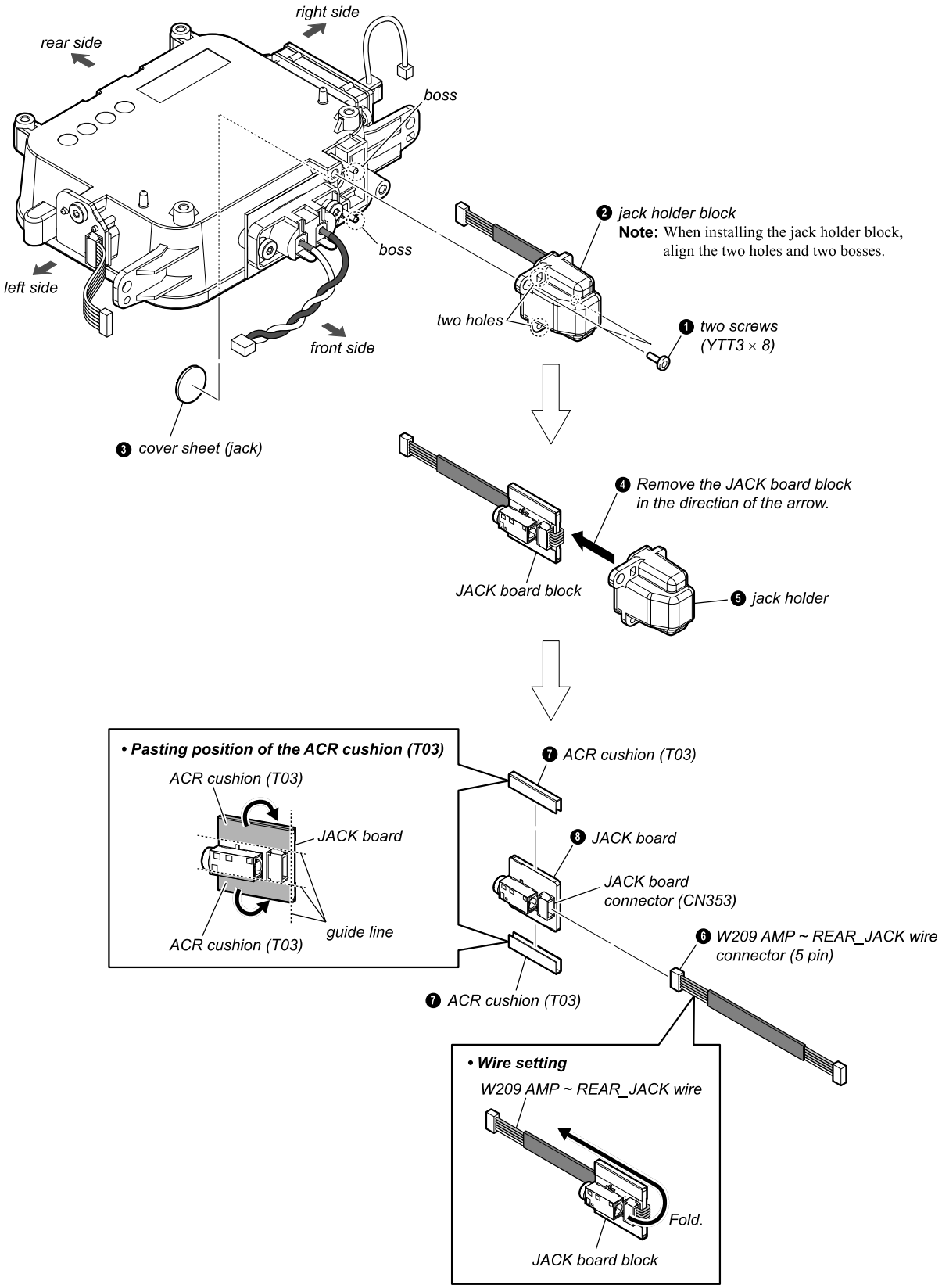




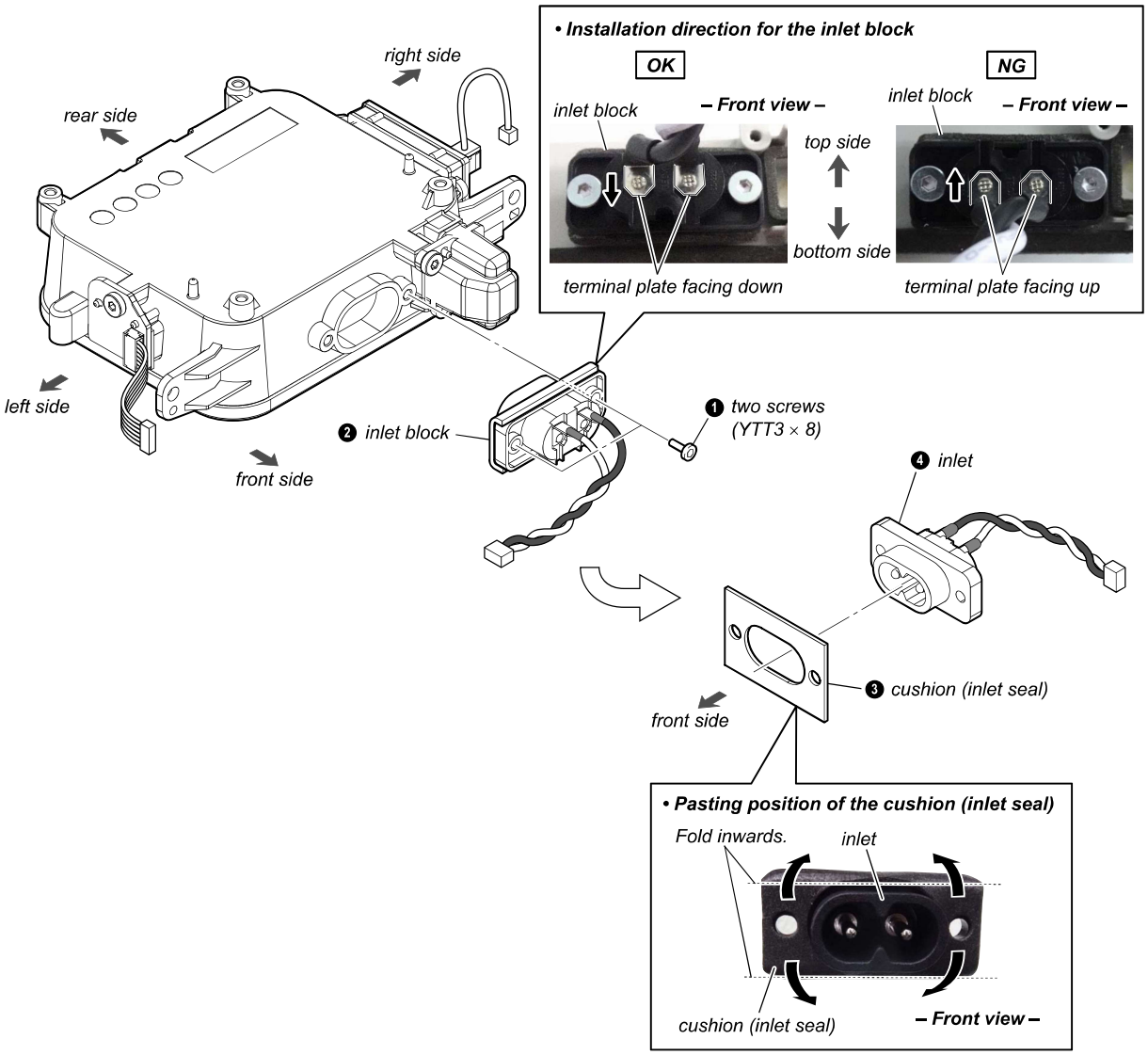
2-11. MAIN CHASSIS BLOCK (SA-FLA9/FRA9/RLA9/RRA9)



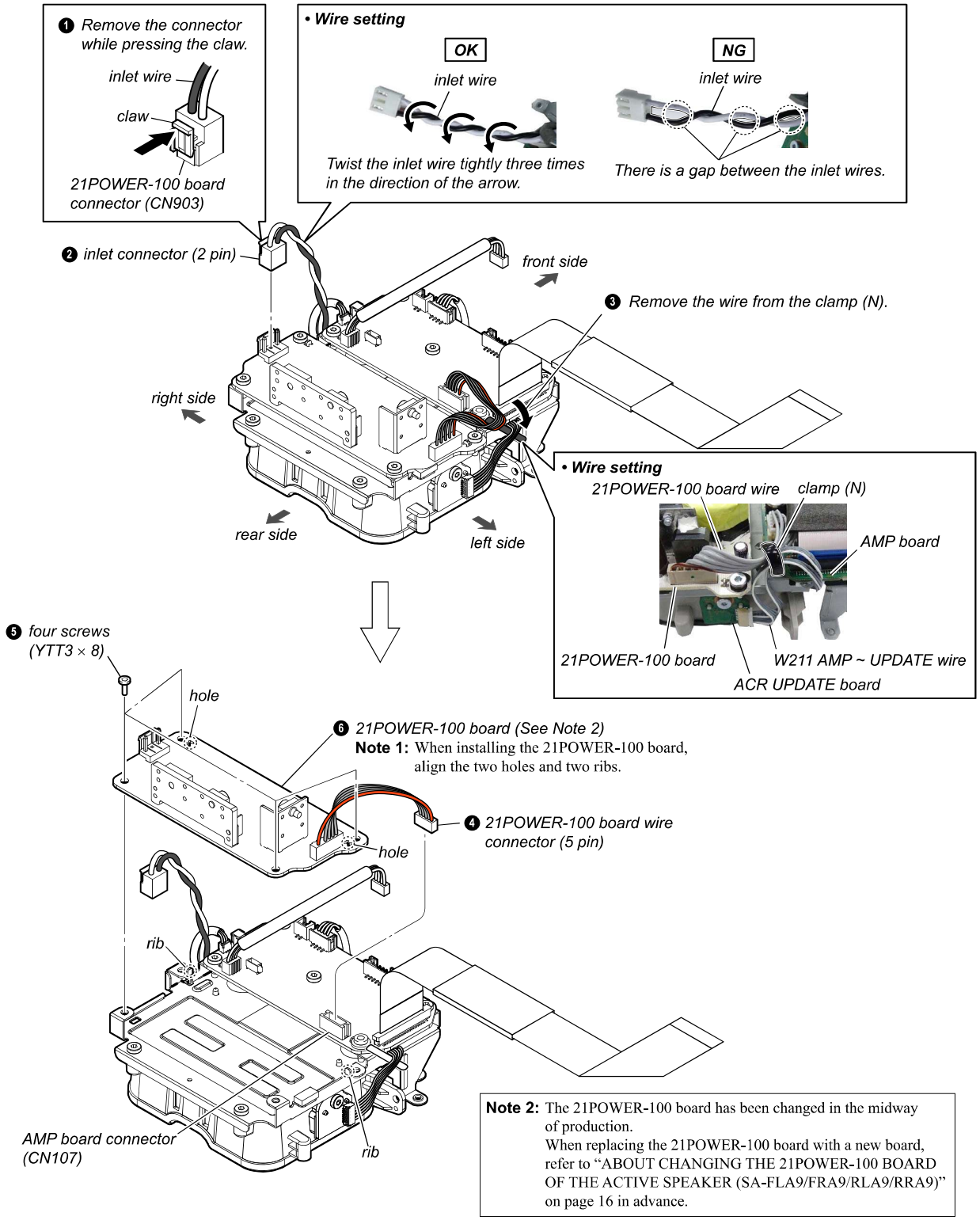
2-12. JACK BOARD (SA-FLA9/FRA9/RLA9/RRA9)



2-13. INLET (SA-FLA9/FRA9/RLA9/RRA9)

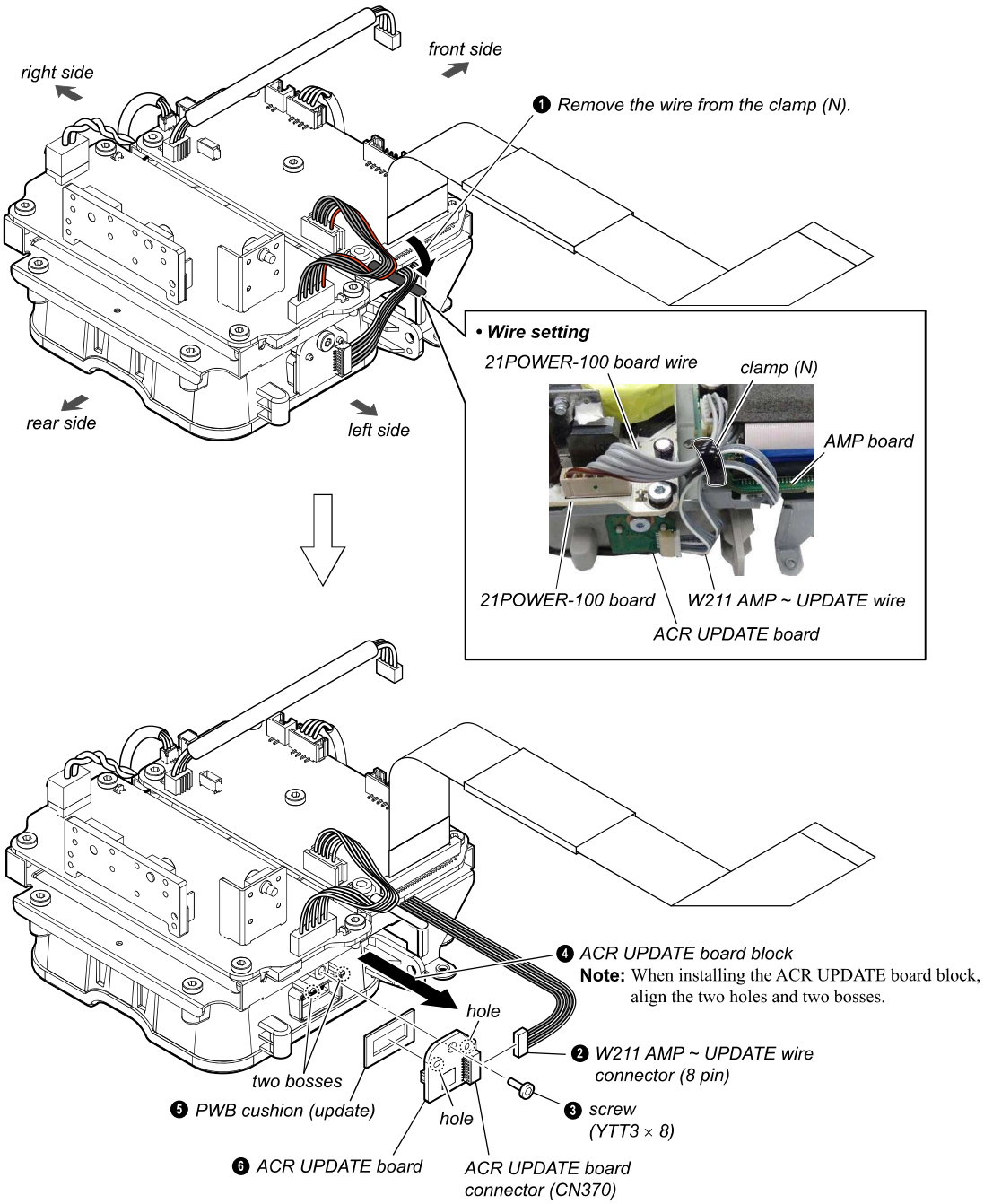


2-14. 21POWER-100 BOARD (SA-FLA9/FRA9/RLA9/RRA9)

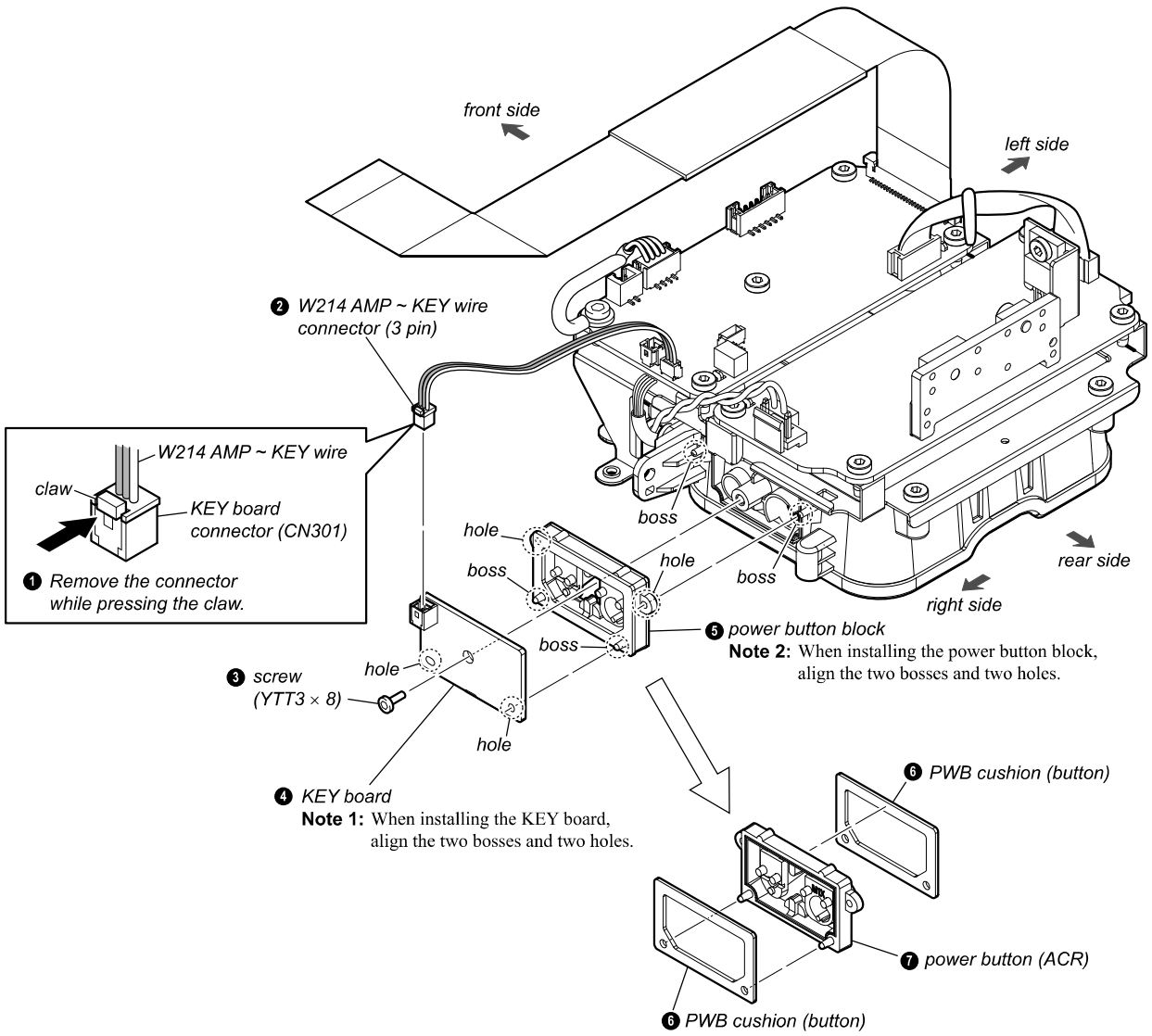


Note 2: The 21POWER-100 board has been changed in the midway of production.
When replacing the 21POWER-100 board with a new board, refer to "ABOUT CHANGING THE 21POWER-100 BOARD OF THE ACTIVE SPEAKER (SA-FLA9/FRA9/RLA9/RRA9)" on page 16 in advance.

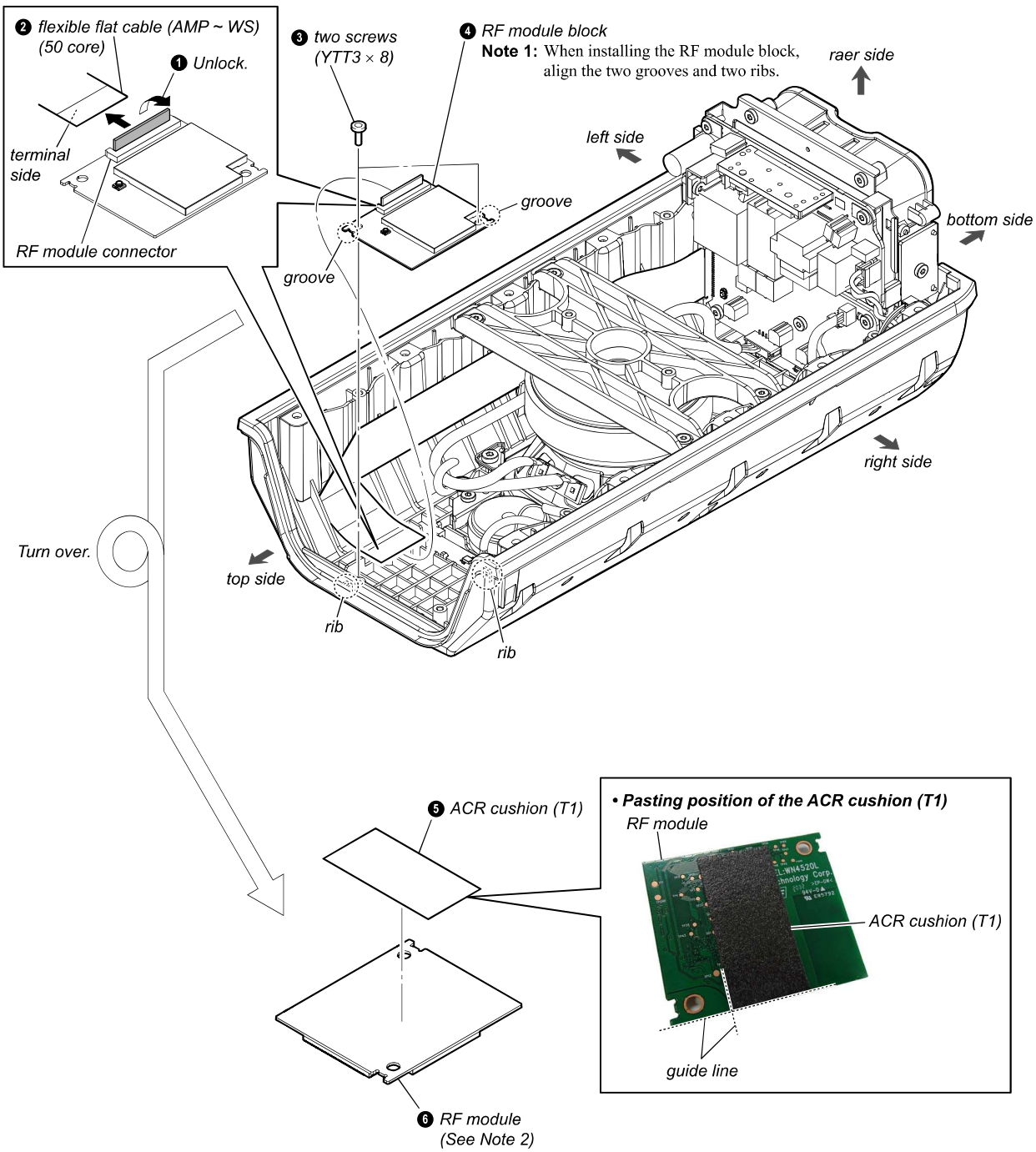
2-15. ACR UPDATE BOARD (SA-FLA9/FRA9/RLA9/RRA9)



2-16. KEY BOARD, POWER BUTTON (ACR) (SA-FLA9/FRA9/RLA9/RRA9)

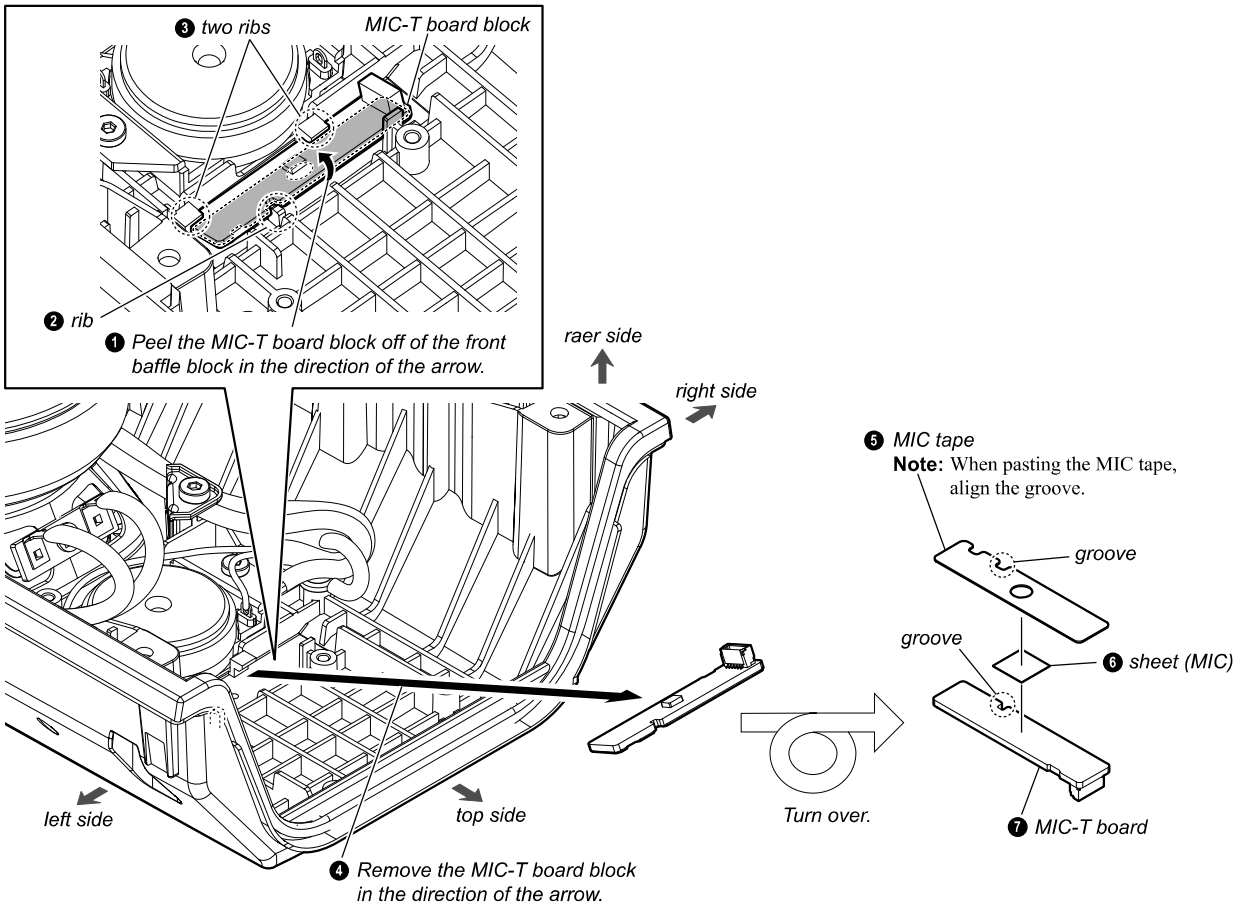


2-17. RF MODULE (SA-FLA9/FRA9/RLA9/RRA9)

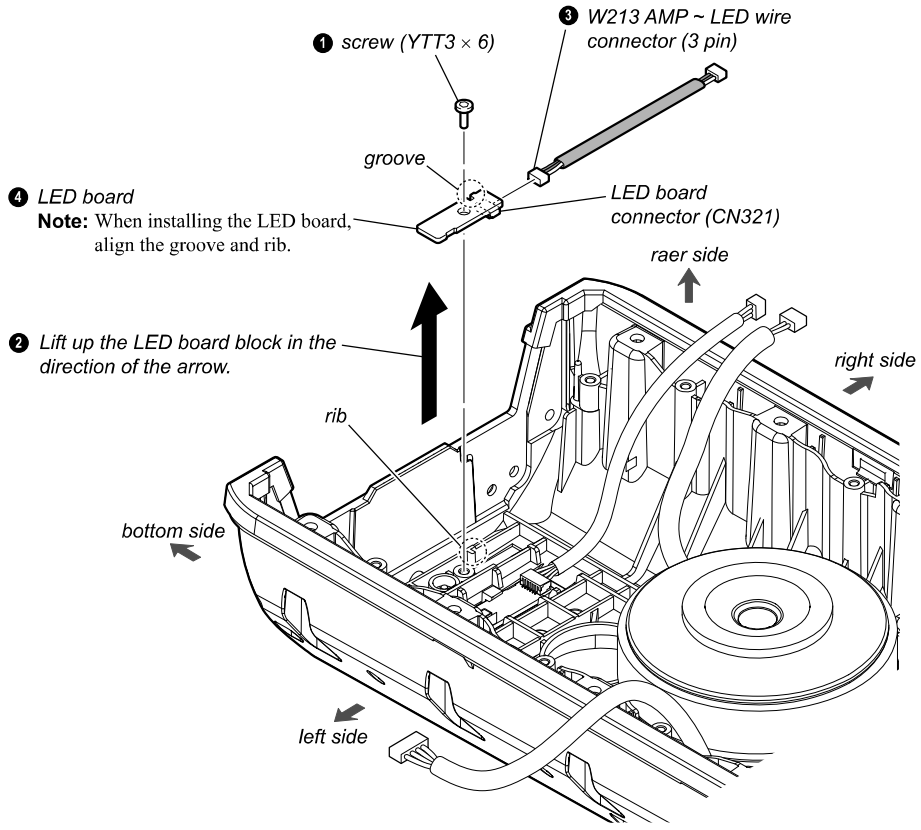


Note 2: When the RF module is replaced with a new part, after assembly, turn the power on and check that the control box and active speaker can be connected automatically.

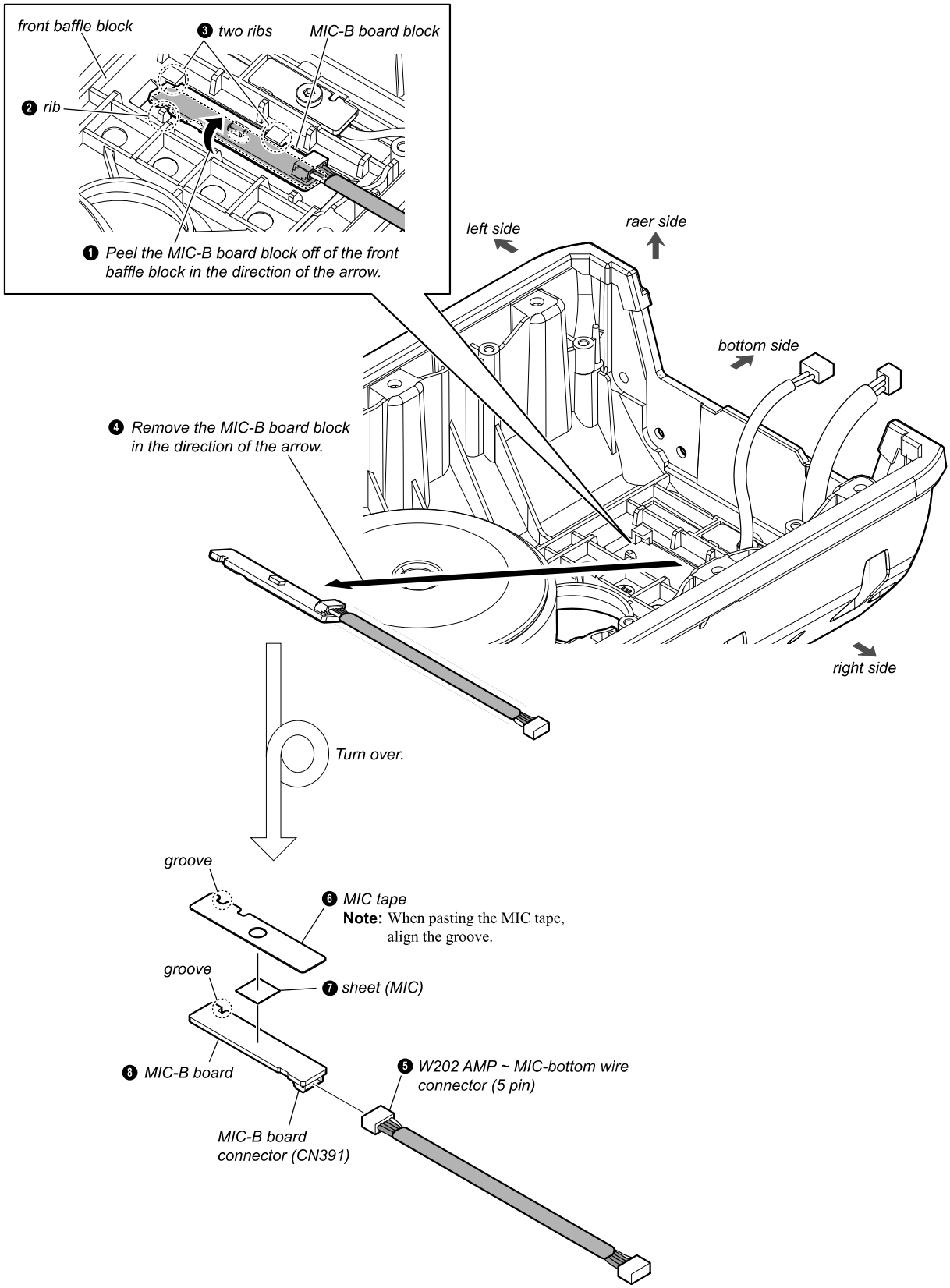
2-18. MIC-T BOARD (SA-FLA9/FRA9/RLA9/RRA9)



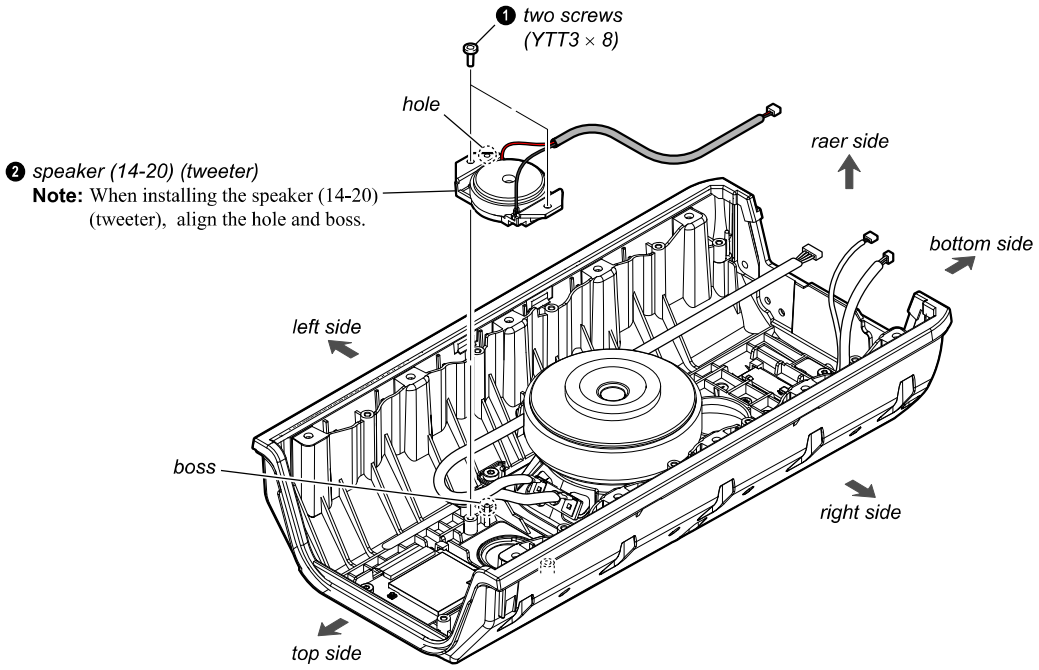
2-19. LED BOARD (SA-FLA9/FRA9/RLA9/RRA9)



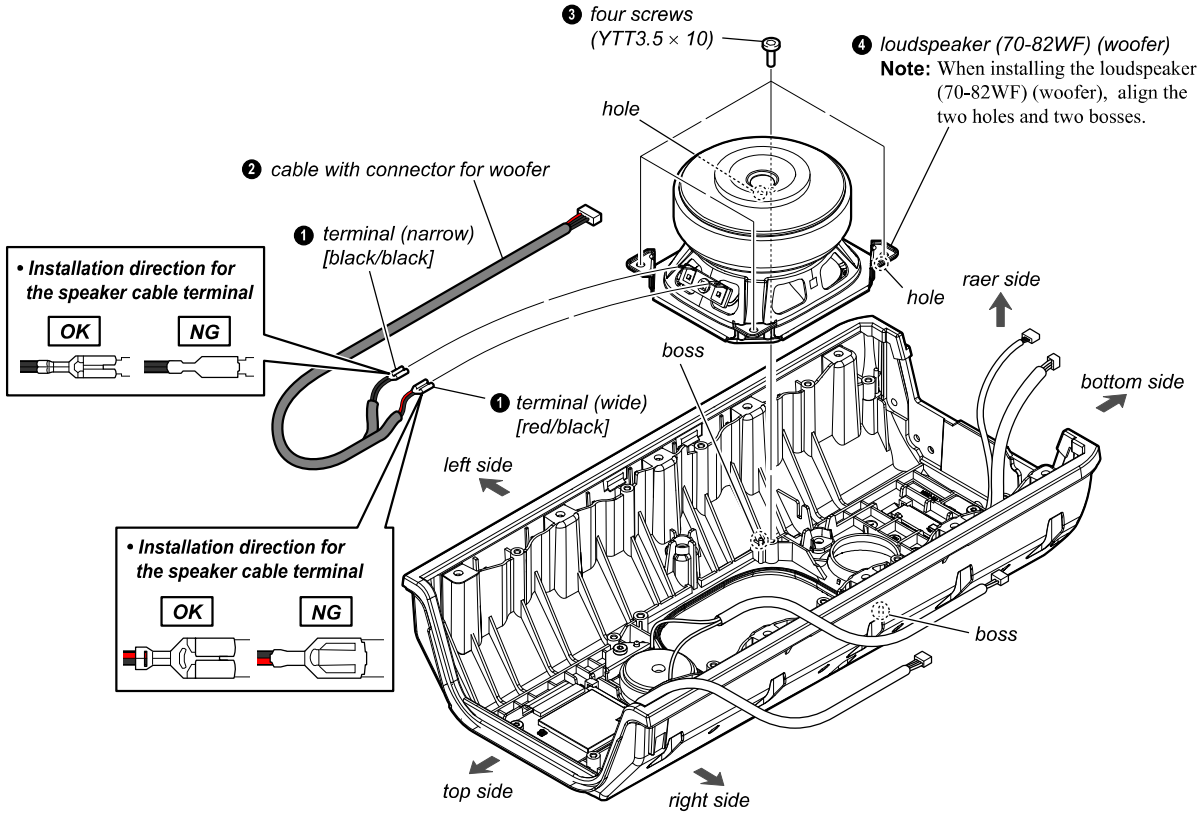
2-20. MIC-B BOARD (SA-FLA9/FRA9/RLA9/RRA9)



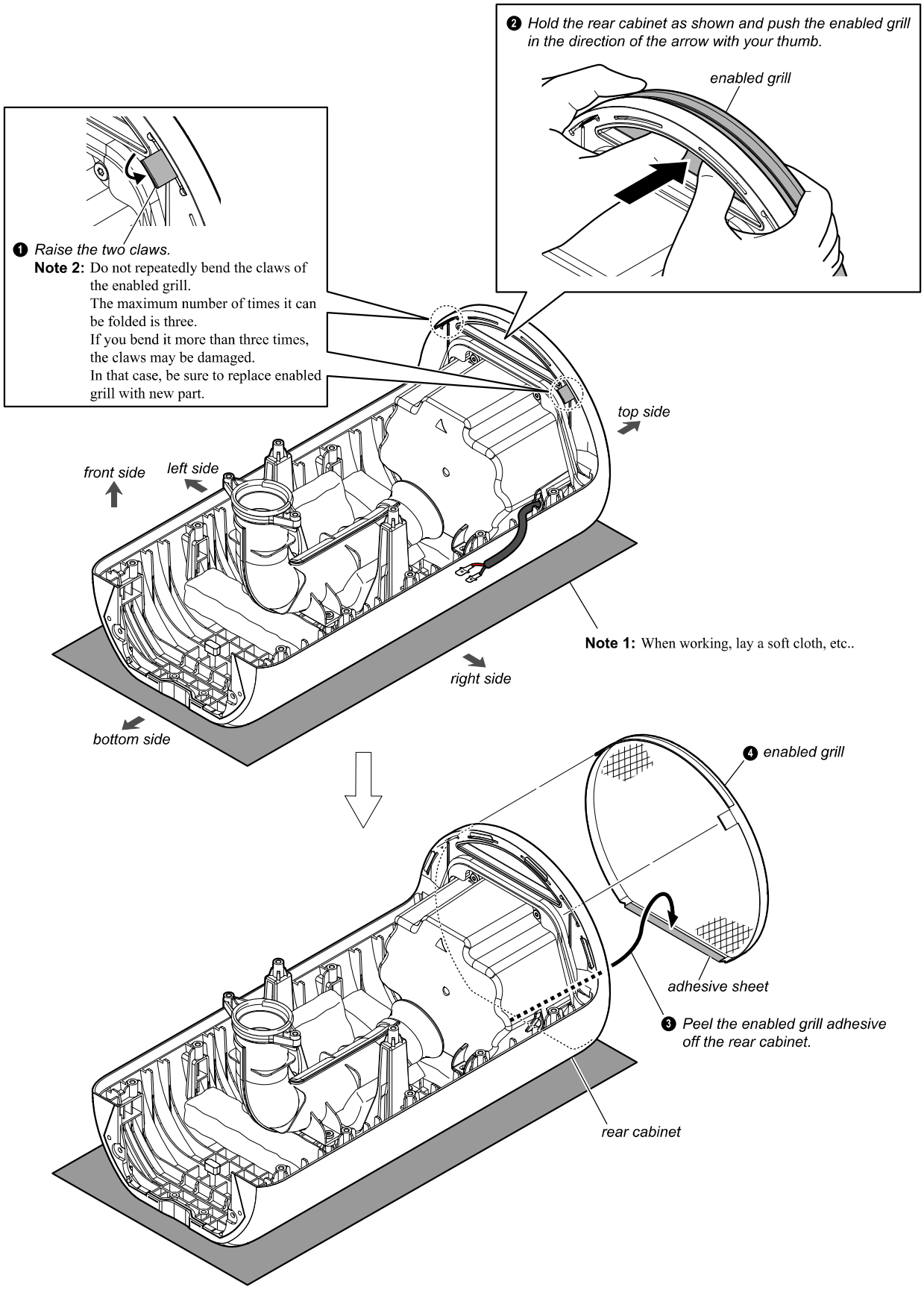
2-21. SPEAKER (14-20) (TWEETER) (SA-FLA9/FRA9/RLA9/RRA9)



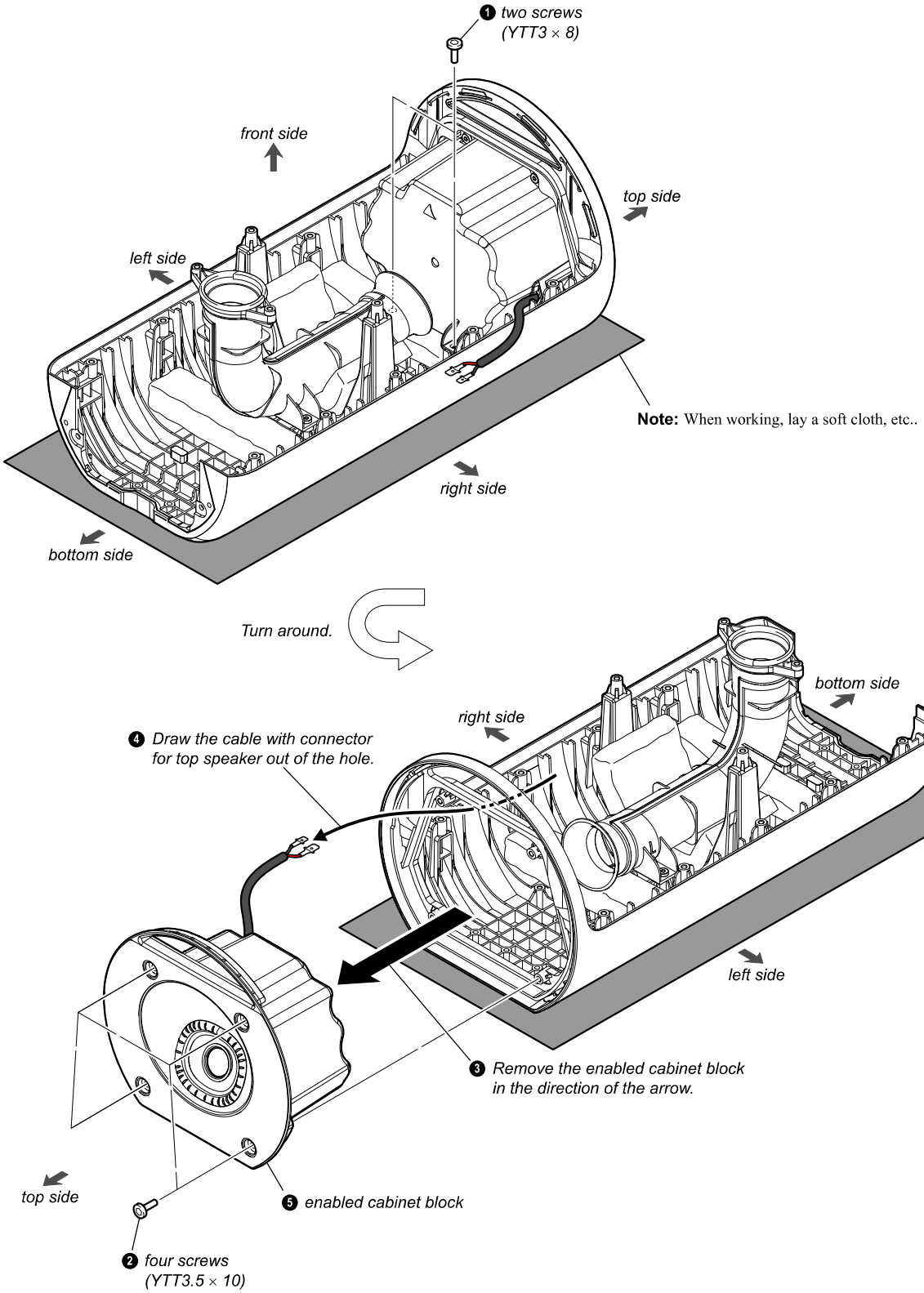
2-22. LOUDSPEAKER (70-82WF) (WOOFER) (SA-FLA9/FRA9/RLA9/RRA9)



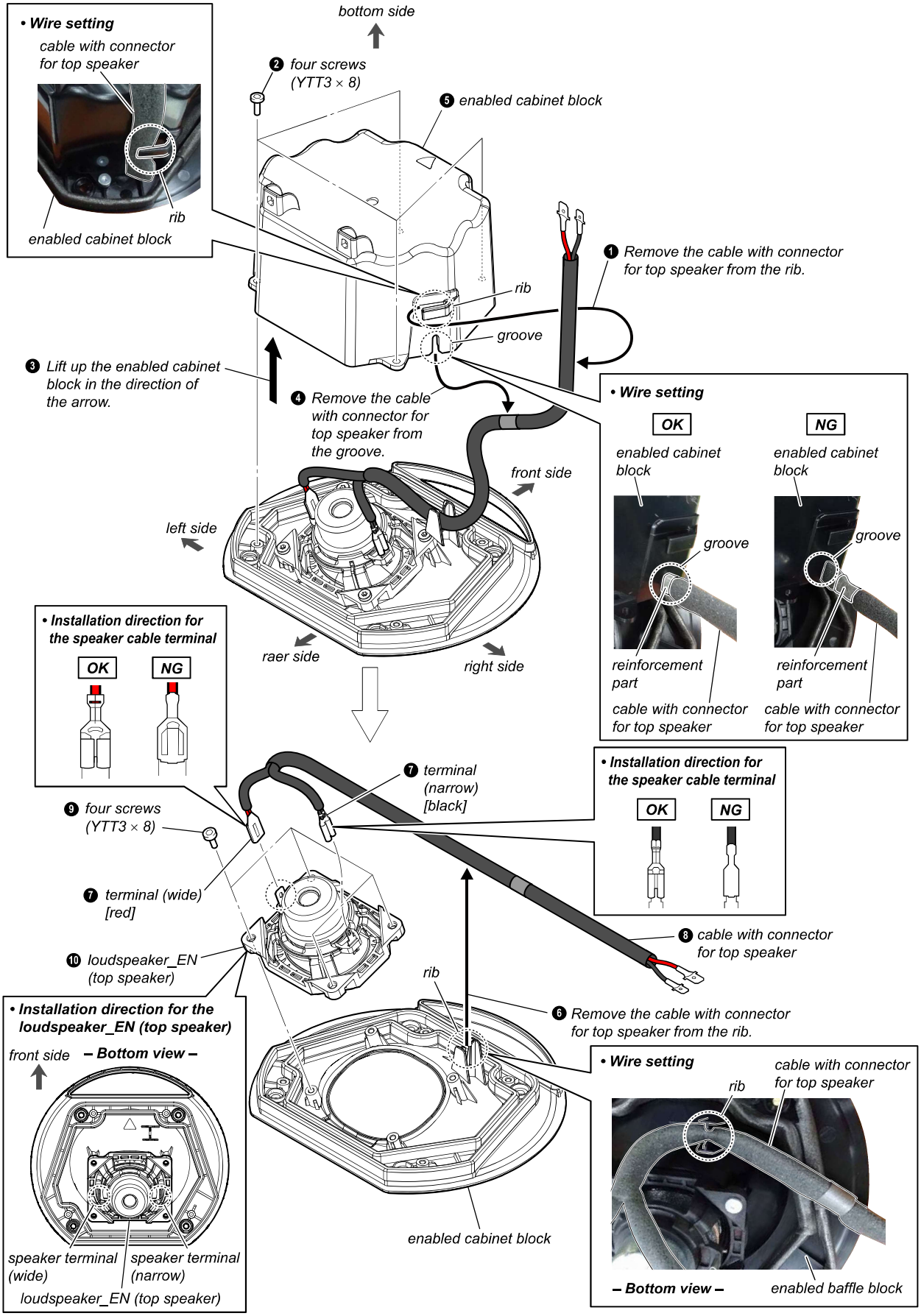
2-23. ENABLED GRILL (SA-FLA9/FRA9/RLA9/RRA9)



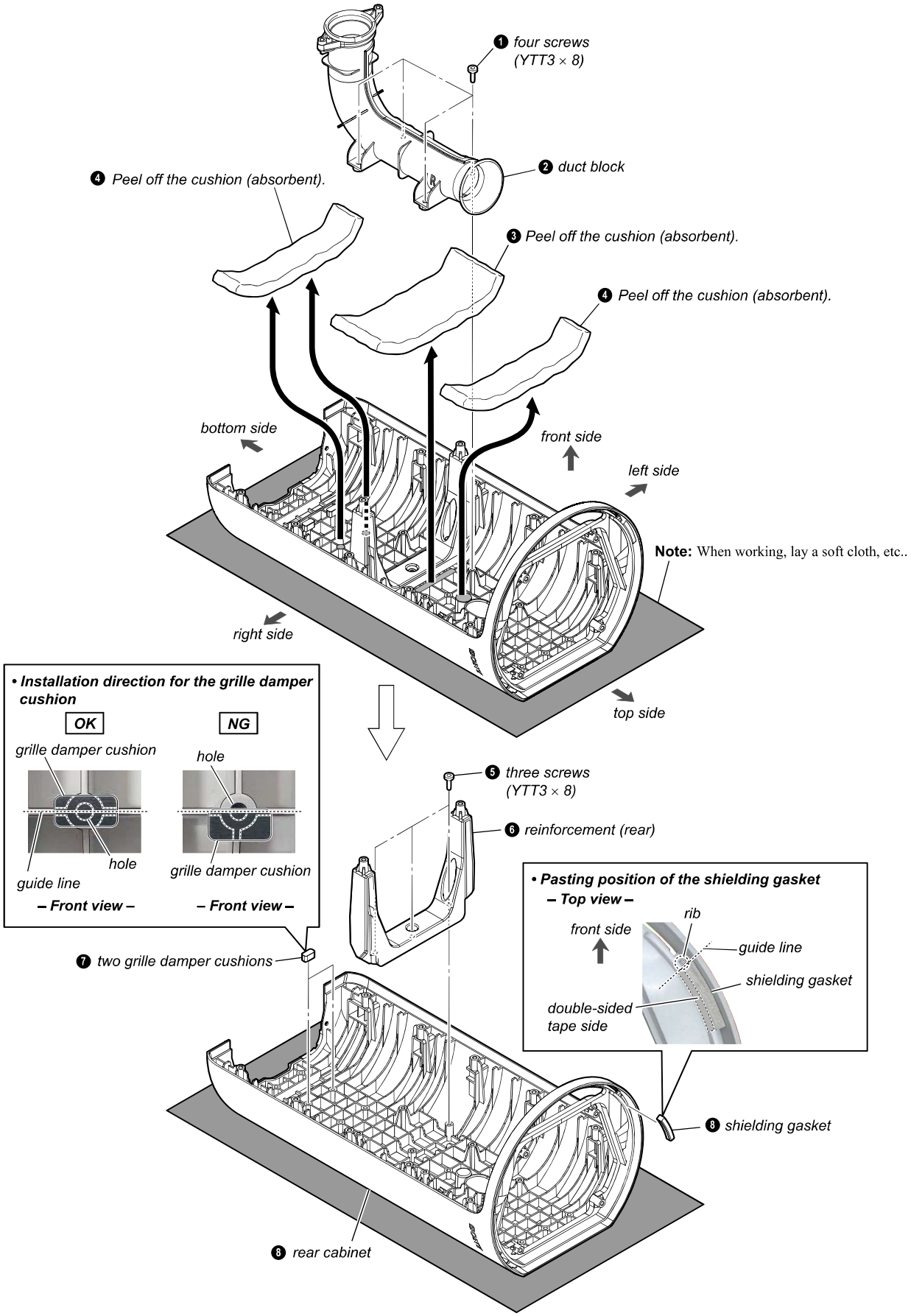
2-24. ENABLED CABINET BLOCK (SA-FLA9/FRA9/RLA9/RRA9)



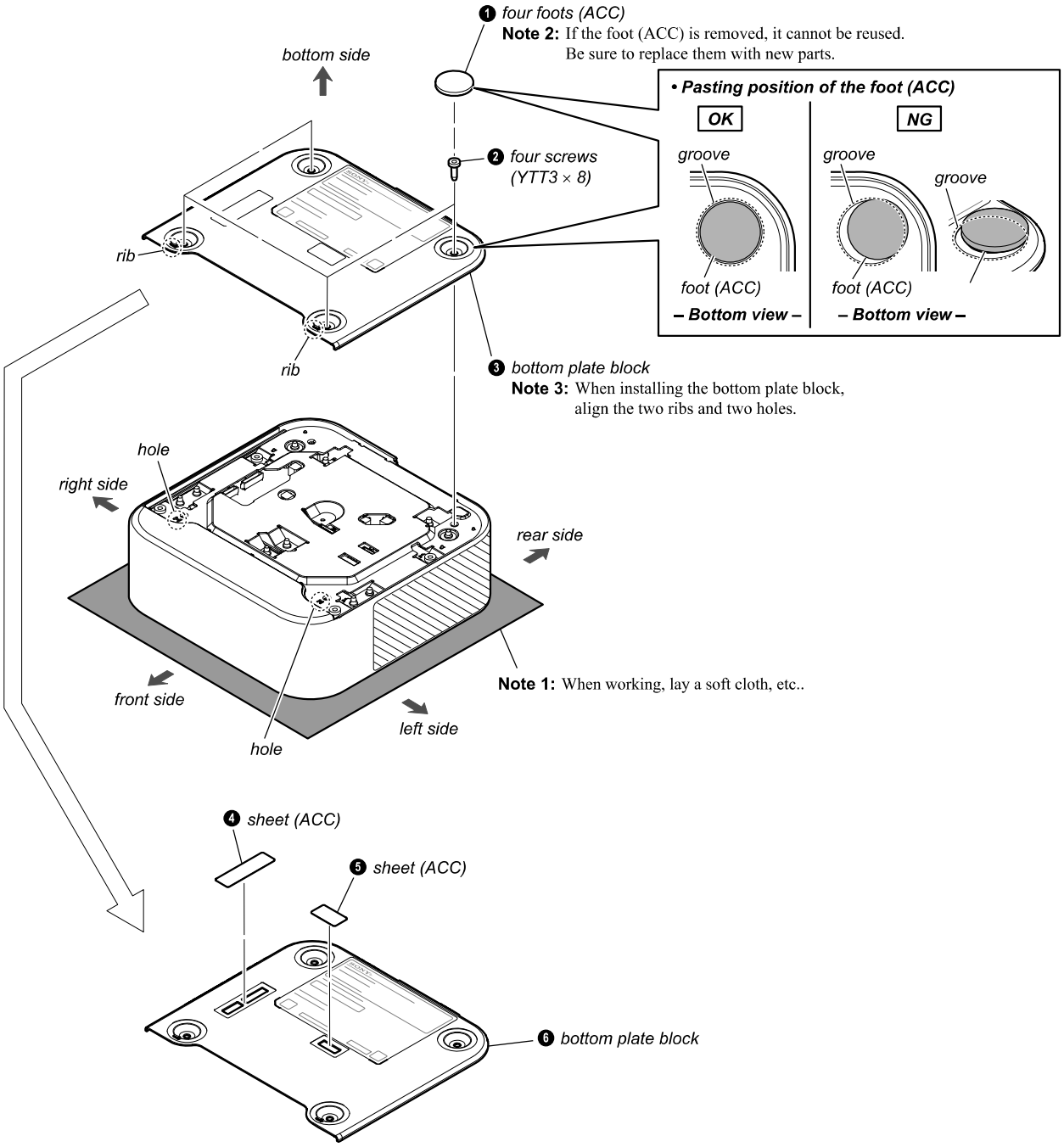
2-25. LOUDSPEAKER_EN (TOP SPEAKER) (SA-FLA9/FRA9/RLA9/RRA9)



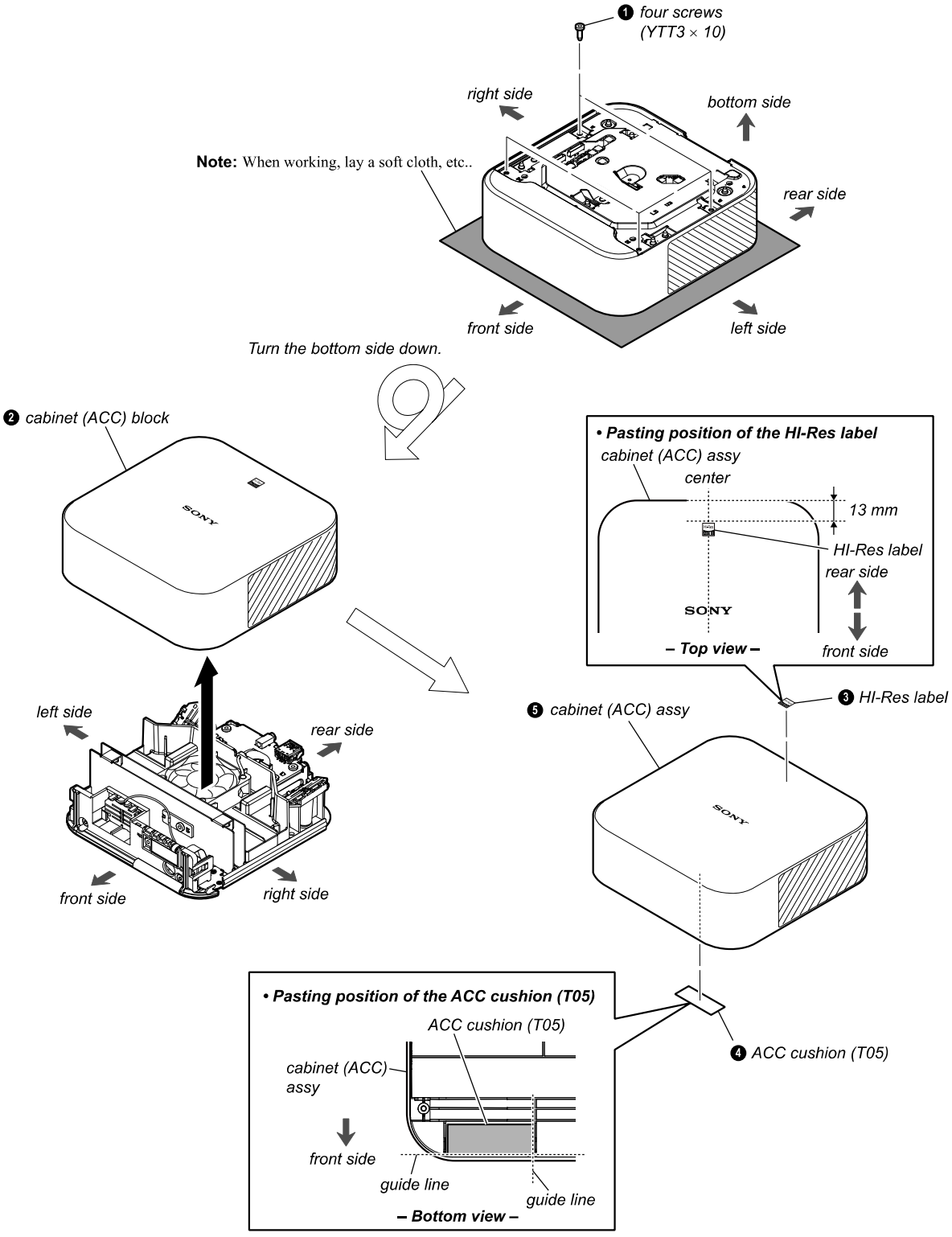
2-26. REAR CABINET (SA-FLA9/FRA9/RLA9/RRA9)



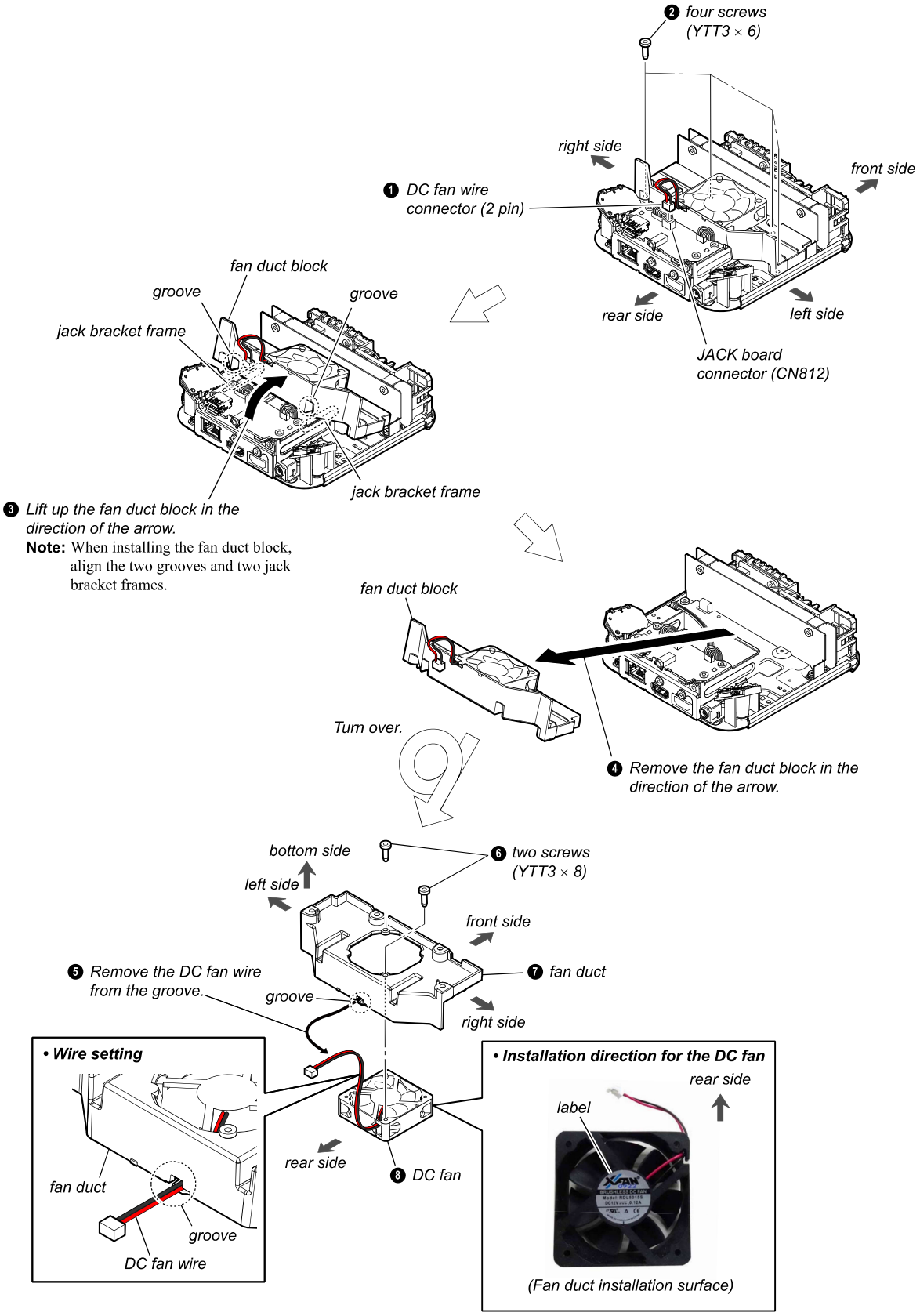
2-27. BOTTOM PLATE BLOCK (TMR-A9WT)



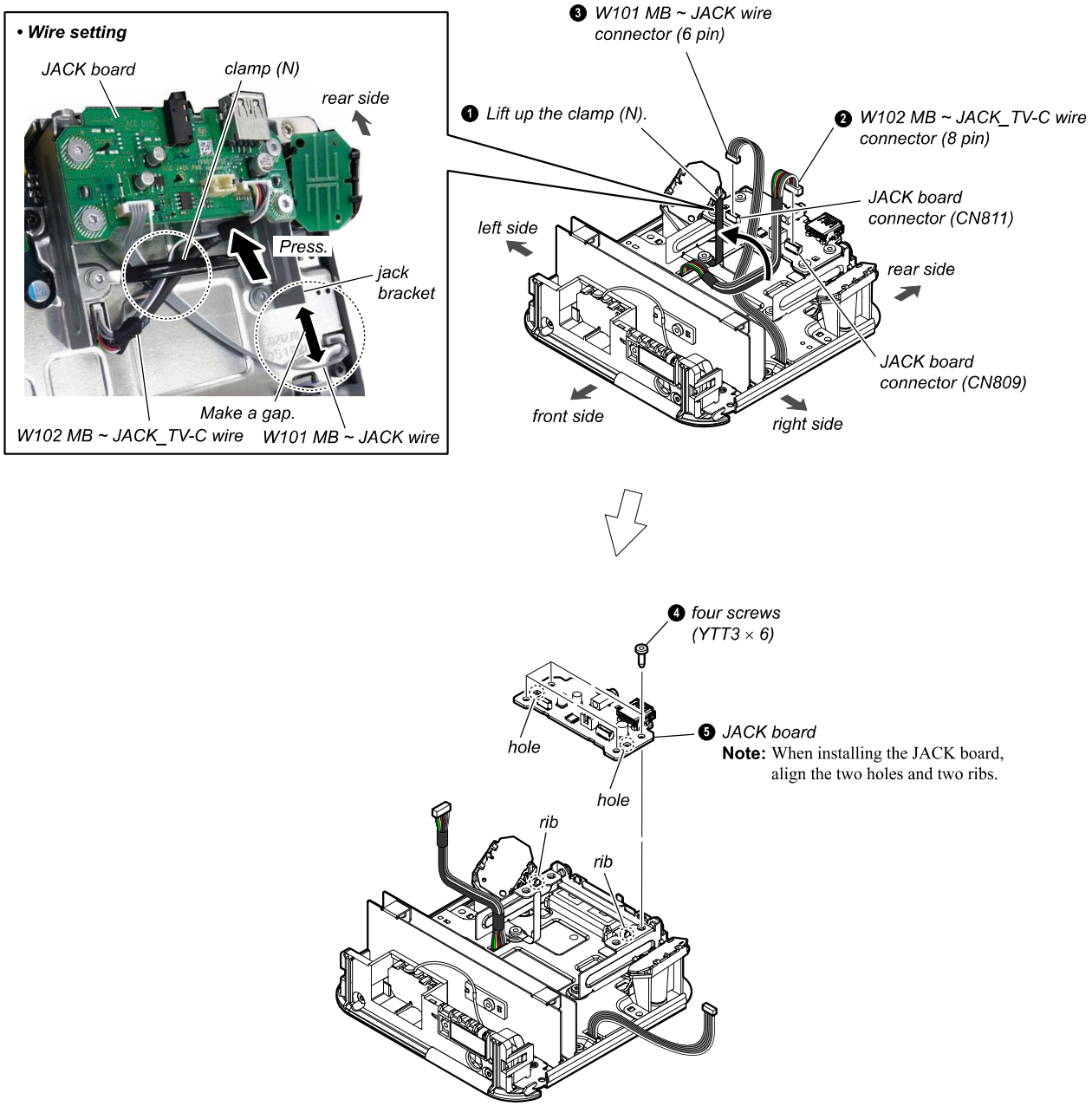
2-28. CABINET (ACC) ASSY (TMR-A9WT)



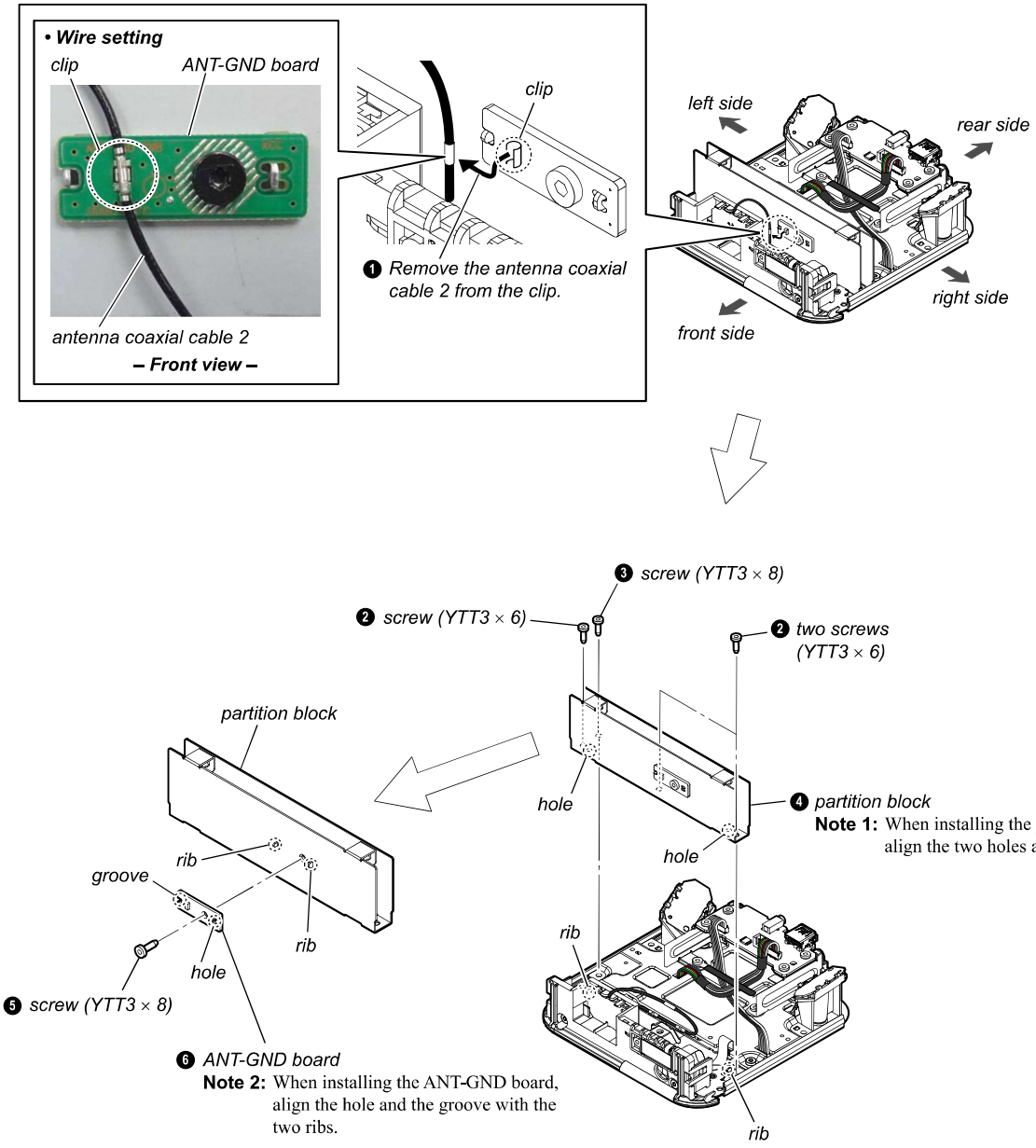
2-29. DC FAN (TMR-A9WT)



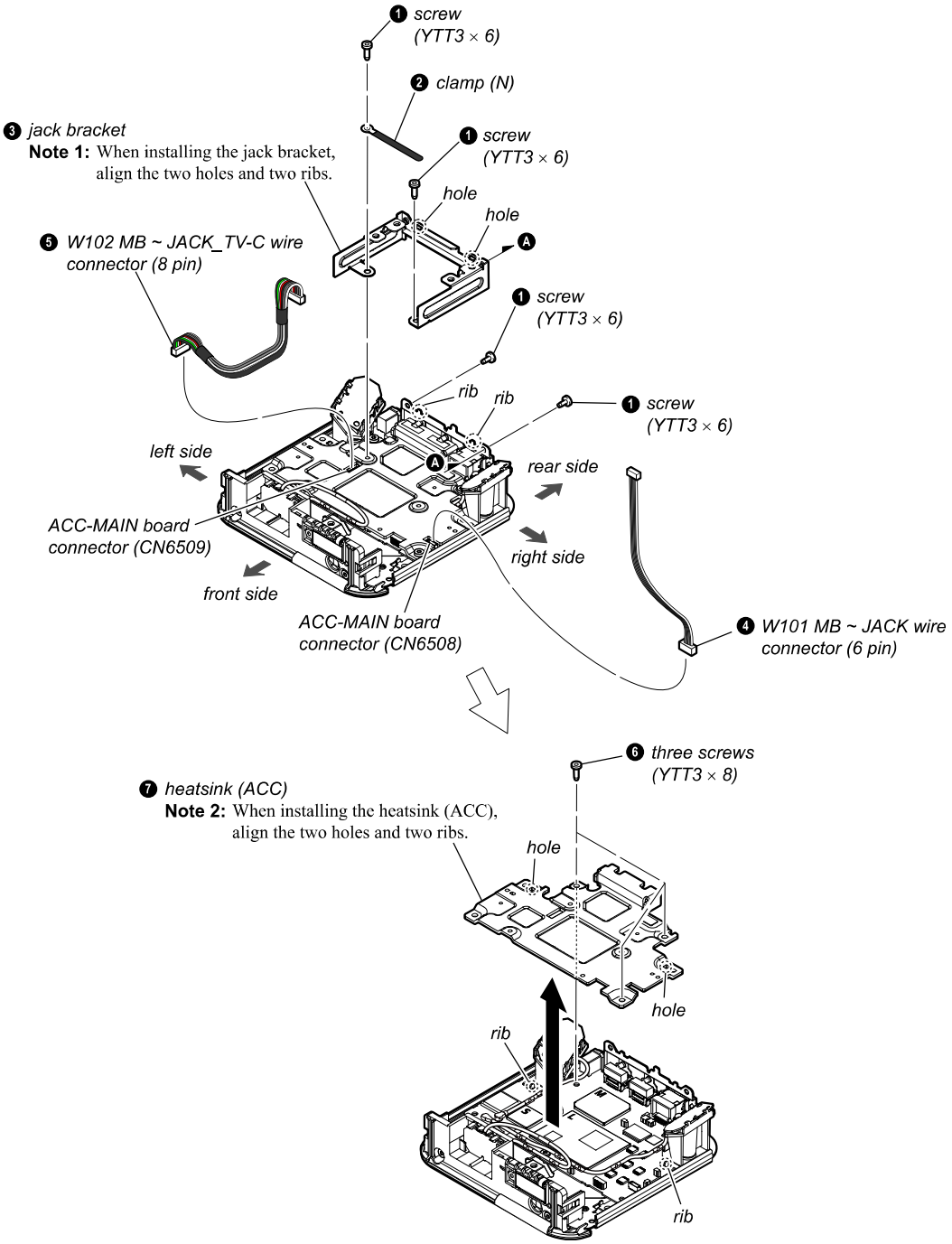
2-30. JACK BOARD (TMR-A9WT)



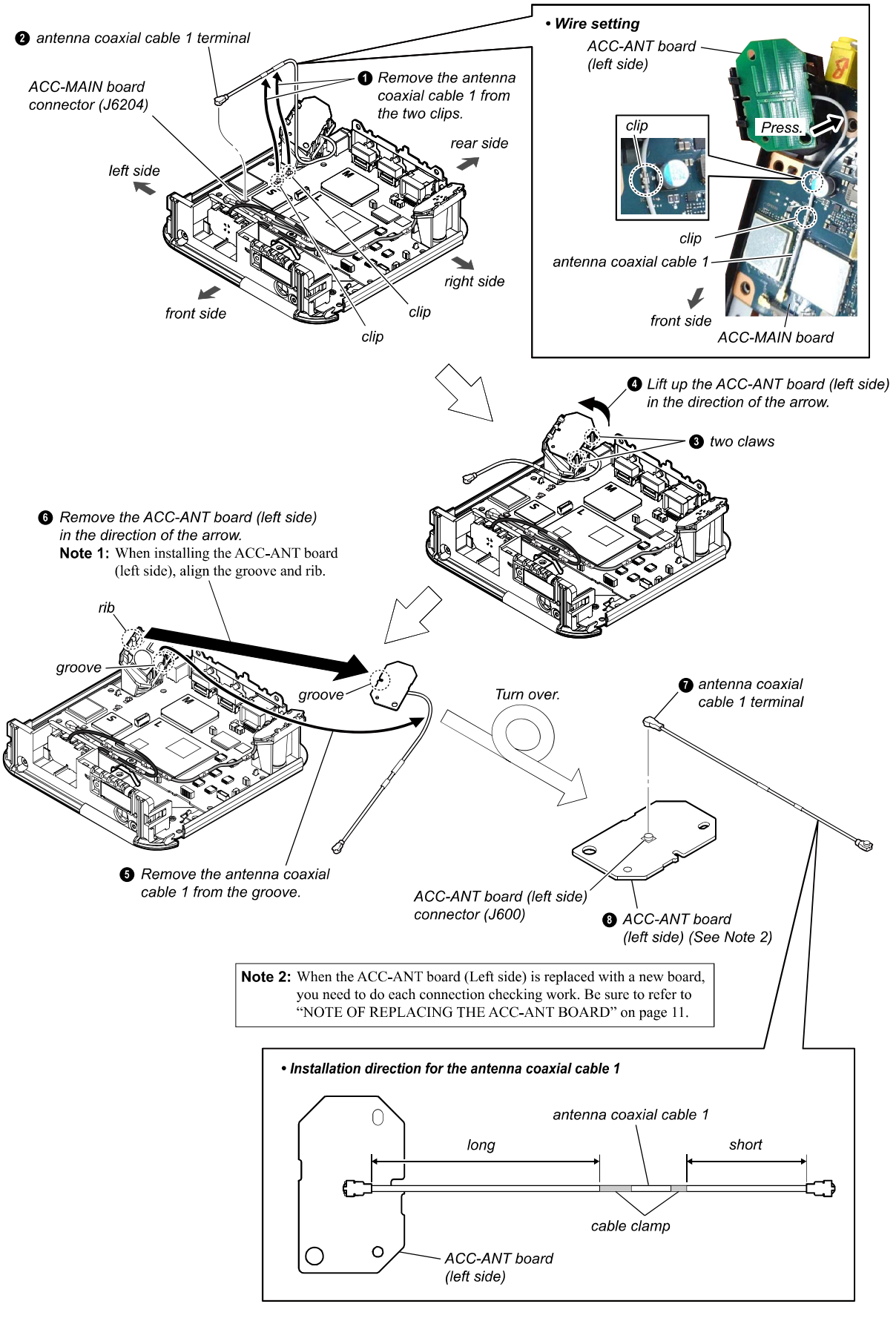
2-31. PARTITION BLOCK, ANT-GND BOARD (TMR-A9WT)



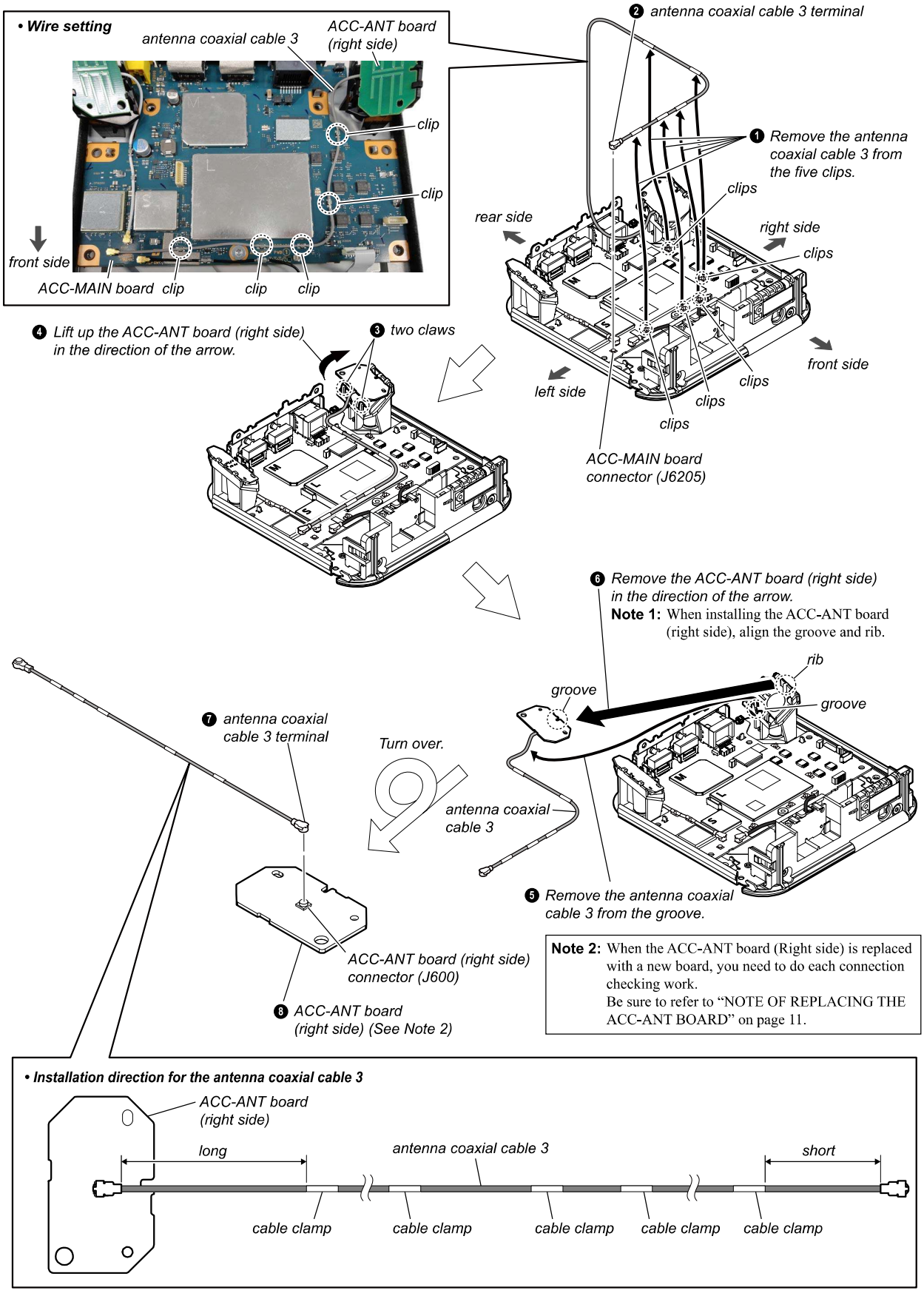
2-32. HEATSINK (ACC) (TMR-A9WT)



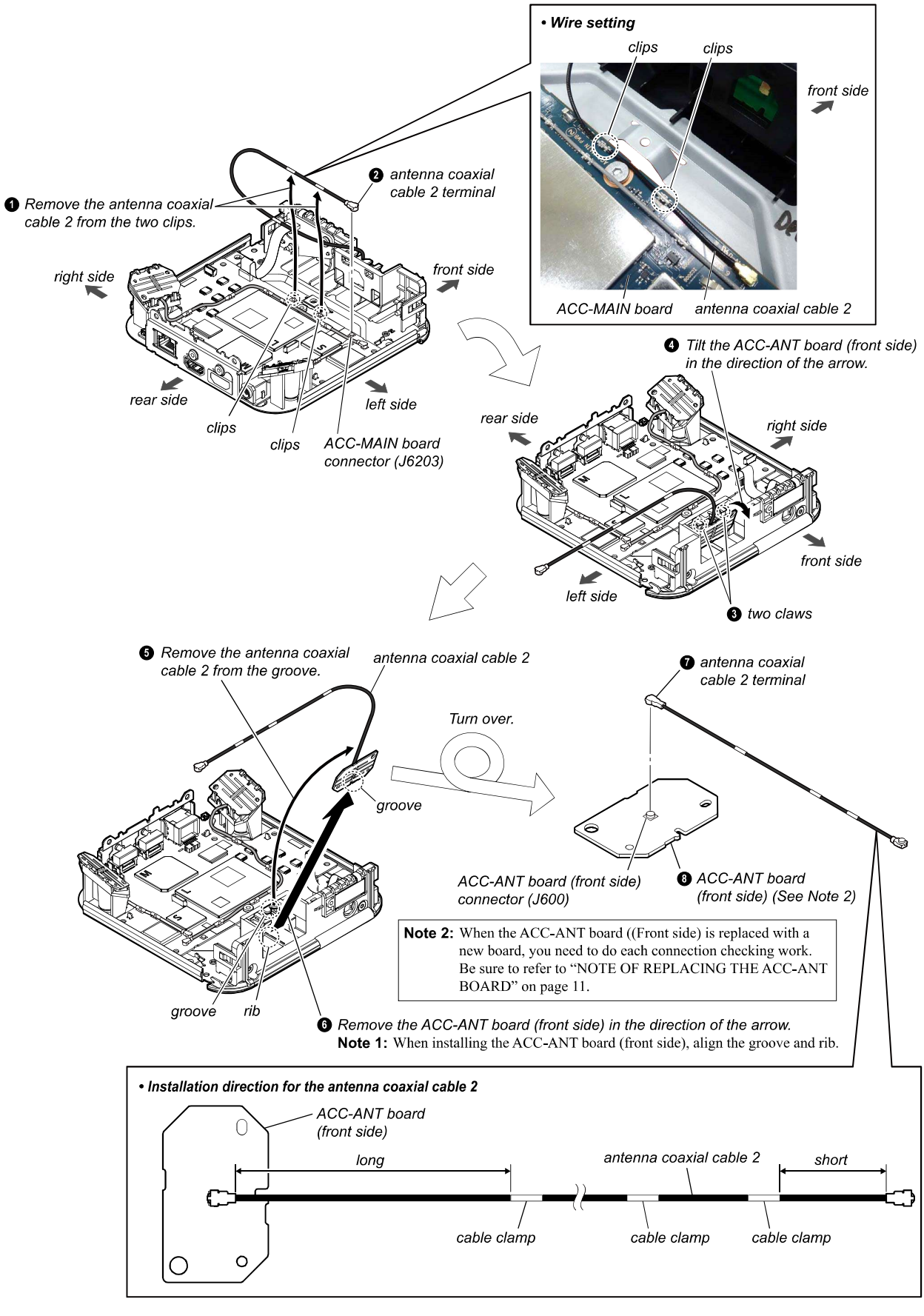
2-33. ACC-ANT BOARD (LEFT SIDE) (TMR-A9WT)



2-34. ACC-ANT BOARD (RIGHT SIDE) (TMR-A9WT)

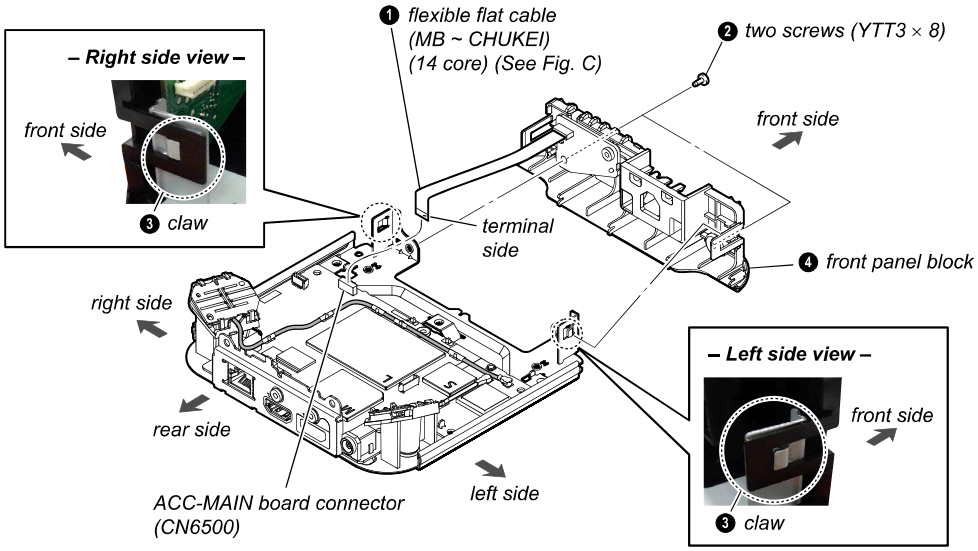


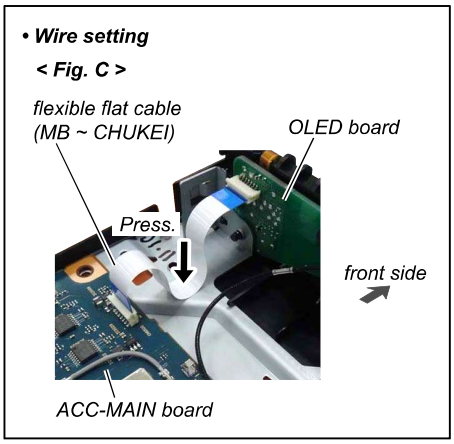
2-35. ACC-ANT BOARD (FRONT SIDE) (TMR-A9WT)



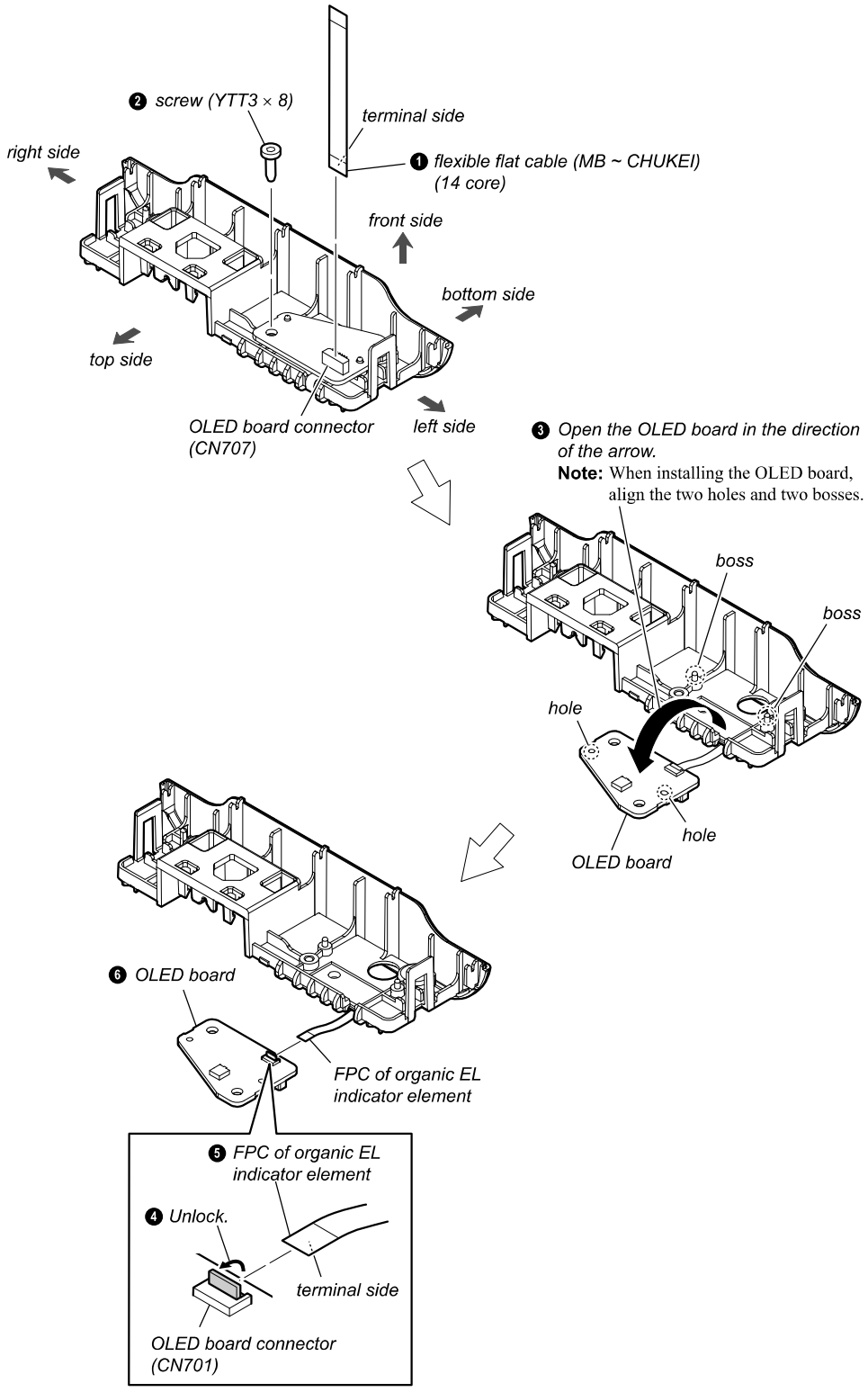
Note 2: When the ACC-ANT board ((Front side) is replaced with a new board, you need to do each connection checking work. Be sure to refer to "NOTE OF REPLACING THE ACC-ANT BOARD" on page 11.

2-36. FRONT PANEL BLOCK (TMR-A9WT)

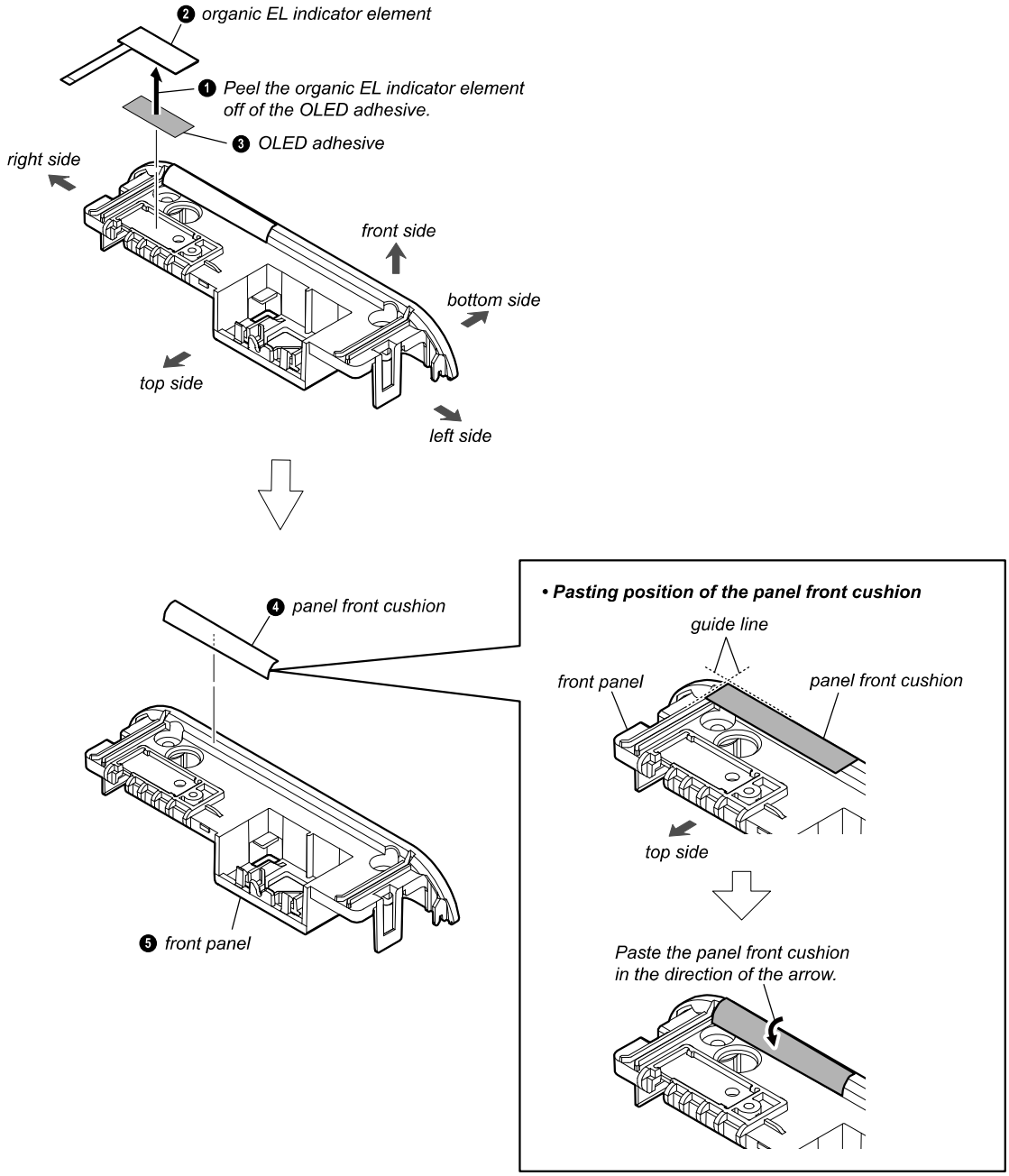




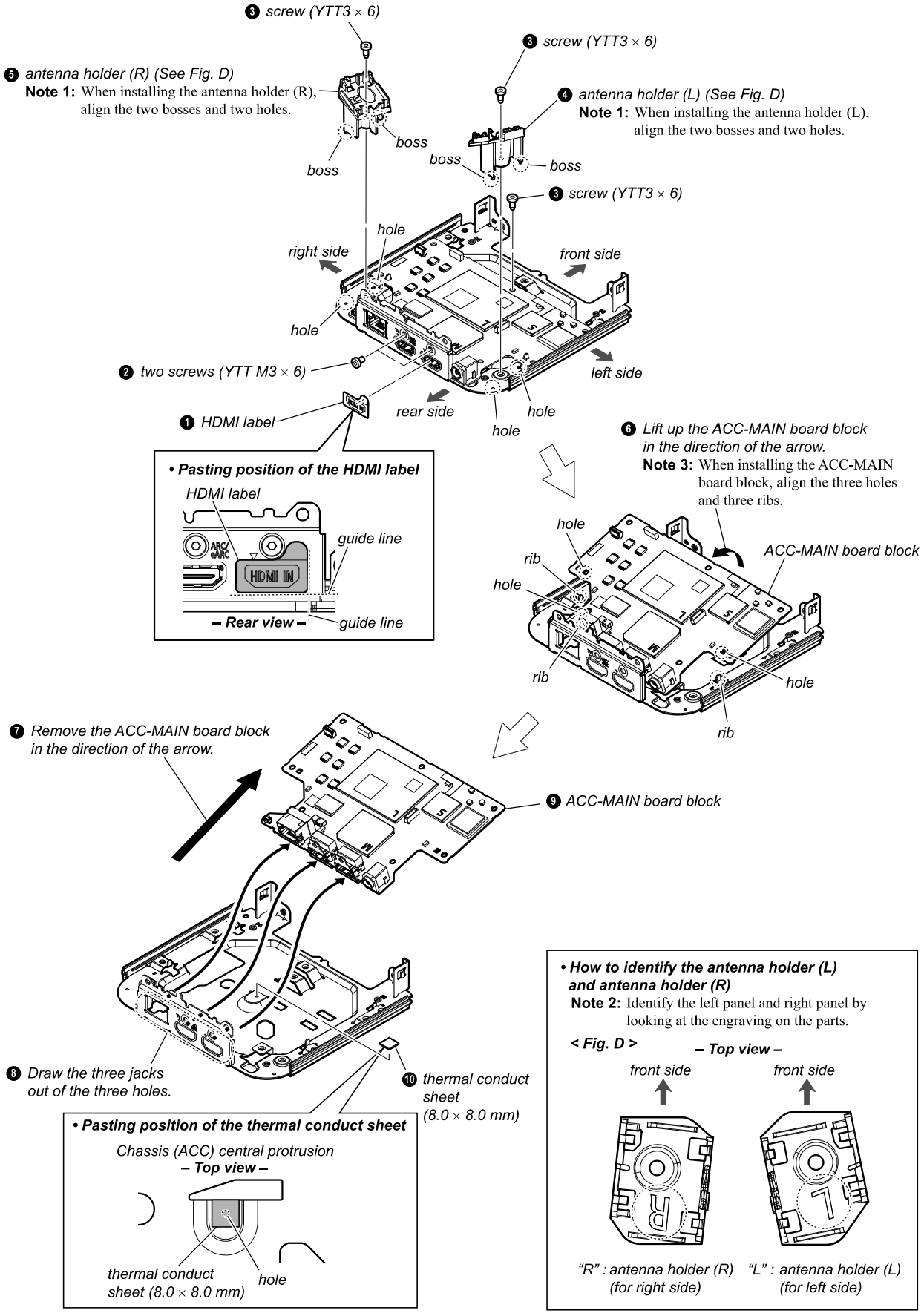
2-37. OLED BOARD (TMR-A9WT)



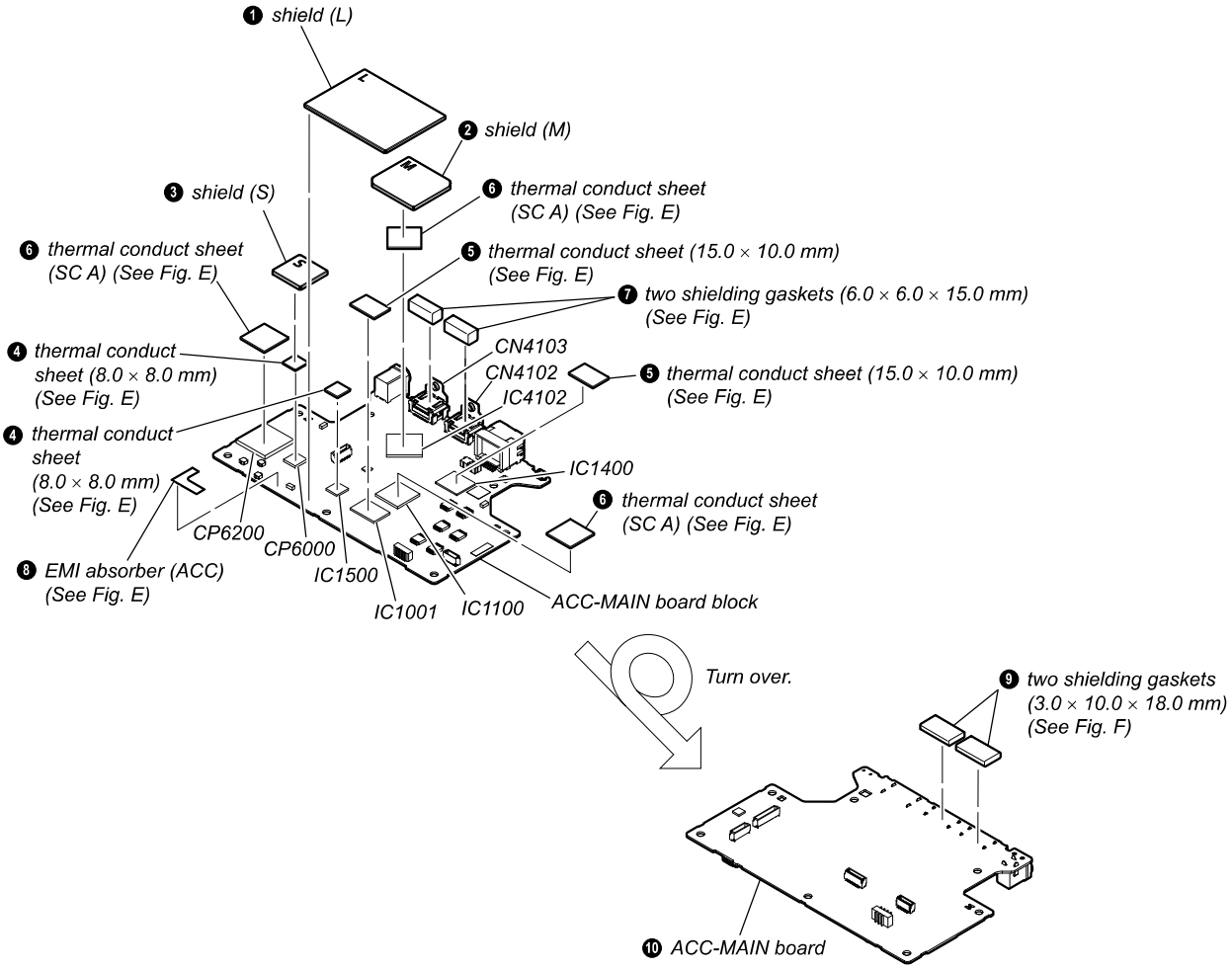
2-38. ORGANIC EL INDICATOR ELEMENT, FRONT PANEL (TMR-A9WT)

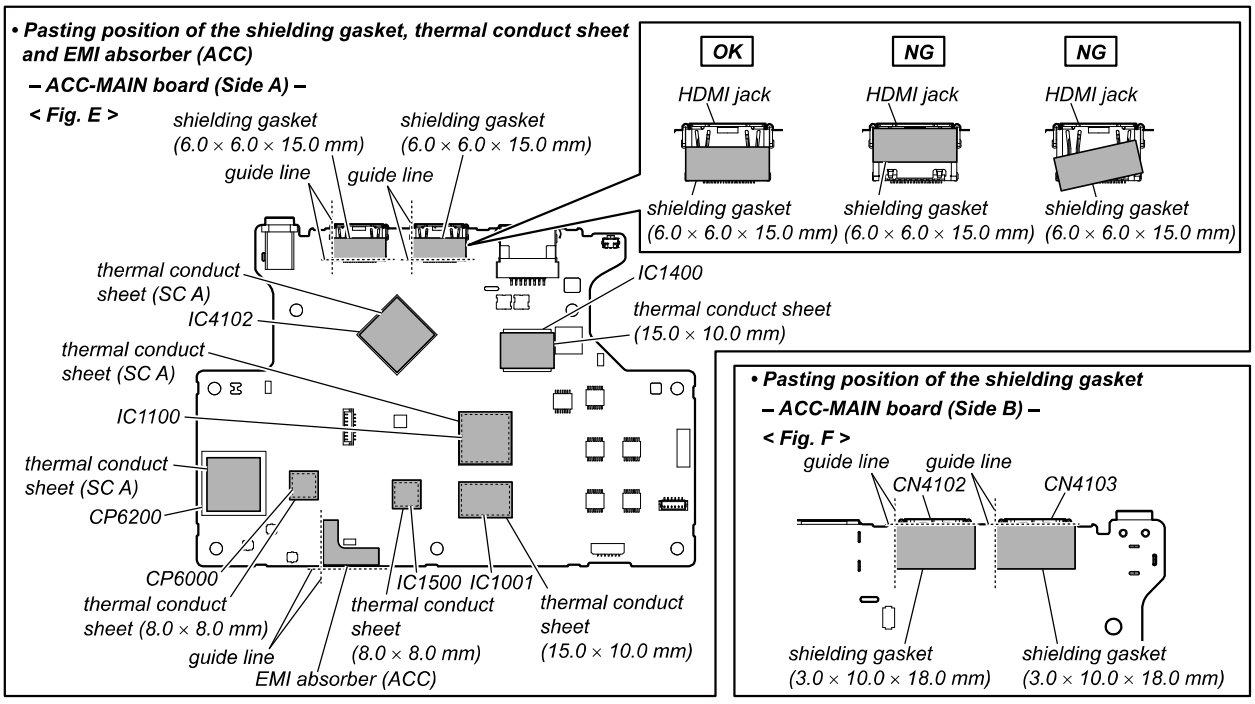


2-39. ACC-MAIN BOARD BLOCK, THERMAL CONDUCT SHEET (TMR-A9WT)



2-40. ACC-MAIN BOARD (TMR-A9WT)





SECTION 3
TROUBLESHOOTING

1. Power does not turn on (Control box)

Problem	Confirmation/solution
"HELLO" is not displayed in the front panel display even if AC adaptor is plugged to an AC outlet.	Check that the output voltage of the AC adaptor has an 12V.
"HELLO" in the front panel display disappears and the device does not turn the power on.	The ACC-MAIN board may be defective. (It might occur if the AC adaptor is unplugged during an update)
Control box does not turn the power on even if the [⏻] button is pressed (When pressing the [⏻] button on the remote control, it turns the power on).	Check all cables inside the control box and reconnect.
Control box does not turn the power on even if the [⏻] button on the remote control is pressed.	Check all cables inside the control box and reconnect.

2. Power does not turn on (Active Speaker)

Problem	Confirmation/solution
The power indicator does not light up even if power cord is plugged to an AC outlet.	Check that 15V (in standby status) is output from the 21POWER-100 board. If it is not output, check the status of the fuse (F901), and if it is blown, replace the 12POWER-100 board. Check that the 21POWER-100 board is switching work, and if it is not switching work, replace the 21POWER-100 board. (See Note) Check that the flexible flat cable between the RF module and the AMP board is not disconnected from the connector. Check that the cable connected to the LED board is not disconnected.

3. Sound is not outputted

Problem	Confirmation/solution
The each unit turns the power on and input can be selected, but there is an active speaker that does not link.	Manual link all four active speakers.
The each unit turns the power on and can be linked, but there is an active speaker that does not output sound.	Check that the flexible flat cable between the RF module inside the active speaker and the AMP board is not disconnected from the connector. Check that the speaker cable inside the active speaker is not disconnected.
Sound is not outputted during eARC input.	Check if customer's TV is an eARC compatible TV. Check if it is connected to the eARC compatible terminal.
Cannot link, cannot connect via BLUETOOTH, or sound is not outputted while connected via BLUETOOTH	Make sure that the shield case on the ACC-MAIN board of the control box is installed correctly.
TV center sound is not outputted.	Check that the stereo mini plug cable is fully inserted. Insert the stereo mini plug cable into the control box, measure the GND and R-ch of the stereo mini plug with a tester without connecting the TV side, and check if around DC 6.7V is outputted. If there is no output around DC 6.7V, replace the JACK board of the control box.

4. Video is not outputted

Problem	Confirmation/solution
Nothing is displayed on the TV screen even if the [HOME] button on the remote control is pressed.	Check the connection status of the HDMI cable and check if there is a disconnection.

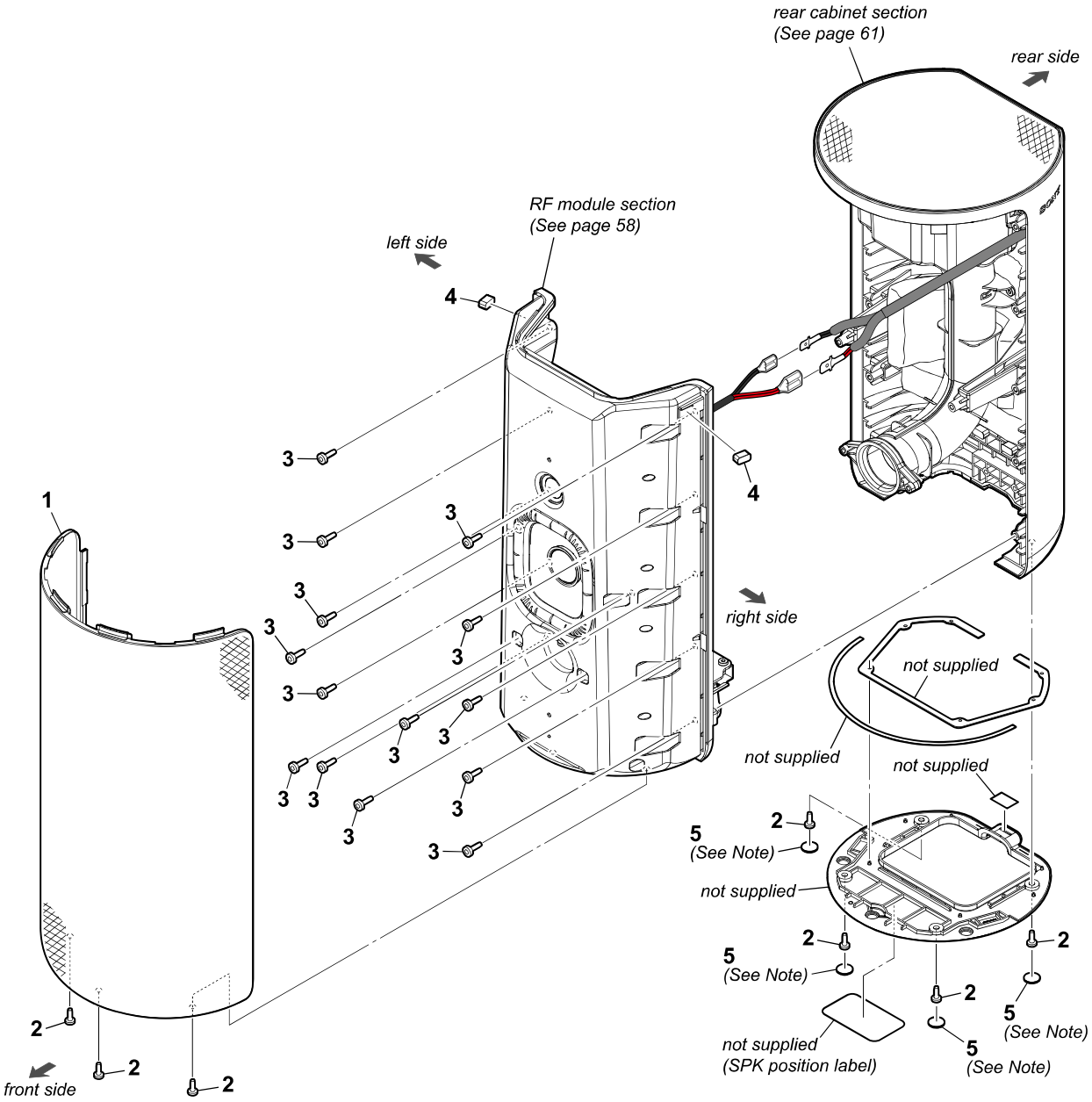
Note: The 21POWER-100 board has been changed in the midway of production. When replacing the 21POWER-100 board with a new board, refer to "ABOUT CHANGING THE 21POWER-100 BOARD OF THE ACTIVE SPEAKER (SA-FLA9/FRA9/RLA9/RRA9)" on page 16 in advance.

SECTION 4
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
- To remove the screws, you need a H2 size and H2.5 size hex screwdriver.
  For details on the driver, refer to "TOOLS" on page 15.

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

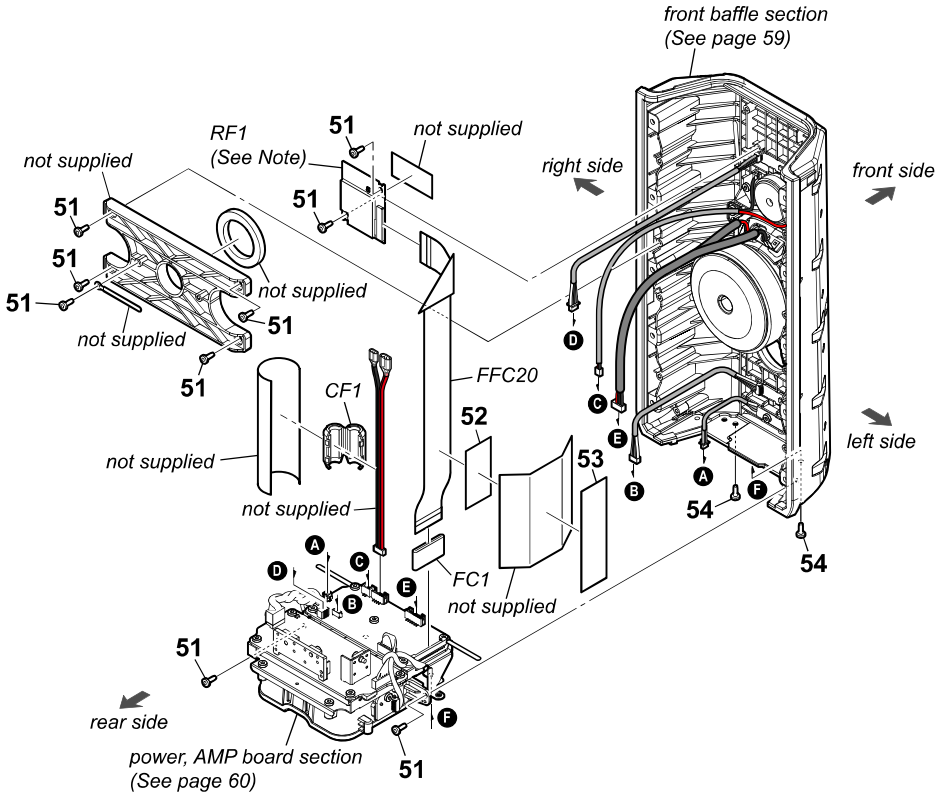
4-1. FRONT GRILLE SECTION (SA-FLA9/FRA9/RLA9/RRA9)



Note: If the foot (ACR) (Ref. No. 5) is removed, it cannot be reused. Be sure to replace them with new parts.

Ref. No.	Part No.	Description	Remark
1	A5035016A	GRILLE, FRONT (SERVICE) (with Grille cushion (SIDE_L), (SIDE_S), (TOP))	
2	502719511	SCREW YTT 3X8 (BLACK)	
3	502719311	SCREW YTT 3.5X10 (BLACK)	
4	502573001	CUSHION, GRILLE DAMPER	
5	502121501	FOOT (ACR) (See Note)	

4-2. RF MODULE SECTION (SA-FLA9/FRA9/RLA9/RRA9)

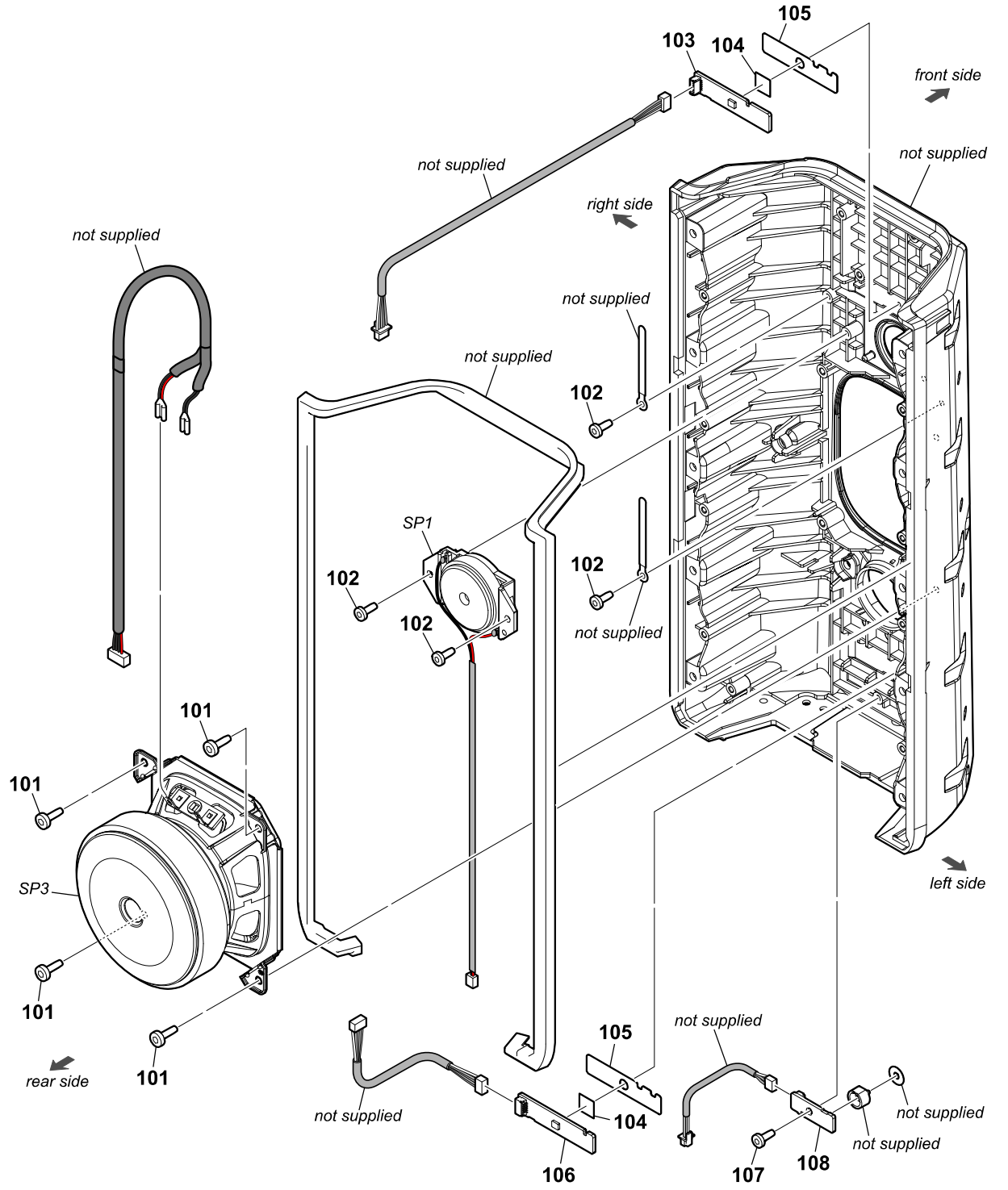


Note: When the RF module (Ref. No. RF1) is replaced with a new part, after assembly, turn the power on and check that the control box and active speaker can be connected automatically.

Ref. No.	Part No.	Description	Remark
51	502719501	SCREW YTT 3X8 (SILVER)	
52	503194401	SHEET, EM WAVE ABSORBER	
53	503277111	TAPE, ACR (T02)	
54	502719511	SCREW YTT 3X8 (BLACK)	
CF1	148152811	FILTER, CLAMP (FERRITE CORE)	
* FC1	146943511	CORE, FERRITE	

Ref. No.	Part No.	Description	Remark
FFC20	100944311	FFC, AMP~WS (50 core, 277 mm)	
RF1	A5037116A	RF MODULE (FL) (SV) (SA-FLA9) (See Note)	
RF1	A5037130A	RF MODULE (FR) (SV) (SA-FRA9) (See Note)	
RF1	A5037144A	RF MODULE (RL) (SV) (SA-RLA9) (See Note)	
RF1	A5037158A	RF MODULE (RR) (SV) (SA-RRA9) (See Note)	

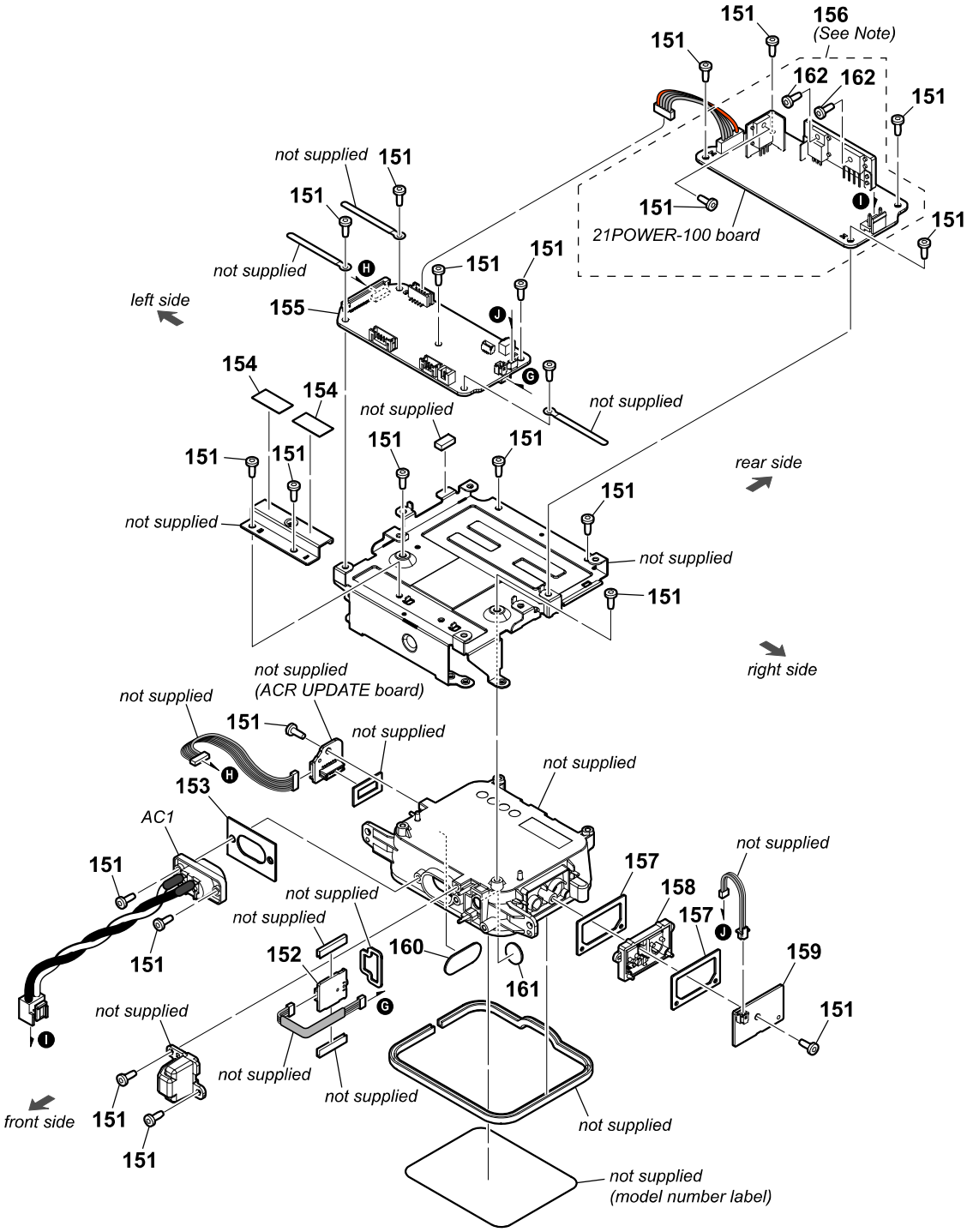
4-3. FRONT BAFFLE SECTION (SA-FLA9/FRA9/RLA9/RRA9)



Ref. No.	Part No.	Description	Remark
101	502719311	SCREW YTT 3.5X10 (BLACK)	
102	502719501	SCREW YTT 3X8 (SILVER)	
103	A5021181A	MIC-T BOARD, COMPLETE	
104	474516401	SHEET (MIC)	
105	502121001	TAPE, MIC	

Ref. No.	Part No.	Description	Remark
106	A5021182A	MIC-B BOARD, COMPLETE	
107	502719601	SCREW YTT 3X6 (SILVER)	
108	A5021179A	LED BOARD, COMPLETE	
SP1	101050211	SPEAKER (14-20) (Tweeter)	
SP3	100947211	LOUDSPEAKER (70-82WF) (Woofer)	

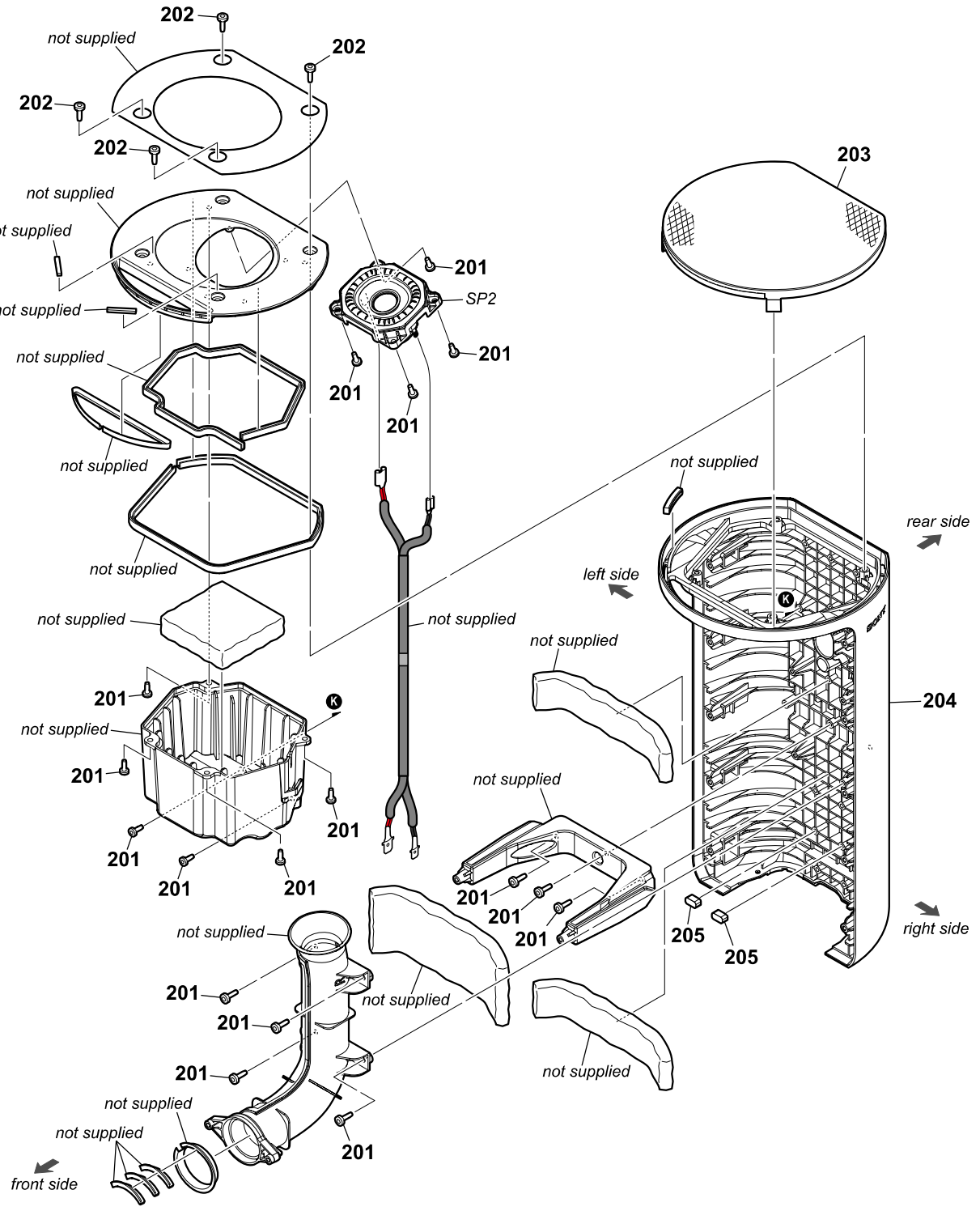
4-4. POWER, AMP BOARD SECTION (SA-FLA9/FRA9/RLA9/RRA9)



Note: The complete 21POWER-100 board (Ref. No. 156) has been changed in the midway of production. When replacing the complete 21POWER-100 board with a new board, refer to "ABOUT CHANGING THE 21POWER-100 BOARD OF THE ACTIVE SPEAKER (SA-FLA9/FRA9/RLA9/RRA9)" on page 16 in advance.

Ref. No.	Part No.	Description	Remark
151	502719501	SCREW YTT 3X8 (SILVER)	
152	A5021180A	JACK BOARD, COMPLETE	
153	502117601	CUSHION (SEAL, INLET)	
154	502573301	SHEET, RADIATION (T05)	
155	A5021177A	AMP BOARD, COMPLETE	
156	A5037578A	21POWER-100 BOARD, COMPLETE (Bond applied) (SV) (Former type) (See Note)	
156	A5050157A	21POWER-100 BOARD, COMPLETE (Bond applied) (SV) (New type) (See Note)	
157	502122501	CUSHION, PWB (BUTTON)	
158	502122101	BUTTON, POWER (ACR)	
159	A5021178A	KEY BOARD, COMPLETE	
160	502121801	SHEET, COVER (CONNECTOR)	
161	502121901	SHEET, COVER (JACK)	
162	502719711	SCREW YTT M3X6 (BLACK)	
⚠ AC1	100935821	INLET	

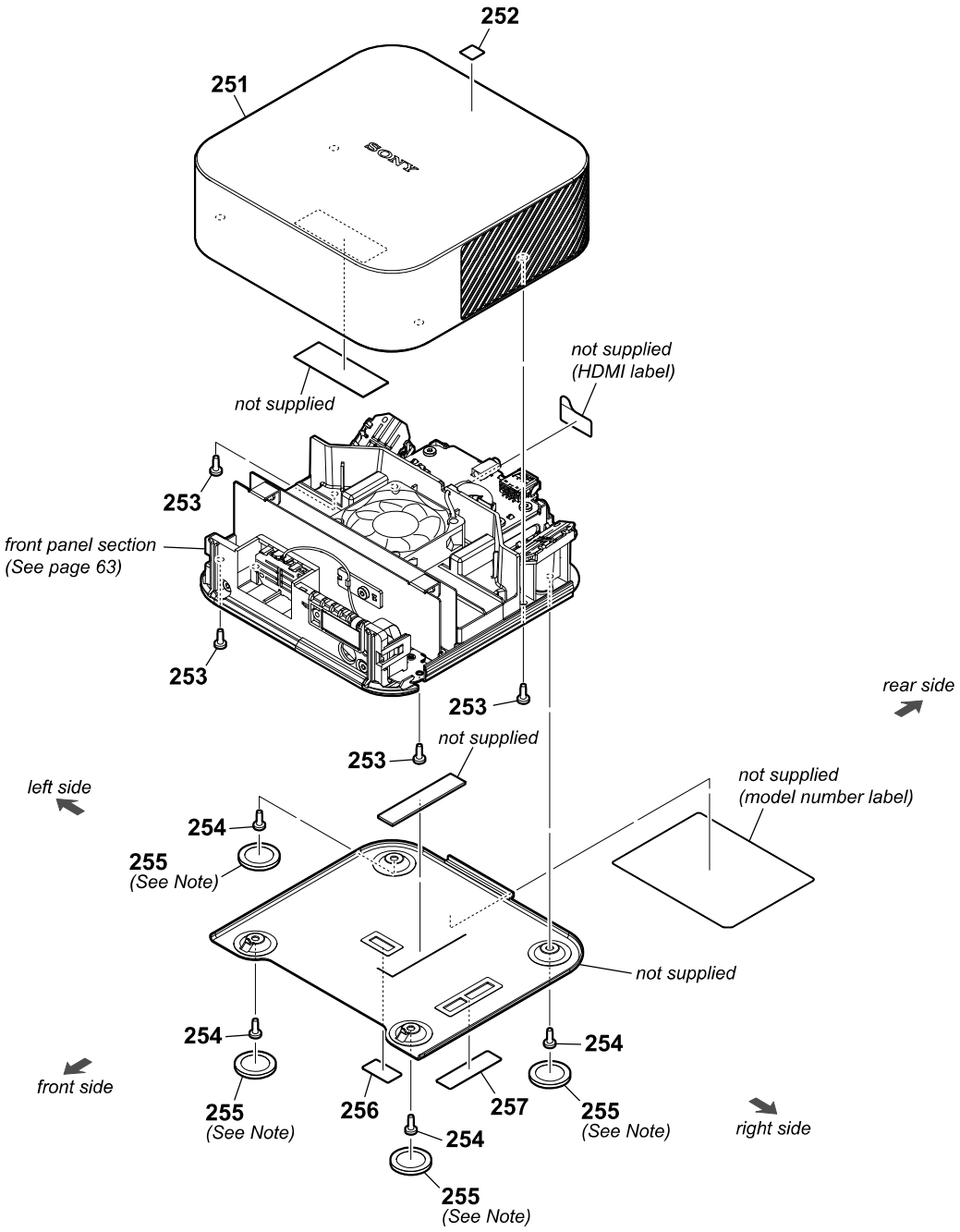
4-5. REAR CABINET SECTION (SA-FLA9/FRA9/RLA9/RRA9)



Ref. No.	Part No.	Description	Remark
201	502719501	SCREW YTT 3X8 (SILVER)	
202	502719311	SCREW YTT 3,5X10 (BLACK)	
203	A5035015A	GRILLE, ENABLED (SV) (with ACR cushion, Grille enabled cushion, ACR tape)	

Ref. No.	Part No.	Description	Remark
204	X50018521	CABINET, REAR (ASSY)	
205	502573001	CUSHION, GRILLE DAMPER	
SP2	100943211	LOUDSPEAKER_EN (Top speaker)	

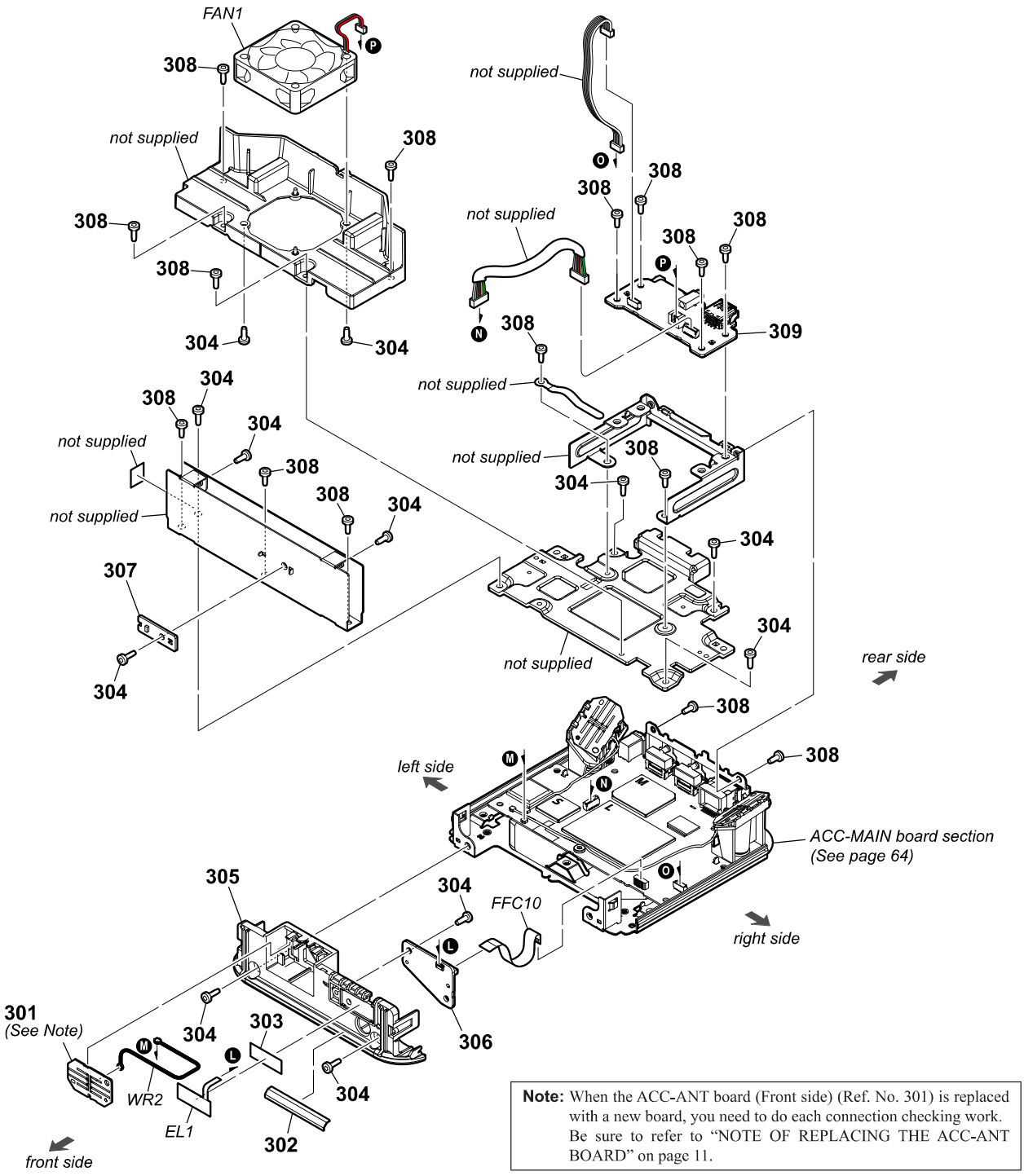
4-6. CABINET SECTION (TMR-A9WT)



Note: If the foot (ACC) (Ref. No. 255) is removed, it cannot be reused. Be sure to replace them with new parts.

Ref. No.	Part No.	Description	Remark
251	X50024092	CABINET (ACC) ASSY	
252	453801711	HI-RES LABEL	
253	502719411	SCREW YTT 3X10 (BLACK)	
254	502719511	SCREW YTT 3X8 (BLACK)	
255	502129201	FOOT (ACC) (See Note)	
256	502571711	SHEET (ACC) (18.0 x 9.9 mm) (short)	
257	502571701	SHEET (ACC) (35.6 x 9.9 mm) (long)	

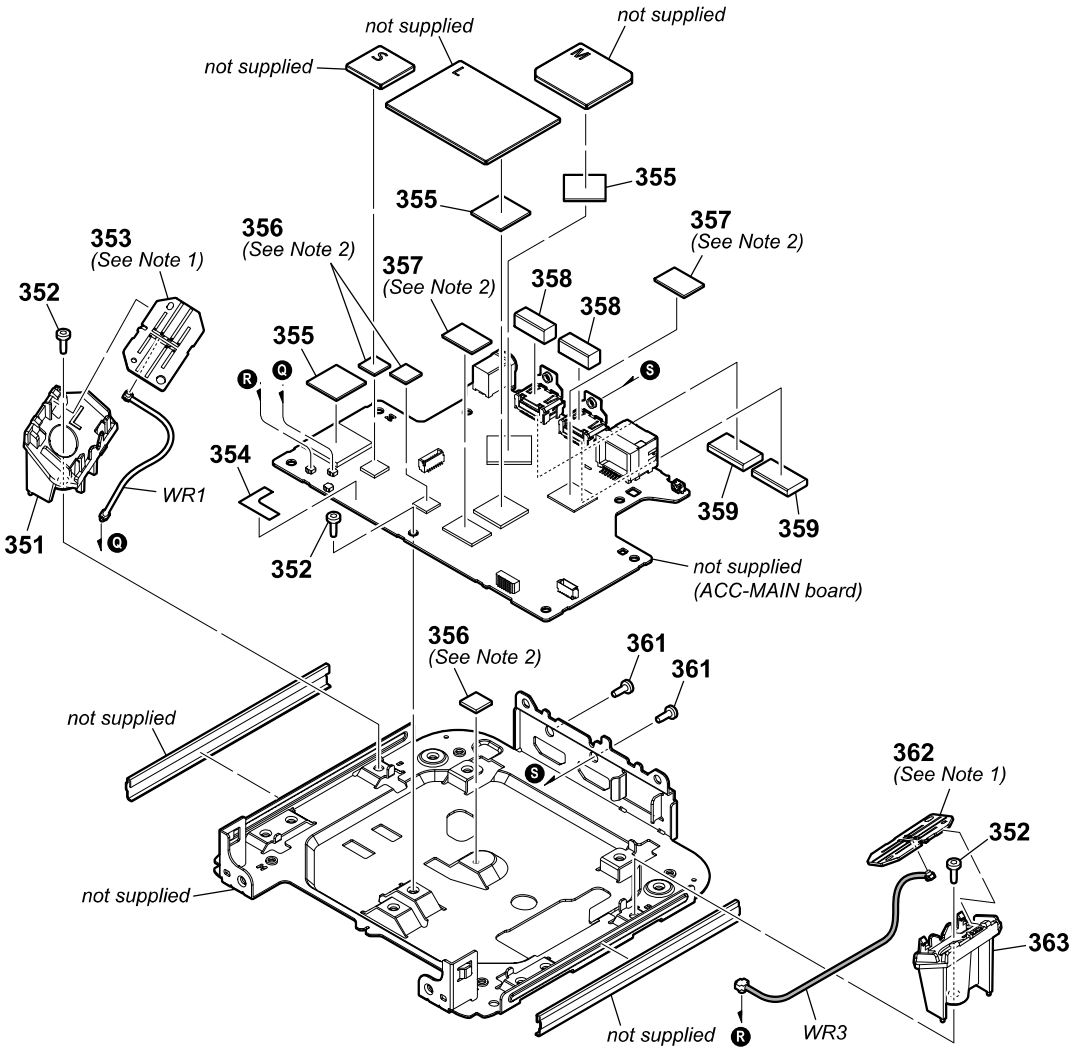
4-7. FRONT PANEL SECTION (TMR-A9WT)



Note: When the ACC-ANT board (Front side) (Ref. No. 301) is replaced with a new board, you need to do each connection checking work. Be sure to refer to "NOTE OF REPLACING THE ACC-ANT BOARD" on page 11.

Ref. No.	Part No.	Description	Remark
301	A5021171A	ACC-ANT BOARD, COMPLETE (FRONT SIDE)	(See Note)
302	503001901	CUSHION, PANEL FRONT	
303	502128101	ADHESIVE, OLED	
304	502719511	SCREW YTT 3X8 (BLACK)	
305	502127101	PANEL, FRONT	
306	A5021167A	OLED BOARD, COMPLETE	
307	A5021168A	ANT-GND BOARD, COMPLETE	
308	502719601	SCREW YTT 3X6	
309	A5021169A	JACK BOARD, COMPLETE	
EL1	181147941	ELEMENT, ORGANIC EL INDICATOR	
FAN1	185550221	DC FAN	
FFC10	100943711	FFC, MB~CHUKEI (14 core, 80 mm)	
WR2	100944111	ANTENNA, COAXICIAL_CABLE_2 (BLACK)	

4-8. ACC-MAIN BOARD SECTION (TMR-A9WT)



Note 1: When the ACC-ANT board (Left/Right side) (Ref. No. 353, 362) is replaced with a new board, you need to do each connection checking work.
Be sure to refer to "NOTE OF REPLACING THE ACC-ANT BOARD" on page 11.

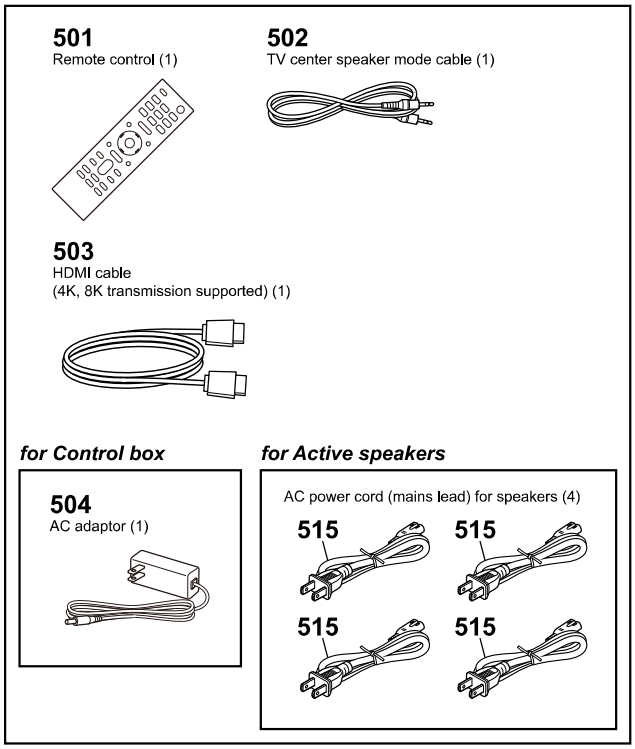
Note 2: The parts for repair of the thermal conduct sheet (Ref. No. 356, 357) is larger than the thermal conduct sheet before replacement. When replacing the thermal conduct sheet with a new part, make sure to cut it to the sizes below.
Size of the Ref. No. 356 thermal conduct sheet: 8.0 x 8.0 mm
Size of the Ref. No. 357 thermal conduct sheet: 15.0 x 10.0 mm

Ref. No.	Part No.	Description	Remark
351	502127401	HOLDER, ANTENNA (L) (for Left side)	
352	502719601	SCREW YTT 3X6 (SILVER)	
353	A5021171A	ACC-ANT BOARD, COMPLETE (LEFT SIDE)	(See Note 1)
354	502955301	EMI ABSORBER (ACC)	
355	502093911	THERMAL CONDUCT SHEET (SC A)	
356	472830501	THERMAL CONDUCT SHEET (See Note 2)	
357	472830501	THERMAL CONDUCT SHEET (See Note 2)	

Ref. No.	Part No.	Description	Remark
358	503633831	SHIELDING GASKET (6.0 X 6.0 X 15.0 mm)	
359	503633801	SHIELDING GASKET (3.0 X 10.0 X 18.0 mm)	
361	502719711	SCREW YTT M3X6 (BLACK)	
362	A5021171A	ACC-ANT BOARD, COMPLETE (RIGHT SIDE)	(See Note 1)
363	502127501	HOLDER, ANTENNA (R) (for Right side)	
WR1	100944011	ANTENNA, COAXICIAL_CABLE_1 (WHITE)	
WR3	100944211	ANTENNA, COAXICIAL_CABLE_3 (GRAY)	

SECTION 5
ACCESSORIES

Ref. No.	Part No.	Description	Remark
	502522912	OPERATING INSTRUCTIONS (ENGLISH, FRENCH, SPANISH)	
501	100937712	REMOTE COMMANDER (RMT-AH508U) (Remote control)	
502	101137212	CORD, CONNECTION (TV center speaker mode cable)	
503	101172013	HDMI CABLE (4K, 8K transmission supported)	
⚠ 504	149335013	AC ADAPTOR (AC-M1215UC) (TMR-A9WT)	
⚠ 515	101002711	POWER SUPPLY CORD SET (AC power cord (mains lead) for speakers) (1 piece) (SA-FLA9/FRA9/RLA9/RRA9)	



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