ULT TOWER 10

ECM-ULT1/SRS-ULT1000/YY7857E/YY7860E

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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ULT TOWER 10

ECM-ULT1/SRS-ULT1000/YY7857E/YY7860E

SERVICE MANUAL

US Model

- This wireless speaker has three types of names for communication name (ULT TOWER 10), model name (SRS-ULT1000), and model (YY7857E). In addition, the wireless microphone that come with this wireless speaker has two types of names for model name (ECM-ULT1), and model (YY7860E).
- All of the units included in the ULT TOWER 10 (wireless speaker/wireless microphone) are required to confirming operation of this unit. Check in advance that the full set are prepared.

Photo: SRS-ULT1000/YY7857E

Photo: ECM-ULT1/YY7860E

- ULT TOWER 10/SRS-ULT1000/YY7857E come with a ECM-ULT1/YY7860E (Wireless microphone).

SPECIFICATIONS

▶ Wireless Speaker (YY7857E)

Amplifier section

Power output and total harmonic distortion:
With 4 Ω loads, both channels driven, from 100 Hz – 10 000 Hz; rated 20 W per channel minimum RMS power in stereo mode, with no more than 1% total harmonic distortion from 250 mW to rated output.

Communication Specification

Frequency band
BLUETOOTH®: 2.4 GHz band (2.400 0 GHz - 2.483 5 GHz)
Wireless microphone section: 2.4 GHz band (2.400 0 GHz - 2.483 5 GHz)

General

Inputs
- Type A USB port: Supported USB Device (Mass Storage Class)
- AUDIO IN jack (Φ 3.5 mm)
- OPTICAL IN connector (PCM)
- MIC/GUITAR jack (Φ 6.3 mm)

DC OUT
Type A USB port (for charging the battery of a connected device) (DC 5 V/MAX. 1.5 A)

Power
AC 120 V, 60 Hz

Power consumption
Approx. 139 W

Standby power consumption
When BLUETOOTH standby mode is set to on: 2.0 W or less
When BLUETOOTH standby mode is set to off: 0.3 W or less

Operating temperatures
–5 °C - 40 °C (23 °F - 104 °F)

Dimensions (including projecting parts and controls)
Approx. 418 mm × 1 106 mm × 428 mm (16.5 in × 43.6 in × 16.9 in) (w/h/d)

Mass
Approx. 29 kg (63 lb 15 oz)

▶ Wireless microphone (YY7860E)

Communication specification

Frequency band
2.4 GHz band (2.400 0 GHz - 2.483 5 GHz)

Microphone

Type
Dynamic

Directivity
Uni directional

Effective frequency range
50 Hz - 15 000 Hz

General

Power
3 V DC, two LR6 (size AA) alkaline batteries

Power consumption
Approx. 0.2 W

Battery life
Approx. 25 hours*1

Operating temperatures
–5 °C - 40 °C (23 °F - 104 °F)

Dimensions (including projecting parts and controls)
Approx. 50 mm × 233 mm × 50 mm (2.0 in × 9.2 in × 2.0 in) (w/h/d)

Mass (including battery)
Approx. 280 g (10 oz)

Included items

Wireless Speaker (1)
AC power cord (mains lead) (1)
Optical digital cable (optical rectangular plug ⟷ optical rectangular plug) (1)
Wireless microphone (1)
LR6 (size AA) alkaline battery (2)
Documents (1 set)

*1 The actual battery life may differ from the listed time due to the surrounding temperature and usage conditions, and the type and manufacturer of the batteries.

Design and specifications are subject to change without notice.

ULT TOWER 10/SRS-ULT1000/YY7857E
WIRELESS SPEAKER
ECM-ULT1/YY7860E
WIRELESS MICROPHONE

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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)

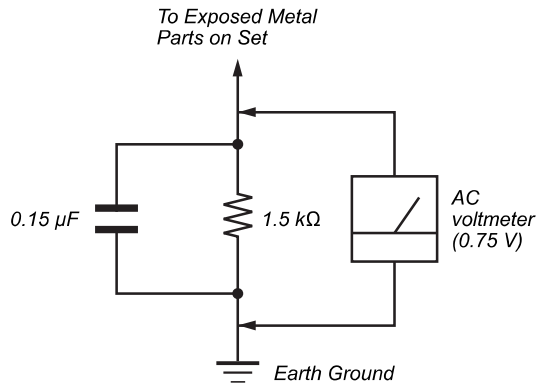

Fig. A. Using an AC voltmeter to check AC leakage.

NOTES ON CHIP COMPONENT REPLACEMENT

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

SAFETY-RELATED COMPONENT WARNING!

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

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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)

: 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.

ADVANCE PREPARATION WHEN CONFIRMING OPERATION

All of the units included in the ULT TOWER 10 (wireless speaker/ wireless microphone) are required to confirming operation of this unit. Check in advance that the full set are prepared.

ABOUT MODEL NAME

This wireless speaker has three types of names.
Communication name : ULT TOWER 10
Model name : SRS-ULT1000
Model : YY7857E

The wireless microphone that come with this wireless speaker has two types of names.
Model name : ECM-ULT1
Model : YY7860E

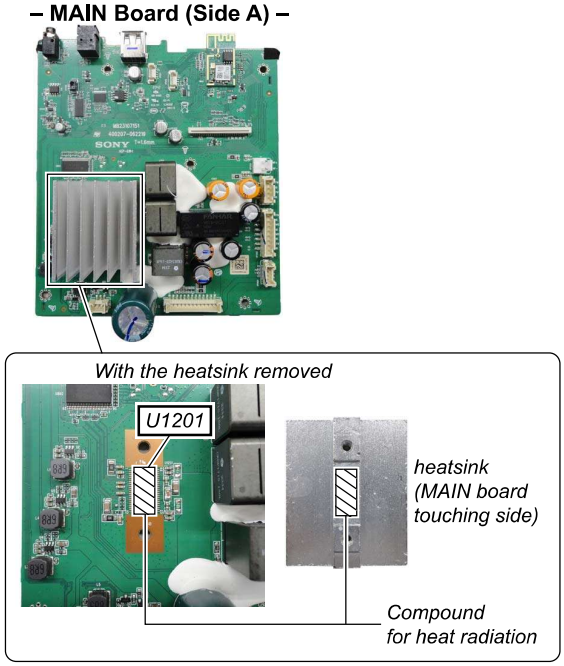
PROTECT MODE

Symptoms	Type	Cause	Countermeasure
Stop playback Disconnect BLUETOOTH Disable each key operation (other than initialize operation)	Fan error	Fan motor stopped	Perform the initialize (Refer to page 10). Unplug the AC power cord, reconnect it, and turn on the power. When it does not recover, replace the fan motor with a new parts. Also, the MAIN board may be damaged.
USB charging stopped	USB over current	USB VBUS line over current	Perform the restart (Refer to page 10). When it does not recover, the MAIN board may be damaged.
Stop playback Disconnect BLUETOOTH Disable each key operation (other than initialize operation)	Amplifier error	Either abnormal amplifier temperature, over current or DC offset	Perform the initialize (Refer to page 10). Unplug the AC power cord, reconnect it, and turn on the power. When it does not recover, the MAIN board may be damaged.

ABOUT COMPOUND FOR HEAT RADIATION

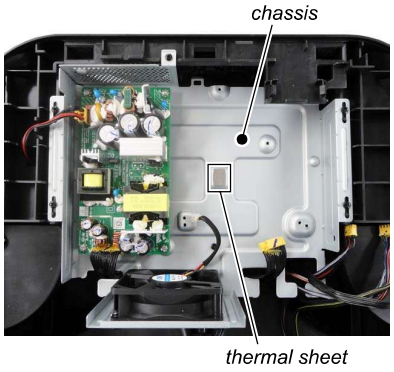
The compound for heat radiation is applied to the touching portion between the MAIN board and the heatsink.
When the heatsink is removed, be careful not to touch the compound for heat radiation.

– MAIN Board (Side A) –

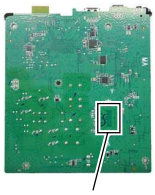


ABOUT THE THERMAL SHEET

The thermal sheet is attached to the chassis.
When installing the MAIN board, be sure to check that the thermal sheet is attached to the appropriate position.



– MAIN Board (Side B) –



NOTES WHEN CHECKING THE OPERATION OF THE MAIN BOARD

Before checking the operation of the MAIN board with the wireless speaker disassembled, be sure to refer to the following.

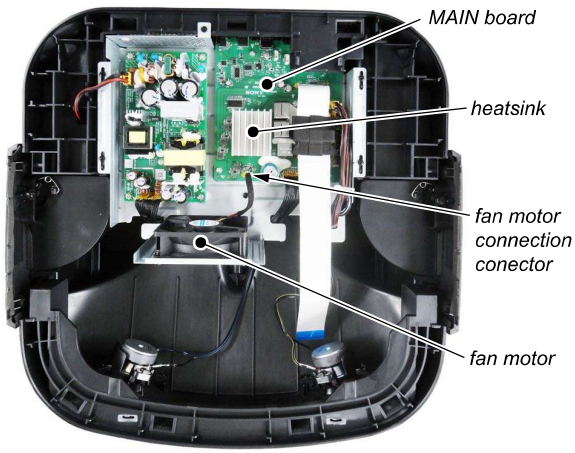
When removing the fan motor to checking operation:

The temperature is detected by the fan motor voltage.
If the voltage value is 12 V or more (volume level about 18 or more) and the operated, the protection circuit will be activated and the wireless speaker will be in a protected state.
If the voltage value is 5 V or less (volume level about 17 or less), it is possible to check the operation for a short time, but it is not recommended.
It is recommended to check the operation with the fan motor connected to the MAIN board.

When removing the heatsink to checking operation:

The temperature is detected by the amplifier IC. Therefore, if the wireless speaker is operated for about 10 minutes at a low volume (volume level about 10 or less), it will be in a protected state.
It is possible to check the operation for a short time of about 5 minutes, but it is not recommended.
It is recommended to check the operation with the heatsink attached to the MAIN board.

With the top panel block removed



DISCHARGE PROCESSING METHOD

When removing the SMPS board or MAIN board after checking the operation, for the electric shock prevention, be sure to perform discharge processing according to the following steps to prevent electric shock.

Note 1: Be sure to remove the SMPS board first, then the MAIN board.
Note 2: Be sure to use a resistor of 5000 to 8000 Ω/5 W for the discharge processing.

Discharge processing method for SMPS board:

1. Remove all wires connected to the SMPS board.

Note 1: Be careful not to touch the electrical parts mounted on the SMPS board.

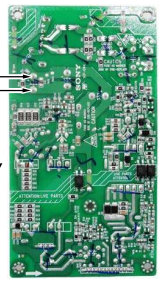
2. Remove the screws that secure the SMPS board.
3. Grab the transformer (T2) and lift up the SMPS board.

Note 2: Be careful not to touch the electrical parts mounted on the SMPS board.

4. Turn over the SMPS board so that the solder side of the board is visible, connect a resistor to the CE1 terminal, and discharge for about 10 seconds.

– SMPS Board (Component Side) –

– SMPS Board (Conductor Side) –



Discharge processing method for MAIN board:

1. Remove the SMPS board.

Note 1: Be sure to remove the SMPS board before the MAIN board.

2. Remove all wires and flexible flat cable connected to the MAIN board.

Note 2: Be careful not to touch the electrical parts mounted on the MAIN board.

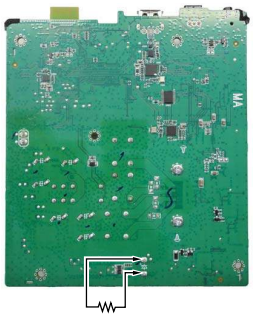
3. Remove the screws that secure the MAIN board.
4. Hold both ends of the MAIN board and lift it up.

Note 3: Be careful not to touch the electrical parts mounted on the MAIN board.

5. Turn over the MAIN board so that the solder side of the board is visible, connect a resistor to the CE1201 terminal, and discharge for about 10 seconds.

– MAIN Board (Side A) –

– MAIN Board (Side B) –



MODEL IDENTIFICATION

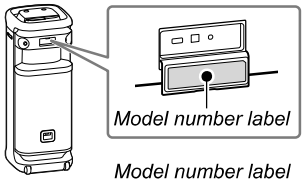
When distinguishing the destination of the wireless speaker, refer to the model number label indicated on the inside of the jack cover (rear) on the rear.

In addition, when distinguishing the destination of the wireless microphone, remove the battery cover and refer to the model number label indicated on the PCB cap.

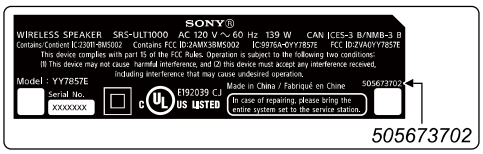
Note 1: The contents of model number label might be changed in the midway of production.

Note 2: When replacing the rear cabinet assy or jack cover (rear) of the wireless speaker with a new part, carefully peel off the label pasted to the inside of the jack cover (rear) before replacement, and paste it to the inside of the new jack cover (rear).

Wireless speaker
– Rear view –

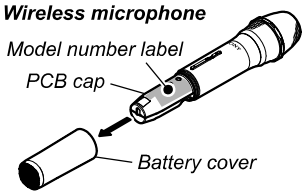


Model number label
(Wireless speaker)

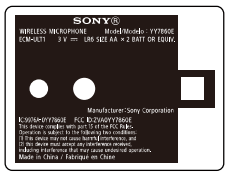


Note 3: This model number label indicates that it is SRS-ULT1000/ULT TOWER 10/YY7857E for US. If the model number label is other than this, it is SRS-ULT1000/ULT TOWER 10/YY7857E with a destination other than US.

Wireless microphone



Model number label
(Wireless microphone)



Note 4: This model number label indicates that it is ECM-ULT1/YY7860E for US. If the model number label is other than this, it is ECM-ULT1/YY7860E with a destination other than US.

CHECKING METHOD OF MODEL NAME, MODEL AND SERIAL NUMBER

When checking of the model name, model and serial number of the wireless speaker, refer to the model number label indicated on the inside of the jack cover (rear) on the rear.

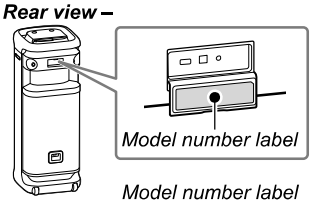
In addition, when checking of the model name, model and serial number of the wireless microphone, remove the battery cover and refer to the model number label indicated on the PCB cap.

Note 1: The contents of model number label might be changed in the midway of production.

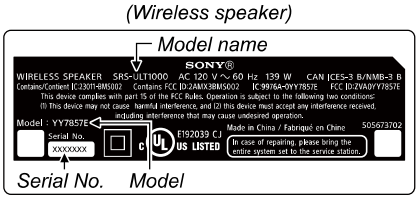
Note 2: The communication name (ULT TOWER 10) is not indicated.

Note 3: When the wireless microphone is replaced with a new wireless microphone, the serial number will change.

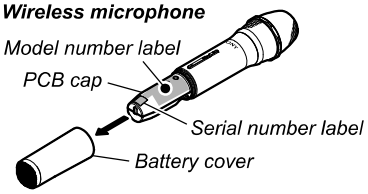
Wireless speaker
– Rear view –



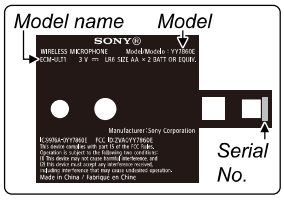
Model number label
(Wireless speaker)



Wireless microphone



Model number label
(Wireless microphone)



CARRYING METHOD

This wireless speaker can be easily moved by rolling using wheels. To move the wireless speaker, grasp the center of the handle on the same side as the wheels (rear side), tilt the wireless speaker, and pull with one hand while checking that the wheels are rotating.

Note 1: Before carrying the wireless speaker, disconnect all the cables.

Note 2: The caster wheels can be used only on flat surfaces. On uneven surfaces, lift the wireless speaker by two people using the handles.

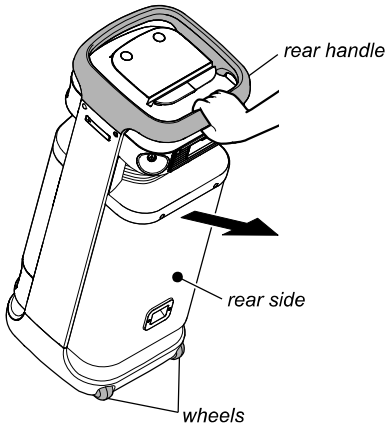
Note 3: To avoid personal injury or damage to surroundings, grasp the handle firmly and lift correctly.

Note 4: Exercise extreme caution when carrying on a slope.

Note 5: Do not carry the wireless speaker with a person, luggage, etc. on it.

Note 6: If your skin remains in contact with the handle for a long time while the light is turned on, there is a risk of low-temperature burns. To carry the wireless speaker while it is powered on, turn the light (lighting function) off.

Note 7: If sand or dust adheres to the caster wheels' axles, or grass or lint gets wrapped around them, the caster wheels may malfunction.



IMPORTANT NOTE OF REPLACING THE TOUCH BOARD

When the TOUCH board of the wireless speaker is replaced with a new board, be sure to perform the following works.

Note: It is not possible to operate normally just by replacing the TOUCH board.

- Perform reconnect the wireless microphone.
  (Refer to "WIRELESS MICROPHONE PAIRING METHOD" on page 11)
- Check the general operation.
  (Refer to the help guide)
- Perform initialization
  (Refer to "INITIALIZATION METHOD" on page 10)

IMPORTANT NOTE OF REPLACING THE WIRELESS MICROPHONE OR THE MICROPHONE BOARD

When the wireless microphone is replaced with a new wireless microphone, or the MICROPHONE board of the wireless microphone is replaced with a new board, be sure to perform the following works.

Note: Be sure to perform the following works. It will not operate normally if these works are not performed.

- Perform reconnect the wireless microphone.
  (Refer to "WIRELESS MICROPHONE PAIRING METHOD" on page 11)
- Check the general operation.
  (Refer to the help guide)

TV SOUND BOOSTER OPERATION CHECKING METHOD

The wireless speaker is equipped with the TV Sound Booster function.
When checking the operation of the TV Sound Booster, refer to the following.

Advance preparation:

Prepare the following equipment.

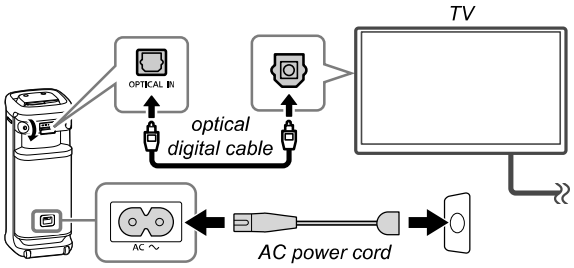
- TV or CD player with an optical digital audio output connector.

Note: The checking procedure below uses a TV.

- Optical digital cable supplied with the wireless speaker.
- AC power cord supplied with the wireless speaker.

Checking procedure:

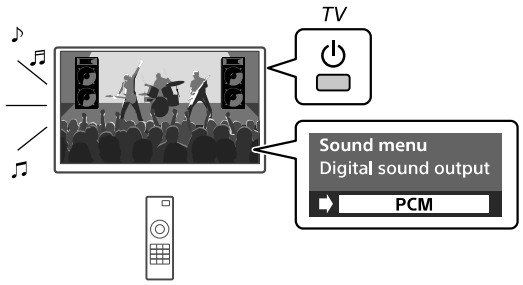
1. Connect the optical digital cable to the optical output connector of the TV and the [OPTICAL IN] connector of the wireless speaker. In addition, connect the AC power cord to the AC input jack and insert it into an AC outlet.



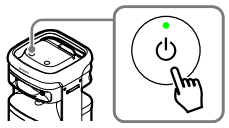
2. Turn on the TV, set the TVs digital sound output to “PCM”, and output the sound from the TV.

Note 1: Output a sound source that includes a human voice. (Music, drama, talk show, etc.)

Note 2: For how to operate the TV, refer to the instruction manual supplied with the TV.



3. Press the [⏻] button on the wireless speaker to turn the power on.

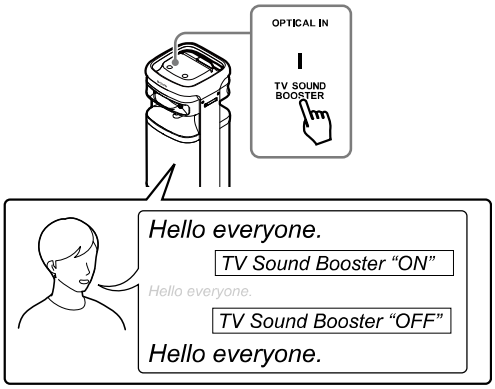


– Continued on upper right –

4. Touch the [TV SOUND BOOSTER] key of the wireless speaker and turn ON the TV Sound Booster function, and check that the human voice and vocal voice output from the wireless speaker is low.
   After checking, touch the [TV SOUND BOOSTER] key again to turn OFF the TV Sound Booster function, check that the human voice and vocal voice output from the wireless speaker is loud.

Note 3: When the TV Sound Booster is turn ON state, even if you touch the [+]/[–] keys of the wireless speaker to adjust the volume, the state where the human voice and vocal voice do not become loud is normal.

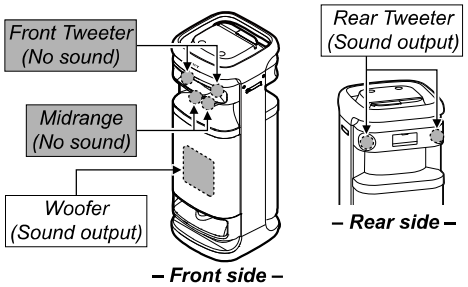
Note 4: If the human voice or vocal voice is not low while the TV Sound Booster is turn ON state, refer to “2. Sound is not output from the wireless speaker (Wireless Speaker)” (page 61) in TROUBLESHOOTING.



5. Touch the [TV SOUND BOOSTER] key of the wireless speaker and turn ON the TV Sound Booster function, and check there is no sound output from the front tweeter and midrange.

Note 5: When the TV Sound Booster is turn ON state, even if you touch the [+]/[–] keys of the wireless speaker to adjust the volume, the state where no sound is output from the front tweeter and midrange are normal.

Note 6: If the sound output from the front tweeter and midrange while the TV Sound Booster is turn ON state, refer to “2. Sound is not output from the wireless speaker (Wireless Speaker)” (page 61) in TROUBLESHOOTING.



6. Press the [⏻] button on the wireless speaker to turn off the power, disconnect from the TV, and complete the operation check of TV Sound Booster.

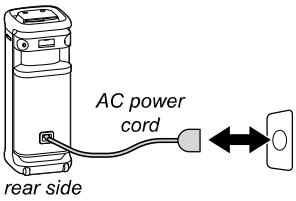
RESTART METHOD

If there is a problem with the operation of the wireless speaker, such as the wireless speaker not being able to be operated or pairing even after the power is turned on, unplug the AC power cord from an AC outlet. Then plug the AC power cord to an AC outlet again, and perform a restart.

Note 1: Even if you restart, the pairing information is not deleted. However, pairing information is registered by turning off the power of the wireless speaker. When pairing a new device, press the power button to turn off the wireless speaker, turn it on again, and then perform a restart.

Note 2: There is no behavior to indicate that a restart has occurred.

Note 3: Restarting may change the volume, functions, and sound settings.



INITIALIZATION METHOD

- **Initialization Method of the Wireless Speaker**

After completing the repair of the wireless speaker, be sure to initialize the wireless speaker according to the following procedure.

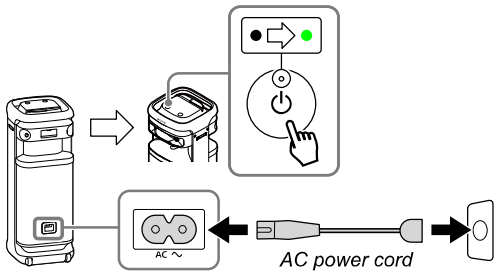
Note 1: When initialize the wireless speaker, all device pairing information will be deleted and return each setting to the factory default settings.

Note 2: Initializing the wireless speaker does not delete the wireless microphone pairing information.

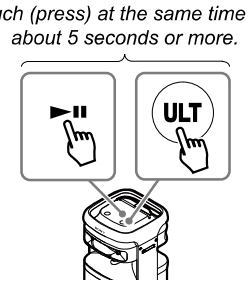
Wireless speaker initialization procedure:

1. Plug the AC power cord and press the [⏻] button to turn on the power.

Note 3: Initialization cannot be executed when the power is turn off.

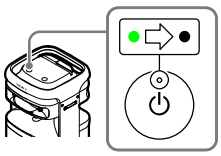


2. Touch the [►II] key and press the [ULT] button at the same time for about 5 seconds or more, and keep touching and pressing until the power is turned off.



3. The power turns off automatically and initialization is complete.

Note 4: When the power is turned off, the [⏻] indicator light off.



WIRELESS MICROPHONE PAIRING METHOD

If replacing any parts of the wireless speaker or wireless microphone will disconnect the pairing of the wireless speaker and wireless microphone.
In that case, be sure to refer to the following and pairing the wireless speaker and wireless microphone.

1. Repairing and Parts Replacing that Require Pairing Work

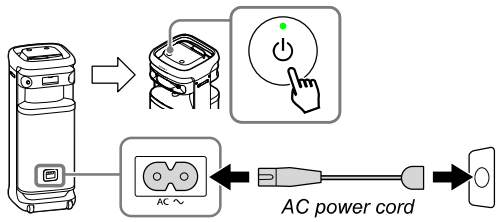
- When the TOUCH board of the wireless speaker is replaced with a new board
- When the MICROPHONE board of the wireless microphone is replaced with a new board
- When the wireless microphone is replaced with a new wireless microphone

2. Perform Pairing the Wireless Microphone and Wireless Speaker

Pairing procedure:

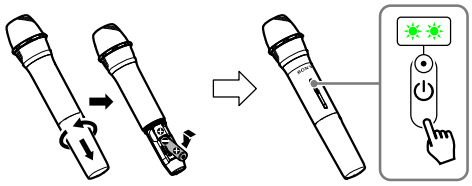
1. Connect the AC power cord to the wireless speaker and plug it to an AC outlet. Then press the [⏻] button to turn on the power.

Note 1: The wireless speaker may suddenly output a loud sound, so touch the [–] key on the wireless speaker several times to the volume level down.



2. Install the batteries to the wireless microphone and press the [⏻] button to turn on the power.

Note 2: The wireless speaker may suddenly output a loud sound, so press the [–] button on the wireless microphone several times to the volume level down.

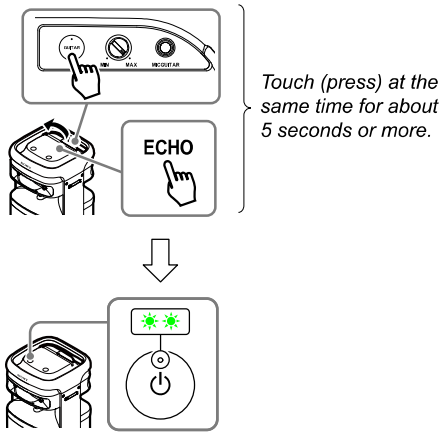


– Continued on upper right –

3. Touch the [ECHO] key and press the [GUITAR] button on the wireless speaker at the same time for about 5 seconds or more, and check that the [⏻] indicator on the wireless speaker repeatedly flashing twice.

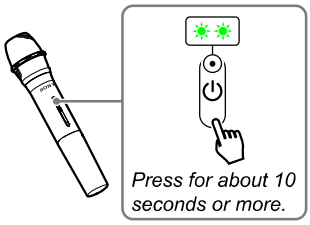
Note 3: Place the wireless microphone within about 1 m from the wireless speaker.

Note 4: Depending on the pairing status of the wireless speaker and wireless microphone, may not be checked visually that the [⏻] indicator is flashing.

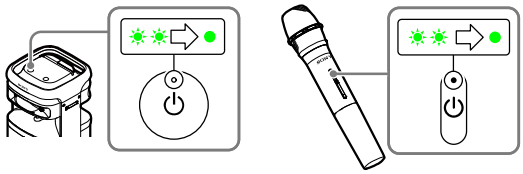


4. Press the [⏻] button on the wireless microphone for about 10 seconds or more, and check that the [⏻] indicator on the wireless microphone flashing twice.

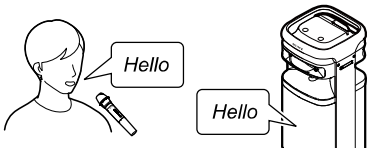
Note 5: Place the wireless microphone within about 1 m from the wireless speaker.



5. Check that the [⏻] indicator on the wireless speaker and the [⏻] indicator on the wireless microphone have changed from flashing to light up.



6. Speak into the wireless microphone and check that voice is output from the wireless speaker without any problems.



7. Press the [⏻] button on the wireless speaker to turn off the power and disconnect the AC power cord.
   Press the [⏻] button on the wireless microphone to turn off the power and remove the batteries.

8. Completes the wireless microphone pairing work.

AUTO STANDBY FUNCTION ON/OFF SWITCHING METHOD

Such as when it want to temporarily turn off the auto standby function, it can switch the auto standby function on and off.

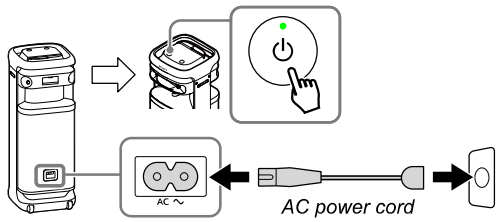
Note 1: It can also switch the auto standby function on and off by using the "Sony | Music Center". In that case, refer to help guide of the ULT TOWER 10/SRS-ULT1000/YY7857E.

State of wireless speaker:

- At the factory default, the auto standby function is set to "ON".
- The auto standby function is turned off when a microphone or guitar is connected to the wireless speaker.
- While the wireless speaker is supplying power to the other device, the auto standby function is turned off.

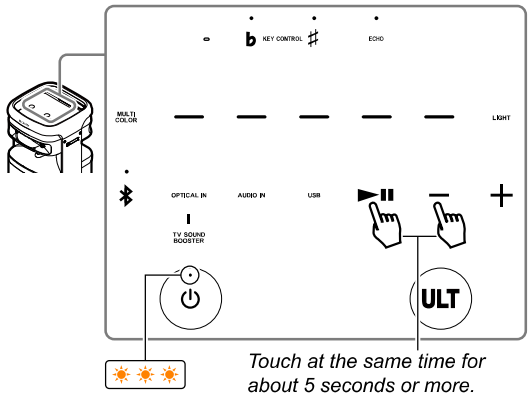
Procedure:

1. Plug the AC power cord and press the [⏻] button to turn on the power.



2. Touch the[–] key and [►II] key at the same time for about 5 seconds or more, the [⏻] indicator flashes in orange 3 times, and auto standby function is set to "OFF".

Note 2: When setting the auto standby function to "ON", touch the [–] key and [►II] key at the same time for about 5 seconds or more again, and the [⏻] indicator flashes in orange twice and set to "ON".



3. Completes the switching work of auto standby function.

Note 3: After completing all the work, be sure to refer to "INITIALIZATION METHOD" on page 10, and initialize the wireless speaker.

BLUETOOTH CODEC SWITCHING METHOD

It can switch the quality of BLUETOOTH connection to "sound quality priority" or "connection priority".

When it set to sound quality priority, the optimum CODEC is automatically selected from AAC, LDAC, and SBC.

When it set to connection priority, SBC is selected.

Note 1: It can also switch the BLUETOOTH CODEC by using the "Sony | Music Center". In that case, refer to help guide of the ULT TOWER 10/SRS-ULT1000/YY7857E.

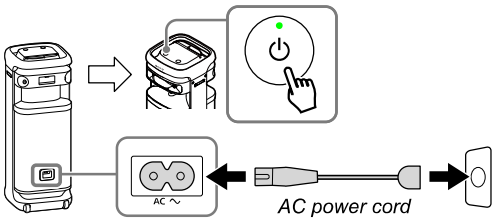
State of wireless speaker:

- At the factory default, the BLUETOOTH CODEC is set to "sound quality priority".
- When using the Stereo Pair function or Party Connect function, the CODEC automatically switches to SBC.

Procedure:

1. Plug the AC power cord and press the [⏻] button to turn on the power.

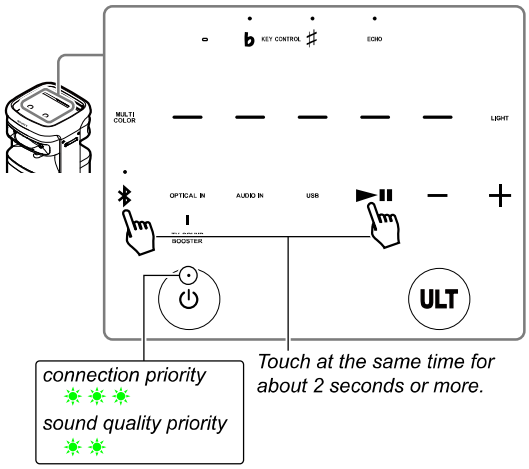
Note 2: If there is a previously connected BLUETOOTH device near the wireless speaker, it may automatically connect. When connected, the [✱] indicator light up in blue.



2. Touch the [►II] key and [✱] key at the same time for about 2 seconds or more.
   (When it is switched to "connection priority", the [⏻] indicator flashes in green 3 times)
   (When it is switched to "sound quality priority", the [⏻] indicator flashes in green twice)

Note 3: If the wireless speaker and BLUETOOTH device are connected, the connection will be automatically disconnected and then reconnected to enable the setting.

Note 4: When it set to "sound quality priority", noise might occur or the sound might be interrupted depending on the combination of the settings of the connected BLUETOOTH device and the usage environment.



3. Completes the switching work of BLUETOOTH CODEC.

Note 5: After completing all the work, be sure to refer to "INITIALIZATION METHOD" on page 10, and initialize the wireless speaker.

BLUETOOTH FUNCTION ON/OFF SWITCHING METHOD

Such as when it want to temporarily turn off the BLUETOOTH function, it can switch the BLUETOOTH function on and off.

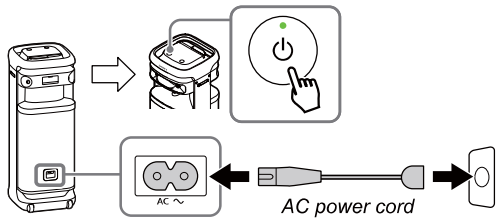
Note 1: When the BLUETOOTH function is set to "OFF", pairing and connection with BLUETOOTH devices cannot be performed. In addition, "Sony | Music Center" cannot be used.

State of wireless speaker:

- At the factory default, the BLUETOOTH function is set to "ON".

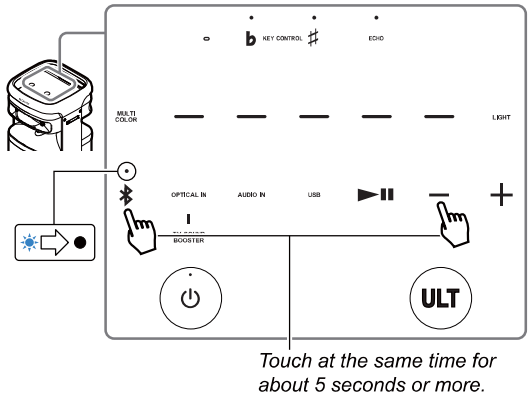
Procedure:

1. Plug the AC power cord and press the [⏻] button to turn on the power.



2. Touch the [–] key and [ᛒ] key at the same time for about 5 seconds or more, the [ᛒ] indicator light off, and BLUETOOTH function is set to "OFF".

Note 2: When setting the BLUETOOTH function to "ON", touch the [–] key and [ᛒ] key at the same time for about 5 seconds or more again, and the [ᛒ] indicator flashes and set to "ON".



3. Completes the switching work of BLUETOOTH function.

Note 3: After completing all the work, be sure to refer to "INITIALIZATION METHOD" on page 10, and initialize the wireless speaker.

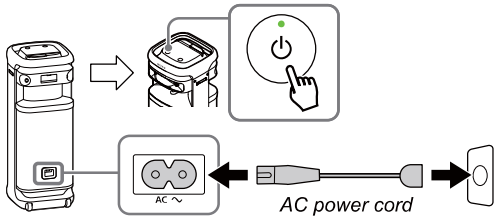
BUILT-IN DEMO SOUND SOURCE PLAYBACK METHOD

It can playback the demo sound source built into wireless speaker.

Note 1: The hands-free function cannot be used while the built-in demo sound source is playback.

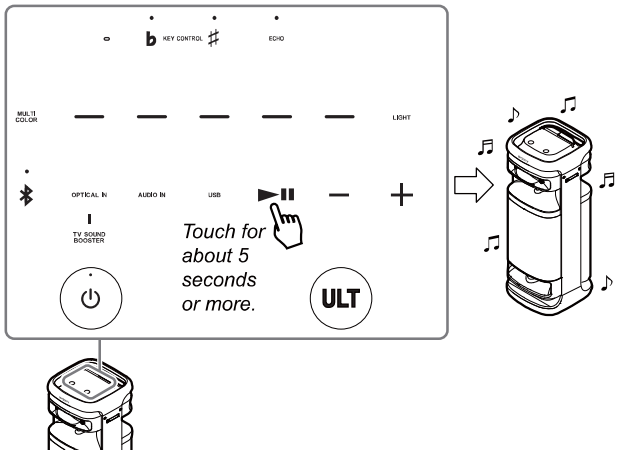
Procedure:

1. Plug the AC power cord and press the [⏻] button to turn on the power.



2. Touch the [►II] key for about 5 seconds or more to start playback the built-in demo sound source.

Note 2: To stop playback the built-in demo sound source, touch the [►II] key again.

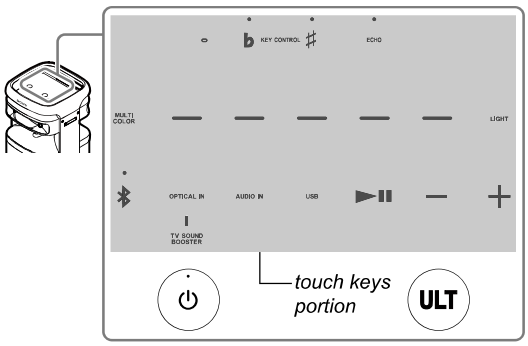


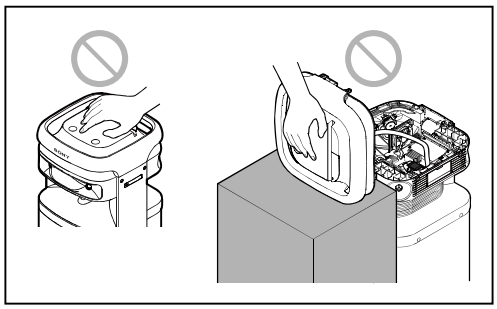
3. Completes the playback the built-in demo sound source.

MALFUNCTION PREVENTION OF THE TOUCH KEYS

There are touch keys on the top side of the wireless speaker.
Therefore, when checking the operation, make sure that the operation check with nothing touching status the touch keys portion.

Note: When checking the operation by removing the top panel block, touching the touch key portion may malfunction.





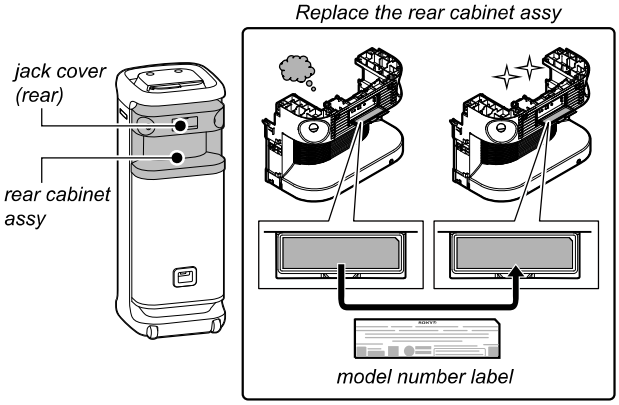
BLUETOOTH CONNECTION CHECK AND OTHER GENERAL OPERATION CHECK

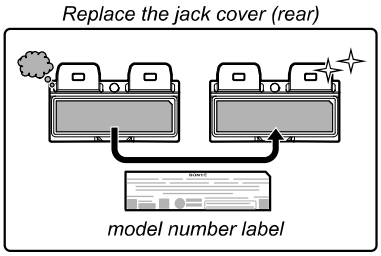
After the repair such as parts replacement is completed, refer to the help guide with the ULT TOWER 10/SRS-ULT1000/YY7857E to check the BLUETOOTH connection and other general operations.

NOTE OF REPLACING THE REAR CABINET ASSY OR THE JACK COVER (REAR)

When replacing the rear cabinet assy or jack cover (rear) of the wireless speaker with a new part, carefully peel off the model number label affixed to the inside of the jack cover (rear), and affix it to the inside of the new jack cover (rear).

Note: Perform the working carefully and not to damage the model number label.



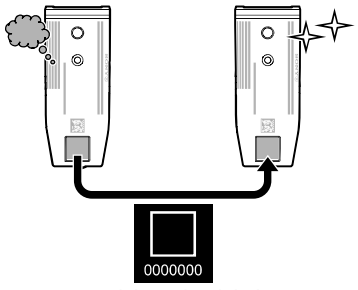


NOTE OF REPLACING THE PCB CAP

When replacing the PCB cap of the wireless microphone with a new part, carefully peel off the serial number label affixed on the PCB cap, and affix it to the appropriate location on the new PCB cap.

Note 1: Perform the working carefully and not to damage the serial number label.

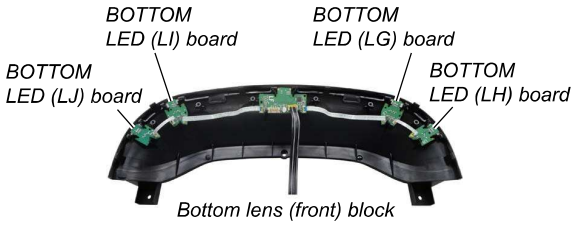
Note 2: When the wireless microphone is replaced with a new wireless microphone, a new wireless microphone will have a serial number label affixed state to it. Therefore, there is no need to replace the serial number label, but the serial number will change.

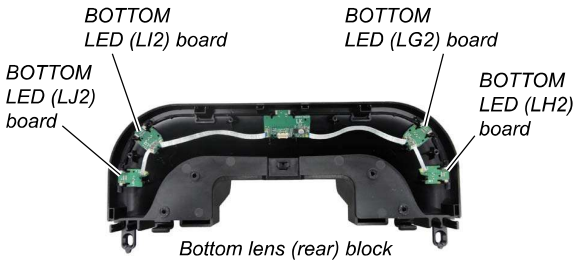


NOTE OF REPLACING THE BOTTOM LED BOARD

The BOTTOM LED board used on the bottom rear side of the wireless speaker uses LG2, LH2, LI2, and LJ2 boards, but when replacing each board with a new board, it will be replace with the same board as the BOTTOM LED (LG, LH, LI, LJ) board used on the bottom front side.

The BOTTOM LED (LG, LH, LI, LJ) board and the BOTTOM LED board (LG2, LH2, LI2, LJ2) differ in the Ref. No. of electrical parts mounted on each board in addition to the board name, but the functions of the boards are common. Therefore, there is no problem even if replace the BOTTOM LED (LG2, LH2, LI2, LJ2) board with the BOTTOM LED (LG, LH, LI, LJ) board.

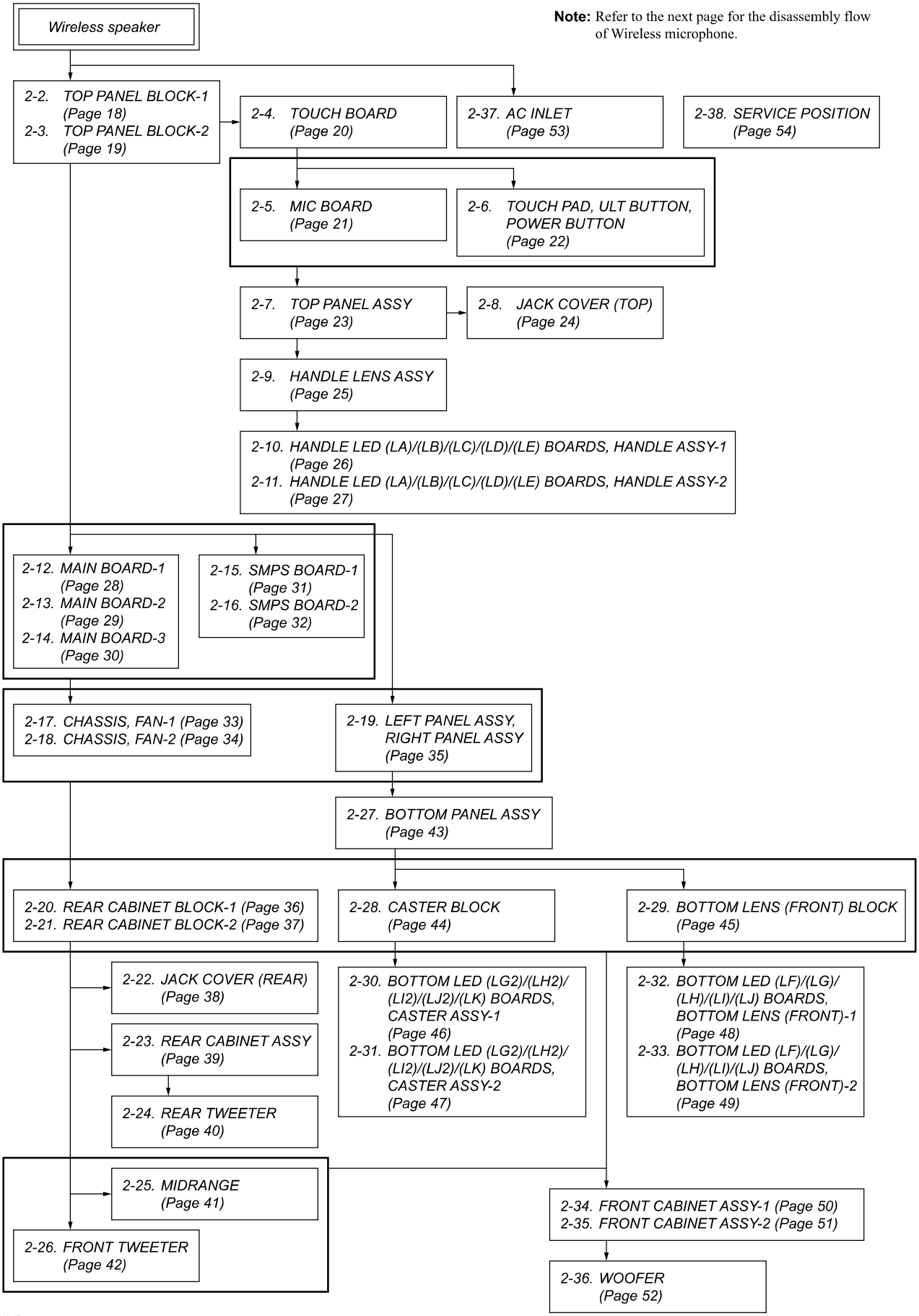




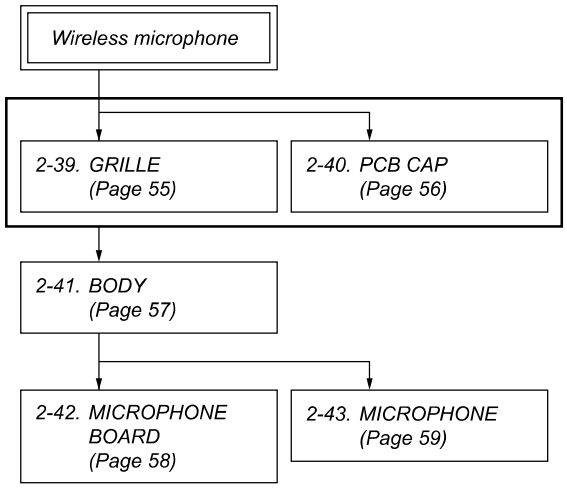
SECTION 2
DISASSEMBLY

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

2-1. DISASSEMBLY FLOW



ULT TOWER 10

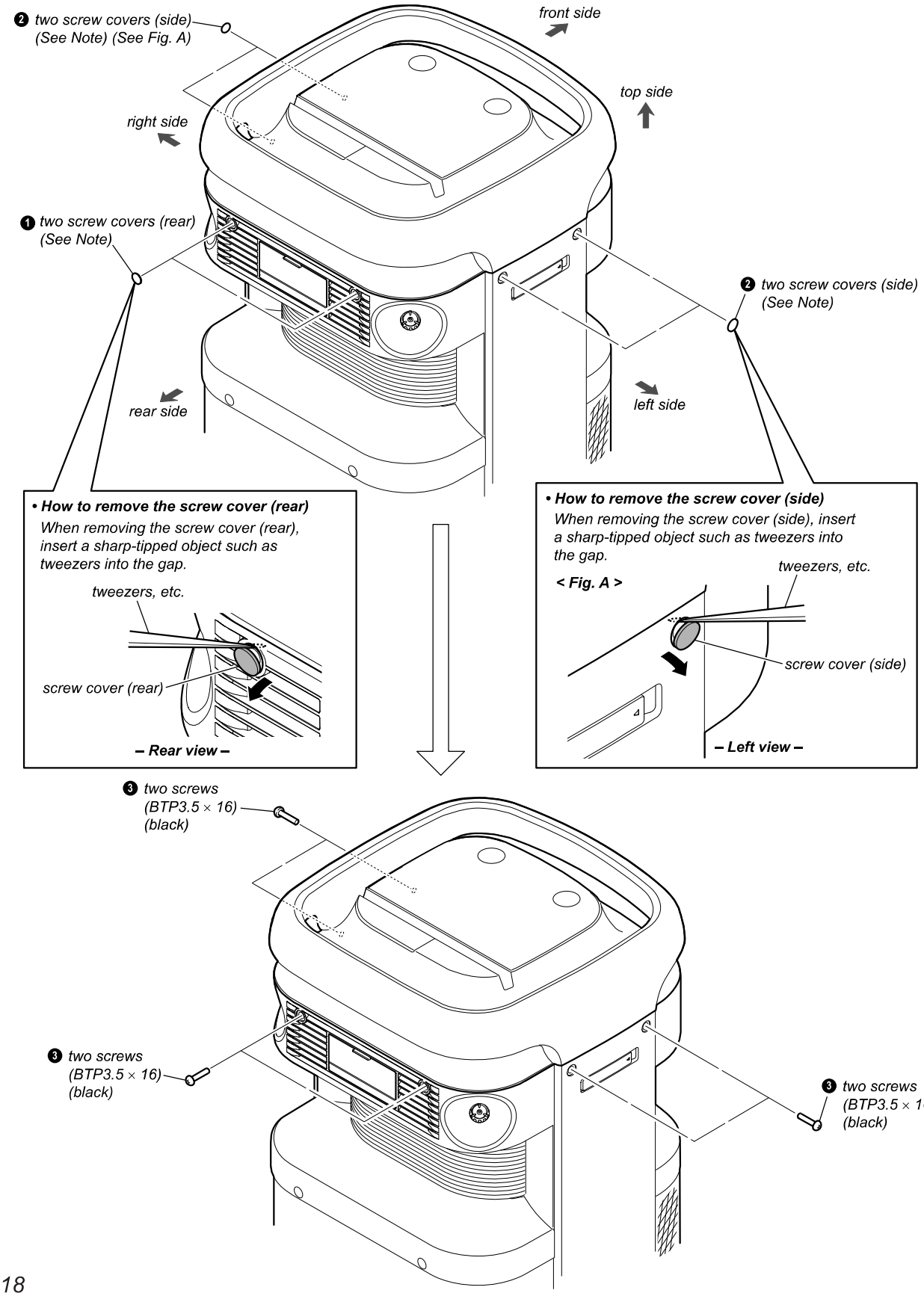

Wireless microphone
2-39. GRILLE
(Page 55)
2-40. PCB CAP
(Page 56)
2-41. BODY
(Page 57)
2-42. MICROPHONE
BOARD
(Page 58)
2-43. MICROPHONE
(Page 59)

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

2-2. TOP PANEL BLOCK-1 (WIRELESS SPEAKER)

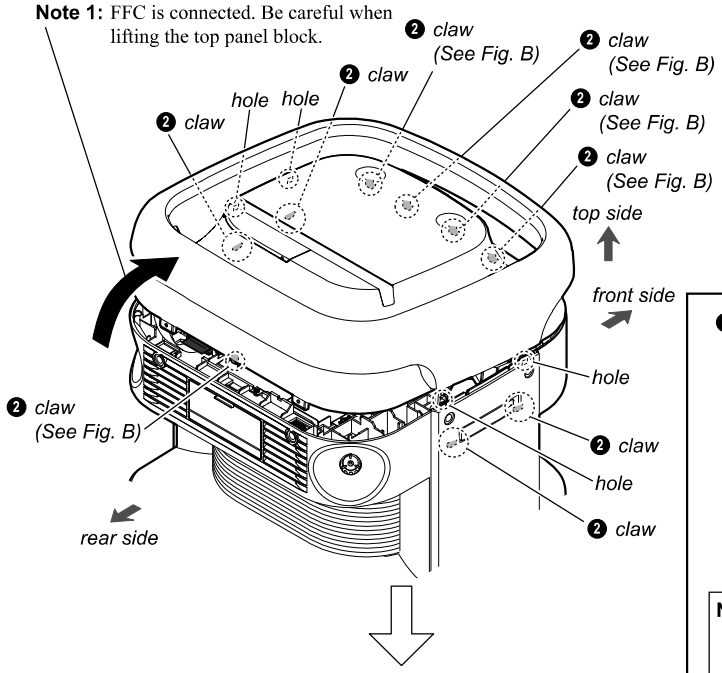
• Continued on 2-3 (page 19).

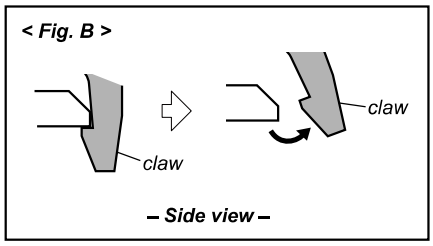
Note: When reusing the screw cover (rear) or screw cover (side) for installation, make sure that the screw cover (rear) or screw cover (side) is not weakened of the adhesive strength, broken, or damaged. If there is weakened of the adhesive strength, broken, or damaged, do not reuse the screw cover (rear) or screw cover (side) and replace it with a new part.



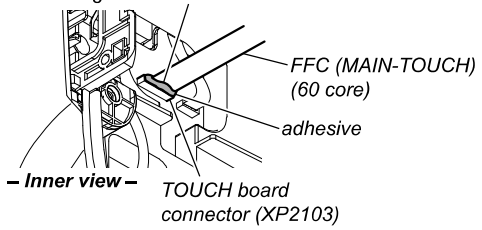
2-3. TOP PANEL BLOCK-2 (WIRELESS SPEAKER)

❶ *Hold the rear handle and lift up the top panel block in the direction of the arrow.*
Note 1: FFC is connected. Be careful when lifting the top panel block.



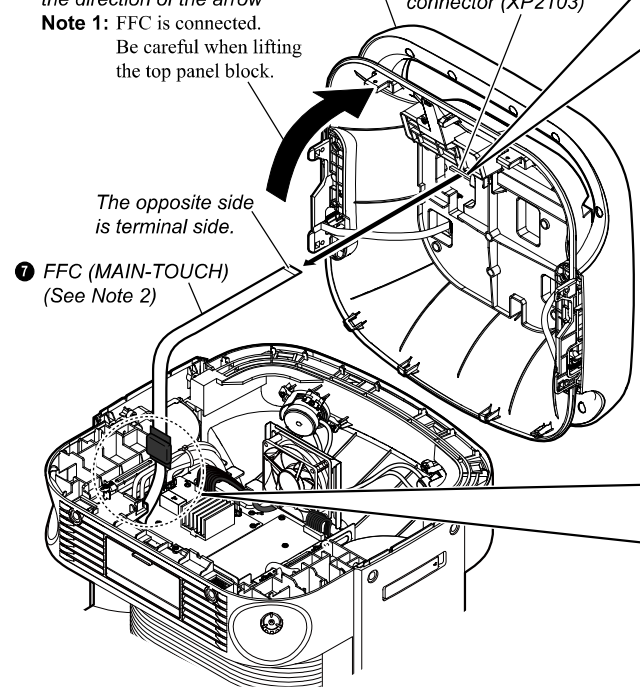


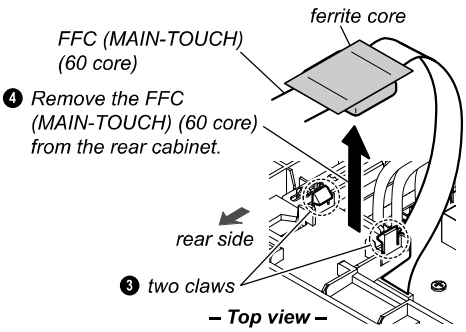
❻ *Peel off the adhesive carefully so as not to damage the connector and FFC.*



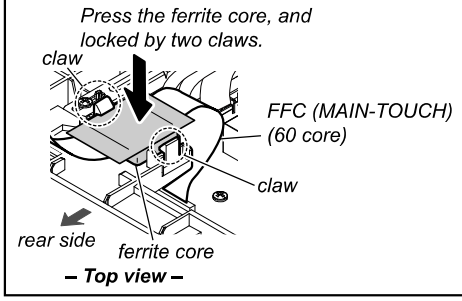
Note 2: The FFC connected to the TOUCH board is fixed to the connector with adhesive.
Therefore, when removing the FFC from the connector on the TOUCH board, remove the adhesive carefully to avoid damaging the wire, and then remove the FFC.
Also, if it reconnect the FFC, it is not necessary to apply adhesive. Make sure to insert the FFC firmly and correctly into the connector.

❽ *top panel block*
❺ *Lift up the top panel block in the direction of the arrow*
Note 1: FFC is connected. Be careful when lifting the top panel block.
TOUCH board connector (XP2103)

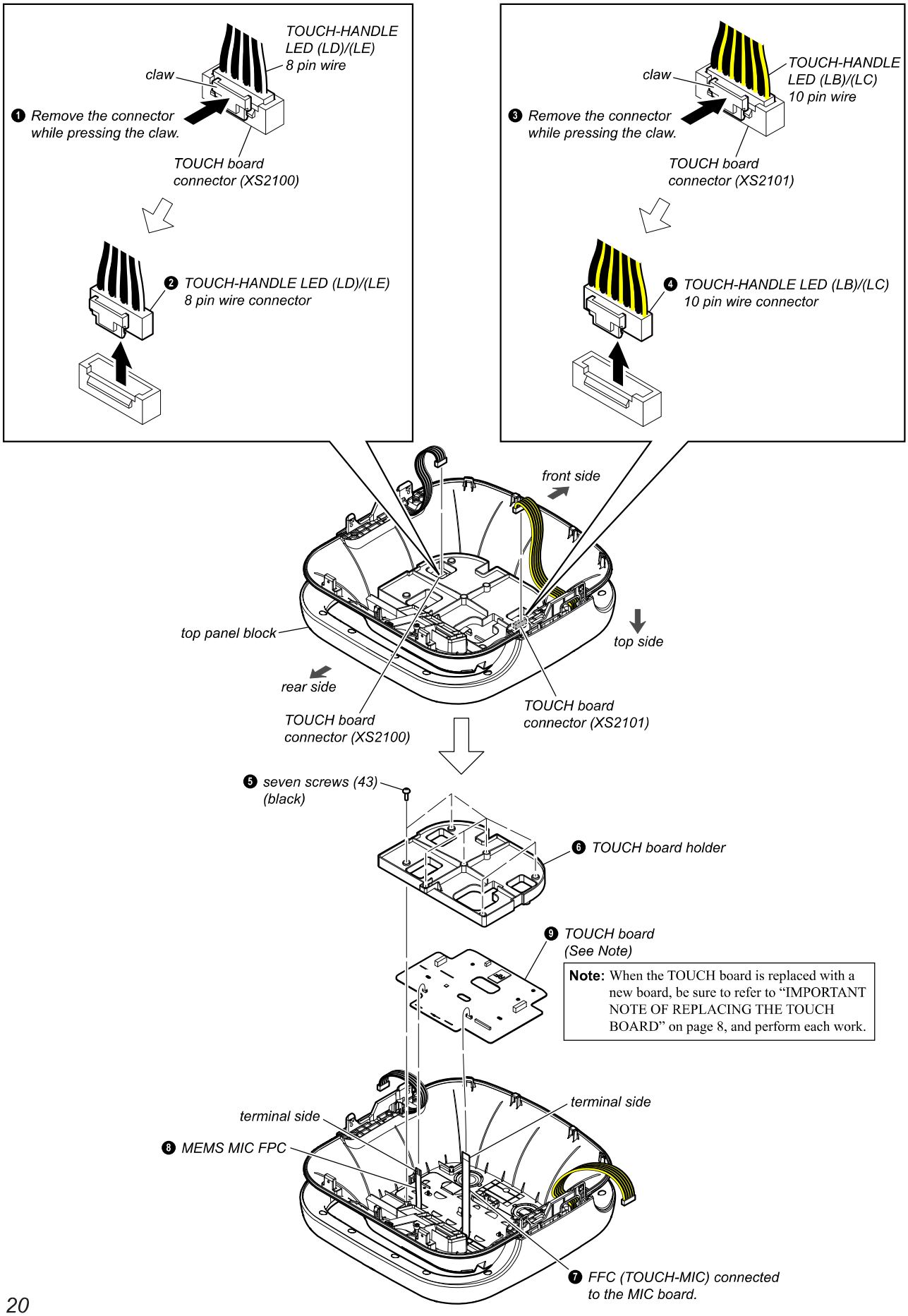




• ***Arrangement when installing the FFC (MAIN-TOUCH) (60 core)***

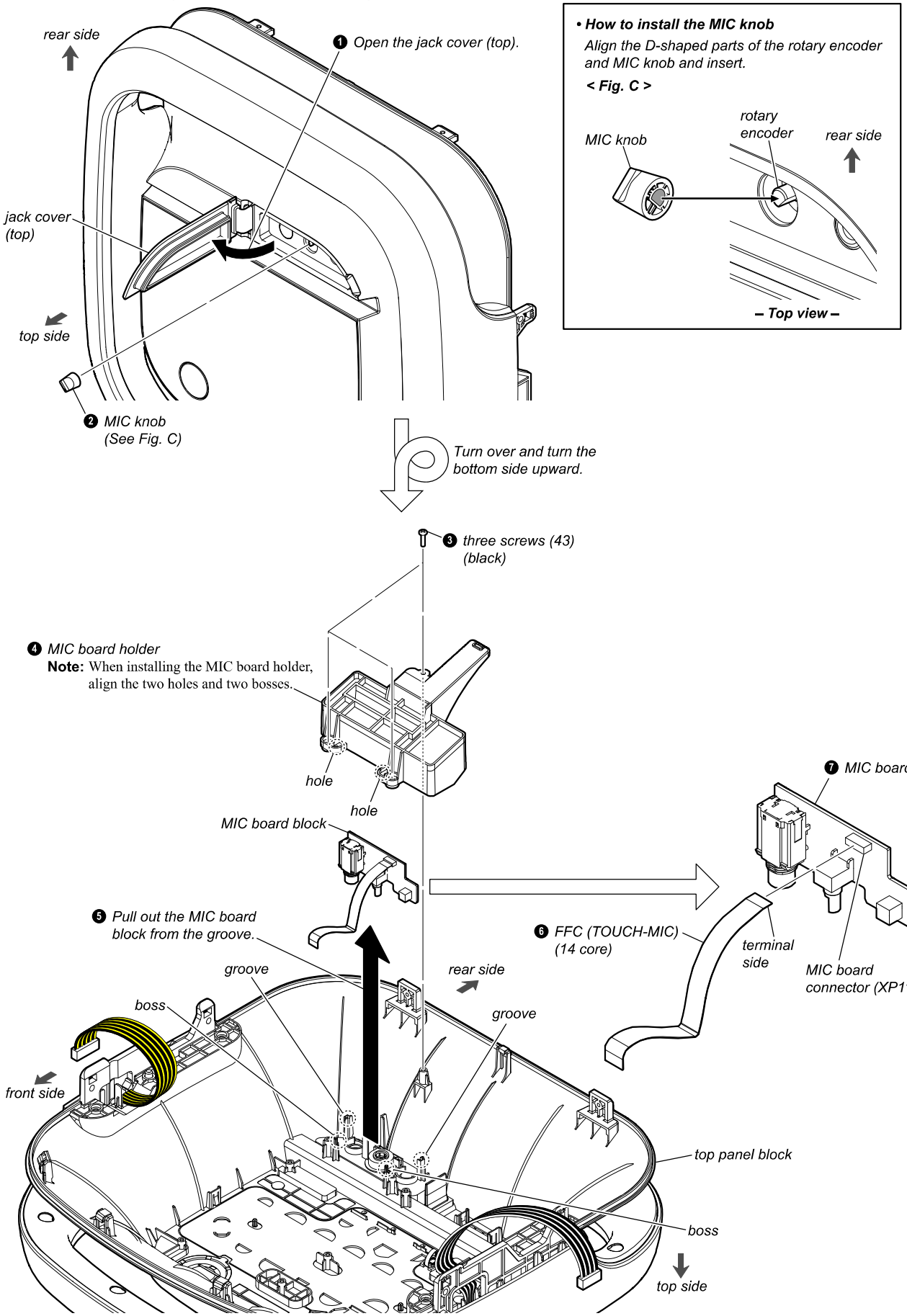


2-4. TOUCH BOARD (WIRELESS SPEAKER)

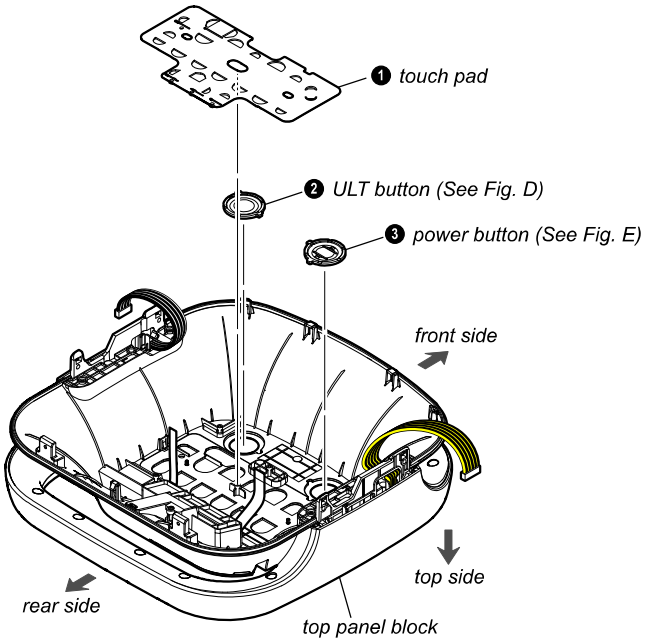


Note: When the TOUCH board is replaced with a new board, be sure to refer to "IMPORTANT NOTE OF REPLACING THE TOUCH BOARD" on page 8, and perform each work.

2-5. MIC BOARD (WIRELESS SPEAKER)



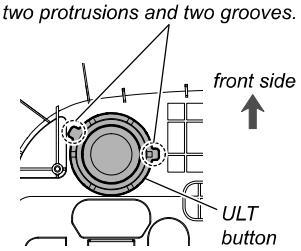
2-6. TOUCH PAD, ULT BUTTON, POWER BUTTON (WIRELESS SPEAKER)



• Installation position of the ULT button

< Fig. D >

When installing the ULT button, align the two protrusions and two grooves.

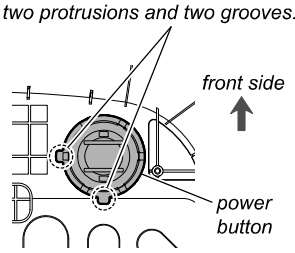


– Bottom view –

• Installation position of the power button

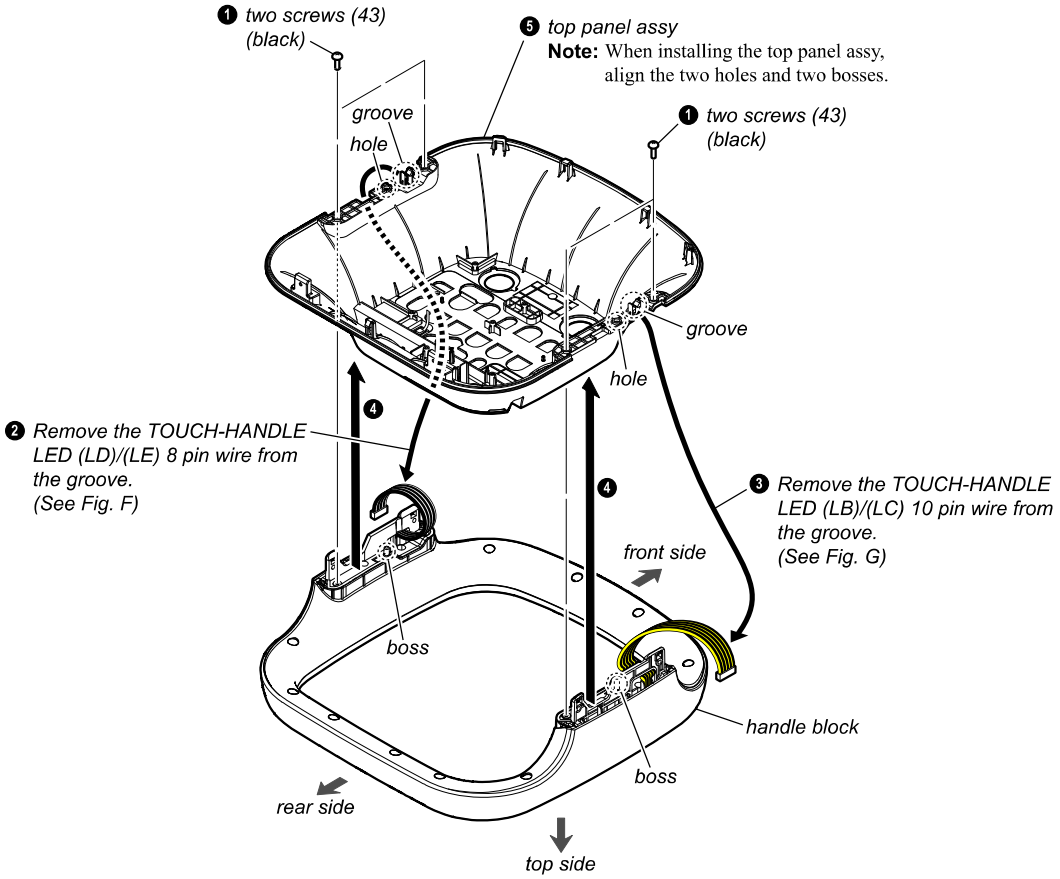
< Fig. E >

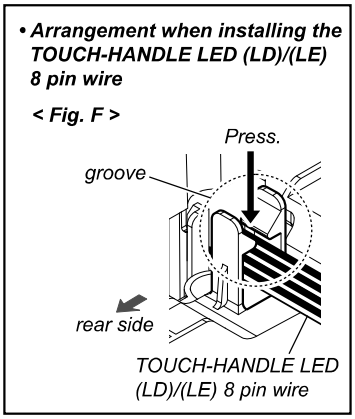
When installing the power button, align the two protrusions and two grooves.

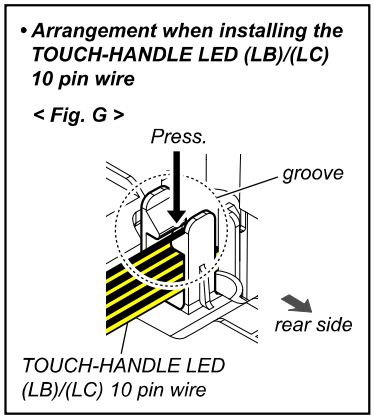


– Bottom view –

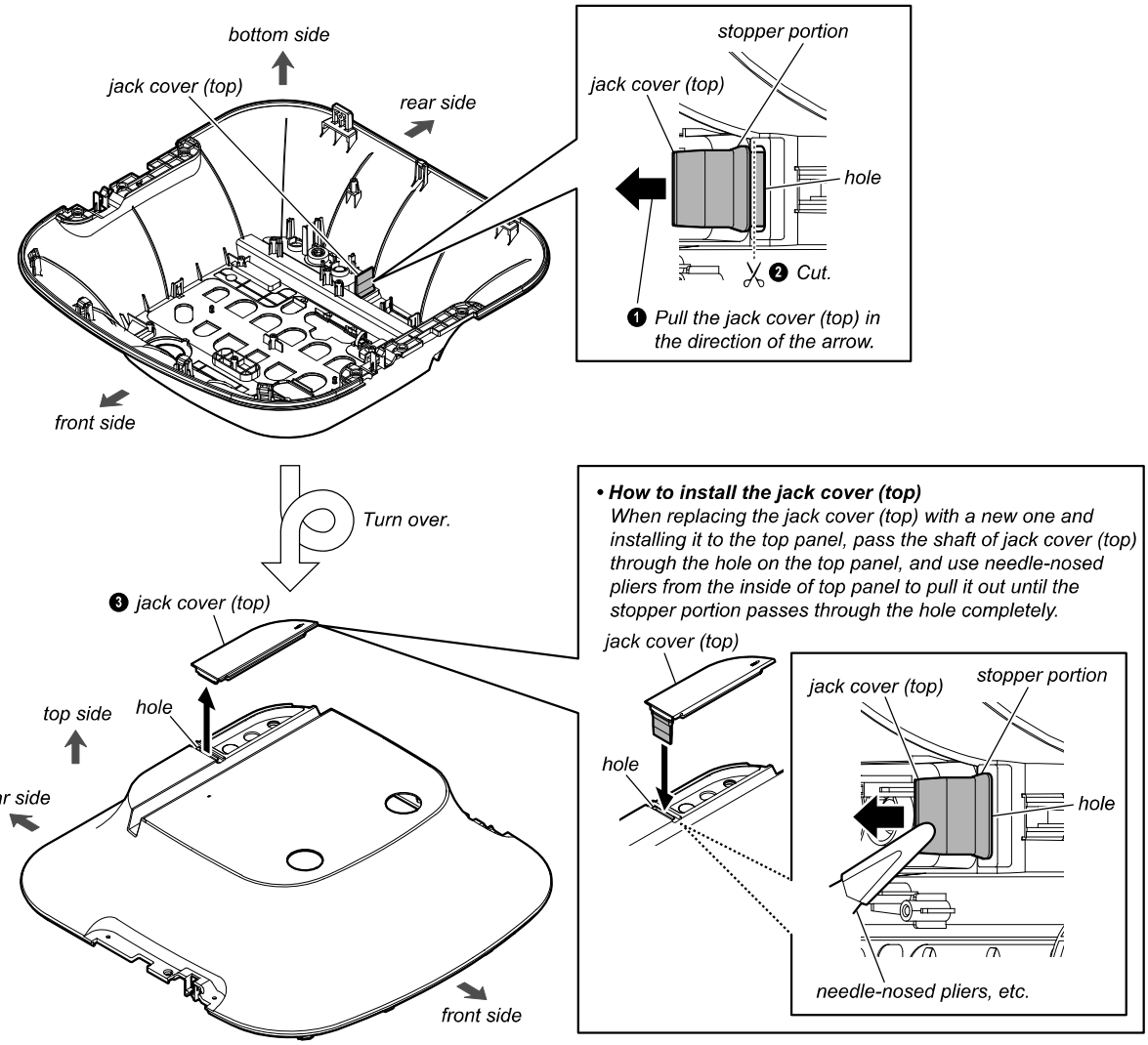
2-7. TOP PANEL ASSY (WIRELESS SPEAKER)



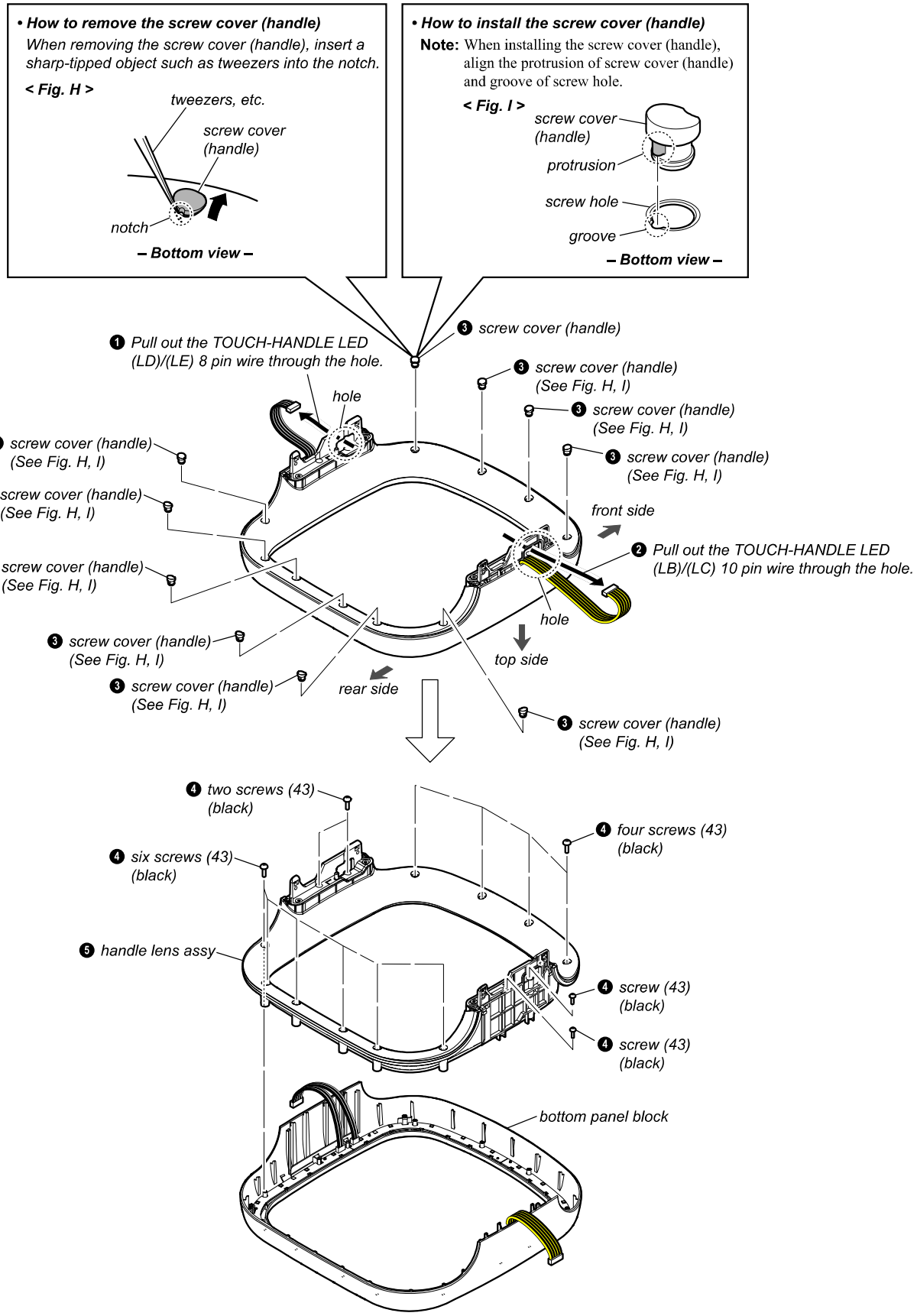




2-8. JACK COVER (TOP) (WIRELESS SPEAKER)

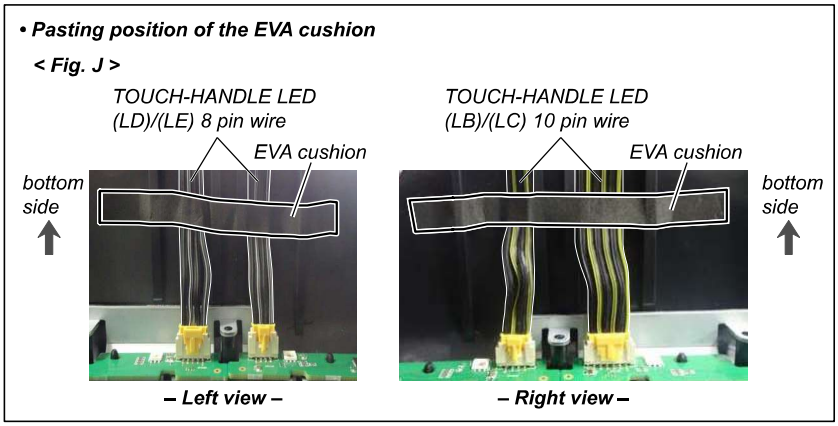


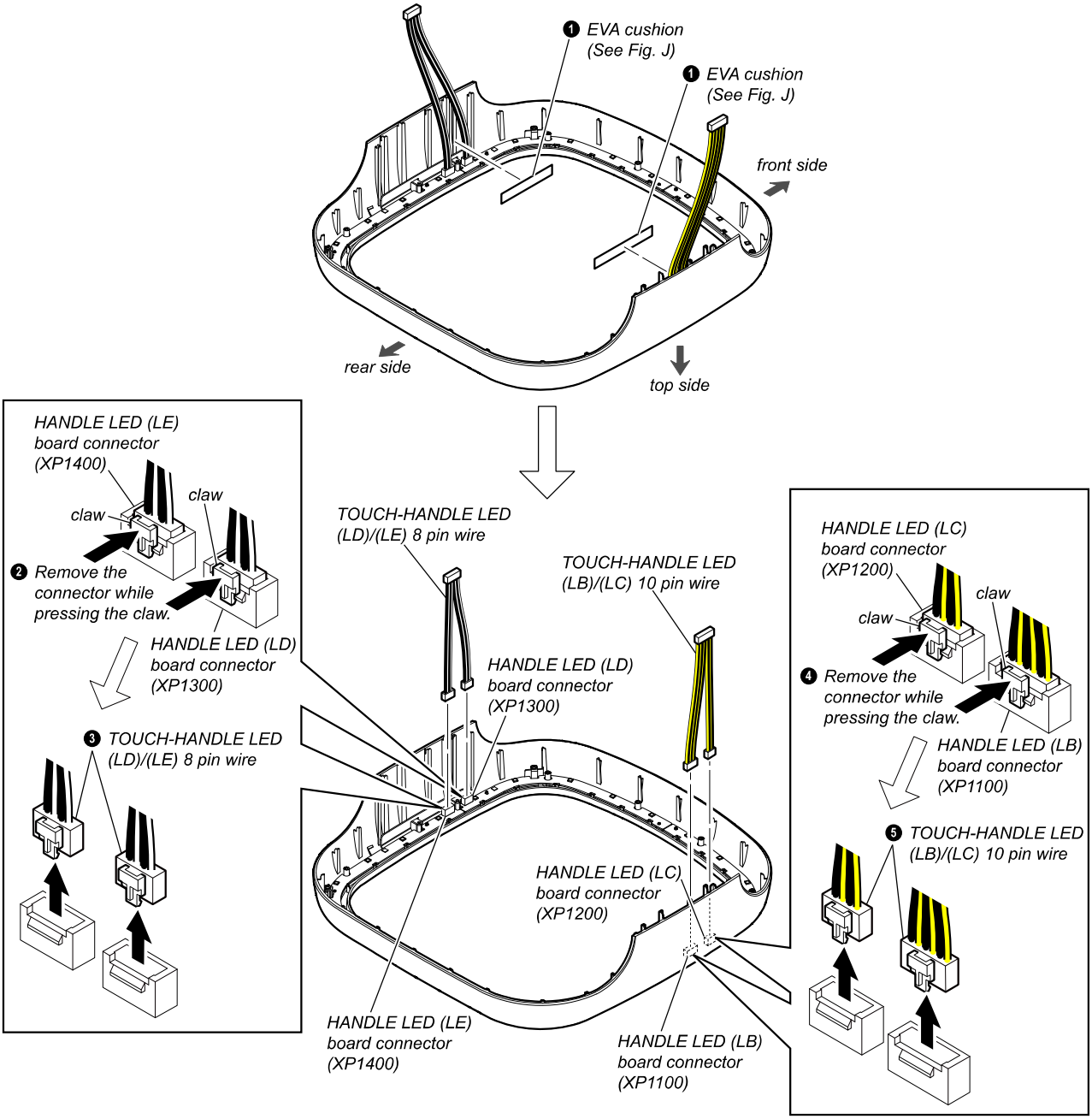
2-9. HANDLE LENS ASSY (WIRELESS SPEAKER)



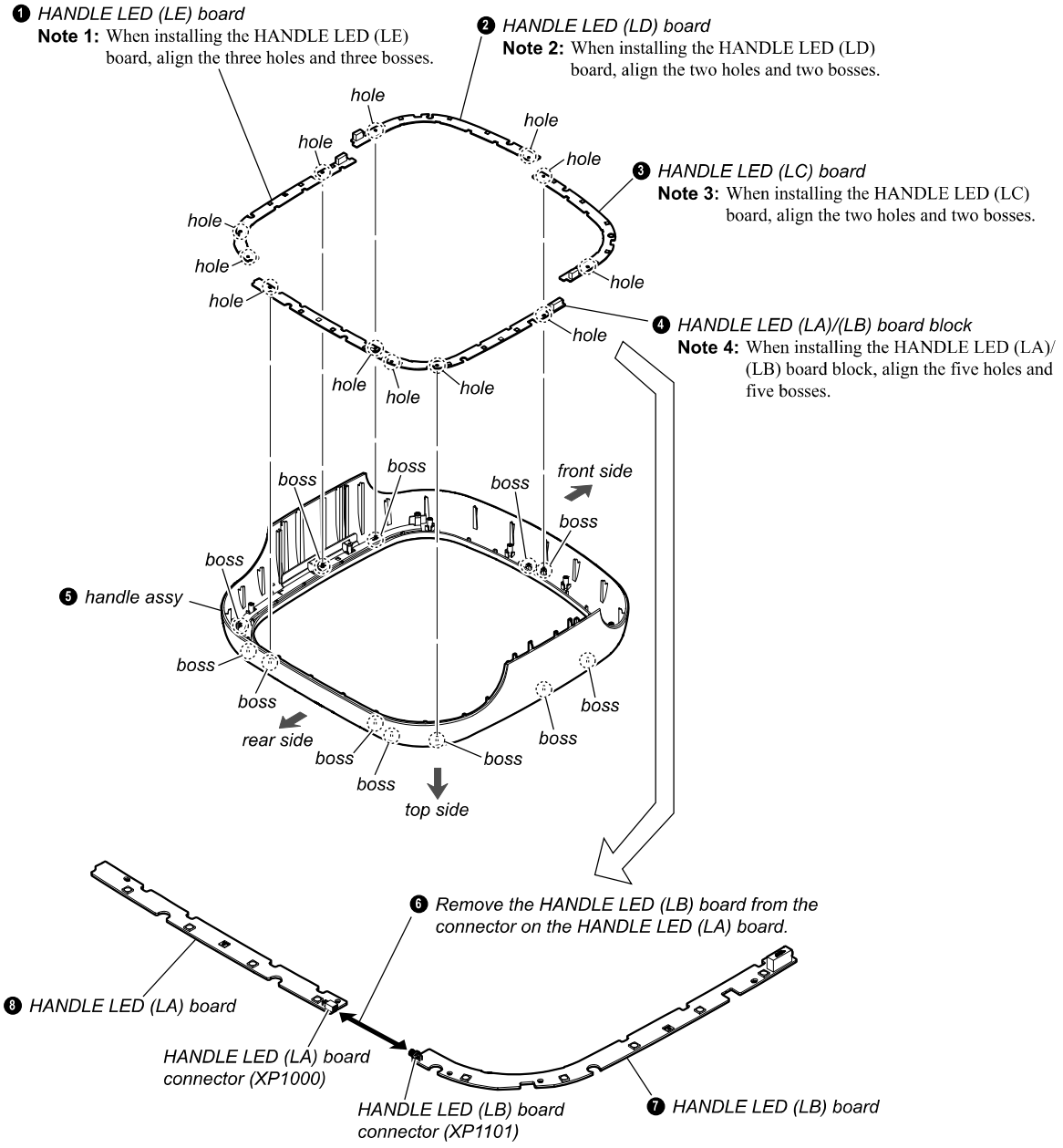
2-10. HANDLE LED (LA)/(LB)/(LC)/(LD)/(LE) BOARDS, HANDLE ASSY-1 (WIRELESS SPEAKER)

• Continued on 2-11 (page 27).





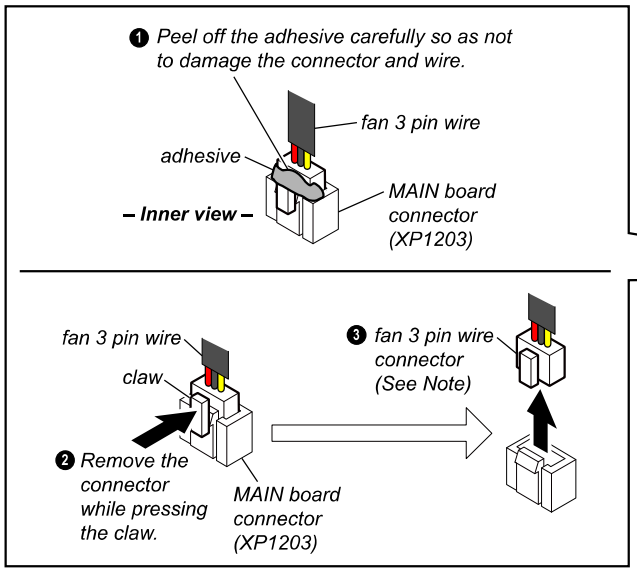
2-11. HANDLE LED (LA)/(LB)/(LC)/(LD)/(LE) BOARDS, HANDLE ASSY-2 (WIRELESS SPEAKER)

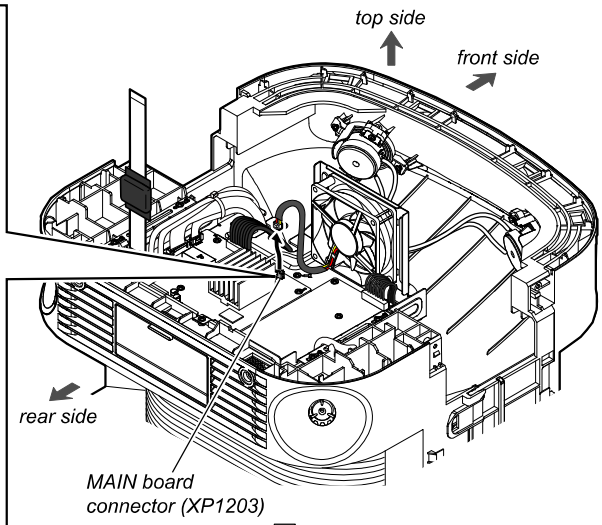


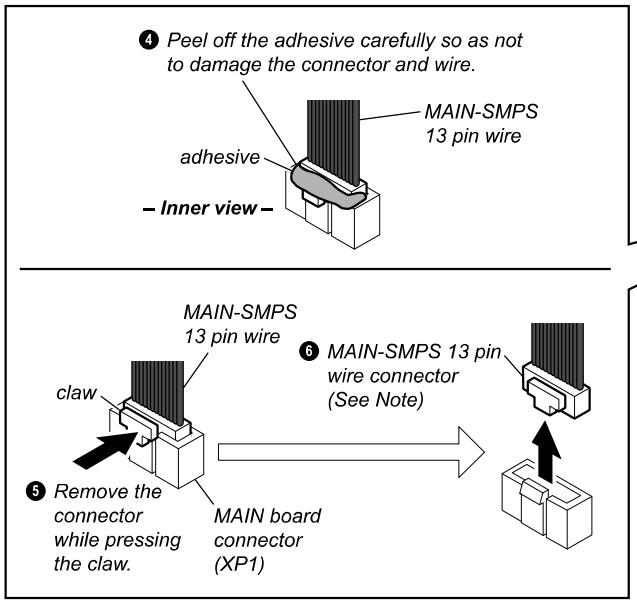
2-12. MAIN BOARD-1 (WIRELESS SPEAKER)

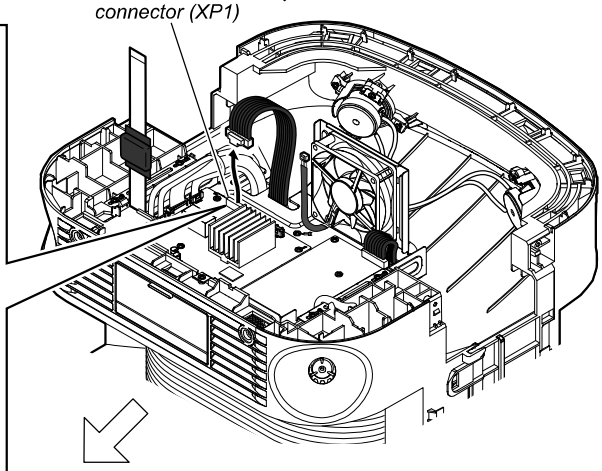
• Continued on 2-13 (page 29).

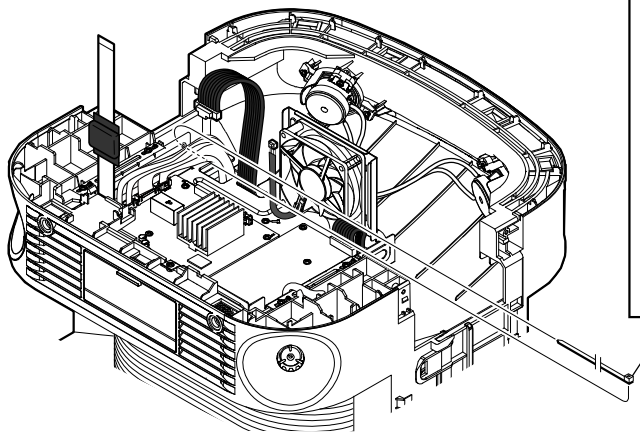
Note 1: The wires connected to the MAIN board are fixed to the connector with adhesive. Therefore, when removing the wires from the connector on the MAIN board, remove the adhesive carefully to avoid damaging the wires, and then remove the wires. Also, if it reconnect the wires, it is not necessary to apply adhesive. Make sure to nsert the wires firmly and correctly into the connector.









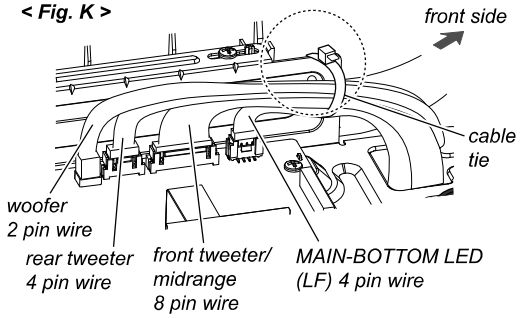


• ***Arrangement when installing the wires***

Arrange the each wire as shown in the figure and and fix with the cable tie.

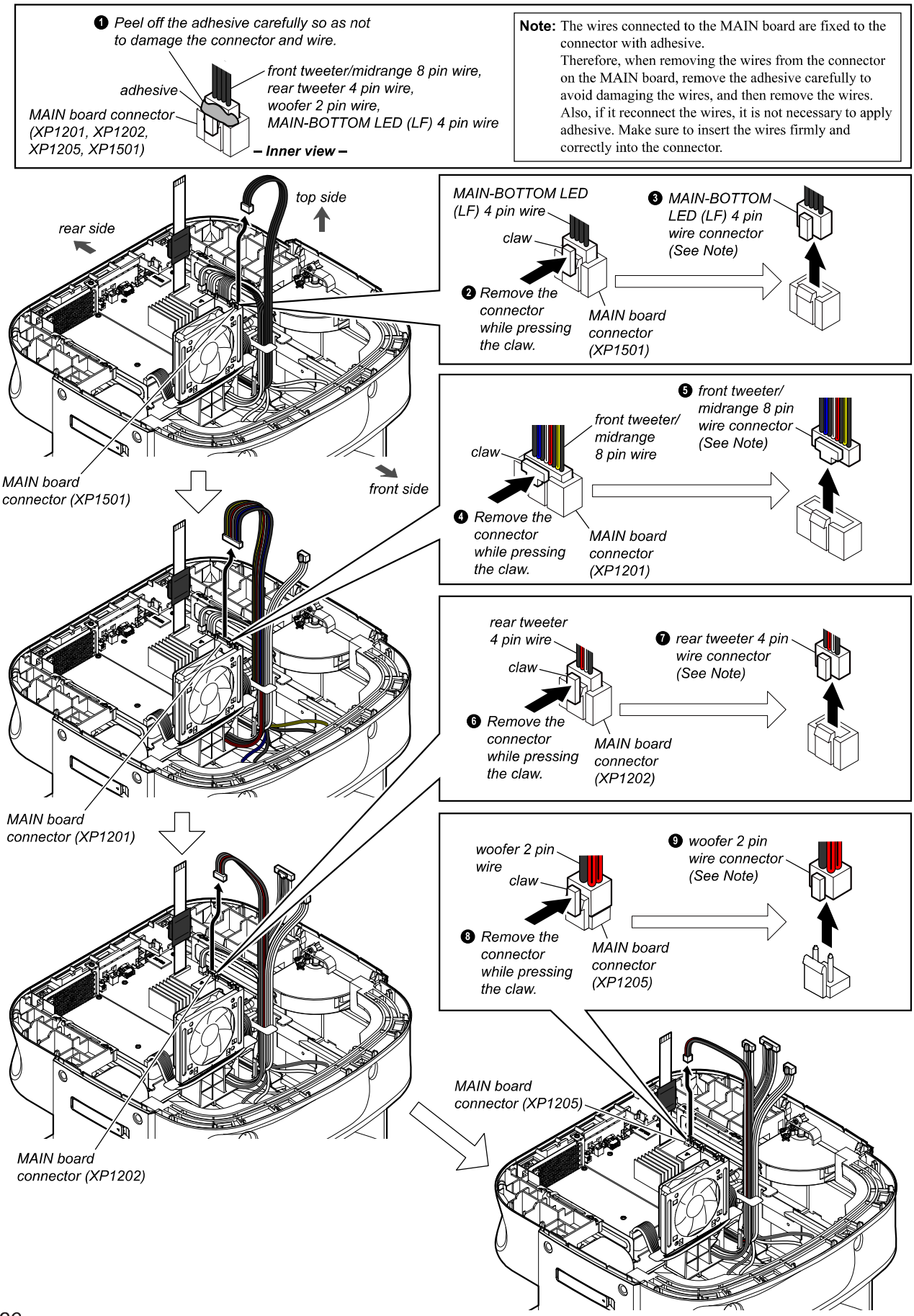
Note 2: When it is cut the cable tie, use a cable tie of commercial products.

< Fig. K >

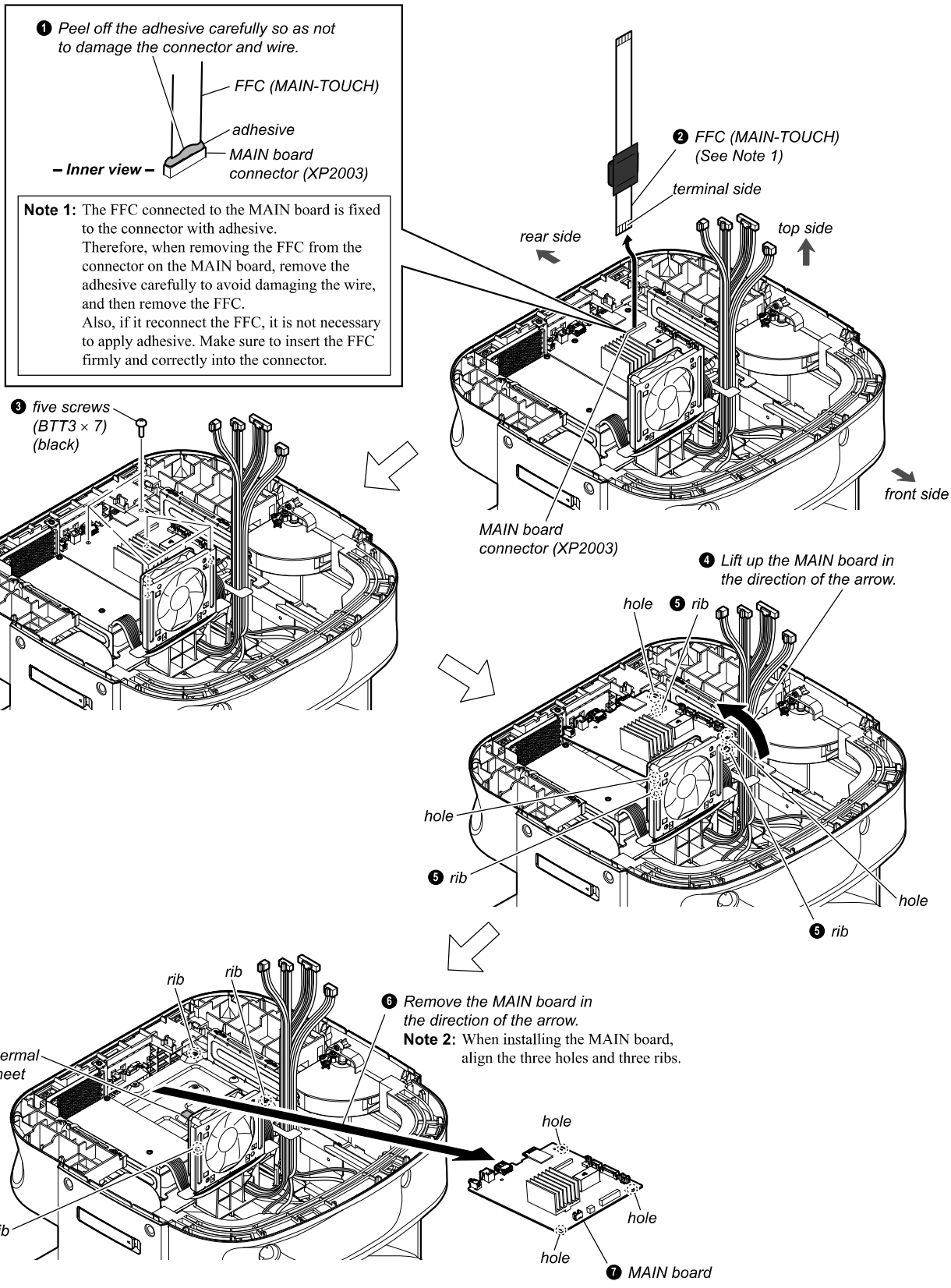


2-13. MAIN BOARD-2 (WIRELESS SPEAKER)

• Continued on 2-14 (page 30).



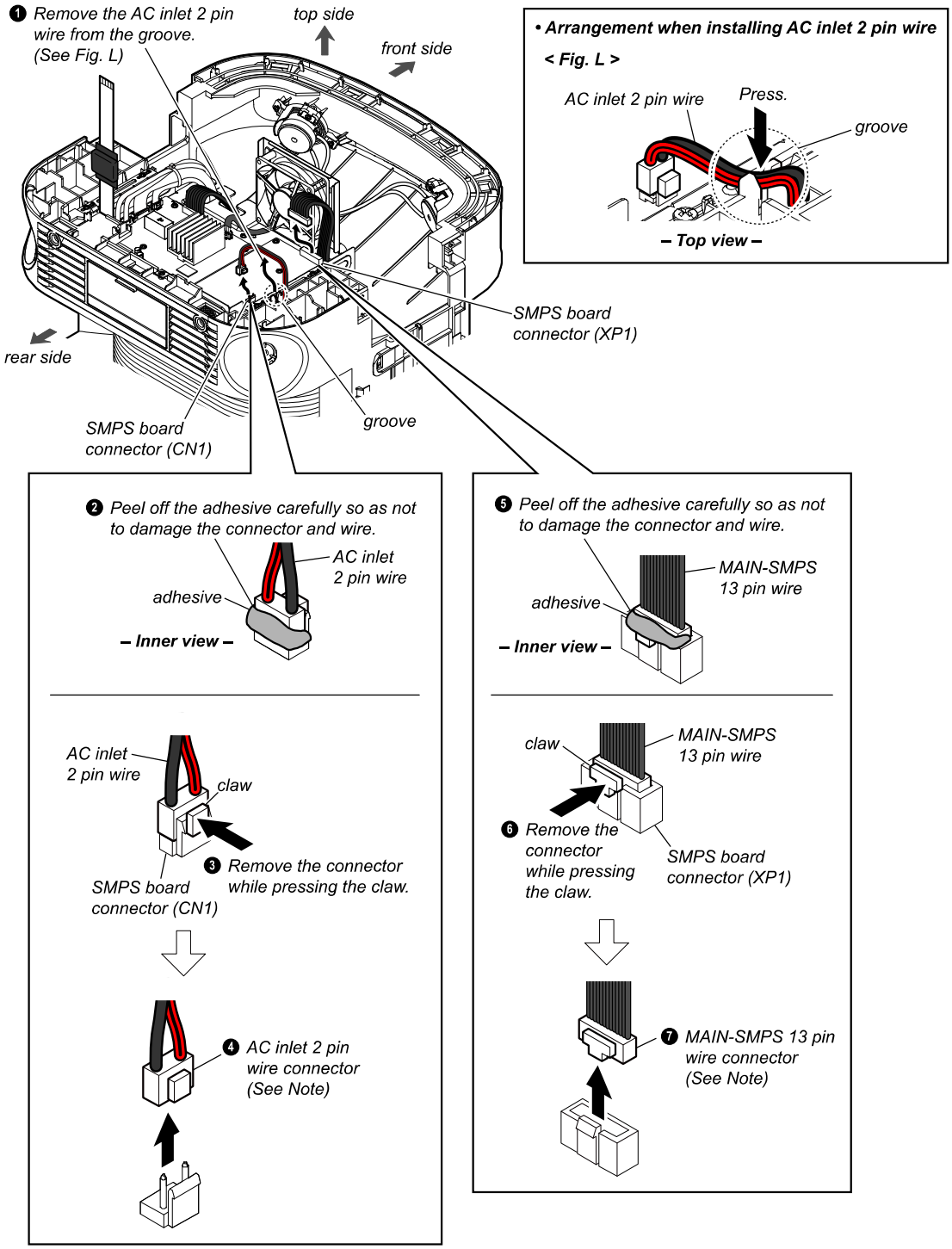
2-14. MAIN BOARD-3 (WIRELESS SPEAKER)



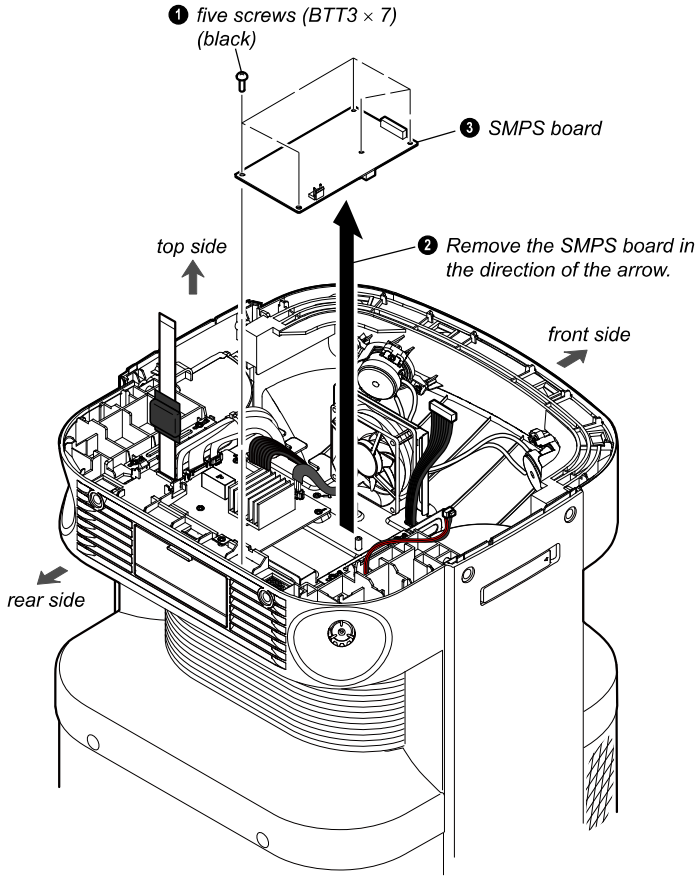
2-15. SMPS BOARD-1 (WIRELESS SPEAKER)

• Continued on 2-16 (page 32).

Note: The wires connected to the SMPS board are fixed to the connector with adhesive. Therefore, when removing the wires from the connector on the SMPS board, remove the adhesive carefully to avoid damaging the wires, and then remove the wires. Also, if it reconnect the wires, it is not necessary to apply adhesive. Make sure to insert the wires firmly and correctly into the connector.

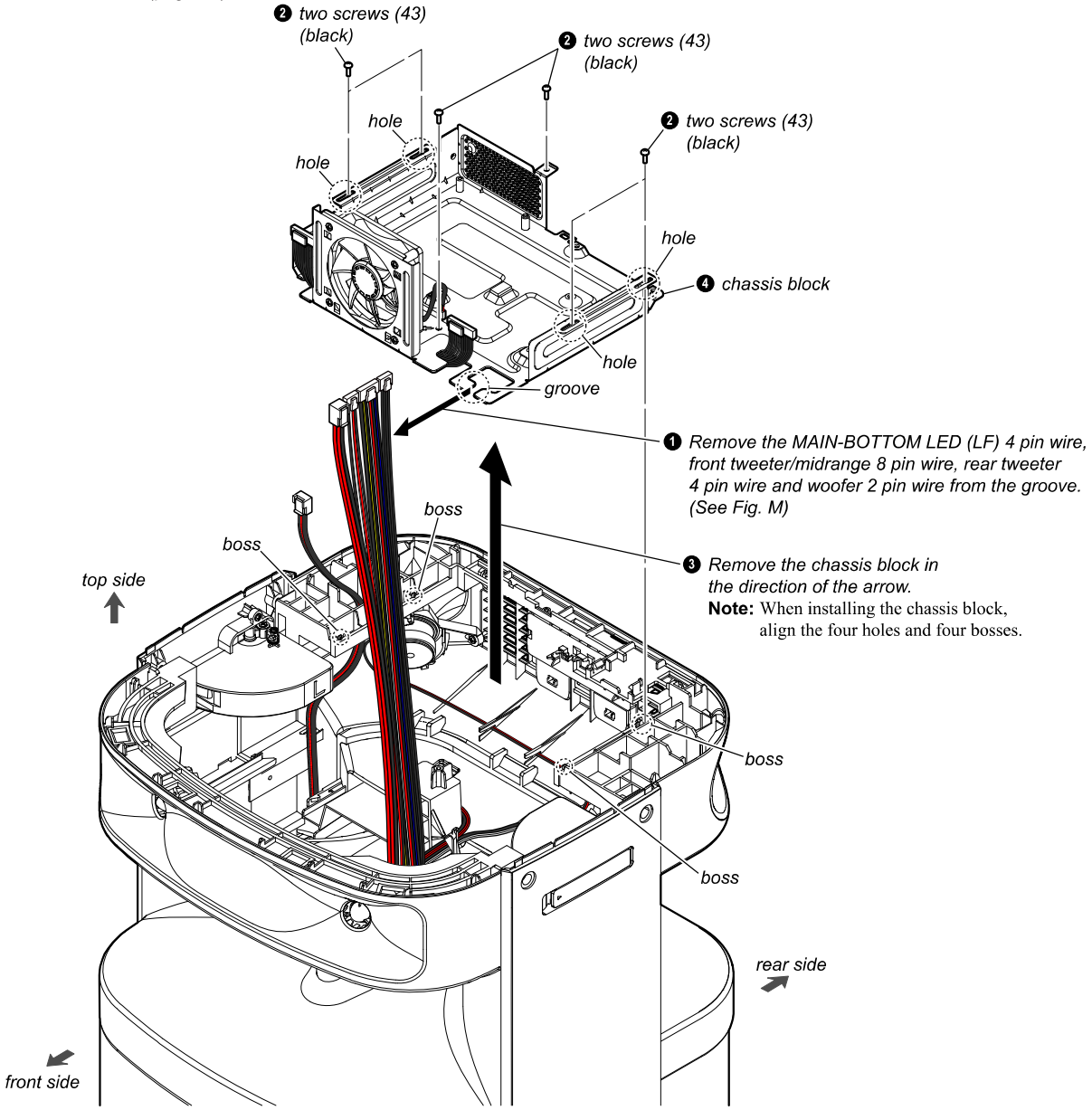


2-16. SMPS BOARD-2 (WIRELESS SPEAKER)



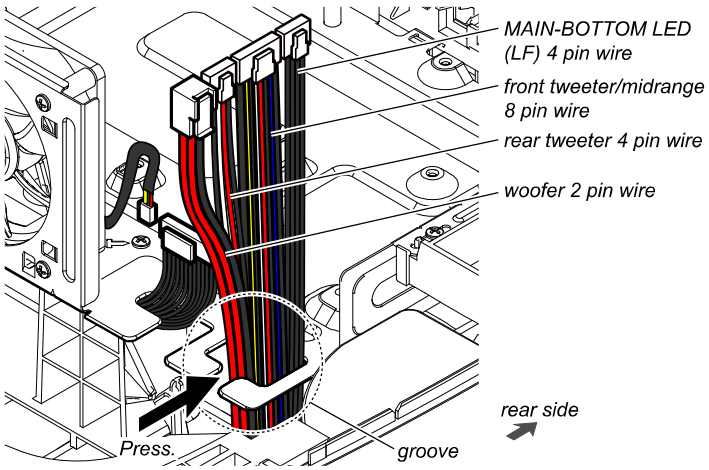
2-17. CHASSIS, FAN-1 (WIRELESS SPEAKER)

• Continued on 2-18 (page 34).

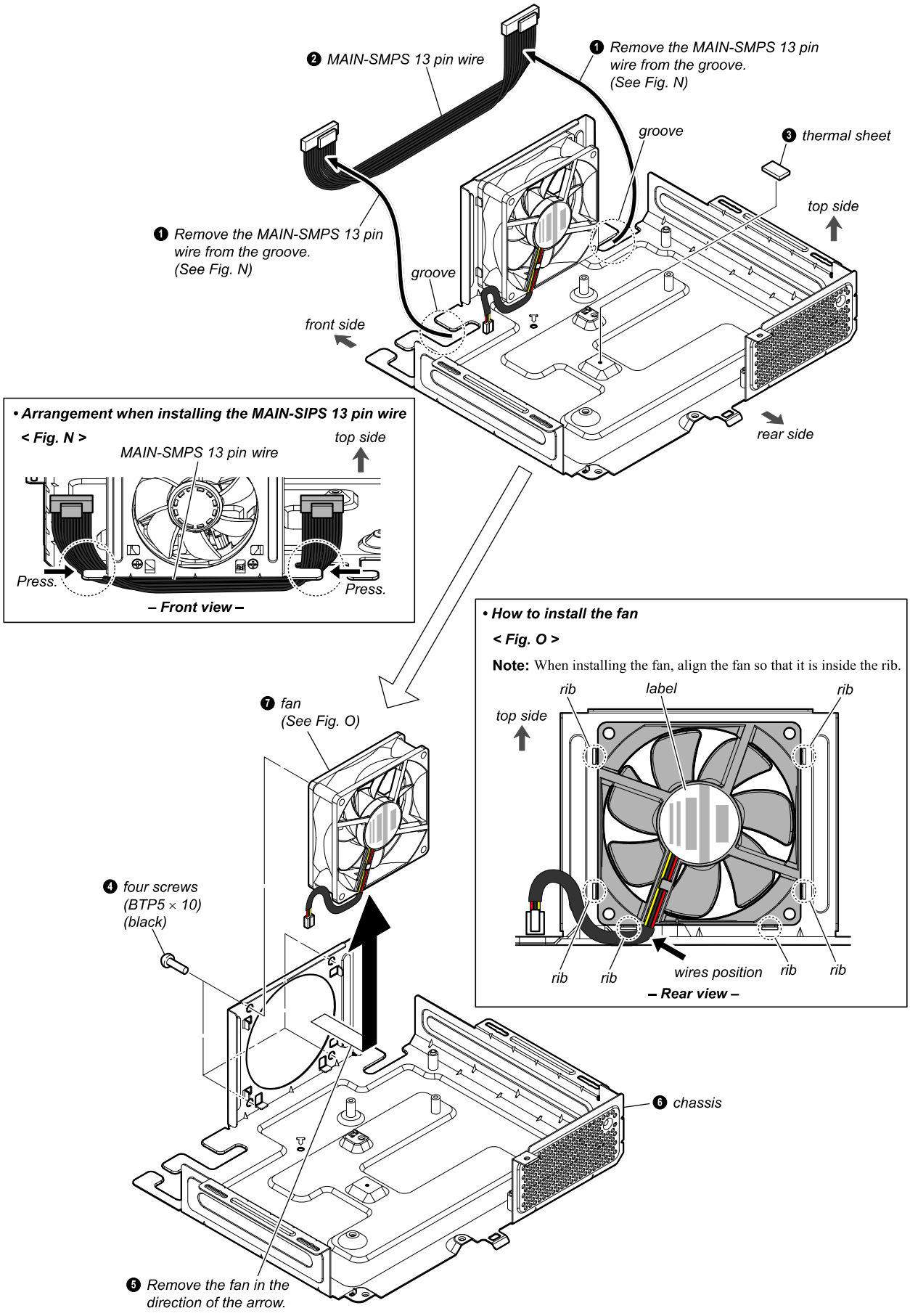


• Arrangement when installing the wires

< Fig. M >

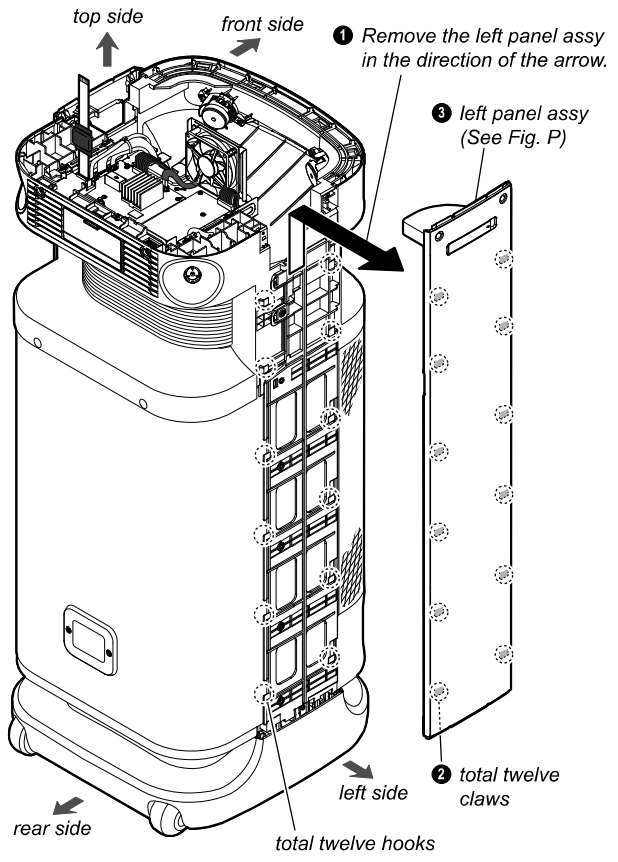


2-18. CHASSIS, FAN-2 (WIRELESS SPEAKER)

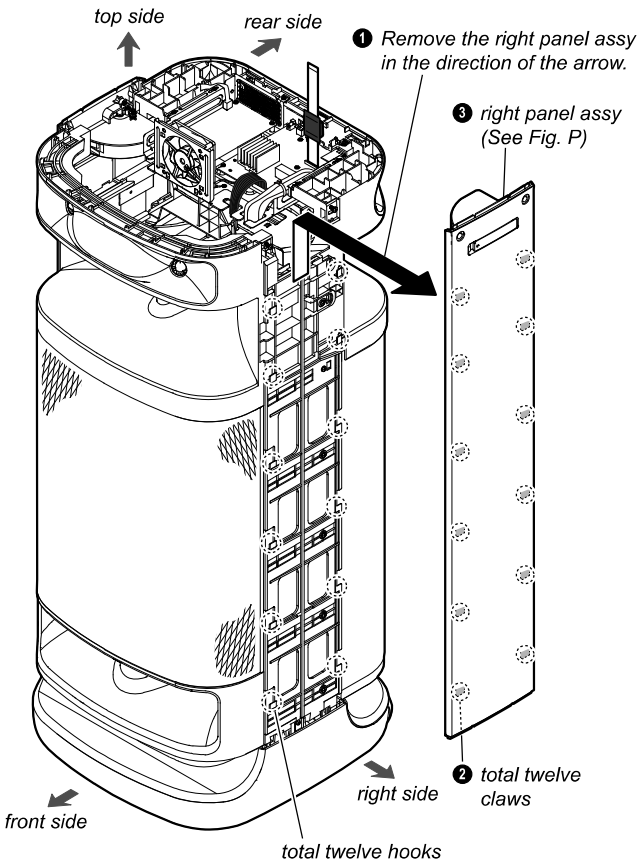


2-19. LEFT PANEL ASSY, RIGHT PANEL ASSY (WIRELESS SPEAKER)

Left side



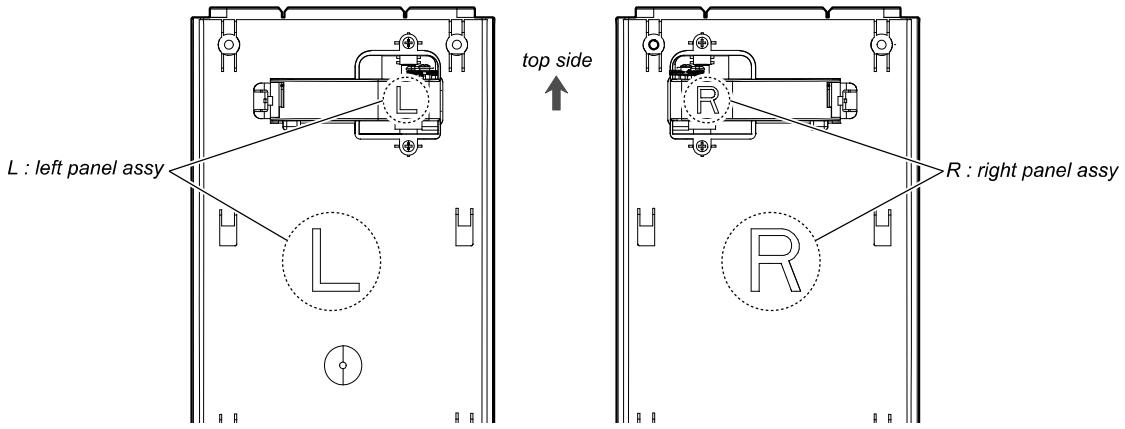
Right side



• How to identify the left panel assy and right panel assy

Left panel assy and right panel assy are engraved with the letters "L" and "R".
Check the engraved letters to identify the left panel assy and right panel assy.

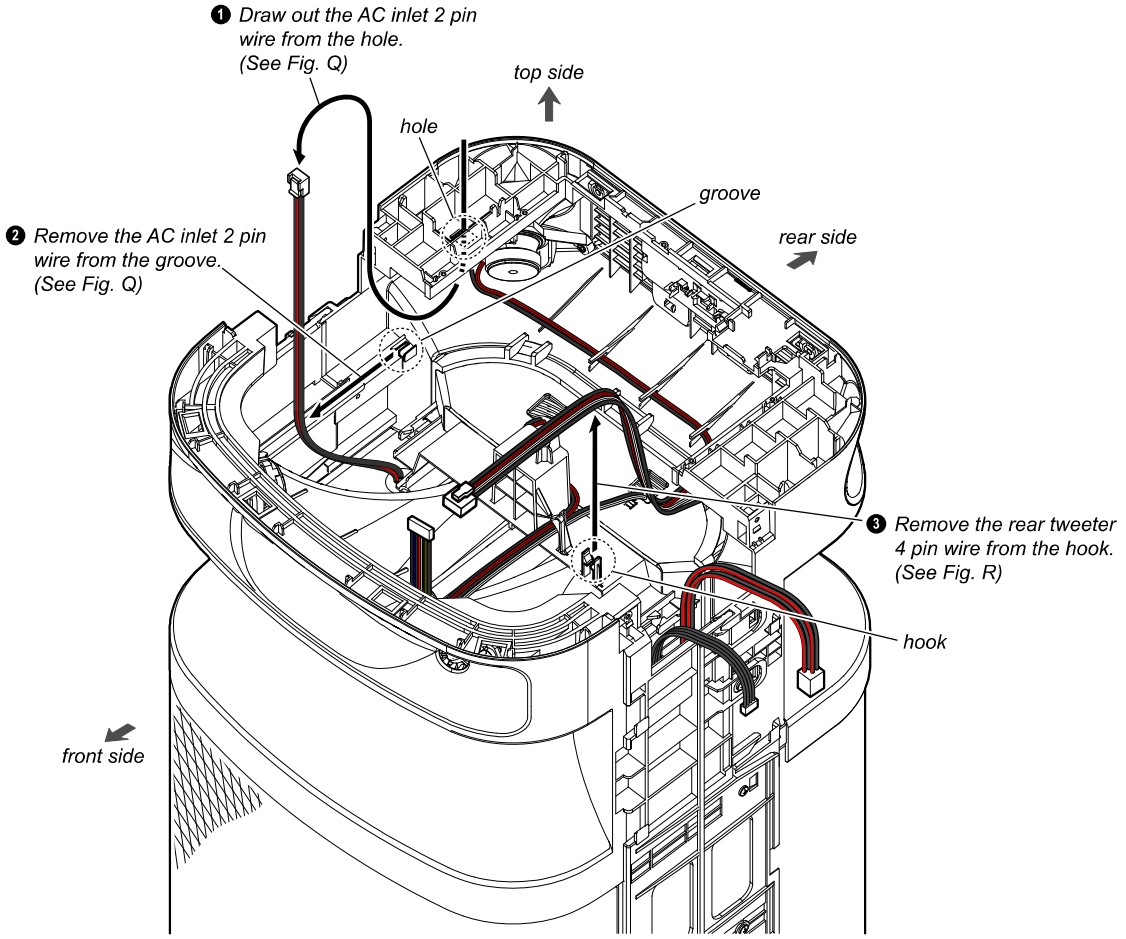
< Fig. P >



– Inner view –

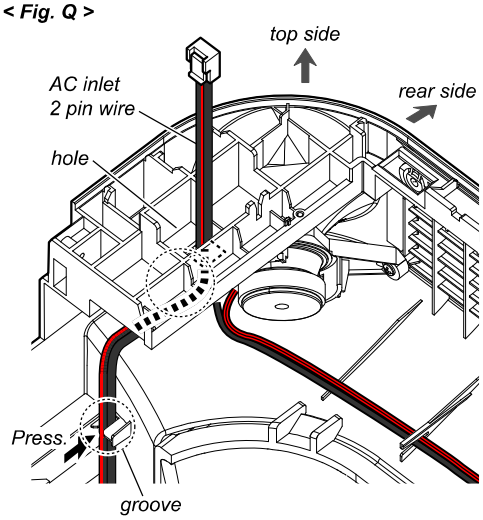
2-20. REAR CABINET BLOCK-1 (WIRELESS SPEAKER)

• Continued on 2-21 (page 37).



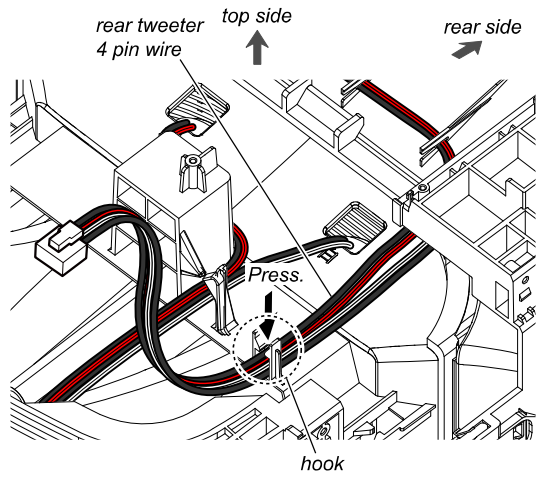
• Arrangement when installing the AC inlet 2 pin wire

< Fig. Q >



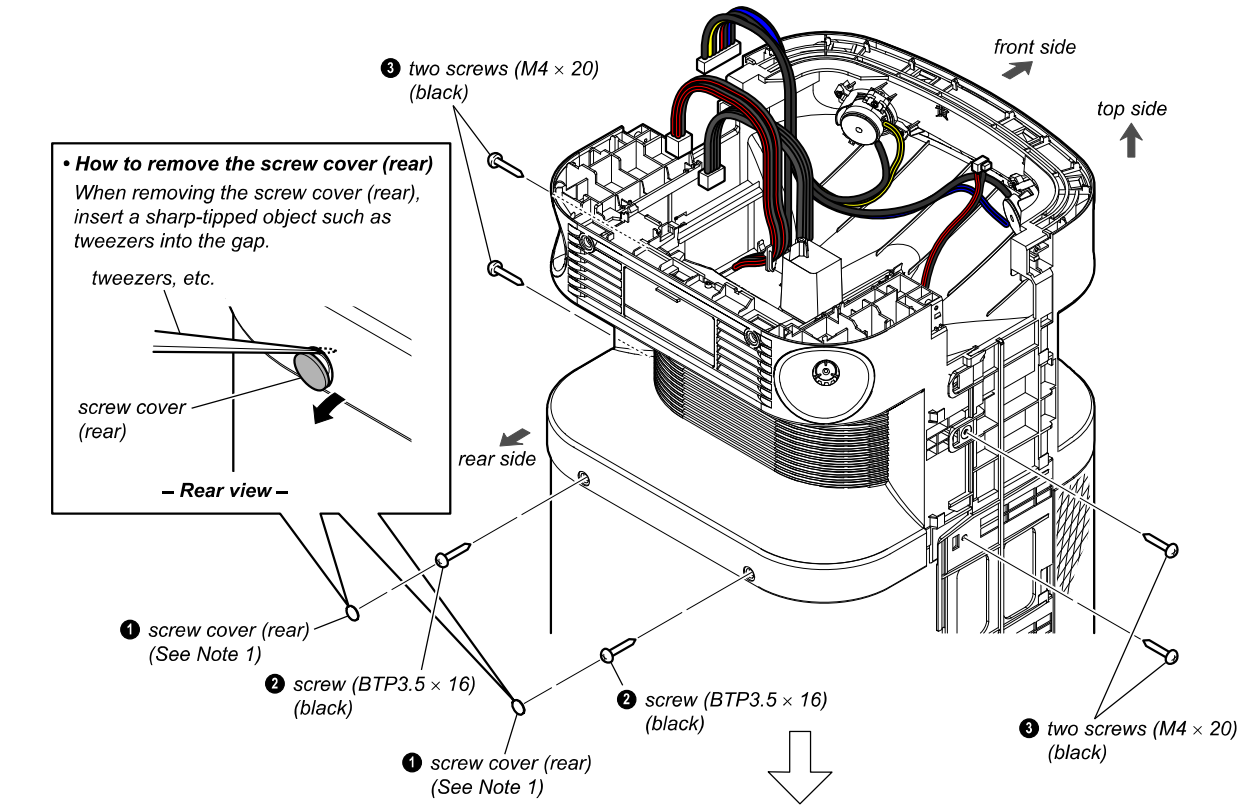
• Arrangement when installing the rear tweeter 4 pin wire

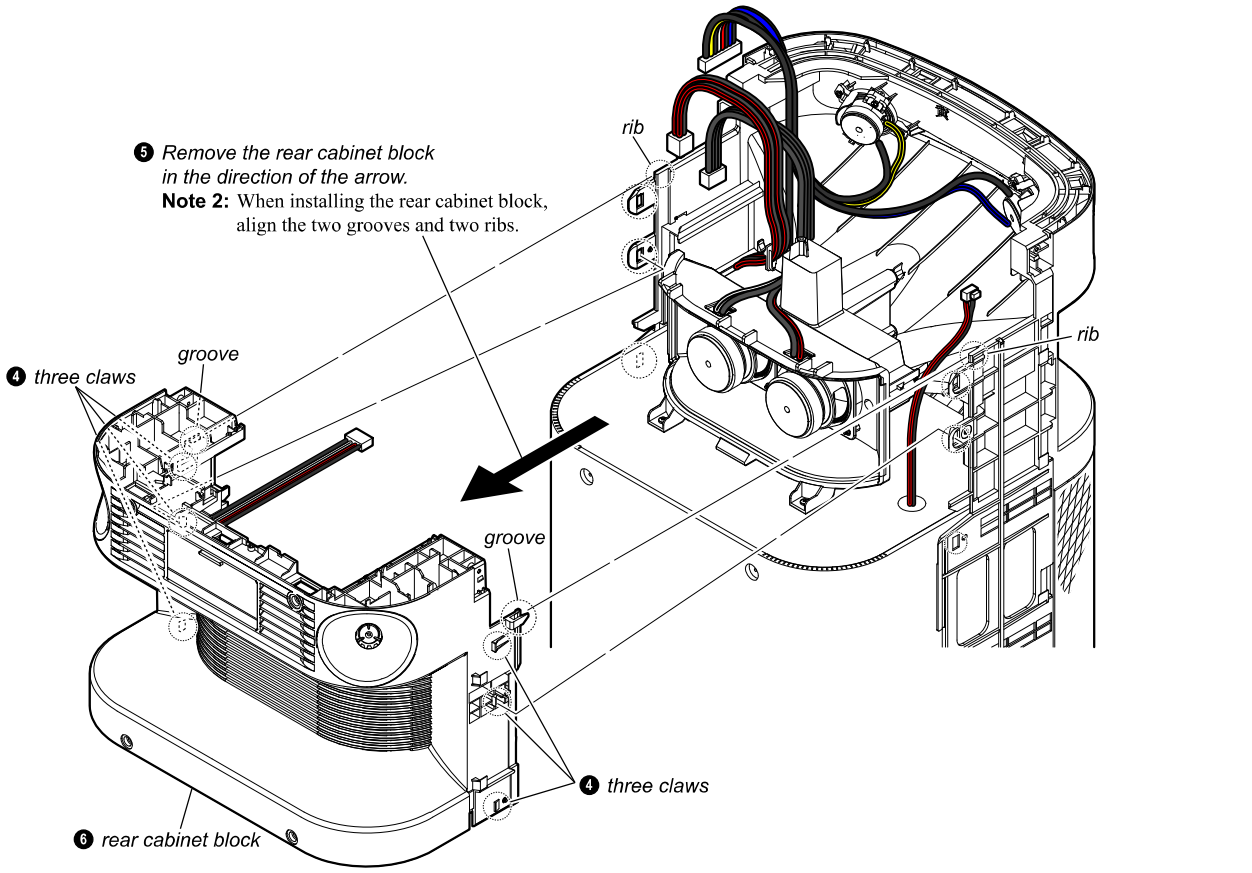
< Fig. R >



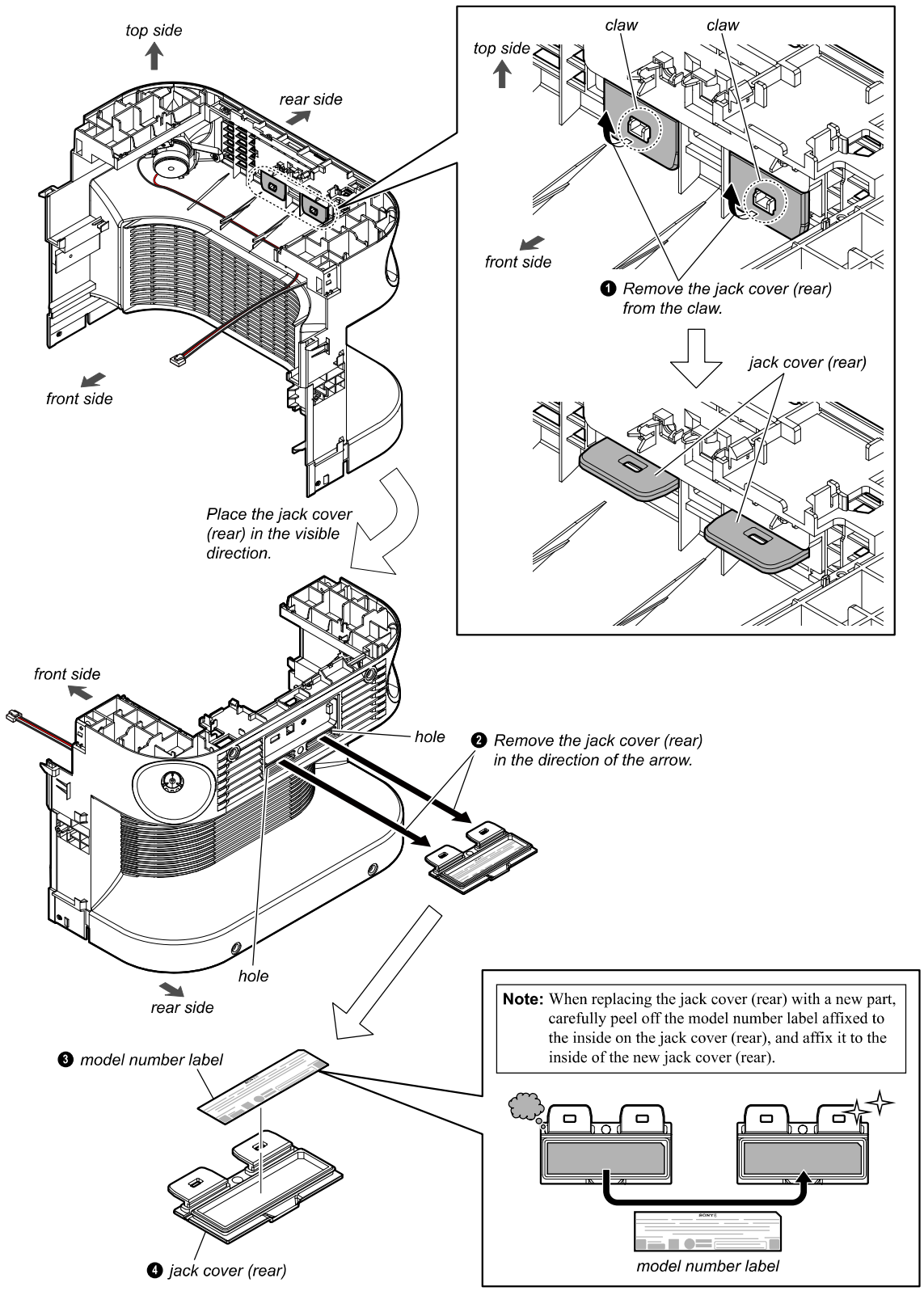
2-21. REAR CABINET BLOCK-2 (WIRELESS SPEAKER)

Note 1: When reusing the screw cover (rear) for installation, make sure that the screw cover (rear) is not weakened of the adhesive strength, broken, or damaged. If there is weakened of the adhesive strength, broken, or damaged, do not reuse the screw cover (rear) and replace it with a new part.

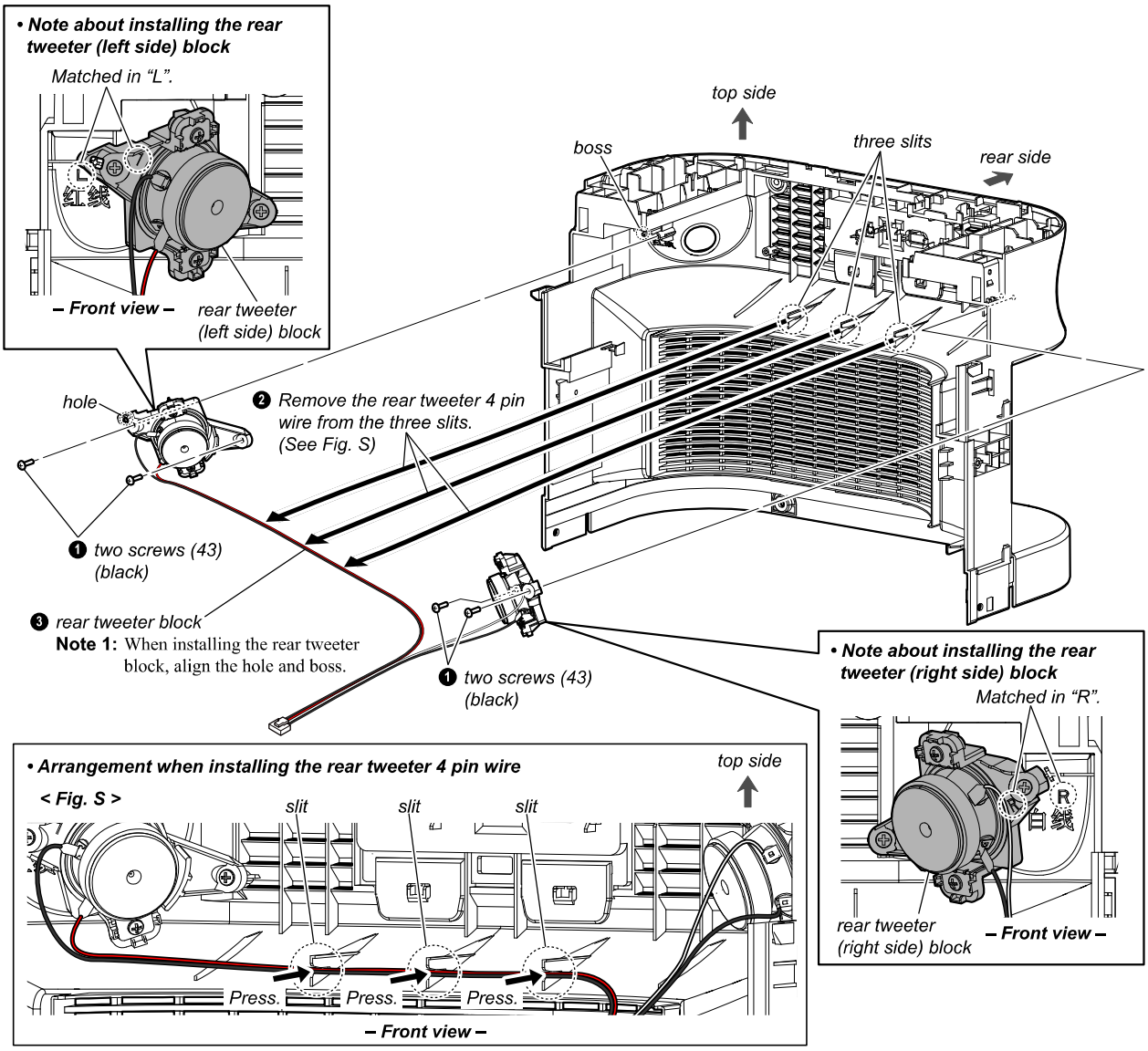


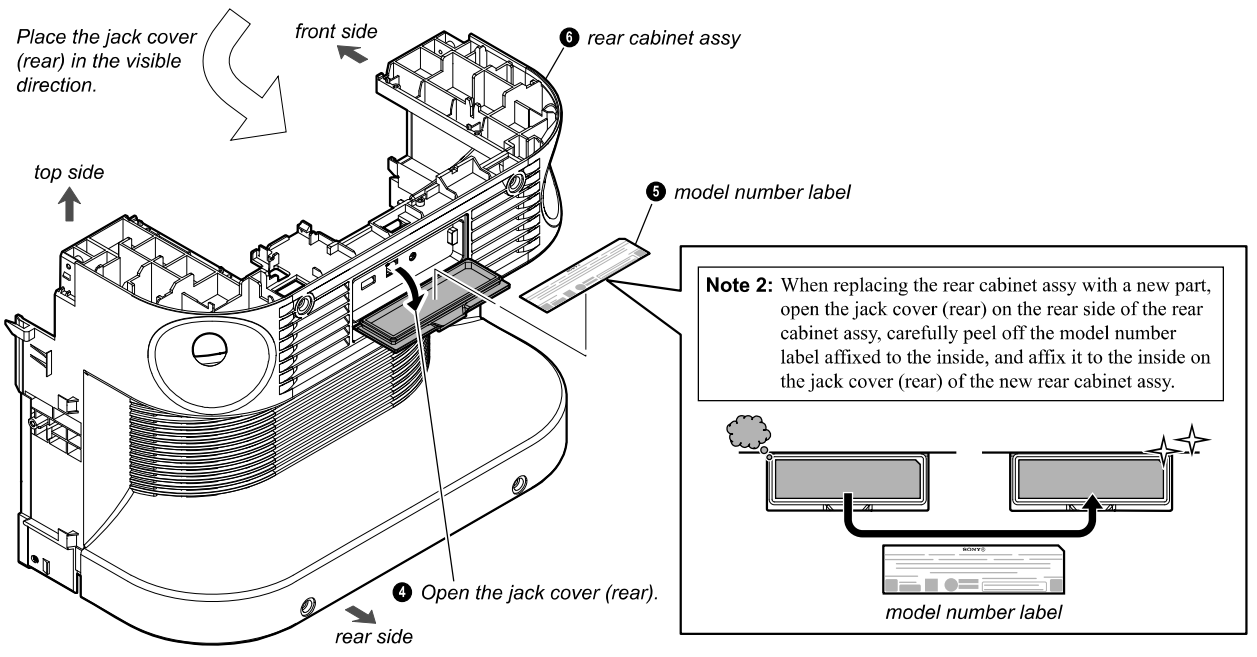


2-22. JACK COVER (REAR) (WIRELESS SPEAKER)

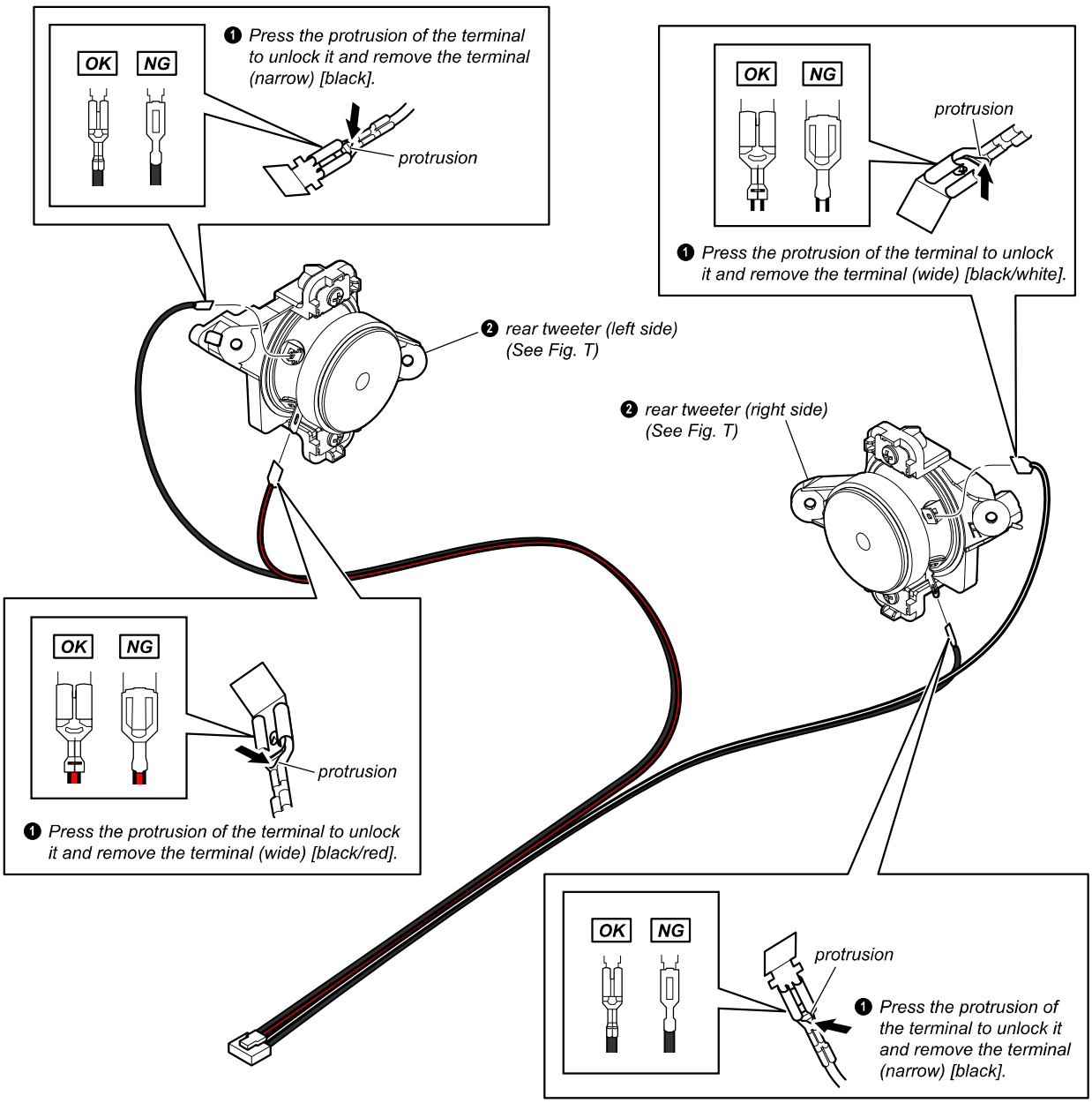


2-23. REAR CABINET ASSY (WIRELESS SPEAKER)





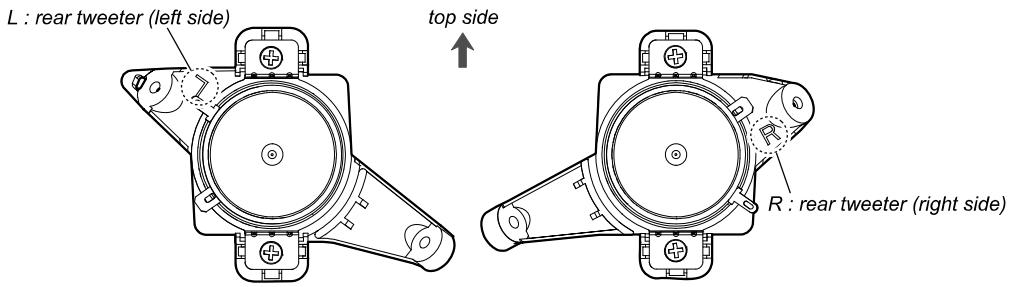
2-24. REAR TWEETER (WIRELESS SPEAKER)



• How to identify the rear tweeter (left side) and rear tweeter (right side)

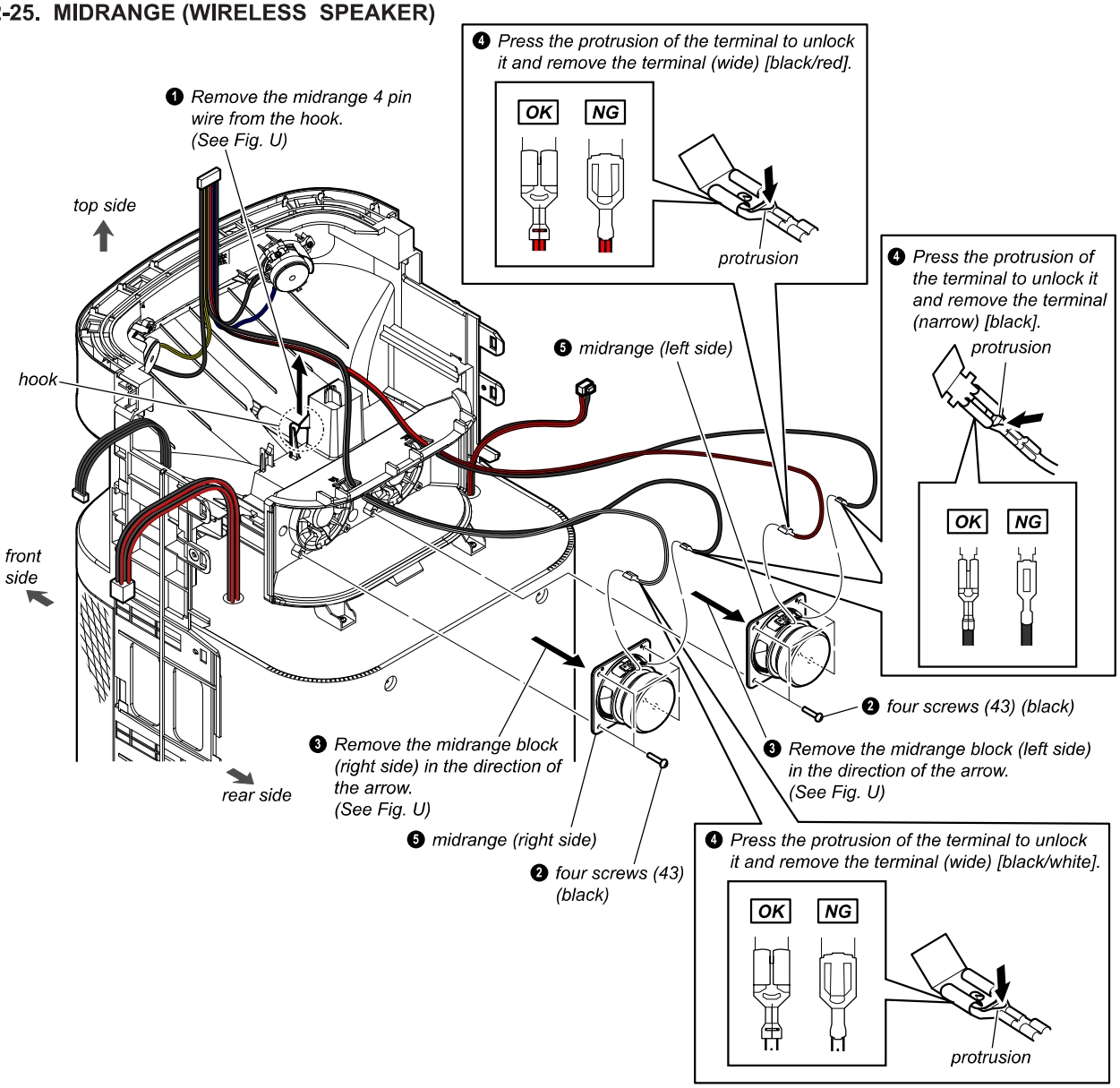
Rear tweeter (left side) and rear tweeter (right side) are engraved with the letters "L" and "R".
Check the engraved letters to identify the rear tweeter (left side) and rear tweeter (right side).

< Fig. T >



– Rear view –

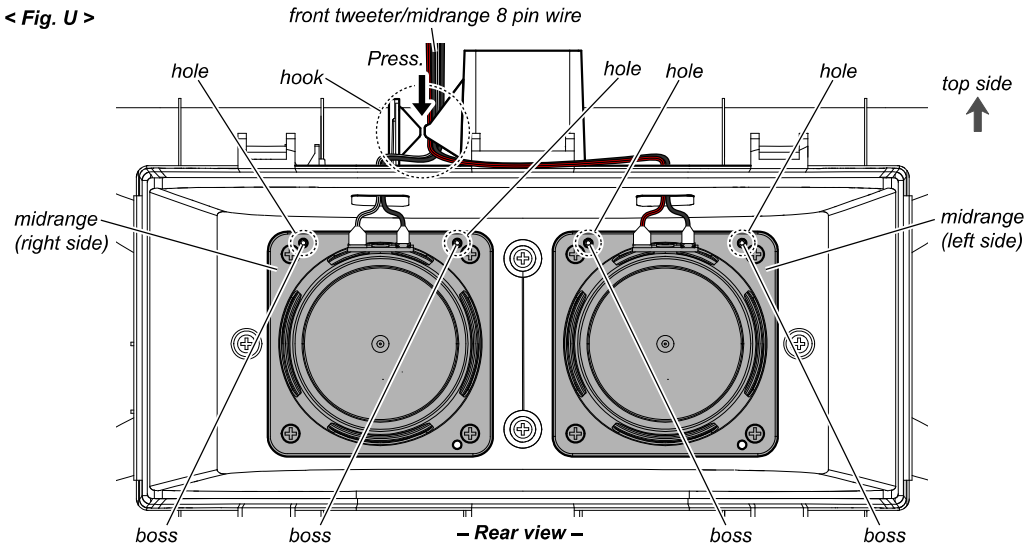
2-25. MIDRANGE (WIRELESS SPEAKER)



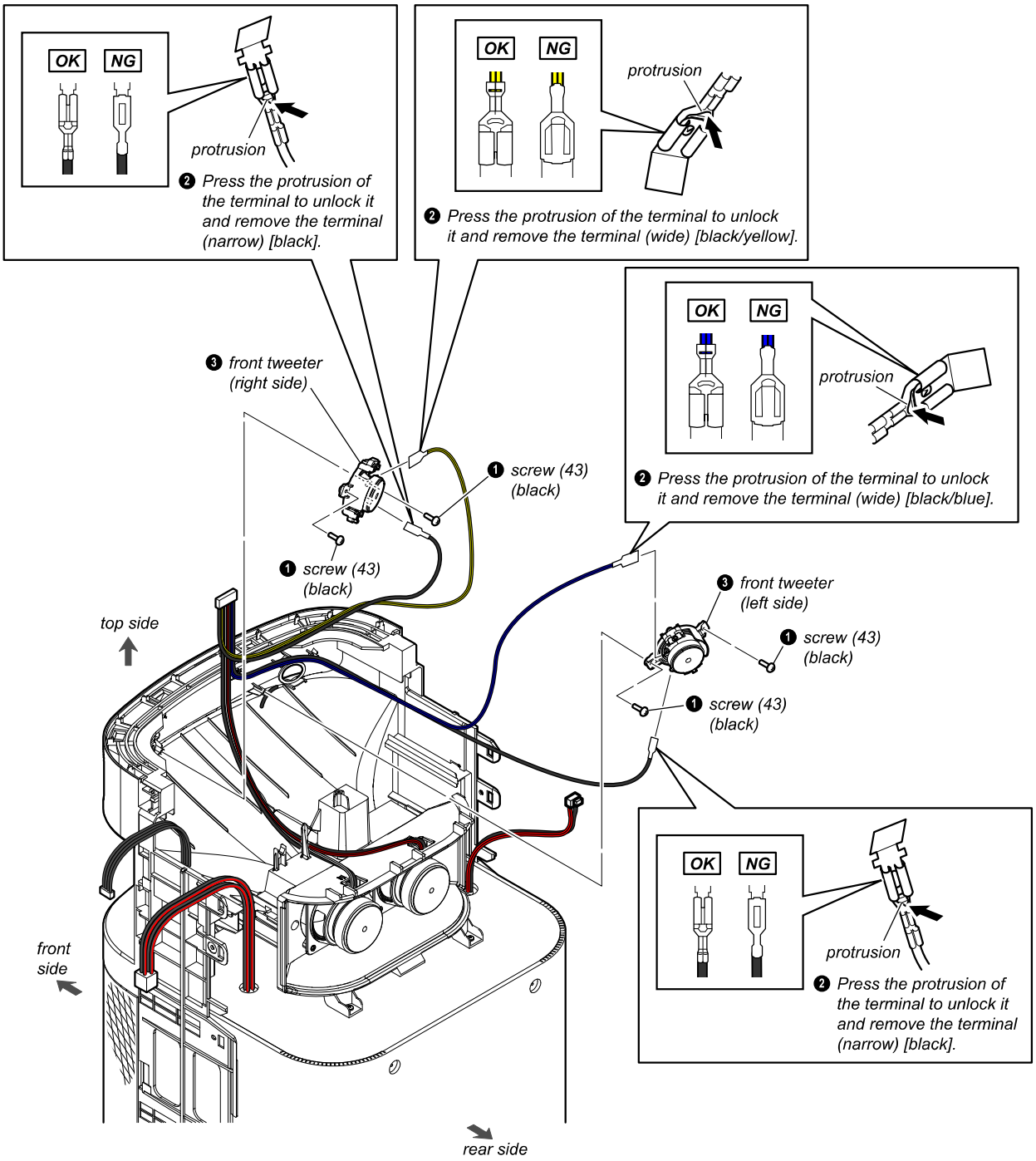
• ***How to install the midrange and arrangement when installing the front tweeter/midrange 8 pin wire***

Note: When installing the midrange, align the four holes and four bosses.

< Fig. U >



2-26. FRONT TWEETER (WIRELESS SPEAKER)



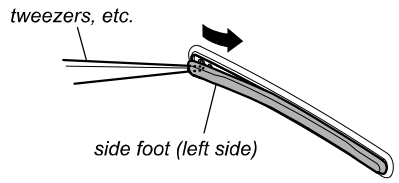
2-27. BOTTOM PANEL ASSY (WIRELESS SPEAKER)

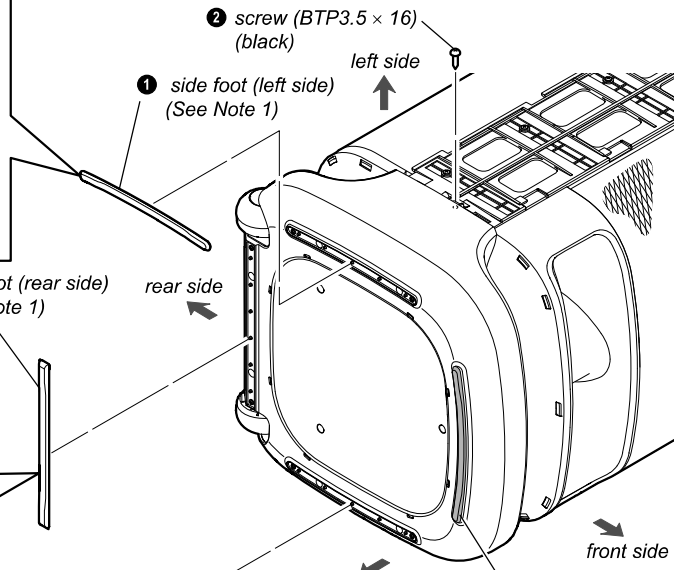
Note 1: When reusing the foot (front or side or rear) for installation, make sure that the foot (front or side or rear) is not weakened of the adhesive strength, broken, or damaged. If there is weakened of the adhesive strength, broken, or damaged, do not reuse the foot (front or side or rear) and replace it with a new part.

• How to remove the side foot (left side)

When removing the side foot (left side), insert a sharp-tipped object such as tweezers into the gap.

– Bottom view –

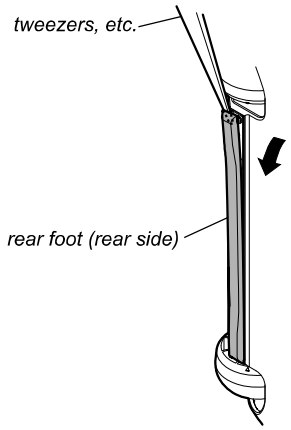




Note 2: When removing the bottom panel assy, no need to remove this foot.

• How to remove the rear foot (rear side)

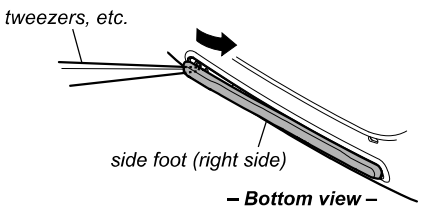
When removing the rear foot (rear side), insert a sharp-tipped object such as tweezers into the gap.



– Bottom view –

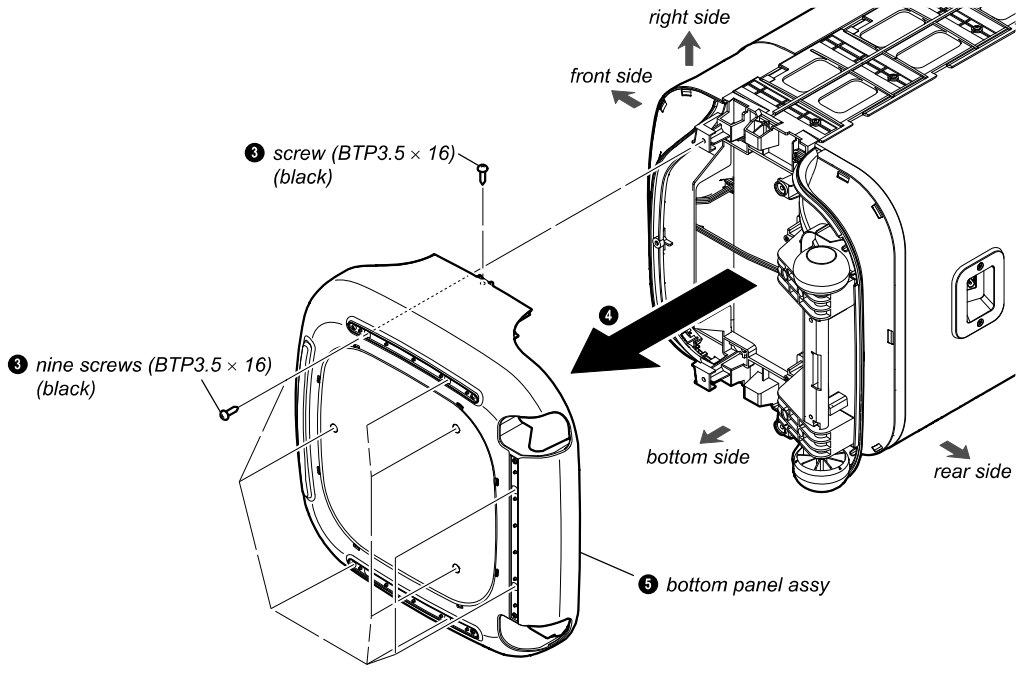
• How to remove the side foot (right side)

When removing the side foot (right side), insert a sharp-tipped object such as tweezers into the gap.

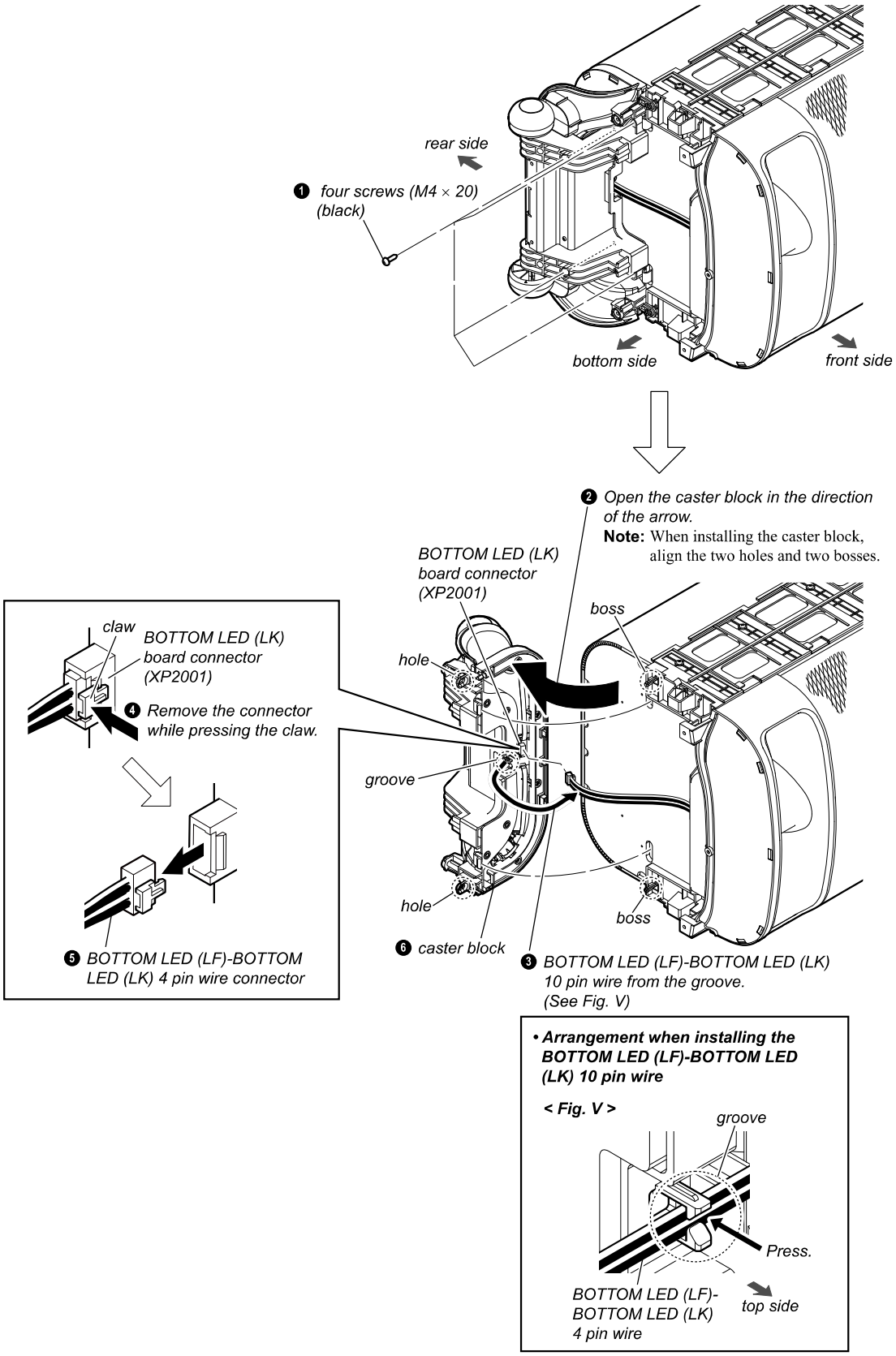


– Bottom view –

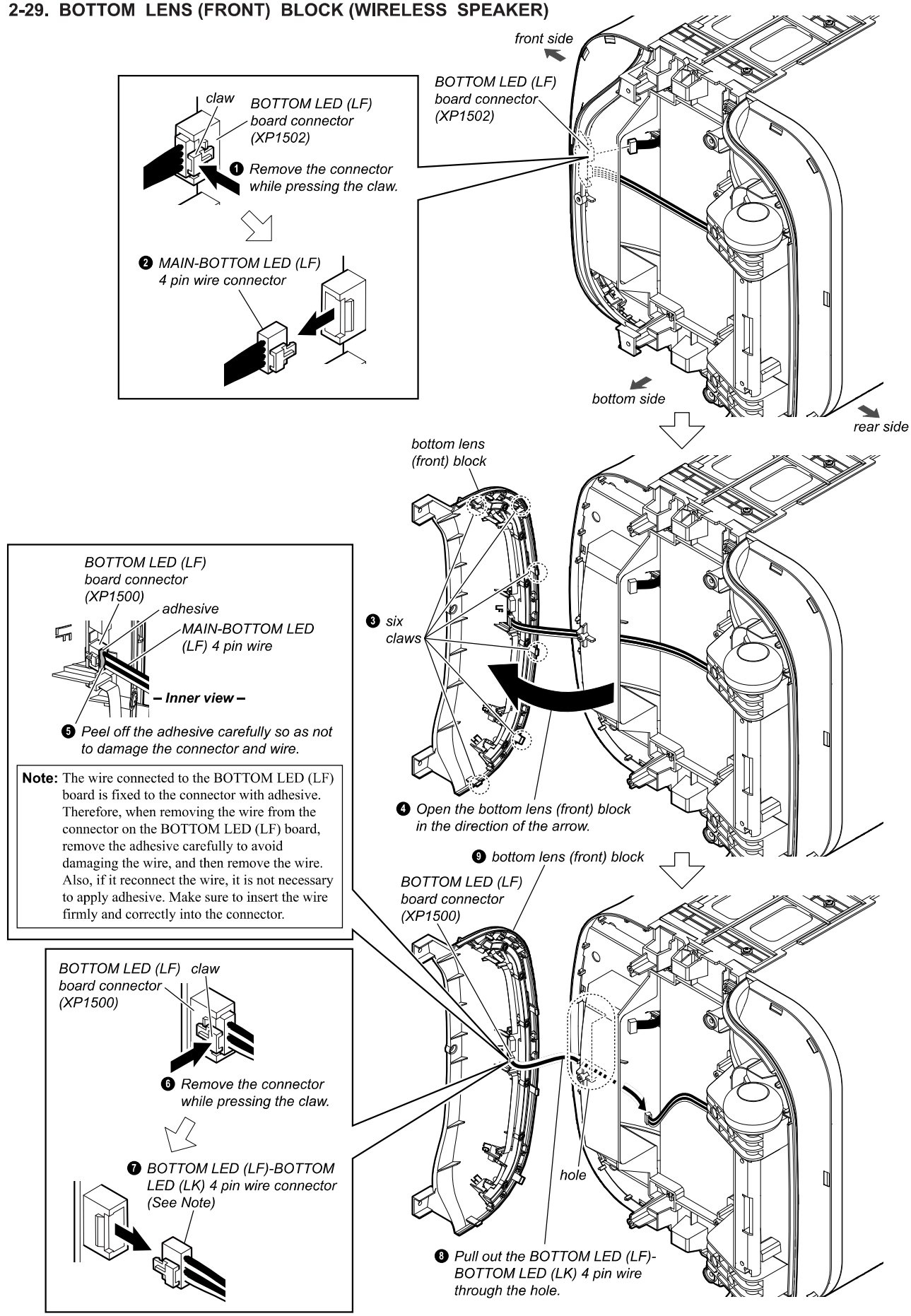
Turn the opposite side facing up.



2-28. CASTER BLOCK (WIRELESS SPEAKER)



2-29. BOTTOM LENS (FRONT) BLOCK (WIRELESS SPEAKER)



Note: The wire connected to the BOTTOM LED (LF) board is fixed to the connector with adhesive. Therefore, when removing the wire from the connector on the BOTTOM LED (LF) board, remove the adhesive carefully to avoid damaging the wire, and then remove the wire. Also, if it reconnect the wire, it is not necessary to apply adhesive. Make sure to insert the wire firmly and correctly into the connector.

2-30. BOTTOM LED (LG2)/(LH2)/(LI2)/(LJ2)/(LK) BOARDS, CASTER ASSY-1 (WIRELESS SPEAKER)

• Continued on 2-31 (page 47).

• How to remove the FFC

< Fig. W >

❶ *Peel off the adhesive carefully so as not to damage the connector and FFC.*

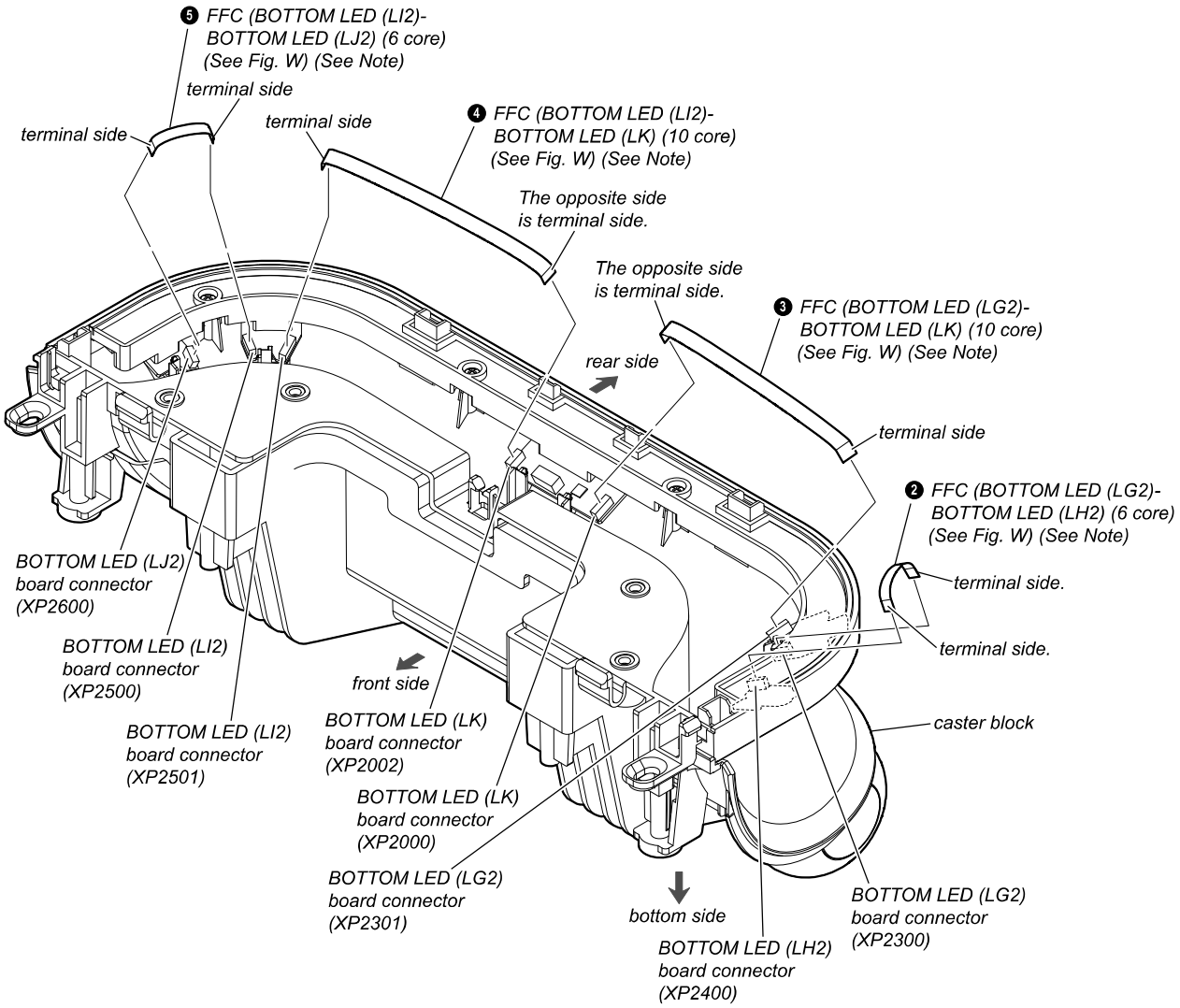
FFC (BOTTOM LED (LG2)-BOTTOM LED (LH2) (6 core),
FFC (BOTTOM LED (LG2)-BOTTOM LED (LK) (10 core),
FFC (BOTTOM LED (LI2)-BOTTOM LED (LK) (10 core),
FFC (BOTTOM LED (LI2)-BOTTOM LED (LJ2) (6 core)

adhesive

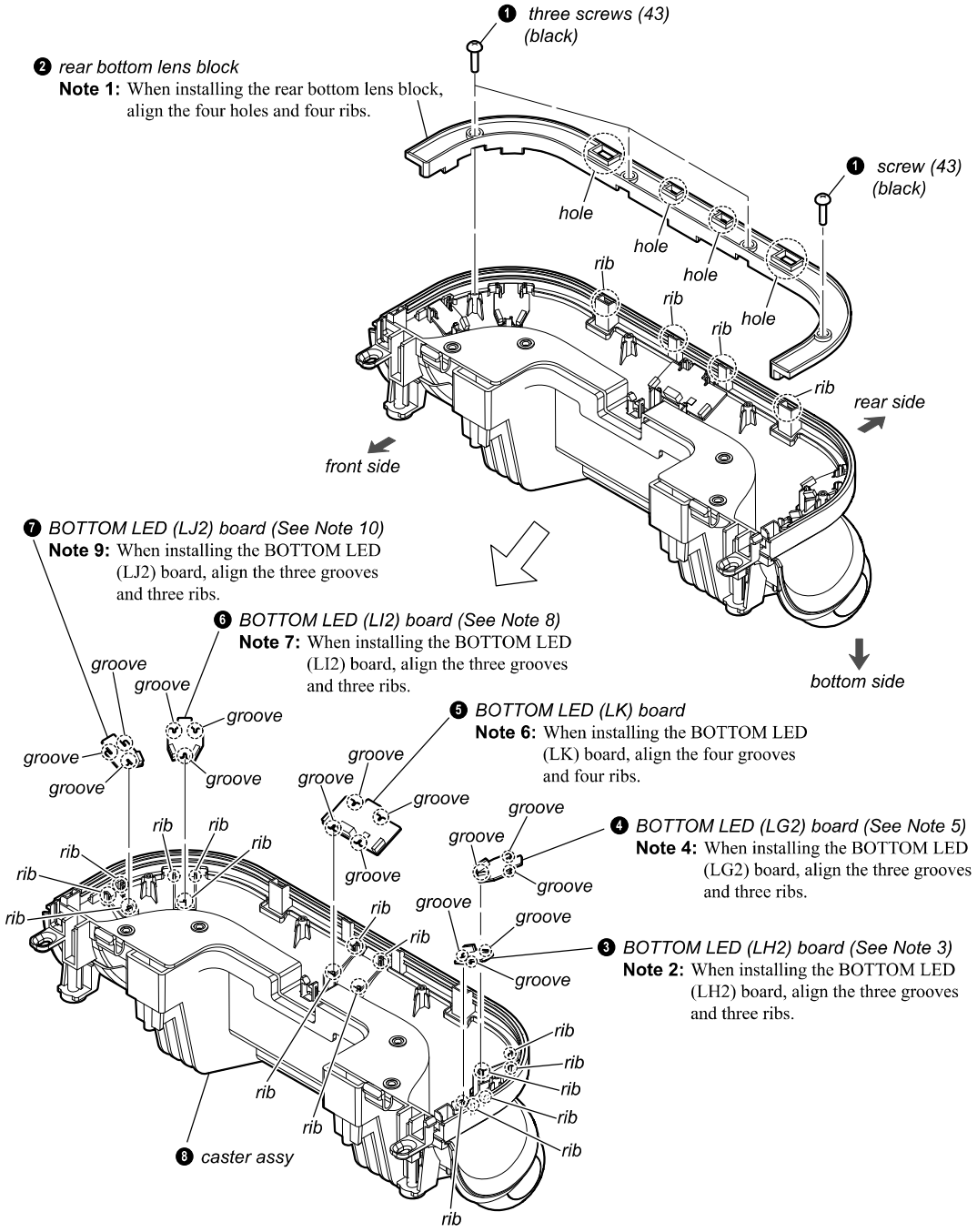
– Inner view –

BOTTOM LED (LG2) connector (XP2300, XP2301),
BOTTOM LED (LH2) connector (XP2400),
BOTTOM LED (LI2) connector (XP2500, XP2501),
BOTTOM LED (LJ2) connector (XP2600),
BOTTOM LED (LK) connector (XP2000, XP2002)

Note: The FFCs connected to the BOTTOM LED (LG2)/(LH2)/(LI2)/(LJ2)/(LK) boards are fixed to the connector with adhesive.
Therefore, when removing the FFCs from the connector on the BOTTOM LED (LG2)/(LH2)/(LI2)/(LJ2)/(LK) boards, remove the adhesive carefully to avoid damaging the FFCs, and then remove the FFCs.
Also, if it reconnect the FFCs, it is not necessary to apply adhesive. Make sure to insert the FFCs firmly and correctly into the connector.



2-31. BOTTOM LED (LG2)/(LH2)/(LI2)/(LJ2)/(LK) BOARDS, CASTER ASSY-2 (WIRELESS SPEAKER)



Note 3: When the BOTTOM LED (LH2) board is replaced with a new board, it will be replaced with the BOTTOM LED (LH) board. The BOTTOM LED (LH) board and the BOTTOMLED (LH2) board differ in the Ref. No. of each electrical parts in addition to the board name.

Note 8: When the BOTTOM LED (LI2) board is replaced with a new board, it will be replaced with the BOTTOM LED (LI) board. The BOTTOM LED (LI) board and the BOTTOMLED (LI2) board differ in the Ref. No. of each electrical parts in addition to the board name.

Note 5: When the BOTTOM LED (LG2) board is replaced with a new board, it will be replaced with the BOTTOM LED (LG) board. The BOTTOM LED (LG) board and the BOTTOMLED (LG2) board differ in the Ref. No. of each electrical parts in addition to the board name.

Note 10: When the BOTTOM LED (LJ2) board is replaced with a new board, it will be replaced with the BOTTOM LED (LJ) board. The BOTTOM LED (LJ) board and the BOTTOMLED (LJ2) board differ in the Ref. No. of each electrical parts in addition to the board name.

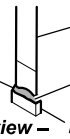
2-32. BOTTOM LED (LF)/(LG)/(LH)/(LI)/(LJ) BOARDS, BOTTOM LENS (FRONT)-1 (WIRELESS SPEAKER)

• Continued on 2-33 (page 49).

• How to remove the FFC

< Fig. X >

❶ Peel off the adhesive carefully so as not to damage the connector and FFC.



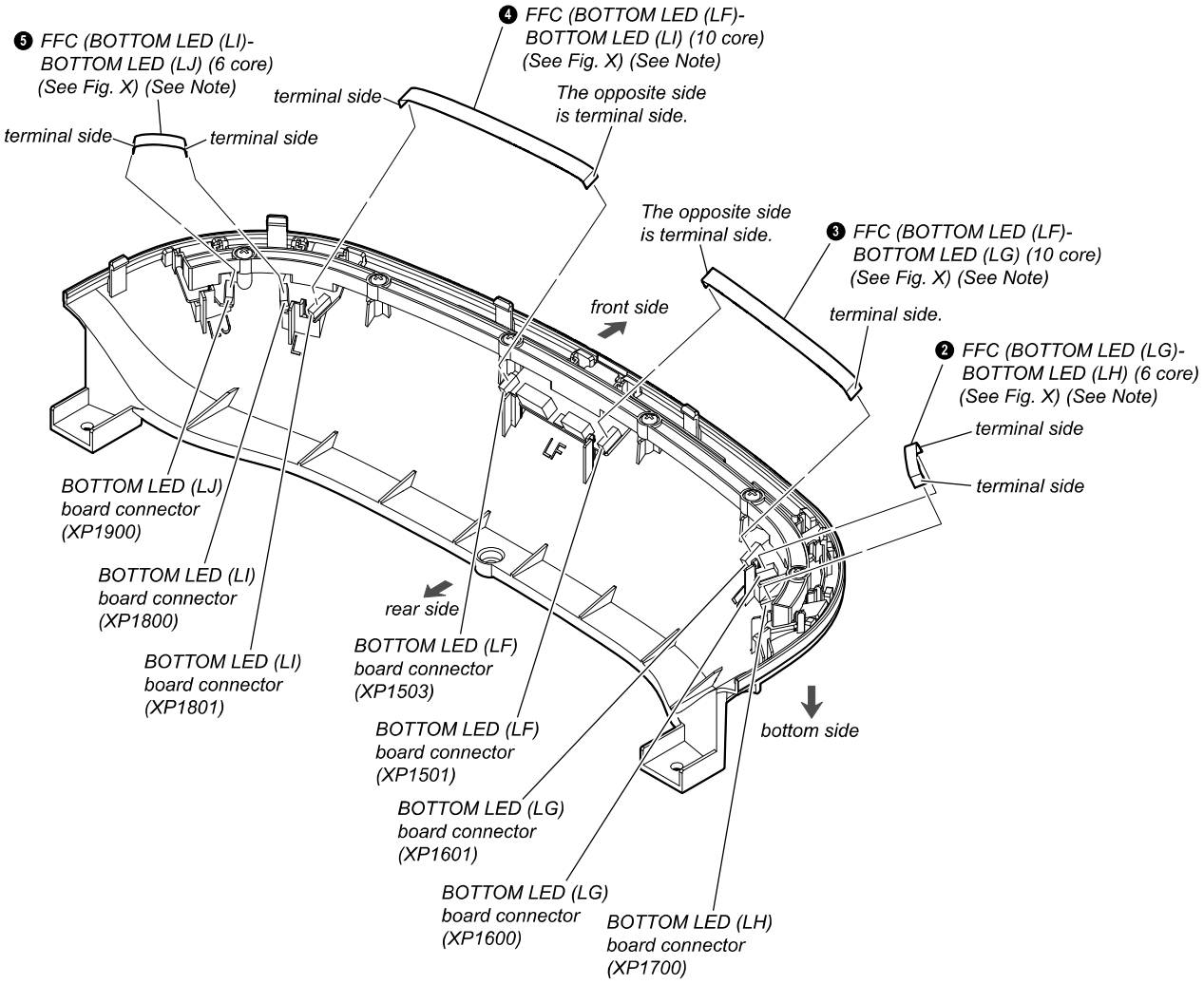
FFC (BOTTOM LED (LF)-BOTTOM LED (LG) (10 core),
FFC (BOTTOM LED (LF)-BOTTOM LED (LI) (10 core),
FFC (BOTTOM LED (LG)-BOTTOM LED (LH) (6 core),
FFC (BOTTOM LED (LI)-BOTTOM LED (LJ) (6 core)

adhesive

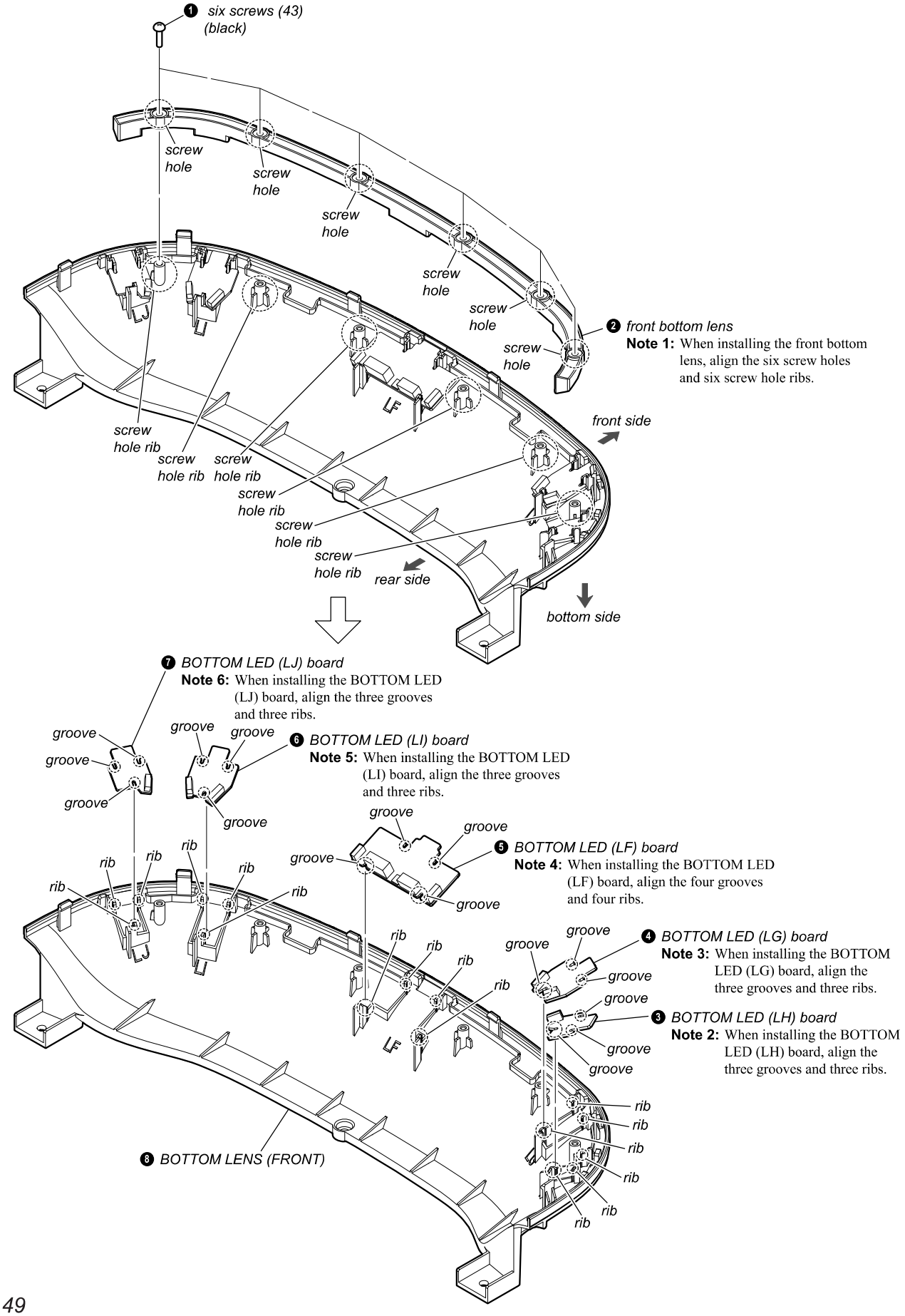
– Inner view –

BOTTOM LED (LF) connector (XP1501, XP1503),
BOTTOM LED (LG) connector (XP1600,XP1601),
BOTTOM LED (LH) connector (XP1700),
BOTTOM LED (LI) connector (XP1800, XP1801),
BOTTOM LED (LJ) connector (XP1900)

Note: The FFCs connected to the BOTTOM LED (LF)/(LG)/(LH)/(LI)/(LJ) boards are fixed to the connector with adhesive. Therefore, when removing the FFCs from the connector on the BOTTOM LED (LF)/(LG)/(LH)/(LI)/(LJ) boards, remove the adhesive carefully to avoid damaging the FFCs, and then remove the FFCs.
Also, if it reconnect the FFCs, it is not necessary to apply adhesive. Make sure to insert the FFCs firmly and correctly into the connector.

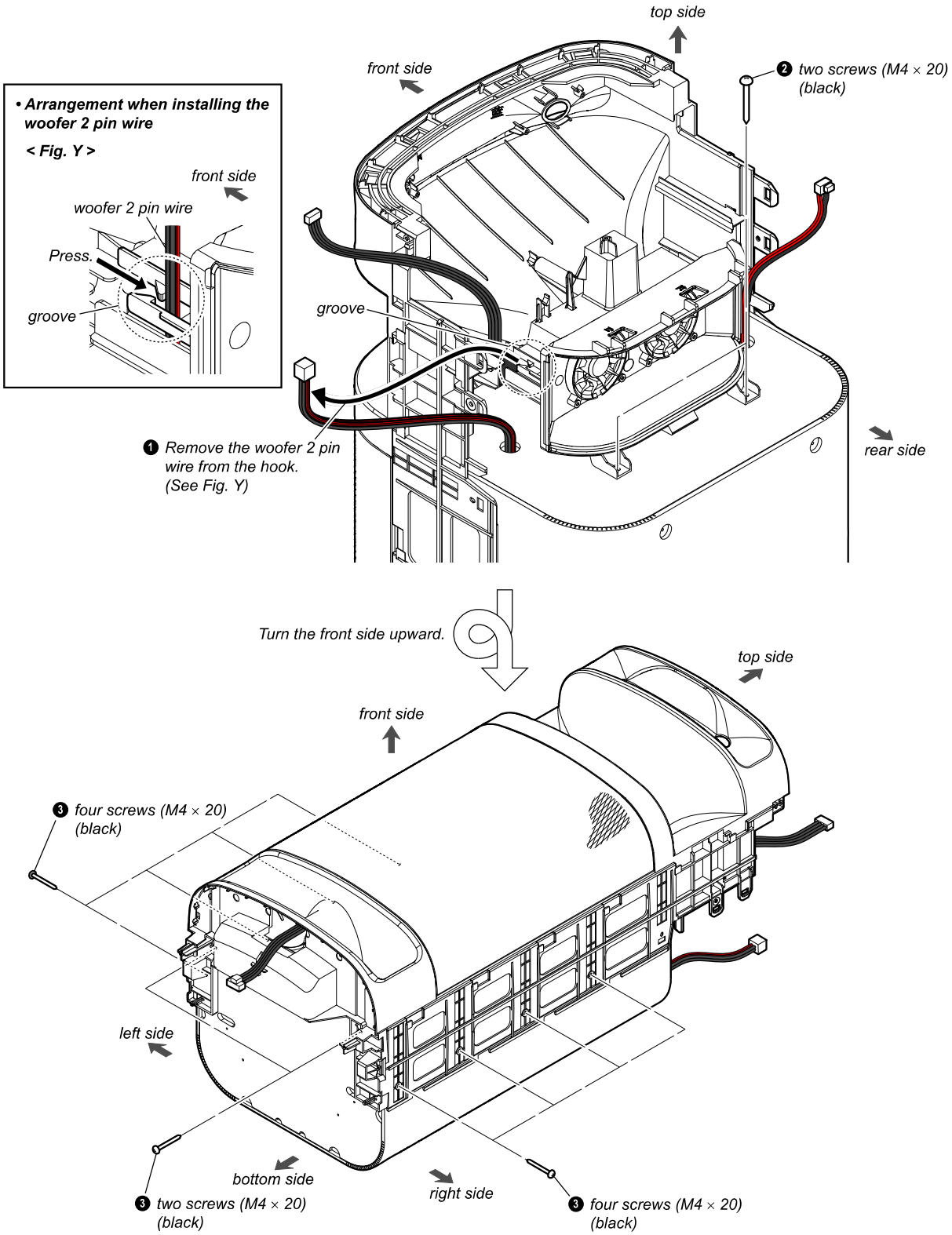


2-33. BOTTOM LED (LF)/(LG)/(LH)/(LI)/(LJ) BOARDS, BOTTOM LENS (FRONT)-2 (WIRELESS SPEAKER)

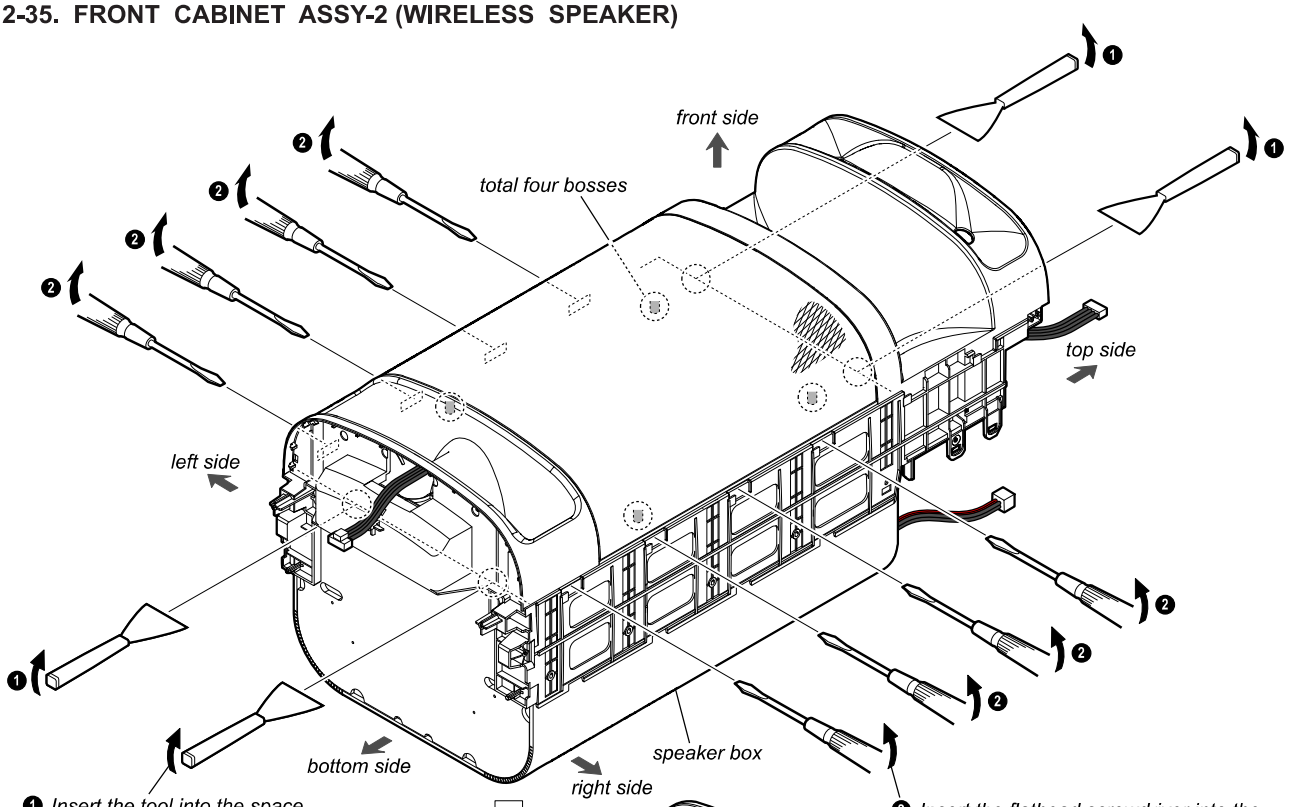


2-34. FRONT CABINET ASSY-1 (WIRELESS SPEAKER)

• Continued on 2-35 (page 51).

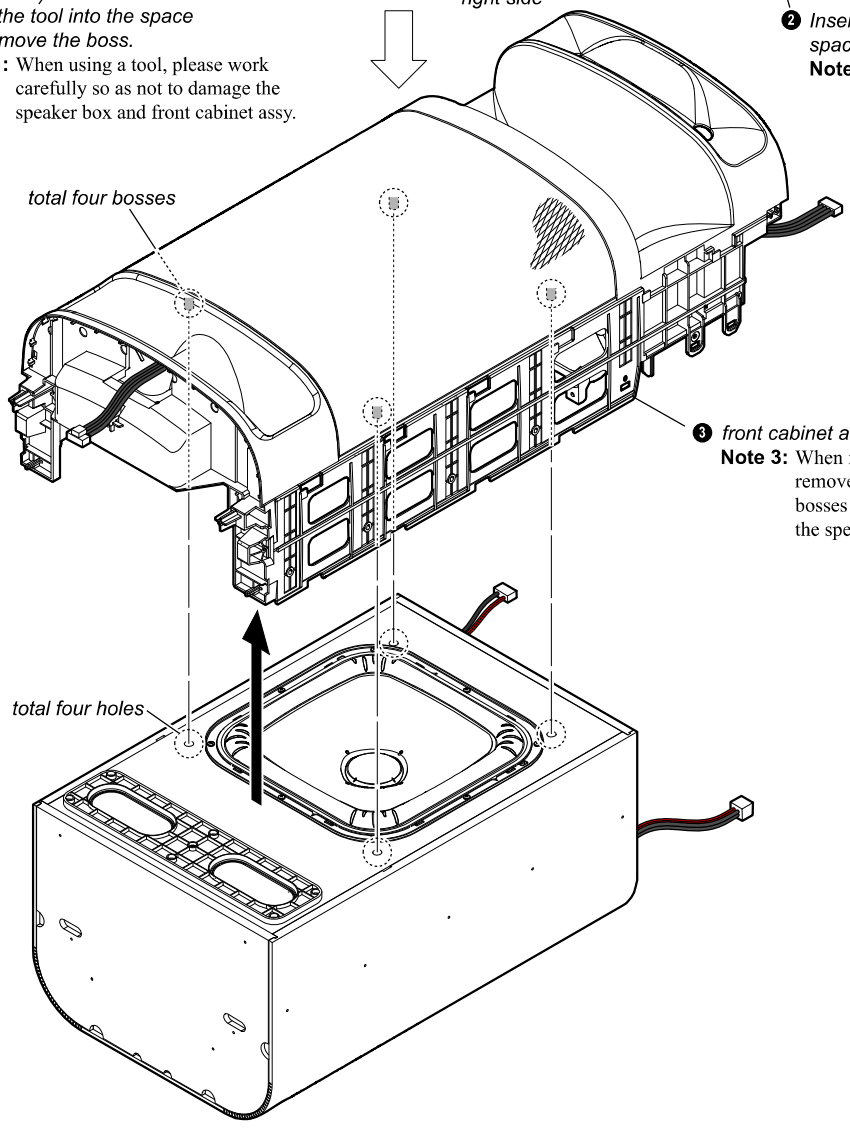


2-35. FRONT CABINET ASSY-2 (WIRELESS SPEAKER)



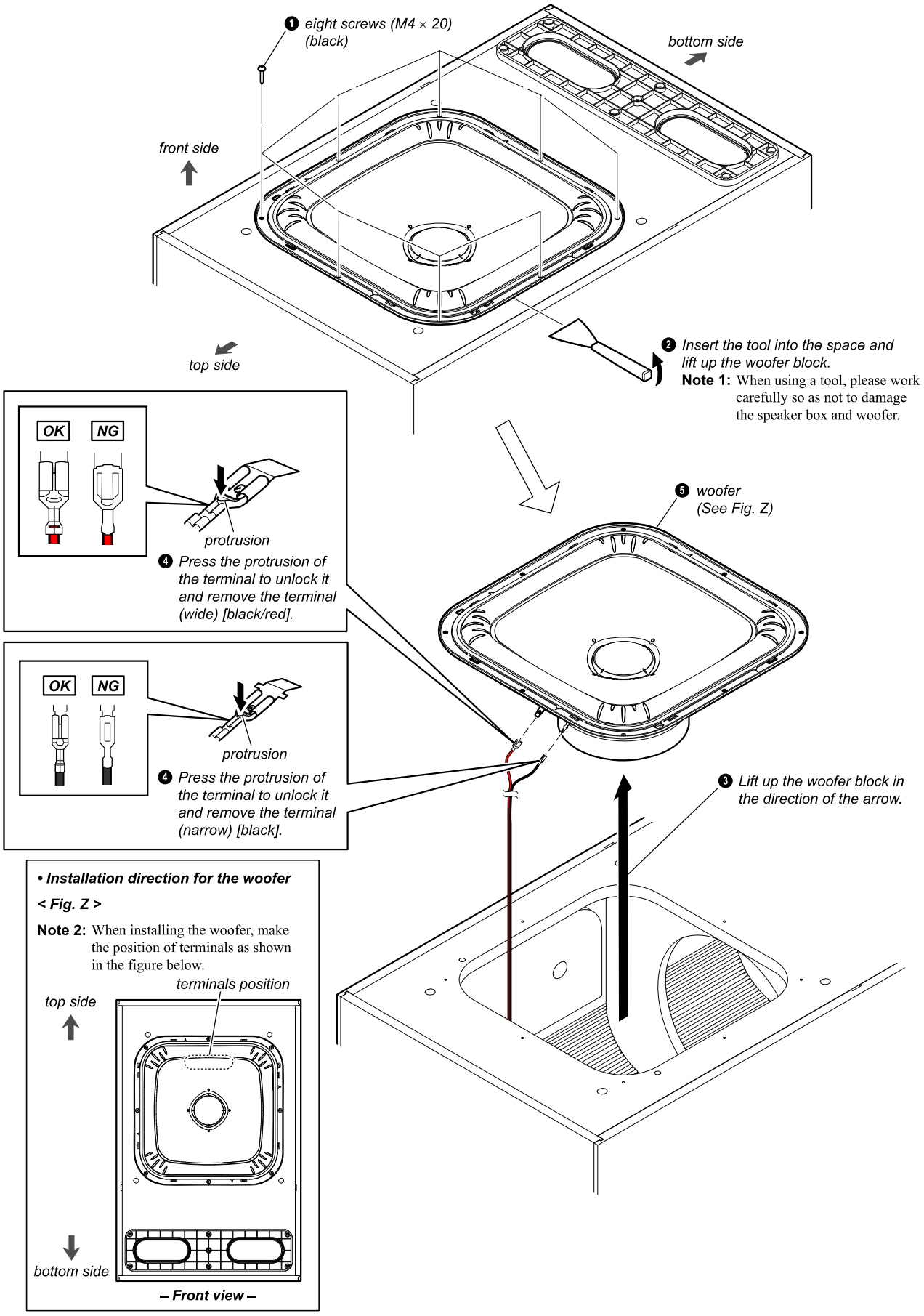
❶ *Insert the tool into the space and remove the boss.*
Note 1: When using a tool, please work carefully so as not to damage the speaker box and front cabinet assy.

❷ *Insert the flathead screwdriver into the space and remove the boss.*
Note 2: When using a flathead screwdriver, please work carefully so as not to damage the speaker box and front cabinet assy.

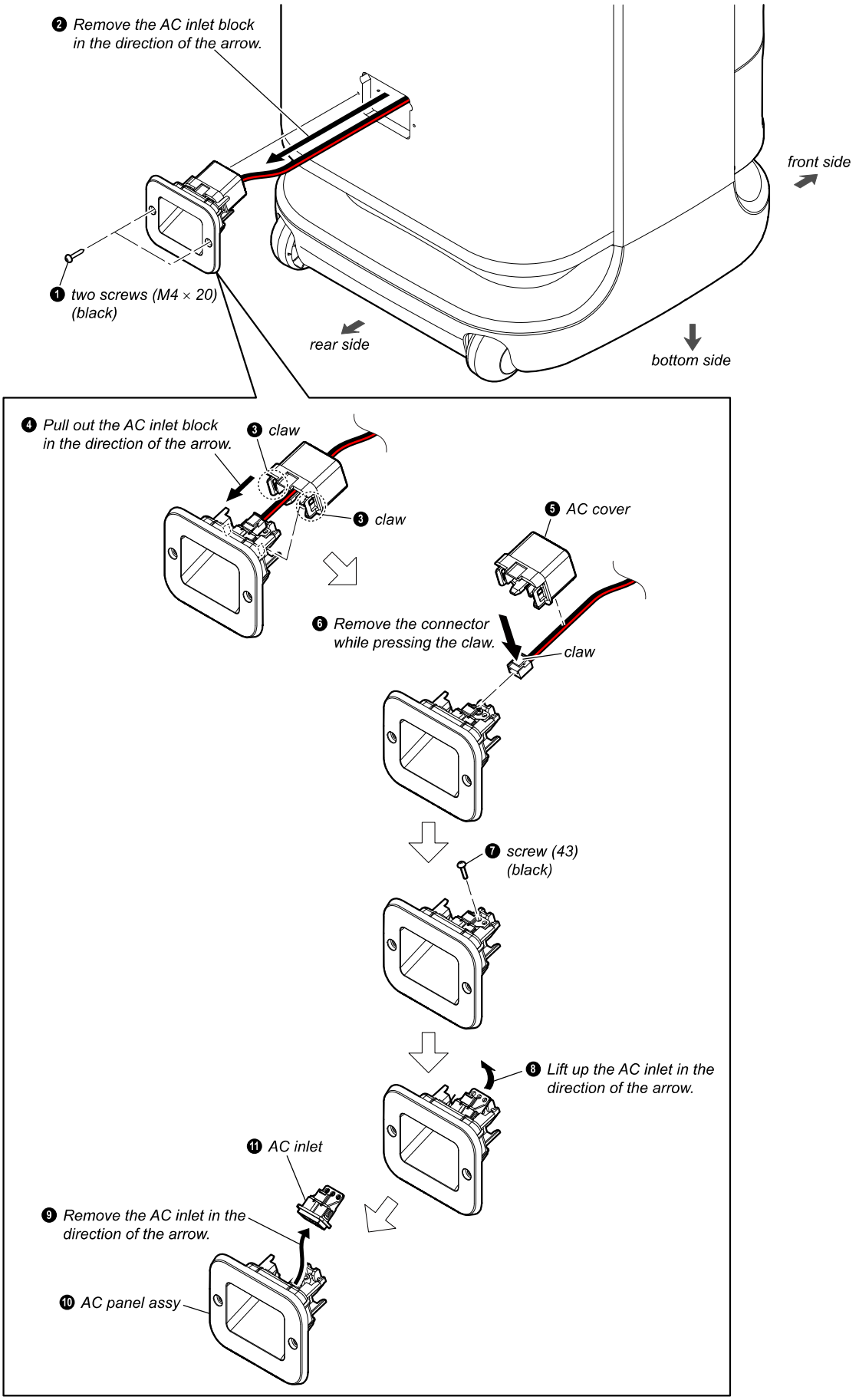


❸ *front cabinet assy*
Note 3: When installing the front cabinet assy, remove cleanly the sticked adhesive on bosses and holes, and apply adhesive to the speaker box holes again and install it.

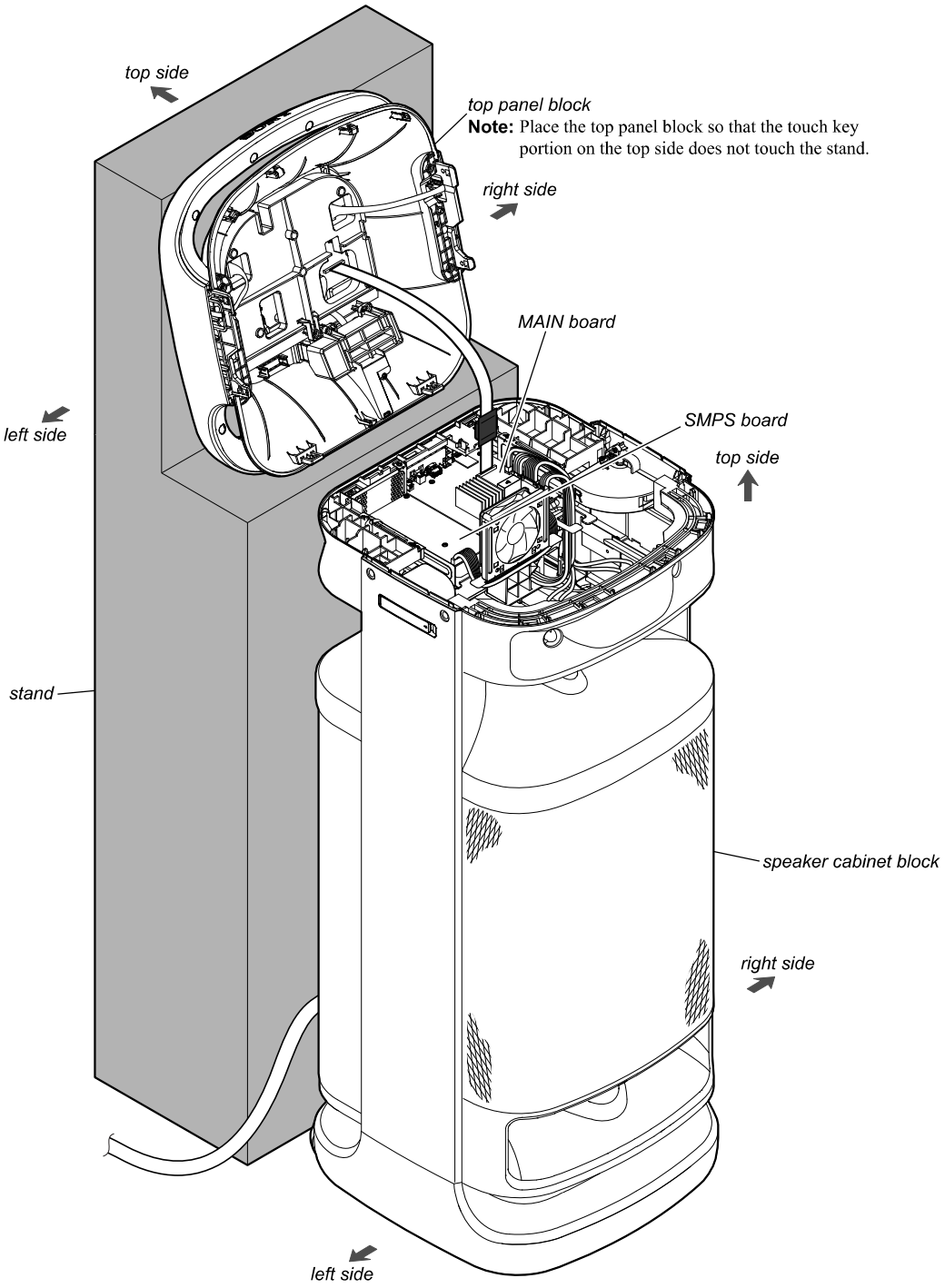
2-36. WOOFER (WIRELESS SPEAKER)



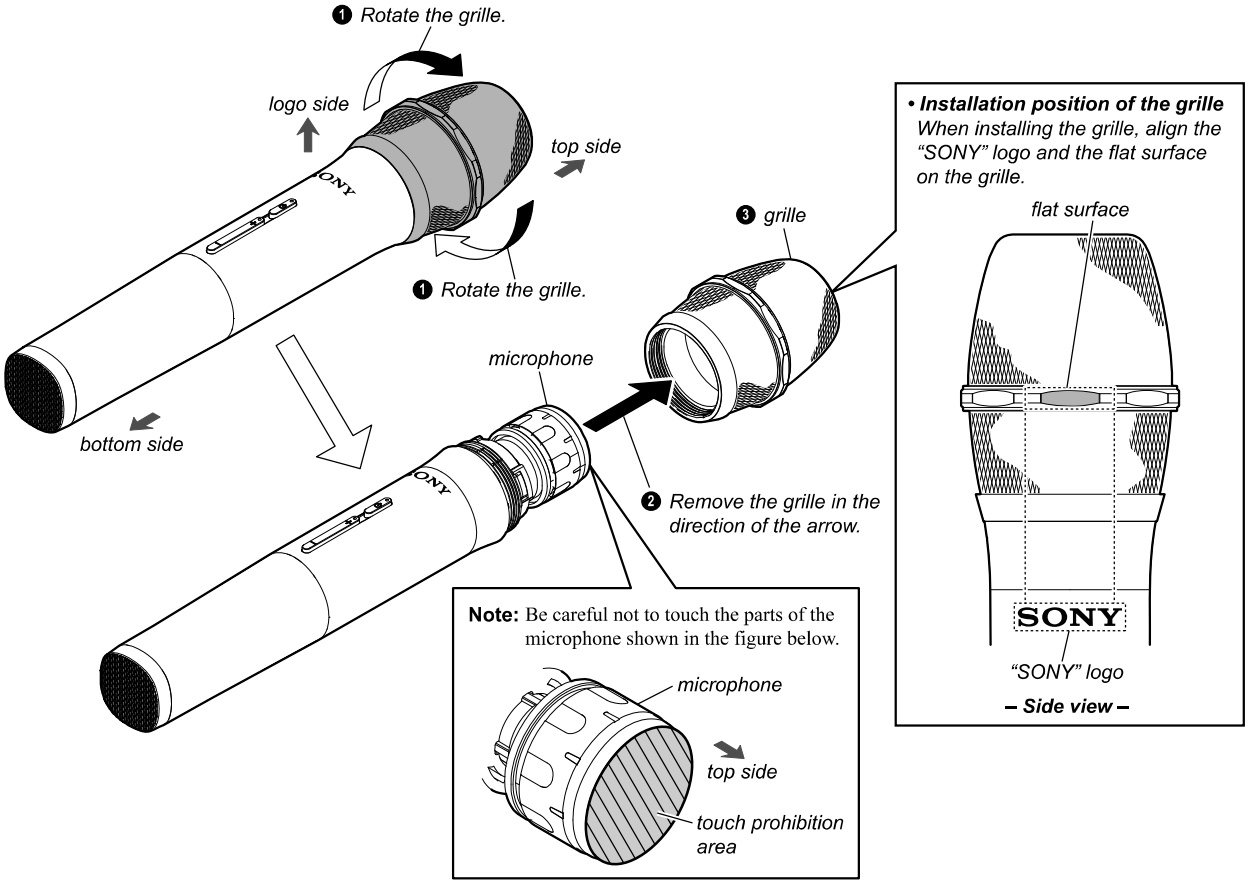
2-37. AC INLET (WIRELESS SPEAKER)



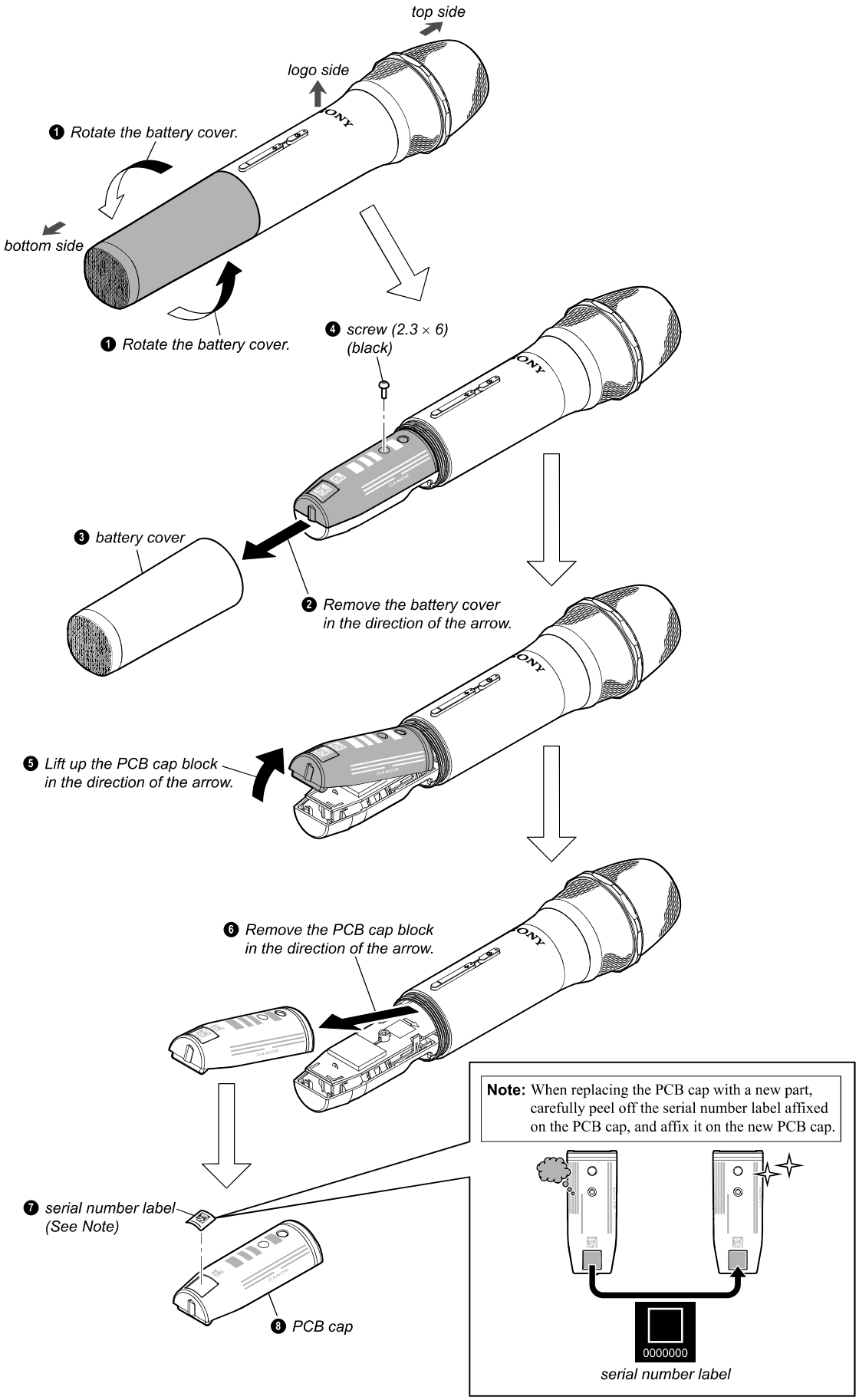
2-38. SERVICE POSITION (WIRELESS SPEAKER)



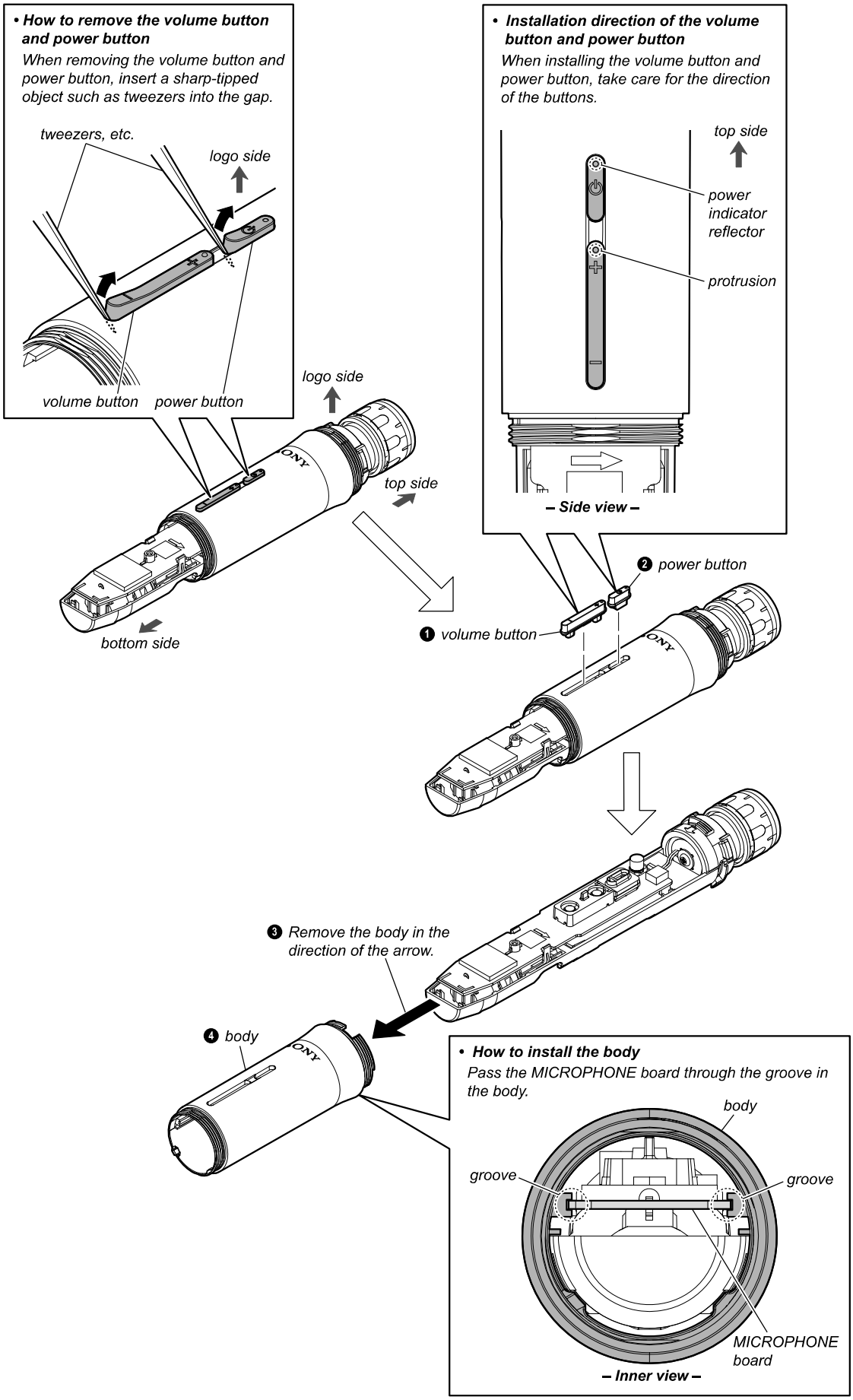
2-39. GRILLE (WIRELESS MICROPHONE)



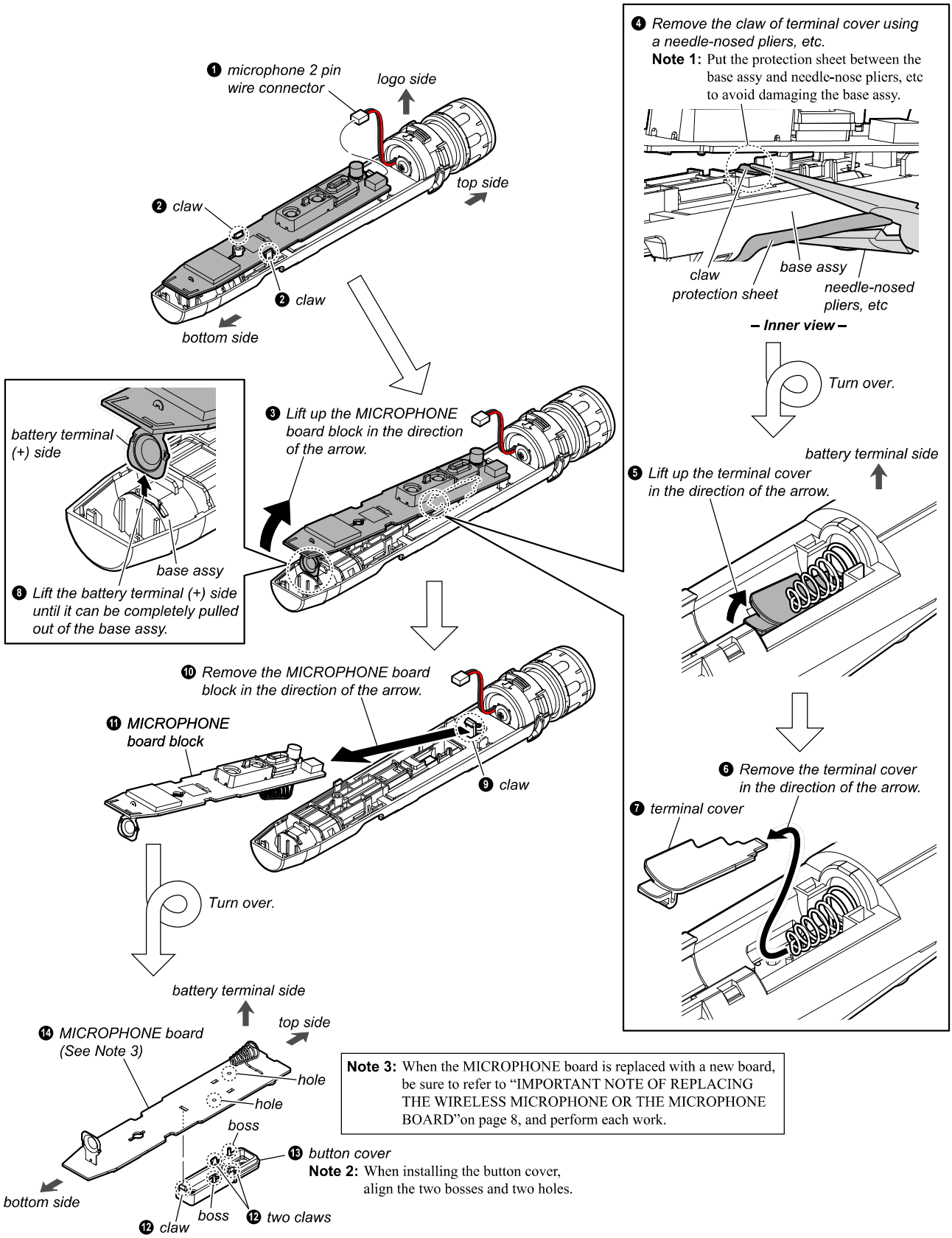
2-40. PCB CAP (WIRELESS MICROPHONE)



2-41. BODY (WIRELESS MICROPHONE)

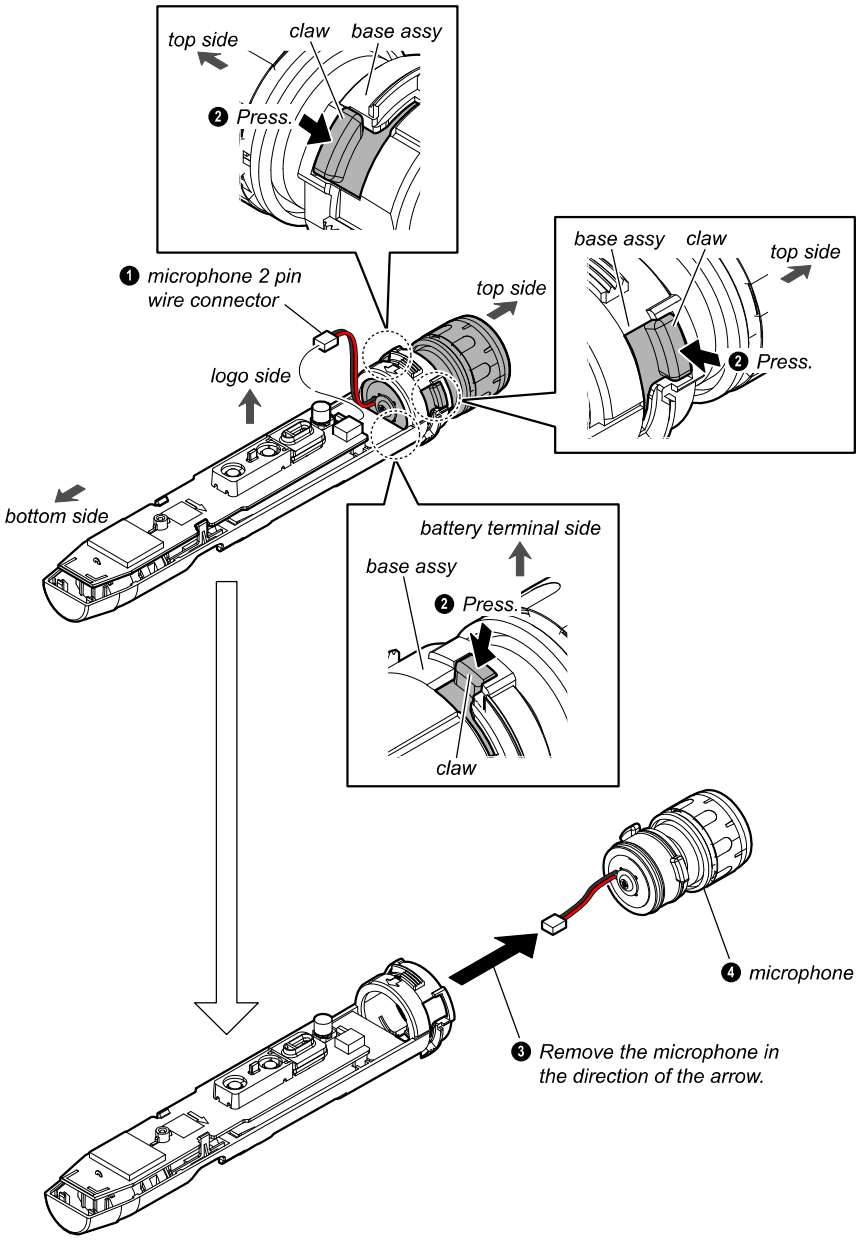


2-42. MICROPHONE BOARD (WIRELESS MICROPHONE)



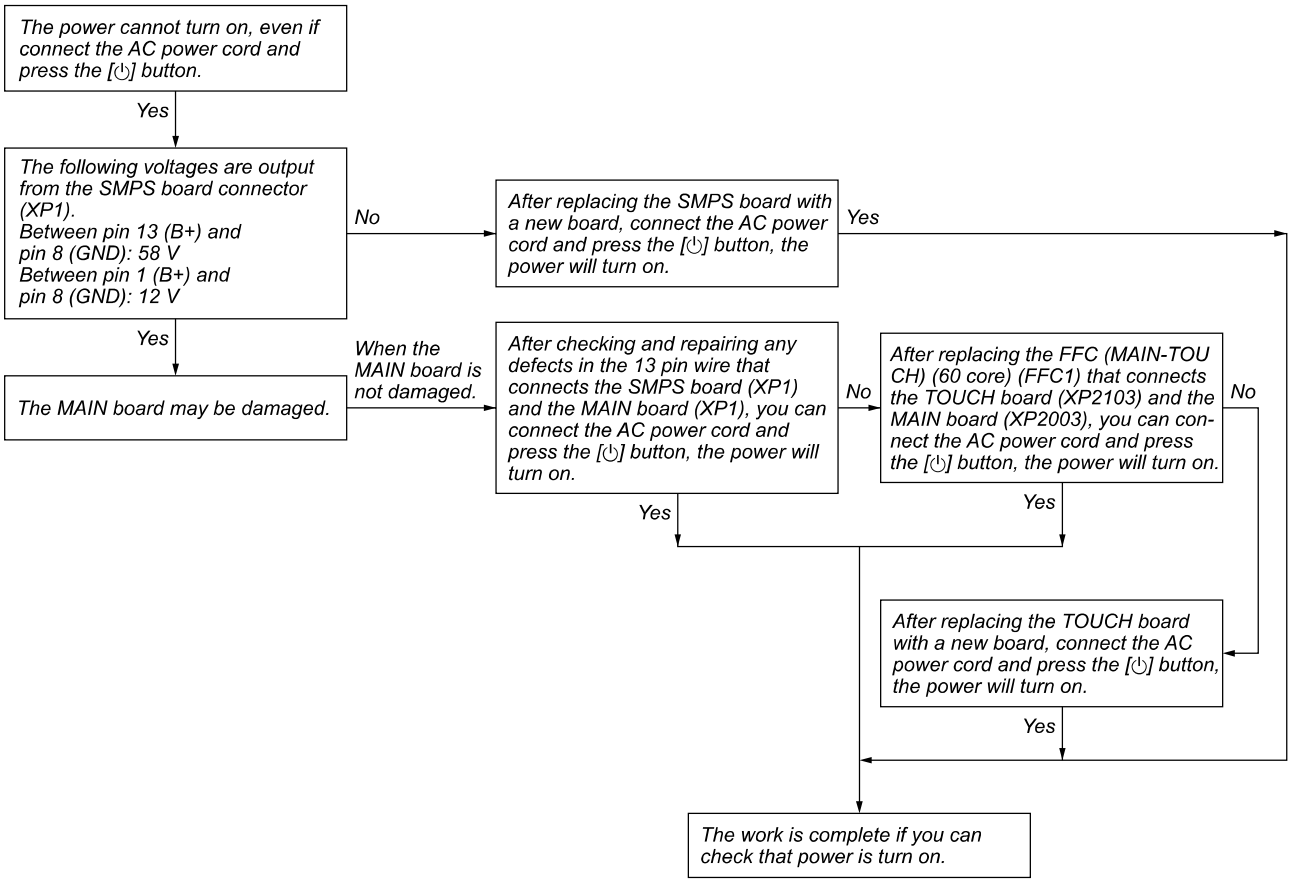
Note 3: When the MICROPHONE board is replaced with a new board, be sure to refer to "IMPORTANT NOTE OF REPLACING THE WIRELESS MICROPHONE OR THE MICROPHONE BOARD"on page 8, and perform each work.

2-43. MICROPHONE (WIRELESS MICROPHONE)

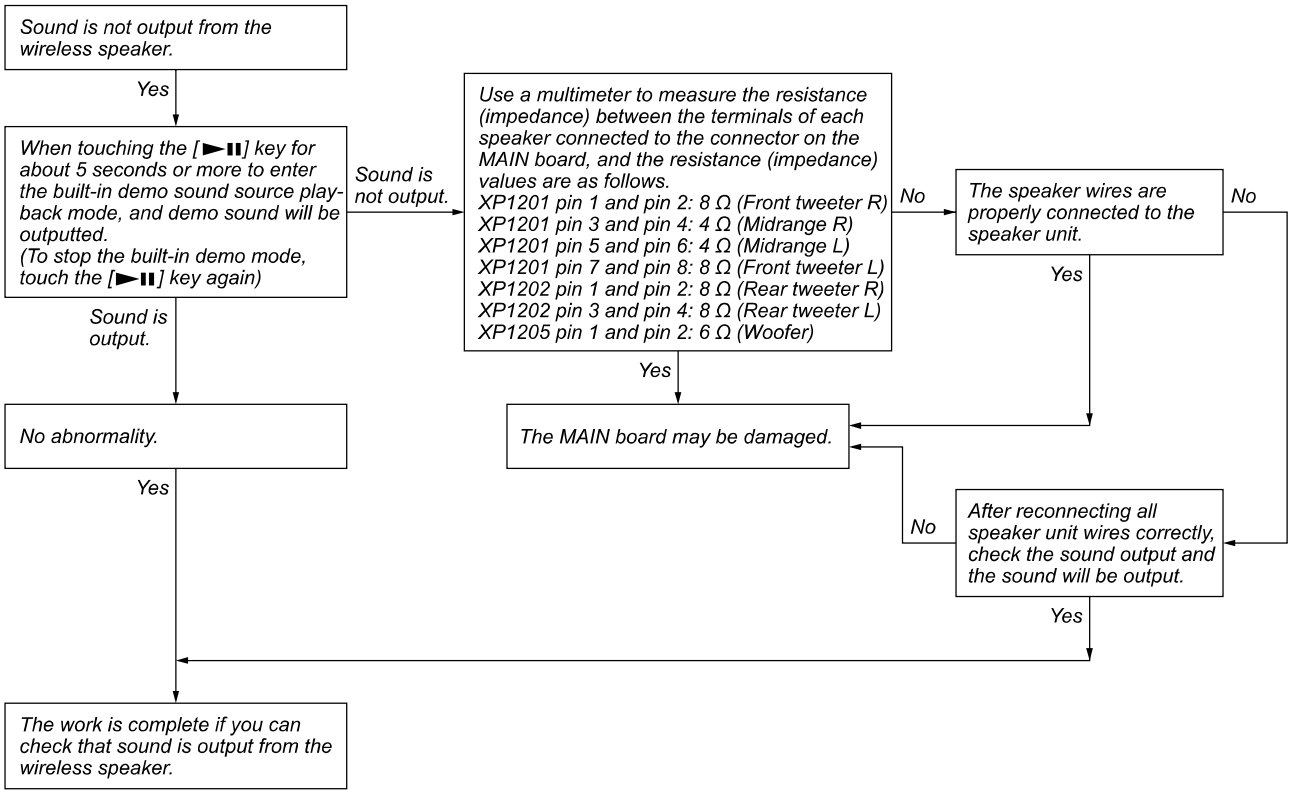


SECTION 3
TROUBLESHOOTING

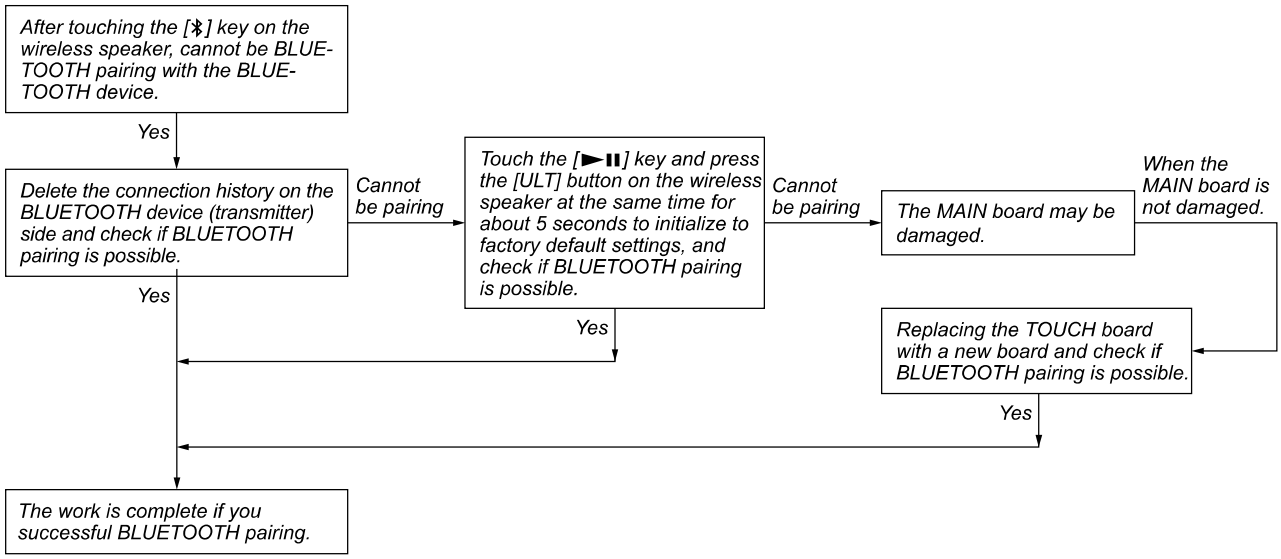
1. The power cannot be turned on (Wireless Speaker)



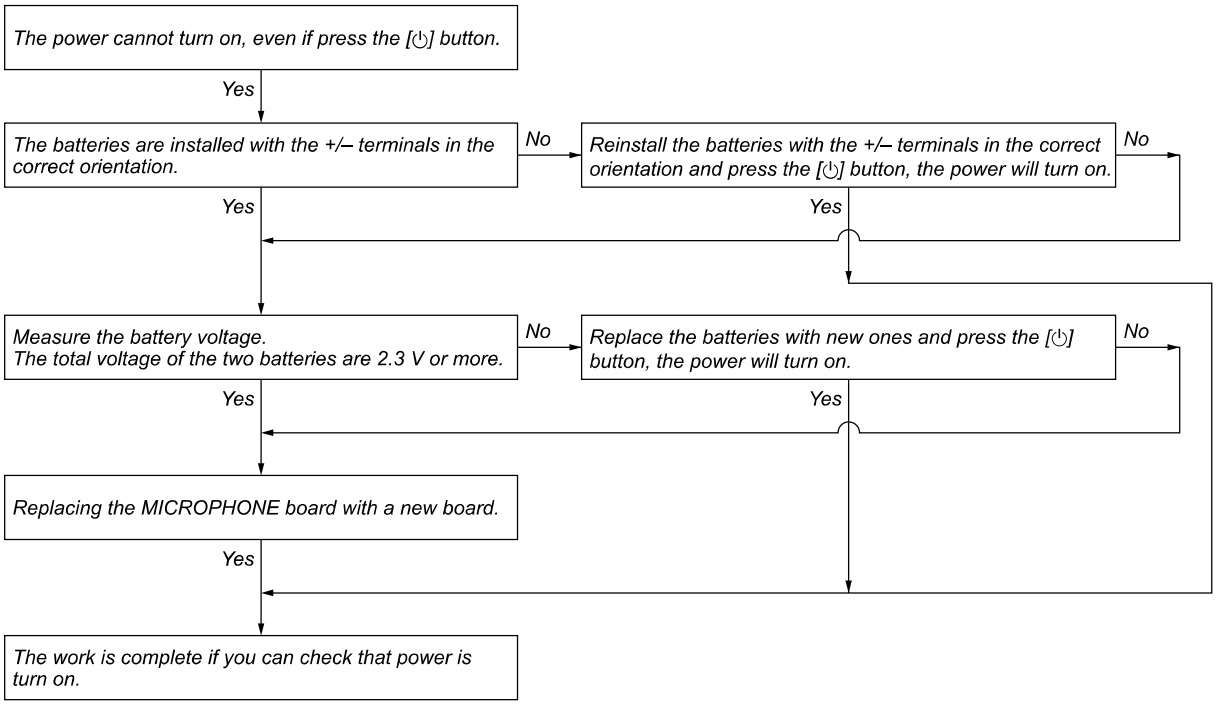
2. Sound is not output from the wireless speaker (Wireless Speaker)



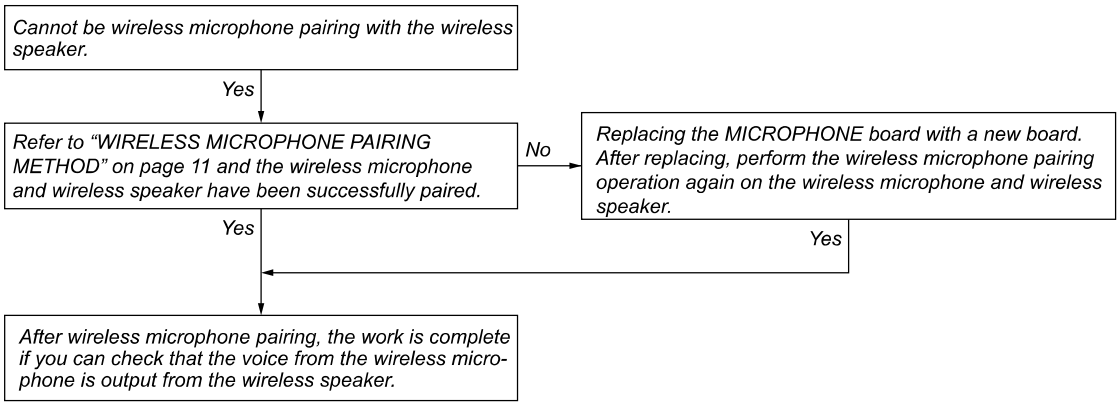
3. Cannot be BLUETOOTH pairing (Wireless Speaker)



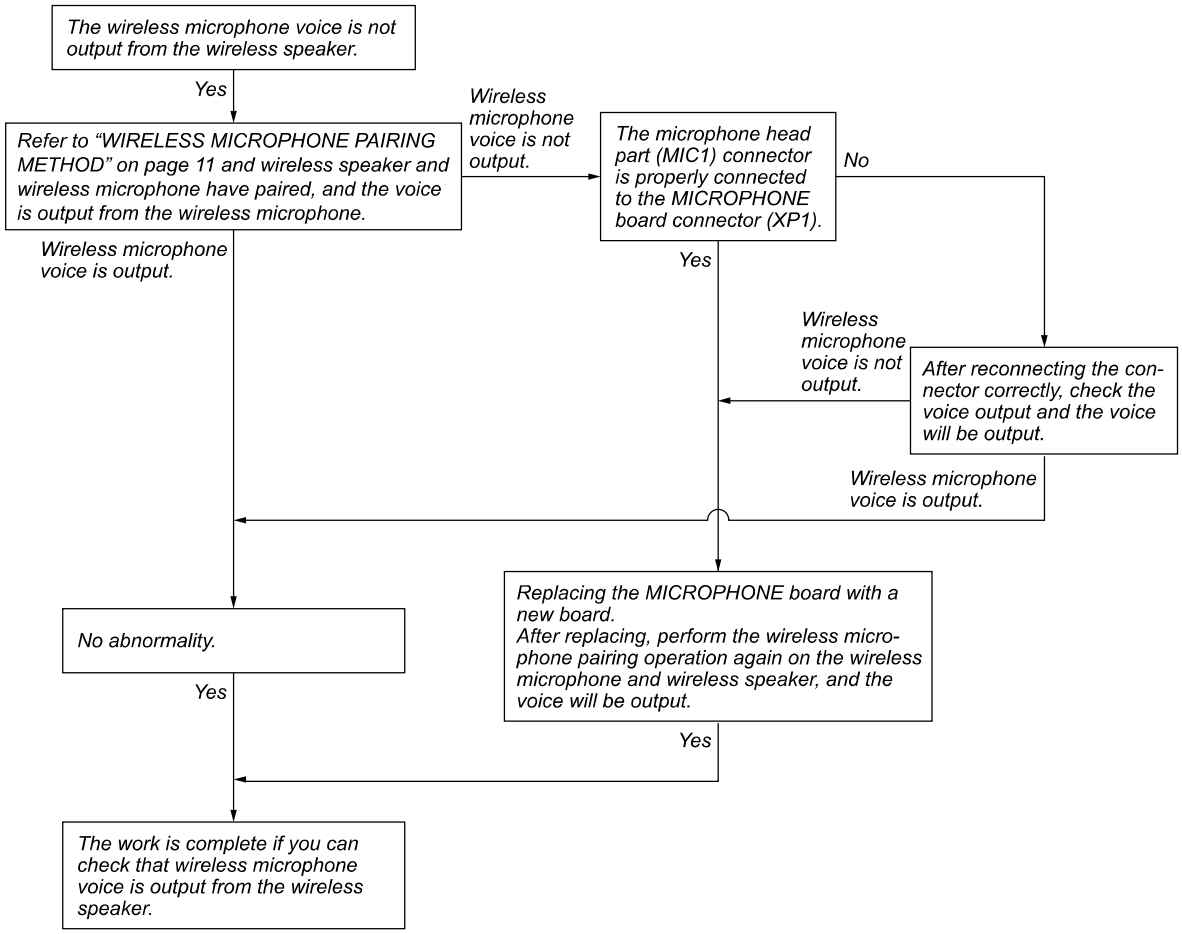
4. The power cannot be turned on (Wireless Microphone)



5. Cannot be wireless microphone pairing with the wireless speaker (Wireless Microphone)



6. The wireless microphone voice is not output (Wireless Microphone)

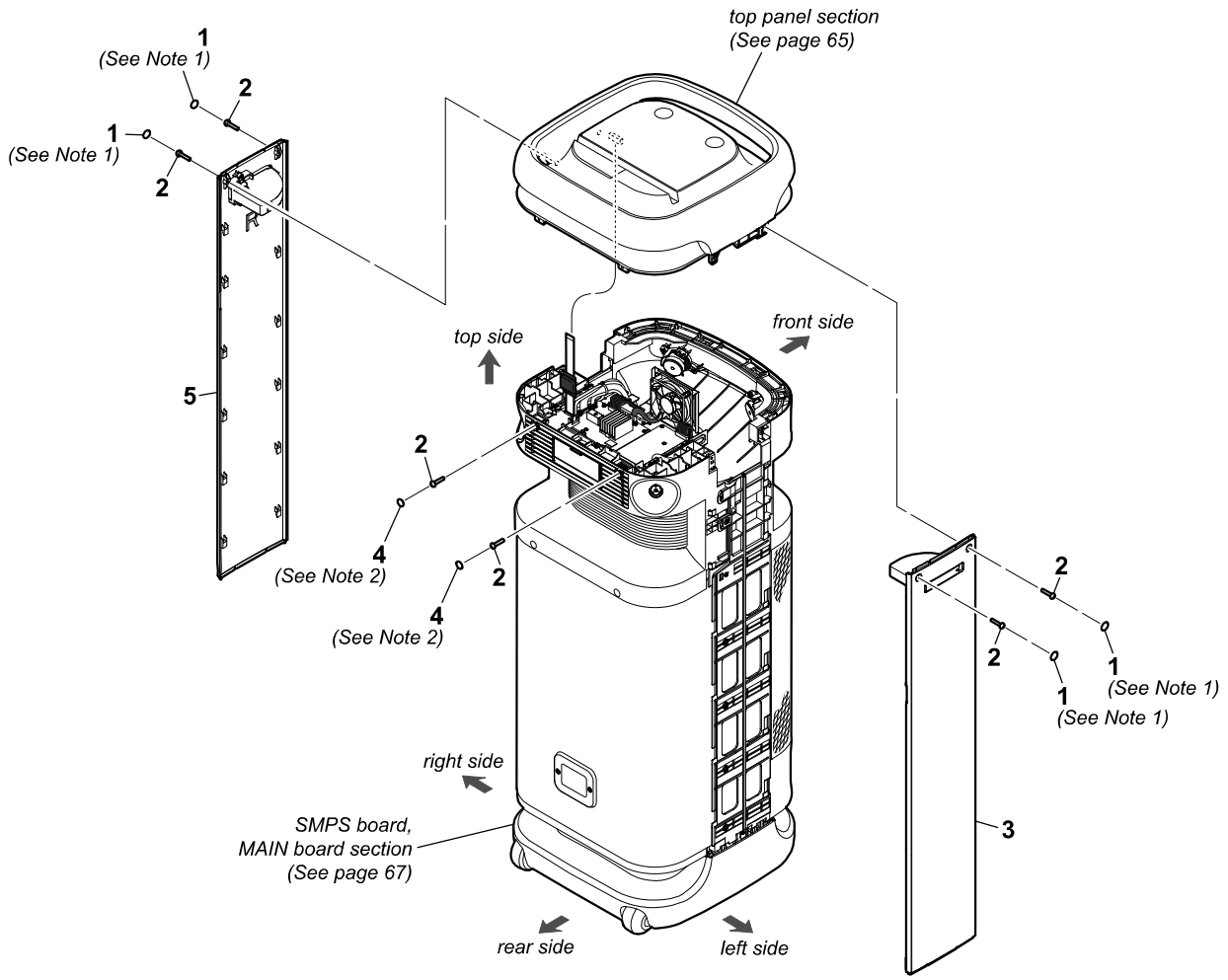


SECTION 4
EXPLODED VIEWS

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

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

4-1. SIDE PANEL SECTION (WIRELESS SPEAKER)

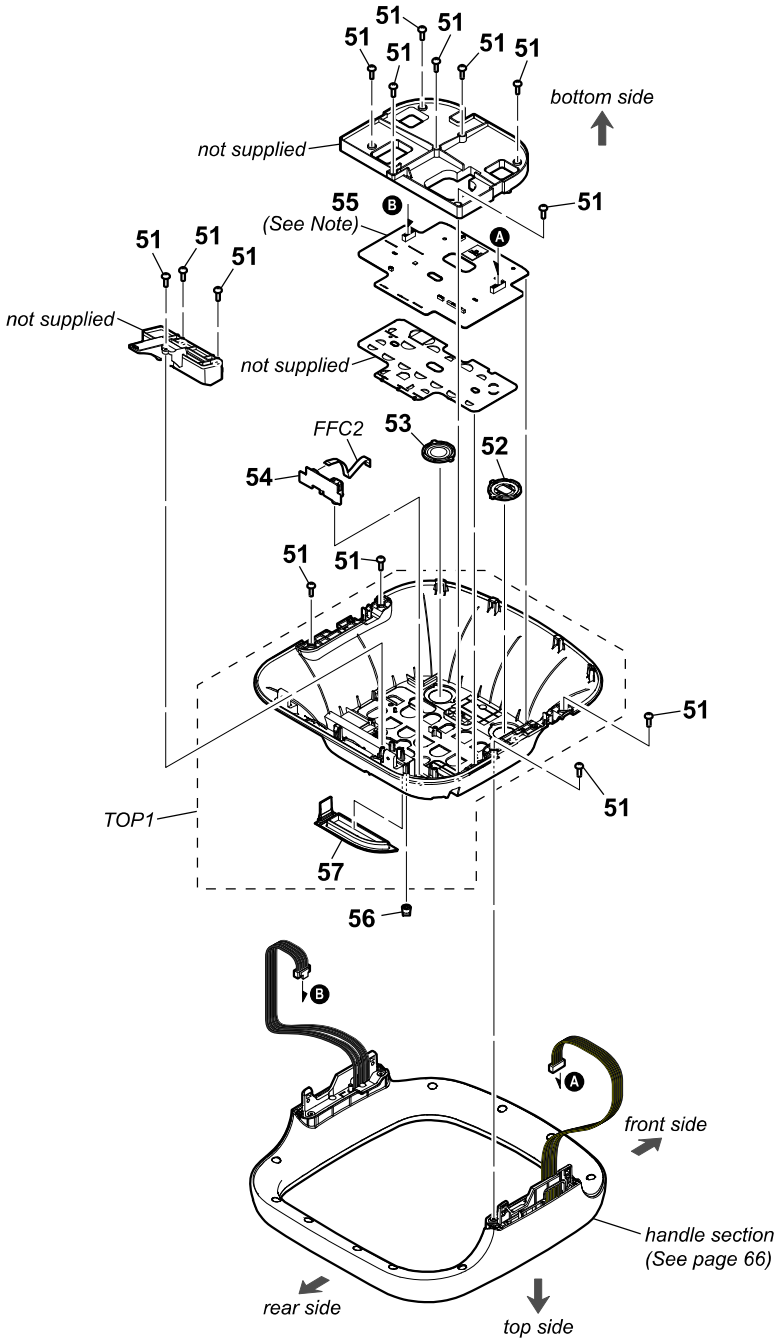


Note 1: When reusing the screw cover (side) (Ref. No. 1) for installation, make sure that the screw cover (side) is not weakened of the adhesive strength, broken, or damaged. If there is weakened of the adhesive strength, broken, or damaged, do not reuse the screw cover (side) and replace it with a new part.

Note 2: When reusing the screw cover (rear) (Ref. No. 4) for installation, make sure that the screw cover (rear) is not weakened of the adhesive strength, broken, or damaged. If there is weakened of the adhesive strength, broken, or damaged, do not reuse the screw cover (rear) and replace it with a new part.

Ref. No.	Part No.	Description	Remark
1	930102293	COVER, SCREW (SIDE) (See Note 1)	
2	930101956	SCREW, +BTP3.5X16 (B) (BLACK)	
3	930102283	PANEL, LEFT ASSY (with MIC holder, Cushion)	
4	930102294	COVER, SCREW (REAR) (See Note 2)	
5	930102284	PANEL, RIGHT ASSY (with MIC holder, Cushion)	

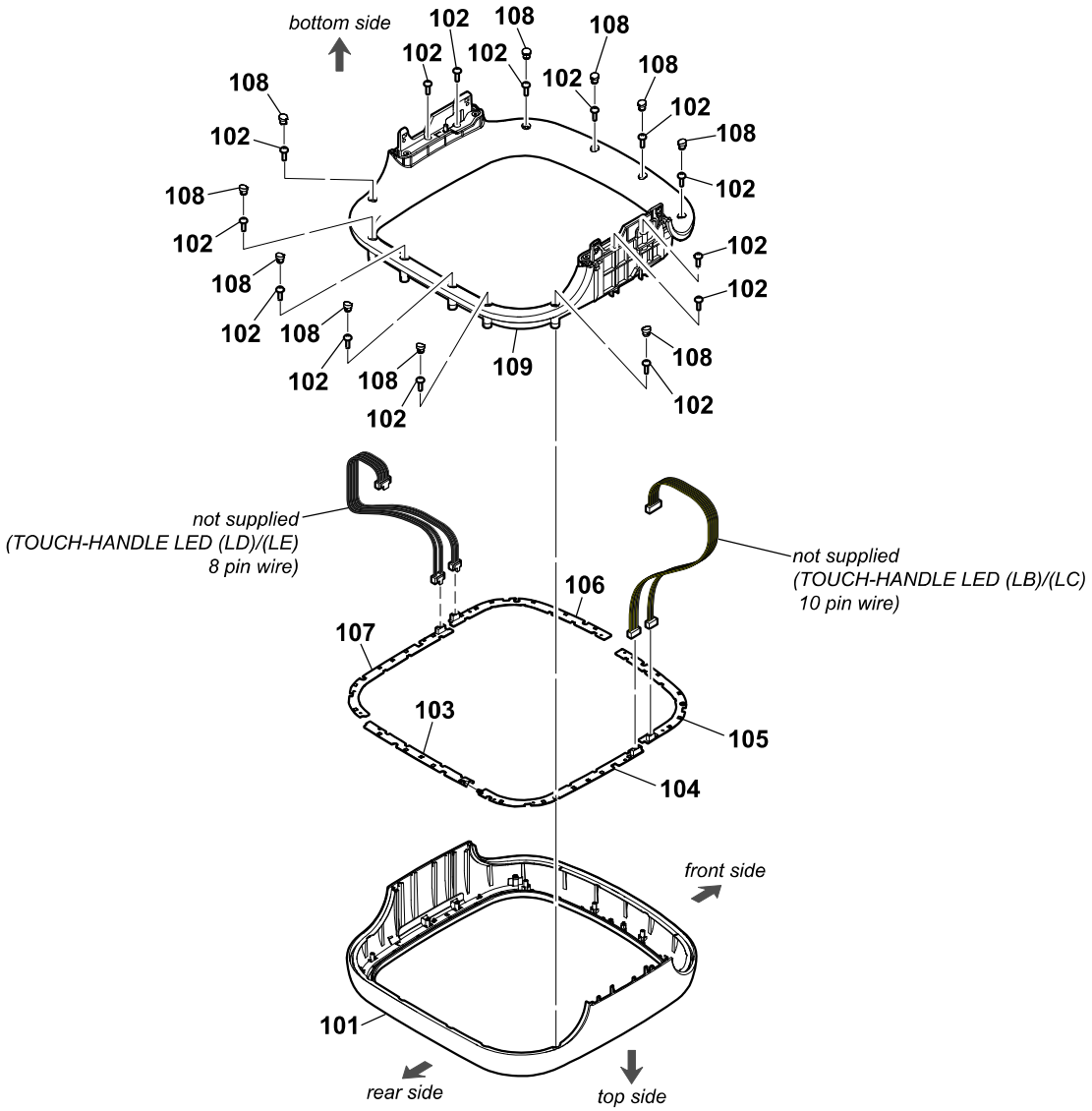
4-2. TOP PANEL SECTION (WIRELESS SPEAKER)



Note: When the complete TOUCH board (Ref. No. 55) is replaced with a new board, be sure to refer to "IMPORTANT NOTE OF REPLACING THE TOUCH BOARD" on page 8, and perform each work.

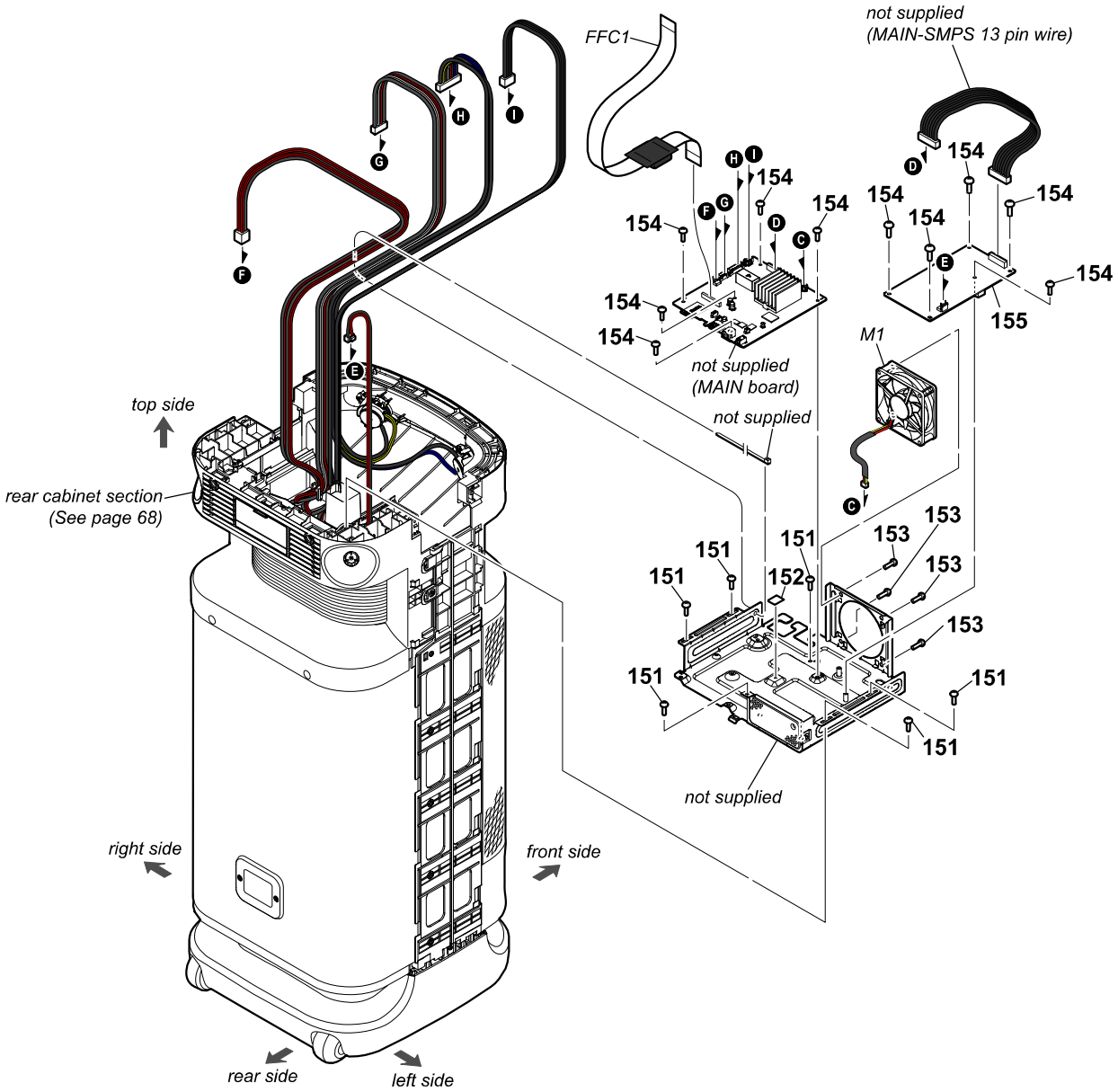
Ref. No.	Part No.	Description	Remark
51	930100773	SCREWS (43) (BLACK)	
52	930102277	BUTTON, ULT (ULT)	
53	930102276	BUTTON, POWER (⏻)	
54	930102255	MIC BOARD, COMPLETE	
55	930102249	TOUCH BOARD, COMPLETE (See Note)	
56	930101944	KNOB, MIC (MIC and GUITAR level knob)	
57	930102389	JACK COVER (TOP) (with PC sheet) (Cap)	
FFC2	930102269	FFC (TOUCH-MIC) (14 core)	
TOP1	930102275	PANEL, TOP ASSY (with Touch panel, MIC button, Jack cover (top), MEMS MIC, Cushion, PC sheet, Magnet)	

4-3. HANDLE SECTION (WIRELESS SPEAKER)



Ref. No.	Part No.	Description	Remark
101	930102273	HANDLE ASSY (with Metal parts, Cushion)	
102	930100773	SCREWS (43) (BLACK)	
103	930102250	HANDLE LED (LA) BOARD, COMPLETE	
104	930102251	HANDLE LED (LB) BOARD, COMPLETE	
105	930102252	HANDLE LED (LC) BOARD, COMPLETE	
106	930102253	HANDLE LED (LD) BOARD, COMPLETE	
107	930102254	HANDLE LED (LE) BOARD, COMPLETE	
108	930102292	COVER, SCREW (HANDLE)	
109	930102274	LENS, HANDLE ASSY (with Cushion)	

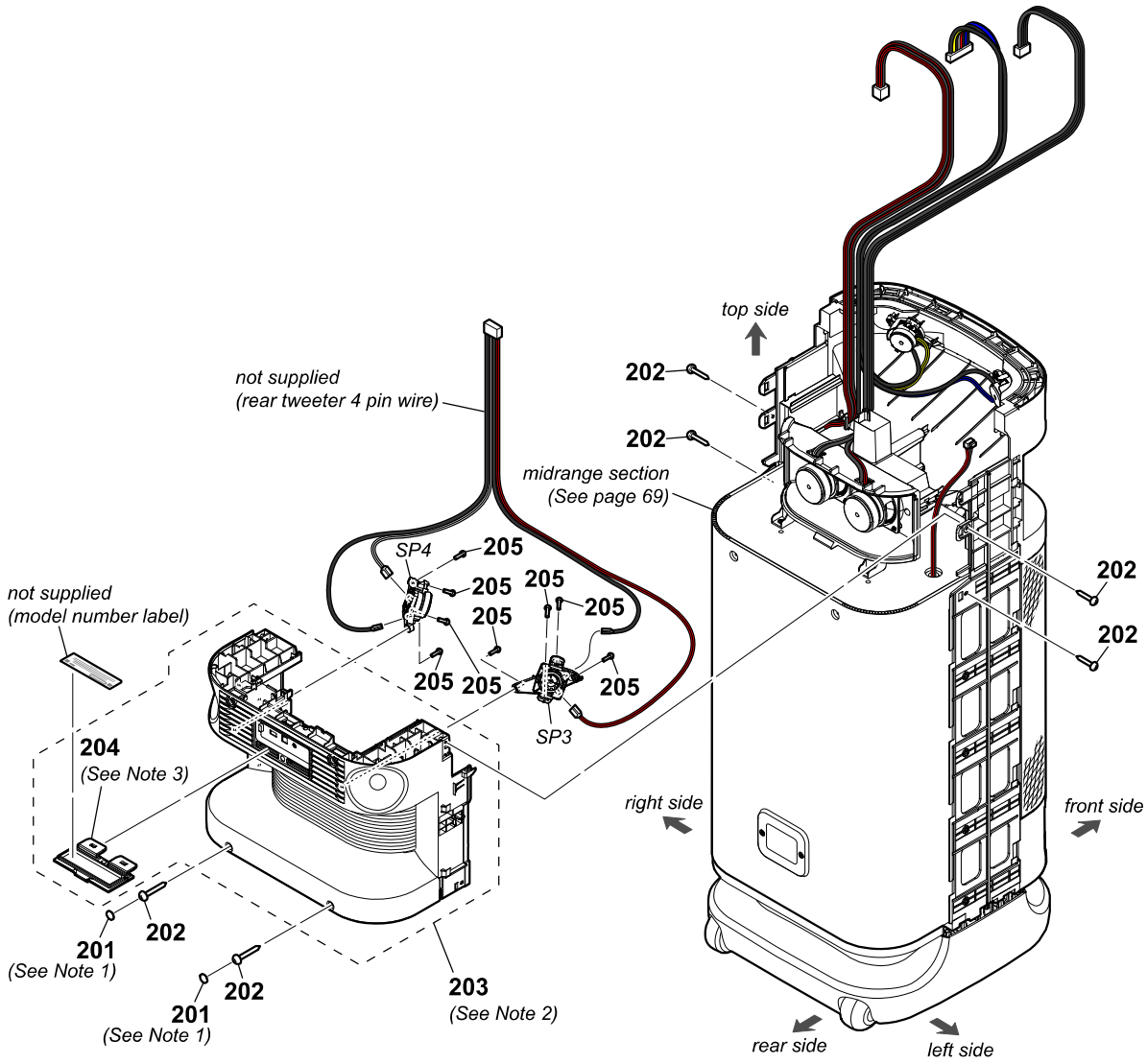
4-4. SMPS BOARD, MAIN BOARD SECTION (WIRELESS SPEAKER)



Ref. No.	Part No.	Description	Remark
151	930100773	SCREWS (43) (BLACK)	
152	930102279	THERMAL SHEET	
153	930102295	SCREW, +BTP5X10 (B) (BLACK)	
154	930101991	SCREW, +BTT3X7 (S) (BLACK)	
155	930102248	SMPS BOARD, COMPLETE (Adhesive applied)	

Ref. No.	Part No.	Description	Remark
FFC1	930102268	FFC (MAIN-TOUCH) (with Ferrite core, Cushion) (60 core)	
M1	930102278	FAN	

4-5. REAR CABINET SECTION (WIRELESS SPEAKER)



Note 1: When reusing the screw cover (rear) (Ref. No. 201) for installation, make sure that the screw cover (rear) is not weakened of the adhesive strength, broken, or damaged. If there is weakened of the adhesive strength, broken, or damaged, do not reuse the screw cover (rear) and replace it with a new part.

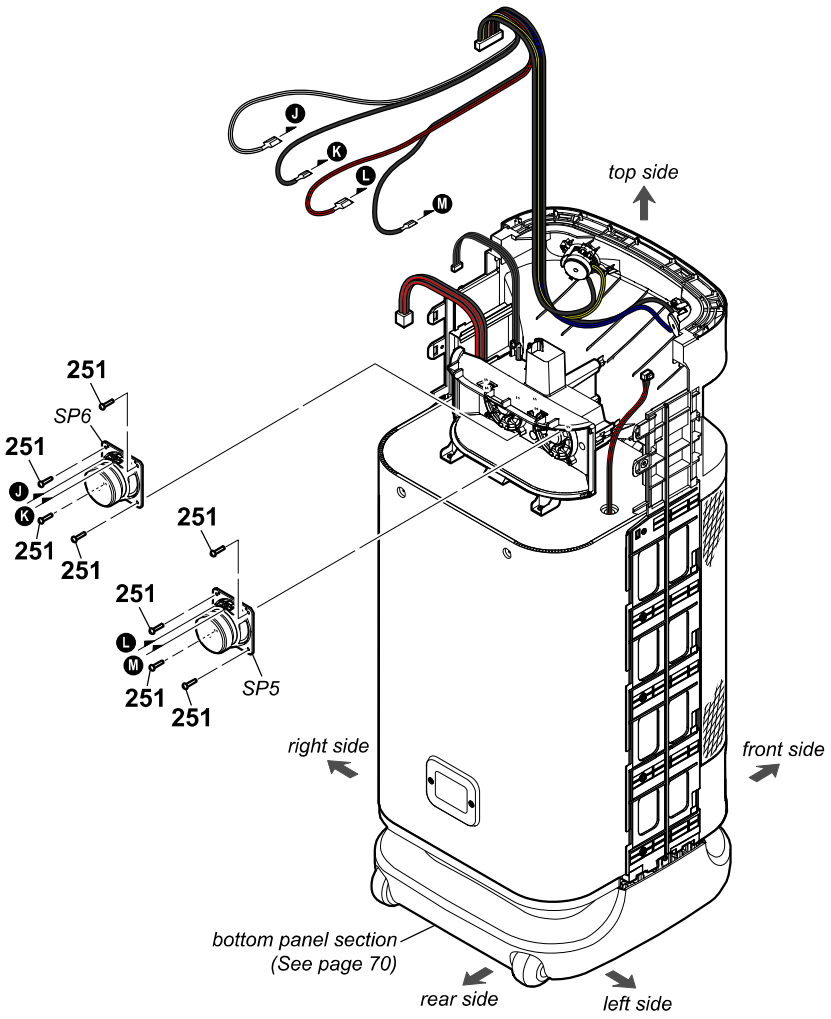
Note 2: When replacing the rear cabinet assy (Ref. No. 203) with a new part, open the jack cover (rear) on the rear side of the rear cabinet assembly, carefully peel off the model number label affixed to the inside, and affix it to the inside on the jack cover (rear) of the new rear cabinet assy.

Note 3: When replacing the jack cover (rear) (Ref. No. 204) with a new part, carefully peel off the model number label affixed to the inside on the jack cover (rear), and affix it to the inside of the new jack cover (rear).

Ref. No.	Part No.	Description	Remark
201	930102294	COVER, SCREW (REAR) (See Note 1)	
202	988521901	SCREW (M4X20) (BLACK)	
203	930102280	CABINET, REAR ASSY (with Jack cover (rear), PC sheet, Cushion) (See Note 2)	
204	930102281	JACK COVER (REAR) (with PC sheet) (See Note 3)	
205	930100773	SCREWS (43) (BLACK)	

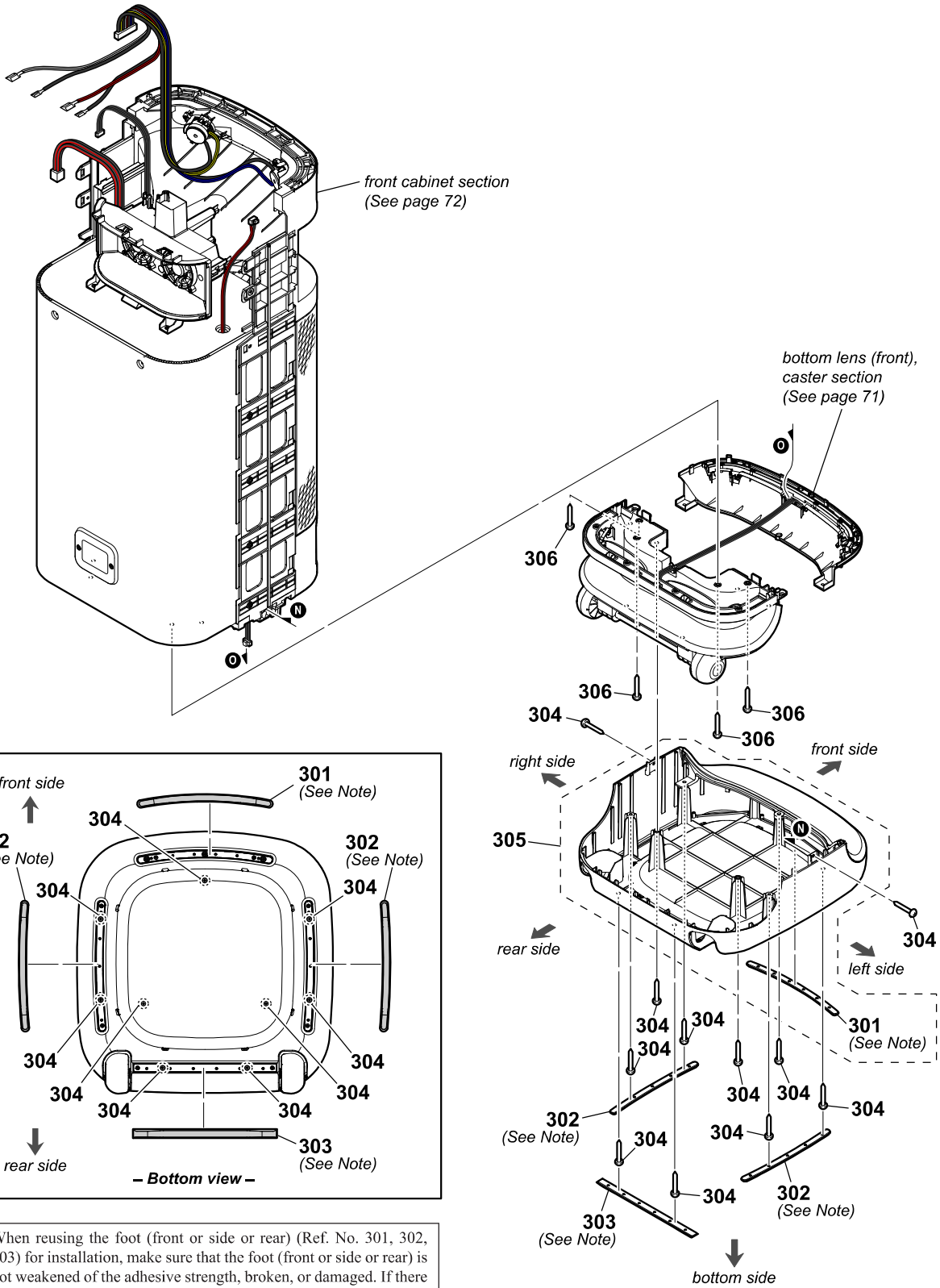
Ref. No.	Part No.	Description	Remark
SP3	930102265	SPEAKER, 4 cm (RL) (with Equalizer, Cushion) (Rear tweeter) (L-ch)	
SP4	930102266	SPEAKER, 4 cm (RR) (with Equalizer, Cushion) (Rear tweeter) (R-ch)	

4-6. MIDRANGE SECTION (WIRELESS SPEAKER)



Ref. No.	Part No.	Description	Remark
251	930100773	SCREWS (43) (BLACK)	
SP5	930102287	SPEAKER, 8 cm (Midrange) (L-ch)	
SP6	930102287	SPEAKER, 8 cm (Midrange) (R-ch)	

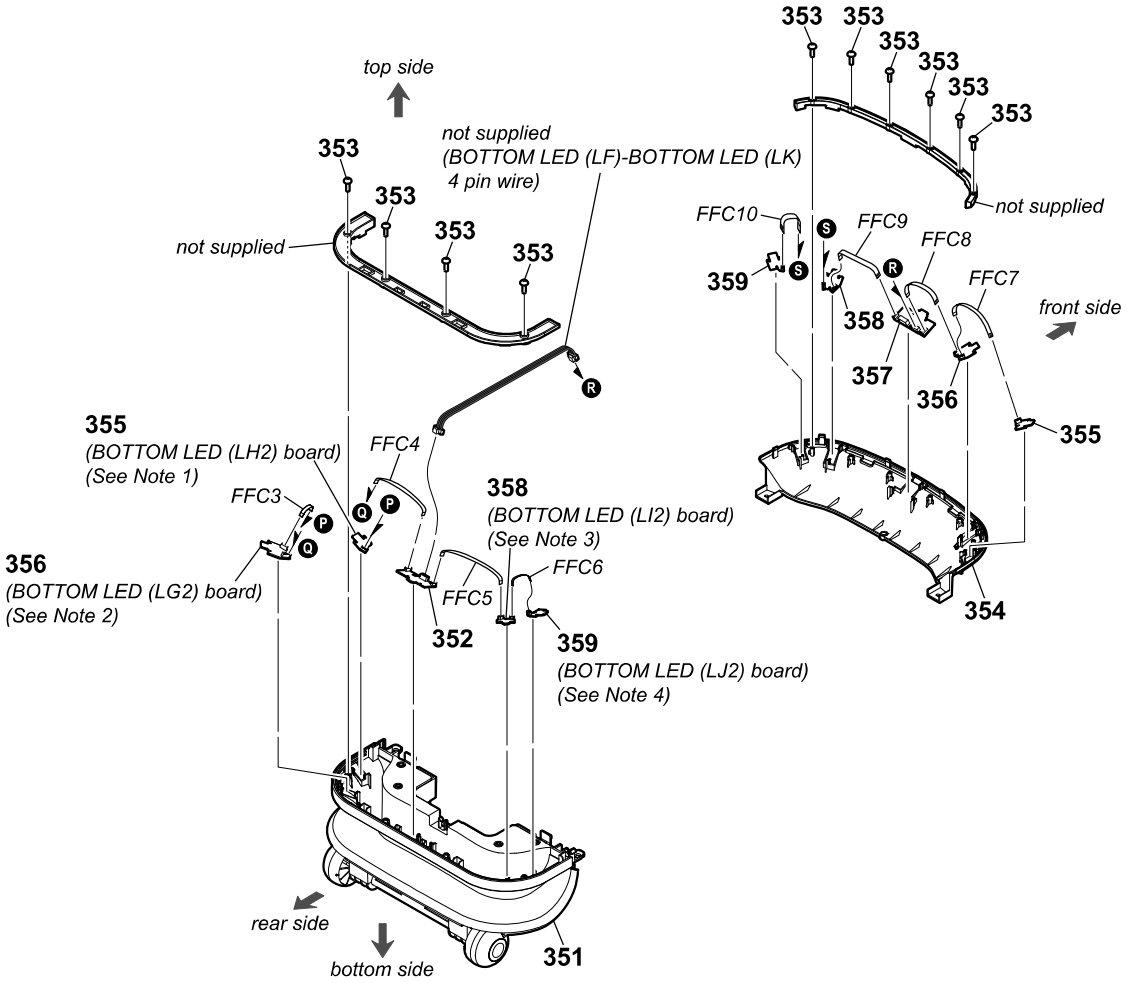
4-7. BOTTOM PANEL SECTION (WIRELESS SPEAKER)



Note: When reusing the foot (front or side or rear) (Ref. No. 301, 302, 303) for installation, make sure that the foot (front or side or rear) is not weakened of the adhesive strength, broken, or damaged. If there is weakened of the adhesive strength, broken, or damaged, do not reuse the foot (front or side or rear) and replace it with a new part.

Ref. No.	Part No.	Description	Remark
301	930102289	FOOT, FRONT (See Note)	
302	930102290	FOOT, SIDE (See Note)	
303	930102291	FOOT, REAR (See Note)	
304	930101956	SCREW, +BTP3.5X16 (B) (BLACK)	
305	930102288	PANEL, BOTTOM ASSY (with Bottom cover, Reflector (front), Front foot, Cushion, Screw)	
306	988521901	SCREW (M4X20) (BLACK)	

4-8. BOTTOM LENS (FRONT), CASTER SECTION (WIRELESS SPEAKER)



Note 1: When the BOTTOM LED (LH2) board is replaced with a new board, it will be replaced with the BOTTOM LED (LH) board (Ref. No. 355). The BOTTOM LED (LH) board and the BOTTOM LED (LH2) board differ in the Ref. No. of each electrical parts in addition to the board name.

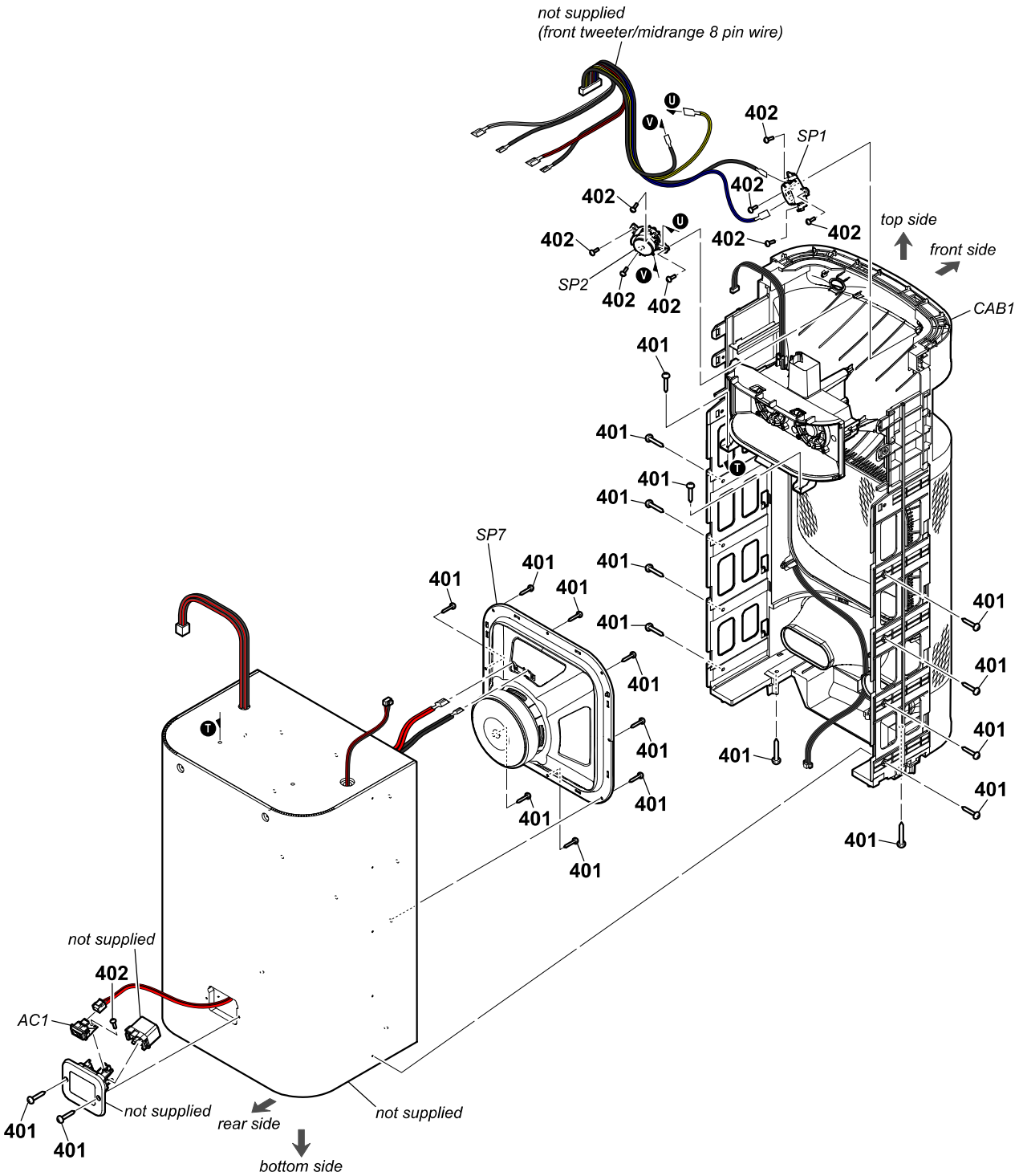
Note 2: When the BOTTOM LED (LG2) board is replaced with a new board, it will be replaced with the BOTTOM LED (LG) board (Ref. No. 356). The BOTTOM LED (LG) board and the BOTTOM LED (LG2) board differ in the Ref. No. of each electrical parts in addition to the board name.

Note 3: When the BOTTOM LED (LI2) board is replaced with a new board, it will be replaced with the BOTTOM LED (LI) board (Ref. No. 358). The BOTTOM LED (LI) board and the BOTTOM LED (LI2) board differ in the Ref. No. of each electrical parts in addition to the board name.

Note 4: When the BOTTOM LED (LJ2) board is replaced with a new board, it will be replaced with the BOTTOM LED (LJ) board (Ref. No. 359). The BOTTOM LED (LJ) board and the BOTTOM LED (LJ2) board differ in the Ref. No. of each electrical parts in addition to the board name.

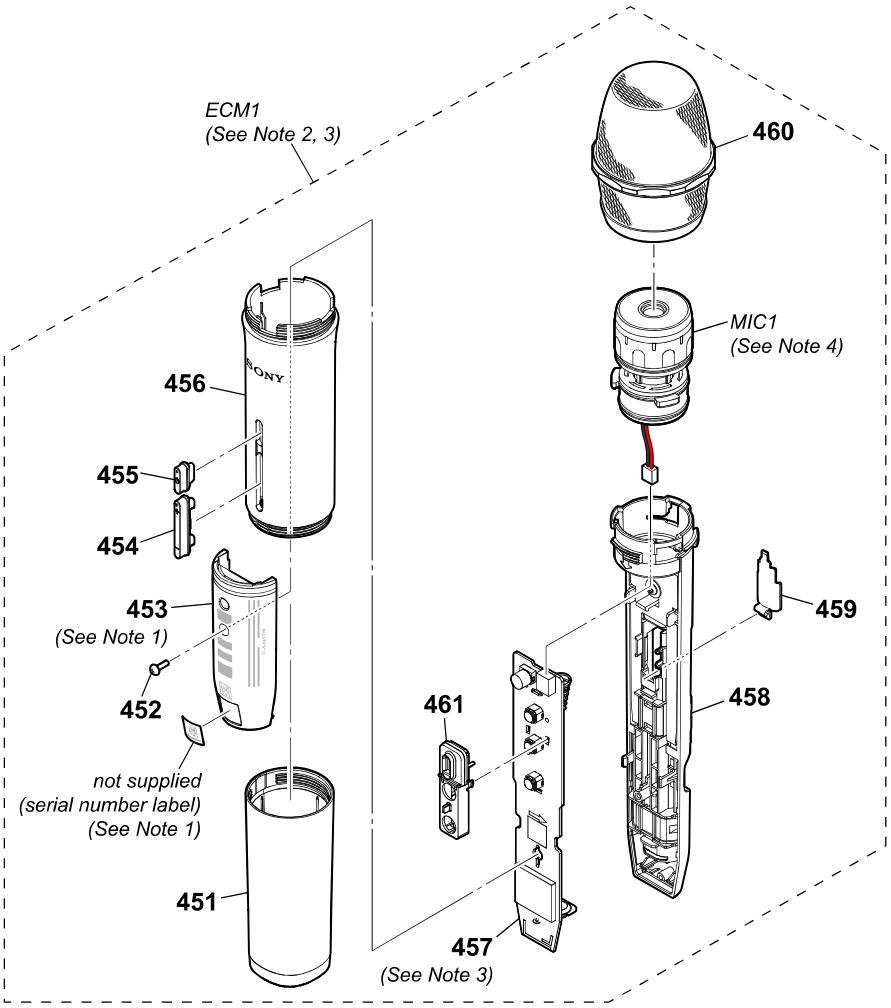
Ref. No.	Part No.	Description	Remark
351	930102286	CASTER ASSY (with Reflector (rear), Bottom lens (rear), Cushion)	
352	930102261	BOTTOM LED (LK) BOARD, COMPLETE	
353	930100773	SCREWS (43) (BLACK)	
354	930102285	LENS, BOTTOM (FRONT)	
355	930102258	BOTTOM LED (LH) BOARD, COMPLETE	(See Note 1)
356	930102257	BOTTOM LED (LG) BOARD, COMPLETE	(See Note 2)
357	930102256	BOTTOM LED (LF) BOARD, COMPLETE	
358	930102259	BOTTOM LED (LI) BOARD, COMPLETE	(See Note 3)
359	930102260	BOTTOM LED (LJ) BOARD, COMPLETE	(See Note 4)
FFC3	930102272	FFC (BOTTOM LED 3) (BOTTOM LED (LG2)-BOTTOM LED (LH2)) (6 core)	
FFC4	930102271	FFC (BOTTOM LED 2) (BOTTOM LED (LK)-BOTTOM LED (LG2)) (10 core)	
FFC5	930102271	FFC (BOTTOM LED 2) (BOTTOM LED (LK)-BOTTOM LED (LI2)) (10 core)	
FFC6	930102272	FFC (BOTTOM LED 3) (BOTTOM LED (LI2)-BOTTOM LED (LJ2)) (6 core)	
FFC7	930102272	FFC (BOTTOM LED 3) (BOTTOM LED (LG)-BOTTOM LED (LH)) (6 core)	
FFC8	930102270	FFC (BOTTOM LED 1) (BOTTOM LED (LF)-BOTTOM LED (LG)) (10 core)	
FFC9	930102270	FFC (BOTTOM LED 1) (BOTTOM LED (LF)-BOTTOM LED (LI)) (10 core)	
FFC10	930102272	FFC (BOTTOM LED 3) (BOTTOM LED (LI)-BOTTOM LED (LJ)) (6 core)	

4-9. FRONT CABINET SECTION (WIRELESS SPEAKER)



Ref. No.	Part No.	Description	Remark
401	988521901	SCREW (M4X20) (BLACK)	
402	930100773	SCREWS (43) (BLACK)	
⚠ AC1	930102262	AC INLET	
CAB1	930102282	CABINET, FRONT ASSY (with Grill, Cushion, Wire (MAIN board - BOTTOM LED (LF) board)	
SP1	930102264	SPEAKER, 4 cm (FLR) (with Equalizer, Cushion) (Front tweeter) (L-ch)	
SP2	930102264	SPEAKER, 4 cm (FLR) (with Equalizer, Cushion) (Front tweeter) (R-ch)	
SP7	930102267	SPEAKER, 32 cm (X-BALANCED) (Woofer)	

4-10. MICROPHONE SECTION (WIRELESS MICROPHONE)



Note 1: When replacing the PCB cap (Ref. No. 453) with a new part, carefully peel off the serial number label affixed on the PCB cap, and affix it on the new PCB cap.

Note 2: When the wireless microphone (Ref. No. ECM1) is replaced with a new wireless microphone, the serial number will be changed.

Note 3: When the wireless microphone (Ref. No. ECM1) is replaced with a new wireless microphone, or the complete MICROPHONE board (Ref. No. 457) is replaced with a new board, be sure to refer to "IMPORTANT NOTE OF REPLACING THE WIRELESS MICROPHONE OR THE MICROPHONE BOARD" on page 8, and perform each work.

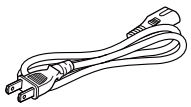
Note 4: Be careful not to touch the tip of the microphone (Ref. No. MIC1).

Ref. No.	Part No.	Description	Remark
451	930102297	COVER, BATTERY	
452	930102380	SCREW, 2.3X6 (BLACK)	
453	930102298	CAP, PCB (UC2) (Including weight parts) (See Note 1)	
454	930102309	BUTTON, VOLUME (+, −)	
455	930102308	BUTTON, POWER (⏻)	
456	930102307	BODY	
457	930102311	MICROPHONE BOARD, COMPLETE (See Note 3)	
458	930102312	BASE ASSY (Including weight parts)	
459	930102313	TERMINAL COVER	
460	930102296	GRILLE	
461	930102390	BUTTON COVER	
ECM1	A5067156A	ECM-ULT1 (Wireless microphone (YY7860E)) (See Note 2, 3)	
MIC1	930102310	MICOPHONE (See Note 4)	

SECTION 5
ACCESSORIES

Ref. No.	Part No.	Description	Remark
	505657611	REFERENCE GUIDE (ENGLISH, FRENCH, SPANISH)	
⚠ 901	930101982	AC CORD (UC) (AC power cord (mains lead))	
904	930101989	OPTICAL CABLE (Optical digital cable (optical rectangular plug ⟷ optical rectangular plug))	

901
AC power cord (mains lead) (1)



904
Optical digital cable (optical rectangular plug ⟷ optical rectangular plug) (1)

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