

# HT-ST5000

## SA-ST5000

# 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.

# HT-ST5000

## SA-ST5000

# SERVICE MANUAL

US Model



- All of the units included in the HT-ST5000 (SA-ST5000/SA-WST5000/Remote control) are required to confirming operation of SA-ST5000. Check in advance that you have all of the units.

### COMPONENT MODEL NAME (HT-ST5000)

Bar Speaker (Active Speaker System)	SA-ST5000
Subwoofer (Active Subwoofer)	SA-WST5000

- Please refer to service manual separately issued for Subwoofer.

### SPECIFICATIONS

#### Amplifier section

##### POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

(FTC)

Front L + Front R:

With 6 ohms loads, both channels driven, from 200 - 6,000 Hz; rated 20 W per channel minimum RMS power, with no more than 1% total harmonic distortion from 250 mW to rated output.

Front tweeter L + Front tweeter R: With 6 ohms loads, both channels driven, from 6,000 - 20,000 Hz; rated 20 W per channel minimum RMS power, with no more than 1% total harmonic distortion from 250 mW to rated output.

##### POWER OUTPUT (reference)

Front L/Front R speaker blocks: 50 W (per channel at 6 ohms, 1 kHz)

Front tweeter L/Front tweeter R speaker blocks: 50 W (per channel at 6 ohms, 10 kHz)

Center speaker block: 50 W (per channel at 6 ohms, 1 kHz)

Center tweeter speaker block: 50 W (per channel at 6 ohms, 10 kHz)

Top speaker block: 50 W (per channel at 6 ohms, 1 kHz)

##### Inputs

HDMI IN 1/2/3\*

ANALOG IN

TV IN (OPT)

##### Outputs

HDMI OUT (TV (eARC/ARC))\*

- \* HDMI IN 1/2/3 and HDMI OUT (TV (eARC/ARC)) jacks support HDCP 2.2 protocol. HDCP 2.2 is newly enhanced copyright protection technology that is used to protect content such as 4K movies.

#### HDMI Section

##### Connector

Type A (19pin)

#### USB section

##### USB (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

Frequency band

2.4 GHz, 5 GHz

#### BLUETOOTH section

Communication system

BLUETOOTH Specification version 4.1

Output

BLUETOOTH Specification Power Class 1

Maximum communication range

Line of sight approx. 30 m<sup>1)</sup>

Maximum number of devices to be

registered

9 devices

Frequency band

2.4 GHz band (2.4 GHz - 2.4835 GHz)

Modulation method

FHSS (Freq Hopping Spread Spectrum)

Compatible BLUETOOTH profiles<sup>2)</sup>

A2DP 1.2 (Advanced Audio Distribution Profile)

AVRCP 1.5 (Audio Video Remote Control Profile)

Supported Codecs<sup>3)</sup>

SBC<sup>4)</sup>, AAC<sup>5)</sup>, 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)

- 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.

- BLUETOOTH standard profiles indicate the purpose of BLUETOOTH communication between devices.

- Codec: Audio signal compression and conversion format

- Abbreviation for Subband Codec

- Abbreviation for Advanced Audio Coding

#### Front L/Front R speaker block section

Speaker system

2-way coaxial speaker system,

Acoustic suspension

Speaker

Woofer: 65 mm (2 5/8 in.) cone type,

Magnetic fluid speaker

Tweeter: 14 mm (9/16 in.) soft dome type

#### Center speaker block section

Speaker system

Center: 2-way coaxial speaker system,

Acoustic suspension

Satellite: Full range speaker system,

Acoustic suspension

Speaker (5 speakers)

Center woofer: 65 mm (2 5/8 in.) cone type,

Magnetic fluid speaker

Tweeter: 14 mm (9/16 in.) soft dome type

Satellite: 65 mm (2 5/8 in.) cone type,

Magnetic fluid speaker

#### Top speaker block section

Speaker system

Full range speaker system, Acoustic suspension

Speaker

65 mm (2 5/8 in.) cone type, Magnetic fluid speaker

#### General

Power requirements

120 V AC, 60 Hz

Power consumption

On: 90 W

For details about the power consumption during standby mode, see "Power Consumption by the Setting Value for Each Standby Mode".

Dimensions\* (approx.) (w/h/d)

1,180 mm × 80 mm × 142 mm (46 1/2 in × 3 1/4 in × 5 5/8 in) (without grille

frame)

1,180 mm × 80 mm × 145 mm (46 1/2 in × 3 1/4 in × 5 3/4 in) (with grille frame)

\*Not including projection portion

Mass (approx.)

8.3 kg (18 lb 4 4/5 oz) (without grille

frame)

8.8 kg (19 lb 6 2/5 oz) (with grille

frame)

#### Compatible iPhone/iPod models

The compatible iPhone/iPod models are as follows. Update your iPhone/iPod with the latest software before using with the system.

Made for:

iPhone 7/iPhone 7 Plus/iPhone SE/iPhone

6s/iPhone 6s Plus/iPhone 6/iPhone 6

Plus/iPhone 5s/iPhone 5c/iPhone 5/

iPhone 4s

iPod touch (6th generation)/iPod touch

(5th generation)

#### Wireless transmitter section

Communication system

Wireless Sound Specification version

3.0

Frequency band

5.2 GHz (5.180 GHz - 5.240 GHz)

5.8 GHz (5.736 GHz - 5.814 GHz)

Modulation method

DSSS

#### What's in the Box

- Bar Speaker (1)
- Grille frame (1)
- Subwoofer (1)
- Remote control (1)
- R03 (size AAA) battery (2)
- HDMI cable (supports the specification equal to Premium High Speed HDMI cable with Ethernet) (1)
- WALL MOUNT TEMPLATE (1)
- Startup Guide
- Operating Instructions

Design and specifications are subject to change without notice.

HT-ST5000  
SOUND BAR  
SA-ST5000  
ACTIVE SPEAKER SYSTEM



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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)

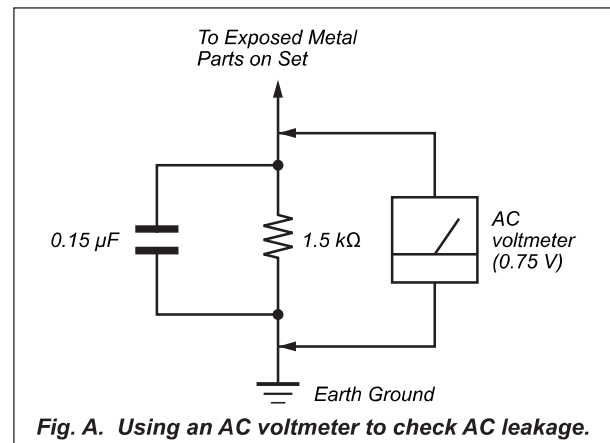


Fig. A. Using an AC voltmeter to check AC leakage.

### SAFETY-RELATED COMPONENT WARNING!

COMPONENTS IDENTIFIED BY MARK  $\triangle$  OR DOTTED LINE WITH MARK  $\triangle$  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 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.

### ADVANCE PREPARATION WHEN CONFIRMING OPERATION

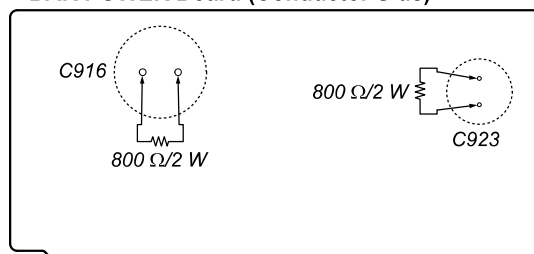
All of the units included in the HT-ST5000 (SA-ST5000/SA-WST5000/Remote control) are required to confirming operation of SA-ST5000. Check in advance that you have all of the units.

### DISCHARGE PROCESSING

Before checking the operation of the boards 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 discharge using a resistor of 800 Ω or higher.

#### – BAR POWER Board (Conductor Side) –



### NOTE OF PERFORMING THE OPERATION CHECK IN THE STATE THAT HEAT SINK IS REMOVED

When performing the operation check in the state that this unit is disassembled, it is possible to perform the operation check in the state that heat sink is removed. However, don't perform the operation check in the long time, and perform the operation check in the volume state as low as possible.

In addition, notice that the board becomes heat just by the state of turn on electricity because the this unit has many channels.

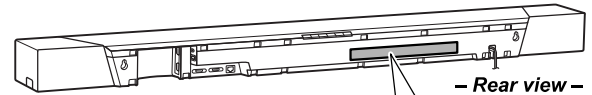
### MODEL IDENTIFICATION

When checking the destination, check that "UC2" is indicated at the right side of the model number label on the rear side.

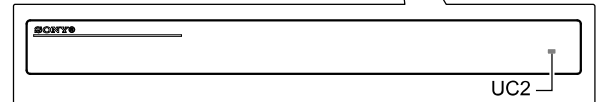
When "UC2" is indicated, it is SA-ST5000 for US.

When "UC2" is not indicated, it is SA-ST5000 other than US.

**Note:** The contents of model number label might be changed in the mid-way of production.



#### MODEL NUMBER LABEL



## HT-ST5000

### NETWORK CONNECTION CHECKING METHOD


When checking the network connection, refer to the following.

#### 1. Checking method of wireless LAN connection

##### Necessary equipment:

- TV monitor
- Access point supporting WPS

##### Procedure:

1. Connect this unit 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 “Network Settings”, and press the [⊖] button on the remote control.
6. Press the [▲]/[▼] buttons on the remote control to select the “Internet Settings”, and press the [⊖] button on the remote control.
7. Press the [▲]/[▼] buttons on the remote control to select the “Wireless Setup”, and press the [⊖] button on the remote control.
8. Press the [▲]/[▼] buttons on the remote control to select the “Wi-Fi Protected Setup™ (WPS)”, and press the [⊕] button on the remote control.
9. The message “Start” is displayed.
10. Press the [⊖] button on the remote control, and press the [WPS] button on the access point.
11. When wireless LAN connection is completed, “Wireless Connection: OK” and “Internet Access: OK” is displayed.


**Note:** Refer to the Operating Instructions about details of the connection method.

#### 2. Checking method of wired LAN connection

##### Necessary equipment:

- TV monitor
- Router
- Network LAN cable

##### Procedure:

1. Connect this unit with TV monitor.
2. Connect this unit 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 “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.
8. Press the [▲]/[▼] buttons on the remote control to select the “Wired Setup”, and press the [⊖] button on the remote control.
9. Press the [▲]/[▼] buttons on the remote control to select the “Auto”, and press the [⊖] button on the remote control.
10. The “The network will be configured with the following settings” screen is display, and press the [▶] button on the remote control.

11. Press the [▲]/[▼] buttons on the remote control to select the “Save & Connect”, and press the [⊖] button on the remote control.
12. When wired LAN connection is completed, “Physical Connection: OK” and “Internet Access: OK” is displayed.

**Note:** Refer to the Operating Instructions about details of the connection method.

### NFC CONNECTION CHECKING METHOD

When checking the NFC connection, refer to the following.

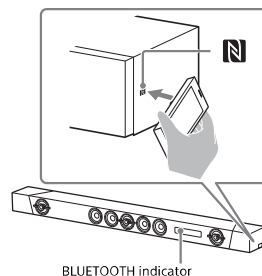
#### Connecting to a Mobile Device by One-Touch Function (NFC)

By holding an NFC-compatible mobile device such as a smartphone or tablet near the N mark on the main unit, the system is turned on automatically, then pairing and BLUETOOTH connection are performed automatically.

##### Compatible devices

Smartphones, tablets, and music players with the NFC function built-in (OS: Android™ 2.3.3 or later, excluding Android 3.x)

1. Turn on the NFC function of the mobile device.
2. Touch the N mark on the main unit with the mobile device.  
Keep touching until the mobile device vibrates and message appears on the mobile device. Follow the on-screen instructions to complete pairing of the main unit and mobile device.



3. Make sure that the BLUETOOTH indicator lights in blue.

A connection between the system and mobile device has been established.

4. Start audio playback with the music app on the connected mobile device.

Sound is output from the system.



**Note:** If the NFC connection does not operate normally, check the following connection status.

- The connection state between the NFC board and the USB-CHUKEI board (CN1805).
- The connection state between the USB-CHUKEI board (CN1803) and the CHUKEI-WIRE board (CN2304).
- The connection state between the CHUKEI-WIRE board (CN2301) and the DISPLAY board (CN1704).
- The connection state between the DISPLAY board (CN1705) and the MB-1611 board (CN3007).

### WIRELESS CONNECTION (LINK) WORK OF BAR SPEAKER AND SUBWOOFER

By replacing the parts or performing the initialization, the wireless connection of the bar speaker and the subwoofer may be disconnected. If the wireless connection cannot be made automatically even it turn the power on, refer to the operating instructions of the HT-ST5000 and perform the secure link.

#### 5 Adjust the volume.

- Adjust the volume by pressing  +/- on the remote control.
- Adjust the subwoofer volume by pressing SW  +/- on the remote control.
- You can play or pause the content by using the playback operation buttons on the remote control.

#### To stop playback by One-touch function

Touch the N mark on the main unit with the mobile device again.

##### Notes

- Depending on your device, you may need to perform the following items on your mobile device in advance.
  - Turn on the NFC function.
  - Install the “NFC Easy Connect” application from Google Play™ and start the application. (The application may not be available in some countries/regions.) For details, refer to the operating instructions of your device.
- This feature does not work with BLUETOOTH-compatible headphones. To listen to sound using a BLUETOOTH-compatible headphones, see “Listening to Sound of the Connected TV or Device from Headphones”.
- [Bluetooth Mode] is changed to [Receiver] automatically when making BLUETOOTH connection with the One-touch function. Even if the One-touch function is canceled, the [Bluetooth Mode] setting remains as [Receiver]. For details about [Bluetooth Mode], see [Bluetooth Settings].
- If your mobile device is a type that goes into standby mode in response to magnetic force, it may not be able to be connected by NFC. When the One-touch function does not work, connect it by using the BLUETOOTH function.


### “PRTCT”, “PUSH” AND “POWER” FLASH ALTERNATELY IN THE FRONT PANEL DISPLAY

- Press  $\odot$  (power) to turn off the system. After the indicator disappears, disconnect the AC power cord (mains lead) and make sure nothing is obstructing the ventilation holes of the system.

### RESETTING THE SYSTEM

It can return each settings to the initial state of factory shipment.

**Note 1:** To delete the Bluetooth pairing information, perform the “If You Cannot Perform Resetting Using the Home Menu” in the following.

- 1 Press HOME.**  
The home menu appears on the TV screen.
- 2 Select  [Setup] from the home menu.**  
The setup display appears on the TV screen.
- 3 Select [Resetting] - [Reset to Factory Default Settings].**
- 4 Select the menu item you want to reset.**
- 5 Select [Start].**

#### To cancel resetting

Select [Cancel] in step 5.

#### If You Cannot Perform Resetting Using the Home Menu

Press and hold  $\odot$  (power) and – on the main unit for more than 5 seconds. The settings return to their initial status.

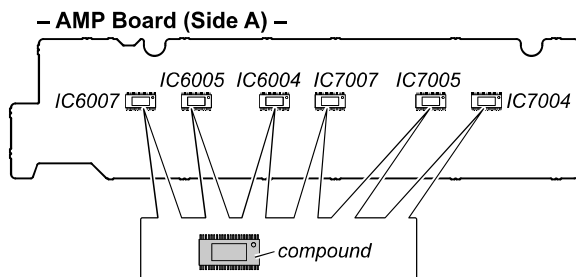
**Note 2:** By perform resetting, the link with the subwoofer may be lost. In this case, refer to “WIRELESS CONNECTION (LINK) WORK OF BAR SPEAKER AND SUBWOOFER” on page 6.

### NOTE OF REPLACING THE NFC BOARD FOR REPAIRING

The mounted parts cannot be replaced with single for repairing. Also, after replacing the NFC board please refer to “NFC CONNECTION CHECKING METHOD” on page 6.

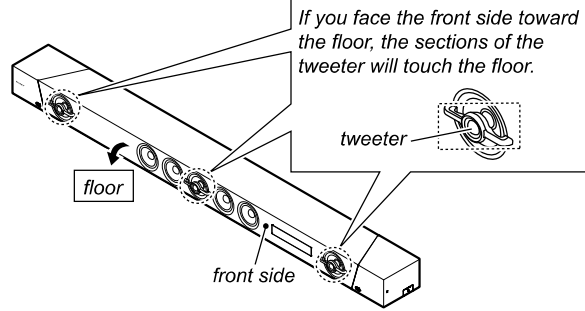
### ABOUT THE COMPOUND FOR HEAT RADIATION

The compound for heat radiation is applied to the touching portion between the IC6004, IC6005, IC6007, IC7004, IC7005, IC7007 on the AMP board and the heat sink. When the heat sink is removed, be careful not to touch the compound for heat radiation.

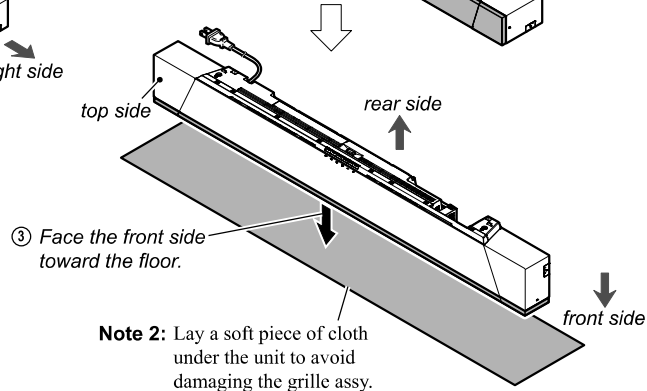
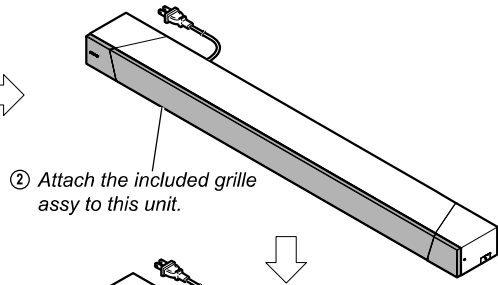
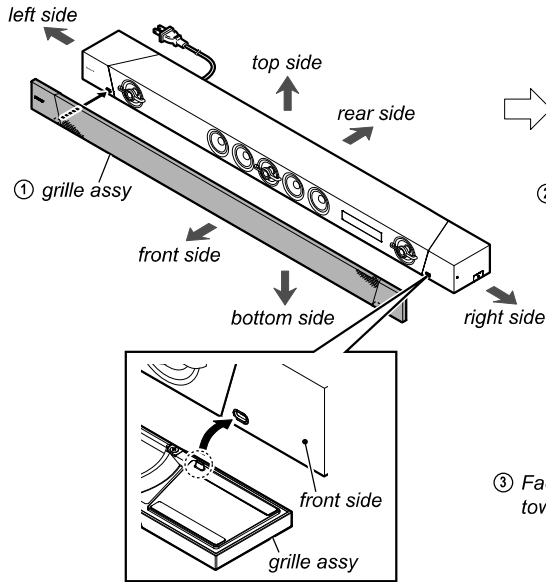


## SECTION 2 DISASSEMBLY

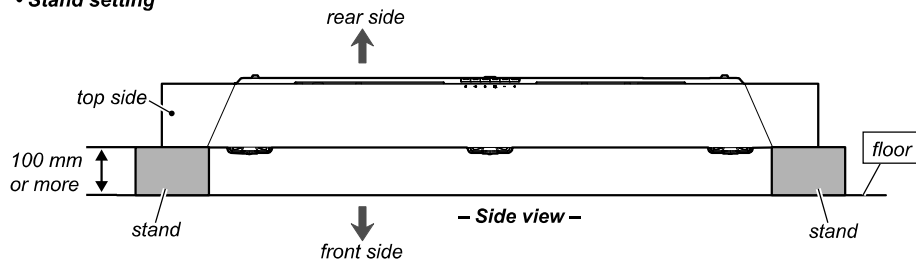
**Note 1:** When disassembling this unit, facing the front side of the unit toward the floor will make the tweeter touch the floor and may result in damage.  
 Make sure to attach the included grille assy to this unit when facing the front side of the unit toward the floor.  
 If you cannot prepare the grille assy, prepare a stand high enough so that the tweeter does not touch the floor, and place the unit on top of the stand to perform work.



**• Grille assy setting**

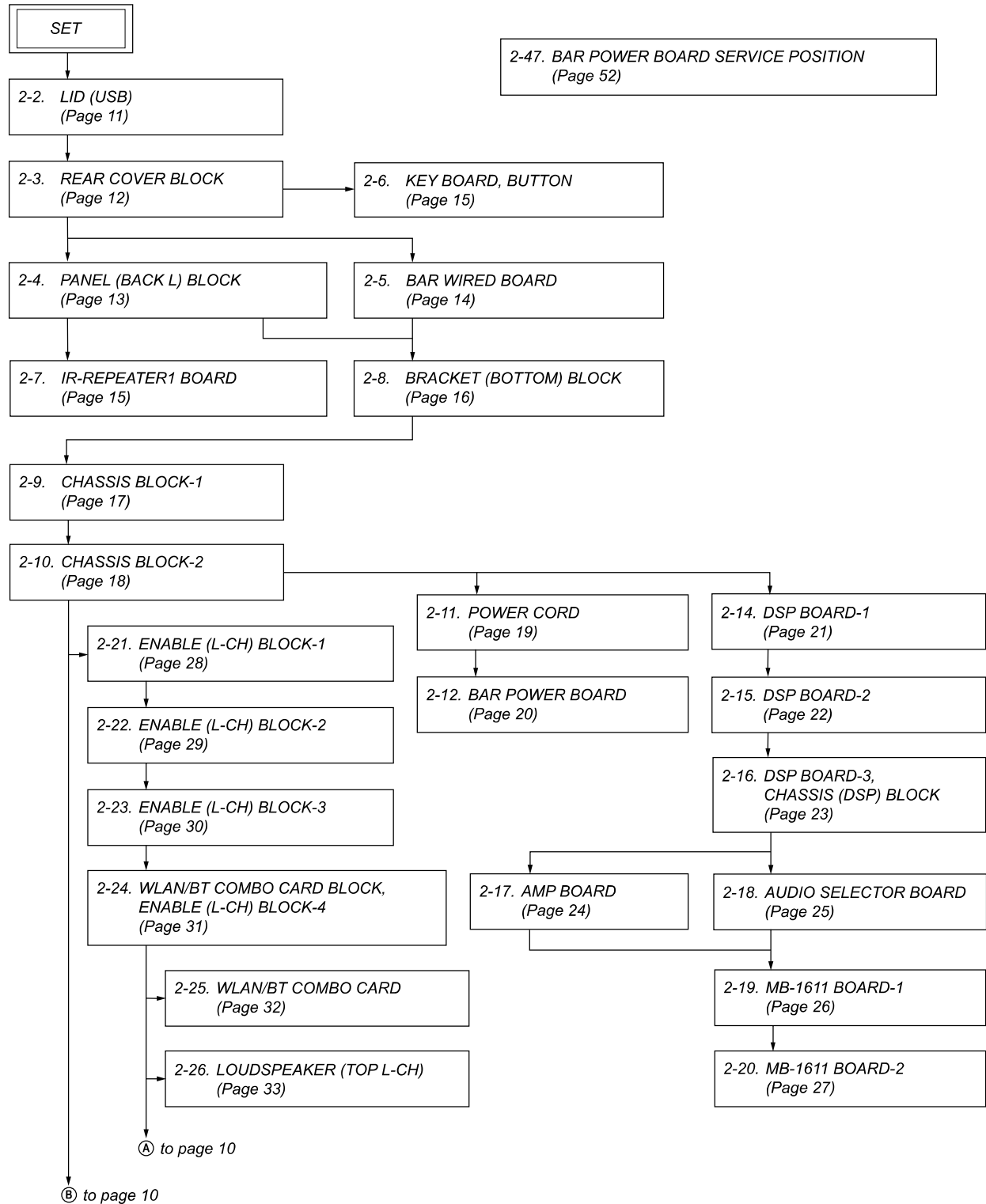


**• Stand setting**



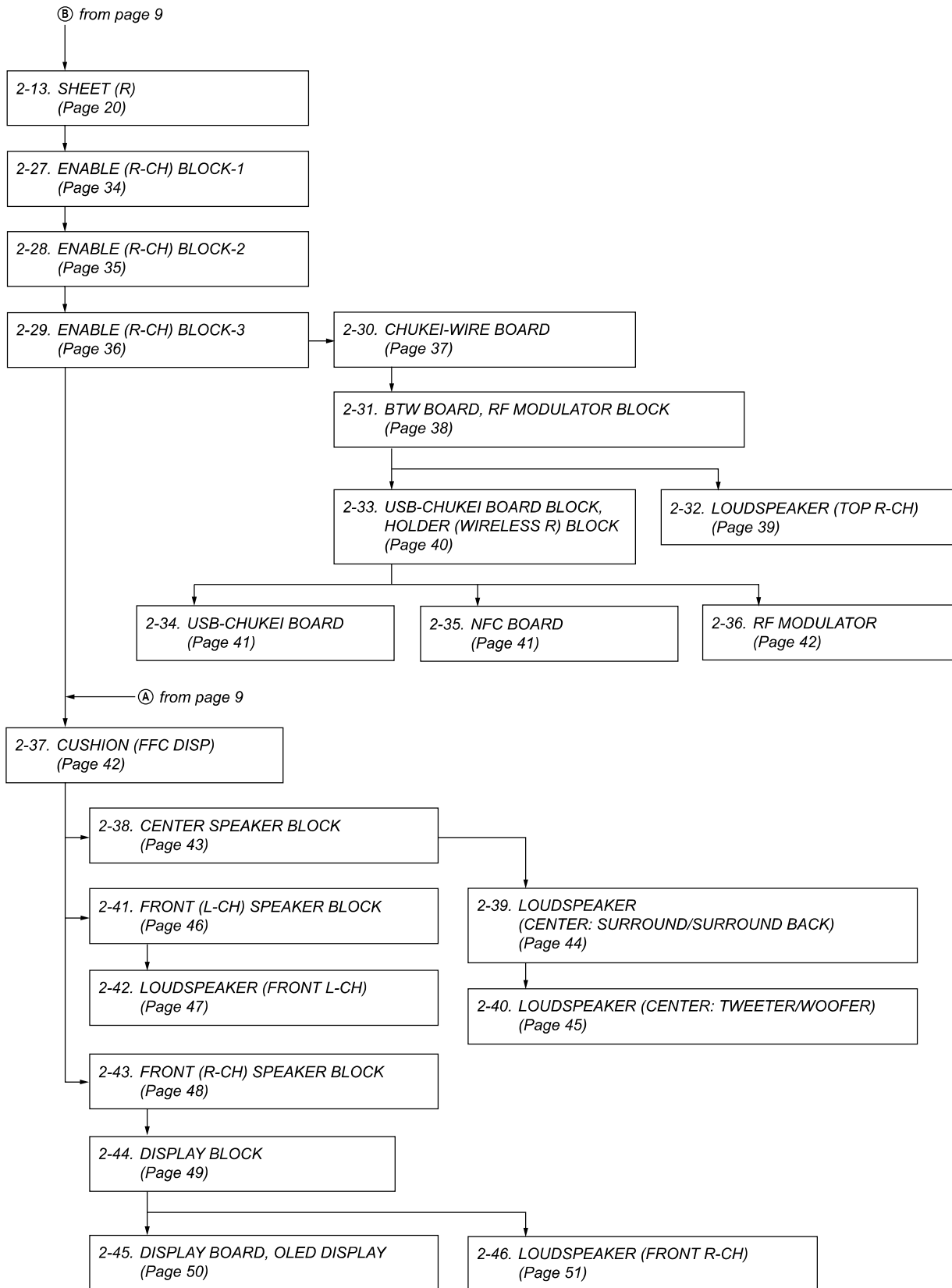
- This set can be disassembled in the order shown below.

**2-1. DISASSEMBLY FLOW**





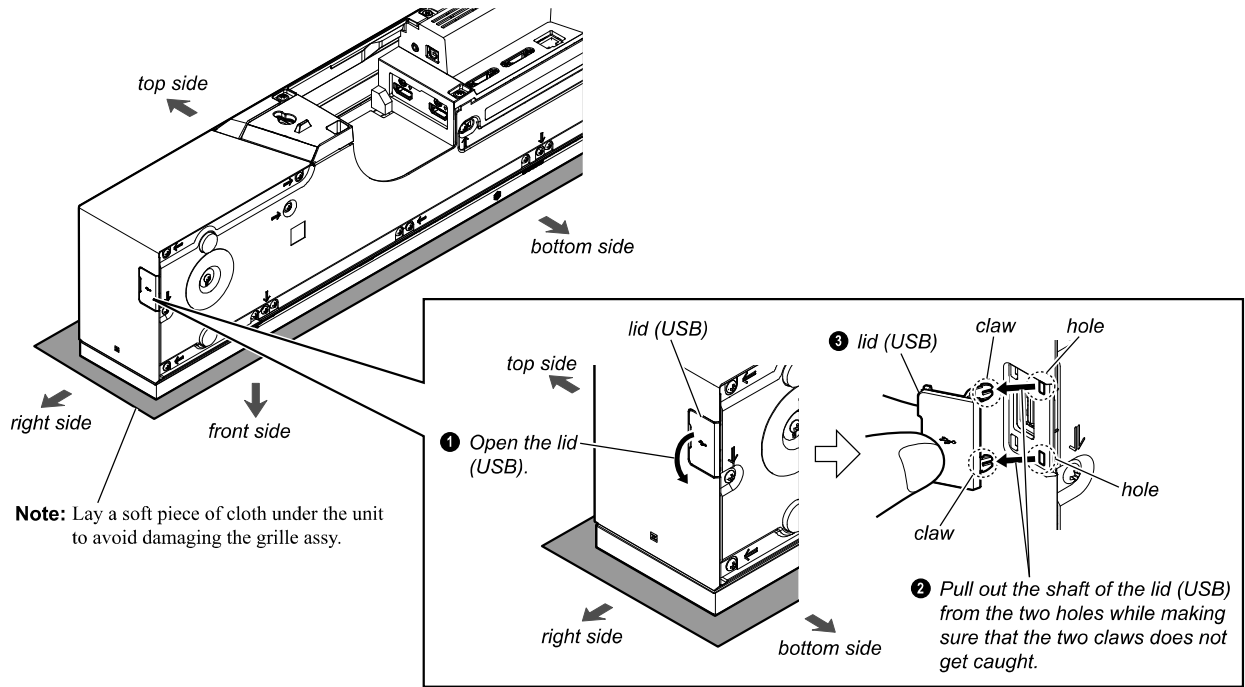
## HT-ST5000





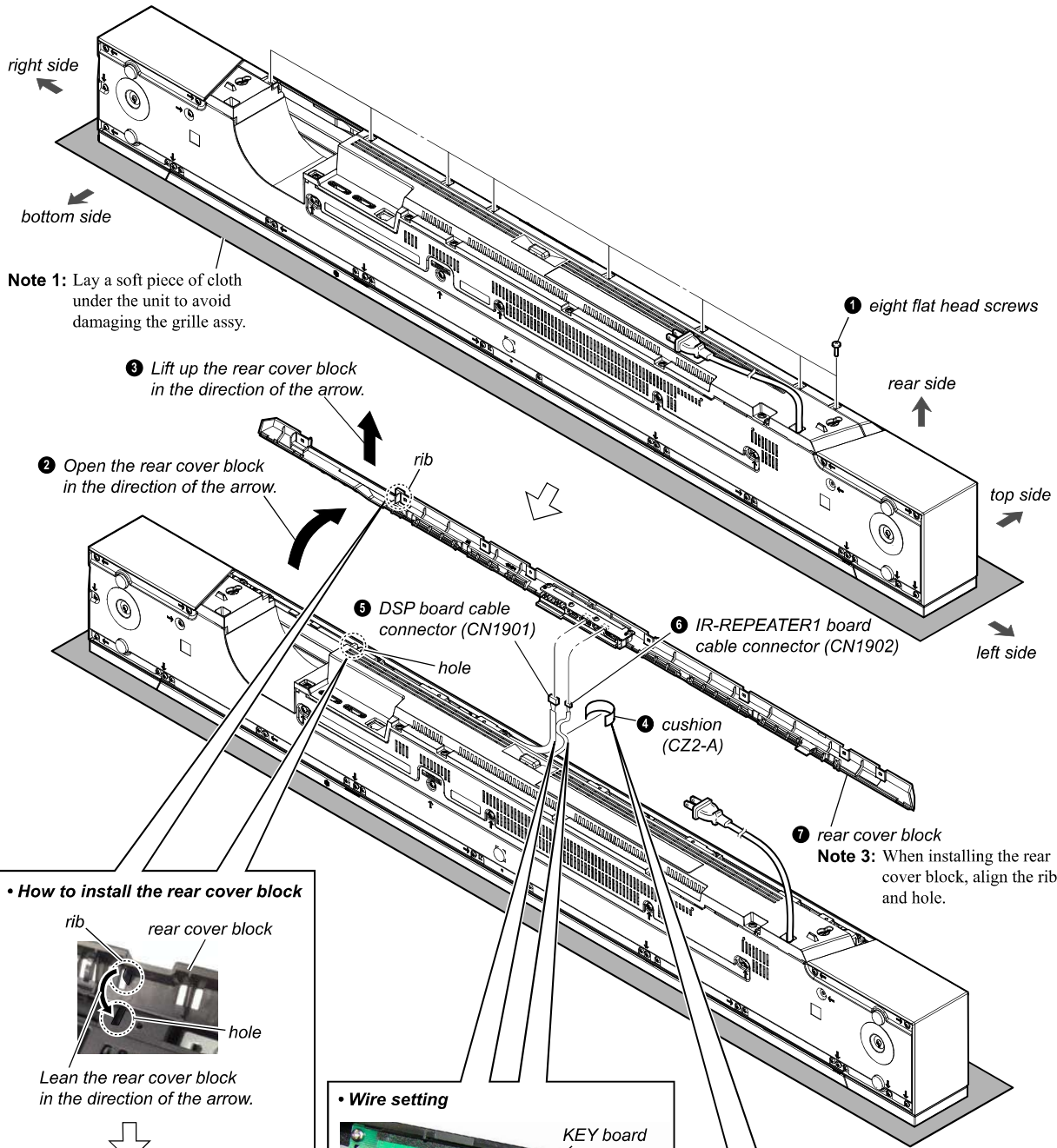
**Note:** Follow the disassembly procedure in the numerical order given.

## 2-2. LID (USB)



# HT-ST5000

## 2-3. REAR COVER BLOCK



**Note 1:** Lay a soft piece of cloth under the unit to avoid damaging the grille assy.

- 1 eight flat head screws
- 2 Open the rear cover block in the direction of the arrow.
- 3 Lift up the rear cover block in the direction of the arrow.

1 eight flat head screws

5 DSP board cable connector (CN1901)

6 IR-REPEATER1 board cable connector (CN1902)

4 cushion (CZ2-A)

7 rear cover block

**Note 3:** When installing the rear cover block, align the rib and hole.

**• How to install the rear cover block**

Lean the rear cover block in the direction of the arrow.

Push.

bottom side

rear cover block

– Rear view –

**• Wire setting**

KEY board

Push.

Push.

**Note 2:** When installing the rear cover block, push the two cables into the unit.

**• Wire setting**

DSP board cable

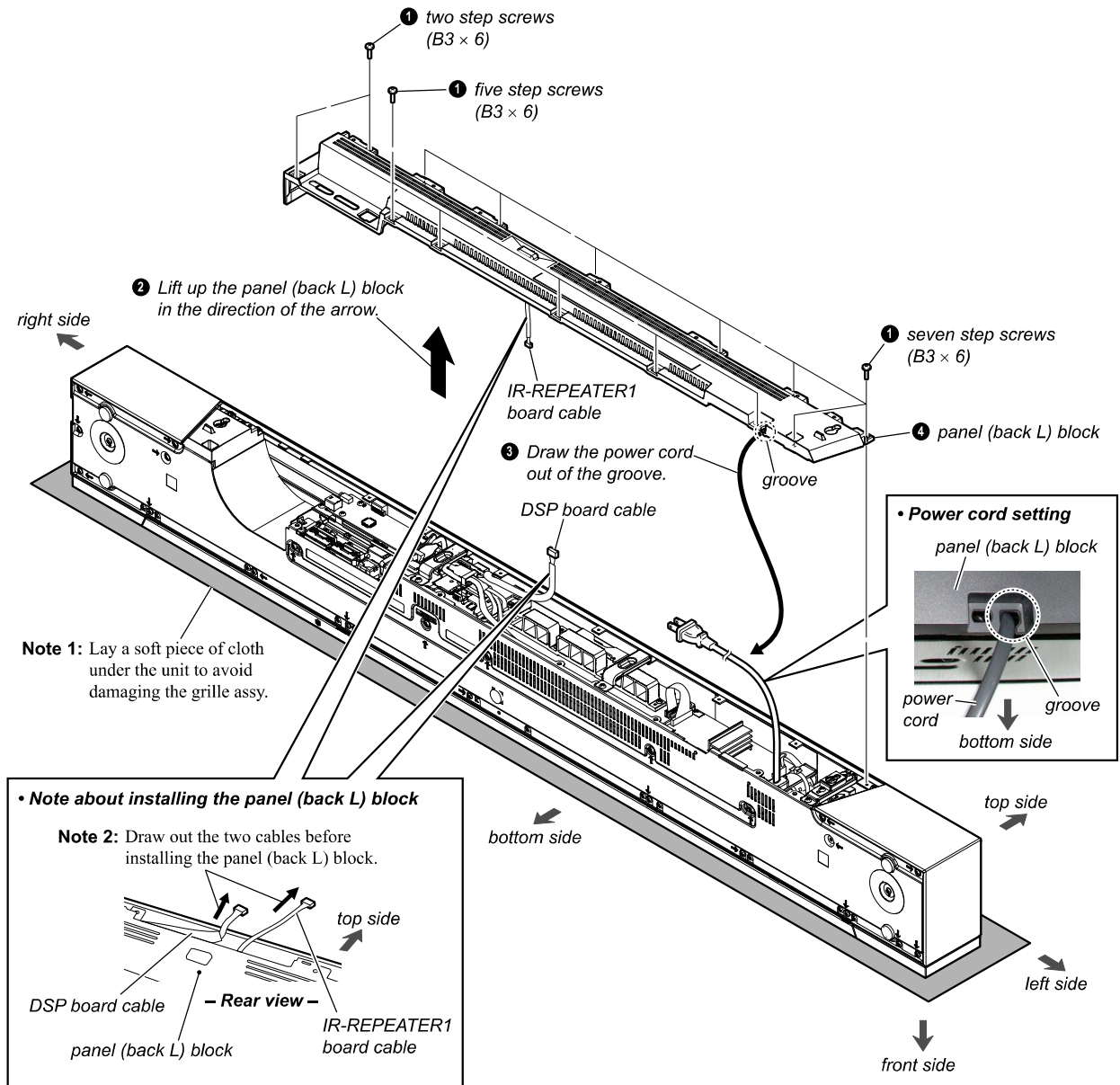
IR-REPEATER1 board cable

cushion (CZ2-A)

top side

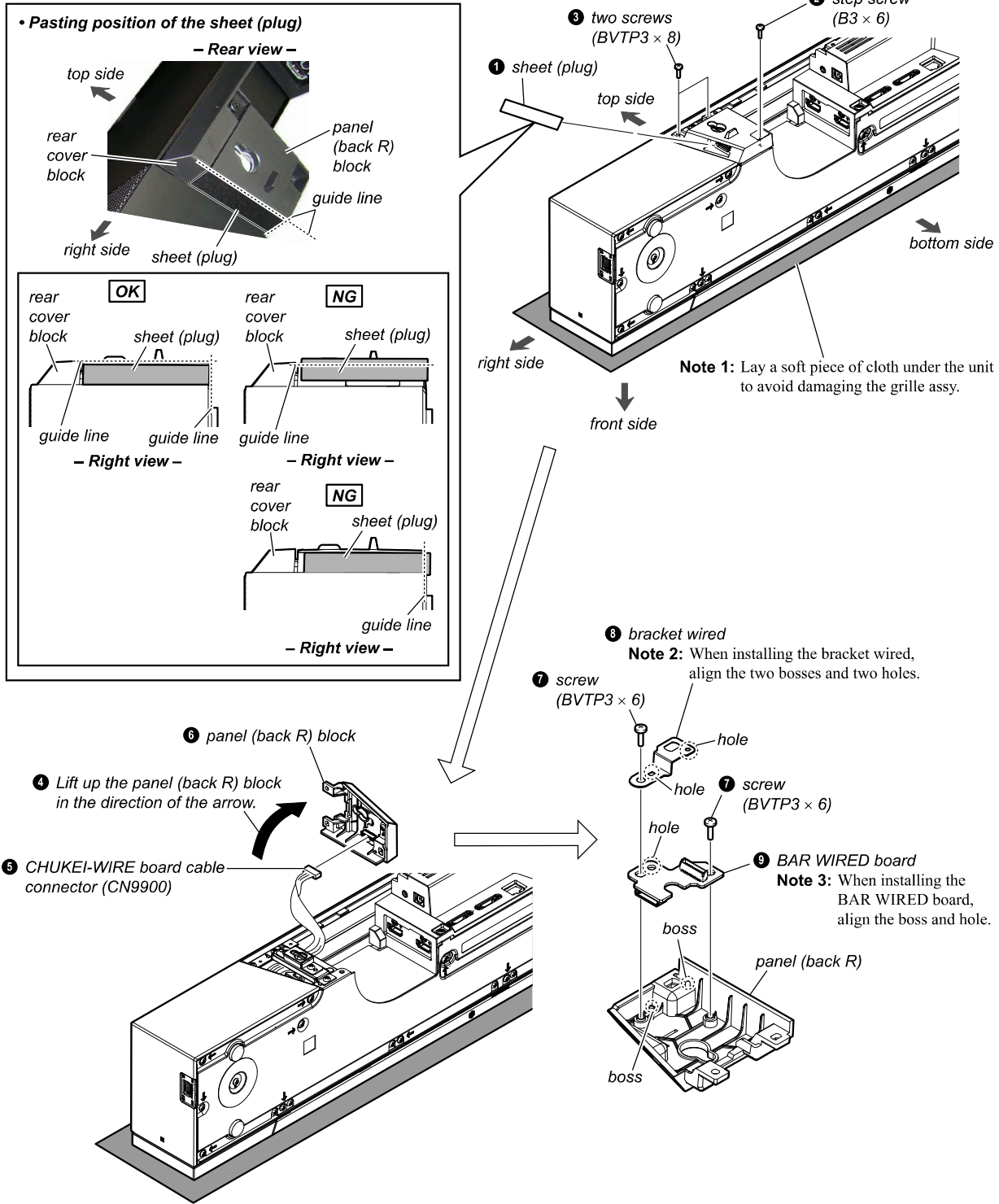
– Rear view –

2-4. PANEL (BACK L) BLOCK

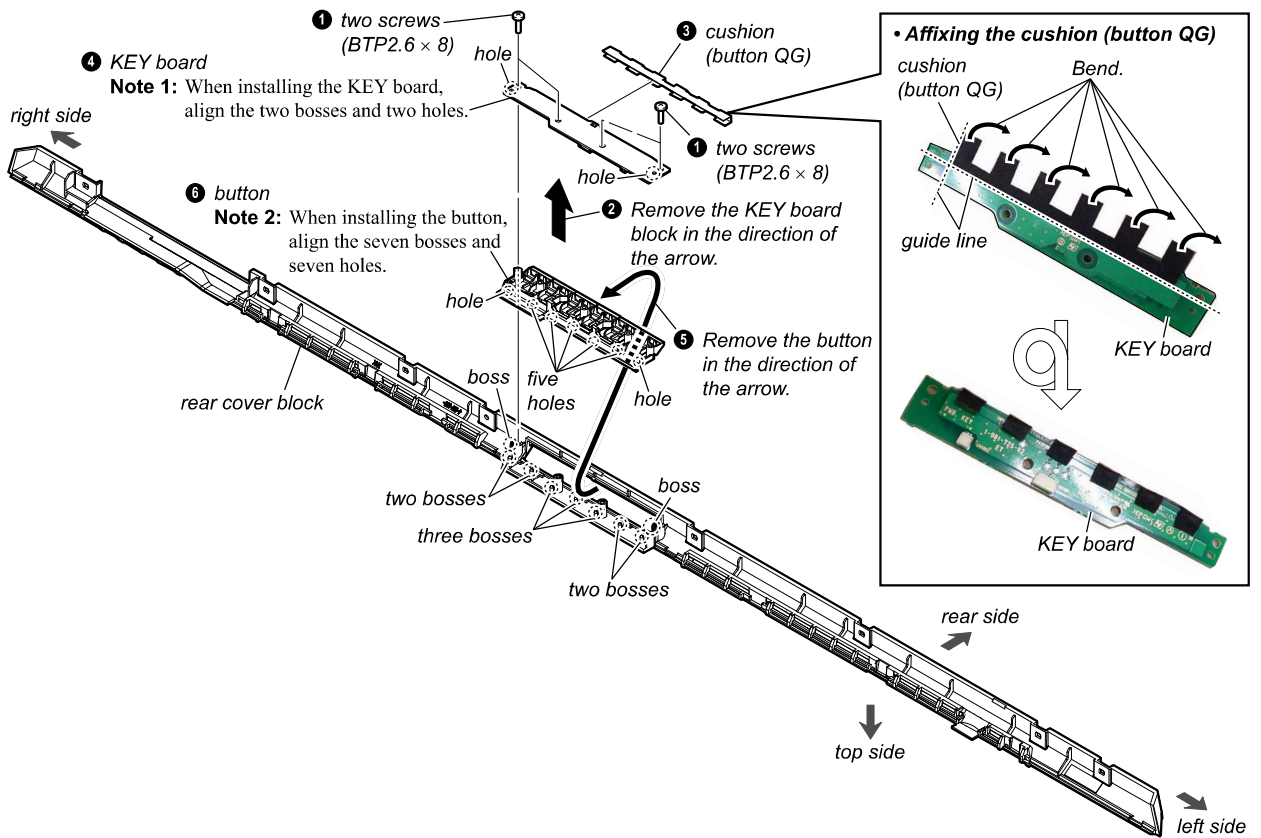


# HT-ST5000

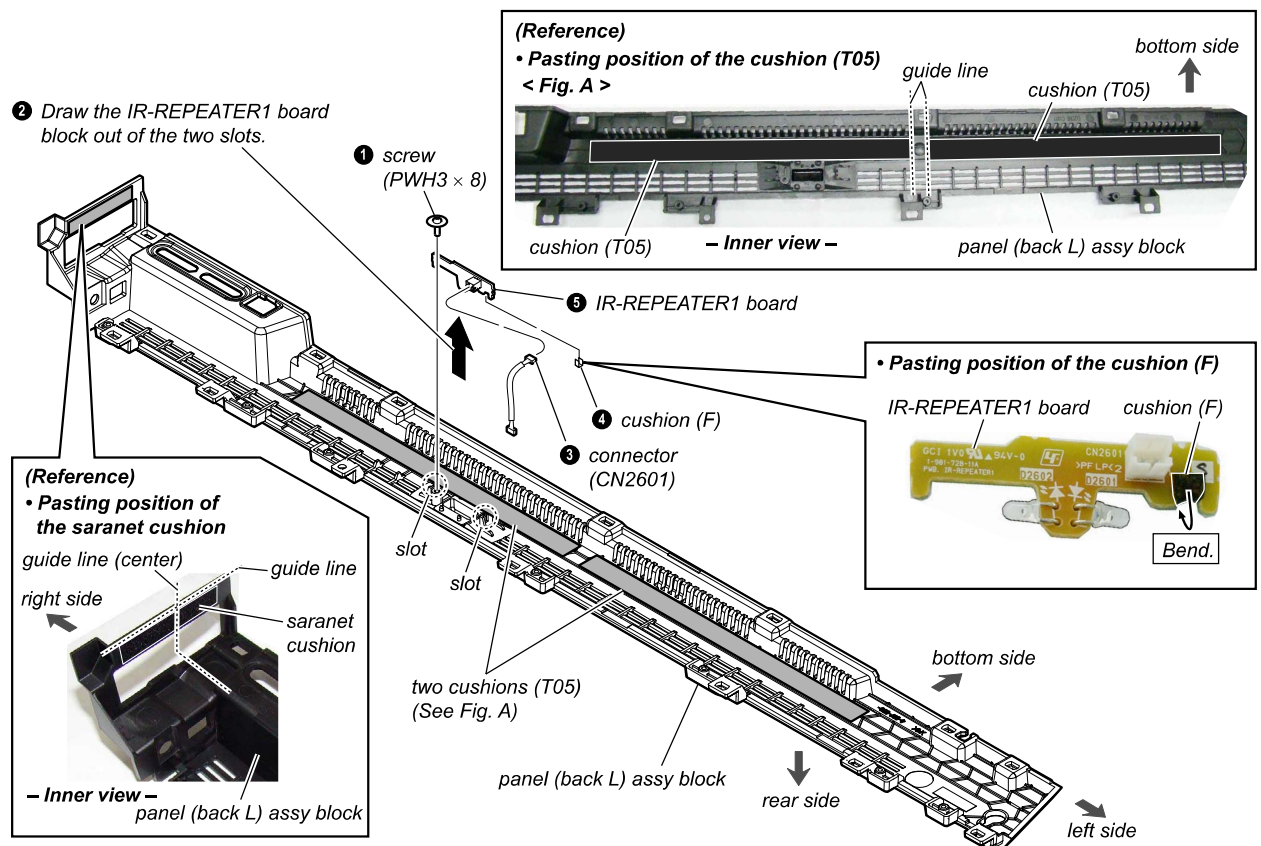
## 2-5. BAR WIRED BOARD



2-6. KEY BOARD, BUTTON



2-7. IR-REPEATER1 BOARD





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## 2-8. BRACKET (BOTTOM) BLOCK

**• Note about installing the bracket (arm-A) block < Fig. C >**

**Note 1:** When installing the bracket (arm-A) block, align the two ribs and two holes.  
(Draw out the cable before installation)

rib

hole

right side

left side

rib

hole

right side

left side

Draw the CHUKEI-WIRE board cable out in the direction of the arrow.

**• Note about installing the bracket (arm-B) block < Fig. D >**

**Note 3:** When installing the bracket (arm-B) block, align the two ribs and two holes.

rib

hole

right side

left side

rib

hole

right side

left side

**• Notes when assembling or disassembling the bracket (bottom) block < Fig. B >**

**Disassembling:** Removing the thirteen screws at the ▲ mark screws is not necessary.

**Assembling:** When installing the bracket (bottom) block, align the three ribs and three holes.

hole

rib

right side

rib

hole

rib

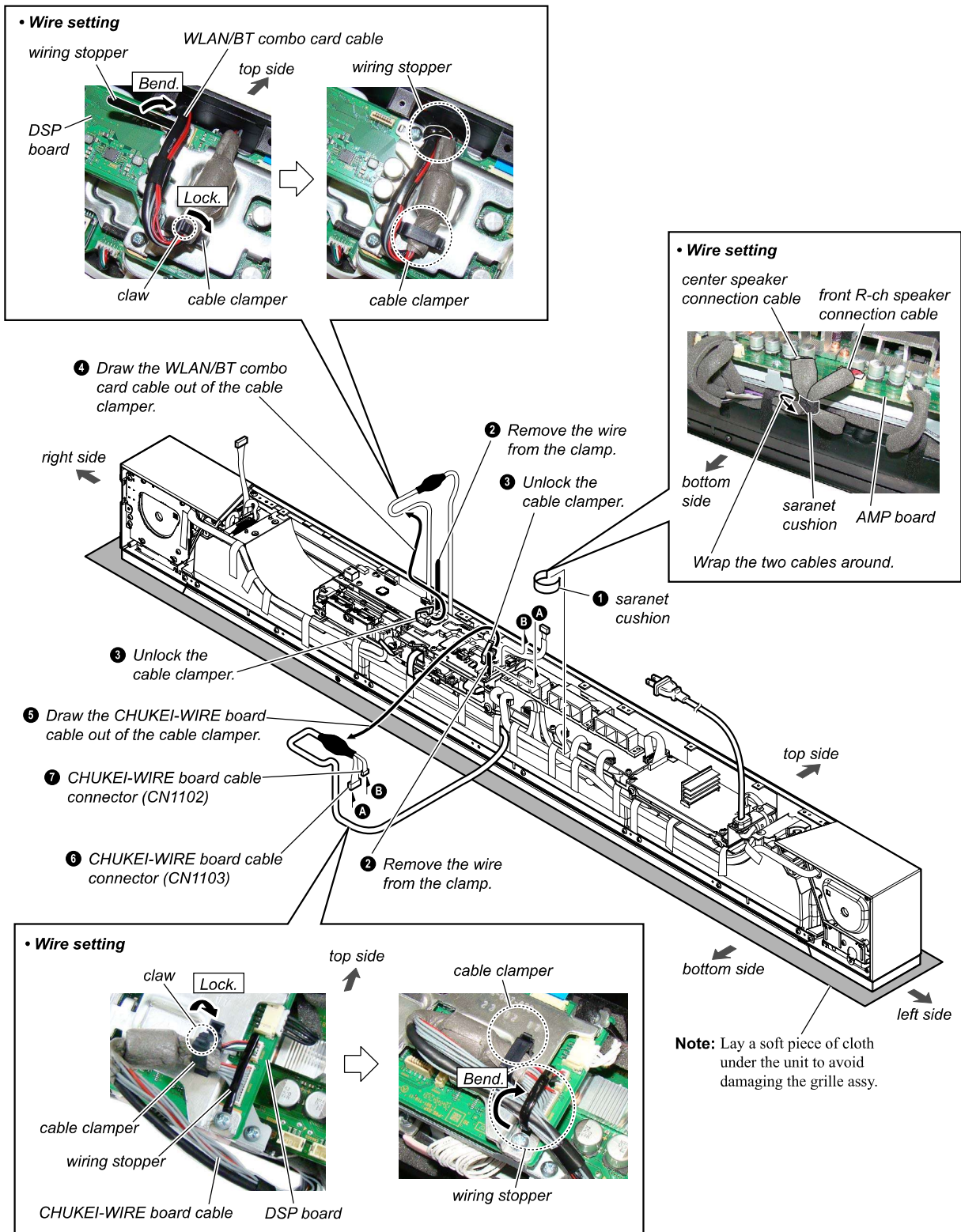
hole

left side

- Bottom view -

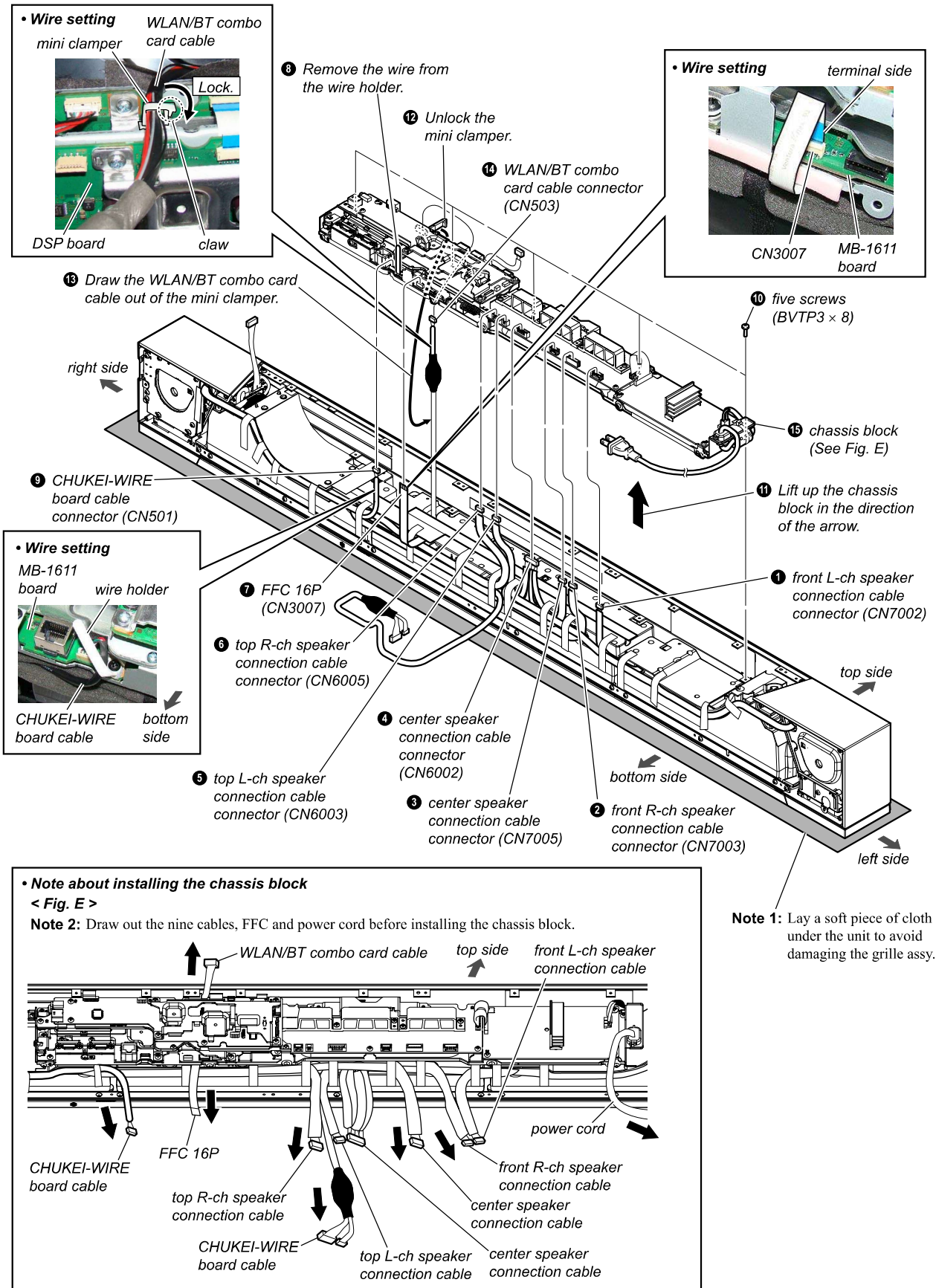
2-9. CHASSIS BLOCK-1

• Continued on 2-10 (page 18).



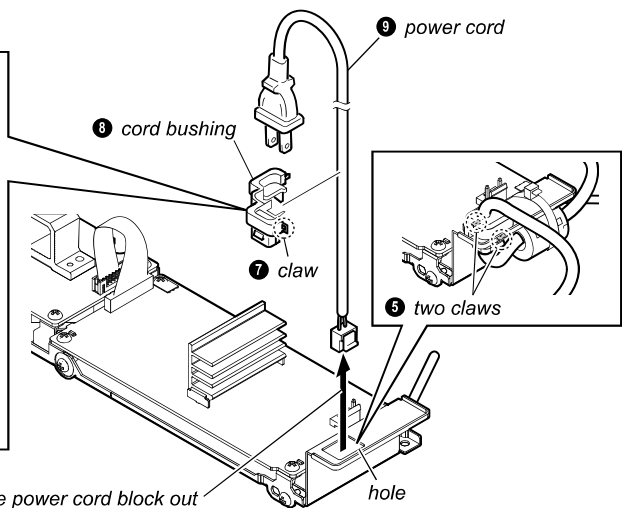
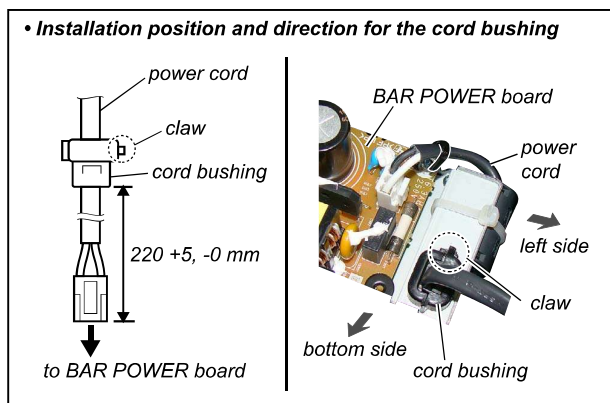
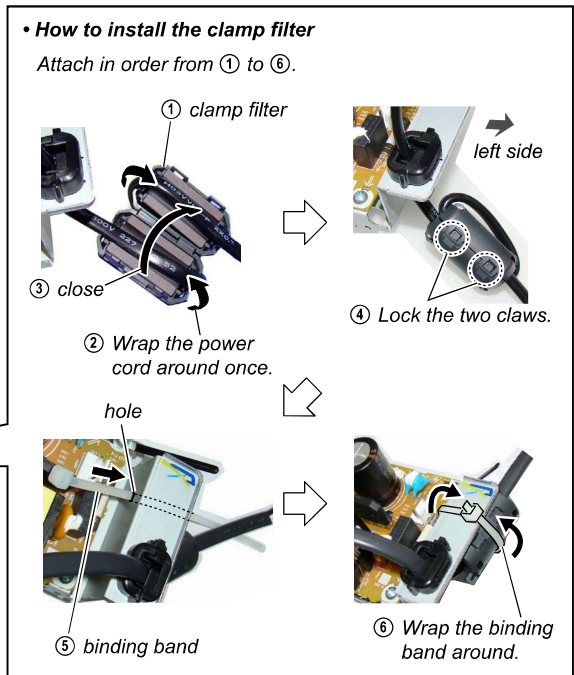
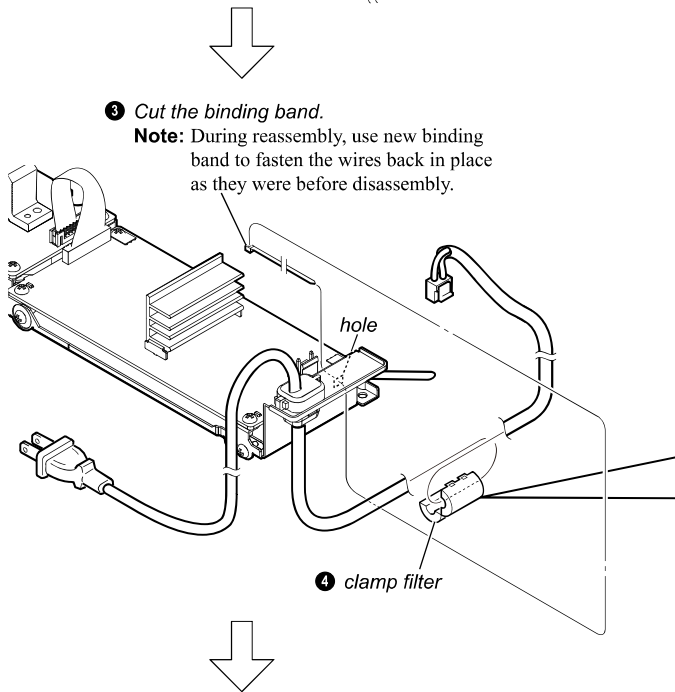
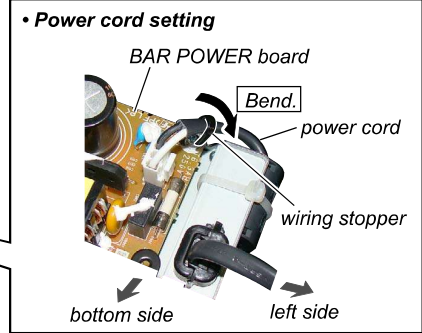
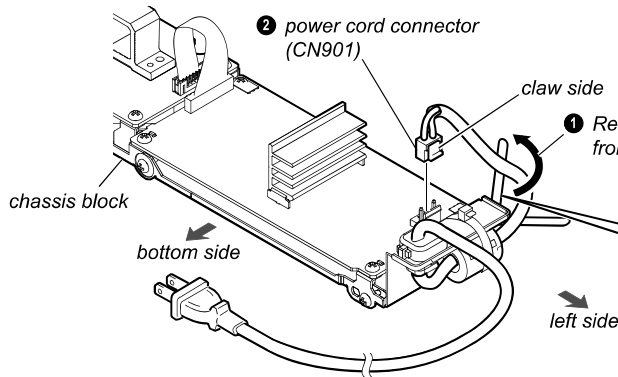
# HT-ST5000

## 2-10. CHASSIS BLOCK-2



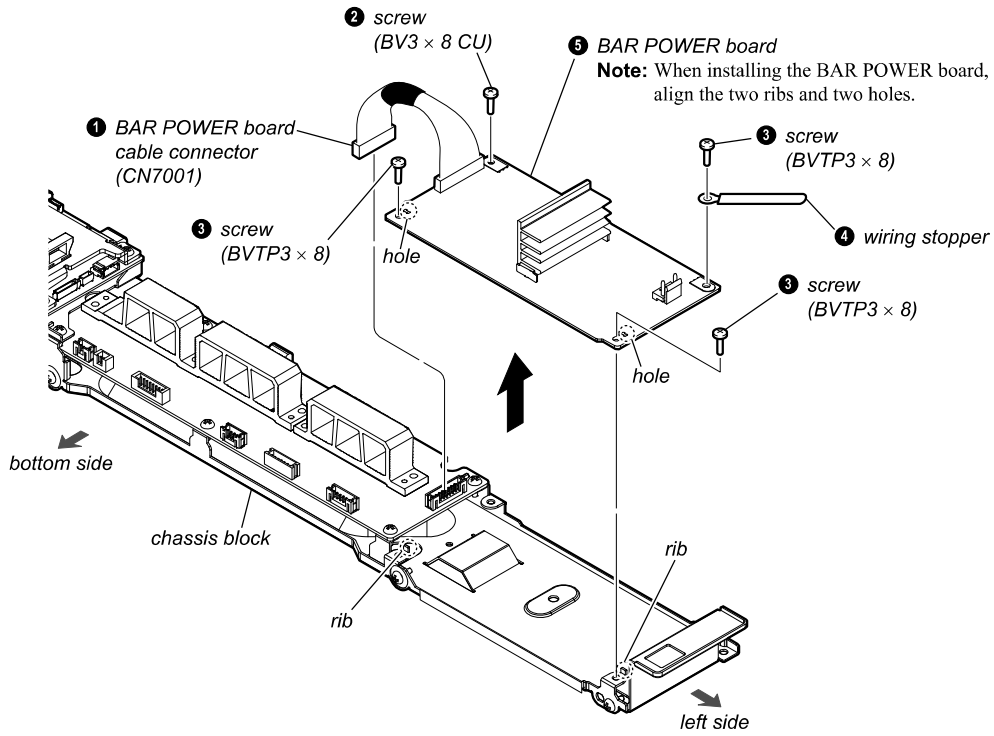


2-11. POWER CORD

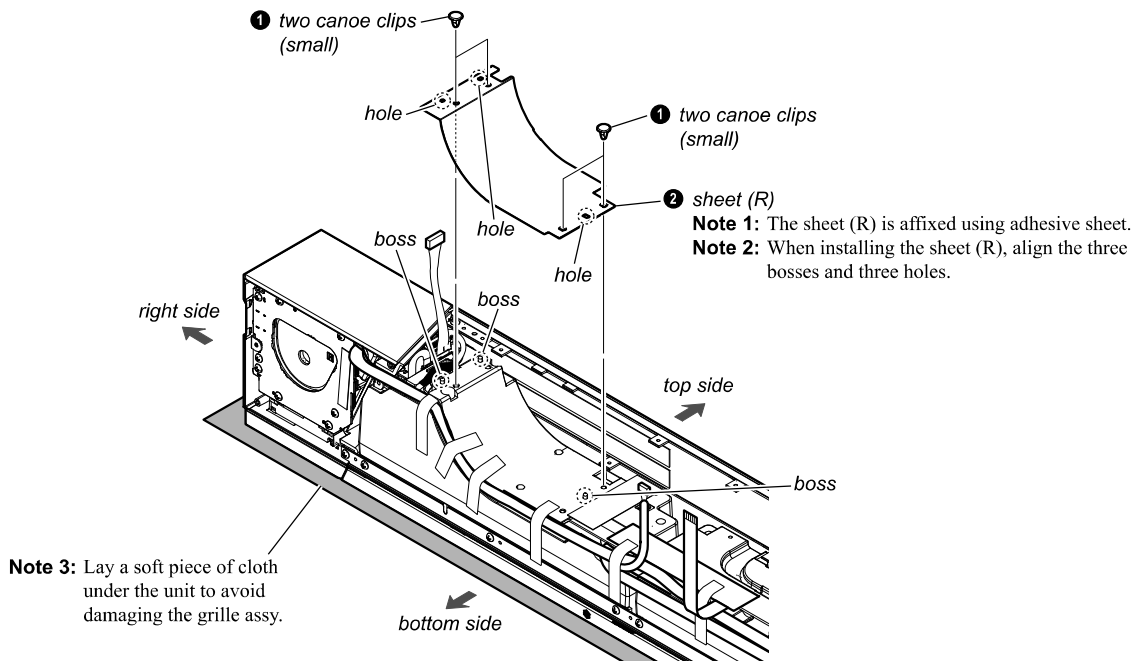


# HT-ST5000

## 2-12. BAR POWER BOARD

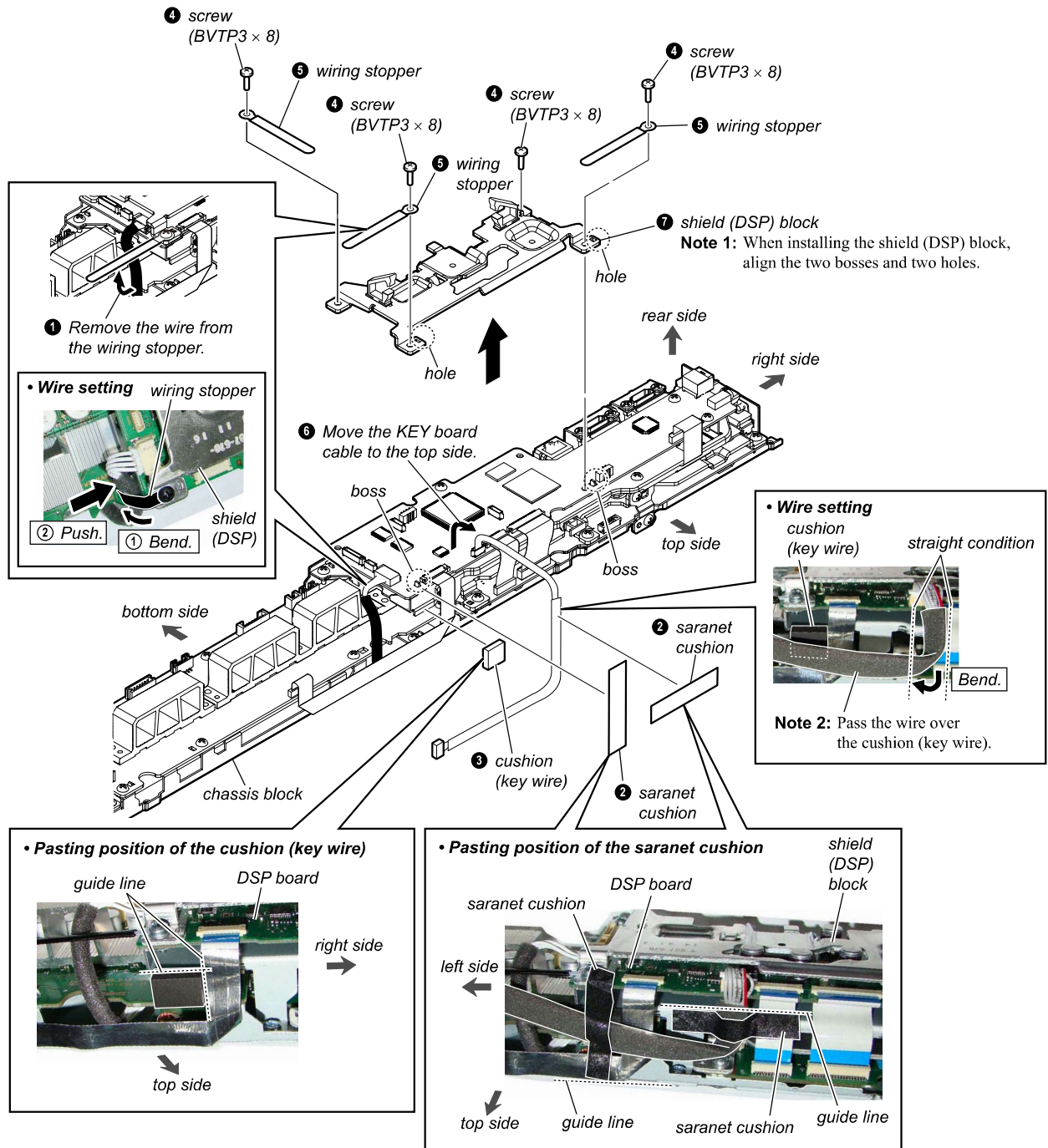


## 2-13. SHEET (R)



2-14. DSP BOARD-1

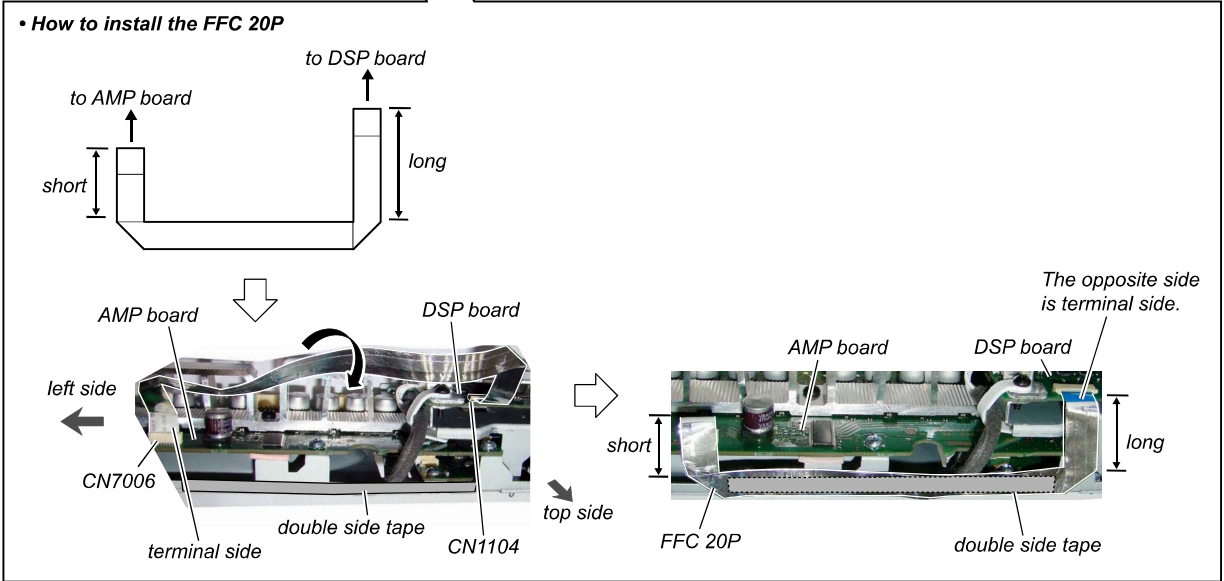
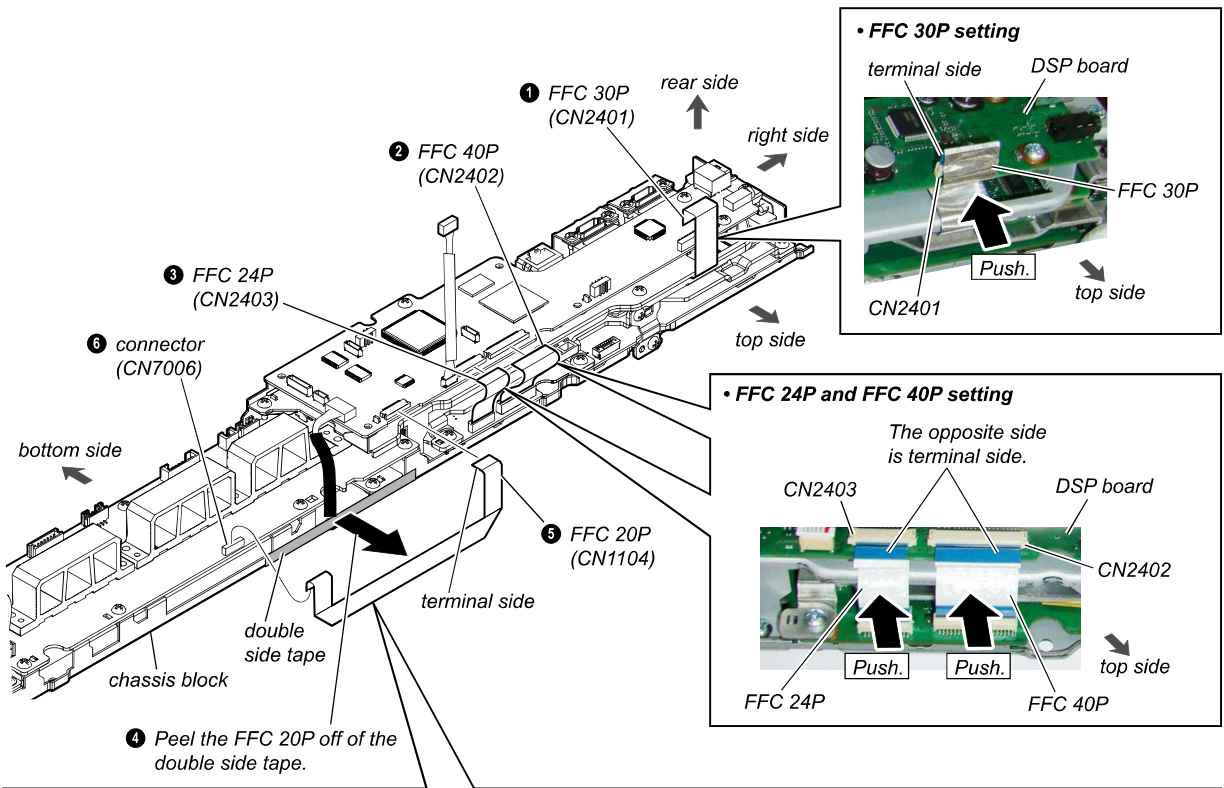
• Continued on 2-15 (page 22).



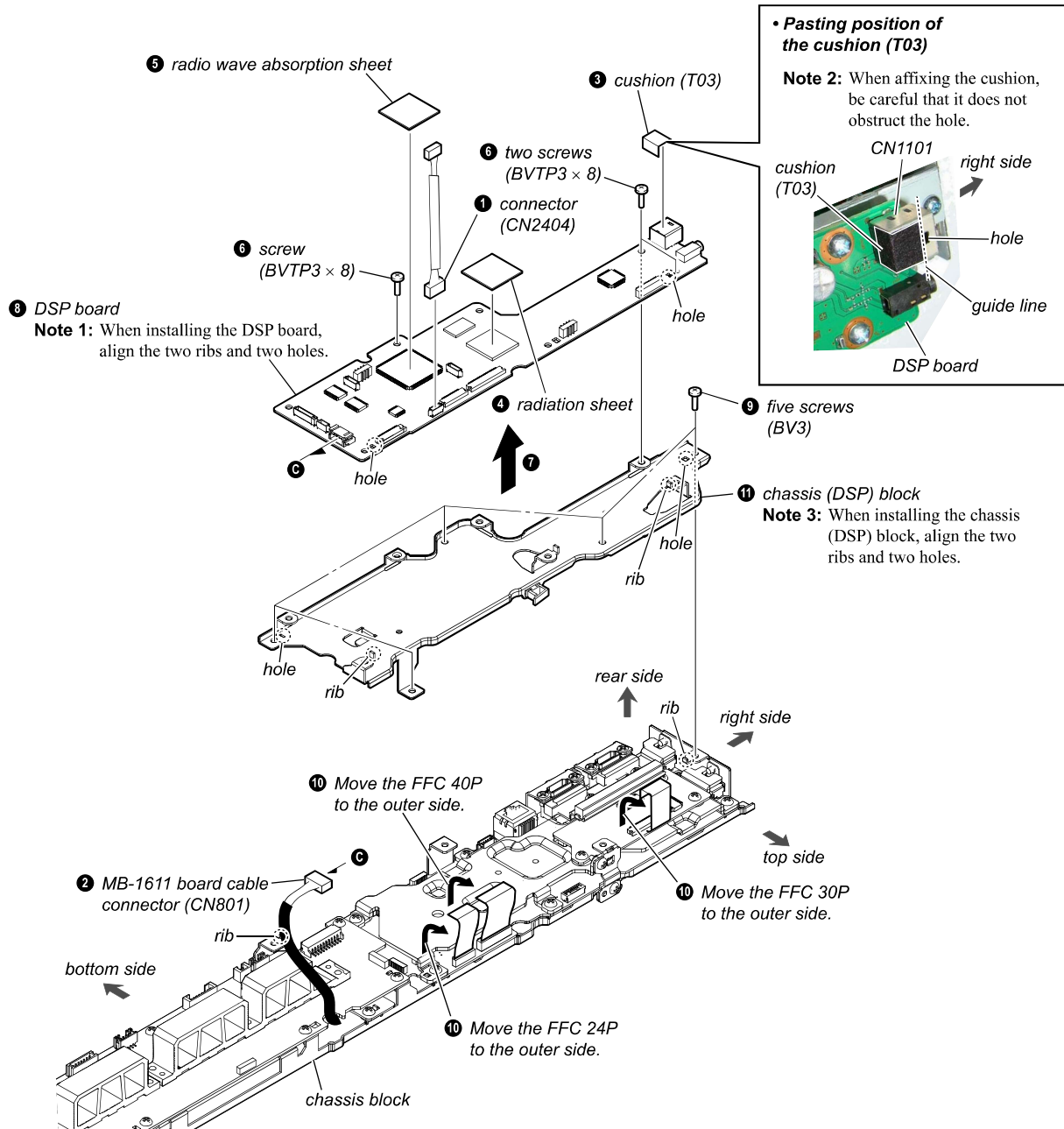
# HT-ST5000

## 2-15. DSP BOARD-2

• Continued on 2-16 (page 23).



2-16. DSP BOARD-3, CHASSIS (DSP) BLOCK





# HT-ST5000

## 2-17. AMP BOARD

### ⑦ heat sink (AMP-A)

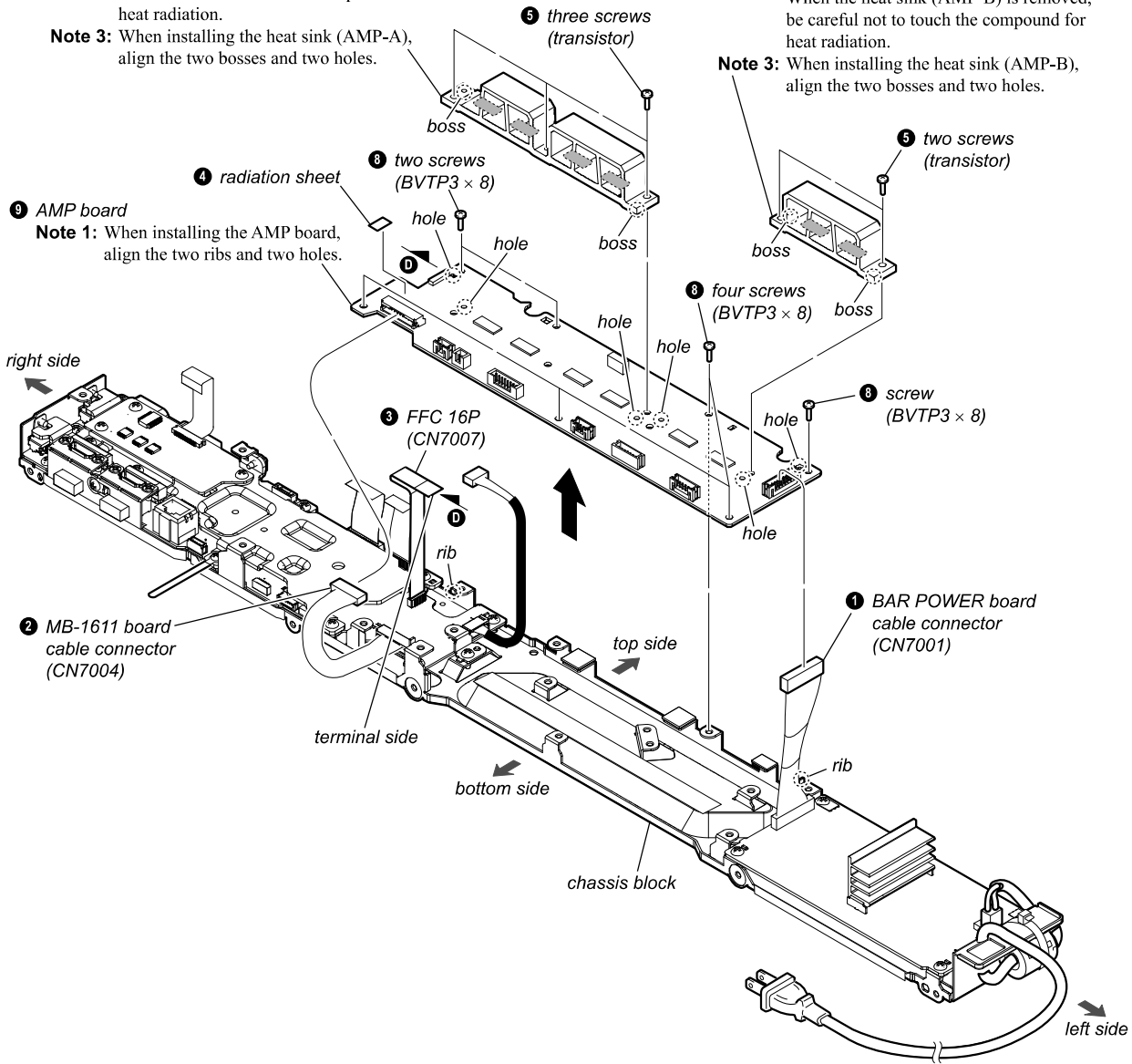
**Note 2:** The compound for heat radiation is applied to the touching portion between the IC on the AMP board and the heat sink (AMP-A). When the heat sink (AMP-A) is removed, be careful not to touch the compound for heat radiation.

**Note 3:** When installing the heat sink (AMP-A), align the two bosses and two holes.

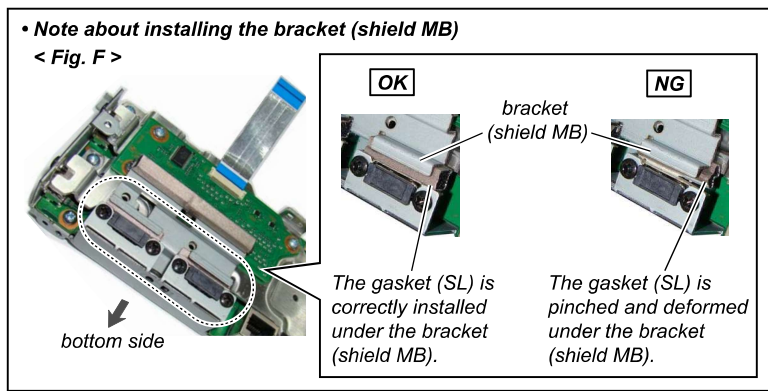
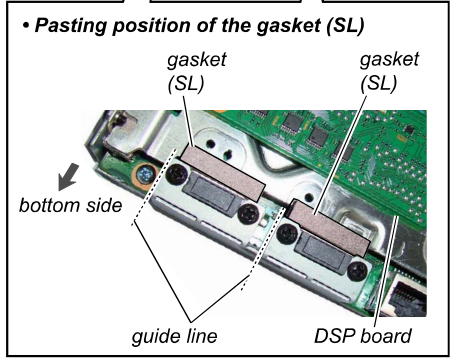
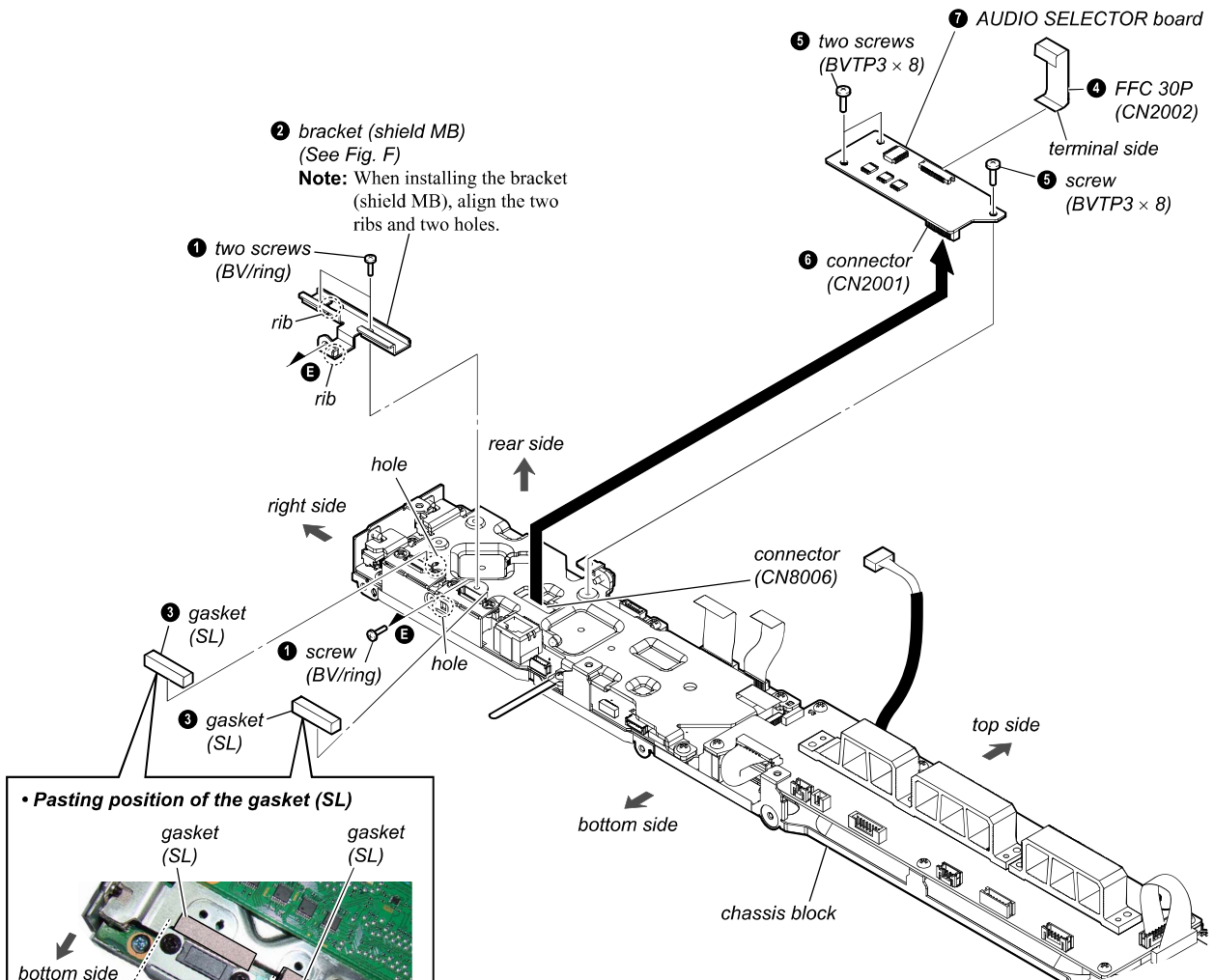
### ⑥ heat sink (AMP-B)

**Note 2:** The compound for heat radiation is applied to the touching portion between the IC on the AMP board and the heat sink (AMP-B). When the heat sink (AMP-B) is removed, be careful not to touch the compound for heat radiation.

**Note 3:** When installing the heat sink (AMP-B), align the two bosses and two holes.



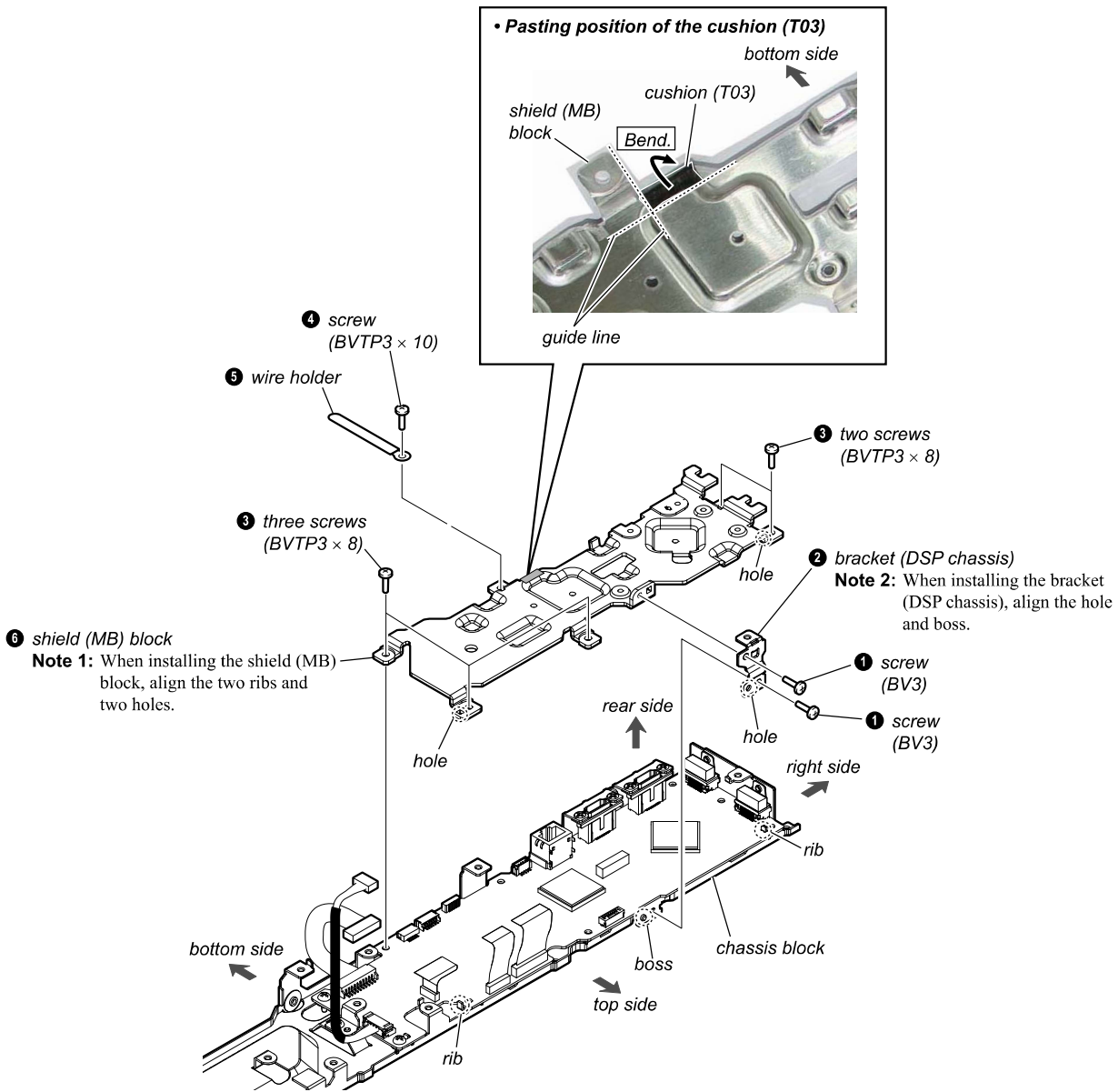
2-18. AUDIO SELECTOR BOARD



# HT-ST5000

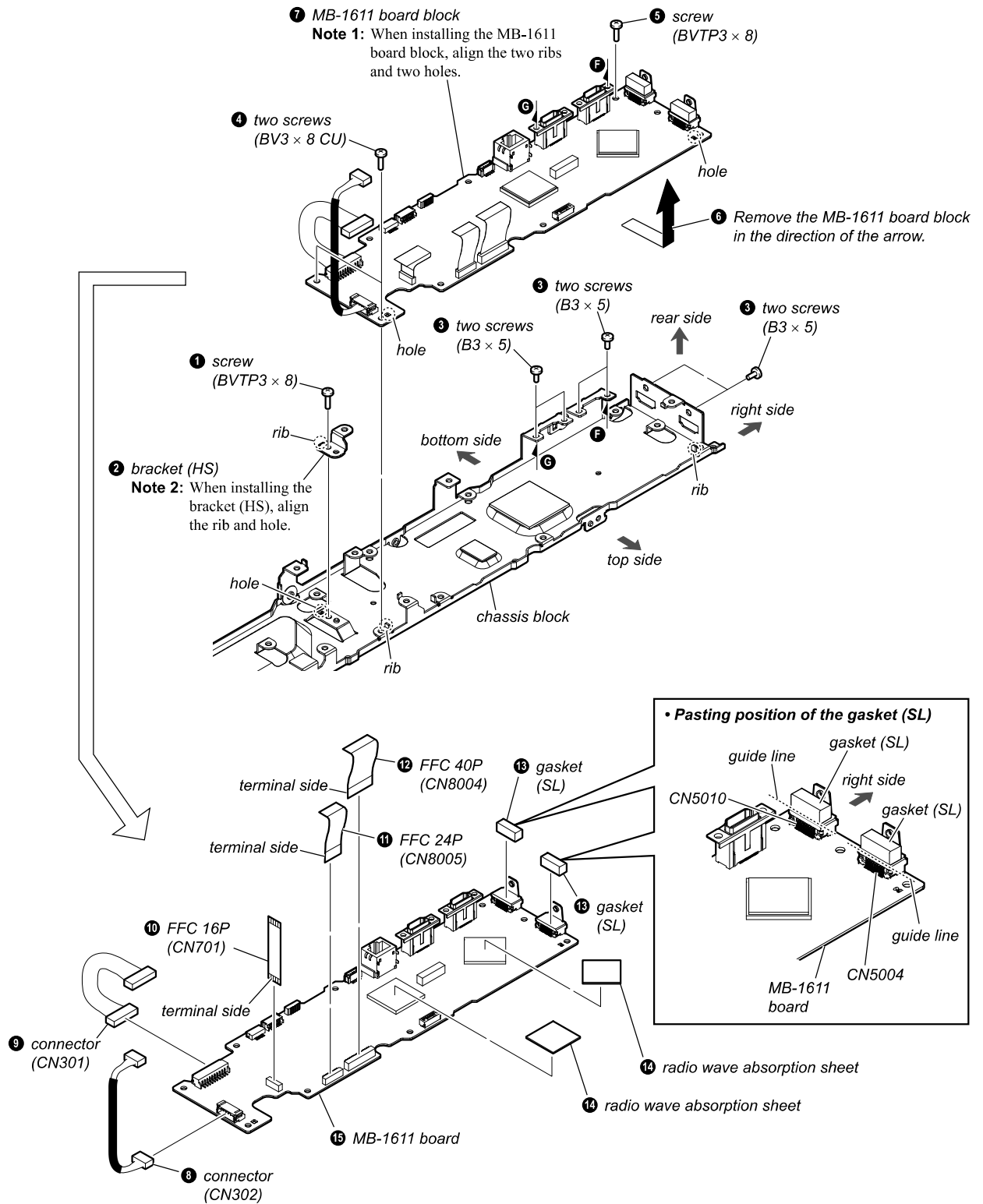
## 2-19. MB-1611 BOARD-1

• Continued on 2-20 (page 27).





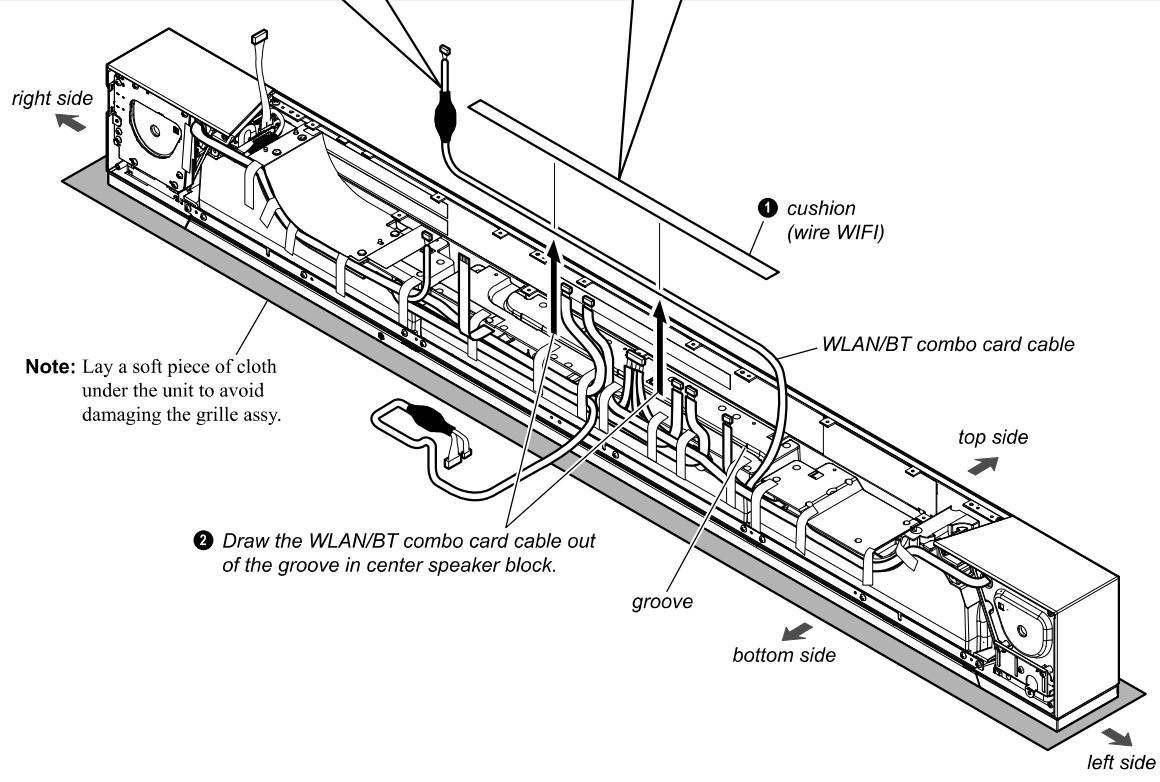
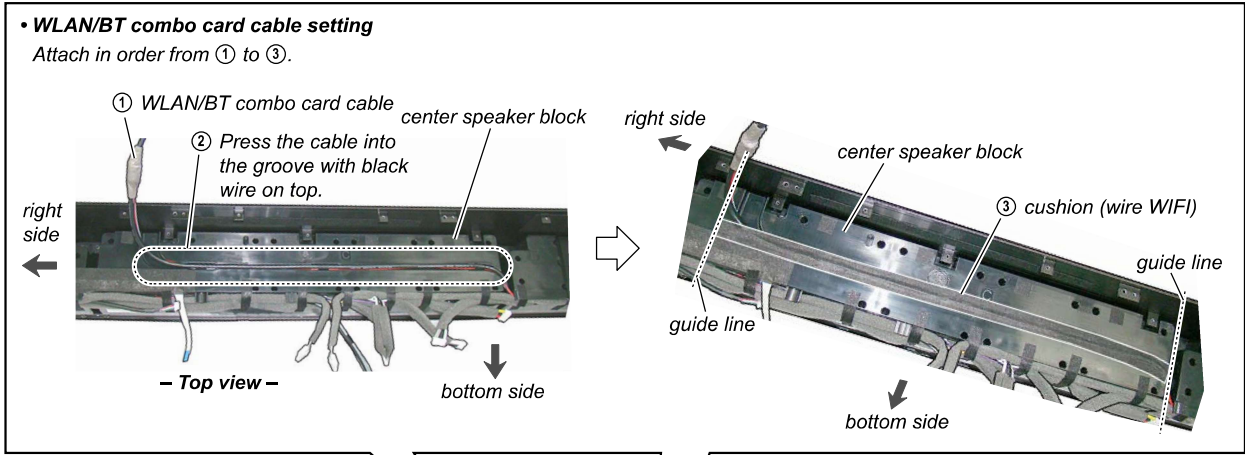
2-20. MB-1611 BOARD-2



# HT-ST5000

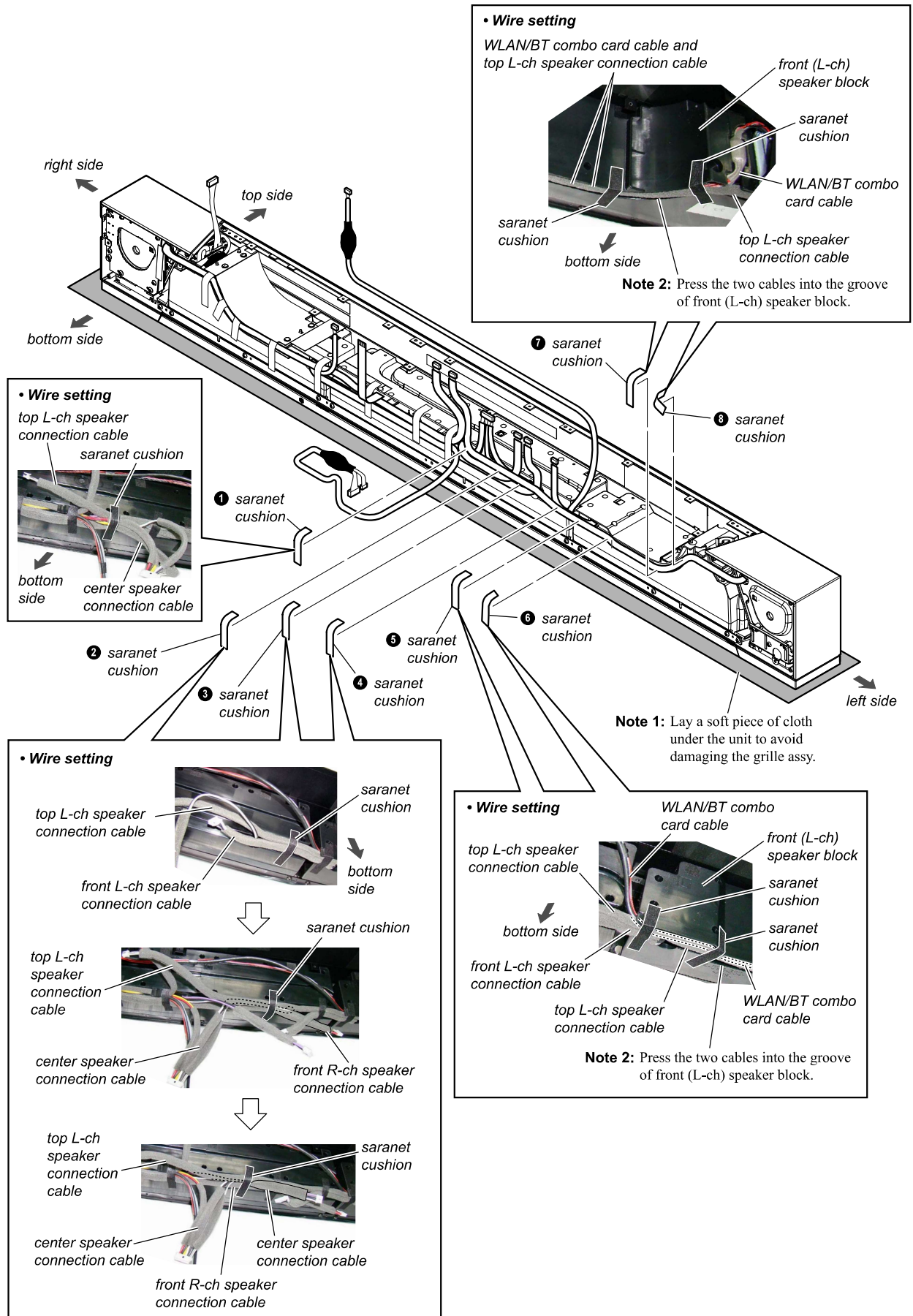
## 2-21. ENABLE (L-CH) BLOCK-1

• Continued on 2-22 (page 29).



2-22. ENABLE (L-CH) BLOCK-2

• Continued on 2-23 (page 30).

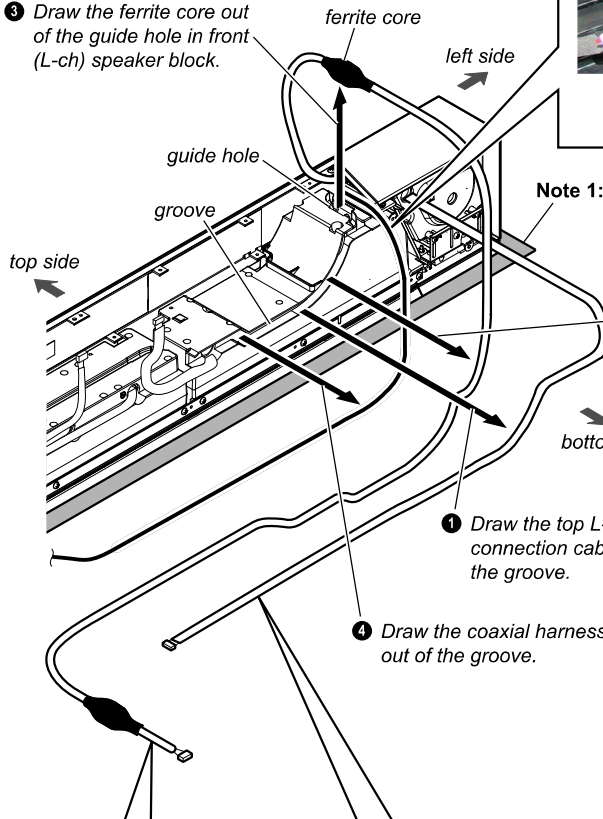


# HT-ST5000

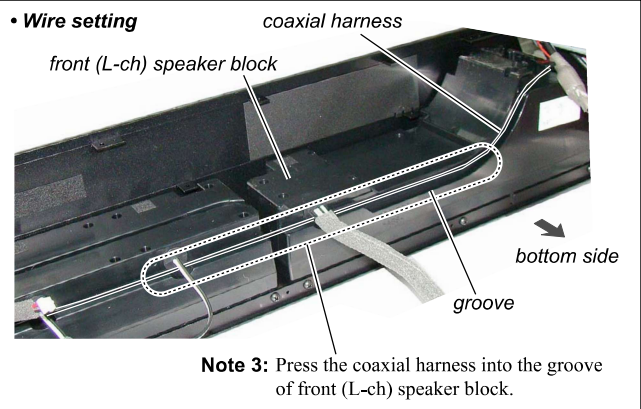
## 2-23. ENABLE (L-CH) BLOCK-3

• Continued on 2-24 (page 31).

③ Draw the ferrite core out of the guide hole in front (L-ch) speaker block.



• Wire setting



**Note 3:** Press the coaxial harness into the groove of front (L-ch) speaker block.

**Note 1:** Lay a soft piece of cloth under the unit to avoid damaging the grille assy.

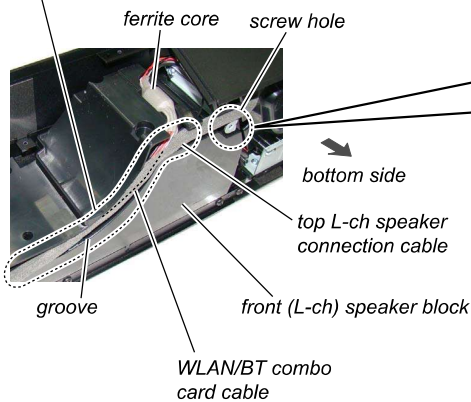
② Draw the WLAN/BT combo card cable out of the groove.

① Draw the top L-ch speaker connection cable out of the groove.

④ Draw the coaxial harness out of the groove.

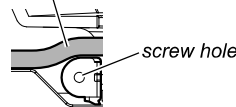
• Wire setting

**Note 2:** Press the two cables into the groove of front (L-ch) speaker block.



**OK**

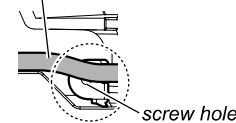
Pass the top L-ch speaker connection cable beside the screw hole.



– Bottom view –

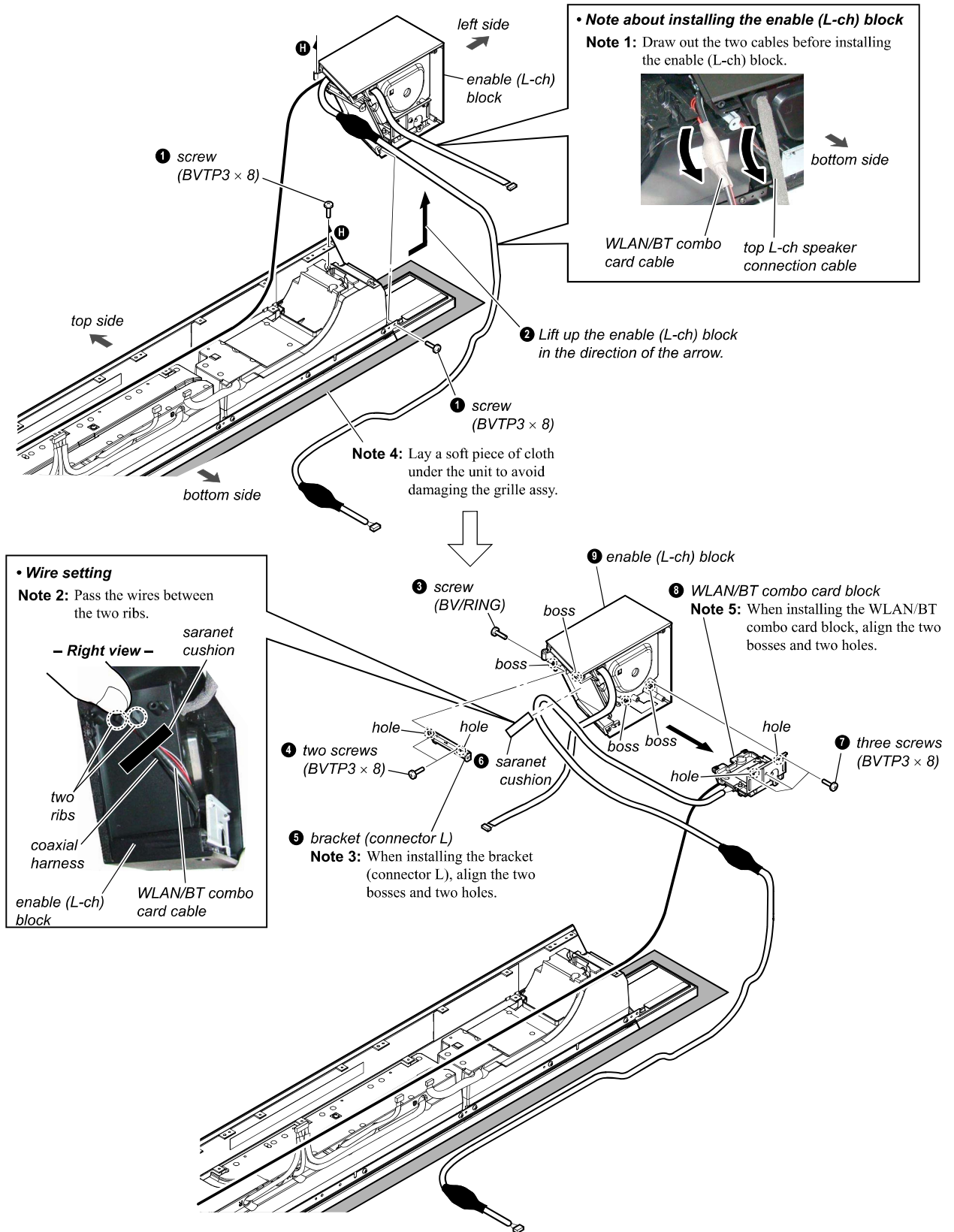
**NG**

The top L-ch speaker connection cable is overlapping the screw hole.



– Bottom view –

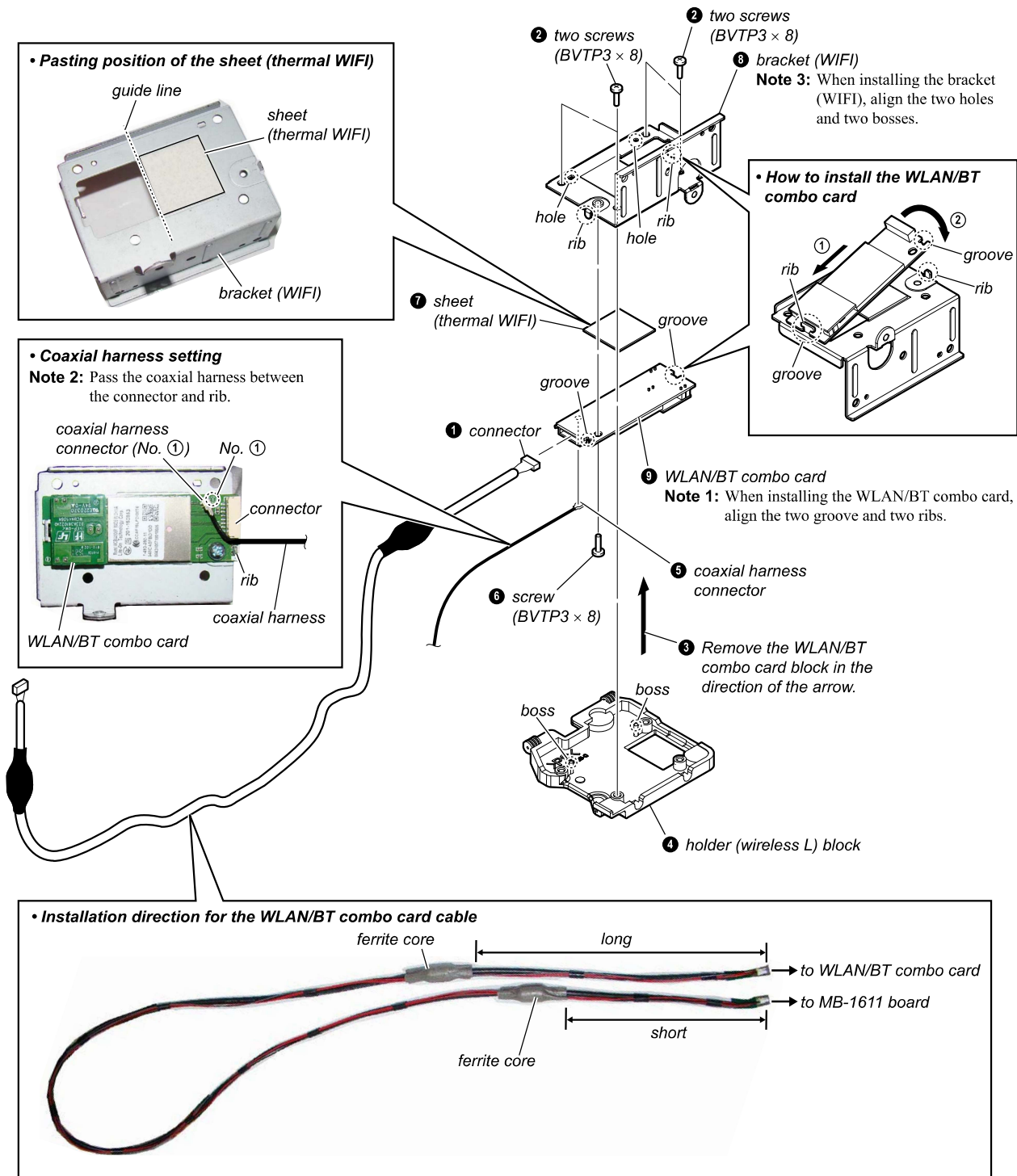
2-24. WLAN/BT COMBO CARD BLOCK, ENABLE (L-CH) BLOCK-4



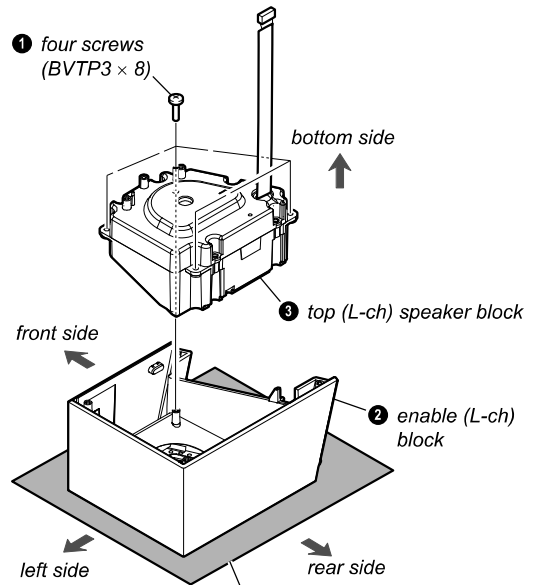
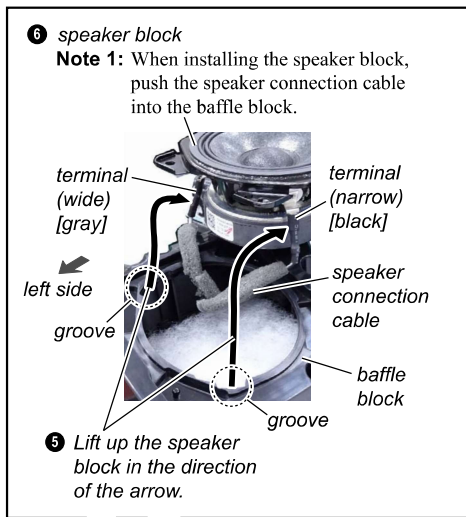


# HT-ST5000

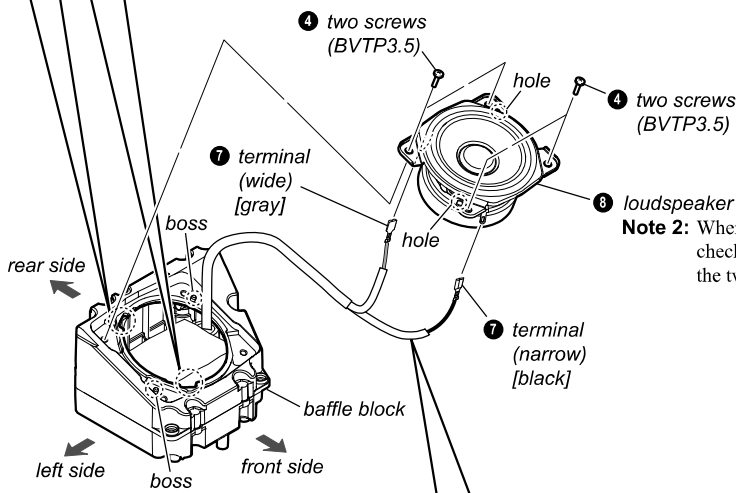
## 2-25. WLAN/BT COMBO CARD



2-26. LOUDSPEAKER (TOP L-CH)

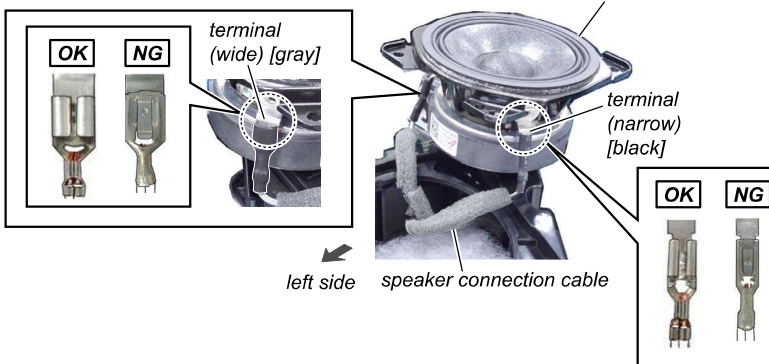


**Note 3:** Lay a soft piece of cloth under the unit to avoid damaging the grille assy.

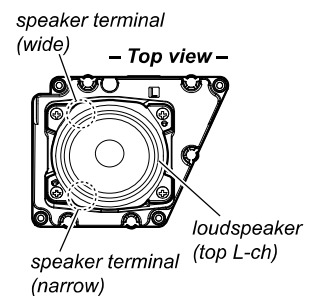


• **Installation direction for the terminals (top L-ch)**

**Note 4:** When connecting the terminals of the speaker connection cable to the loudspeaker, check the direction of the terminals before installing.



• **Installation direction for the loudspeaker (top L-ch)**



# HT-ST5000

## 2-27. ENABLE (R-CH) BLOCK-1

• Continued on 2-28 (page 35).

**• Wire setting**  
 Attach in order from ① to ⑨.

① Press the four cables and coaxial harness into the groove.

② saranet cushion

③ Move the CHUKEI-WIRE board cable to the side.

④ Press the four cables and coaxial harness into the groove.

⑤ saranet cushion

⑥ Press the five cables and coaxial harness into the groove.

⑦ Press the two cables into the groove.

⑧ saranet cushion

⑨ saranet cushion

**Note:** Lay a soft piece of cloth under the unit to avoid damaging the grille assy.

**• Pasting position of the saranet cushion**  
 < Fig. G >



2-28. ENABLE (R-CH) BLOCK-2

• Continued on 2-29 (page 36).

**• Wire setting**

**Note 2:** Press the cable into the groove of front (R-ch) speaker block.

**• Wire setting**

**Note 2:** Press the cable into the groove of front (R-ch) speaker block.

**2** Draw the CHUKEI-WIRE board cable out of the groove.

**4** Draw the ferrite core out of the guide hole in front (R-ch) speaker block.

**1** Draw the top R-ch speaker connection cable out of the groove.

**3** Draw the CHUKEI-WIRE board cable out of the groove.

**5** Draw the coaxial harness out of the groove.

**• Wire setting**

**Note 2:** Press the cable into the groove of front (R-ch) speaker block.

**1** Lay a soft piece of cloth under the unit to avoid damaging the grille assy.

**OK**

Pass the top R-ch speaker connection cable beside the screw hole.

– Bottom view –

**NG**

The top R-ch speaker connection cable is overlapping the screw hole.

– Bottom view –

**• Wire setting**

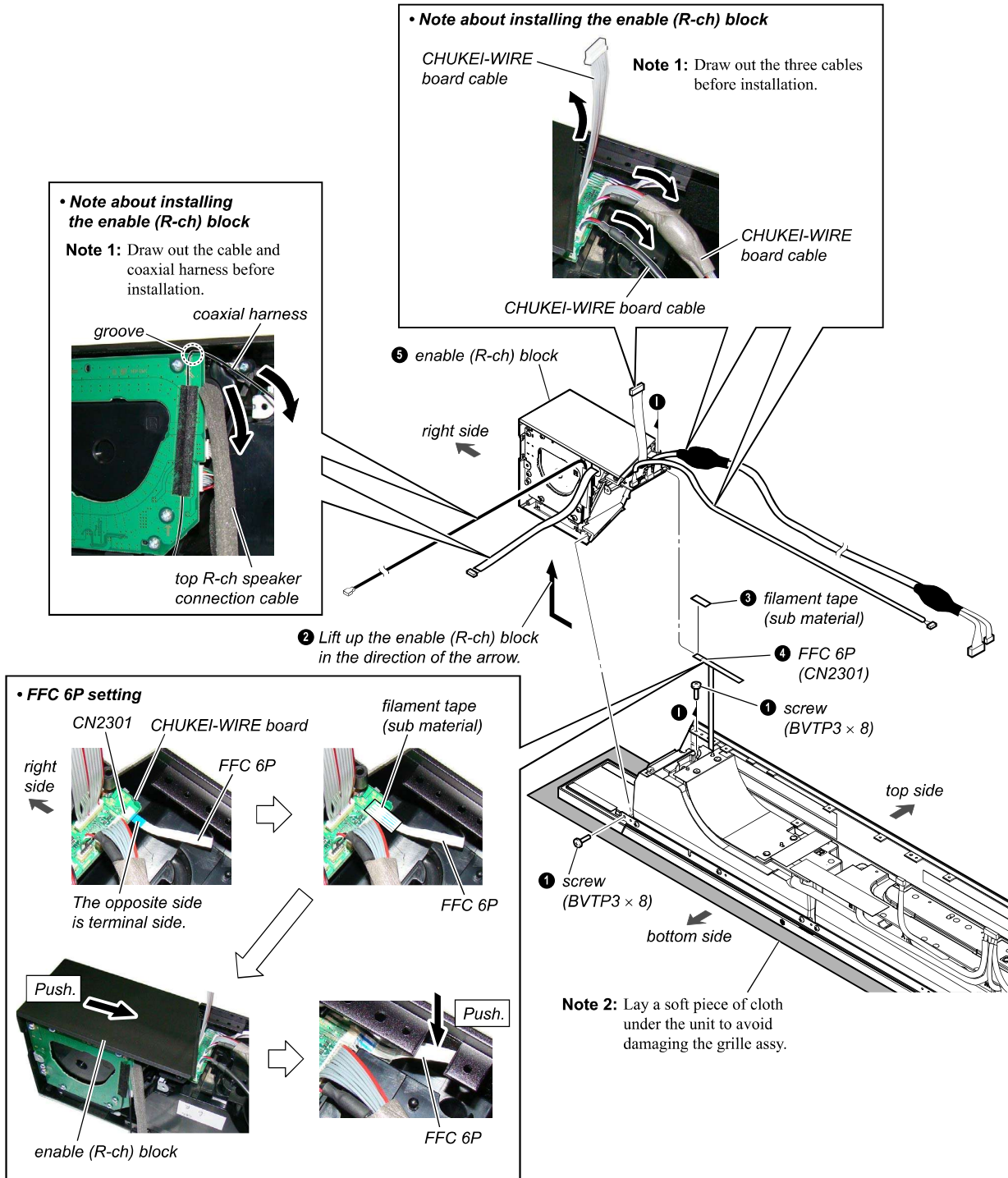
**Note 2:** Press the cable into the groove of front (R-ch) speaker block.

**• Wire setting**

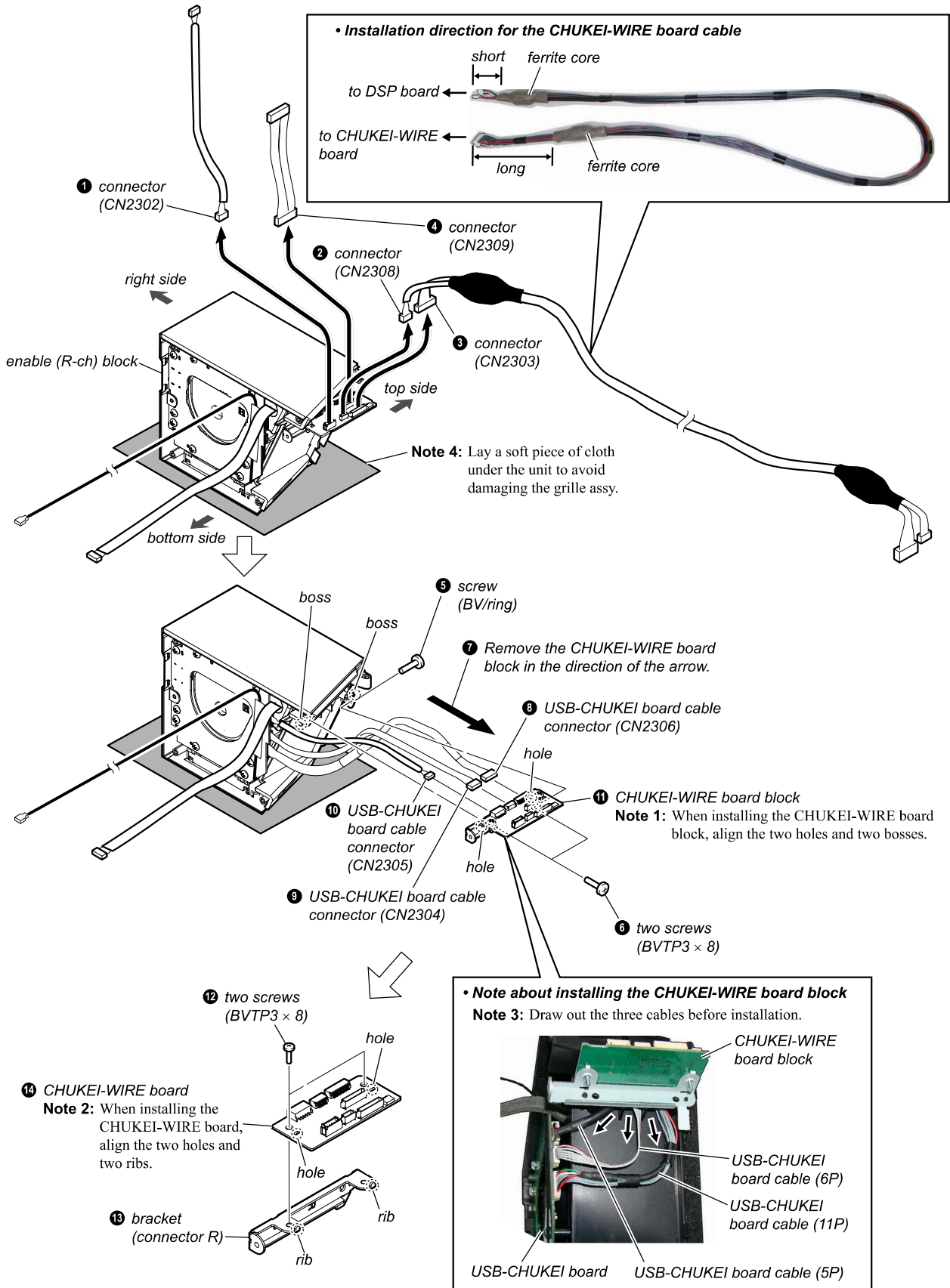
**Note 3:** Press the coaxial harness into the groove of front (R-ch) speaker block.

# HT-ST5000

## 2-29. ENABLE (R-CH) BLOCK-3

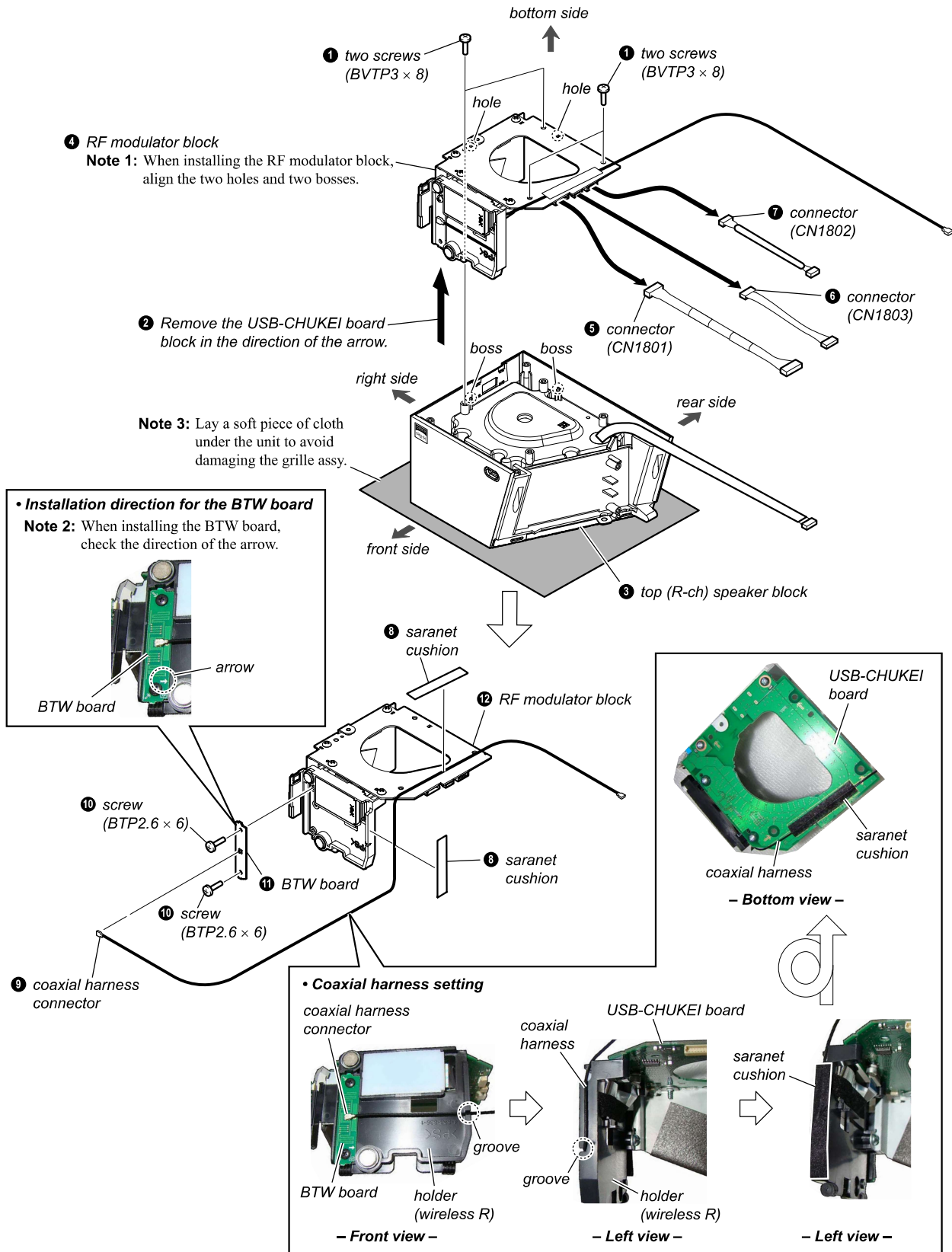


2-30. CHUKEI-WIRE BOARD



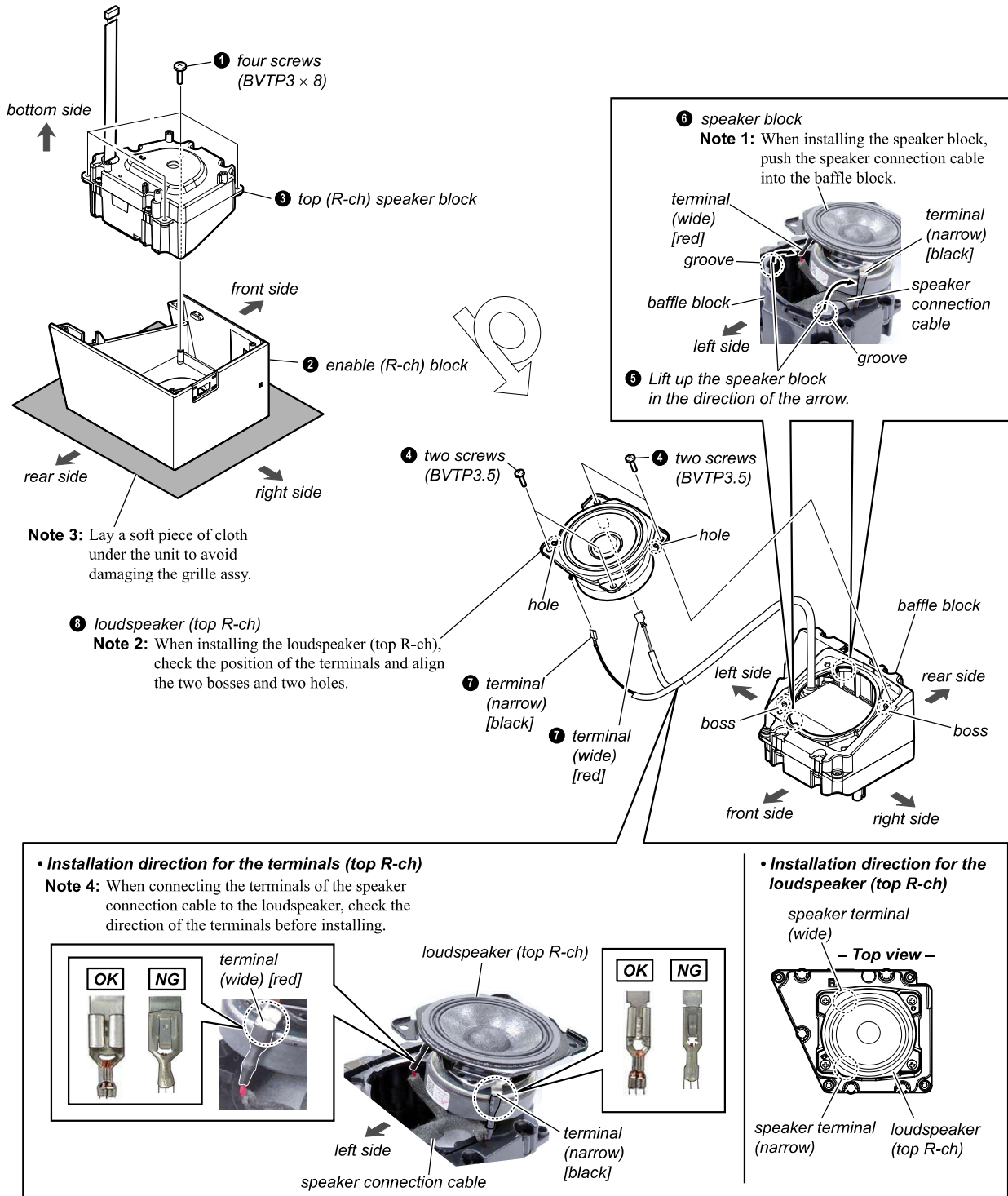
# HT-ST5000

## 2-31. BTW BOARD, RF MODULATOR BLOCK



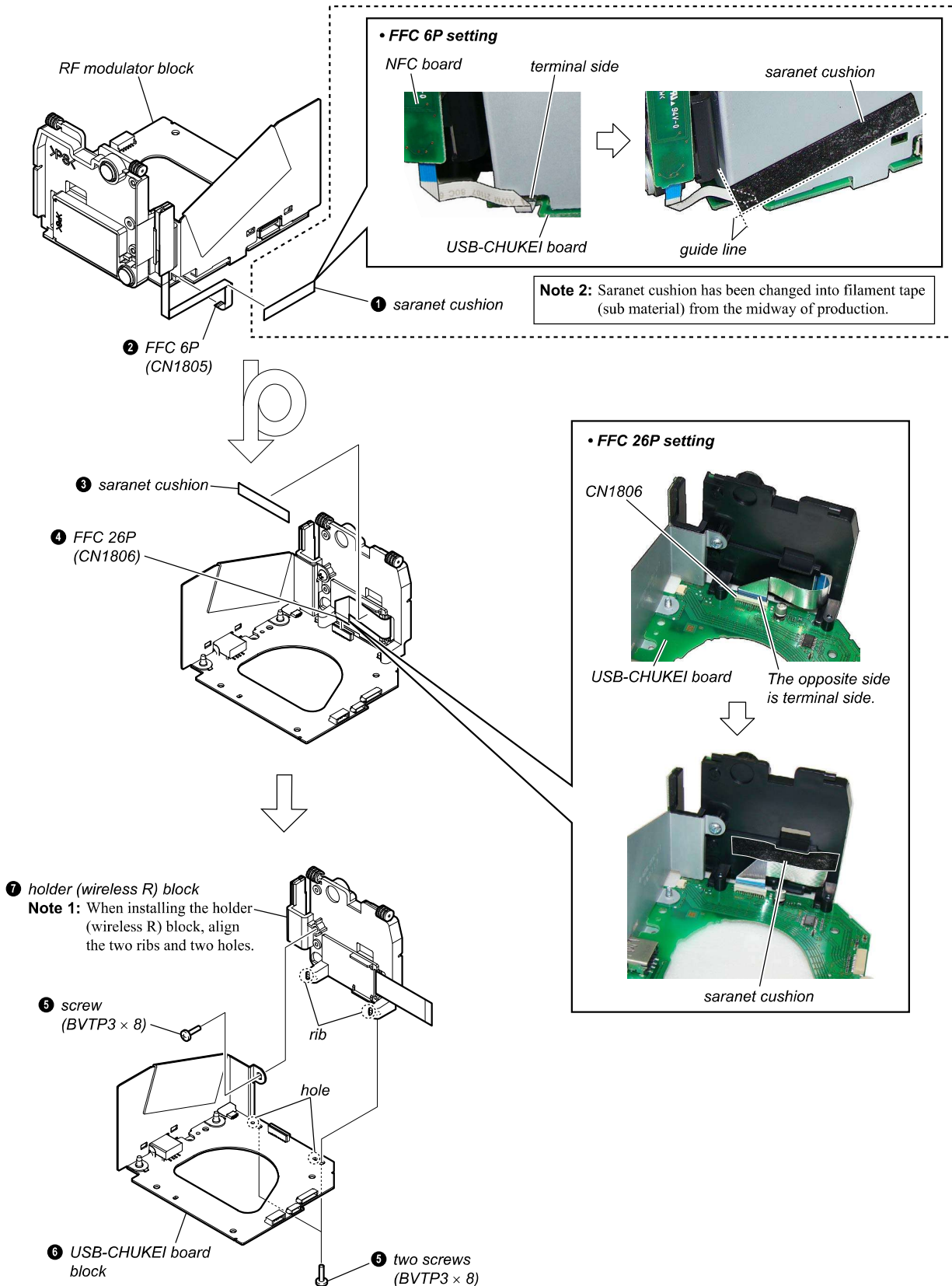


2-32. LOUDSPEAKER (TOP R-CH)

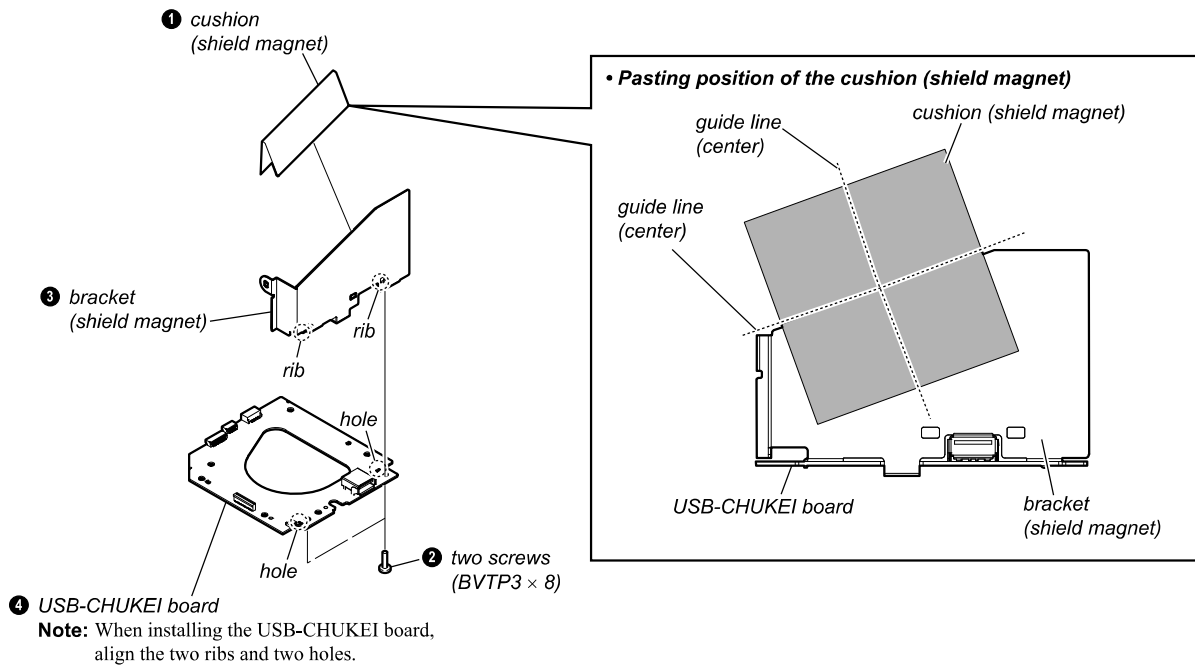


# HT-ST5000

## 2-33. USB-CHUKEI BOARD BLOCK, HOLDER (WIRELESS R) BLOCK

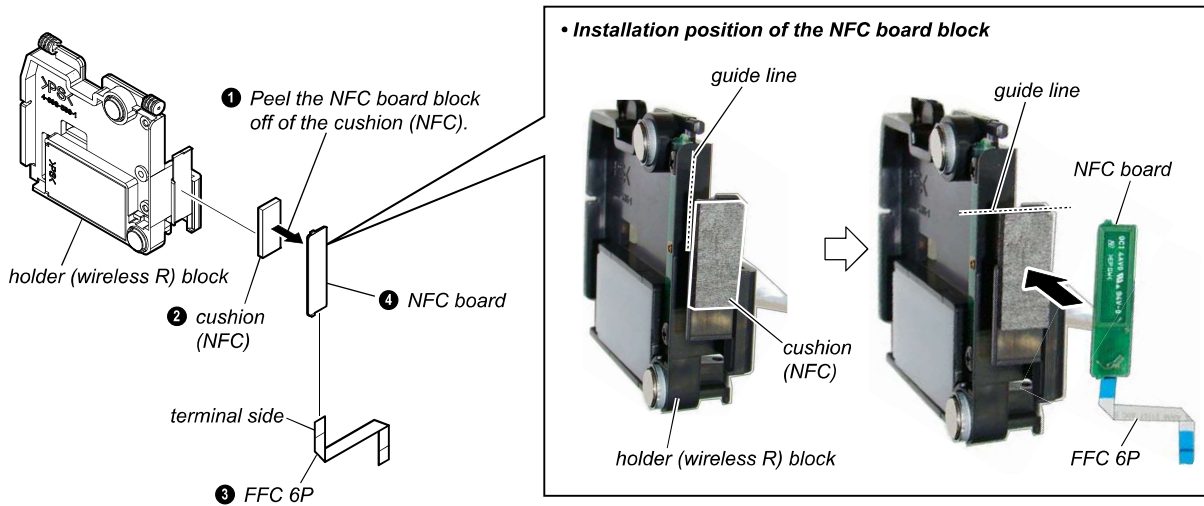


### 2-34. USB-CHUKEI BOARD



### 2-35. NFC BOARD

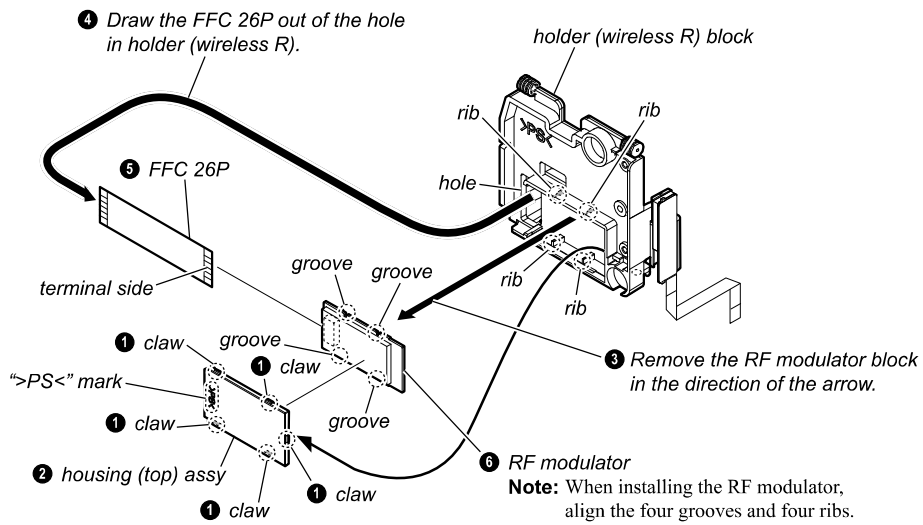
**Note:** When the NFC board is replaced, refer to “NFC CONNECTION CHECKING METHOD” on page 6.



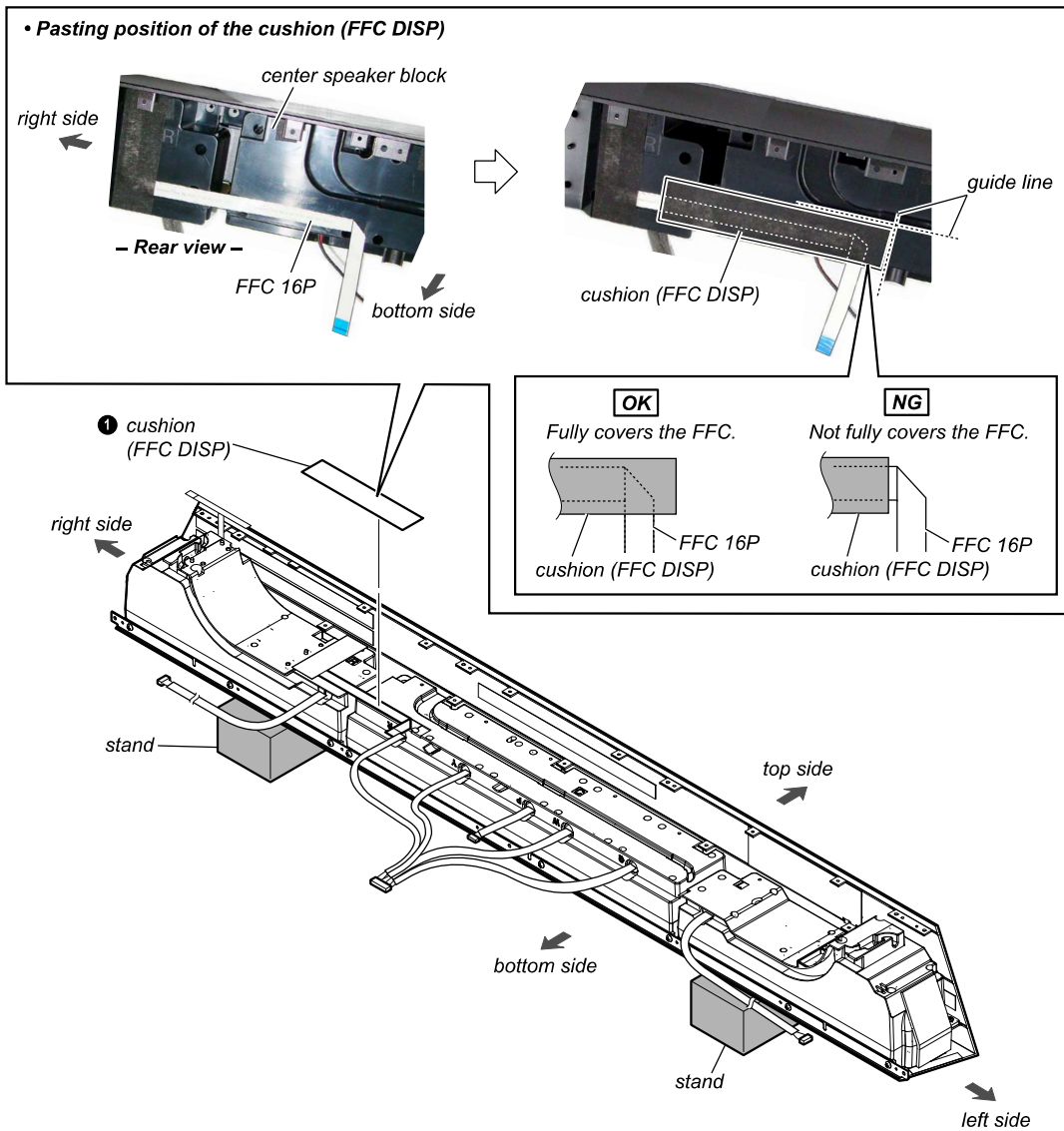


# HT-ST5000

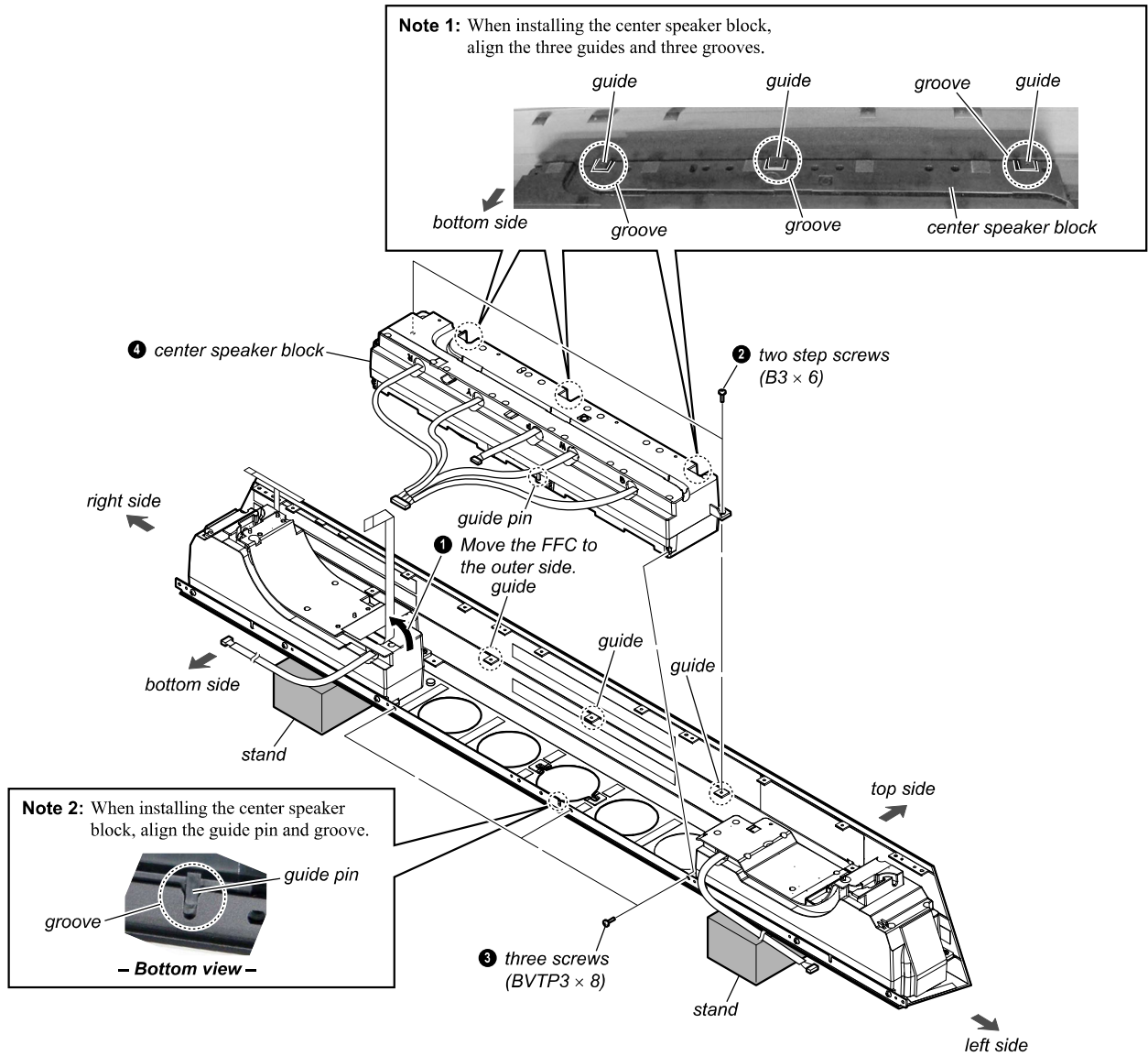
## 2-36. RF MODULATOR



## 2-37. CUSHION (FFC DISP)

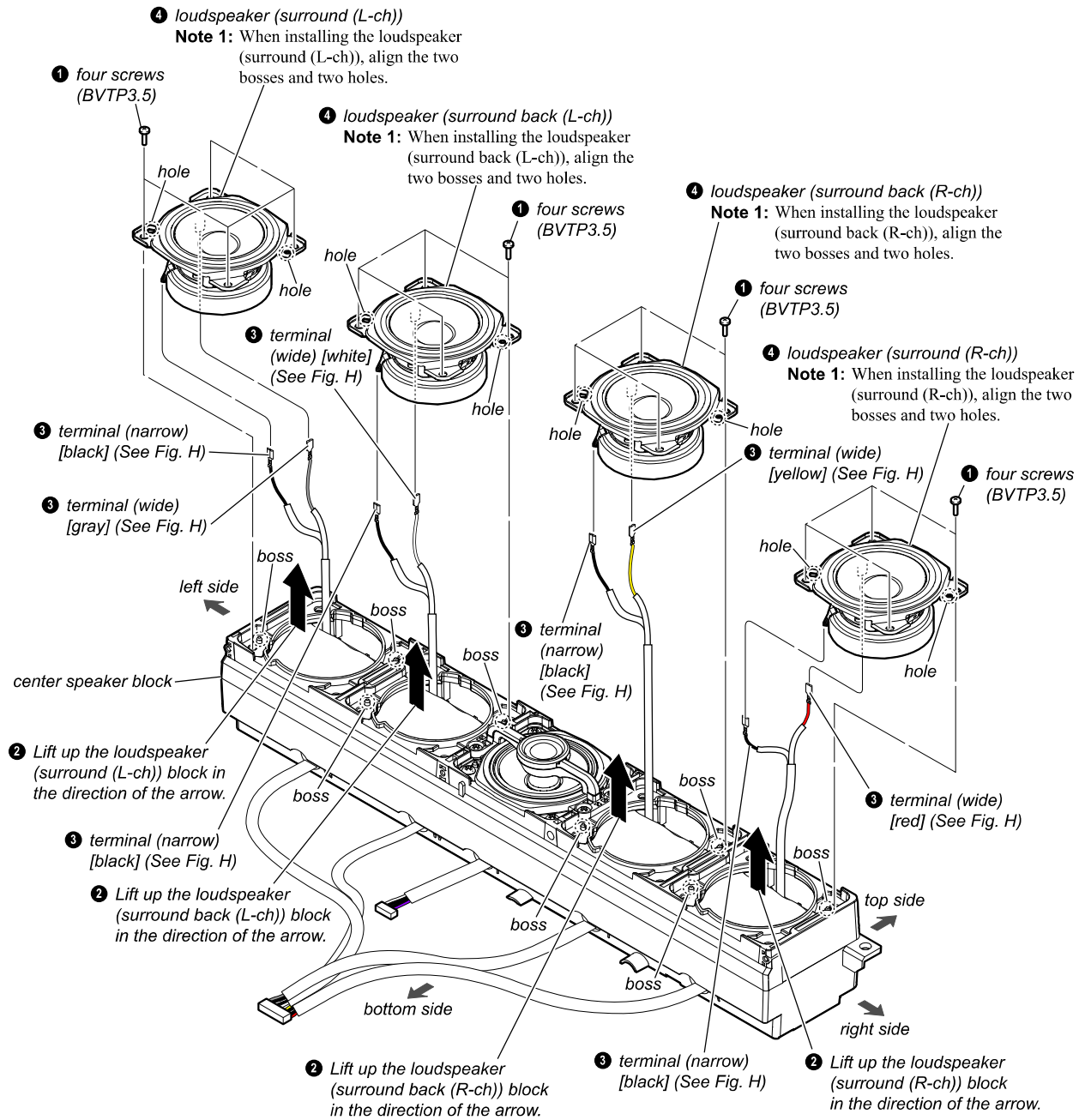


### 2-38. CENTER SPEAKER BLOCK



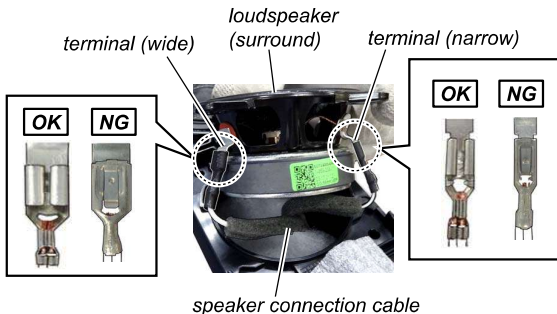
# HT-ST5000

## 2-39. LOUDSPEAKER (CENTER: SURROUND/SURROUND BACK)

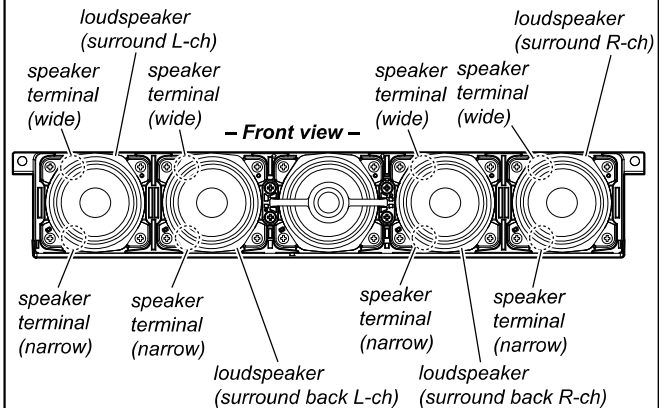


**• Installation direction for the terminals (surround)**  
 < Fig. H >

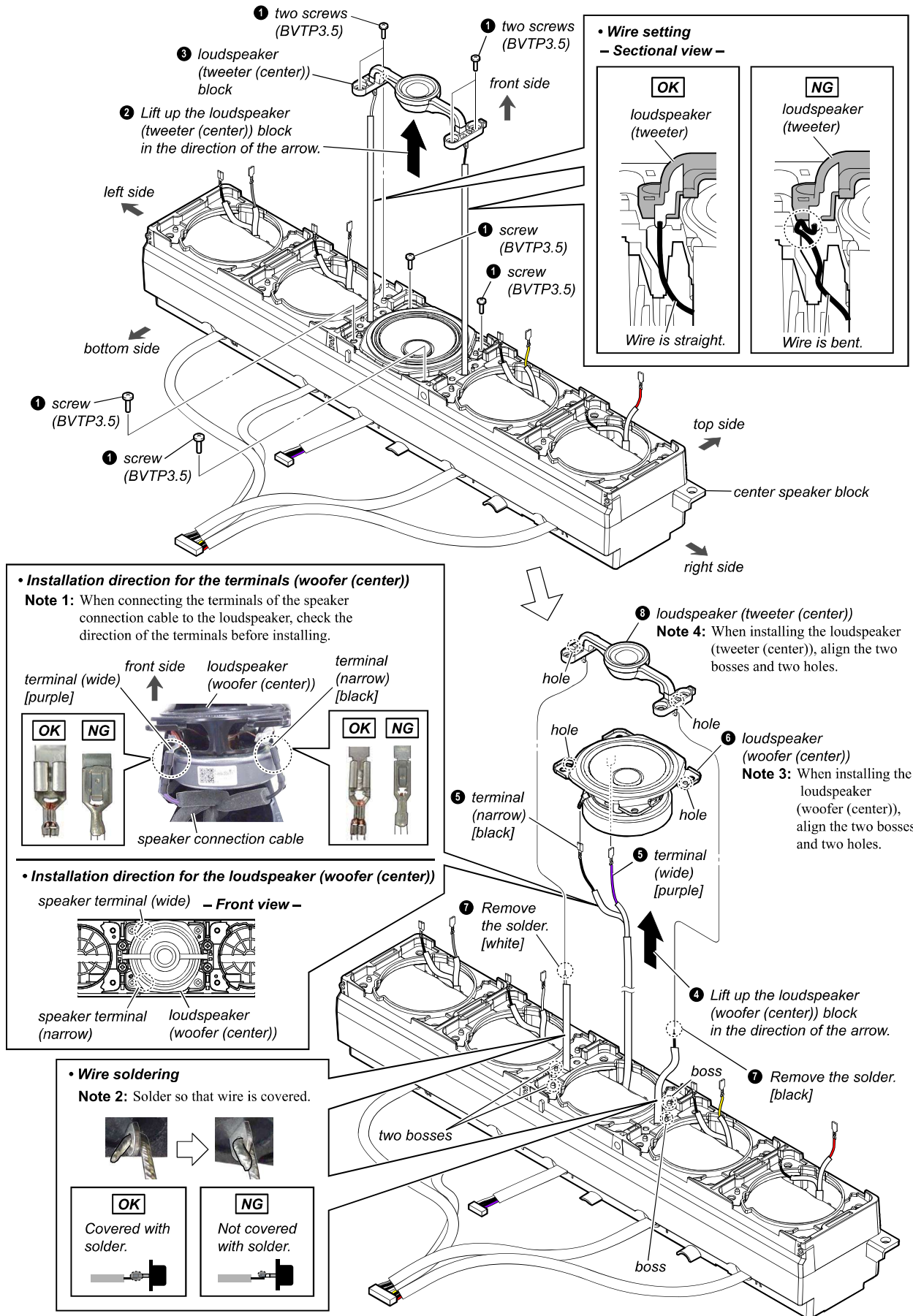
**Note 2:** When connecting the terminals of the speaker connection cable to the loudspeaker, check the direction of the terminals before installing.



**• Installation direction for the loudspeaker (surround)**

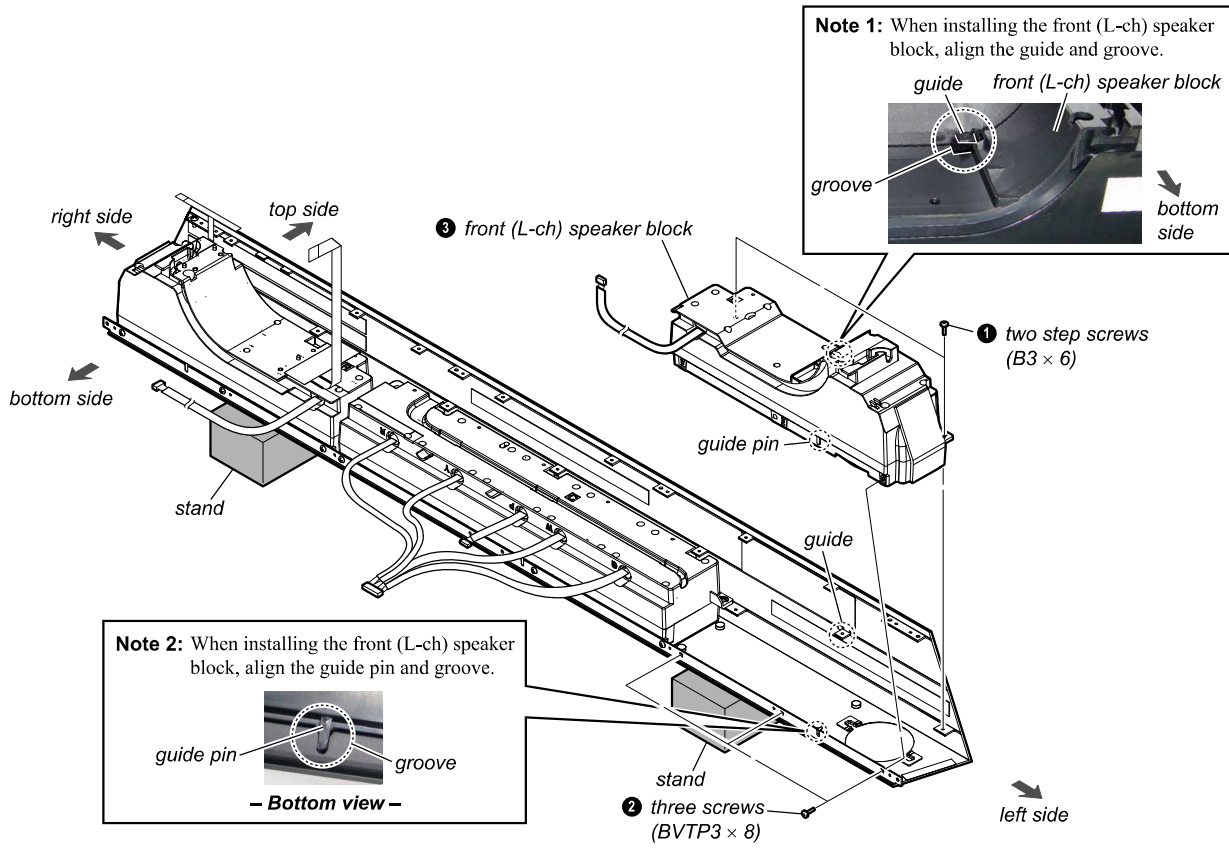


2-40. LOUDSPEAKER (CENTER: TWEETER/WOOFER)



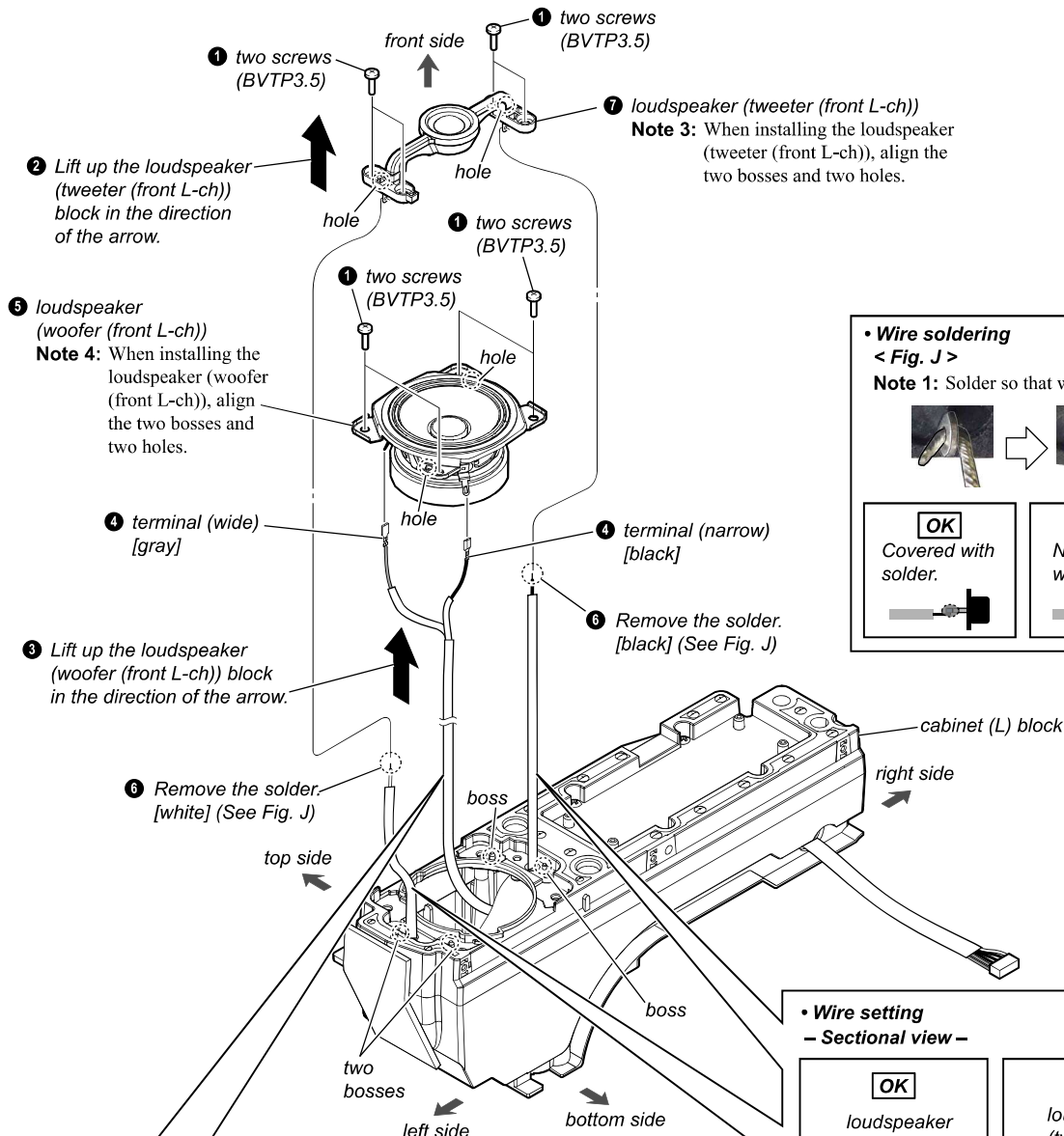
# HT-ST5000

## 2-41. FRONT (L-CH) SPEAKER BLOCK





2-42. LOUDSPEAKER (FRONT L-CH)



**• Wire soldering < Fig. J >**  
**Note 1:** Solder so that wire is covered.

**OK** Covered with solder.

**NG** Not covered with solder.

**• Installation direction for the terminals (woofer (front L-ch))**  
**Note 2:** When connecting the terminals of the speaker connection cable to the loudspeaker, check the direction of the terminals before installing.

terminal (wide) [gray]

terminal (narrow) [black]

speaker connection cable

**• Wire setting - Sectional view -**

**OK** loudspeaker (tweeter) Wire is straight.

**NG** loudspeaker (tweeter) Wire is bent.

**• Installation direction for the loudspeaker (woofer (front L-ch))**

speaker terminal (wide)

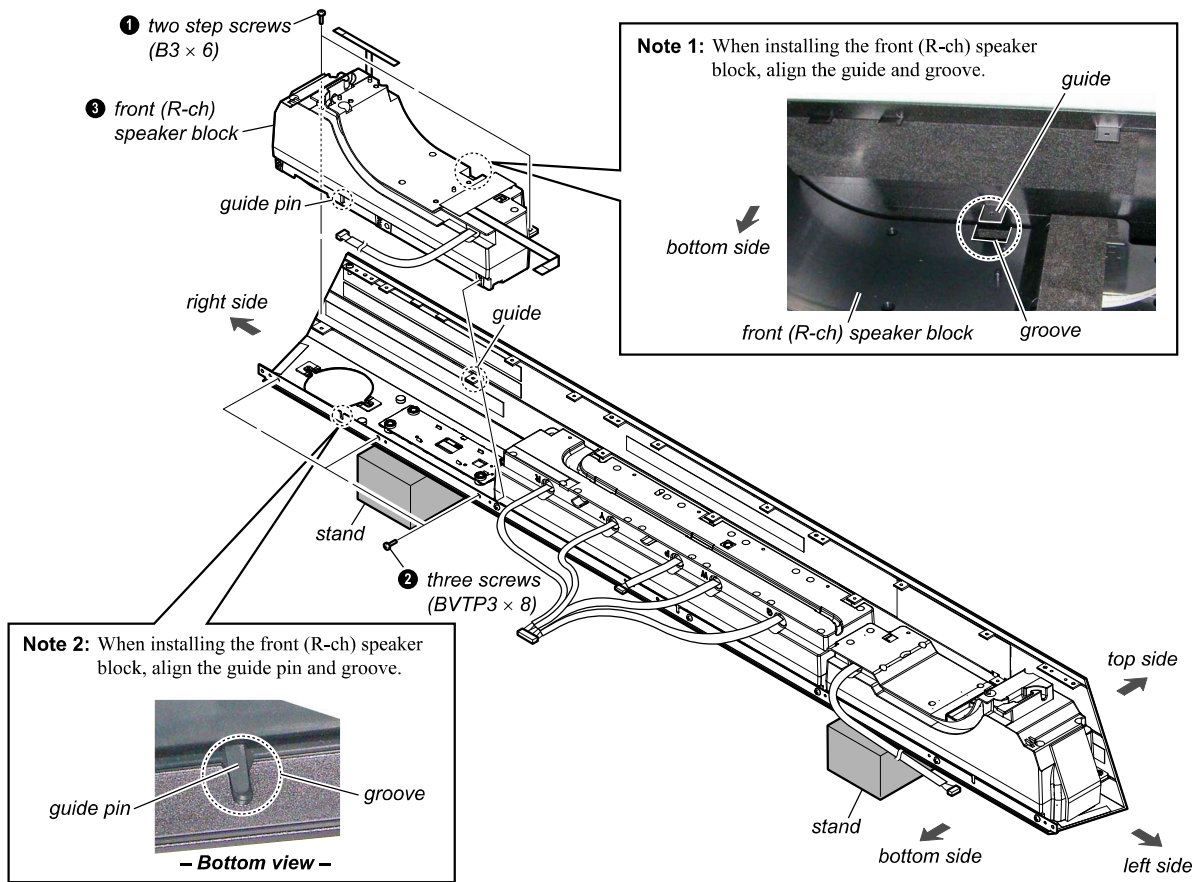
speaker terminal (narrow)

loudspeaker (woofer (front L-ch))

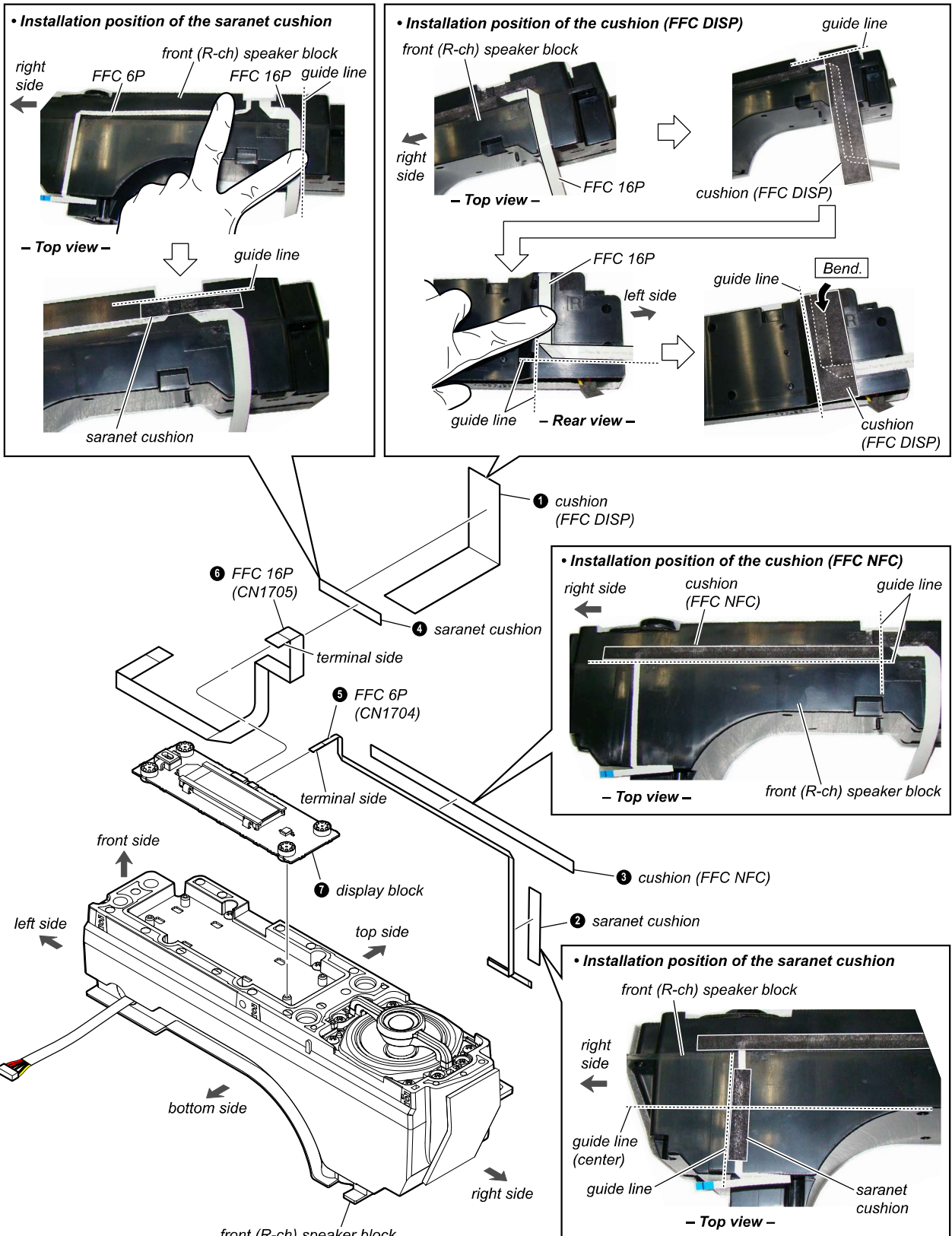
- Front view -

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## 2-43. FRONT (R-CH) SPEAKER BLOCK

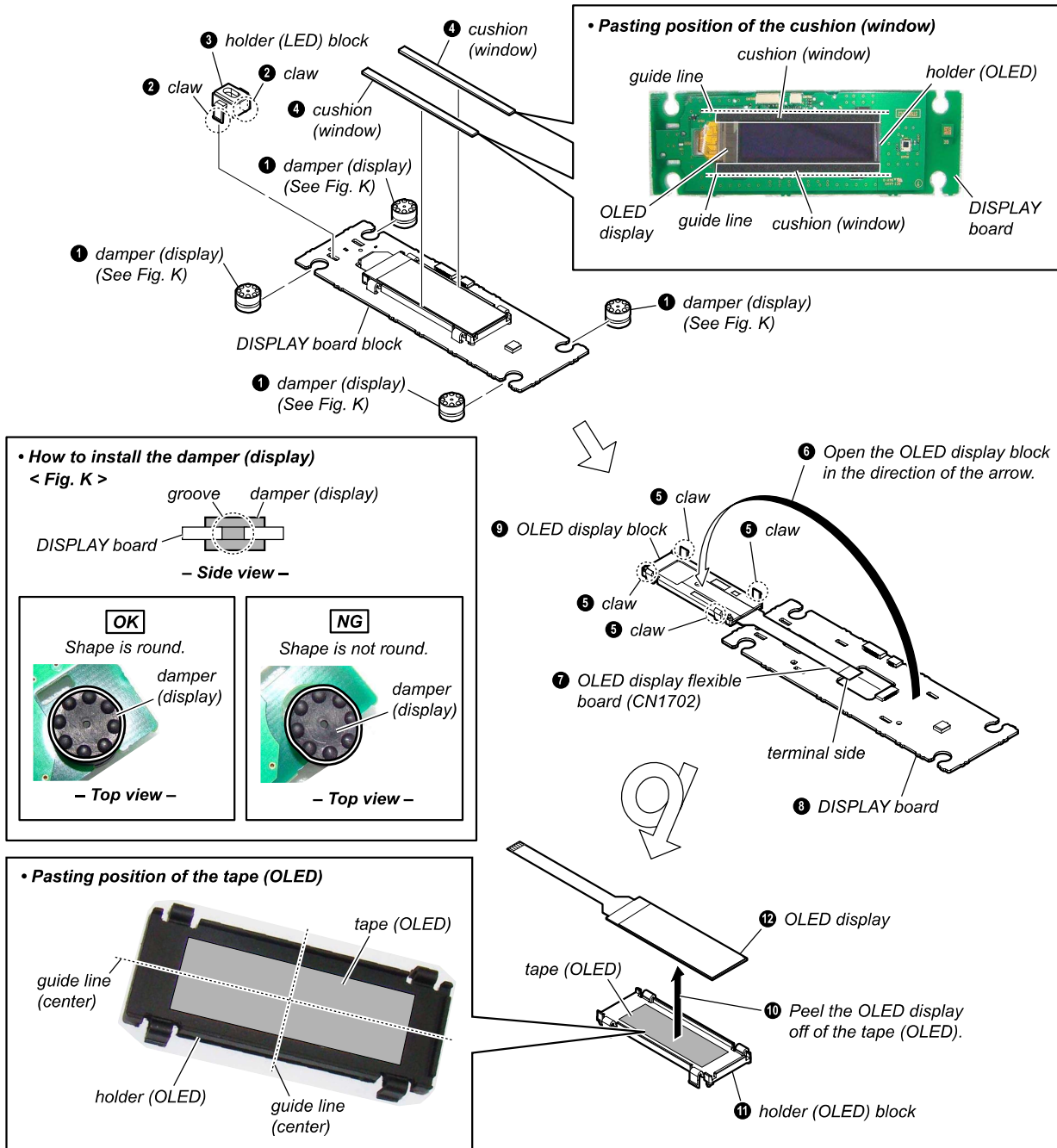


2-44. DISPLAY BLOCK

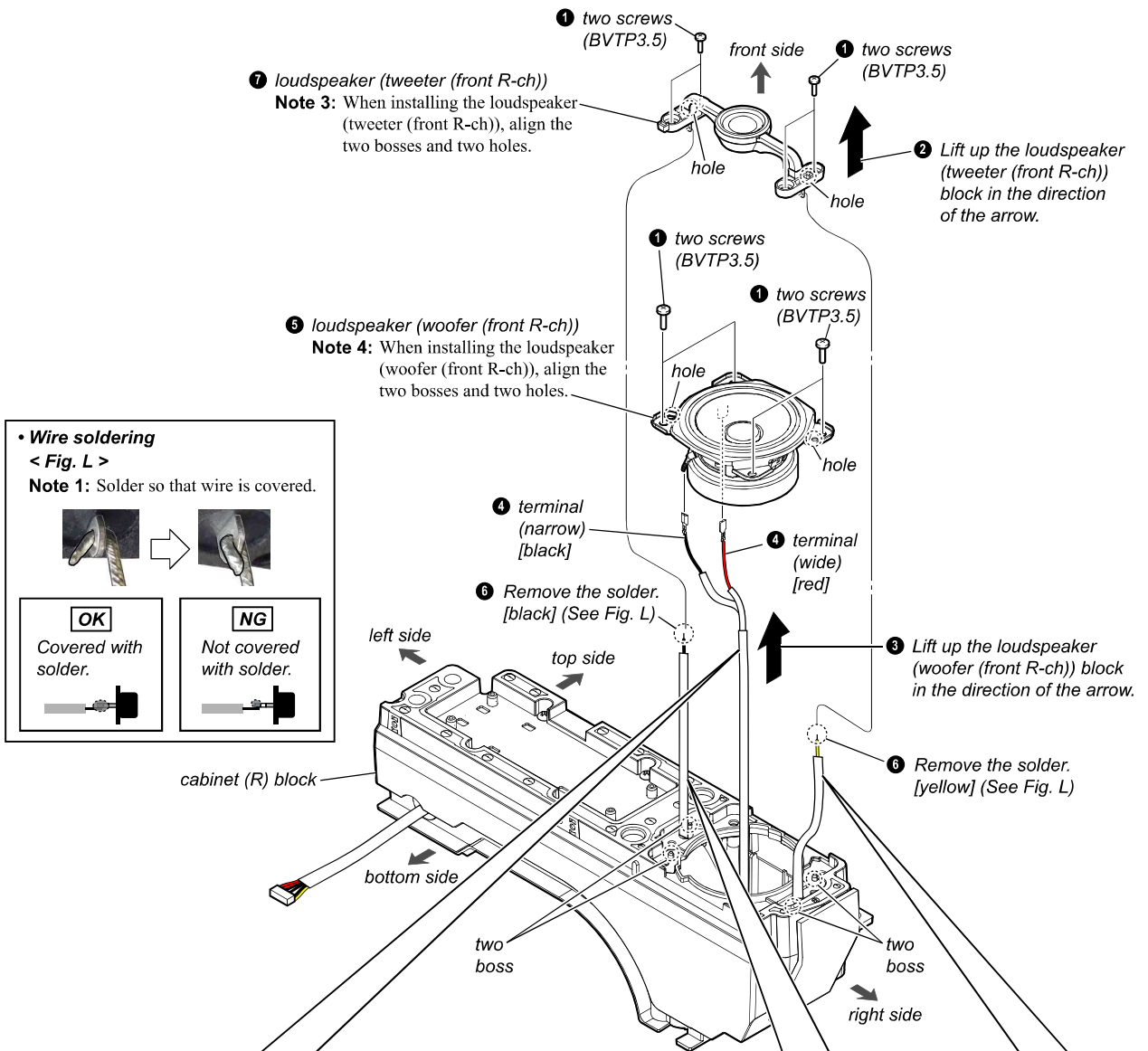


# HT-ST5000

## 2-45. DISPLAY BOARD, OLED DISPLAY



2-46. LOUDSPEAKER (FRONT R-CH)



**• Wire soldering**  
 < Fig. L >  
**Note 1:** Solder so that wire is covered.

**OK**  
 Covered with solder.

**NG**  
 Not covered with solder.

**• Installation direction for the terminals (woofer (front R-ch))**  
**Note 2:** When connecting the terminals of the speaker connection cable to the loudspeaker, check the direction of the terminals before installing.

terminal (wide) [red]

terminal (narrow) [black]

speaker connection cable

terminal (wide) [red]

terminal (narrow) [black]

**OK** **NG**

**• Installation direction for the loudspeaker (woofer (front R-ch))**

speaker terminal (wide)

speaker terminal (narrow)

loudspeaker (woofer (front R-ch))

- Front view -

**• Wire setting**  
 - Sectional view -

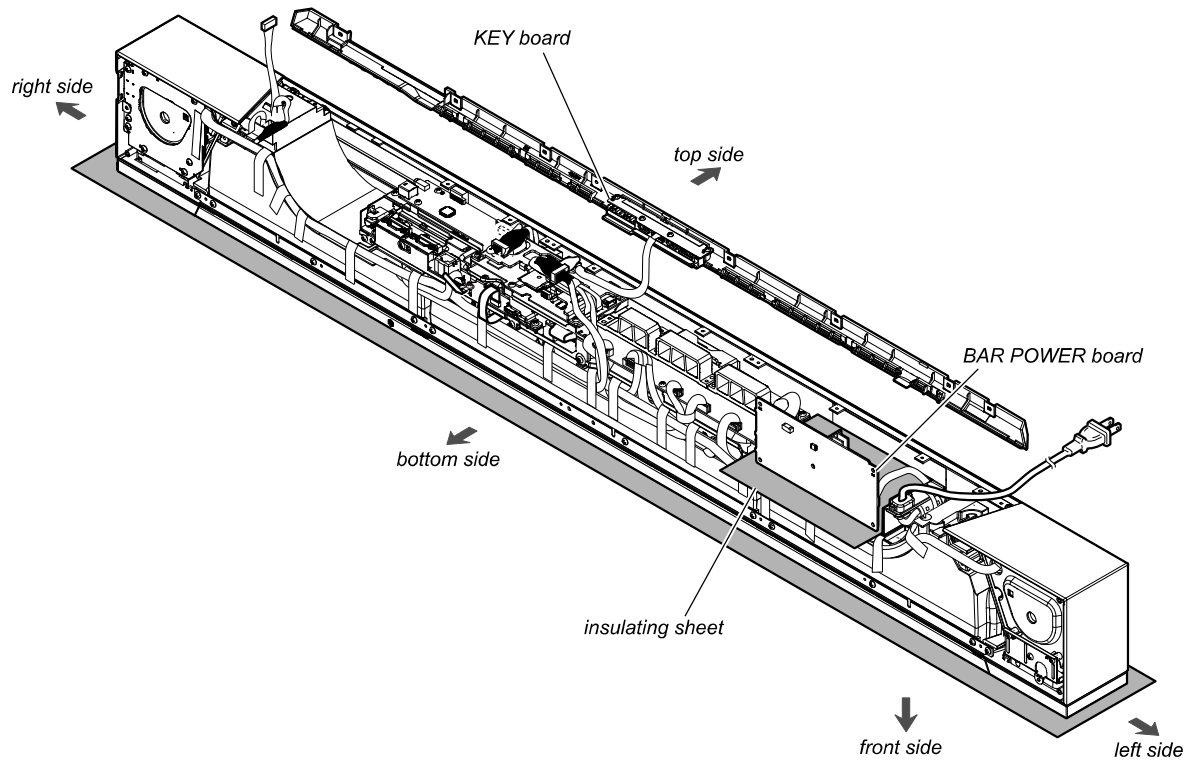
**OK**  
 loudspeaker (tweeter)  
 Wire is straight.

**NG**  
 loudspeaker (tweeter)  
 Wire is bent.



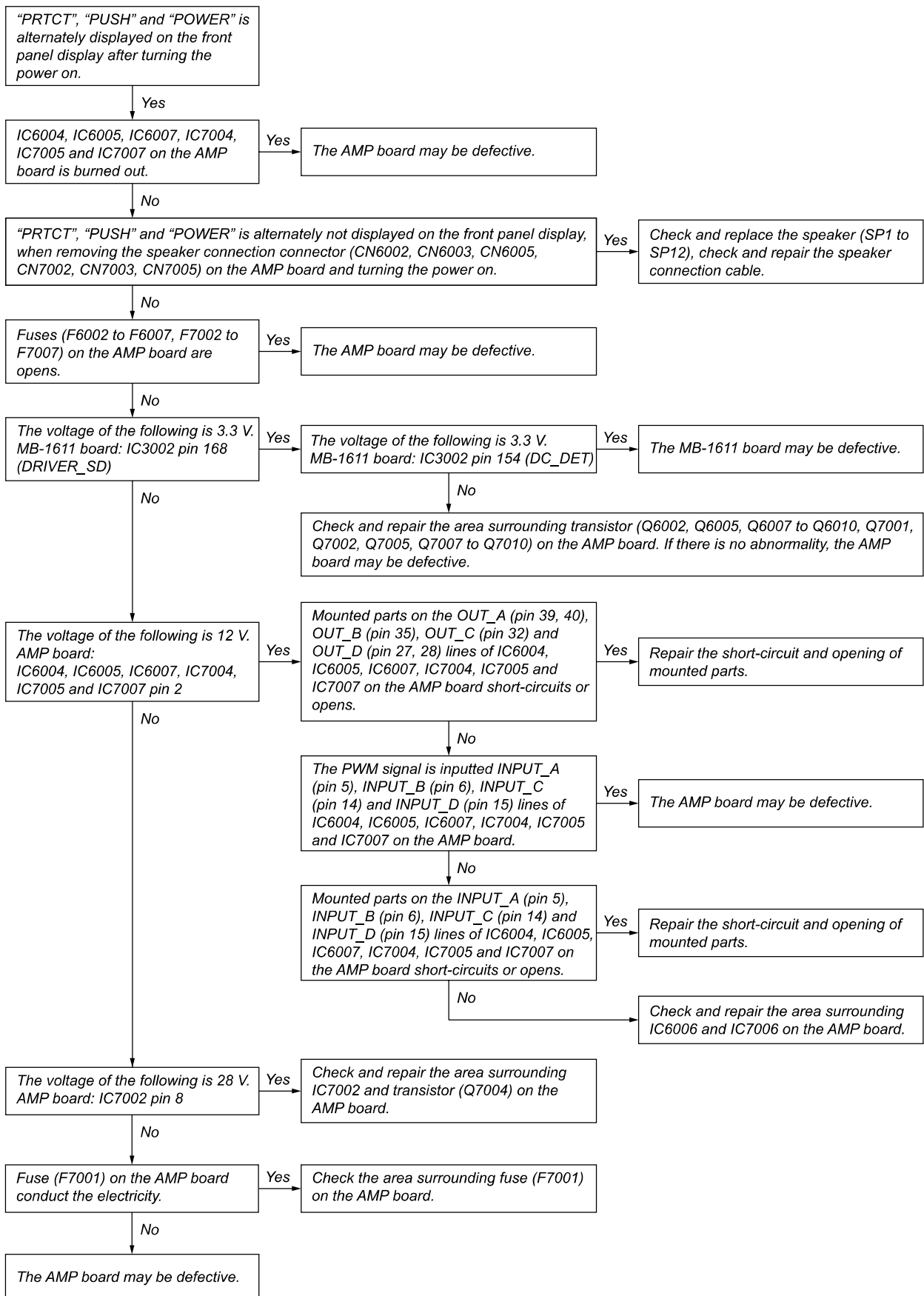
# HT-ST5000

## 2-47. BAR POWER BOARD SERVICE POSITION



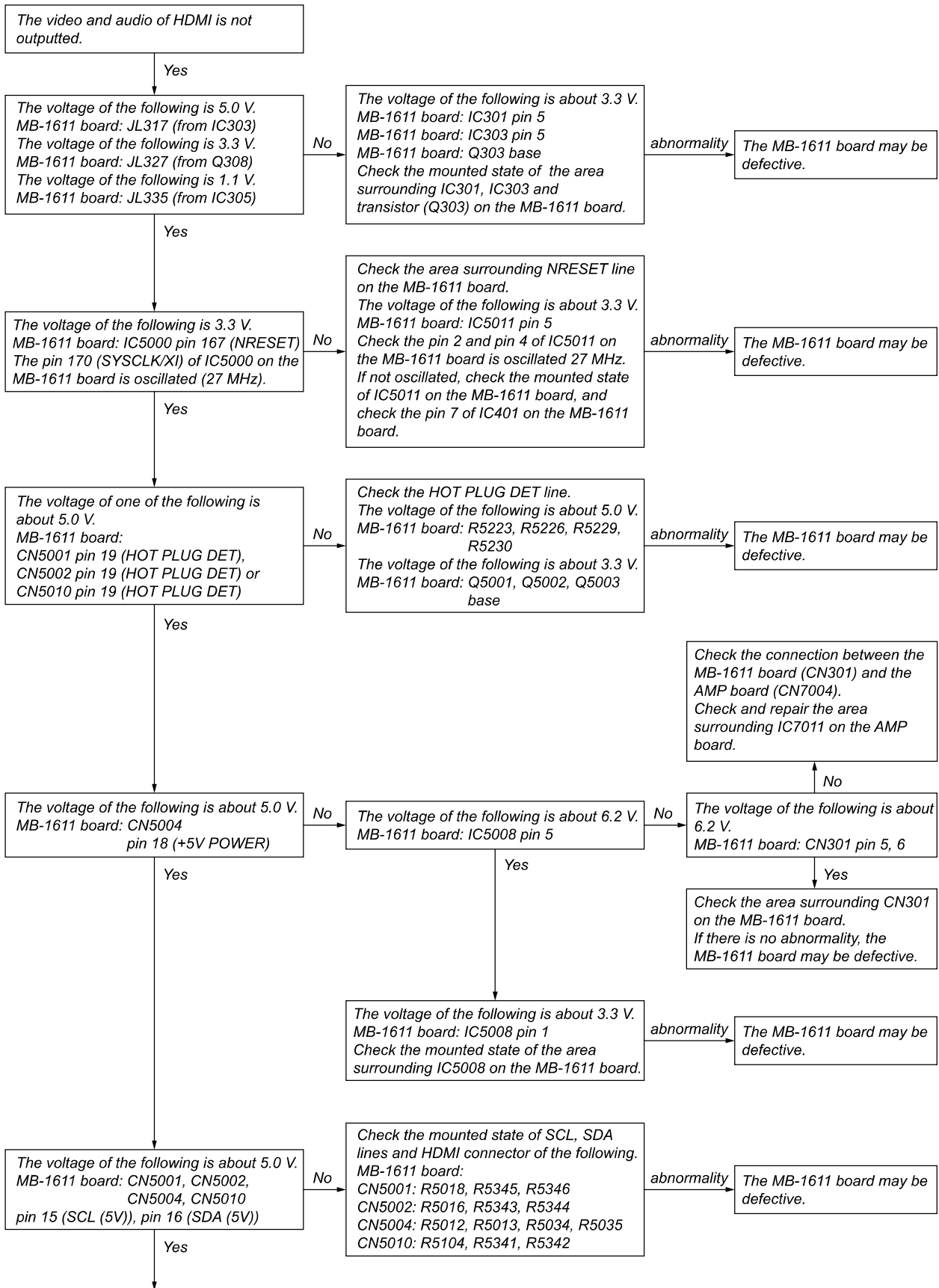
## SECTION 3 TROUBLESHOOTING

### 1. "PRTCT", "PUSH" and "POWER" is displayed on the front panel display after turning the power on

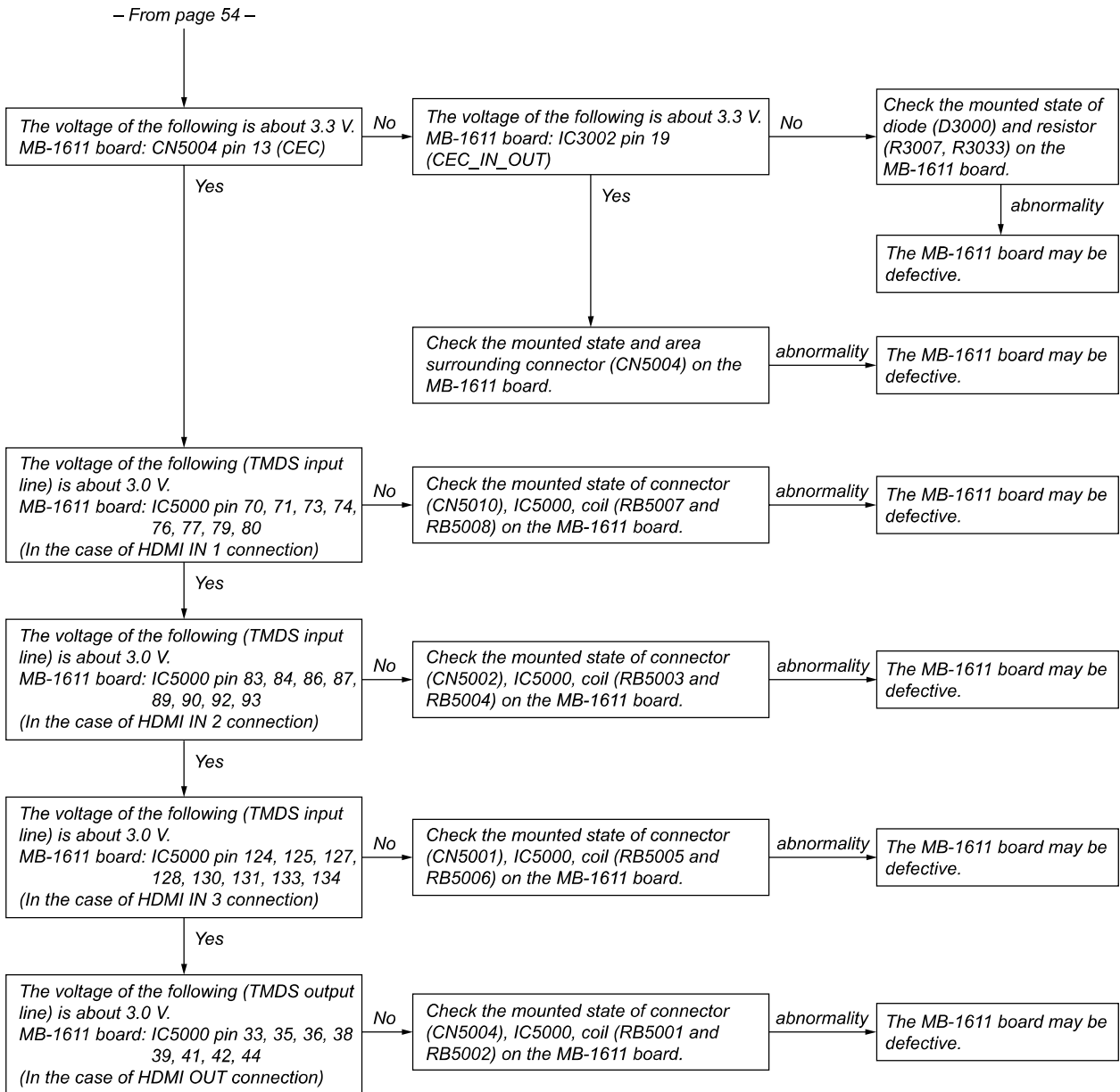


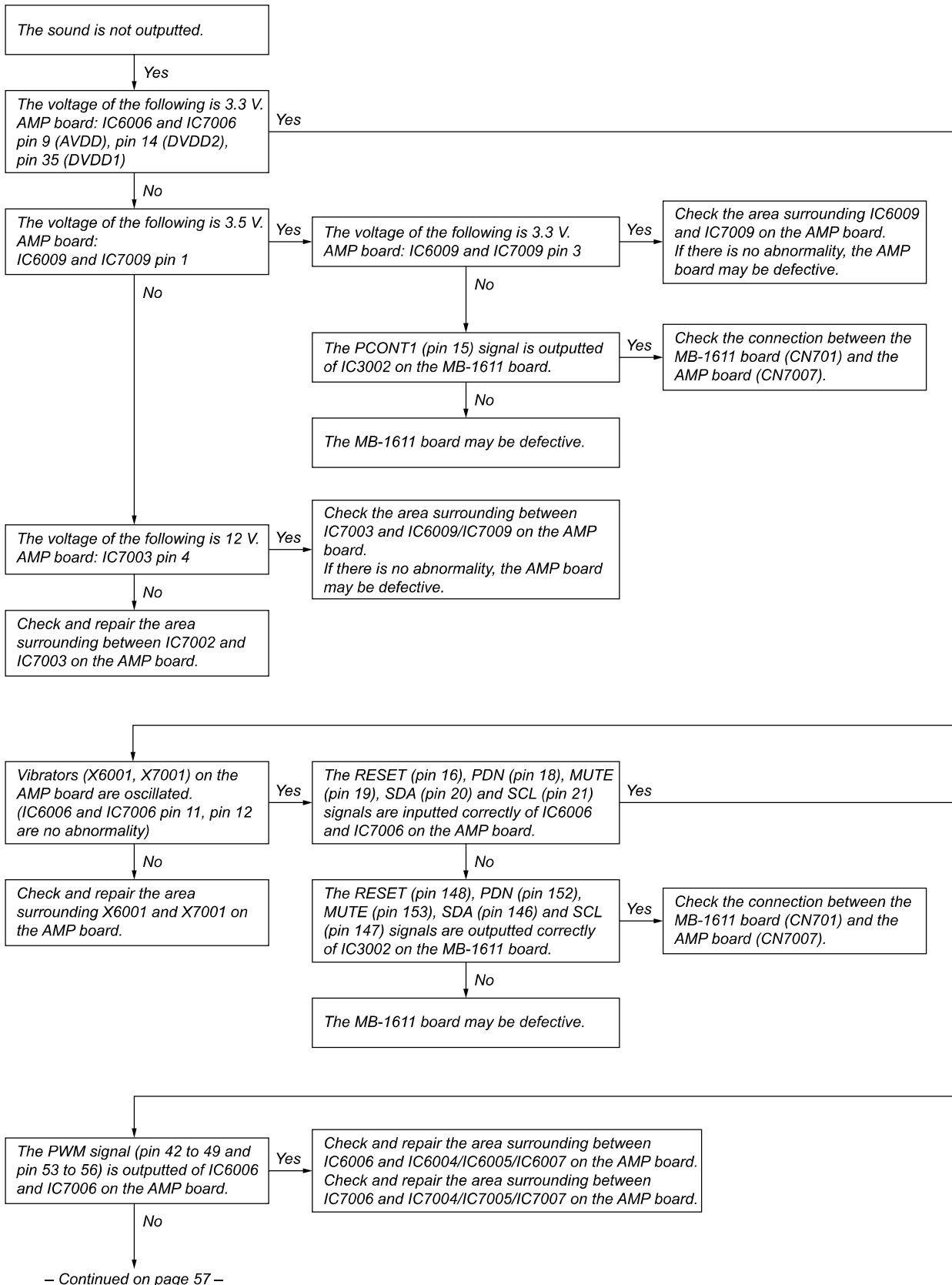
## HT-ST5000

## 2. The video and audio of HDMI is not outputted

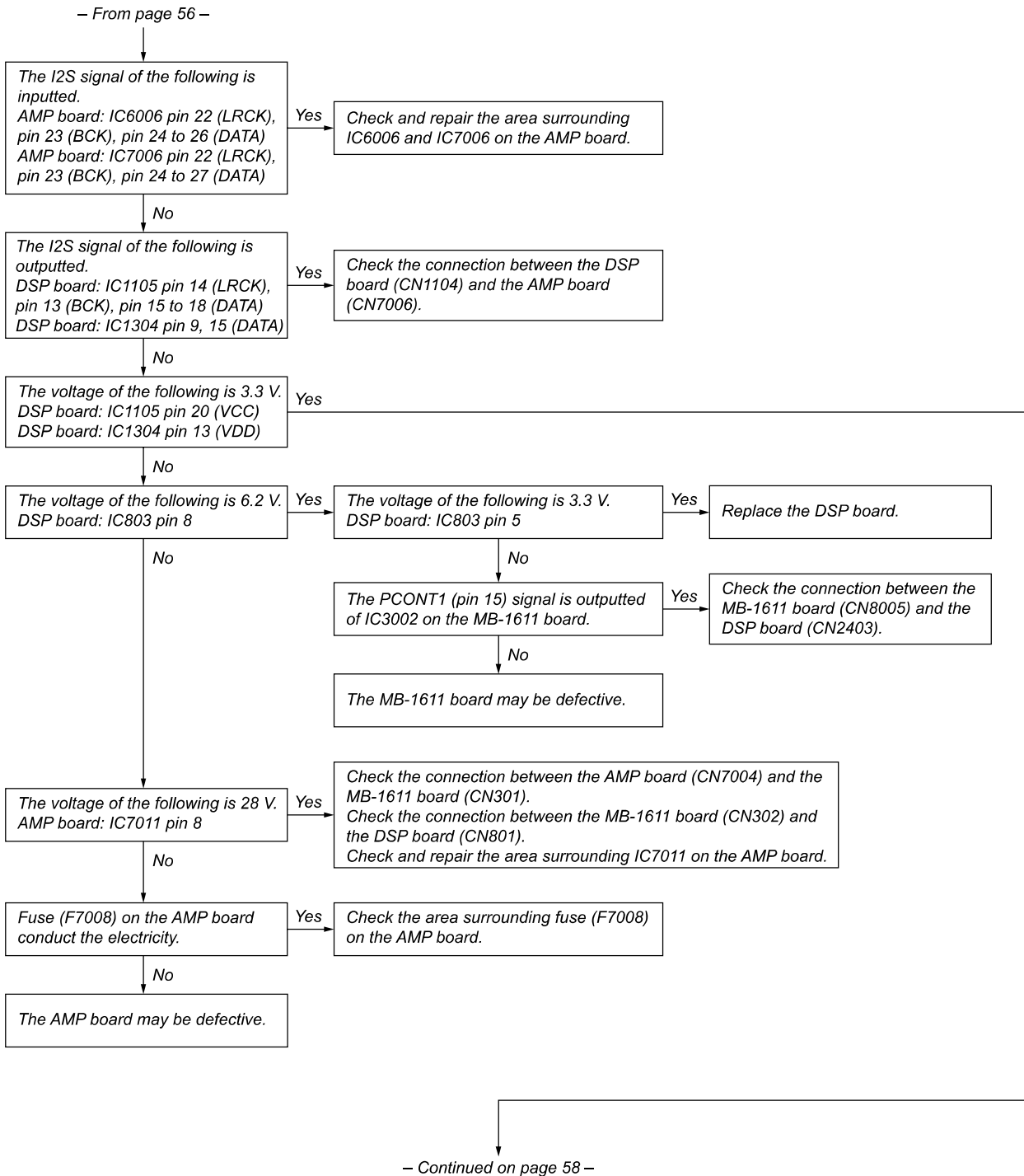


- Continued on page 55 -



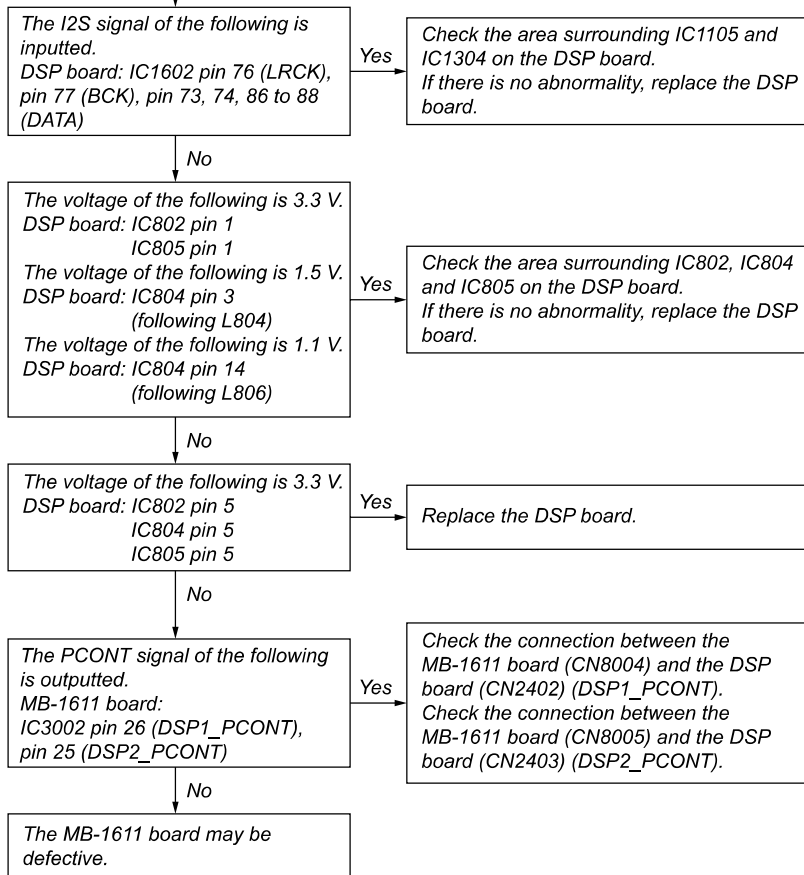
**HT-ST5000****3. The sound is not outputted**



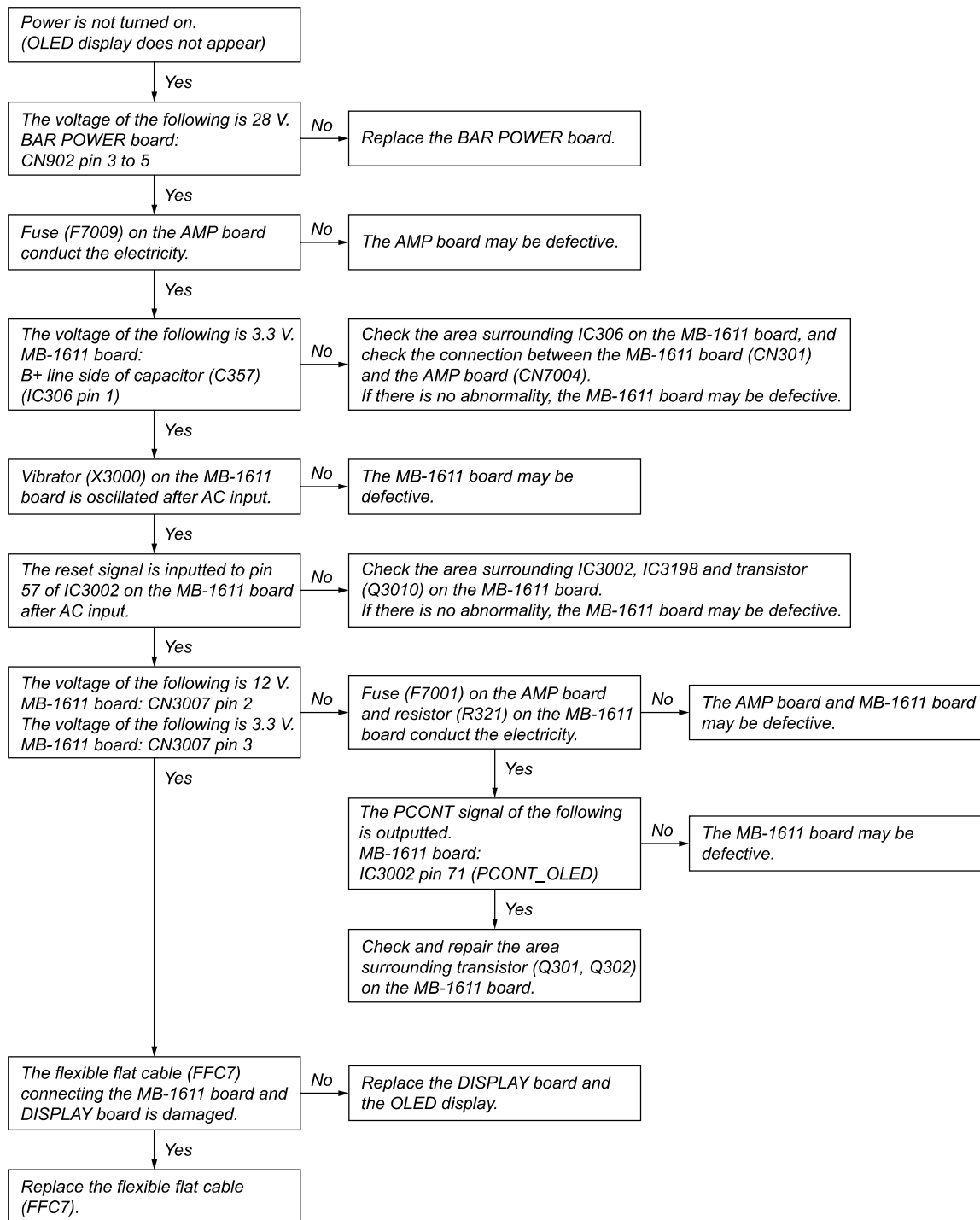


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#### 4. Power is not turned on



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## SECTION 4 EXPLODED VIEWS

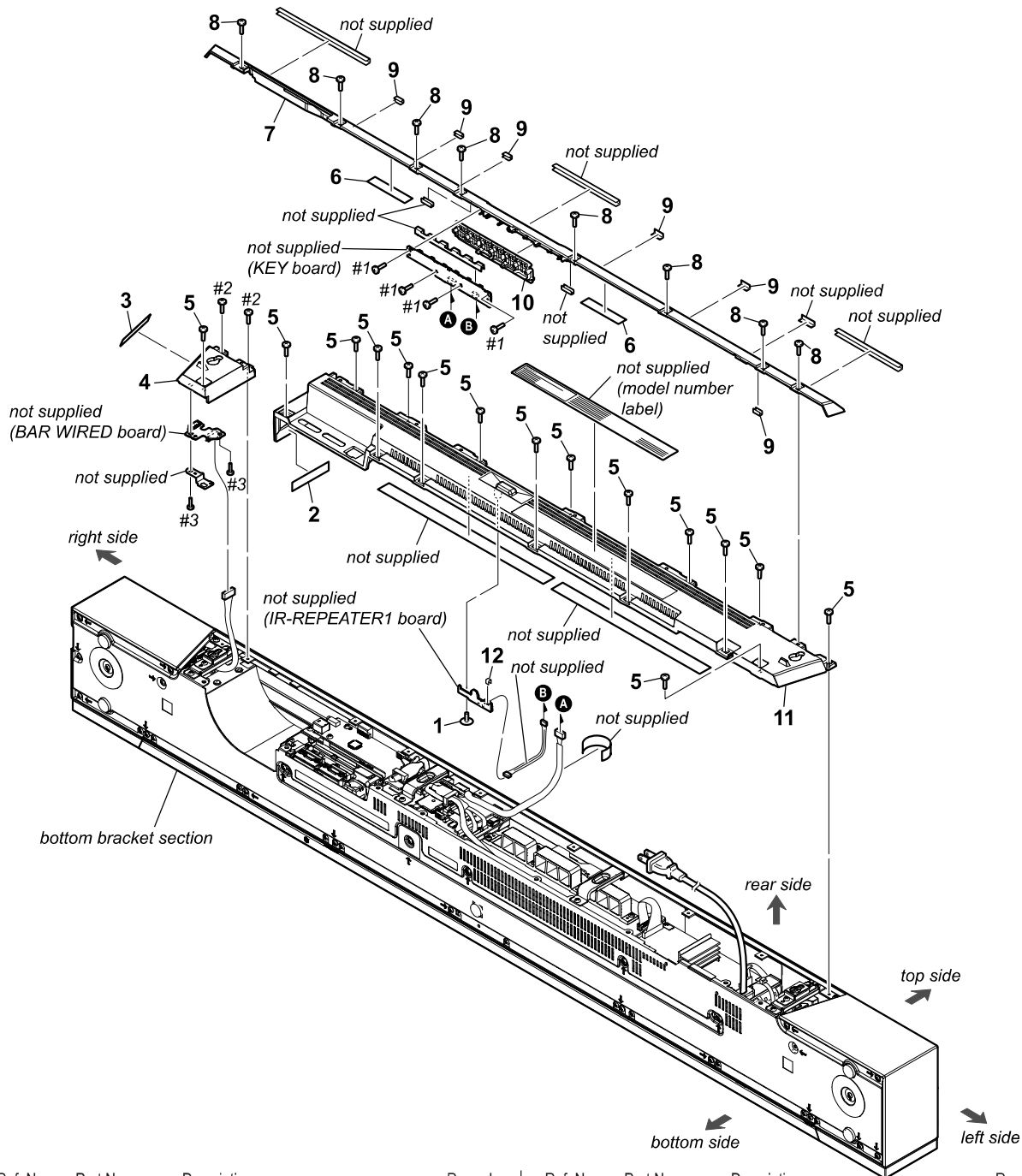
**Note:**

- 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)

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

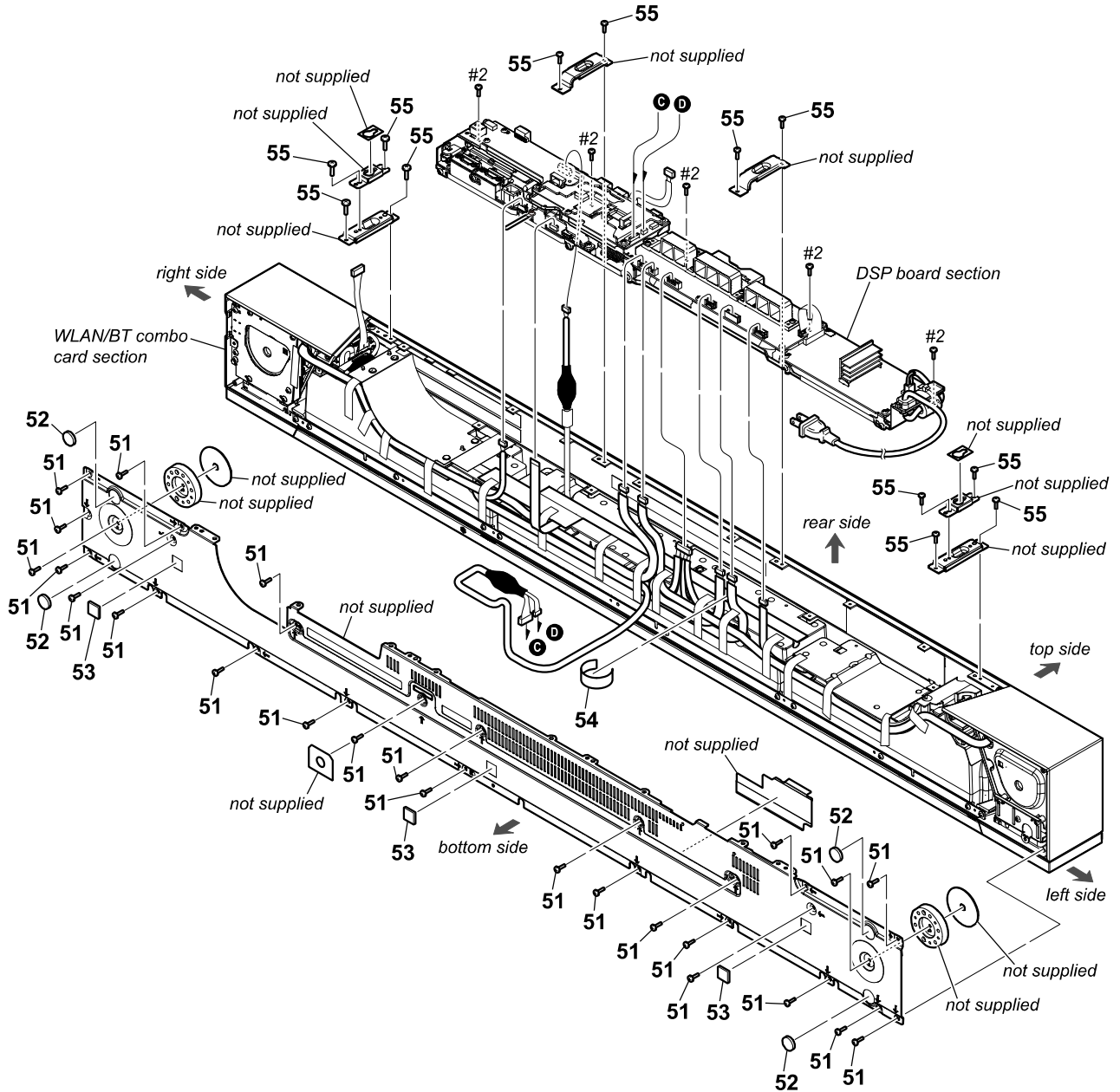
↑ Parts Color    ↑ Cabinet's Color

### 4-1. BACK PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	4-691-885-01	SCREW, +PWH 3X8		9	4-564-787-11	NON WOVEN FABRIC (T0.3)	
*	2	3-378-109-01	CUSHION, SARANET	10	4-687-661-01	BUTTON	
3	4-692-070-01	SHEET (PLUG)		11	X-2594-468-3	PANEL (BACK L) ASSY	
4	4-687-659-01	PANEL (BACK R)		12	4-427-517-01	CUSHION (F)	
5	4-537-542-01	STEP SCREW B3X6		#1	7-685-534-14	SCREW +BTP 2.6X8 TYPE2 N-S	
6	3-378-109-12	CUSHION, SARANET		#2	7-685-646-71	SCREW +BVTP 3X8 TYPE2 IT-3	
7	4-687-660-01	COVER (REAR)		#3	7-685-645-71	SCREW +BVTP 3X6 TYPE2 IT-3	
8	4-227-843-03	SCREW (TP), FLAT HEAD (3.6X8.0 mm)					

4-2. BOTTOM BRACKET SECTION

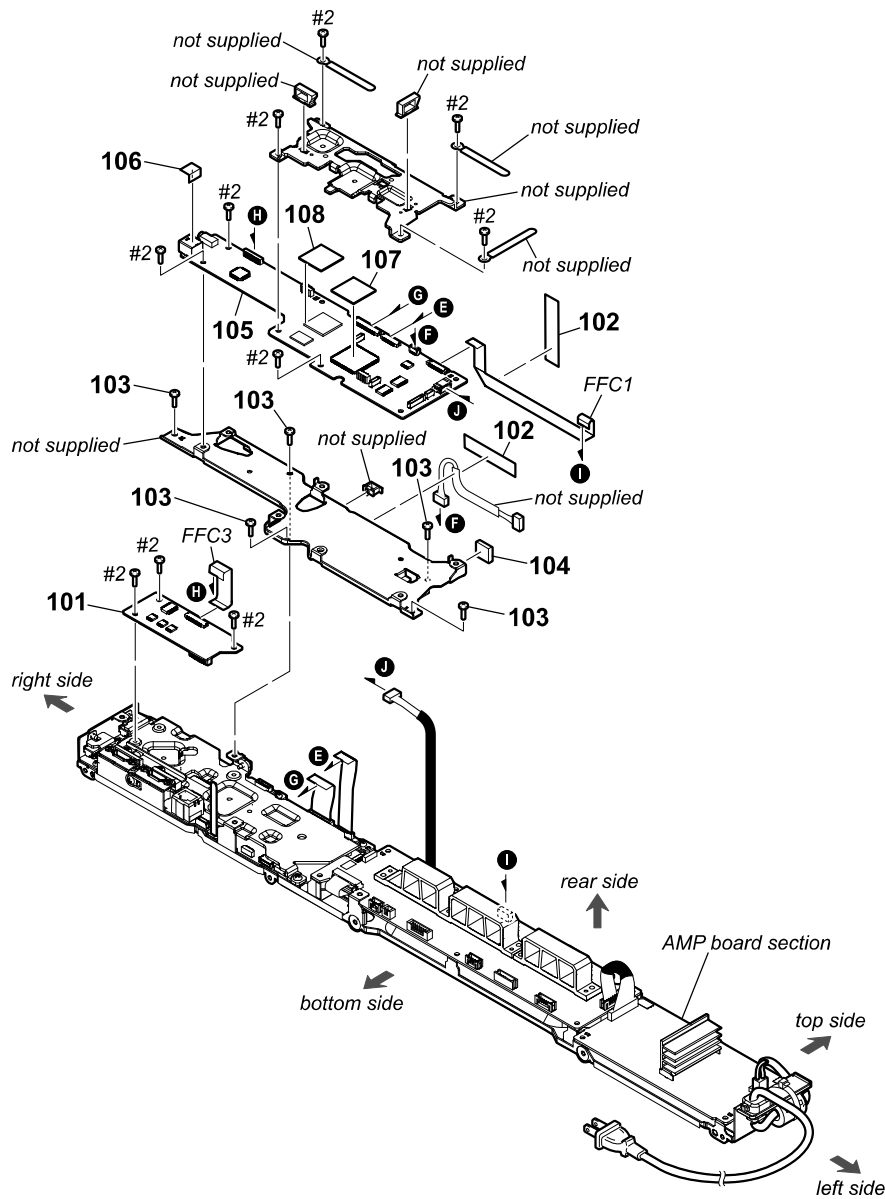


Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	3-704-515-22	SCREW (BV/RING) (3.7X8.0 mm)		55	3-077-331-21	+BV3 (3-CR) (L = 6.0 mm)	
52	4-687-689-01	FOOT		#2	7-685-646-71	SCREW +BVTP 3X8 TYPE2 IT-3	
53	4-695-239-01	FOOT (CENTER)					
* 54	3-378-109-01	CUSHION, SARANET					



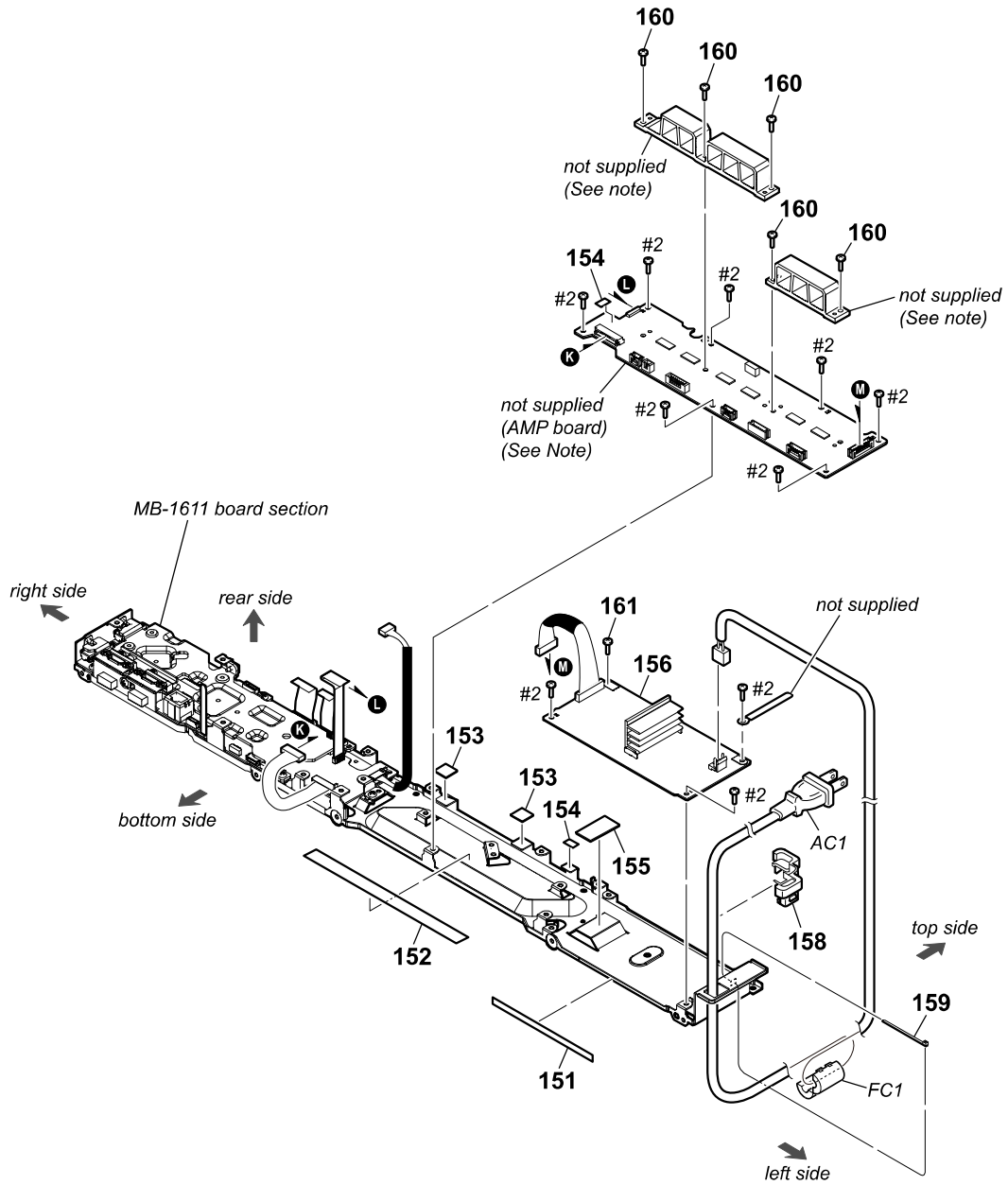
# HT-ST5000

## 4-3. DSP BOARD SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	A-2167-155-A	AUDIO SELECTOR BOARD, COMPLETE		107	4-589-900-01	SHEET, RADIO WAVE ABSORPTION	
* 102	3-378-109-01	CUSHION, SARANET		108	4-562-041-51	SHEET, RADIATION (22.0X22.0X1.0 mm)	
103	3-077-331-21	+BV3 (3-CR) (L = 6.0 mm)		FFC1	9-885-218-34	FFC 20P (DSP - AMP)	
104	4-697-168-01	CUSHION (KEY WIRE)		FFC3	9-885-218-35	FFC 30P (DSP - AUDIO SELECTOR)	
105	A-2187-919-A	DSP BOARD, COMPLETE (SV)		#2	7-685-646-71	SCREW +BVTP 3X8 TYPE2 IT-3	
106	4-582-466-61	CUSHION (T03)					

4-4. AMP BOARD SECTION

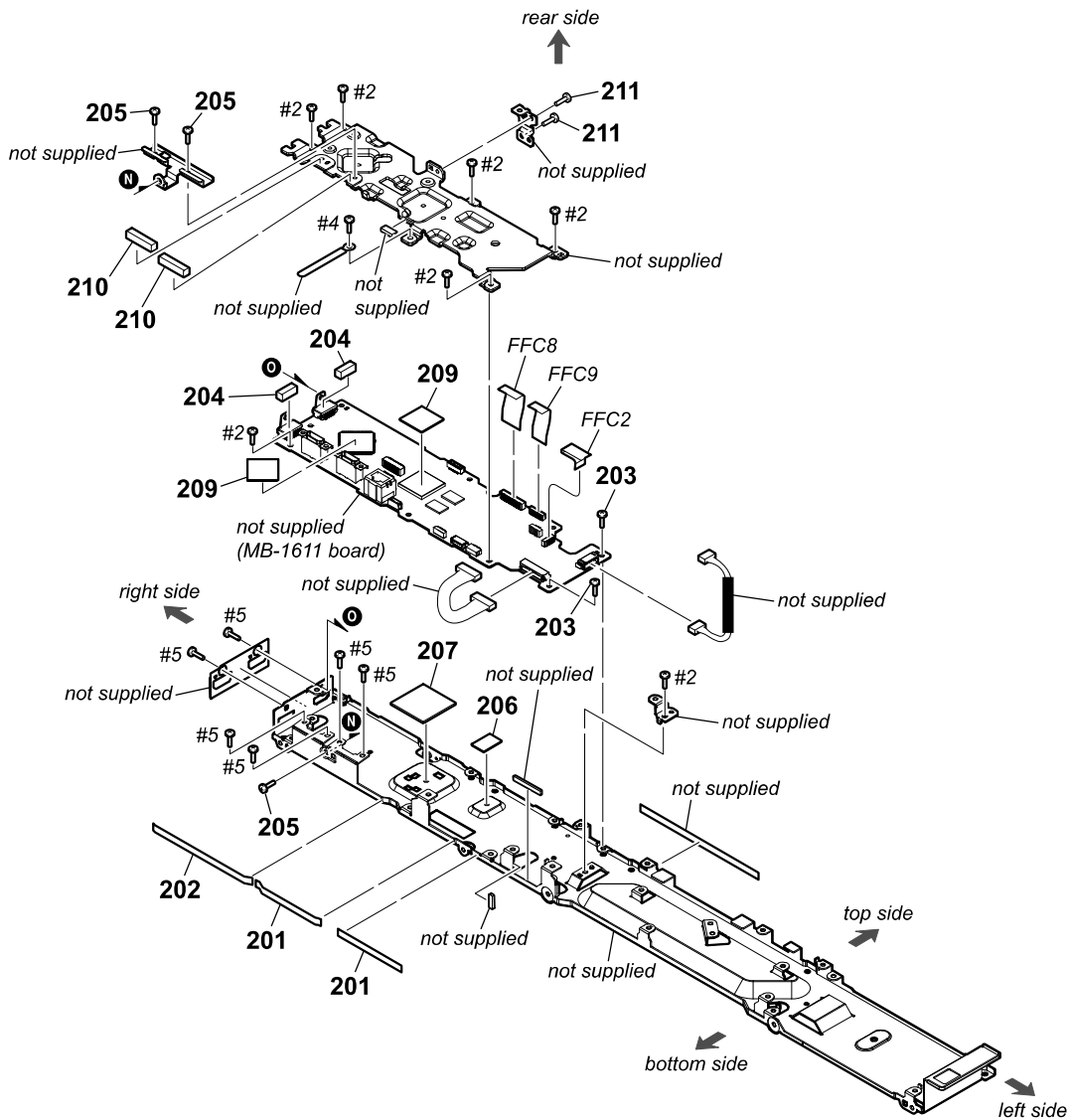


**Note:** The compound for heat radiation is applied to the touching portion between the IC on the AMP board and the heat sink. When the heat sink is removed, be careful not to touch the compound for heat radiation.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	4-691-336-31	SHEET, RADIATION (6.0X80.0X2.0 mm)		159	3-655-653-11	BAND (TAITON), BINDING	
152	4-691-336-41	SHEET, RADIATION (12.0X160.0X2.0 mm)		160	3-905-609-13	SCREW (TRANSISTOR) (3.7X14.0 mm)	
153	4-691-336-01	SHEET, RADIATION (13.0X13.0X2.0 mm)		161	4-974-510-11	SCREW (+BV 3X8 CU)	
154	4-562-041-21	SHEET, RADIATION (10.0X6.0X1.0 mm)		△ AC1	1-834-965-23	CORD, POWER	
155	4-691-336-51	SHEET, RADIATION (16.0X30.0X4.0 mm)		FC1	1-500-386-11	FILTER, CLAMP (FERRITE CORE)	
156	A-2167-168-A	BAR POWER BOARD, COMPLETE		#2	7-685-646-71	SCREW +BVTP 3X8 TYPE2 IT-3	
△ 158	4-966-267-12	BUSHING (FBS001), CORD					

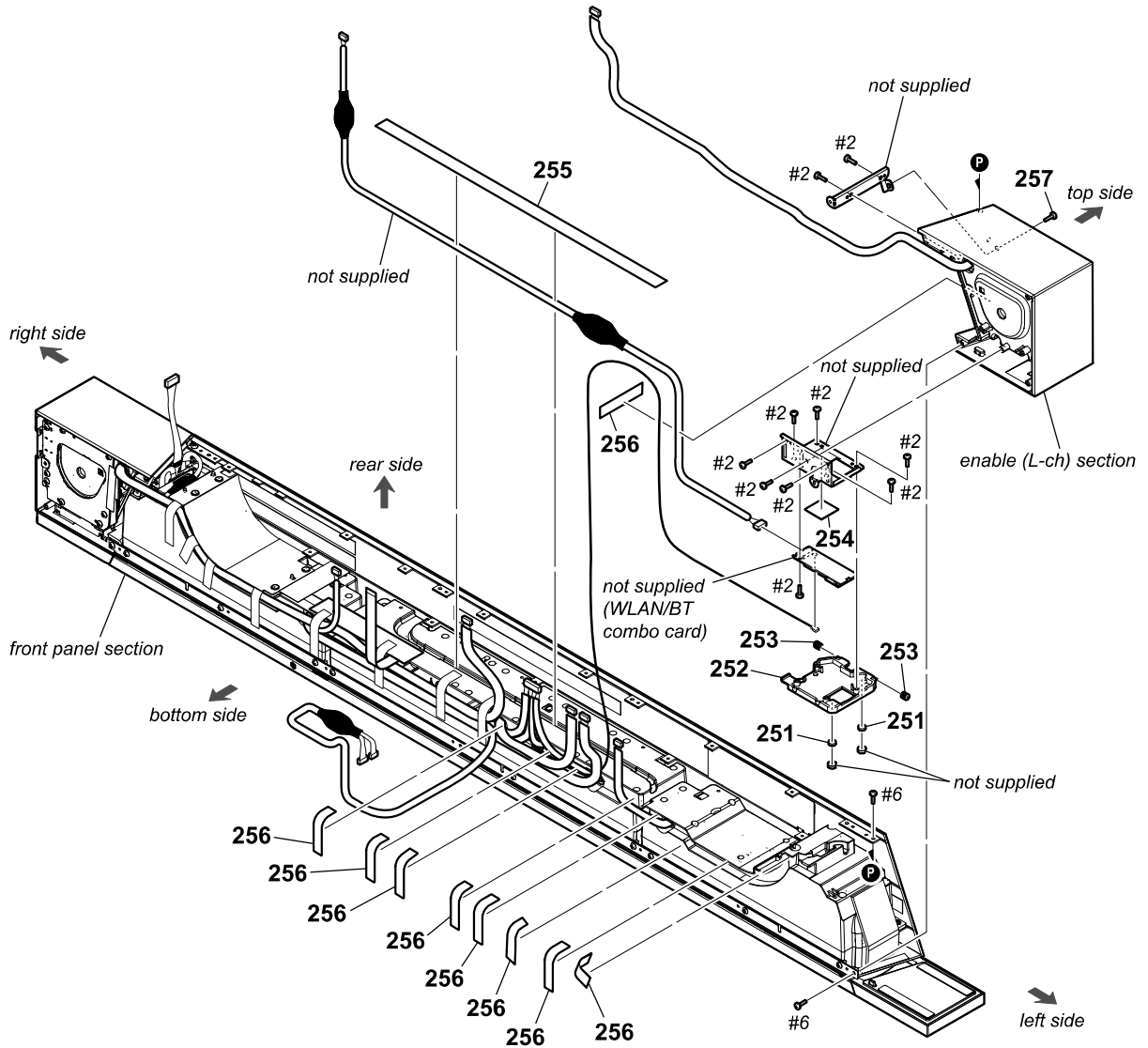
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## 4-5. MB-1611 BOARD SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	4-691-336-21	SHEET, RADIATION (6.0X40.0X2.0 mm)		211	3-077-331-21	+BV3 (3-CR) (L = 6.0 mm)	
202	4-691-336-31	SHEET, RADIATION (6.0X80.0X2.0 mm)		FFC2	9-885-218-33	FFC 16P (MB-1611 - AMP)	
203	4-974-510-11	SCREW (+BV 3X8 CU)		FFC8	9-885-218-37	FFC 40P (MB-1611 - DSP)	
204	4-586-625-11	GASKET (SL)		FFC9	9-885-218-36	FFC 24P (MB-1611 - DSP)	
205	3-704-515-22	SCREW (BV/RING) (3.7X8.0 mm)		#2	7-685-646-71	SCREW +BVTP 3X8 TYPE2 IT-3	
206	4-562-041-01	SHEET, RADIATION (18.0X12.0X1.0 mm)		#4	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	
207	4-691-336-11	SHEET, RADIATION (35.0X35.0X2.0 mm)		#5	7-682-546-09	SCREW +B 3X5	
209	4-589-900-01	SHEET, RADIO WAVE ABSORPTION					
210	4-586-625-31	GASKET (SL)					

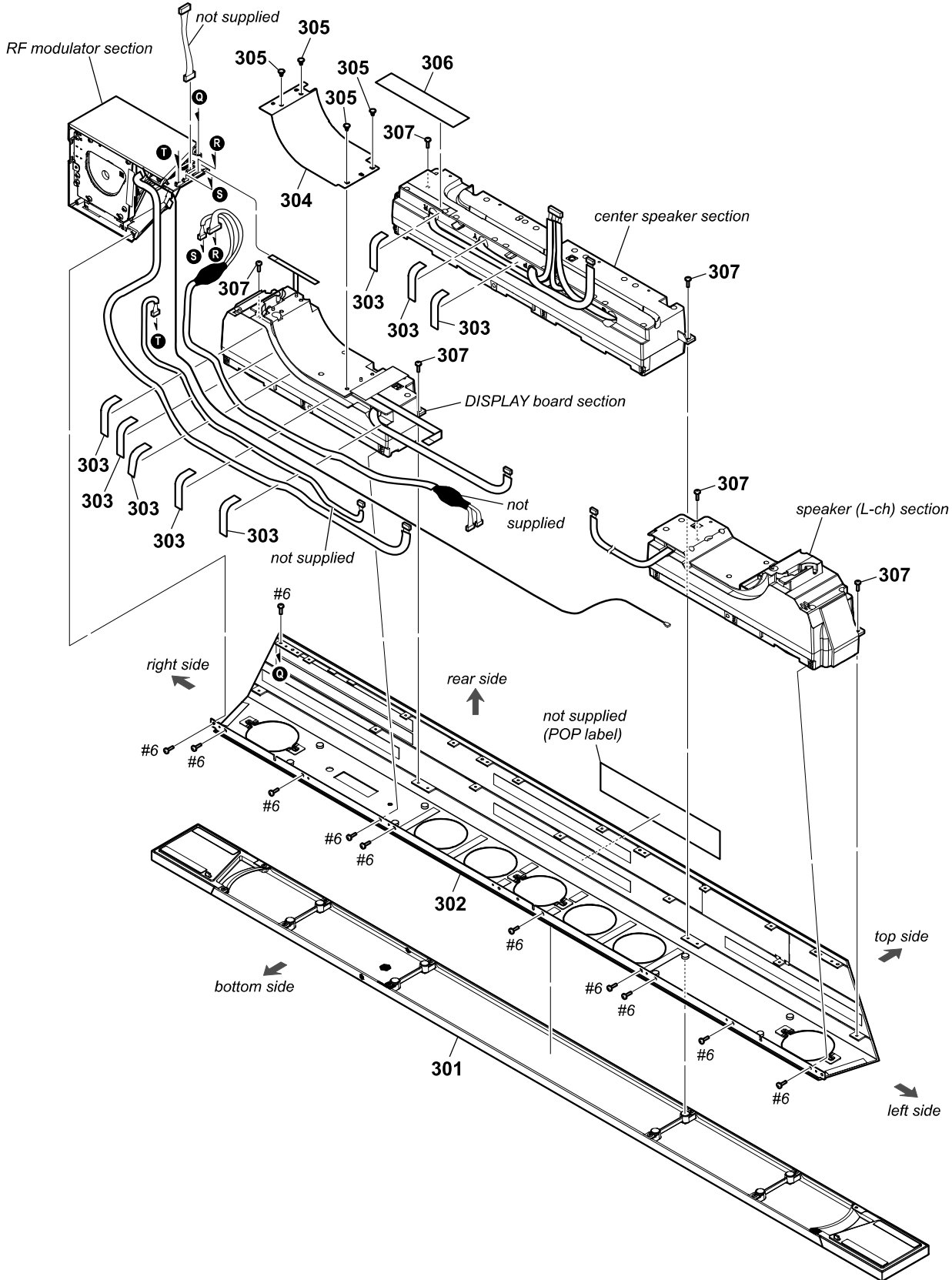
4-6. WLAN/BT COMBO CARD SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
251	4-686-814-01	CUSHION (MAGNET S)		* 256	3-378-109-01	CUSHION, SARANET	
252	4-598-536-01	HOLDER (WIRELESS L)		257	3-704-515-22	SCREW (BV/RING) (3,7X8,0 mm)	
253	4-686-804-01	BUSHING (ENABLE)		#2	7-685-646-71	SCREW +BVTP 3X8 TYPE2 IT-3	
254	4-686-810-01	SHEET (THERMAL WIFI)		#6	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
255	4-691-717-01	CUSHION (WIRE WIFI)					

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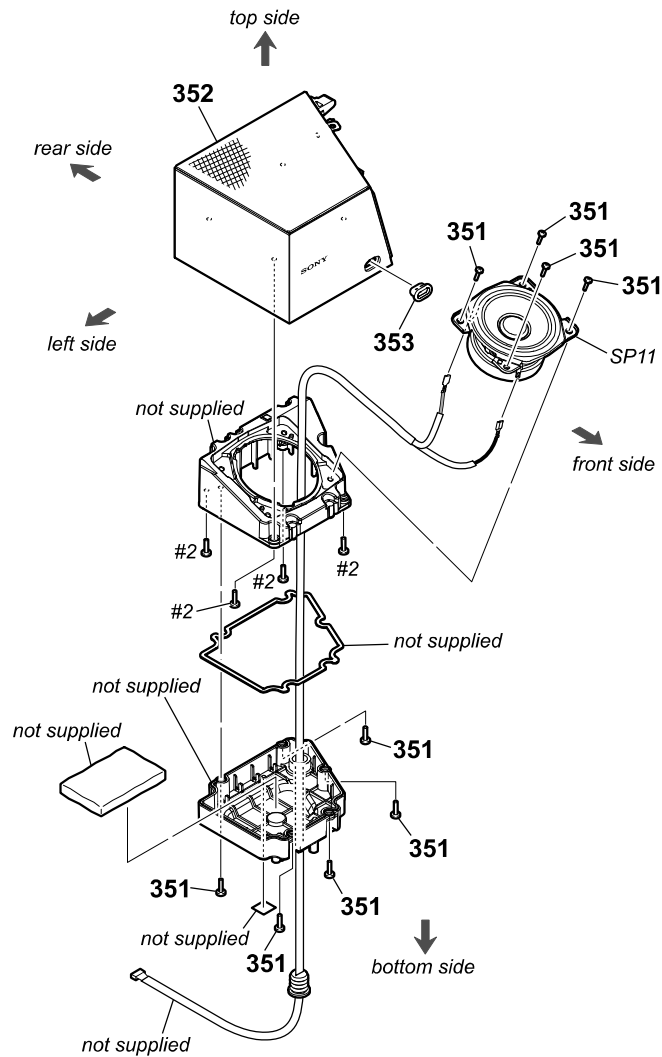
## 4-7. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
301	A-2170-761-A	GRILLE ASSY (Grille frame) (Accessory)		305	2-249-250-00	CLIP (SMALL), CANOE	
302	A-2189-906-A	PANEL (FRONT) ASSY (S) (SV) (Including Magnet, Window)		306	4-691-715-01	CUSHION (FFC DISP)	
* 303	3-378-109-01	CUSHION, SARANET		307	4-537-542-01	STEP SCREW B3X6	
304	4-686-942-01	SHEET (R)		#6	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	



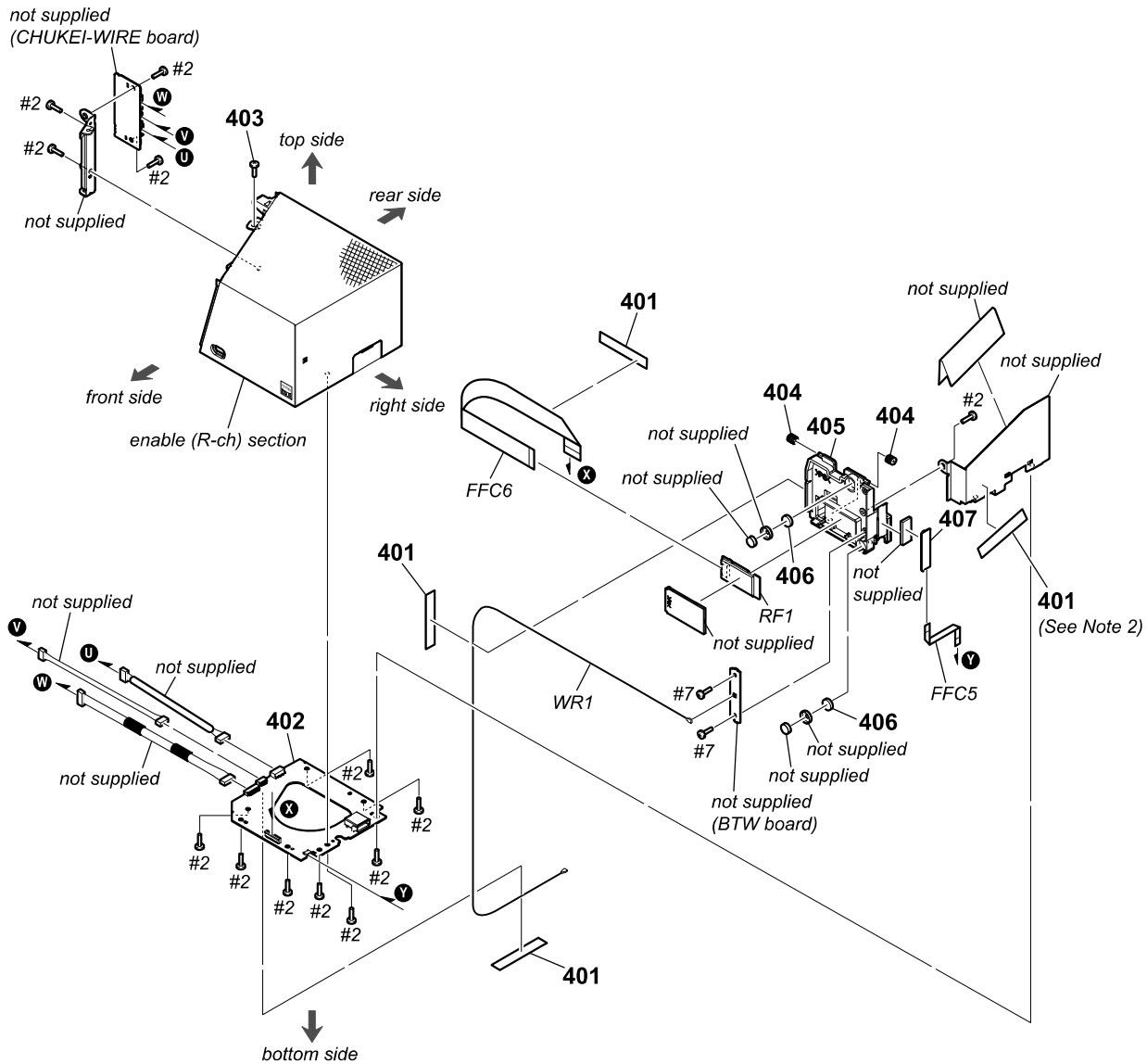
4-8. ENABLE (L-CH) SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
351	4-986-971-02	+BV TAPPING SCREW TYPE-2 3.5 (L = 10.0 mm)		353	4-689-603-01	CATCHER (FLEX-OV)	
352	A-2189-907-A	ENABLE (L) ASSY (S) (SV) (Including Housing, Punching, Base, Cushion) (for L-ch)		SP11	1-859-207-11	LOUDSPEAKER (56 mm)-207-11 (Top L-ch)	
				#2	7-685-646-71	SCREW +BVTP 3X8 TYPE2 IT-3	

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## 4-9. RF MODULATOR SECTION



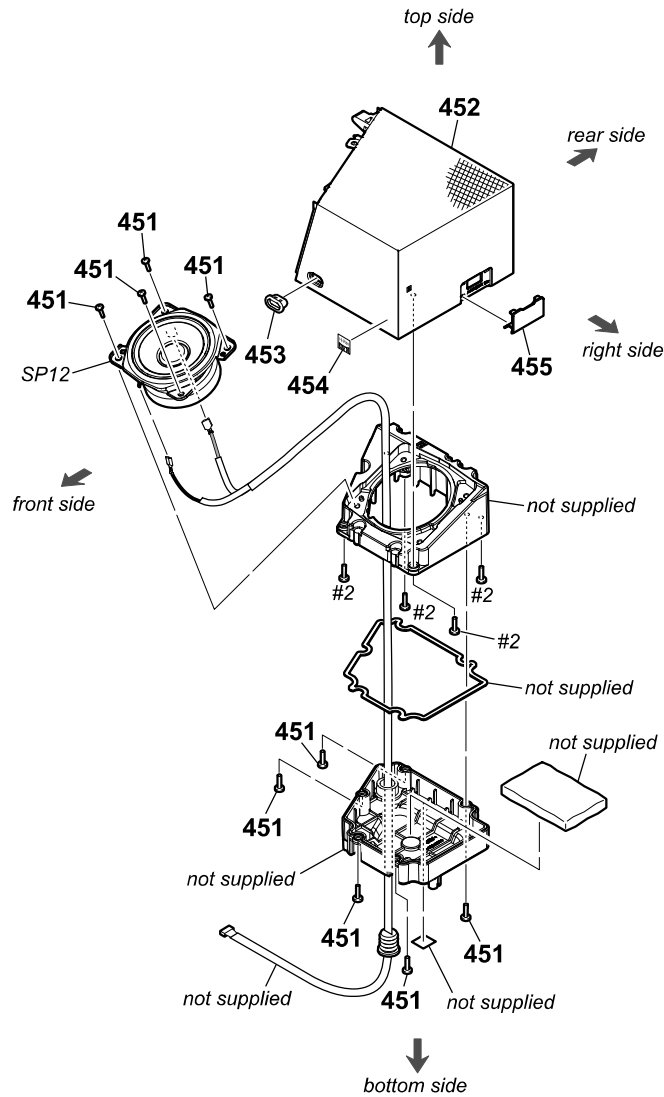
**Note 1:** When the complete NFC board (Ref. No. 407) is replaced, refer to "NFC CONNECTION CHECKING METHOD" on page 6.

**Note 2:** Saranet cushion has been changed into filament tape (sub material) from the midway of production.

Ref. No.	Part No.	Description	Remark
* 401	3-378-109-01	CUSHION, SARANET	
402	A-2167-163-A	USB-CHUKEI BOARD, COMPLETE	
403	3-704-515-22	SCREW (BV/RING) (3.7X8.0 mm)	
404	4-686-804-01	BUSHING (ENABLE)	
405	4-598-536-11	HOLDER (WIRELESS R)	
406	4-686-813-01	CUSHION (YOKE)	
407	A-2092-220-A	NFC BOARD, COMPLETE (See Note 1)	

Ref. No.	Part No.	Description	Remark
FFC5	9-885-218-32	FFC 6P (USB-CHUKEI - NFC)	
FFC6	9-885-218-31	FFC 26P (USB-CHUKEI - RF Modulator)	
RF1	1-492-700-61	RF MODULATOR (WS001)	
WR1	1-971-430-11	HARNESS, COAXIAL (BLACK)	
#2	7-685-646-71	SCREW +BVTP 3X8 TYPE2 IT-3	
#7	7-685-533-19	SCREW +BTP 2.6X6 TYPE2 N-S	

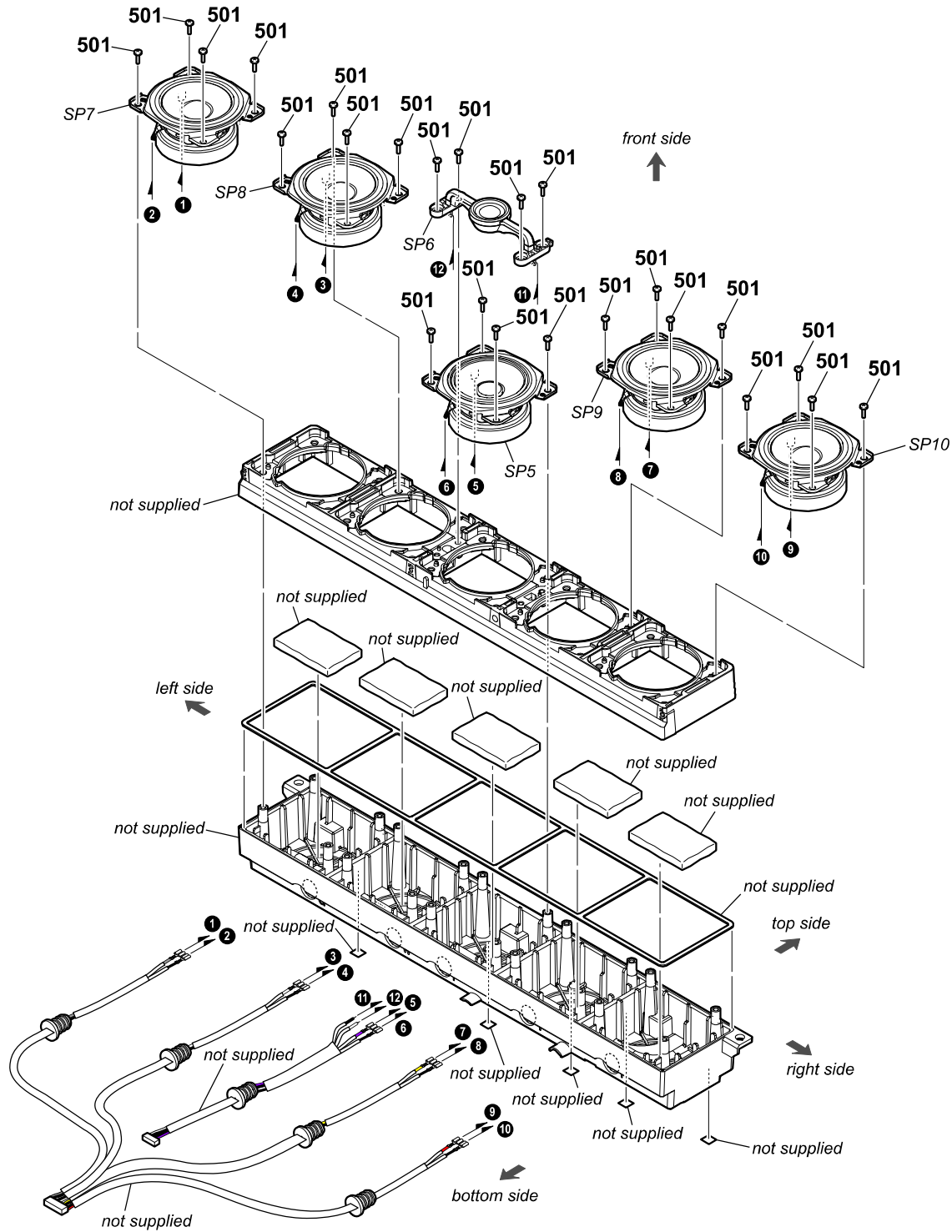
4-10. ENABLE (R-CH) SECTION



<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
451	4-986-971-02	+BV TAPPING SCREW TYPE-2 3.5 (L = 10,0 mm)		455	4-686-805-01	LID (USB)	
452	A-2189-908-A	ENABLE (R) ASSY (S) (SV) (Including Housing, Punching, Base, Cushion) (for R-ch)		SP12	1-859-207-11	LOUDSPEAKER (56 mm)-207-11 (Top R-ch)	
453	4-689-603-01	CATCHER (FLEX-OV)		#2	7-685-646-71	SCREW +BVTP 3X8 TYPE2 IT-3	
454	4-477-465-21	HI-RES LABEL					

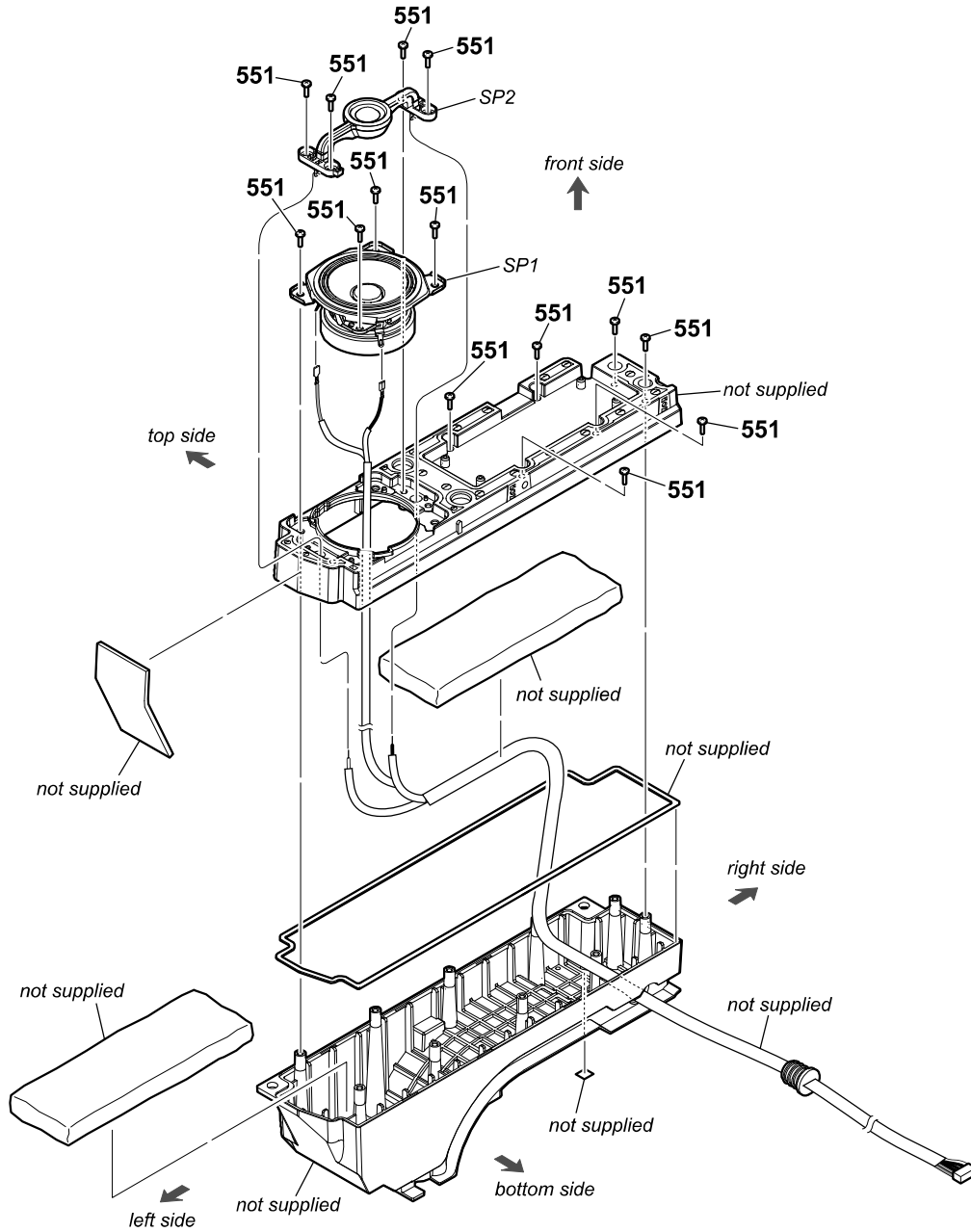
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## 4-11. CENTER SPEAKER SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
501	4-986-971-02	+BV TAPPING SCREW TYPE-2 3.5 (L = 10.0 mm)		SP9	1-859-206-11	LOUDSPEAKER (56 mm)-206-11 (Satellite (Surround back R-ch))	
SP5	1-859-205-11	LOUDSPEAKER (56 mm)-205-11 (Woofer (Center))		SP10	1-859-206-11	LOUDSPEAKER (56 mm)-206-11 (Satellite (Surround R-ch))	
SP6	1-859-217-21	LOUDSPEAKER 14-20 mm, WITH BRIDGE (Tweeter (Center))					
SP7	1-859-206-11	LOUDSPEAKER (56 mm)-206-11 (Satellite (Surround L-ch))					
SP8	1-859-206-11	LOUDSPEAKER (56 mm)-206-11 (Satellite (Surround back L-ch))					

4-12. SPEAKER (L-CH) SECTION

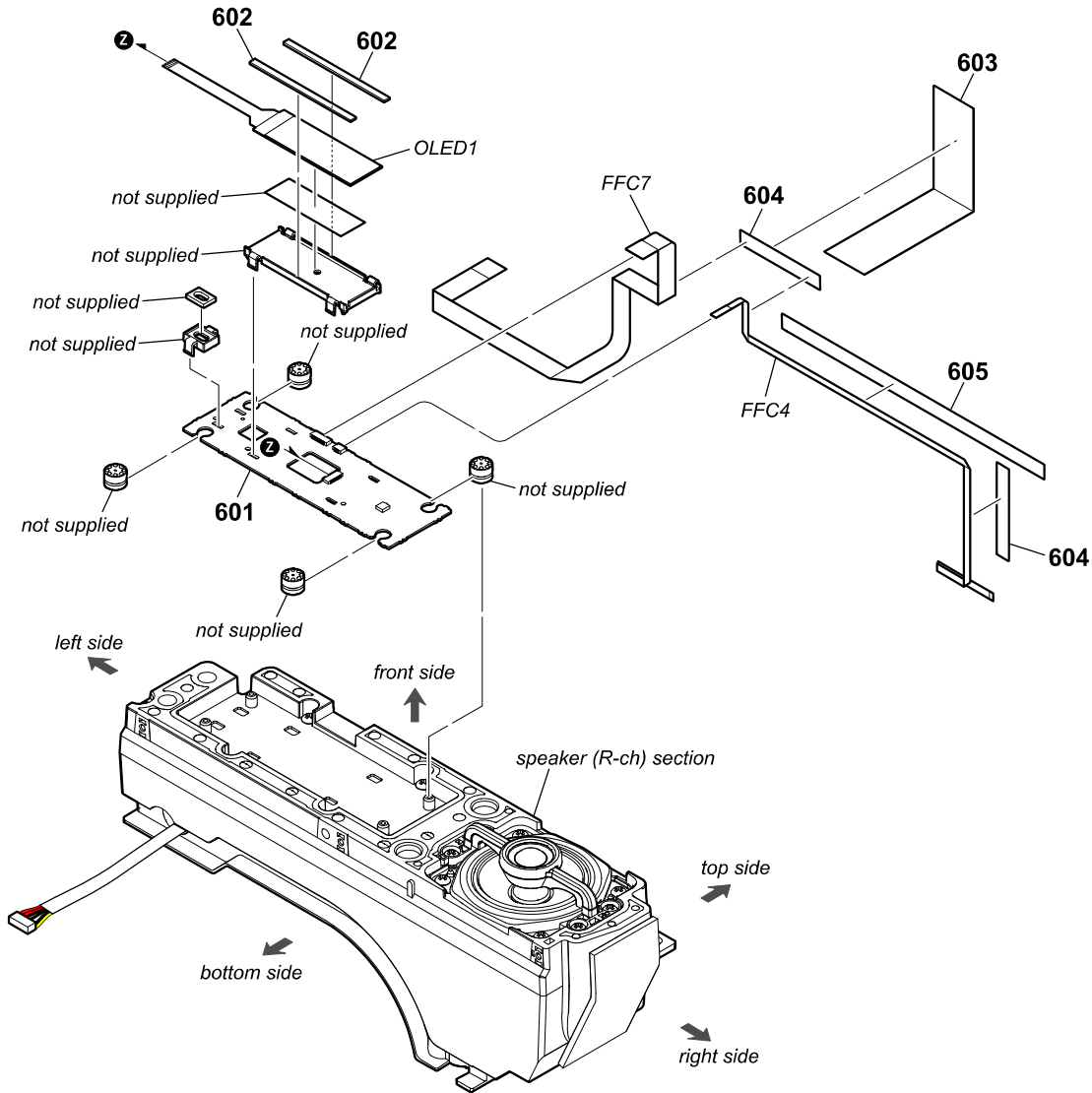


Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
551	4-986-971-02	+BV TAPPING SCREW TYPE-2 3.5 (L = 10.0 mm)		SP2	1-859-217-11	LOUDSPEAKER14-20 mm, WITH BRIDGE	(Tweeter (Front L-ch))
SP1	1-859-205-11	LOUDSPEAKER (56 mm)-205-11	(Woofer (Front L-ch))				



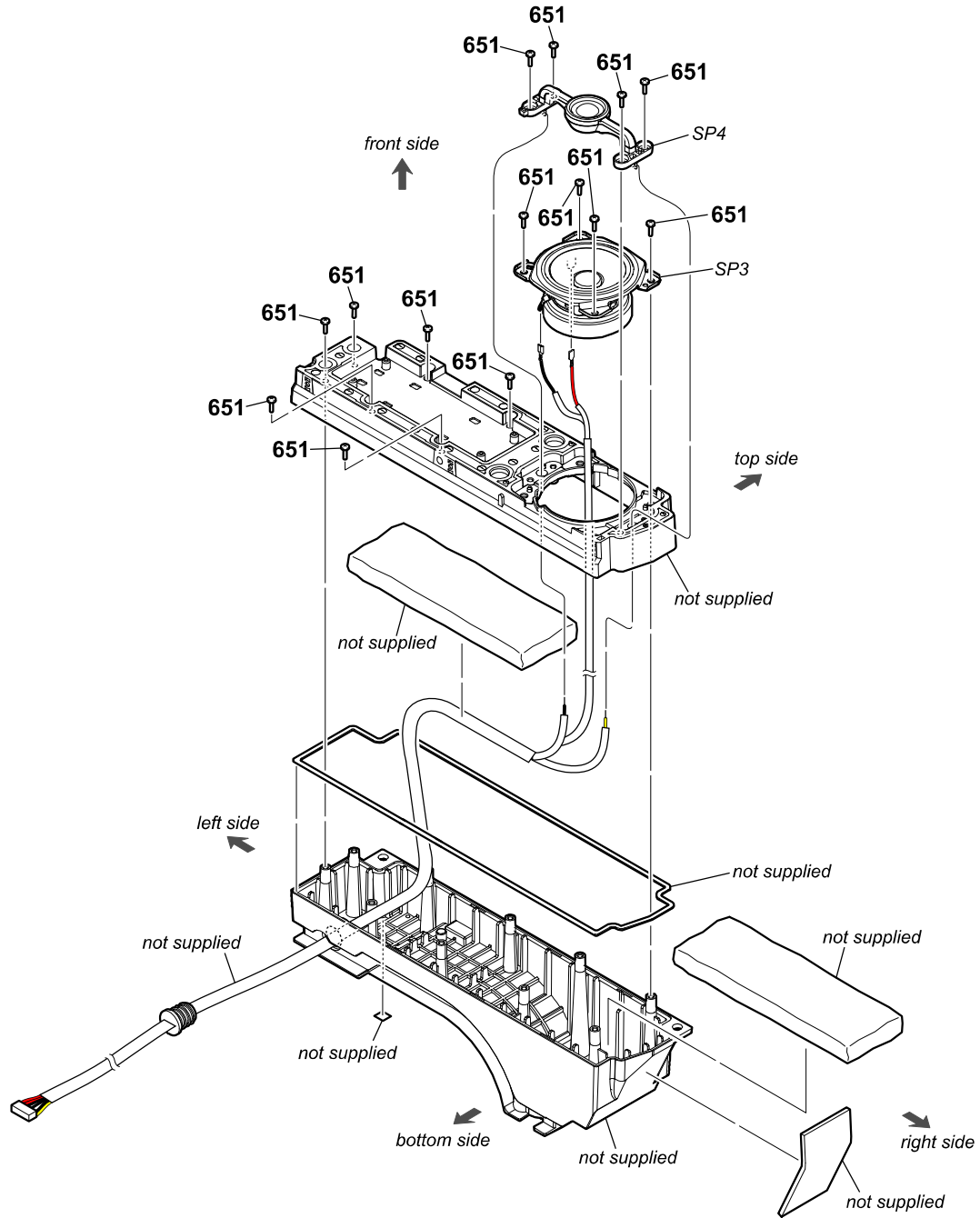
# HT-ST5000

## 4-13. DISPLAY BOARD SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
601	A-2167-161-A	DISPLAY BOARD, COMPLETE		FFC4	9-885-218-39	FFC 6P (DISPLAY - CHUKEI-WIRE)	
602	4-559-873-01	CUSHION (WINDOW)		FFC7	9-885-218-38	FFC 16P (MB-1611 - DISPLAY)	
603	4-691-715-01	CUSHION (FFC DISP)		OLED1	1-812-047-11	OLED DISPLAY	
* 604	3-378-109-01	CUSHION, SARANET					
605	4-691-716-01	CUSHION (FFC NFC)					

4-14. SPEAKER (R-CH) SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
651	4-986-971-02	+BV TAPPING SCREW TYPE-2 3,5 (L = 10,0 mm)		SP4	1-859-217-11	LOUDSPEAKER14-20 mm, WITH BRIDGE	
SP3	1-859-205-11	LOUDSPEAKER (56 mm)-205-11	(Woofer (Front R-ch))				(Tweeter (Front R-ch))

**HT-ST5000****SECTION 5  
ACCESSORIES**

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
	4-687-836-11	STARTUP GUIDE (ENGLISH)	
	4-687-836-21	STARTUP GUIDE (SPANISH, FRENCH)	
	4-687-838-13	MANUAL, INSTRUCTION (Operating Instructions) (ENGLISH, SPANISH, FRENCH)	
901	A-2170-761-A	GRILLE ASSY (Grille frame)	
902	1-493-268-11	REMOTE COMMANDER (RMT-AH310U)	(Remote control)
904	1-849-300-11	CABLE WITH CONNECTOR (HDMI CABLE) (supports the specification equal to Premium High Speed HDMI cable with Ethernet)	

