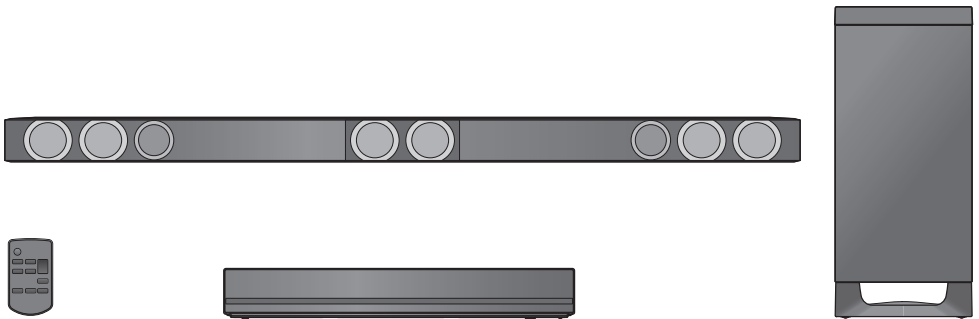




Operating Instructions

Home Theater Audio System

Model No. SC-HTB770



Thank you for purchasing this product.
Please read these instructions carefully before using this product, and save this manual for future use.

Model number suffix "EB" denotes UK model.

Safety precautions

WARNING

Unit

- To reduce the risk of fire, electric shock or product damage,
 - Do not expose this unit to rain, moisture, dripping or splashing.
 - Do not place objects filled with liquids, such as vases, on this unit.
 - Use only the recommended accessories.
 - Do not remove covers.
 - Do not repair this unit by yourself. Refer servicing to qualified service personnel.

AC mains lead

- To reduce the risk of fire, electric shock or product damage,
 - Ensure that the power supply voltage corresponds to the voltage printed on this unit.
 - Insert the mains plug fully into the socket outlet.
 - Do not pull, bend, or place heavy items on the lead.
 - Do not handle the plug with wet hands.
 - Hold onto the mains plug body when disconnecting the plug.
 - Do not use a damaged mains plug or socket outlet.
- The mains plug is the disconnecting device. Install this unit so that the mains plug can be unplugged from the socket outlet immediately.

Button-type battery (Lithium battery)

- Risk of fire, explosion and burns. Do not recharge, disassemble, heat above 60 °C or incinerate.
- Keep the Button-Type battery out of the reach of children. Never put Button-Type battery in mouth. If swallowed call your doctor.

CAUTION

Unit

- Do not place sources of naked flames, such as lighted candles, on this unit.
- This unit may receive radio interference caused by mobile telephones during use. If such interference occurs, please increase separation between this unit and the mobile telephone.
- This unit is intended for use in moderate climates.

Placement

- Place this unit on an even surface.
- To reduce the risk of fire, electric shock or product damage,
 - Do not install or place this unit in a bookcase, built-in cabinet or in another confined space. Ensure this unit is well ventilated.
 - Do not obstruct this unit's ventilation openings with newspapers, tablecloths, curtains, and similar items.
 - Do not expose this unit to direct sunlight, high temperatures, high humidity, and excessive vibration.

Button-type battery (Lithium battery)

- Danger of explosion if battery is incorrectly replaced. Replace only with the type recommended by the manufacturer.
- Insert with poles aligned.
- Mishandling of batteries can cause electrolyte leakage and may cause a fire.
 - Remove the battery if you do not intend to use the remote control for a long period of time. Store in a cool, dark place.
 - Do not heat or expose to flame.
 - Do not leave the battery(ies) in a car exposed to direct sunlight for a long period of time with doors and windows closed.
- When disposing the batteries, please contact your local authorities or dealer and ask for the correct method of disposal.

Caution for AC Mains Lead



(For the AC mains plug of three pins)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.

A 5-ampere fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark  or the BSI mark  on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local dealer.

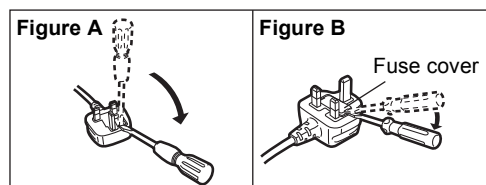
Before use

Remove the connector cover.

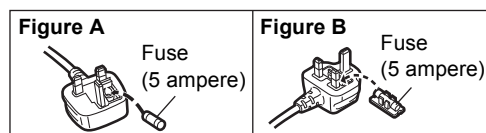
How to replace the fuse

The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below. Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.



2. Replace the fuse and close or attach the fuse cover.



About Bluetooth®

Panasonic bears no responsibility for data and/or information that is compromised during a wireless transmission.

Frequency band used

This system uses the 2.4 GHz frequency band.

Certification of this device

- This system conforms to frequency restrictions and has received certification based on frequency laws. Thus, a wireless permit is not necessary.
- The action below are punishable by law in some countries:
 - Taking apart or modifying the unit.
 - Removing specification indications.

Restrictions of use

- Wireless transmission and/or usage with all Bluetooth® equipped devices is not guaranteed.
- All devices must conform to standards set by Bluetooth SIG, Inc.
- Depending on the specifications and settings of a device, it can fail to connect or some operations can be different.
- This system supports Bluetooth® security features. But depending on the operating environment and/or settings, this security is possibly not sufficient. Transmit data wirelessly to this system with caution.
- This system cannot transmit data to a Bluetooth® device.

Range of use

Use this device at a maximum range of 10 m.

The range can decrease depending on the environment, obstacles or interference.

Interference from other devices

- This system may not function properly and troubles such as noise and sound jumps may arise due to radio wave interference if the main unit is located too close to other Bluetooth® devices or the devices that use the 2.4 GHz band.
- This system may not function properly if radio waves from a nearby broadcasting station, etc. are too strong.

Intended usage

- This system is for normal, general use only.
- Do not use this system near equipment or in an environment that is sensitive to radio frequency interference (example: airports, hospitals, laboratories, etc.).

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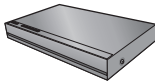
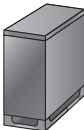
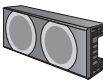
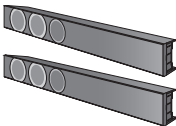
Reference

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- The illustrations shown may differ from your unit.
- These operation instructions are applicable to model SC-HTB770 for variety of regions.
Unless otherwise indicated, illustrations in these operating instructions are of the model for the United Kingdom and Ireland.
- Operations in this operating instructions are described mainly with the remote control, but you can perform the operations on the main unit if the controls are the same.






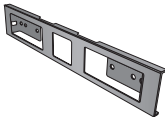
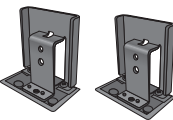

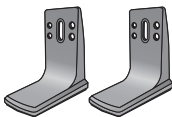

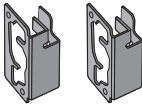
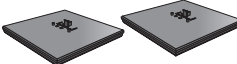


Supplied items

This system (SC-HTB770)

<input type="checkbox"/> 1 Main unit (SU-HTB770) 	<input type="checkbox"/> 1 Active subwoofer (SB-HWA770) 	<input type="checkbox"/> 1 Centre speaker (SB-HTB770) 	<input type="checkbox"/> 2 Front speakers (SB-HTB570) 
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Accessories

Check the supplied accessories before using this system.

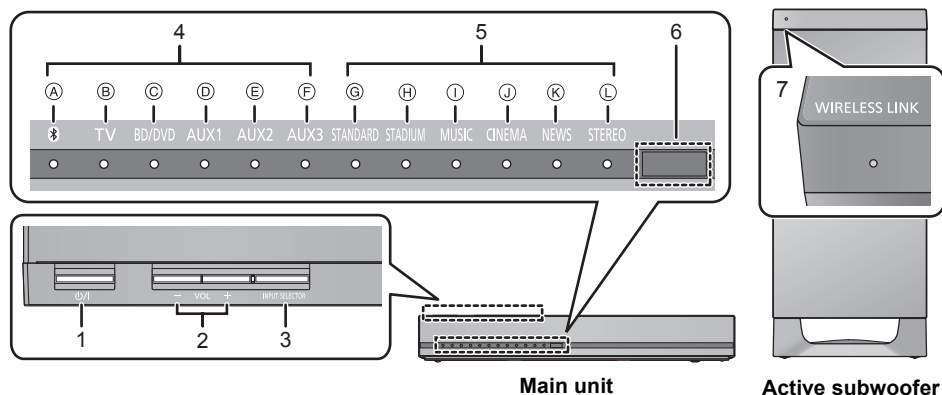
<input type="checkbox"/> 1 Remote control (with a battery) (N2QAYC000083) 	<input type="checkbox"/> AC mains lead 2 For the United Kingdom and Ireland (K2CT2YY00097) 	<input type="checkbox"/> 2 For Continental Europe (K2CQ2YY00119) 	<input type="checkbox"/> 2 For Australia and New Zealand (K2CJ2YY00093) 
<input type="checkbox"/> 3 Speaker cables (REE1789: RED) (REE1790: WHITE) Length: 3 m (REE1791: GREEN) Length: 2 m 	<input type="checkbox"/> 1 Metal bracket (RML0760) 	<input type="checkbox"/> 2 Stand necks (RGK2444) 	<input type="checkbox"/> 2 Support legs (RGK2464) 
<input type="checkbox"/> 2 Leg stands (RGK2463) 	<input type="checkbox"/> 2 Side caps (RGK2445: R) (RGK2446: L) 	<input type="checkbox"/> 2 Hook brackets (RML0763) 	<input type="checkbox"/> 2 Speaker bases (RGK2465) 
<input type="checkbox"/> 6 Screws (XYN5+J14FJK) 	<input type="checkbox"/> 2 Speaker feet (RKAX0042-K) 		



- Product numbers are correct as of February 2013. These may be subject to change.
- The supplied AC mains lead is for use with this system only.
Do not use it with other equipment. Also, do not use cords from other equipment with this system.

Control reference guide

This system (Front)



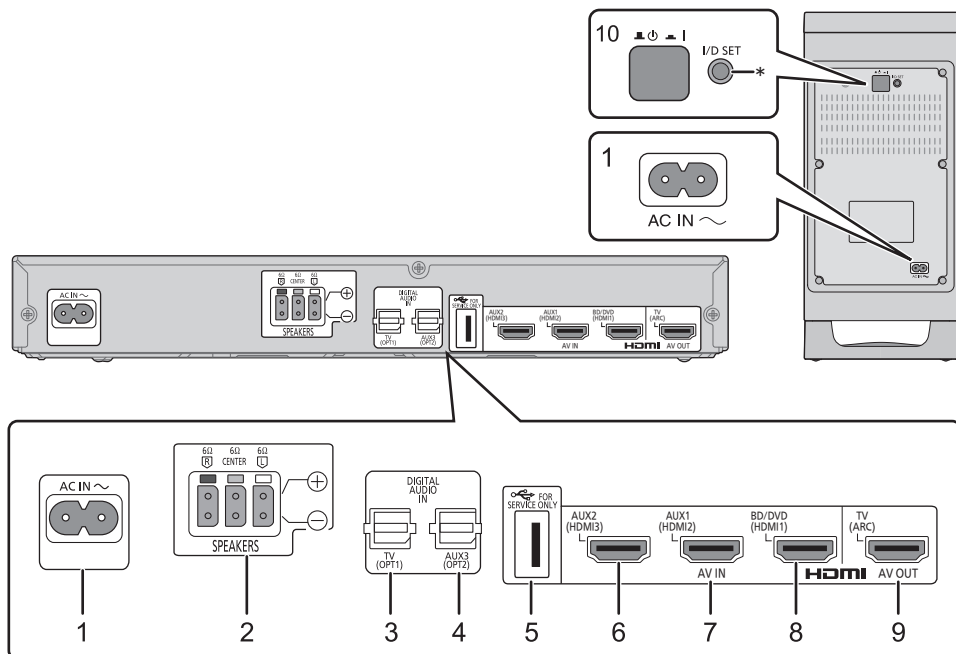
- 1 **Standby/on switch (⏻/⏻)**
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.
- 2 Adjust the volume of this system
- 3 Select the input source
“TV” → “BD/DVD” → “AUX1”
↑ “Ⓜ” ← “AUX3” ← “AUX2” ← ↓
- 4 Input selector indicators*1
 - (A) Bluetooth® indicator
Lights blue when the Bluetooth® device is the audio source
 - (B) TV indicator
Lights green when the TV is the audio source
 - (C) BD/DVD indicator
Lights amber when the device connected to the BD/DVD terminal is the audio source
 - (D) AUX1 indicator
Lights amber when the device connected to the AUX1 terminal is the audio source
 - (E) AUX2 indicator
Lights amber when the device connected to the AUX2 terminal is the audio source
 - (F) AUX3 indicator
Lights amber when the device connected to the AUX3 terminal is the audio source
- 5 Sound mode indicators*1
 - (G) STANDARD indicator
Lights when STANDARD is the current sound mode
 - (H) STADIUM indicator*2
Lights when STADIUM is the current sound mode
 - (I) MUSIC indicator*2
Lights when MUSIC is the current sound mode
 - (J) CINEMA indicator
Lights when CINEMA is the current sound mode
 - (K) NEWS indicator
Lights when NEWS is the current sound mode
 - (L) STEREO indicator
Lights when STEREO is the current sound mode
- 6 Remote control signal sensor (⇒ 8)
- 7 WIRELESS LINK indicator (⇒ 28)

*1 The indicators will also blink in various conditions. (⇒ 37)

*2 The indicator blinks for 5 sec when the main unit detects an audio format.

To manually verify the current audio format and the corresponding indicators, refer to page 32 (Audio format indicator).

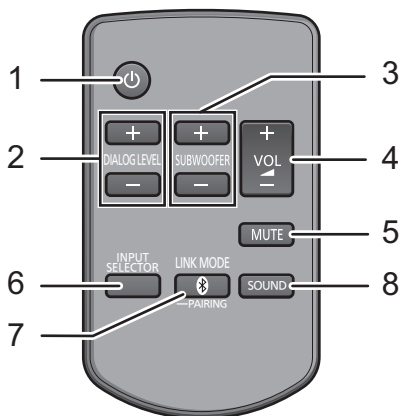
This system (Rear)



- | | |
|-----------------------------------|---|
| 1 AC IN terminal (⇒ 27) | 6 AUX2 terminal (⇒ 26) |
| 2 Speaker terminals (⇒ 27) | 7 AUX1 terminal (⇒ 26) |
| 3 TV terminal (⇒ 25) | 8 BD/DVD terminal (⇒ 26) |
| 4 AUX3 terminal (⇒ 26) | 9 HDMI OUT terminal (ARC compatible) (⇒ 25) |
| 5 USB port (for service use only) | 10 Active subwoofer on/off button (⇒ 28) |

* The I/D SET button is only used when the main unit is not paired with the active subwoofer. (⇒ 36)

Remote control

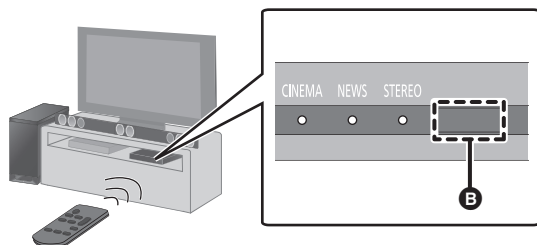


- 1 Turn the main unit on or off (⇒ 29)
- 2 Adjust the dialog effect level (⇒ 29)
- 3 Adjust the output level of the active subwoofer (bass sound) (⇒ 29)
- 4 Adjust the volume of this system (⇒ 29)
- 5 Mute the sound (⇒ 29)
- 6 Select the input source (⇒ 29)
 “TV” → “BD/DVD” → “AUX1”
 ↑ “ ” ← “AUX3” ← “AUX2” ←
- 7 Select the Bluetooth® device as the source (⇒ 29)
- 8 Select the sound mode (⇒ 30)
 “STANDARD” → “STADIUM” → “MUSIC”
 ↑ “STEREO” ← “NEWS” ← “CINEMA” ←

■ Remote control operation range

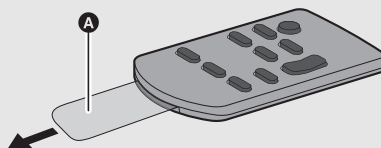
The remote control signal sensor is located on the main unit.

- Use the remote control within the correct operation range.



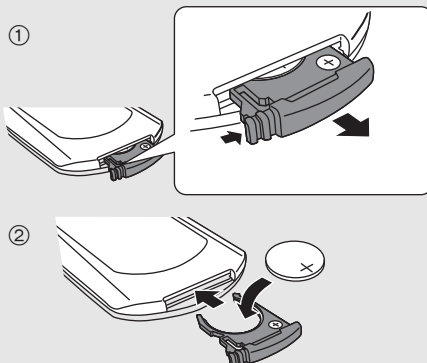
■ Before using for the first time

Remove the insulation sheet **A**.



■ To replace a button-type battery

Battery type: CR2025 (Lithium battery)



- Set the button-type battery with its (+) mark facing upward.
- Keep the button-type battery out of reach of children to prevent swallowing.

⑥ Remote control signal sensor

● Operation range

Distance: Within approx. 7 m
 directly in front

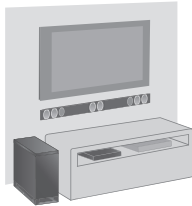
Angle: Approx. 30° left and right

Step 1 Selecting the placement method

•Choose a placement method that suits you best.

When attaching the speakers to a wall

Place the speakers horizontally



Page 11

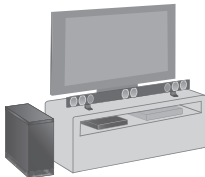
Place the front speakers vertically



Page 14

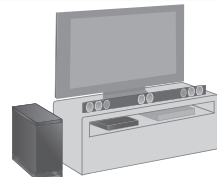
When placing the speakers on a table

Place the speakers using the leg stands



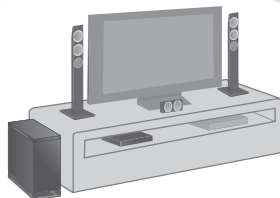
Page 18

Place the speakers using the support legs and speaker feet



Page 19

Place the front speakers using the speaker bases



Page 20

Before use

Getting started

Caution

- This system is to be used only as indicated in these instructions. Failure to do so may lead to damage to the amplifier and/or the speakers, and may result in the risk of fire. Consult a qualified service person if damage has occurred or if you experience a sudden change in performance.
- Do not attempt to attach the speakers to a wall using methods other than those described in this manual.

The speaker system

- Use a screwdriver (+) for assembling the speakers.
- Do not hold the speakers in one hand to avoid injury, you may drop the speakers when carrying them.

■ When attaching the speakers to a wall

The wall or pillar on which the speakers are to be attached should be capable of supporting 33 kg per screw. Consultation with a qualified installation specialist is recommended when attaching the speakers to a wall. Improper attachment may result in damage to the wall and speakers, and personal injury.

■ When placing the speakers in front of the TV

The speakers may block or interfere with the TV's various sensors (C.A.T.S. (Contrast Automatic Tracking System) sensor, remote control sensor, etc.) and the 3D Eyewear transmitters on a 3D compatible TV.

● If the leg stands are being used

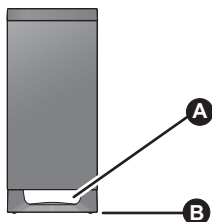
Change the height of the leg stands and/or move the speakers further away from the TV. If the TV still does not function correctly, try removing the leg stands.

● If the leg stands are not used

Move the speakers further away from the TV. If the TV still does not function properly, try placing them beside the TV (⇒ 9).

The active subwoofer

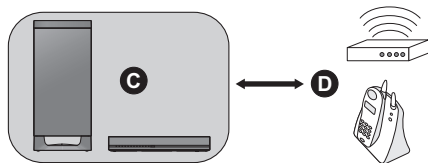
When carrying the active subwoofer



- A** Do not hold the active subwoofer from this opening.
The parts inside may get damaged.
- B** Always hold the bottom of the active subwoofer when moving it.

Wireless interference

To avoid interference, maintain the following distances between the main unit/active subwoofer and other electronic devices that use the same radio frequency (2.4 GHz band).



- C** Main unit/active subwoofer
- D** Wireless router, cordless phone and other electronic devices: approx. 2 m



- Place the active subwoofer within a few meters of the main unit and in a horizontal position with the top panel facing upward.
- Do not use the main unit or the active subwoofer in a metal cabinet.
- Placing the active subwoofer too close to the walls and corners can result in excessive bass. Cover walls and windows with thick curtains.
- If irregular colouring occurs on your TV, turn the TV off for about 30 minutes. If it persists, move the speakers further away from the TV.
- Keep magnetised items away. Magnetised cards, watches, etc., can be damaged if placed too close to the active subwoofer and the speakers.

Step 2 Assembling the speakers

When attaching the speakers to a wall



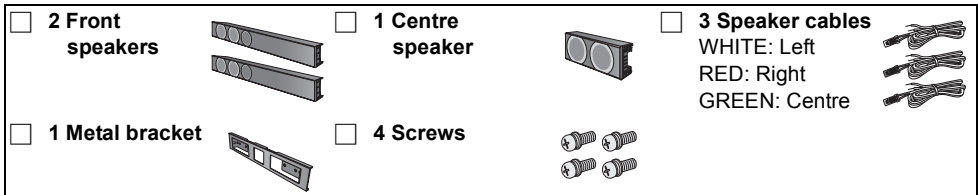
Place the speakers horizontally

The speakers can be wall mounted by drilling screws into the wall, etc.

Make sure that the screw used and the wall are strong enough to support the weight of at least 33 kg.

The screws and other items are not supplied as the type and size will vary with each installation.

• For details about the required screws, refer to the diagram below the step "Drive a screw into the wall." (⇒ 12).

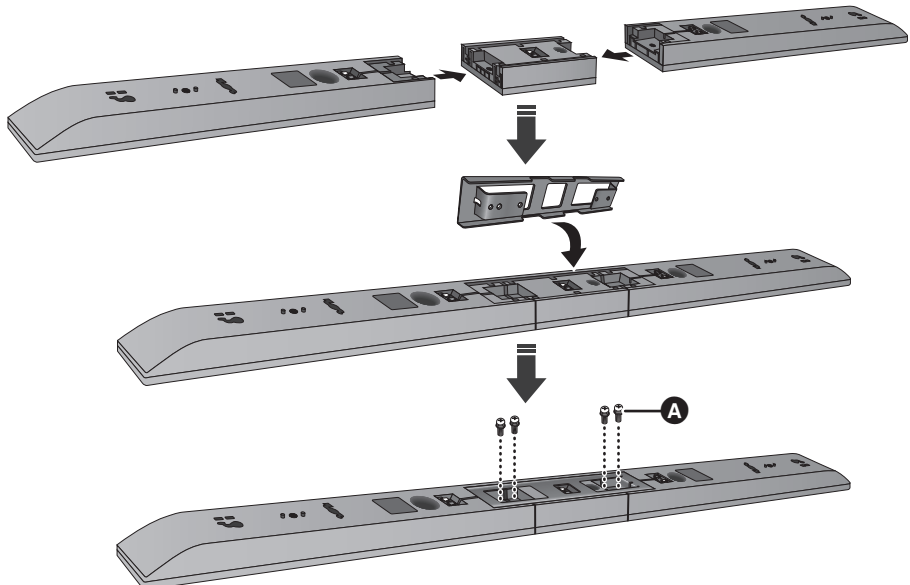


• For a safety measure to prevent the speakers from falling, refer to page 23.

• To prevent damage or scratches, lay down a soft cloth and perform the assembly on it.

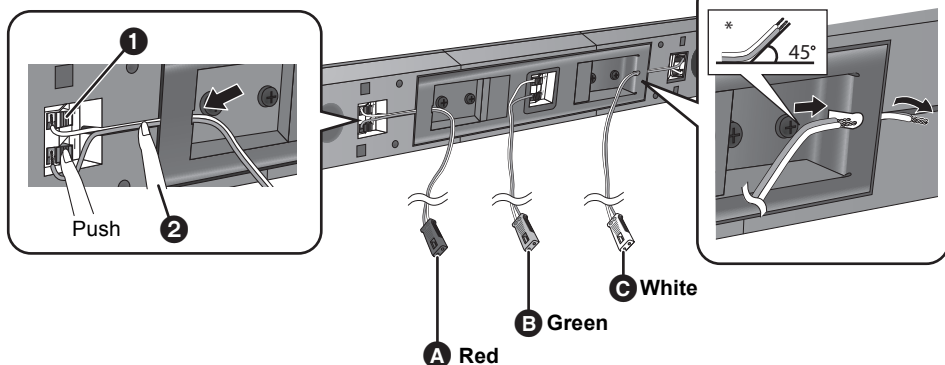
1 Assemble the speakers.

- There is no left and right for the centre speaker.
- The two front speakers are interchangeable.
- Keep the screws out of reach of children to prevent swallowing.



- A** Screw (supplied)
- Tighten securely.

2 Connect the speaker cables.



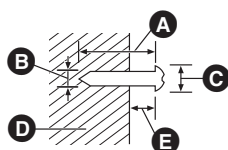
- 1 Insert the wire fully.
+: White
-: Blue line
 - Insert the wire fully, taking care not to insert beyond the wire insulation.
- 2 Press into the groove.

- A Red**
A Right speaker connector
B Centre speaker connector
C Left speaker connector

* If you have difficulty inserting the cable, try straightening the speaker cable and then bending the cable about 20 mm from the tip, at an angle of approx. 45° (as illustrated above).

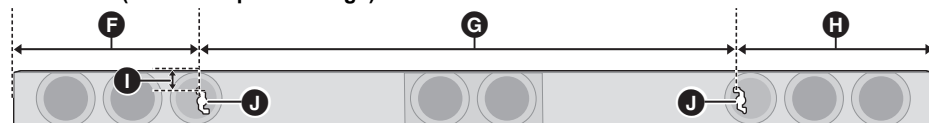
3 Drive a screw into the wall.

- Use the measurements indicated below to identify the screwing positions on the wall.
- Leave at least 20 mm of space above and on each side of the speaker to allow enough space for fitting the speaker.
- Keep the screws out of reach of children to prevent swallowing.



- A** At least 30 mm
B Ø4.0 mm
C Ø7.0 mm to Ø9.4 mm
D Wall or pillar
E 5.5 mm to 6.5 mm

Front view (semi-transparent image)

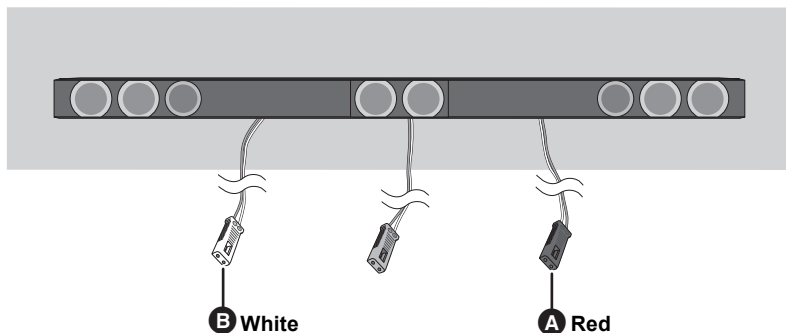
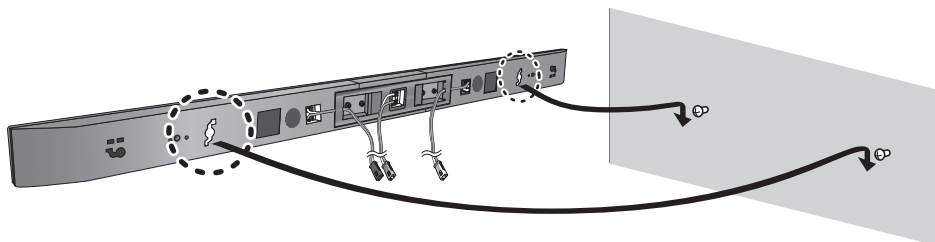


- F** 238 mm **G** 745 mm **H** 248 mm **I** 20 mm
J Wall mounting hole

4 Wall mount the speakers: Fit the speaker securely onto the screw(s).

Red connector: The speaker attached to the **red** connector cable is to be placed on the **right** side.

White connector: The speaker attached to the **white** connector cable is to be placed on the **left** side.



- A** Right speaker connector
- B** Left speaker connector

DO		DO NOT	
	<ul style="list-style-type: none"> Move the speaker so that the screw is in this position. 		<ul style="list-style-type: none"> In this position, the speaker will likely fall if moved to the left or right.

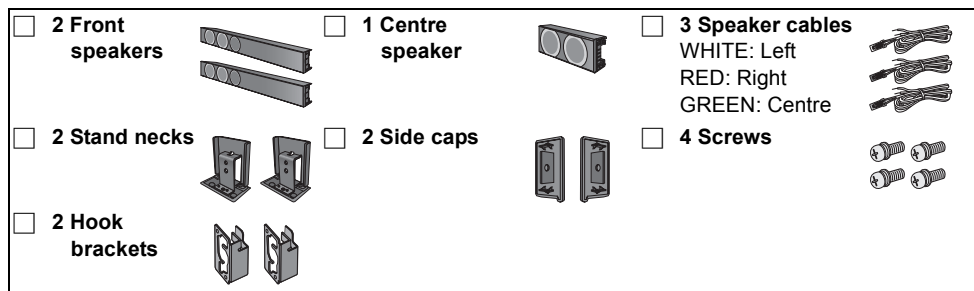


Place the front speakers vertically

The speakers can be wall mounted by drilling screws into the wall, etc.

Make sure that the screw used and the wall are strong enough to support the weight of at least 33 kg. The screws and other items are not supplied as the type and size will vary with each installation.

• For details about the required screws, refer to the diagram below the step "Drive a screw into the wall." (⇒ 16).



• For a safety measure to prevent the speakers from falling, refer to page 23.

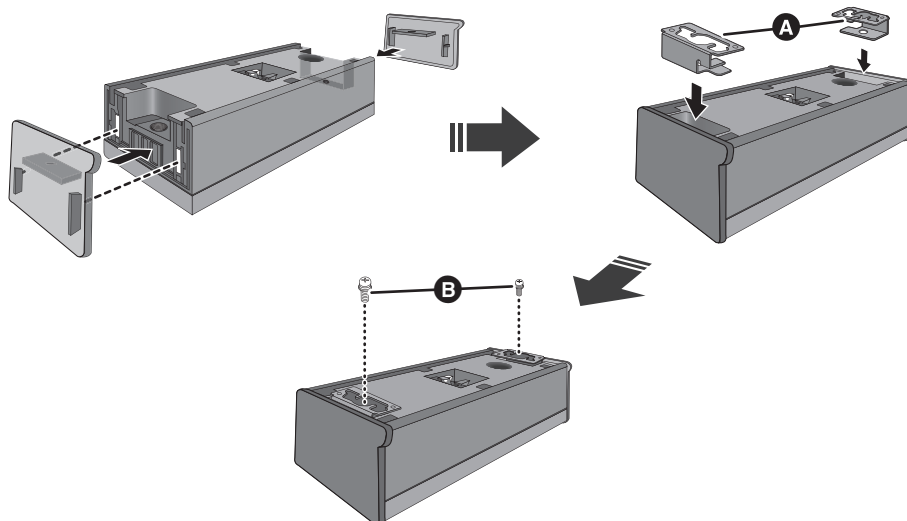
• To prevent damage or scratches, lay down a soft cloth and perform the assembly on it.

1

Assemble the centre speaker:

Attach the side caps and hook brackets to the speaker.

- There is no left and right for the centre speaker.
- Keep the screws out of reach of children to prevent swallowing.



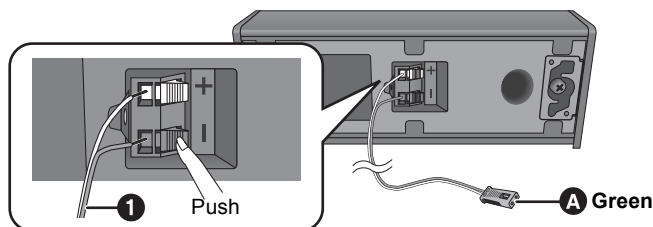
A Hook bracket (supplied)

B Screw (supplied)

- Tighten securely.

2 Assemble the centre speaker: Connect the speaker cable.

- Insert the wire fully, taking care not to insert beyond the wire insulation.

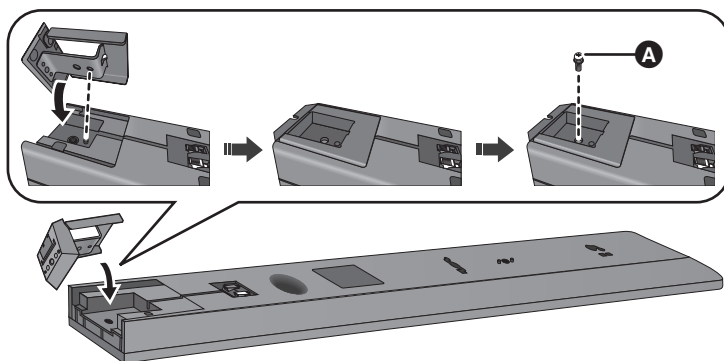


A Centre speaker connector

- Insert the wire fully.
+: White
-: Blue line

3 Assemble the front speakers: Attach the stand neck.

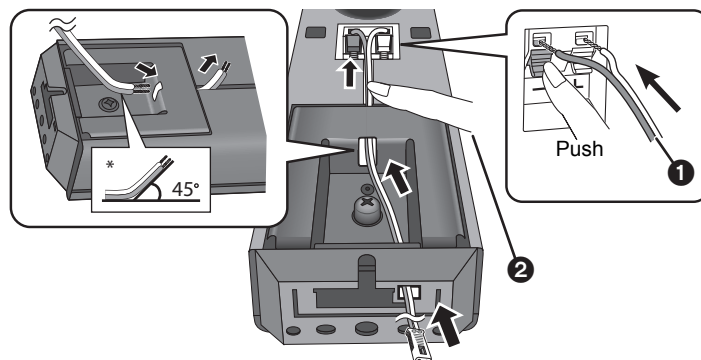
- The two front speakers are interchangeable.
- Keep the screws out of reach of children to prevent swallowing.



A Screw (supplied)

- Tighten securely.

4 Assemble the front speakers: Connect the speaker cables.



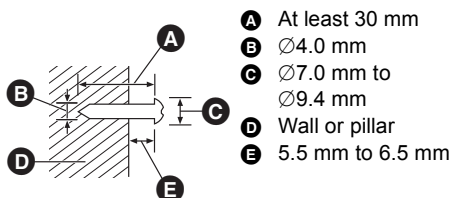
- Insert the wire fully.
+: White
-: Blue line
• Insert the wire fully, taking care not to insert beyond the wire insulation.
- Press into the groove.

* If you have difficulty inserting the cable, try straightening the speaker cable and then bending the cable about 20 mm from the tip, at an angle of approx. 45° (as illustrated above).

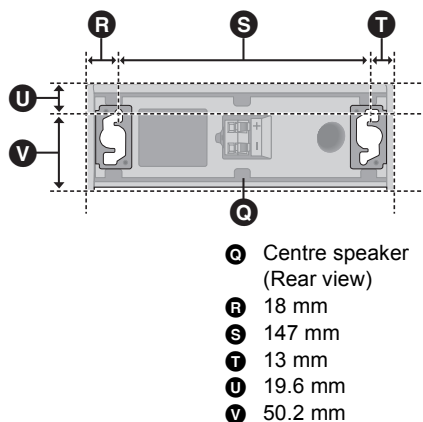
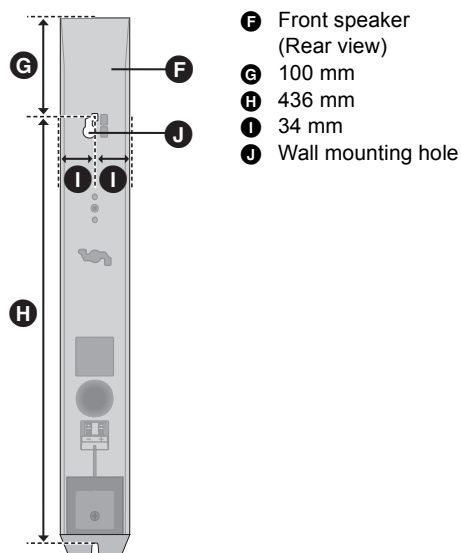
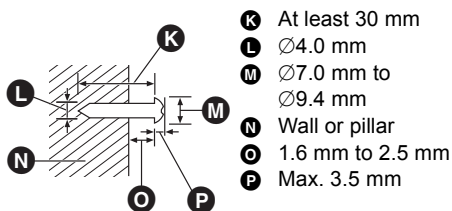
5 Drive a screw into the wall.

- Use the measurements indicated below to identify the screwing positions on the wall.
- Leave at least 20 mm of space above and on each side of the speaker to allow enough space for fitting the speaker.
- Keep the screws out of reach of children to prevent swallowing.

Front speakers



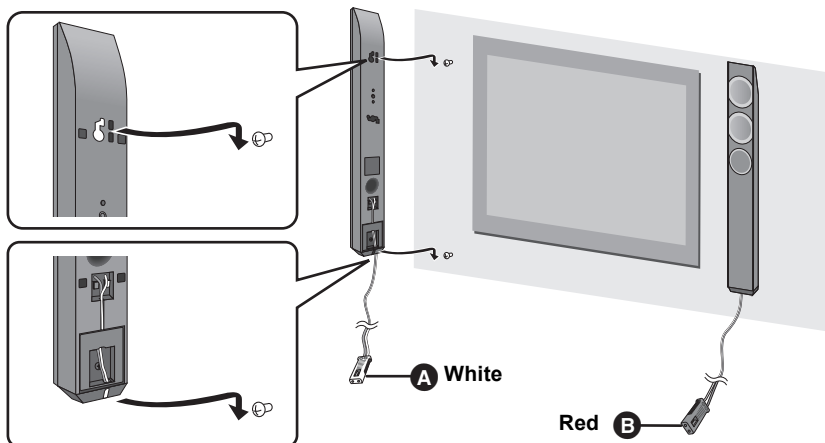
Centre speaker



6 Fit the speaker(s) securely onto the screw(s).

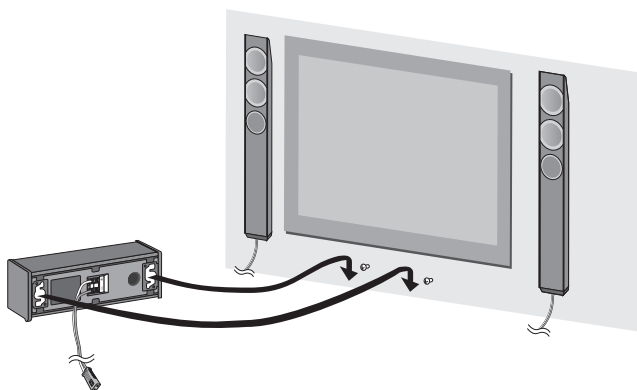
Red connector: The speaker attached to the **red** connector cable is to be placed on the **right** side.





White connector: The speaker attached to the **white** connector cable is to be placed on the **left** side.



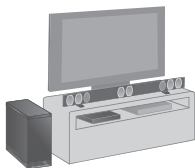
A Left speaker connector

B Right speaker connector

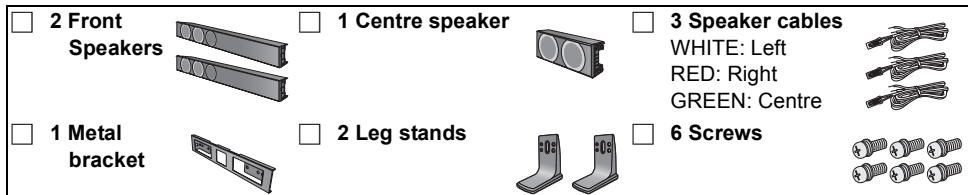


DO		DO NOT	
Front speaker	Centre speaker	Front speaker	Centre speaker
			
<ul style="list-style-type: none"> Move the speaker so that the screw is in this position. 		<ul style="list-style-type: none"> In this position, the speaker will likely fall if moved to the left or right. 	

When placing the speakers on a table



Place the speakers using the leg stands



- For a safety measure to prevent the speakers from falling, refer to page 23.
- To prevent damage or scratches, lay down a soft cloth and perform the assembly on it.

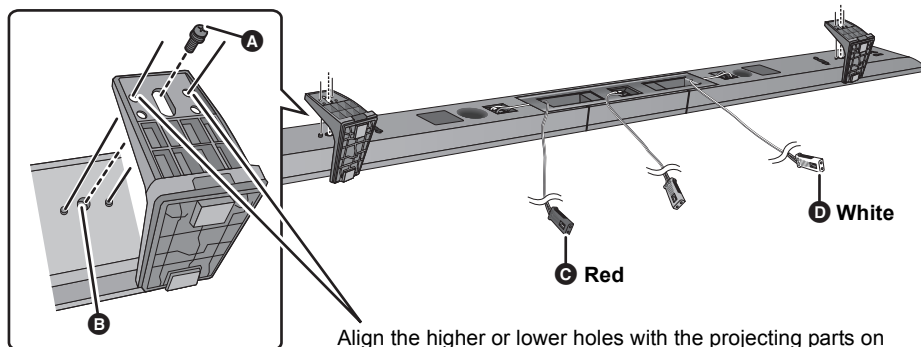
1 Assemble the speakers following steps 1 and 2 of “Place the speakers horizontally” (⇒ 11, 12).

2 Attach the leg stands.

Red connector: With the speaker facing down, the speaker attached to the **red** connector cable is to be placed on the **left** side.

White connector: With the speaker facing down, the speaker attached to the **white** connector cable is to be placed on the **right** side.

- Keep the screws out of reach of children to prevent swallowing.

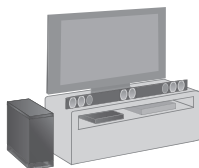


Align the higher or lower holes with the projecting parts on the speaker.

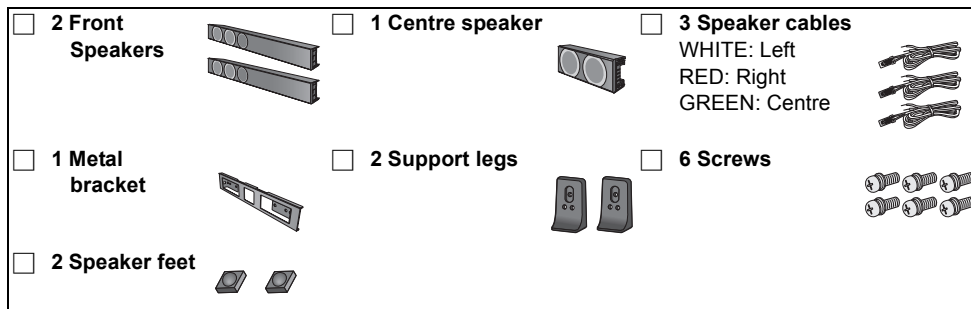
- By changing the position that the stand is attached to the projecting parts, the height can be adjusted by 9 mm.

- A** Screw (supplied)
- Tighten securely.
- B** Screw hole

- C** Right speaker connector
- D** Left speaker connector



Place the speakers using the support legs and speaker feet



- For a safety measure to prevent the speakers from falling, refer to page 23.
- To prevent damage or scratches, lay down a soft cloth and perform the assembly on it.

1 Assemble the speakers following steps 1 and 2 of “Place the speakers horizontally” (⇒ 11, 12).

2 Attach the support legs and speaker feet.

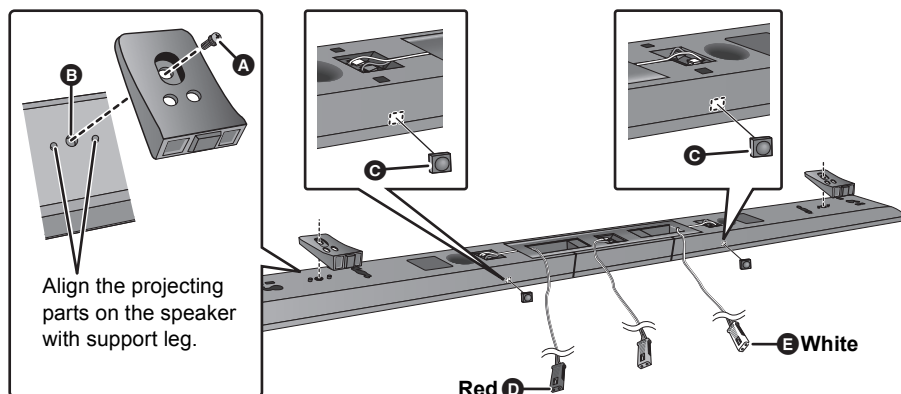
Red connector:

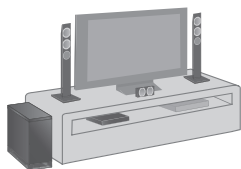
With the speaker facing down, the speaker attached to the **red** connector cable is to be placed on the **left** side.

White connector:

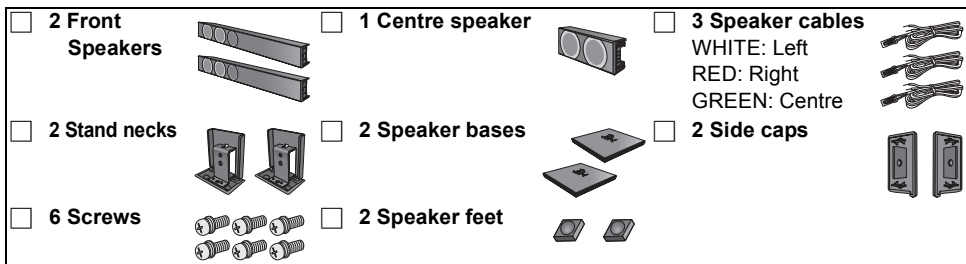
With the speaker facing down, the speaker attached to the **white** connector cable is to be placed on the **right** side.

- Keep the screws and the speaker feet out of reach of children to prevent swallowing.





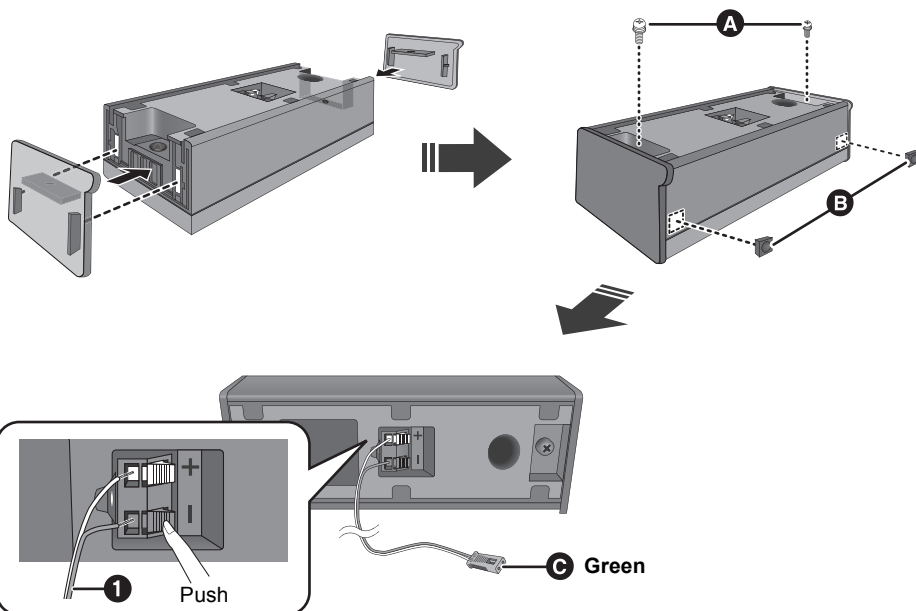
Place the front speakers using the speaker bases



- For a safety measure to prevent the speakers from falling, refer to page 23.
- To prevent damage or scratches, lay down a soft cloth and perform the assembly on it.

1 Assemble the centre speaker: **Attach the side caps and speaker feet to the speaker and connect the speaker cable.**

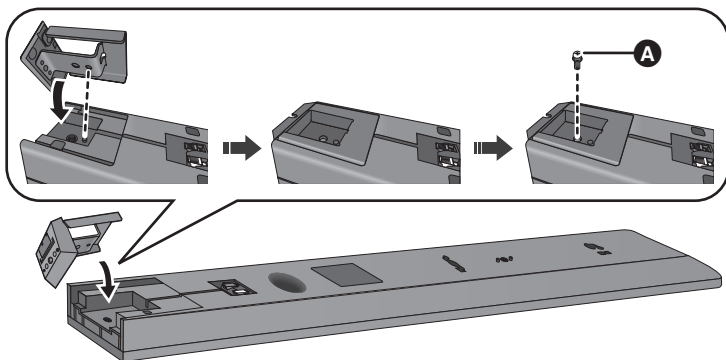
- There is no left and right for the centre speaker.
- Insert the wire fully, taking care not to insert beyond the wire insulation.
- Keep the screws and the speaker feet out of reach of children to prevent swallowing.



- | | |
|---|--|
| <p>A Screw (supplied)</p> <ul style="list-style-type: none"> • Tighten securely. <p>B Speaker foot (supplied)</p> <p>C Centre speaker connector</p> | <p>1 Insert the wire fully.</p> <p>+: White</p> <p>–: Blue line</p> |
|---|--|

Attach the stand neck.

- The two front speakers are interchangeable.
- Keep the screws out of reach of children to prevent swallowing.



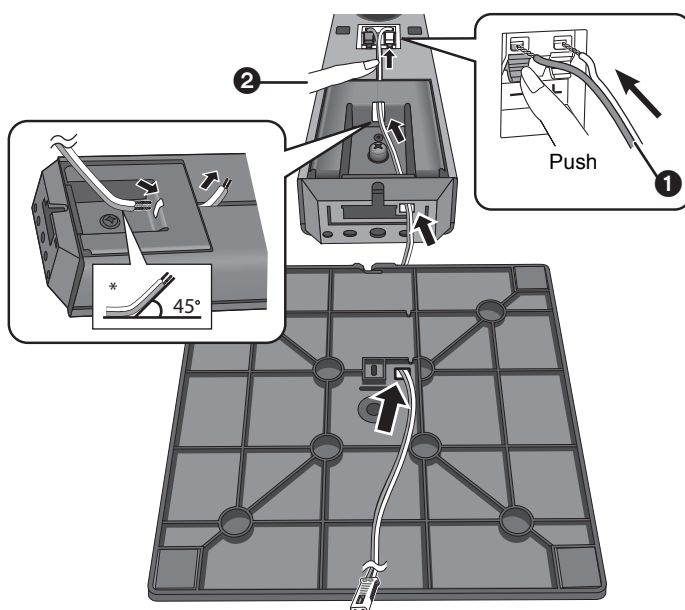
A Screw (supplied)

- Tighten securely.

3 Assemble the front speakers:

Insert the speaker cable through the speaker base and connect the speaker cables.

- Be sure to insert the speaker cable through the threading hole as indicated in the illustration.



- 1 Insert the wire fully.

+: White
-: Blue line

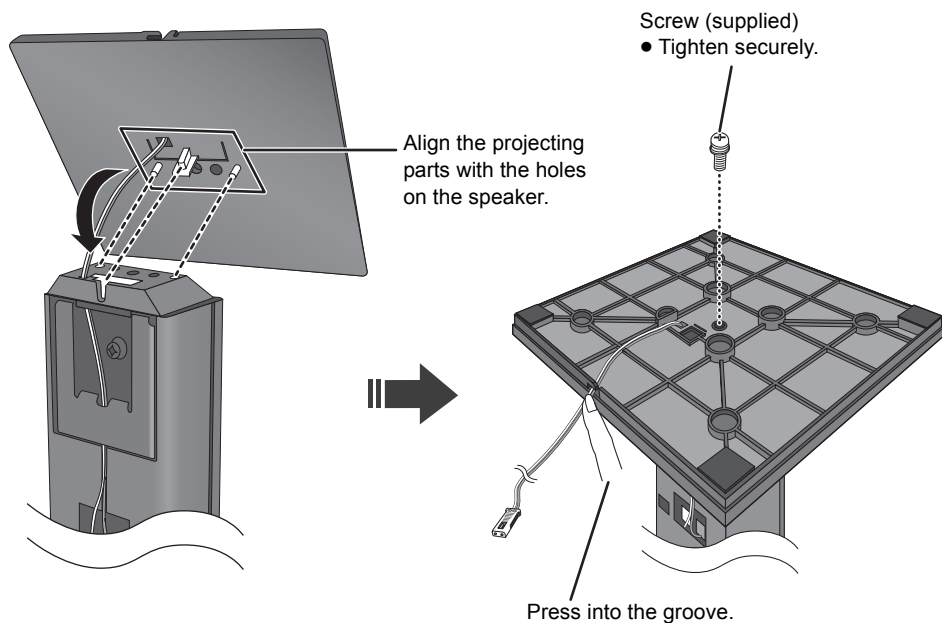
- Insert the wire fully, taking care not to insert beyond the wire insulation.

2 Press into the groove.

* If you have difficulty inserting the cable, try straightening the speaker cable and then bending the cable about 20 mm from the tip, at an angle of approx. 45° (as illustrated above).

4 Assemble the front speakers: Attach the speaker base.

- The two front speakers are interchangeable.
- Keep the screws out of reach of children to prevent swallowing.



Red connector: The speaker attached to the **red** connector cable is to be placed on the **right** side.

White connector: The speaker attached to the **white** connector cable is to be placed on the **left** side.

Additional speaker fall prevention measures

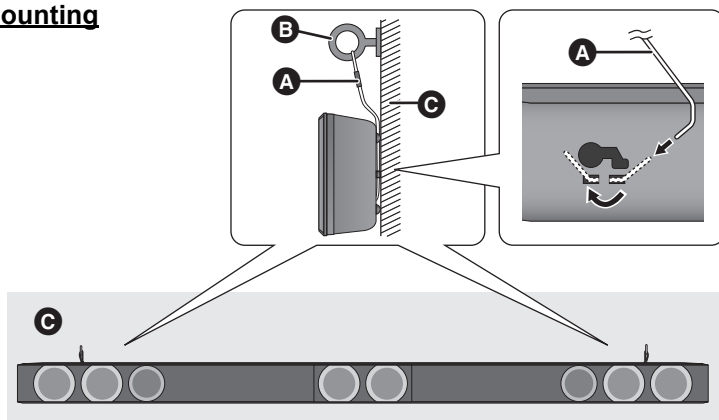
To prevent the speakers from falling, it is recommended, as an additional protection measure, to attach the speakers to the wall or table with a fall prevention cord (hereafter “cord”).



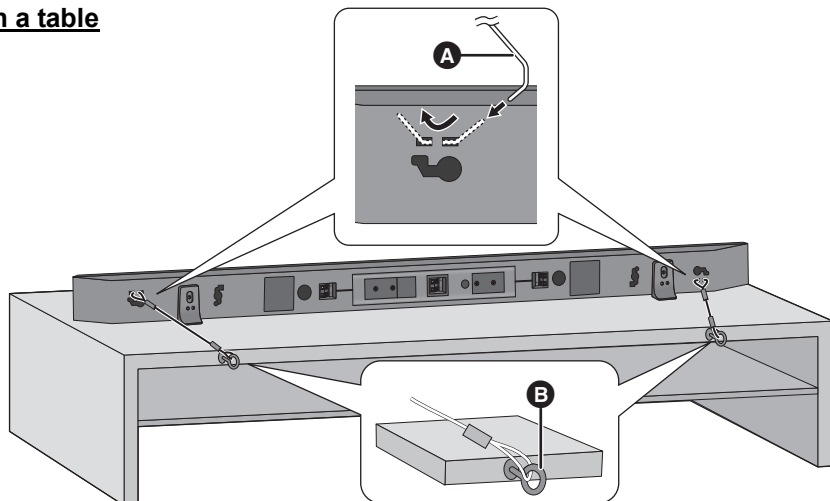
- Consultation with a qualified installation specialist concerning the appropriate procedure when attaching to a concrete wall or a surface that may not have strong enough support is recommended (⇒ 12, 16). Improper attachment may result in damage to the wall and speakers, and personal injury.
- Use a cord that is capable of supporting over 10 kg (with a diameter of about 1.5 mm).
- The speaker fall prevention measure is to minimize the possibility of damage and harm, but it does not completely guarantee this effect.
- Keep the screws out of reach of children to prevent swallowing.
- Make sure that the slack of the cord is minimal.
- Depending on the placement of the speakers, the screwing position of the screw eye may differ.

When attaching the speakers horizontally

Wall mounting



On a table



A Cord*

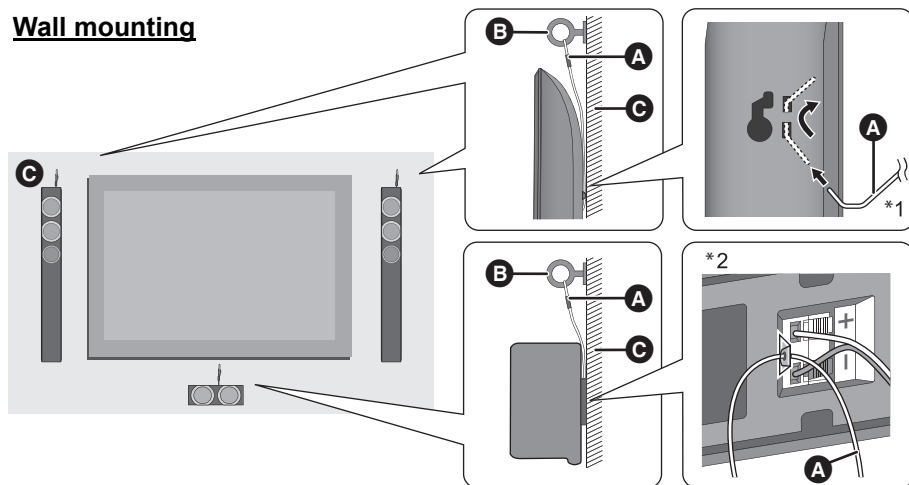
B Screw eye

C Wall

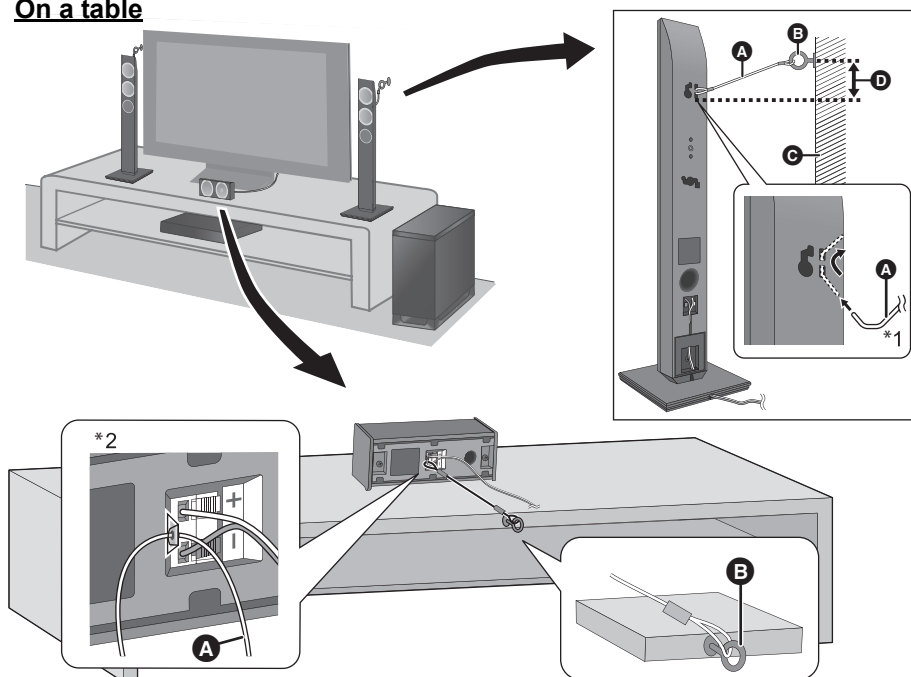
* If the cord cannot be threaded through the holes, try bending the cord in 2 locations, about 10 mm apart from the tip, at an angle of 45° (as illustrated above).

When attaching the speakers vertically

Wall mounting



On a table



- A** Cord*1,2
- B** Screw eye

- C** Wall
- D** Approx. 150 mm

*1 If the cord cannot be threaded through the holes, try bending the cord in 2 locations, about 10 mm apart from the tip, at an angle of 45° (as illustrated above).

*2 When attaching the cord to the centre speaker, make sure that the cord does not touch the speaker cable lead wire.

Step 3 Connections

- Turn off all equipment before connection and read the appropriate operating instructions.

Do not connect the AC mains lead until all other connections are completed.

HDMI

- The HDMI connection supports VIERA Link "HDAVI Control" (⇒ 31) when used with a compatible Panasonic TV.
- Use the ARC compatible High Speed HDMI Cables. Non-HDMI-compliant cables cannot be utilised.
- It is recommended that you use Panasonic's HDMI cable.

Connection with the TV

1 Verify if the TV's HDMI terminal is labelled "HDMI (ARC)".

Connection differs depending on the label printed next to the HDMI terminal.

Labelled "HDMI (ARC)": Connection A

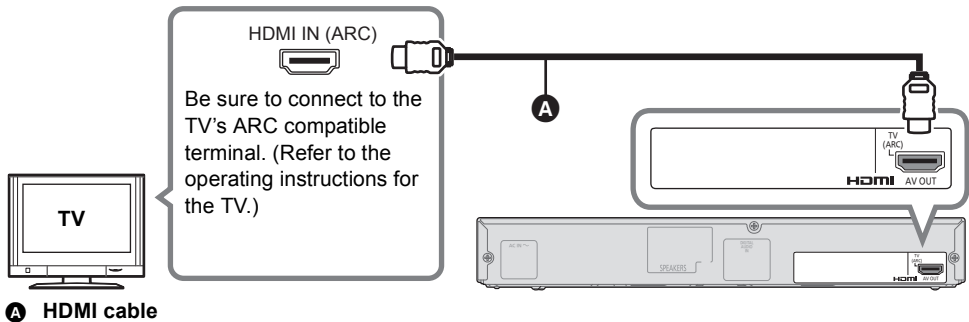
Not Labelled "HDMI (ARC)": Connection B

What is ARC?

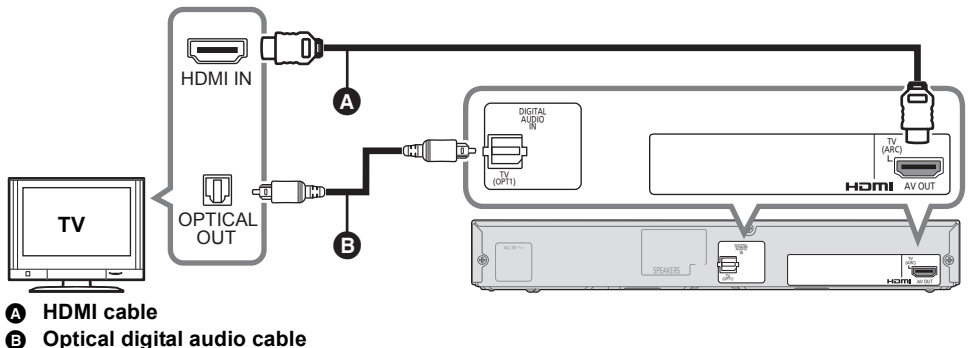
ARC is an abbreviation of Audio Return Channel, also known as HDMI ARC. It refers to one of the HDMI functions. When you connect the main unit to the terminal labelled "HDMI (ARC)" on the TV, the optical digital audio cable that is usually required in order to listen to sound from a TV is no longer required, and TV pictures and sound can be enjoyed with a single HDMI cable.

2 Make the connection.

A Labelled "HDMI (ARC)"



B Not labelled "HDMI (ARC)"



- When you use the optical digital audio cable, insert the tip correctly into the terminal.

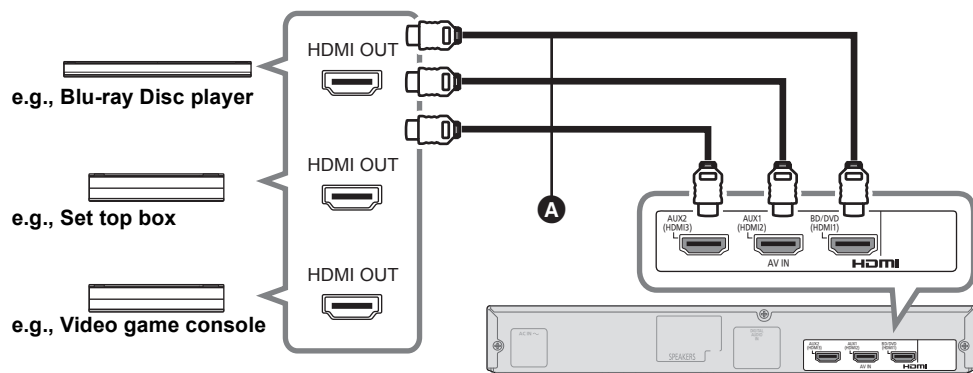
Connection with other devices

You can direct the audio signal from the connected Blu-ray Disc player, DVD player, Set Top Box, etc. to this system.

When the device has an HDMI terminal

Preparation

- Connect the main unit to the TV (⇒ 25).



A HDMI cable

■ HDMI standby pass-through

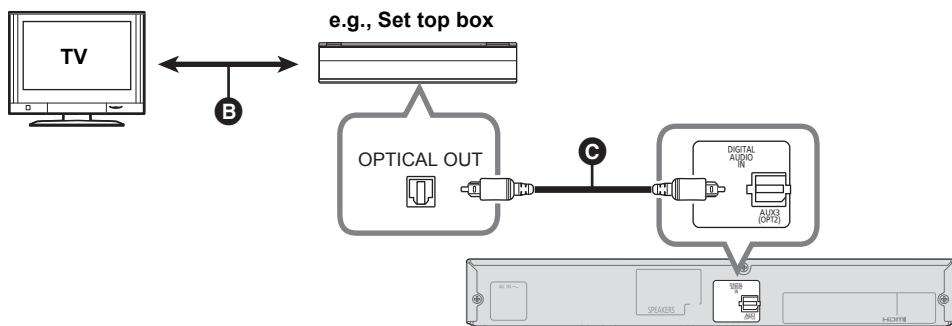
Even if the main unit is in standby mode, the audio and/or video signal from the device connected to the BD/DVD, AUX1 or AUX2 terminal will be sent to the TV connected to the HDMI OUT terminal (the sound will not be output from this system). When devices are connected to all BD/DVD, AUX1 and AUX2 terminals, audio and/or video signal of the device whose input is lastly selected is output.

■ 3D compatibility

Compatible with FULL HD 3D TV and Blu-ray Disc player.

- The main unit can pass-through the 3D video signal from a 3D compatible Blu-ray Disc player to a FULL HD 3D TV.

When the device has an optical digital audio output terminal

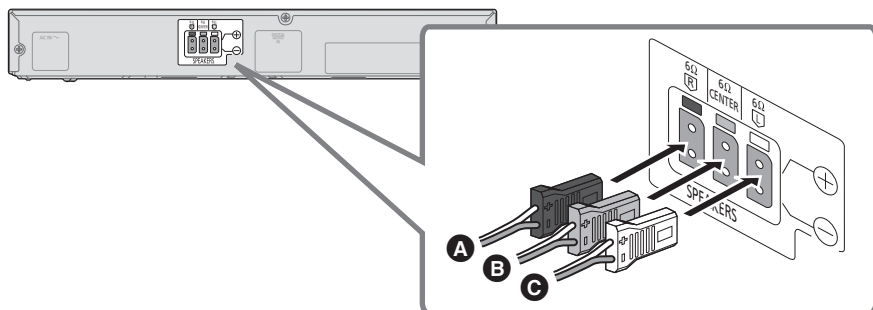


B Refer to the operating instructions of the respective devices for the optimal connection.

C Optical digital audio cable

Speaker cable connection

Match the connector shape and connect to the terminals of the same colour.



A RED

Right speaker connector

B GREEN

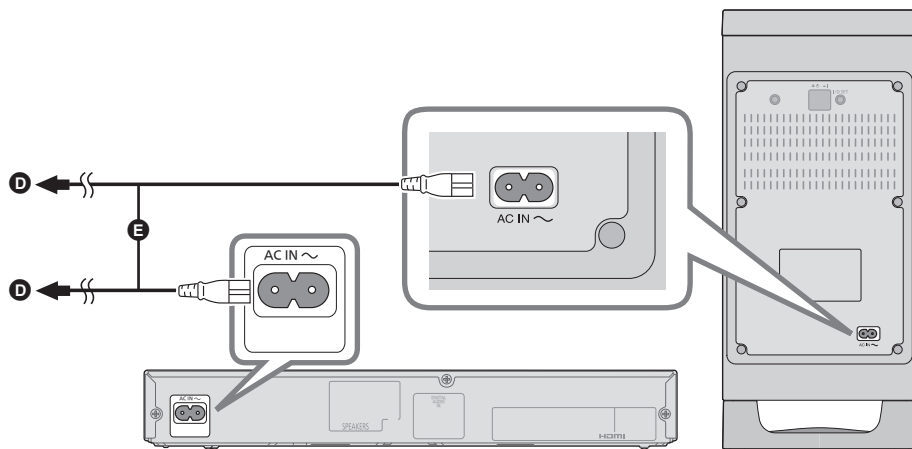
Centre speaker connector

C WHITE

Left speaker connector

AC mains lead connection

- Connect only after all other connections are completed.



D To a household mains socket

E AC mains lead (supplied)

- This system consumes a small amount of AC power (\Rightarrow 38) even when it is turned off. In the interest of power conservation, if you will not be using this system for a long time, unplug it from the household mains socket.

For customers in United Kingdom and Ireland

BE SURE TO READ THE CAUTION FOR THE AC MAINS LEAD ON PAGE 3 BEFORE CONNECTION.

Saving energy

The main unit is designed to conserve its power consumption and save energy.

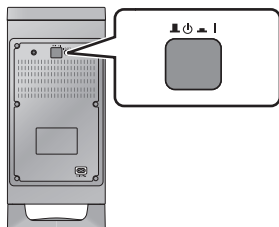
- The main unit will automatically switch to standby mode when no signal is input and no operation is performed for approx. 2 hours. Refer to page 33, "Auto standby function" to turn this function off.

Active subwoofer wireless connection

Preparation

- Turn on the main unit.

1 Press [].



Active subwoofer on/off button []



Use this button to turn the active subwoofer on and off.

■ I:

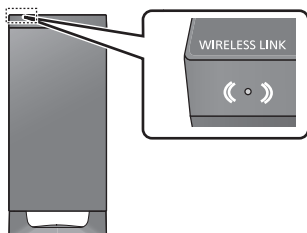
The active subwoofer is on.

■  :

The active subwoofer is off.

The active subwoofer will still consume a small amount of power even when it is turned off ( , ).

2 Check that the wireless link is activated.



WIRELESS LINK indicator

Lights red:

The wireless link is not activated.

Lights green:

The wireless link is activated.

Blinks green:

The active subwoofer is trying to activate the wireless link with the main unit.



The wireless link will be activated when the main unit and the active subwoofer are both turned on.

Bluetooth® connection

By using the Bluetooth® connection, you can listen to the sound from the Bluetooth® audio device from this system wirelessly.

Preparation

- Turn on the Bluetooth® feature of the device and place the device near the main unit.

Bluetooth® pairing


1 Press [] to select “”.

- If the “” indicator flashes quickly, go to step 3.

2 Press and hold [] until the “” indicator flashes quickly.


- If the “” indicator flashes slowly, repeat step 2.

3 Select “SC-HTB770” from the Bluetooth® device’s Bluetooth® menu.

- If prompted for the passkey on the Bluetooth® device, enter “0000”.
- Once the Bluetooth® device is connected, the “” indicator stops flashing and lights up.



Connecting a Bluetooth® device

1 Press [] to select “”.


- If the “” indicator lights, a Bluetooth® device is already connected with this system. Disconnect it. (→ below)

2 Select “SC-HTB770” from the Bluetooth® device’s Bluetooth® menu.

■ Disconnecting a Bluetooth® device

Press and hold [] until the “” indicator flashes slowly.

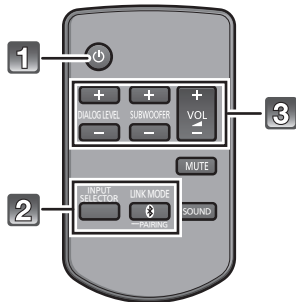


- When “” is selected as the source, this system will automatically try and connect to the last connected Bluetooth® device.
- The Bluetooth® device will be disconnected if a different audio source (e.g. “TV”) is selected.
- Refer to the operating instructions of the Bluetooth® device for further instruction on how to connect a Bluetooth® device.
- This system can only be connected to one device at a time.
- You can register up to 8 devices with this system. If a 9th device is paired, the device that has not been used for the longest time will be replaced.
- To change the sound quality, refer to “Bluetooth® communication mode” on page 32.

Using this system

Preparation

- Turn on the active subwoofer.
- Turn on the TV and/or connected device.



1 Press [⏻] to turn on the main unit.

2 Select the source.

Press	To select
[INPUT SELECTOR]	"TV" → "BD/DVD" → "AUX1"
[⌂]	↑ "⌂" ← "AUX3" ← "AUX2" ←
[⌂]	"⌂" (Bluetooth®)

- This remote control cannot be used to control the operations of the connected devices.

■ When "⌂" is selected as the source

On the Bluetooth® device:

Select this system as the output source of the connected Bluetooth® device and start the playback.

■ When "BD/DVD", "AUX1" or "AUX2" is selected as the source

On the TV and the connected device:

Select the TV's input for this system and start the playback on the connected device.

■ When "AUX3" is selected as the source

On the TV and the connected device:

Select the TV's input for the device connected to "AUX3" terminal and start the playback on the connected device.

3 Adjust the volume and sound effect level.

■ To adjust the volume of this system


















Press [+ VOL -].

- Volume range: 0 to 100*

■ To adjust the dialog effect level

This setting will change the level of the Clear-mode dialog effect. (⇒ 30)

- 1 Press [+ DIALOG LEVEL -] to display the current level.
- 2 While the level is displayed:
Press [+ DIALOG LEVEL -] to adjust the level.

Indication				Effect level	
STADIUM	MUSIC	CINEMA	NEWS	4	Highest
					
STADIUM	MUSIC	CINEMA	NEWS	3	
					
STADIUM	MUSIC	CINEMA	NEWS	2	
					
STADIUM	MUSIC	CINEMA	NEWS	1	
					
				1	Lowest

■ To adjust the subwoofer level

- 1 Press [+ SUBWOOFER -] to display the current level.
- 2 While the level is displayed:
Press [+ SUBWOOFER -] to adjust the level.

- The level indication pattern is the same as dialog effect level.

■ To mute the sound

Press [MUTE].

- While muting, the sound mode indicators blink simultaneously.
- To cancel, press the button again or adjust the volume.
- Muting is cancelled if the main unit is turned off.



If this system does not operate as expected or sound is unusual, returning the settings to the factory preset may solve the problem. (⇒ 34)

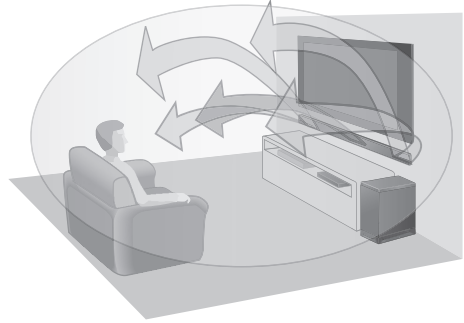
- * The sound mode indicators blink from left to right (+) or from right to left (-) while adjusting. The indicators will not blink when it has reached the maximum or minimum.
- If there is sound coming out of the TV's speakers, reduce the volume of the TV to its minimum.
- If the main unit is turned off with the volume setting in the greater half (above 50), the main unit will automatically lower the volume to the middle (50) when the main unit is turned on (Volume limitation).
To turn this function off, refer to page 34.

3D sound

This system provides a feeling that the sound and the image are as one.

- To change the applied effect, refer to “Sound modes”. (⇒ right)

e.g., Image of 3D sound field



3D sound	
Dolby®Virtual Speaker	With this effect you can enjoy a surround sound effect similar to 5.1ch.
3D surround effect	Adding to the Dolby Virtual Speaker effect, Panasonic has applied its own sound field controlling technology to expand the sound field forwards, backwards, upwards, and downwards, providing a sound with depth and force that better matches 3D images.
Clear-mode dialog	Sports commentary and dialogs from TV dramas are heard as if the sound is coming from the TV, giving the feeling that the sound and the image are one. Also, the dialog will stand out from the other sounds during normal volume playback and when the volume is lowered for night time viewing.



- To turn off Dolby Virtual Speaker and the 3D surround effects, select “STEREO” as the sound mode. (⇒ right)
- To turn off the 3D surround and the Clear-mode dialog effects, refer to “Using the Dolby Virtual Speaker effect”. (⇒ 33)

Sound modes

By changing the sound mode, it is possible to enjoy the sound that is suitable to the TV program or image from the connected device.

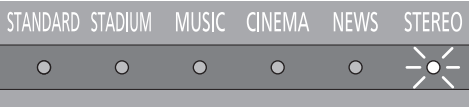
To select the sound mode

Press [SOUND].

“STANDARD” → “STADIUM” → “MUSIC”
↑ “STEREO” ← “NEWS” ← “CINEMA” ←

- The indicator for the selected sound mode lights.

e.g., “STEREO”



Sound mode	
“STANDARD”	Produces a sound best suited for dramas and comedy shows.
“STADIUM”	Produces a highly realistic sound for live broadcasts of sports.
“MUSIC”	Re-creates the sound of musical instruments and songs with an expansive sound.
“CINEMA”	Produces a powerful, three-dimensional sound unique to movies.
“NEWS”	Enhances the voices of news and sports commentaries for clearer hearing.
“STEREO” (Factory preset)	You can play any source in stereo. Dolby Virtual Speaker and 3D surround effects are turned off.



The setting is maintained until it is changed again.

Linked operations with the TV (VIERA Link “HDAVI Control™”)

What is VIERA Link “HDAVI Control”?

VIERA Link “HDAVI Control” is a convenient function that offers linked operations of this system, and a Panasonic TV (VIERA) under “HDAVI Control”.

You can use this function by connecting the equipment with an HDMI cable. See the operating instructions for connected equipment for operational details.

Preparation

- ① Confirm that the HDMI connection has been made. (⇒ 25, 26)
- ② Set the “HDAVI Control” operations on the connected equipment (e.g., TV).
- ③ For the optimal “HDAVI Control” operations change the following settings on the connected TV^{*1}.
 - Set the default speaker settings to this system.^{*2}
 - Set the speaker selection settings to this system.
- ④ Turn on all “HDAVI Control” compatible equipment and select the TV’s input for this system so that the “HDAVI Control” function works properly.
- ⑤ If a device is connected to the HDMI IN terminal, start play to check that the picture is displayed on the TV correctly.

When the connection or settings are changed, repeat this procedure.

^{*1} The availability and function of the settings may vary depending on the TV. Refer to the operating instructions for the TV for details.

^{*2} If the TV has a default speaker setting within the VIERA Link setting items, choosing this system as the default speaker will automatically change the speaker selection to this system.



- VIERA Link “HDAVI Control”, based on the control functions provided by HDMI which is an industry standard known as HDMI CEC (Consumer Electronics Control), is a unique function that we have developed and added. As such, its operation with other manufacturers’ equipment that supports HDMI CEC cannot be guaranteed.
- This unit supports “HDAVI Control 5” function. “HDAVI Control 5” is the standard for Panasonic’s HDAVI Control compatible equipment. This standard is compatible with Panasonic’s conventional HDAVI equipment.
- Please refer to individual manuals for other manufacturers’ equipment supporting VIERA Link function.

What you can do with VIERA Link “HDAVI Control”

To make sure that the audio is output from this system, turn the main unit on by using the TV’s remote control and selecting home cinema from the speaker menu of VIERA Link menu.

The availability and function of the settings may vary depending on the TV. Refer to the operating instructions for the TV for details.

■ Speaker control

You can select whether audio output is from this system or the TV speakers by using the TV menu settings.

Home cinema

This system is active.

- When the main unit is in standby mode, changing the TV speakers to this system in the VIERA Link menu will automatically turn the main unit on.
- You can control the volume setting of this system using the volume or mute button on the TV remote control.
- If you turn off the main unit, TV speakers will be automatically activated.
- Audio will automatically be output from this system if the TV is compatible to VIERA Link “HDAVI Control 4” or later.

TV

TV speakers are active.

- The volume of this system is set to its minimum.

■ Automatic input switching

When the following operations are performed, the main unit will automatically change the input to the corresponding source.

- When play starts on an HDMI connected device.^{*3}
- When the TV input or the TV channel is changed.

^{*3} If the speaker output setting on the TV is set to this system, the TV and the main unit turn on automatically (Power on link).

■ Power off link

When the TV is turned off, the main unit also turns off automatically. (This function does not work when Bluetooth® is the source.)

■ Automatic lip-sync function (for HDAVI Control 3 or later)

Delay between audio and video is automatically adjusted by adding time-lag to the audio output, enabling you to enjoy smooth audio for the picture.



The delay information is automatically set if the TV is compatible to VIERA Link “HDAVI Control 3” or later and the VIERA Link is set to on.

Advanced operations

Audio format indicator

To display the current audio format.

Press and hold [SOUND] for more than 4 sec.

- The current audio format is indicated for 5 sec.



"STADIUM" indicator blinks:
Dolby Digital is the audio format.



"MUSIC" indicator blinks:
DTS is the audio format.



"CINEMA" indicator blinks:
PCM is the audio format.



Audio format is not indicated when "ⓧ" is selected as the source.

Changing the dual audio

Change the dual audio from main to secondary.

- This setting will only work if the audio output setting on the connected TV or player, etc. is set to "Bitstream" and dual audio is available in the audio source.

1 Press and hold [MUTE] for more than 4 sec.



"STANDARD" indicator blinks (A):
Main (Factory preset)



"STEREO" indicator blinks (B):
Secondary
(SAP: Secondary Audio Program)

When A and B both blink: Main and secondary

2 While the setting is displayed, press [MUTE] to change the setting.

- The setting changes each time [MUTE] is pressed.
- The indicator for the selected setting blinks for 20 sec and then exits the setting mode.
- The setting is maintained until it is changed again.

Auto gain control

With this function, you can prevent sudden loud sounds. The output will be reduced automatically when the input exceeds a certain level.

1 Press and hold [INPUT SELECTOR] on the remote control for more than 4 sec.



"STANDARD" indicator blinks:
Auto gain control is on.



"STEREO" indicator blinks:
Auto gain control is off.
(Factory preset)

2 While the setting is displayed, press [INPUT SELECTOR] on the remote control to change the setting.

- The setting changes each time [INPUT SELECTOR] is pressed.
- The indicator for the selected setting blinks for 20 sec and then exits the setting mode.
- The setting is maintained until it is changed again.

Bluetooth® communication mode

You can select different modes to suit the type of connections with emphasis on connectivity or high quality audio.

- Make sure that a Bluetooth® device is already paired with this system. (⇒ 28)

1 Press [ⓧ] to select "ⓧ".

- "ⓧ" indicator will blink slowly. If the indicator lights, a Bluetooth® device is already connected with this system. Disconnect it. (⇒ 28)

2 Press [ⓧ] to display the current mode.



"STANDARD" indicator blinks:
MODE1 (Factory preset)
Emphasis on connectivity



"STEREO" indicator blinks:
MODE2
Emphasis on audio quality

3 While the mode is displayed, press [ⓧ] to select the mode.

- The setting changes each time [ⓧ] is pressed.
- The indicator for the selected setting blinks for 10 sec and then exits the setting mode.
- The setting is maintained until it is changed again.

Using the Dolby Virtual Speaker effect

Depending on your preference, It is possible to turn off the 3D surround effect and the clear-mode dialog effect.

- 1 While pressing and holding [SOUND] on the remote control, press and hold [VOL +] on the main unit for more than 4 sec.



"STANDARD" indicator blinks:
3D surround effect and clear-mode dialog effect is on.



"STEREO" indicator blinks:
3D surround effect and clear-mode dialog effect is off.

- 2 While the setting is displayed, press [SOUND] to change the setting.

- The setting changes each time [SOUND] is pressed.
- The indicator for the selected setting blinks for 20 sec and then exits the setting mode.
- This setting will be reset to on when the main unit is turned off.
- When off is selected, the dialog effect level cannot be adjusted.

Dimmer mode

You can turn off dimmer mode and keep the LED indicators bright.

While pressing and holding [INPUT SELECTOR] on the remote control, press and hold [- VOL] on the main unit for more than 4 sec to turn off Dimmer mode.

- The indicator for the current condition will turn brighter.
- The setting is maintained until it is changed again.
- Default setting of this function is on.



To turn on dimmer mode, repeat the operation above.
After performing the operation, the indicator for the current condition will be dim.

Auto standby function

With this function turned on, this unit can be set to automatically switch to standby mode if there is no signal input and no operation is performed for 2 hours.

- 1 While pressing and holding [DIALOG LEVEL -] on the remote control, press and hold [INPUT SELECTOR] on the main unit for more than 4 sec.

- The indicator for the current setting blinks for 20 sec.



"STANDARD" indicator blinks:
Auto standby function is on.



"STEREO" indicator blinks:
Auto standby function is off.

- 2 While the indicator is blinking, press [DIALOG LEVEL -] to change the setting.

- The setting changes each time [DIALOG LEVEL -] is pressed.
- The setting is maintained until it is changed again.

Others

Remote control code

When other Panasonic devices respond to this system's remote control, change the remote control code on this system and the remote control.

Preparation

- Turn off all other Panasonic products.
- Turn on the main unit.

Change the remote control code to code 2:

- 1 Aim the remote control at the main unit's remote control sensor.
 - 2 Press and hold [MUTE] and [Ⓢ] on the remote control for more than 4 sec.
- All the indicators will blink for 10 sec when the code of this system is changed.



- The setting is maintained until it is changed again.



- If the main unit does not operate after changing the code, repeat steps 1 and 2.
- To change the remote control code to code 1, repeat the steps above, but replace [Ⓢ] with [INPUT SELECTOR].

■ To reduce the clear-mode dialog effect

When the dialog does not sound natural while the volume is set low, it is possible to reduce the dialog enhancing effect as follows:

While pressing and holding [SOUND] on the remote control, press and hold [– VOL] on the main unit for more than 4 sec.

- All the indicators will blink once when the clear-mode dialog effect is reduced.



- Even if clear-mode dialog effect is reduced, dialog effect level is still adjustable.



To reset the setting, return to the factory preset. (⇒ right)

■ To turn off VIERA Link “HDAVI Control”

When “HDAVI Control” compatible equipment does not work well with this system, for example, it is possible to turn off this function as follows:

- When VIERA Link is turned off, the ARC function is not available. Be sure to connect the optical digital audio cable. (⇒ 25)
- 1 While pressing and holding [MUTE] on the remote control, press and hold [– VOL] on the main unit for more than 4 sec.
 - 2 After the setting has changed, turn off all the connected devices and then turn them on again.
- All the indicators will blink once when VIERA Link “HDAVI Control” is turned off.



To reset the setting, return to the factory preset. (⇒ right)

■ To turn off the volume limitation

If a state of the lowered volume disturbs you every time the main unit turns on, for example, it is possible to turn off this function as follows:

While pressing and holding [MUTE] on the remote control, press and hold [VOL +] on the main unit for more than 4 sec.

- All the indicators will blink once when the volume limitation is turned off.



To reset the setting, return to the factory preset. (⇒ right)

Troubleshooting

Before requesting service, make the following checks. If you are in doubt about some of the check points, or if the solutions indicated in the following guide do not solve the problem, consult your dealer for instructions.

To return to the factory preset.

While the main unit is on, press [⏻/I] on the main unit for more than 4 sec.

(All the indicators will blink twice when this system is reset.)

If this system does not operate as expected, returning the settings to the factory preset may solve the problem.

- The remote control code will return to “1” when this system is returned to the factory preset. To change the remote control code, refer to page 33.

General operation

No power.

- Insert the AC mains lead securely. (⇒ 27)
- After turning the main unit on, if the indicators blink and the main unit immediately turns off, unplug the AC mains lead and consult your dealer.

The remote control does not work properly.

- The battery is depleted. Replace it with a new one. (⇒ 8)
- It is possible that the insulation sheet has not been removed. Remove the insulation sheet. (⇒ 8)
- It may be necessary to set the code of the remote control again after changing the battery of the remote control. (⇒ 33)
- Use the remote control within the correct operation range. (⇒ 8)

The “TV” indicator blinks.

Remove the AC mains lead and consult your dealer. If there are any other indicators blinking, be sure to inform your dealer about the blinking indicators.

The main unit is automatically switched to standby mode.

The auto standby function is on.

The main unit will automatically switch to standby mode when no signal is input and no operation is performed for approx. 2 hours. Refer to page 33 to turn this function off.

The main unit is turned off when the TV’s speakers are selected in the speaker control.

This is a normal feature when using VIERA Link (HDAVI Control 4 or later). Please read the operating instructions for the TV for details about its power save feature. (⇒ 31)

HDMI

This system does not operate correctly.

If the HDMI cable is connected to the wrong terminal (HDMI IN or HDMI OUT), this system will not operate correctly. Turn the main unit off, disconnect the AC mains lead and reconnect the HDMI cable(s). (⇒ 25, 26)

VIERA Link related operations no longer function properly.

- Check the VIERA Link setting on the connected devices.
- Have you turned the VIERA Link settings off? (⇒ 34)
- When the HDMI connections are changed, after a power failure or after the AC mains lead has been removed, VIERA Link operations may not function properly.
 - Turn on all the devices that are connected to the TV with an HDMI cable and then turn the TV on.
 - Turn off the VIERA Link settings of the TV and turn it on again. For details refer to the operating instructions for the TV.
 - While the main unit and the TV are connected with the HDMI cable, turn on the TV and then remove the main unit's AC mains lead and reconnect it again.

The first few seconds of audio cannot be heard when using the HDMI connection.

This may occur during DVD-Video chapter playback. Change the digital audio output setting on the connected device from "Bitstream" to "PCM".

When operating an HDMI compatible device of a different brand, the main unit reacts in an unwanted manner.

HDAVI Control commands may use a different signal depending on the brand of the device. In this case, turn VIERA Link off. (⇒ 34)

Bluetooth®

Pairing cannot be done.

Check the Bluetooth® device condition.

The device cannot be connected.

- The pairing of the device was unsuccessful or the registration has been replaced. Try pairing the device again. (⇒ 28)
- This system might be connected to a different device. Disconnect the other device and try pairing the device again.

The device is connected but audio cannot be heard through this system.

For some built-in Bluetooth® devices, you have to set the audio output to "SC-HTB770" manually. Read the operating instructions for the device for details.

The sound is interrupted.

- The device is out of the 10 m communication range. Bring the Bluetooth® device closer to the main unit.
- Remove any obstacle between the main unit and the device.
- Other devices that use the 2.4 GHz frequency band (wireless router, microwaves, cordless phones, etc.) are interfering. Bring the Bluetooth® device closer to the main unit and distance it from the other devices.
- Select "MODE1" for stable communication. (⇒ 32)

Sound

No sound (or image).

- Turn muting off. (⇒ 29)
- Check the connections to the other devices. (⇒ 25, 26)
- Make sure that the received audio signal is compatible with this system. (⇒ 38)
- Turn this system off and then on again.
- If the main unit is connected to the TV with only an HDMI cable, make sure that the TV's HDMI terminal is labelled "HDMI (ARC)". If not, connect using the optical digital audio cable. (⇒ 25)
- If the main unit is connected to a Panasonic TV and turned on using the button on the main unit or the remote control, sound might not be output from this system. In this case, turn the main unit on using the TV's remote control. (⇒ 31)
- If the connections are correct, there might be a problem with the cables. Redo the connections with different cables.
- Check the audio output settings on the connected device.
- If the BD/DVD indicator flashes and there is no audio output, try the following.
 - ① Turn the connected device off and then on.
 - ② Turn off the main unit, remove the HDMI cable, then reconnect the HDMI cable and turn the main unit back on.

The dual audio cannot be changed from main to secondary.

If the audio received from the connected device is not "Dolby Dual Mono" or the output setting is not "Bitstream", the setting cannot be changed from this system. Change the setting on the connected device.

The volume is lowered when the main unit is turned on.

If the main unit is turned off with the volume setting in the greater half (above 50), the main unit will automatically lower the volume to the middle (50) when the main unit is turned on. (⇒ 34)

The dialog is too persistent or the dialog does not sound natural.

This system has a function to make the dialog stand out when the volume is low. (⇒ 34)

There is no audio.

The power of the main unit turns off automatically.

(When the main unit detects a problem, a safety measure is activated and the main unit automatically switches to standby mode.)

- There is a problem with the amplifier.

- Is the volume extremely high?
If so, lower the volume.
 - Is this system placed in an extremely hot place?
If so, move this system to a cooler place and wait a few moments and then try to turn it on again.
- If the problem persists, confirm the TV indicator and BD/DVD indicator blink, turn this system off, remove the AC mains lead cord and consult your dealer. Please be sure to remember the indicators that were blinking and inform the dealer.

Active Subwoofer

No power.

Ensure the AC mains lead of the active subwoofer is connected properly.

After turning the subwoofer on, it immediately turns off.

Unplug the AC mains lead and consult your dealer.

No sound from the subwoofer.





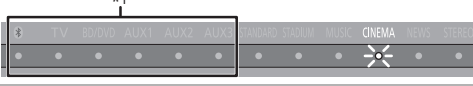




- Check that the active subwoofer is turned on.
- Check that the WIRELESS LINK indicator lights green. (⇒ 28)

The WIRELESS LINK indicator lights red.

- There is no link between the main unit and the active subwoofer.
 - Check that the main unit is turned on.
 - Turn the active subwoofer off and then back on. Alternatively, turn the active subwoofer off, disconnect the AC mains lead and then reconnect it.
- The active subwoofer and the main unit may not be paired correctly. Try the following operation. (Wireless pairing)
 - ① Turn on the main unit and active subwoofer.
 - ② Press [ID SET] on the rear of the active subwoofer for more than 3 sec.
(The WIRELESS LINK indicator will blink in red.)
 - ③ While pressing and holding [INPUT SELECTOR] on remote control, press and hold [VOL +] on the main unit for more than 4 sec. (The BD/DVD indicator will blink and sound mode indicators light up in sequence.)
 - When the wireless pairing is successful, BD/DVD indicator will stop flashing and WIRELESS LINK indicator lights green.
 - ④ Turn the main unit off and on.
- Consult your dealer if the problem persists.

Indicator illumination

The indicators display the condition of this system by flashing. The indicator patterns illustrated below are displayed during normal operational conditions. They do not refer to the indications of a problem.

Indicator	Description
	The BD/DVD indicator blinks**2 and sound mode indicators light up in sequence for 1 minute. <ul style="list-style-type: none">When the main unit is in wireless pairing mode with the active subwoofer (⇒ 36)
	The indicator blinks for 10 sec. <ul style="list-style-type: none">When the Bluetooth® communication is mode 1 (⇒ 32) The indicator blinks for 20 sec. <ul style="list-style-type: none">When 3D surround effect and clear-mode dialog effect are on (⇒ 33)When the dual audio setting is Main (⇒ 32)When the auto gain control is on (⇒ 32)When the auto standby function is on (⇒ 33)
	The indicator blinks for 5 sec. <ul style="list-style-type: none">When the audio format is Dolby Digital (⇒ 32)
	The indicator blinks for 5 sec. <ul style="list-style-type: none">When the audio format is DTS (⇒ 32)
	The indicator blinks for 5 sec. <ul style="list-style-type: none">When the audio format is PCM*3 (⇒ 32)
	The indicator blinks for 10 sec. <ul style="list-style-type: none">When the Bluetooth® communication is mode 2 (⇒ 32) The indicator blinks for 20 sec. <ul style="list-style-type: none">When 3D surround effect and clear-mode dialog effect are off (⇒ 33)When the dual audio setting is Secondary (SAP: Secondary Audio Program) (⇒ 32)When the auto gain control is off (⇒ 32)When the auto standby function is off (⇒ 33)
	The indicators blink for 20 sec. <ul style="list-style-type: none">When the dual audio setting is Main and Secondary (⇒ 32)
	The indicators blink for 10 sec. <ul style="list-style-type: none">When the remote control code is changed (⇒ 33) The indicators blink once. <ul style="list-style-type: none">When changing the setting ("To reduce the clear-mode dialog effect", "To turn off VIERA Link "HDMI Control"", and "To turn off the volume limitation") (⇒ 34) The indicators blink twice. <ul style="list-style-type: none">When the main unit is reset (⇒ 34)
	Bluetooth® indicator blinks quickly. <ul style="list-style-type: none">When the main unit is ready for pairing Bluetooth® indicator blinks slowly. <ul style="list-style-type: none">When the main unit is waiting to connect Bluetooth® indicator turns on. <ul style="list-style-type: none">When the main unit is connected with a Bluetooth® device

*1 The indicator for the current status remains lit.
*2 The BD/DVD indicator stops blinking and lights once the wireless pairing is successful.
*3 The indicator blinks only when [SOUND] is pressed for more than 4 sec and the audio format is PCM.

Specifications

AMPLIFIER SECTION

RMS output power: Dolby Digital Mode	
Front ch (L, R ch)	60 W per channel (6 Ω), 1 kHz, 10 % THD
Centre ch (C ch)	60 W per channel (6 Ω), 1 kHz, 10 % THD
Subwoofer ch	120 W per channel (8 Ω), 100 Hz, 10 % THD
Total RMS Dolby Digital mode power	300 W

WIRELESS SECTION

Wireless module	
Frequency Range	2.40335 GHz to 2.47735 GHz
No. of channels	38

TERMINAL SECTION

HDAVI Control	
This unit supports "HDAVI Control 5" function.	
HDMI AV input	
(BD/DVD, AUX1, AUX2)	3
Input connector	Type A (19 pin)
HDMI AV output	
(TV (ARC))	1
Output connector	Type A (19 pin)
Digital audio input	
Optical digital input	2
(TV, AUX3)	
Sampling frequency	
32 kHz, 44.1 kHz, 48 kHz	
88.2 kHz, 96 kHz (only LPCM)	
Audio format	
LPCM, Dolby Digital, DTS Digital Surround	
USB Port	
For service use only.	

SPEAKER SECTION

Front speakers	
3 way, 3 speaker system (Bass reflex type)	
Speaker unit(s)	Impedance 6 Ω
Woofer	5.7 cm cone type
Tweeter	2.5 cm semi-dome type
Super tweeter	Piezo type
Output sound pressure	78 dB/W (1 m)
Frequency range	90 Hz to 32 kHz (− 16 dB) 100 Hz to 23 kHz (− 10 dB)

Centre speaker	
2 way, 2 speaker system (Bass reflex type)	
Speaker unit(s)	Impedance 6 Ω
Woofer	5.7 cm cone type
Super tweeter	Piezo type
Output sound pressure	78 dB/W (1 m)
Frequency range	110 Hz to 20 kHz (− 16 dB) 150 Hz to 16 kHz (− 10 dB)

Active subwoofer	
1 way, 1 speaker system (Bass reflex type)	
Woofer	16 cm cone type
Output sound pressure	80 dB/W (1 m)
Frequency range	30 Hz to 180 Hz (− 16 dB) 35 Hz to 160 Hz (− 10 dB)

GENERAL

Power consumption	
Main unit	33 W
Active subwoofer	19 W
In standby condition	
Main unit (When the other connected devices are turned off)	
Approx. 0.25 W	
Active subwoofer	
(Power switch release)	
Approx. 0.25 W	

Power supply	AC 220 V to 240 V, 50 Hz
---------------------	--------------------------

Dimensions (W×H×D)	
Main unit	310 mm×45 mm×188 mm

Active subwoofer	180 mm×408 mm×306 mm
-------------------------	----------------------

Mass	
Main unit	Approx. 1.15 kg
Active subwoofer	Approx. 4.76 kg

Operating temperature range	0 °C to +40 °C
------------------------------------	----------------

Operating humidity range	20 % to 80 % RH (no condensation)
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SPEAKER GENERAL

For wall mounting layout

Horizontal placement

Dimensions (W×H×D)

1230 mm×68 mm×41 mm

Mass

1.98 kg

Vertical placement of front speakers

Front speaker

Dimensions (W×H×D)

68 mm×541 mm×41 mm

Mass

0.78 kg

Centre Speaker

Dimensions

(W×H×D)

178 mm×70 mm×45 mm

Mass

0.37 kg

For table top layout

Horizontal placement using the leg stands (High)

Dimensions (W×H×D)

1230 mm×96 mm×68 mm

Mass

2.04 kg

Horizontal placement using the leg stands (Low)

Dimensions (W×H×D)

1230 mm×87 mm×68 mm

Mass

2.04 kg

Horizontal placement using the support legs and the speaker feet

Dimensions (W×H×D)

1230 mm×71 mm×60 mm

Mass

2 kg

Vertical placement of front speakers

Front Speaker

Dimensions (W×H×D)

148 mm×552 mm×148 mm

Mass

0.89 kg

Centre Speaker

Dimensions

(W×H×D)

178 mm×71 mm×44 mm

Mass

0.37 kg

Bluetooth® SECTION

Bluetooth® system specification

Version 3.0

Wireless equipment classification

Class 2

Supported profiles

A2DP

Frequency band

2402 MHz to 2480 MHz

(Adaptive Frequency Hopping)

Operating distance

10 m Line of Sight

Unit care

■ Clean this system with a soft, dry cloth

- When dirt is heavy, wring a cloth moistened in water tightly to wipe the dirt, and then wipe it with a dry cloth.
- When cleaning the speakers, use a fine cloth. Do not use tissues or other materials (towels, etc.) that can fall apart. Small grains may get stuck inside the speaker cover.
- Never use alcohol, paint thinner or benzene to clean this system.
- Before using chemically-treated cloth, carefully read the instructions that came with the cloth.

■ To dispose or transfer this system

This system may keep the user settings information in the main unit. If you discard the main unit either by disposal or transfer, then follow the procedure to return all the settings to the factory presets to delete the user settings. (⇒ 34, "To return to the factory preset.")

- The operation history may be recorded in the memory of the main unit.

Licenses

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- Specifications are subject to change without notice.
- Mass and dimensions are approximate.
- Total harmonic distortion is measured by a digital spectrum analyzer.

Declaration of Conformity (DoC)

Hereby, "*Panasonic Corporation*" declares that this product is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

Customers can download a copy of the original DoC to our R&TTE products from our DoC server:

<http://www.doc.panasonic.de>

Contact to Authorised Representative: Panasonic Marketing Europe GmbH,
Panasonic Testing Centre, Winsbergring 15, 22525 Hamburg, Germany

This product is intended for general consumer. (Category 3)

Ελληνικά

Δήλωση συμμόρφωσης (DoC)

Με την παρούσα, η "*Panasonic Corporation*" δηλώνει ότι το προϊόν αυτό είναι σύμφωνο με τις βασικές απαιτήσεις και άλλες σχετικές διατάξεις της οδηγίας 1999/5/EC.

Οι πελάτες μπορούν να κατεβάσουν ένα αντίγραφο του πρωτοτύπου DoC για τα R&TTE προϊόντα μας από τον DoC server μας:

<http://www.doc.panasonic.de>

Στοιχεία επικοινωνίας Εξουσιοδοτημένου Αντιπροσώπου:
Panasonic Marketing Europe GmbH,
Panasonic Testing Centre, Winsbergring 15, 22525 Hamburg, Γερμανία

Αυτό το προϊόν προορίζεται για καταναλωτές. (Κατηγορία 3)

Português

Declaração de Conformidade (DoC)

Com o presente documento, a "*Panasonic Corporation*" declara que este produto é conforme os requisitos específicos e demais especificações referentes à Directriz 1999/5/EC.

Os clientes podem baixar uma cópia da declaração de conformidade (DoC) para nossos produtos R&TTE do Server DoC:

<http://www.doc.panasonic.de>

Contacte o representante autorizado: Panasonic Marketing Europe GmbH,
Panasonic Testing Centre, Winsbergring 15, 22525 Hamburg, Alemanha

Este produto destina-se ao consumidor geral. (Categoria 3)

Lietuviškai

Atitikties deklaracija (AD)

Bendrovė "*Panasonic Corporation*" patvirtina, kad šis gaminys tenkina direktyvos 1999/5/EB esminius reikalavimus ir kitas taikytinas nuostatas.

Mūsų R&TTE gaminių originalios atitikties deklaracijos kopiją klientai gali atsisiųsti iš mūsų AD serverio:

<http://www.doc.panasonic.de>

Igaliojoto atstovo adresas: "Panasonic Marketing Europe GmbH",
Panasonic Testing Centre, Winsbergring 15, 22525 Hamburg, Vokietija.

Šis gaminys skirtas bendrajam vartojimui. (3 kategorija.)

Slovensko

Izjava o skladnosti (DoC)

S pričujočo izjavo podjetje "*Panasonic Corporation*" izjavlja, da so svoji izdelki skladni s pglavitnimi zahtevami in drugimi odgovarjajočimi predpisi direktive 1999/5/ES.

Stranka lahko naloži izvod izvirnega DoC o naših izdelkih R&TTE s strežnika DoC:

<http://www.doc.panasonic.de>

Pooblaščen zastopnik: Panasonic Marketing Europe GmbH,
Panasonic Testing Centre, Winsbergring 15, 22525 Hamburg, Nemčija

Izdelek je namenjen splošni uporabi. (Razred 3)

Slovensky

Vyhlasenie o zhode (DoC)

"*Panasonic Corporation*" týmto prehlasuje, že tento výrobok je v zhode so základnými požiadavkami a ďalšími príslušnými ustanoveniami smernice 1999/5/ES.

Zákazníci si môžu stiahnuť kópiu pôvodného DoC na naše R&TTE výrobky z nášho servera DoC:

<http://www.doc.panasonic.de>

Kontakt na splnomocneného zástupcu: Panasonic Marketing Europe GmbH,
Panasonic Testing Centre, Winsbergring 15, 22525 Hamburg, Nemecko

Tento produkt je určený pre všeobecného spotrebiteľa. (Kategória 3)

Norsk

Samsvarserklæring (DoC)

"Panasonic Corporation" erklærer at utstyret er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 1999/5/EF. Kundene kan laste ned en kopi av den originale samsvarserklæringen (DoC) for vårt R&TTE utstyr fra vår DoC server:

<http://www.doc.panasonic.de>

Kontakt vår autoriserte representant: Panasonic Marketing Europe GmbH,
Panasonic Testing Centre, Winsbergring 15, 22525 Hamburg,
Tyskland

Utstyret er beregnet på den vanlige forbruker (klasse 3).

Eesti keel

Vastavusdeklaratsioon (DoC)

"Panasonic Corporation" kinnitab käesolevaga, et see toode on vastavuses põhiliste nõuete ja muude direktiivi 1999/5/EÜ asjakohaste sätetega.

Kliendid saavad koopia meie R&TTE toodetele kehtiva originaalvastavusdeklaratsiooni koopia alla laadida meie DoC-serverist:

<http://www.doc.panasonic.de>

Võtke ühendust volitatud esindajaga: Panasonic Marketing Europe GmbH,
Panasonic Testing Centre, Winsbergring 15, 22525 Hamburg,
Germany

See toode on mõeldud tavakasutajale. (III kategooria)

Latviski

Atbilstības deklarācija (DoC)

Kompānija "Panasonic Corporation" ar šo paziņo, ka šis izstrādājums atbilst būtiskām prasībām un citām saistošām Direktīvas 1999/5/EK prasībām.

Pircēji var lejupielādēt oriģinālo DoC kopiju mūsu R&TTE izstrādājuma no mūsu DoC servera:

<http://www.doc.panasonic.de>

Lūdzam sazināties ar pilnvaroto pārstāvi Panasonic Marketing Europe GmbH,
Panasonic Testing Centre, Winsbergring 15, 22525 Hamburg, Germany

Šis izstrādājums ir paredzēts parastam patērētājam. (3. kategorija)

Български

Декларация за съответствие (DoC)

"Panasonic Corporation" декларира, че този продукт съответства на съществени изисквания и другите приложими разпоредби на Директива 1999/5/EC. Потребителите могат да свалят копие от оригиналните DoC към нашите продукти от типа R&TTE от сървъра, на който се съхраняват DoC:

<http://www.doc.panasonic.de>

За контакт с оторизиран представител: Panasonic Marketing Europe GmbH,
Panasonic Testing Centre, Winsbergring 15, 22525 Hamburg,
Германия

Този продукт е предназначен за обща употреба. (Категория 3)

Român

Declarație de Conformitate (DoC)

Prin prezenta, societatea "Panasonic Corporation" declară că produsul este conform cu cerințele esențiale și cu alte norme corespunzătoare Directivei 1999/5/EC.

Clienții pot descărca o copie a DoC-ului original al produselor noastre R&TTE de la adresa noastră DoC din Internet:

<http://www.doc.panasonic.de>

Contact la Reprezentația autorizată: Panasonic Marketing Europe GmbH,
Panasonic Testing Centre, Winsbergring 15, 22525 Hamburg,
Germania

Acest produs a fost proiectat pentru clientela generală. (Categoriea 3)

Magyar

Megfelelőségi Nyilatkozat (DoC)

Ezennel a „Panasonic Corporation” kijelenti, hogy a jelen termék kielégíti az 1999/5/EK Irányelv létfontosságú követelményeit és más vonatkozó rendelkezéseit.

A vásárlók letölthetik az R&TTE termékek eredeti DoC másolatát a DoC szerverünkről:

<http://www.doc.panasonic.de>

Forduljon a hivatalos márkaképviselőhöz: Panasonic Marketing Europe GmbH,
Panasonic Testing Centre, Winsbergring 15, 22525 Hamburg,
Németország

A terméket általános fogyasztóknak szánták. (3-as kategória)



These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste.

For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC and 2006/66/EC.

By disposing of these products and batteries correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling. For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.



For business users in the European Union

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

[Information on Disposal in other Countries outside the European Union]

These symbols are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.



Cd

Note for the battery symbol (bottom two symbol examples):

This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.

Safety information for customers in Norway

NORSK

ADVARSEL

Produkt

- For å redusere faren for brann, elektrisk støt eller skade på apparatet:
 - Utsett ikke produktet for regn, fukt, drypping eller sprut.
 - Ikke plasser objekter som er fylt med væske, som vaser, på apparatet.
 - Bruk kun anbefalt tilbehør.
 - Fjern ikke deksler.
 - Reparer ikke denne enheten selv, overlat service til kvalifisert servicepersonell.

Vekselstrømnett

- Nettstøpselet er trukket ut fra denne enheten. Installer denne enheten slik at nettstøpselet umiddelbart kan trekkes fra stikkkontakten.

FORSIKTIG

Produkt

- Plasser ikke åpen ild, slik som levende lys, oppå apparatet.
- Dette apparatet er beregnet for bruk under moderate klimaforhold.

Plassering

- For å redusere faren for brann, elektrisk støt eller skade på apparatet:
 - Ikke plasser apparatet i en bokhylle, et innebygget kabinett eller et annet lukket sted. Pass på at produktet er godt ventilert.
 - Apparatets ventilasjonsåpninger må ikke dekkes til med aviser, duker, gardiner eller lignende.

Limited Warranty (ONLY FOR AUSTRALIA)

Panasonic Warranty

1. The product is warranted for 12 months from the date of purchase. Subject to the conditions of this warranty Panasonic or its Authorised Service Centre will perform necessary service on the product without charge for parts or labour, if in the opinion of Panasonic, the product is found to be faulty within the warranty period.
2. This warranty only applies to Panasonic products purchased in Australia and sold by Panasonic Australia or its Authorised Distributors or Dealers and only where the products are used and serviced within Australia or its territories. Warranty cover only applies to service carried out by a Panasonic Authorised Service Centre and only if valid proof of purchase is presented when warranty service is requested.
3. This warranty only applies if the product has been installed and used in accordance with the manufacturer's recommendations (as noted in the operating instructions) under normal use and reasonable care (in the opinion of Panasonic). The warranty covers normal domestic use only and does not cover damage, malfunction or failure resulting from use of incorrect voltages, incorrect installation, accident, misuse, neglect, build-up of dirt or dust, abuse, maladjustment of customer controls, mains supply problems, thunderstorm activity, infestation by insects or vermin, tampering or repair by unauthorised persons (including unauthorised alterations), introduction of sand, humidity or liquids, commercial use such as hotel, office, restaurant, or other business or rental use of the product, exposure to abnormally corrosive conditions or any foreign object or matter having entered the product.
4. This warranty does not cover the following items unless the fault or defect existed at the time of purchase:
 - (a) Cabinet Part(s)
 - (b) Video or Audio Tapes
 - (c) SD cards or USB devices
 - (d) User replaceable Batteries
 - (e) DVD, Blu-ray or Recordable Discs
 - (f) Video / Audio Heads from wear and tear in normal use
 - (g) Information stored on Hard Disk Drive, USB stick or SD card
 - (h) DTV reception issues caused by TV Aerial / Cabling / Wall socket(s)etc
5. Some products may be supplied with Ethernet connection hardware. The warranty is limited on such products and will not cover
 - (a) Internet and or DLNA connection / setup related problems
 - (b) Access fees and or charges incurred for internet connection
 - (c) The use of incompatible software or software not specifically stipulated in the product operations manual; and
 - (d) Any indirect or consequential costs associated with the incorrect use or misuse of the hardware, its connection to the internet or any other device.
6. To claim warranty service, when required, you should:
 - Telephone Panasonic's Customer Care Centre on 132600 or visit our website referred to below and use the Service Centre Locator for the name/address of the nearest Authorised Service Centre.
 - Send or take the product to a Panasonic Authorised Service Centre together with your proof of purchase receipt as a proof of purchase date. Please note that freight and insurance to and / or from your nearest Authorised Service Centre must be arranged by you.
 - Note that home or pick-up/delivery service is available for the following products in the major metropolitan areas of Australia or the normal operating areas of the nearest Authorised Service Centres:
 - Plasma/LCD televisions / displays (screen size greater than 103 cm)
7. The warranties hereby conferred do not extend to, and exclude, any costs associated with the installation, de-installation or re-installation of a product, including costs related to the mounting, de-mounting or remounting of any screen, (and any other ancillary activities), delivery, handling, freighting, transportation or insurance of the product or any part thereof or replacement of and do not extend to, and exclude, any damage or loss occurring by reason of, during, associated with, or related to such installation, de-installation, re-installation or transit.

Panasonic Authorised Service Centres are located in major metropolitan areas and most regional centres of Australia, however, coverage will vary dependant on product. For advice on exact Authorised Service Centre locations for your product, please telephone our Customer Care Centre on 132600 or visit our website and use the Service Centre Locator.

In addition to your rights under this warranty, Panasonic products come with consumer guarantees that cannot be excluded under the Australian Consumer Law. If there is a major failure with the product, you can reject the product and elect to have a refund or to have the product replaced or if you wish you may elect to keep the goods and be compensated for the drop in value of the goods. You are also entitled to have the product repaired or replaced if the product fails to be of acceptable quality and the failure does not amount to a major failure.

If there is a major failure in regard to the product which cannot be remedied then you must notify us within a reasonable period by contacting the Panasonic Customer Care Centre. If the failure in the product is not a major failure then Panasonic may choose to repair or replace the product and will do so in a reasonable period of time from receiving notice from you.

**THIS WARRANTY CARD AND THE PURCHASE DOCKET (OR SIMILAR PROOF OF PURCHASE)
SHOULD BE RETAINED BY THE CUSTOMER AT ALL TIMES**

If you require assistance regarding warranty conditions or any other enquiries, please visit the **Panasonic Australia** website **www.panasonic.com.au** or contact by phone on **132 600**
If phoning in, please ensure you have your operating instructions available.

Panasonic Australia Pty. Limited

ACN 001 592 187 ABN 83 001 592 187

1 Innovation Road, Macquarie Park NSW 2113

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For the United Kingdom and Ireland customers

Sales and Support Information

Customer Communications Centre

- For customers within the UK: 0844 844 3899
- For customers within Ireland: 01 289 8333
- Monday–Friday 9:00 am – 5:00 pm (Excluding public holidays).
- For further support on your product, please visit our website:
www.panasonic.co.uk

Direct Sales at Panasonic UK

- Order accessory and consumable items for your product with ease and confidence by phoning our Customer Communications Centre Monday–Friday 9:00 am – 5:00 pm (Excluding public holidays).
- Or go on line through our Internet Accessory ordering application at www.pas-europe.com.
- Most major credit and debit cards accepted.
- All enquiries transactions and distribution facilities are provided directly by Panasonic UK.
- It couldn't be simpler!
- Also available through our Internet is direct shopping for a wide range of finished products. Take a browse on our website for further details.

EU

Pursuant to the applicable EU legislation
Panasonic Marketing Europe GmbH
Panasonic Testing Centre
Winsbergring 15, 22525 Hamburg, Germany

EU



Panasonic Corporation
Web Site: <http://panasonic.net>

(En)