



B

## Front Surround System

# ATS-930

## Owner's Manual

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### Marks used in this manual

#### NOTE

This indicates precautions for use of the product and its feature limitations.


#### HINT

This indicates supplementary explanations for better use.

# CAUTION: READ THIS BEFORE OPERATING YOUR UNIT.

- To assure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.
- Install this unit in a well ventilated, cool, dry, clean place - away from direct sunlight, heat sources, vibration, dust, moisture, and/or cold. For proper ventilation, allow the following minimum clearances.  
Top: 10 cm (4 in), Rear: 10 cm (4 in), Sides: 10 cm (4 in)
- Locate this unit away from other electrical appliances, motors, or transformers to avoid humming sounds.
- Do not expose this unit to sudden temperature changes from cold to hot, and do not locate this unit in an environment with high humidity (i.e. a room with a humidifier) to prevent condensation inside this unit, which may cause an electrical shock, fire, damage to this unit, and/or personal injury.
- Avoid installing this unit where foreign objects may fall onto this unit and/or this unit may be exposed to liquid dripping or splashing. On the top of this unit, do not place:
  - Other components, as they may cause damage and/or discoloration on the surface of this unit.
  - Burning objects (i.e. candles), as they may cause fire, damage to this unit, and/or personal injury.
  - Containers with liquid in them, as they may fall and liquid may cause electrical shock to the user and/or damage to this unit.
- Do not cover this unit with a newspaper, tablecloth, curtain, etc. in order not to obstruct heat radiation. If the temperature inside this unit rises, it may cause fire, damage to this unit, and/or personal injury.
- Do not plug in this unit to a wall outlet until all connections are complete.
- Do not operate this unit upside-down. It may overheat, possibly causing damage.
- Do not use force on switches, knobs and/or cords.
- When disconnecting the power cable from the wall outlet, grasp the plug; do not pull the cable.
- Do not clean this unit with chemical solvents; this might damage the finish. Use a clean, dry cloth.
- Only voltage specified on this unit must be used. Using this unit with a higher voltage than specified is dangerous and may cause fire, damage to this unit, and/or personal injury. Yamaha will not be

held responsible for any damage resulting from use of this unit with a voltage other than specified.

- To prevent damage by lightning, keep the power cable and outdoor antennas disconnected from a wall outlet or the unit during a lightning storm.
- Do not attempt to modify or fix this unit. Contact qualified Yamaha service personnel when any service is needed. The cabinet should never be opened for any reasons.
- When not planning to use this unit for long periods of time (i.e. vacation), disconnect the AC power plug from the wall outlet.
- Be sure to read the “Troubleshooting” section on common operating errors before concluding that this unit is faulty.
- Before moving this unit, press  to set this unit in standby mode, and disconnect the power supply cable from the wall outlet.
- Condensation will form when the surrounding temperature changes suddenly. Disconnect the power supply cable from the outlet, then leave the unit alone.
- Install this unit near the wall outlet and where the AC power plug can be reached easily.
- The batteries shall not be exposed to excessive heat such as sunshine, fire or like.
- Secure placement or installation is the owner's responsibility. Yamaha shall not be liable for any accident caused by improper placement or installation of speakers.

## Notes on remote controls and batteries


- Do not spill water or other liquids on the remote control.
- Do not drop the remote control.
- Do not leave or store the remote control in the following places:
  - places of high humidity, such as near a bath
  - places of high temperatures, such as near a heater or a stove
  - places of extremely low temperatures
  - dusty places
- Do not expose the remote control sensor of this unit to direct sunlight or lighting such as inverted fluorescent lamps.
- If the batteries grow old, the effective operation range of the remote control decreases

considerably. If this happens, replace the batteries with two new ones as soon as possible.

- Do not use old batteries together with new ones.
- Do not use different types of batteries (such as alkaline and manganese batteries) together. Read the packaging carefully as these different types of batteries may have the same shape and color.
- Exhausted batteries may leak. If the batteries have leaked, dispose of them immediately. Avoid touching the leaked material or letting it come into contact with clothing, etc. Clean the battery compartment thoroughly before installing new batteries.
- Do not throw away batteries with general house waste. Dispose of them correctly in accordance with your local regulations.
- Keep batteries away from children. If a battery is accidentally swallowed, contact your doctor immediately.
- When not planning to use the remote control for long periods of time, remove the batteries from the remote control.
- Do not charge or disassemble the supplied batteries.

## WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

As long as this unit is connected to the AC wall outlet, it is not disconnected from the AC power source even if you turn off this unit by . In this state, this unit is designed to consume a very small quantity of power.

## (Power key)

Turns on the power of this unit or sets it to the standby mode.

## FOR U.K. CUSTOMERS

If the socket outlets in the home are not suitable for the plug supplied with this appliance, it should be cut off and an appropriate 3 pin plug fitted. For details, refer to the instructions described below.

## NOTE

The plug severed from the mains lead must be destroyed, as a plug with bared flexible cord is hazardous if engaged in a live socket outlet.

## SPECIAL INSTRUCTIONS FOR U.K. MODEL

### IMPORTANT

THE WIRES IN THE MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE:

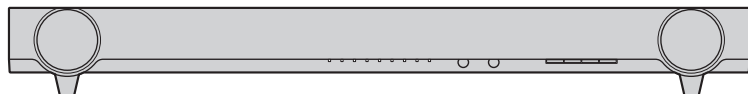
Blue: NEUTRAL  
Brown: LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

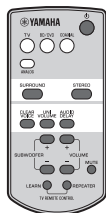
The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED. Making sure that neither core is connected to the earth terminal of the three pin plug.

# Supplied items

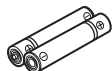
Make sure you have received all of the following items.



Sound bar



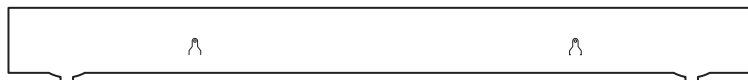
Remote control



Battery x 2  
(AAA, R03, UM4)



Optical cable (1.5 m [4.9 ft])



Mounting template

\* Using when attaching the sound bar to a wall



Spacer x 2

\* Using when attaching the sound bar to a wall

## Information for Users on Collection and Disposal of Old Equipment and Used Batteries



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.



**[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.

### 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.

**Pb**

# Features

Enjoy powerful and realistic sound from the sound bar with built-in subwoofer, and easy installation and connection to a TV and other devices.

## • AIR SURROUND XTREME

Enjoy 7.1 channel surround sound, which creates a wide and deep soundstage, as if speakers are set not only on the left and right, but also behind of the listener (p.9).

## • Sophisticated sound technology

Enjoy powerful bass sound for the surround playback with the Yamaha original bass boost technology.

## • TV's remote control learning function

Operate the sound bar with the TV's remote control (p.10).

## • TV Remote Repeater function

Enables the TV's remote signal to path through the sound bar. If the installed sound bar blocks the TV's remote sensor, the TV's remote will not work. This function provides a convenient solution (p.12).

## • Clear voice

Makes voice sound (such as dialogues and narrations) clear (p.9).

## • UniVolume

Maintains consistent volume between channels, programs, commercials and sound sources (p.9).

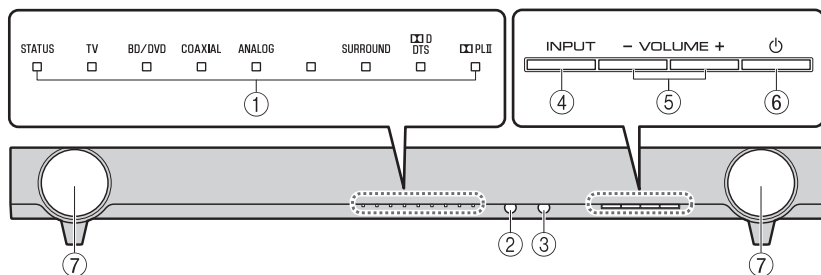
# Frequently asked questions

The following section covers popular functions and frequently asked questions about the sound bar.

- |    |  |
|----|--|
| Q1 | <b>Can I operate the sound bar using the remote control of the TV?<br/>Switching between the remote controls of the TV and sound bar is inconvenient.</b>  |
| A1 | Yes. You can control the sound bar using your TV's remote control by the "TV's remote control learning" function (p.10).<br><br>This function is available only for the IR (infrared) remote control. Check your TV's remote control type. |
| Q2 | <b>The TV's remote control does not work after the sound bar is installed in front of the TV.</b>  |
| A2 | The sound bar will transmit TV's remote control signals by the "TV Remote Repeater" function (p.12).<br><br>This function is available only for the IR (infrared) remote control. Check your TV's remote control type.                     |
| Q3 | <b>Can I make voice sound more clear?</b>  |
| A3 | Yes. Dialogue in movies, TV news or sports programs, etc., can be made clearer using the "clear voice" function (p.9).   |
| Q4 | <b>How do I connect the sound bar if the TV does not have an optical output?</b>   |
| A4 | If the TV has analog audio outputs (red and white terminals), connect to ANALOG input of the sound bar with an RCA stereo cable (p.7). In this case, select ANALOG for the input source of the sound bar (p.8).                            |
| Q5 | <b>Can I set the sound bar to turn off automatically when I am not using it?</b>   |
| A5 | Yes. Using the "auto power standby" function, the sound bar can be automatically turned off when it is not being used (p.12).  |

# Part names and functions (sound bar)

## Sound bar (front panel)



### ① Indicators

Indicate the status of the sound bar. The indicators will dim automatically if no operations are performed for 5 seconds. Refer to “Operations” (p.8 to 9) for the main functions of the indicators.

### ② Remote control sensor

Receives infrared signals from the remote control of the sound bar (p.8).

### ③ TV's remote control sensor

Receives infrared signals from the TV's remote control when the TV Remote Repeater function is enabled (p.12).

### ④ INPUT key

Selects an input source to be played back.

### ⑤ VOLUME (+/-) keys

Adjust the volume (p.8).

### ⑥ (power) key

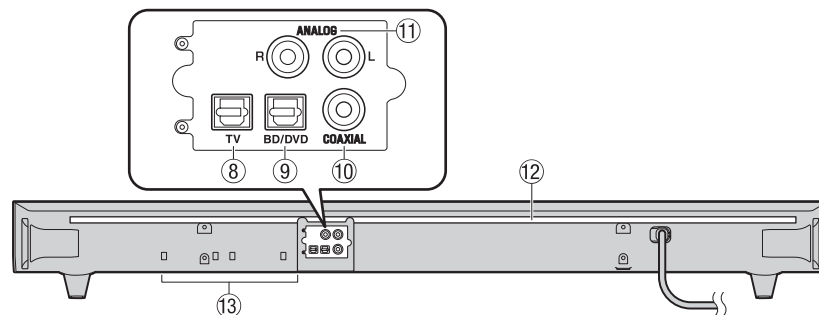
Turns on or off (standby) the sound bar (p.9).

#### HINT

- The sound bar may automatically turn off when the auto power standby function is enabled (p.12).

### ⑦ Speakers

## Sound bar (rear panel)



### ⑧ TV input jack

For connecting to a TV with an optical cable (p.6).

### ⑨ BD/DVD input jack

For connecting to a playback device, such as a Blu-ray Disc (BD) player, with an optical cable.

### ⑩ COAXIAL input jack

For connecting an external device with a coaxial digital cable (p.7).

### ⑪ ANALOG input jacks

For connecting an external device with an RCA stereo cable (p.7).

### ⑫ IR flasher for TV Remote Repeater

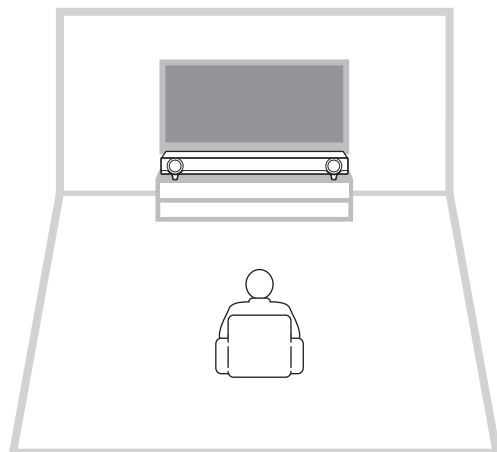
Transmits TV's remote control signals received at the remote control sensor to the TV (p.12).

### ⑬ Dual built-in subwoofers

The built-in subwoofers are located in the bottom part of the sound bar.

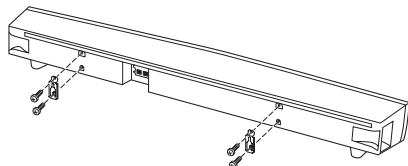
# Installation

Place the sound bar on a flat surface such as on top of a TV cabinet.



## Cautions

- Do not place the sound bar on/under any other devices such as BD player in a pile. Doing so may cause a malfunction due to vibrations.
- Do not touch the grilles (fabric parts) on the front of the sound bar.
- The sound bar contains acoustic suspension speakers. Do not place magnetically sensitive items (hard disk drive, etc.) near the sound bar.
- Depending on your installation environment, it may be better to connect the sound bar and external devices (such as a TV) before installing the sound bar.
- Do not place the sound bar within 50 mm (2") of the TV. The wall mount brackets on the rear panel can be removed as necessary.

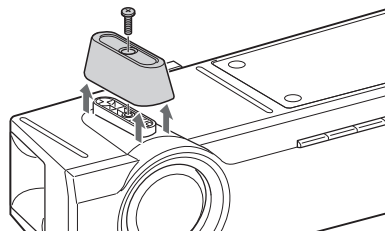


## Removing the stands

When the sound bar blocks the view of the lower part of the TV screen or the remote control sensor of the TV, remove the stands (18 mm [3/4"]) of the sound bar to adjust its height.

### HINT

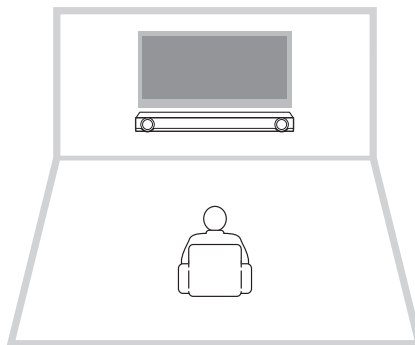
- Use the TV Remote Repeater function (p.12) to transmit TV's remote control signals via the sound bar.



### NOTE

- Keep the stands and screws in a safe place for future use.

## Attaching the sound bar to a wall

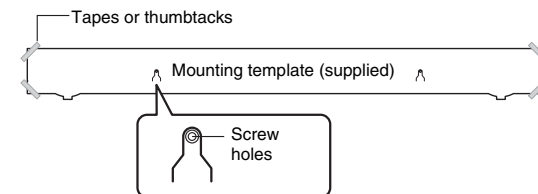


## Cautions

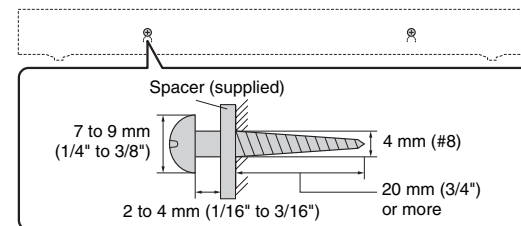
- When installing the sound bar on a wall, all installation work must be performed by a qualified contractor or dealer. The customer must never attempt to perform this installation work. Improper or inadequate installation could cause the sound bar to fall, resulting in personal injury.
- Do not attach the sound bar to a wall that is made of weak materials such as plaster or veneered woods. Doing so may cause the sound bar to fall.
- Make sure you use commercially available screws that can support the weight of the installation (specified in Step 2 on the right). Using clamps other than specified screws, such as short screws, nails, and two-sided tape, may cause the sound bar to fall.

## How to install on the wall

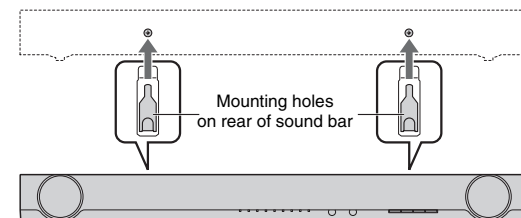
### 1 Attach the mounting template on a wall and mark for the screw holes.



### 2 Remove the mounting template from the wall, then install commercially available screws and supplied spacers (as illustrated below) at the points marked on the wall.



### 3 Hang the sound bar on the screws.



## Cautions

- Fix the cables in place where they will not become loose. If your foot or hand accidentally gets caught on a loose cable, the sound bar may fall.
- Check that the sound bar is fixed securely after the installation. Yamaha will bear no responsibility for any accidents caused by improper installations.

# Connections

Connect to a TV (or other peripheral device).

## CAUTIONS

- Do not connect the power cable of the sound bar to the AC wall outlet before making connections.
- Do not use excessive force when inserting the cable plug. Doing so may damage the cable plug or AC wall outlet.

### 1 Connect the TV and sound bar with the optical cable (supplied).

Remove the cap of the optical cable and check the direction of the plug.



### 2 Connect the power cable of the sound bar to an AC wall outlet.

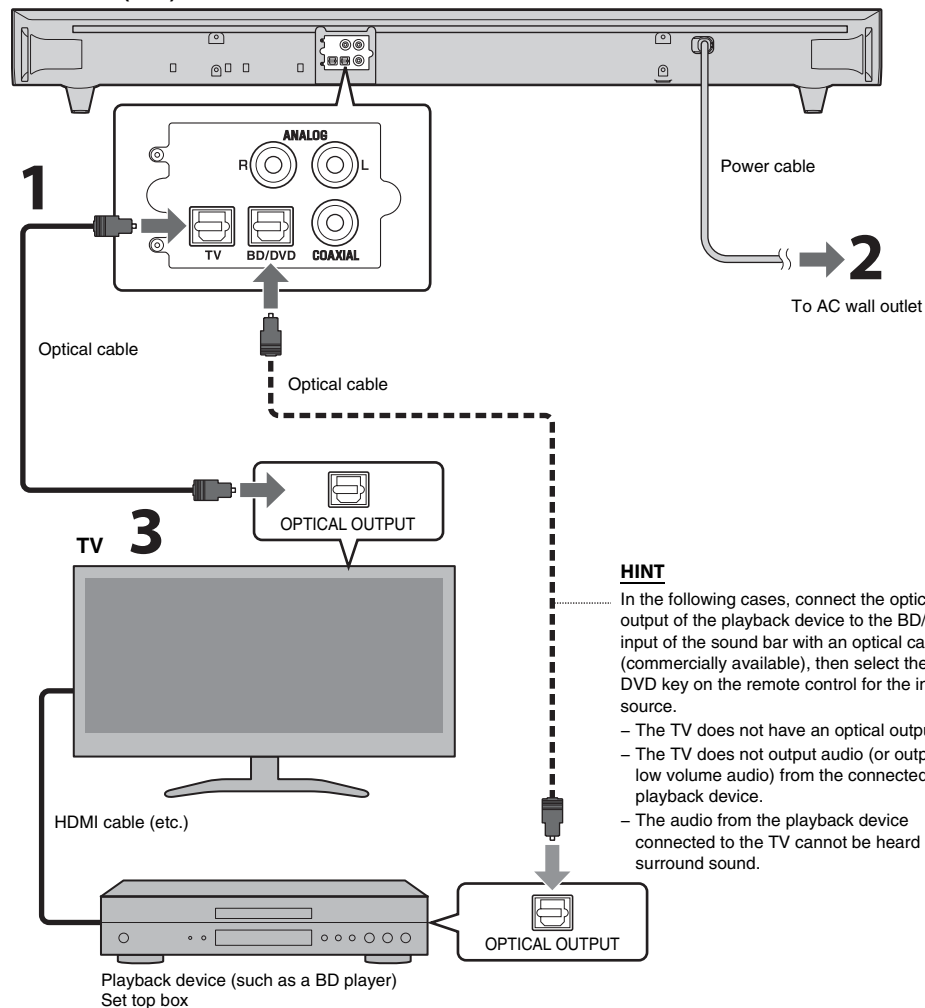
### 3 Set the TV as follows.

- Set the TV volume to minimum.
- Disable the TV built-in speaker output (if available).

## HINT

- If a setting to disable the speaker output is not available on your TV, you may disable it by connecting headphones to the headphone jack on the TV. For details, refer to the manuals of the TV.
- The TV, BD/DVD and COAXIAL input jacks support the following audio signals.
  - PCM (2 channel)
  - Dolby Digital (up to 5.1 channel)
  - DTS Digital Surround (up to 5.1 channel)

## Sound bar (rear)



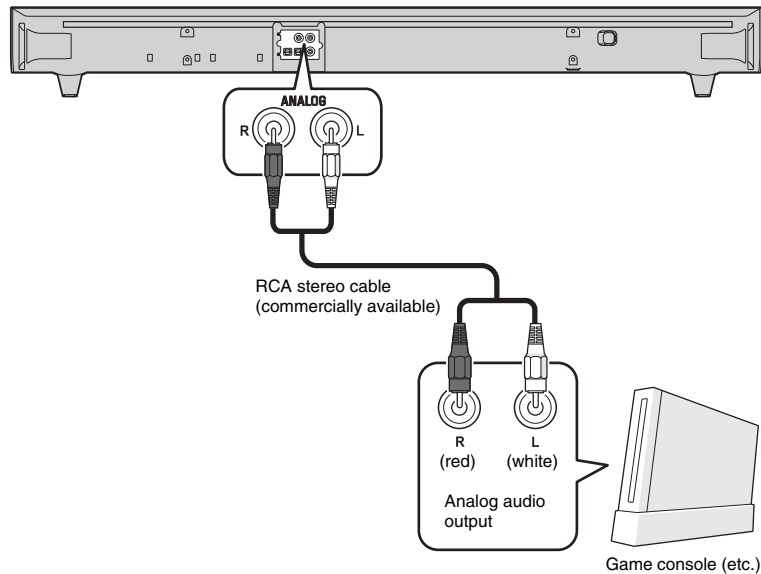
## HINT

In the following cases, connect the optical output of the playback device to the BD/DVD input of the sound bar with an optical cable (commercially available), then select the BD/DVD key on the remote control for the input source.

- The TV does not have an optical output.
- The TV does not output audio (or outputs low volume audio) from the connected playback device.
- The audio from the playback device connected to the TV cannot be heard as surround sound.

## Analog connection of an external device (game console)

You can connect an external device, such as a game console or TV that does not have an optical output, to the ANALOG input jacks of the sound bar.

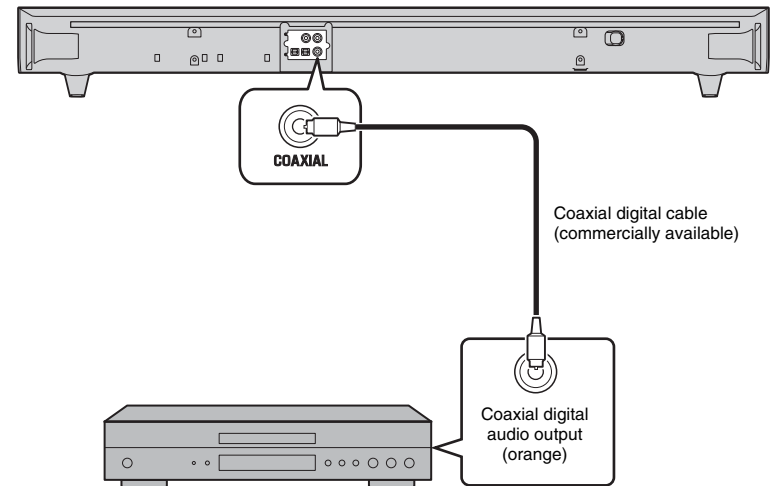


### NOTE

- Make sure the left (L) and right (R) channels are connected correctly.
- Select the ANALOG key on the remote control for the input source.

## Digital connection of an external device

You can connect an external device that has a coaxial digital audio output, such as a DVD player, to the COAXIAL input jack of the sound bar.



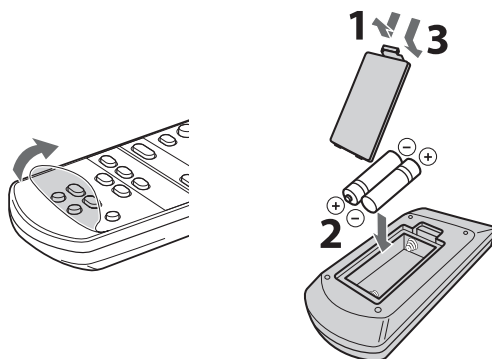
### NOTE

- Select the COAXIAL key on the remote control for the input source.

# Operations

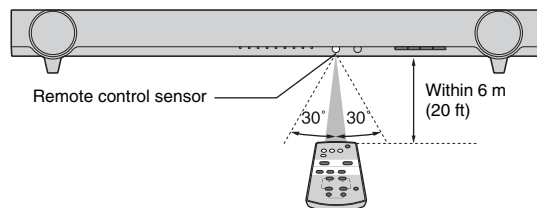
## Preparing the remote control

Peel off the protection sheet before use.



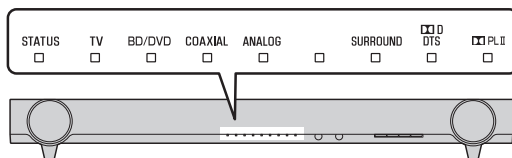
## Operating range of the remote control

Remain within the operating range shown below.



## Indicators

The indicators on the front panel flash or light up, to indicate the operation and setting status.



## Input keys

Select an input source to be played back.

- TV** ..... TV audio
- BD/DVD** ..... Audio from a device connected to the BD/DVD input jack
- COAXIAL** ..... Audio from a device connected to the COAXIAL input jack
- ANALOG** ..... Audio from a device connected to the ANALOG input jack

The indicator for the selected input source lights up.  
(Example: when TV is selected)



### HINT

- To play audio of the playback device connected to the TV or to watch videos of the playback device, set the TV's input source to the playback device.

## SUBWOOFER keys (+/-)

Adjust the volume of the subwoofer.



## VOLUME keys (+/-)

Adjust the volume of the sound bar.

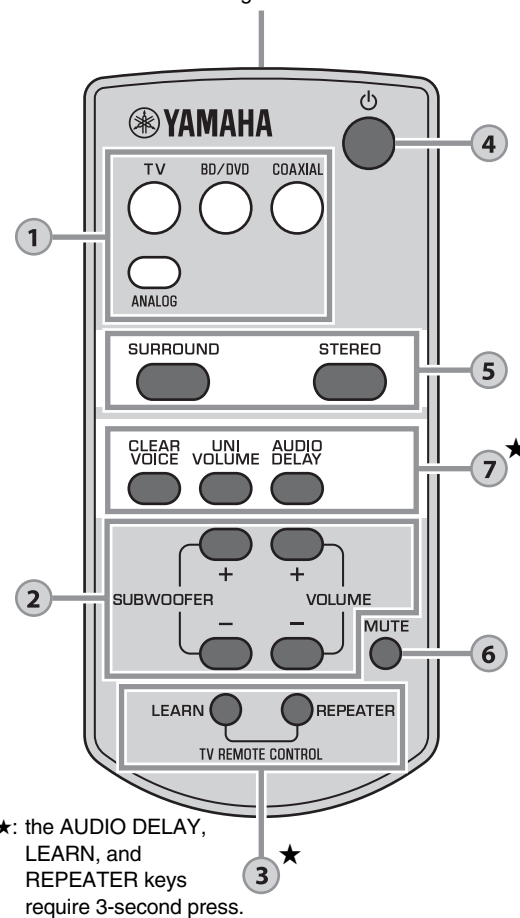


## LEARN key★

Sets the sound bar to the TV's remote control learning mode (p.10).

## Remote control signal transmitter

Transmits infrared signals.



★: the AUDIO DELAY, LEARN, and REPEATER keys require 3-second press.

## REPEATER key★

Enables/disables the TV Remote Repeater function (p.12).

#### ⏻ (power) key

Turns on or off (standby) the sound bar.

STATUS ■ Green (turned on)

STATUS □ Off (turned off)

4


#### SURROUND and STEREO keys


Switch between surround and stereo (2 channel) playback. When surround playback is selected, you can enjoy a realistic sound effect using Yamaha's exclusive AIR SURROUND XTREME.

SURROUND ■ Lights up (surround playback)

STEREO ■ Off (stereo playback)

##### HINT






- When 2 channel stereo signals are played in surround, the  PLII indicator lights up.

 Lights up (Dolby Pro Logic II)

5

#### MUTE key

Mutes the audio output. Press the key again to unmute.

□        □  
Flash (on mute)

6

#### CLEAR VOICE key

Enables/disables the clear voice function. When this function is enabled, you can enjoy clear voice sounds while watching movies, TV dramas, news programs or sports programs.

□ □ □    □ □ □  
Flash 3 times (enabled), flash once (disabled)

7

#### UNIVOLUME key

Enables/disables the UniVolume function. When this function is enabled, consistent volume is maintained between channels, programs, commercials and sound sources.

□ □ □    □ □ □  
Flash 3 times (enabled), flash once (disabled)

#### AUDIO DELAY key★

Adjusts the audio delay to synchronize the sound with the video when the video image on the TV may seem delayed with respect to the sound. Follow the procedure below to adjust the audio delay.

- Hold down AUDIO DELAY for more than 3 seconds.**

The left most indicator flashes.

 □ □ □ □ □ □ □ □ □

- Press SUBWOOFER (+/-) to adjust the audio delay.**

 ■ □ □ □ □ □ □ □ □ □

Smaller delay (-)

Larger delay (+)


- To finish the adjustment, press AUDIO DELAY.**

##### HINT

- The adjustment will be finished automatically if no operations are performed for 20 seconds.

#### Decoder indication

The sound bar supports the following audio signals. You can check the type of the input audio signal by the color of the indicator.

  Green (Dolby Digital), Red (DTS Digital Surround)  
■  
  Off (PCM)  
□

# Settings

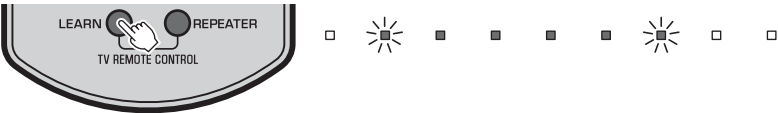
## Programming the sound bar with the TV's remote control (TV's remote control learning function)

Once you program the sound bar, you can control it with your TV's remote control for functions such as turning on/off the TV and sound bar simultaneously, or volume up/down and muting/unmuting of the sound bar.

### NOTE

- This function is available only when your TV's remote control uses IR (infrared) signal.
- An RF (Radio Frequency) remote control will not work.
- If you want to use a cable or satellite set top box's remote control to operate the sound bar, use your original TV's IR (infrared) remote control to program the sound bar, then use the set top box's remote control to operate.
- If by changing the volume of the sound bar the TV's volume also changes, set the TV's volume to minimum, or disable speaker output.

- 1 Turn off the TV.
- 2 Turn off the sound bar.
- 3 Hold down the LEARN key on the sound bar's remote control for more than 3 seconds to set the sound bar to the learning mode.  
When the sound bar is in the learning mode, the indicators on the front panel flash as shown below.



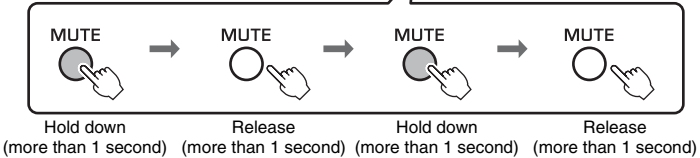
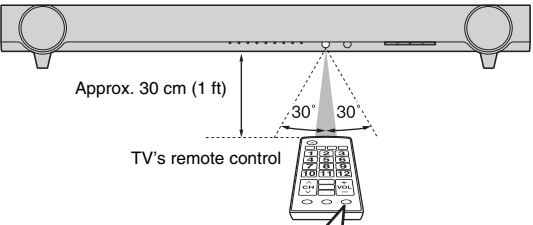
### NOTE

- Steps 4 to 7 require only the TV's remote control and the keys on the front panel of the sound bar. The remote control of the sound bar is not necessary.
- If the sound bar has already learned functions, the following indicator light up.  
Mute: BD/DVD  
Volume (-): COAXIAL  
Volume (+): ANALOG  
Power: (Blank)

- 4 Teach the sound bar the "Mute" code of the TV's remote control.  
4-1 Press INPUT on the front panel of the sound bar.



- 4-2 While pointing your TV's remote control at the remote control sensor, hold down the mute key for more than 1 second twice or three times.



Result	Bleep/buzzer	Indicators
Successfully learned	Once	Lights up
Failed to learn * Repeat from Step 4-1.	Twice	Flash

- 5 Teach the sound bar the "Volume (-)" code of the TV's remote control.

- 5-1 Press VOLUME (-) on the front panel of the sound bar.



- 5-2 While pointing your TV's remote control at the remote control sensor, hold down the volume (-) key for more than 1 second twice or three times.

Result	Bleep/buzzer	Indicators
Successfully learned	Once	Lights up
Failed to learn * Repeat from Step 5-1.	Twice	Flash

6 Teach the sound bar the “Volume (+)” code of the TV’s remote control.

6-1 Press VOLUME (+) on the front panel of the sound bar.



6-2 While pointing your TV’s remote control at the remote control sensor, hold down the volume (+) key for more than 1 second twice or three times.

Result	Bleep/buzzer	Indicators
Successfully learned	Once	<div><div>□</div><div></div><div>□</div><div>□</div><div></div><div>□</div><div></div><div>□</div><div>□</div></div> <div>Lights up</div>
Failed to learn * Repeat from Step 6-1.	Twice	<div><div>□</div><div></div><div></div><div></div><div></div><div></div><div></div><div>□</div><div>□</div></div> <div>Flash</div>

7 Teach the sound bar the “Power” code of the TV’s remote control.

7-1 Press (power) on the front panel of the sound bar.



7-2 While pointing your TV’s remote control at the remote control sensor, hold down the power key for more than 1 second twice or three times.

Result	Bleep/buzzer	Indicators
Successfully learned	Once	<div><div>□</div><div></div><div>□</div><div>□</div><div>□</div><div></div><div>□</div><div>□</div></div> <div>Lights up</div>
Failed to learn * Repeat from Step 7-1.	Twice	<div><div>□</div><div></div><div></div><div></div><div></div><div></div><div></div><div>□</div><div>□</div></div> <div>Flash</div>

8 To finish the learning mode, press the LEARN key on the sound bar’s remote control.

This completes the necessary settings. Now you can operate the sound bar with the TV’s remote control’s mute key, volume keys, or power key.

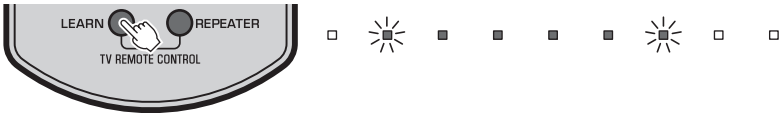
HINT

- The learning mode will be finished automatically if no operations are performed for 5 minutes.
- Set the TV volume to minimum. When you turn up the volume of the sound bar with the TV’s remote control, the volume of the TV may be turned up at the same time. In this case, follow Step 3 in “Connections” (p.6) to change the TV setting.
- You can press the key on the sound bar’s remote control to finish leaning mode.

Clearing all programmed functions

1 With the sound bar turned off, hold down the LEARN key on the sound bar’s remote control for more than 3 seconds. (for entering the learning mode)

When the sound bar is in the learning mode, the indicators on the front panel flash as shown below.



2 Hold down INPUT on the front panel of the sound bar for more than 3 seconds.



If the clearing is completed, you will hear the bleep sound three times.

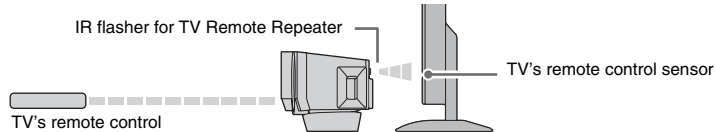
3 Press the LEARN key on the sound bar’s remote control.

## Sending the TV's remote signal through the sound bar (TV Remote Repeater function)

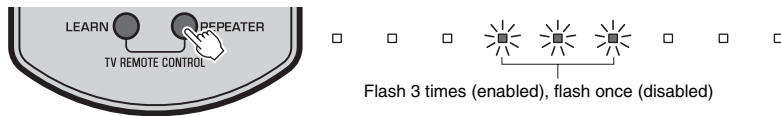
When the TV Remote Repeater function is enabled, the sound bar relays the TV's remote signal received by the front sensor to the rear transmitter. This function should be enabled when you place the sound bar in front of your TV and you cannot operate your TV with the TV's remote control.

### NOTE

- This function is available only when your TV's remote control uses infrared signals.



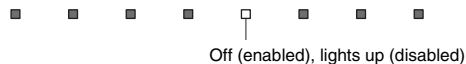
- 1 Turn on the sound bar.
- 2 Hold down the REPEATER key on the sound bar's remote control for more than 3 seconds to enable/disable the TV Remote Repeater function.



This completes the necessary settings. When the TV Remote Repeater function is enabled, you can operate your TV from the TV's remote control via the sound bar.

### HINT

- The TV Remote Repeater function is disabled by default.
- If the power cable of the sound bar is connected to an AC wall outlet and when the TV Remote Repeater function is enabled, the function is usable even when the sound bar is turned off.
- If you have made the sound bar learn the volume (+) operation (p.11), the volume of the TV may be turned up when you turn up the volume of the sound bar with the TV's remote control. In this case, follow Step 3 in "Connections" (p.6) to change the TV setting.
- You can check the status of the TV Remote Repeater function by the center indicator when turning on the sound bar.



## Setting the auto power standby function

By enabling the auto power standby function, you can avoid forgetting to turn off the sound bar after use, or if you fall asleep while watching TV.

### NOTE

- When the auto power standby function is enabled and one of the following conditions is met, the sound bar will automatically turn off.
  - No operations for 8 hours

- 1 With the sound bar turned off, hold down the MUTE key on the sound bar's remote control for more than 3 seconds.

You can check the status of the auto power standby function when turning on the sound bar.



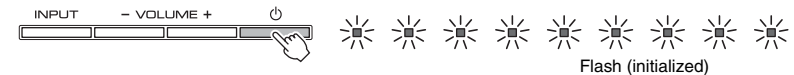
### HINT

- Initial setting varies depending on the country or region.
  - U.K. and Europe models: enabled
  - Other models: disabled

## Initializing the sound bar

Follow the procedure below to initialize the sound bar.

- 1 Turn off the sound bar.
- 2 Hold down the power button on the front panel of the sound bar for more than 3 seconds.




# Troubleshooting

Refer to the table below when the sound bar does not function properly. If the problem you are experiencing is not listed below or if the instructions below do not help, turn off the sound bar, disconnect the power cable, and contact the nearest authorized Yamaha dealer or service center.

First, check the following:

- ① **The power cables of the sound bar, TV and playback devices (such as BD players) are connected to AC wall outlets securely.**
- ② **The sound bar, TV and playback devices (such as BD players) are turned on.**
- ③ **The connectors of each cable are securely inserted in to jacks on each device.**

## Power and system


Problem	Cause	Remedy
<b>The power turns off immediately.</b>	The auto power standby function worked. When the auto power standby function is enabled and one of the following conditions is met, the sound bar will automatically turn off. - No operations for 8 hours	Disable the auto power standby function (p.12).
<b>The power cannot be turned on.</b>	The protection circuitry has been activated three times consecutively. (If you try to turn on the power in this condition, the STATUS indicator flashes.)	For product protection, the power cannot be turned on. Unplug the power cable from the AC wall outlet and contact the nearest authorized Yamaha dealer or service center.
<b>The sound bar is not reacting.</b>	The internal microcomputer is frozen, due to an external electric shock (such as lightning or excessive static electricity) or to a drop in the power supply voltage.	Hold down  (power) on the front panel of the sound bar for more than 10 seconds to reboot it. (If the problem persists, disconnect the power cable from the AC wall outlet and plug it again.)
<b>TV's 3D glasses do not work.</b>	The sound bar is blocking the 3D glasses transmitter of your TV.	Check the position of the 3D glasses transmitter of your TV and adjust the position of the sound bar. If necessary, remove the stands of the sound bar (p.5).

## Audio

Problem	Cause	Remedy
<b>No sound.</b>	Another input source is selected.	Select an appropriate input source (p.8).
	The mute function is activated.	Cancel the mute function (p.9).
	The volume is too low.	Turn up the volume (p.8).
<b>No sound is coming from the subwoofer.</b>	The volume of the subwoofer is too low.	Turn up the volume of the subwoofer (p.8).
	The playback source does not contain low-frequency signals.	Play back a sound source containing low-frequency signals.
<b>The volume decreases when the sound bar is turned on.</b>	The automatic volume adjustment function worked. To prevent excessive loudness, the sound bar automatically controls its volume within a certain level when the sound bar is turned on.	If necessary, turn up the volume (p.8).
<b>No surround effect.</b>	Stereo playback is selected.	Select surround playback (p.9).
	The volume is too low.	Turn up the volume (p.8).
	The TV or playback device is set to output 2 channel audio (such as PCM) only.	Change the digital audio output setting on the TV or playback device to Dolby Digital or BitStream.
	The audio is output from the TV built-in speakers.	Set the TV volume to minimum (p.6).
<b>Noise is heard.</b>	The sound bar is too close to another digital or high-frequency device.	Move those devices away from the sound bar.

## Remote control

Problem	Cause	Remedy
<b>The sound bar cannot be controlled using the remote control.</b>	The sound bar is out of the operating range.	Use the remote control within the operating range (p.8).
	The batteries are weak.	Replace with new batteries (p.8).
	The remote control sensor of the sound bar is exposed to direct sunlight or strong lighting.	Adjust the lighting angle, or reposition the sound bar.
<b>The TV cannot be controlled using the TV's remote control.</b>	The remote control sensor of the TV is blocked by the sound bar.	Use the TV Remote Repeater function (p.12) or remove the stands of the sound bar so that the TV's remote control sensor is not blocked (p.5).
	There may be any problem with the TV or TV's remote control.	Refer to the manuals of the TV.
<b>The TV cannot be controlled by using the TV Remote Repeater function.</b>	The TV Remote Repeater function is disabled.	Enable the TV Remote Repeater function (p.12).
	The TV's remote control does not use infrared signals. (Some remote controls may not work even if it uses infrared signals.)	The TV Remote Repeater function cannot be used in this case. Adjust the position of the sound bar so that the remote control sensor of the TV is not blocked by the sound bar and use the TV's remote control to operate the TV.
	The sound bar and TV are too close or too far from one another.	Move the sound bar away from the TV more than 50 mm (2") (p.5). If necessary, remove or attach the stands of the sound bar to adjust height for the IR flasher (for TV Remote Repeater) of the sound bar positioning in front of the remote control sensor of the TV (p.5).
	There is any obstacle (such as cables) between the sound bar and TV.	Remove the obstacle between the sound bar and TV.
	TV is not receiving the remote control signal well since the signals from the TV's remote control and IR flasher (for TV Remote Repeater) of the sound bar are interfering.	Disable the TV Remote Repeater function (p.12).

<b>The sound bar does not learn TV's remote control operations.</b>	The TV's remote control key was not held down long enough.	Hold down the key for more than 1 second twice or three times (p.10).
	The TV's remote control does not use infrared signals. (Some remote controls may not work even if it uses infrared signals.)	The TV's remote control learning function cannot be used in this case. Use the sound bar's remote control to operate the sound bar.
	The position where you operated the TV's remote control is not appropriate.	Operate the TV's remote control at the appropriate position (p.10).
	The batteries of the TV's remote control are weak.	Replace with new batteries.
	The remote control sensor of the sound bar is exposed to direct sunlight or strong lighting.	Adjust the lighting angle, or reposition the sound bar.
	The transmission of the remote control signal was disturbed by the TV screen light.	Turn off the TV and perform the learning operation again (p.10).
<b>Sound is coming from the TV when the sound bar volume is turned up with the TV's remote control. (when TV's remote control learning function is used)</b>	Audio output is enabled on the TV.	Change the TV setting to disable the TV speaker output. If a setting to disable the speaker output is not available on your TV, try the following methods. - Connect headphones to the headphone jack on the TV. - Set the TV volume to minimum.
<b>The power of the sound bar and of the TV switch in the opposite direction. (For example, the TV is turned off if the sound bar is turned on.) (when TV's remote control learning function is used)</b>	The power of the TV was on when you performed the learning operation.	Press the power key on the TV and  (power) on the front panel of the sound bar to turn on them and then press the power key on the TV's remote control to turn off them.

# Specifications

Item		specifications
Amplifier Section	Maximum Rated Output Power	Front L/R 30 W x 2 ch
		Subwoofer 60 W
Front Speaker Section	Type	Acoustic suspension type (Non-magnetic shielding type)
	Driver	6.5 cm (2-1/2") cone x 2
	Frequency Response	150 Hz to 22 kHz
Subwoofer Section	Type	Bass reflex type (Non-magnetic shielding type)
	Driver	7.5 cm (3") cone x 2
	Frequency Response	50 Hz to 150 Hz
Decoder	Supported audio signal (TV, BD/DVD)	PCM (2ch) Dolby Digital DTS Digital Surround
Input Jacks	Digital (Optical)	2 (TV, BD/DVD)
	Digital (Coaxial)	1 (COAXIAL)
	Analog (RCA)	1 (ANALOG)
General	Power Supply	U.S.A. and Canada models: AC 120 V, 60Hz Taiwan model: AC 110—120 V, 50/60Hz Other models: AC 220—240 V, 50/60Hz
	Power Consumption	22 W
	Standby Power Consumption	Less than 0.5 W
	Dimensions (W x H x D)	890 x 91 x 115 mm (not including stands and brackets) (35" x 3-5/8" x 4-1/2")
		890 x 109 x 121 mm (including stands and brackets) (35" x 4-1/4" x 4-3/4")
	Weight	4.0 kg (8.8 lbs)

\* Specifications are subject to change without notice.



This system employs new technologies and algorithms that make it possible to achieve 7.1 channel surround sound with only front speakers, and without using wall reflections.

## UniVolume

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