

SHARP®

ENGLISH

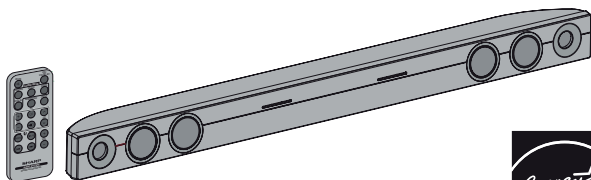
MODEL

HT-SB20

HT-SB30

SOUND BAR HOME THEATER SYSTEM

OPERATION MANUAL



(HT-SB30 only)

The *Bluetooth*® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by SHARP is under license. Other trademarks and trade names are those of their respective owners.

Note: This product is recommended for flat panel TV (LED, LCD and plasma).

Caution: Before operating this product, refer "IMPORTANT SAFEGUARDS AND WARRANTY" at the reverse page of English operation manual.








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SHARP CORPORATION
Printed in Malaysia
13A RAS ①

Accessories

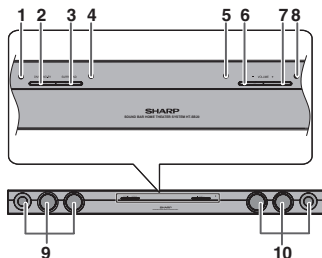
The following accessories are included.

 <p>Remote control x 1 (RRMCGA326AWSA: HT-SB20) (RRMCGA322AWSA: HT-SB30)</p>	 <p>AC/DC adaptor x 1 (RADPAA096AWZZ)</p>	 <p>AC power cord x 1 (QACCDAA005AWZZ)</p>
 <p>Audio cable x 1 (QCNWGA087AWPZ)</p>	 <p>Pattern paper x 1 (TCAUHA034AWZZ)</p>	

The illustrations printed in this manual are for the model HT-SB30.

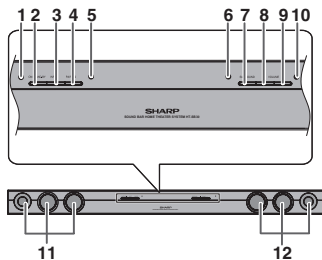
Controls and indicators

■ Front Panel (HT-SB20)



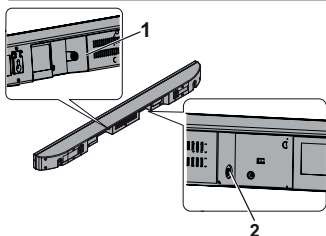
1. On/Stand-by Indicator
2. On/Stand-by Button
3. Surround Button
4. Surround Indicator
5. Volume Indicator
6. Volume Down Button
7. Volume Up Button
8. Remote Sensor
9. Left Channel Speakers
10. Right Channel Speakers

■ Front Panel (HT-SB30)



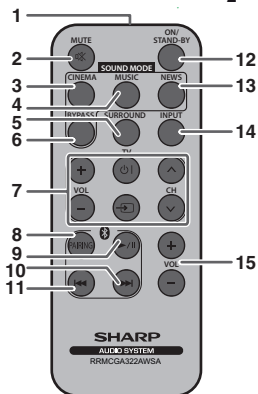
1. On/Stand-by Indicator
2. On/Stand-by Button
3. Input Button
4. Pairing Button
5. Pairing Indicator
6. Surround Indicator
7. Surround Button
8. Volume Down Button
9. Volume Up Button
10. Remote Sensor
11. Left Channel Speakers
12. Right Channel Speakers

Controls and indicators (continued)



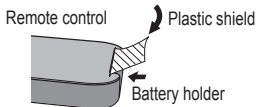
■ Rear Panel

1. DC In Jack
2. Audio In Jack



■ Remote Control

1. Remote Control Transmitter
2. Mute Button
3. Cinema (Sound Mode) button
4. Music (Sound Mode) button
5. Surround Button
6. Bypass (Sound Mode) button
7. TV Operation Buttons (only SHARP TV)
8. Bluetooth Pairing Button (HT-SB30 only)
9. Bluetooth Play/Pause Button (HT-SB30 only)
10. Bluetooth Skip Up Button (HT-SB30 only)
11. Bluetooth Skip Down Button (HT-SB30 only)
12. On/Stand-by Button
13. News (Sound Mode) button
14. Input Button (HT-SB30 only)
15. Volume Up/Down Buttons



Note:

Before using remote control, please remove plastic shield at battery holder.

TV Operation Buttons (Only SHARP TV):

On/Stand-by Button		Sets the TV power to "ON" or "STAND-BY".	Input Select Button (TV)		Press the button to switch the input source.
Volume Up and Down Buttons		Turn up/down the TV volume.	Channel Up and Down Buttons		Switch up/down the TV channels.

Note: ● Some models of SHARP TV may not be operable.

● SHARP TV remote control will not work with HT-SB20/HT-SB30 system.

System preparation

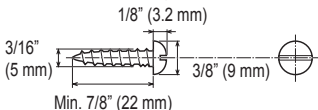
To mount the sound bar on the wall

Caution:

- Be very careful to prevent the sound bar [5.07 lbs. (2.3 kg)] from falling when mounting on the wall.
- Before mounting, check the wall strength. (Do not put on the veneer plaster or whitewashed wall. The sound bar may fall.) If unsure, consult a qualified service technician.
- Mounting screws are not supplied. Use appropriate ones.
- Check all wall mount angle screws for looseness.
- Select a good location. If not, accidents may occur or the sound bar may get damaged.
- **SHARP is not responsible for accidents resulting from improper installation.**

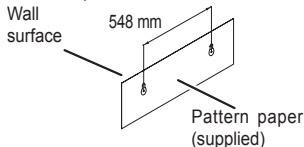
■ Driving screws

SHARP designed the sound bar so you may hang it on the wall. Use proper screws (not supplied). See below for size and type.

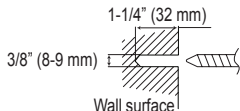


■ Installing the sound bar

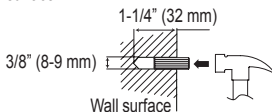
- 1 Fix the pattern paper to the wall in horizontal position as below.



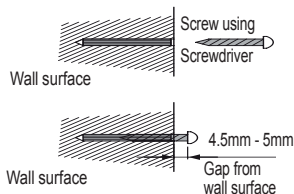
- 2 Make a hole on the wall following the screw point marks on the pattern paper by using a drill.



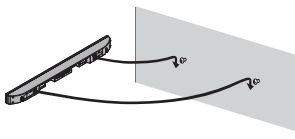
- 3 Fix a wall mount plug into the hole using a hammer, until it is flush with the wall surface.



- 4 Fasten the screws to the wall as shown below. (Total screw is 2 pieces)

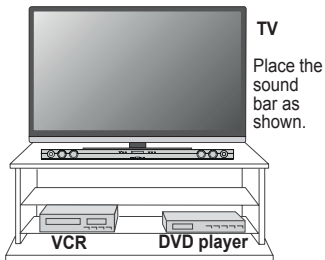


- 5 Hang the sound bar onto the screws.



Placing the sound bar

Installation image:



Notes:

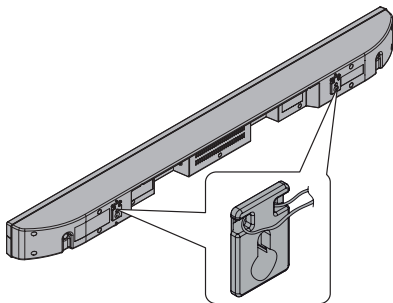
- Remove the protective film covering the sound bar before turning on the system.
- The front panel of the sound bar is not removable.

Caution:

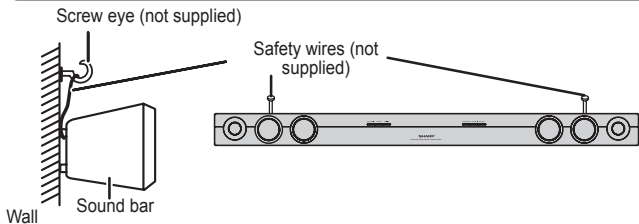
- Do not change the installation direction when the sound bar is turned on.
- Do not stand or sit on the sound bar as you may be injured.

Falling prevention

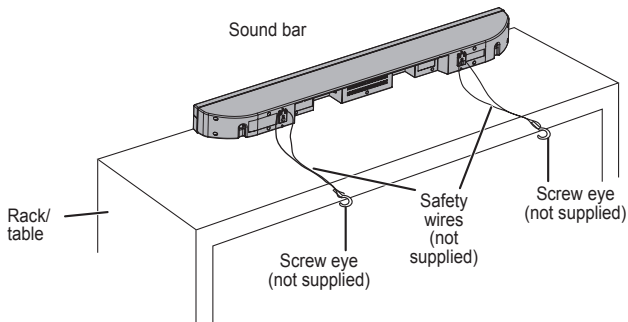
- Safety wires (not supplied) are useful to prevent the sound bar from falling.



■ When mounting on the wall



■ When placing on the shelf/table



Sound bar connections to TVs

Caution:

Turn off all other equipment before making any connections.

Notes:

- To connect to TV, use Audio IN terminals located at the rear of the sound bar.
- Refer the operation manual of the equipment to be connected.
- Fully insert the plugs to avoid fuzzy pictures or noises.
- In some cases, a small background noise could emit from the sound bar, when you use the RCA audio output terminal connection from a TV-Set/DVD/Blu-ray Disc Player. In such case, please change the connection to the headphone terminal connection. This effect depends on the used TV/DVD/Blu-ray Disc Player-Brand, model and age, and it is not a quality matter from the sound bar.
- If the TV volume is continuously at low level, the sound bar will automatically power off. Increase the TV output volume to enjoy the sound from the speaker.

■ Connecting a TV, or DVD player, etc.

If the TV/monitor has an audio output, connect it to the Audio IN jack on the rear of the sound bar.

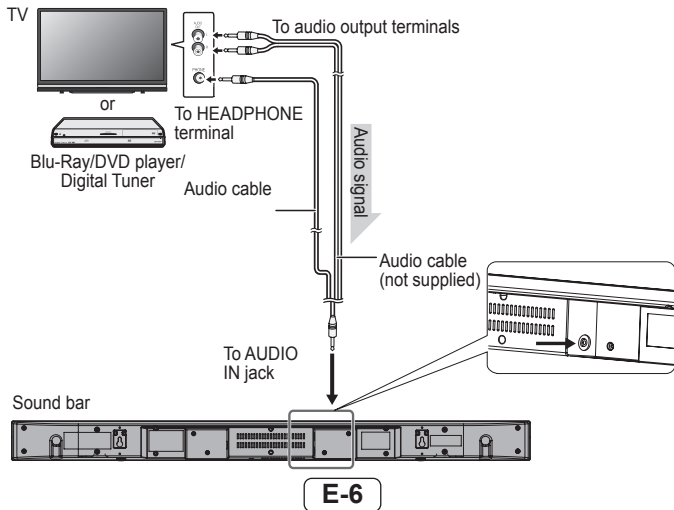
HT-SB30

To select AUDIO IN function:

Press INPUT button repeatedly.

To select Bluetooth function:

Press INPUT button repeatedly. (PAIRING indicator turns blue.)



AC power connection

After checking all the connections have been made correctly, connect the AC power cord to the AC power input jack, then to the AC outlet.

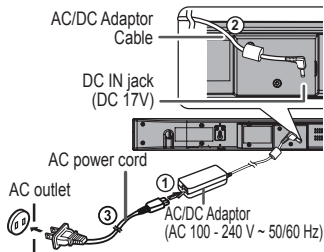
■ Using with the AC/DC adaptor

- ① Plug the AC power cord into the AC/DC adaptor.
- ② Plug the AC/DC adaptor cable into the DC INPUT jack on the sound bar.
- ③ Plug the AC power cord into an AC outlet. The STAND-BY indicator turns VIOLET.

Notes:

- Unplug the AC/DC adaptor from the AC outlet if the sound bar will not be used for a prolonged period of time.
- Use only the supplied AC/DC adaptor. Using other AC/DC adaptor may cause an electric shock or fire.

Make sure to unplug the AC power cord before making any connections.



Remote control

Battery installation



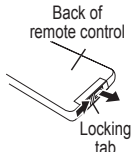
WARNING

DO NOT INGEST BATTERY, CHEMICAL BURN HAZARD

- The remote control supplied with this product contains a coin/button cell battery. If the coin/button cell battery is swallowed, it can cause severe internal burns in just two (2) hours and can lead to death.
- Keep new and used batteries away from children. If the battery compartment does not close securely, stop using the product and keep it away from children.
- If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.

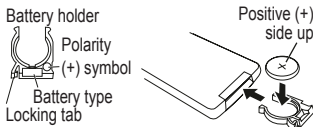
This product contains a CR Coin Lithium Battery which contains Perchlorate Material – special handling may apply. California residents, see www.dtsc.ca.gov/hazardouswaste/perchlorate/

- 1 While pushing the locking tab towards the center of the remote control, slide out the battery holder.



- 2 Remove the old battery from the

battery holder, insert the new battery and then slide the battery holder back into the remote control.



Precautions for battery use:

Remove the battery if the sound bar will not be used for a long period of time. This will prevent potential damage due to battery leakage.

Caution:

- Do not use rechargeable battery (nickel-cadmium battery, etc.).
- Danger of explosion if battery is incorrectly replaced.
- Replace only with the same or equivalent type.
- Batteries (battery pack or batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.
- Installing the battery incorrectly may cause the sound bar to malfunction.

Notes concerning use:

- Replace the battery if the operating distance is reduced or if the operation becomes erratic. Purchase "CR 2025", coin lithium battery.
- Periodically clean the transmitter on the remote control and the sensor on the sound bar with a soft cloth.
- Exposing the sensor on the sound bar to strong light may interfere with operation. Change the lighting or the direction of the sound bar if this occurs.
- Keep the remote control away from moisture, heat, shock, and vibrations.

General control

■ To turn the power on

Press the **ON/STAND-BY** button.
The **STAND-BY** indicator turns **BLUE**.

Note:

If the power does not turn on, check whether the power cord is plugged in properly.

To set the sound bar to stand-by mode:
Press the **ON/STAND-BY** button again. The **STAND-BY** indicator turns **RED**.

■ Volume auto fade-in

If you turn off and on the sound bar again, volume will start at lower level and gradually increase to the last set level.

■ Volume control

Sound bar operation:

Press volume up (**VOLUME +**) to increase the volume and press volume down (**VOLUME -**) to decrease the volume.

Remote control operation:

Press the **VOL +** button to increase the volume and the **VOL -** button to decrease the volume.

Note:

When volume is maximum or minimum:

HT-SB20

The **VOLUME** indicator: blinks 3 times

HT-SB30

The **SURROUND** indicator: blinks 3 times

■ Muting

The volume is muted temporarily when pressing the **MUTE** button on the remote control. Press again to restore the volume.

■ Surround

When the **SURROUND** button is pressed, the **SURROUND** sound is **ON**. (**SURROUND** indicator lights up (**ORANGE**))

■ Sound Mode

Remote control operation:

Press the desired sound mode button on the remote control.

HT-SB20

The **VOLUME** indicator: blinks once

HT-SB30

The **SURROUND** indicator: blinks once

CINEMA	(for cinema sound effect)
MUSIC	(for standard sound effect)
NEWS	(for news)
BYPASS	(for flat sound effect)

■ Function

HT-SB20

When the sound bar is connected to the TV/DVD, etc., the **AUDIO IN** function is ready to be used.

HT-SB30

When the **INPUT** button is pressed, the input source will change.

- ① **Audio In Function** - the pairing indicator turns off.
- ② **Bluetooth Function** - the pairing indicator turns blue.

Note:

The backup function will protect the memorized function mode for a few hours should there be a power failure or the AC power cord becomes disconnected.

Auto power on function:

- When stand-by indicator is **VIOLET**, the sound bar will automatically power **ON** if it detects audio signal from connected equipment, unless it is turned off manually (**STAND-BY** indicator turns red).

Auto power off and auto detect signal:

- The sound bar will automatically go to stand-by mode (**STAND-BY** indicator turns **VIOLET**) if:
Audio In: no audio signal is detected within 20 minutes.
Bluetooth: in the inactivity or pause mode for 1 minute

Listening to *Bluetooth* enabled devices (for HT-SB30)

■ About *Bluetooth* technology

Bluetooth wireless technology is a short-range radio technology that enables wireless communication between various types of digital devices, such as mobile phone or computer. It operates within a range of about 10 meters (30 feet) without the hassle of having to use cables to connect these devices. Since the *Bluetooth* technology does not require line of sight between the communicating devices, it is not necessary to line up the transmitting device and the receiver, as in the case of infrared technology.

Communication System and *Bluetooth* Profile of this sound bar

There are many available *Bluetooth* Profiles describing the basic communication methods, specific functions and uses, to enable communication between devices.

This sound bar supports the following:

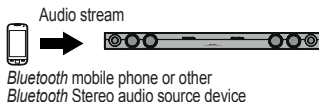
Communication System: *Bluetooth* Specification version 2.1 *Bluetooth* + *Enhanced Data Rate* (EDR) Profile : A2DP (*Advanced Audio Distribution Profile*)

A2DP enables audio streaming from an A2DP equipped *Bluetooth* stereo audio source device (eg mobile phone) to this sound bar. By converting wireless stereo audio signal to analogue audio signal, you can enjoy listening to the sound through this speaker system.

AVRCP (*Audio/Video Remote Control Profile*) is a technology that allows a single remote control to control all *Bluetooth* enabled Audio Video equipment to which a user has access.

Notes when using unit with a mobile phone

- This unit cannot be used to talk over the telephone even when there is a *Bluetooth* connection made to a mobile phone.
- Please refer to the operating manual supplied with the mobile phone for details on operation of your mobile phone while transmitting the sound using a *Bluetooth* connection.



■ Pairing *Bluetooth* devices

Bluetooth devices need to be initially paired first before they can exchange data. Once paired, it is not necessary to pair them again unless:

- pairing is made with more than 8 devices. Pairing can only be made one device at a time. This sound bar can be paired to a maximum of 8 devices. If subsequent device is paired, the oldest device paired, will be deleted and replaced with the new one.
- this sound bar is reset. All pairing information is deleted when sound bar is reset.
- pairing information is deleted while repairing, etc.

On indicators

Status	PAIRING indicator (blue)
Unconnected	Blinks
Pairing mode	Blinks quickly
Connected	Lights up

Listening to *Bluetooth* enabled devices (for HT-SB30) (continued)



■ Pairing with other *Bluetooth* source device

1 Press the ON/STAND-BY button to turn the power on.

2 Press the INPUT button to select *Bluetooth* function. (PAIRING indicator blinks.)

3 Press and hold the PAIRING button for 3 seconds or more.

PAIRING indicator blinks quickly. The sound bar is now in pairing mode and is ready to be paired with other *Bluetooth* source device.

4 Perform pairing procedure on the source device to detect this sound bar. "SHARP HT-SB30" will appear in the detected devices list (if available) in the source device. (Refer the source device operating manual for details).

Notes:

- Place the devices to be paired within 1 meter (3 feet) of each other when pairing.
- Some source devices are unable to display lists of detected devices. To pair this sound bar with the source device, refer to the source device operating manual for details.

5 Select "SHARP HT-SB30" from the source list. If Passcode* is required, enter "0000".
* Passcode may be called PIN Code, Passkey, PIN number or Password.

6 Pairing indicator (blue) will stop blinking once the sound bar is successfully paired with the source device. (Pairing information is now memorized in the sound bar.)

Some audio source devices may connect with the sound bar automatically after pairing is completed, otherwise follow the instructions in the source device operating manual to start connection.

7 Press the play button on remote control or source device to start *Bluetooth* connection.

Notes:

- If this sound bar or the source device is turned off before *Bluetooth* connection is completed, pairing will not be completed and the pairing information will not be memorized. Repeat step 1 onwards to start pairing again.

- To pair with other devices, repeat steps 1 - 5 for each device.

This sound bar can be paired to a maximum of 8 devices. If subsequent device is paired, the oldest device paired, will be deleted and replaced with the new one.

- Once a device is ousted or deleted from the pairing list, the pairing information for the device is also deleted. To listen to the sound from the device again, it needs to be re-paired. Perform steps 1 - 5 to pair the device again.

Listening to *Bluetooth* enabled devices (for HT-SB30) (continued)

■ Listening to the sound

Check that:

- The source device *Bluetooth* functionality is ON.
- Pairing of this sound bar and the source device is completed.
- Sound bar is in connected mode (pairing indicator (BLUE) lights up.)
- Any device connected to the AUDIO IN socket is turned off.

1	Press the ON/STAND-BY button to turn the power on.
2	Press the INPUT button to select <i>Bluetooth</i> function.
3	Start the <i>Bluetooth</i> connection from the <i>Bluetooth</i> stereo audio source device.
4	Press play button. Notes: If the source device has an extra bass function or equalizer function, set them to off. If these functions are on, sound may be distorted.

Notes:

- You need to make the *Bluetooth* connection again if:
 - the source device is not turned on, or its *Bluetooth* functionality is off or is in sleep mode.
- During *Bluetooth* function, if both the *Bluetooth* connected device and the one connected to the AUDIO IN are played simultaneously, only the *Bluetooth* sound can be heard.

■ To finish listening

Perform any of the followings.

- Disconnect the *Bluetooth* connection on the audio source device.
Refer the operating manual supplied with the device.
- Turn off the *Bluetooth* stereo audio source device.
- Turn off this sound bar.

Note:

The volume of this sound bar may not be controlled as intended depending on the device.

Bluetooth operation buttons (remote control only)



Press the button to play or pause.



Press the button to skip up.



Press the button to skip down.

Troubleshooting chart

Many potential problems can be resolved by the owner without calling a service technician. If something is wrong with this product, check the following before calling your authorized SHARP dealer or service center.

■ General

Symptom	Possible cause
No sound is heard.	<ul style="list-style-type: none"> ● Is the input signal (selection) set properly? ● Is the volume level set to minimum? ● Is muting activated? ● Are the connections made correctly? ● Is the sound bar too far from the <i>Bluetooth</i> stereo audio source device? (HT-SB30) ● Is the sound bar paired with the <i>Bluetooth</i> stereo audio source device? (HT-SB30)
Noise is heard during playback.	<ul style="list-style-type: none"> ● Move the sound bar away from any computers or mobile phones.
Sound is distorted.	<ul style="list-style-type: none"> ● TV output sound is distorted. Reduce the TV volume or sound bar volume.
When a button is pressed, the sound bar does not respond.	<ul style="list-style-type: none"> ● Set this sound bar to the stand-by mode and then turn it back on. ● If the sound bar still malfunctions, reset it. (Refer to page 14.)

The power is not turned on.

- Is the sound bar unplugged? (Refer to page 7.)
- The protection circuit may be activated. Unplug and plug in the power cord again after 5 minutes or more.

Bluetooth sound is interrupted or distorted. (HT-SB30)

- Is the sound bar too near to a device that generates electromagnetic radiation?
- Is there any obstacle between the sound bar and the *Bluetooth* stereo audio source device?

■ Remote control

Symptom	Possible cause
The remote control does not operate properly.	<ul style="list-style-type: none"> ● Is the battery polarity correct? ● Is the battery dead? ● Is the distance or angle incorrect? ● Are there any obstructions in front of the sound bar? ● Is there a strong light shining on the remote sensor? ● Is the remote control for another equipment used simultaneously?
The sound bar cannot be turned on with the remote control.	<ul style="list-style-type: none"> ● Is the AC power cord of the sound bar plugged in? ● Is the battery inserted?
TV cannot be operated with the remote control.	<ul style="list-style-type: none"> ● Depending on the model, some or all functions may not be operable using the remote control of this sound bar. In this case, use the remote control supplied with the TV.

Troubleshooting chart

■ Condensation

Sudden temperature changes, storage or operation in an extremely humid environment may cause condensation inside the cabinet or on the transmitter or the remote control.

Condensation can cause the sound bar to malfunction. If this happens, leave the power on until normal operation is possible (about 1 hour). Wipe off any condensation on the transmitter with a soft cloth before operating the sound bar.

■ Factory reset, clearing all setting

Make sure to disconnect all audio input cables attached to the sound bar before performing the factory reset.

1. During Stand-by mode.

2. **HT-SB20**

Press and hold **SURROUND** button and the **ON/STAND-BY** button.

HT-SB30

Press and hold **PAIRING** button and the **ON/STAND-BY** button.

3. Press the **ON/STAND-BY** button. (**ON/STAND-BY** indicator will turn **VIOLET**.)

Caution:

This operation will erase all data stored in memory.

■ If problem occurs during operation


When this product is subject to strong external interference (mechanical shock, excessive static electricity, abnormal supply voltage due to lightning, etc.) or if it is operated incorrectly, it may malfunction.

If such a problem occurs, do the following:

- 1 Set the sound bar to the stand-by mode and turn the power on again.
- 2 If the sound bar is not restored in the previous operation, unplug and plug in the sound bar, and then turn the power on.

Error indicators and warnings

When you fail to perform operations properly, the following messages are displayed on the sound bar.

Display	Meaning
 Power indicator (blinks red)	● When the protection circuit is activated.

(*): Should the same message appear even if the sound bar is unplugged and plugged in or is set to the stand-by mode and on again, contact your local dealer where you purchased the sound bar.

Maintenance

■ Cleaning the cabinet

Periodically wipe the cabinet with a soft cloth.

Caution:

- Do not use chemicals for cleaning (petrol, paint thinner, etc.). It may damage the cabinet finish.

Do not apply oil to the inside of each component. It may cause malfunctions.



Specifications

As part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production unit. There may be some deviations from these values in individual unit.

■ General

Power source	DC IN 17V $\overline{\text{---}}$ 2.8A: AC/DC adaptor (AC 100 - 240V ~ 50/60Hz)
Power consumption	10W
Maximum output power	RMS: Total 40 Watts 20 Watts per channel into 6 ohms at 1 kHz, 10% total harmonic distortion FTC: Minimum 14 watts per channel into 6 ohms at 100 Hz to 20 kHz, 1% total harmonic distortion
Speaker	2-way Speaker System 2-1/4" (5.7cm) Woofer 1" (2.5cm) Soft Dome
Input terminals	Analog input (AUDIO IN): Stereo mini jack \varnothing 3.5mm 500mV / 47kohms
Frequency Band (HT-SB30)	2.400GHz - 2.480GHz
Compatible Bluetooth Profile (HT-SB30)	A2DP (Advanced Audio Distribution Profile), AVRCP (Audio/Video Remote Control Profile) <i>Bluetooth 2.1 +EDR</i>
Dimensions	Width: 37" (940mm) Height: 2-7/8" (73mm) Depth: 3-1/4" (83mm)
Weight	5.07lbs. (2.3kg)