

SAMSUNG

FULL MANUAL

MX-ST90B

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SAFETY INFORMATION

SAFETY WARNINGS

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER (OR BACK). NO USER-SERVICEABLE PARTS ARE INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

Refer to the table below for an explanation of symbols which may be on your Samsung product.

	CAUTION RISK OF ELECTRIC SHOCK. DO NOT OPEN.	
	This symbol indicates that high voltage is present inside. It is dangerous to make any kind of contact with any internal part of this product.	
	This symbol indicates that this product comes with important literature concerning operation and maintenance.	
	Class II product : This symbol indicates that a safety connection to electrical earth (ground) is not required. If this symbol is not present on a product with a power cord, the product MUST have a reliable connection to protective earth (ground).	
	AC voltage : Rated voltage marked with this symbol is AC voltage.	
	DC voltage : Rated voltage marked with this symbol is DC voltage.	
	Caution. Consult Instructions for use : This symbol instructs the user to consult the user manual for further safety related information.	

WARNING

- To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.
- This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

CAUTION

- Do not expose this apparatus to dripping or splashing. Do not put objects filled with liquids, such as vases, on the apparatus.
- To turn this apparatus off completely, you must pull the power plug out of the wall socket. Consequently, the power plug must be easily and readily accessible at all times.

FCC NOTE (for U.S.A):

FCC Supplier's Declaration of Conformity

Responsible Party - U.S. Contact Information:

Samsung Electronics America, Inc.
85 Challenger Road.
Ridgefield Park, NJ 07660
Phone: 1-800-SAMSUNG (726-7864)

FCC Compliance Statement :

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution :

- Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
- This product satisfies FCC regulations when shielded cables and connectors are used to connect the unit to other equipment. To prevent electromagnetic interference with electric appliances, such as radios and televisions, use shielded cables and connectors for connections.

Class B FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorienting or relocating the receiving antenna.
- Increasing the separation between the equipment and receiver.
- Connecting the equipment to an outlet that is on a different circuit than the radio or TV.
- Consulting the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement :

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated so there is at least 8 inches (20 cm) between the radiator and your body. This device and its antenna(s) must not be co-located or operated in conjunction with any other antenna or transmitter.

CALIFORNIA USA ONLY (Applicable for networking models only.)

This Perchlorate warning applies only to primary CR(Manganese Dioxide) Lithium coin cells in the product sold or distributed ONLY in California USA "Perchlorate Material - special handling may apply, See www.dtsc.ca.gov/hazardouswaste/perchlorate."

Dispose unwanted electronics through an approved recycler. To find the nearest recycling location, go to our website:www.samsung.com/recycling Or call, 1-800-SAMSUNG

 **WARNING: Cancer and Reproductive Harm**
- www.P65Warnings.ca.gov.

Important Safety Instructions

Read these operating instructions carefully before using the unit. Follow all the safety instructions listed below. Keep these operating instructions handy for future reference.

1. Read these instructions.
2. Keep these Instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings.
Install in accordance with the manufacturer's instructions.

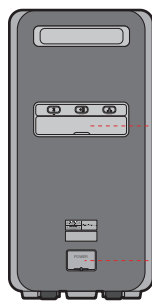
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug.
A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus.
When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



To avoid deterioration of water resistant

Check the following and use the unit correctly.

- Deformation or damage from dropping the unit or subjecting it to mechanical shock may cause deterioration of the water resistant.
- This unit does not have a design that is resistant to water pressure. Use of the unit in a location where high water pressure is applied, such as in the shower, may cause a malfunction.
- Do not pour high-temperature water or blow hot air from a hair dryer or any other appliance on the unit directly. Also never use the unit in a place subject to high temperatures, such as in a sauna or near a heat source.
- Handle the cap with care. Port cover and AC plug cover plays a very important role in maintenance of the water resistant. When using the unit, make sure that the cap is closed completely. When closing the cap, be careful not to allow foreign objects inside. If the cap is not closed completely the water resistant may deteriorate and may cause a malfunction of the unit as a result of water entering the unit.
- The product cannot be dumped to ensure it is water resistant.
- IPX5 cannot be met when any JACK is plugged in.
- In a state of electricity, IPX5 can be met when the power cord passes through the cover power slot and the cover power is completely closed, otherwise, it does not.



PRECAUTIONS

1. Ensure that the AC power supply in your house complies with the power requirements listed on the identification sticker located on the rear of your product. Install your product horizontally, on a suitable base (furniture), with enough space around it for ventilation (3~4 inches). Make sure the ventilation slots are not covered. Do not place the unit on amplifiers or other equipment which may become hot. This unit is designed for continuous use. To fully turn off the unit, disconnect the AC plug from the wall outlet. Unplug the unit if you intend to leave it unused for a long period of time.
2. During thunderstorms, disconnect the AC plug from the wall outlet. Voltage peaks due to lightning could damage the unit.
3. Do not expose the unit to direct sunlight or other heat sources. This could lead to overheating and cause the unit to malfunction.
4. Protect the product from moisture (i.e. vases), and excess heat (e.g. a fireplace) or equipment creating strong magnetic or electric fields. Unplug the power cable from the AC wall socket if the unit malfunctions. Your product is not intended for industrial use. It is for personal use only. Condensation may occur if your product has been stored in cold temperatures. If transporting the unit during the winter, wait approximately 2 hours until the unit has reached room temperature before using.

ABOUT THIS MANUAL

The user manual has two parts: this simple paper USER MANUAL and a detailed FULL MANUAL you can download.



USER MANUAL

See this manual for safety instructions, product installation, components, connections, and product specifications.



FULL MANUAL

You can access the FULL MANUAL on Samsung's on-line customer support center by scanning the QR code on the left. To see the manual on your PC or mobile device, download the manual in document format from Samsung's website.
(<https://www.samsung.com/us/support/downloads/>)

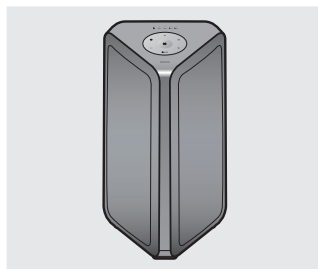
Design and specifications are subject to change without prior notice.

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01 CHECKING THE COMPONENTS



Sound Tower Main Unit



**Remote Control (AH81-15581A) /
Batteries (AAA batteries x2)**



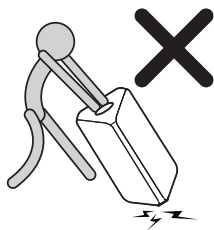
**Power Cord
(AH81-15587A)**

- For more information about the power supply and power consumption, refer to the label attached to the product. (Label: Rear of the Sound Tower Main Unit)
- To purchase additional components or optional cables, contact a Samsung Service Center or Samsung Customer Care.

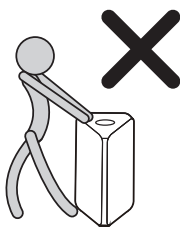
Carry the system

When moving the product, in order to avoid personal injury and/ or property damage, and achieve water resistant, please see the illustrations below.

1. When moving the product, do not drag or pull the product from the ground without the wheels sticking out.

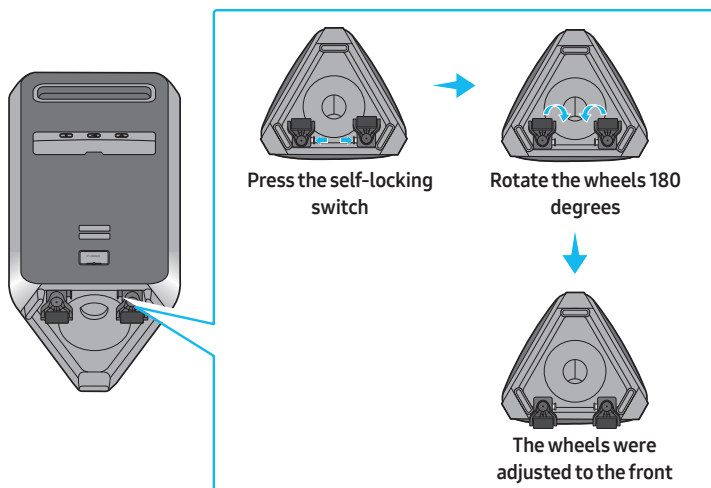


2. Do not lift the set to prevent the set from injuring your feet.

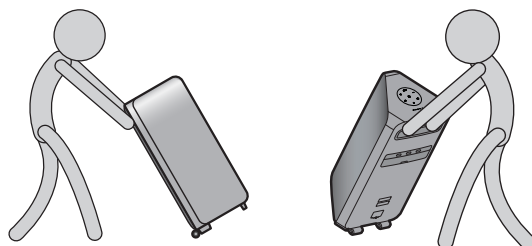


3. To move the set, perform the following steps.

- Press the self-locking switch of the wheels respectively to rotate the two wheels out of the bottom of the set. When "DA" is heard, it means that the wheels are adjusted in place.



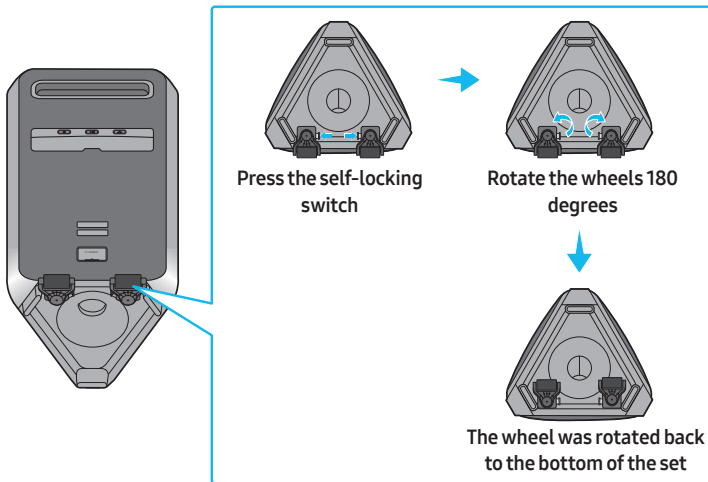
- Two hands grasp the handle of the set and move the set through the wheels as shown below



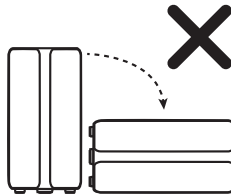
Warning:

when the set passes the blind road or does not lie flat on the road, please move slowly to prevent the set from rolling over!

- After the set is moved, press the self-locking switch of the two wheels respectively to rotate the wheels to the bottom of the set. When “DA” is heard, it means that the wheels are adjusted in place.

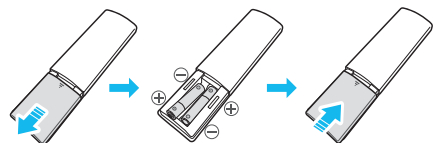


4. The product cannot be dumped to ensure it is water resistant.



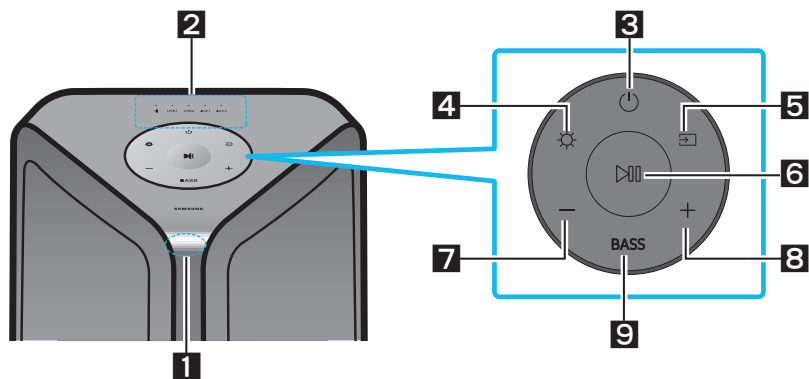
Inserting Batteries before using the Remote Control (AAA batteries X 2)

Slide the battery cover in the direction of the arrow until it is completely removed. Insert 2 AAA batteries (1.5V) oriented so that their polarity is correct. Slide the battery cover back into position. (the remote control does not support IPX5)



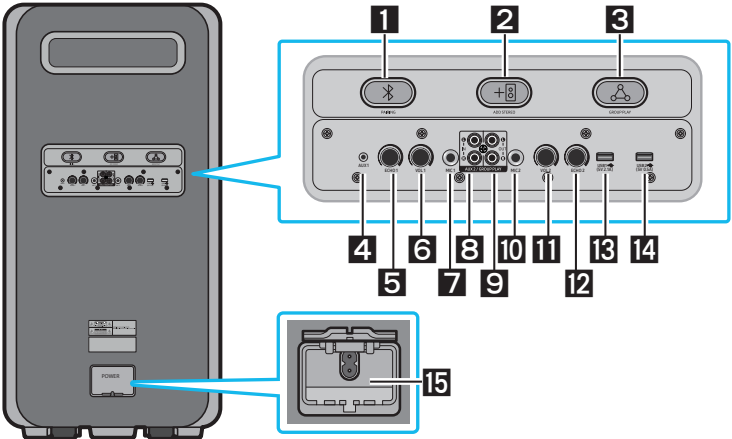
02 PRODUCT OVERVIEW

Top Panel of the Sound Tower



1	Remote Sensor	When operating the Sound Tower system, please aim the front of the remote control at the remote sensor.
2	LED indicator	Displays operating messages or current status of the Sound Tower system. The information sources represented by each LED are as follows: ❦ (BT) USB1 (USB1) USB2 (USB2) AUX1 (AUX1) AUX2 (AUX2)
3	Power	Turns the Sound Tower on and off.
4	Light	Press the ❦ (Light) button to turn the Lighting Mode on.
5	Source	Press to select a source connected to the Sound Tower. Press and hold the ➡ (Source) button for more than 5 seconds to enter the "SEARCHING TV" mode.
6	Play/Pause	• Play/Pause Press the ▶❏ button to pause a music file temporarily. When you press the button again, the music file plays. • Demo play Press and hold the ▶❏ button for more than 5 seconds to start the Demo play while the system is turned on. 5 LEDs flashing simultaneously and it plays demo music for 90 seconds. – Please be careful as it may play louder than the set volume.
7	Volume down	Press the — (Volume down) button to lower the volume.
8	Volume up	Press the + (Volume up) button to raise the volume.
9	BASS	Press the BASS button to use the powerful bass sound.

Rear Panel of the Sound Tower



1	Bluetooth PAIRING	Press the PAIRING button to enter pairing mode, "PAIRING" LED on the rear plane will be fast blink.
2	ADD STEREO	Press the ADD STEREO button to connect to another same model Sound Tower wirelessly.
3	GROUP PLAY	Press the GROUP PLAY button to connect up to ten Sound Tower systems wirelessly.
4	AUX1	Use an Audio (AUX) Cable (not supplied) to connect AUX1 jack on the main unit to Audio Out on an external device.
5	ECH01	You can give an echo effect to the sound from a connected microphone (MIC1) by adjusting the ECH01 knob.
6	VOL1	Use the VOL1 knob on the main unit to adjust the volume of a connected microphone (MIC1).
7	MIC1	Connect your microphone to the MIC1 jack.
8	GROUP PLAY IN Terminals	Use an Audio Cable (not supplied) to connect AUX2 (IN) terminals on the main unit to Audio Out on an external analog output device.
9	GROUP PLAY OUT Terminals	Use an Audio Cable (not supplied) to connect GROUP PLAY (OUT) terminals on the main unit to GROUP PLAY(IN) on another Sound Tower.
10	MIC2	Connect your microphone to the MIC2 jack.
11	VOL2	Use the VOL2 knob to adjust the volume of a connected microphone (MIC2).
12	ECH02	You can give an echo effect to the sound from a connected microphone (MIC2) by adjusting the ECH02 knob.

13	USB1	Connect a USB device to the USB1 or USB2 ports on the main unit.
14	USB2	If you connect your cell phone to the USB1 port, you can charge it. Press the  (Source) button to select USB1 or USB2.
15	Power	Connect the power cord to the Power jack and connect the other end of the power cord to a wall socket to supply electrical power to the Sound Tower.

03 CONNECTING THE SOUND TOWER

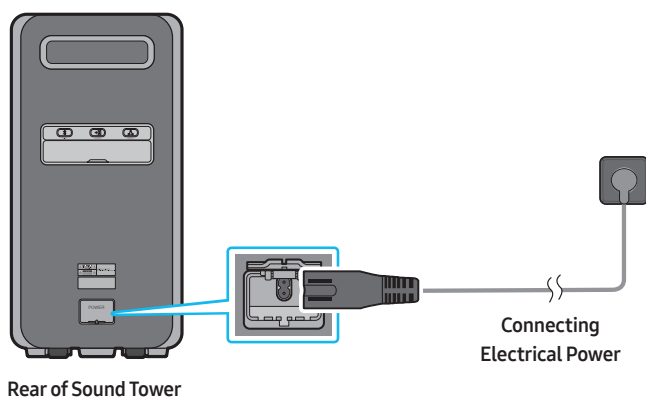
Connecting Electrical Power

Use the power cord to connect the Sound Tower to an electrical outlet in the following order:

Connect the power cord to the Sound Tower and then to a wall socket.

See the illustrations below.

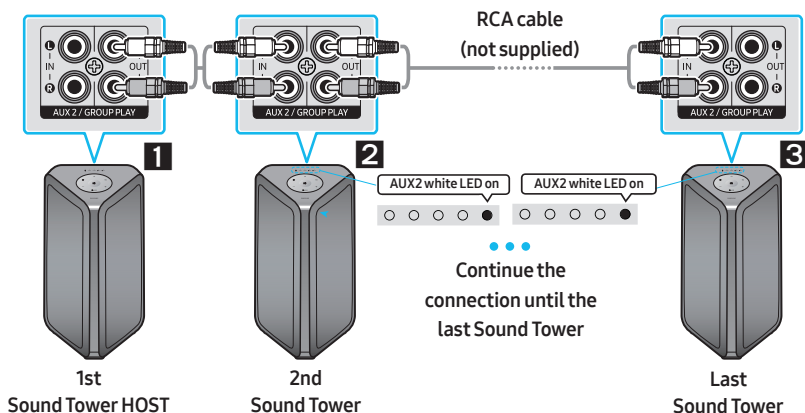
- For more information about the required electrical power and power consumption, refer to the label attached to the product. (Label: Rear of the Sound Tower)
- How to use the water resistant function? → Water resistant can be met when any Jack or AC power cord is plug-in, but make sure that the caps are closed completely. Product cannot be dumped to ensure it is water resistant.



Connecting the Group Play Mode

You can connect multiple audio systems in a wired group play mode to create a more interesting party environment and to produce higher sound output.

Connecting the wired Group Play mode



- 1** Connect the analog audio cable to the OUT(Group Play) of the HOST.
※ Sound Tower HOST can play music from any source.
- 2** Connect the analog audio cable to the IN(AUX2) of 2nd Sound Tower and Set the source to AUX2.
- 3** Set up Group Play by connecting all the systems using analog audio cables.
Use the AUX or  **(Source)** button to change the source to AUX2 for every Sound Tower except the Sound Tower HOST.
 - Set one Sound Tower as the HOST and any music played on it will be shared among any other Sound Tower in the Audio group.

NOTES

- Analog audio cables are not supplied.
- Depending on the length or characteristics of the cable, there may be a difference in operating distance.
- You do not need to connect the last system to the first system. In this case, only the first system can become a group play mode Host.
- Connect the system that is not equipped with the wired group play function as the last system. Be sure to select the Audio In function on the last system.
- In this configuration, the sound from the last system may lag behind others.
- To deactivate the wired group play mode
 - Remove analog audio cable from the HOST
 - Change to a source other than AUX2
 - Turn off the HOST
- Wired Group Play function cannot be activated.

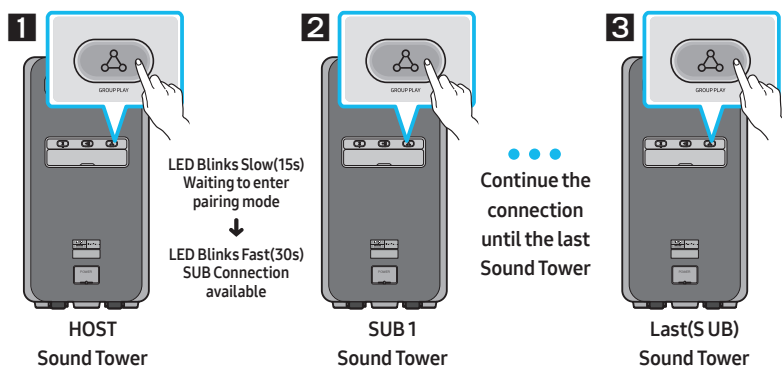
- Check the connections.
- Check the audio cables are connected correctly.
- Check the Sound Tower HOST operation status.
- Wired Group Play function does not work properly.
 - Turn off the system. Then, turn it back on again to activate the function.
- When the microphone operating on the HOST, the MIC sound is output to all the SUB Sound Tower.

Connecting the wireless Group Play mode

You can connect multiple audio systems in a wireless group play mode to create a more interesting party environment and to produce higher sound output.

Precondition

- When connecting a Sound Tower, make sure it is within 3.28 ft (1 m) distance.
- Cannot set the mode to Group Play mode when sound tower is connected to TV.
- If the sound tower is in Stereo mode, need to exit it before using Group Play mode.



- 1** Press the **GROUP PLAY** button on the HOST Sound Tower, wait until the “**GROUP PLAY**” LED from slow blinks(15s) turns to fast blinks(30s), and the Sound Tower has become Sound Tower HOST. (SUB connect to HOST within 30sec which LED fast blinks.)
 - ※ Only BT source can be used, select other source will cause Group Play mode disconnecting.
 - ※ Press and hold “**GROUP PLAY**” button for 5sec in BT Source, the Sound Tower turns to fast blinks immediately.
- 2** Press the **GROUP PLAY** button on the SUB Sound Tower, searching the HOST while “**GROUP PLAY**” LED blinks, and the LED will turns to solid and output beep sound after connected to the Sound Tower HOST.
- 3** If less than 20 minutes have passed since Group Play button was pressed, refer to Step 2 to connect additional SUB. If 20 minutes have passed since Group Play button was pressed, refer to Step 1&2 to connect additional SUB.
 - Play music on the HOST Sound Tower. Sound outputs from all the connected systems.

NOTES

- All the Sound Tower models can connect Group Play mode.
- When “**HOST**” Sound Tower connect to the Samsung TV, the Group play mode will automatically disconnected.
- Environmental conditions or other factors with connected devices may have effect on playback quality.
- When lighting LED blinks pink and output beep sound, an error in the **Group Play** mode connection. Try Step 1 to 2 again.
- The **ADD STEREO** button and  **PAIRING** button on the SUB Sound Tower systems are not available while in wireless Group Play mode.
- The **ADD STEREO** button on the HOST Sound Tower is not available while in wireless Group Play mode.
- Bluetooth devices can search and connect with the HOST Sound Tower only, but the SUB cannot connect to any Bluetooth device.
- If you power off or select any source other than BT on a SUB unit, the Group Play mode is disconnected.
- This product does not support aptX audio stream with Wireless Group Play mode.
- In this configuration, the sound from the last system may lag behind others.
- Wireless Group Play function does not work properly.
 - Turn off the system. Then, turn it back on again to activate the function.
- Electronic devices may cause radio interference. Devices that generate electromagnetic waves must be kept away from the Sound Tower main unit - e.g., microwaves, wireless LAN devices, etc.
- When using the wireless Group Play mode function, sound from the microphone is only output from the system to which the microphone is connected.

Disconnecting the wireless Group Play mode

1. Press and hold the **GROUP PLAY** button over 5 seconds (HOST or SUB).
 - Output beep sound and the LED above the **GROUP PLAY** button is off.
2. If you select any source other than **BT** on the SUB units or turn off the HOST Sound Tower, the Group Play mode is disconnected.

LED Indications

LED	STATE	Description
Green	Blink	Waiting for a wireless Group Play connection.
	Solid	The wireless Group Play connection was successful.
Red	Solid	There is an error with the wireless Group Play connection.

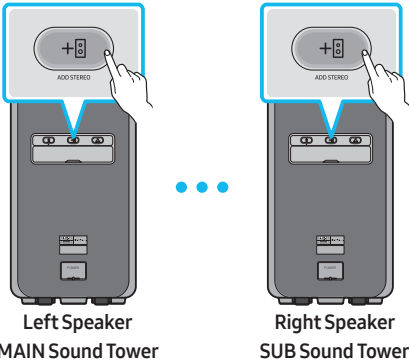
Connecting the Stereo Mode

Connect two Sound Tower and use them with mobile device to enjoy stereo mode, to make a larger listening area or to hear greater left and right audio separation.

Precondition

- To use the Stereo mode, both Sound Tower systems must be the same model.
- When connecting a Sound Tower, make sure it is within 3.28 ft (1 m) distance.
- If the sound tower is in Group Play mode, need to exit it before using Stereo mode.
- Cannot set the mode to Stereo mode when sound tower is connected to TV.

Description	LED Indicator	Light Bar
Connecting		Cyan blink 
		
Connected		Cyan blink once 
		
Failed		Pink blink once 
		



The initial connection

- MAIN(Left) and SUB(Right) can not select when initial connection. If press the **ADD STEREO** button on the MAIN or SUB Sound Tower, it switch the Left and Right Speaker.
1. Press the **ADD STEREO** buttons of the two Sound Towers. The LED blinks on the **ADD STEREO** button.
 2. When the connection is complete, output beep sound and **ADD STEREO** LED turns solid. MAIN Sound Tower is Bluetooth PAIRING LED blinks.
 - The MAIN Sound Tower outputs left channel sound and the SUB Sound Tower outputs right channel sound.
 - Play music by connecting your mobile device to the MAIN Sound Tower via Bluetooth. Sound is output from both Sound Tower.

NOTES

- Environmental conditions or other factors with connected devices may have effect on playback quality.
- If the red LED is on the ADD STEREO, an error has occurred in the Stereo Group connection. Try step 1 and step 2 again.
- Remote Controller, BT PAIRING, GROUP PLAY and Source buttons on the SUB Sound Tower are disabled while in Stereo Group mode.
- The GROUP PLAY button on the MAIN Sound Tower is not available while in Stereo Group mode.
- In mode other than "BT" (ex. USB, AUX mode), music is played only in MAIN Sound Tower and music is not played in SUB Sound Tower.
- The lighting colors between MAIN Sound Tower and SUB Sound Tower may vary.
- This product does not support aptX audio stream with Stereo mode.
- When using the wireless Stereo mode function, sound from the microphone is only output from the system to which the microphone is connected.
- Electronic devices may cause radio interference. Devices that generate electromagnetic waves must be kept away from the Sound Tower main unit - e.g., microwaves, wireless LAN devices, etc.

Disconnecting the wireless Stereo mode

Press the **ADD STEREO** button (MAIN or SUB) for at least 5 seconds while the Stereo Group is connected.

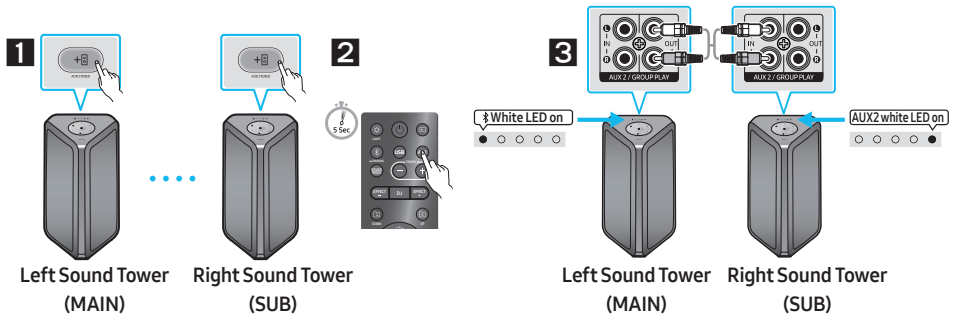
- Output beep sound and the LED above the **ADD STEREO** button is off.

Using Stereo Mode of Samsung TV

Connect two Sound Tower and use them with Samsung TV to enjoy stereo mode, to cover a larger listening area or to hear greater left and right audio separation.

Precondition

- To use the Stereo mode, both Sound Tower systems must be the same model.
- When connecting a Sound Tower or TV, make sure it is within 3.28 ft (1 m) distance.
- Cannot set the mode to Stereo mode when sound tower is connected to TV.
- If the sound tower is in Group Play mode, need to exit it before using Stereo mode.



- 1** Connect two sound towers via stereo mode by press the **ADD STEREO** button on the two Sound Tower.
- 2** In "**BT**" mode, press the "**AUX**" button on the MAIN Sound Tower remote control for at least 5 seconds. The LED blinks on the **ADD STEREO** button.
- 3** Connect the RCA cable to the **OUT(Group Play)** on the MAIN and **AUX2 IN** on the SUB as shown by using the RCA cable.
 - When the connection is complete, the "**ADD STEREO**" LED turn on and then output beep sound, the SUB top panel "**AUX2**" LED turn on.
 - The MAIN Sound Tower outputs the left channel sound and the SUB Sound Tower outputs the right channel sound. Press the **ADD STEREO** button on the MAIN or SUB Sound Tower to change the sound channel of the Sound Tower.
 - Connect a TV and MAIN Sound Tower via Bluetooth to play music. Sound is output from both Sound Tower.

NOTES

- Analog audio cables are not supplied.
- When light bar blinks pink and output beep sound, an error in the Stereo mode connection. Try Step 1 to 3 again.
- In Stereo Group mode, the remote control, BT PAIRING, GROUP PLAY, and Source buttons on the SUB Sound Tower are disabled.
- The GROUP PLAY button on the MAIN Sound Tower is not available in Stereo Group mode.
- If Samsung TV supports a simple connection, the connection pop-up is automatically displayed on the TV, and if you select "Yes", it connects to the TV. If there is a previous connection history between Samsung TV and Sound Tower, it will be connected to Samsung TV without pop-up. For a simple connection to Samsung TV.
- The lighting colors may vary between the MAIN Sound Tower and the SUB Sound Tower.
- When the microphone operating on the MAIN, the MIC sound is output to the SUB.

Disconnecting Stereo mode connection

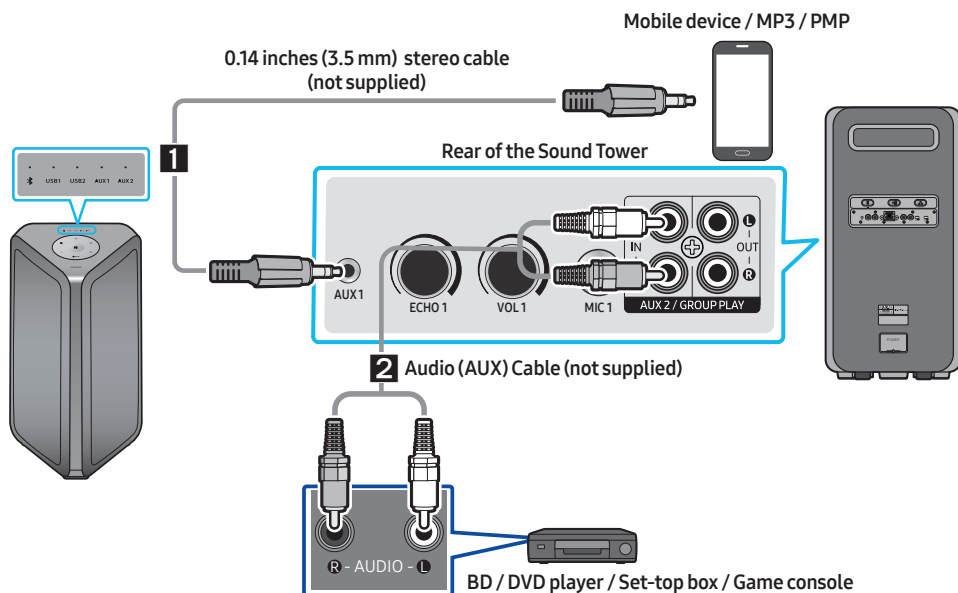
- Press the **ADD STEREO** button (MAIN or SUB) for at least 5 seconds after the Stereo Group is connected. Sound tower will be output beep sound and the LED on the **ADD STEREO** button turns off.

04 CONNECTING AN EXTERNAL DEVICE

Connect to an external device via a wired or wireless network to play the external device's sound through the Sound Tower.

Connecting an External Device via Analog Audio Cable

A phone jack or RCA cable is a physical connection that transfers analog audio signals.



1 0.14 inches (3.5 mm) stereo Cable (AUX1)

1. Connect **AUX1** jack on the main unit to the AUDIO OUT jack of the Source Device using an 0.14 inches (3.5 mm) stereo cable.
2. Select "**AUX1**" mode by pressing the  (**Source**) button on the top panel or on the remote control.
 - You can also select a source using **AUX** button on the remote control.

2 RCA Cable (AUX2)

1. Connect **AUX2 (IN)** terminals on the main unit to the AUDIO OUT terminals of the Source Device using an RCA cable.
2. Select "**AUX2**" mode by pressing the  (**Source**) button on the top panel or on the remote control.
 - You can also select a source using **AUX** button on the remote control.

NOTES

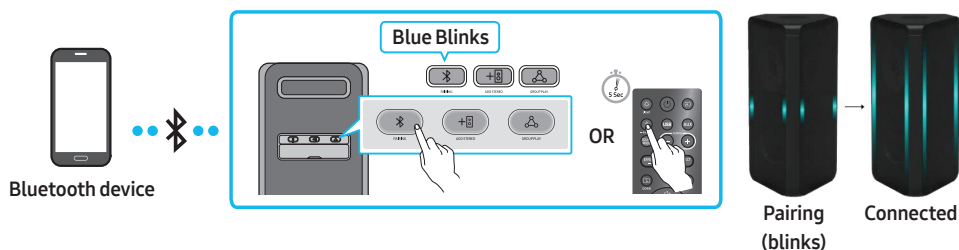
- Analog audio cables are not supplied.
- Depending on the length or characteristics of the cable, there may be a difference in operating distance.
- AUX1 and AUX2 does not support wireless Stereo and Group Play mode.

Connecting a mobile device via Bluetooth

When a mobile device is connected using Bluetooth, you can hear stereo sound without the hassle of cabling.

Precondition

- When connecting to a new BT device, make sure it is within 3.28 ft (1 m) distance.
- Disconnect from Samsung TV before connect to mobile device.
- SUB speaker can't connect to BT when in the Group Play or Stereo mode.



1. Press the **PAIRING** button on the rear panel of sound tower.
(OR) Press and hold the **PAIRING** button on the remote control for more than 5 seconds to enter the "BT PAIRING" mode.
2. On your device, select "[AV] MX-ST9B Series" from the list that appears.
 - After the device is connected. The light bar will be all show cyan, and the Bluetooth light on the rear panel is steady on.
3. Play music files from the device connected via Bluetooth through the Sound Tower.

NOTES

If the device fails to connect

- Sound tower will output beep sound via BT disconnected.
- If a previously connected Sound Tower listing (e.g. "[AV] MX-ST9B Series") appears in the list, delete it.
- Then repeat steps 1 and 2.

Bluetooth connection

- In Bluetooth connection mode, the Bluetooth connection will be lost if the distance between the Sound Tower and the Bluetooth device exceeds 32.8 ft (10 meters).

- The Sound Tower automatically turns off after 20 minutes in the Ready state.
- The Sound Tower may not perform Bluetooth search or connection correctly under the following circumstances:
 - If there is a strong electrical field around the Sound Tower.
 - If several Bluetooth devices are simultaneously paired with the Sound Tower.
 - If the Bluetooth device is turned off, not in place, or malfunctions.
- Electronic devices may cause radio interference. Devices that generate electromagnetic waves must be kept away from the Sound Tower main unit - e.g., microwaves, wireless LAN devices, etc.

What is the difference between BT READY and BT PAIRING?

- **BT READY** : In this mode, you can use the previously connected TV or mobile device to connect to Sound Tower.
- **BT PAIRING** : In this mode, you can connect a new device to the Sound Tower.
 (Press and hold the  **PAIRING** button on the remote control for more than 5 seconds or press the  **PAIRING** button on the rear of the Sound Tower to enter the “**BT PAIRING**” mode.)

Using Bluetooth Multi connection

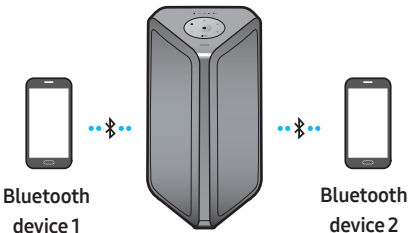
The Sound Tower can be connected to 2 Bluetooth devices at the same time.

Precondition

- When connecting to a new BT device, make sure it is within 3.28 ft (1 m) distance.
- Disconnect from Samsung TV before connect to mobile device.
- SUB speaker can't connect to BT when in the Group Play or Stereo mode.

Bluetooth Multi Connection Indicator

Description	LED Indicator	Light Bar
Connecting	Blue fast blink   	Cyan blink 
Connected	Blue solid   	Cyan blink once 
Failed	Blue blink   	Pink blink once 



1. Make your Sound Tower "BT PAIRING" mode and connect each mobile device.
2. On your device, select "[AV]MX-ST9B Series" from the list that appears.
3. When the Sound Tower is connected to two mobile devices, The light bar will be all show cyan, and the Bluetooth light on the rear panel is steady on.

How to operate Bluetooth Multi Connection Function

Play music from one of the connected Bluetooth devices while two devices are connected. If music is played from the Bluetooth device "B" while playing from the device "A", the music is started playing on the device "B" and automatically being stopped/paused playback on the device "A".

NOTES

- When connecting to Samsung TV, the BT multi connection will automatically disconnect
- If you want to connect Sound Tower to a third device, you can disconnect Sound Tower from one of the two currently connected devices and then connect Sound Tower to the third device.
- With the Sound Tower and two devices currently connected, when pairing to a new Bluetooth device, the devices currently connected maybe disconnected.
- Environmental conditions or other factors with connected devices may have effect on playback quality.
- Electronic devices may cause radio interference. Devices that generate electromagnetic waves must be kept away from the Sound Tower main unit - e.g., microwaves, wireless LAN devices, etc.
- Bluetooth Multi connection may not be supported depending on the connected device's specifications.
- Removable/detachable Bluetooth devices (Ex: Dongle etc..), windows phone, laptops, TV, etc. do not support Bluetooth Multi connection.
- After Bluetooth Multi connection pairing, there may be a slight delay before music starts playing depending on the Bluetooth devices.
- If you move too far out of range from the Sound Tower without first disconnecting your Bluetooth device, it may take a few minutes to connect other Bluetooth devices. If you turn the Sound Tower off and back on, you can connect other Bluetooth devices without waiting.

Disconnecting the Sound tower from the Bluetooth device

Press the Source button on the top panel or on the remote control, and then change to any mode except "BT".

- Disconnecting takes time because the Bluetooth device must receive a response from the Sound tower.
- When the Soundtower is disconnected from the Bluetooth device, The sound tower will output the beep sound.

Using Bluetooth Power On

When the Sound Tower is turned off, you can connect your smart device via a Bluetooth connection to turn it on.

1. Press and hold the **BASS** button on the remote control or on the top panel to set the Bluetooth Power On function on. Lighting bar will be blink white once.
2. When the Sound Tower is off, connect your smart device via Bluetooth. (For information on Bluetooth connections, refer to your smart device's manual.)
3. When the connection is complete, the Sound Tower turns itself on automatically in Bluetooth mode.
 - Select the desired music to play from your smart device.

NOTE

- Each time you press and hold the **BASS** button for 5 seconds. LED lighting bar will be blink white once and status switched:

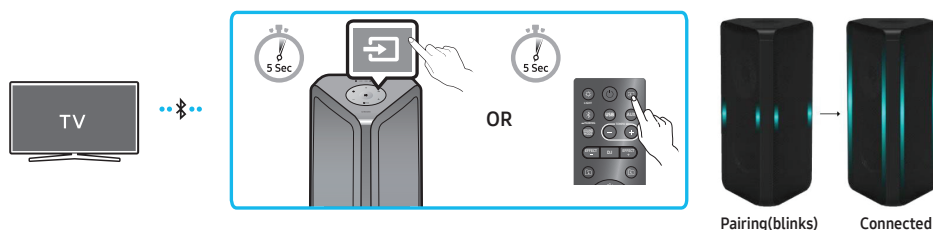
BLUETOOTH POWER-ON→BLUETOOTH POWER-OFF

Connecting a Samsung TV via Bluetooth

When a TV is connected using Bluetooth, you can hear stereo sound without the hassle of cabling. (Only one TV can be connected at a time)

Precondition

- When connecting to a new BT device, make sure it is within 3.28 ft (1 m) distance.
- While in wireless Group Play or Stereo mode, searching TV is not available.
- If the Samsung TV doesn't support "**Easy Connection**" function, "**SEARCHING TV**" mode can not connect to TV, make your Sound Tower "**BT PAIRING**" mode and connect Samsung TV.



1. Press and hold  (**Source**) bottom for more than 5 seconds on remote control or top panel then Sound Tower will start to search Samsung TV. Lighting bar will blink white once and then blink cyan, The back plane "**PAIRING**" LED will be slow blink.
(Or, when the wired Stereo Groupmode connection is complete, the "**SEARCHING TV**" mode is automatically activated.)
2. If Samsung TV has connected with Sound Tower before, Samsung TV will be connected without popup.

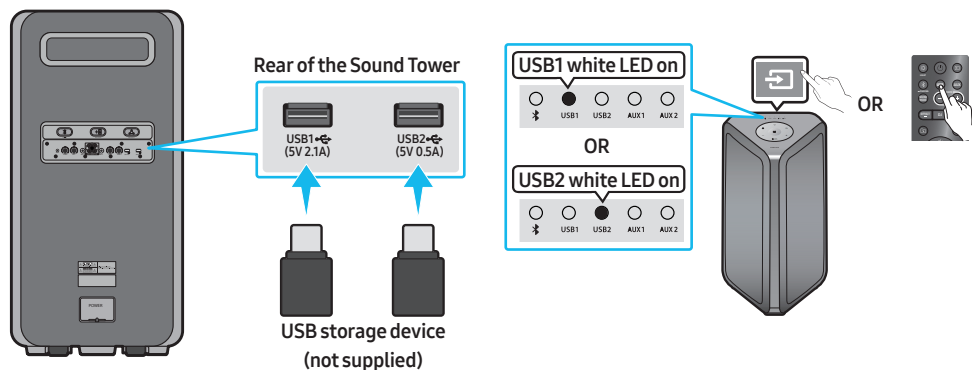
3. Play music files from the device connected via Bluetooth through the Sound Tower.
 - If Sound Tower can not find any Samsung TV within 5 minutes, Sound Tower will terminate “**SEARCHING TV**” mode and turn to “**BT PARING**” mode. If find any Samsung TV, Sound Tower will request connect to those TV.

NOTES

- To stop searching Samsung TV, turn off the Sound Tower or press the  (Source) or  PAIRING button.
- Sound Tower does not support multi connection if Samsung TV is connected.
- While Samsung TV is connected, Sound mode is **PARTY** and **SOUND MODE** button is not available.
- While Samsung TV is connected, Sound Tower APP can not connect with Sound Tower.
- Connection popup may not be displayed according to TV spec, you can try press the PAIRING button on the rear panel of sound tower, On your Samsung TV, select “**[AV] MX-ST9B Series**” from the list that appears.
- You can select and connect directly from the Bluetooth speaker list on your TV when the connection pop-up does not appear on your TV.
- When the Sound Tower is connected to your TV by Bluetooth connection, the video on the TV and audio from the Sound Tower may not be synchronized because the distance between the Sound Tower and the TV is too far.

05 CONNECTING A USB STORAGE DEVICE

You can play music files located on USB storage devices through the Sound Tower.



1. Connect a USB storage device to the USB jacks on your Sound Tower.
2. Press the  (**Source**) button on the top panel or USB button of remote control, and then select "USB".
3. The **USB** indicator on the top panel is steady on. And then read the files on the USB, Lighting LED will be blink blue. After reading the music file, the sound tower will automatically play the music.
 - ※ The lighting LED will blinks white once when press the button(TEMPO+/-, Repeat, FOLDER UP/DOWN, Play/Pause, Skip) on remote control.
 - ※ Using with the Sound Tower App can get better experience.

CAUTION

- DO NOT connect microphone dongle to the USB port, it may damage the Sound Tower.

NOTES

- This product only supports USB storage device that are formatted in the FAT and FAT32 file system.
- This product does not support HDD storage or storage on mobile devices.
- A maximum of 999 files can be played per USB storage device.
- A maximum of 256 folders can be read per USB storage device.
- The Sound Tower automatically turns off (Auto Power Down) if USB device is not connected, playback stopped, or there is no input for more than 18 minutes
- USB source does not support wireless Stereo and Group Play mode.

Supported Audio Formats

File Extension	Audio Codec	Sampling Rate	Bit Rate
*.mp3	MPEG 1 Layer3	32 kHz ~ 48 kHz	32 kbps ~ 320 kbps
	MPEG 2 Layer3	16 kHz ~ 24 kHz	8 kbps ~ 160 kbps
	MPEG 2.5 Layer3	8 kHz ~ 12 kHz	8 kbps ~ 160 kbps
*.wma	WMA7/8/9	8 kHz ~ 48 kHz	32 kbps ~ 320 kbps
*.aac	AAC	8 kHz ~ 96 kHz	< 1728 kbps
	AAC-LC	8 kHz ~ 96 kHz	< 1728 kbps
	HE-AAC	8 kHz ~ 96 kHz	< 1728 kbps
*.wav	PCM/LPCM/ IMA_ADPCM	8 kHz ~ 192 kHz	< 5 Mbps
*flac	-	8 kHz ~ 192 kHz	< 5 Mbps

NOTES

- This product does not support WMA Professional codec.
- The above table shows supported sampling rates and bit rates. Files in formats that are not supported will not play.
- AAC files only support the ADTS native format.

Software Update

Samsung may offer updates for the Sound Tower's system firmware in the future.

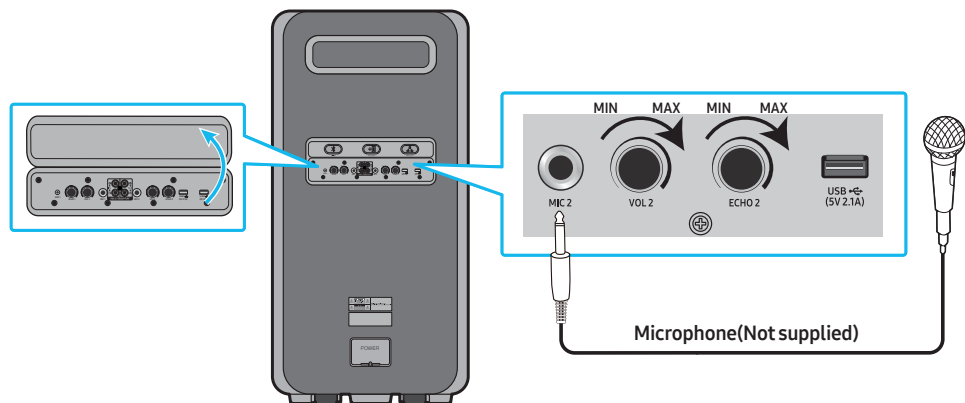
If an update is offered, you can update the firmware by connecting a USB device with the firmware update stored on it to the **USB1** or **USB2** port on your Sound Tower. For more information about how to download update files, go to the Samsung Electronics website at www.samsung.com/us/support/. Then, enter or select the model number of your Sound Tower, select the Software & Apps option, and then Downloads. Note that the option names can vary.

NOTE

- If the upgrade takes more than 10 minutes, it means the upgrade process is stuck, Please unplug the power cord Wait until the sound tower is powered off and plug it back in again, Make sure the USB device is in the USB2 port, wait 1 minute, sound tower will automatically restart, and then upgrade until the upgrade is complete.

Connecting an Optional Microphone

You can output your voice from the system by connecting a dynamic microphone with a normal plug.



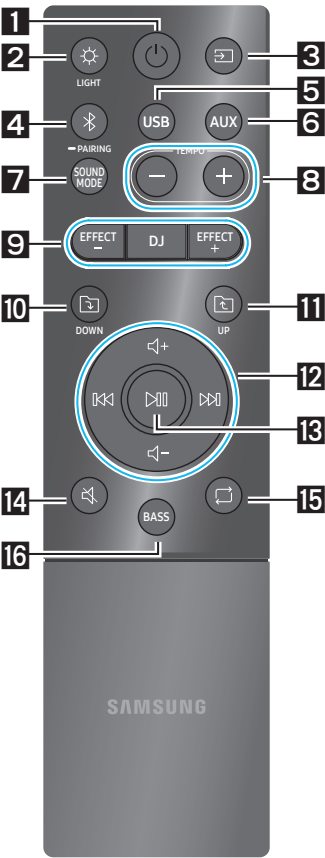
1. Open the rear panel cover.
2. Turn the MIC1/2, VOL1/2 & ECHO1/2 knob to MIN to reduce the microphone level.
3. Connect an optional microphone to the MIC jack on the unit.
4. Adjust the volume using the MIC "VOL1/2" knob.
5. Adjust the Effect of the echo using the MIC "ECHO1/2" knob.
6. Speak or sing into the connected microphone.

NOTES

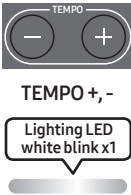
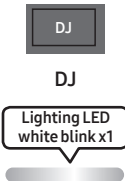
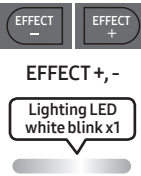
- Microphone is not supplied.
- When using the wireless Group Play or stereo mode function, sound from the microphone is only output from the system to which the microphone is connected.
- It may happen sound noise or distortion according to the characteristics of the microphone.

06 USING THE REMOTE CONTROL

How to Use the Remote Control



1	 Power	Turn the Sound Tower on and off.
2	 LIGHT Lighting LED white blink x1	Press the  (LIGHT) button to turn the Lighting Mode on. (Only during music playback is effective) Press the button repeatedly to cycle through the available light modes: AMBIENT, PARTY, DANCE, THUNDERBOLT, STAR or OFF .
3	 Source Lighting LED white blink x1	Press to select a source connected to the Sound Tower. Press the button repeatedly to cycle through the available sources: BT, USB1, USB2, AUX1 or AUX2 . White LED moves to right on  LED indicator on the top of the product
4	 Bluetooth PAIRING Lighting LED Cyan blinks	Press to select a source connected directly to "BT" mode. Press and hold the button for more than 5 seconds to enter the "BT PAIRING" mode. You can connect the Sound Tower to a new Bluetooth device in this mode by selecting the Sound Tower from the Bluetooth device's search list.  white LED on  LED indicator on the top of the product
5	 USB Lighting LED white blink x1	Press to select the USB1 or USB2 source connected to the Sound Tower. USB1 white LED on OR USB2 white LED on  OR  LED indicator on the top of the product

6	 AUX	Press to select the AUX1 or AUX2 sources connected to the Sound Tower.  LED indicator on the top of the product
7	 SOUND MODE	Press the button repeatedly to cycle through the available sound effects: PARTY, STANDARD, HIPHOP, EDM, ROCK, LATIN, HOUSE or REGGAE. • PARTY: Term for more upbeat music effect ,like a party • Standard: Term for raw musical effects, like no EQ. • HIPHOP: term for Dynamic dance and music. • EDM: A more “generalized concept” genre than electronic music. • ROCK: Band music. • LATIN: Term for the music of many South American countries. • HOUSE: Fast beat dance music played on electronic instruments. • REGGAE: Unique Jamaican Music.
8	 TEMPO +, -	Press the TEMPO + or TEMPO - buttons to change the tempo of the music up or down. • This function only works in the USB1 and USB2 mode.
9	 DJ	This function lets you turn on the DJ effect function. Press the button repeatedly to cycle through the available DJ sound effects: NOISE, FILTER, CRUSH, CHORUS, WAHWAH or OFF. • NOISE: Mixing white noise into the original sound. • FILTER: Filter out the sound of some frequencies. • CRUSH: Make the original sound sharp. • CHORUS: Separate the original sound into several track and delay them separately,then mix again. Create a chorus effect. • WAHWAH: WAHWAH effect created by enhancing some specific frequencies of original sound.
10	 EFFECT +, -	Press the EFFECT + or EFFECT - buttons to change the level of the each DJ sound effect up or down. Effect value default is 5, can be changed to – 15 ~ 0 ~ +15
10	 Folder DOWN	Press the  (DOWN) button to move to the next folder in the USB device.

11	 Folder UP Lighting LED white blink x1 	Press the  (UP) button to move to the previous folder in the USB device.
12	 Volume up, Volume down / Skip Lighting LED White blink x1   + From down to up →  - From top to bottom ←	• Volume up, Volume down Press the + (Volume up) or - (Volume down) to adjust the volume level up or down. • Music Skip Press the  button to select the next music file. If the playing time is less than 3s, press the  button to select the previous music, otherwise play the current music again. Press and hold the  button or the  button for more than 3 seconds in USB play mode to Fast Forward or Fast reverse. Press and hold the  button or the  button for more than 3 seconds again to get back to normal play.
13	 Play / Pause Lighting LED white blink x1 	Press the  button to pause a music file temporarily. When you press the button again, the music file plays. • Auto Power Down Function To turn off Auto Power Down function while the unit is in AUX1, AUX2 mode, press and hold the  button for more than 5 seconds. Lighting bar will be blink white once.
14	 Mute Lighting LED white blink x1 	Press the  (Mute) button to mute the sound. Press it again to unmute the sound.
15	 Repeat Lighting LED white blink x1 	Press the  (Repeat) button to use the Repeat function in "USB1" and "USB2" mode. Press the button repeatedly to cycle through the available repeat functions: ONE, FOLDER, ALL, RANDOM or OFF.

16	 BASS Lighting LED white blink x1 	Press the BASS button to use the powerful bass sound. Press it again to return to the normal sound. Press and hold the BASS button for more than 5 seconds to turn on or off the BLUETOOTH POWER function.
	Not available Lighting LED Pink blink x1  From middle to end 	The remote control button function is not available in the current source.

How to use Sound Mode

Your Sound Tower provides predefined equalizer settings that are optimized for particular music genres.

1. Press the **SOUND MODE** button on the Remote control.
2. Each time you press the **SOUND MODE** button, the Sound Tower cycles through the available sound effects: **PARTY, STANDARD, HIPHOP, EDM, ROCK, LATIN, HOUSE** or **REGGAE**.

NOTES

- Default sound mode is **PARTY**.
- When turned off, press and hold the  button on product or remote control for more than 5 seconds to turn on in the default Sound Mode setting.

How to use the DJ Effect

The DJ Effect function lets you add DJ sound effects to your music. The level of each effect is adjustable.

1. Press the **DJ** button on the Remote control.
2. Each time you press the **DJ** button, the Sound Tower cycles through the available DJ Effects:
 - **NOISE**: Create white noise and mixed with the original sound through the filter and output.
 - **FILTER** : Creates an effect similar to the sound of only treble or bass.
 - **CRUSH**: Creates an effect that makes the original sound sharper.
 - **CHORUS** : Creates an effect similar to a singing chorus.
 - **WAHWAH** : Creates a 'Wah~ Wah~' effect.
 - **DJ EFFECT OFF** : Turns off the DJ Effect.
3. Press the **EFFECT +** or **EFFECT -** buttons to raise or lower the level of each of the DJ sound effects from -15 to +15.

NOTE

- When turned off, press and hold the  button on product or remote control for more than 5 seconds to turn on in the default DJ Effect setting.

07 USING THE SAMSUNG SOUND TOWER APP

Install Samsung Sound Tower App

To control this product with your Smart Device and the Samsung Sound Tower app, download the Samsung Sound Tower App from the Google Play Store or Apple App Store, and install it on your Smart Device.

Using the Samsung Sound Tower App

You can control the system more flexibly and enjoy it in new ways using the App.

Precondition

- This function may not be supported, depending on the mobile device.
- App cannot use when connecting with Samsung TV.
- This function is compatible with Apple mobile devices running iOS 11.0 or later.
- This function is compatible with Android mobile phone devices running Android OS 8.0.
- App cannot use when using Bluetooth multi connection.

Market search : Samsung Sound Tower



1. Download the Samsung Sound Tower App from the Google Play Store or Apple App Store, and install it on your Smart Device.
2. Turn on the Sound Tower app on your mobile device.
3. A connection is established between the mobile device and Sound tower via Bluetooth.
4. Play audio from the mobile device through the Sound tower

What you can do with Samsung Sound Tower App:

- Balance the sound using preset EQs or custom EQs.
- Change the sound effect using DJ EFFECT.
- Configure the various settings for the system.
- Change the light effect by preset or custom.
- Adjust the Volume.
- Switch source

NOTES

- To use this function, update the Sound tower app to the latest version. The function may not be supported, depending on the app version.
- The Sound tower app may not work if there are devices near the Sound tower that cause radio interference such as electric devices. Make sure devices that may cause radio interference are placed at a sufficient distance away from the Sound tower.
- If the sound tower app doesn't work:
 - Reboot the mobile device.
 - Update the Sound Tower app to the latest version.
 - Reinstall the Sound Tower app after uninstalling.
 - Update the phone system version.

08 TROUBLE SHOOTING

Refer to the table below if this product 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 product, disconnect the power cord, and contact Samsung Electronics at 1-800-SAMSUNG (1-800-726-7864).

Sound Tower does not turn on.

→ Power cannot be turned on via remote control or mobile Party Audio App, Remove the power plug, after a while plug-in it again, Press the POWER button to turn on the Sound Tower.

Sound Tower works erratically.

→ Remove the power plug, after a while plug-in it again, Press the POWER button to turn on the Sound Tower.

→ Power cycle the external device and try again.

→ If there is no signal, the Sound Tower automatically turns off after a certain period of time. Press the POWER button to turn on the Sound Tower.

If the remote control does not work.

→ Point the remote directly at the Sound Tower.

→ Replace the batteries with new ones.

Sound Tower does not output any sound via Bluetooth.

→ The volume of the Sound Tower is too low or muted.
Press the volume up button to increase the volume.

→ When any external device (STB, Bluetooth device, mobile device, etc.) is connected, Increase the volume of the external device.

→ For sound output of the TV, select Sound Tower. (Samsung TV: Home Menu → Settings → All Settings → Sound → Sound Output → Select Sound Tower).

→ Remove the power plug, after a while plug-in it again, Press the POWER button to turn on the Sound Tower.

→ When connecting a new device, switch to “BT PAIRING” for connection. (Press and hold the PAIRING button on the remote control for more than 5 seconds to enter the “BT PAIRING” mode, or single-click the PAIRING button on the rear panel.)

Sound Tower does not connect via Bluetooth.

→ If the Sound Tower is connected to another device, disconnect that device first to switch the device.

→ Enable the Bluetooth pairing function of the Bluetooth device and Sound Tower.

→ It is recommended to move the Sound Tower closer to your Bluetooth device within 3.3 ft (1 meter).

→ Remove the power plug, after a while plug-in it again, Press the POWER button to turn on the Sound Tower.

Sound drops out when connected via Bluetooth.

→ Some devices can cause radio if they are located too close to the sound tower. e. g. microwaves, wireless routers, etc.

→ If your device that is connected via Bluetooth moves too far away from the Sound Tower. Move the device closer to the Sound Tower.

-
- If there are obstacles between the Sound Tower and your Bluetooth device, remove or avoid the obstacles.
 - There maybe sound drop when connect to Samsung TV, please refer to page15 "Using Stereo Mode of Samsung TV" steps to reconnect the Samsung TV.
 - The recommended operating distance between Sound Tower and the BT device is less than 32.8 ft (10 meters)

There is severe hum, noise, or distorted sound when connected via Bluetooth.

- If there are obstacles between the Sound tower and your Bluetooth device, remove or avoid the obstacles.
- Some devices can cause radio interference if they are located too close to the sound tower. e. g. microwaves, wireless routers, etc.

The PAIRING button is not working.

- Try again after disconnecting the wireless Group Play or Stereo mode connection.

The USB device is not recognized.

- Switch the source to USB1/USB2 by press the source button, plug-in the USB device to correct port(USB1/USB2).
 - Turn off the sound tower, turn on the sound tower, reconnect the USB device.
 - You may using an unsupported USB device. Suggest format the USB storage device to FAT or FAT32 file system.
-

Files in USB device cannot be played back.

- Switch the source to USB1/USB2 by press the source button, plug-in the USB device to correct port(USB1/USB2).
- You may using an unsupported USB device. Suggest format the USB storage device to FAT or FAT32 file system.
- The file format may not supported. Sound tower only supports MP3,WMA,AAC,WAV and FLAC file format.
- Turn off the sound tower ,turn on the sound tower, reconnect the USB device.
- Files that are encrypted or protected by passwords cannot be played back.

The connected USB device cannot be charged.

- USB port is only for USB storage device playback.

Sound Tower does not output any sound via AUX.

- Make sure the external device is in AUX output mode, and make sure sound tower switch to AUX1 or AUX2 source.
 - Make sure the AUX cable is connected to AUX1 or AUX2 securely.
 - The volume of the Sound Tower is too low or muted. Adjust the volume.
 - When any external device (STB, Bluetooth device, mobile device, etc.) is connected, adjust the volume of the external device.
 - Remove the power plug, after a while plug-in it again, Press the POWER button to turn on the Sound Tower.
-

Stereo mode connection is not working.

- The Add Stereo button can not use in Group Play mode, disconnect the wireless Group Play mode and try Stereo mode connection again.

I want to switch the HOST (MAIN) system to the other in wireless Group Play or Stereo Group connection.

- Disconnect Group Play mode, press the Speaker which you want make to HOST first, and after it use Group LED to judge instead connect the others one by one.
- With Stereo Group mode, MAIN is fixed. You can not change others as MAIN.

I can't connect a SUB to Group play.

- After 1 hour, the HOST will block any additional SUB from being added. Press the GROUP PLAY button on HOST, the SUB can be reconnected.

I cannot make a "Wireless/ Wired Group/ Add Stereo/ Bluetooth" connection.

- It is recommended to make a "Wireless/ Wired Group/ Add Stereo/ Bluetooth" pairing within 3.3 ft (1 meter) from the system.
- Sound Tower can not connect to Samsung TV when using Wireless add Stereo mode.

MIC is not working?

- Adjust the VOL knob of the rear panel.
- MIC only works on the connected sound tower in the group mode, can't works on both sound towers.
- Try disconnect and reconnect the Microphone again.

BT power on not working.

- Remove the power plug, after a while plug-in it again, Press the POWER button to turn on the Sound Tower.

How to use the water resistant function?

- Water resistant can be met when any Jack or AC power cord is plug-in, but make sure that the caps are closed completely. Product cannot be dumped to ensure it is water resistant.

I cannot change wireless Stereo mode to wired Stereo mode.

- Make sure the HOST(main) system is in Bluetooth source.

I cannot change the source.

- The SUB can't change the source in Stereo mode.

If the sound tower app doesn't work.

- Reboot the mobile device.
- Update the Sound Tower app to the latest version.→ Reinstall the Sound Tower app after uninstalling.→ Update the phone system version.
- This function is compatible with Apple mobile devices running iOS 11.0 or later.
- This function is compatible with Android mobile phone devices running Android OS 8.0 or later.

09 LICENSE



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[ENERGY STAR]

ENERGY STAR qualified model only

- Your Samsung product is ENERGY STAR qualified in its factory default setting. Change to certain features, settings and functionality in this product can change the power consumption, possibly beyond the limits required for ENERGY STAR qualification.
- Environmental Protection Agency and Department of Energy. ENERGY STAR is a joint program of the Government agencies, designed to promote energy efficient products and practices.

Refer to www.energystar.gov for more information of the ENERGY STAR Program.

ENERGY STAR qualified model only (Applicable to Thin Client models only)

As an ENERGY STAR® Partner, SAMSUNG has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

- The ENERGY STAR Program has been to reduced greenhouse gas emissions and save energy through voluntary labeling.
- Power management setting of this product have been enabled by default, and have various timing setting from 1 minutes to 5 hours.
- The product can wake with a button press on the chassis from sleep mode.

ENERGY STAR qualified model only (The other models)

- As an ENERGY STAR Partner, Samsung has determined that this product or product models meets the ENERGY STAR guideline for energy efficiency.
-

10 OPEN SOURCE LICENSE NOTICE

To send inquiries and requests regarding open sources, contact Samsung via Email (oss.request@samsung.com).

11 IMPORTANT NOTES ABOUT SERVICE

- Figures and illustrations in this User Manual are provided for reference only and may differ from actual product appearance.
- An administration fee may be charged if either:
 - a. An engineer is called out to your home at your request and there is no defect in the product.
 - b. You bring the unit to a repair center and there is no defect in the product.
- You will be advised of the amount of the administration fee before any work is done or a home visit is made.
- If you have a problem with this product, we strongly recommend you read the appropriate section of this manual, visit the Support page for your product at www.samsung.com, or call Samsung Product Support (1-800-726-7864) to find an answer before you contact a service center for a repair.

12 SPECIFICATIONS AND GUIDE

Specifications

Model Name	MX-ST90B
USB1/USB2	USB1: 5V/2.1A USB2: 5V/0.5A
Weight	54.6lbs(24.8kg)
Dimensions (W x H x D)	16.7X33.8X15.1 inches (424X858X383mm)
Operating Temperature Range	+41°F to +95°F (+5°C to +35°C)
Operating Humidity Range	10 % ~ 75 %
AMPLIFIER Rated Output power	1700 W
Overall Power Consumption	150W

NOTES

- Samsung Electronics Co., Ltd reserves the right to change the specifications without notice.
- Weight and dimensions are approximate.

LIMITED WARRANTY TO ORIGINAL PURCHASER

This SAMSUNG brand product, as supplied and distributed by SAMSUNG and delivered new, in the original carton to the original consumer purchaser, is warranted by SAMSUNG against manufacturing defects in materials and workmanship for a limited warranty period of:

One (1) Year Parts and Labor* **(*90 Days Parts and Labor for Commercial Use)**

This limited warranty begins on the original date of purchase, and is valid only on products purchased and used in the United States. To receive warranty service, the purchaser must contact SAMSUNG for problem determination and service procedures. Warranty service can only be performed by a SAMSUNG authorized service center. The original dated bill of sale must be presented upon request as proof of purchase to SAMSUNG or SAMSUNG's authorized service center. Transportation of the product to and from the service center is the responsibility of the purchaser. SAMSUNG will repair or replace this product, at our option and at no charge as stipulated herein, with new or reconditioned parts or products if found to be defective during the limited warranty period specified above. All replaced parts and products become the property of SAMSUNG and must be returned to SAMSUNG. Replacement parts and products assume the remaining original warranty, or ninety (90) days, whichever is longer. SAMSUNG's obligations with respect to software products distributed by SAMSUNG under the SAMSUNG brand name are set forth in the applicable end user license agreement. Non-SAMSUNG hardware and software products, if provided, are on an "AS IS" basis.

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To obtain warranty service, please contact SAMSUNG customer care center.

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QUESTIONS OR COMMENTS?

Country	Samsung Service Center ☎	Web Site	Address
IN THE US	1-800-SAMSUNG (726-7864)	www.samsung.com/us/support	Samsung Electronics America, Inc. 85 Challenger Road Ridgefield Park, NJ 07660

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