



WAM750/WAM751
WAM550/WAM551
WAM350/WAM351

Wireless Audio - Multiroom M7/M5/M3 User Manual

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Getting Started

Accessories

Confirm you have the supplied accessories shown below.

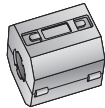
- WAM750, WAM751



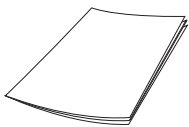
Power cord



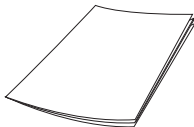
Cover-Stand



Toroidal ferrite core



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Getting started

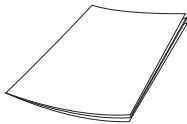
- WAM550, WAM551



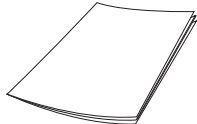
Power Adapter



Stand



User Manual



Getting started

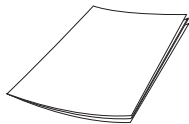
- WAM350, WAM351



Power cord



Stand

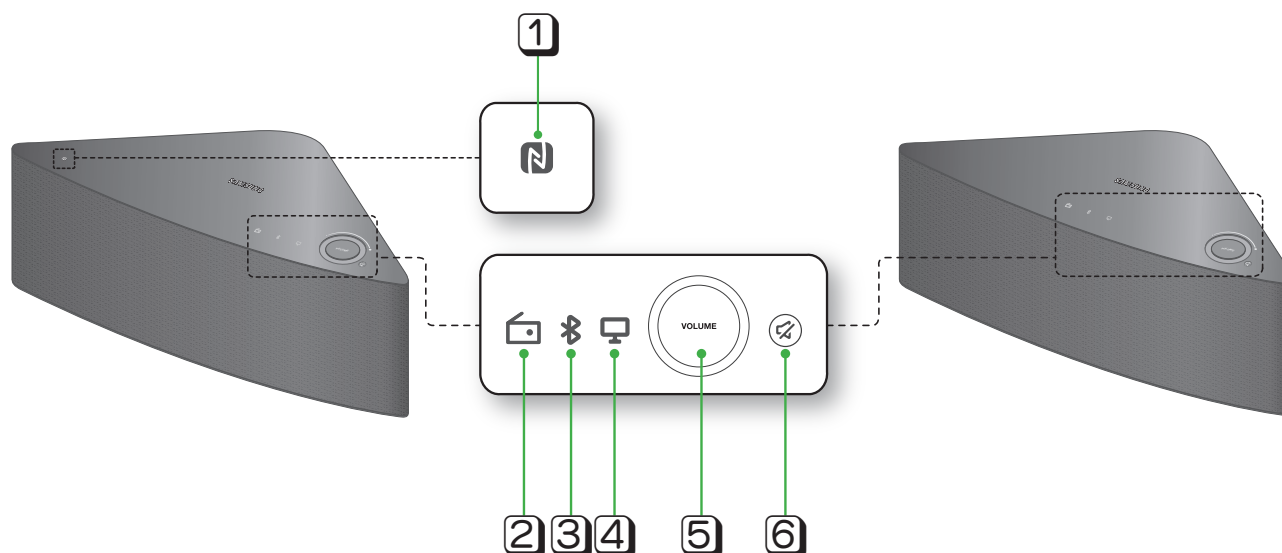



User Manual

Top Panel

• WAM750, WAM751, WAM550, WAM551





• WAM350, WAM351



1	NFC Tag	Connect your NFC compatible device via Bluetooth to the product using the simple NFC tagging procedure. (WAM750, WAM751, WAM550, WAM551 Only) - Android
2	Internet Radio Preset button	Press this button to listen to an Internet radio station. Each time you press this button, the product switches to the next default station, cycling through the 3 default stations.
3	Bluetooth button	Press this button to enable Bluetooth.
4	TV SoundConnect button	Press this button to enable TV SoundConnect.
5	Volume Control button	Controls the volume level.  Touch and drag softly with your finger to make adjustments. This will not work if you press with excessive force.
6	Mute button	Mutes the sound from this product. Press again to restore the sound to the previous volume level.

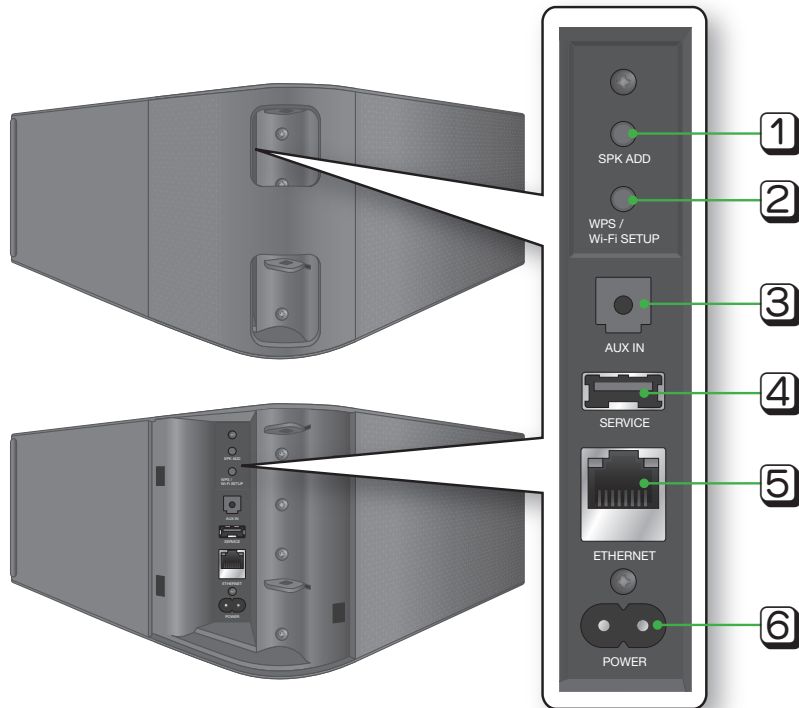


NOTES

- ✓ When you turn on the product, touch buttons appear on its top panel.
- ✓ Press and hold the  **Mute** button for more than 5 seconds to place the product into Standby Mode.
- ✓ Press and hold the  **TV SoundConnect** button for more than 5 seconds to reset the TV SoundConnect and connect a new TV.
- ✓ You can listen to a radio station by pressing the  **Internet Radio Preset** button on the top panel of the product. Each time you press this button, the product switches to the next default station, cycling through the 3 default stations.
- ✓ Enable your smart device's Bluetooth by touching it to the  **NFC Tag** on the top panel of the product. (WAM750, WAM751, WAM550, WAM551 Only) - Android

Rear Panel

- WAM750, WAM751



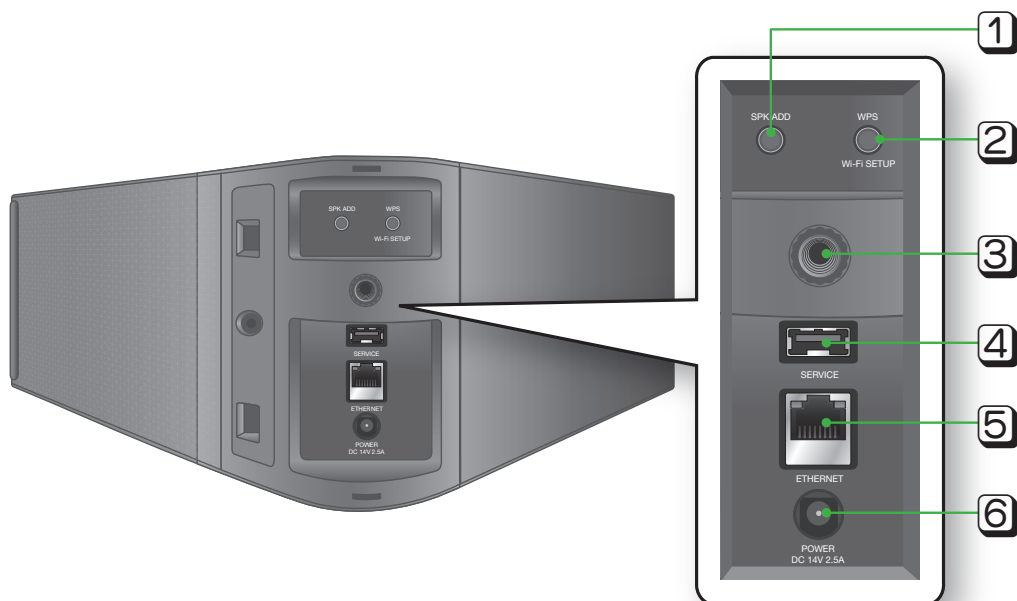
1	SPK ADD button (Speaker Add)	Press this button to add an M7 to your network.
2	WPS/Wi-Fi SETUP button	Press this button to connect your M7 to your network using WPS or Wi-Fi setup.
3	AUX IN	Lets you connect the M7 to the analog output of a smart device.
4	SERVICE	For service only. Lets service technicians update the firmware of the M7.
5	ETHERNET	Lets you connect the M7 to your network using a LAN cable.
6	POWER	Connection for the M7's power cord.



NOTES

- ✓ **SPK ADD** Button: Press for 1 second to pair your M7 with a HUB.
- ✓ **WPS / Wi-Fi SETUP** Button:
 - Press for 1 second to connect the M7 to your wireless router using WPS.
 - Press and hold down for more than 5 seconds to connect the M7 to your network through your smart device using the Wi-Fi Setup method.

- WAM550, WAM551



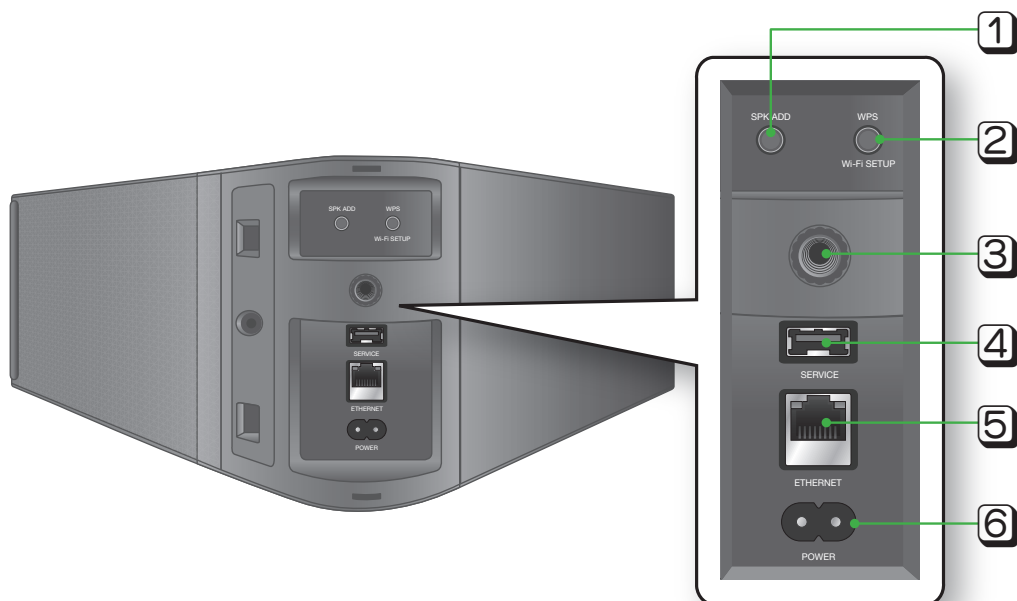
1	SPK ADD button (Speaker Add)	Press this button to add an M5 to your network.
2	WPS/Wi-Fi SETUP button	Press this button to connect your M5 to your network using WPS or Wi-Fi setup.
3	Wall Mount	You can purchase a wall-mount to hang your product on the wall. (For more information, please refer to page 14.) Click here.
4	SERVICE	For service only. Lets service technicians update the firmware of the M5.
5	ETHERNET	Lets you connect the M5 to your network using a LAN cable.
6	POWER	Connection for the M5's power adapter.



NOTES

- ✓ **SPK ADD** Button: Press for 1 second to pair your M5 with a HUB.
- ✓ **WPS / Wi-Fi SETUP** Button:
 - Press for 1 second to connect the M5 to your wireless router using WPS.
 - Press and hold down for more than 5 seconds to connect the M5 to your network through your smart device using the Wi-Fi Setup method.

- WAM350, WAM351



1	SPK ADD button (Speaker Add)	Press this button to add an M3 to your network.
2	WPS/Wi-Fi SETUP button	Press this button to connect your M3 to your network using WPS or Wi-Fi setup.
3	Wall Mount	You can purchase a wall-mount to hang your product on the wall. (For more information, please refer to page 14.) Click here.
4	SERVICE	For service only. Lets service technicians update the firmware of the M3.
5	ETHERNET	Lets you connect the M3 to your network using a LAN cable.
6	POWER	Connection for the M3's power cord.

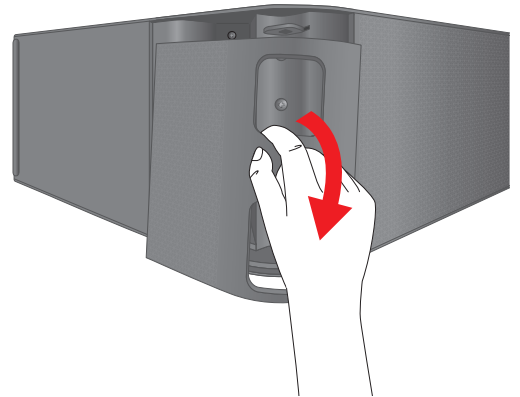


NOTES

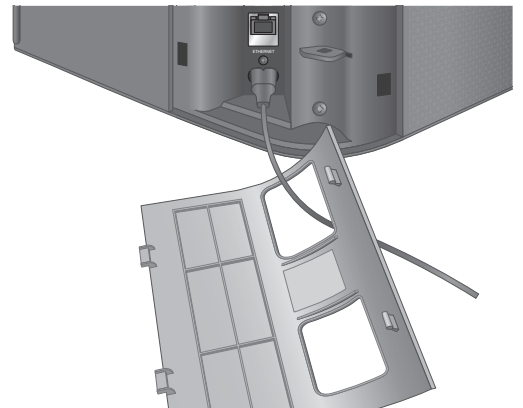
- ✓ **SPK ADD** Button: Press for 1 second to pair your M3 with a HUB.
- ✓ **WPS / Wi-Fi SETUP** Button:
 - Press for 1 second to connect the M3 to your wireless router using WPS.
 - Press and hold down for more than 5 seconds to connect the M3 to your network through your smart device using the Wi-Fi Setup method.

Connecting the Power Cable (WAM750, WAM751 Only)

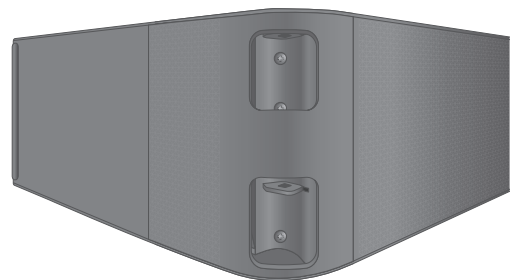
- 1 Remove the rear cover.



- 2 Insert the power cable through the rear cover hole into the M7 power port.



- 3 Close the rear cover.

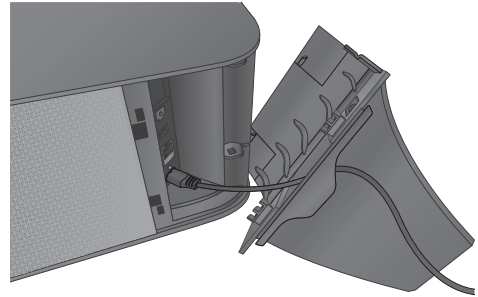


NOTE

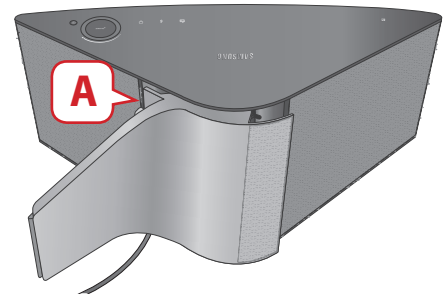
- ✓ When completing network setup, close the rear cover.

Connecting the Cover-Stand (WAM750, WAM751 Only)

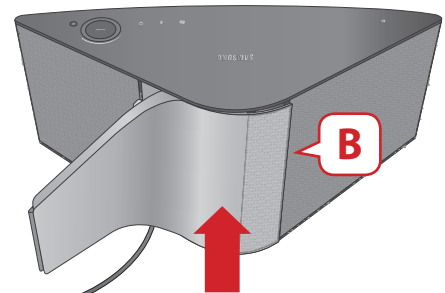
- 1 Before attaching the Cover-Stand, remove the rear cover.
Insert the power cable through the Cover-Stand hole into the M7 power port.



- 2 The inside of the Cover-Stand has two sides. One side (A) has four tabs - two large tabs and two small tabs. The other side (B) has two large tabs only. Insert the two large tabs on side A into the two slots in the area marked A in the diagram.



- 3 Turn the M7 so the side marked B in the diagram is facing you. With the thumbs of both hands, press side B of the Cover-Stand so that the tabs on side B snap into the slots in the area marked B in the diagram. You may need to press side B of the Cover-Stand with some force.



- 4 The M7 can now be installed vertically.



Caution

- ✓ Do not place the M7 on an unstable surface.



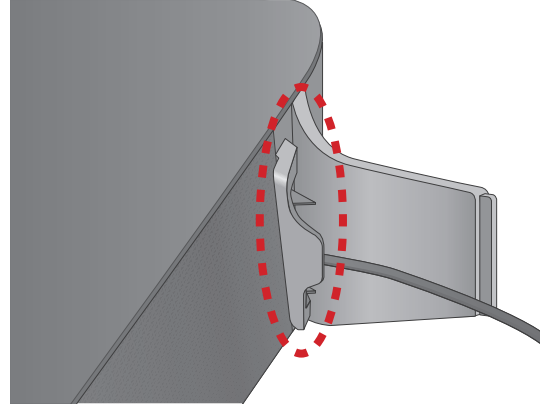
NOTES

- ✓ Turn the speaker upright using the stand to set the speaker to MONO mode.
- ✓ Turning the product upright or laying it down in the middle of playing music may temporarily cause unstable sound.

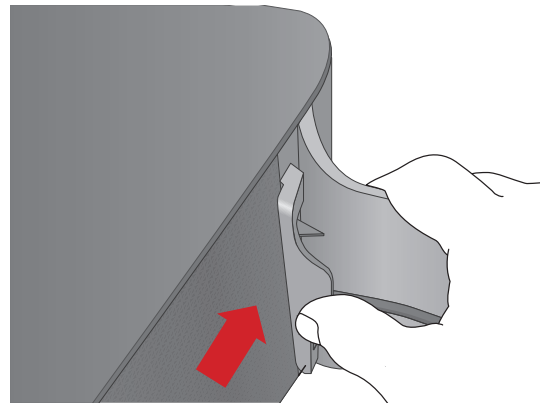


■ Separating the Cover-Stand (WAM750, WAM751 Only)

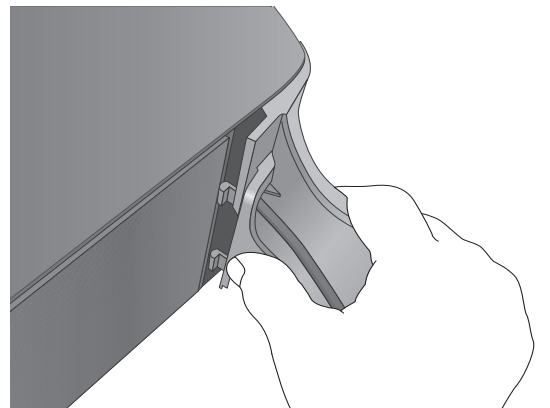
- 1 Locate the Cover-Stand's handle. See the diagram on the right.



- 2 Push the Cover-Stand's handle while applying force to the Cover-Stand in the direction of the arrow.
Important : Push the Cover-Stand straight ahead, parallel to the surface of the M7. You may need to use some force.



- 3 The tabs release and the Cover-Stand separates as shown in the figure.



NOTES

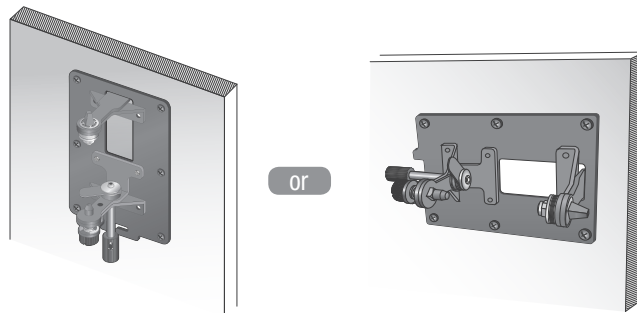
- ✓ Do not lift up the M7 by the stand. It may separate from the stand and cause damage or personal injury.
- ✓ When installing the M7 vertically, please make sure to use the stand.
If you do not, vibrations from the M7's speakers may cause the M7 to tip over or fall, damaging it.

Installing on a Wall (WAM750, WAM751 Only)

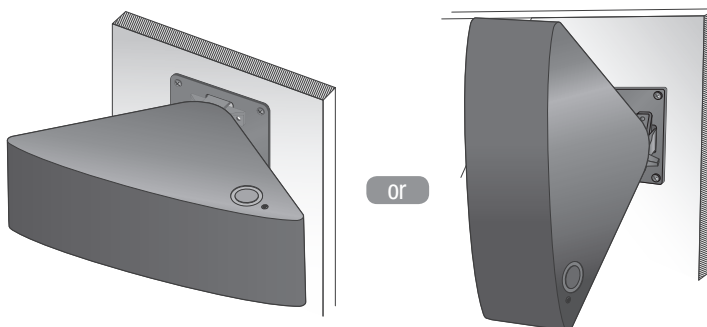


Warning

- ✓ Please have a qualified installer install the Wall Mount Bracket.
 - ✓ Check the strength of the wall before you install the Wall Mount Bracket. If the strength is insufficient, make sure to reinforce the wall before installing the Wall Mount Bracket and the M7 on the wall.
 - ✓ Samsung Electronics is not liable for any damage to the product due to the product being installed inappropriately.
 - ✓ After the installation is complete, do not hang on the M7 and avoid striking it or subjecting it to severe impact. When reinstalling the Wall Mount Bracket and M7 in another location, use the same screws as those supplied with the Wall Mount Bracket. (You can buy the screws from your product provider.)
- 1** Finish pairing the M7, and then make sure the App plays music properly through the M7.
 - 2** Close the back cover of the M7.
 - 3** Install the Wall Mount Bracket (sold separately). You can mount it vertically or horizontally. Follow the directions that come with the Bracket.



- 4** Fit the M7 into the corresponding slots of the Wall Mount Bracket. The installation is complete.

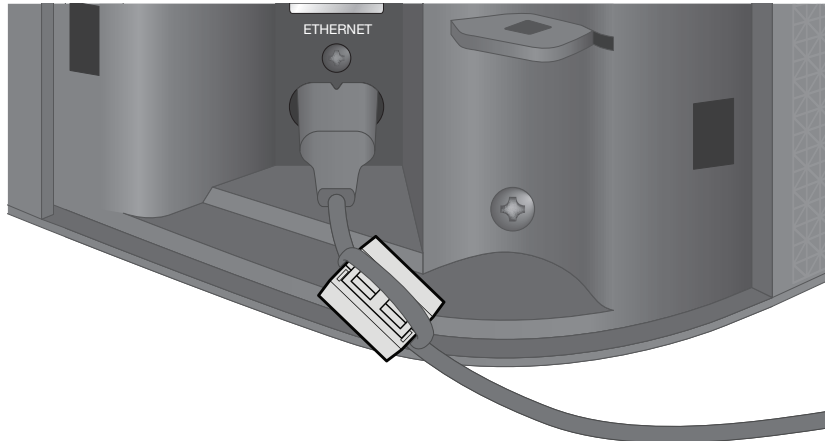


NOTE

- ✓ For more information, please refer to the Wall Mount's Quick Setup Guide.

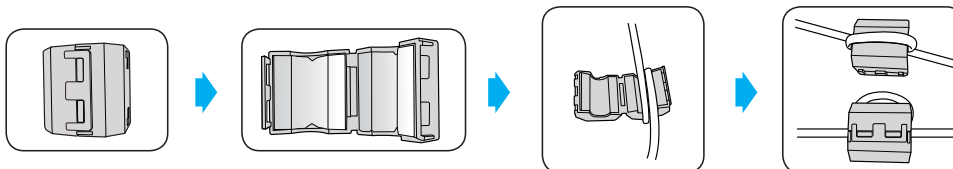
Attaching the toroidal ferrite core to the power cord of the M7 (WAM750, WAM751 Only)

Attaching the Toroidal ferrite core to the power cord of the M7 helps prevent RF interference from radio signals.



- 1** Pull the fixing tab of the Toroidal ferrite core to open it.
- 2** Make a loop around the core with the power cable of the M7.
- 3** Attach the toroidal ferrite core to the M7 power cord as shown in the figure, and then press it until it clicks.

Looping the power cable around the toroidal ferrite core



- Lift up to release the lock and open the core.

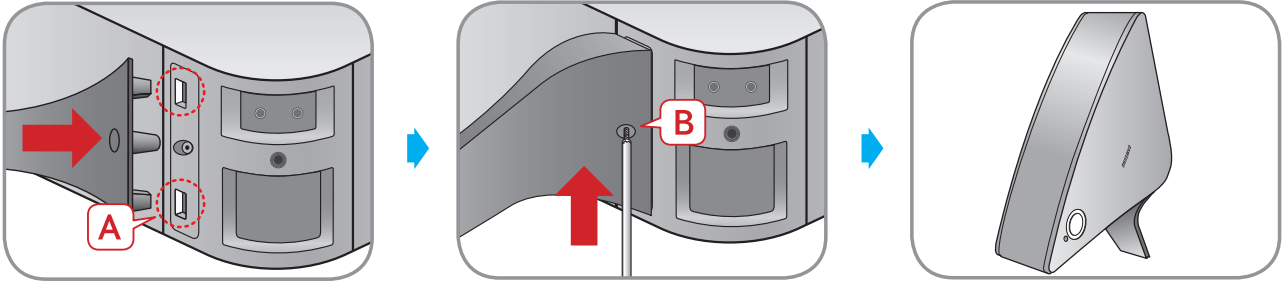
- Make a loop around the core with the power cable.



NOTE

- ✓ It is better to attach Toroidal ferrite cores at each end of the cable, one close to the wall plug and another close to the terminal where it connects to the M7.

Connecting the Stand (WAM550, WAM551, WAM350, WAM351 Only)



- Insert the stand into slot A of the M5/M3.
- Tighten a screw at B.
- The M5/M3 can now be installed vertically.



Caution

- ✓ Do not place the M5/M3 on an unstable surface.



NOTES

- ✓ Turn the speaker upright using the stand to set the speaker to MONO mode. (WAM550, WAM551 Only)
- ✓ Turning the product upright or laying it down in the middle of playing music may temporarily cause unstable sound.

Installing on a Wall (WAM550, WAM551, WAM350, WAM351 Only)

You can purchase your preferred wall-mount additionally to install the product on a wall if you want.

■ Considerations for purchasing

For weight and hole size, refer to page 69. [Click here.](#)

- Endurable load : Above 5.1 lbs (2.3kg)
- Hole size : 1/4 - 20 threaded insert



NOTES

- ✓ Since Wall-mount installation is optional, you should additionally purchase corresponding accessories
- ✓ Please have a qualified installer install the Wall Mount Bracket.
- ✓ Ask professional installation company to mount your product on the wall.
- ✓ Check the strength of the wall before you install the Wall Mount Bracket. If the strength is insufficient, make sure to reinforce the wall before installing the Wall Mount Bracket and the M5/M3 on the wall.
- ✓ For more information, please refer to the Wall Mount's manual.
- ✓ Samsung Electronics is not liable for any damage to the product due to the product being installed inappropriately.

Standby Mode

■ In Wi-Fi / Bluetooth / TV SoundConnect mode


- The product switches to Standby mode if there is no operation (music playing, button operation, app use) for 15 minutes.

■ In AUX mode (WAM750, WAM751 Only)




- The M7 switches to the Standby mode if there is no button operation (either from the top panel or from the app) for 8 hours.



NOTES

- ✓ While playing music in the Wi-Fi, Bluetooth, or TV SoundConnect connection modes, the product will not switch to the Standby mode.
- ✓ While playing music in AUX mode, it may switch to the Standby mode. (WAM750, WAM751 Only)
- ✓ To switch to the Standby mode manually, press and hold the  **Mute** button for more than 5 seconds.

Reset your product

- 1 Press and hold both the  **Internet Radio Preset** and  **Mute** buttons for more than 5 seconds to reset the product.
- 2 The Touch button on the product will blink twice.
- 3 Press and hold the  **Internet Radio Preset** button for more than 5 seconds to reboot the product.



NOTE

- ✓ Resetting erases all information stored in the product.

Connecting to the Wi-Fi network

Preparing connection





- 1 Requirements: Wireless Router, Smart Device
- 2 The wireless router should be connected to the Internet.
- 3 The smart device should be connected to the router via a Wi-Fi connection.

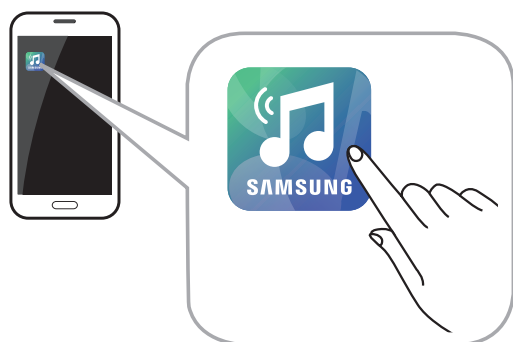
Installing the Samsung Multiroom App

To use the product, you must download and then install the **Samsung Multiroom** App by accessing the app through Google play or App Store.

With the **Samsung Multiroom** App installed, you can play music stored in your smart device, from connected devices and other content providers, and from Internet radio stations through the product.

Android	iOS
Market search : Samsung Multiroom 	Market search : Samsung Multiroom 

Accessing the Samsung Multiroom App

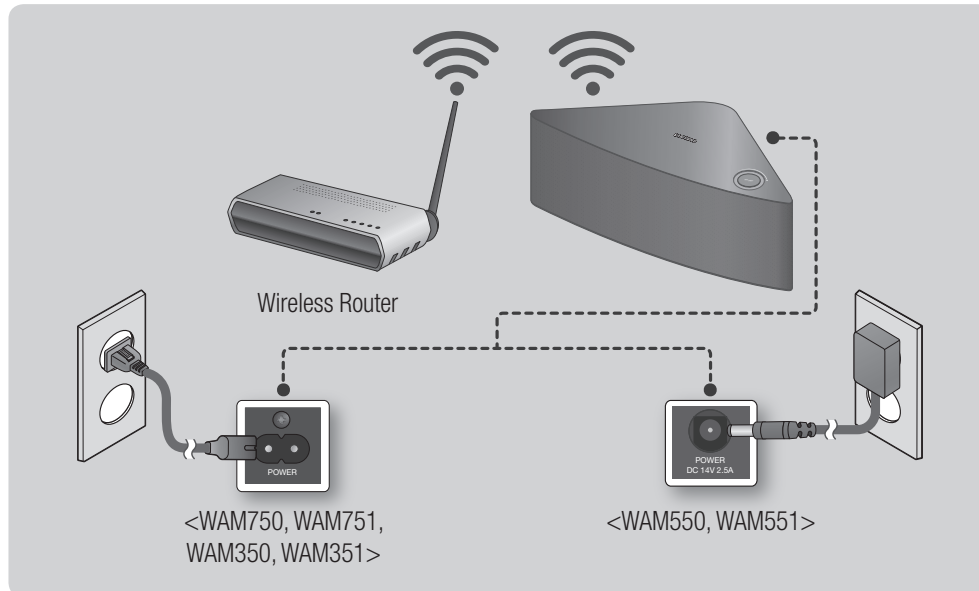


NOTE

- ✓ Please terminate the **Samsung Multiroom** App when speaker are not used because the battery of your smart device can be consumed quickly if the app is working.

Connecting to Wi-Fi

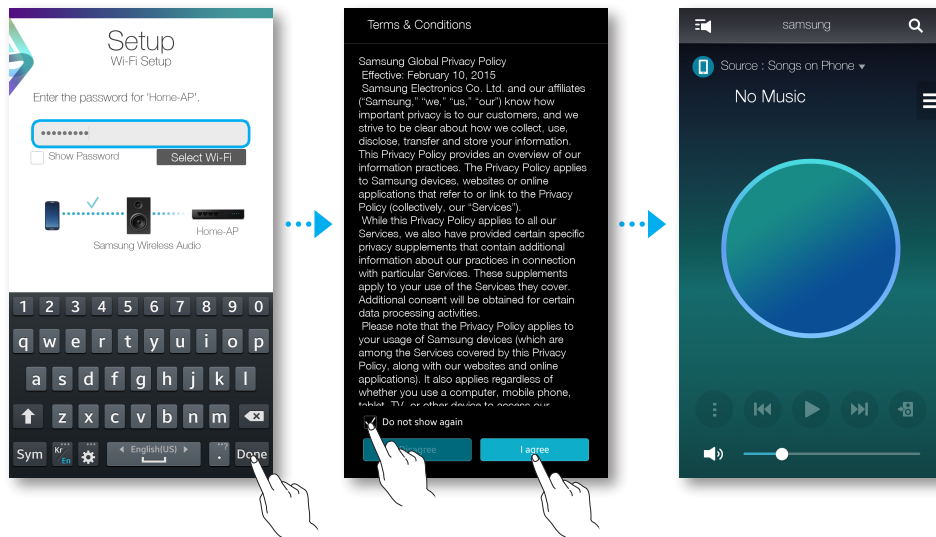
Connecting to Wi-Fi automatically (Android/iOS)



- 1 Plug the product into an electrical outlet.
- 2 On your Smart device, select the **Samsung Multiroom** app.
- 3 Run the **Tutorial** if you want, and then press **Done**.
- 4 Press **Connect Now**.
 - It searches for the device available for pairing.



- 5 Once an available device is found, it attempts to connect to the wireless network. In case of secure network, the password prompt appears on the smart device screen. Use the on-screen keyboard to enter the password.
- Depending on the network environments, the product(s) may not be automatically connected. In such cases, select the **Manual**, and then proceed the next steps by referring to pages 19~23. [Click here.](#)
- 6 Press **Done**.
- Network connection is completed.



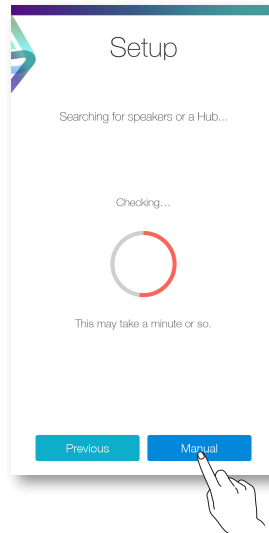
NOTES

- ✓ To connect to your wireless network safely, you must enter the valid password.
 - For connecting to the home or work wireless network, consult your service provider or the network administrator.
- ✓ If the product fails to connect to a network or the network connection does not work normally, move the product closer to the hub or router, and then try again.
- ✓ The distance between devices or obstruction and interference from other wireless devices may influence communication between the product and network.
- ✓ This product may be found by some other Wi-Fi devices. However, they are not allowed to connect to this product.
- ✓ Once the Wi-Fi connection is established initially, it is maintained unless the wireless router is replaced or its network settings are changed.

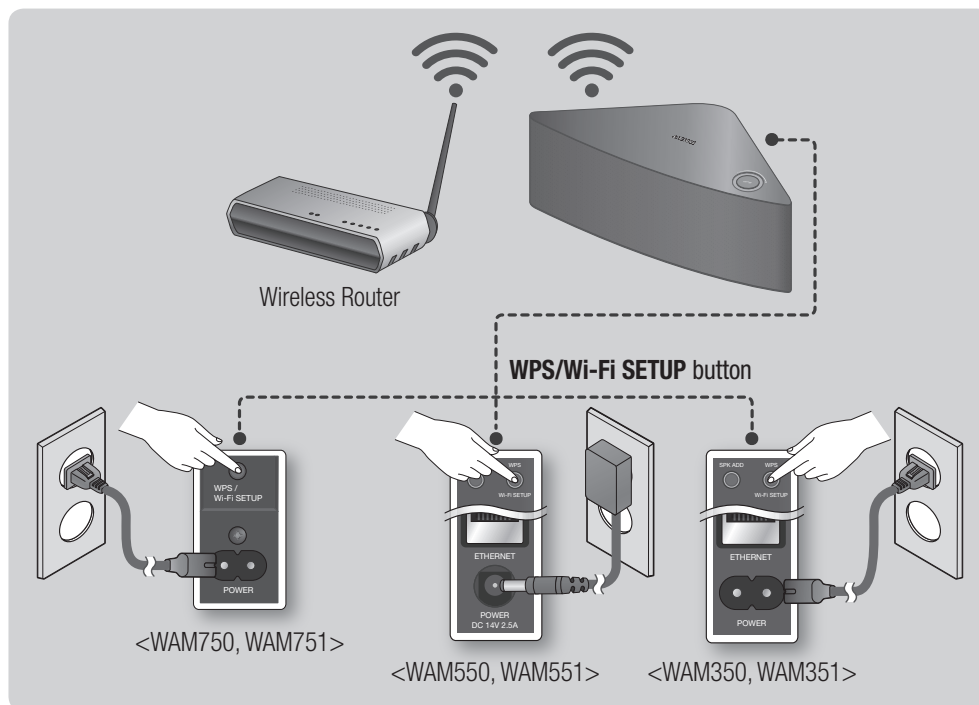
■ Connecting to Wi-Fi manually (Android)

Depending on the network environments, the product(s) may not be automatically connected. In that case, you can set up the product manually to connect to the network.

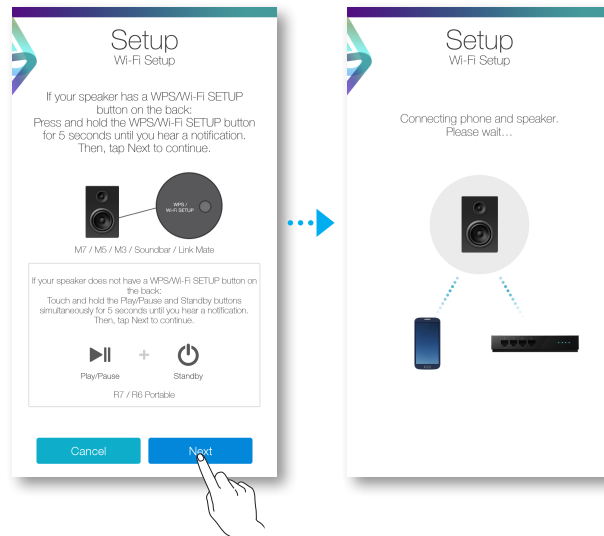
- 1 If the automatic setup fails, select the **Manual**.



- 2 Press and hold the **WPS/Wi-Fi SETUP** button on the back of your product for more than 5 seconds to configure the **Wi-Fi Setup**.
 - The product can wait for 2 minutes in its standby mode until the Wi-Fi connection is established.

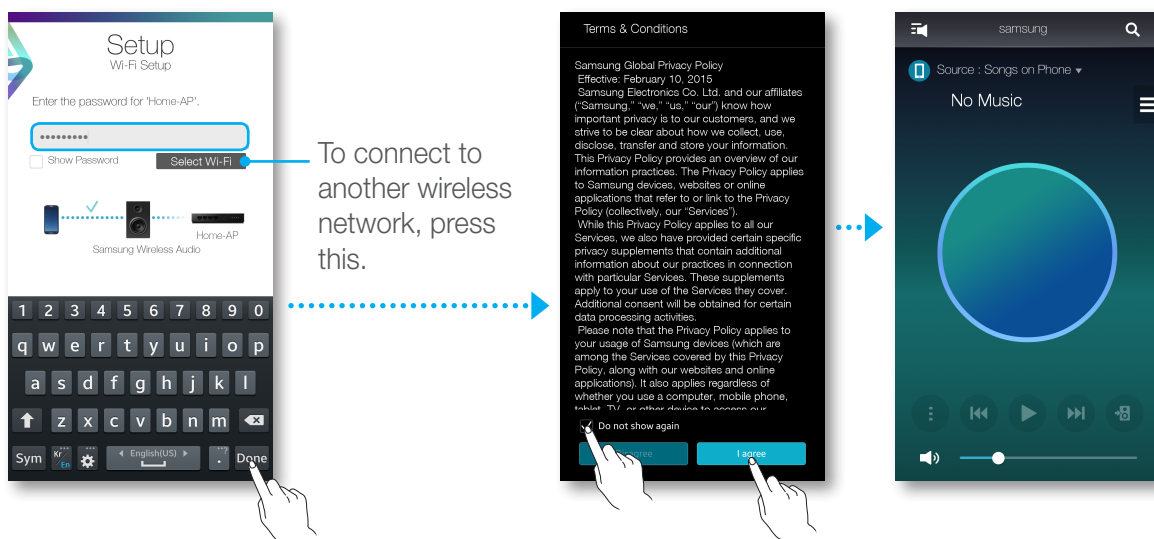


- 3 On your smart device, press **Next**.
- It searches for the device available for pairing.



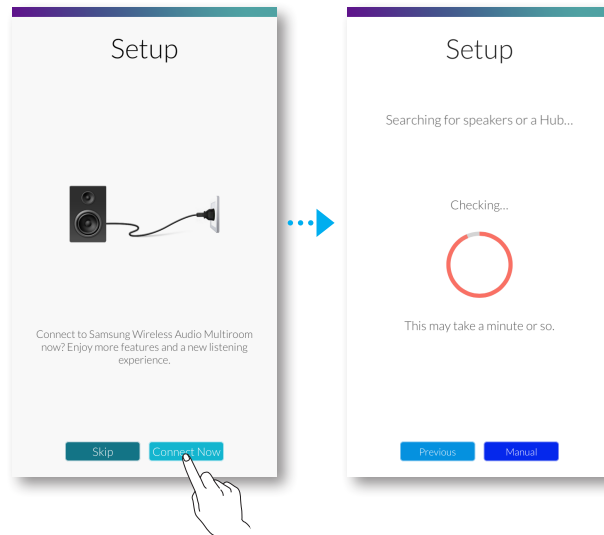
- 4 Once an available device is found, the product tries to connect to the newly found smart device first, then it attempts to connect to the wireless network. In case of secure network, the password prompt appears on the smart device screen. Use the on-screen keyboard to enter the password.

- 5 Press **Done**.
- Network connection is completed.

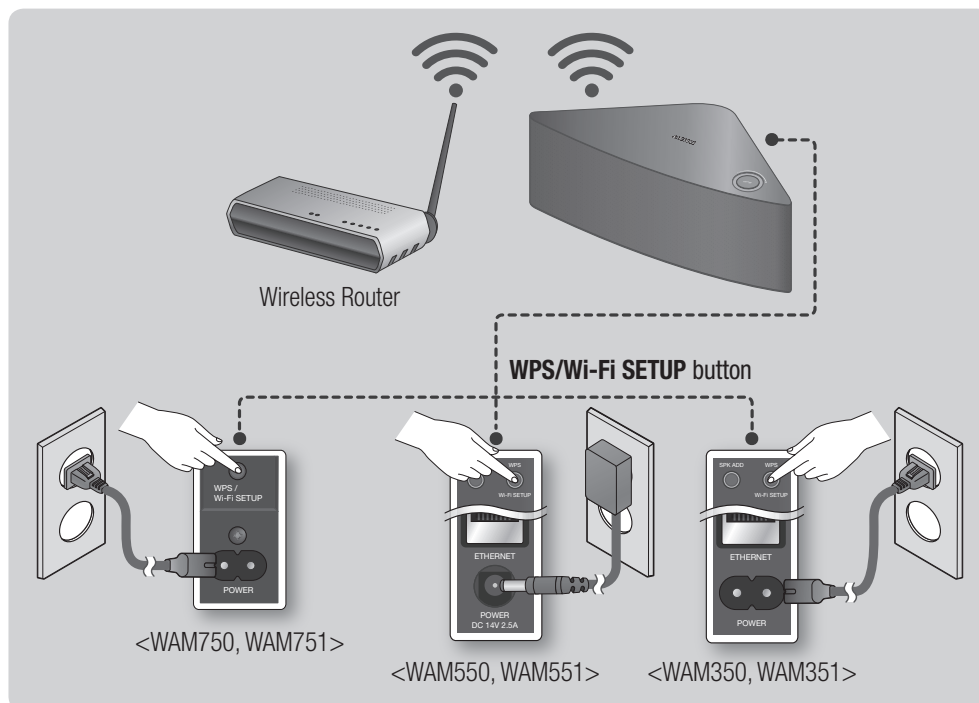


■ Connecting to Wi-Fi manually (iOS)

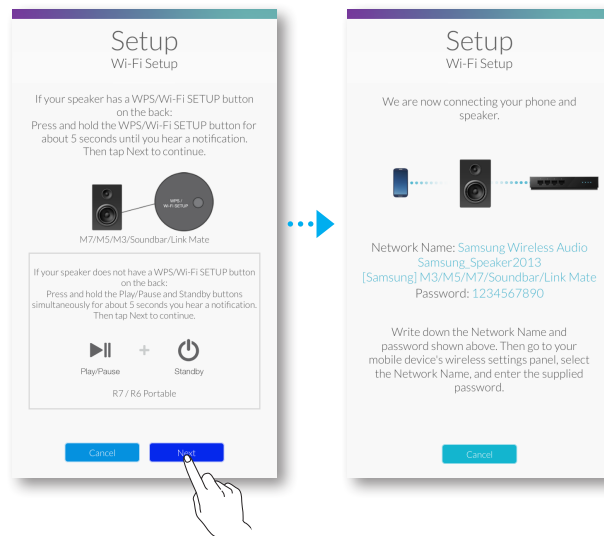
- 1 If the automatic setup fails, select the **Manual**.



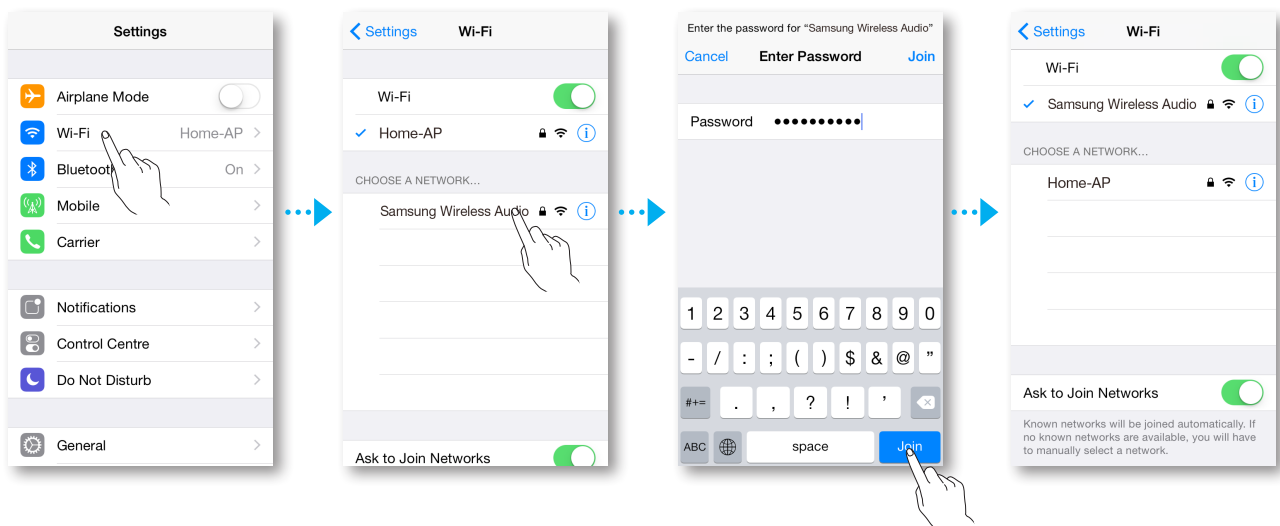
- 2 Press and hold the **WPS/Wi-Fi SETUP** button on the back of your M7/M5/M3 for more than 5 seconds to configure the **Wi-Fi Setup**.
 - The M7/M5/M3 can wait for 2 minutes in its standby mode until the Wi-Fi connection is established.



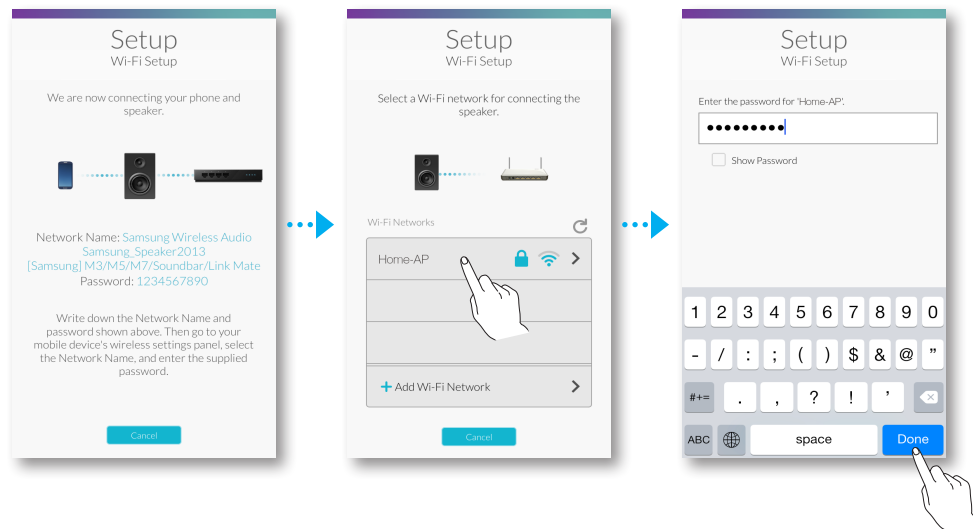
- 3 On your smart device, press **Next**.
- It searches for the device available for pairing.



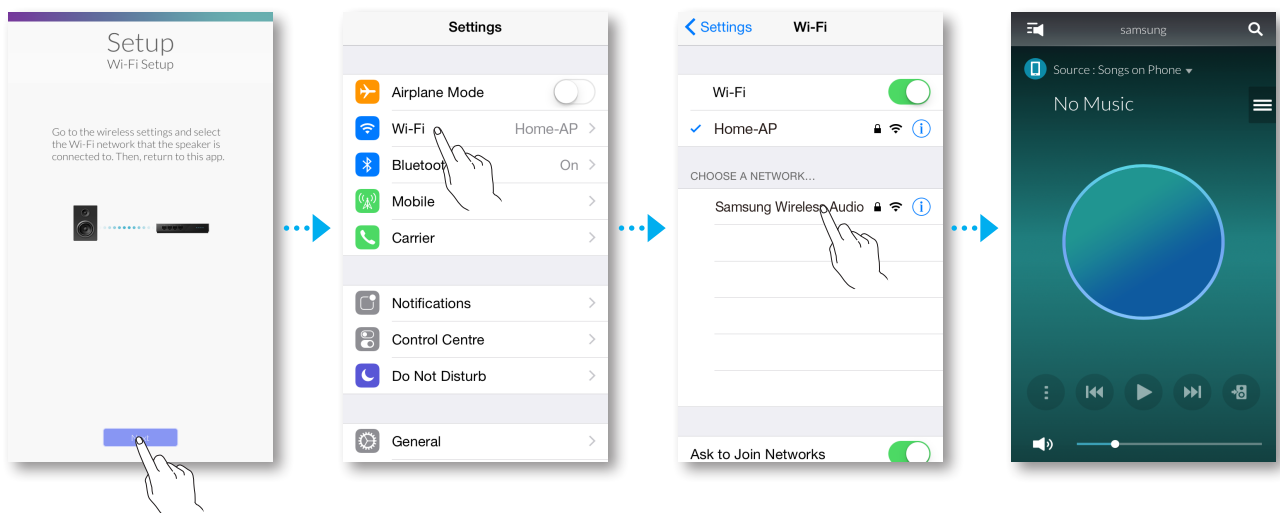
- 4 Go to **Settings** → **Wi-Fi** in iOS, and then select the **Samsung Wireless Audio**.
- 5 To connect your smart device to the M7/M5/M3, use the keyboard that appears to enter your password.
- The default password is **1234567890**.
 - The M7/M5/M3 and the smart device are connected to each other.



- 6 Go back to the **Samsung Multiroom** app.
- 7 Select **Next**.
- 8 From the wireless network list, select the desired one for M7/M5/M3 connection.
- 9 In case of secure network, the password prompt appears on the smart device screen. Use the on-screen keyboard to enter the password.
 - Once you finish entering, the M7/M5/M3 connects to the network.

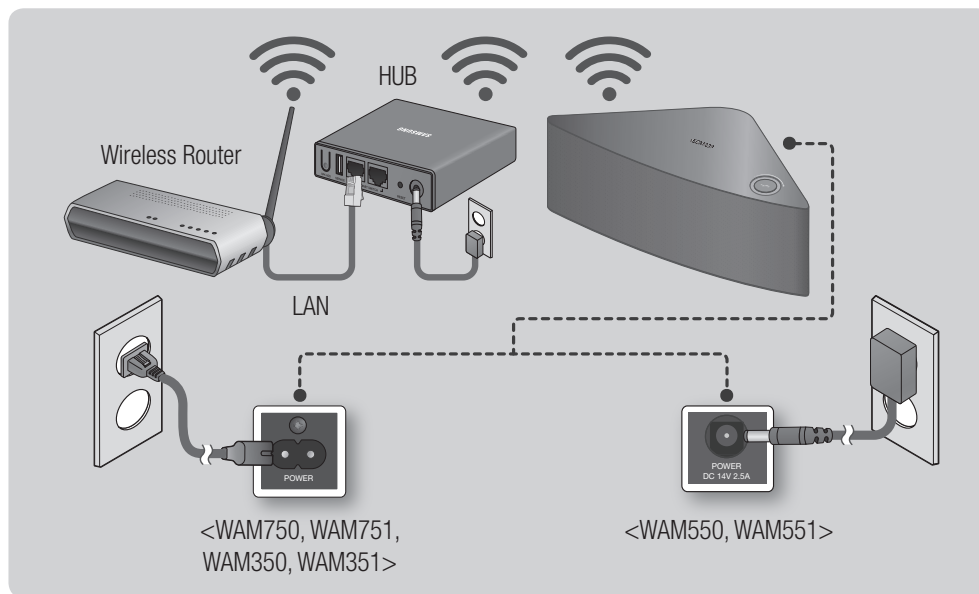


- 10 Go to **Settings** → **Wi-Fi** in iOS, and then select the network which the M7/M5/M3 is connected to.
(The M7/M5/M3 and the smart device should be connected to the same wireless router.)
 - The smart device connects to the network.
- 11 When the M7/M5/M3 is completely connected, press **Next**.
- 12 Go back to the **Samsung Multiroom** app.
 - All network connections are finished.



Connecting with a HUB (Not Included)

- If the product fails to connect to your network or its network connection operates abnormally, place the product closer to the HUB or your router and try again.
- The product is a wireless network device. Its communications with your network may be disrupted because of the distance between it and other devices on the network, obstructions, or interference from other wireless devices.






- 1 Connect a LAN cable to the router and the **ETHERNET SWITCH** on the back of the HUB.



NOTE

- ✓ You can connect the LAN cable to any **ETHERNET SWITCH** Port on the HUB.

- 2 Attach the HUB's power cord to the power port on the rear of the HUB, and then plug the power cord into an electrical outlet.
- 3 The power () and the HUB () indicators on the HUB's front turn on. When the pairing indicator () begins to flash, plug the product(s) into an outlet. The LED indicator on the product starts to flash. If the HUB's pairing indicator does not flash, press the **SPK ADD** button on the rear of the HUB.





NOTE

- ✓ If you are adding multiple Products, connect all the Product's to electrical outlets. If you are not connecting all the Products, refer to pages 28~29. [Click here.](#)

- 4 Wait until the LED indicator on the Product stops flashing. If the Product's LED indicator turns solid blue, pairing is complete.

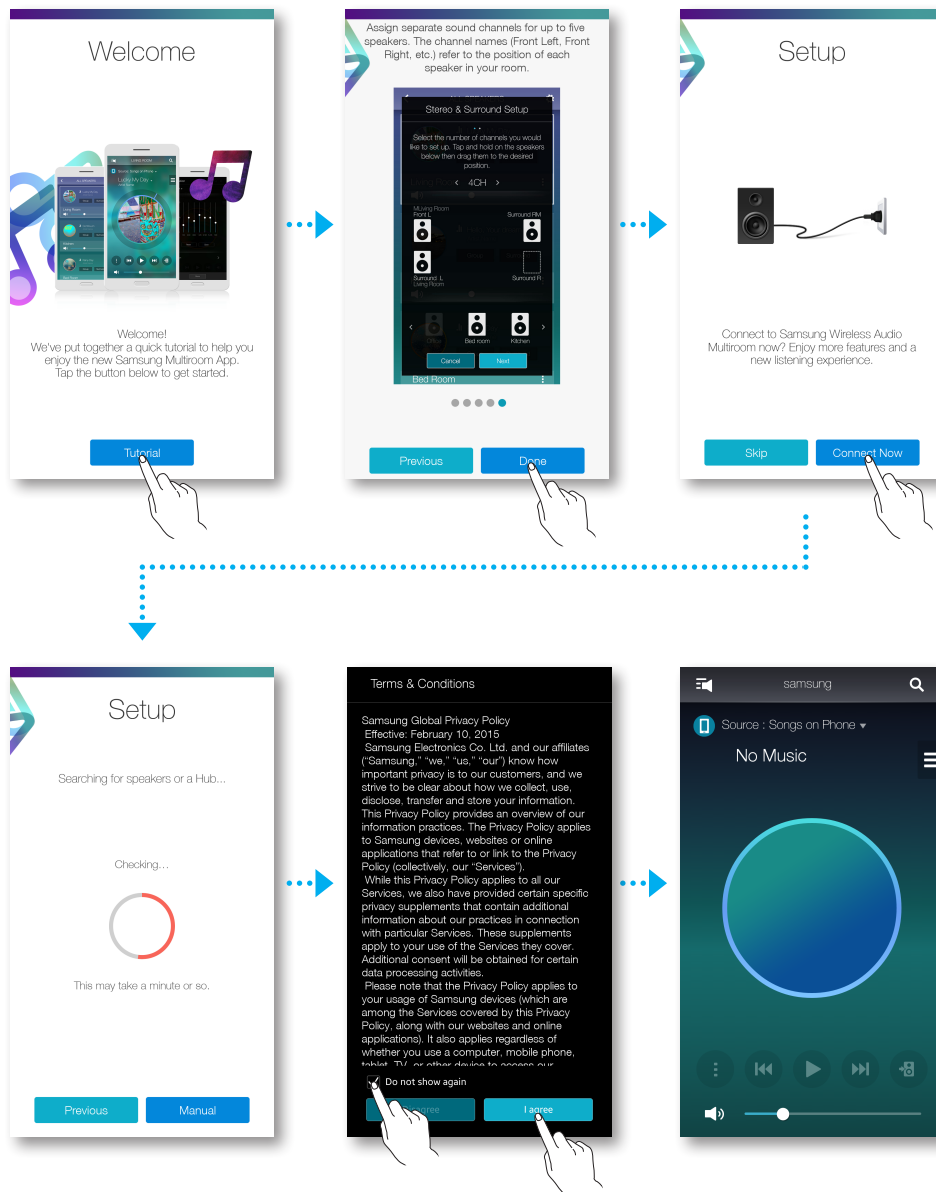


NOTES

- ✓ Place each Product at least 20 inches (50 cm) from the HUB when connecting them to the HUB.
- ✓ Your smart device cannot connect to the Product or the HUB if there is no wireless router.
- ✓ To confirm you have a proper connection, check the pairing indicator on the front of the HUB.
 - When you turn on the HUB for the first time, there is a 20 minute pairing period. The pairing indicator () will blink for these 20 minutes or until pairing occurs. When you press the **SPK ADD** button to pair additional Products, the pairing period is reduced to 10 minutes. The pairing indicator () flashes for 10 minutes or until pairing occurs. Turn on the Product you want to pair while the pairing indicator is flashing.
 - If pairing mode has expired, press the **SPK ADD** button on the rear of the HUB to turn on pairing mode again. Then, turn the product off and then on or press the **SPK ADD** button on the rear of the product to link the product to the HUB.
- ✓ For a proper connection, connect the HUB to your router before turning on the Product.
 - Connecting the Product to the HUB may take a few minutes.
 - There will be a brief sound when the connection is established.

- 5 Connect your smart device to your Wi-Fi network. (The HUB and the smart device should be connected to the same router.)

- 6 Download the **Samsung Multiroom** app from Google Play or the App Store.
- 7 On your smart device, select the **Samsung Multiroom** app. Setup starts.




- 8 If the automatic setup fails, run the App again.

■ Adding a HUB

An product and a HUB may not pair successfully if the product and HUB are too far apart or are on different floors.

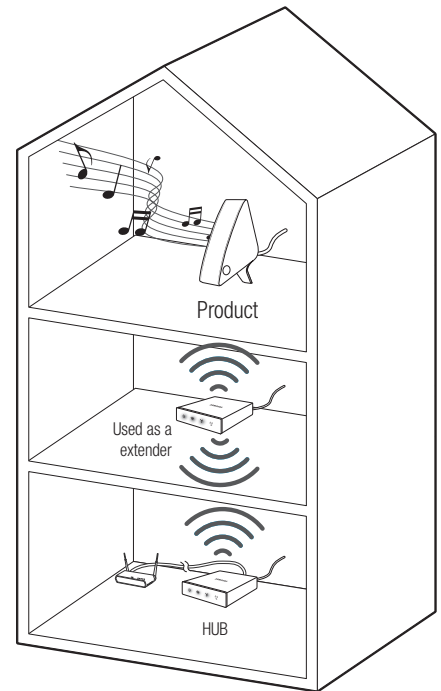
In such cases, you can link two HUBs together by setting the second HUB to Repeater mode. The additional HUB amplifies the signal and lets you pair the product to the closest HUB.

- 1 Set the HUB that is connected to the wireless router to Pairing mode by pressing its **SPK ADD** button for 1 second.
- 2 Plug in the new HUB you are using as an extender, and then press its **SPK ADD** button for 10 seconds.
- 3 The newly added HUB's LED indicators turn off and on, and it switches to Repeater mode.
- 4 Once the connection between the two HUBs has been established, the added HUB's () indicator stops blinking.



NOTES

- ✓ If your smart device is not connected to the wireless router with a Wi-Fi connection, the product will not appear on the **Samsung Multiroom** app.
- ✓ Place the HUB that is in Repeater mode in an appropriate location between the product and the HUB that is connected to the wireless router.
- ✓ You can set only one HUB to Repeater mode.





Relocating the product

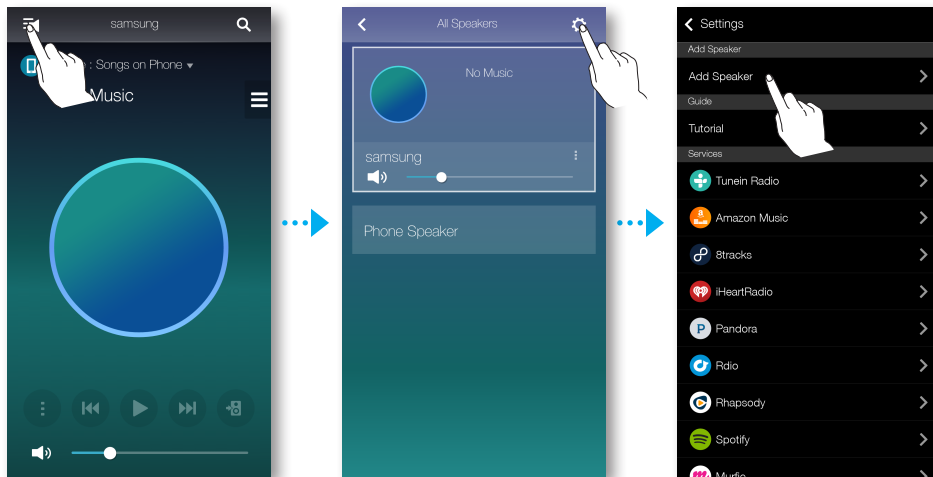
When relocating your product, refer to the below table.

<div>Wireless router</div> <div>HUB</div>	If you want to connect your product to the current wireless router.	If you want to connect your product to a different wireless router.
Without a HUB	Turn off the product, relocate it and then turn it on.	Turn off the product, relocate it, then establish the new connection as described in the installation instructions on pages 17 through 23. Click here.
With a HUB		Connect a LAN cable between the HUB and the new wireless router, turn on the HUB, and then turn on the product.

Adding additional speaker(s)

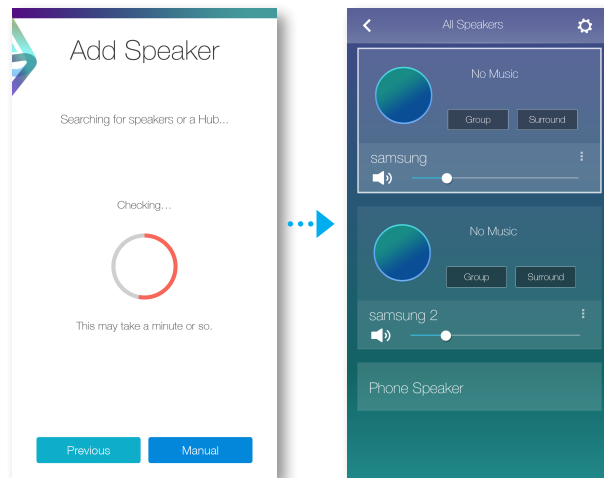
To add additional speaker(s) to an existing speaker connection, use Add Speaker function.

- 1 Plug the product into an electrical outlet.
 - If connecting the product into an electrical outlet, the Wi-Fi is automatically switched into standby mode.
 - The speaker can wait for 2 minutes in its standby mode until the Wi-Fi connection is established.
- 2 Run the **Samsung Multiroom** app on your smart device.
- 3 Press  to view the list of all speakers.
- 4 Press .
- 5 Press **Add Speaker**.



- 6 Once an available device is found, it attempts to connect to the wireless network. In case of secure network, the password prompt appears on the smart device screen. Use the onscreen keyboard to enter the password.
 - Depending on the network environments, the speaker(s) may not be automatically connected. In such cases, refer to pages 19~20 [Click here.](#) for Android, or pages 21~23 [Click here.](#) for iOS devices to continue.


- 7 The additional new speaker is completely added.



Connect with Bluetooth function

Connecting to Bluetooth Devices

You can connect the product to a Bluetooth device to enjoy the music stored in your Bluetooth device.


- 1** Plug the product into an electrical outlet, and then press the  **Bluetooth** button on its top panel.
- 2** Turn on the Bluetooth function of your smart device, and then select **Search**.
- 3** Select the **[Samsung] M7**, **[Samsung] M5** or **[Samsung] M3**.
The Bluetooth connection between the smart device and the product is made.



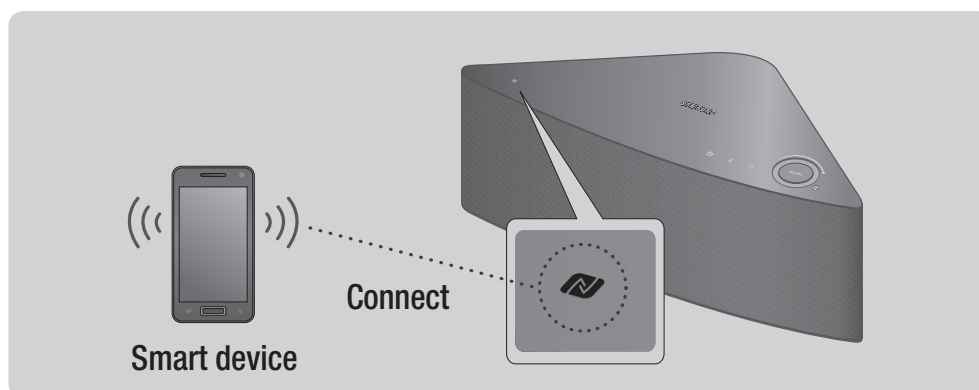
NOTES


- ✓ A Bluetooth device may cause noise or malfunction, depending on usage, when:
 - A part of your body is in contact with the receiving/transmitting system of the Bluetooth device or the product.
 - It is subject to electrical variation from obstructions caused by a wall, corner, or by office partitioning.
 - It is exposed to electrical interference from same frequency-band devices including medical equipment, microwave ovens, and wireless LANs.
- ✓ Pair the product with the Bluetooth device while they are close together.
- ✓ Bluetooth connection mode, the Bluetooth connection will be lost if the distance between the product and the Bluetooth device exceeds 32 feet (10 m). Even within range, the sound quality may be degraded by obstacles such as walls or doors.
- ✓ This product may cause electric interference during its operation.
- ✓ The product supports SBC data (44.1kHz, 48kHz).
- ✓ The AVRCP feature is not supported.
- ✓ Connect only to a Bluetooth device that supports the A2DP (AV) function.
- ✓ You cannot connect to a Bluetooth device that supports only the HF (Hands Free) function.
- ✓ Only one Bluetooth device can be paired at a time.
- ✓ If you unplug the product, the Bluetooth connection is terminated. To re-establish the connection, plug the product into an outlet, and then set the Bluetooth connection again.

Connecting with NFC function (WAM750, WAM751, WAM550, WAM551 Only) - Android

You can connect the M7(M5) to Bluetooth devices easily by gently touch the smart device to the  mark on the top panel of the M7(M5).



Connect your NFC compatible device to enjoy music with high quality stereo sound, all without wires.



- 1 Plug the M7(M5) into an electrical outlet.
- 2 Turn on the NFC function on your Smart device, and then gently touch the device to the  mark on the top panel of the M7(M5).
- 3 The Bluetooth screen appears on your Smart device.
- 4 Select **OK**.
- 5 Select the desired track to play from your smart device's music list.
- 6 The M7(M5) plays the track you selected.

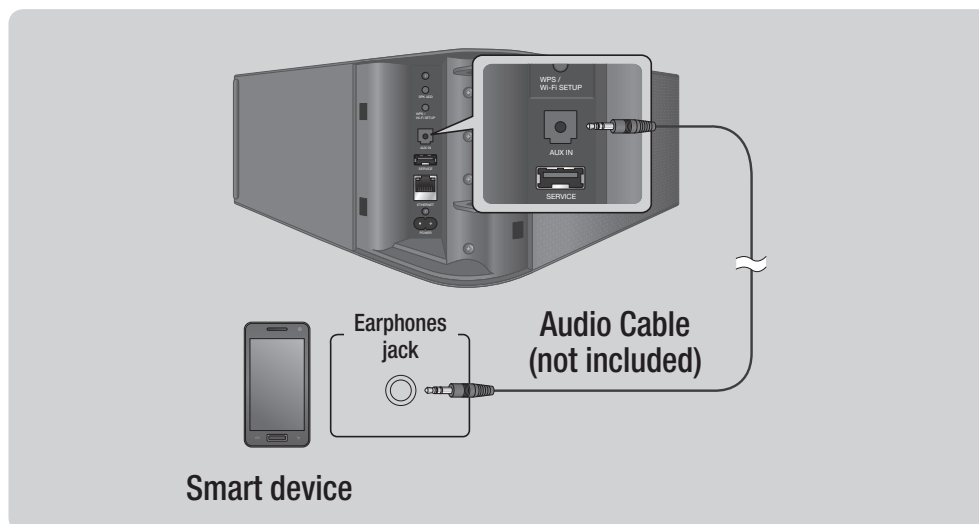


NOTES

- ✓ To disconnect the Bluetooth connection, gently touch the smart device to the  mark on the top panel of the M7(M5) again.
- ✓ Please be careful not to disturb other buttons around the NFC tag.
- ✓ Do not place or play back your NFC device on top of the NFC tag on the M7(M5). Vibrations from the music may cause the device to tip over and cause the M7(M5) to disconnect or damage the device.
- ✓ The NFC function is built into Android devices running Android OS 4.1 Jellybean or later.
- ✓ The position of the NFC antenna differs on different devices. Check where the NFC antenna is before connecting.
- ✓ If your device is covered with a thick case, the connection may not succeed.
- ✓ The  mark is a trademark or registered trademark of NFC Forum, Inc. in the United States and in other countries.
- ✓ If you unplug the M7(M5), the NFC connection is terminated. To re-establish the connection, plug the M7(M5) into an outlet, and then set the NFC connection again.
- ✓ Tagging the NFC label while the App has not been installed; it guides to the web page for installing the App.
- ✓ If tagged, the NFC label with the App installed, the App runs automatically.

Connecting to the AUX IN (WAM750, WAM751 Only)

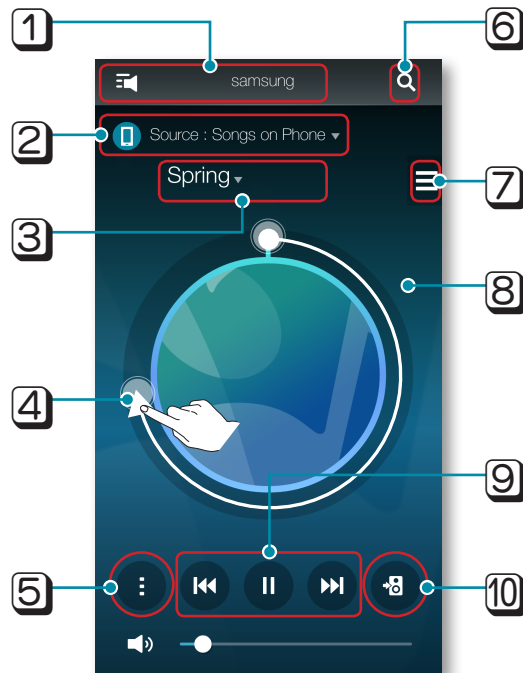
This section explains how to connect the M7 to an audio device using the **AUX IN** terminal.



- 1 Plug the M7 into an electrical outlet.
- 2 Connect the audio cable (not included) to the M7's **AUX IN** and the smart device's **AUX OUT**.
- 3 Select the desired track to play from your smart device's music list.
- 4 The M7 plays the track you selected.

Using the Samsung Multiroom App


App at a glance

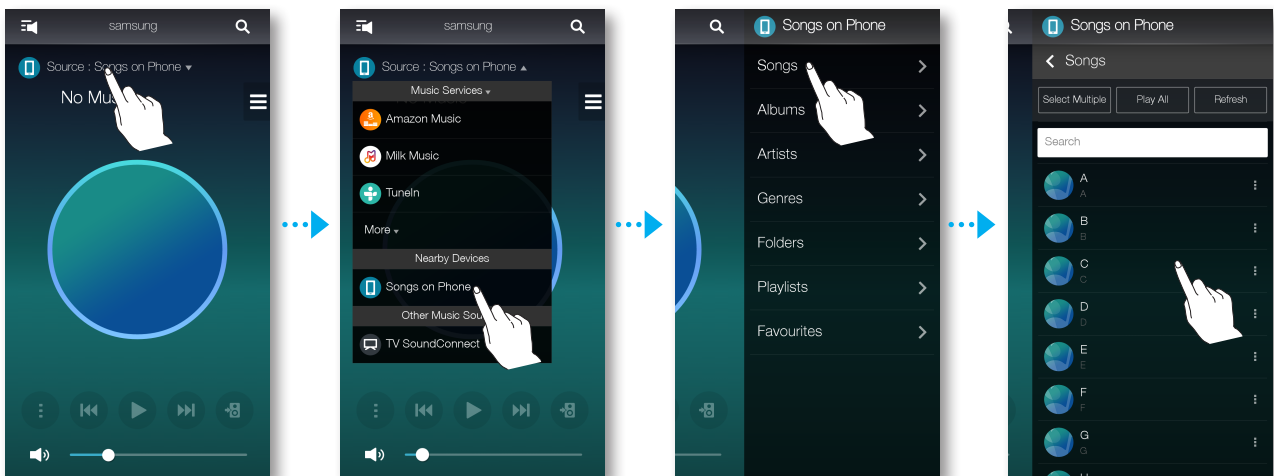


- | | |
|----|---|
| 1 | Check the full list of connected products to either change or setup. |
| 2 | Change sound source. |
| 3 | Either check the queue or edit the playlist. |
| 4 | Rotate while dragging the wheel to select a music from the queue. Release the wheel to play the music.
- You can select a piece of music by turning the inside of the wheel. |
| 5 | Play menu |
| 6 | Enter a keyword to search for the music desired. |
| 7 | Change to another song from the current source. |
| 8 | If you lightly touch the outside of the wheel on the screen, you can go to the playback bar screen to check total playback time for all the pieces of music. |
| 9 | Play, Pause, or Previous/Next Song |
| 10 | To change only the product of the music currently playing. |

Playing Music

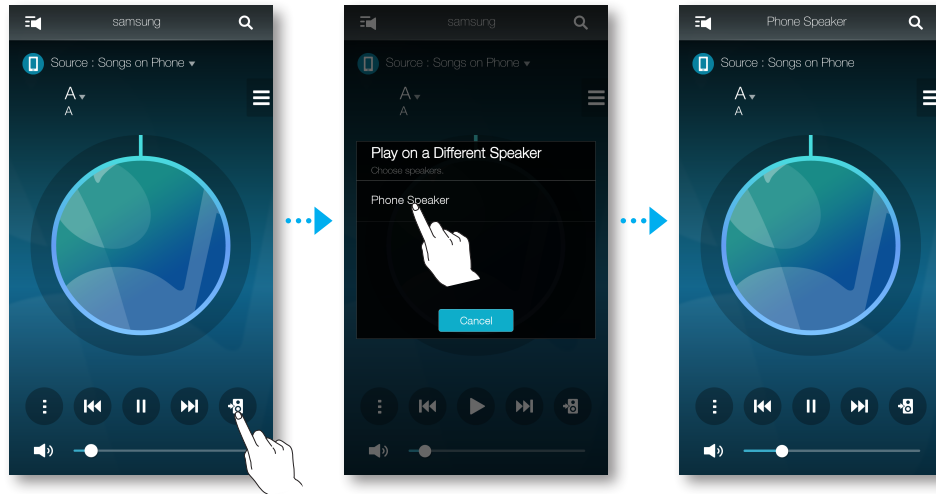
Playing a music file stored in the smart device

- 1 Press **Source**.
- 2 Select the **Songs on Phone** (files stored in the smart device).
- 3 Press , and then select your desired category.
 - **Songs** : Lists all the music files by name.
 - **Albums** : Lists all the music files by album.
 - **Artists** : Lists all the music files by artist.
 - **Genres** : Lists all the music files by genre.
 - **Folders** : Lists all the music files by stored folder.
 - **Playlists** : Lists all the music files by playlist.
 - **Favourites** : Lists all the music files marked as favourites.
- 4 After selecting a category, find and select your desired music.



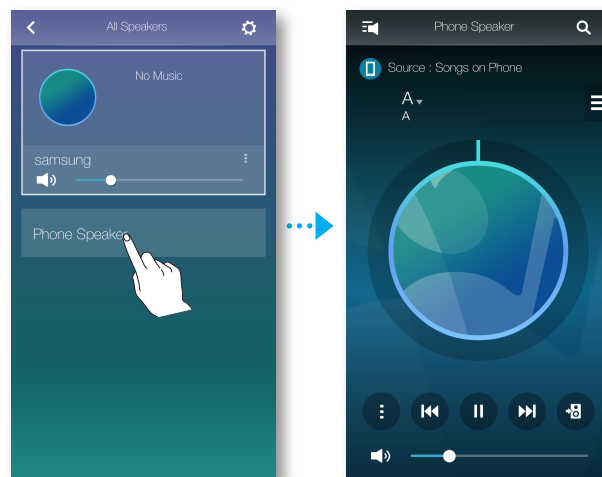
■ Listen to the music through the phone speaker

- 1 Press  in the home screen, and then select **Phone Speaker**.



Or

- 1-1 Select **Phone Speaker** from the list of **All Speakers**.



- 2 You can listen to the music stored in your mobile phone through the **Phone Speaker**.



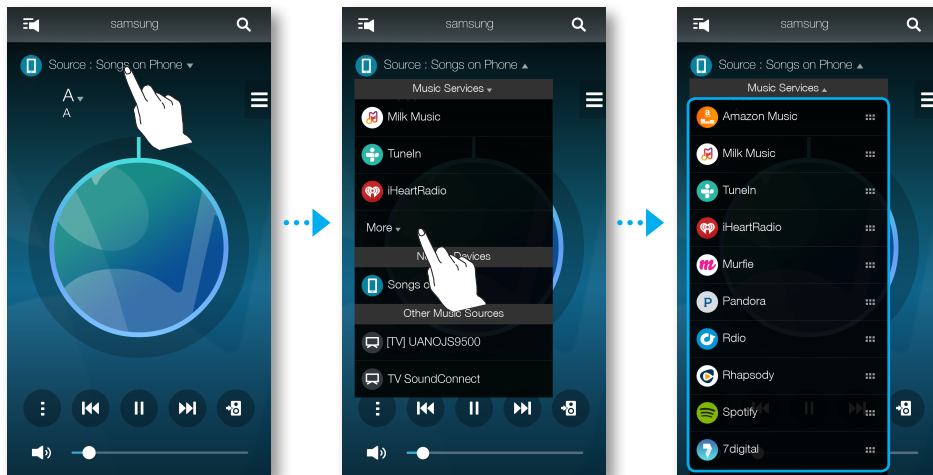
NOTES

- ✓ If Wi-Fi connection is not established, enjoy music through your **Phone Speaker**.
- ✓ You can enjoy only the music stored in your mobile phone through the **Phone Speaker**.

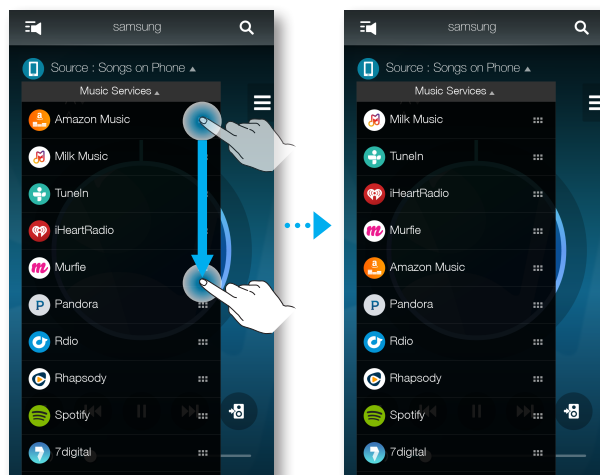
■ Listening to streaming music

You can select your desired contents service to listen to music.

- 1 Press **Source**.
- 2 Select **More**.
The entire list of **Music Services** is displayed.
- 3 From the **Music Services**, select your desired service.



- 4 Drag  to change the order of displayed music services.

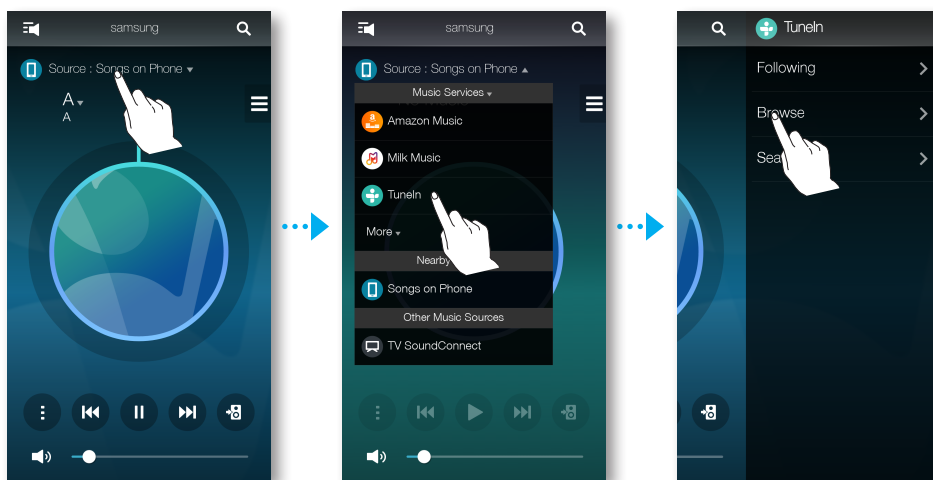


NOTES

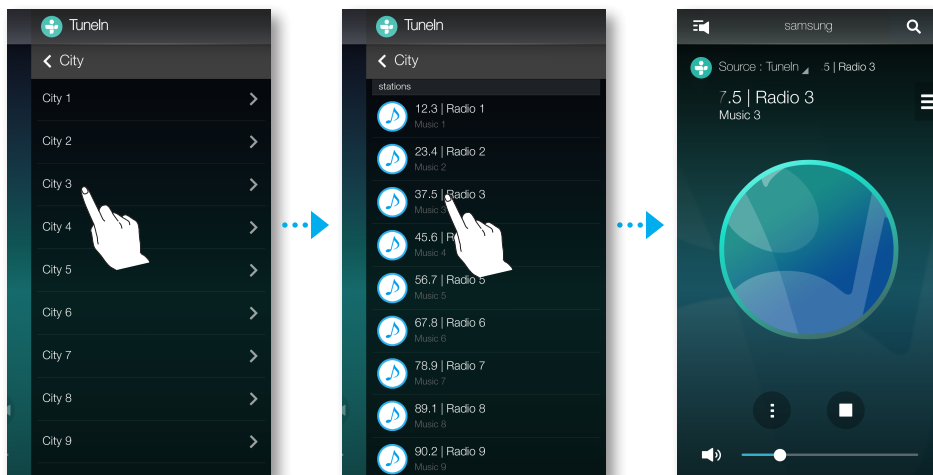
- ✓ Depending on your region or manufacturer, supported content services may differ.
- ✓ Some music services may require you to sign up for a membership or log in.
- ✓ You may not subscribe to a service using your smart device.
To use a for-pay service, first subscribe to the service through your computer.
- ✓ Some Tunein radio channels may be restricted according to their site policy.

Listening to the internet radio

- 1 Press **Source**.
- 2 Select **TuneIn**.
- 3 Select your desired category.
 - **Following** : Shows the list of stations added to the preset list or marked as you are following. By default, 3 radio stations are displayed in the preset list.
 - **Browse** : Lists all supported Internet radio stations.
 - **Search** : Allows you to search for a desired internet radio station using keypad input.




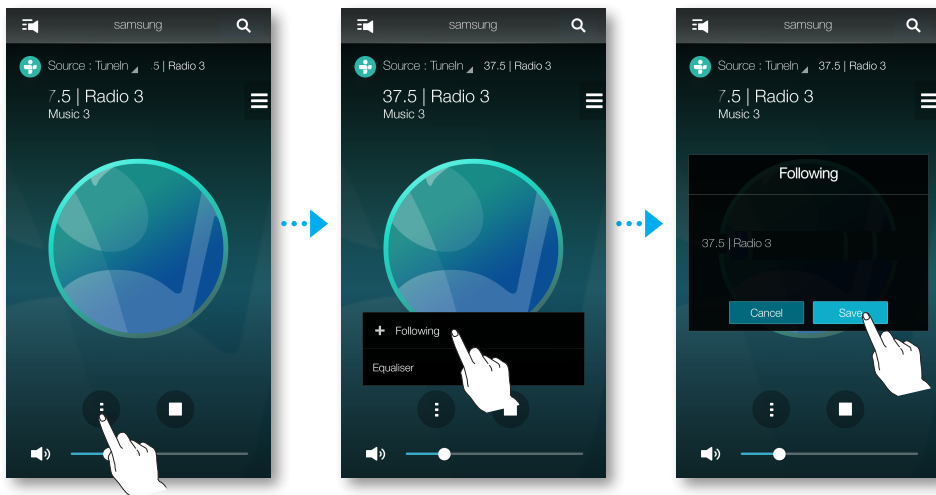
- 4 Find and select a station.



■ Following a station


You can add a channel to the **Following** list.

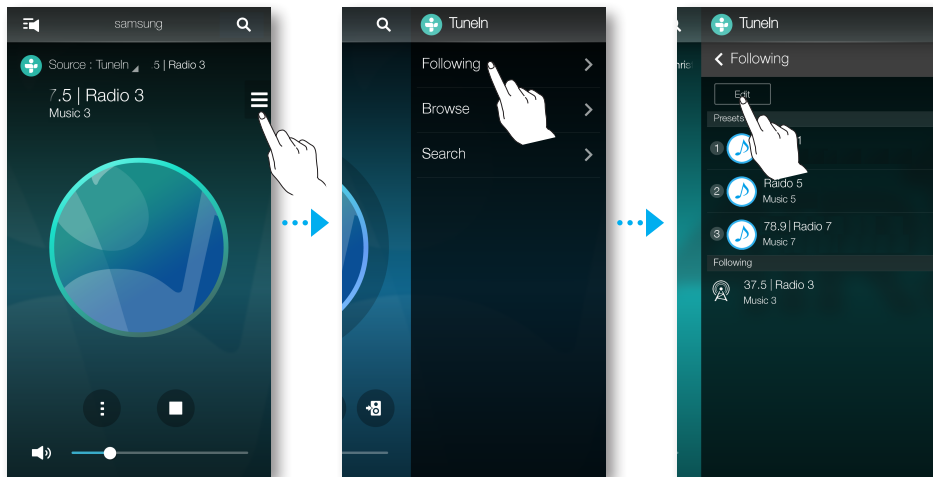
- 1 Select the desired channel.
- 2 Press  to display a popup menu, and then select **+ Following**.
- 3 Press **Save**.
 - The channel you are currently listening to is added to the **Following** list.



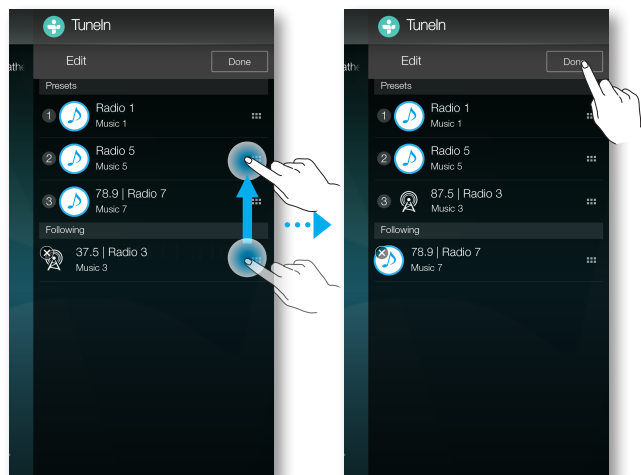
■ Setting Presets

You can add the internet radio channel you are following into the preset list, or rearrange the displaying order in the list.

- 1 Press , and then press **Following**.
- 2 Press **Edit**.



- 3 Drag the desired channel from the **Following** to the **Presets**.
- 4 To finish editing, press **Done**.

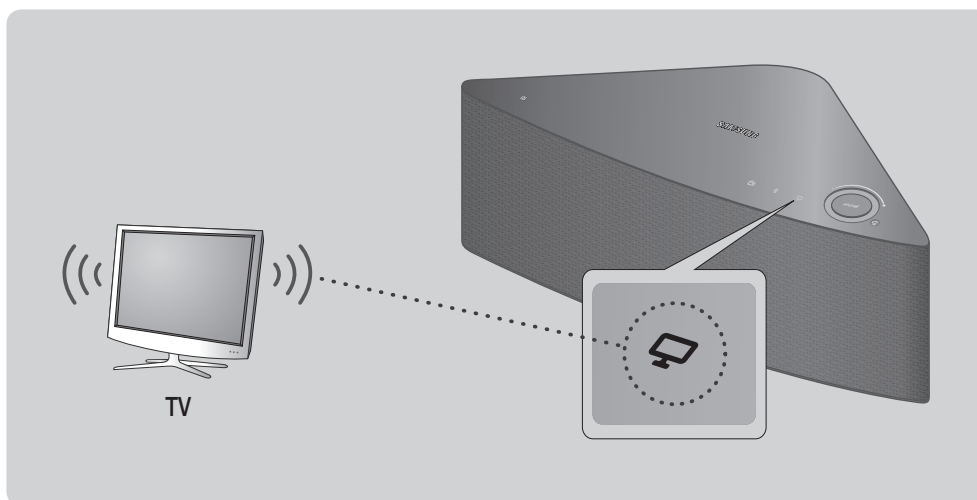


Connecting TV to the speaker

■ Connecting to TV via Bluetooth (TV SoundConnect)

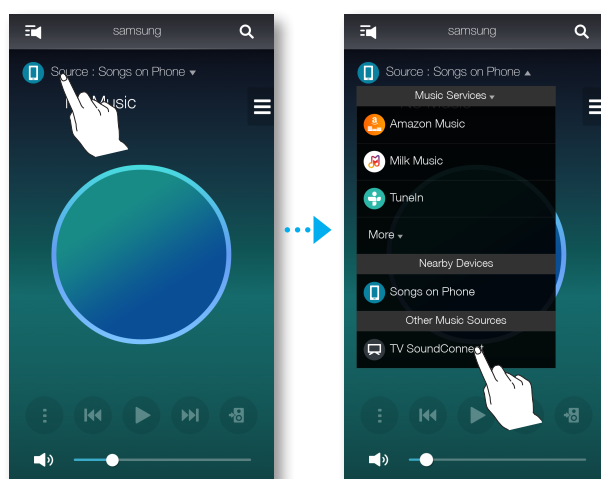
TV SoundConnect function allows you to conveniently connect Samsung TV to external speaker(s) wirelessly and enjoy the TV sound.

- 1 Plug the product into an outlet, and then press the  **TV SoundConnect** button on its top panel.



Or

- 1-1 Press **Source** in the home screen, and then select **TV SoundConnect**.



- 2 A message asking whether to proceed with Bluetooth pairing appears.



NOTE


- ✓ Set **Add New Device** to **On** in the TV's TV SoundConnect Settings menu. (Refer to the TV's user manual for details.)

- 3 When a message appears to check whether to establish Bluetooth pairing or not, select **Yes**.

The product is paired to the TV.

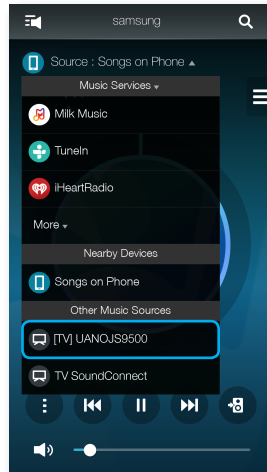


NOTES

- ✓ Press and hold the  **TV SoundConnect** button for more than 5 seconds to reset the TV SoundConnect.
- ✓ Optimal pairing distance is 6.5 feet(2 m) or less.
- ✓ If you unplug the product, the TV SoundConnect connection is terminated. To re-establish the connection, plug the product into an outlet, and then set the TV SoundConnect connection again.
- ✓ When the speaker is in Standby mode, the TV SoundConnect connection is not terminated.
- ✓ Operational range of TV SoundConnect
 - Recommended pairing range: up to 6.5 feet(2 m).
 - Recommended operating range: up to 32 feet(10 m).
 - The connection may be lost or sound may stutter if the distance between the TV and the product exceeds 32 feet(10 m).
- ✓ The SoundConnect feature is available on some Samsung TVs released since 2012. Check whether your TV supports the SoundShare or SoundConnect function.
(For further details, refer to the TV's user's manual.)
- ✓ Instability in the network environment may cause connection to be lost or sound to stutter.

■ Connecting to TV via Wi-Fi

- 1 Set the TV and speaker to the same Wi-Fi network.
- 2 Press **Source** at Home screen and select the TV to connect from **Other Music Sources** list.



- 3 A message appears to ask if you want to perform network pairing process to TV.
- 4 Select **Yes** to connect TV to the speaker.
- 5 You can enjoy music on TV through the speaker.

■ Listening to music from other devices in network

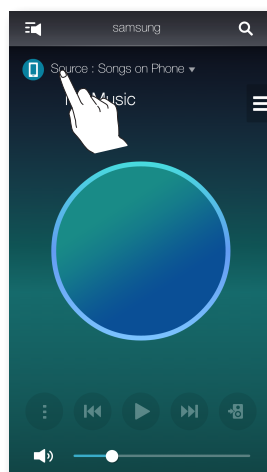
You can listen to music stored on another device that is connected to the same network.

Go to www.samsung.com to download and install the Wireless Audio - Multiroom for Desktop program.

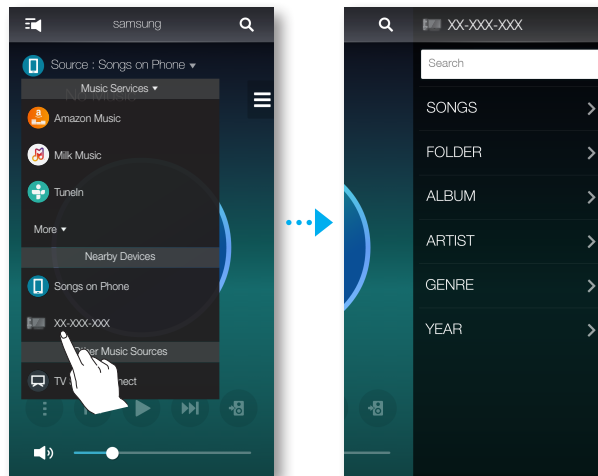
You can share music stored in your PC connected smart devices.

For details, refer to "Wireless Audio - Multiroom for Desktop" on pages 63~64. [Click here.](#)


- 1 Press **Source**.

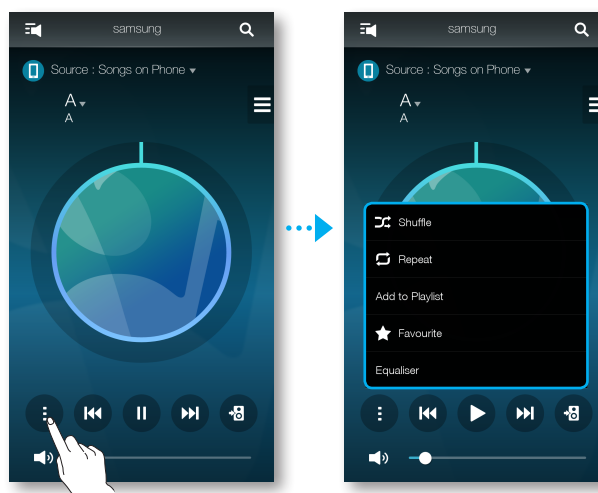


- 2 From the **Nearby Devices**, select the desired device.
- 3 You can play music files stored in your selected device through the product.



Using playback menu


- 1 Press .
- 2 When a popup menu appears, select your desired function.
 - **Shuffle** : It randomly plays back music files from the standby list.
 - **Repeat** : It repeats the current music file or all the music files from the standby list.
 - **Add to Playlist** : Creates a new playlist or adds currently playing music into the current playlist.
 - **Favourite** : Adds the currently playing music file to the favourites list.
 - **Equaliser** : You can suitably adjust the volume of music currently playing by frequency depending on the genre, preference and place.

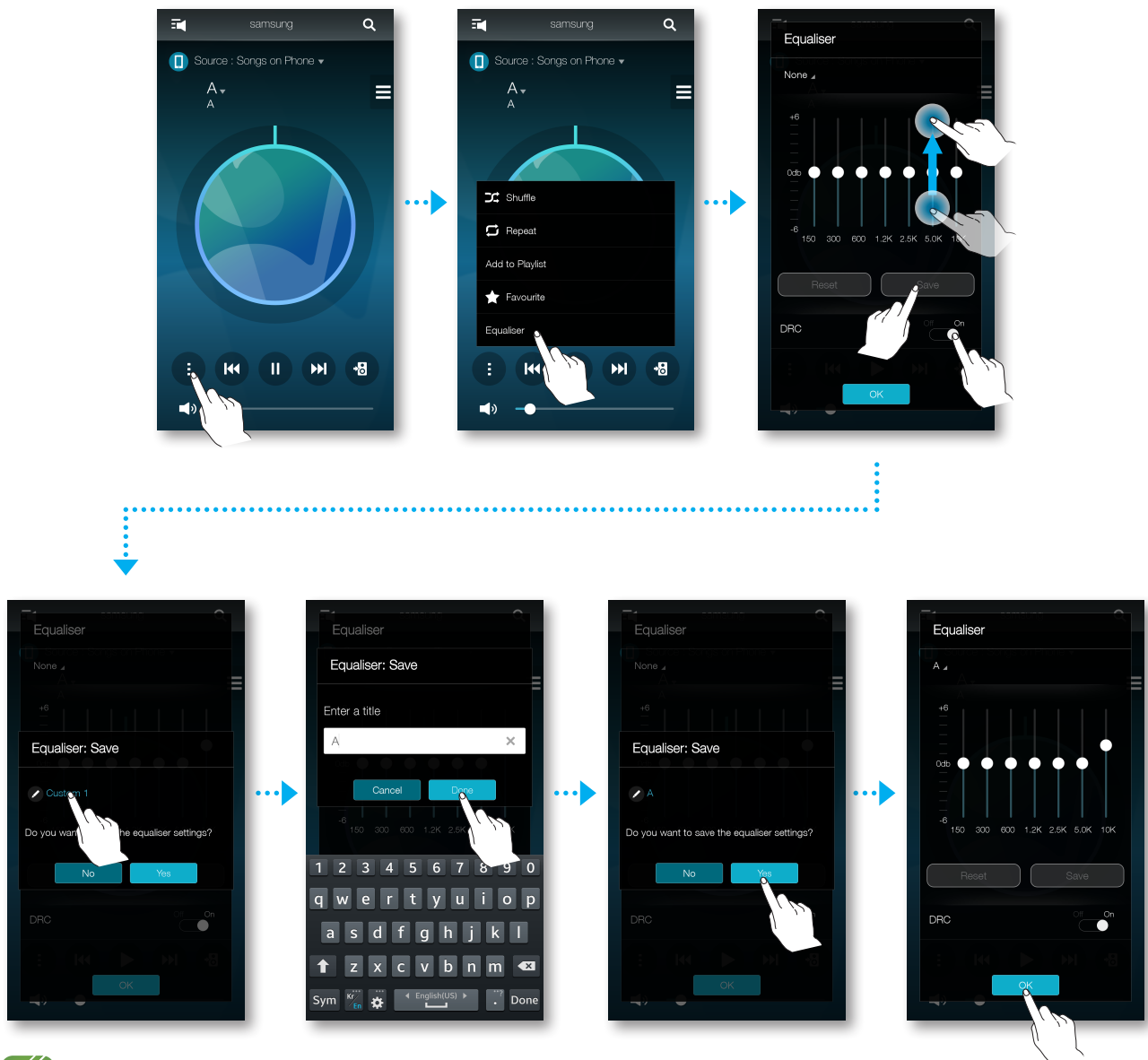


■ Adjusting Equaliser and DRC

You can select one of the presets provided by default in the Equaliser option or create your own settings by adjusting the frequencies manually.

In addition, set **DRC** to **On** to change volume smoothly. If the volume is turned down, you can listen to the quiet and gentle voice clearly.

- 1 Press .
- 2 When a popup menu appears, press **Equaliser**.
- 3 To adjust the bass or treble frequency ranges, drag the slider up or down. Set **DRC**, and then press **Save**.
- 4 Press **Custom**, and then enter a name. Press **Done**.
- 5 Press **Yes**, and then select **OK**.





NOTE

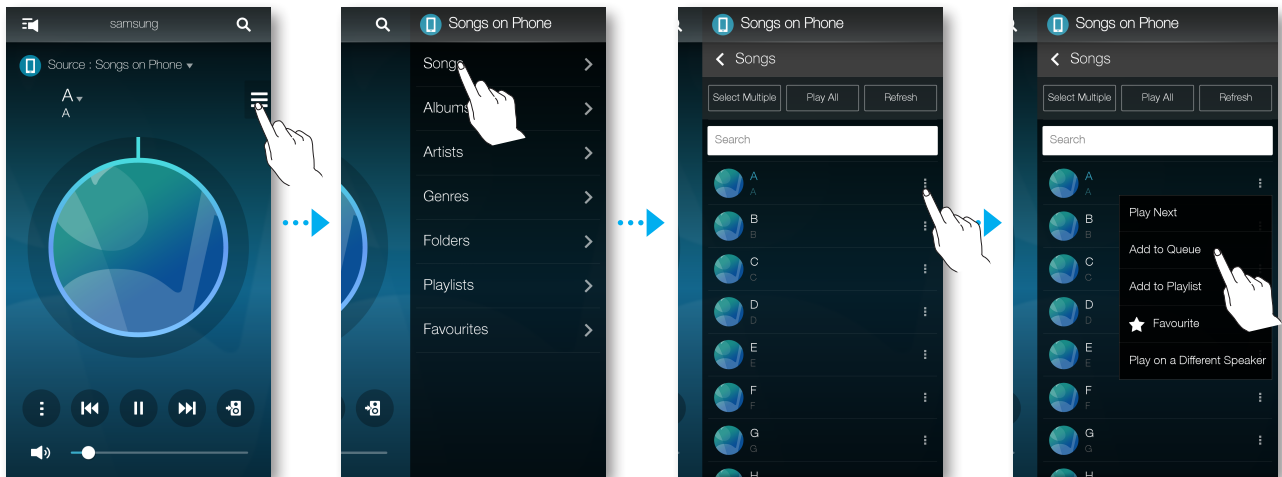
- ✓ This function is not available if speakers are grouped.

■ Managing a queue

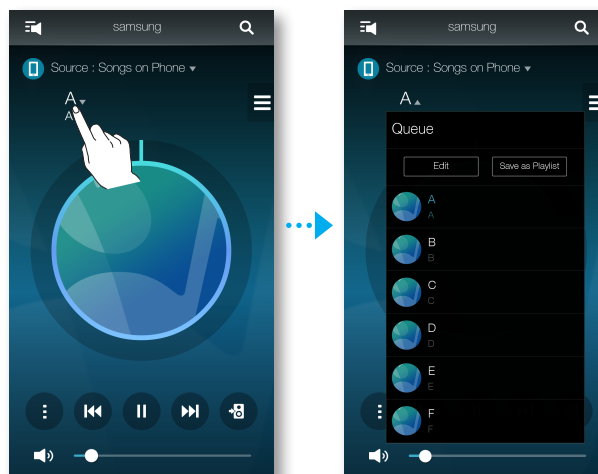
■ Adding music to the queue

You can add new music to the current music list or edit the music list.

- 1 Press , and then select **Songs**.
- 2 Select  of the music to add, and then select **Add to Queue**.
(Select **Select Multiple** to save multiple music pieces in the **Queue** at the same time.)



- 3 Select the music title at Home screen to check the saved **Queue**.

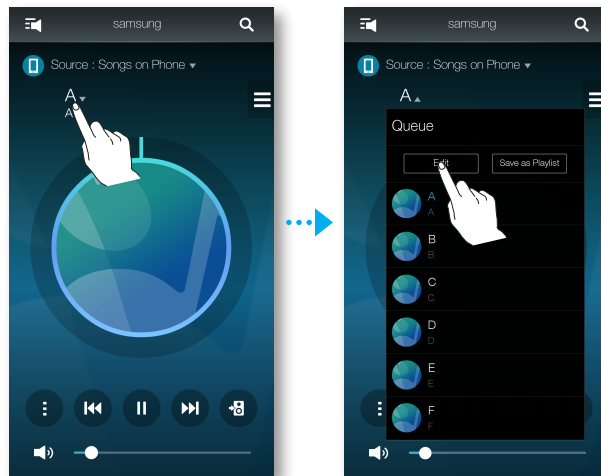



NOTES

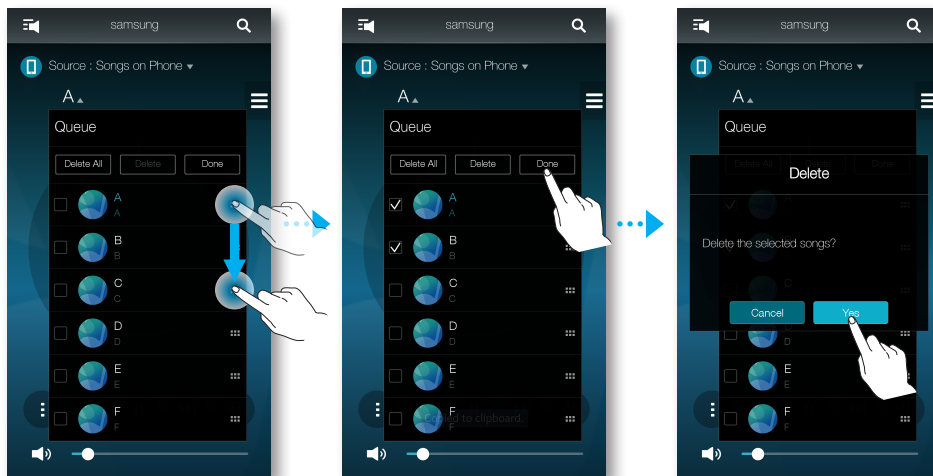
- ✓ You can save up to 360 pieces of music in the queue.
- ✓ You cannot save music played by station-based music providers such as Tunein, Pandora, etc. in the queue.

■ Editing the queue

- 1 Select the music title at Home screen, and then press **Edit**.



- 2 Drag  to change the order of music, select your desired music to delete, and then press **Done**.
- 3 Press **Yes**.

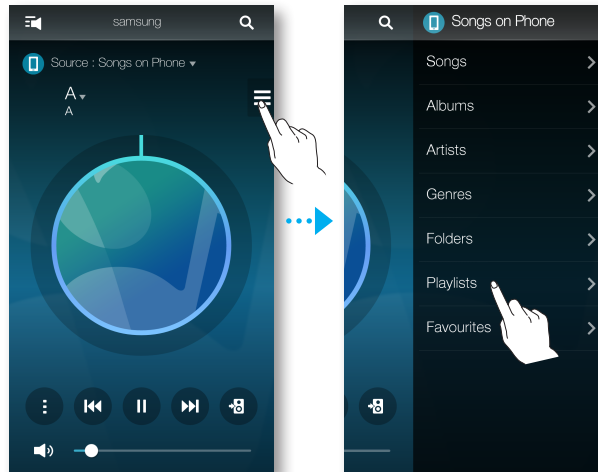


■ Managing a playlist

■ Creating a Playlist

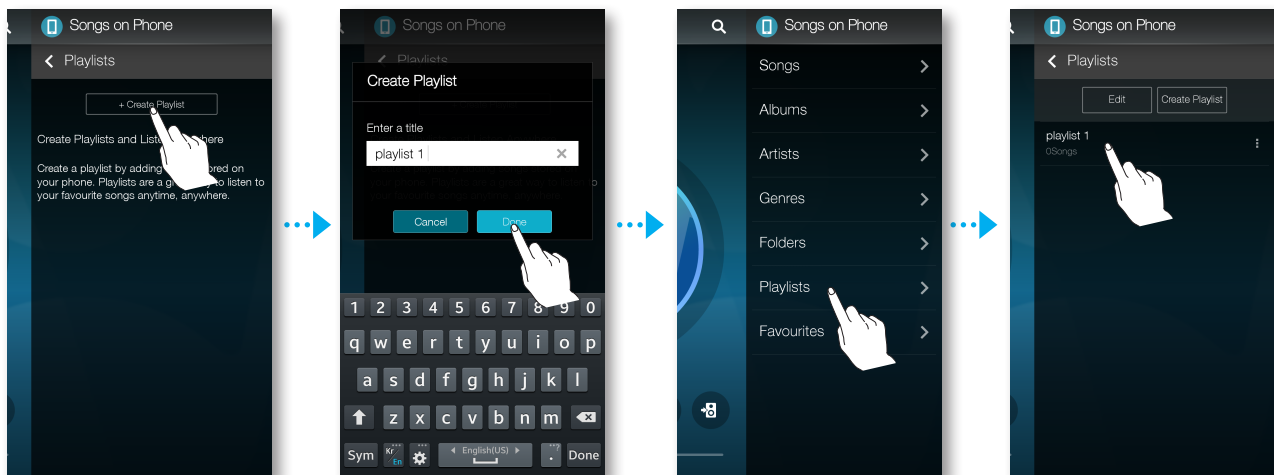
You can create your own playlist to save or edit.

- 1 Press , and then select **Playlists**.

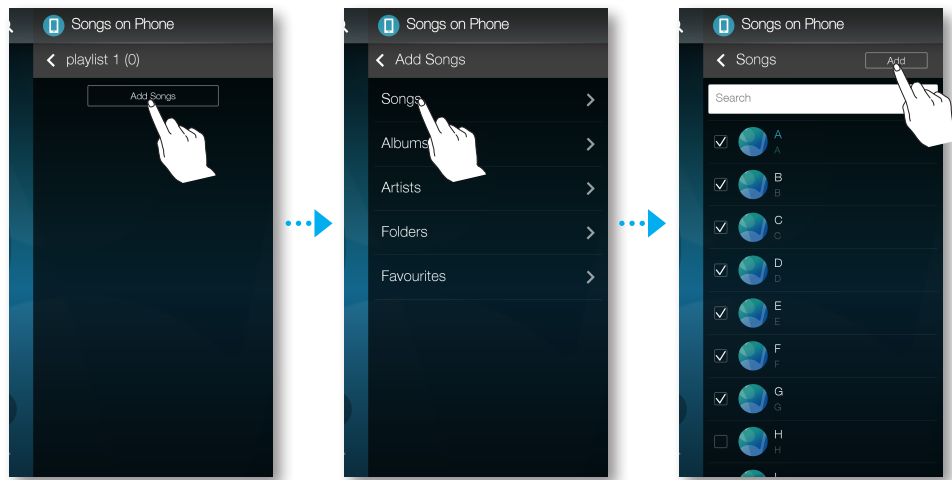


- 2 Select **Create Playlist**, and then enter a name for the playlist. Press **Done**.

- 3 Select **Playlists**, and then press the created playlist.



- 4 Press **Add Songs**, and then select **Songs**.
- 5 Select your desired music to save in playlist, and then press **Add**.

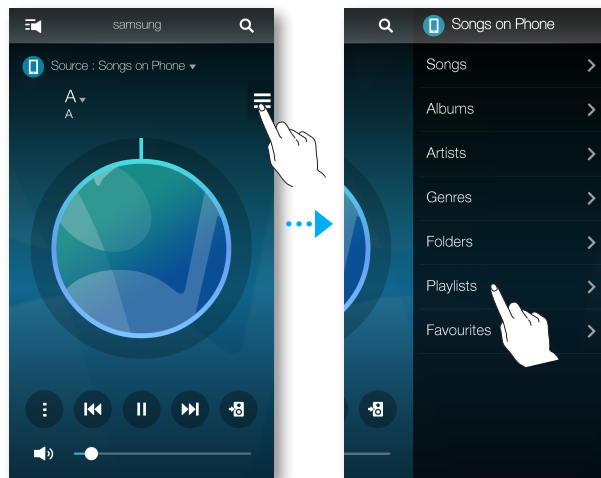


NOTE

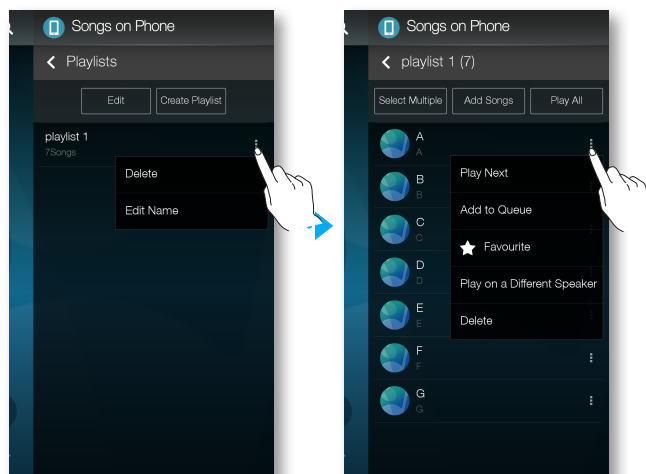
- ✓ You can save up to 360 pieces of music in the playlist.

■ Editing a Playlist



1 Press , and then select **Playlists**.

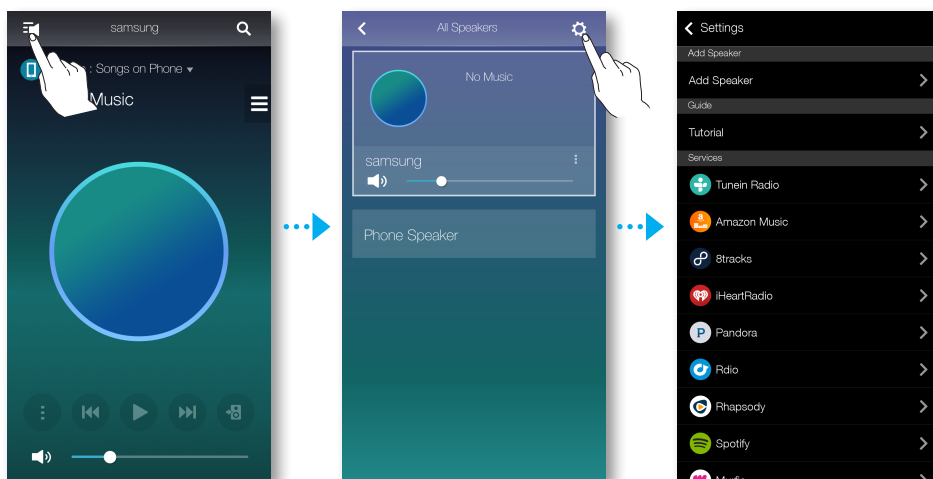


2 Select  of **Playlists** or the  of the music to use additional menu.



Using the Settings menu

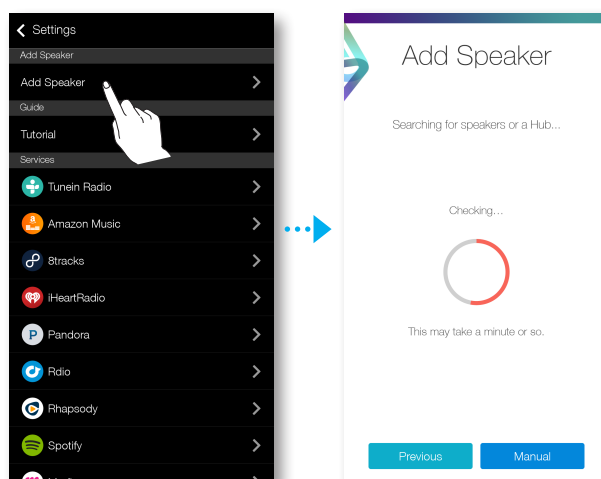
- 1 On your Smart device, select the **Samsung Multiroom** app.
- 2 Press  to view the list of all speakers.
- 3 Press .



Add Speaker

Add Speaker

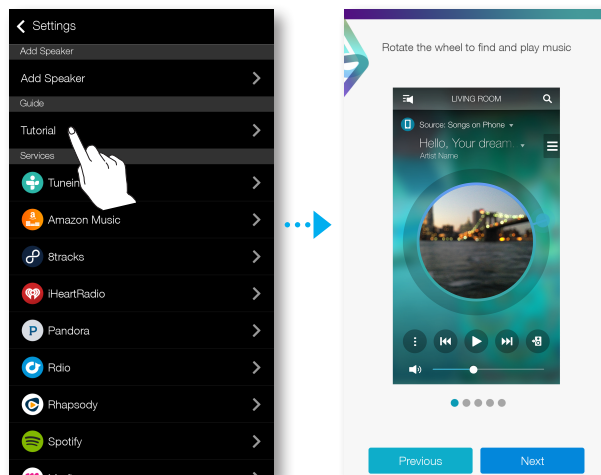
To add additional speaker(s) to an existing speaker connection, refer to "Adding additional speaker(s)" on pages 28~29. [Click here.](#)



Guide

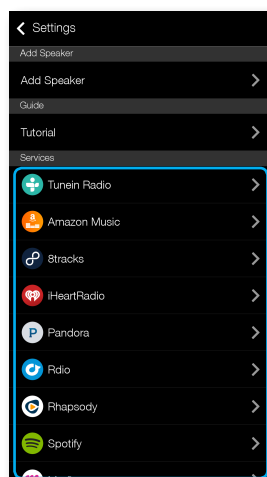
Tutorial

Select the **Tutorial** to learn how to use the app.



Services

Displays a list of available services.



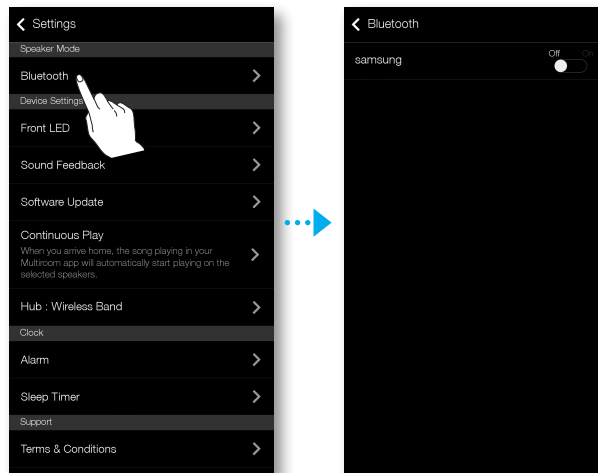
NOTES

- ✓ Depending on your region or manufacturer, supported content services may differ.
- ✓ Some music services may require you to sign up for a membership or log in.
- ✓ You may not subscribe to a service using your smart device.
To use a for-pay service, first subscribe to the service through your computer.
- ✓ Some Tunein radio channels may be restricted according to their site policy.
- ✓ Supported music service may be added or deleted according to corresponding policy.

■ Speaker Mode

■ Bluetooth

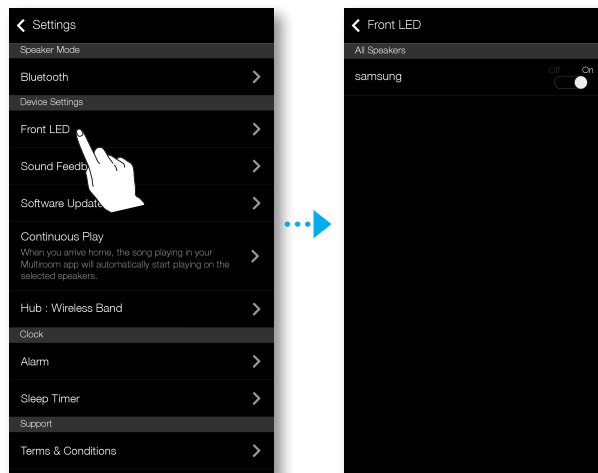
- **Off** : Turns off the **Bluetooth**.
- **On** : Turns on the **Bluetooth**.



■ Device Settings

■ Front LED

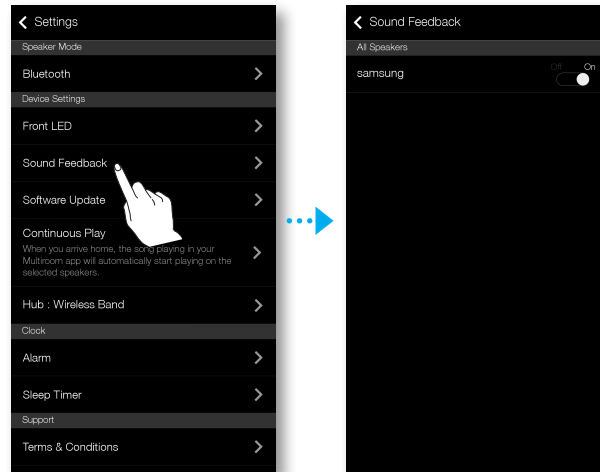
- **Off** : Turns off the product's **Front LED** indicators.
- **On** : Turns on the product's **Front LED** indicators.



■ Sound Feedback

Sound Feedback is a function to indicate current status of product through the sound.

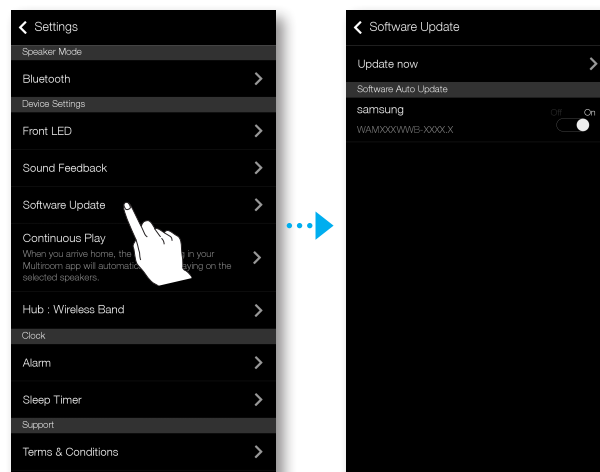
- **Off** : Turns off the **Sound Feedback**.
- **On** : Turns on the **Sound Feedback**.



■ Software Update


Shows the product's current software version, and lets you turn auto update on or off.

- **On** : When on, automatically updates the software when new firmware is released.
- **Off** : Turns off the auto update function.






NOTES

- ✓ Auto update is available when your product is connected to a network and the **Software Auto Update** function is set to **On**.
- ✓ It is strongly recommended that **Software Auto Update** settings on all the products used are set to **On**. Problems with networked functions may otherwise occur due to incompatibility issues when a variety of product software versions is used on linked products.
- ✓ **Software Auto Update** will only update the speaker when the speaker is in Standby mode.
To manually place the speaker in Standby mode:
 - 1) Set **Software Auto Update** to **On**.
 - 2) Press and hold the  **Mute** button for more than 5 seconds.

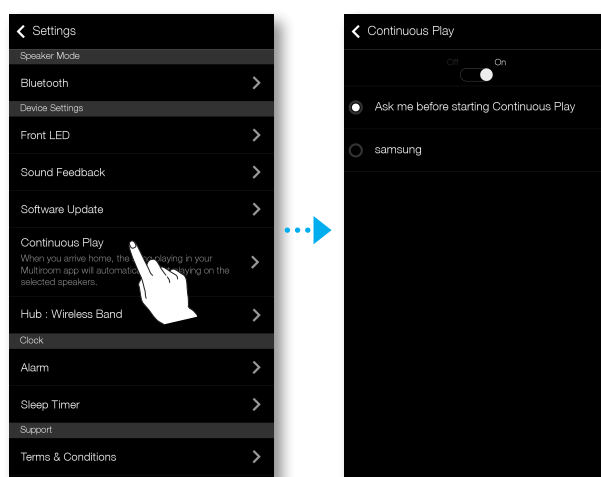
Update Now

You can update your speaker's software manually using **Update Now**.

- 1 Press .
- 2 Select **Software Update**.
- 3 Select **Update Now**.
- 4 **Update Now** searches for a current software update. If an update is available, it will download and install the update on your speaker. If you already have the most current software on you speaker, **Update Now** displays "Latest version already installed."

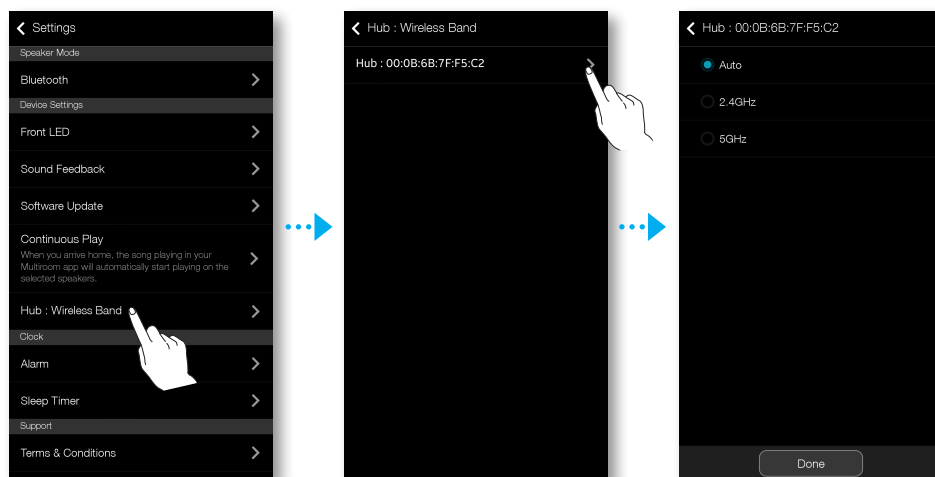
■ Continuous Play

Since this function allows you to switch the sound output from your mobile device into the product automatically, you can just enjoy the music seamlessly.



■ Hub : Wireless Band

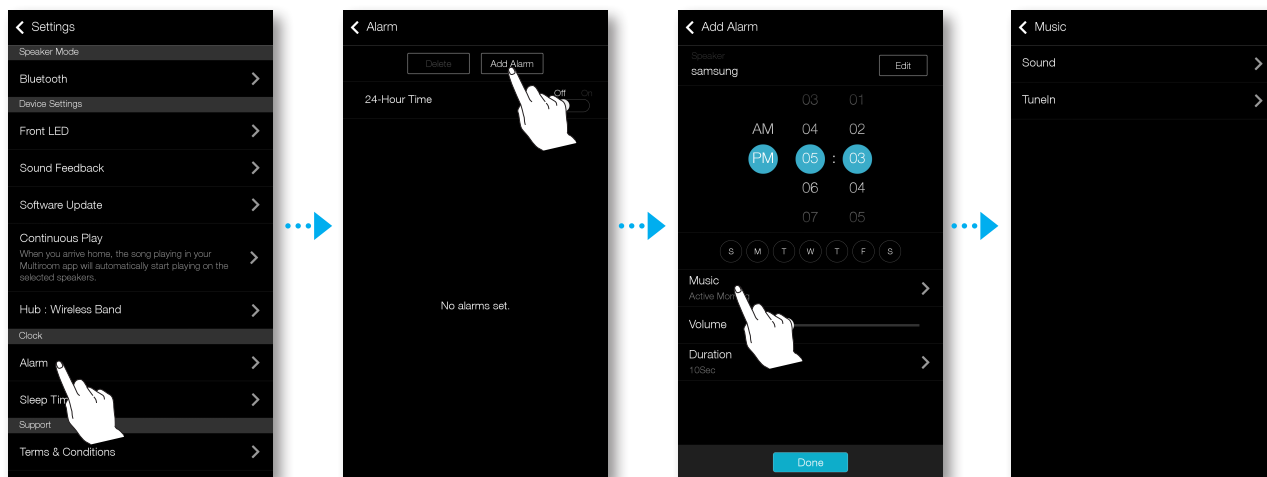
You can change the wireless band of your HUB depending on the wireless communication environments at home.



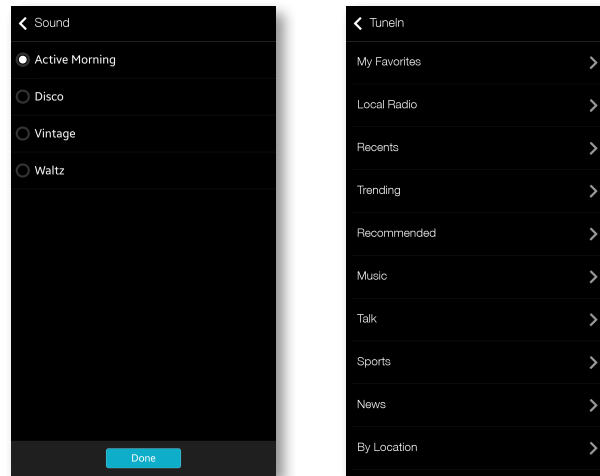
■ Clock

■ Alarm

- 1 Press **Alarm**, and then press **Add Alarm**.
- 2 Select the alarm date, time, day of the week, alarm volume and duration.



- 3 Press **Music**, select **Sound** or **TuneIn** to select your desired alarm sound.

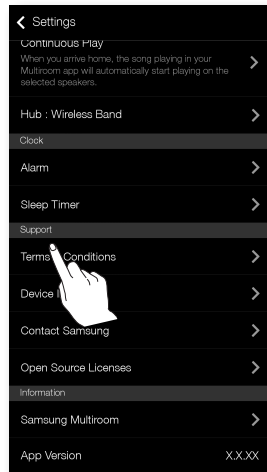


■ Sleep Timer

You can turn off the product by setting sleep time.

- 1 Press **Sleep Timer**, and then press **Off**.
- 2 Drag to **On**, set your desired time, and then select **Start**.





■ Support

- **Terms & Conditions**
Lets you check the **Terms & Conditions**.
- **Device ID**
Lets you check the **Device ID**.
- **Contact Samsung**
Provides a link to the Samsung website.
- **Open Source Licenses**
Lets you view the **Open Source Licenses**.


■ Information

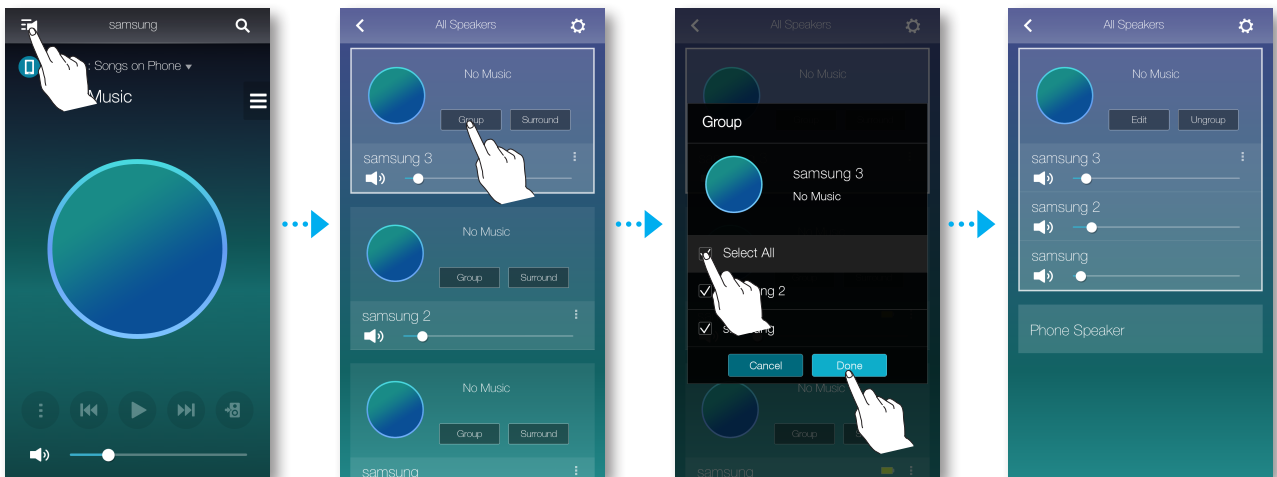
- **Samsung Multiroom**
Allows you to check the software version number of the product.
- **App Version**
Allows you to check the Samsung Multiroom app version.

Connecting multiples products

Setting Groups

You can group multiple speakers into one group that plays the same music. Grouping is available only when multiple speakers are connected to the same network.

- 1 Press  to go to the list of all speakers.
- 2 Press **Group**.
- 3 Select other products to add into the group, and then press **Done**.

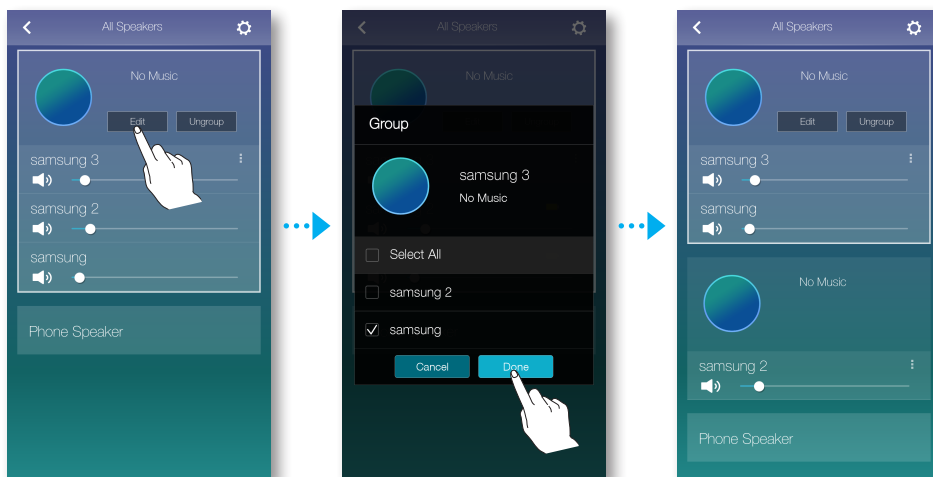


NOTE

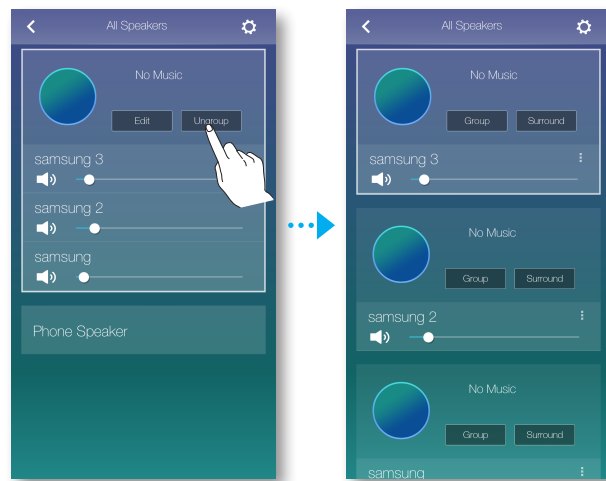
- ✓ Group playback is not available for Bluetooth and TV SoundConnect connections.

■ Editing group

- 1 Press **Edit**.
- 2 Select the speaker to edit and press **Done**.




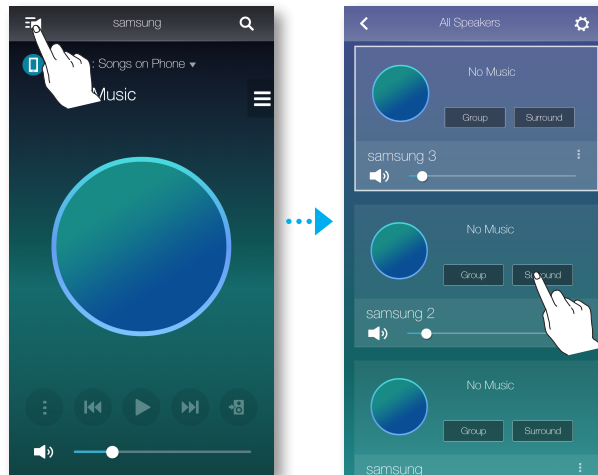
- **Ungrouping**
Press **Ungroup**.



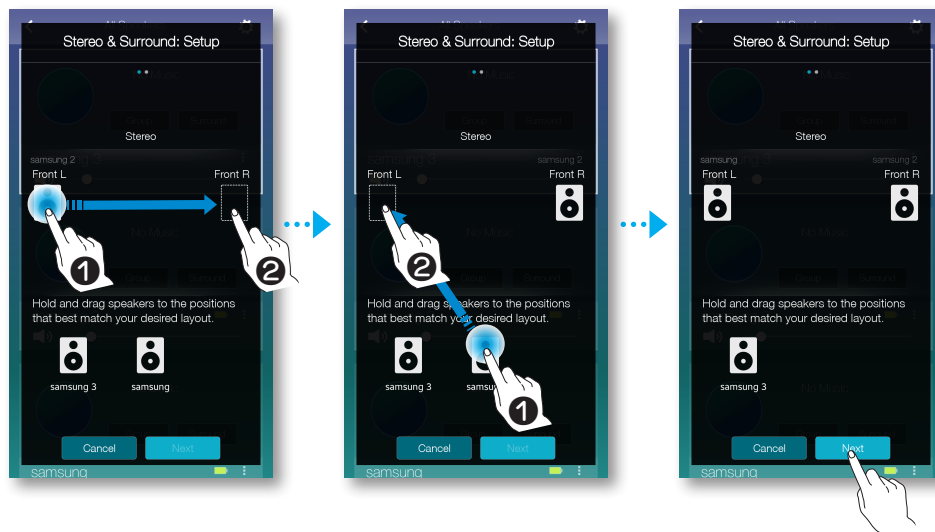
Setting the Surround Sound Mode

You can configure multiple products for surround sound effect.

- 1 Press  to go to the list of all products.
- 2 Press **Surround**.



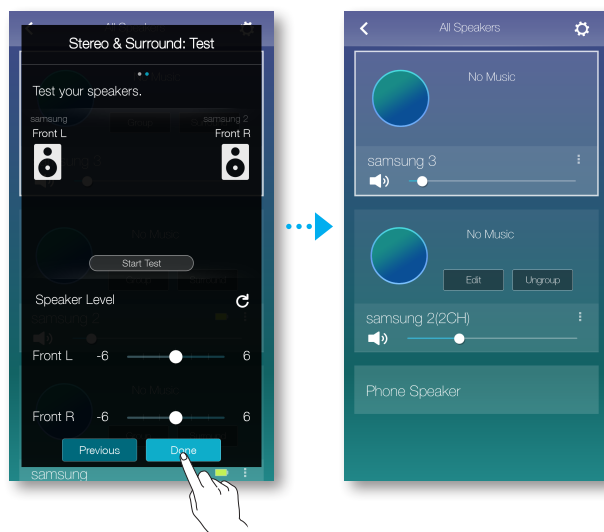
- 3 Press and hold a product, and drag it to the desired place and then select **Next**.



NOTE

- ✓ If just 2 speakers are connected, press **Surround** to configure surround sound system automatically.

- 4 Test products and adjust product volume, and then press **Done**.



NOTES

- ✓ The **Surround** Mode may be cancelled automatically if the network connection is unstable.
- ✓ When enabling the Surround Sound mode, it is recommended to set the same speakers you assign to **Front L** and **Front R**.
- ✓ You can configure 4.1 channel surround sound system with a soundbar and 2 speakers.
- ✓ You cannot configure **Surround** sound system with a soundbar and one speaker.

Using miscellaneous functions

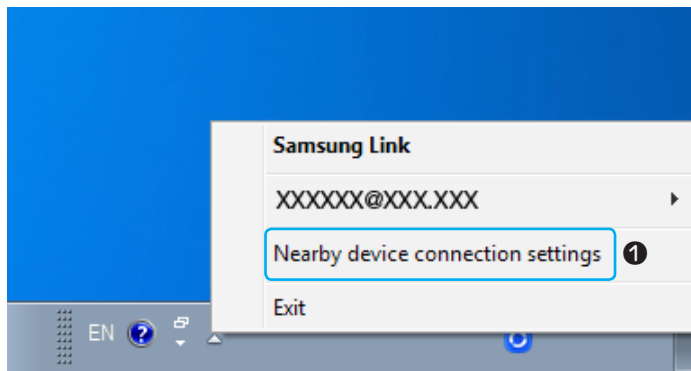
Playing Media Content Saved in a PC


Samsung Link

Install the **Samsung Link** program for easier playback of music stored in your PC through speaker.

Visit <http://link.samsung.com> and download the **Samsung Link** application and finish installing it.

- 1 Visit <http://link.samsung.com> and login with your Samsung account.
Follow the instructions shown to install the program.
- 2 Select the folder to be shared.
 - 1) Move the mouse pointer over the **Samsung Link** icon from the icons tray, right click on it and select "❶".



- 2) On the screen displayed, you can add or delete shared folders.
After adding or changing contents of shared folders, make sure to press the  button.
- 3 Select the Devices from the **Samsung Multiroom** app to select PC. Shared PC folders and music files will be displayed. (For further details, refer to pages 42~43.) [Click here.](#)



NOTES

- ✓ Note that the PC containing the shared folders and your speaker must be connected to the same wireless router.
- ✓ Samsung Link software should have been installed on the computer. The mobile device should support Samsung Link. For more information, visit Samsung's content and service portal at <http://link.samsung.com>.
- ✓ You may experience compatibility issues when attempting to play media files via a third-party DLNA server.
- ✓ However, the content shared by a computer device may not play depending on the encoding type and file format of the content. In addition, some functions may not be available.
- ✓ The media content may not smoothly play depending on the network status. If this is the case, use a USB storage device.

■ Wireless Audio - Multiroom for Desktop

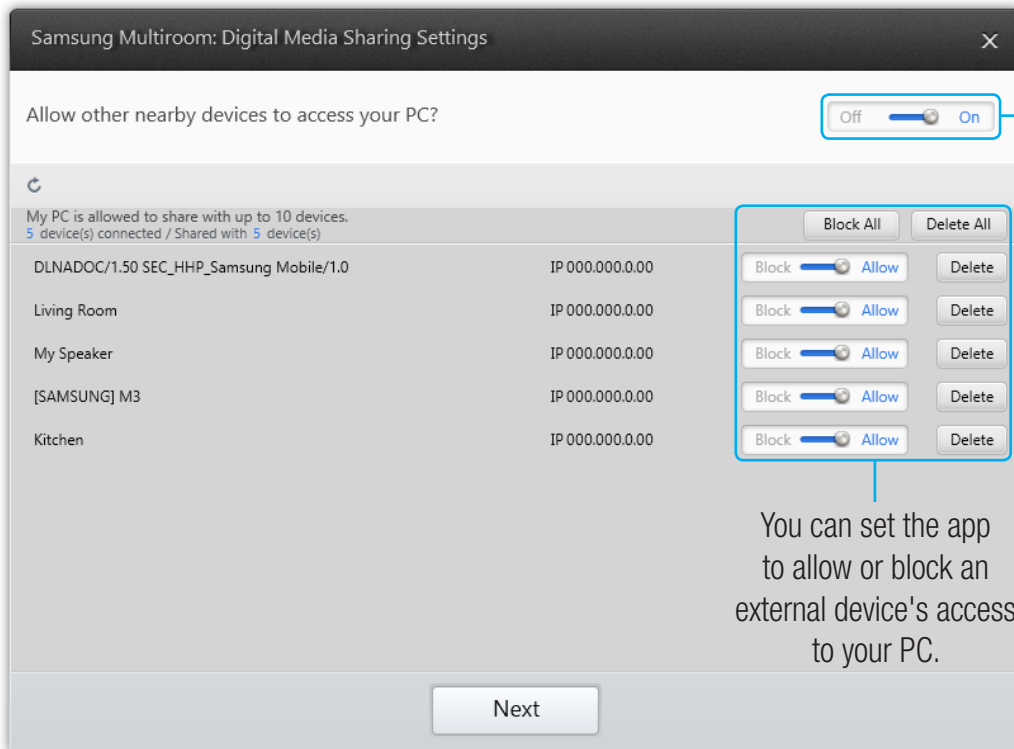
To play iTunes system and shared PC music files through product, install the **Wireless Audio - Multiroom for Desktop** program.

Visit www.samsung.com to download the **Wireless Audio - Multiroom for Desktop** program and install it.

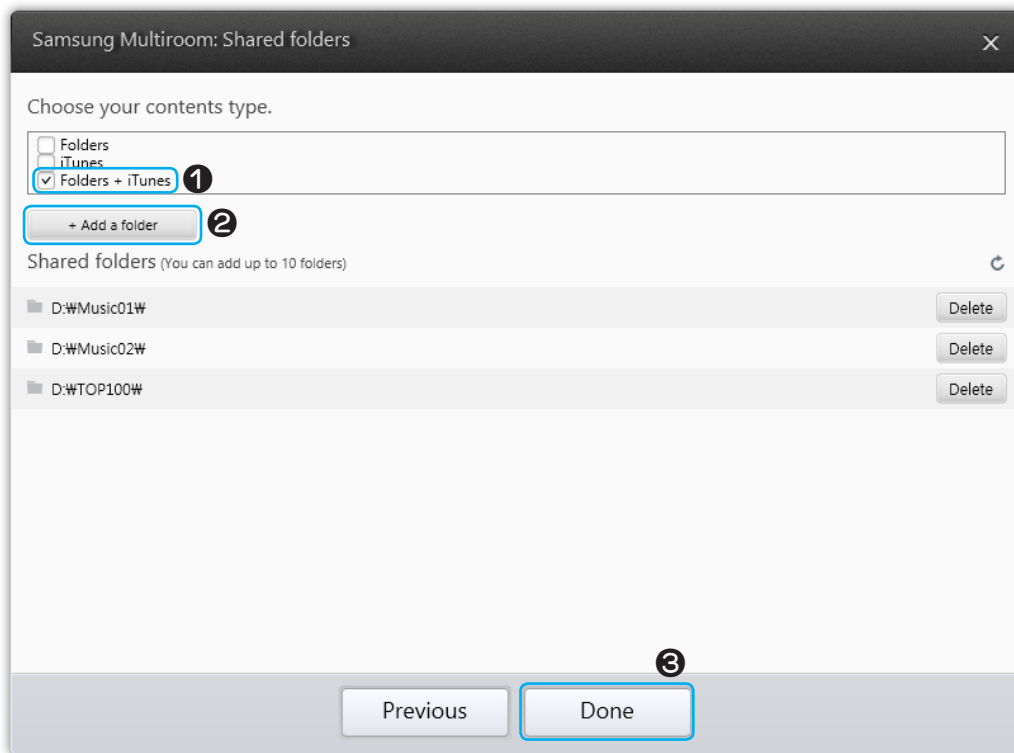


NOTES

- ✓ Note that the PC containing the shared folders and your product must be connected to the same wireless router.
 - ✓ If the connected Windows PC or the Mac switches to off-display mode, power saving or hibernation mode, the App will stop.
 - ✓ If the firewall of the Windows computer is activated, the App may not work. In such a case, deactivate the firewall of Windows or other vaccine firewall.
 - ✓ The *.pkg file is for Mac while *.msi is for Windows installation. Download the appropriate file for your computer and install it.
 - ✓ Supported OS: Windows 7 or higher, Mac OS X 10.7 or later.
- 1 Double click the icon created on the PC's desktop.
 - 2 Select **Next** to set the shared folders.





- 3 Select the content type and add the selected folder to the shared folders list. After sharing folders, make sure to press the **Done** button.



- 4 On your Smart device, select the **Samsung Multiroom** app.
- 5 Select desired PC on the **Samsung Multiroom** app, and shared folders and files stored in the PC will be displayed. (For further details, refer to pages 42~43) [Click here.](#)




NOTE

- ✓ After adding or changing contents of shared folders, make sure to press the  button. If you don't press the  button, the files shared by a computer device may not displayed in the **Samsung Multiroom** app.

Appendix

Troubleshooting

Before requesting service, please check the following.

Symptom	Check	Remedy
The unit will not turn on.	<ul style="list-style-type: none"> Is the power cord plugged into the outlet? (WAM750, WAM751, WAM350, WAM351 Only) Is the power adapter plugged into the outlet? (WAM550, WAM551 Only) 	<ul style="list-style-type: none"> Connect the power cord to the outlet. (WAM750, WAM751, WAM350, WAM351 Only) Connect the power adapter to the outlet. (WAM550, WAM551 Only)
Hub and product is not paired.	<ul style="list-style-type: none"> When the Hub is plugged in, do the HUB's front indicators show it's operating properly? Is the LAN cable connected to the wireless router and the HUB properly? Make sure the product's front LED turns from red to blue. 	<ul style="list-style-type: none"> Reset the HUB. (Refer to the HUB's user manual for details.) Unplug the HUB and plug it in again. Check whether the pairing indicator on the front of the HUB is blinking or not. Reset the product (see page 15). Click here. Unplug the product and plug it in again. Check whether the LED indicator on the front of the product is blinking or not.
A function does not work when the button is pressed.	<ul style="list-style-type: none"> Is there static electricity in the air? 	<ul style="list-style-type: none"> Disconnect the power plug and connect it again.
Sound is not produced.	<ul style="list-style-type: none"> Is the volume set to minimum? 	<ul style="list-style-type: none"> Connect the product correctly. Adjust the volume.
The TV SoundConnect (TV pairing) failed.	<ul style="list-style-type: none"> Does your TV support TV SoundConnect? Is your TV firmware the latest version? Does an error occur when connecting? 	<ul style="list-style-type: none"> TV SoundConnect is supported by some Samsung TVs released after 2012. Check your TV to see if it supports TV SoundConnect. Confirm TV SoundConnect is set to On in your TV's menu. Update your TV with the latest firmware. Contact the Samsung Call Centre. Press and hold the  TV SoundConnect button for more than 5 seconds to reset TV SoundConnect and connect a new TV.

Symptom	Check	Remedy
HUB doesn't work properly	<ul style="list-style-type: none"> Is the HUB plugged in? Is the LAN cable connected to the wireless router and the HUB properly? When the Hub is plugged in, do the HUB's front indicators show it's operating properly? 	<ul style="list-style-type: none"> Plug in the HUB. Connect the LAN cable to the ETHERNET SWITCH on the back of the HUB and to your wireless router. Reset the HUB. (Refer to the HUB's user manual for details.) If you experience troubles with connecting the HUB and product, try relocating the product so that the product is closer to the wireless router or HUB.
Product doesn't work properly	<ul style="list-style-type: none"> Is the product plugged in? Does the product's front LED indicator remain red 5 minutes after turning on? 	<ul style="list-style-type: none"> Plug in the product. Check whether the Wi-Fi router you're using had been certified for Wi-Fi. Unplug the product, plug it back in, and then reconnect it to the router. Reset the product (see page 15). Click here. If used with a HUB <ul style="list-style-type: none"> Make sure the smart device and the HUB are connected to the same Wi-Fi network. Make sure the HUB's indicator LED's show that it is working correctly. (See page 24, item 3.) Click here. If the problem persists, reset the HUB. (Refer to the HUB's user manual for details.) Unplug, then plug in the HUB. Then, unplug and plug in the product. If you experience troubles with connecting the HUB and product, try relocating the product so that the product is closer to the wireless router or HUB.

Symptom	Check	Remedy
I cannot group products.	<ul style="list-style-type: none"> Is the product connected to the network via Wi-Fi? 	<ul style="list-style-type: none"> If the product is connected to the network via Bluetooth, NFC tagging (WAM750, WAM751, WAM550, WAM551 Only - Android), TV SoundConnect, or AUX IN (WAM750, WAM751 Only), you cannot use the group products function.
App doesn't work properly	<ul style="list-style-type: none"> Does an error occur when accessing the app? 	<ul style="list-style-type: none"> Make sure your smart device is compatible with the app. (See page 76) Click here. Make sure the app is the latest version. Make sure the product's front LED turns from red to blue. If used with a HUB <ul style="list-style-type: none"> Make sure the HUB and the smart device are connected to same router. Make sure the HUB's indicator LED's show that it is working correctly. (See page 24, item 3.) Click here. If you experience troubles with connecting the HUB and product, try relocating the product so that the product is closer to the wireless router or HUB.



NOTE

- ✓ If the problem persists, consult the service centre for troubleshooting.

Open Source License Notice

- For further information on Open Sources used in this product, please visit the website: <http://opensource.samsung.com>

Licences

- The Spotify Software is subject to third party licenses found here : www.spotify.com/connect/third-party-licenses.
- For more information about Spotify Connect, please visit www.spotify.com/connect



Specifications

- WAM750, WAM751

General	Weight		3.9 Kg
	Dimensions		402 (W) X 194 (D) X 137 (H) mm
	Operating Temperature Range		+5°C to +35°C
	Operating Humidity Range		10 % to 75 %
Amplifier	Input sensitivity / Impedance		450mV / KOHM (AUX)
	S/N ratio (analog input)		65dB
	Separation(1KHz)		65dB
Network	Ethernet		100BASE - TX Terminal
	Wireless LAN		Built-in
	Security		WEP (OPEN)
			WPA-PSK (TKIP)
			WPA2-PSK (AES)
	WPS(PBC/PIN)		Supported
	Overall Standby Power consumption (W) (All network ports is "on" condition)		6.7
	Wi-Fi/Ethernet	Port deactivation method	Press WPS button on the product for 30 seconds to turn Wi-Fi/Ethernet On / Off.
	Bluetooth	Port deactivation method	Press SPK ADD button on the product for 30 seconds to turn Bluetooth On / Off.

- WAM550, WAM551

General	Weight		2.3 Kg
	Dimensions		343 (W) X 168 (D) X 113.5 (H) mm
	Operating Temperature Range		+5°C to +35°C
	Operating Humidity Range		10 % to 75 %
Network	Ethernet		100BASE - TX Terminal
	Wireless LAN		Built-in
	Security		WEP (OPEN)
			WPA-PSK (TKIP)
			WPA2-PSK (AES)
	WPS(PBC/PIN)		Supported
	Overall Standby Power consumption (W) (All network ports is "on" condition)		6.1
	Wi-Fi/Ethernet	Port deactivation method	Press WPS button on the product for 30 seconds to turn Wi-Fi/Ethernet On / Off.
	Bluetooth	Port deactivation method	Press SPK ADD button on the product for 30 seconds to turn Bluetooth On / Off.

- WAM350, WAM351



General	Weight		1.9 Kg
	Dimensions		250 (W) X 145 (D) X 113.5 (H) mm
	Operating Temperature Range		+5°C to +35°C
	Operating Humidity Range		10 % to 75 %
Network	Ethernet		100BASE - TX Terminal
	Wireless LAN		Built-in
	Security		WEP (OPEN)
			WPA-PSK (TKIP)
			WPA2-PSK (AES)
	WPS(PBC/PIN)		Supported
	Overall Standby Power consumption (W) (All network ports is "on" condition)		6.6
	Wi-Fi/Ethernet	Port deactivation method	Press WPS button on the product for 30 seconds to turn Wi-Fi/Ethernet On / Off.
	Bluetooth	Port deactivation method	Press SPK ADD button on the product for 30 seconds to turn Bluetooth On / Off.



NOTE

- ✓ The product will restart automatically if you turn on/off Wi-Fi/Ethernet.
 - Network speeds equal to or below 10Mbps are not supported.
(If using LAN cable, you'd better to use STP type.
 - WAM550, WAM551, WAM350, WAM351 Only)
 - Design and specifications are subject to change without prior notice.
 - For the power supply and power consumption, refer to the label attached to the product.
 - Weight and dimensions are approximate.
 - This user manual is based on the product using the Android or iOS operating system.
 - App screen is based on Android operating system and it may change after you upgrade the software version.
 - For further details on using the product, visit www.samsung.com.
- An administration fee may be charged if either
 - (a) an engineer is called out at your request and there is no defect in the product (i.e. where you have failed to read this user manual).
 - (b) you bring the unit to a repair center and there is no defect in the product (i.e. where you have failed to read this user manual).
 - The amount of such administration charge will be advised to you before any work or home visit is carried out.

Regulatory Compliance Statements

	<div style="border: 1px solid black; padding: 5px; text-align: center;"> CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN </div>	
<p>The lightning flash and arrowhead within the triangle is a warning sign alerting you to dangerous voltage inside the product.</p>	<p>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p>	<p>The explanation point within the triangle is a warning sign alerting you to important instructions accompanying the product.</p>

Warning

- To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.
- 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.

CAUTION

TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

- This apparatus shall always be connected to a AC outlet with a protective grounding connection.
- To disconnect the apparatus from the mains, the plug must be pulled out from the mains socket, therefore the mains plug shall be readily operable.

CAUTION

- Do not expose this apparatus to dripping or splashing. Do not put an object filled with liquid, such as a vase, 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.


■ Wiring the Main Power Supply Plug (UK Only)

IMPORTANT NOTICE

The mains lead on this equipment is supplied with a moulded plug incorporating a fuse. The value of the fuse is indicated on the pin face of the plug and if it requires replacing, a fuse approved to BS1362 of the same rating must be used. Never use the plug with the fuse cover removed. If the cover is detachable and a replacement is required, it must be of the same colour as the fuse fitted in the plug. Replacement covers are available from your dealer. If the fitted plug is not suitable for the power points in your house or the cable is not long enough to reach a power point, you should obtain a suitable safety approved extension lead or consult your dealer for assistance. However, if there is no alternative to cutting off the plug, remove the fuse and then safely dispose of the plug. Do not connect the plug to a mains socket as there is a risk of shock hazard from the bared flexible cord. Never attempt to insert bare wires directly into a mains socket. A plug and fuse must be used at all times.

IMPORTANT NOTICE

The wires in the mains lead are coloured in accordance with the following code:– BLUE = NEUTRAL BROWN = LIVE As these colours may not correspond to the coloured markings identifying the terminals in your plug, proceed as follows:– The wire coloured BLUE must be connected to the terminal marked with the letter N or coloured BLUE or BLACK. The wire coloured BROWN must be connected to the terminal marked with the letter L or coloured BROWN or RED.

WARNING : DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E OR BY THE EARTH SYMBOL , OR COLOURED GREEN OR GREEN AND YELLOW.

■ 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 a 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 AV receivers) 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 it exits 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 when the 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.



Safety precautions

Power Supply Precautions

- Do not overload outlets or extension cords.
 - This may result in abnormal heat or fire.
- Do not plug in or unplug the power cord with wet hands.
- Do not place the product near heating equipment.
- To clean the power plug blades, remove the plug from the wall outlet and wipe the blades with a dry cloth only.
- Do not bend the power cord or pull it forcefully.
- Do not put heavy objects on the power cord.
- Do not plug the power cord into a loose or damaged outlet.
- Fully insert the power cord's plug into the the wall outlet so that the plug is firmly attached to the outlet.
 - If the connection is unstable, there is a risk of fire.

■ Installation Precautions

- Do not install the product near equipment or objects that generate heat or produce fire (candles, mosquito coils, heaters, radiators, etc.). Do not install in direct sunlight.
- When moving the product, turn off the power and disconnect all cords (include the power cord) from the unit.
 - A damaged cord may cause a fire and poses a risk of electric shock.
- Installing the product in environments with high heat or humidity, dust, or extreme cold, can lead to quality problems or cause the product to malfunction. Before you install the product in an environment that is outside the norm, please contact a Samsung service centre for additional information.
- When placing the product on a shelf, cabinet, or desk, make sure the top panel faces upwards.
- Do not place the product on an unstable surface (e.g. a shaky shelf, a tilted desk, etc.).
 - Dropping the product can cause it to malfunction and poses a risk of injury. Severe vibration or impact can also cause the product to malfunction and lead to a fire hazard.
- Install your product with enough space around it for ventilation.
 - Leave at least 4 inches (10cm) at the rear of the product and more than 2 inches (5cm) on each side of the product.
- Keep the plastic packing materials out of reach of your children.
 - Children playing with the plastic packing materials run the risk of suffocation.

■ Usage Precautions

- Using for an extended time at high volume may cause serious damage to your hearing.
 - If you are exposed to sound louder than 85db for an extended time, you may adversely affect your hearing. The louder the sound is, the more seriously damaged your hearing may become. Note that an ordinary conversation is between 50 to 60 db and road noise is approximately 80 db.
- This product contains dangerous high voltage. Do not attempt to disassemble, repair, or modify it yourself.
 - Contact a Samsung service centre when your product is in need of repair.
- Do not place any container that contains liquid on the product (e.g. a vase, beverages, cosmetics, chemicals, etc.). Do not allow any metal objects (e.g. coins, hair clips, etc.) or flammable material (e.g. paper, matches, etc.) to enter the product (through the air vents, I/O ports, etc.).
 - If any harmful material or liquid enters the product, turn off the product immediately, unplug the power cord, and then contact a Samsung service centre.

- Do not drop the product. In case of a mechanical breakdown, disconnect the power cord and contact a Samsung service centre.
 - There is a risk of fire or electric shock.
- Do not hold or pull the product by the power cord or the signal cable.
 - A damaged cable can cause the product to malfunction, cause a fire, and poses a risk of electric shock.
- Do not use or keep flammable materials near the product.
- If the product emits an abnormal sound or a burnt smell or smokes, unplug the power-cord immediately and contact a Samsung service centre.
- If you smell gas, ventilate the room immediately. Do not touch the power plug of the product. Do not turn the product off or on.
- Do not strike or subject the product to a sudden shock. Do not pierce the product with a sharp object.
- This product can be moved and placed indoors.
- This product is not waterproof or dustproof.
- Be careful when moving the product to avoid dropping it and possibly damaging it.

Cleaning Precautions

- Never use alcohol, solvents, waxes, benzene, thinners, air freshener, or lubricants to clean the product, or spray insecticide on the product.
 - Using any of these materials can discolor the exterior coating or cause it to split or peel off, or remove the labelling on the product.
- To clean the product, unplug the power cord, and then wipe the product with a clean, dry, soft cloth (Microfiber, cotton).
 - Avoid leaving dust on the product. Dust can scratch its the surface.

Additional Information

About NFC (WAM750, WAM751, WAM550, WAM551 Only) - Android

- NFC tagging to establish a Bluetooth connection will not work while the product is being powered on and off.
- NFC tagging to establish a Bluetooth connection will not work while the battery indicator on the Bluetooth device is blinking.

About the Network Connection

- Depending on the wireless router used, some network operations may perform differently.
- For detailed information on networking with a wireless router or modem, refer to the router's or modem's documentation.
- Select one wireless channel that is not used currently. If the selected channel is used by another communication device nearby, radio interference may result in communication failure.
- In compliance with the newest Wi-Fi certification specifications, the HUB does not support WEP, TKIP, or TKIP-AES (WPA2 Mixed) security encryption in networks running in the 802.11n mode.
- By its nature, wireless LAN may experience radio interference depending on the environmental conditions (such as wireless router performance, distance, obstruction, interference with other wireless devices, etc.)
- WEP encryption does not work with WPS (PBC) / WPS (PIN).

Compatible devices

- Mobile : Android 2.3.3 (Gingerbread) or above, iOS (6.0) or above



NOTES

- ✓ Some devices may not be compatible with the product.
- ✓ Note that a product of an older version may not be supported.

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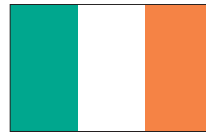
- Hereby, Samsung Electronics, declares that this equipment is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.



The original Declaration of Conformity may be found at <http://www.samsung.com>, go to Support > Search Product Support and enter the model name. This equipment may be operated in all EU countries. This equipment may only be used indoors.



UNITED KINGDOM



EIRE

This Samsung product is warranted for the period of twelve (12) months from the original date of purchase, against defective materials and workmanship. In the event that warranty service is required, you should return the product to the retailer from whom it was purchased. However, Samsung Authorised Dealers and Authorised Service Centres in other EC Countries will comply with the warranty on the terms issued to purchasers in the country concerned. In case of difficulty, details of our Authorised Service Centres are available from:

Samsung Electronics U.K. Ltd
Samsung Customer Support Centre
Selectapost 38, Sheffield, S97 3FJ
United Kingdom

United Kingdom
Tel : 0330 SAMSUNG (7267864)
www.samsung.com/uk/support

EIRE
Tel : 0818 717100
www.samsung.com/ie/support

■ WARRANTY CONDITIONS

1. The warranty is only valid if, when warranty service is required, the warranty card is fully and properly completed and is presented with the original invoice or sales slip or confirmation, and the serial number on the product has not been defaced.
2. Samsung's obligations are limited to the repair or, at its discretion, replacement of the product or the defective part.
3. Warranty repairs must be carried out by Authorised Samsung Dealers or Authorised Service Centres. No re-imbursement will be made for repairs carried out by non Samsung Dealers and, any such repair work and damage to the products caused by such repair work will not be covered by this warranty.
4. This product is not considered to be defective in materials nor workmanship by reason that it requires adaptation in order to conform to national or local technical or safety standards in force in any Country other than the one for which the product was originally designed and manufactured. This warranty will not cover, and no re-imbursement will be made for such adaptation nor any damage which may result.
5. This warranty covers none of the following:
 - a) Periodic check ups, maintenance and repair or replacement of parts due to normal wear and tear.
 - b) Cost relating to transport, removal or installation of the product.
 - c) Misuse, including the failure to use this product for its normal purposes or incorrect installation.
 - d) Damage caused by Lightning, Water, Fire, Acts of God, War, Public Disturbances, incorrect mains voltage, improper ventilation or any other cause beyond the control of Samsung.
6. This warranty is valid for any person who legally acquired possession of the product during the warranty period.
7. The consumers statutory rights in any applicable national legislation whether against the retailer arising from the purchase contract or otherwise are not affected by this warranty. Unless there is national legislation to the contrary, the rights under this warranty are the consumers sole rights and Samsung, its subsidiaries and distributors shall not be liable for indirect or consequential loss or any damage to records, compact discs, videos or audio taper or any other related equipment or material.

SAMSUNG ELECTRONICS (U.K.) LTD.

Contact SAMSUNG WORLD WIDE

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care centre.

Country		Contact Centre ☎	Web Site
North America	U.S.A	1-800-SAMSUNG (726-7864)	www.samsung.com/us/support
	CANADA	1-800-SAMSUNG (726-7864)	www.samsung.com/ca/support (English) www.samsung.com/ca_fr/support (French)
Latin America	MEXICO	01-800-SAMSUNG (726-7864)	www.samsung.com/mx/support
	BRAZIL	0800-124-421 (Demais cidades e regiões) 4004-0000 (Capitais e grandes centros)	www.samsung.com/br/support
	COSTA RICA	0-800-507-7267 00-800-1-SAMSUNG (726-7864)	www.samsung.com/latin/support (Spanish) www.samsung.com/latin_en/support (English)
	DOMINICAN REPUBLIC	1-800-751-2676	www.samsung.com/latin/support (Spanish) www.samsung.com/latin_en/support (English)
	ECUADOR	1-800-10-7267 1-800-SAMSUNG (72-6786)	www.samsung.com/latin/support (Spanish) www.samsung.com/latin_en/support (English)
	EL SALVADOR	800-6225 800-0726-7864	www.samsung.com/latin/support (Spanish) www.samsung.com/latin_en/support (English)
	GUATEMALA	1-800-299-0013 1-800-299-0033	www.samsung.com/latin/support (Spanish) www.samsung.com/latin_en/support (English)
	HONDURAS	800-2791-9267 800-2791-9111	www.samsung.com/latin/support (Spanish) www.samsung.com/latin_en/support (English)
	JAMAICA	1-800-234-7267 1-800-SAMSUNG (726-7864)	www.samsung.com/latin_en/support (English)
	NICARAGUA	001-800-5077267	www.samsung.com/latin/support (Spanish) www.samsung.com/latin_en/support (English)
	PANAMA	800-7267 800-0101	www.samsung.com/latin/support (Spanish) www.samsung.com/latin_en/support (English)
	PUERTO RICO	1-800-682-3180	www.samsung.com/latin/support (Spanish) www.samsung.com/latin_en/support (English)
	TRINIDAD & TOBAGO	1-800-SAMSUNG(726-7864)	www.samsung.com/latin/support (Spanish) www.samsung.com/latin_en/support (English)
	VENEZUELA	0-800-SAMSUNG (726-7864)	www.samsung.com/ve/support
	COLOMBIA	Bogotá 600 12 72 Gratis desde cualquier parte del país 01 8000 112 112	www.samsung.com/co/support
	CHILE	800-SAMSUNG(726-7864)	www.samsung.com/cl/support
	BOLIVIA	800-10-7260	www.samsung.com/cl/support
	PERU	0800-777-08	www.samsung.com/pe/support
	ARGENTINE	0800-555-SAMSUNG (0800-555-7267)	www.samsung.com/ar/support
	URUGUAY	000-405-437-33	www.samsung.com/latin/support (Spanish) www.samsung.com/latin_en/support (English)
	PARAGUAY	009-800-542-0001	www.samsung.com/latin/support (Spanish) www.samsung.com/latin_en/support (English)
Europe	UK	0330 SAMSUNG (7267864)	www.samsung.com/uk/support
	EIRE	0818 717100	www.samsung.com/ie/support
	GERMANY	0180 6 SAMSUNG bzw. 0180 6 7267864* (*0,20 €/Anruf aus dem dt. Festnetz, aus dem Mobil-funk max. 0,60 €/Anruf)	www.samsung.com/de/support
	FRANCE	01 48 63 00 00	www.samsung.com/fr/support
	ITALIA	800-SAMSUNG (800.7267864)	www.samsung.com/it/support
	SPAIN	0034902172678	www.samsung.com/es/support
	PORTUGAL	808 20 7267	www.samsung.com/pt/support

Country		Contact Centre ☎	Web Site
Europe	LUXEMBURG	261 03 710	www.samsung.com/support
	NETHERLANDS	0900-SAMSUNG (0900-7267864) (€ 0,10/Min)	www.samsung.com/nl/support
	BELGIUM	02-201-24-18	www.samsung.com/be/support (Dutch) www.samsung.com/be_fr/support (French)
	NORWAY	815 56480	www.samsung.com/no/support
	DENMARK	70 70 19 70	www.samsung.com/dk/support
	FINLAND	030-6227 515	www.samsung.com/fi/support
	SWEDEN	0771 726 7864 (0771-SAMSUNG)	www.samsung.com/se/support
	POLAND	801-172-678* lub +48 22 607-93-33 * * (koszt połączenia według taryfy operatora)	www.samsung.com/pl/support
	HUNGARY	0680SAMSUNG (0680-726-786) 0680PREMIUM (0680-773-648)	www.samsung.com/hu/support
	SLOVAKIA	0800 - SAMSUNG (0800-726 786)	www.samsung.com/sk/support
	AUSTRIA	0800-SAMSUNG (0800-7267864) [Only for Premium HA] 0800-366661 [Only for Dealers] 0810-112233	www.samsung.com/at/support
	SWITZERLAND	0800 726 78 64 (0800-SAMSUNG)	www.samsung.com/ch/support (German) www.samsung.com/ch_fr/support (French)
	CZECH	800 - SAMSUNG (800-726786)	www.samsung.com/cz/support
	CROATIA	072 726 786	www.samsung.com/hr/support
	BOSNIA	055 233 999	www.samsung.com/support
	MONTENEGRO	020 405 888	www.samsung.com/support
	SLOVENIA	080 697 267 (brezplačna številka) 090 726 786 (0,39 EUR/min) klicni center vam je na voljo od ponedeljka do petka od 9. do 18. ure.	www.samsung.com/si
	SERBIA	011 321 6899	www.samsung.com/rs/support
	BULGARIA	800 111 31, Безплатна телефонна линия	www.samsung.com/bg/support
	ROMANIA	08008 726 78 64 (08008 SAMSUNG) Apel GRATUIT	www.samsung.com/ro/support
CIS	CYPRUS	8009 4000 only from landline, toll free	
	GREECE	80111-SAMSUNG (80111 726 7864) only from land line	www.samsung.com/gr/support
	LITHUANIA	8-800-77777	www.samsung.com/lt/support
	LATVIA	8000-7267	www.samsung.com/lv/support
	ESTONIA	800-7267	www.samsung.com/ee/support
	RUSSIA	8-800-555-55-55 (VIP care 8-800-555-55-88)	www.samsung.com/ru/support
	BELARUS	810-800-500-55-500	www.samsung.com/support
	GEORGIA	0-800-555-555	www.samsung.com/support
	ARMENIA	0-800-05-555	www.samsung.com/support
	AZERBAIJAN	0-88-555-55-55	www.samsung.com/support
	KAZAKHSTAN	8-10-800-500-55-500 (GSM: 7799, VIP care 7700)	www.samsung.com/support
	UZBEKISTAN	8-10-800-500-55-500 (GSM: 7799)	www.samsung.com/support
	KYRGYZSTAN	00-800-500-55-500	www.samsung.com/kz_ru/support
China	TAJIKISTAN	8-10-800-500-55-500	www.samsung.com/support
	MONGOLIA	+7-495-363-17-00	www.samsung.com/support
	UKRAINE	0-800-502-000	www.samsung.com/ua/support (Ukrainian) www.samsung.com/ua_ru/support (Russian)
	MOLDOVA	0-800-614-40	www.samsung.com/support
China	CHINA	400-810-5858	www.samsung.com/cn/support
	HONG KONG	(852) 3698 4698	www.samsung.com/hk/support (Chinese) www.samsung.com/hk_en/support (English)
	MACAU	0800 333	www.samsung.com/support

Country		Contact Centre ☎	Web Site
S.E.A	SINGAPORE	1800-SAMSUNG(726-7864)	www.samsung.com/sg/support
	AUSTRALIA	1300 362 603	www.samsung.com/au/support
	NEW ZEALAND	0800 726 786	www.samsung.com/nz/support
	VIETNAM	1800 588 889	www.samsung.com/vn/support
	THAILAND	0-2689-3232, 1800-29-3232	www.samsung.com/th/support
	MYANMAR	+95-01-2399-888	www.samsung.com/support
	MALAYSIA	1800-88-9999 603-77137477 (Overseas contact)	www.samsung.com/my/support
	INDONESIA	021-56997777 08001128888	www.samsung.com/id/support
	PHILIPPINES	1-800-10-7267864 [PLDT] 02-4222111 [Other landline]	www.samsung.com/ph/support
	TAIWAN	0800-329999	www.samsung.com/tw/support
	JAPAN	0120-363-905	www.samsung.com/jp/support
S.W.A	INDIA	1800 3000 8282 - Toll Free 1800 266 8282 - Toll Free	www.samsung.com/in/support
	BANGLADESH	09612300300	www.samsung.com/in/support
	SRI LANKA	94117540540	www.samsung.com/support
MENA	EGYPT	08000-7267864 16580	www.samsung.com/eg/support
	ALGERIA	021 36 11 00	www.samsung.com/n_africa/support
	IRAN	021-8255 [CE]	www.samsung.com/iran/support
	SAUDI ARABIA	8002474357	www.samsung.com/sa/support www.samsung.com/sa_en/support (English)
	PAKISTAN	0800-Samsung (72678)	www.samsung.com/pk/support
	TUNISIA	80-1000-12	www.samsung.com/n_africa/support
	U.A.E	800-SAMSUNG (800 - 726 7864)	www.samsung.com/ae/support (English) www.samsung.com/ae_ar/support (Arabic)
	OMAN	800-SAMSUNG (800 - 726 7864)	
	KUWAIT	183-CALL (183-2255)	
	BAHRAIN	8000-GSAM (8000-4726)	
	QATAR	800-CALL (800-2255)	www.samsung.com/tr/support
	TURKEY	444 77 11	
	JORDAN	0800-22273 06 5777444	www.samsung.com/Levant/support (English)
	SYRIA	18252273	www.samsung.com/Levant/support (English)
	MOROCCO	080 100 22 55	www.samsung.com/n_africa/support
Africa	SOUTH AFRICA	0860 SAMSUNG (726 7864)	www.samsung.com/support
	BOTSWANA	8007260000	
	NAMIBIA	08 197 267 864	
	ZAMBIA	0211 350370	
	MAURITIUS	23052574020	
	REUNION	262508869	
	MOZAMBIQUE	847267864 / 827267864	
	NIGERIA	0800-726-7864	www.samsung.com/africa_en/support
	Ghana	0800-10077 0302-200077	
	Cote D'Ivoire	8000 0077	www.samsung.com/africa_fr/support
	SENEGAL	800-00-0077	
	CAMEROON	7095-0077	www.samsung.com/support
	KENYA	0800 545 545	
	UGANDA	0800 300 300	
	TANZANIA	0800 755 755 / 0685 889 900	
	RWANDA	9999	
	BURUNDI	200	
	DRC	499999	
	SUDAN	1969	



Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.