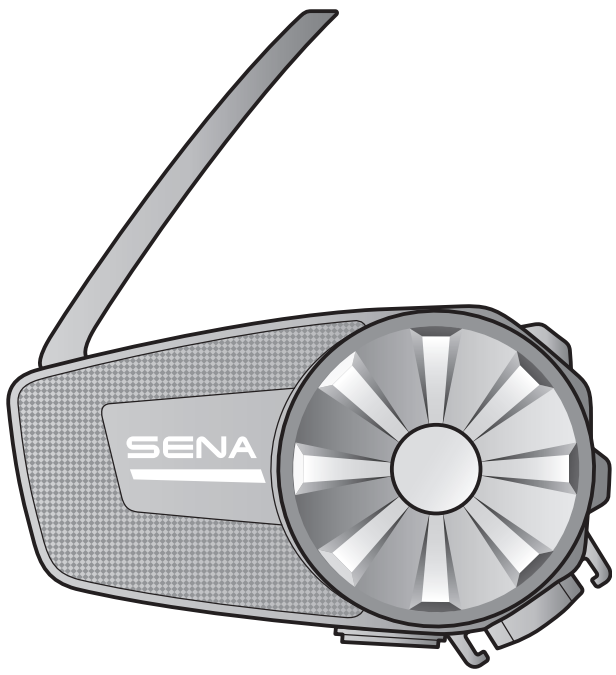
SENA



SPIDER ST1

MOTORCYCLE MESH COMMUNICATION SYSTEM

HD SPEAKERS

USER'S GUIDE

Version 2.5.0

ENGLISH

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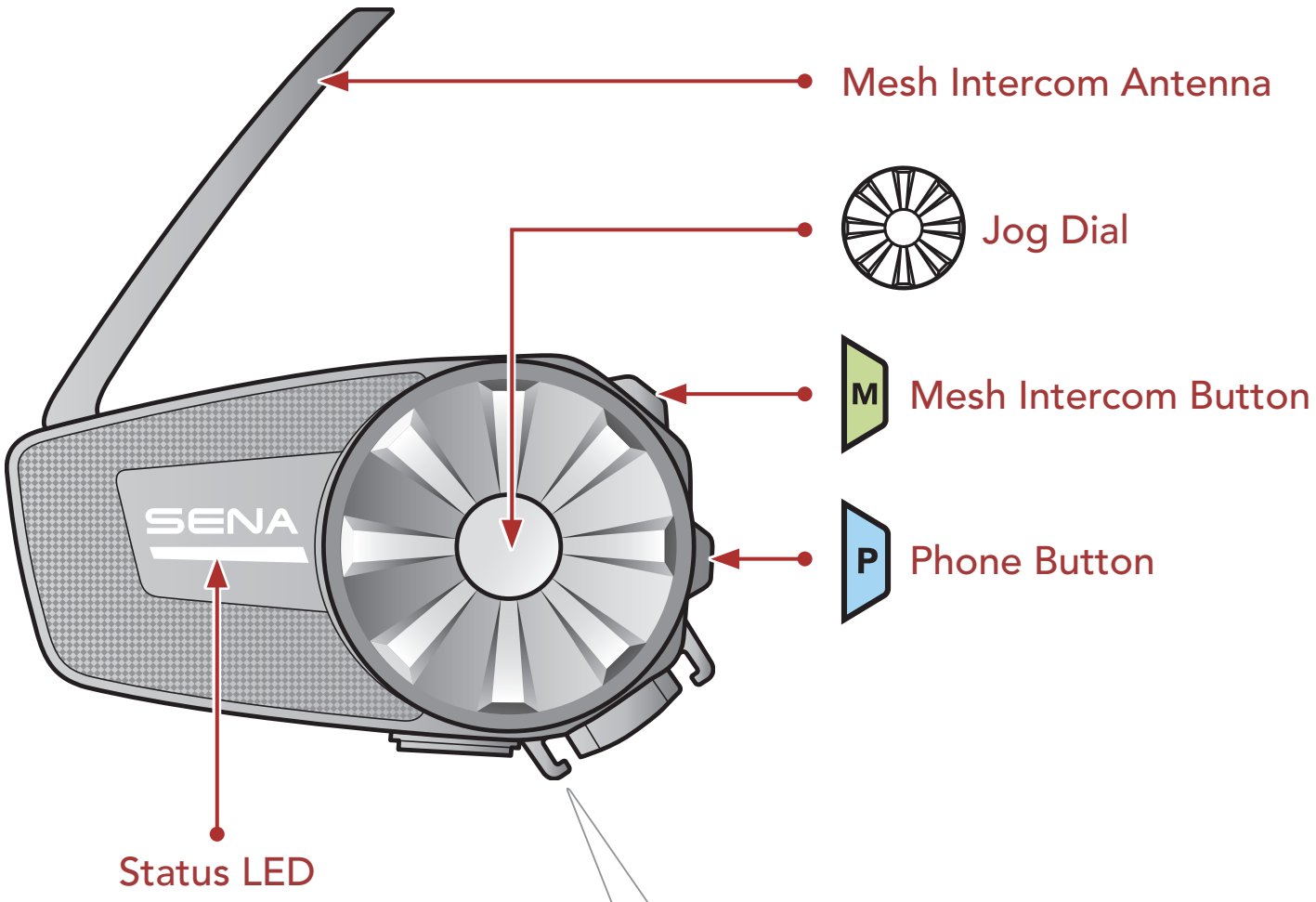
1. ABOUT THE SPIDER ST1

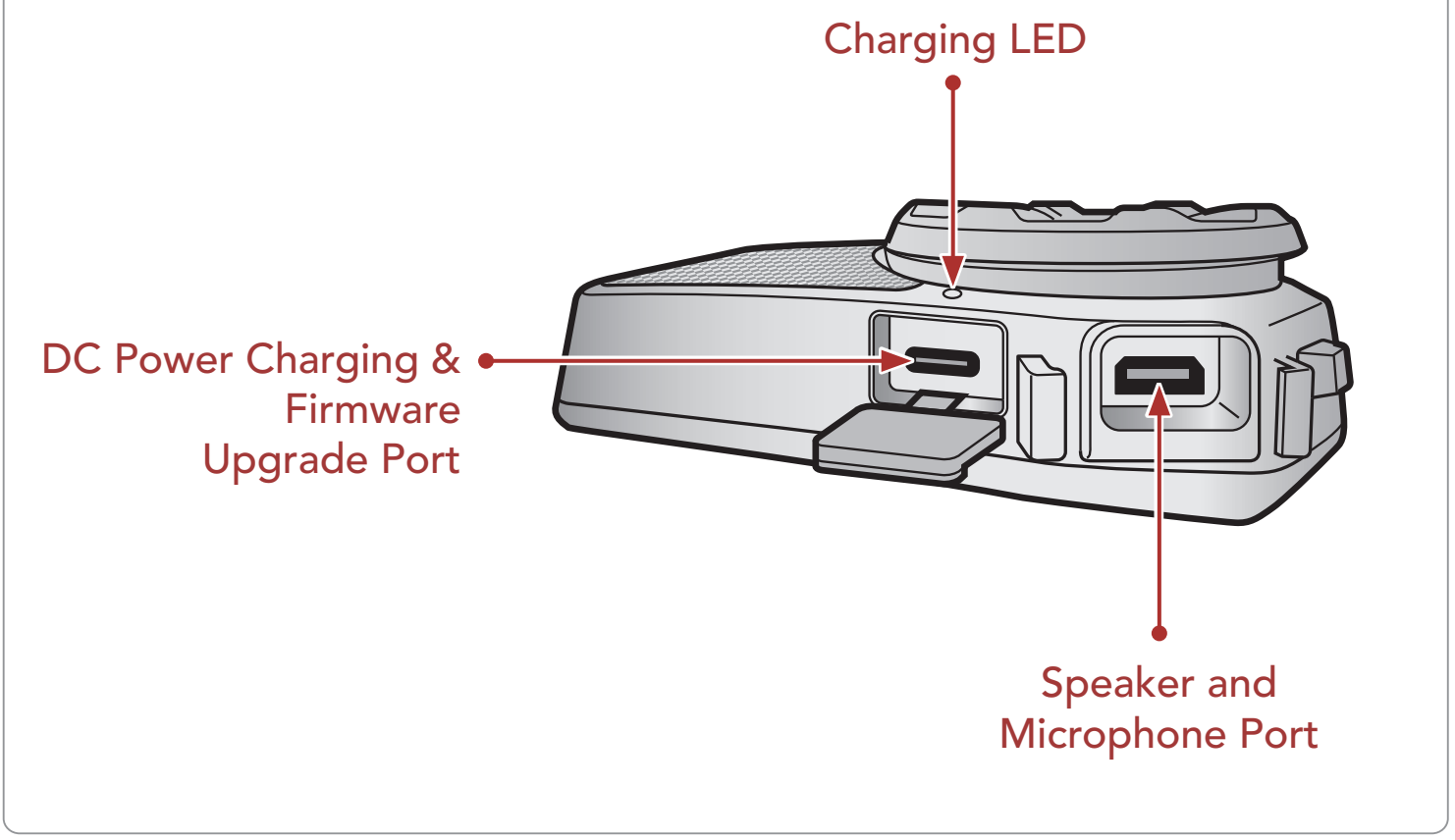
1.1 Product Features

- Bluetooth® 5.2
- Mesh Intercom™ up to 2 km (1.2 mi)*
- Audio Multitasking™
- Advanced Noise Control™
- Over-The-Air (OTA) Firmware Update
- Fast Charging

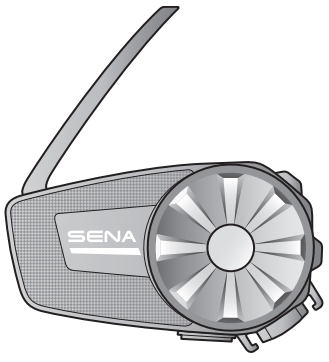
* in open terrain

1.2 Product Details

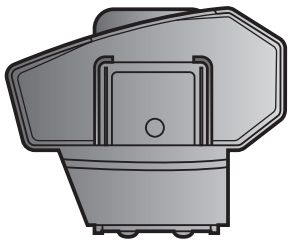




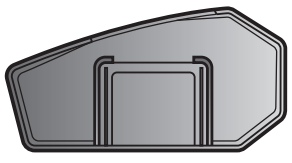
1.3 Package Contents



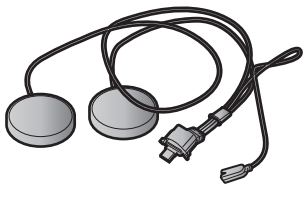
Headset Main Unit



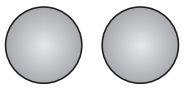
Clamp Unit



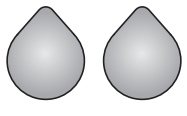
Glued Surface Mounting Plate



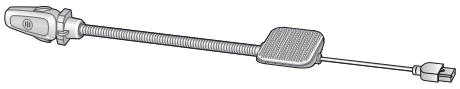
Speakers



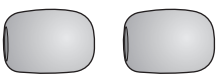
Speaker Pads



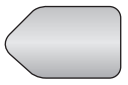
Hook and Loop Fasteners for Speakers



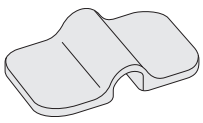
Wired Boom Microphone



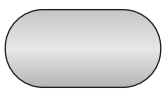
Microphone Sponges



Hook and Loop Fastener for Boom Microphone

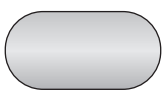


Boom Microphone Holder

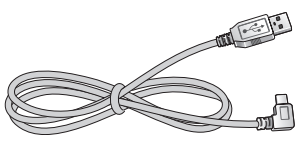


Hook and Loop Fastener for Holder

Wired Microphone



Hook and Loop Fastener for Wired Microphone



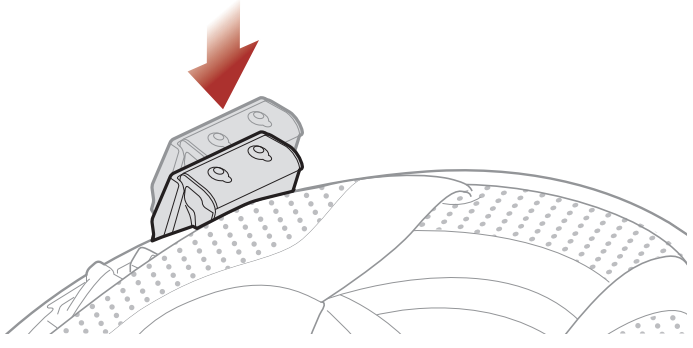
USB Power & Data Cable (USB-C)

2. INSTALLING THE HEADSET ON YOUR HELMET

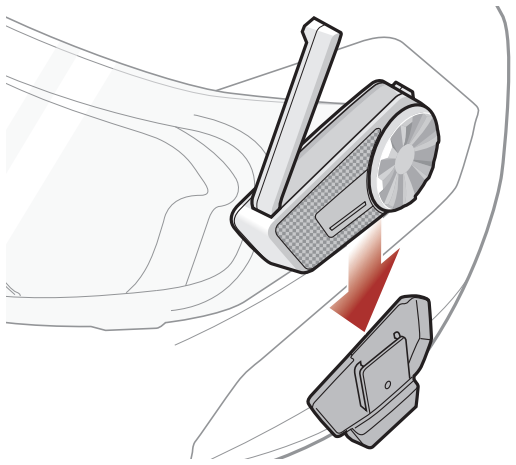
2.1 Helmet Installation

2.1.1 Using the Clamp Unit

1. Insert the back plate of the clamp unit between the internal padding and external shell of the left side of the helmet.



2. Attach the main unit to the clamp unit until you hear a click.

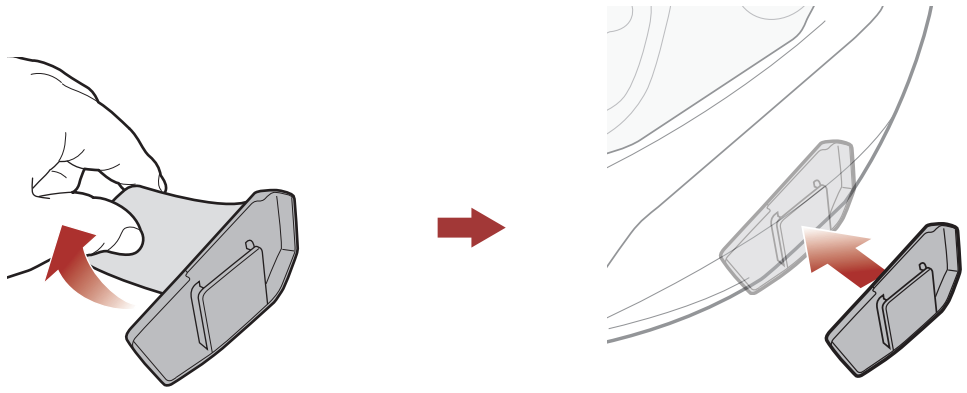


2.1.2 Using the Glued Surface Mounting Plate

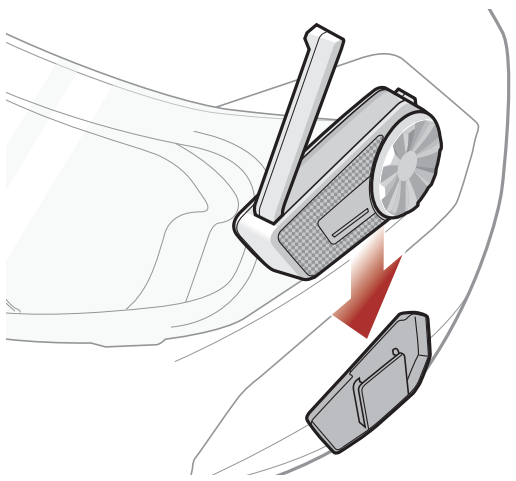
If you cannot install the clamp unit on the helmet, you can use the glued surface mounting plate to attach the clamp unit to the surface of the helmet.

1. Clean the area on the left side of the helmet where you will attach the glued surface mounting plate with a moistened towel and dry thoroughly.

2. Peel off the cover of the adhesive tape of the glued surface mounting plate and attach it to the helmet.

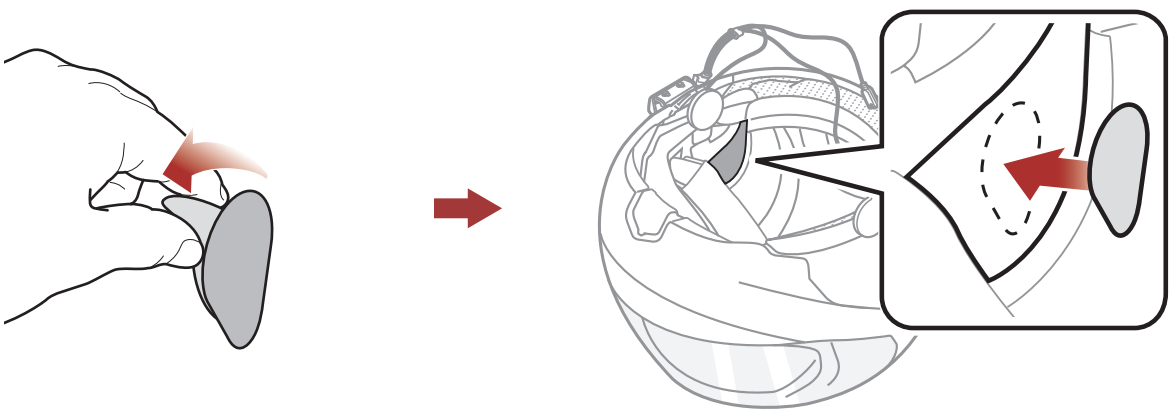


3. Make sure that the glued surface mounting plate sticks on the helmet firmly. Maximum adhesion occurs after 24 hours.
4. Attach the main unit to the glued surface mounting plate until you hear a click.

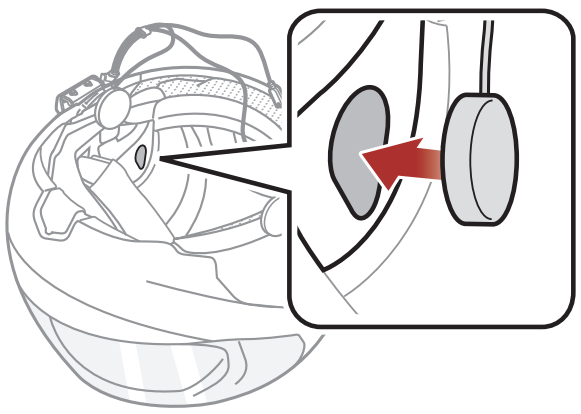


2.2 Installing the Speakers

1. Peel off each cover of the hook and loop fasteners for speakers to expose the adhesive surface. Then, attach the fasteners to the ear pockets inside the helmet.



2. Attach the speakers to the hook and loop fasteners for speakers inside the helmet.

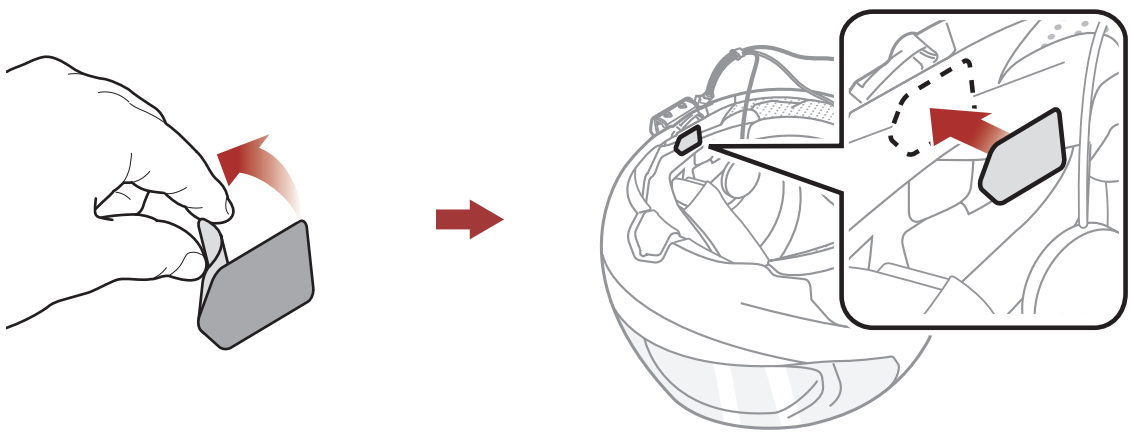


Note: If the helmet has deep ear pockets, you can use the speaker pads to bring the speakers closer to your ears.

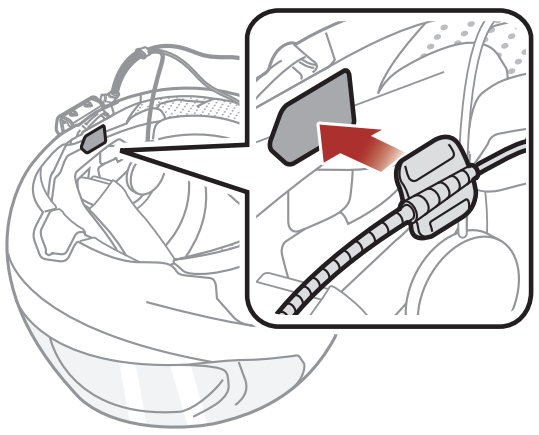
2.3 Installing the Microphone

2.3.1 Installing the Wired Boom Microphone

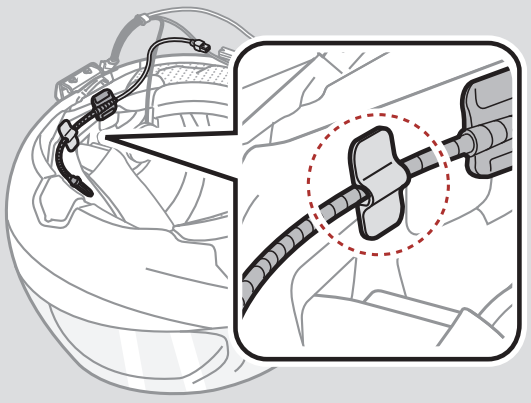
1. Peel off the cover of the hook and loop fastener for wired boom microphone to expose the adhesive tape. Then, attach the hook and loop fastener on the inside surface of the left external shell.



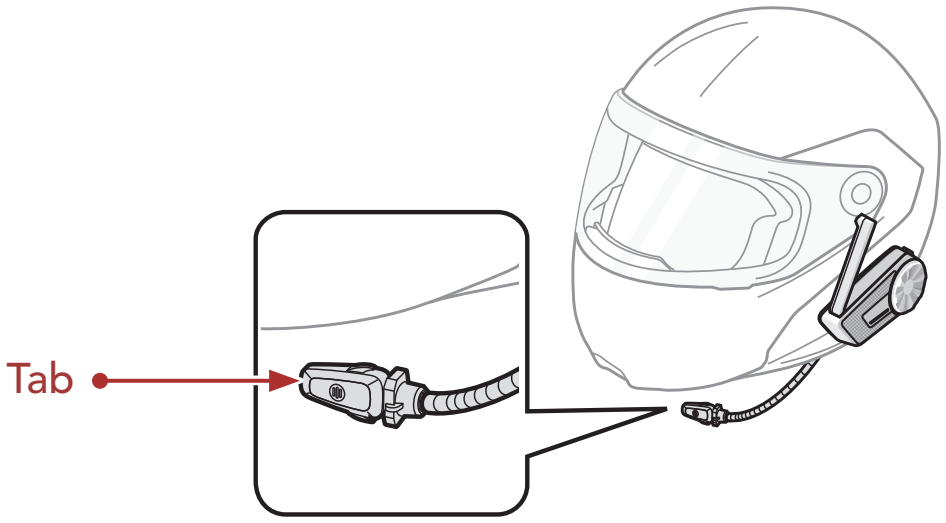
2. Attach the wired boom microphone's mounting plate to the hook and loop fastener.



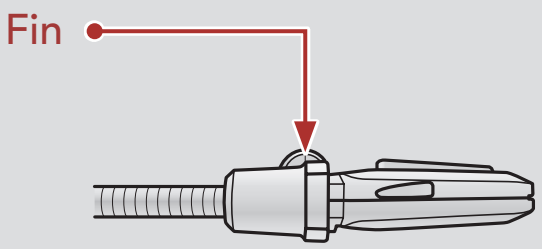
Note: You can use the boom microphone holder after attaching the hook and loop fastener for boom microphone holder on it to ensure secure installation.



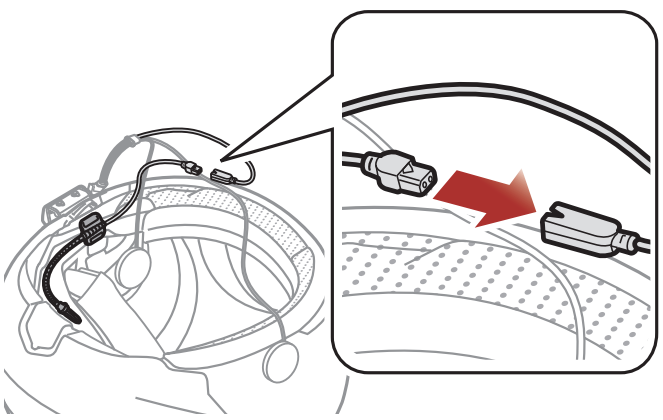
3. Adjust the head of the microphone so that the tab is facing away from your mouth.



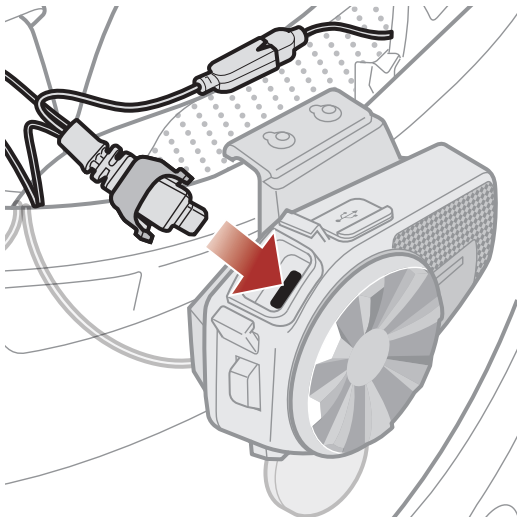
Note: Make sure that the microphone is located properly close to your mouth when you wear the helmet. Adjust the direction of the microphone so that the fin side of the microphone is facing outward, away from your lips.



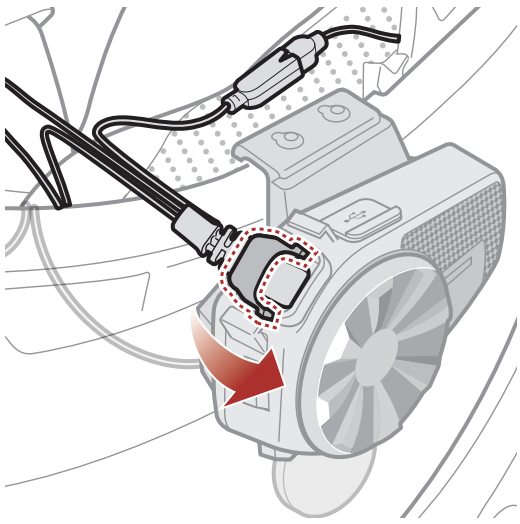
4. Align the arrows on the microphone and speaker cables and insert the microphone cable into the microphone connector.



5. Insert the speaker cable into the speaker and microphone port to connect it to the main unit.



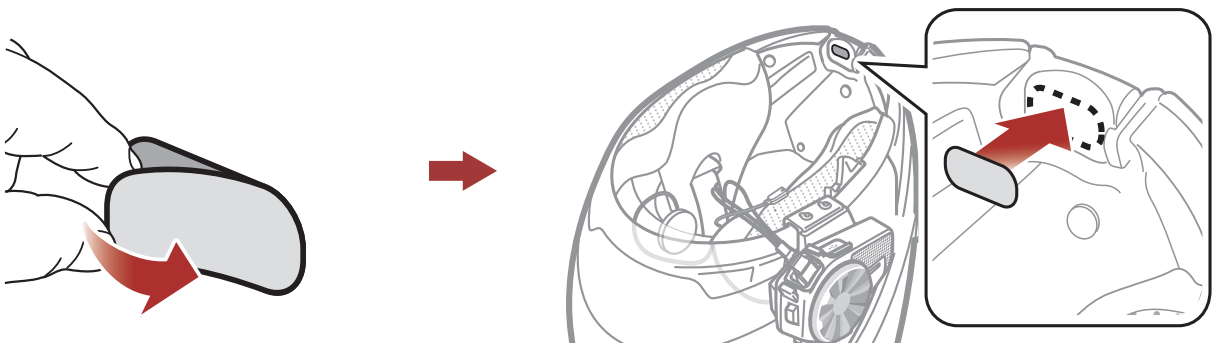
6. Close the cover of the speaker cable to lock the cable to the port.



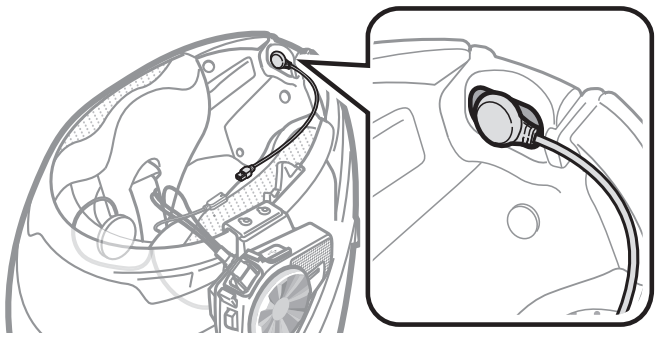
2.3.2 Installing the Wired Microphone

If you have a full face helmet, you can use the wired microphone.

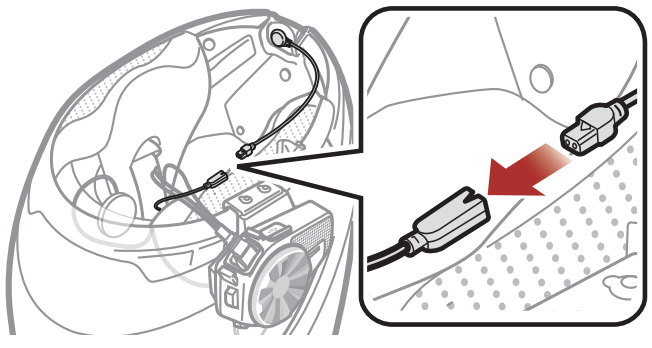
1. Peel off the cover of the hook and loop fastener for wired microphone to expose the adhesive tape. Then, attach the hook and loop fastener on the inside of the helmet's chin guard.



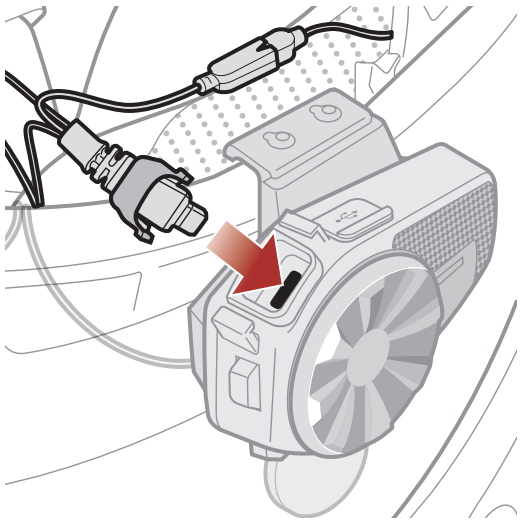
2. Attach the wired microphone to the hook and loop fastener for wired microphone.



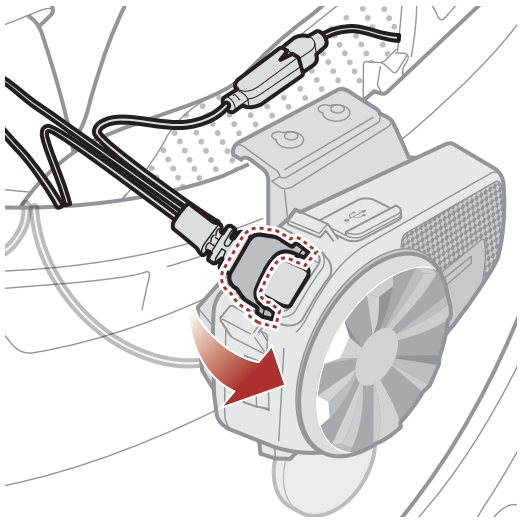
3. Align the arrows on the microphone and speaker cables and insert the microphone cable into the microphone connector.



4. Insert the speaker cable into the speaker and microphone port to connect it to the main unit.



5. Close the cover of the speaker cable to lock the cable to the port.



3. GETTING STARTED

3.1 Downloadable Sena Software

3.1.1 Sena Motorcycles App

By simply pairing your phone with your headset, you can use the **Sena Motorcycles App** for quicker, easier set up and management.

Sena Motorcycles

- Device configuration
- Over-The-Air (OTA) Firmware Update

- Download the **Sena Motorcycles App** on **Google Play Store** or **App Store**.

3.1.2 Sena Device Manager

The **Sena Device Manager** allows you to upgrade firmware and configure settings directly from your PC.

Sena Device Manager

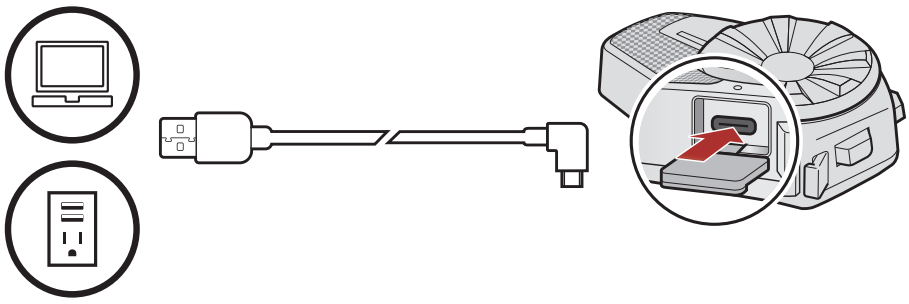
- Download the **Sena Device Manager** at sena.com.

NOTICE

- **This User Guide (Version 2.0.0 or higher) explains how to operate the SPIDER ST1 with firmware version 2.0.0 or higher.**
- **For operating the SPIDER ST1 with a firmware version lower than 2.0.0, refer to the SPIDER ST1 User Guide that is available when you connect the SPIDER ST1 to the Sena Motorcycles App.**

3.2 Charging

Charging the Headset



Depending upon the charging method, the headset will be fully charged in about 2.5 hours.

Note:

- The headset includes a **Fast Charging** feature which allows it to charge quickly over a short period of time. For example, a user can get up to 2.0 hours of Mesh communication after charging the headset for 20 minutes.
- Any 3rd party USB charger can be used with Sena products if the charger is approved by either the FCC, CE, IC, or other locally approved agencies.
- Use of a non-approved charger may cause fire, explosion, leakage, and other hazards which may also reduce the life time or performance of the battery.

3.3 Legend

Tap button/Jog Dial the specified number of times

Press and Hold button/Jog Dial for the specified amount of time

Rotate Jog Dial clockwise (right) or counterclockwise (left).

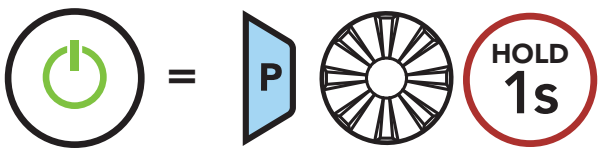
Rotate while Pressing Jog Dial clockwise (right) or counterclockwise (left).

"Hello"

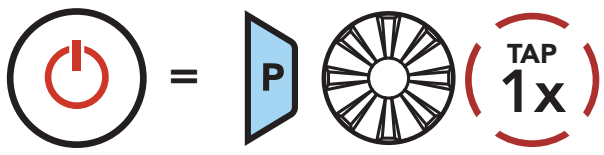
Audible prompt

3.4 Powering On and Off

Powering On



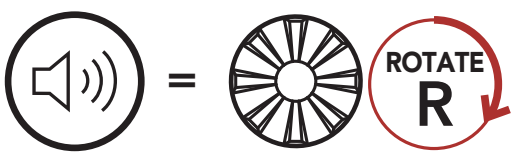
Powering Off



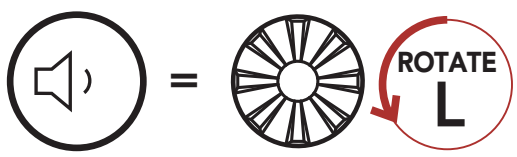
3.5 Volume Adjustment

You can raise or lower the volume by rotating the **Jog Dial** clockwise or counterclockwise. Volume is set and maintained independently at different levels for each audio source (i.e., phone, intercom), even when the headset is rebooted.

Volume Up



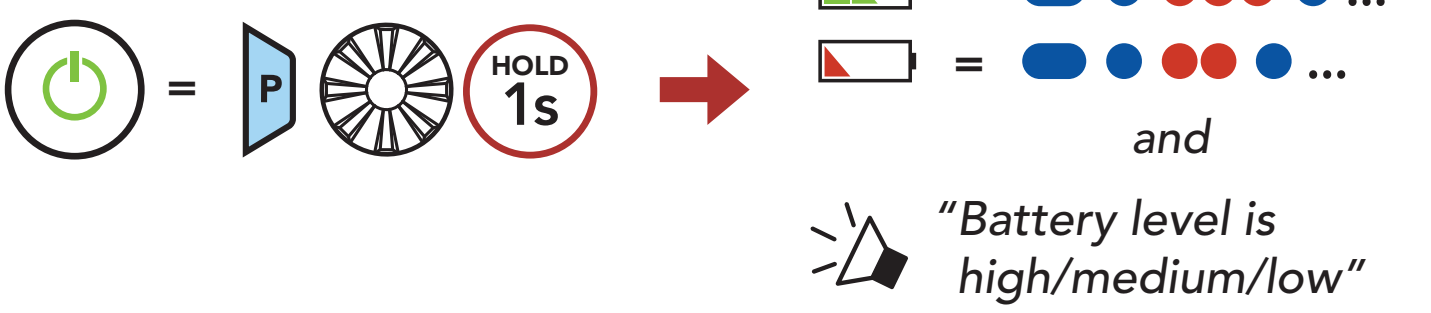
Volume Down



3.6 Checking the Battery Level

Instructions are for when powering the headset on.

Powering On



Note: When the battery is low while in use, you will hear a voice prompt saying **"Low battery."**

4. PAIRING THE HEADSET WITH OTHER BLUETOOTH DEVICES

When using the headset with other Bluetooth devices for the first time, they will need to be "paired." This enables them to recognize and communicate with one another whenever they are within range.

The headset can pair with multiple Bluetooth devices such as a mobile phone or GPS via **Mobile Phone Pairing, Second Mobile Phone Pairing and GPS Pairing**.

4.1 Phone Pairing

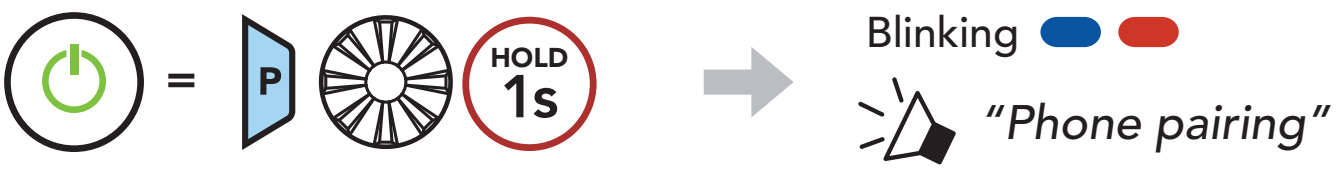
There are three ways to pair the phone.

4.1.1 Initially Pairing the SPIDER ST1

The headset will automatically enter the phone pairing mode when you initially turn on the headset or in the following situation:

- Rebooting after executing **Factory Reset**.

1. Press and hold the **Phone Button** and the **Jog Dial** for **1 second**.



Note:

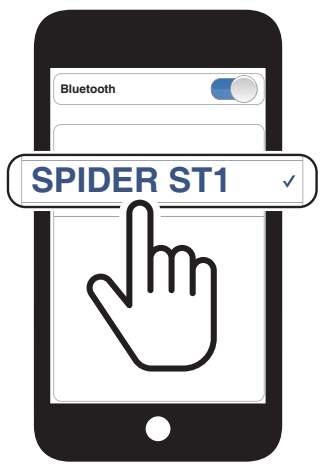
- The phone pairing mode lasts for **3 minutes**.
- To cancel phone pairing, tap any Button.

2. Select **SPIDER ST1** in the list of Bluetooth devices detected. If your mobile phone asks for a PIN, enter 0000.

4.1.2 Pairing When the SPIDER ST1 is Turned Off

1. While the headset is off, press and hold the **Phone Button** and the **Jog Dial** until the LED flashes red and blue alternately and you hear a voice prompt, **"Phone pairing."**

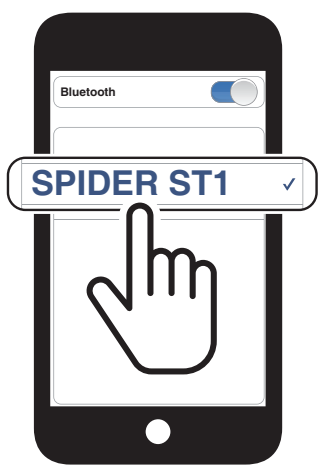
2. Select **SPIDER ST1** in the list of Bluetooth devices detected. If your mobile phone asks for a PIN, enter 0000.



4.1.3 Pairing When the SPIDER ST1 is Turned On

1. While the headset is on, press and hold the **Phone Button** for **5 seconds**.

2. Select **SPIDER ST1** in the list of Bluetooth devices detected. If your mobile phone asks for a PIN, enter 0000.



4.2 Second Mobile Phone Pairing

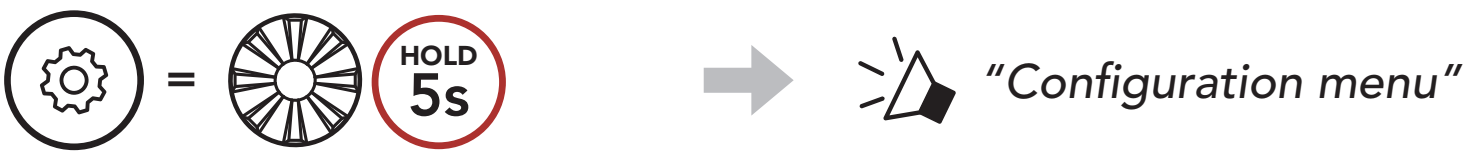
1. Press and hold the **Jog Dial** for **5 seconds**.

2. Rotate the **Jog Dial** clockwise until you hear a voice prompt, "Second mobile phone pairing."

3. Select **SPIDER ST1** in the list of Bluetooth devices detected. If your Bluetooth device asks for a PIN, enter 0000.

4.3 GPS Pairing

1. Press and hold the **Jog Dial** for **5 seconds**.



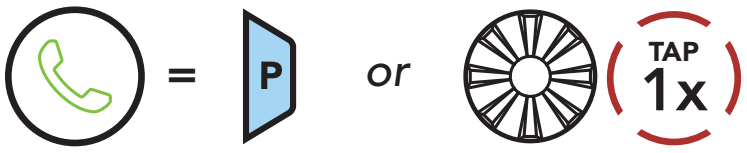
2. Rotate the **Jog Dial** clockwise until you hear a voice prompt, "GPS Pairing."

3. Select **SPIDER ST1** in the list of devices detected. If your Bluetooth device asks for a PIN, enter 0000.

5. MOBILE PHONE USAGE

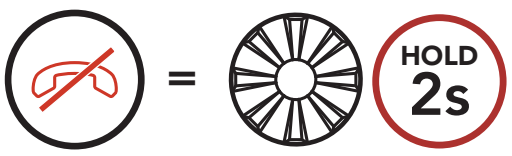
5.1 Making and Answering Calls

Answer a Call



End a Call

Reject a Call



Call a Voice Assistant

5.2 Speed Dialing

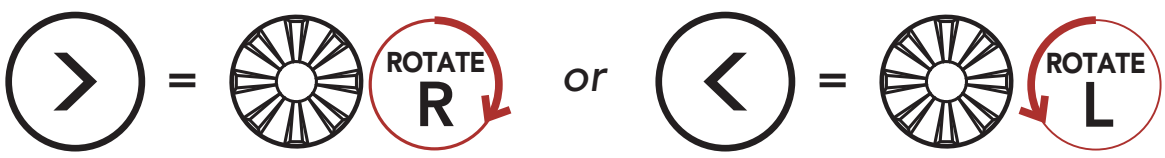
5.2.1 Assigning Speed Dial Presets

Speed Dial Presets could be assigned through the **Sena Device Manager** or the **Sena Motorcycles App**.

5.2.2 Using Speed Dial Presets

1. Enter into the **Speed Dial** menu.

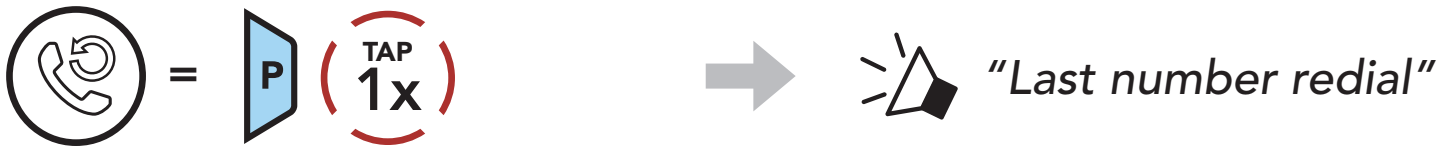
2. Navigate forward or backward through **Speed Dial Preset** numbers.



3. Call one of your **Speed Dial Presets** numbers.

4. Redial the last number called.

Redial Last Number



5.3 HD Voice (Always On)

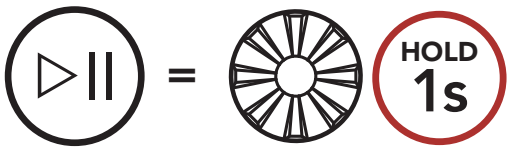
HD Voice allows you to communicate in high-definition during phone calls. This feature increases the quality so that the audio will be crisp and clear during phone call conversations.

Note: Refer to the manufacturer of your Bluetooth device that will be connected to the headset to see if it supports **HD Voice**.

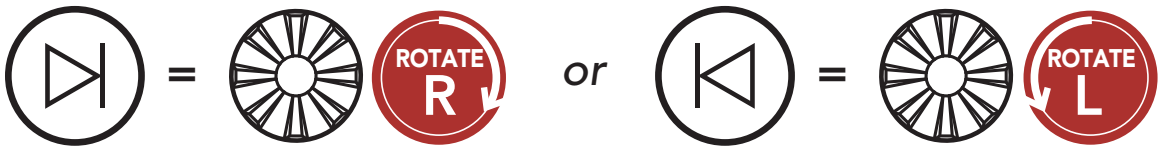
6. STEREO MUSIC

6.1 Playing Music with Bluetooth Devices

Play/Pause Music



Track Forward/Backward



7. MESH INTERCOM

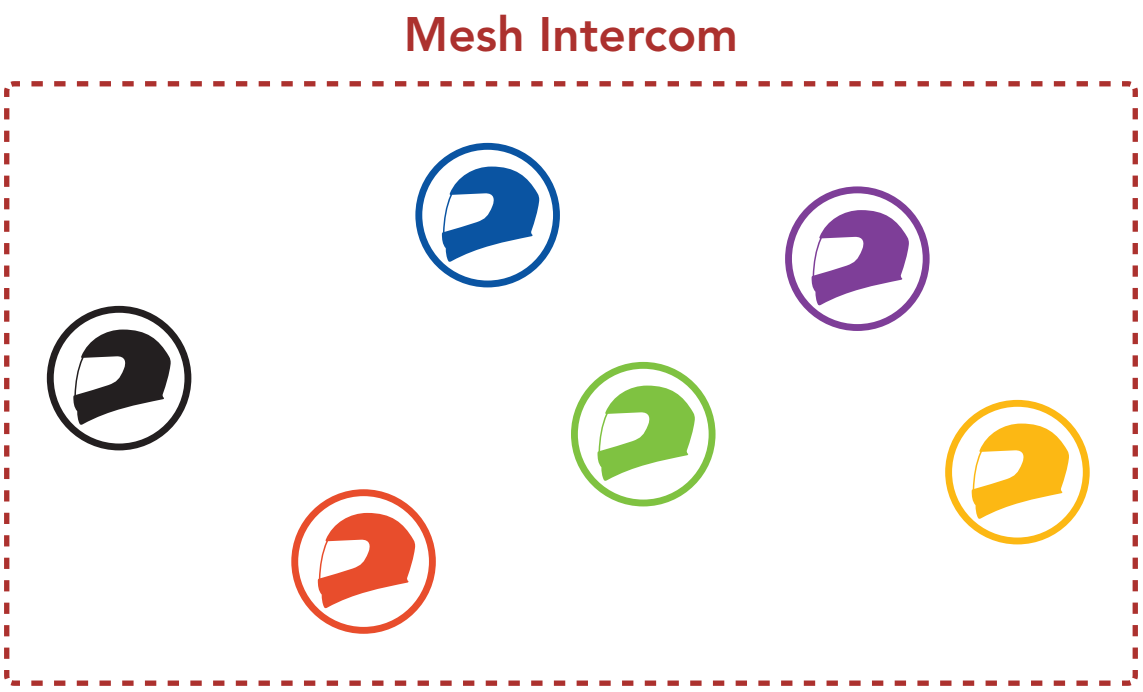
7.1 What is Mesh Intercom?

Mesh Intercom™ is a dynamic communication system created by Sena that provides instant and effortless bike-to-bike communication without a pre-grouping process. **Mesh Intercom** allows users to connect and communicate with nearby users without the need to pair each headset together.

The working distance between each **SPIDER ST1** in **Mesh Intercom** can be up to 2 km (1.2 miles) in open terrain. In open terrain, the **Mesh** can be extended up to 8 km (5 miles) between a minimum of six users.

Users can communicate in two modes:

- Open Mesh™ for open group intercom conversations.
- Group Mesh™ for private group intercom conversations.



7.1.1 Open Mesh

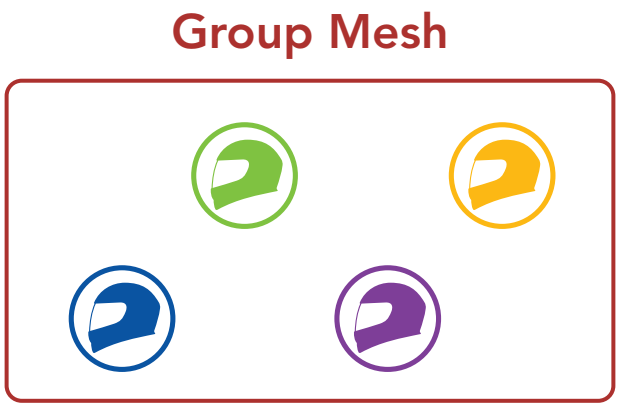
Open Mesh is an open group intercom function. Users can freely communicate with each other in the same **Open Mesh** channel and select which channel (1-9) to use through the headset.

It can connect with a virtually unlimited number of users in each channel.

7.1.2 Group Mesh

Group Mesh is a closed group intercom function that allows users to join, leave, or rejoin a group intercom conversation without pairing each headset. Users can freely communicate with each other in the same private group in **Group Mesh**.

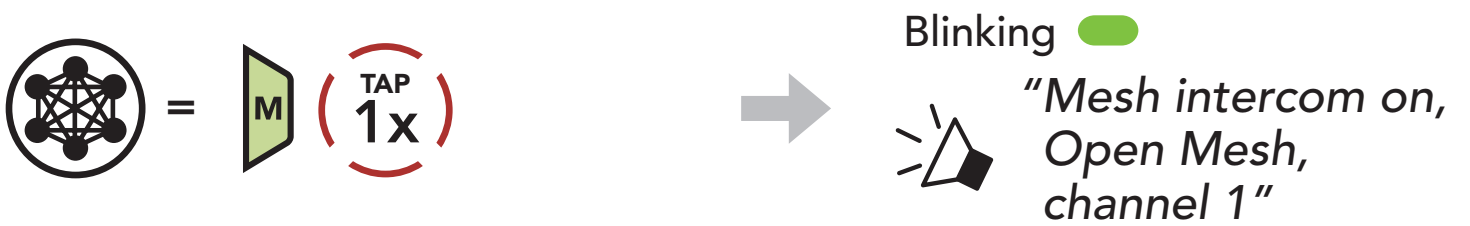
For closed intercom conversations using **Mesh Intercom**, a **Group Mesh** needs to be created by the users. When users create a private group in **Group Mesh** by **Mesh Grouping**, the headset automatically switches from **Open Mesh** to **Group Mesh**. Up to 24 users can all be connected in each private group.



7.2 Starting Mesh Intercom

When **Mesh Intercom** is enabled, the **SPIDER ST1** will automatically connect to nearby **SPIDER ST1** users and allow them to talk to each other.

Mesh Intercom On



Mesh Intercom Off

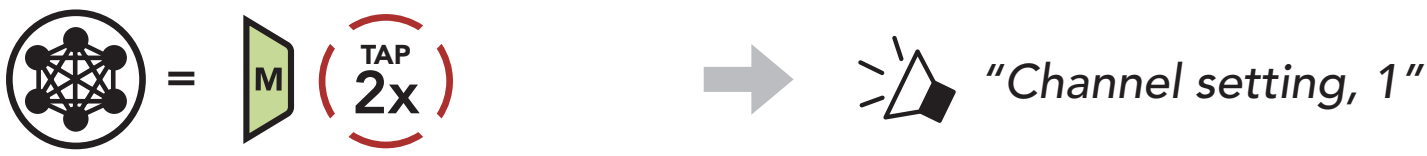
7.3 Using the Mesh in Open Mesh

When **Mesh Intercom** is enabled, the headset will be in **Open Mesh (default: channel 1)** initially.

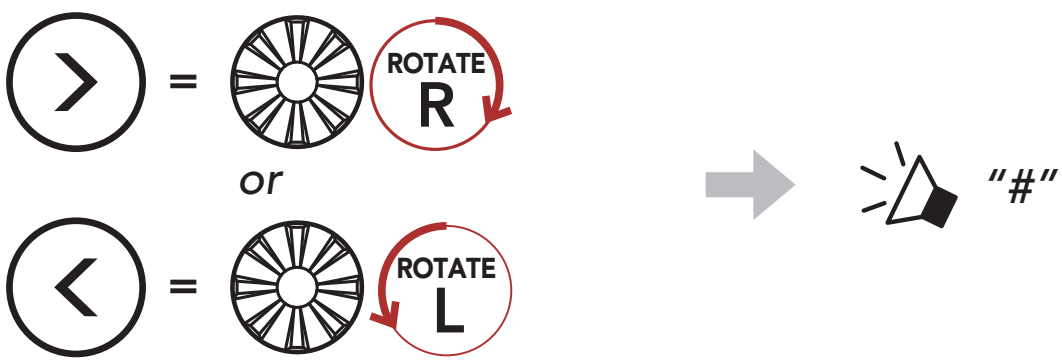
7.3.1 Channel Setting (Default: channel 1)

If the **Open Mesh** communication experiences interference because other groups are also using **channel 1 (default)**, change the channel. You can select from channels 1 to 9.

1. Double tap the **Mesh Intercom Button**.



2. Navigate between channels.
   (1 → 2 → ••• → 8 → 9 → Exit → 1 → •••)



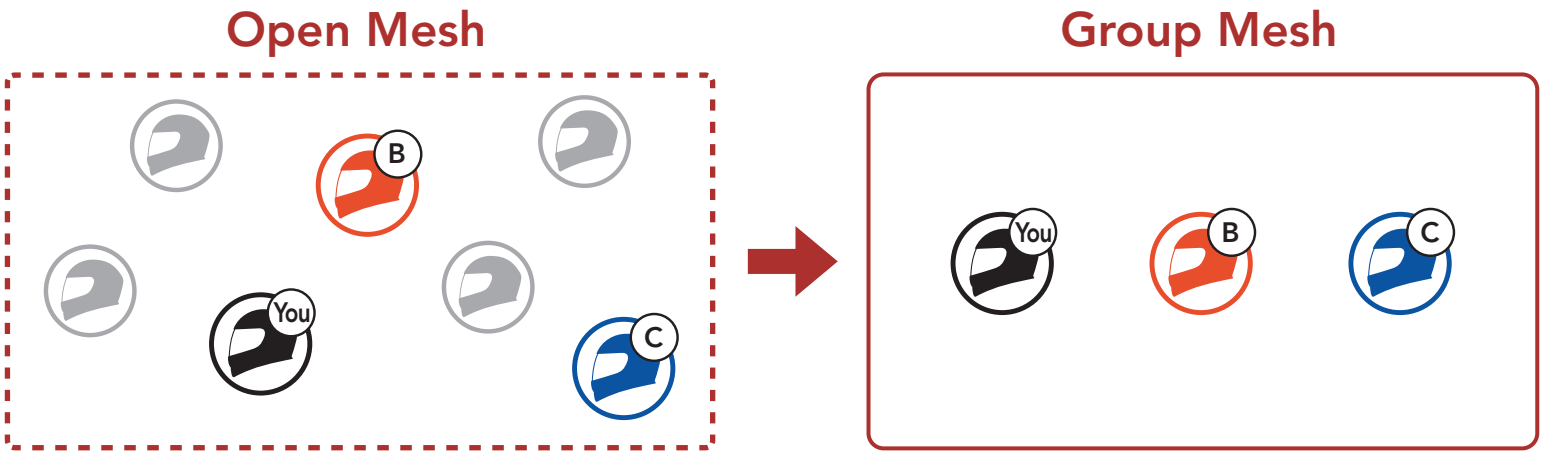
3. Save the channel.

Note:
- **Channel Setting** always starts with channel 1.
- If you do not press any button for approximately **10 seconds** in a specific channel, the channel is automatically saved.
- The channel will be remembered even if you turn off the **SPIDER ST1**.
- You can use the **Sena Motorcycles App** to change the channel.

7.4 Using Mesh in Group Mesh

7.4.1 Creating a Group Mesh

Creating a **Group Mesh** requires **two or more Open Mesh users**.



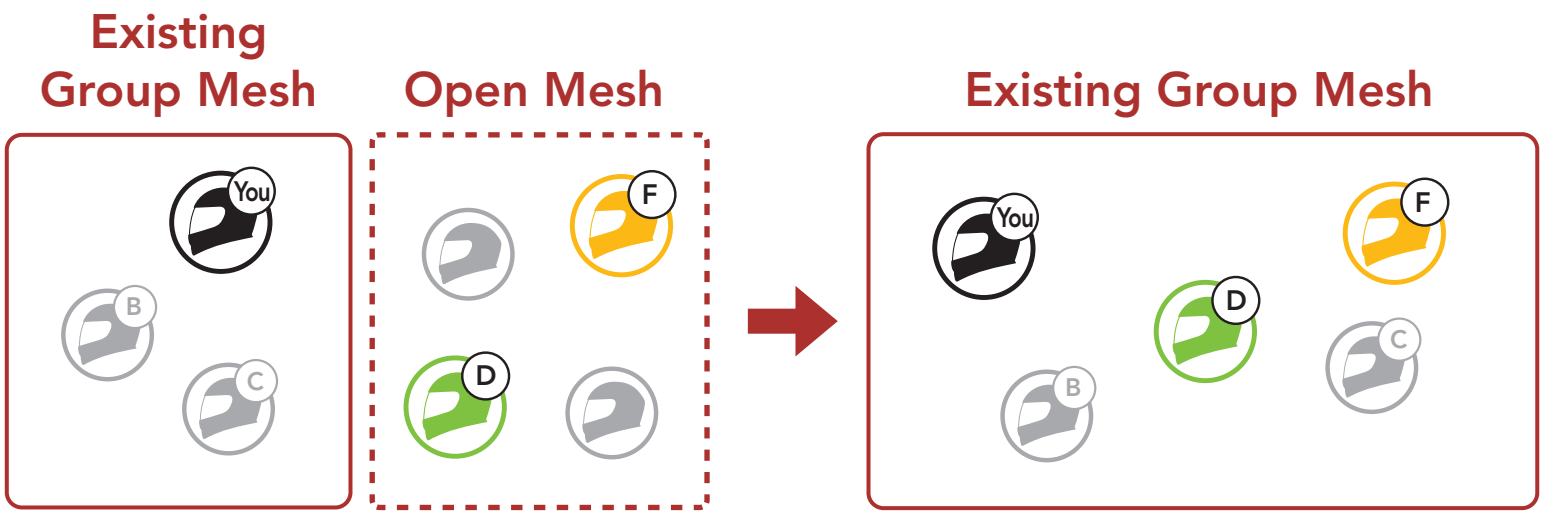
1. To enter **Mesh Grouping** to create a **Group Mesh**, press and hold the **Mesh Intercom Button** for **5 seconds** on the **users (You, B, and C)** headsets.

2. When **Mesh Grouping** is completed, the **users (You, B and C)** will hear a voice prompt on their headset as **Open Mesh** switches to **Group Mesh**.

Note:
- If the **Mesh Grouping** is not completed within **30 seconds**, users will hear a voice prompt, **"Grouping failed."**
- If you want to cancel during the **Mesh Grouping**, tap the **Mesh Intercom Button**.

7.4.2 Joining an Existing Group Mesh

One of the current users in an **Existing Group Mesh** can allow **new users (one or more)** in **Open Mesh** to join the **Existing Group Mesh**.



1. To enter **Mesh Grouping** to join the **Existing Group Mesh**, press and hold the **Mesh Intercom Button** for **5 seconds** on the headsets of **one (You) of the current users** in the **Existing Group Mesh** and the **new users (D and F)** in **Open Mesh**.

2. When **Mesh Grouping** is completed, the **new users (D and F)** will hear a voice prompt on their headset as **Open Mesh** switches to **Group Mesh**.

Note: If the **Mesh Grouping** is not completed within **30 seconds**, the current user (You) will hear low-toned double beeps and the new users (D and F) will hear a voice prompt, **"Grouping failed."**

7.5 Enable/Disable Mic (Default: Enable)

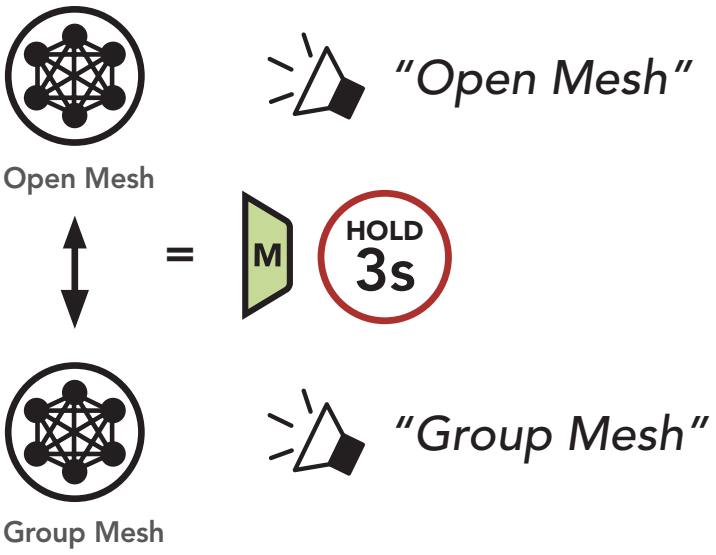
Users can enable/disable the microphone when communicating in a **Mesh Intercom**.

7.6 Toggling Open Mesh/Group Mesh

Users are able to toggle between **Open Mesh** and **Group Mesh** without resetting the **Mesh**. This allows users to keep the **Group Mesh Network** connection information while in **Open Mesh**.

Users can toggle to **Group Mesh** to communicate with participants from the stored **Group Mesh Network** connection information.

Toggle Between Open Mesh and Group Mesh

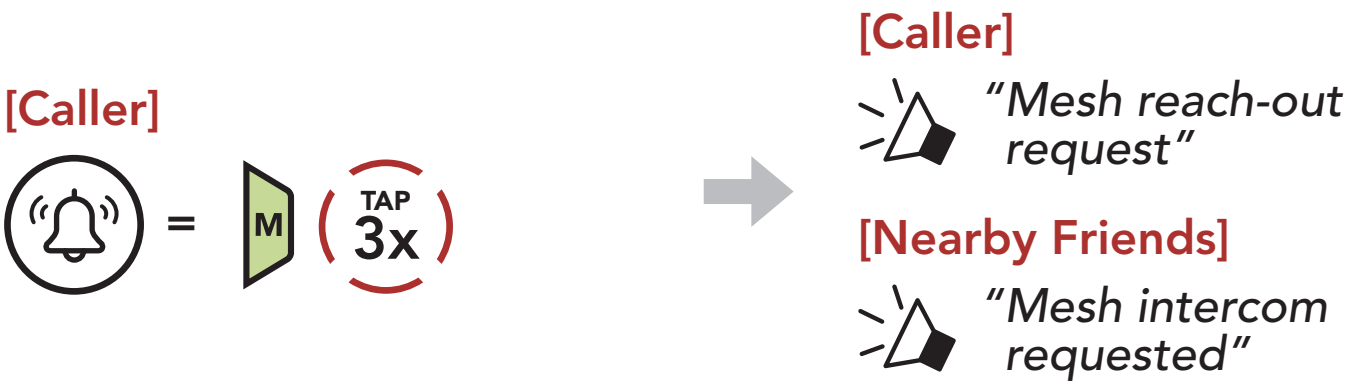


Note: If you have never participated in **Group Mesh**, you cannot toggle between **Open Mesh** and **Group Mesh**. You will hear a voice prompt, **"No group available."**

7.7 Mesh Reach-Out Request

You (caller) can send a request message to turn on the Mesh Intercom to nearby* friends who have it turned off.

1. If you want to send or receive a request message, you need to enable **Mesh Reach-Out** on the **Sena Motorcycles App**. Please refer to **Section 10.2: "Software Configuration Setting."**
2. While your headset's Mesh Intercom is on, you (caller) send a request message using the **headset's Button** or the **Sena Motorcycles App**.



3. Friends who receive the request message need to manually turn on their Mesh Intercom using the **headset's Button** or the **Sena Motorcycles App**.

Note:

- *: Up to 100 m (109 yds) in open terrain
- To use the **Mesh Reach-Out Request** function, **you (caller) who sends a request message and the friends who receive the request message must update the headset to the latest firmware version and the app to the latest version**.

7.8 Reset Mesh

If a headset in an **Open Mesh** or **Group Mesh** resets the **Mesh**, it will automatically return to **Open Mesh (default: channel 1)**.

8. MESH AUDIO MULTITASKING (ALWAYS ON)

Audio Multitasking allows you to have an intercom conversation while simultaneously listening to music.

The overlaid audio is played in the background with reduced volume whenever there is an intercom conversation and will return to normal volume once the conversation is finished.

The **Audio Multitasking** can be configured through the **Intercom-Audio Overlay Sensitivity** and the **Audio Overlay Volume Management settings**.

The **Intercom-Audio Overlay Sensitivity** and the **Audio Overlay Volume Management settings** can be found in the **Software Configuration Setting**, accessible through the **Sena Device Manager** or the **Sena Motorcycles App**.

9. FUNCTION PRIORITY AND FIRMWARE UPGRADES

9.1 Function Priority

(highest)	Mobile phone
	Mesh Intercom
(lowest)	Bluetooth stereo music

A lower-priority function gets interrupted by a higher-priority function. For example, stereo music will be interrupted by an incoming mobile phone call.

9.2 Firmware Upgrades

The headset supports firmware upgrades. There are two ways to upgrade firmware.

9.2.1 Using the Sena Motorcycles App

To update the firmware, use our Over-The-Air (OTA) Firmware Update in our **Sena Motorcycles App**.

Note: Do not turn off the headset while updating the firmware, as doing so may damage the product.

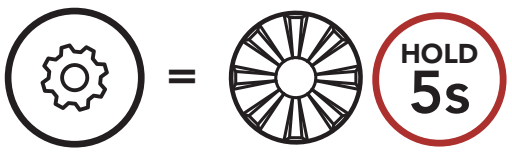
9.2.2 Using the Sena Device Manager

You can upgrade the firmware using the **Sena Device Manager** by connecting the **USB Power & Data Cable (USB-C)** to your PC.

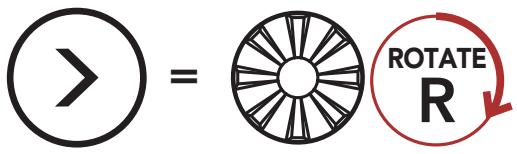
10. CONFIGURATION SETTING

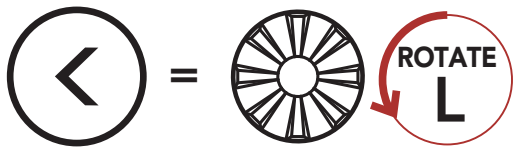
10.1 Headset Configuration Menu

Access the Configuration Menu

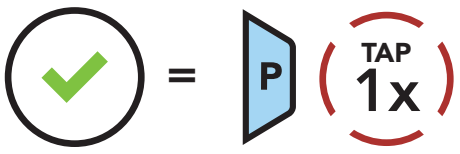


Navigate Between Menu Options





Execute Menu Options



Headset Configuration Menu

Voice Configuration Menu	Tap the Phone Button
Second Mobile Phone Pairing	None
GPS Pairing	None
Remote Control Pairing	Execute
Exit	Execute

10.1.1 Remote Control Pairing

You can remotely control the headset using **Sena Remote Control devices** (sold separately).

1. Turn on the headset and the Remote Control device.
2. Execute **Remote Control Pairing**.
3. Enter pairing mode in the Remote Control device. The headset will automatically connect with the Remote Control device in pairing mode.

10.2 Software Configuration Setting

You can change the settings of the headset through the **Sena Device Manager** or the **Sena Motorcycles App**.

Sena Motorcycles

Sena Device Manager

10.2.1 Headset Language

You can select the device language. The selected language is maintained even when the headset is rebooted.

10.2.2 Mesh Reach-Out (Default: Disable)

When the **Mesh Reach-Out** is enabled, a Mesh Reach-Out request message can be sent or received. If the **Mesh Reach-Out** is disabled, a Mesh Reach-Out request message cannot be sent or received.

10.2.3 Audio Equalizer (Default: Off)

You can use the **Audio Equalizer** to increase/decrease the decibel level of different frequency ranges of audio.

- **Balance** will adjust all of the frequency ranges to be the same volume level (0 dB).
- **Bass Boost** will increase the bass range of audio (20 Hz - 250 Hz).
- **Mid Boost** will increase the mid range of audio (250 Hz - 4 kHz).
- **Treble Boost** will increase the high range of audio (4 kHz - 20 kHz)**.**

10.2.4 VOX Phone (Default: Enable)

If this feature is enabled, you can answer incoming calls by voice. When you hear a ringtone for an incoming call, you can answer the phone by saying a word such as **"Hello"** loudly or by blowing air into the microphone. **VOX Phone** is temporarily disabled if you are connected to intercom. If this feature is disabled, you have to tap the **Jog Dial** or the **Phone Button** to answer an incoming call.

10.2.5 VOX Sensitivity (Default: 3)

Vox Sensitivity can adjust the sensitivity of Vox Phone. **Level 5** is the highest sensitivity setting and **level 1** is the lowest.

10.2.6 Intercom-Audio Overlay Sensitivity (Default: 3)

The music will be lowered to play in the background if you talk over the intercom while the overlaid audio is playing. You can adjust the intercom sensitivity to activate this background audio mode. **Level 1** has the lowest sensitivity and **level 5** has the highest sensitivity.

Note: If your voice is not louder than the sensitivity of the selected level, the overlaid audio will not be lowered.

10.2.7 Audio Overlay Volume Management (Default: Disable)

The music overlaid audio reduces in volume whenever there is an ongoing intercom conversation. If **Audio Overlay Volume Management** is enabled, the volume level of the overlaid audio will not be reduced during an intercom conversation.

10.2.8 Voice Prompt (Default: Enable)

You can disable **Voice Prompts** by software configuration settings, but the following voice prompts are always on.

- Headset configuration settings menu, battery level indicator, speed dial

10.2.9 Advanced Noise Control™ (Always On)

The background noise is reduced during an intercom conversation.

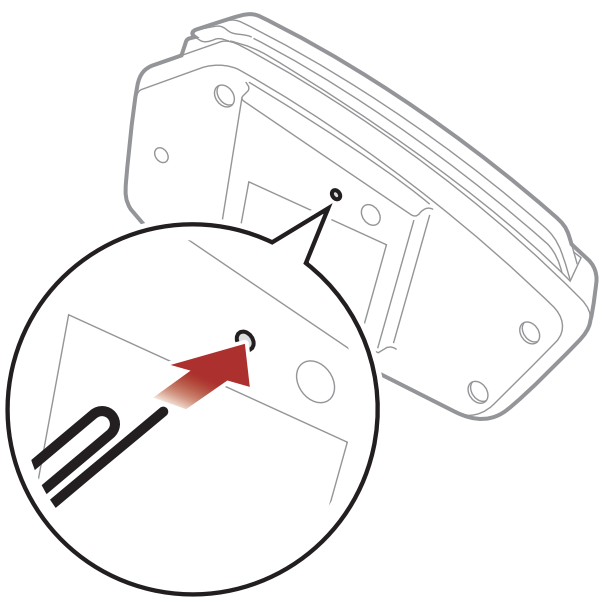
11. TROUBLESHOOTING

Please visit **sena.com** for more troubleshooting information.

11.1 Fault Reset

When the headset is not working properly, you can easily reset the unit:

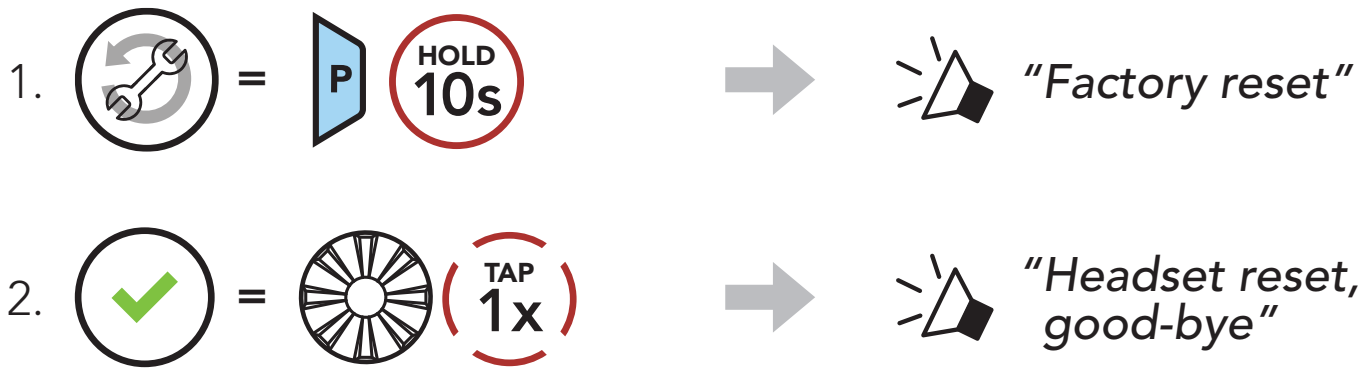
1. Locate the **Pinhole Fault Reset Button** at the bottom of the main unit.
2. Gently insert a paperclip into the hole and tap the **Pinhole Fault Reset Button** with light pressure. The headset will shut down.



Note: Fault Reset will not restore the headset to factory default settings.

11.2 Factory Reset

To erase all of your settings and start fresh, the headset can be restored to factory default settings using the **Factory Reset** feature.



SENA

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