



Boom!TM ***Audio*** HD-N02

BLUETOOTH[®] HELMET

USER'S GUIDE

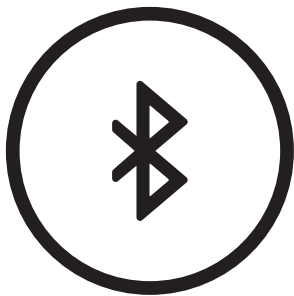
CLICK
ANY
SECTION
TO
BEGIN



ABOUT THE
HELMET



GETTING
STARTED



PAIRING WITH
DEVICES



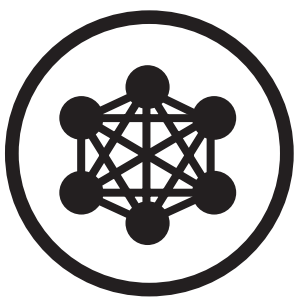
MOBILE
PHONE USAGE



STEREO
MUSIC



INTERCOM
SETUP



MESH
INTERCOM



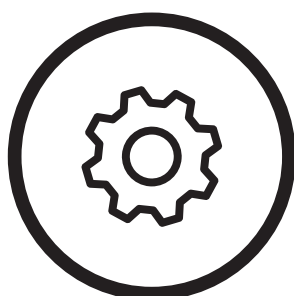
AUDIO
MULTITASKING



USING THE
FM RADIO



VOICE
COMMAND



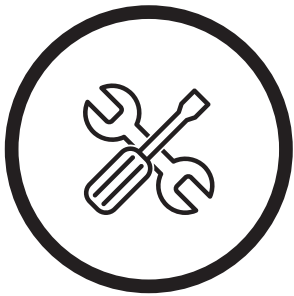
GENERAL
SETTINGS



REMOTE
CONTROL





TROUBLE-
SHOOTING

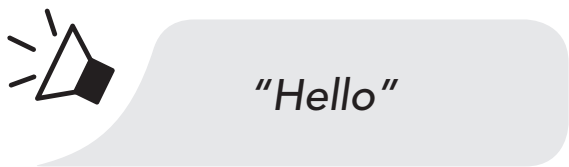


MAINTENANCE
AND CARE

LEGEND:

 **Tap** button/Jog Dial the specified number of times

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



Audible prompt from the Bluetooth system

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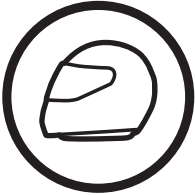
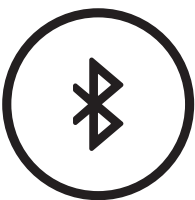
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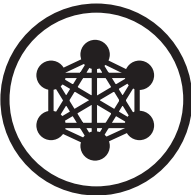


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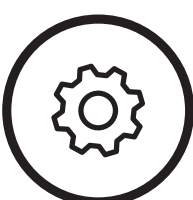
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SAFETY PRECAUTIONS

Please ensure that the product is properly used by observing the safety precautions below to prevent any risk of serious injury, death and/or damage to property.

Hazard alert signal words

The following safety symbols and signal words are used in this manual.

⚠ WARNING: Indicates a potential hazardous situations that, if not avoided, could result in death or serious injury.

⚠ CAUTION: Indicates a potential hazardous situation that, if not avoided, could result in minor or moderate injury.

NOTICE: Indicates information considered important, but not hazard-related. If not avoided, it could cause damage to your product.

Note: Notes, usage tips, or additional information

Product Use

Observe the following precautions to avoid injury or damage to your product while using the product.

⚠ WARNING

- Use of the product at a high volume for a long period of time may damage your eardrums or hearing ability.
- If the product emits an unusual smell, feels hot, or appears abnormal in any other way while using or charging, stop using it immediately. It may cause damage, explosion, or fire. Contact your sales location if any of these problems are observed.
- Careless use of the product on the road is risky and may result in serious injury, death or damage. You must heed all safety precautions in all documents that come with this product. This will help minimize the chance these risks may occur while riding.
- In any place where wireless communication is prohibited, such as hospitals or airplanes, turn off the power. In a place where wireless communication is prohibited, electromagnetic waves may cause hazards or accidents.
- Do not use the Product in an environment susceptible to explosions caused by the use of electronic devices. If in such a location, turn off the Product's power and heed any regulations, instructions, and signs in the area.
- When you use the product while you operating any vehicle or equipment such as motorcycles, scooters, mopeds, ATVs, or quadbikes (hereinafter called "transportation means"), you need to follow the safety precautions provided by the manufacturer of the vehicle.
- When you use the product, use good judgment; never use it under the influence of alcohol or drugs or when you are extremely tired.

NOTICE

- In some regions, it is prohibited by law to ride motorcycles while wearing headsets or earbuds. Therefore be certain you are aware of all relevant laws in the region where you are using the product and are sure that you comply with them.
- Do not impact the product with sharp tools as this may damage the product.
- Keep product away from pets or small children. They may damage the product.
- Any changes or modifications to the equipment not expressly approved by the party responsible for compliance could void the limited warranty to operate the equipment.

Battery

Your product has a built-in battery. Be careful to heed all safety information in this guide. Failure to carefully observe the safety precautions can cause battery heat generation, bursting, fire and serious personal injury.

⚠ WARNING

- Do not use the product in direct sunlight for a long period of time. Doing so can damage the product and generate heat that can cause burns.
- Do not use or store the product inside cars in hot weather. It may cause the battery to generate heat, rupture, or ignite.
- Do not continue charging the battery if it does not recharge within the specified charging time. Doing so may cause the battery to become hot, explode, or ignite.
- Do not leave the product near open flames. Do not dispose of the product in a fire. It may cause the battery to become hot, explode, or ignite and cause serious injury.
- Never attempt to charge a battery with the charger which has been physically damaged. It may cause explosion and/or accidents.

Product Storage and Management

Take the following precautions to avoid personal injury or damage to your product while storing and maintaining the product.

NOTICE

- Keep the product free of dust. Dust may damage mechanical and electronic parts of the product.
- The product should be stored at room temperature. Do not expose the product to extremely high or low temperature as this may reduce the life span of electronic devices, damage the battery, and/or melt plastic parts of the product.
- Do not clean the product with cleaning solvents, toxic chemicals, or strong detergents as this may damage the product.
- Do not paint the product. Paint may obstruct moving parts or interfere with the normal operation of the product.
- Do not drop or otherwise shock the product. It may damage the product or its internal electronic circuits.
- Do not disassemble, repair or modify the product as this may damage the product and invalidate the product warranty.

- Do not store the product in humid environments, especially for long periods of time. It may damage the internal electronic circuits.
- Battery performance will deteriorate over time if stored for a long period of time without being used.

Note

- Do not dispose of the product with household waste. The built-in battery is not to be disposed of in municipal waste stream and requires separate collection. Disposal of the product should be done in accordance with the local regulations.



1. ABOUT THE BOOM! AUDIO HD-N02 BLUETOOTH HELMET

1.1 General Information

General Information

This product is a motorcycle helmet.

Product Details

Do not use it for any other purpose than riding a motorcycle. If you use the helmet for anything else, it may not provide sufficient protection in an accident.

Package Contents

No helmet can protect the wearer against all possible impact scenarios.

Ventilation

For maximum protection, the Boom! Audio HD-N02 Bluetooth Helmet must fit properly on the head and its retention strap securely fastened under the chin. With the retention system comfortably but firmly adjusted, the helmet should allow sufficient peripheral vision when secured. If the helmet is too large, it may move on your head while riding. If the helmet can be removed when pulled from the back in an upward and forward direction, it's not fitted properly. This could cause the helmet to obstruct your vision while riding or come off in an accident, resulting in personal injury or death. Please refer to **Section 1.6: "Wearing the Helmet"** for more details about properly securing and wearing your helmet.

Face Shield

Wearing the Helmet

Pre-Ride Helmet Inspection

The contents of this Boom! Audio HD-N02 Bluetooth Helmet User's Guide are subjected to change without notice. Its illustration may differ from the actual product. The copyrights for the User's Guide belong to Harley-Davidson. Reproduction or copying of the **User's Guide** without permission is strictly prohibited.



1. ABOUT THE BOOM! AUDIO HD-N02 BLUETOOTH HELMET

1.2 Product Details

General
Information

Product
Details

Package
Contents

Ventilation

Face Shield

Wearing the
Helmet

Pre-Ride
Helmet
Inspection

Head Ventilation

Outer Shell

Chin
Ventilation

Face Shield

Bluetooth
System's
Buttons

Bluetooth System's
Buttons

DC Power Charging &
Firmware Upgrade Port



1. ABOUT THE BOOM! AUDIO HD-N02 BLUETOOTH HELMET

1.3 Package Contents

General
Information

Product
Details

Package
Contents

Ventilation

Face Shield

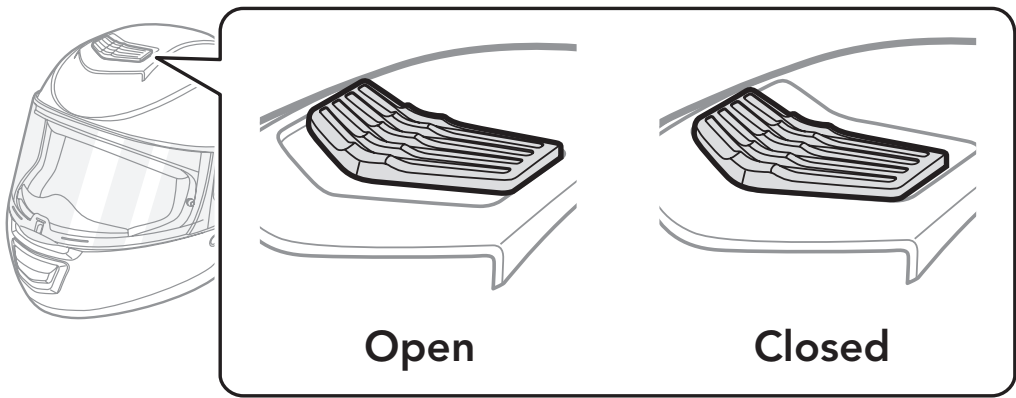
Wearing the
Helmet

Pre-Ride
Helmet
Inspection

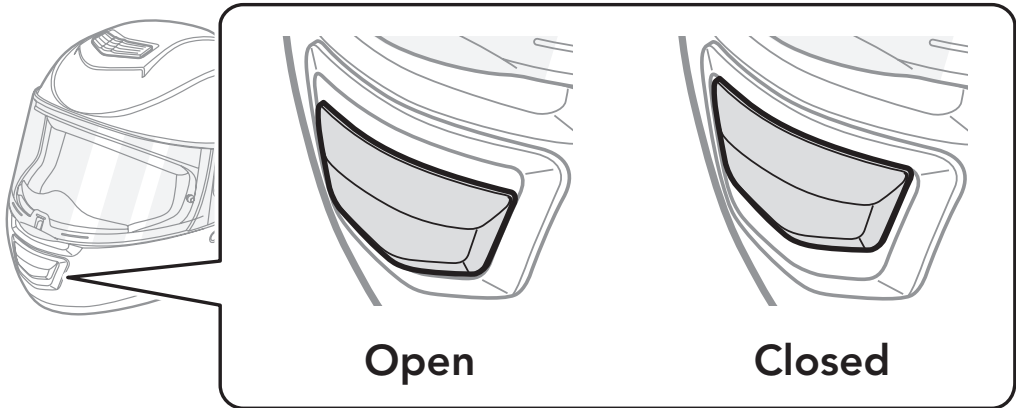
• Boom! Audio HD-N02 Helmet	
• USB Power & Data Cable	
• Helmet Pouch	
• Helmet Stand	
• Pinlock®	

1.4 Ventilation

Head Ventilation:



Chin Ventilation:





1. ABOUT THE BOOM! AUDIO HD-N02 BLUETOOTH HELMET

1.5 Face Shield

General Information

Product Details

Package Contents

Ventilation

Face Shield

Wearing the Helmet

Pre-Ride Helmet Inspection

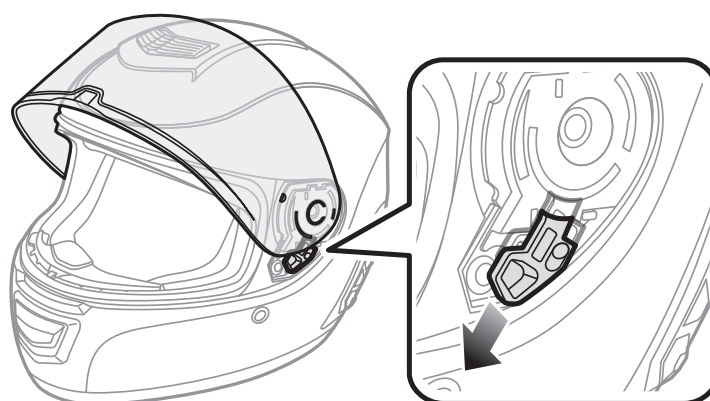
The face shield is coated with an anti-scratch treatment. Removing and installing the shield is quick and easy:

Removal

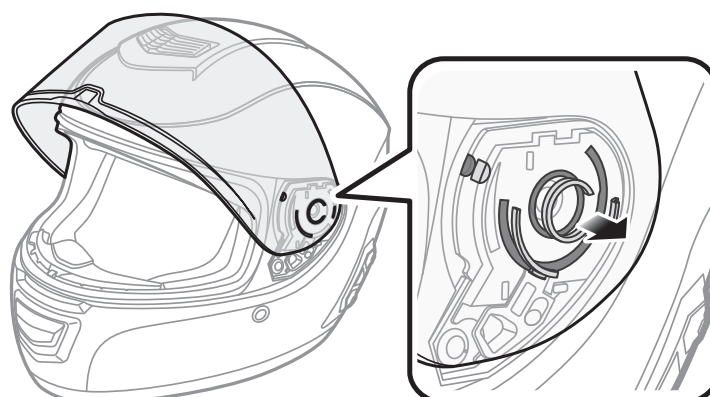
1. Lift the shield upward so that it is in the most open position.



2. Release the locking mechanism by pulling it in the direction of the arrow.



3. Firmly lift the shield away from the locking mechanism.



4. Repeat on the other side.



1. ABOUT THE BOOM! AUDIO HD-N02 BLUETOOTH HELMET

General Information

Product Details

Package Contents

Ventilation

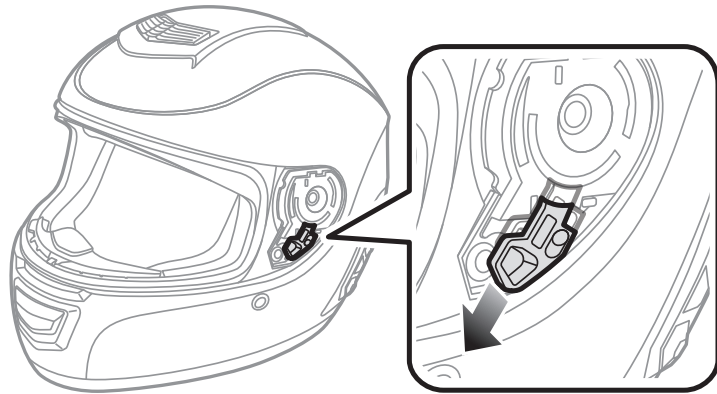
Face Shield

Wearing the Helmet

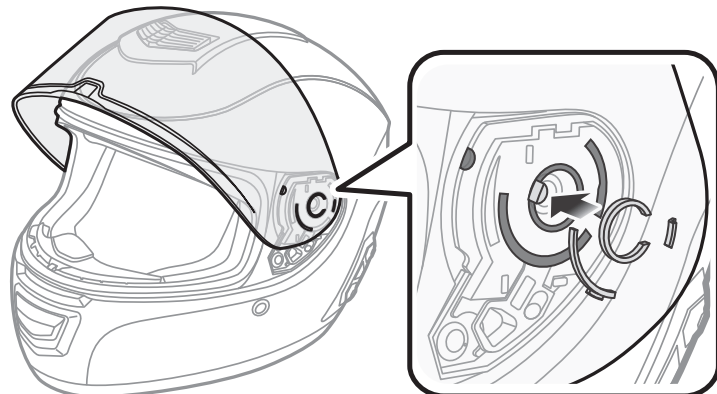
Pre-Ride Helmet Inspection

Installation

1. Keep the locking mechanism open by pushing it in the direction of the arrow.



2. Align and insert the shield guide into the locking mechanism as shown.



3. Release the locking mechanism to lock the shield in place. Make sure that the guide is locked properly into the helmet.
4. Repeat on the other side.



1. ABOUT THE BOOM! AUDIO HD-N02 BLUETOOTH HELMET

1.6 Wearing the Helmet

General
Information

Product
Details

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Contents

Ventilation

Face Shield

Wearing the
Helmet

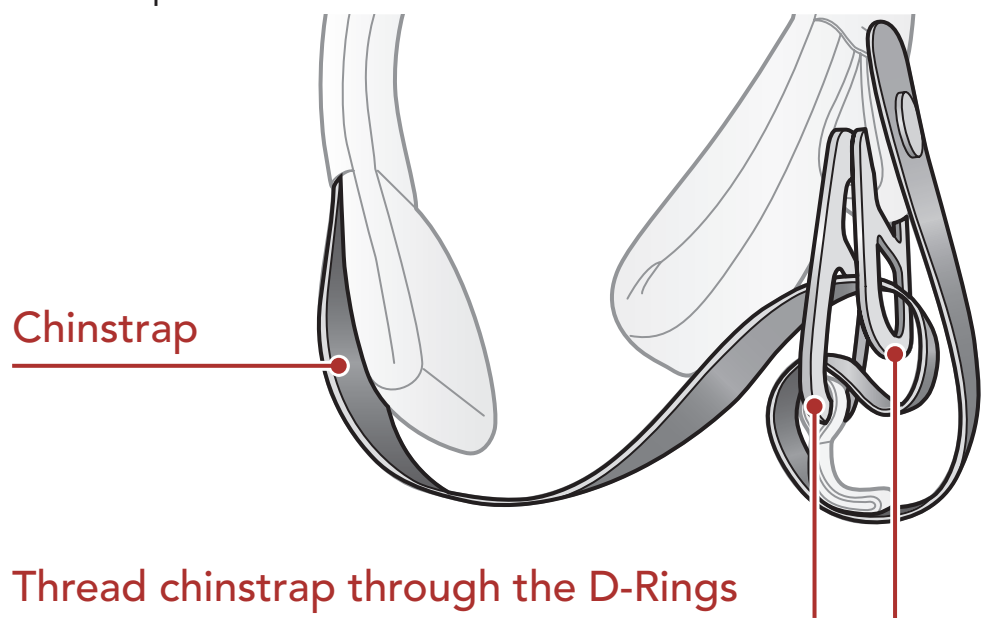
Pre-Ride
Helmet
Inspection

1.6.1 Putting on the Helmet

1. Unfasten the chinstrap.
2. Gently pull the chinstrap outward and slide the helmet onto your head.

Note: A “chinstrap” is the nylon webbing that goes through the D-Rings.

3. Route the chinstrap under your chin, then thread it through both D-Rings.
4. To fasten securely, thread chinstrap back through the D-Ring closest to your neck, and pull.



1.6.2 Removing the Helmet

1. Loosen the chinstrap by pulling the red tab attached to the D-Rings.
2. Pull the chinstrap out from within the D-rings.
3. Gently pull the padded chinstrap outward and slide the helmet off your head.

Advice: Fastening the chinstrap after removing the helmet will help avoid scratching surfaces it's placed upon.



1. ABOUT THE BOOM! AUDIO HD-N02 BLUETOOTH HELMET

1.7 Pre-Ride Helmet Inspection

General
Information

Product
Details

Package
Contents

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Face Shield

Wearing the
Helmet

Pre-Ride
Helmet
Inspection

1.7.1 Checking the Exterior

Check the helmet regularly for damage. Small, superficial scratches will not impair the helmet's protective qualities. In the case of more serious damage (cracks, dents, flaking and cracking paint, etc.), the helmet should no longer be used.

1.7.2 Checking the Chinstrap

1. Ensure that the chinstrap is properly routed under your chin.
2. To test the chinstrap tension, slip your index finger under the chinstrap and pull. If the chinstrap is loose under the chin, it needs to be tightened. If the chinstrap loosens when you pull on it, the helmet is not properly fitted. Undo the chinstrap completely and try fastening it again, then repeat the test.
3. If you are unable to fasten the chinstrap so that it fits firmly against the chin, check that your helmet is still the right size for you.

Note: Repeat the test after each adjustment.

⚠ Caution: : Never ride with the chinstrap unfastened or incorrectly adjusted. The chinstrap should fit correctly and should not become loose when pulled. The fastener is not correctly closed if the chinstrap becomes loose when pulled.



1. ABOUT THE BOOM! AUDIO HD-N02 BLUETOOTH HELMET

1.7.3 Checking the Face Shield

Before every ride, clean the face shield, check that it functions properly and that its surface is scratch- and crack-free. A malfunctioning, badly scratched or dirty shield will considerably impair your vision and should be replaced before riding.

⚠ Caution:

- A heavily scratched face shield considerably interferes with visibility and should be replaced if necessary before riding.
- Stop riding if visibility is poor.

General
Information

Product
Details

Package
Contents

Ventilation

Face Shield

Wearing the
Helmet

Pre-Ride
Helmet
Inspection



2. GETTING STARTED: BUILT-IN BLUETOOTH SYSTEM

2.1 Button Function

Button Function

Powering
On and Off

Charging

Checking the
Battery Level

Volume
Adjustment

Downloadable
Software

Configuration
Menu

Bluetooth System's Buttons

Center Button

- Answer/End Phone Call
- Reject an Incoming Phone Call
- Start/End Intercom Conversation
- Play/Pause Music
- Enter Voice Configuration Settings

(+) Button

- Increase Volume
- Track Forward
- Scan Radio Stations
- Speed Dial

Blue/Red/Green
LED Lights

(-) Button

- Decrease Volume
- Track Back
- FM Radio On/Off

Mesh Intercom Button

- Mesh Intercom On/Off
- Create Mesh Intercom
- Join Existing Mesh
- Accept Participant
- Reject Participant



2. GETTING STARTED: BUILT-IN BLUETOOTH SYSTEM

2.2 Powering On and Off

Button Function

Powering
On and Off

Charging

Checking the
Battery Level

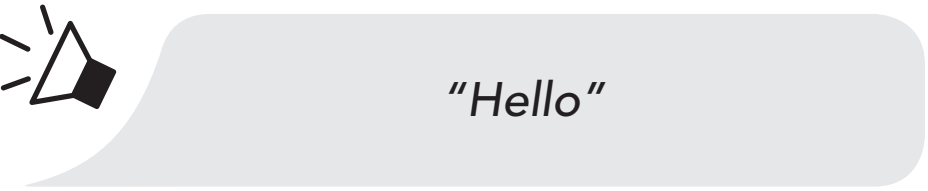
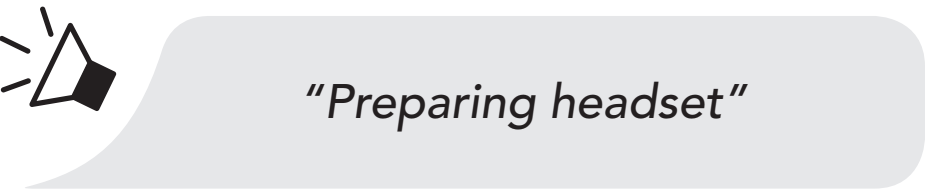
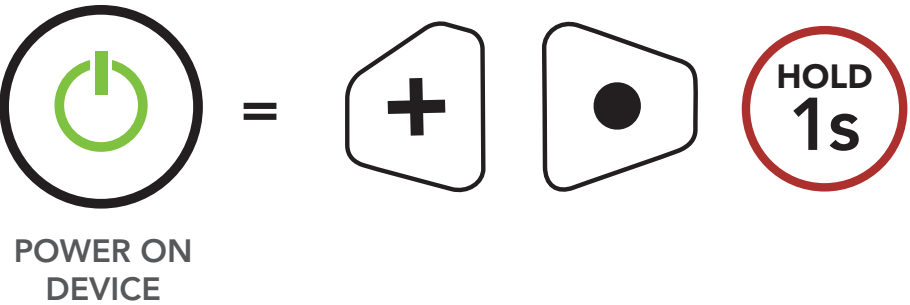
Volume
Adjustment

Downloadable
Software

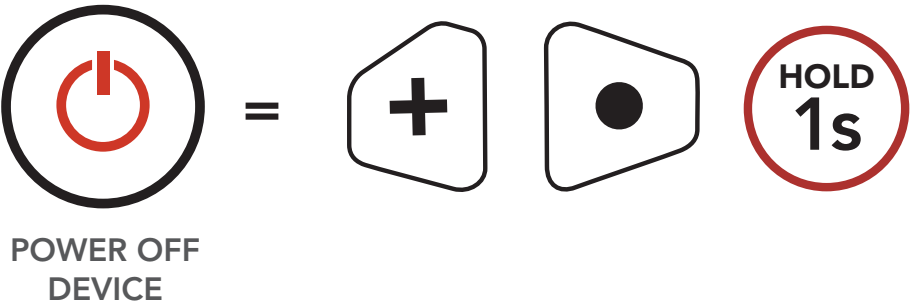
Configuration
Menu

Press and hold the **Center Button** and the **(+)** **Button** at the same time for **1 second** to turn the helmet on or off.

Powering On



Powering Off



Note: If the Voice Command setting is disabled, the **"Hello"** voice prompt will be heard instantly after powering on the Bluetooth system. Please refer to **Section 10: "Voice Command"** for more details.



2. GETTING STARTED: BUILT-IN BLUETOOTH SYSTEM

2.3 Charging

Button Function

Powering
On and Off

Charging

Checking the
Battery Level

Volume
Adjustment

Downloadable
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The Bluetooth system can be charged using many common methods via the supplied USB power & data cable:

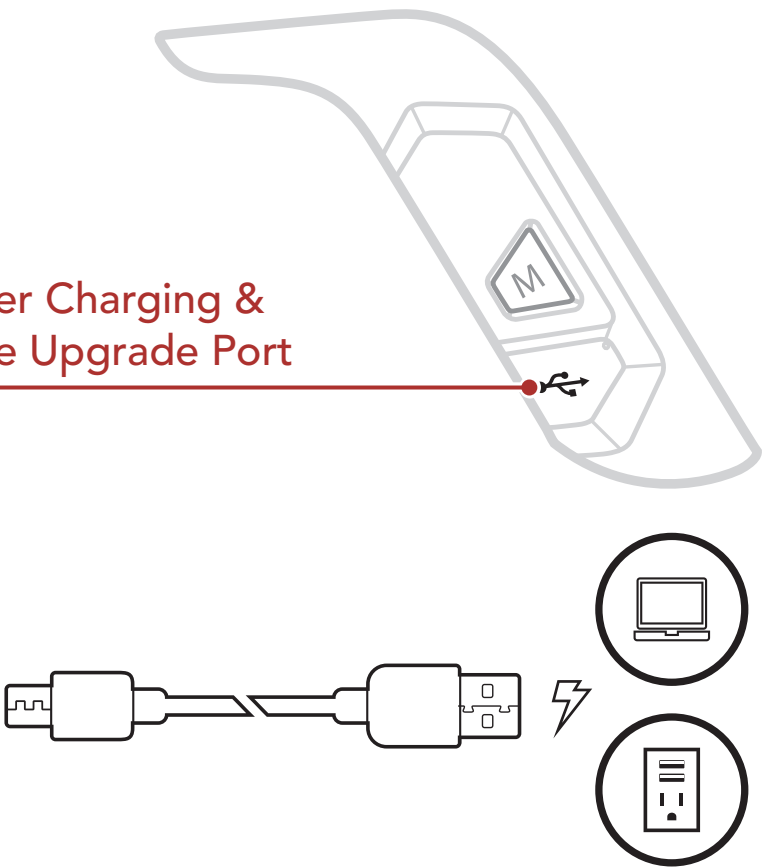
1. Plugged into a computer's USB port.
2. With a USB-equipped AC adapter via a wall-outlet charger. (not included)

Note:

- Please make sure to take off your helmet while charging. The Bluetooth system automatically turns off during charging.
- Any 3rd party USB charger can be used with Harley-Davidson products if the charger is approved by either the FCC, CE, IC or other locally approved agencies that Harley-Davidson accepts.

Charging the Bluetooth System

DC Power Charging &
Firmware Upgrade Port



Depending upon the charging method, the Bluetooth system will be fully charged in about 1.5 hours.



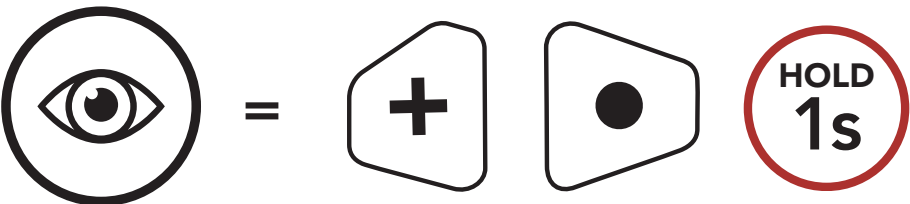
2. GETTING STARTED: BUILT-IN BLUETOOTH SYSTEM

2.4 Checking the Battery Level

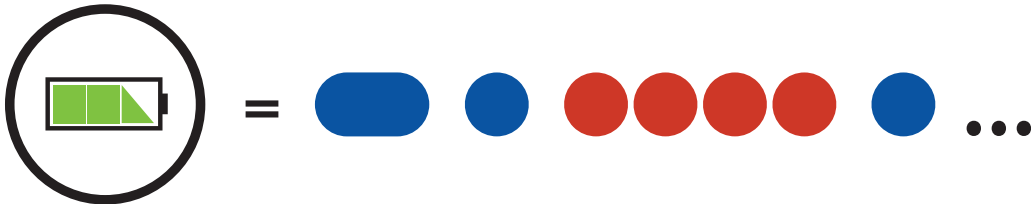
There are two ways to check battery level:

- 1. Visually, with LEDs when powering on.

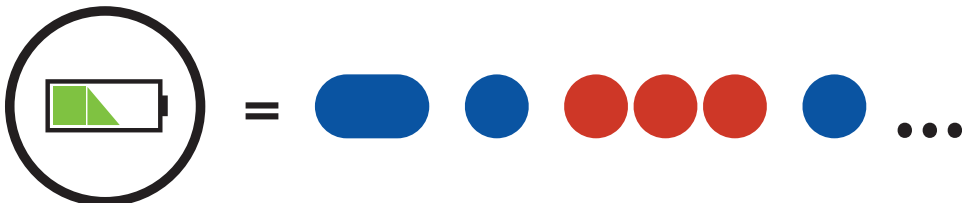
Battery Level - Visual Method



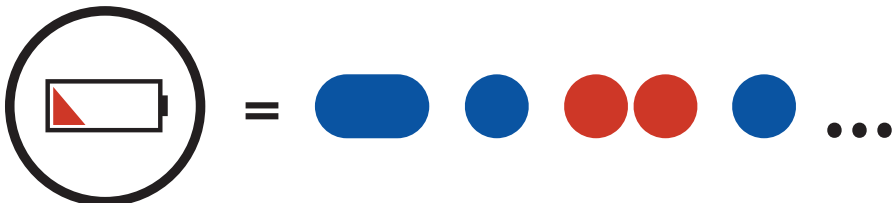
VISUAL
METHOD



HIGH



MEDIUM



LOW

Button Function

Powering
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Battery Level

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2. GETTING STARTED: BUILT-IN BLUETOOTH SYSTEM

Button Function

Powering
On and Off

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Checking the
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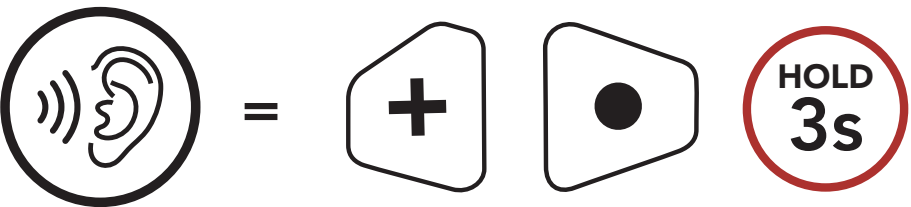
Volume
Adjustment

Downloadable
Software

Configuration
Menu

2. Audible method: press and hold the **Center Button** and the **(+) Button** for **more than 3 seconds** as the Bluetooth system powers on. A prompt will announce the remaining battery level.

Audible Method



AUDIBLE
METHOD



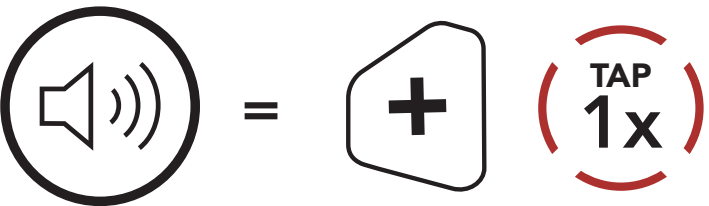
*"Battery level
high/medium/low"*

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

2.5 Volume Adjustment

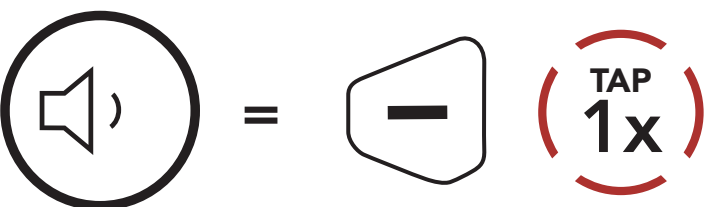
You can raise or lower the volume by tapping the **(+) Button** or the **(-) Button**. Volume is set and maintained independently at different levels for each audio source (i.e. phone, intercom), even when the Bluetooth system is rebooted.

Volume up



VOLUME UP

Volume down



VOLUME
DOWN



2. GETTING STARTED: BUILT-IN BLUETOOTH SYSTEM

2.6 Downloadable Software

2.6.1 Boom Audio Bluetooth Device Manager

The **Boom Audio Bluetooth Device Manager** allows you to upgrade the firmware and configure its settings directly from your PC or Apple computer. Using this software, you can assign speed dial presets, FM radio station presets and more. For more information on downloading the **Boom Audio Bluetooth Device Manager**, please visit oem.sena.com/harley-davidson.

Click Here to Visit
oem.sena.com/harley-davidson

2.6.2 Sena Smartphone App

The **Sena Smartphone App** allows you to configure the settings, as well as access the User's Guide and Quick Start Guides. To do so, pair your mobile phone with your Bluetooth system (please refer to **Section 3: "Pairing the Bluetooth System with other Bluetooth Devices"** for more details). Run the **Sena Smartphone App** and configure the settings directly from your smartphone. You can download the **Sena Smartphone App** for Android and Apple operating systems from oem.sena.com/harley-davidson.



Download on the
App Store



GET IT ON
Google Play

Button Function

Powering
On and Off

Charging

Checking the
Battery Level

Volume
Adjustment

Downloadable
Software

Configuration
Menu



2. GETTING STARTED: BUILT-IN BLUETOOTH SYSTEM

Software Configuration Menu

Button Function

Powering
On and Off

Charging

Checking the
Battery Level

Volume
Adjustment

Downloadable
Software

Configuration
Menu

Configuration Setting	Enabled/Disabled or Execute
Speed Dial	Execute
Intercom-Audio Overlay Sensitivity	Execute
Audio Overlay Volume Management	Enabled/Disabled
Audio Boost	Enabled/Disabled
Smart Volume Control	Enabled/Disabled
VOX Phone	Enabled/Disabled
VOX Intercom	Enabled/Disabled
HD Intercom	Enabled/Disabled
Intercom VOX Sensitivity	Execute
Voice Prompt	Enabled/Disabled
Voice Command	Enabled/Disabled
RDS AF Setting	Enabled/Disabled
FM Station Guide	Enabled/Disabled
Sidetone	Enabled/Disabled
Advanced Noise Control	Enabled/Disabled
Guest Mode	Enabled/Disabled



2. GETTING STARTED: BUILT-IN BLUETOOTH SYSTEM

2.7 Configuration Menu

Button Function

Powering
On and Off

Charging

Checking the
Battery Level

Volume
Adjustment

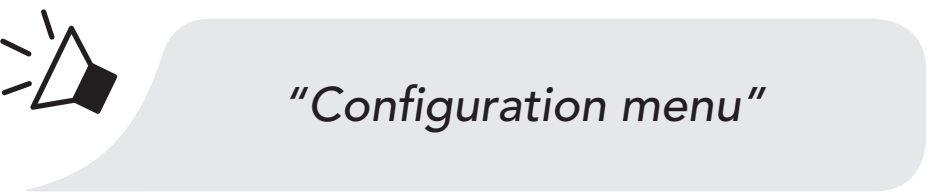
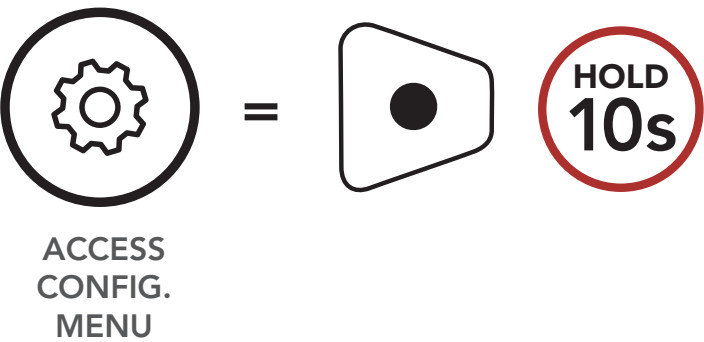
Downloadable
Software

Configuration
Menu

The Bluetooth system can be configured by following a series of voice prompts. Further details about each of these settings will be explained on the following pages.

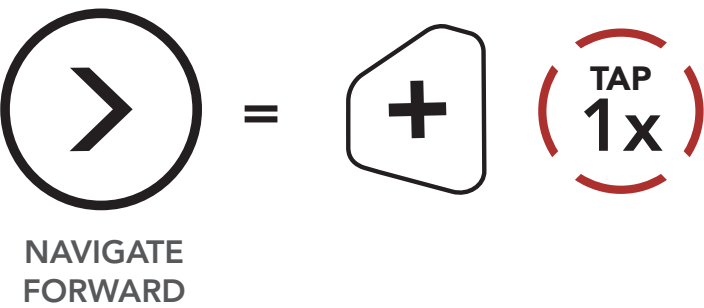
1. To access the **Configuration Menu**, press and hold the **Center Button** for **10 seconds** until you hear the voice prompt, **"Configuration menu"**.

Accessing the Configuration Menu



2. Tap the **(+) Button** or the **(-) Button** to navigate between the menus, You will hear voice prompts for each menu item. The list of functions is shown in the **Bluetooth System Configuration Menu**.

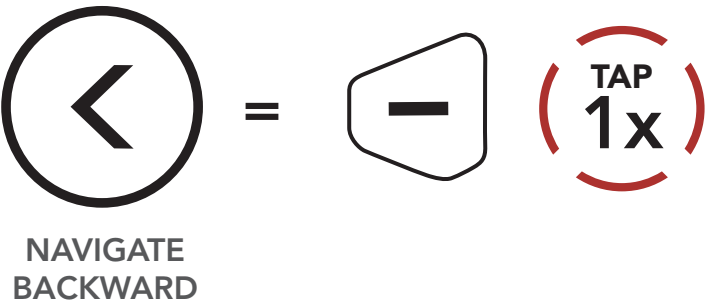
Navigating Forward through the Menu





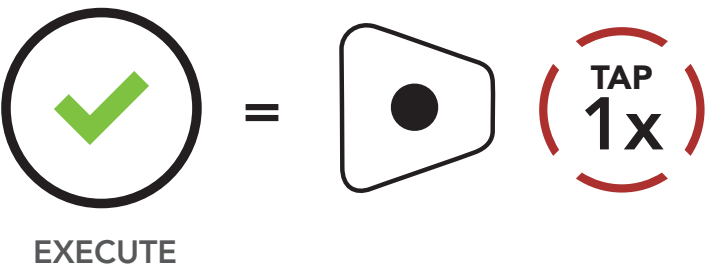
2. GETTING STARTED: BUILT-IN BLUETOOTH SYSTEM

Navigating Backward through the Menu



3. You can execute the command by tapping the **Center Button**.

Execute a Menu Options



Button Function

Powering
On and Off

Charging

Checking the
Battery Level

Volume
Adjustment

Downloadable
Software

Configuration
Menu



2. GETTING STARTED: BUILT-IN BLUETOOTH SYSTEM

Bluetooth System Configuration Menu

Button Function

Powering
On and Off





















Charging

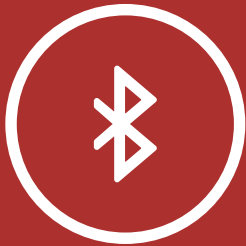
Checking the
Battery Level

Volume
Adjustment

Downloadable
Software

Configuration
Menu

Tap the (+) Button or (-) Button a specified number of times		Tap the Center Button	
		Phone Pairing	-
		Second Mobile Phone Pairing	-
		GPS Pairing	-
		Phone Selective Pairing	-
		Media Selective Pairing	-
		Delete All Pairings	Execute
		Remote Control Pairing	Execute
		Universal Intercom Pairing	Execute
		Factory Reset	Execute
		Exit Configuration	Execute



3. PAIRING THE BLUETOOTH SYSTEM WITH OTHER BLUETOOTH DEVICES

Mobile Phone

Pairing with the H-D WHIM Wireless Headset Interface Module

Additional Mobile Phones, MP3 Player

Advanced Selective Pairing: Hands-Free or A2DP Stereo

GPS Pairing

Before using Boom! Audio HD-N02’s Bluetooth system with other Bluetooth devices for the first time, they’ll need to be “paired”. This enables them to recognize and communicate with one another whenever they’re within range.

The Bluetooth system can pair with multiple Bluetooth devices such as mobile phone, MP3 player or GPS via **Mobile Phone Pairing**, **Second Mobile Phone Pairing** and **GPS Pairing**. The Bluetooth system can also be paired with up to three other Boom! Audio headsets or Bluetooth systems.

Pairs with up to three Boom! Audio Headsets



Also pairs with:



Mobile Phone

MP3 Player

GPS Devices

Note: Bluetooth Specifications: Bluetooth 2.4 ~ 2.48 GHz / max. output power 0.1W



3. PAIRING THE BLUETOOTH SYSTEM WITH OTHER BLUETOOTH DEVICES



3.1 Mobile Phone

Mobile Phone

Pairing with the H-D WHIM Wireless Headset Interface Module

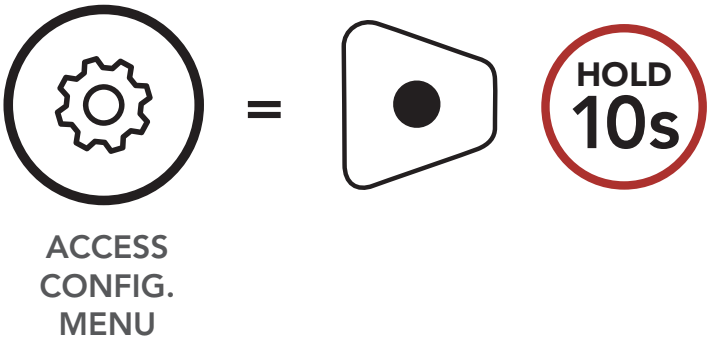
Additional Mobile Phones, MP3 Player

Advanced Selective Pairing: Hands-Free or A2DP Stereo

GPS Pairing

- 1. Execute **Phone Pairing** in the **Bluetooth System Configuration Menu**.

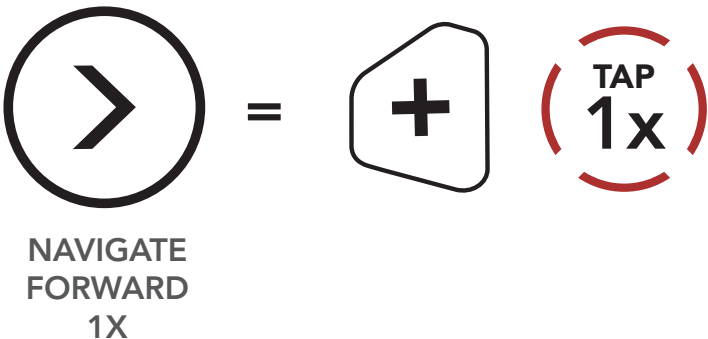
Access Phone Pairing in the Configuration Menu



ACCESS CONFIG. MENU



"Configuration menu"



NAVIGATE FORWARD 1X



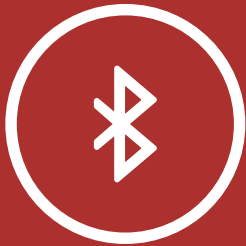
"Phone pairing"



LED STATUS

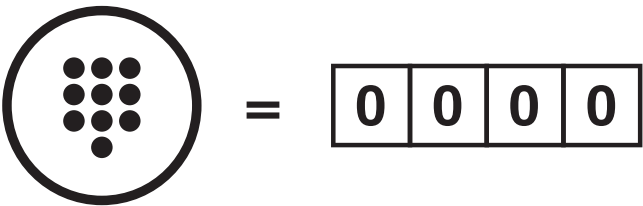
= Alternating blue and red flashing lights indicate **device is now discoverable**.

- 2. With your mobile phone in Bluetooth-pairing mode, select Boom! Audio HD-N02 in the list of devices detected.



3. PAIRING THE BLUETOOTH SYSTEM WITH OTHER BLUETOOTH DEVICES

3. If your mobile phone asks for a PIN, enter 0000.



PIN NUMBER

Mobile Phone

Pairing with the H-D WHIM Wireless Headset Interface Module

Additional Mobile Phones, MP3 Player

Advanced Selective Pairing: Hands-Free or A2DP Stereo

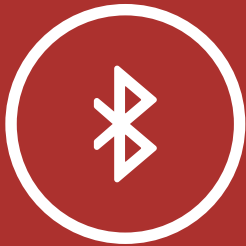
GPS Pairing

3.2 Pairing with the H-D WHIM Wireless Headset Interface Module

The H-D WHIM built-in Boom! Box is a Wireless Headset Interface for group communication. You can pair the Bluetooth system with an H-D WHIM built-in Boom! Box by mobile phone pairing.

1. To enter the voice configuration menu, press and hold the **Center Button** for **10 seconds** until you hear the voice prompt, **"Configuration menu"**.
2. Press the **(+) Button** and you will hear the voice prompt, **"Phone pairing"**.
3. Turn on the Boom! Box system and follow the **"Wireless Headset Setup"** procedure to complete the process. Please refer to the Boom! Box Owner's Manual for details.
4. When the pairing is completed, you will hear the voice prompt, **"Your headset is paired"**.
5. If the pairing process is not completed within three minutes, the Bluetooth system will return to stand-by mode.

The H-D WHIM built-in Boom! Box can be connected to the rider and the passenger's Bluetooth system. Also, the H-D WHIM built-in Boom! Box can be connected to the rider's mobile phone. The rider's Bluetooth system should be paired first followed by the passenger's. Please refer to the Boom! Box Owner's Manual for details. You can listen to music, answer a mobile call, and have an intercom conversation via the H-D WHIM built-in Boom! Box for group communication as shown in the figure.



3. PAIRING THE BLUETOOTH SYSTEM WITH OTHER BLUETOOTH DEVICES

Parallel Connection of H-D WHIM built-in Boom! Box and Mobile Phone by Mobile Phone Pairing

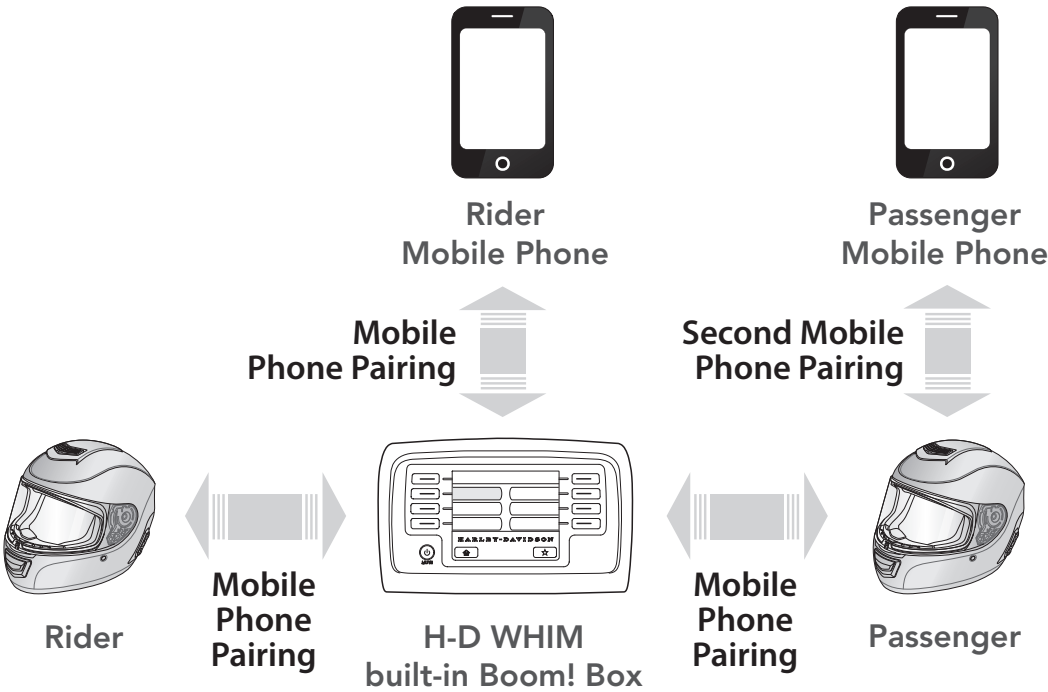
Mobile Phone

Pairing with the H-D WHIM Wireless Headset Interface Module

Additional Mobile Phones, MP3 Player

Advanced Selective Pairing: Hands-Free or A2DP Stereo

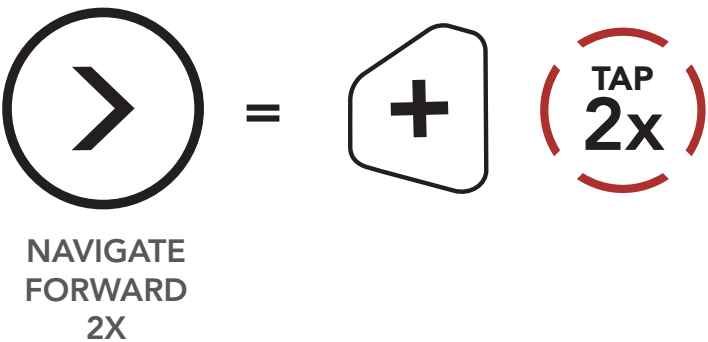
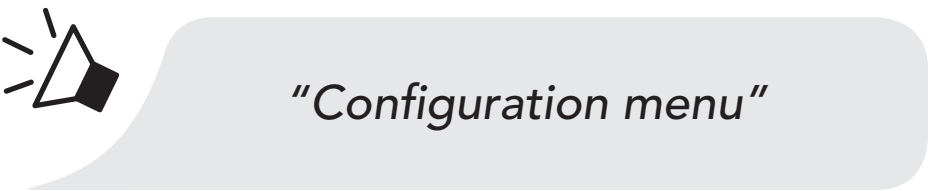
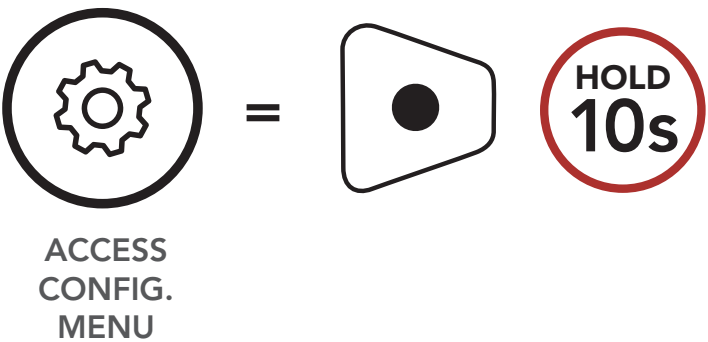
GPS Pairing



3.3 Additional Mobile Phones, MP3 Player

1. Execute **Second Mobile Phone Pairing** in the **Bluetooth System Configuration Menu**.

Access Second Mobile Phone Pairing in the Configuration Menu





3. PAIRING THE BLUETOOTH SYSTEM WITH OTHER BLUETOOTH DEVICES

Mobile Phone



"Second mobile phone pairing"

Pairing with the H-D WHIM Wireless Headset Interface Module

Additional Mobile Phones, MP3 Player

Advanced Selective Pairing: Hands-Free or A2DP Stereo

GPS Pairing

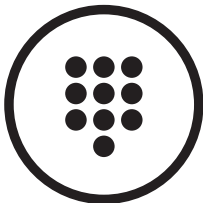


BLUETOOTH LED STATUS

=

Blue flashing lights indicates device is now discoverable.

- 2. With your mobile phone in Bluetooth-pairing mode, select Boom! Audio HD-N02 in the list of devices detected.
- 3. If your mobile phone asks for a PIN, enter 0000.



PIN NUMBER

=

0 0 0 0

3.4 Advanced Selective Pairing: Hands-Free or A2DP Stereo

Phone Pairing allows the Bluetooth system to establish two bluetooth profiles: **Hands-Free** or **A2DP Stereo**. **Advanced Selective Pairing** allows the Bluetooth system to separate the profiles to enable connection with two devices.

3.4.1 Phone Selective Pairing- Hands-Free Profile

- 1. Execute **Phone Selective Pairing** in the **Bluetooth System Configuration Menu**.



3. PAIRING THE BLUETOOTH SYSTEM WITH OTHER BLUETOOTH DEVICES



Mobile Phone

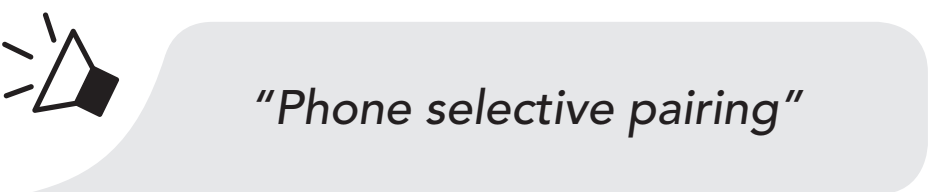
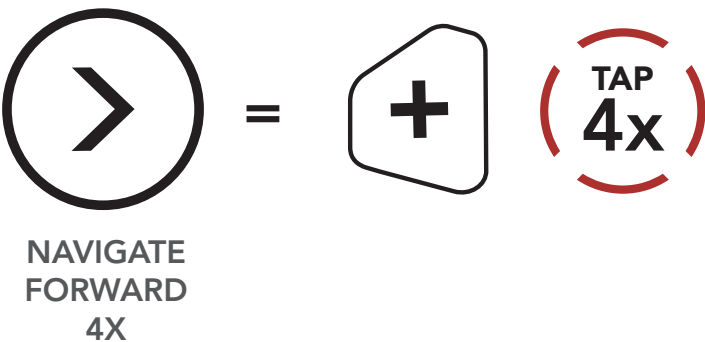
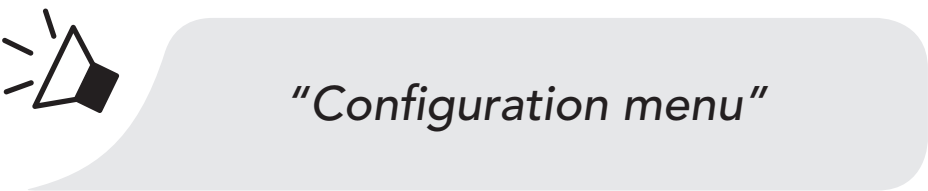
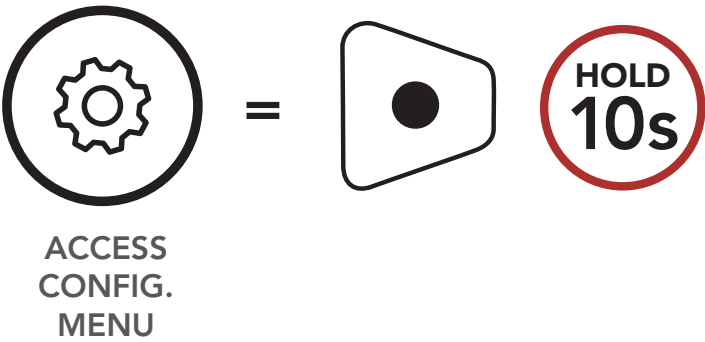
Pairing with the H-D WHIM Wireless Headset Interface Module

Additional Mobile Phones, MP3 Player

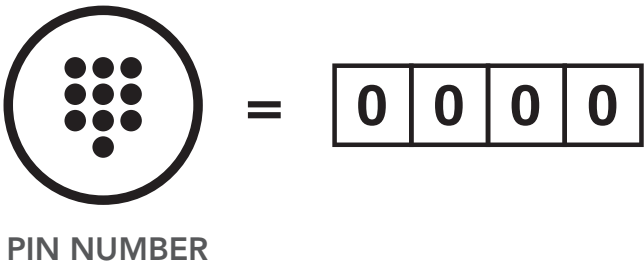
Advanced Selective Pairing: Hands-Free or A2DP Stereo

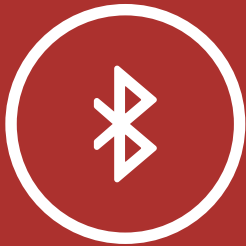
GPS Pairing

Access Phone Selective Pairing in the Configuration Menu



- 2. With your hands-free device in Bluetooth-Pairing mode, select Boom! Audio HD-N02 in the list of devices detected.
- 3. If it asks for a PIN, enter 0000.





3. PAIRING THE BLUETOOTH SYSTEM WITH OTHER BLUETOOTH DEVICES



Mobile Phone

Pairing with the H-D WHIM Wireless Headset Interface Module

Additional Mobile Phones, MP3 Player

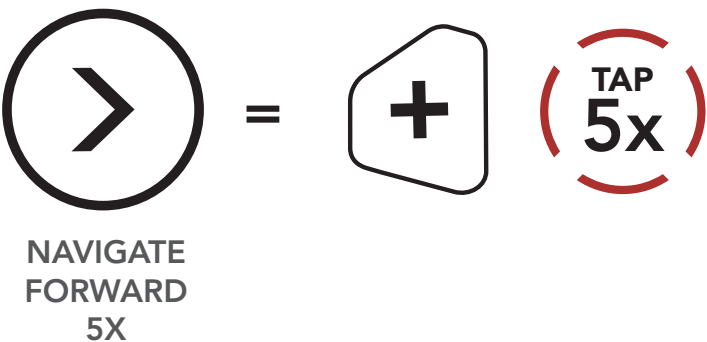
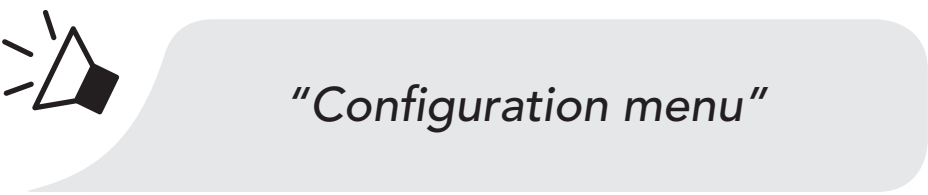
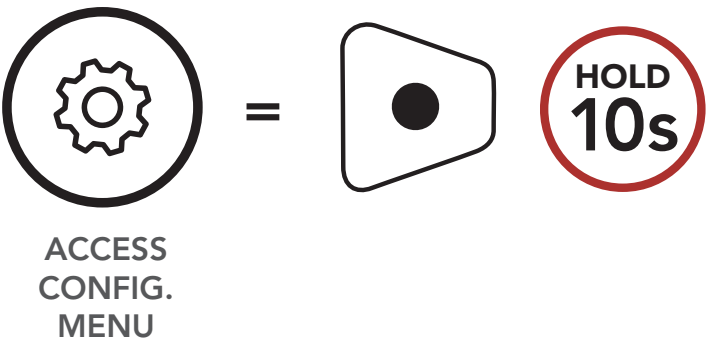
Advanced Selective Pairing: Hands-Free or A2DP Stereo

GPS Pairing

3.4.2 Media Selective Pairing- A2DP Profile

1. Execute **Media Selective Pairing** in the **Bluetooth System Configuration Menu**.

Access Media Selective Pairing in the Configuration Menu

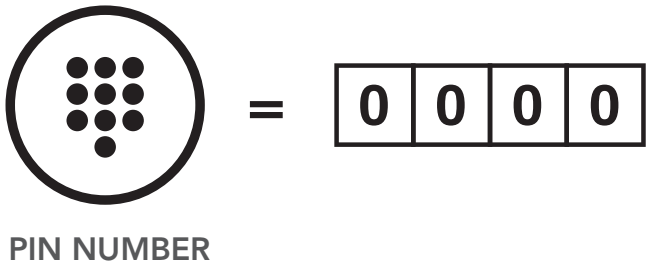


2. With your A2DP device in Bluetooth-pairing mode, select Boom! Audio HD-N02 in the list of the devices detected.



3. PAIRING THE BLUETOOTH SYSTEM WITH OTHER BLUETOOTH DEVICES

3. If it asks for a PIN, enter 0000.



Mobile Phone

Pairing with the H-D WHIM Wireless Headset Interface Module

Additional Mobile Phones, MP3 Player

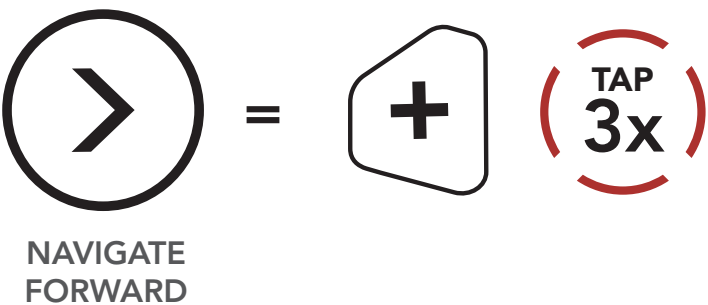
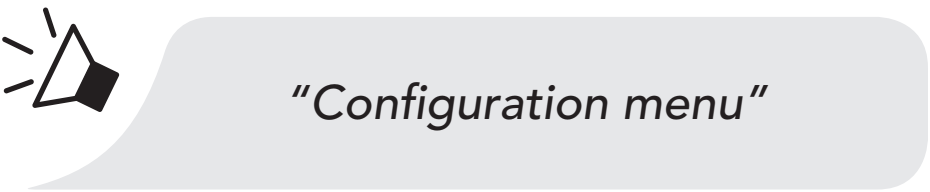
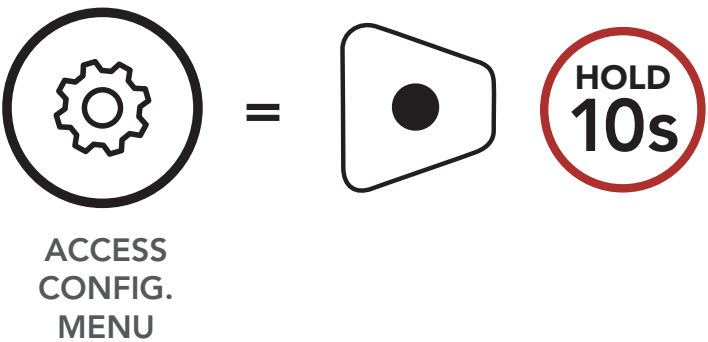
Advanced Selective Pairing: Hands-Free or A2DP Stereo

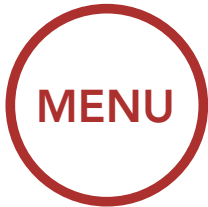
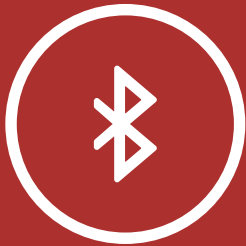
GPS Pairing

3.5 GPS Pairing

1. Execute **GPS Pairing** in the **Bluetooth System Configuration Menu**.

Access GPS Pairing in the Configuration Menu





3. PAIRING THE BLUETOOTH SYSTEM WITH OTHER BLUETOOTH DEVICES

Mobile Phone

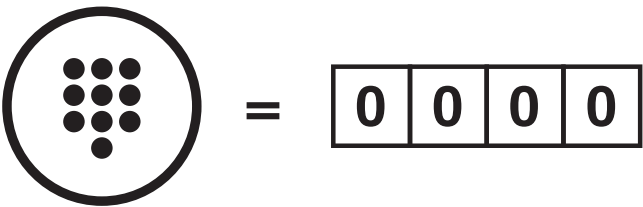
Pairing with the H-D WHIM Wireless Headset Interface Module

Additional Mobile Phones, MP3 Player

Advanced Selective Pairing: Hands-Free or A2DP Stereo

GPS Pairing

- 2. With your Bluetooth device on the GPS navigation screen, select Boom! Audio HD-N02 in the list of devices detected.
- 3. If your Bluetooth device asks for a PIN, Enter 0000.



PIN NUMBER

Note: If you pair your GPS device via GPS Pairing, its instructions will not interrupt your intercom conversations, but overlay with them. Bluetooth intercom conversations will be interrupted by GPS instructions.



4. MOBILE PHONE USAGE

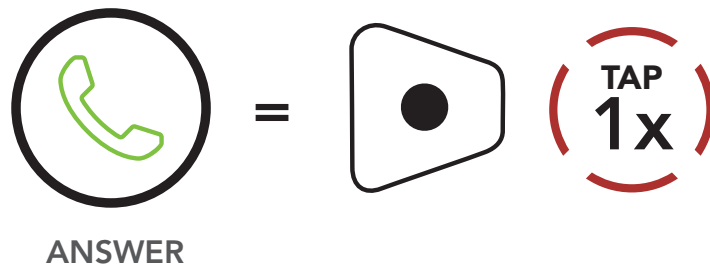
4.1 Making and Answering Calls

Making and
Answering
Calls

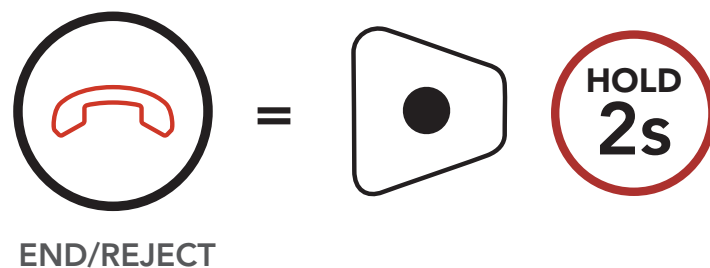
Speed Dialing

VOX Phone

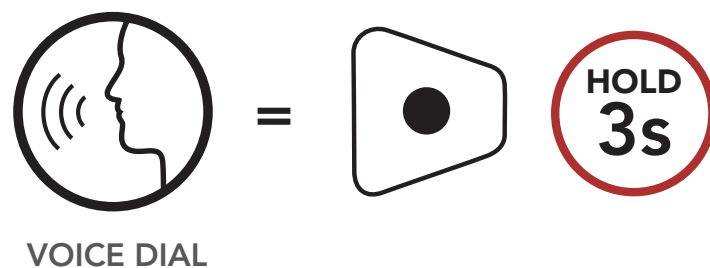
Answer a Call



End/Reject a Call



Make a Call with Voice Dialer



Note: If you have a GPS device connected, you will not hear its voice navigation during a phone call.

4.2 Speed Dialing

4.2.1 Assigning Speed Dial Presets

Speed Dial Presets could be assigned in the settings menu, accessible through **Boom Audio Bluetooth Device Manager** or **Sena Smartphone App**.

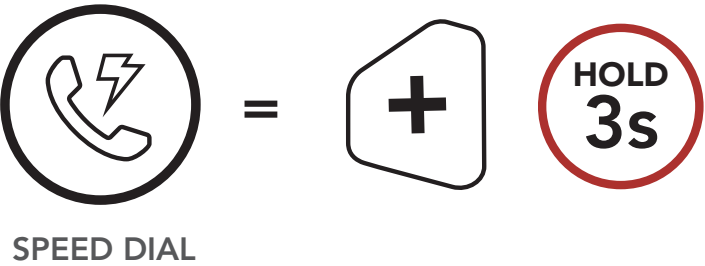


4. MOBILE PHONE USAGE

4.2.2 Using Speed Dial Presets

1. Press and hold the **(+) Button** for **3 seconds** to enter into the **Speed Dial** menu.

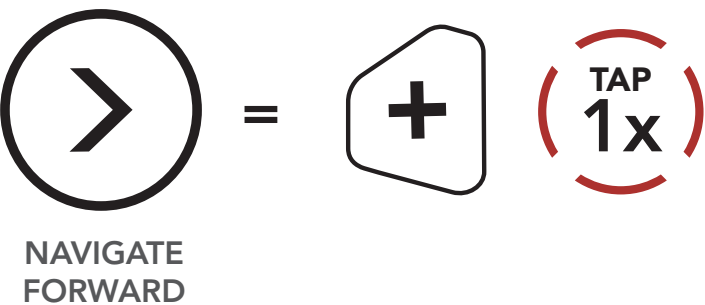
Enter Speed Dial Mode



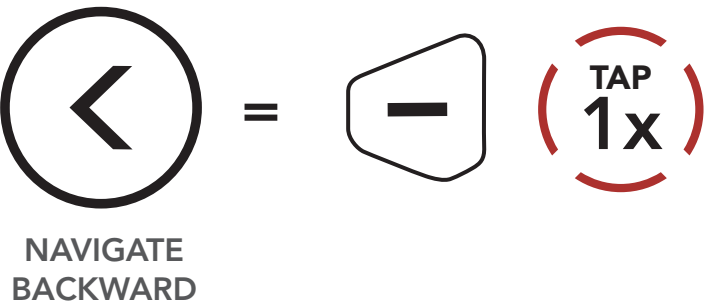
"Speed Dial"

2. Tap the **(+) Button** or the **(-) Button** to navigate between the **Speed Dial Presets**.

Navigate Forward through Speed Dial Preset Numbers



Navigate Backward through Speed Dial Preset Numbers

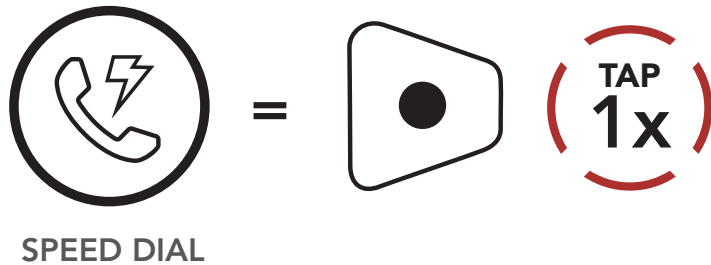


3. To call one of your **Speed Dial Presets**, tap the **Center Button** when you hear the prompt, **"Speed Dial (#)"**.



4. MOBILE PHONE USAGE

Call a Speed Dial Preset Number



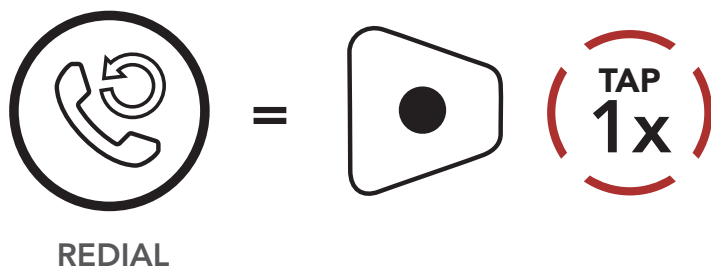
SPEED DIAL



"Speed dial (#)"

4. To redial the last number called, tap the **Center Button** when you hear the prompt, **"Last number redial"**.

Redial Last Number



REDIAL



"Last number redial"

4.3 VOX Phone (Default: Enabled)

An **VOX Phone** setting can be found in the settings menu, accessible through **Boom Audio Bluetooth Device Manager** or **Sena Smartphone App**.

With **VOX Phone** enabled, you can answer incoming calls by simply saying a word loudly enough, unless you are connected to intercom. For example, when you hear a series of beeps for an incoming call, you can answer the phone by saying **"Hello"** or any other word loudly. If this mode is disabled, you have to tap the **Center Button** to answer an incoming call.



5. STEREO MUSIC

5.1 Playing Music with Bluetooth Devices

Playing Music with Bluetooth Devices

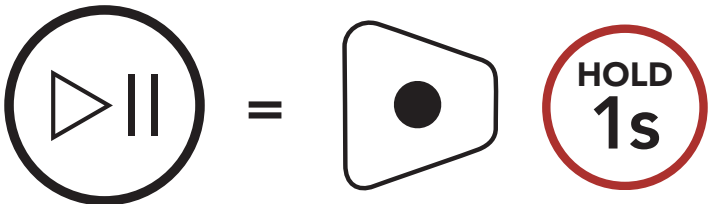
Music Sharing

Audio Boost

Smart Volume Control

- 1. To play or pause music, press and hold the **Center Button** for **1 second** until you hear a double beep.

Play/Pause Music



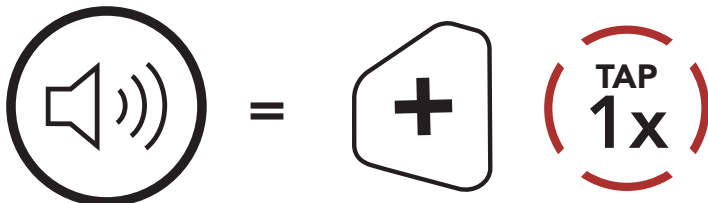
PLAY/PAUSE



“[Beep, Beep]”

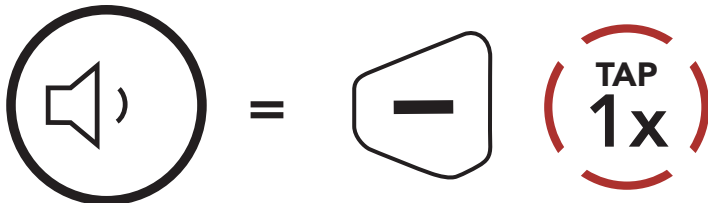
- 2. To adjust the volume, tap the **(+) Button** or the **(-) Button**.

Volume Up



VOLUME UP

Volume Down



VOLUME DOWN



5. STEREO MUSIC

3. To track forward or back, press and hold the **(+)** **Button** or the **(-)** **Button** for **1 second**.

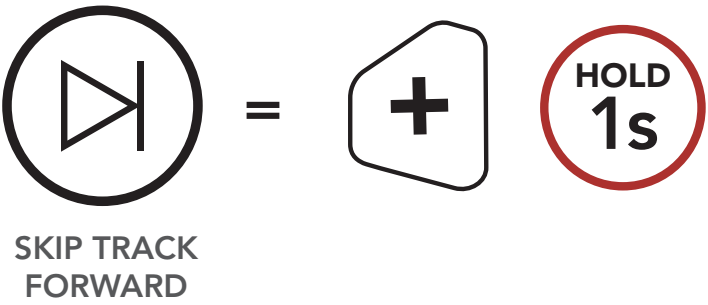
Playing
Music with
Bluetooth
Devices

Music Sharing

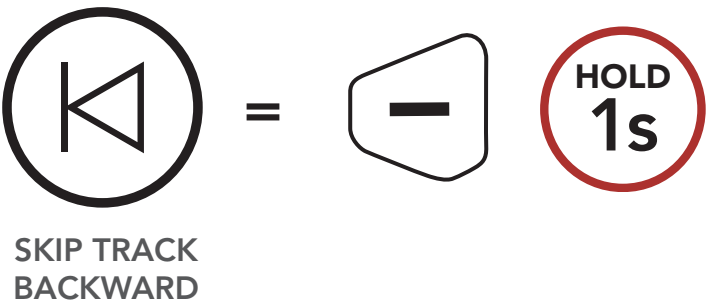
Audio Boost

Smart Volume
Control

Track Forward



Track Backward



5.2 Music Sharing

You can start sharing music with one intercom friend using Bluetooth stereo music during a two-way intercom conversation and one participant of a Mesh. Both you and your intercom friend can remotely control music playback such as track forward and track back. If you start sharing music while Bluetooth intercom and Mesh Intercom are running at the same time, then music shared during Bluetooth intercom will take priority over music shared during Mesh Intercom. The Creator will send a request message to a headset connected during Mesh Intercom and will share music with the first participant that accepts the request.



5. STEREO MUSIC

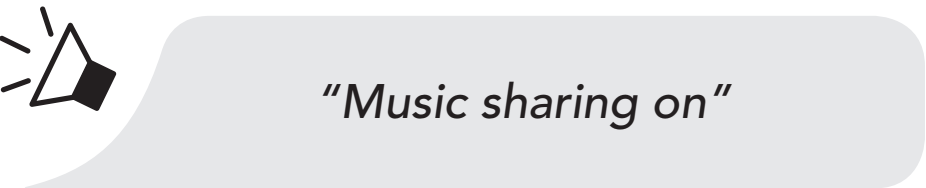
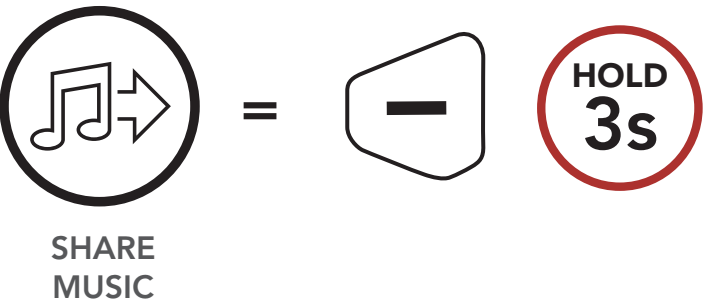
Bluetooth Intercom Music Sharing

Playing Music with Bluetooth Devices

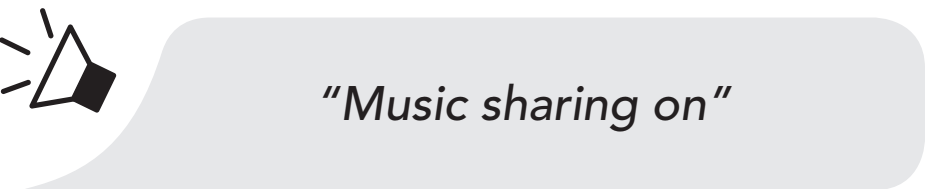
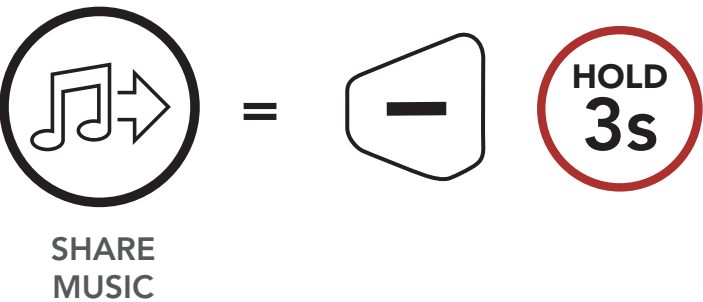
Music Sharing

Audio Boost

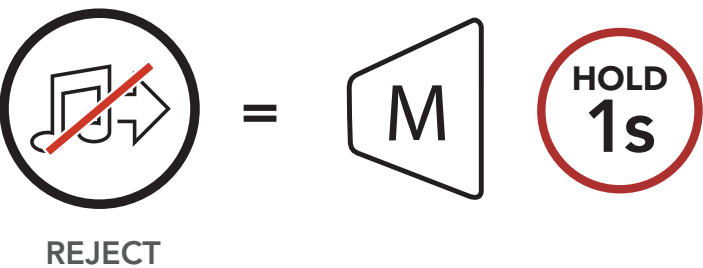
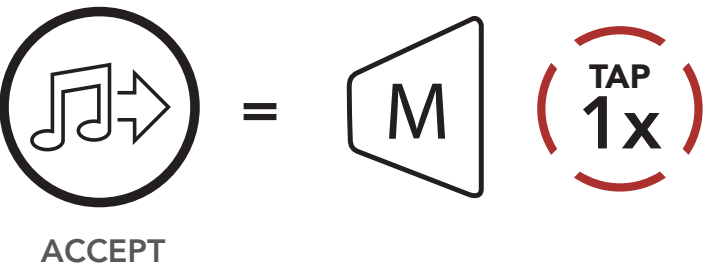
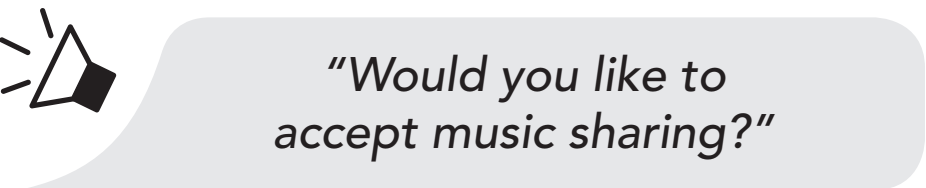
Smart Volume Control



Mesh Intercom Music Sharing [Creator]



[Participant]





5. STEREO MUSIC

5.3 Audio Boost (Default: Disabled)

Playing
Music with
Bluetooth
Devices

An **Audio Boost** setting can be found in the settings menu, accessible through **Boom Audio Bluetooth Device Manager** or **Sena Smartphone App**.

Music Sharing

Audio Boost

Enabling **Audio Boost** increases the maximum volume limit. Disabling **Audio Boost** reduces the maximum volume limit while delivering more balanced sound.

Smart Volume
Control

5.4 Smart Volume Control (Default: Disabled)

A **Smart Volume Control** setting can be found in the settings menu, accessible through **Boom Audio Bluetooth Device Manager** or **Sena Smartphone App**.

Enabling **Smart Volume Control** automatically changes the level of the speaker volume based on the level of the environment noise. You can enable it by setting the sensitivity to low, medium or high.

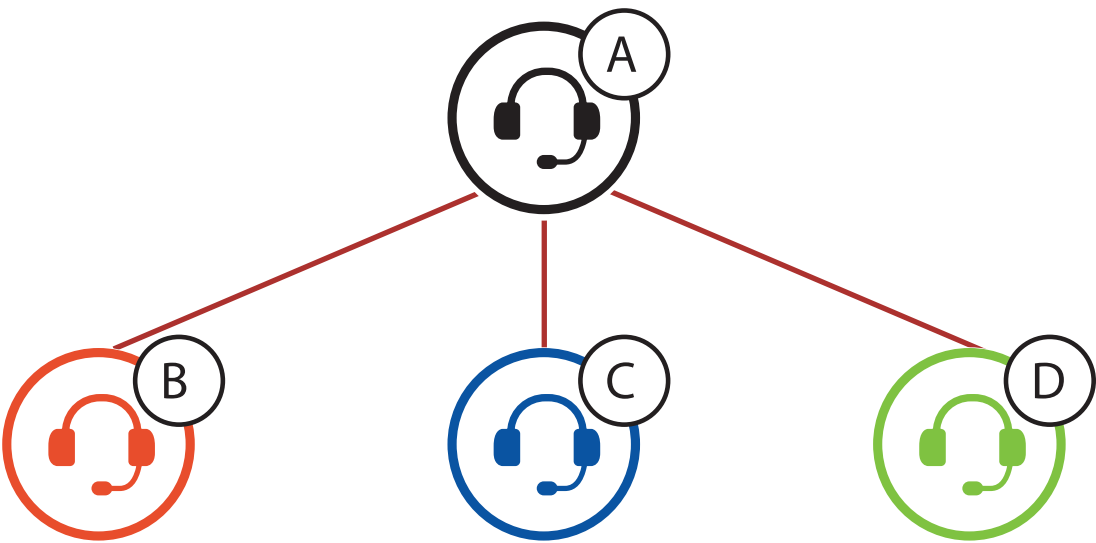


6. BLUETOOTH INTERCOM SETUP

6.1 Intercom Pairing

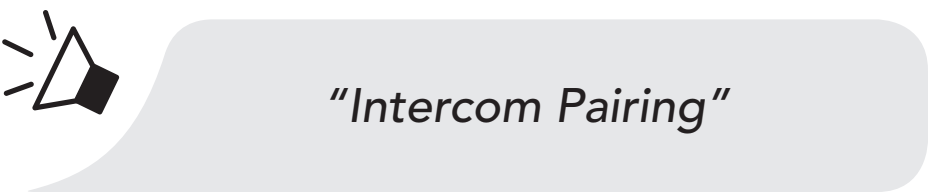
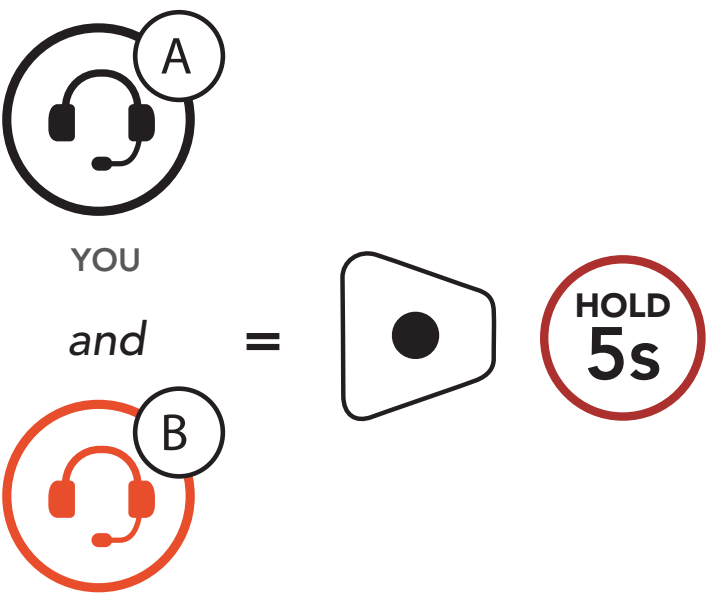
Up to three people can communicate via intercom with the helmet simply by pairing their Bluetooth systems.

Pairing with Intercom Friends



1. Press and hold the **Center Button** of two Bluetooth systems for **5 seconds** until you hear the voice prompt, **"Intercom pairing"**.

Pairing with Intercom B



Intercom Pairing

Two-Way Intercom

Multi-Way Intercom

Three-Way Conference Phone Call with Intercom Users

Group Intercom

Universal Intercom

VOX Intercom

Intercom VOX Sensitivity

HD Intercom

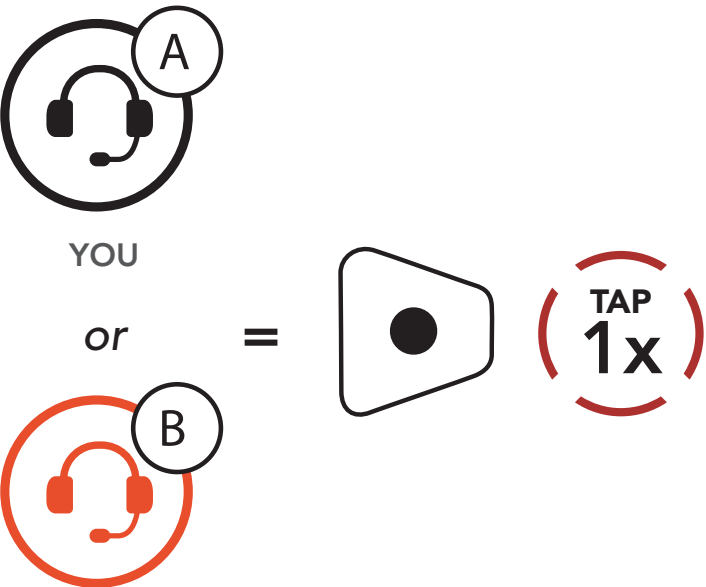
Advanced Noise Control™



6. BLUETOOTH INTERCOM SETUP

2. Tap the **Center Button** on either Bluetooth system and wait until the LEDs of both turn blue.

On Either One of the Devices



Intercom Pairing

Two-Way Intercom

Multi-Way Intercom

Three-Way Conference Phone Call with Intercom Users

Group Intercom

Universal Intercom

VOX Intercom

Intercom VOX Sensitivity

HD Intercom

Advanced Noise Control™



6. BLUETOOTH INTERCOM SETUP

3. Repeat steps 1 and 2 to pair with **Intercom Friends C & D**.

Intercom Pairing

Two-Way Intercom

Multi-Way Intercom

Three-Way Conference Phone Call with Intercom Users

Group Intercom

Universal Intercom

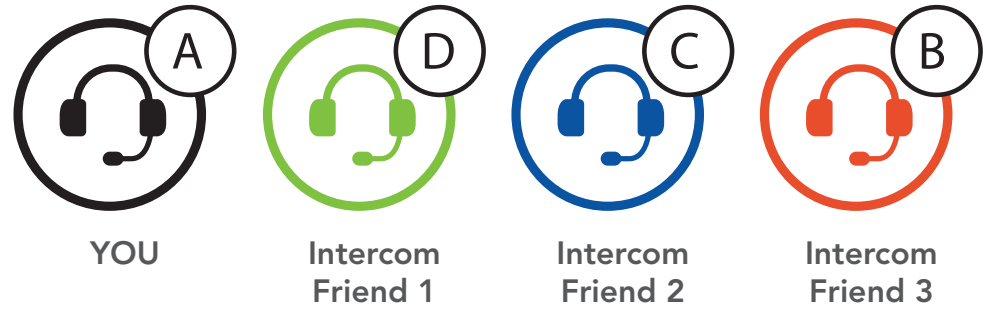
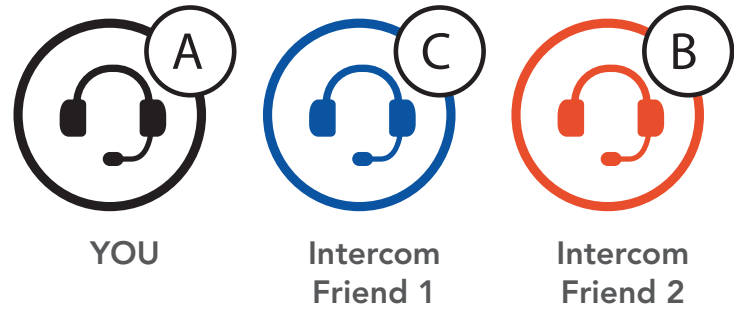
VOX Intercom

Intercom VOX Sensitivity

HD Intercom

Advanced Noise Control™

Last-Come, First-Served





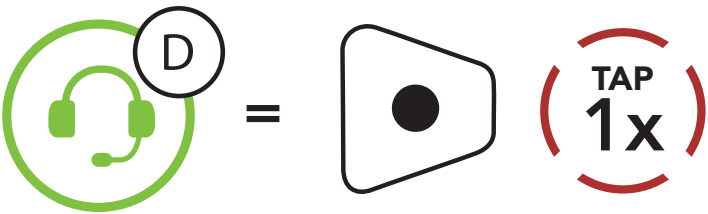
6. BLUETOOTH INTERCOM SETUP

6.2 Two-Way Intercom

You can start or end an intercom conversation with an Intercom Friend by tapping the **Center Button**.

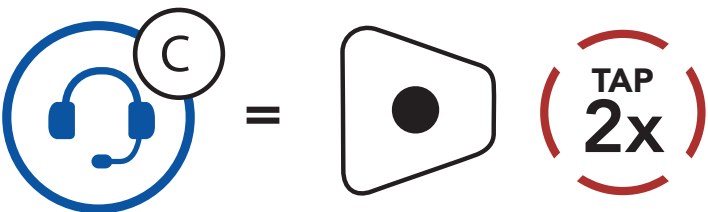
1. Tap once for Intercom **Friend 1**.

Start/End with Intercom Friend 1



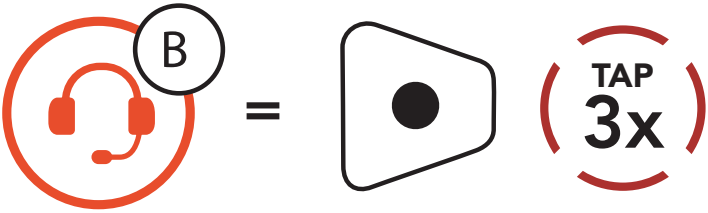
2. Tap twice for Intercom **Friend 2**.

Start/End with Intercom Friend 2



3. Tap three times for Intercom **Friend 3**.

Start/End with Intercom Friend 3



Intercom Pairing

Two-Way Intercom

Multi-Way Intercom

Three-Way Conference Phone Call with Intercom Users

Group Intercom

Universal Intercom

VOX Intercom

Intercom VOX Sensitivity

HD Intercom

Advanced Noise Control™



6. BLUETOOTH INTERCOM SETUP

6.3 Multi-Way Intercom

Intercom Pairing

Two-Way Intercom

Multi-Way Intercom

Three-Way Conference Phone Call with Intercom Users

Group Intercom

Universal Intercom

VOX Intercom

Intercom VOX Sensitivity

HD Intercom

Advanced Noise Control™

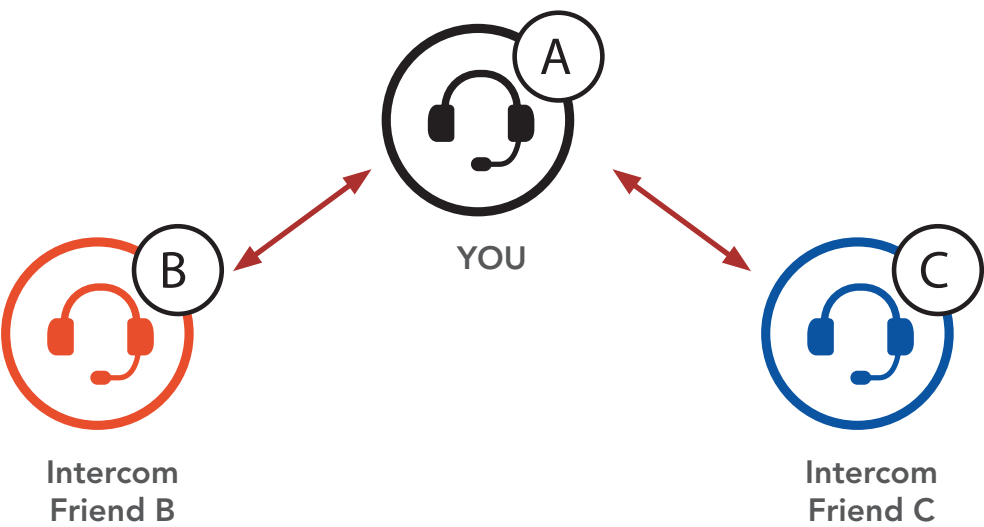
Multi-Way Intercom enables conference-call-style conversations with up to three **Intercom Friends** at the same time. While **Multi-Way Intercom** is in progress, mobile phone connection is temporarily disconnected. However, as soon as **Multi-Way Intercom** terminates, the mobile phone connection will be reestablished.

6.3.1 Starting a Three-Way Intercom Conference

You (A) can have a **Three-Way Intercom Conference** with two other **Intercom Friends (B & C)** by establishing two intercom connections simultaneously.

1. Pair your Bluetooth system **(A)** with those of two other **Intercom Friends (B & C)**. Please refer to **Section 6.1: "Intercom Pairing"** for pairing instructions.

Pair with Intercom Friends B & C

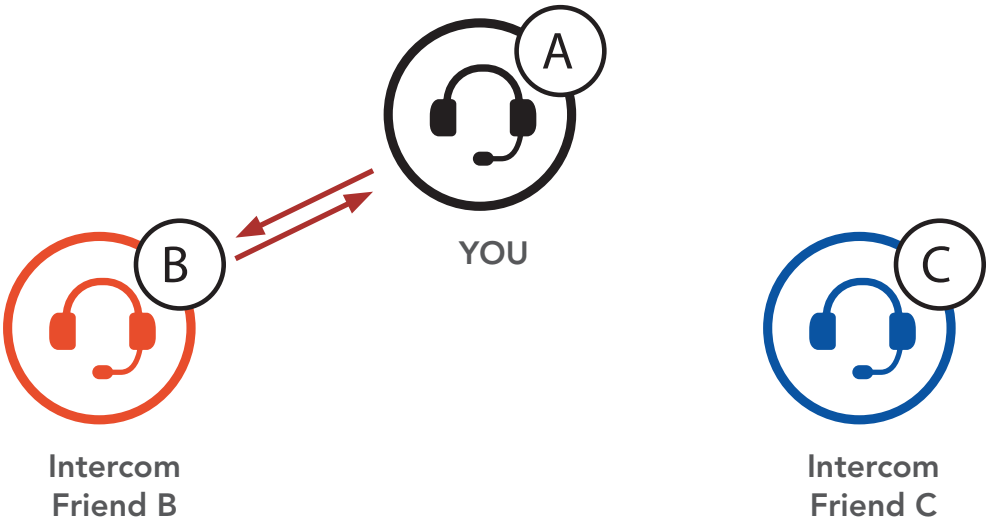




6. BLUETOOTH INTERCOM SETUP

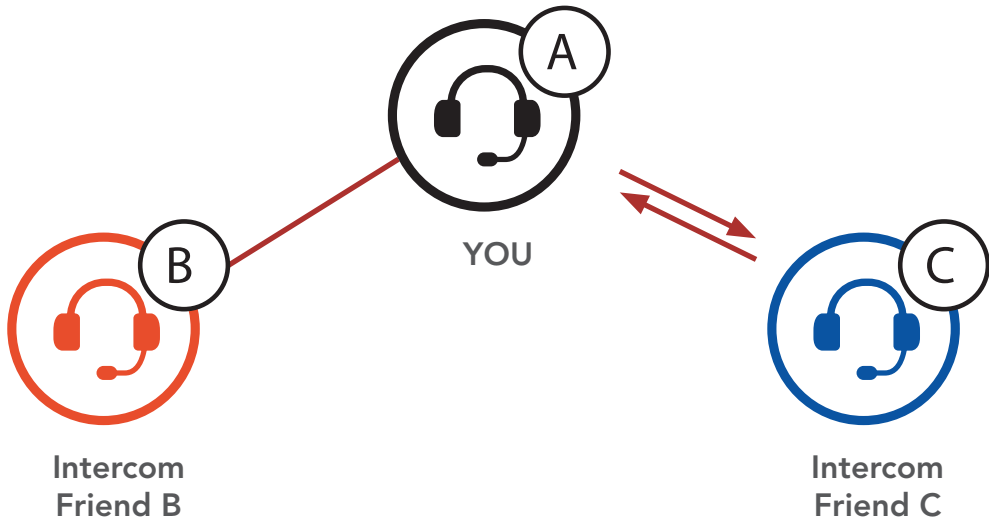
2. Start an intercom conversation with one of the two friends in your three-way intercom group. For example, **you (A)** may start an intercom conversation with the **Intercom Friend (B)**. Or, **Intercom Friend (B)** may start an intercom call with **you (A)**.

Starting an Intercom Conversation with Intercom Friend B



3. Then, **you (A)** can call the second **Intercom Friend (C)**, or the second **Intercom Friend (C)** may join the intercom by making an intercom call to **you (A)**.

Starting an Intercom Conversation with Intercom Friend C



Intercom Pairing

Two-Way
Intercom

Multi-Way
Intercom

Three-Way
Conference
Phone Call
with Intercom
Users

Group Intercom

Universal
Intercom

VOX Intercom

Intercom VOX
Sensitivity

HD Intercom

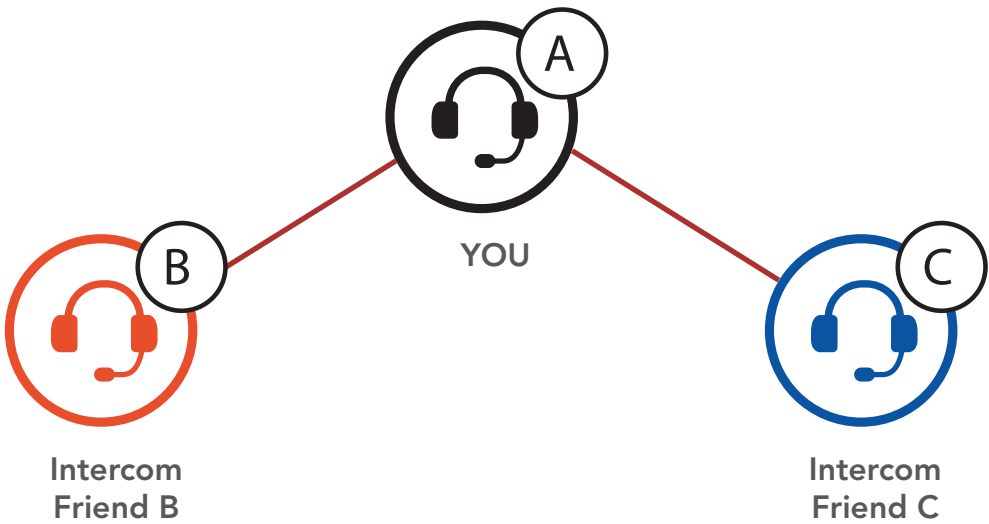
Advanced Noise
Control™



6. BLUETOOTH INTERCOM SETUP

4. Now **you (A)** and two **Intercom Friends (B & C)** are having a **Three-Way Intercom Conference**.

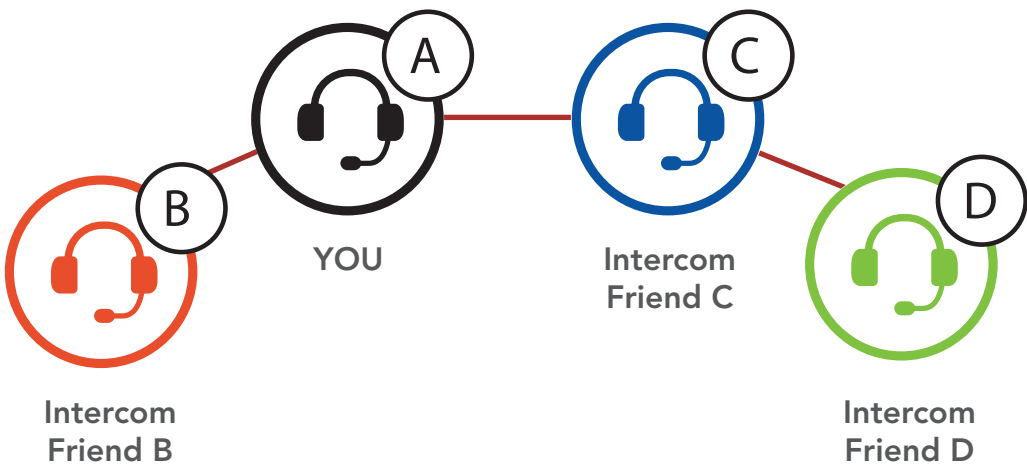
Three-Way Intercom



6.3.2 Starting a Four-Way Intercom Conference

With three **Intercom Friends** connected, a new participant **(D)** can make it a **Four-Way Intercom Conference** by making an intercom call to either **(B)** or **(C)**.

Starting a Four-Way Intercom



Intercom Pairing

Two-Way
Intercom

Multi-Way
Intercom

Three-Way
Conference
Phone Call
with Intercom
Users

Group Intercom

Universal
Intercom

VOX Intercom

Intercom VOX
Sensitivity

HD Intercom

Advanced Noise
Control™



6. BLUETOOTH INTERCOM SETUP

6.3.3 Ending Multi-Way Intercom

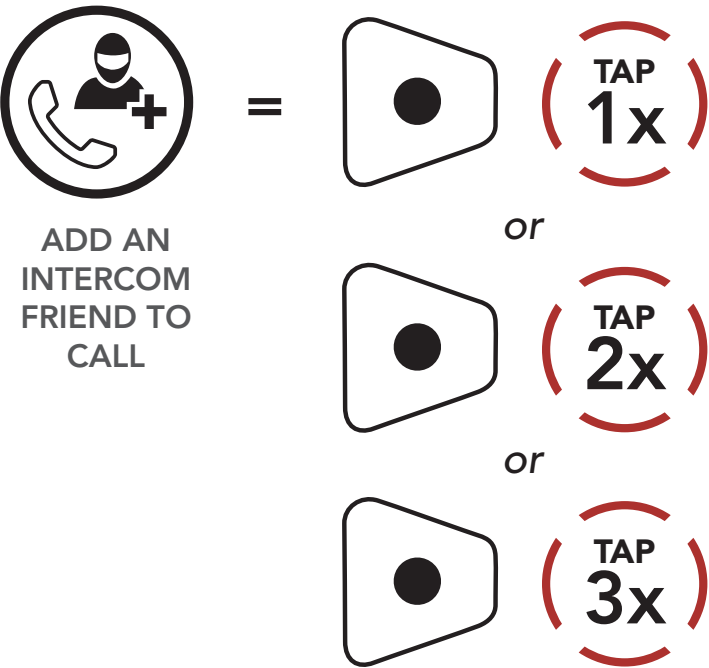
- 1. Press the **Center Button** for **1 second** until you hear a beep to terminate all intercom connections.
- 2. Tap the **Center Button** to disconnect from your first **Intercom Friend**. Double tap the **Center Button** to disconnect from your second **Intercom Friend**.

6.4 Three-Way Conference Phone Call with Intercom Users

You can have a **Three-Way Conference Phone Call** by adding an **Intercom Friend** to the mobile phone conversation.

- 1. During a mobile phone call, tap the **Center Button once, twice or, three times** to invite one of your **Intercom Friends** to the conversation.

Invite an Intercom Friend into Phone Conference



Intercom Pairing

Two-Way Intercom

Multi-Way Intercom

Three-Way Conference Phone Call with Intercom Users

Group Intercom

Universal Intercom

VOX Intercom

Intercom VOX Sensitivity

HD Intercom

Advanced Noise Control™



6. BLUETOOTH INTERCOM SETUP

Intercom Pairing

Two-Way Intercom

Multi-Way Intercom

Three-Way Conference Phone Call with Intercom Users

Group Intercom

Universal Intercom

VOX Intercom

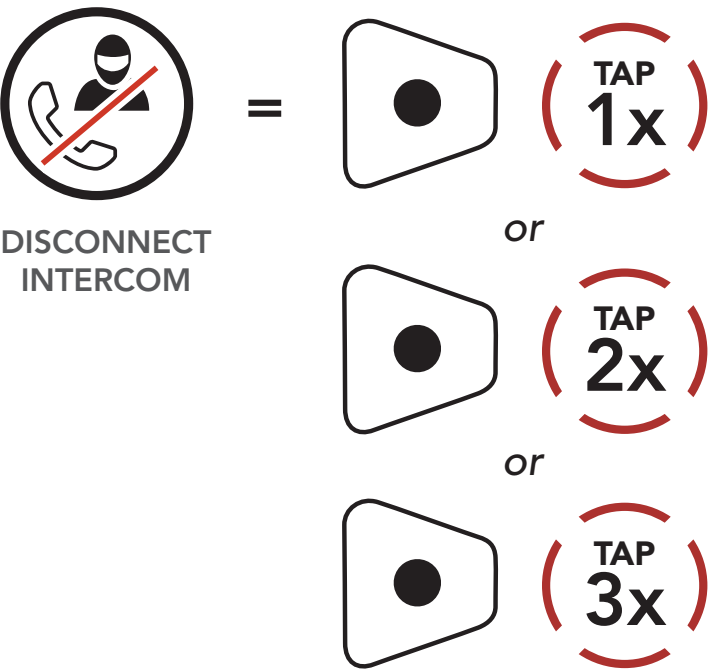
Intercom VOX Sensitivity

HD Intercom

Advanced Noise Control™

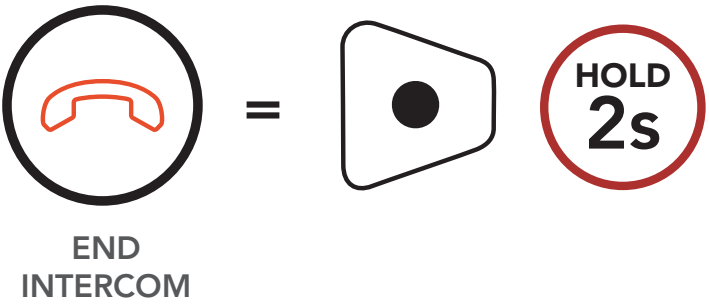
2. To disconnect the intercom during a conference phone call, tap the **Center Button once, twice or three times.**

Disconnect Intercom Friend from Conference



3. To disconnect the mobile phone call during a conference phone call, press the **Center Button for 2 seconds.**

End Phone Call from Conference



Note: When you have an incoming intercom call during a mobile phone call, you will hear the voice prompt, **"Intercom Requested."**



6. BLUETOOTH INTERCOM SETUP

6.5 Group Intercom

Intercom Pairing

Two-Way Intercom

Multi-Way Intercom

Three-Way Conference Phone Call with Intercom Users

Group Intercom

Universal Intercom

VOX Intercom

Intercom VOX Sensitivity

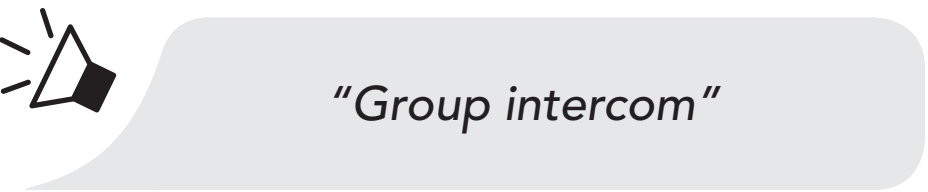
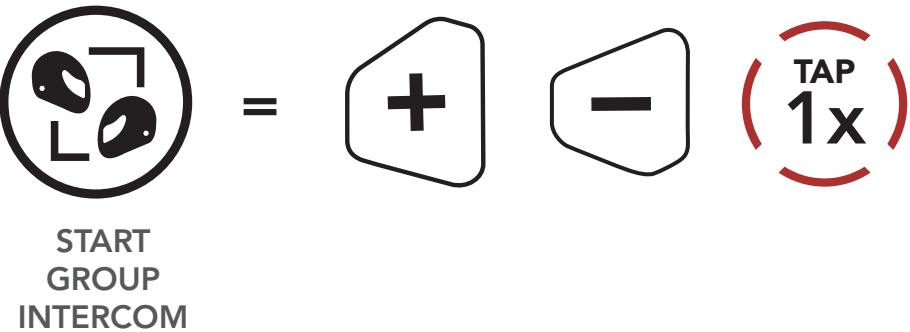
HD Intercom

Advanced Noise Control™

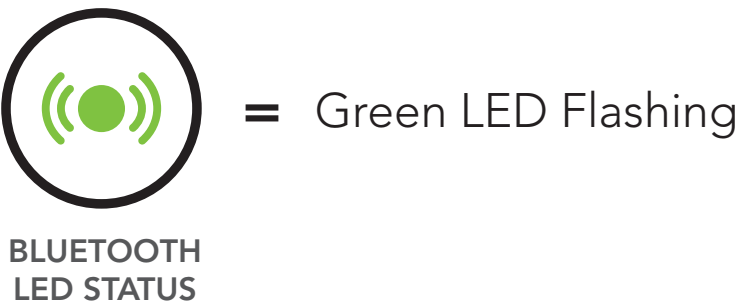
Group Intercom allows you to instantly create a **Multi-Way Conference Intercom** with three of the most recently paired Bluetooth systems.

1. Go through intercom pairing with up to three Bluetooth systems you want to have **Group Intercom** with.
2. Tap the **(+) Button** and the **(-) Button** simultaneously to begin **Group Intercom**. The LED will flash green and you will hear a voice prompt, "**Group intercom**".

Start Group Intercom



3. When all of the Bluetooth systems are connected together, everyone will hear the voice prompt, "**Group intercom connected.**"





6. BLUETOOTH INTERCOM SETUP

Intercom Pairing

Two-Way Intercom

Multi-Way Intercom

Three-Way Conference Phone Call with Intercom Users

Group Intercom

Universal Intercom

VOX Intercom

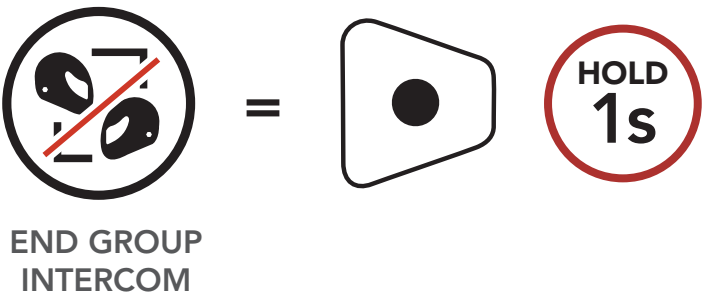
Intercom VOX Sensitivity

HD Intercom

Advanced Noise Control™

4. To terminate **Group Intercom**, press the **Center Button** for **1 second** during **Group Intercom**. You will hear a voice prompt, "**Group intercom terminated**".

End Group Intercom



6.6 Universal Intercom

Universal Intercom allows you to have intercom conversations with users of non-Boom! Audio Bluetooth headsets. You can pair your Bluetooth system with only one non-Boom! Audio headset at a time. The intercom distance depends on the performance of the Bluetooth headset to which it's connected. When a non-Boom! Audio Bluetooth headset is paired with the Boom! Audio Bluetooth system, if another Bluetooth device is paired via **Second Mobile Phone Pairing**, it will be disconnected.

1. Execute **Universal Intercom** in the **Bluetooth System Configuration Menu**.



6. BLUETOOTH INTERCOM SETUP

Access Universal Intercom in the Configuration Menu

Intercom Pairing

Two-Way Intercom

Multi-Way Intercom

Three-Way Conference Phone Call with Intercom Users

Group Intercom

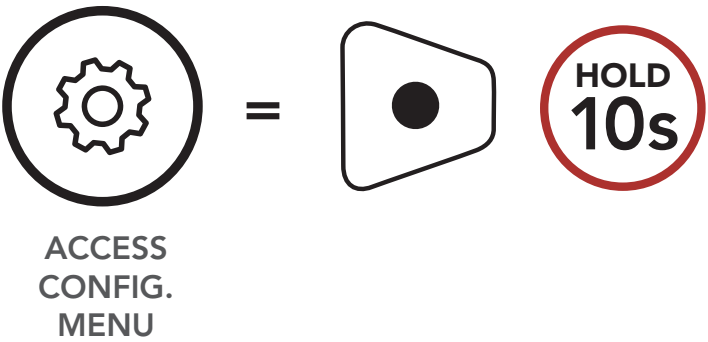
Universal Intercom


VOX Intercom

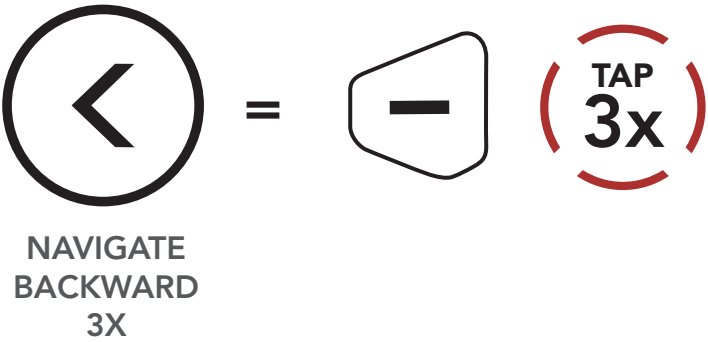
Intercom VOX Sensitivity


HD Intercom

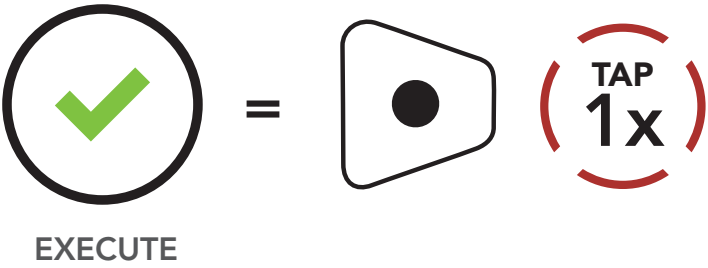
Advanced Noise Control™



 "Configuration menu"



 "Universal intercom"



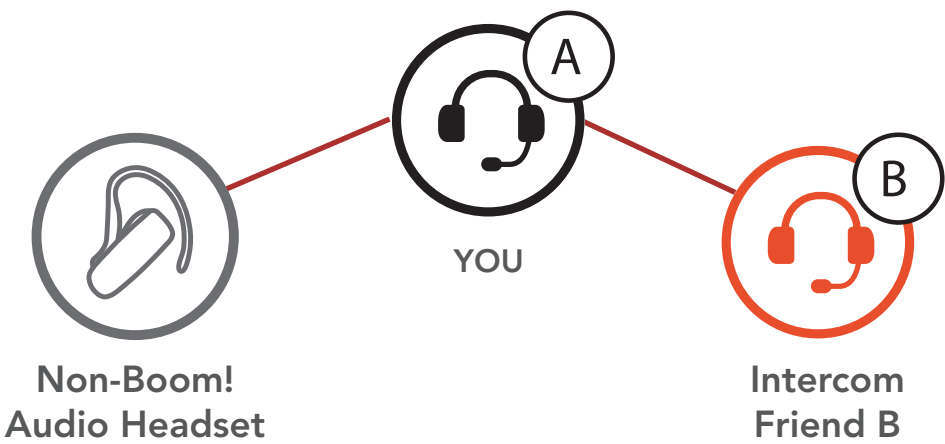
2. Put the non-Boom! Audio Bluetooth system in Pairing Mode. The Bluetooth system will automatically pair with a non-Boom! Audio Bluetooth system.



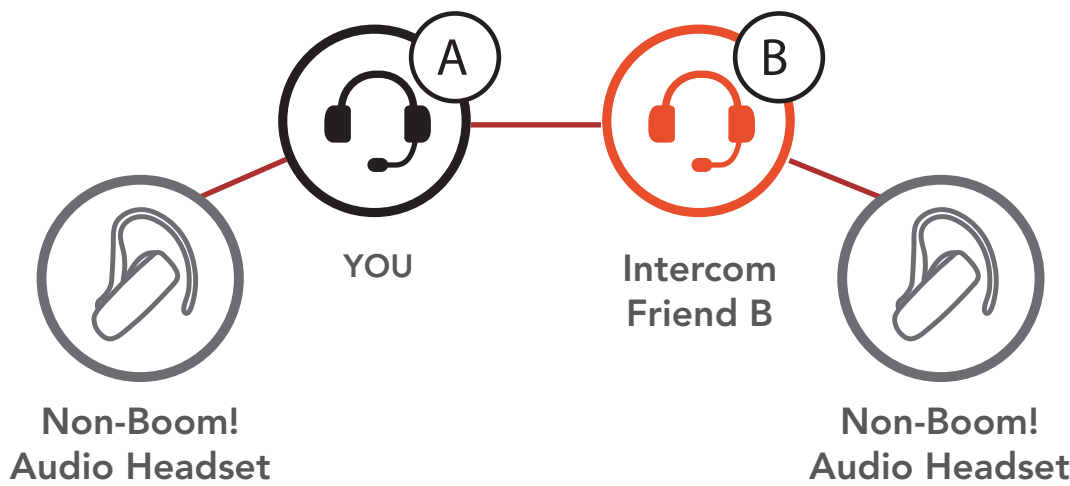
6. BLUETOOTH INTERCOM SETUP

3. You can have **Two-Way Intercom** or **Multi-Way Intercom** communication with up to three **Intercom Friends** using non-Boom! Audio Bluetooth systems by following the procedures described below.

Example of a Three-Way Universal Intercom



Example of a Four-Way Universal Intercom



Intercom Pairing

Two-Way Intercom

Multi-Way Intercom

Three-Way Conference Phone Call with Intercom Users

Group Intercom

Universal Intercom

VOX Intercom

Intercom VOX Sensitivity

HD Intercom

Advanced Noise Control™



6. BLUETOOTH INTERCOM SETUP

6.7 VOX Intercom (Default: Disabled)

Intercom Pairing

Two-Way Intercom

Multi-Way Intercom

Three-Way Conference Phone Call with Intercom Users

Group Intercom

Universal Intercom

VOX Intercom

Intercom VOX Sensitivity

HD Intercom

Advanced Noise Control™

The **VOX Intercom** setting can be found in the settings menu, accessible through **Boom Audio Bluetooth Device Manager** or **Sena Smartphone App**.

If **VOX Intercom** is enabled, you can initiate an intercom conversation with the last connected intercom friend by voice. When you want to start intercom, say a word such as **"Hello"** loudly or blow air into the microphone. If you start an intercom conversation by voice, the intercom terminates automatically when you and your intercom friend remain silent for 20 seconds.

Note: If you manually start an intercom conversation by tapping the **Center Button**, you have to terminate the intercom conversation manually.

However, if you start the intercom by voice and end it manually by tapping the **Center Button**, you will not be able to start intercom by voice temporarily. In this case, you have to tap the **Center Button** to restart the intercom. This is to prevent repeated unintentional intercom connections by strong wind noise. After rebooting the Bluetooth system, you can start the intercom by voice again.



6. BLUETOOTH INTERCOM SETUP

6.8 Intercom VOX Sensitivity (Default: 3)

Intercom Pairing

Two-Way Intercom

Multi-Way Intercom

Three-Way Conference Phone Call with Intercom Users

Group Intercom

Universal Intercom

VOX Intercom

Intercom VOX Sensitivity

HD Intercom

Advanced Noise Control™

The **Intercom VOX Sensitivity** setting can be found in the settings menu, accessible through **Boom Audio Bluetooth Device Manager** or **Sena Smartphone App**.

The sensitivity can be adjusted depending on your riding environment. Level 5 is the highest sensitivity setting and 1 is the lowest.

6.9 HD Intercom (Default: Enabled)

The **HD Intercom** setting can be found in the settings menu, accessible through **Boom Audio Bluetooth Device Manager** or **Sena Smartphone App**.

HD Intercom enhances the two-way intercom audio from normal quality to HD quality. **HD Intercom** will become temporarily disabled when you enter into a multi-way intercom. If this feature is disabled, the two-way intercom audio will change to normal quality.

Note:

- The intercom distance of **HD Intercom** is relatively shorter than that of normal intercom.
- **HD Intercom** is active only when **Bluetooth Intercom Audio Multitasking** is disabled.



6. BLUETOOTH INTERCOM SETUP

6.10 Advanced Noise Control™ (Default: Enabled)

Intercom Pairing

Two-Way Intercom

Multi-Way Intercom

Three-Way Conference Phone Call with Intercom Users

Group Intercom

Universal Intercom

VOX Intercom

Intercom VOX Sensitivity

HD Intercom

Advanced Noise Control™

The **Advanced Noise Control** setting can be found in the settings menu, accessible through **Boom Audio Bluetooth Device Manager** or **Sena Smartphone App**.

If **Advanced Noise Control** is enabled, background noise is reduced during intercom conversations.

If **Advanced Noise Control** is disabled, the background noise is mixed with your voice while using the intercom.



7. MESH INTERCOM

7.1 What is Mesh Intercom?

What is Mesh Intercom?

Mesh Intercom Mode

Using the Mesh

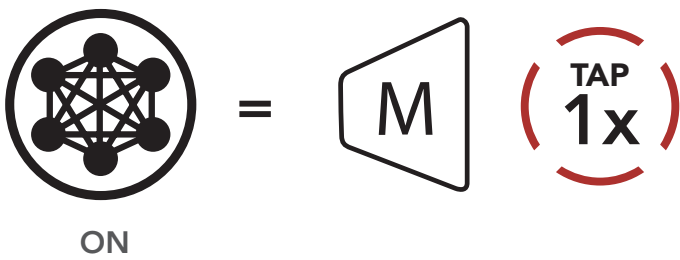
Mesh Intercom Conference with Bluetooth Intercom Participant

Mesh Intercom is an adaptive and autonomous intercom technology developed by Harley-Davidson which features self-organizing, self-healing, self-optimizing, and multi-hopping group communication. **Mesh Intercom** allows riders to connect and communicate with nearby users without the need to pair each Bluetooth system together.

Starting Mesh Intercom

When **Mesh Intercom** is enabled, the Bluetooth system will automatically connect to nearby Boom! Audio HD-N02 users and allow them to talk to each other by pressing the **Mesh Intercom Button**.

Mesh Intercom On

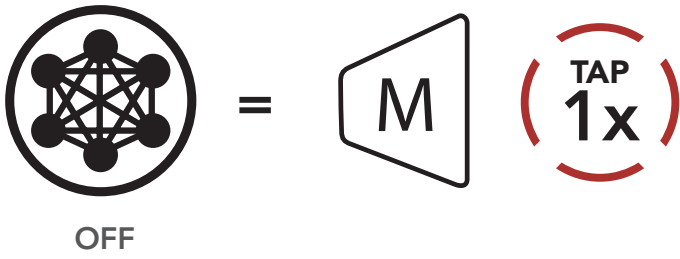


ON



“Mesh intercom on”

Mesh Intercom Off



OFF



“Mesh intercom off”



7. MESH INTERCOM

7.2 Mesh Intercom Mode (Default: Public Mode)

What is Mesh Intercom?

Mesh Intercom Mode

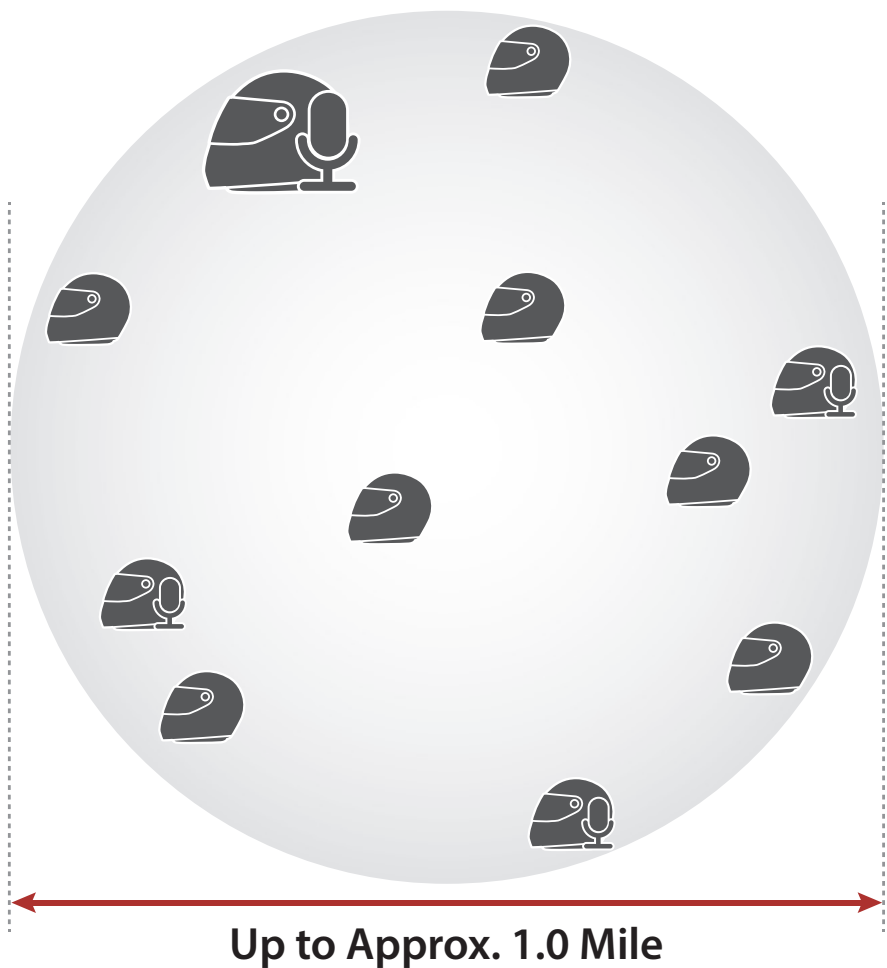
Using the Mesh

Mesh Intercom Conference with Bluetooth Intercom Participant

7.2.1 Public Mode

When **Mesh Intercom** is enabled, the Bluetooth system will be in **Public Mode** initially. It can connect with a virtually unlimited number of nearby Boom! Audio HD-N02s within a 1.6 km (1.0 mile) range. Within this group, 6 users can talk at the same time for an optimized, open group intercom conversation. Users can freely connect with each other when in **Public Mode**. The audio quality of the intercom conversation will be the best when communicating using **Public Mode**. The Bluetooth system will not save the connection information from any of the Bluetooth systems that it is connected to for future open group intercom conversations when in **Public Mode**.

Mesh Intercom in Public Mode



- Limitless participants within range
- 6 people talk at the same time



7. MESH INTERCOM

7.2.2 Private Mode

What is Mesh Intercom?

Mesh Intercom Mode

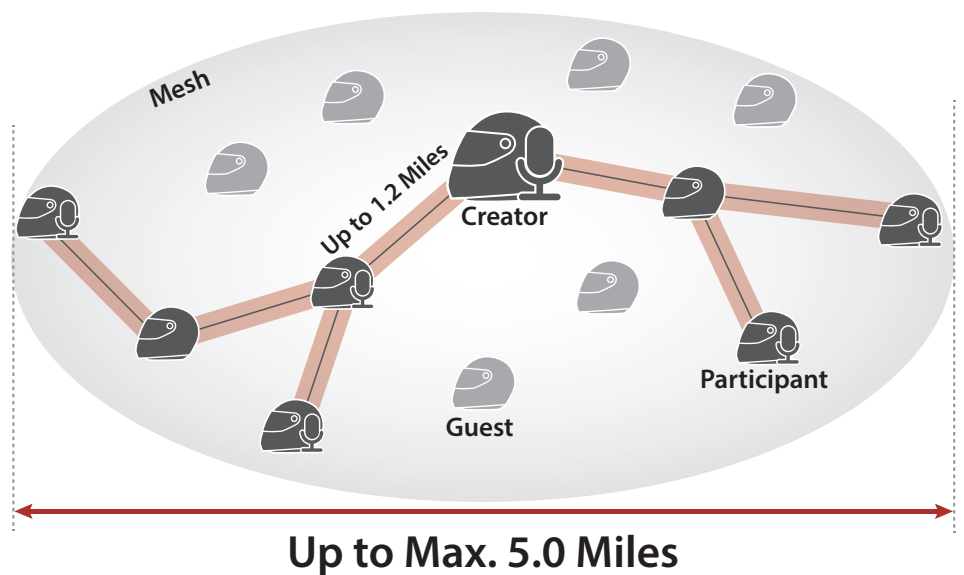
Using the Mesh

Mesh Intercom Conference with Bluetooth Intercom Participant

Mesh

A Mesh is a closed network of Bluetooth systems where participants can leave, join or rejoin a group intercom conversation without affecting the connection between each of the Bluetooth systems. For a closed intercom conversation using **Mesh Intercom**, a Mesh needs to be created by a user. When a user creates a Mesh, the Bluetooth system automatically switches from **Public Mode** to **Private Mode**.

Access Remote Control Pairing in the Configuration Menu



- Max. participants : 15 participants + 1 creator
- 6 people talk at the same time
- Limitless guests only listen within "Mesh" range



7. MESH INTERCOM

What is Mesh Intercom?

Mesh Intercom Mode

Using the Mesh

Mesh Intercom Conference with Bluetooth Intercom Participant

Private Mode

When the Bluetooth system is in **Private Mode**, it can connect with up to 15 other Boom! Audio HD-N02s. The range between each Bluetooth system in Private Mode can be up to 2.0 km (1.2 miles). The Mesh can extend up to 8.0 km (5.0 miles) head-to-tail during a closed intercom conversation. Within this group, 6 users can talk at the same time for an optimized closed group conversation. The audio quality when communicating in a Mesh automatically adjusts according to the number of participants. When connected together in a Mesh, the Bluetooth system will automatically save the connection information from all of the other Bluetooth systems that it has connected to for future **Mesh Intercom** group communication.

7.2.3 Guest Mode (Default: Disabled)

A **Guest Mode** setting can be found in the settings menu, accessible through **Boom Audio Bluetooth Device Manager** or **Sena Smartphone App**.

Guest Mode allows a guest to listen to a closed Mesh conversation. The creator of the Mesh needs to enable **Guest Mode** before creating the Mesh to allow guests. **Guest Mode** can be enabled when the guest is in **Public Mode** and the **Mesh Network** connection information has been removed. The guest needs to be within range of the Mesh to listen to the closed Mesh conversation.

Note: When the creator enables **Guest Mode**, a virtually unlimited number of guests can connect to a Mesh.



7. MESH INTERCOM

7.3 Using the Mesh

What is Mesh Intercom?

Mesh Intercom Mode

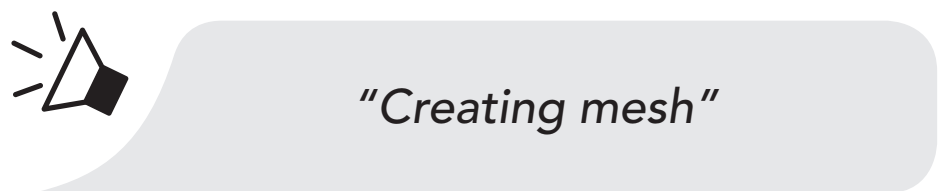
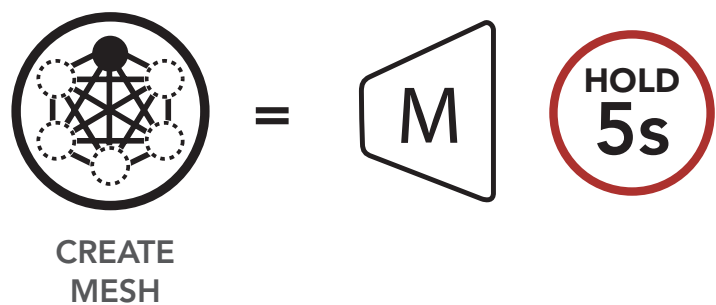
Using the Mesh

Mesh Intercom Conference with Bluetooth Intercom Participant

7.3.1 Creating the Mesh

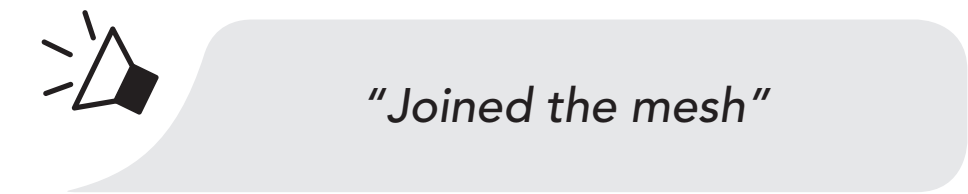
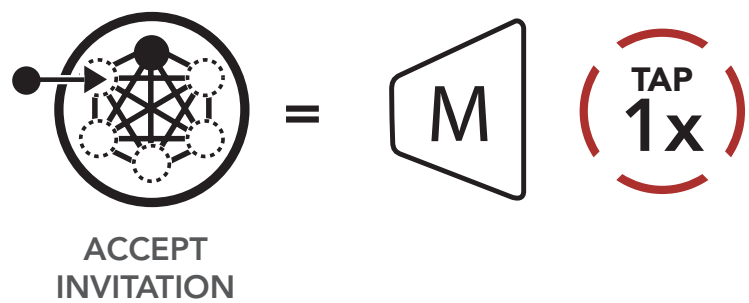
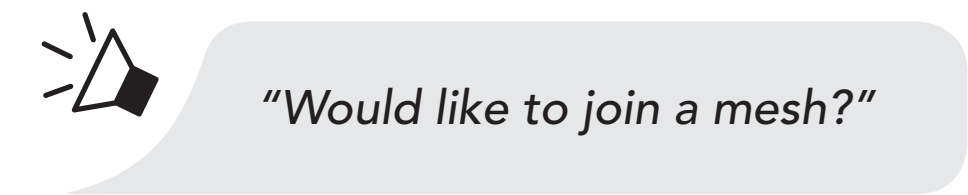
A user can create a Mesh so that they can invite nearby Boom! Audio HD-N02s to join in a closed intercom conversation.

Create Mesh [Creator]



Users within range and in **Public Mode** can accept the invitation sent by the creator of the Mesh to join a closed intercom conversation after hearing the voice prompt **“Would you like to join a mesh?”**

Accept Invitation During Mesh Creation [Participant]





7. MESH INTERCOM

What is Mesh Intercom?

Mesh Intercom Mode

Using the Mesh

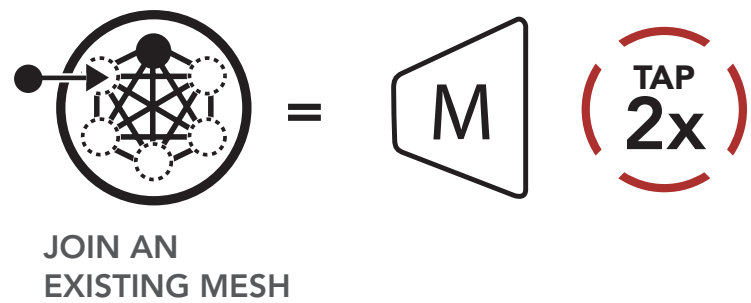
Mesh Intercom Conference with Bluetooth Intercom Participant

Note: A user can join the Mesh within **30 seconds** after hearing the invitation voice prompt.

7.3.2 Join an Existing Mesh

Users that did not accept the invitation from the creator or were not invited can request to join the Mesh.

Join an Existing Mesh [Participant]



"Searching for Mesh"

[Creator]



"Would you like to add a new participant?"

The creator of the Mesh can accept the request for a user to join the closed intercom.

Accept a participant [Creator]



[Participant]



"Joined the mesh"



7. MESH INTERCOM

What is Mesh Intercom?

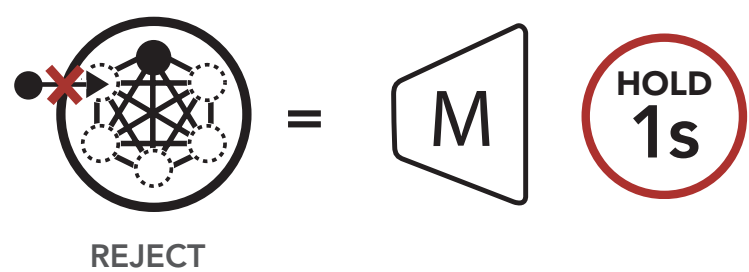
Mesh Intercom Mode

Using the Mesh

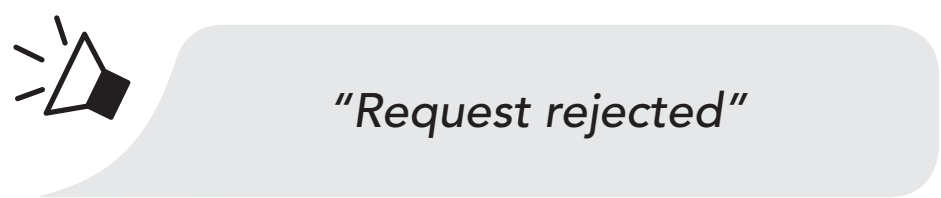
Mesh Intercom Conference with Bluetooth Intercom Participant

The creator of the Mesh can reject the request for a user to join the closed intercom.

Reject a participant
[Creator]



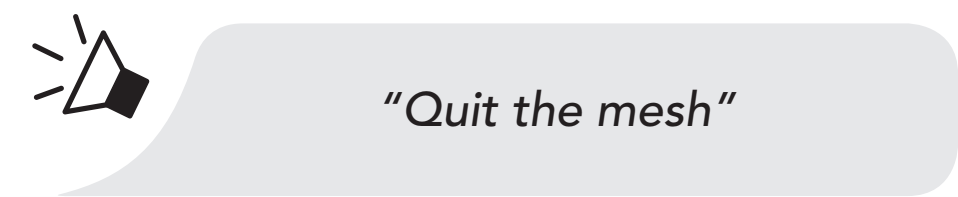
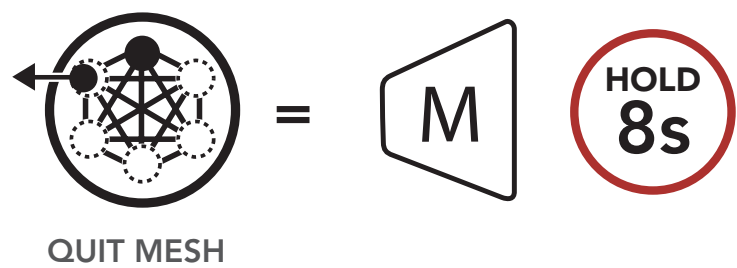
[Participant]



7.3.3 Quit the Mesh

Users that quit the Mesh will automatically return to **Public Mode**.

Quit the Mesh



Note: When a user quits the Mesh, the Bluetooth system will automatically switch to **Public Mode** and the stored **Mesh Network** information will be deleted.



7. MESH INTERCOM

7.3.4 Toggle Public Mode / Private Mode

What is Mesh Intercom?

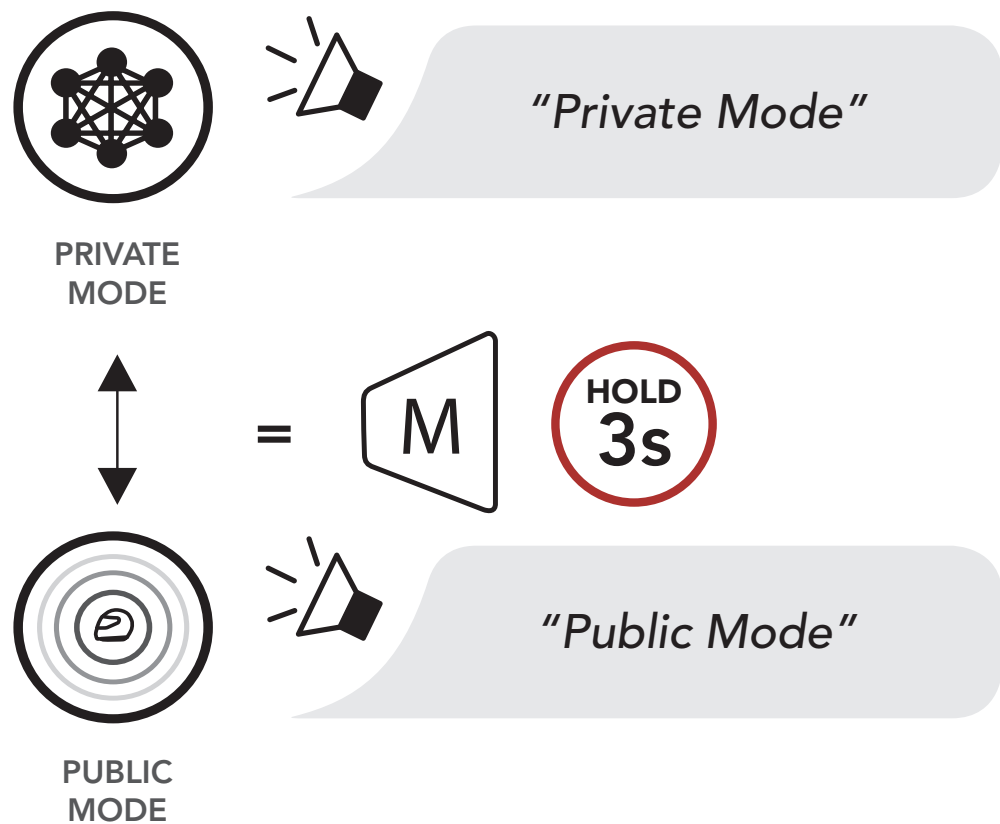
Mesh Intercom Mode

Using the Mesh

Mesh Intercom Conference with Bluetooth Intercom Participant

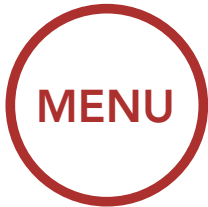
A user is able to toggle between **Public Mode** and **Private Mode** without quitting the Mesh. This allows the user to keep the **Mesh Network** connection information while in **Public Mode**. The user can toggle to **Private Mode** to communicate with participants from the stored **Mesh Network** information.

Toggle Between Public Mode and Private Mode



7.3.5 Toggle Public Mode / Guest Mode

A participant is able to toggle between **Public Mode** and **Guest Mode**. **Guest Mode** allows a guest to listen to a closed Mesh conversation. The creator of the Mesh needs to enable **Guest Mode** before creating the Mesh to allow guests. **Guest Mode** can be enabled when the guest is in **Public Mode** and the **Mesh Network** connection information has been removed.



7. MESH INTERCOM

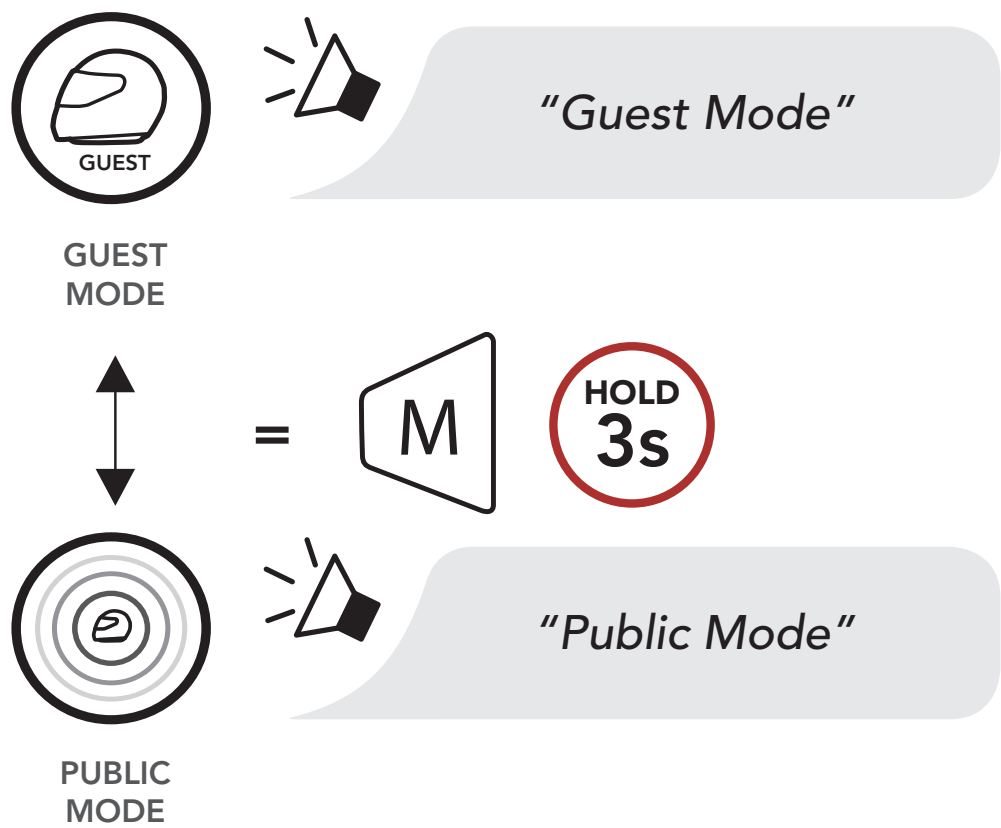
Toggle Between Public Mode and Guest Mode
[Participant]

What is Mesh
Intercom?

Mesh
Intercom
Mode

Using the
Mesh

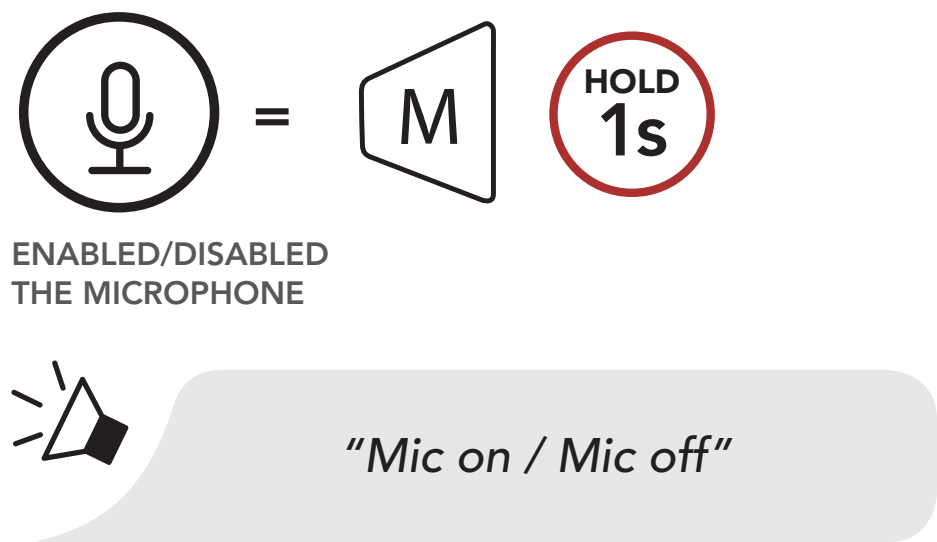
Mesh
Intercom
Conference
with
Bluetooth
Intercom
Participant



7.3.6 Mic Enabled/Disabled (Default: Enabled)

Users can enable/disable the microphone when communicating in a **Mesh Intercom**. This can be done in either **Public Mode** or **Private Mode**.

Enabled/Disabled the Microphone





7. MESH INTERCOM

7.4 Mesh Intercom Conference with Bluetooth Intercom Participant

What is Mesh Intercom?

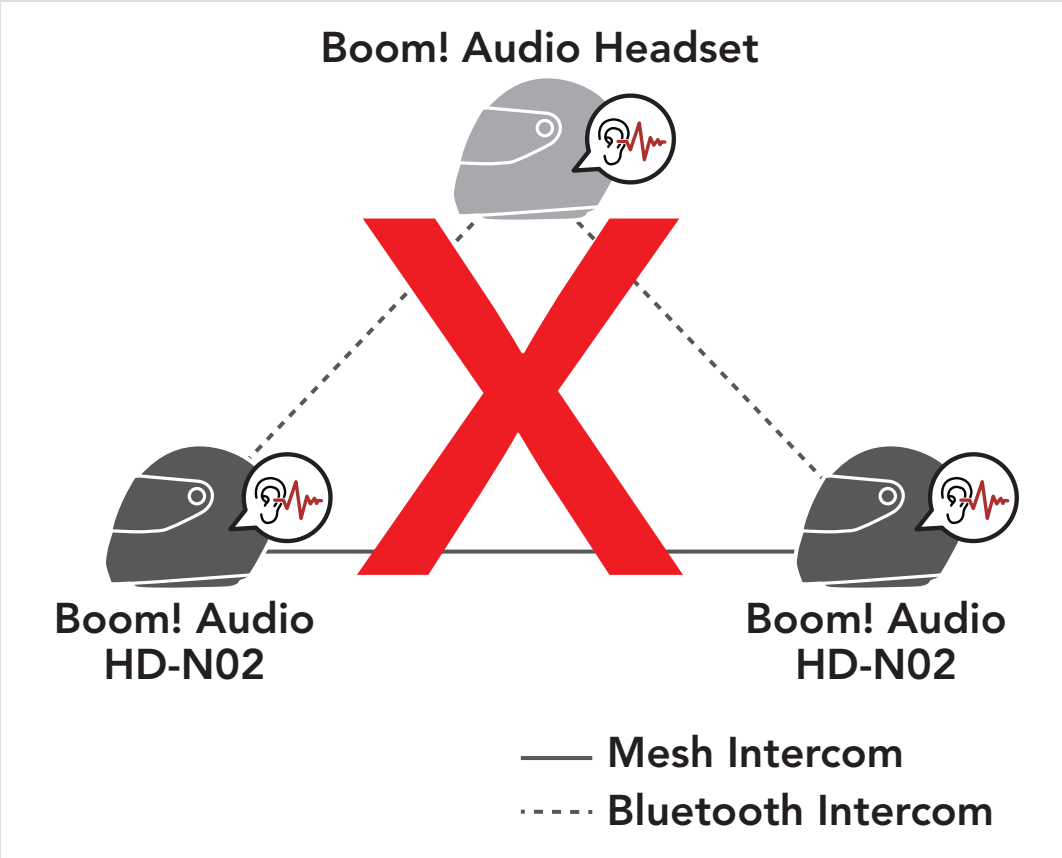
Mesh Intercom Mode

Using the Mesh

Mesh Intercom Conference with Bluetooth Intercom Participant

Users can use the existing Bluetooth intercom and **Mesh Intercom** function at the same time. In this case, it is recommended to communicate with other Boom! Audio headsets via Bluetooth intercom connection and use **Mesh Intercom** between Boom! Audio HD-N02s. Please refer to **Section 6: "Bluetooth Intercom Setup"** for more details.

Note: If a closed loop is created, as shown below, each user will experience severe noise issues. Harley-Davidson recommends that a closed loop not be created.





Audio Multitasking Settings

Intercom- Audio Overlay Sensitivity

Audio Overlay Volume Management

8. AUDIO MULTITASKING

Audio Multitasking allows you to have an intercom conversation while simultaneously listening to music, FM radio, or GPS instructions. 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 feature can be configured through the **Intercom-Audio Overlay Sensitivity** and the **Audio Overlay Volume Management** settings.

8.1 Audio Multitasking Settings

The Mesh Intercom Audio Multitasking feature is always on. The **Bluetooth Intercom Audio Multitasking (Default: Disabled)** setting can be found in the settings menu, accessible through the **Boom Audio Bluetooth Device Manager** or the **Sena Smartphone App**.

Note:

1. **Bluetooth Intercom Audio Multitasking** will be activated during two-way intercom conversations with a headset that also supports this feature.
2. **HD Intercom** will become disabled temporarily when **Bluetooth Intercom Audio Multitasking** is enabled.
3. For **Bluetooth Intercom Audio Multitasking** to work properly, you need to power the headset off and on. Please restart the headset.
4. Some GPS devices may not support this feature.
5. **Bluetooth Intercom Audio Multitasking** has limited usage for iOS devices.



8. AUDIO MULTITASKING

8.2 Intercom-Audio Overlay Sensitivity (Default: 3)

Audio
Multitasking
Settings

Intercom-
Audio Overlay
Sensitivity

Audio Overlay
Volume
Management

The **Intercom-Audio Overlay Sensitivity** setting can be found in the settings menu, accessible through **Boom Audio Bluetooth Device Manager** or **Sena Smartphone App**. The music, FM radio and GPS volume 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.

8.3 Audio Overlay Volume Management (Default: Disabled)

The **Audio Overlay Volume Management** setting can be found in the settings menu, accessible through **Boom Audio Bluetooth Device Manager** or **Sena Smartphone App**. The music, FM radio and GPS 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 intercom conversation.



9. USING THE FM RADIO

9.1 FM Radio On/Off

To turn on or shut off the FM Radio, press the **(-)** **Button** for **1 second** until you hear a double beep.

FM Radio On/
Off

Seek and
Save Radio
Stations

Scan and Save
Radio Stations

Temporary
Station Preset

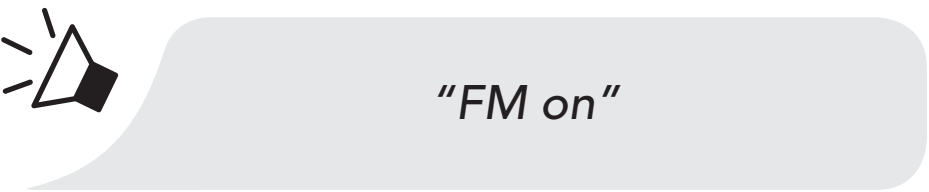
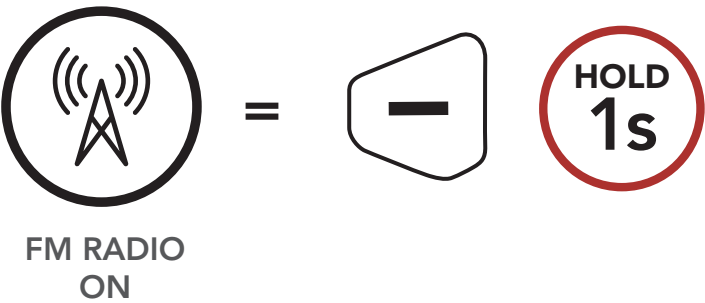
Navigating
Preset
Stations

Region
Selection

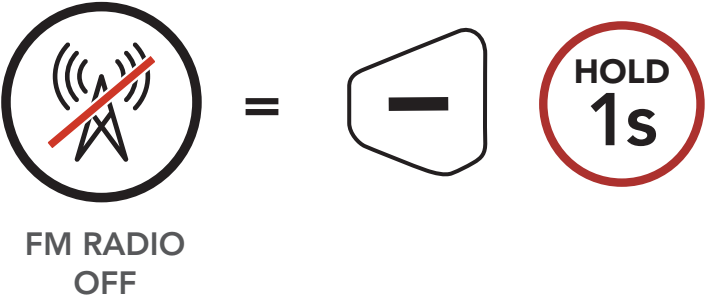
Radio Data
System (RDS)
Alternative
Frequency
(AF) Setting

FM Station
Guide

FM Radio On



FM Radio Off





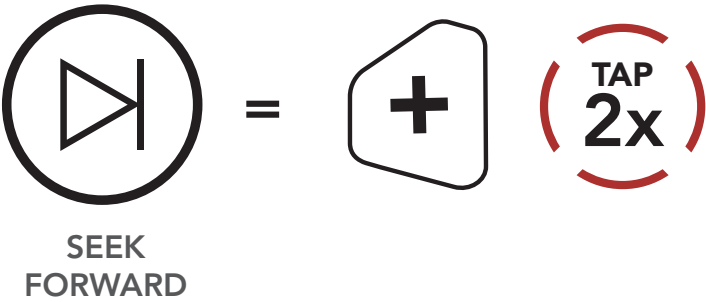
9. USING THE FM RADIO

9.2 Seek and Save Radio Stations

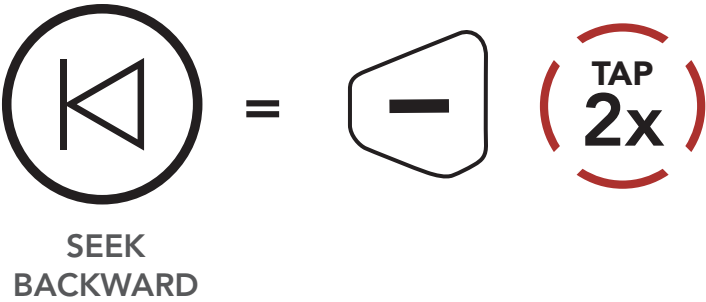
The **"Seek"** feature searches for radio stations.

- 1. Double tap the **(+) Button** or the **(-) Button** to search for radio stations.

Seek Stations Forward

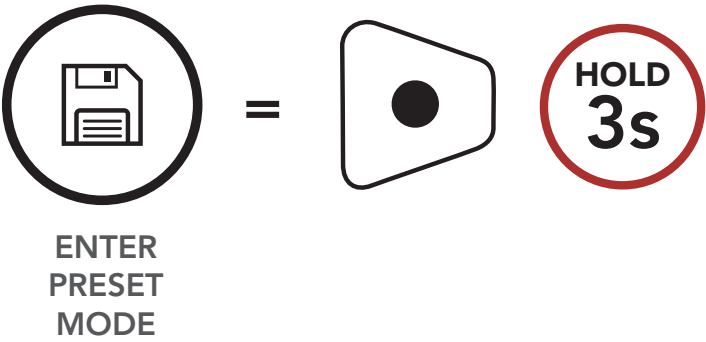


Seek Stations Backward



- 2. To save to current station, press and hold the **Center Button** for **3 seconds** until you hear the voice prompt, **"Preset (#)"**.

Enter Preset Selection Mode



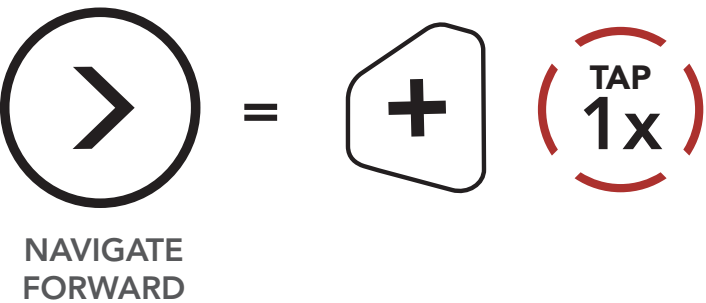
"Preset (#)"



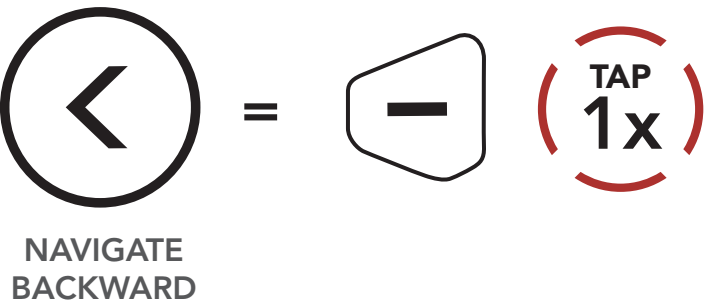
9. USING THE FM RADIO

3. Tap the **(+) Button** or the **(-) Button** to navigate through the preset numbers that you want to store.

Navigate Forward through Preset Stations

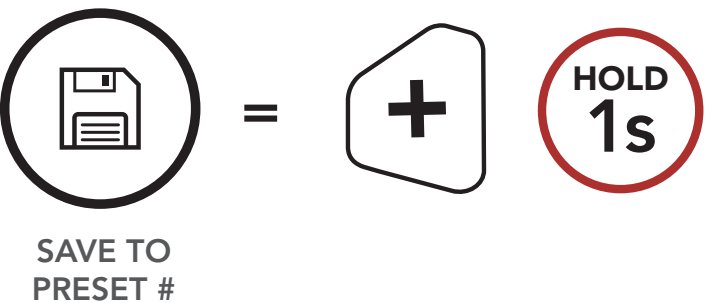


Navigate Backward through Preset Stations

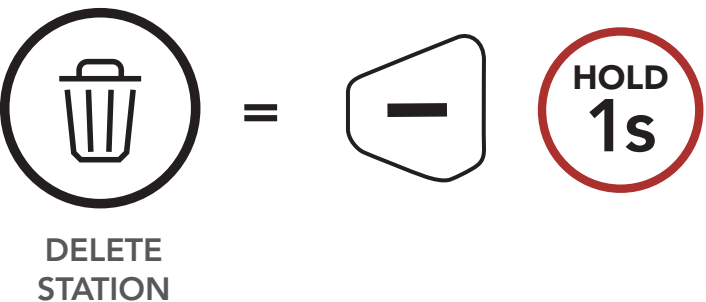


4. Press and hold the **(+) Button** for **1 second** to save the station in the preset number you choose. Or, press and hold the **(-) Button** for **1 second** to delete the station from memory.

Save Station to the Preset Number



Delete Station from Memory





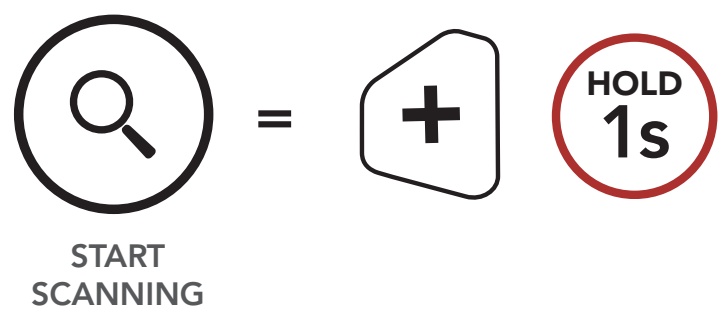
9. USING THE FM RADIO

9.3 Scan and Save Radio Stations

The **"Scan"** function automatically searches for radio stations, starting with the current station's frequency, then up from there.

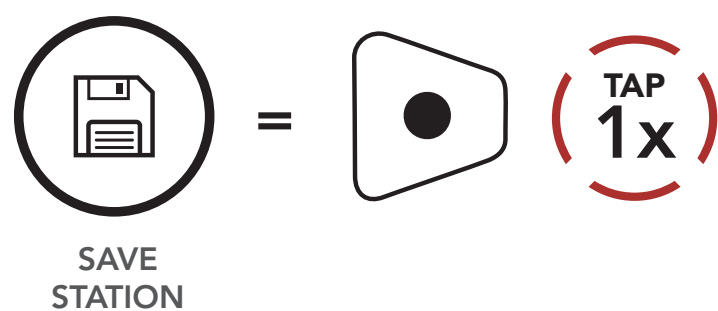
1. Press and hold the **(+) Button** for **1 second** to scan for stations.

Scan and Save Radio Stations



2. The tuner pauses at each station it finds for **8 seconds** before moving to the next.
3. To save the current station, tap the **Center Button**. The station will be saved as the next preset number.

Save the Current Station



"Save preset (#)"

FM Radio On/
Off

Seek and
Save Radio
Stations

Scan and Save
Radio Stations

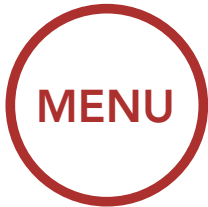
Temporary
Station Preset

Navigating
Preset
Stations

Region
Selection

Radio Data
System (RDS)
Alternative
Frequency
(AF) Setting

FM Station
Guide



FM Radio On/
Off

Seek and
Save Radio
Stations

Scan and Save
Radio Stations

Temporary
Station Preset

Navigating
Preset
Stations

Region
Selection

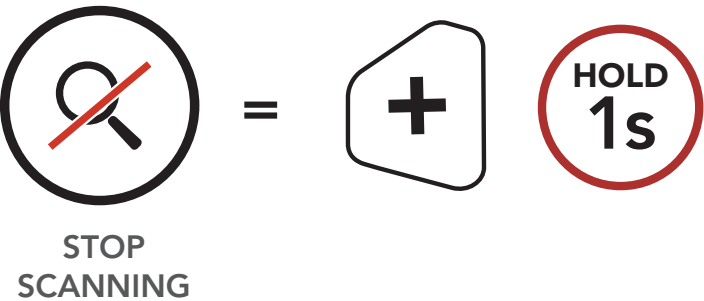
Radio Data
System (RDS)
Alternative
Frequency
(AF) Setting

FM Station
Guide

9. USING THE FM RADIO

4. To stop scanning, press and hold the **(+) Button** for **1 second**.

Stop Scanning

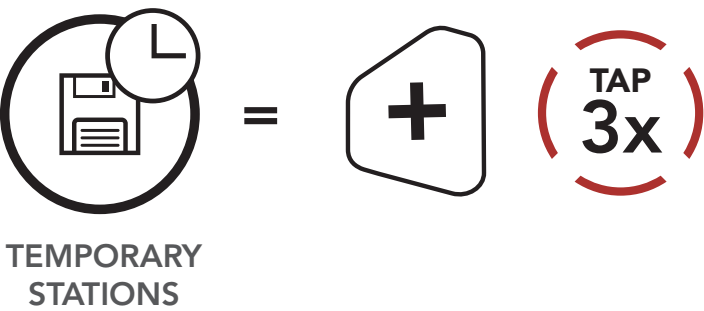


9.4 Temporary Station Preset

The **Temporary Preset** feature automatically finds and saves the nearest 10 radio stations without changing your existing preset stations.

1. Tap the **(+) Button** three times to automatically find and save 10 stations.

Temporary Stations



2. The temporary preset stations will be cleared when the Bluetooth system reboots.

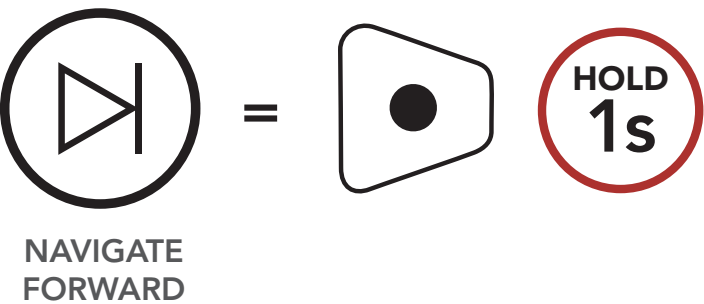


9. USING THE FM RADIO

9.5 Navigating Preset Stations

Using the methods above, up to 10 radio stations can be stored. Press and hold the **Center Button** to navigate through the saved stations.

Navigate through Preset Stations



NAVIGATE
FORWARD

Note: You can use the **Boom Audio Bluetooth Device Manager** or the **Sena Smartphone App** to save the preset stations.

9.6 Region Selection (Default: Worldwide)

You can select the proper FM frequency range for your location from the **Boom Audio Bluetooth Device Manager** or the **Sena Smartphone App**. Using the region setting, you can optimize the seek function to avoid unnecessary frequency ranges.

Region	Frequency range	Step
Worldwide	76.0 ~ 108.0 MHz	± 100 kHz
North America, South America and Australia	87.5 ~ 107.9 MHz	± 200 kHz
Asia and Europe	87.5 ~ 108.0 MHz	± 100 kHz
Japan	76.0 ~ 95.0 MHz	± 100 kHz



FM Radio On/
Off

Seek and
Save Radio
Stations

Scan and Save
Radio Stations

Temporary
Station Preset

Navigating
Preset
Stations

Region
Selection

Radio Data
System (RDS)
Alternative
Frequency
(AF) Setting

FM Station
Guide

9. USING THE FM RADIO

9.7 Radio Data System (RDS) Alternative Frequency (AF) Setting (Default: Disabled)

The **RDS AF** setting can be found in the settings menu, accessible through **Boom Audio Bluetooth Device Manager** or **Sena Smartphone App**.

When radio station signals get too weak for a good reception, with **RDS AF** enabled, the radio receiver re-tunes to a station with better reception. If **RDS AF** is disabled, you'll have to find stronger stations manually.

9.8 FM Station Guide (Default: Enabled)

The **Station Guide** setting can be found in the settings menu, accessible through **Boom Audio Bluetooth Device Manager** or **Sena Smartphone App**.

When **FM Station Guide** is enabled, FM station frequencies are given by voice prompts as you select preset stations. When **FM Station Guide** is disabled, the voice prompts on FM station frequencies will not be given as you select preset stations.

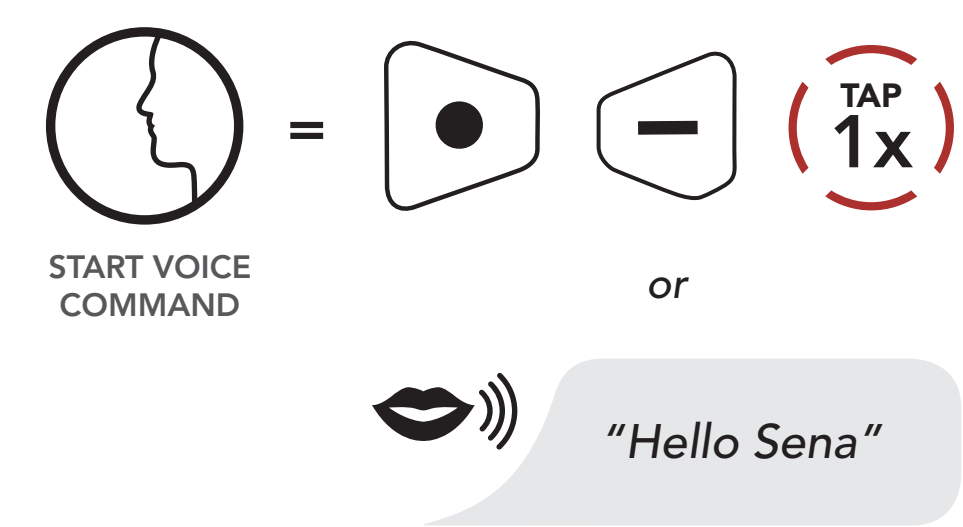


Voice
Command
Setting

10. VOICE COMMAND

The voice command of the Bluetooth system allows you to operate certain operations by simply using your voice. You can control the Bluetooth system completely handsfree using the voice recognition. The voice command function works only with English commands.

Voice Command





10. VOICE COMMAND

Voice
Command
Setting

Mode Status	Function	Voice Command
Standby / Music / FM Radio	Play/Pause music	"Music" or "Stereo"
	Turn on/off FM radio	"FM radio"
	Check battery	"Check battery"
	Speed dialing	"Speed dial [one, two, three]"
	Redial the last call	"Redial"
	Voice command help	"What can I say?"
	Check connected devices	"Connected devices"
	Configuration menus	"Configuration"
Music / FM Radio	Next track (music) / next preset (FM radio)	"Next"
	Previous track (music) / previous preset (FM radio)	"Previous"
	Stop music / FM radio	"Stop"
Standby / Mesh Intercom	Mesh intercom On/Off	"Mesh intercom"
	End the Bluetooth and Mesh intercom	"End intercom"
	Create a Mesh	"Create Mesh"
	Quit the Mesh	"Quit Mesh"



Voice Command Setting

10. VOICE COMMAND

Note:

- Voice command performance may vary based on the environmental conditions including riding speed, helmet type and ambient noise. To improve the performance, minimize wind noise on the microphone by using a large microphone sponge and closing the visor.
- To activate the voice command during intercom conversation, tap the **Center Button** and **(-) Button** at the same time.

10.1 Voice Command Setting (Default: Enabled)

A **Voice Command** setting can be found in the settings menu, accessible through **Boom Audio Bluetooth Device Manager** or **Sena Smartphone App**.

When **Voice Command** is enabled, you can use your voice to give a command the Bluetooth system operate certain operations completely handsfree. If **Voice Command** is disabled, you will need to operate all of the functions using the buttons on the Bluetooth system.



11. GENERAL SETTINGS

11.1 Function Priority

Function
Priority

The Bluetooth system prioritizes connected devices in the following order:

Firmware
Upgrades

(highest)

- Mobile phone
- Voice command mode
- Mesh Intercom / Bluetooth Intercom
- Music sharing via Bluetooth stereo
- FM radio

Voice Prompts

Sidetone

Delete All
Bluetooth
Pairing
Information

(lowest)

Bluetooth stereo music

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

11.2 Firmware Upgrades

The Bluetooth system supports firmware upgrades. You can upgrade the firmware using the **Boom Audio Bluetooth Device Manager**. Please visit oem.sena.com/harley-davidson on to check for the latest software downloads.

Click Here to Visit
oem.sena.com/harley-davidson



11. GENERAL SETTINGS

11.3 Voice Prompts (Default: Enabled)

Function
Priority

Firmware
Upgrades

Voice Prompts

Sidetone

Delete All
Bluetooth
Pairing
Information

A **Voice prompt** setting can be found in the settings menu, accessible through **Boom Audio Bluetooth Device Manager** or **Sena Smartphone App**.

If **Voice prompt** is enabled, you can hear **Voice prompts** for different kinds of features. If **Voice prompt** is disabled, **Voice prompts** are silenced except for those in the Configuration Menu, battery level indication, speed dial, and FM radio functions.

11.4 Sidetone (Default: Disabled)

A **Sidetone** setting can be found in the settings menu, accessible through **Boom Audio Bluetooth Device Manager** or **Sena Smartphone App**.

Sidetone is the sound of your own voice as picked up by your Bluetooth system’s microphone and reproduced in your own ear, by your own speaker. It helps you to naturally speak at the correct level according to varying helmet noise conditions. If this feature is enabled, you can hear what you are speaking during an intercom conversation or a phone call.



11. GENERAL SETTINGS

11.5 Delete All Bluetooth Pairing Information

Function
Priority

Firmware
Upgrades

Voice Prompts

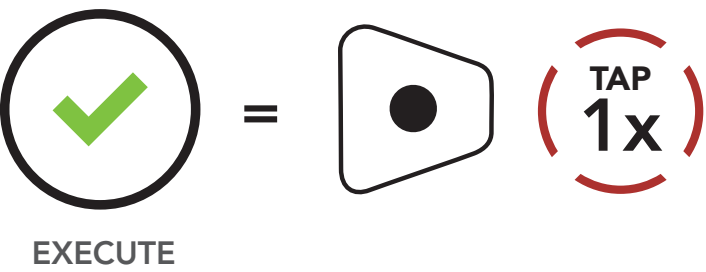
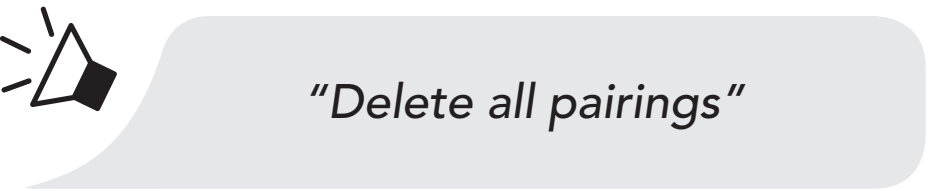
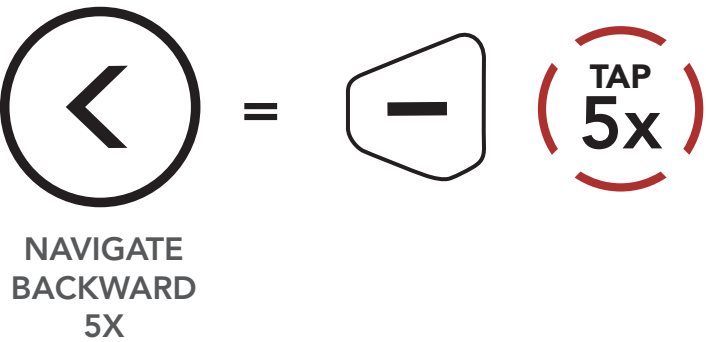
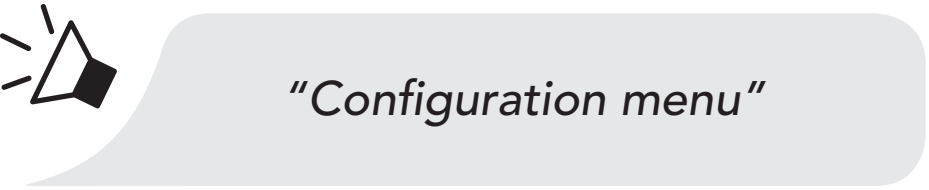
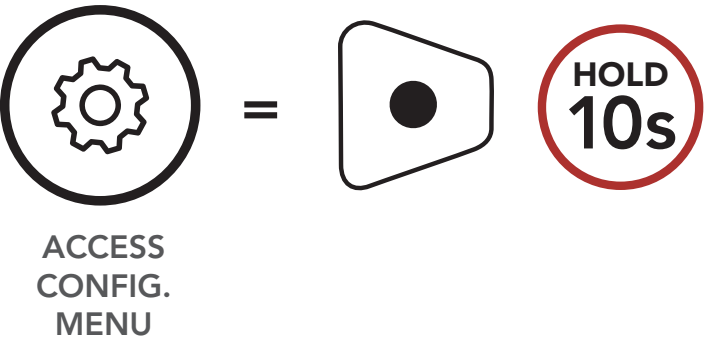
Sidetone

Delete All
Bluetooth
Pairing
Information

A **Delete All Bluetooth Pairing Information** setting can be found in the **Bluetooth System Configuration Menu**.

Tap the **Center Button** when in this menu to **Delete All Bluetooth Pairing Information** stored in the Bluetooth system.

Access Delete All Pairings in the Configuration Menu





Pairing with the Remote Control



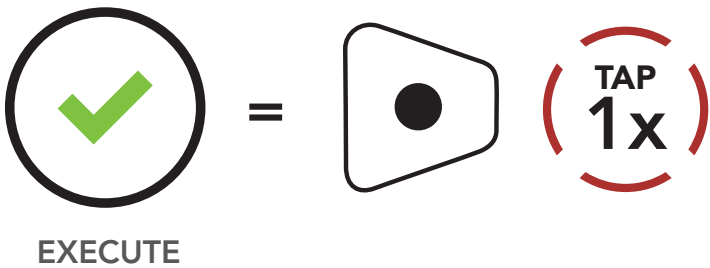
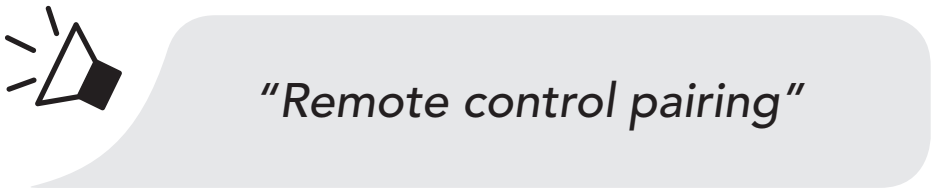
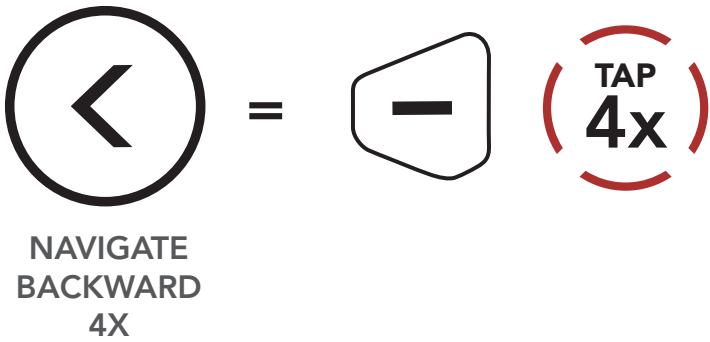
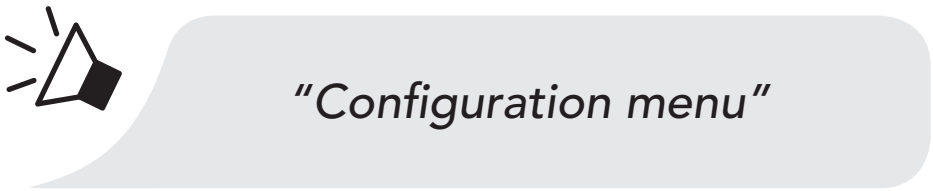
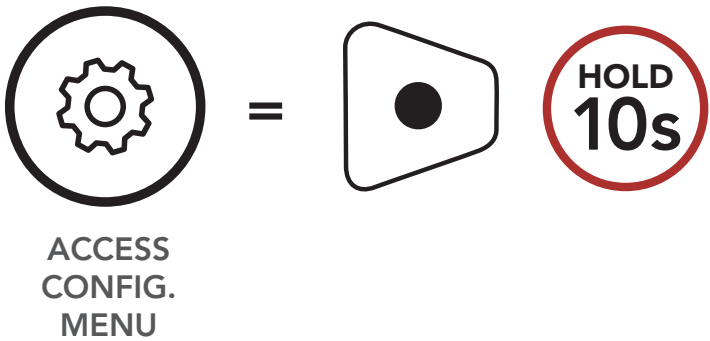
12. REMOTE CONTROL

You can remotely control the Bluetooth system using Sena Remote Control devices (sold separately) such as a Handlebar Remote or a Wristband Remote. This eliminates the need to remove your hands from the handlebars for button operations.

12.1 Pairing with the Remote Control

- 1. Turn on the Bluetooth system and the Remote Control device.
- 2. Execute **Remote Control Pairing** in the **Bluetooth System Configuration Menu**.

Access Remote Control Pairing in the Configuration Menu





Pairing with
the Remote
Control

12. REMOTE CONTROL

3. Enter pairing mode in the Remote Control device. The Bluetooth system will automatically connect with the Remote Control device in pairing mode. You will hear a voice prompt, **"Remote control connected"**, when they are successfully paired.

Enter Pairing Mode



=

Enter Pairing Mode
on Remote Control.

REMOTE
CONTROL



"Remote control connected"



13. TROUBLESHOOTING

Please visit **oem.sena.com/harley-davidson** for answers to frequently asked questions. This detailed online FAQ section deals with troubleshooting, illustrates case studies and contains tips on using the **Boom! Audio HD-N02**.

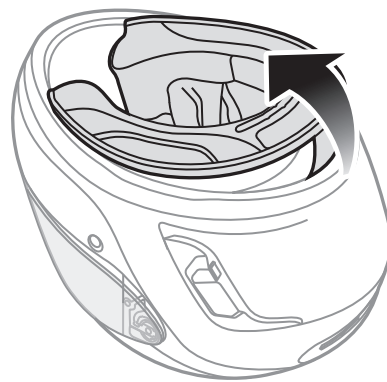
**Click Here to Visit
oem.sena.com/harley-davidson**

Fault Reset
Factory Reset

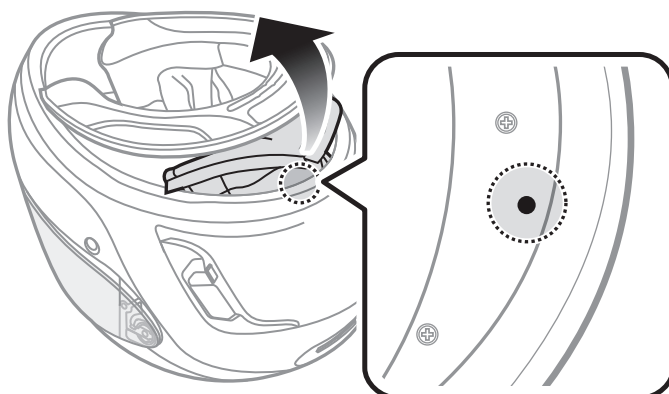
13.1 Fault Reset

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

1. Partially pull out the neck roll from the rear side of the helmet.



2. Locate the pinhole reset button as described below.



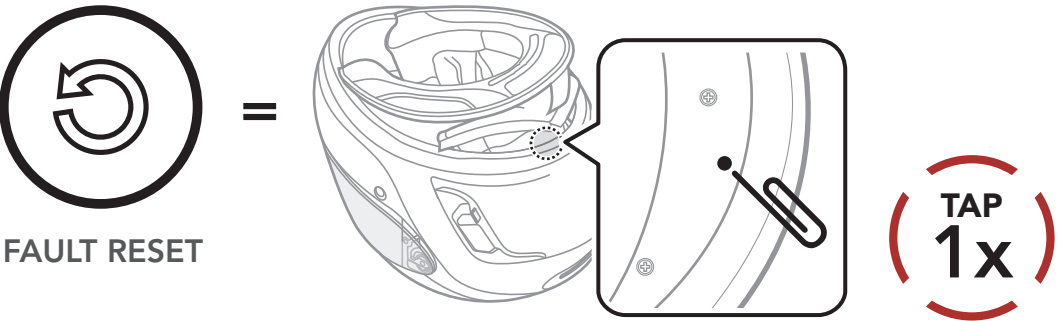


13. TROUBLESHOOTING

3. Gently insert a paperclip into the hole and tap the **Fault Reset Button** with light pressure.

Fault Reset
Factory Reset

Fault Reset



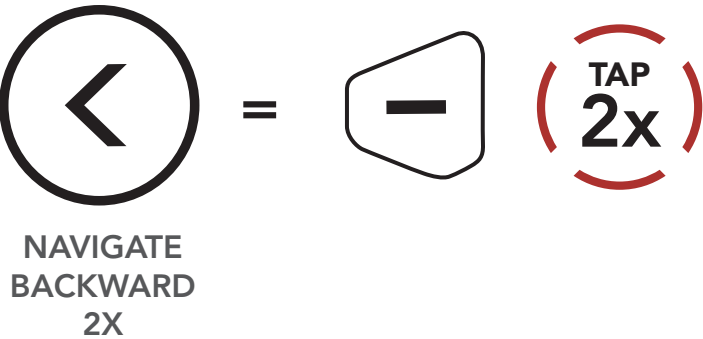
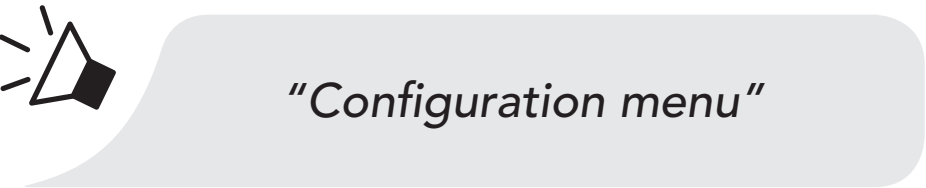
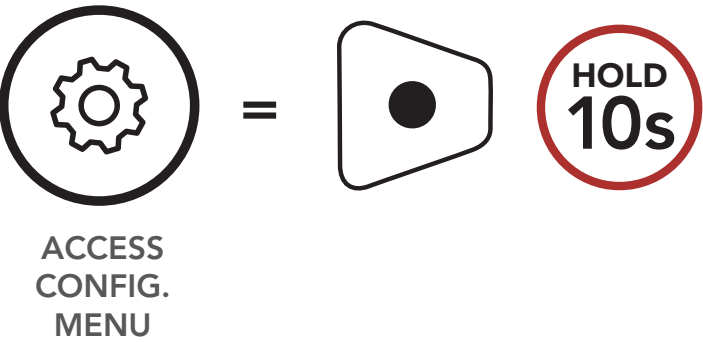
4. The Bluetooth system will shut down.

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

13.2 Factory Reset

To erase all of your settings and start fresh, the Bluetooth system can be restored to factory default settings using the **Factory Reset** feature in the **Bluetooth System Configuration Menu**.

Access Factory Reset in the Configuration Menu





13. TROUBLESHOOTING

Fault Reset
Factory Reset

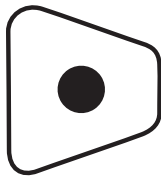


“Factory reset”



EXECUTE

=





14. MAINTENANCE AND CARE

14.1 Outer Shell

Use a soft cloth and a small amount of water to remove bugs from the exterior.

Note: Never use gasoline, diesel fuel, thinners or solvents to clean the helmet. These substances can cause serious damage to the helmet, even though the resulting damage may not be visible. The full safety function of the helmet can then no longer be guaranteed.

14.2 Inner Lining

The inner lining of the helmet is completely removable. Its headliner can be washed by hand using mild soap at a maximum temperature of 30°C (86°F). Allow the lining to dry at room temperature.

14.3 Storing the Helmet

Store the helmet in a dry, dark, well-ventilated location, out of the reach of children and animals. Always position the helmet so that it cannot fall to the floor. Damage that occurs in this way is not covered by the warranty.