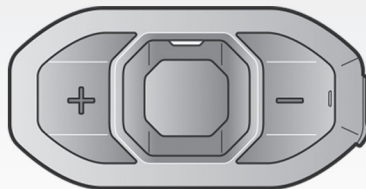


SF SERIES

Motorcycle Bluetooth®
Communication System



-  Bluetooth®
4.1
-  1.2 km
0.8 mile Intercom
-  Four-way
Intercom
-  Voice Prompt
-  Advanced
Noise Control
-  Universal
Intercom
-  Music Sharing
-  FM Radio
-  Group
Intercom
-  Firmware
Upgradeable
-  FM Sharing
-  Audio Source
Priority
-  Audio Overlay

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CONTENTS

1	INTRODUCTION	5
2	PACKAGE CONTENTS	6
3	INSTALLING THE SF SERIES ON YOUR HELMET	8
3.1	Installing the Main Unit.....	8
3.2	Installing the Speakers.....	10
3.3	Installing the Microphones.....	11
4	GETTING STARTED	12
4.1	Button Operation.....	12
4.2	Powering On and Off.....	13
4.3	Charging.....	13
4.4	Checking the Battery Level.....	13
4.5	Volume Adjustment.....	14
4.6	Muting the Microphone.....	14
4.7	Sena Softwares.....	14
5	PAIRING THE SF SERIES WITH BLUETOOTH DEVICES	15
5.1	Mobile Phone Pairing - Mobile Phone, Bluetooth Stereo Device.....	15
5.2	Second Mobile Phone Pairing - Second Mobile Phone, GPS, and SR10.....	16
5.3	Advanced Selective Pairing - A2DP Stereo or Handsfree.....	17
5.4	Intercom Pairing.....	18
6	MOBILE PHONE, GPS, SR10	20
6.1	Mobile Phone Call Making and Answering.....	20
6.2	Speed Dialing.....	21
6.3	GPS Navigation.....	22
6.4	Sena SR10, Two-Way Radio Adapter.....	22
7	STEREO MUSIC	23
7.1	Bluetooth Stereo Music.....	23
7.2	Music Sharing.....	23
8	INTERCOM	24
8.1	Two-way Intercom.....	24
8.2	Three-way Intercom.....	25
8.3	Four-way Intercom.....	27
9	THREE-WAY CONFERENCE PHONE CALL WITH INTERCOM PARTICIPANT	28
10	GROUP INTERCOM	29
11	UNIVERSAL INTERCOM	30
11.1	Universal Intercom Pairing.....	30
11.2	Two-way Universal Intercom.....	31
11.3	Three-way Universal Intercom.....	31
11.4	Four-way Universal Intercom.....	33
12	FM RADIO	35
12.1	FM Radio On and Off.....	35
12.2	Preset Stations.....	35
12.3	Seek and Save.....	35
12.4	Scan and Save.....	36
12.5	Temporary Preset.....	36
12.6	FM Sharing.....	36
12.7	Region Selection.....	37
13	FUNCTION PRIORITY	37
14	HEADSET CONFIGURATION SETTINGS	38
14.1	Mobile Phone Pairing.....	39
14.2	Second Mobile Phone Pairing.....	39
14.3	GPS Pairing.....	40
14.4	Phone Selective Pairing.....	40
14.5	Media Selective Pairing.....	40
14.6	Delete All Bluetooth Pairing Information.....	40

14.7 Remote Control Pairing	41
14.8 Universal Intercom Pairing	41
14.9 Factory Reset	41
14.10 Exit Voice Configuration Menu	41
15 SOFTWARE CONFIGURATION SETTINGS	42
15.1 Assigning Speed Dial	42
15.2 Setting Audio Source Priority (Default: Intercom).....	42
15.3 Enabling/Disabling Audio Boost (Default: Disable).....	43
15.4 Enabling/Disabling Smart Volume Control (Default: Disable)	43
15.5 Enabling/Disabling Voice Activated Phone Answering (Default: Enable).....	43
15.6 Enabling/Disabling Voice Activated Intercom (Default: Disable).....	43
15.7 Enabling/Disabling HD Voice (Default: Disable)	44
15.8 Enabling/Disabling HD Intercom (Default: Enable).....	44
15.9 Setting VOX Sensitivity (Default: 3).....	44
15.10 Enabling/Disabling Voice Prompts (Default: Enable)	45
15.11 Enabling/Disabling RDS AF (Default: Disable)	45
15.12 Enabling/Disabling FM Station Guide (Default: Enable)	45
15.13 Enabling/Disabling Sidetone (Default: Disable)	45
15.14 Enabling/Disabling Advanced Noise Control™ (Default: Enable)	46
15.15 Enabling/Disabling Audio Overlay™ (Default: Disable)	46
16 FIRMWARE UPGRADE	48
17 TROUBLESHOOTING	48
17.1 Fault Reset.....	48
17.2 Factory Reset	48

1 INTRODUCTION

Thank you for choosing the Sena SF Series, Bluetooth Stereo Headset and Intercom. With the SF Series, you can call handsfree on your Bluetooth mobile phone or listen to stereo music or voice instructions of GPS navigations wirelessly.

- SF4 is a Multi-way intercom headset.
- SF1/SF2 is a Two-way intercom headset.

Please read this User's Guide carefully before using the headset. Also check www.sena.com for the latest version of the User's Guide and additional information related to Sena Bluetooth products.

The SF Series feature:

- Bluetooth 4.1
- SF4 Bluetooth intercom up to 1.2 kilometers (0.8 miles)*
- SF2 Bluetooth intercom up to 800 meters (880 yards)*
- SF1 Bluetooth intercom up to 100 meters (110 yards)*
- Up to four-way intercom
- Three-way conference phone call with intercom participant**
- SF Utility App for iPhone and Android phones
- Audio Overlay™
- Built-in FM radio tuner with a station scan and save function**
- FM Sharing**
- Music Sharing
- Advanced Noise Control™
- Microphone mute option
- Smart Volume
- Universal Intercom™
- Group Intercom™**
- HD quality crystal clear and natural sound

- Firmware upgradeable
- Water resistant

.....
* In open terrain

** Only available in SF4

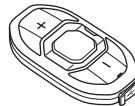
*** Only available in SF2 and SF4

Key Specifications:

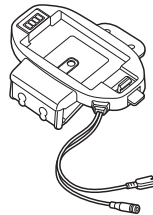
- Bluetooth 4.1
- Supporting profiles: Headset Profile, Hands-Free Profile (HFP), Advanced Audio Distribution Profile (A2DP), and Audio Video Remote Control Profile (AVRCP).

2 PACKAGE CONTENTS

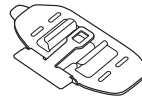
- **Headset Main Unit**



- **Clamp Kit**



- **Glued Surface Mounting Adapter**



Speaker

SF1

- **Speakers**



- **Hook and Loop Fasteners for Speakers (2)**

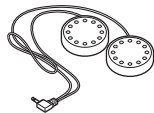


SF2, SF4

- **Speakers**



- **HD Speakers**



- **Hook and Loop Fasteners for Speakers (2)**

**Wired Boom Microphone**

- **Wired Boom Microphone**



- **Hook and Loop Fastener for Boom Microphone**



- **Microphone Sponges (2)**



- **Boom Microphone Holder**



- **Hook and Loop Fastener for Holder**

**Wired Microphone**

- **Wired Microphone**



- **Hook and Loop Fastener for Wired Microphone**

**Others**

- **USB Power & Data Cable (Micro USB Type)**

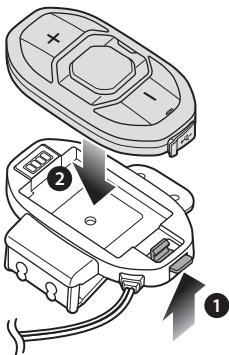


3 INSTALLING THE SF SERIES ON YOUR HELMET

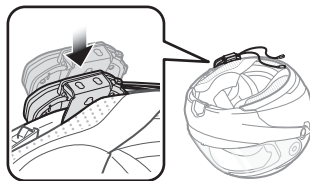
3.1 Installing the Main Unit

3.1.1 Installing the Clamp Kit to the Main Unit

1. Push and hold the clamp kit's tab upwards. While pushing the tab, insert the main unit into the clamp kit.



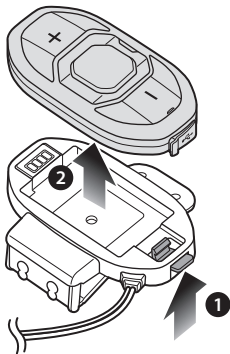
2. Insert the back plate of the clamp kit between the internal padding and external shell on the left side of the helmet.



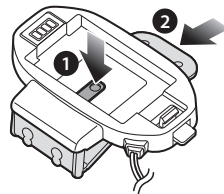
3.1.2 Using the Glued Surface Mounting Adapter for the Main Unit

If the clamp kit is not inserted into the helmet firmly, you can use the glued surface mounting adapter.

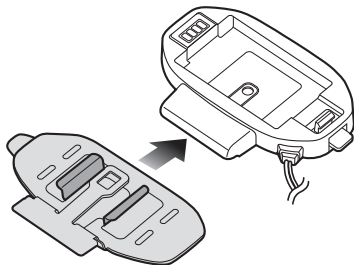
1. Make sure that the main unit is separated from the clamp kit. If not, push and hold the clamp kit's tab upwards and remove the main unit from the clamp kit.



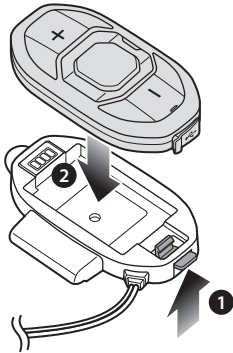
2. While pushing the latch at the center of the clamp kit, push the back plate of the clamp kit outwards to remove it.



3. Align the glued surface mounting adapter and the back of the clamp kit and slide the adapter into the clamp kit until you hear a click. Make sure that the glued surface mounting adapter fits the back of the clamp kit's grooves.

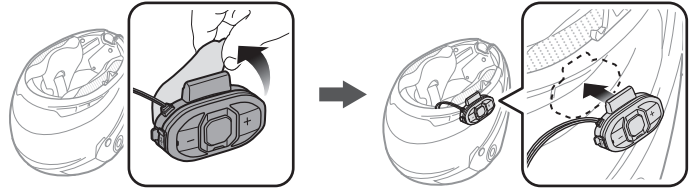


4. Push and hold the clamp kit's tab upwards. While pushing up the tab, insert the main unit into the clamp kit.



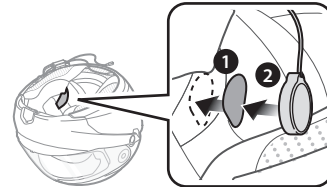
5. Clean the area on the left side of the helmet where you will attach the glued surface mounting adapter with a moistened towel and dry thoroughly.

6. Peel off the glued cover and attach the main unit on the left side of your helmet.

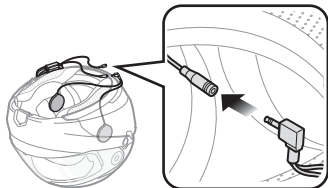


3.2 Installing the Speakers

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



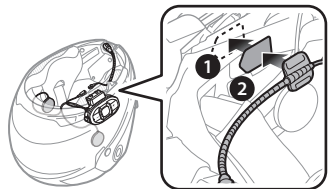
3. Connect the speaker cable to the speaker connector.



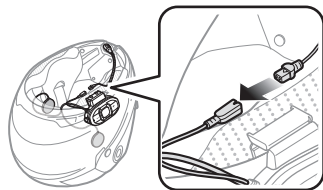
3.3 Installing the Microphones

3.3.1 Using the Wired Boom Microphone

1. Peel off the cover of the hook and loop fastener for the wired boom microphone to expose the adhesive tape.
2. Attach the hook and loop fastener on the inside surface of the left external shell, and then attach the wired boom microphone's mounting plate to the hook and loop fastener.

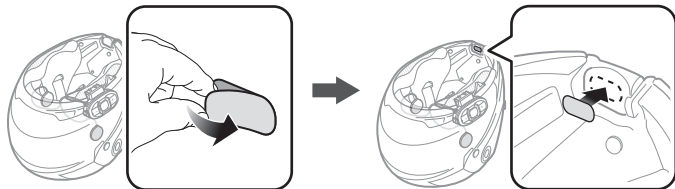


3. Align the arrows on the main unit and microphone cables and insert the microphone cable into the microphone connector.

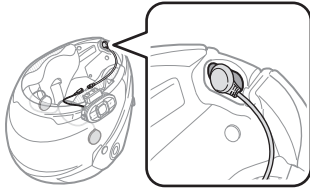


3.3.2 Using the Wired Microphone

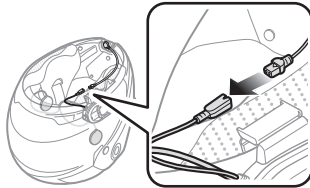
1. Peel off the cover of the hook and loop fastener for the wired microphone to expose the adhesive tape. Then, attach the hook and loop fastener on the inside of the helmet's chin guard.



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

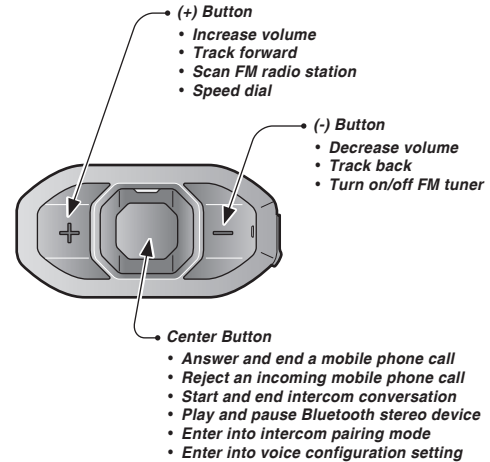


3. Align the arrows on the main unit and microphone cables and insert the microphone cable into the microphone connector.



4 GETTING STARTED

4.1 Button Operation

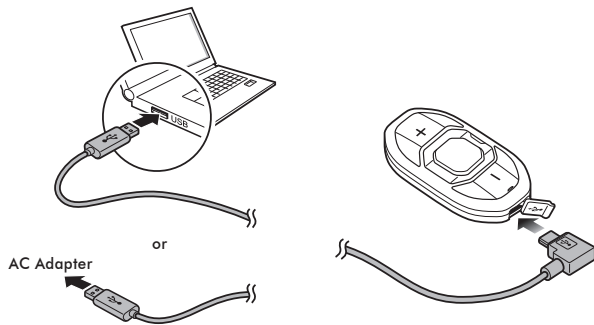


4.2 Powering On and Off

To power on the headset, press the Center Button and the (+) Button at the same time for 1 second while hearing ascending beeps and a voice prompt, **“Hello”**. To power off the headset, tap the Center Button and the (+) Button at the same time while hearing descending beeps and a voice prompt, **“Goodbye”**.

4.3 Charging

You can charge the headset by connecting the supplied USB power & data cable into a computer's USB port or USB wall charger. You can use any standard micro USB cable to charge the unit. The charging LED turns red while charging and turns blue when fully charged. It takes about 1.5 hours to be completely charged.



4.4 Checking the Battery Level

4.4.1 LED Indicator

When the headset is powering on, the red LED flashes rapidly indicating the battery level.

4 flashes = High, 70 ~ 100%

3 flashes = Medium, 30 ~ 70%

2 flashes = Low, 0 ~ 30%

4.4.2 Voice Prompt Indicator

When you power on the headset, keep pressing the Center Button and the (+) Button simultaneously for about 5 seconds. Then you will hear a voice prompt indicating the battery level. However, if you release the buttons as soon as the headset turns on, you will not hear a voice prompt for the battery level indication.

4.5 Volume Adjustment

You can easily adjust the volume by tapping the (+) Button or the (-) Button. The volume is set and maintained independently at different levels for each audio source even when you reboot the headset. For example, once you set the volume for mobile phone handsfree, it will not change even if you adjust the volume for your Bluetooth MP3 music. However, if you adjust the volume during stand-by mode, it will affect volume levels of every audio source.

4.6 Muting the Microphone

To mute or unmute the microphone, press and hold the Center Button and the (-) Button for 1 second. When the microphone is muted, you will hear descending beeps every 10 seconds. When you unmute the microphone, you will hear ascending beeps and the microphone will be active.

4.7 Sena Softwares

4.7.1 Sena Device Manager

The Sena Device Manager allows you to upgrade the firmware and configure the device settings directly from your PC. Using this software, you can assign speed dial presets, FM radio frequency presets and more. It is available for both Windows and Mac. For more information on downloading the Device Manager, please visit www.sena.com.

4.7.2 Sena SF Utility App

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

- Download
 - Android: Google Play Store > **Sena SF Utility**
 - iOS: App Store > **Sena SF Utility**

5 PAIRING THE SF SERIES WITH BLUETOOTH DEVICES

Before using the SF Series Bluetooth headset with any other Bluetooth devices for the first time, you will need to pair them together. You can pair the SF Series with Bluetooth mobile phones, Bluetooth stereo devices such as MP3 players, or motorcycle specific Bluetooth GPS navigation, and with other Sena Bluetooth headsets. The pairing operation is required only once for each Bluetooth device. The headset remains paired with the devices and automatically reconnects to them when they are within range. You will hear a high-toned single beep and a voice prompt whenever the headset reconnects to the paired device: **“Phone connected”** to a mobile phone, **“Media connected”** to a Bluetooth stereo device.

5.1 Mobile Phone Pairing - Mobile Phone, Bluetooth Stereo Device

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. By tapping the (+) Button, you will hear the voice prompt, **“Phone pairing”**.

3. Search for Bluetooth devices on your mobile phone. Select the Sena SF Series in the list of the devices detected on the mobile phone.
4. Enter 0000 for the PIN. Some mobile phones may not ask for the PIN.
5. The mobile phone confirms that pairing has completed and the SF Series are ready to use. You will hear a voice prompt, **“Your headset is paired”**.
6. If the pairing process is not completed within three minutes, the SF Series will return to stand-by mode.

Note:

1. If a Bluetooth connection between the headset and a mobile phone is disconnected, press the Center Button for 3 seconds until you hear a high-toned single beep to recover the Bluetooth connection immediately.
2. If the Bluetooth connection between the headset and a media player is disconnected, press the Center Button for 1 second to recover the Bluetooth connection and play.

5.2 Second Mobile Phone Pairing - Second Mobile Phone, GPS, and SR10

Typical Bluetooth headsets can connect with only one Bluetooth device, but a second mobile phone pairing allows the headset to connect with another Bluetooth device such as a second mobile phone, an MP3 Player, or the Sena SR10, the Bluetooth adapter.

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. Tap the (+) Button until you hear a voice prompt, **“Second mobile phone pairing”**.
3. Search for Bluetooth devices on your mobile phone. Select the Sena SF Series in the list of the devices detected on the mobile phone.
4. Enter 0000 for the PIN. Some mobile phones may not ask for the PIN.
5. The mobile phone confirms that the pairing has completed and the SF Series are ready to use. You will hear a voice prompt, **“Your headset is paired”**.

Note:

1. *If you have two audio (A2DP) devices connected to your headset then the audio from one device will interrupt the audio from the other device. For example, if you are playing music from the primary mobile phone, then it can be interrupted by playing music from the secondary mobile phone and vice versa.*
2. *You have to use a motorcycle specific GPS, which transmits turn-by-turn voice instructions to the headset by Bluetooth. Most automotive GPS systems do not have this feature.*
3. *The Sena SR10 is a Bluetooth two-way radio adapter for group communication, and uses Hands-Free Profile. The incoming audio from the two-way radio via SR10 is heard in the background while having an intercom conversation or a mobile phone call.*
4. *The GPS navigation or a radar detector could be connected to the SR10 by wire. The GPS voice instruction or the radar detector alarm is also heard in the background via SR10 while having an intercom conversation or a phone call. Please refer to the SR10 User's Guide for details.*

5.3 Advanced Selective Pairing - A2DP Stereo or Handsfree

When you are using a smartphone, sometimes you may need to selectively use the SF Series for A2DP stereo music only or for mobile phone handsfree only. These instructions are for advanced users who want to pair the SF Series to their smartphones with only one selective profile: A2DP for stereo music or HFP for phone calls.

If you have previously paired a mobile phone to the SF Series, you must clear the previous pairing list on both devices: the mobile phone and the SF Series. To clear the pairing list on the SF Series, please do a factory reset or following the pairing list clearing procedure described in section 14.9, “Factory Reset” or 14.6, “Delete All Bluetooth Pairing Information”. To clear the pairing list on the mobile phone, please refer to *the mobile phone manual*. For most smartphones, delete the Sena SF Series from the list of Bluetooth devices in the settings menu.

5.3.1 A2DP Stereo Music Only

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. Tap the (+) Button until you hear the voice prompt, “**Media selective pairing**”.
3. Search for Bluetooth devices on your smartphone. Select the Sena SF Series in the list of devices detected on your phone.
4. Enter 0000 for the PIN. Some mobile phones may not ask for the PIN.

5.3.2 HFP for Phone Call Only

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. Tap the (+) Button until you hear the voice prompt, “**Phone selective pairing**”.
3. Search for Bluetooth devices on your smartphone. Select the Sena SF Series in the list of devices detected on your phone.
4. Enter 0000 for the PIN. Some mobile phones may not ask for the PIN.

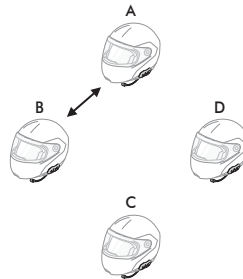
5.4 Intercom Pairing

5.4.1 Pairing with Other Headsets for Intercom Conversation

The SF4 headset can be paired with up to three other headsets for Bluetooth intercom conversation.

1. Turn on the two headsets (A and B) that you would like to pair with each other.
2. Press and hold the Center Button for 5 seconds, then you will hear a mid-toned single beep and the voice prompt, “**Intercom pairing**”.

3. Simply tap the Center Button of any one of the two headsets A or B and wait until the intercom connection is automatically established. The two headsets A and B are paired with each other for intercom conversation. If the pairing process is not completed within one minute, the headset will return to stand-by mode.



Pairing A & B

4. You can make other pairing between headsets A and C, and between headsets A and D by following the same procedure as above.
5. The intercom pairing queue is '**Last-Come, First-Served**'. If a headset has multiple paired headsets for intercom conversations, the last paired headset is set as **first intercom friend**. The previous intercom friend becomes **second intercom friend**, and **third intercom friend**.

Note:

*For example, after the pairing procedures listed above, headset D is the **first intercom friend** of headset A. Headset C is the **second intercom friend** of headset A, and headset B is the **third intercom friend** of headset A.*

5.4.2 Pairing with Other Sena Headset Models for Intercom Conversation

The headset can be paired with all other Sena headset models such as the 20S, SMH10 and the SMH5 for intercom conversation. Please follow the same procedure as above to pair with these headset models.

Note:

The SMH5 cannot participate in three-way or four-way conference intercom with the SF4. The SMH5 has a limited capability of having two-way intercom with other Sena headsets.

6 MOBILE PHONE, GPS, SR10

6.1 Mobile Phone Call Making and Answering

1. When you have an incoming call, tap the Center Button to answer the call.
2. You can also answer the incoming call by loudly speaking any word of your choice if *Voice Activated Phone Answering* (VOX Phone) is enabled, unless you are connected to intercom.
3. To end a call, press the Center Button for 2 seconds until you hear a mid-tone single beep, or wait for the called person to end the call.
4. To reject a call, press the Center Button for 2 seconds until you hear a beep while the phone is ringing.
5. There are several ways to make a phone call:
 - Enter numbers on your mobile phone's keypad and make a call. Then the call is automatically transferred to the headset.
 - In stand-by mode, press the Center Button for 3 seconds, to activate the voice dialing of your mobile phone. For this, the voice dialing function must be available on the mobile phone. Refer to *your mobile phone manual* for further instruction.

Note:

1. If you have two phones connected to your headset and you have an incoming call from the second phone during the call of the first phone, then you may still receive the call from the second phone. In this case, the call from the first phone is on waiting mode. If you end a call, then it will automatically guide you to the first phone call.
2. If you have a mobile phone and a GPS connected to your headset, you may not be able to listen to the GPS voice instruction during the phone call.

6.2 Speed Dialing

You can quickly make a phone call by using the voice speed dial menu.

1. To enter into the voice speed dial menu, press and hold the (+) Button for 3 seconds and you will hear a mid-toned single beep and a voice prompt saying “**Speed dial**”.
2. Tap the (+) Button or the (-) Button to navigate between the menus. You will hear voice prompts for each menu item.
3. Tap the Center Button to select a voice menu among the followings:

(1) Last number redial

(4) Speed dial 3

(2) Speed dial 1

(5) Cancel

(3) Speed dial 2

4. After selecting the last number redial menu, you will hear a voice prompt, “**Last number redial**”. Then, to redial the last phone call number, tap the Center Button.
5. To call one of the speed dials, tap the (+) Button or the (-) Button to navigate between the menus until you hear a voice prompt saying “**Speed dial (#)**”. Then, tap the Center Button.
6. If you want to exit the speed dial immediately, tap the (+) Button or the (-) Button until you hear a voice prompt saying “**Cancel**”, and tap the Center Button. If you do not press any button within 15 seconds, the SF Series will exit the voice speed dial menu and go back to stand-by mode.

Note:

1. Make sure that you connect the mobile phone and the headset to use the speed dial function.
2. You need to assign speed dial numbers before using the speed dial (please refer to section 15.1, “Assigning Speed Dial”).

6.3 GPS Navigation

6.3.1 GPS Pairing

1. Turn on the headset and press the Center Button for 10 seconds until you hear high-toned double beeps. You will also hear a voice prompt saying "Configuration menu".
2. Triple tap the (+) Button and you will hear the voice prompt saying "**GPS pairing**".
3. Search for Bluetooth devices on the GPS navigation screen. Select the Sena SF Series in the list of the devices detected on the GPS.
4. Enter 0000 for the PIN.
5. The GPS confirms that pairing has completed and the SF Series are ready to use. You will hear a voice prompt saying "**Your headset is paired**".
6. If the pairing process is not completed within three minutes, the SF Series will return to stand-by mode.

Note:

When Audio Overlay is enabled, if you pair your GPS device via GPS Pairing, its instructions will not interrupt your intercom conversations, but will overlay with them.

6.3.2 GPS Pairing as Mobile Phone

If a GPS is not only used for turn-by-turn voice instructions but also is your preferred Bluetooth stereo music source, you can pair the GPS to the SF Series by following the simple procedures in 5.1, "Mobile Phone Pairing - Mobile Phone, Bluetooth Stereo Device". However, since some GPS systems support mobile phone bridging over Bluetooth, you can pair the mobile phone to the GPS to use your mobile phone. When you do this, the SF Series think the GPS is a mobile phone so you can no longer pair your mobile phone to the SF Series directly. Please refer to the user's guide of your GPS for details.

6.4 Sena SR10, Two-Way Radio Adapter

You can use a two-way radio and an intercom conversation or a mobile phone call simultaneously by using the Sena SR10, a Bluetooth Two-way Radio Adapter (please refer to section 5.2, "Second Mobile Phone Pairing - Second Mobile Phone, GPS, and SR10"). The incoming audio from the two-way radio via SR10 is heard in the background while having an intercom conversation or a mobile phone call. You can listen to music, answer a mobile call, have an intercom conversation and use a two-way radio via the SR10 for group communication. Please refer to the SR10 User's Guide for details.

7 STEREO MUSIC

7.1 Bluetooth Stereo Music

The Bluetooth audio device must be paired with the SF Series by following the “*Mobile Phone Pairing - Mobile Phone, Bluetooth Stereo Device*” procedures described in the *section 5.1*. The SF Series support the Audio/Video Remote Control Profile (AVRCP), so if your Bluetooth audio device also supports the AVRCP, you can use the SF Series to remotely control music playback. Not only can you adjust the volume but you can also use functions such as play, pause, next track and previous track.

1. To play or pause music, press the Center Button for 1 second until you hear a double beep.
2. To adjust the volume, tap the (+) Button or the (-) Button.
3. To track forward or track back, press and hold the (+) Button or the (-) Button for 1 second until you hear a beep.

7.2 Music Sharing

You can start sharing music with an intercom friend using Bluetooth stereo music during a two-way intercom conversation. When you terminate music sharing, you can go back to the intercom conversation. To start or terminate sharing music, press the Center Button for 1 second during an intercom conversation. To track forward or track back, press and hold the (+) Button or the (-) Button for 1 second.

Note:

1. Both you and your intercom friend can remotely control music playback such as track forward and track back.
2. Music sharing will be paused when you are using your mobile phone or listening to GPS instructions.
3. Music sharing will be terminated if the SF4 starts a multi-way intercom conference.
4. When Audio Overlay is enabled, if an intercom call is made when you are listening to music, music sharing will not work.

8 INTERCOM

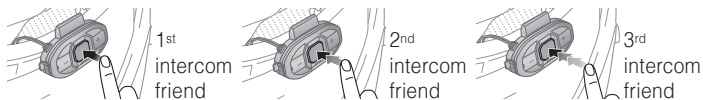
8.1 Two-way Intercom

8.1.1 Starting Two-way Intercom

You can start an intercom conversation with one of any intercom friends by tapping the Center Button. Tap the Center Button once to intercom with the **first intercom friend**, tap the Center Button twice to intercom with the **second intercom friend**, and tap the Center Button three times to intercom with the **third intercom friend**.

8.1.2 Ending Two-way Intercom

You can end an intercom conversation by using the Center Button. You can single tap to end intercom with the **first intercom friend**, double tap to end intercom with the **second intercom friend**, and triple tap to end intercom with the **third intercom friend**.



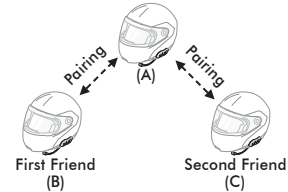
Start/End Two-way Intercom Conversation

8.2 Three-way Intercom (SF4)

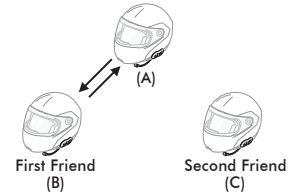
8.2.1 Starting Three-way Intercom

You (A) can have a three-way conference intercom with two other SF4 friends (B & C) by establishing two intercom connections simultaneously. While a three-way conference intercom is in progress, mobile phone connection of all three participants is temporarily disconnected. However, as soon as the conference intercom terminates or one of the participants leaves the intercom, all mobile phones automatically reconnect to their headsets. If you have an incoming mobile phone call during the conference intercom, terminate the conference intercom to automatically reconnect and receive the phone call.

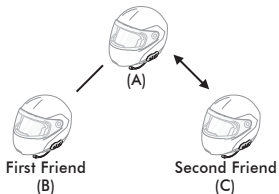
1. You (A) need to be paired with two other friends (B & C) for three-way conference intercom.



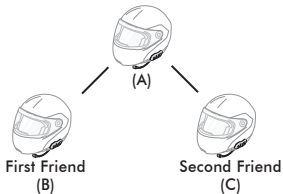
2. Start an intercom conversation with one of the two friends in your intercom group. For example, you (A) may start an intercom conversation with the intercom friend (B). Or intercom friend (B) may start an intercom call with you (A).



- You (A) can call the second intercom friend (C) by double tapping the Center Button, or the second intercom friend (C) may join the intercom by making an intercom call to you (A).



- Now you (A) and two SF4 intercom friends (B & C) are having a three-way conference intercom.



8.2.2 Ending Three-way Intercom

You can completely terminate the conference intercom or just disconnect an intercom connection with one of your active intercom friends.

- Press the Center Button for 3 seconds until you hear a beep to terminate three-way conference intercom completely. It terminates both intercom connections with (B) and (C).
- Tap or double tap the Center Button to disconnect intercom connection with one of the two intercom friends accordingly. For example, by single tapping the Center Button, you can terminate the intercom connection with just the first intercom friend (B). However, you still have the intercom connection with your second intercom friend (C).

Center Button Operation	Result
Press for 3 seconds	Disconnect (B) & (C)
Single tap	Disconnect (B)
Double tap	Disconnect (C)

End Three-way Intercom

8.3 Four-way Intercom (SF4)

8.3.1 Starting Four-way Intercom

You can have four-way conference intercom with three other SF4 users by adding one more intercom participant to the three-way intercom. While you are having a three-way intercom as above in *section 8.2, "Three-way Intercom (SF4)"*, a new participant (D), who is an intercom friend of your intercom friend (C), may join the conference intercom by making an intercom call to your intercom friend (C). Please note that in this case, the new participant (D) is an intercom friend of (C), not of you (A).

8.3.2 Ending Four-way Intercom

As same in the case of three-way intercom, you can completely get out of the four-way conference intercom or just disconnect a single intercom connection.

1. Press the Center Button for 3 seconds until you hear a beep to terminate four-way conference intercom. It terminates the intercom connections between you (A), and your intercom friends (B) and (C).

2. Tap or double tap the Center Button to disconnect the intercom connection with one of the two intercom friends accordingly. However, when you disconnect the second friend (C) by double tapping the Center Button, you will be disconnected with the third participant (D) as well. This is because the third participant (D) is connected with you via the second friend (C).

Center Button Operation	Result
Press for 3 seconds	Disconnect (B), (C) & (D)
Single tap	Disconnect (B)
Double tap	Disconnect (C) & (D)

End Four-way Intercom

Note:

Multiple headsets are connected during multi-way intercom. With various signals interfering each other, the intercom distance of multi-way intercom is relatively shorter than that of two-way intercom.

9 THREE-WAY CONFERENCE PHONE CALL WITH INTERCOM PARTICIPANT (SF4)

1. When you have an incoming mobile phone call during an intercom conversation, you will hear a ring tone. You can choose whether to *1) answer the mobile phone call and stop the intercom conversation, or 2) reject the phone call and stay on the intercom conversation.*
 - 1) To answer the phone call and stop the intercom conversation, tap the Center Button. The VOX Phone feature does not work if you are connected to intercom. When you hang up the phone call, the intercom will automatically be recovered.
 - 2) To reject the phone call and stay on the intercom conversation, press the Center Button for 2 seconds until you hear a beep.

Unlike other motorcycle Bluetooth headsets, this prevents a user from being dropped out of an intercom conversation by an incoming mobile call.

2. When you have an incoming intercom call during a mobile phone call, you will hear 4 high-toned beeps, alerting you that there is an incoming intercom call. You will also hear a voice prompt, **“Intercom requested”**. In this case, the intercom call does not override the mobile call because intercom has lower priority than mobile call. You have to hang up the mobile phone call to make or receive an intercom call.
3. You can have a three-way conference phone call by adding an intercom friend to the mobile phone conversation. During a mobile phone conversation, tap the Center Button to invite one of the intercom friends to the mobile phone line. To disconnect the intercom first and go back to your private mobile phone call, terminate the intercom by tapping the Center Button. To end the mobile phone call first and maintain the intercom conversation, tap the Center Button for 2 seconds, or wait for the person on the mobile phone line to end the call.

Start	Tap the Center Button while having a mobile phone call
End intercom first	Tap the Center Button
End phone call first	Tap the Center Button for 2 seconds or Wait for the called person to end the call

Start & End Three-way Conference Phone Call

10 GROUP INTERCOM (SF4)

Group Intercom allows you to instantly create a multi-way conference intercom with three other most recently paired headsets.

1. Go through intercom pairing with up to three headsets you want to have Group Intercom with.
2. Tap the (+) Button and (-) Button simultaneously to begin Group Intercom. The LED will flash green and you will hear a voice prompt, **“Group intercom connected”**.
3. To terminate Group Intercom, press the Center Button for 3 seconds during Group Intercom. You will hear a voice prompt, **“Group intercom terminated”**.

11 UNIVERSAL INTERCOM

You can have an intercom conversation with non-Sena Bluetooth headsets using the Universal Intercom function. Non-Sena Bluetooth headsets can be connected to the Sena Bluetooth headset if they support the Bluetooth Hands-Free Profile (HFP).

11.1 Universal Intercom Pairing

The headset can be paired with non-Sena Bluetooth headsets for Bluetooth intercom conversation. You can pair the headset with only one non-Sena Bluetooth headset so if you pair with a different non-Sena Bluetooth headset, the previous pairing will be removed.

1. Turn on the headset and a non-Sena Bluetooth headset that you want to pair with.
2. Press and hold the Center Button for 10 seconds to enter the configuration menu. Tap the (+) Button or the (-) Button until you hear a voice prompt, **“Universal intercom pairing”**. Tap the Center Button to enter into Universal Intercom Pairing mode. Please refer to *section 14.8, “Universal Intercom Pairing”* for more details.
3. Perform the operation required for handsfree pairing on the non-Sena Bluetooth headset (refer to *the User’s Manual for the headsets* you want to use). The headset will automatically pair with a non-Sena Bluetooth headset when each are in pairing mode.

11.2 Two-way Universal Intercom

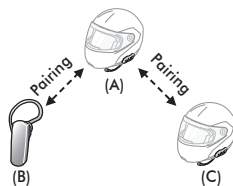
You can initiate the Universal Intercom connection with non-Sena Bluetooth headsets using the same intercom connection method as you would between other Sena headsets. You may single tap the Center Button to begin an intercom conversation with the first intercom friend, double tap with the second intercom friend, and triple tap with the third intercom friend.

Non-Sena Bluetooth headsets may initiate the Universal Intercom connection, by activating the voice dialer or using the redialing operation. You may also disconnect the existing connection by using the operation to end a call (refer to *the User's Manual for the headsets* for voice dialer, redialing, and ending a call).

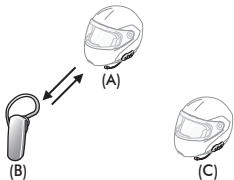
11.3 Three-way Universal Intercom (SF4)

You may make a three-way Universal Intercom connection with two SF4s and one non-Sena Bluetooth headset. If the intercom connection is made, all headsets connected cannot use the mobile phone call function since the connection between the headset and the phone is disconnected temporarily. If you disconnect the intercom call, the mobile phone connection is made again automatically so that you can use a mobile phone call function.

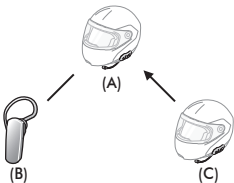
1. You (A) need to be paired with a non-Sena Bluetooth headset (B) and another SF4 headset (C) for the three-way conference intercom.



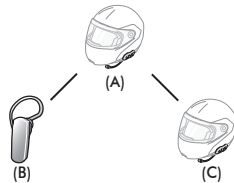
2. Start an intercom conversation with non-Sena Bluetooth headset (B) in your intercom group. For example, you (A) may start an intercom conversation with non-Sena Bluetooth headset (B). The non-Sena Bluetooth headset (B) may also start an intercom call with you (A).



3. The other SF4 (C) may join the intercom by making an intercom call to you (A).



4. Now you (A), non-Sena Bluetooth headset (B), and the other SF4 (C) are having a three-way conference intercom.



5. You may disconnect three-way Universal Intercom using the same way as you do in normal three-way intercom. Please refer to *section 8.2.2, "Ending Three-way Intercom"*.

11.4 Four-way Universal Intercom (SF4)

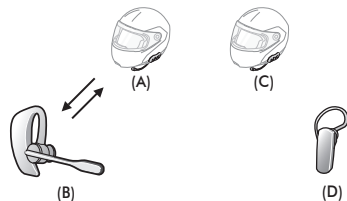
You may make a four-way Universal Intercom connection with a couple of different configurations, 1) *three SF4s and one non-Sena Bluetooth headset* or 2) *two SF4s and two non-Sena Bluetooth headsets*.

You may have a couple of other Four-way Universal Intercom configurations, 1) *your headset (A), a non-Sena Bluetooth headset (B), another SF4 (C), and a non-Sena Bluetooth headset (D)*, 2) *your headset (A), a non-Sena Bluetooth headset (B), and two other SF4 headsets (C and D)*. You may make the four-way Universal Intercom call the same way as a normal four-way intercom call.

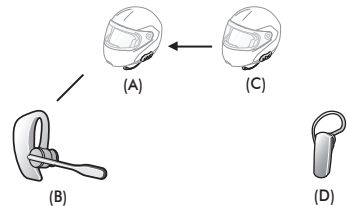
11.4.1 Four-way Universal Intercom Case 1

Two SF4 headsets (A and C) and two non-Sena Bluetooth headsets (B and D).

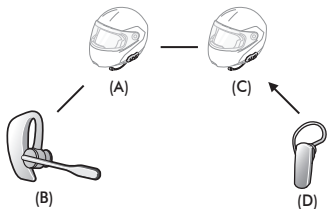
1. You (A) may start an intercom conversation with the non-Sena Bluetooth headset (B).



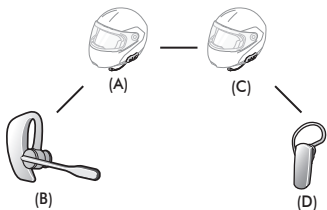
2. The other SF4 (C) may join the intercom by making an intercom call to you (A).



- The non-Sena Bluetooth headset (D) may join the conference intercom by making an intercom call to the SF4 (C).



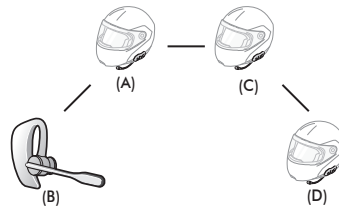
- Now two SF4 headsets (A & C) and two non-Sena Bluetooth headsets (B & D) are connected with the four-way Universal Intercom.



You may disconnect a four-way Universal Intercom using the same way as you do in a normal four-way intercom. Please refer to *section 8.3.2, "Ending Four-way Intercom"*.

11.4.2 Four-way Universal Intercom Case 2

Three SF4 headsets (A, C and D) and one non-Sena Bluetooth headset (B). The procedure is the same as case 1 described in *section 11.4.1*.



12 FM RADIO (SF4)

12.1 FM Radio On and Off

To turn on the FM radio, press the (-) Button for 1 second until you hear a mid-toned double beep sound. You will then hear a voice prompt, **“FM on”**. To turn off the FM radio, press the (-) Button for 1 second until you hear a voice prompt, **“FM off”**. When you power it off, the SF4 will remember the last station frequency. When you power it on, the last station frequency will be playing.

12.2 Preset Stations

You can listen to preset stations while listening to the FM radio. Press the Center Button for 1 second to go upward to your next saved preset station.

12.3 Seek and Save

“Seek” is the function that searches for station to station frequencies. To use the “Seek” function, please follow the procedure below:

1. Double tap the (+) Button or the (-) Button to search up or down the station dial.
2. If the tuner finds a station while searching frequencies, it stops the seek function.
3. To save the current station, press and hold the Center Button for 3 seconds until you hear a voice prompt, **“Preset (#)”**.
4. Tap the (+) Button or the (-) Button in order to select which preset number you want for that specific station. You can save up to 10 preset stations. (You may cancel the preset operation by waiting approximately 10 seconds. You will then hear **“Save preset cancelled”**. You can also tap the (+) Button or the (-) Button until you hear **“Cancel”**. Tap the Center Button to confirm cancellation. You will then hear **“Save preset cancelled”**.)
5. To save the current station, press the (+) Button for 1 second. You will then hear a voice prompt, **“Save preset (#)”**.
6. To delete the saved station in the preset number, press the (-) Button for 1 second. You will then hear a voice prompt, **“Delete preset (#)”**.

Note:

1. You can save FM stations to presets before using FM radio. Connect the SF4 to your PC and open the Sena Device Manager. It allows you to save up to 10 FM station frequency presets on the SF4 settings menu. You may do the same operation by using the Sena SF Utility App.
2. You can still answer an incoming phone call and intercom while listening to the FM radio.

12.4 Scan and Save

“Scan” is the function that automatically searches station frequencies, starting from the current frequency and up. To use the scan function, please follow the procedures below:

1. Press the (+) Button for 1 second. Then the current station frequency moves upward to find other station frequencies.
2. If the tuner finds a station, it stays at the station frequency for 8 seconds, then scanning to the next station frequency.
3. Scan function stops when you press the (+) Button for 1 second again.
4. To save a station while scanning frequencies, tap the Center Button at that station. You will hear a voice prompt, “**Save preset (#)**”. The station will be saved as the next preset number.
5. All stations preset during “Scan”, will overwrite previously set stations.

12.5 Temporary Preset

With the temporary preset function, you may temporarily preset stations automatically without changing the existing preset stations. Tap the (+) Button three times to automatically scan for 10 temporary preset stations. The temporary preset stations will be cleared when the system is powered off.

12.6 FM Sharing (SF4)

With FM sharing, you can listen to the radio during the intercom conversation. To start FM sharing, press the (-) Button for 1 second during the intercom conversation. During FM sharing, you can move to the next preset station and you or your friend on the intercom can change frequencies. If either person changes the frequency, the other will listen to the same frequency. To terminate FM sharing, press the (-) Button for 1 second or end the intercom call.

Note:

1. FM sharing will be terminated if the SF4 starts a multi-way intercom conference.
2. When Audio Overlay is enabled, if an intercom call is made while you are listening to the FM radio, FM sharing will not work.

12.7 Region Selection

You can select the proper FM frequency region from the Sena Device Manager. With the region setting, you may optimize the seek function to avoid unnecessary frequency ranges (factory default: worldwide).

Region	Frequency Range	Step
Worldwide	76.0 ~ 108.0 MHz	± 100 kHz
Americas	87.5 ~ 107.9 MHz	± 200 kHz
Asia	87.5 ~ 108.0 MHz	± 100 kHz
Australia	87.5 ~ 107.9 MHz	± 200 kHz
Europe	87.5 ~ 108.0 MHz	± 100 kHz
Japan	76.0 ~ 95.0 MHz	± 100 kHz

13 FUNCTION PRIORITY

The SF Series operate in the following order of priority:

(highest)

Mobile phone

Intercom/FM sharing*

Music sharing by Bluetooth stereo music

Bluetooth stereo music

(lowest)

FM Radio*

.....
*Only available in SF4

A lower priority function is always interrupted by a higher priority function. For example, stereo music is interrupted by an intercom call, and an intercom conversation is interrupted by an incoming mobile phone call.

Note:

If you select music as the audio source priority, the order of priority will change as below:

(highest)	Mobile phone
	Bluetooth stereo music
	Intercom/FM sharing*
	Music sharing by Bluetooth stereo music
(lowest)	FM Radio*

.....
*Only available in SF4

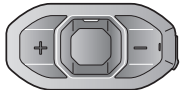
14 HEADSET CONFIGURATION SETTINGS

You can set the configuration of the SF Series by the voice menu instruction described below.

1. To enter into voice configuration menu, press and hold the Center Button for 10 seconds until you hear high-toned double beeps. You will also hear a voice prompt, “**Configuration menu**”.
2. Tap the (+) Button or the (-) Button to navigate between the menus. You will hear voice prompts for each menu item as below.
3. You can enable/disable a feature or execute a command by tapping the Center Button.
4. If no button is pressed within 10 seconds, the SF Series will exit the configuration and go back to stand-by mode.
5. If you want to exit the configuration immediately, tap the (+) Button or the (-) Button until you hear a voice prompt, “**Exit configuration**”, and tap the Center Button.

The voice prompt for each menu item is as below:

- | | |
|--|---------------------------------------|
| (1) Phone pairing | (6) Delete all pairings |
| (2) Second mobile phone pairing | (7) Remote control pairing |
| (3) GPS pairing | (8) Universal intercom pairing |
| (4) Phone selective pairing | (9) Factory reset |
| (5) Media selective pairing | (10) Exit configuration |



Phone pairing
Second mobile phone pairing
GPS pairing
Phone selective pairing
Media selective pairing
Delete all pairings
Remote control pairing
Universal intercom pairing
Factory reset
Exit configuration

14.1 Mobile Phone Pairing

Voice Prompt	“Phone pairing”
Factory Default	N/A

To go into mobile phone pairing mode, tap the (+) Button or the (-) Button until you hear the voice prompt, **“Phone pairing”**. Please refer to *section 5.1, “Mobile Phone Pairing - Mobile Phone, Bluetooth Stereo Device”* for details on mobile phone pairing. If you tap the (+) Button or the (-) Button, you can exit from the phone pairing mode.

14.2 Second Mobile Phone Pairing

Voice Prompt	“Second mobile phone pairing”
Factory Default	N/A

To go into second mobile phone pairing mode, tap the (+) Button or the (-) Button until you hear the voice prompt, **“Second mobile phone pairing”**. Please refer to *section 5.2, “Second Mobile Phone Pairing - Second Mobile Phone, GPS, and SR10”* for details on second mobile phone pairing. If you tap the (+) Button or the (-) Button, you can exit from the second mobile phone pairing mode.

14.3 GPS Pairing

Voice Prompt	“GPS pairing”
Factory Default	N/A

To go into GPS pairing mode, tap the (+) Button or the (-) Button until you hear the voice prompt, **“GPS pairing”**. Please refer *section 6.3.1, “GPS Pairing”* for details on GPS pairing. If you tap the (+) Button or the (-) Button, you can exit from the GPS pairing mode.

14.4 Phone Selective Pairing

Voice Prompt	“Phone selective pairing”
Factory Default	N/A

To go into phone selective pairing mode, tap the (+) Button or the (-) Button until you hear the voice prompt, **“Phone selective pairing”**. Please refer to *section 5.3.2, “HFP for Phone Call Only”* for details on phone selective pairing. If you tap the (+) Button or the (-) Button, you can exit from the phone selective pairing mode.

14.5 Media Selective Pairing

Voice Prompt	“Media selective pairing”
Factory Default	N/A

To go into media selective pairing mode, tap the (+) Button or the (-) Button until you hear the voice prompt, **“Media selective pairing”**. Please refer *section 5.3.1, “A2DP Stereo Music Only”* for details on media selective pairing. If you tap the (+) Button or the (-) Button, you can exit from the media selective pairing mode.

14.6 Delete All Bluetooth Pairing Information

Voice Prompt	“Delete all pairings”
Factory Default	N/A
Execute	Tap the Center Button

To delete all Bluetooth pairing information of the SF Series, tap the (+) Button or the (-) Button until you hear a voice prompt, **“Delete all pairings”**, and tap the Center Button to confirm.

14.7 Remote Control Pairing

Voice Prompt	“Remote control pairing”
Factory Default	N/A
Execute	Tap the Center Button

To enter into remote control pairing mode, tap the (+) Button or the (-) Button until you hear a voice prompt, **“Remote control pairing”**. Then tap the Center Button to enter into remote control pairing mode. The headset will automatically exit from the configuration menu.

14.8 Universal Intercom Pairing

Voice Prompt	“Universal intercom pairing”
Factory Default	N/A
Execute	Tap the Center Button

To enter into universal intercom pairing mode, tap the (+) Button or the (-) Button until you hear a voice prompt, **“Universal intercom pairing”**. Then tap the Center Button to enter into universal intercom pairing mode. The headset will automatically exit from the configuration menu.

14.9 Factory Reset

Voice Prompt	“Factory reset”
Factory Default	N/A
Execute	Tap the Center Button

To restore factory default settings on the SF Series, tap the (+) Button or the (-) Button until you hear a voice prompt, **“Factory reset”**, and tap the Center Button to confirm. The SF Series power off with a voice prompt, **“Headset reset, goodbye”**.

14.10 Exit Voice Configuration Menu

Voice Prompt	“Exit configuration”
Factory Default	N/A
Execute	Tap the Center Button

To exit voice configuration menu and get back to stand-by mode, tap the (+) Button or the (-) Button until you hear a voice prompt, **“Exit configuration”**, and tap the Center Button to confirm.

Tap (+) Button or (-) Button	Tap Center Button
Phone Pairing	None
Second Mobile Phone Pairing	None
GPS Pairing	None
Phone Selective Pairing	None
Media Selective Pairing	None
Delete All Pairings	Execute
Remote Control Pairing	Execute
Universal Intercom Pairing	Execute
Factory Reset	Execute
Exit Configuration	Execute

Voice Configuration Menu & Button Operations

15 SOFTWARE CONFIGURATION SETTINGS

In addition to the headset configuration menu, you can change the settings of the SF Series through the Sena Device Manager or the Sena SF Utility App.

15.1 Assigning Speed Dial

Assign phone numbers for speed dialing to make a phone call quickly.

15.2 Setting Audio Source Priority (Default: Intercom)

Audio Source Priority allows you to select the priority between the intercom and music (which includes GPS app instructions and message notifications) from a smartphone. If the intercom is selected as the audio source priority, your music will be interrupted during an intercom conversation. If music is selected as the audio source priority, intercom conversations will be interrupted while your music is heard.

Note:

Audio Source Priority is active only when Audio Overlay is disabled.

15.3 Enabling/Disabling Audio Boost (Default: Disable)

Enabling Audio Boost increases the overall maximum volume. Disabling Audio Boost reduces the overall maximum volume, but delivers more balanced sound.

15.4 Enabling/Disabling Smart Volume Control (Default: Disable)

Smart Volume Control automatically changes the level of the speaker volume based on the level of the environmental noise. When it is disabled, volume is controlled manually. You can enable the level adjustment by setting the sensitivity to low, medium, or high. Smart Volume Control responds to smaller environmental noises as the sensitivity level becomes higher.

15.5 Enabling/Disabling Voice Activated Phone Answering (Default: Enable)

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

15.6 Enabling/Disabling Voice Activated Intercom (Default: Disable)

If this feature 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. However, if you manually start an intercom conversation by tapping the Center Button, you have to terminate the intercom conversation manually.

However, if you start 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 headset, you can start intercom by voice again.

15.7 Enabling/Disabling HD Voice (Default: Disable)

HD Voice allows you to communicate in high-definition during phone calls. This feature increases the quality so that the audio will be crisp and clear during phone call conversations. If this feature is enabled, incoming phone calls will interrupt intercom conversations and audio from the SR10 will not be heard during intercom conversations. Three-Way Conference Phone Call with Intercom Participant will not be available if HD Voice is enabled.

Note:

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

15.8 Enabling/Disabling HD Intercom (Default: Enable)

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:

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

15.9 Setting VOX Sensitivity (Default: 3)

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

15.10 Enabling/Disabling Voice Prompts (Default: Enable)

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

- Voice prompts for headset configuration settings menu
- Voice prompts for battery level indicator
- Voice prompts for speed dial
- Voice prompts for FM radio functions

15.11 Enabling/Disabling RDS AF (Default: Disable) (SF4)

RDS AF allows a receiver to re-tune to the second frequency location when the first signal becomes too weak. With RDS AF enabled on the receiver, a radio station with more than one frequency can be used.

15.12 Enabling/Disabling FM Station Guide (Default: Enable) (SF4)

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.

15.13 Enabling/Disabling Sidetone (Default: Disable)

Sidetone is audible feedback of your own voice. 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.

15.14 Enabling/Disabling Advanced Noise Control™ (Default: Enable)

When Advanced Noise Control is enabled, the background noise is reduced during an intercom conversation. When it is disabled, the background noise is mixed with your voice during intercom.

Note:

If you use your SF Series with the Bluetooth Audio Pack for GoPro, you can enable or disable this feature only during Normal Audio Recording Mode. This feature is automatically disabled while in Ultra HD (UHD) Audio Mode.

15.15 Enabling/Disabling Audio Overlay™ (Default: Disable)

Audio Overlay allows you to hear the audio from two features simultaneously. When Audio Overlay is enabled, phone calls, GPS instructions and intercom conversations can be overlaid with audio from the FM radio, music or GPS app instructions from a smartphone in the background with reduced volume. Increasing or decreasing the volume of the audio in the foreground will also increase or decrease the volume of the overlaid audio in the background. The volume of the foreground audio can be adjusted using the headset. How much background audio that is heard can be adjusted using the SF Utility App. HD Intercom and Audio Source Priority become disabled temporarily when Audio Overlay is enabled.

Model	Foreground*			Background**	
	Phone	GPS	Intercom	FM Radio	Music or Smart Navi
SF4	○ ^A	○ ^A			
		○	○		
			○ ^B	○	○ ^B
		○ ^C		○ ^C	○
SF1/SF2	○ ^A	○ ^A			
		○	○		
			○ ^B		○ ^B
		○ ^C			○

Foreground and Background Combination Table

* Two audio sources in the foreground can be heard simultaneously with the same volume level.

** Only one background source can be heard at a time while listening to an audio source in the foreground.

- A. GPS instructions can be heard during phone calls and the volume level of both audio sources can be adjusted using the headset.
- B. GPS app directions will be heard in the background during intercom conversations.
- C. The FM radio will be heard in the background when GPS instructions are heard.

Note:

1. Audio Overlay will be activated during two-way intercom conversations with a headset that also supports this feature.
2. When Audio Overlay is disabled, the background audio source will return to its independent volume level.
3. For Audio Overlay 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.

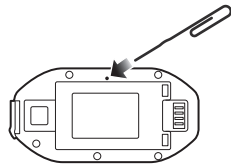
16 FIRMWARE UPGRADE

The SF Series support firmware upgrades. You can update the firmware using the Sena Device Manager. Please visit Sena Bluetooth website at www.sena.com to check the latest software downloads.

17 TROUBLESHOOTING

17.1 Fault Reset

When the SF Series are not working properly or is in faulty status for any reason, you may reset by gently pushing the pin-hole reset button on the back of the main unit. Insert a paper clip into the reset pin-hole and press the reset button for a second with light pressure. The SF Series will be switched off. Restart the system and try again. This will not restore the headset to factory default settings.



17.2 Factory Reset

If you want to restore the headset to factory default settings, use the Factory Reset in the configuration menu. The headset automatically restores the default settings and turns off. Please refer to *section 14.9, "Factory Reset"* for more details.

