

INSTRUCTION MANUAL

IP ADVANCED RADIO SYSTEM

iP503H

1 BEFORE USING	
2 BASIC OPERATION	
3 ADVANCED OPERATION	
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6 FOR YOUR REFERENCE	
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Icom Inc.

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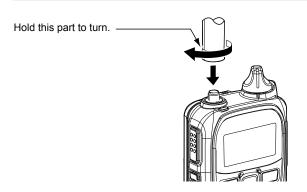
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Section 1

■ Attaching the antenna	1-2
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■ Attaching the antenna



CAUTION:

- NEVER carry the transceiver by holding only the antenna.
- Transmitting without an antenna may damage the internal circuit.

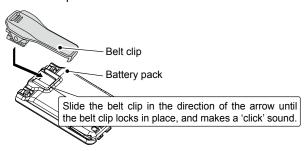
NOTE: You can use only the supplied antenna.

■ Attaching the hand strap



■ Attaching the belt clip

①Remove the battery pack before attaching or removing the belt clip.

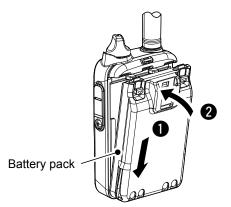




■ Attaching the battery pack

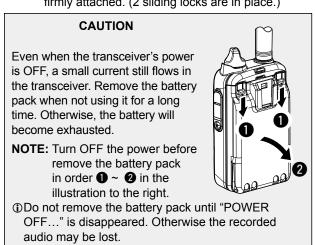
Fully charge the battery pack before turning ON for the first time, or after 2 month or more of no use.

①Refer to Section 5 for charging information.



Follow the order **1** ~ **2** on the illustration above.

NOTE: After attaching, check that the battery pack is firmly attached. (2 sliding locks are in place.)



■ Turning ON the power/Adjusting the audio level

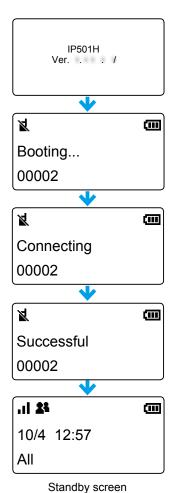
1

Turning ON the power

Turn [PWR/VOL] clockwise to the 12 o'clock position.
• A beep sounds.



The dial is made tight for the dust and water resistance.



The signal strength is represented by 3 bars.

In the 3G mode, the received signal strength is indicated by the set icon. In the LTE mode, the licon is displayed.

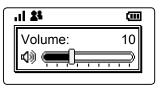
①When the transceiver location is out of the service area, or cannot receive the control signal, the (out-of-area) icon blinks. If the transceiver has not been registered, is displayed.

2 Adjusting the audio output level

Turn [PWR/VOL] to adjust the audio output level.

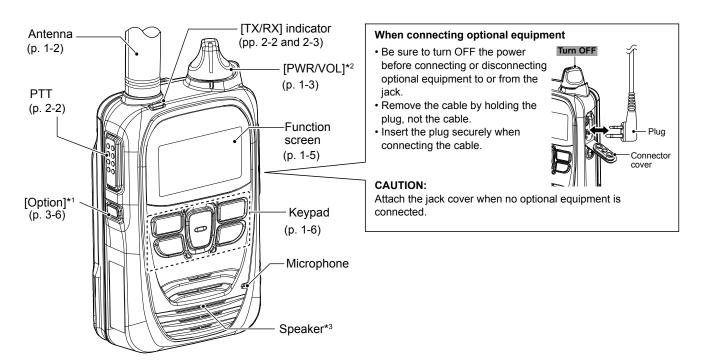
• The volume can be adjusted between 0 and 32.





NOTE: If the output level is set to minimum, the beep does not sound.

■ Panel description



NOTE: Instructions and screens on this guide may differ, depending on the settings.

^{*1} Ask for your dealer about the assigned function.

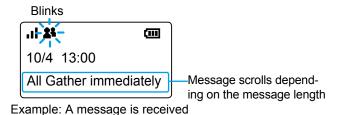
^{*2} When the Bluetooth function is used and the "Bluetooth Synchronous Volume" item is set to "Enable" (p. 4-6), the audio volume cannot be adjusted by [PWR/VOL] but [VOL] (+) or [VOL] (-) key on the Bluetooth device.

^{*3} While connecting an optional speaker microphone or the Bluetooth function (p. 5-8) is used, the audio is not output from the internal speaker.

■ Icons and indications



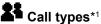
Standby screen



■ Signal strength

The signal strength is represented by 3 bars. When the transceiver location is out of the service area, or cannot receive the control signal, the (out-of-area) icon blinks.

If the transceiver has not been registered, is displayed. (p. 1-3)



: All/Group Call

👭: Talkgroup Call*²(p. 3-4)

: Individual Call : Phone Call*3

Recording function (p. 3-7)

Bluetooth function (p. 5-8)

Pocket beep (p. 3-10)

P-Bell function (p. 3-10)

Lock function (p. 1-7)

m

Remaining battery capacity

Represents the remaining capacity in 4 steps.

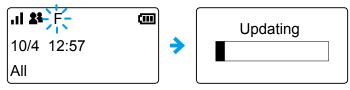






"F" blinks while downloading a new firmware:

- Do not turn OFF the transceiver until the download is finished. Place the transceiver in a good signal level area. Downloading takes approximately 10 minutes.
- After the downloading is finished, the firmware update will start. Updating takes approximately 1 minute.
- Do not turn OFF the transceiver. The transceiver will automatically restart when the update is finished.



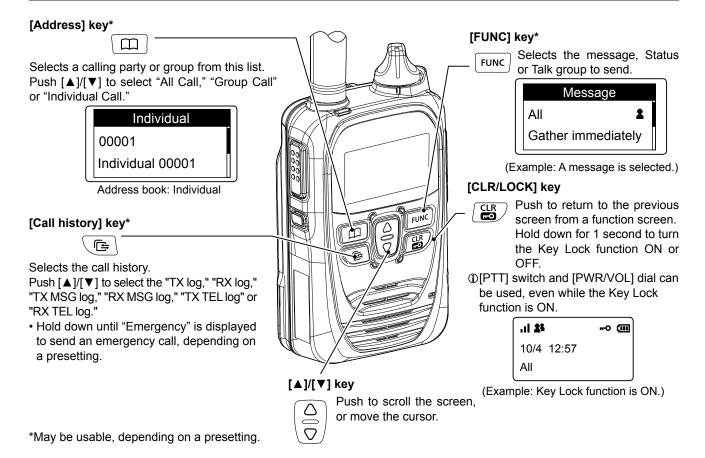
- If "F" has been displayed for more than 10 minutes, reboot the transceiver.
- If the battery status indication is 🔲 (nearing exhaustion) or 🔤 (exhausted), the firmware update will not start. Charge the battery pack, then restart the transceiver and do the firmware update.

^{*1}Blinks when a call or message is received.

^{*2}May be usable, depending on a presetting.

^{*3}Feature in the near future.

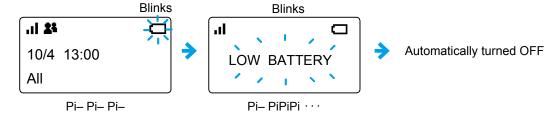
■ About the key operations



■ Battery alert beep

When the battery is almost exhausted, the battery status indicator "[__]" starts blinking, and warning beeps sound every 30 seconds. Charge the battery pack immediately. (Section 5)

When the battery is nearly exhaustion:



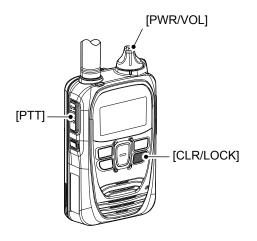
①When "LOW BATTERY" is displayed and beeps sound, the transceiver power will be automatically turned OFF soon.

■ Key Lock function

The Key Lock function prevents accidental function access.

① An Emergency call (p. 3-12) can be made, even while the Key Lock function is ON.

- Hold down [CLR/LOCK] for 1 second.





Standby screen



When a key is pushed while the Key Lock function is ON.

Section 2

■ Transmitting and receiving	2-2
■ Using the Address Book	2-4
■ Using the Call history	2-5

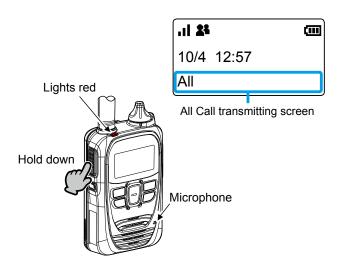
■ Transmitting and receiving



Hold down [PTT]

While holding down [PTT], speak into the microphone at your normal voice level.

• The [TX/RX] indicator lights red while [PTT] is pushed.

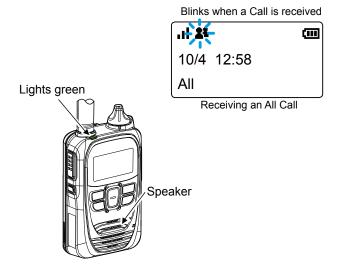


2 | 1

Receive a call

When a Call is received, the received audio is heard.

• [TX/RX] indicator lights green while receiving.



Calling tip:

Hold the transceiver 2.5 inch away from your mouth, and speak at your normal voice level. Talking too close to the microphone, or in a loud voice can distort your voice.

About the Time-out Timer:

When the continuos transmission period exceeds 5 minutes, the Time-out Timer automatically stops the transmission to prevent prolong transmissions.

Release the PTT, then hold down again to resume talking.

About the key touch beep:

Depending on a preset, a confirmation beep sounds when you push a key. (p. 4-5)

About the alert:

Depending on a preset, the alert that notifies the out of the service area or receive status sounds. (p. 4-5)

About the Vibration function:

Depending on a preset, the Vibration function indicates that a call is received. (p. 4-4)

■ Transmitting and receiving (continued)



Talk while receiving a call

While receiving a call, push [PTT] to talk in the full duplex mode* like a telephone call.

- ①In the Full Duplex mode, the [TX/RX] indicator lights orange.
- Turn [PWR/VOL] to adjust the audio output level. Do not cover the speaker or microphone.



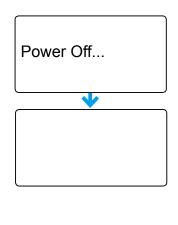
*Depending on a preset. Ask your dealer for details.

Turning OFF the power:

Turn [PWR/VOL] maximum counter clockwise until it makes a "click" sound.

- Wait for 10 seconds before you turn ON the transceiver again.
- Before you remove the battery pack from the transceiver, be sure that the transceiver power is OFF (The LCD is blank). (p. 1-2)





About the Simplex mode:

If the communication mode is set to Simplex by your dealer, you have to take turns to communicate: Push PTT to talk, release to receive.

①Push PTT after the other person finishes talking.①Saying "Over" at the end of your talk makes the communication smooth.

About the Back Light function:

Depending on a preset, the Back Light function operation differs. (p. 4-5)

Always OFF: Does not light.Always ON: Is always lit.

• On operation: When a Call is received or a key

(except [PTT] and [PWR/VPL]) is pushed, the Back Light lights, then automatically turns OFF after 5

seconds.

NOTE: When using the Audio Recording function

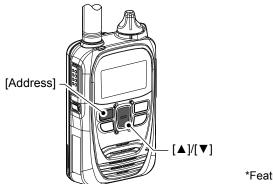
The recorded audio is stored into the internal memory on power OFF. Do not remove the battery pack until "POWER OFF..." is disappeared. Otherwise the recorded audio may be lost.

■ Using the Address Book

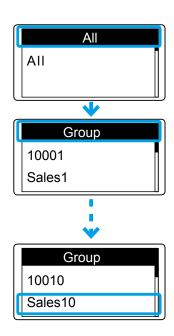
The [Address] key can be used, depending on a preset. Ask your dealer for details.

1 Select a call-to party from the Address book

- Push [Address] to select a Call type. (Example: Group call)
 Push this key several times to select "All," "Group (Talkgroup)," "Individual" or "Phone*."
- ① See page 3-4 about the Talk Group.
- 2. Push [▲]/[▼] to select a call-to party. (Example: Sales group 10)



*Feature in the near future.



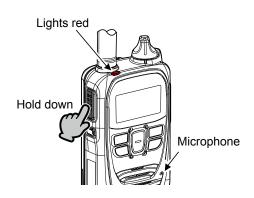
About the All or Group (Talkgroup) call:

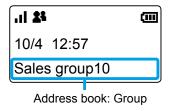
Ask your dealer for details for call type setting.

2 Hold down [PTT]

While holding down [PTT], speak into the microphone.

• The [TX/RX] indicator lights red.



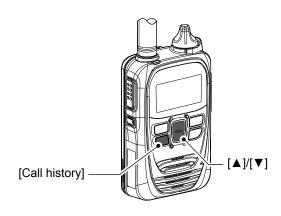


■ Using the Call history

The [Call history] key can be used, depending on a preset. Ask your dealer for details.

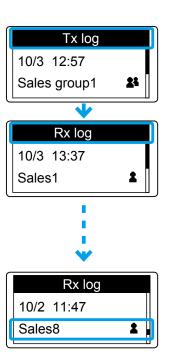
1 Select a call-to party from the Call history

- Push [Call history] to select a call history ("RX log").
 Push this key several times to select "TX log," "RX log," "TX MSG log," "RX MSG log," "TX TEL log" or "RX TEL log."
- 2. Push [▲]/[▼] to select a call-to party. (Example: Sales 8)



About the history log:

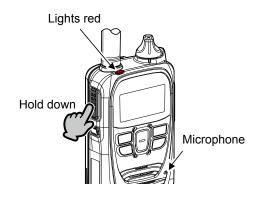
Up to 10 logs can be stored. The oldest log is automatically deleted when the 11th call is received.

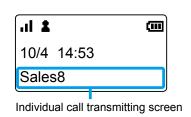


2 Hold down [PTT]

While holding down [PTT], speak into the microphone.

• The [TX/RX] indicator lights red.

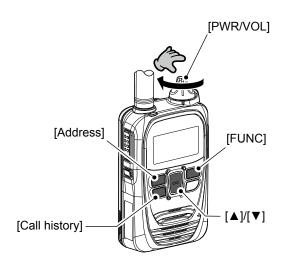


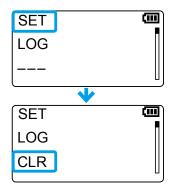


■ Using the Call history (continued)

Deleting history logs:

- 1. While holding down [FUNC], turn ON the power.
- 2. Release [FUNC] when "SET" is displayed.
- 3. Push [FUNC] or [Address] several times to select "LOG."
- 4. Push [▲]/[▼] to select "CLR," then push [Call history].
 All the histories except the recorded audio are deleted.
 ⑤ See page 3-9 for deleting the recorded audio.





Section 3

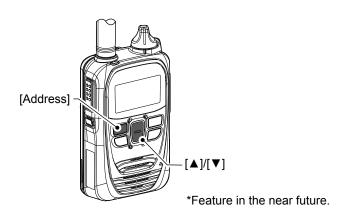
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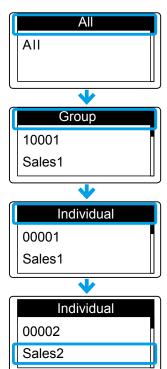
■ Sending a message (Message Call)

This function may be used, depending on a presetting. Ask your dealer for details.

1 Select a call-to party

- Push [Address] to select a Call type. (Example: Individual)
 Push this key several times to select "All," "Group (Talkgroup)," "Individual" or "Phone*."
 - ①See page 3-4 about the Talkgroup.
- Push [▲]/[▼] to select the call-to party to send the message to. (Example: Sales2)



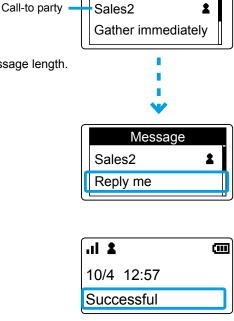


①You can select the call-to party also from the Call history (p. 2-5).

2 Select a message

- 1. Push [FUNC] to select "Message."
- 2. Push [▲]/[▼] to select a message.
 - The selected message may scroll, depending on the message length.
- 3. Push [PTT].



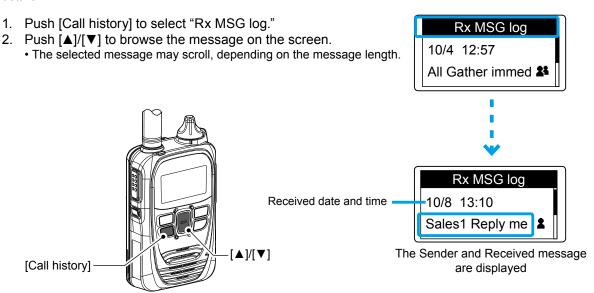


Message

When the Call type is set to "Individual," the call result (Success/Failed) is displayed after sending.

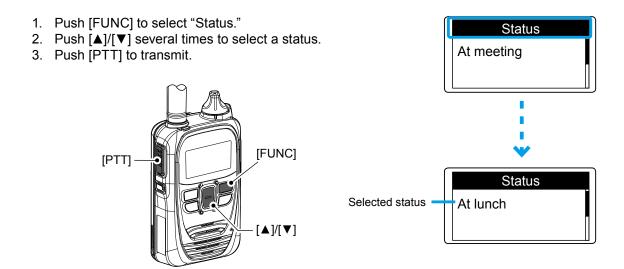
■ Viewing received messages

This function may be used only when the Talkgroup Call function is assigned to the [Call history] key. Ask your dealer for details.



■ Status Call

This function may be used only when the Status function is assigned to [FUNC], and the status (Example: "Meeting," "Break," and so on) is set. Ask your dealer for details.



■ About the Group (or Talkgroup) Call

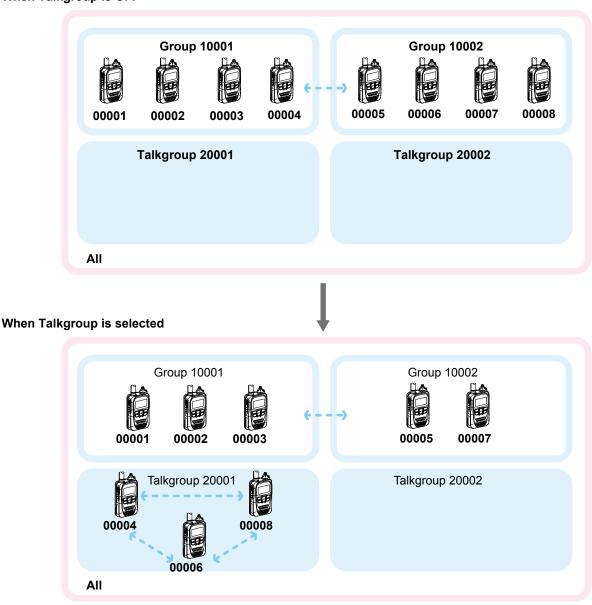
The Talkgroup Call function enables the user to communicate with call-to parties in the same Talkgroup.

For example, in the illustration below, when IP501H "00004" in its normal group "10001" selects Talkgroup "20001," it is excluded from group "10001," and can communicate with only IP501Hs "0006" and "0008" that belong to group "20001."

This function may be used only when the Talkgroup number is registered and the Talkgroup Call function is assigned to a key by your dealer.

① Ask your dealer about whether or not to include the Talkgroup in the All Call.

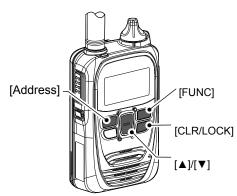
When Talkgroup is OFF

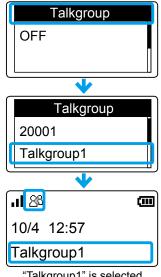


■ Selecting a Talkgroup number with the [FUNC] key

This function may be used only when the Talkgroup Call function is assigned to the [FUNC] key. Ask your dealer for details.

- 1. Push [FUNC] to select "Talkgroup."
- 2. Push [▲]/[▼] to select a Talkgroup number you want to belong to. (Example: 20001)
- 3. Push [CLR/LOCK].
 - The transceiver is ready to talk to only the transceivers that belong to the same Talkgroup.
 - While the Talkgroup number is selected, the Normal Group call cannot be made. (p. 3-4)
 - ①You can leave the Talkgroup and return to the Normal Group by selecting "OFF" in Step 2 on the "Talkgroup" screen.



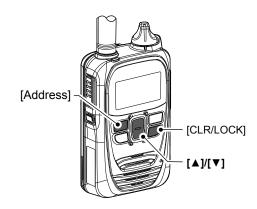


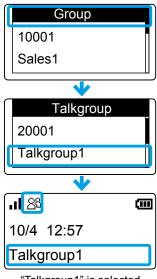
"Talkgroup1" is selected

■ Selecting a Talkgroup number with the [Address] key

This function may be used only when the Talkgroup Call function is assigned to [Address] key. Ask your dealer for details.

- 1. Push [Address] to select "Group."
 - Each push changes the Call type.
- 2. Push [▲]/[▼] to select a Talkgroup number you want to belong to. (Example: 20001)
- 3. Push [CLR/LOCK].
 - The transceiver is ready to talk to only the transceivers that belong to the same Talkgroup.
 - While the Talkgroup is selected, the Normal Group call cannot be made. (p. 3-4)
 - You can leave the Talkgroup and return to the Normal Group by selecting "OFF" in step 2 on the "Talkgroup" screen.





"Talkgroup1" is selected

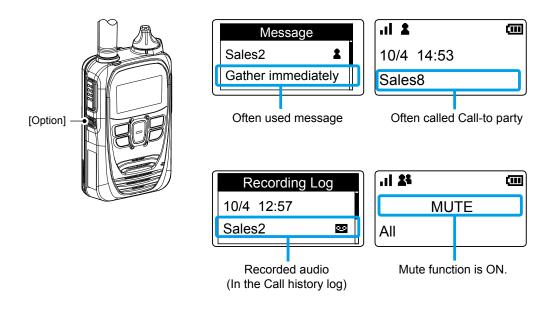
■ About the [Option] key

One of the following functions may be assigned to the [Option] key by your dealer. Ask your dealer for details.

ASSIGNABLE FUNCTIONS:

Message	Selects an often used message.
One touch	Selects the often used Call type or Call-to party.
Clear Down	Hangs up a Telephone call*. ①You can cancel the call by pushing [Option] again. ① The transceiver can terminate the Telephone call when: • The call type is "Individual" and the call was initiated by the telephone. • The call is initiated by the transceiver.
Mute	Mutes or unmutes the received audio. (The notification tone is not muted.) • Hold down [Option] for 1 second. ①Pushing [PTT] also releases the mute.
Playbacks	Plays back the recorded audio.
Emergency	Transmits an Emergency call. • Hold down [Option] until "Emergency" is displayed. ①The Emergency call is cancelled when: • A call is received. • You hold down [Option] until "Emergency" disappears. • The transceiver power is turned OFF. • The time set in the "Cancel by Time" item has elapsed.

^{*}Feature in the near future.



■ Recording

The Recording function records the audio of received calls.

The recording duration of a single file is up to 1 minute. The oldest file will be automatically overwritten when the 5th call is recorded.

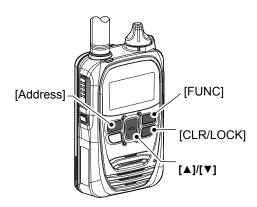
- ①You can play the recorded audio only when the Playback function is assigned to [Option] by your dealer.
- ① As the default setting, you can record only Individual calls. You can change this setting in the Set mode (p. 4-7).
- ①Only the call-to party's voice is recorded.
- The recorded audio data cannot be exported.

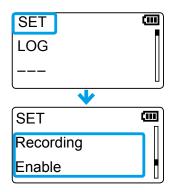
NOTE: When removing the battery pack

The recorded audio is stored in memory on Power OFF. Do not remove the battery pack until "POWER OFF..." is disappeared. Otherwise the recorded audio may be lost.

1. Setting the Recording function enable

- 1. While holding down [FUNC], turn ON the power.
 - Enter the Set mode.
- 2. Release [FUNC] when "SET" is displayed.
- 3. Push [FUNC] or [Address] several times to select "Recording."
- 4. Push [▲]/[▼] to select "Enable."
- 5. Push [CLR/LOCK].
 - Exits the Set mode.

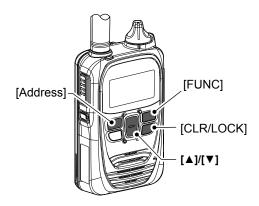


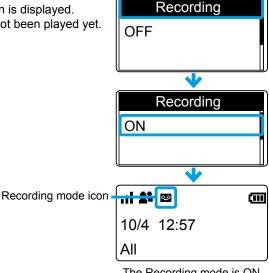


■ Recording (continued)

2. Turning ON the Recording mode

- 1. Push [FUNC] to select "Recording."
- 2. Push [▲]/[▼] to select "ON."
- 3. Push [CLR/LOCK].
 - The Recording mode is ON, and the Recording mode icon is displayed.
 - The icon blinks when there is a recorded audio that has not been played yet.

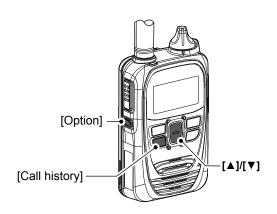


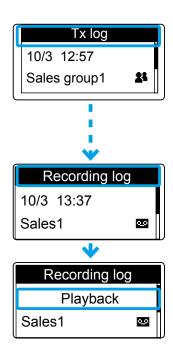


The Recording mode is ON

3. Playing the recorded audio

- 1. Push [Call history] several times to select "Recording log."
- 2. Push [▲]/[▼] several times to select the recorded audio to play.
- 3. Push [Option].
 - The selected record audio is played.
 - Push [Option] to stop playing.

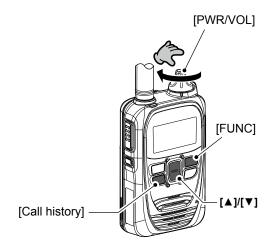


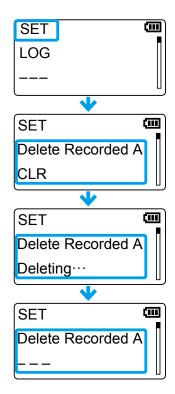


■ Recording (continued)

4. Deleting all the recorded audio history

- 1. While holding down [FUNC], turn ON the power.
 - Enter the Set mode.
- 2. Release [FUNC] when "SET" is displayed.
- 3. Push [FUNC] several times to select "Delete Record Audio."
- 4. Push [▲]/[▼] to select "CLR."
- 5. Push [Call history].
 - Exits the Set mode.





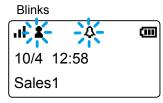
■ Pocket Beep function

The Pocket beep function sounds a notification tone and indication when a call is received.

- This function is set by your dealer, or in the Set mode.(p. 4-4)
- When the Pocket Beep function is ON, "A" is displayed.
- When a call is received, the notification beep sounds and "A" blinks.



Standby screen

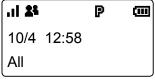


When an Individual call is received

■ P-Bell function

The P-Bell function sounds the notification tone when a call is received.

- The picon is displayed when the P-Bell function is used. This function is set by your dealer, or in the Set mode. (p. 4-4)
- You cannot listen to the call until you reply to the call. After pushing [PTT], the mute is released.



Standby screen

■ About the VOX function

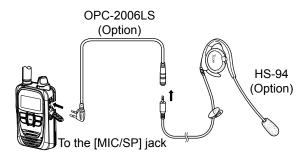
The VOX function automatically switches between receive and transmit during voice operation.

When the VOX function is ON, speak into the headset microphone to transmit, then stop speaking to listen. In full-duplex, you can speak and listen to the call-to party at the same time.

To use this function, an optional headset and a VOX converter cable, shown below are required.

This function is set by your dealer.

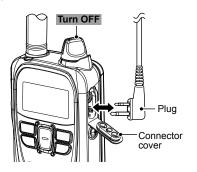
①You can configure the setting in the Set mode. (p. 4-5)



NOTE:

Be sure to turn OFF the power before connecting or disconnecting optional equipment to or from the jack.

- Remove the cable by holding the plug not cable.
- Insert the plug securely when connecting the cable.
- Attach the jack cover when no optional equipment is connected.
- The jack is made tight to resist dust and water intrusion.



Attaching an optional equipment



Jack cover is attached

■ Emergency Call function

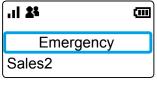
The Emergency Call function may be assigned to the [Option] or [Call history] key by your dealer. Ask your dealer about the assigned function.

Transmitting an Emergency call:

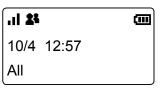
- 1. Hold down [Option] or [Call history] until "Emergency" is displayed.
 - An alarm sounds periodically.
 - When the Silent mode is set to "ON" by your dealer, no alarm sounds, and no emergency indication is displayed.
- 2. Wait for the answer back.
 - When the transceiver receives an answer back, the alarm stops, and the [TX/RX] indicator lights green.
 - To cancel the emergency call, hold down [Option] until "Emergency" disappears, or turn OFF the transceiver.

When an Emergency call is received:

- 1. "Emergency" is displayed and the alarm periodically sounds.
 - When the Silent mode is set to "ON" by your dealer, no alarm sounds.
- 2. While holding down [PTT], talk into the microphone.
 - While holding down [PTT], the [TX/RX] indicator lights red.
 - The alarm stops.
 - Returns to the normal mode when PTT is released.



Emergency screen

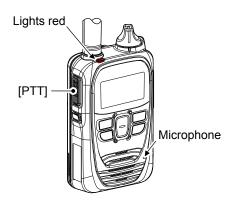


Emergency screen in the Silent mode



When an Emergency call is received





NOTE:

Icom is not responsible for the destruction or damage caused by using the Emergency Call function.

This function may not properly work under the following circumstances or conditions:

- · Remaining battery capacity is low.
- Surrounding area or environment.
- The Emergency function is not designed for secured communications.

■ Lone Worker function

When the Lone Worker function is activated, the Emergency function (p. 3-12) is automatically turned ON after the transceiver has been left without any operation for the specified time period.

To reset the timer, operate any key or the volume control within the specified time period.

This function may be used only when the Lone Worker function is programmed by your dealer.

■ Man Down function

When the Man Down function is activated, the Emergency function (p. 3-12) is automatically turned ON after the set period of time has passed with the transceiver leaning past the preset angle.

To reset the timer, raise back the transceiver from the preset angle towards the vertical position within this set time period. This function may be used only when the Man Down function is programmed by your dealer.

NOTE:

Icom is not responsible for the destruction or damage caused by using the Lone Worker or Man Down function. These functions may not properly work, depending on the following circumstances or conditions:

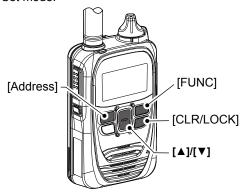
- Remaining battery capacity is low.
- Surrounding area or environment.
- The Lone Worker and Man Down function are not designed for secured communications.

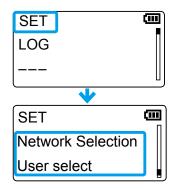
■ Searching network operator

The Network Search function search the available operator.

1. Setting the Network Search function enable

- 1. While holding down [FUNC], turn ON the power.
 - Enter the Set mode.
- 2. Release [FUNC] when "SET" is displayed.
- 3. Push [FUNC] or [Address] several times to select "Network Selection."
- 4. Push [▲]/[▼] to select "User Select."
- 5. Push [CLR/LOCK].
 - Exits the Set mode.



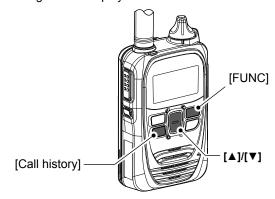


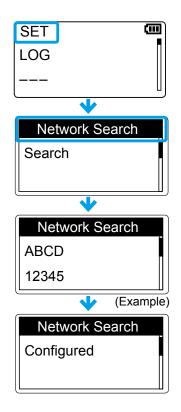
2. Starting a Network Search

- 1. Push [FUNC] several times to select "Network Search."
- 2. Push [Call history] to start a search.
 - · Network search starts.
 - The search result will be displayed in few minutes.

 ① Search may take a time, depending on the environment.

 ① If "Timeout" is displayed, try a different location.
- 3. Push [▲]/[▼] to select an operator.
 - Select "Search" if you start the search again.
- 4. Push [Call history] to set the selected operator.
 - · "Configured" is displayed.





NOTE:

- This function may not work, depending on the country of use or service provider setting.
- The transceiver may not connect to the operator in the search result, depending on the communication service contract. (For example: Roaming is not supported.)

Section 4

■ Entering to the Basic Set mode	4-2
■ Entering to the Advanced Set mode	4-2
■ Operation in the Set mode	4-3
■ Set mode item list	4-4

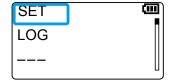
There are 2 types of Set mode: Basic and Advanced.

■ Entering to the Basic Set mode

You cannot transmit nor receive while the transceiver is in the Set mode.

- 1. While holding down [FUNC], turn ON the power.
- 2. Release [FUNC] when "SET" is displayed.

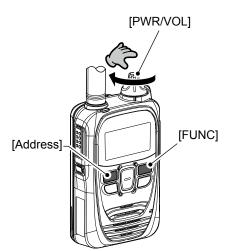




■ Entering to the Advanced Set mode

You cannot transmit or receive while the transceiver is in the Set mode.

- 1. While holding down [FUNC] and [Address], turn ON the power.
- 2. Release both keys when "SET" is displayed.





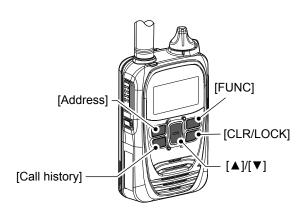
■ Operation in the Set mode

1. Push [FUNC] or [Address] to select an item.

- 2. Push [▲]/[▼] to set the value.
- Push [PTT] or [CLR/LOCK] to save the value and exit the Set mode.Push [Call history] to execute the following functions.

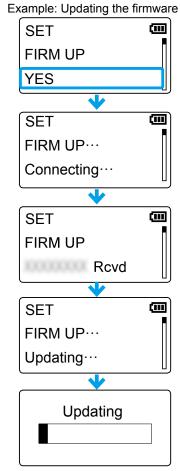
 - LOG
 - RESET*
 - FIRM UP*
 - Delete Recorded Audio
 - Delete Bluetooth Device
 - · Search Bluetooth Device
 - Initialize Bluetooth Unit
 - *After performing these functions, the transceiver automatically restarts.

①Updating the firmware takes approximately 10 minutes.



Example: Setting the Key-Touch Beep Volume **SET** LOG Œ **SET** Key-Touch Beep Vo 10 Œ **SET** Key-Touch Beep Vo

Setting the Key Touch Beep Volume to "0"



Updating the firmware

■ Set mode item list

The shaded items (__) are also displayed in the Basic Set mode.

① Items or default values may differ, depending on the presetting. Ask your dealer for details.

Item	Description	Option/range	Default
LOG	Deletes logs.	, CLR (Clear)	
Reset	Initializes the transceiver. Returns to the default values except the Bluetooth pairing list.	NO or YES	NO
FIRM UP	Updates the firmware.	NO or YES	NO
Success Tone	Sets the successful tone for Individual calls. ①The success or failure result is also displayed on the screen.	Disable or Enable	Enable
Failure Tone	Sets the failure tone for Individual calls ①The success or failure result is also displayed on the screen.	Disable or Enable	Enable
IND Call Tone			
GRP Call Tone		Disable, Tone1 ~ Tone8	_ , , , , , , , , , , , , , , , , , , ,
ALL Call Tone	Sets the call initiation tone.	①Larger number makes the tone lower.	Tone1 (Pi)
TEL Call Tone*			
IND Crtsy Beep			
GRP Crtsy Beep		Disable, Tone1 ~ Tone8	Tone1 (Pi)
ALL Crtsy Beep	Sets the call termination tone.	①Larger number makes the tone lower.	
TEL Crtsy Beep*			
IND RX Tone			
Grp RX Tone		Disable, Tone1 ~ Tone8 ①Larger number makes the tone lower.	Disable
All RX Tone	Sets the call receive tone.		
Tel RX Tone*			
MSG RX Tone			
IND Notify Type		Pocket beep or P-Bell	P-Bell
GRP Notify Type	Onto the small annaiss matification to an		
ALL Notify Type	Sets the call receive notification type.		
TEL Notify Type*			
IND Notify No.			3 (times)
GRP Notify No.		Continuous, 1, 3, 10, 20 (times)	
ALL Notify No.	Sets the number of tone.		
TEL Notify No.*			
MSG Notify No.			
RX Notify Actn.	Sets the call or message receive notification type.	Tone, Vibration, Notification Beep + Vibration	Tone
RX Notify Vol.	Sets the call or message receive notification volume.	0 ~ 32	10
Out of Rng Tone	Sounds the out-of-area warning beep. The beep also sounds when the transceiver reenters the service area. (Out-of-area: "Pipi," Reenters: "Popo")	Disable or Enable	Disable
Range Side Tone	Mutes the sidetone when the transceiver is out- of-area.	Disable or Enable	Disable

^{*}Feature in the near future.

■ Setting item list (continued)

The shaded items () are also displayed in the Basic Set mode. ① Items or default values may differ, depending on the presetting. Ask your dealer for details.

Item	Description	Option/range	Default
Sidetone	The Sidetone function outputs the transmitting audio to a headset that is connected to the transceiver. When this item is set to "Enable," the Echo Canceller function is automatically set to "Disable."	Disable or Enable	Disable
Sidetone Volume	Sets the Side tone volume.	0 ~ 32	10
VOX	Automatically switches between receive and transmit by detecting your voice.	Disable, Bluetooth Mic, Headset or Earphone-Mic	Disable
VOX Threshold	Sets the VOX gain level. ①Lower values make the VOX function more sensitive to your voice.	0% ~ 100%	40%
Echo Canceller	Sets the Echo Cancelling function. (commonly used for an earphone MIC and headset) When the "SideTone" item is set to "Enable," this item is fixed to "Disable."	Disable or Enable	Enable
Noise Canceller	Sets the Noise Cancelling function. (commonly used for a transceiver, earphone MIC and headset)	Disable or Enable	Enable
BackLight	Sets the backlight operating function.	Auto, OFF or ON	Auto
Contrast	Sets the screen contrast.	1 (lowest) ~ 16 (highest)	8
Mic Gain	Sets the microphone sensitivity. ①Higher values make the microphone more sensitive to your voice.	-12 dB (lowest) ~ 12 dB (highest) (in 3 dB step)	0 dB
Notify Beep Vol.	Sets the notification beep level.	0 ~ 32	10
Key-Touch Beep	Sets the Key-touch beep.	Disable or Enable	Enable
Key Beep Vol.	Sets the Key-touch beep level.	0 ~ 32	10
RX Buffer Type	Sets the Jitter buffer size. ①Jitter buffer reduces audio interruptions.	Dynamic, 40 ~ 480 milliseconds (in 40 milliseconds step)	Dynamic
Tx Inhibit	Inhibits transmission. Select "Enable" to lock all the controls except [PWR/VOL]. ①Transmission is also inhibited while using an external microphone, and the VOX function.	Disable or Enable	Disable
PTT Lock	Inhibits transmission by the internal PTT.	Disable or Enable	Disable
Call Type Stnby	Displays the call-to party (Call type) on the standby screen.	Disable or Enable	Enable
One Touch PTT	Toggles receiving and transmitting by momentarily pushing [PTT]. Push [PTT] to talk, then push again to return to receive. ①When "Enable" is selected, "One Touch PTT" is displayed when [FUNC] is pushed.	Disable or Enable	Disable

■ Setting item list (continued)

The shaded items () are also displayed in the Basic Set mode.

① Items or default values may differ according to a presetting. Ask your dealer for details.

Item	Description	Option/range	Default
Destination ID	Displays the call-to party (call type) on the stand-by screen. 10/4 12:57 All Call-to paty (call type) (i) If "Disable" is selected, the call-to party (call type) that is preset by your dealer is displayed on the standby screen.	Disable, Transmit, Transmit and Receive or All Operations	Disable
Bluetooth	Sets the Bluetooth function.	Disable or Enable	Disable
BT Auto Connect	Automatically connects a Bluetooth device.	Enable or Disable	Enable
BT Sync Vol.	Sets the audio volume setting type for a Bluetooth headset. ①When "Enable" is selected, the Bluetooth headset volume can be set by [PWR/VOL].	Disable or Enable	Disable
BT Connect Type	Sets the Synchronous Connection-Oriented (SCO) link* connection type of a Bluetooth headset. When "Auto Disconnect" is selected, the SCO link is automatically disconnected after two seconds. *A Bluetooth link for voice communication () This setting is valid only when a Bluetooth device other than VS-3 or BC-218 is used. () When this item is set to "Auto Disconnect," the VOX function is not usable.	Always Connect or Auto Disconnect	Always Connect
PTT & Mic Switch	Enables the user to select which microphone to use. ①When this item is set to "Auto," Transmits the audio from the device whose [PTT] is pushed.	Auto, Radio Mic or Bluetooth Mic	Auto
BT Echo Canceller	Sets the Echo Cancelling function for a Bluetooth headset.	Disable or Enable	Enable
BT E-Cancel Gain	Sets the Echo Canceller input gain for a Bluetooth headset.	-40 dB ~ +40 dB	0 dB
BT E-Cancel Delay	Sets the Echo Canceller delay for a Bluetooth headset.	0milliseconds ~ 160milliseconds	70millisec- onds
BT Noise Cancel	Sets the Noise Cancelling function for a Bluetooth headset.	Disable or Enable	Enable
BT Power Save	Sets the Power Save function for a Bluetooth headset. (i) When "Enable" is selected, the Power Save function automatically activates after 2 minutes of no communication. • When a call is received, this function is cancelled. • This function is cancelled when pushing [PTT]. Push [PTT] again to talk.	Enable or Disable	Disable

■ Setting item list (continued)

The shaded items () are also displayed in the Basic Set mode. ① Items or default values may differ according to a presetting. Ask your dealer for details.

Item	Description	Option/range	Default
BT One Touch PTT	Toggles receiving and transmitting by momentarily pushing [PTT] on a Bluetooth headset. Push [PTT] to talk, and push again to return to receive. ①When "Enable" is selected, you do not have to hold down [PTT] while you are talking. ①Icom has checked the PTT operation with some 3M Peltor headsets such as the WS Headset XP, WS ProTac XP and WS Alert XP. (Compatibility not guaranteed.)	Enable or Disable	Disable
Show BT One Touch PTT	Selects whether or not to display the BT One Touch PTT screen on the transceiver. When this item is set to "Enable," you can select whether or not to use the One Touch PTT function by pushing [FUNC]. This function enables you to push [PTT] on the Bluetooth microphone to transmit and push again to standby, so you can transmit without continuously holding down [PTT]. (i) Icom has checked the PTT operation with some 3M Peltor headsets such as the WS Headset XP, WS ProTac XP and WS Alert XP. (Compatibility not guaranteed.)	Enable or Disable	Disable
BT PTT Beep	Sounds a beep when the [PTT] switch on the Bluetooth headset is pushed.	Enable or Disable	Disable
Search BT Device	Searches for Bluetooth devices.	Search	_
Delete BT Device	Deletes paired devices.	_	_
Init BT Unit	Initilizes the pairing list.	NO or YES	NO
BT Unit Version	Displays the version number of the internal Bluetooth unit.	_	_
Recording	Sets the Recording function.	Enable or Disable	Disable
Record Call Type	Sets the Call type to be recorded.	Individual Call or All	Individual Call
Delete Recording	Deletes the recorded audio.	or CLR	
Speakerphone Unit	Select whether or not to use an optional speaker-phone unit.	Unuse or Use	Use
Show SIM Selection (For only IP503H)	Selects whether or not to display the SIM switching item in the [FUNC] menu. ①When "Enable" is selected, you can switch the SIM card by pushing [FUNC].	Enable or Disable	Disable
SIM Selection (For only IP503H)	Selects the SIM card. • Push [▲]/[▼] to select "Select (SIM2)" (default), then push [Call history]. ① After a while, the transceiver automatically restarts.	(SIM1)* or Select (SIM2)* *If a name is assigned to each SIM slot, the name is displayed.	(SIM1)
UTC Offset	You can set this item when the transceiver uses the SNTP server for clock synchronization. Set the offset time between the UTC (Universal Time Coordinated) and local time.	-14:00 ~ +14:00 (in 1 minute steps)	00:00
Daylight Saving Time	You can set this item when the transceiver uses the SNTP server for clock synchronization. Select whether or not to use Daylight Saving Time (DST) for the clock.	Enable or Disable	Disable

4 SET MODE

■ Setting item list (continued)

The shaded items () are also displayed in the Basic Set mode.

①Items or default values may differ according to a presetting. Ask your dealer for details.

Item	Description	Option/range	Default
Show Network Selection	Select whether or not to show the Network Selection item in the [FUNC] menu.	Enable or Disable	Enable
Network Selection	Select whether or not to automatically select the Network Operator.	User select, Auto or Last accessed	Auto
Network Search	Execute an operator search. ①This item is displayed only when "User select" is selected in the Network Selection item. ①"Not Ready" may be displayed right after entering the Set mode.	Search	_
LTE Unit Version	Displays the version number of internal LTE unit.	_	_
IMEI	Displays the IMEI number of the communication unit.	_	_
Phone Number	Displays the SIM card's telephone number.	_	_
ICCID	Displays the SIM card's ICCID.	_	_

① Since obtaining the LTE unit version and ICCID takes time, "Not acquired" may be displayed right after entering the Set mode. However they will be obtained after a while.

①"Not acquired" may be displayed in the Phone Number item, depending on the SIM card.

Section 5

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■ Optional products

Carrying case

LC-185 (For use with BP-272)

Battery Pack

BP-272: Li-ion Battery Pack (Same as supplied)

(Minimum: 1880 mAh, Typical: 2000 mAh)

Chargers

BC-202IP2: Rapid Charger (with BC-123S)
BC-211: Multi-charger (with BC-157S)

BC-218: Rapid Charger (with Bluetooth® function)

BC-123S: AC Adapter (for BC-202IP2)
BC-157S: AC Adapter (for BC-211)
BC-207S: AC Adapter (for BC-218)
CP-22 (For BC-202IP2, BC-218, 12V/24V)
CP-23L (For BC-202IP2 and BC-218, 12V)

Holder

MB-135: Belt Clip (Same as supplied)

Cable	s
-------	---

OPC-2006LS: Plug Adapter Cable
OPC-2328: PTT Switch Cable
OPC-2359: PTT Switch Cable
OPC-478UC*3: Programming Cable
OPC-2144: Plug Adapter Cable

Speaker-Microphones

HM-153LS:	Earphone Microphone
HM-166LS:	Earphone Microphone
HM-183LS:	Speaker Microphone
HM-186LS:	Speaker Microphone

HM-215: Speaker Microphone (For BC-218)

Headsets

HS-94*1: Headset (Ear hook type)
HS-95*1: Headset (Neck and arm type)

HS-97*1: Throat Microphone
HS-102*2: Headset (Earphone type)
VS-3: Bluetooth® Headset

Mount

MBF-1: Mounting Base (For MBA-7)
MBA-7: Bracket Adapter (For BC-218)

Other

VE-SP1: Speakerphone Unit

^{*1}To use the VOX function, the OPC-2006LS (Plug Adapter Cable) is necessary.

To use the talk switch, the OPC-2328 (PTT Switch Cable) is necessary.

^{*2} The OPC-2359 (PTT Switch Cable) is necessary.

^{*3} The OPC-2144 (Plug Adapter Cable) is necessary.

■ Standard charging time and battery life

NOTE: Operating time may be shorter, depending on the operating condition such as the roaming frequency. Frequently roaming makes the operating time shorter.

①The supplied battery pack is the BP-272.

 Immediately stop using the battery pack if it emits an abnormal odor, heats up, or is discolored or deformed. If any of these conditions occur, contact your Icom dealer or distributor.

Battery Spec item	BP-272
On a notine or time a	17 hours (approximately)
Operating time	TX:RX:Stand-by=5 : 5 : 90 (seconds)
Chausin a time	3.5 hours (approximately)
Charging time	Charging with the BC-202IP2

■ Battery pack cautions

WORD	DEFINITION
△DANGER!	Personal death, serious injury or an explosion may
	occur.
A MAYA DANING I	Personal injury, fire hazard or electric shock may
∆WARNING!	occur.
CAUTION	Equipment damage may occur.
NOTE	If disregarded, inconvenience only. No risk of personal injury, fire or electric shock.

⚠ **DANGER! NEVER** short the terminals of the battery pack. Shorting may occur if the terminals touch metal objects such as a key, so be careful when placing the battery packs (or the transceiver) in bags, and so on. Carry them so that shorting cannot occur with metal objects. Shorting may damage not only the battery pack, but also the transceiver.

⚠ **DANGER! NEVER** operate the transceiver near unshielded electrical blasting caps or in an explosive atmosphere. This could cause an explosion and death.

⚠ **DANGER! NEVER** use or charge Icom battery packs with non-Icom transceivers or non-Icom chargers. Only Icom battery packs are tested and approved for use with Icom transceivers or charged with Icom chargers. Using thirdparty or counterfeit battery packs or chargers may cause smoke, fire, or cause the battery to burst.

⚠ WARNING RF EXPOSURE! This device emits Radio Frequency (RF) energy. Caution should be observed when operating this device. If you have any questions regarding RF exposure and safety standards, please refer to the Federal Communications Commission Office of Engineering and Technology's report on Evaluating Compliance with FCC Guidelines for Human Radio Frequency Electromagnetic Fields (OET Bulletin 65).

⚠ WARNING! NEVER hold the transceiver so that the antenna is very close to, or touching exposed parts of the body, especially the face or eyes, while transmitting. The transceiver will perform best if the microphone is 5 to 10 cm (2 to 4 inches) away from the lips and the transceiver is vertical.

⚠ WARNING! NEVER operate the transceiver with a headset or other audio accessories at high volume levels. The continuous high volume operation may cause a ringing in your ears. If you experience a ringing, reduce the volume level or discontinue use.

⚠ **WARNING! NEVER** operate the transceiver while driving a vehicle. Safe driving requires your full attention— anything less could result in an accident.

CAUTION: DO NOT use harsh solvents such as Benzine or alcohol when cleaning, because they will damage the transceiver's surfaces.

CAUTION: DO NOT operate the transceiver unless the flexible antenna, battery pack, and jack cover are securely attached. Confirm that the antenna and battery pack are dry before attaching. Exposing the inside of the transceiver to dust or water will result in serious damage to the transceiver. After exposure to water, clean the battery contacts thoroughly with fresh water and dry them completely to remove any water or salt residue.

DO NOT use or place the transceiver in direct sunlight or in areas with temperatures below –10°C (14°F) or above +60°C (140°F).

DO NOT push [PTT] when you do not actually intend to transmit.

DO NOT modify the transceiver. The specifications may change and then the transceiver may not comply with the requirements of required regulations. The transceiver warranty does not cover any problems caused by unauthorized modification.

BE CAREFUL! The transceiver will become hot when operating it continuously for long periods of time.

BE CAREFUL! The transceiver meets IP67* requirements for waterproof protection. However, once the transceiver has been dropped, waterproof protection cannot be guaranteed because of possible damage to the transceiver's case or waterproof seal.

*Only when the BP-272, flexible antenna or antenna cap and SP/MIC jack cap are attached.

The optional BP-272 meets IP67 requirements.

Battery caution

Misuse of Li-ion batteries may result in the following hazards: smoke, fire, or the battery may rupture. Misuse can also cause damage to the battery or degradation of battery performance.

⚠ **DANGER! NEVER** strike or otherwise impact the battery. Do not use the battery if it has been severely impacted or dropped, or if the battery has been subjected to heavy pressure. Battery damage may not be visible on the outside of the case. Even if the surface of the battery does not show cracks or any other damage, the cells inside the battery may rupture or catch fire.

⚠ DANGER! NEVER leave battery pack in places with temperatures above 60°C (140°F). High temperature buildup in the battery, such as could occur near fires or stoves, inside a sun heated car, or in direct sunlight may cause the battery to rupture or catch fire. Excessive temperatures may also degrade battery performance or shorten battery life.

⚠ **DANGER! NEVER** expose the battery to rain, snow, seawater, or any other liquids. Do not charge or use a wet battery. If the battery gets wet, be sure to wipe it dry before using.

 \triangle **DANGER! NEVER** incinerate a used battery pack since internal battery gas may cause it to rupture, or may cause an explosion.

⚠ **DANGER! NEVER** solder the battery terminals, or **NEVER** modify the battery pack. This may cause heat generation, and the battery may burst, emit smoke or catch fire.

⚠ **DANGER!** Use the battery only with the transceiver for which it is specified. Never use a battery with any other equipment, or for any purpose that is not specified in this instruction manual.

⚠ **DANGER!** If fluid from inside the battery gets in your eyes, blindness can result. Rinse your eyes with clean water, without rubbing them, and go to a doctor immediately.

⚠ **WARNING!** Immediately stop using the battery if it emits an abnormal odor, heats up, or is discolored or deformed. If any of these conditions occur, contact your Icom dealer or distributor.

⚠ **WARNING!** Immediately wash, using clean water, any part of the body that comes into contact with fluid from inside the battery.

⚠ WARNING! NEVER put the battery in a microwave oven, high-pressure container, or in an induction heating cooker. This could cause a fire, overheating, or cause the battery to rupture.

CAUTION: Always use the battery within the specified temperature range, -10° C $\sim +60^{\circ}$ C (14° F $\sim 140^{\circ}$ F). Using the battery out of its specified temperature range will reduce the battery's performance and battery life.

CAUTION: Shorter battery life could occur if the battery is left fully charged, completely discharged, or in an excessive temperature environment (above 50°C (122°F)) for an

■ Battery pack cautions (continued)

extended period of time. If the battery must be left unused for a long time, it must be detached from the transceiver after discharging. You may use the battery until the battery indicator shows half capacity, then keep it safely in a cool and dry place at the following temperature range:

```
-20^{\circ}C (-4^{\circ}F) \sim +50^{\circ}C (+122^{\circ}F) (within a month)

-20^{\circ}C (-4^{\circ}F) \sim +35^{\circ}C (+95^{\circ}F) (within three months)

-20^{\circ}C (-4^{\circ}F) \sim +20^{\circ}C (+68^{\circ}F) (within a year)
```

BE SURE to replace the battery pack with a new one approximately five years after manufacturing, even if it still holds a charge. The inside battery material will become weak after a period of time, even with little use. The estimated number of times you can charge the battery is between 300 and 500. Even when the battery appears to be fully charged, the operating time of the transceiver may become short when:

- Approximately five years have passed since the battery was manufactured.
- · The battery has been repeatedly charged.

Charging caution

⚠ DANGER! NEVER charge the battery pack in areas with extremely high temperatures, such as near fires or stoves, inside a sun-heated vehicle, or in direct sunlight. In such environments, the safety/protection circuit in the battery will activate, causing the battery to stop charging.

⚠ WARNING! NEVER charge the transceiver during a lightning storm. It may result in an electric shock, cause a fire or damage the transceiver. Always disconnect the power adapter before a storm.

⚠ **WARNING! NEVER** insert the transceiver (battery attached to the transceiver) into the charger if it is wet or soiled. This could corrode the battery charger terminals or damage the charger. The charger is not waterproof.

⚠ WARNING! DO NOT charge or leave the battery in the battery charger beyond the specified time for charging. If the battery is not completely charged by the specified time, stop charging and remove the battery from the battery charger. Continuing to charge the battery beyond the specified time limit may cause a fire, overheating, or the battery may rupture.

CAUTION: NEVER charge the battery outside of the specified temperature range:

BC-202IP2: 10°C ~ 40°C (50°F ~ 104°F) BC-211: 10°C ~ 40°C (50°F ~ 104°F) BC-218: 10°C ~ 40°C (50°F ~ 104°F)

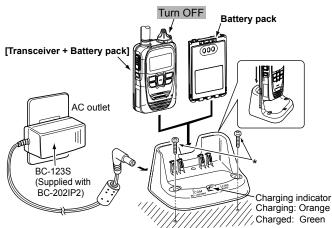
Icom recommends charging the battery at 25°C (77°F). The battery may heat up or rupture if charged out of the specified temperature range. Additionally, battery performance or battery life may be reduced.

■ Charging with the optional BC-202IP2

Fully charge the battery pack when the first time of use or has not been used for more than 2 months.

WARNING! NEVER charge the transceiver during a lightning storm. It may result in an electric shock, cause a fire or damage the transceiver. Always disconnect the power adapter before a storm.

- Turn OFF the transceiver power before charging.
 Otherwise, the battery may not be fully charged.
- Insert the transceiver (battery attached to the transceiver) into the charger as shown to the right.
- Charging indicator lights orange while charging. When the battery pack is fully charged, lights green.
- The charger automatically restarts charging when the attached battery pack voltage drops.
- Disconnect the AC cable from the outlet when the charger is not in use.



Rapid charger (Optional BC-202IP2)

*Self-tapping screws (3.5x30 mm) (User supplied)

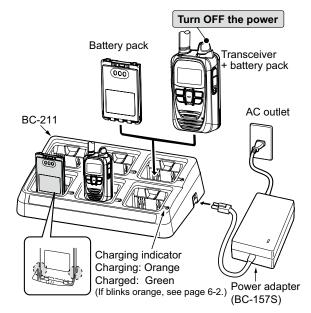
△DANGER

- Use and charge only specified Icom battery packs with Icom transceivers or Icom chargers. Only Icom battery packs are tested and approved for use with Icom transceivers or charged with Icom chargers. Using third party or counterfeit battery packs or chargers may cause smoke, fire, or cause the battery to burst.
- Use the battery only with the transceiver for which it is specified. Never use a battery with any other equipment, or for any purpose that is not specified in this instruction manual.
- Read the "PRECAUTION" leaflet that is supplied with the transceiver, before attempt to charging the battery pack.

■ Charging with the optional BC-211

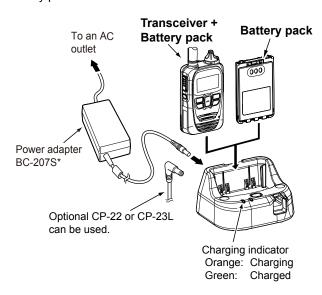
The BC-211 rapidly charges up to 6 battery packs. Charging time: Approximately 3.5 hours (BP-272) The following item is required.

· A power adapter (not supplied with some versions.)



■ Charging with the optional BC-218

The BC-218 is designed to rapidly charge the BP-272 Li-ion battery pack.



Approximate charging time

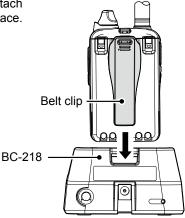
BP-272: 2.1 hours (when charging the battery pack only)
① Charging time may differ, depending on the using conditions of the transceiver while charging.

NOTE:

- The rapid charger, BC-218 has a charging timer that stops charging after approximately 5 hours has passed.
- If the battery pack does not properly charge when it is attached to the transceiver, remove it from the transceiver and insert only the battery pack into the charger.
- After charging is completed, the BC-218 will automatically recharge a battery pack when the battery voltage decreases. When the battery pack is often left in the BC-218 for long periods of time, the battery life cycle will be shortened.

■ Insert the transceiver into the BC-218

You can insert and charge a transceiver that has the belt clip attached. Attach the belt clip, then insert the transceiver into the BC-218 until it is locked in place.



^{*} May not be supplied, or the shape may differ, depending on the charger version.

■ Bluetooth[®] operation

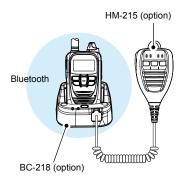
- You can connect to other Bluetooth wireless technology enabled devices (Headset or Charger) with the installed Bluetooth unit.
 - ①Only the BC-218 and VS-3 are guaranteed as of May 2019.
 - This function may not be usable, depending on a preset. Ask your dealer for detail.
- The communication range of Bluetooth is approximately 10 meters (33 feet).
- Up to 6 Bluetooth devices can be stored on the pairing device list. But using only 2 Bluetooth devices is recommended.

About the Electromagnetic Interference:

Bluetooth uses the 2.4 GHz band. When using the BC-218 in the 2.4 GHz band near a Bluetooth device, interference may occur. This may cause a decrease in communication speed, or an unstable connection. In such a case, use the BC-218 away from the Bluetooth device communication area, or stop using the Bluetooth device.

O BC-218 Rapid Charger

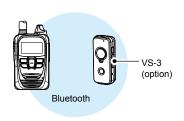
When you connect the optional HM-215 SPEAKER MICROPHONE to the BC-218, you can transmit and receive the audio by wirelessly connecting to the transceiver and BC-218.



O VS-3 Bluetooth® Headset

When you connect the optional VS-3* Bluetooth HEADSET to the transceiver, you can wirelessly transmit and receive the headset audio. The VS-3 has a [PTT] switch, so you can transmit in the same way as using the transceiver's [PTT] switch.

①[FWD], [RWD] and [PLAY] keys on the VS-3 are disabled.



NOTE:

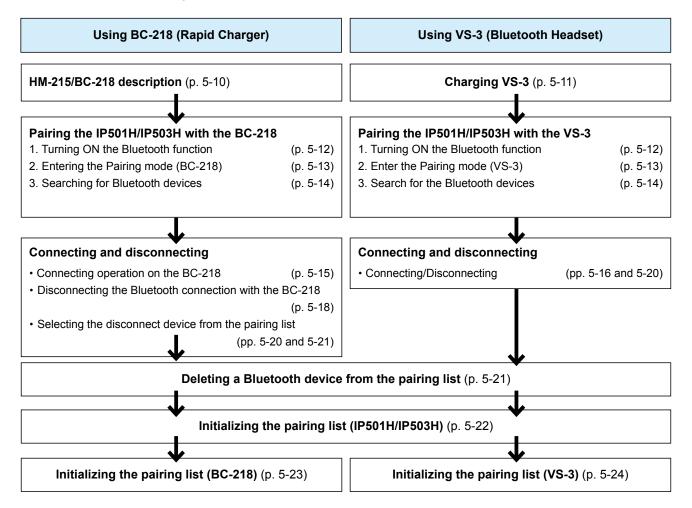
The audio volume control differs, depending on the "Bluetooth Synchronous Volume" item setting (p. 4-6) and Bluetooth function.

Volumo linkago	Volume setting		
Volume linkage	BC-218	VS-3	
Disable	10*	32	
Enable	According to the [PWR/VOL] dial		

*While using the HM-215, the volume level can be adjusted by the [VOL] (+) and [VOL] (-) keys.

■ Bluetooth® operation (continued)

Read the instructions following the procedures shown below.

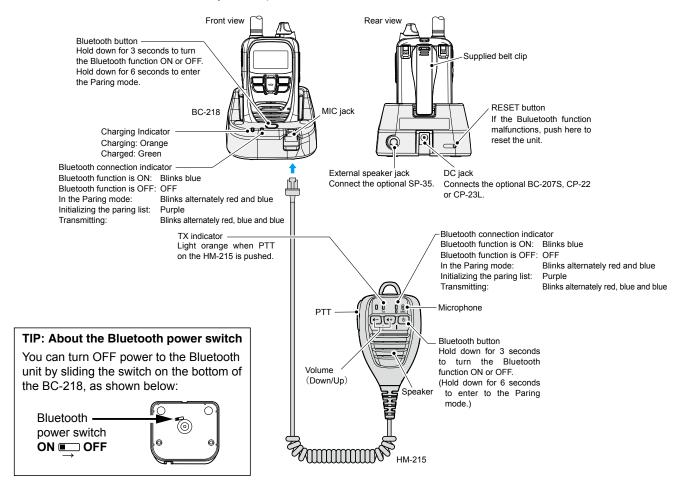


TIP:

You can configure the Bluetooth function In the Set mode.

■ HM-215/BC-218 description

Insert the HM-215 into the BC-218's MIC jack, and place the BC-218 on a flat surface.



Function	Operation	Comfirmation beep	Bluetooth indicator
Turning ON the Bluetooth function	Hold down the [Bluetooth] button for 3 seconds.	Melody sounds (Scale goes up)	Blinks blue
Turning OFF the Bluetooth function	Hold down the [Bluetooth] button for 3 seconds.	Melody sounds (Scale goes down.)	OFF
Pairing	When the Bluetooth functon is OFF, hold down the [Bluetooth] button for 6 seconds	Ready to connect: "PiPa-"	Alternatively Blinks red and blue while waiting for a connection
		Connected: "PiRo"	Blinks blue twice every 3 seconds when connected
Making a call*1	Push [PTT].	"Pi"*² (Default)	Blinks red once then Blinks blue twice every 3 seconds
Setting the volume up*1	Push [+]	_	_
Setting the volume down*1	Push [-]	_	_

①If the Bluetooth function is ON and the pairing list is blank, the BC-218 starts up in the Pairing mode.

^{*1} Functional only when a Bluetooth device is connected.

^{*2} The melody differs, depending on the "Calling Notice Tone" item (p. 4-4) or "Bluetooth PTT Beep" item (p. 4-7) in the Set mode.

■ Charging VS-3

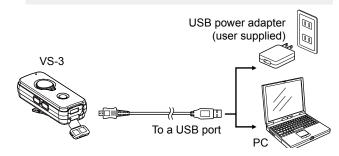
Fully charge the VS-3 before using. Charging is also necessary when the LED blinks red every 3 seconds.

- 1. Make sure the headset power is OFF.
 - If it's ON, hold down [PWR] for 3 seconds.
- 2. Open the USB port cover, and then connect the VS-3 to a USB power adapter, or a PC, with the supplied USB cable.
 - While charging, the LED lights red.
 - When the charge is completed, the LED turns OFF.

△ DANGER!

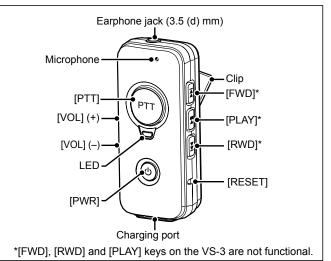
The charging time is approximately 3 hours. If the LED does not turn OFF after 3 hours of charging, disconnect the USB cable to stop charging. Overcharge may degrade the battery performance or shorten battery life. Also, it may cause a fire or explosion.

While charging, you cannot use the headset.



NOTE:

- If the headset does not operate normally, try the following to perform a force power OFF.
- When the volume is set to too low in level, the audio may not be loud enough to hear.
 Setting the volume level to "28" or higher is recommended.



Function	Operation	Comfirmation beep	Bluetooth indicator
Turning ON the Bluetooth function	Hold down the [Bluetooth] button for 3 seconds.	Melody sounds (Scale goes up)	Blinks blue
Turning OFF the Bluetooth function	Hold down the [Bluetooth] button for 3 seconds.	Melody sounds (Scale goes down.)	OFF
Pairing	When the Bluetooth functon is OFF, hold down the [Bluetooth] button for 6 seconds	Ready to connect: "PiPa-"	Alternatively Blinks red and blue while waiting for a connection.
		Connected: "PiRo"	Blinks blue twice every 3 seconds when connected.
Making a call*1	Push [PTT].	"Pi"*2 (Default)	Blinks red once then Blinks blue twice every 3 seconds.
Setting the volume up*1	Push [+]	"Pi" (High tone sounds when the volume is set to the maximum level.)	_
Setting the volume down*1	Push [-]	"Boo" (Low tone sounds when the volume is set to the mimimum level.)	_

①If the Bluetooth function is ON and the pairing list is blank, the VS-3 starts up in the Pairing mode.

^{*1} Functional only when a Bluetooth device is connected.

^{*2} The melody differs, depending on the "Calling Notice Tone" item (p. 4-4) or "Bluetooth PTT Beep" item (p. 4-7) in the Set mode.

■ Pairing the IP501H/IP503H with the BC-218 or VS-3

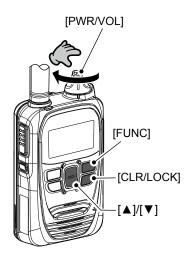
Pairing is a process to be able to establish a connection between a headset and other Bluetooth devices. Once pairing is established with the device, there is no need to pair again.

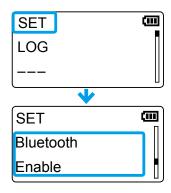
- You may not find a target Bluetooth device if there are many other Bluetooth® devices nearby. In that case, stop using those devices, or move away from them.
- When the Bluetooth function is turned OFF, the audio is output from the transceiver. Be sure to not set the transceiver's volume level too high.

①Guaranteed Bluetooth devices are the BC-218 and VS-3. (as of May 2019)

1. Turning ON the Bluetooth function

- 1. While holding down [FUNC], turn ON the transceiver power.
 - Enters the Set mode.
- 2. Release [FUNC] when "SET" is displayed.
- 3. Push [FUNC] several times to select "Bluetooth."
- 4. Push [▲]/[▼] to select "Enable."
- 5. Push [CLR/LOCK].
 - Exits the Set mode.

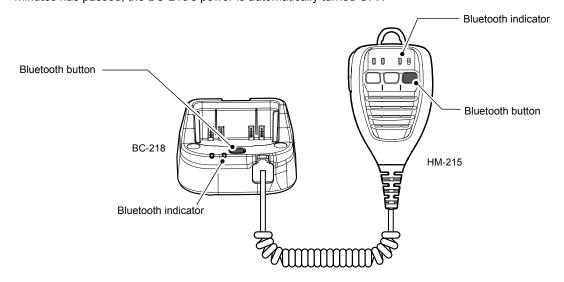




■ Pairing the IP501H/IP503H with the BC-218 or VS-3 (continued)

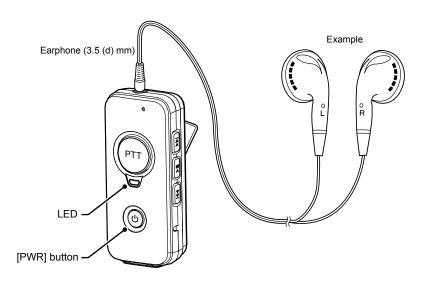
2. Enter the Pairing mode with the BC-218

- 1. Connect the optional HM-215 to the BC-218.
- When the Bluetooth function is OFF, hold down the Bluetooth button of either the BC-218 or HM-215) for approximately 6 seconds until the Bluetooth indicator starts alternately blinking red and blue.
 A beep sounds.
- 3. Release the Bluetooth button.
 - ①If the pairing list is blank, the BC-218 automatically enters the Pairing mode when the BC-218 is turned ON. ①If 5 minutes has passed without any device paired, the Pairing mode is automatically canceled. After another 5 minutes has passed, the BC-218's power is automatically turned OFF.



2. Enter the Pairing mode with the VS-3

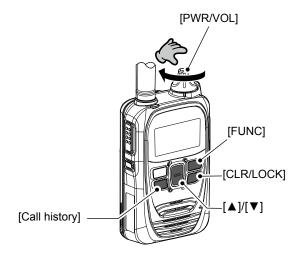
- 1. When the Bluetooth function is OFF, hold down the [PWR] button for approximately 6 seconds (until the LED starts alternately blinking red and blue).
 - · A beep sounds.
- 2. Release the Bluetooth button.
 - ①If the pairing list is blank, the VS-3 automatically enters the Pairing mode when the VS-3 is turned ON.
 - ①If 5 minutes has passed without any device paired, the Pairing mode is automatically canceled. After another 5 minutes has passed, the VS-3's power is automatically turned OFF.

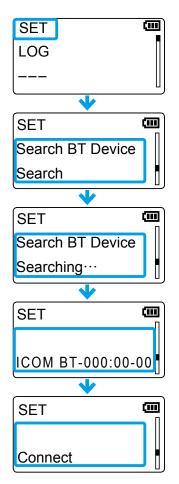


■ Pairing the IP501H/IP503H with the BC-218 or VS-3 (continued)

3. Search for Bluetooth devices

- 1. While holding down [FUNC], turn ON the power.
 - Enters the Set mode.
- 2. Release [FUNC] when "SET" is displayed.
- 3. Push [FUNC] several times to select "Search Bluetooth Device."
- 4. Push [Call history].
 - "Searching..." is displayed
 - When Bluetooth devices are found, their device name and BD address are displayed on the screen.
- 5. Push [▲]/[▼] to select a device, then push to [Call history].
 - When the pairing has succeed, "Connect" is displayed.
 - To retry the search, push [▲]/[▼] to select "Search," then push [Call history].
- 6. Push [CLR/LOCK].
 - Exits the Set mode.

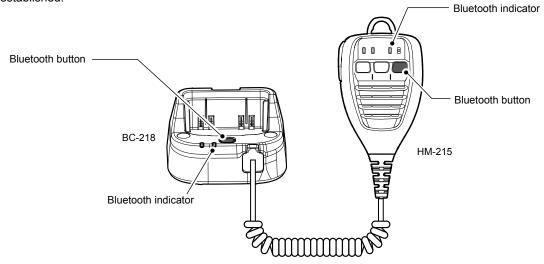




■ Connecting and disconnecting

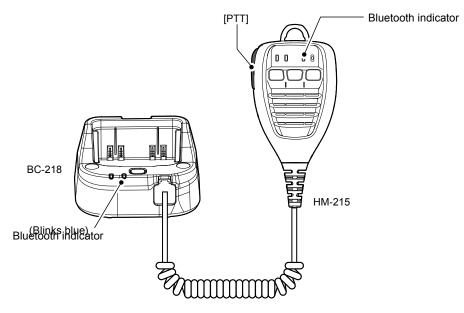
Connecting with the BC-218 when the Bluetooth indicator is OFF

- 1. Turn ON the transceiver's Bluetooth function. (p. 5-12)
- 2. Hold down the Bluetooth button on the BC-218 for 3 seconds.
 - The Bluetooth function is ON, and the Bluetooth indicator Blinks blue.
 - After a few seconds, a beep sounds and the Bluetooth connection between the transceiver and the BC-218 is established.



Connecting with the BC-218 when the Bluetooth indicator blinks blue

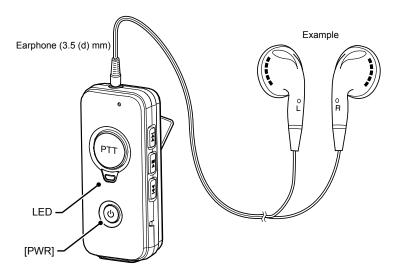
- 1. Turn ON the transceiver's Bluetooth function. (p. 5-12)
- 2. Push [PTT] on the HM-215 that is connected to the BC-218.
 - After few seconds, a beep sounds and the Bluetooth connection between the transceiver and the BC-218 is established.
 - The paired device can be identified by its BD address on the "Pairing List." (p. 5-17)



■ Connecting and disconnecting (continued)

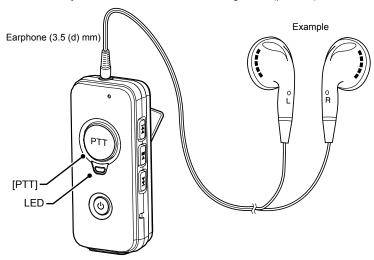
Connecting with the VS-3 when the Bluetooth indicator is OFF

- 1. Turn ON the transceiver's Bluetooth function. (p. 5-12)
- 2. Hold down the [PWR] button on the VS-3 for 3 seconds.
 - The Bluetooth function is ON, and the Bluetooth indicator Blinks blue.
 - After few seconds, a beep sounds and the Bluetooth connection between the transceiver and the VS-3 is established.



Connecting with the VS-3 when the Bluetooth indicator blinks blue

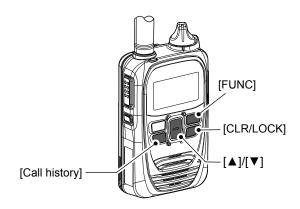
- 1. Turn ON the transceiver's Bluetooth function. (p. 5-12)
- 2. Hold down [PTT] on the VS-3 for 3 seconds.
 - After few seconds, a beep sounds and the Bluetooth connection between the transceiver and the VS-3 is established.
 - The paired device can be identified by its BD address on the "Pairing List." (p. 5-17)

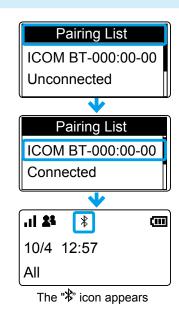


■ Connecting and disconnecting (continued)

Selecting the device to connect from the pairing list.

- 1. Turn ON the Bluetooth function. (p. 5-12)
- 2. Push [FUNC] to select "Pairing List."
- 3. Push [▲]/[▼] to select a Bluetooth device to connect.
- 4. Push [Call history].
 - After few seconds, a beep sounds and the Bluetooth connection between the transceiver and the selected device is established.
- 5. Push [CLR/LOCK].
 - Exits the Set mode.

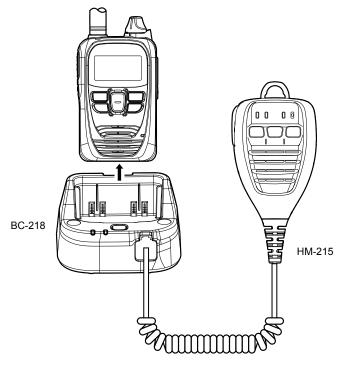




■ Connecting and disconnecting (continued)

Disconnecting a Bluetooth device by removing the IP501H/IP503H from the BC-218

- Remove the transceiver from the BC-218.
 - A beep sounds, and then the Bluetooth device is disconnected.



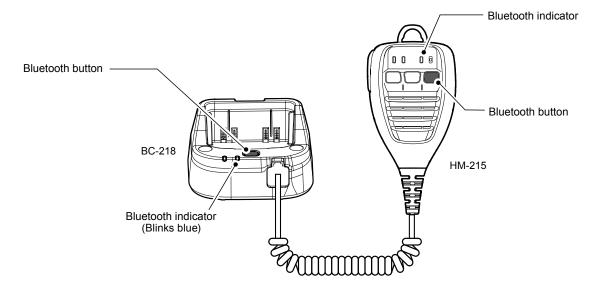
NOTE:

- When you remove the transceiver from the BC-218 then insert the transceiver again within 10 minutes, the Bluetooth connection is automatically established again.
- When 10 minutes has passed after the transceiver is removed from the BC-218, the BC-218's Bluetooth function is automatically turned OFF.

■ Connecting and disconnecting (continued)

Disconnecting with the BC-218 when the Bluetooth indicator blinks blue

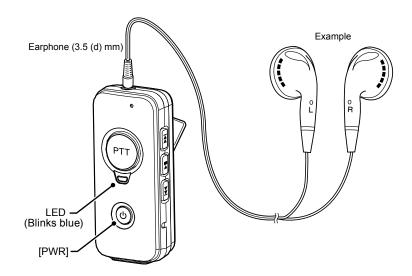
- Hold down the Bluetooth button on the BC-218 for 3 seconds.
 - Sounds a beep then melody (Scale goes down), and the Bluetooth connection between the transceiver and the BC-218 is disconnected.



■ Connecting and disconnecting (continued)

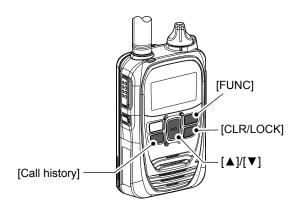
Disconnecting the VS-3 when the LED blinks blue

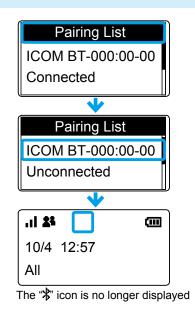
- Hold down the [PWR] button on the VS-3 for 3 seconds.
 - Sounds a beep then melody (Scale goes down), and the Bluetooth connection between transceiver and VS-3 are disconnected.



Selecting the device to disconnect from the pairing list.

- 1. Push [FUNC] to select "Pairing List."
- 2. Push [▲]/[▼] to select the Bluetooth device to disconnect.
- 3. Push [Call history].
 - After few seconds, a beep sounds and the Bluetooth connection between transceiver and the selected Bluetooth device is disconnected.
- 4. Push [CLR/LOCK].
 - Returns to the standby screen.



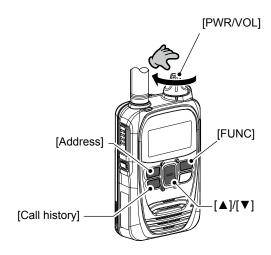


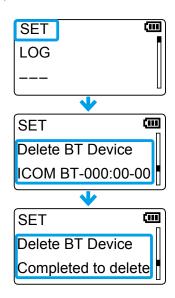
■ Deleting a Bluetooth device from the pairing list

You can delete Bluetooth devices from the "Pairing List" screen.

①Disconnect the Bluetooth device before deleting if connected. (pp. 5-17 and 5-18)

- 1. While hold down [FUNC] and [Address], turn ON the power.
 - Enters the Set mode.
- 2. Release [FUNC] and [Address] when "SET" is displayed.
- 3. Push [FUNC] several times to select "Delete Bluetooth Device."
- 4. Push [▲]/[▼] to select the device to delete.
- 5. Push [Call history].
 - "Delete?" is displayed.
 - To cancel deleting, push any key other than [Call history].
- 6. Push [Call history].
 - The selected device is deleted from the pairing list, then exits the Set mode.





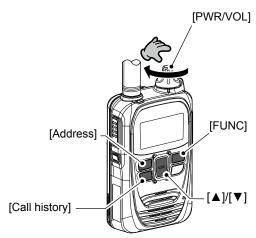
■ Initializing the pairing list of the IP501H/IP503H

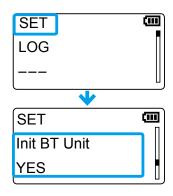
If you have some troubles with the Bluetooth operation, initialize the pairing list, as shown below.

①All the paired Bluetooth devices are deleted from the pairing list by the initialization.

The pairing list is not initialized by the "RESET" item in the Set mode.

- 1. While hold down [FUNC] and [Address], turn ON the power.
 - · Enters the Set mode.
- 2. Release [FUNC] and [Address] when "SET" is displayed.
- 3. Push [FUNC] several times to select "Initialize Bluetooth Unit."
- 4. Push [▲]/[▼] to select "YES."
 - To cancel the initialization, push any key other than [Call history].
- 5. Push [Call history].
 - The pairing list is initialized and the transceiver automatically restarts.

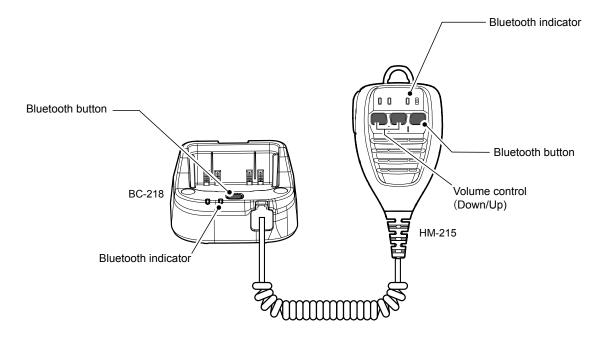




■ Initializing the pairing list of the BC-218

If you have some troubles with the Bluetooth operation, initialize the pairing list, as shown below.

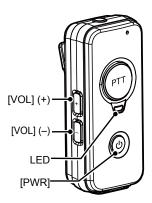
- 1. Connect the HM-215 to the BC-218.
- 2. Hold down the Bluetooth button on the BC-218 for 3 seconds, to turn ON the Bluetooth function.
 - The Bluetooth indicator Blinks blue.
- 3. Hold down the Bluetooth button on the BC-218 for 3 seconds again, to turn OFF the Bluetooth function.
 - The Bluetooth indicator turns OFF.
- 4. Within 10 seconds after holding down both [UP] and [DOWN] on the HM-215, hold down the Bluetooth button for 10 seconds.
 - The Bluetooth indicator lights violet, and the pairing list is initialized.



■ Initializing the pairing list of the VS-3

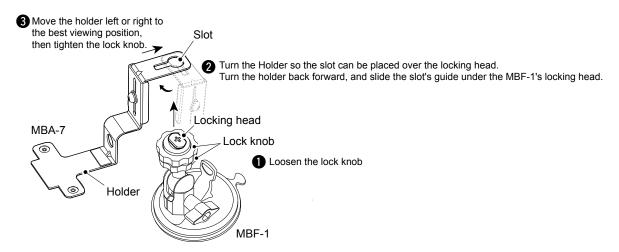
If you have some troubles with the Bluetooth operation, initialize the pairing list, as shown below.

- 1. Hold down [PWR] on the VS-3 for 3 seconds, to turn ON the Bluetooth function.
 - The LED Blinks blue.
- 2. Hold down [PWR] on the VS-3 for 3 seconds again, to turn OFF the Bluetooth function.
 - The LED turns OFF.
- 3. Within 10 seconds after holding down both [VOL] (-) and [VOL] (+), hold down [PWR] for 10 seconds.
 - The LED lights violet, and the pairing list is initialized.



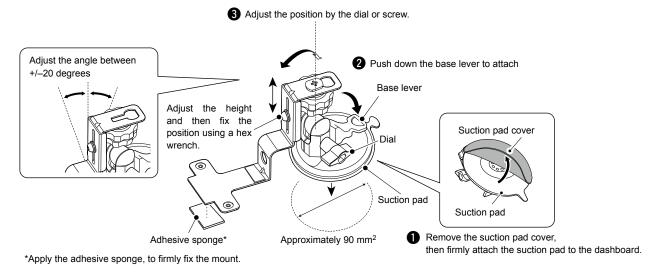
■ Installing the MBA-7/MBF-1 on a flat surface

- Clean the surface where the MBF-1 is attached to.
 To install the MBF-1, approximately 90 mm² of flat surface is necessary.
- 2. Attach the MBA-7 to the MBF-1.

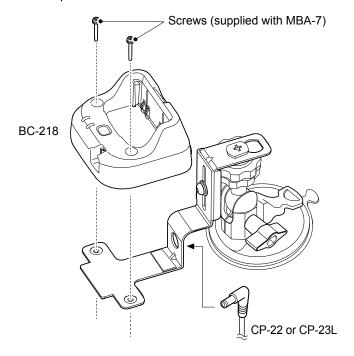


■ Installing the MBA-7/MBF-1 (continued)

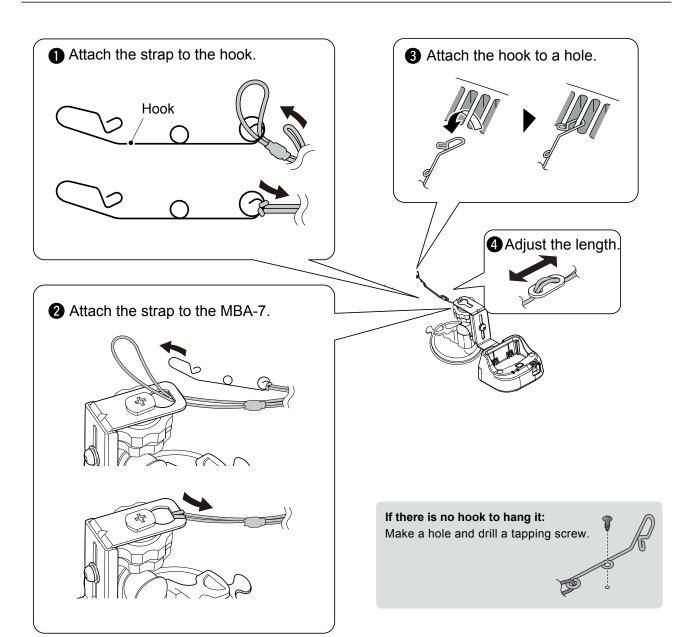
- 3. Make sure that the surface where MBF-1 is attached to is clean and dry, then attach the MBF-1.
- 4. Adjust the angle and position of MBA-7 with the MBF-1's adjusting dial and screw.



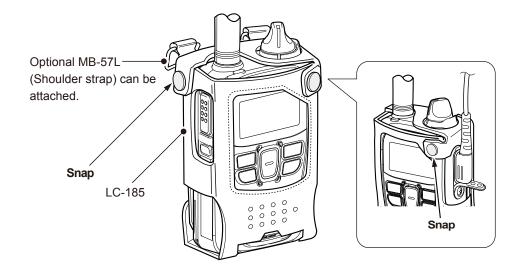
- 5. Attach the BC-218 to the MBA-7, then connect the DC cable.
- 6. Attach the strap for the fall prevention.



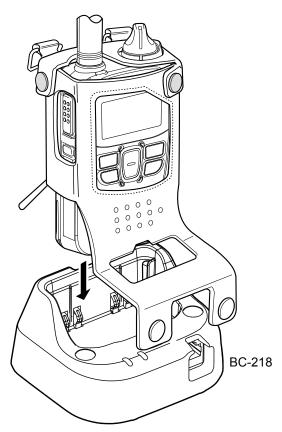
■ Installing the MBA-7/MBF-1 (continued)



■ LC-185 (For BP-272)

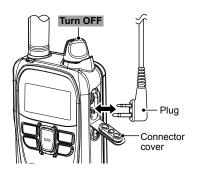


When you charge the BC-272 attached to the transceiver with LC-185, open the bottom part and insert to the BC-218, as shown below.



- When connecting optional equipment
 Be sure to turn OFF the power before connecting or disconnecting optional equipment to or from the jack.
- Remove the cable by holding the plug not cable.
- Insert the plug securely when connecting the cable.

①Attach the jack cover when no optional equipment is connected.







Connector cover is attached

Section 6

■ Troubleshooting	6-2
■ Specifications	6-4

■ Troubleshooting

The following chart is designed to help you to correct problems that are not equipment malfunctions. If you are unable to locate the cause of a problem, or solve it through the use of this chart, contact your dealer.

PROBLEM	POSSIBLE CAUSE	SOLUTION	REFERENCE
No power comes ON.	Loose connection of the battery pack.	Clean the battery pack terminals.	_
	The battery is exhausted.	Charge the battery pack.	_
	The battery pack's over-discharge protection circuitry is activated.	Remove the battery pack from the transceiver, then charge it for a while. Attach the battery pack to the transceiver again, then turn ON the power.	-
No sound comes from the speaker nor earphone.	Volume level is set too low.	Rotate [PWR/VOL] to increase the volume level.	p. 1-3
Calls cannot be made	The call-to party number or group number is wrong.	Check the call-to party number or group number.	pp. 2-4, 3-5
No reply is received	The "X" icon blinks.	Move your location, then try again.	
	The "X" icon displayed.	Push [PTT] to re-register the transceiver to the system. Wait for a while, or change your location. Check that the LTE line is established.	_
	The operator is away from the transceiver, or the transceiver is turned OFF.	Wait until the operator is back, or ask your system manager.	
"Key lock" is displayed when a key is pushed	The Key Lock function is turned ON.	Turn OFF the Key Lock function.	p. 1-7
The charging indicator blinks orange, or alternately blinks orange and green	The battery pack is not properly inserted.	Insert the battery pack properly.	pp. 5-6, 5-7
	Charging the battery pack outside of the chargeable temperature range.	Charge the battery pack in the chargeable temperature range. 10°C to 40°C (+50°F to +104°F)	p. 5-5
	Loose connection of charging transceivers.	Clean the charger terminals.]
	The transceiver power is ON while charging.	Turn OFF the power while charging.	_
The charging indicator is OFF even the battery pack is inserted to the charger.	The battery pack is not properly inserted.	Properly insert the battery pack.	pp. 5-6, 5-7
The "X" icon blinks, or	The transceiver is located out of the	Change your location, then try again.	
"Connecting" is displayed (standby screen is not displayed)	service area.	Reboot the transceiver.	_
The deleted recorded audio still exists	The battery pack was removed before the recorded audio was deleted from memory.	Remove the battery pack after "Power OFF" is displayed.	
The recorded audio is lost	The battery pack was removed before the recorded audio was stored into memory.		p. 3-7
Pairing failed	The transceiver is not in the Pairing mode.	Enter the Pairing mode.	p. 5-13
	There are other active Bluetooth devices	Stop using other Bluetooth devices.	_
	nearby.	Use the transceiver away from other Bluetooth devices.	_
	There are other devices that are operating in the 2.4 GHz band.	Use the transceiver away from the other devices, or stop using those devices.	_

■ Troubleshooting (continued)

PROBLEM	POSSIBLE CAUSE	SOLUTION	REFERENCE
"Paring list is full" is displayed in the Pairing screen.	Number of paired devices exceeds the maximum number.	Delete a Bluetooth device from the pairing list.	p. 5-21
The call was suddenly cut off /Noise is heard	Too far from the Bluetooth device. (When using a Bluetooth headset)	Get closer to the Bluetooth device. ①The communication range of Bluetooth is approximately 10 meters (33 feet).	_
	Electromagnetic interference from other electronic devices.	Use the transceiver away from the other devices, or stop using those devices.	-
No audio output from transceiver after the Bluetooth connection with BC-218 is disconnected.	The transceiver is in the Bluetooth signal detecting sequence. (Approximately 20 seconds)	Push the Bluetooth button on the BC-218 to disconnect the Bluetooth device, then turn OFF the BC-218 power.	-
No sound comes from the earphone that is connected to the VS-3.	The volume level is set too low.	Increase the VS-3's volume level. Increase the transceiver's volume level. (When "Bluetooth Synchronous Volume" is set to valid)	p. 5-11 pp. 1-3, 4-6
	Loose earphone plug connection.	Firmly insert the plug.	p. 1-4

■ Specifications

♦ General

Operating temperature range: $-10^{\circ}\text{C} \sim +60^{\circ}\text{C} (14^{\circ}\text{F} \sim 140^{\circ}\text{F})$

Humidity: Less than 25 ~ 85% (Without condensation)

Dimensions: 59 (W) × 95 (H) × 32 (D) mm (Projections not included, with BP-272)

Weight: Approximately 240 g (Including antenna and BP-272) Power supply: 7.4 V (with BP-272 Li-ion battery pack: 1880 mAh)

IP code: IP67/MIL-STD810G

Operating time: 17 hours (TX:RX:Standby=5:5:90, with BP-272)

♦ Audio

Codec: G.726

AF output power: IP501H More than 0.4 W (Internal speaker 16 Ω 10% distortion)

More than 0.2 W (External speaker 8 Ω 10% distortion) IP503H More than 0.9 W (Internal speaker 8 Ω 10% distortion)

More than 0.2 W (External speaker 8 Ω 10% distortion)

AF output impedance:

IP501H Internal speaker 16 Ω /External speaker 8 Ω Internal speaker 8 Ω /External speaker 8 Ω

♦ 3G (W-CDMA)

Frequency band:

 USA version
 B2, B5

 Europe version
 B1, B8

 IP503H
 B1, B5

Transmission power: 24 dBm (Typical)

♦LTE

Frequency band:

USA version FDD-LTE B2, B4, B5, B17 Europe version FDD-LTE B1, B3, B7, B8, B20

TD-LTE B38, B40

IP503H B1, B3, B5, B7, B8, B28 Transmission power: 23 dBm (Typical)

♦ GNSS

GPS: Supported 1575.42 MHz

GLONASS: Supported 1598.0625 ~ 1605.375 MHz

♦ Bluetooth

Frequency range: 2402 ~ 2480 MHz
Transmission power: 7.3 dBm (Maximum)
Version: Bluetooth Ver.2.1+EDR

Profile: HFP, HSP, SPP

■ Specifications (continued)

♦ BC-202IP2 RAPID CHARGER (Option)

Input voltage: DC 12 ~ 16 V (Used with the supplied BC-123S power adapter)

Operating temperature range: $10^{\circ}\text{C} \sim 40^{\circ}\text{C} (50^{\circ}\text{F} \sim 104^{\circ}\text{F})$

Weight: Approximately 105 g (Power adapter not included)

Dimensions: 88.0 (W) × 47.5 (H) × 72.5 (D) mm (Projections not included)

♦ BC-211 MULTI CHARGER (Option)

Input voltage: DC 12 ~ 16 V (Used with the supplied BC-157S power adapter)

Operating temperature range: 10°C ~ 40°C (50°F ~ 104°F)

Weight: Approximately 1200 g (Power adapter not included)

Dimensions: 303.2 (W) × 78.2 (H) × 179.7 (D) mm (Projections not included)

♦ BC-218 RAPID CHARGER (Option)

Input voltage: DC 12 ~ 16 V (Used with the supplied BC-207S power adapter)

Operating temperature range: $10^{\circ}\text{C} \sim 40^{\circ}\text{C} (50^{\circ}\text{F} \sim 104^{\circ}\text{F})$

Weight: Approximately 140 g (Power adapter not included)

Dimensions: 87.2 (W) × 48.7 (H) × 77 (D) mm (Projections not included)

Bluetooth version: Bluetooth Ver.2.1+EDR

Bluetooth profile: HFP, HSP, A2DP, AVRCP (Only HFP and HSP are guranteed)

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Count on us!