



## OPERATING INSTRUCTIONS

VHF DIGITAL/ANALOG TRANSCEIVERS  
**IC-F3200DEX**  
series

UHF DIGITAL/ANALOG TRANSCEIVERS  
**IC-F4200DEX**  
series

## INTRODUCTION

1 ACCESSORIES

2 PANEL DESCRIPTION

3 BASIC OPERATION

4 NXDN™ OPERATION

5 SPEAKER MICROPHONE

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# INTRODUCTION

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## FOREWORD

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Thank you for choosing this Icom product.  
The IDAS™ NXDN™ system operation is built into your transceiver.

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## IMPORTANT

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### **FIRST, CAREFULLY READ INSTRUCTIONS**

① PRECAUTIONS and ② INSTRUCTIONS that are provided with the transceiver.

**SAVE THIS OPERATING GUIDE—** This operating guide contains additional important operating instructions for the IC-F3201DEX, IC-F3202DEX and IC-F3203DEX VHF DIGITAL/ANALOG TRANSCEIVERS and the IC-F4201DEX, IC-F4202DEX and IC-F4203DEX UHF DIGITAL/ANALOG TRANSCEIVERS.

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## NOTE

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To use in explosive environments, read the “SAFETY MANUAL” leaflet that comes with the transceiver.

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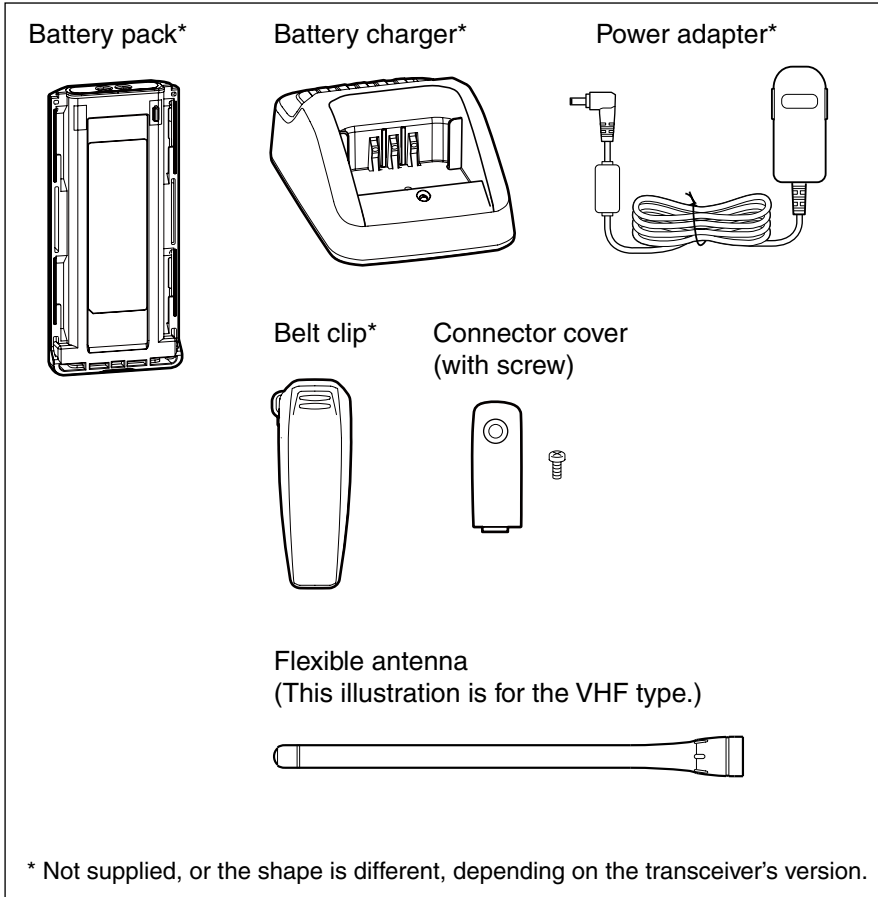
# Section 1 ACCESSORIES

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## Supplied accessories

The following accessories are supplied.



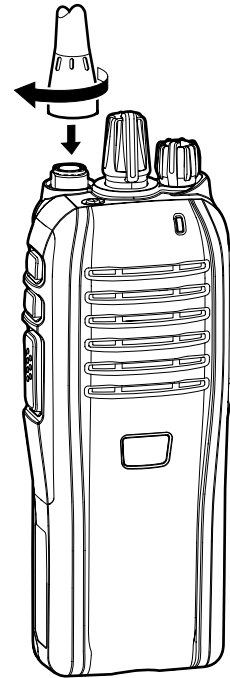
## Attaching accessories

### ◇ Flexible antenna

Connect the supplied flexible antenna to the antenna connector.

#### CAUTION:

- **NEVER** carry the transceiver by holding only the antenna.
- **DO NOT** connect any antenna other than those listed in the basic instructions.
- Transmitting without an antenna will damage the transceiver.



### ◇ Battery pack

#### To attach the battery pack:

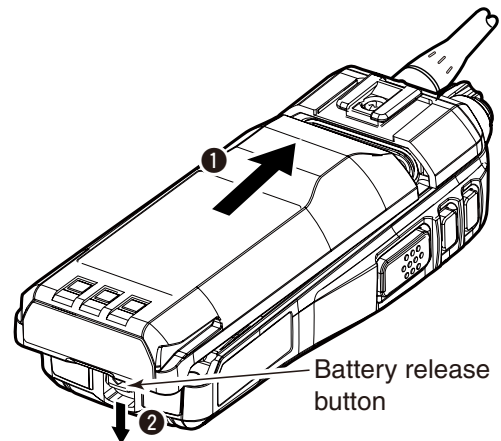
Slide the battery pack on the back of the transceiver in the direction of the arrow (1) until the battery release button makes a 'click' sound.

#### To remove the battery pack:

Slide the battery release button in the direction of the arrow (2), as shown to the right. The battery pack is then released, and you can remove it.

**NEVER** remove or attach the battery pack when the transceiver is wet or soiled. This may result in water or dust getting into the transceiver/battery pack and may damage them.

**NOTE:** Keep the battery pack terminals clean. It's a good idea to occasionally clean them.



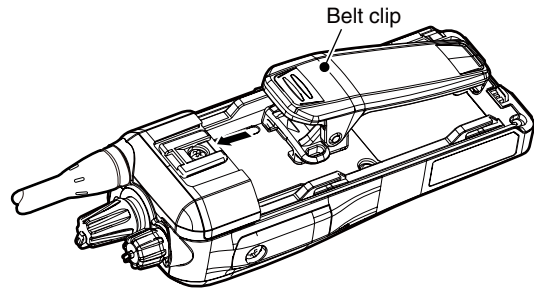
Attaching accessories (Continued)

◆ **Belt clip**

Before attaching or detaching the belt clip, remove the battery pack if it is attached.

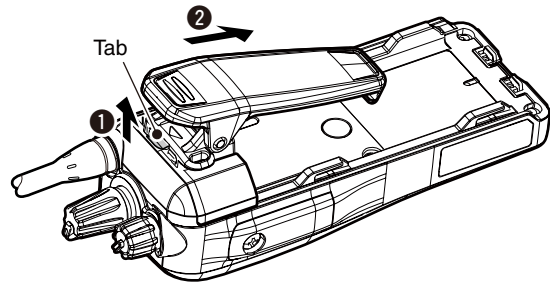
**To attach the belt clip:**

- ➔ Slide the belt clip in the direction of the arrow until it locks and makes a 'click' sound.



**To detach the belt clip:**

- ➔ Lift the tab up (1), and slide the belt clip in the direction of the arrow (2).



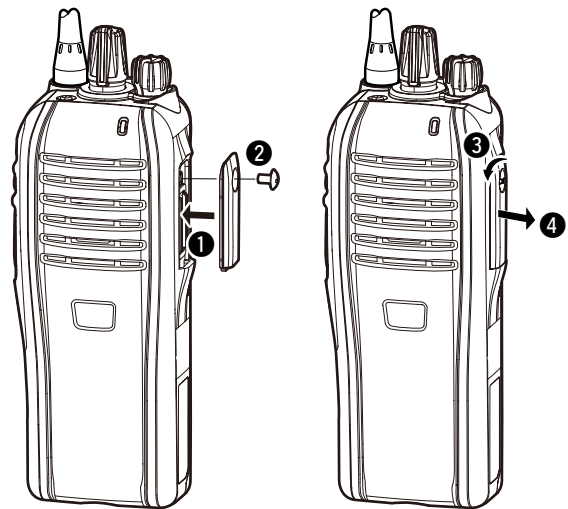
◆ **Connector cover**

**To attach the connector cover:**

- 1 Place the connector cover over the multi-connector. (1)
- 2 Tighten the screw. (2)

**To detach the connector cover:**

- 1 Remove the screw using a Phillips screwdriver. (3)
- 2 Detach the connector cover to connect optional equipment. (4)



/// **CAUTION:**

Attach the connector cover when the optional accessory is not used. Otherwise, the terminals of the multi-connector may be shorted, and this could damage the transceiver.

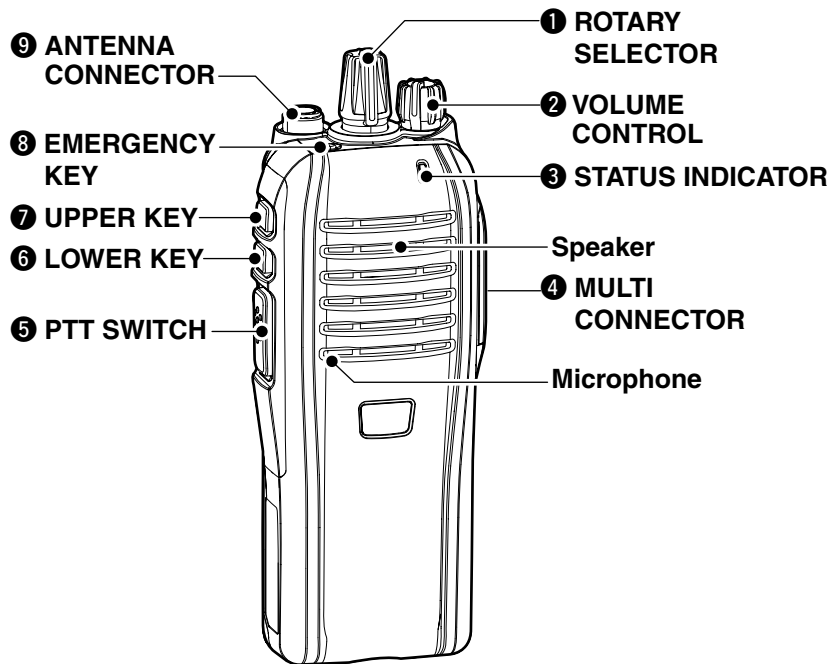
## Section 2

## PANEL DESCRIPTION

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## Front, top and side panels



### 1 ROTARY SELECTOR

Rotate to select the preprogrammed memory channels or scan lists, depending on the presetting.

### 2 VOLUME CONTROL [VOL]

Rotate to turn the power ON or OFF, and adjust the audio level.

### 3 STATUS INDICATOR (p. 2-3)

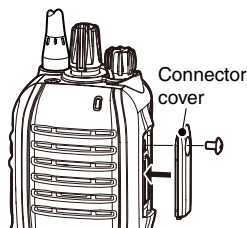
- Lights red while transmitting.
- Lights green while receiving a signal, or when the squelch is open.
- Lights/blinks orange when a matched 2/5-Tone code is received, depending on the presetting.

### 4 MULTI CONNECTOR

Connect an optional accessory.

#### CAUTION:

Attach the connector cover when an optional accessory is not used. Otherwise, the terminals of the multi-connector may be shorted, and this could damage the transceiver.



### 5 PTT SWITCH [PTT]

Hold down to transmit, release to receive.

### 6 LOWER KEY [Lower]

### 7 UPPER KEY [Upper]

A desired functions can be preset. (p. 2-4)

### 8 EMERGENCY KEY [Emer]

A desired functions can be preset. (p. 2-4)

### 9 ANTENNA CONNECTOR

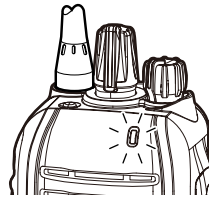
Connect the antenna.



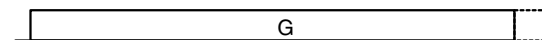
## Status indicator

The status indicator indicates the various parameters of the transceiver as described below.

(Reference: R is Red, G is Green, O is Orange)



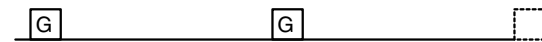
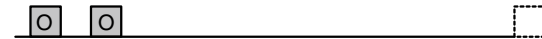
- TX:  
Lights Red while transmitting.
- RX busy:  
On an analog channel, lights Green when the noise squelch opens. On a digital or mixed channel, lights Green while detecting a frame synchronization.
- Call LED:  
Turns ON or blinks\* when receiving a matched 2/5-Tone, or a Call Alert.  
\*Depending on the presetting.
- Fast or Slow scan:  
Blinks when scanning for a channel to search for a signal.
- Low Battery 1:  
You should charge the battery soon. (blinks slowly)
- Low Battery 2:  
You must charge the battery. (blinks fast)
- TX low Battery 1:  
Low Battery was detected in the TX mode.
- TX low Battery 2:  
Very Low Battery was detected in the TX mode.
- Channel Error:  
Continuously blinks when a non-programmed channel is selected.
- Power ON:  
Blinks at transceiver startup.



(When turns ON)

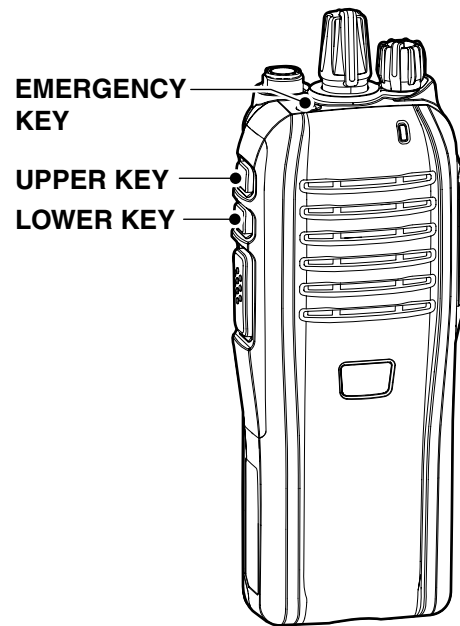


(When blinks)



## Programmable function keys

The following functions can be assigned to the [Upper], [Lower] and [Emer] programmable function keys.



### Programmable function keys (Continued)

The following functions can be assigned to the [Upper], [Lower] and [Emer] programmable function keys.

#### **SCAN**

Push to start and cancel scanning.

- When the scan started with the Power ON Scan or Auto Scan function, push to pause the scan. The paused scan resumes after the preset time period has passed.

#### **PRIORITY A CHANNEL, PRIORITY B CHANNEL**

Push to select the Priority A or Priority B channel.

#### **PRIORITY A CHANNEL (REWRITE), PRIORITY B CHANNEL (REWRITE)**

- ➔ Push to select the Priority A or Priority B channel.
- ➔ Hold down [Prio A (Rewrite)] or [Prio B (Rewrite)] for 1 second to assign the operating channel to the Priority A or Priority B channel, respectively.

#### **MEMORY CHANNELS 1, 2, 3, 4**


Push to directly select memory channel 1, 2, 3 or 4, if preprogrammed.

#### **LONE WORKER** (p. 3-13)

- ➔ Hold down for 1 second to turn ON the Lone Worker function.
  - When the Lone Worker function is turned ON, and no operation is performed for the preset time period, the Emergency function is automatically turned ON.
- ➔ Push to turn OFF the Lone Worker function.

#### **MONITOR, MONITOR (AUDIBLE)**

- ➔ Push to turn the CTCSS (DTCS) or 2/5-Tone squelch Mute ON or OFF.
  - Only during LMR operation, push to open any squelch functions, or deactivate any mute functions.
  - Only during PMR operation, push to activate one or two of the following functions on each channel.
    - Hold down to unmute the channel (Audible mode).
    - Push to mute the channel (Inaudible mode).
    - Push to send a 'reset code' after the communication is finished.
      - \*Depending on the presetting.

 **NOTE:** The unmute condition may automatically return to the mute condition, after a preset time period.

- ➔ Depending on the presetting, holding down this key for 1 second cancels a scan.

#### **LOCK**

Hold down to electronically lock all programmable keys except [Moni(Audi)], [Call] (including Call A and Call B), [Emergency], [Surveillance] and [Lone Worker].

#### **HIGH/LOW** (p. 3-12)

Select the transmit output power level temporarily or permanently, depending on the presetting.

#### **TALK AROUND**


- ➔ Hold down for 1 second to turn ON the Talk Around function.
  - The Talk Around function equalizes the transmit frequency to the receive frequency for transceiver-to-transceiver communication.
- ➔ Push to turn OFF the Talk Around function.

#### **DTMF AUTODIAL**

Push to transmit a programmed DTMF code.

#### **RE-DIAL**

Push to transmit the last-transmitted DTMF code.

 **NOTE:** TX memories are cleared after turning OFF the transceiver.

#### **WIDE/NARROW**

- ➔ Push to switch the channel width to Wide.
- ➔ Hold down for 1 second to switch the channel width to Narrow.

#### **CALL, CALL A, CALL B**

Push to transmit a 2/5-Tone code.

- Tone call transmission may be necessary before you call another station, depending on your signaling system.
- [Call A] and/or [Call B] keys may be selectable when your system employs selective 'Individual/Group' calls.

#### **EMERGENCY**

Hold down for a preset time period to transmit an emergency call.

- The emergency call transmits with beeps, and the status indicator lights red.
- The transceiver can transmit an emergency call without the beep sounding and the status indicator lighting.
- If you want to cancel the emergency call, hold down the key again before transmitting the call.
- The emergency call is transmitted one time only, or repeatedly until receiving an acknowledgement signal, or until the power is turned OFF.

Depending on the presetting, receiving a matching signal cancels the transmission.

### Programmable function keys (Continued)

#### ***SURVEILLANCE***

- Hold down for 1 second to turn ON the Surveillance function.
  - When this function is turned ON, the beep is not heard and the status indicator does not light when a signal is received, or a key is pushed.
- Push to turn OFF the Surveillance function.

#### ***SIREN***

Hold down for 1 second to sound a siren. This function can be used for situations other than an emergency alert, such as a security alarm for example. The transceiver sounds the siren until the power is turned OFF.

#### ***ENCRYPTION***

- While in the digital mode, hold down for 1 second to turn ON the Encryption function.
- Push to turn OFF the Encryption function.

#### ***ANNOUNCE***

Push to turn the Channel Announce function ON or OFF.

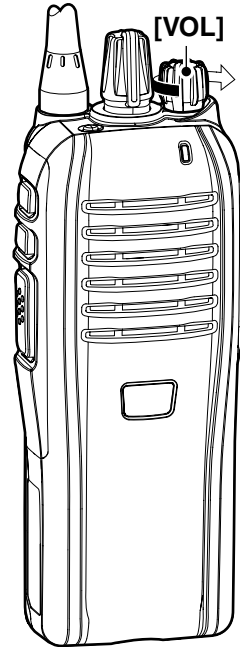
- When this function is ON, the position of [ROTARY SELECTOR] (between 1 and 16) is announced as you rotate it between 1 and 16.

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## Turning ON the power

Prior to using the battery pack for the first time, or after not using it for a long time, you must fully charge the pack for optimum battery life and operation. See BASIC INSTRUCTIONS that are provided with the transceiver for details.

➡ Rotate [VOL] to turn ON the power.



## Selecting a channel

### ◇ Selecting a channel

To select the desired operating channel:

- Rotate [ROTARY SELECTOR].
- Push one of the memory channel keys, [MR-CH 1] to [MR-CH 4].
- Push [Prio A], [Prio B], [Prio A (Rewrite)] or [Prio B (Rewrite)].

### **AUTOMATIC SCAN TYPE:**

Selecting a channel is not necessary. When turning ON the power, the transceiver automatically starts scanning. Scanning stops when a signal is detected.

### ◇ Priority A channel selection

When one of the following operations is performed, the transceiver automatically selects the Priority A channel.

#### • Turning ON the power

The Priority A channel is selected each time the transceiver power is turned ON.

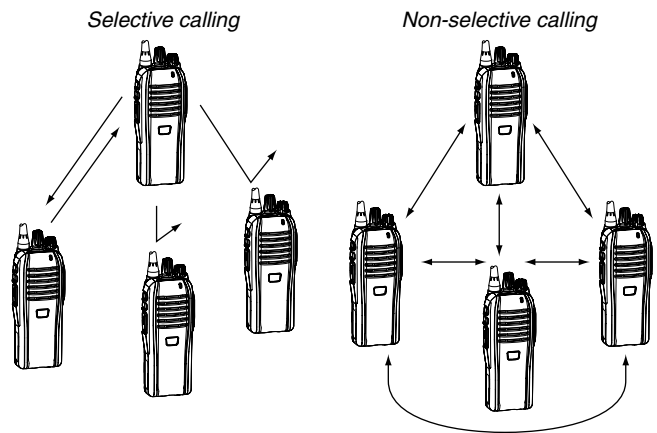
#### • Auto reset

The Priority A channel is selected when the Auto Reset timer ends.

## Call procedure

When your system uses tone signaling (excluding CTC-SS and DTCS), the tone call procedure may be necessary prior to voice transmission. The tone signaling that is used in the transceiver may be a selective calling system, which allows you to call only specific station(s), and prevents unwanted stations from contacting you.

- ① Select a desired TX code channel or 2/5-Tone code, according to your System Operator's instructions.
  - This may not be necessary, depending on the presetting.
- ② Push [Call] (assigned to [Upper], [Lower] or [Emer]). (p. 2-5)
- ③ After transmitting a 2/5-Tone code, the remainder of your communication can be made normally.





## Receiving and transmitting

### Receiving:

- ① Rotate [VOL] to turn ON the power.
- ② Select a channel.
  - Rotate [ROTARY SELECTOR].
  - Push one of the memory channel keys, [MR-CH 1] to [MR-CH 4].
- ③ When receiving a call, adjust the audio output to a comfortable listening level.

**NOTE:** When the Auto TX function is ON, after receiving a matched RX code signal, the transceiver automatically transmits its microphone audio for a preset time period.

### Transmitting:

**CAUTION:** Transmitting without an antenna will damage the transceiver. See page 1-3 for antenna attachment.

Wait for the channel to become clear to avoid interference.

- ① While holding down [PTT], speak into the microphone at your normal voice level.
- ② Release [PTT] to receive.

**NOTE:** To maximize the readability of your signal:

1. Pause briefly after pushing [PTT].
2. Hold the microphone 5 to 10 cm (2 to 4 inches) from your mouth, then speak at your normal voice level.

### ◇ Transmitting notes

#### • Transmit inhibit function

The transceiver has several inhibit functions, which restrict transmission under the following conditions:

- The channel is muted. (PMR operation only)
- The channel is busy.
- A signal with an unmatched (or matched) CTCSS (or DTCS) tone is received.
- The selected channel is a 'receive only' channel.

#### • Time-out timer

After continuously transmitting longer than the preset time period, the time-out timer stops further transmitting.

#### • Penalty timer

Once the time-out timer activates, transmitting is further inhibited for a time period determined by the penalty timer.

#### • PTTID call

The transceiver automatically sends the ID code (5-Tone, DTMF, BIIS or MDC) when [PTT] is pushed (beginning of the transmission) and/or released (end of transmission), depending on the presetting.

### Receiving and transmitting (Continued)

#### ◇ **DTMF transmission**

If the transceiver has [DTMF Autodial] assigned to it, you can use the automatic DTMF transmission function.

➔ Push [DTMF Autodial] to transmit the DTMF code.

#### ◇ **Receiving a Stun, Kill and Revive command**

The dispatcher can send a command signal that will stun, kill or revive your transceiver.

When the Stun command is received, a beep sounds\*, and the transceiver becomes unusable. Receiving a Revive command is necessary to operate the transceiver again in this case.

When the Kill command is received, a beep sounds\*, and the transceiver becomes unusable. Cloning the transceiver is necessary to operate the transceiver again in this case.

\*Depending on the presetting.

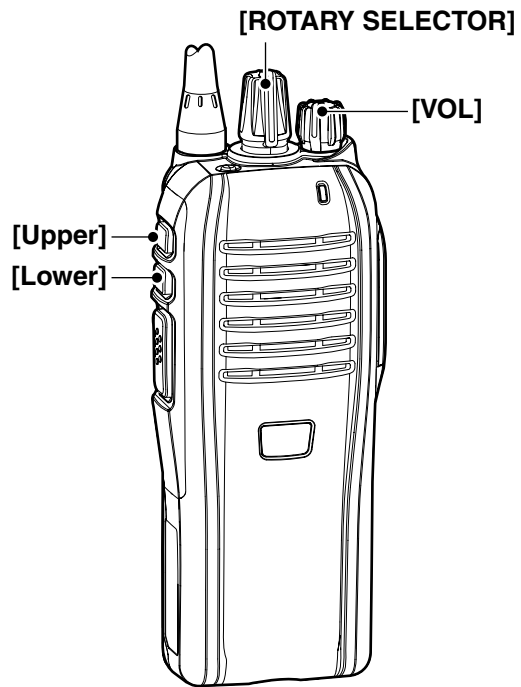
## Setting the Beep function

The Beep function can be turned ON or OFF. When it is OFF, the channel announcement is also turned OFF.

**NOTE:** You must turn ON the Beep function when you set the microphone gain or the squelch level to check the current level setting with the beep sounding. (pp. 3-10, 3-11)

- ① Rotate [VOL] to turn OFF the transceiver power.
- ② Set [ROTARY SELECTOR] to any channel other than Channel 16.
- ③ While holding down [Lower], rotate [VOL] to turn ON the power to enter the Beep level adjustment mode.
- ④ Push [Lower] to turn the Beep function ON or OFF.
  - When a beep sounds after pushing [Lower], the Beep function is ON. When no beep sounds after pushing [Lower], the Beep function is OFF.
  - If desired, push [Upper] to adjust the Beep level. See page 3-8 for details.
- ⑤ Rotate [VOL] to turn OFF the power to exit the Beep level adjustment mode.

**NOTE:** This operation may not be available, depending on the presetting.



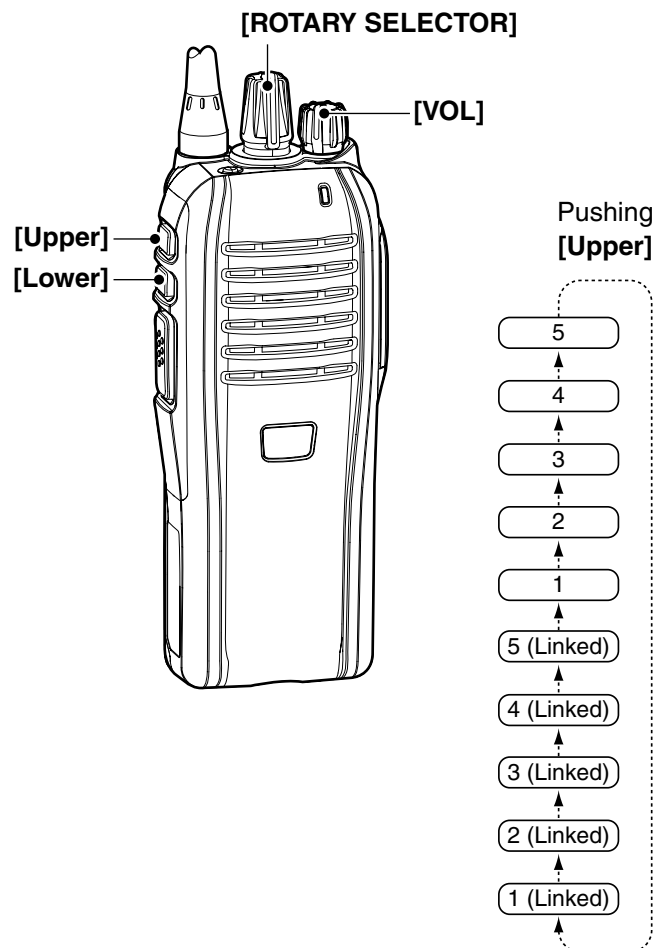
## Setting the beep level

You can adjust the beep level between 1 and 5, or 1 (linked) and 5 (linked).

When a linked level is selected, you can adjust the beep level by rotating [VOL].

- ① Rotate [VOL] to turn OFF the transceiver power.
- ② Set [ROTARY SELECTOR] to any channel other than Channel 16.
- ③ While holding down [Lower], rotate [VOL] to turn ON the power and enter the beep level adjustment mode.
- ④ Push [Upper] to change the beep level as shown to the right.
  - A beep sounds every time you push [Upper]. Therefore, you can determine the current level setting by the increasing loudness of the beep that sounds.
  - To determine if you have selected a linked level, set [VOL] to minimum, then push [Upper] repeatedly, listening for the loudest beep (level 5). Pushing [Upper] once after the loudest beep will select 1 (Linked). Repeatedly push [Upper] to select the desired linked level.
- ⑤ Rotate [VOL] to turn OFF the power to exit the beep level adjustment mode.

/// **NOTE:** This operation may not be available, depending on the presetting.



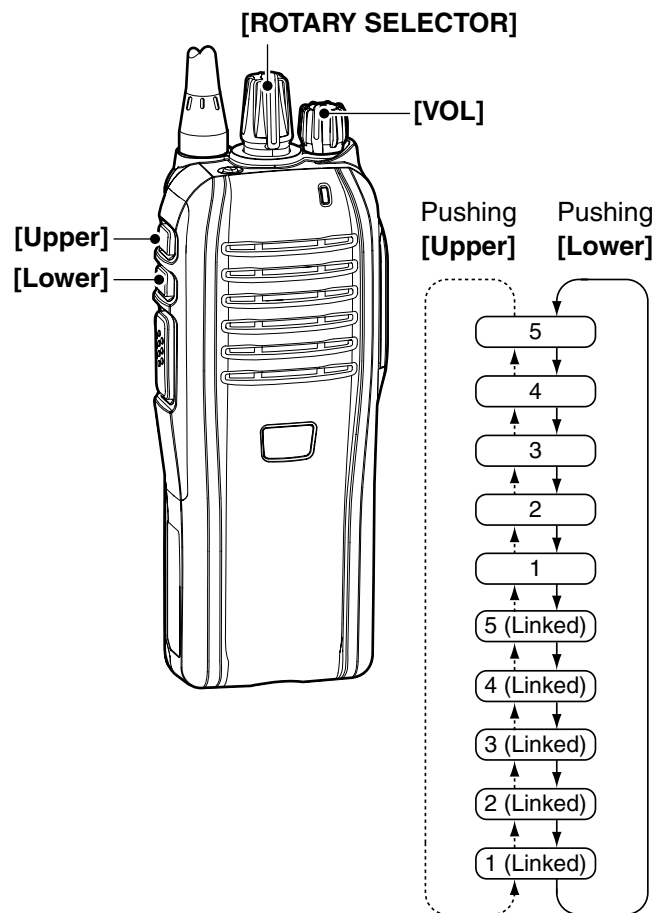
## Setting the ringer level

You can adjust the ringer level between 1 and 5, or 1 (linked) and 5 (linked).

When a linked level is selected, you can adjust the ringer level by rotating [VOL].

- ① Rotate [VOL] to turn OFF the transceiver power.
- ② Set [ROTARY SELECTOR] to Channel 16.
- ③ While holding down [Lower], rotate [VOL] to turn ON the power and enter the ringer level adjustment mode.
- ④ Push [Upper] to increase, or push [Lower] to decrease the ringer level as shown to the right.
  - A beep sounds after pushing [Upper] or [Lower]. Therefore, you can determine the current level setting by the increasing loudness of the beep that sounds.
  - To determine if you have selected a linked level, set [VOL] to minimum, then push [Upper] up to 10 times, listening for the loudest beep (level 5). Pushing [Upper] once after the loudest beep will select 1 (Linked). Repeatedly push [Upper] or [Lower] to select the desired linked level.
- ⑤ Rotate [VOL] to turn OFF the power to exit the ringer level adjustment mode.

/// **NOTE:** This operation may not be available, depending on the presetting.

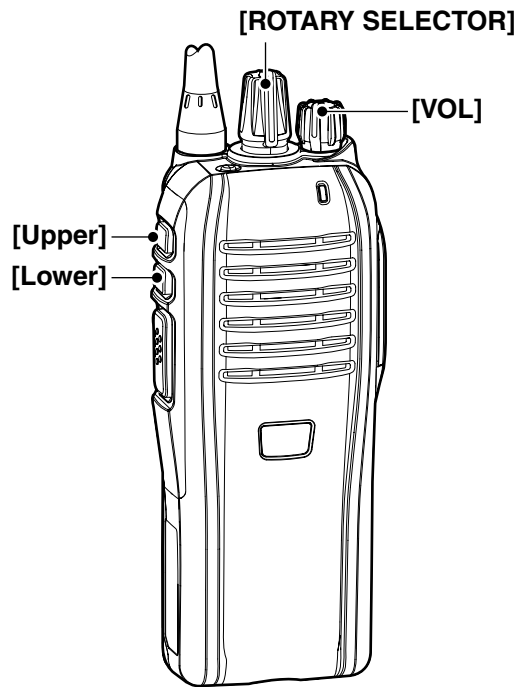


## Setting the microphone gain

Higher levels make the microphone more sensitive to the user's voice.

- ① Rotate [VOL] to turn OFF the transceiver power.
- ② Set [ROTARY SELECTOR] to Channel 16.
- ③ While holding down [Upper], rotate [VOL] to turn ON the power and enter the microphone gain adjustment mode.
- ④ Push [Upper] or to increase, or push [Lower] to decrease the microphone gain.
  - The adjustable range is 1 (minimum) to 4 (maximum).
  - A beep sounds after pushing [Upper] or [Lower].  
An error beep sounds if you try to exceed the adjustable range.
- /// **NOTE:** The Beep function should be turned ON. (p. 3-7)
- ⑤ Rotate [VOL] to turn OFF the power to exit the microphone gain adjustment mode.

/// **NOTE:** This operation may not be available, depending on the presetting.



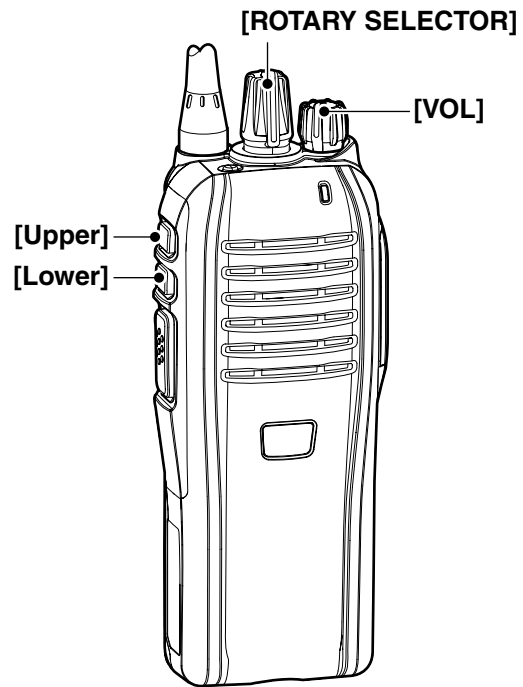
## Setting the squelch level

The squelch circuit mutes the received audio signal, depending on the signal strength.

- ① Rotate [VOL] to turn OFF the transceiver power.
- ② Set [ROTARY SELECTOR] to any channel other than Channel 16.
- ③ While holding down [Upper], rotate [VOL] to turn ON the power and enter the squelch level adjustment mode.
- ④ Push [Upper] to increase the squelch level (tight squelch), or push [Lower] to decrease the squelch level (loose squelch).
  - The adjustable range is 0 (loose squelch) to 9 (tight squelch).
  - A beep sounds after pushing [Upper] or [Lower]. An error beep sounds if you try to exceed the adjustable range.
- ⑤ Rotate [VOL] to turn OFF the power to exit the squelch level adjustment mode.

/// **NOTE:** The Beep function should be turned ON. (p. 3-7)

/// **NOTE:** This operation may not be available, depending on the presetting.



## Setting the output power level

If the transceiver has [High/Low] assigned to it, the transmit output power level can be selected, depending on the presetting.

When the battery voltage drops to where the status indicator indicates "Low Battery 2," the output power automatically switches to "Low 1." (p. 2-3)

➔ Push [High/Low] to set the transmit output power level.

- One beep sounds when "Low 1" is selected.
- Two beeps sound when "Low 2" is selected.
- Three beeps sound when "High" is selected.



## Making an Emergency Call

When [Emergency] is held down for the preset time period, the emergency signal is transmitted once, or repeatedly\*, on the specified emergency channel.

\* Depending on the presetting.

When no emergency channel is specified, the signal is transmitted on the operating channel.

A repeat emergency signal is automatically transmitted until you turn OFF the power.

Depending on the presetting, receiving a matching signal cancels the transmission.

If you want to cancel the emergency call, hold down [Emergency] again before transmitting the call.

If your transceiver is programmed for Silent operation, you can transmit an Emergency call without the beep sounding and the status indicator lighting.

**IMPORTANT:** We recommend you set an emergency channel individually to provide for reliable emergency call operation.

### NOTES

Depending on the presetting, the following functions are automatically activated.

#### • Auto TX function

After the emergency call transmission, audio from the microphone is automatically transmitted for a preset time period.\*

#### • Auto RX function

After the emergency call transmission, the transceiver stands by in the Audible mode for a preset time period.\*

\* Depending on the presetting.

### ◇ Lone Worker Emergency Call

When the Lone Worker function is turned ON, and no operation is performed for the preset time period\*, the transceiver enters the emergency mode, and then the countdown for the emergency call transmission starts.

After the preset time period\* has passed, an emergency call is automatically transmitted once, or repeatedly\*.

If someone operates the transceiver before the call is transmitted, the transceiver exits the emergency mode, and the emergency call is cancelled.

\* Depending on the presetting.

① Hold down [Lone Worker] for 1 second to turn ON the Lone Worker function.

② Push [Lone Worker] to turn OFF the Lone Worker function.

### ◇ Man Down Emergency Call

When the transceiver has been left in a horizontal position for a preset time period, the transceiver enters the emergency mode, and then the countdown for the emergency call transmission starts.

After the preset time period, an emergency call is automatically transmitted once, or repeatedly, depending on the presettings.

If the transceiver is placed in a vertical position before the first transmission, it exits the emergency mode and the emergency call is cancelled.

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## **NXDN™ operation**

The transceiver provides Icom Digital Advanced System (IDAS™) that meets the 6.25 kHz emission mask requirements for narrow banding, and increases efficiency of channel allocation and use of spectrum using the NXDN™ common air interface.

/// **NOTE:** During the NXDN™ system operation, BISS 1200 and MDC 1200 system operations are not usable.

You can use a preset operation type in a zone.

### ◇ **Conventional mode**

The Conventional system enables normal digital mode channel management by manually selecting a channel.

### ◇ **Trunking mode**

The Trunk system enables further effective channel management by sharing a minimum number of channels with a large number of users.

/// **NOTE:** While in the Trunking mode, you can receive and transmit digital calls in the same way as in the Conventional mode.

## Receiving a call

### ◇ Receiving a Call Alert

- ① When a Call Alert is received:
  - The transceiver will automatically transmit the acknowledgement.
  - The status indicator blinks orange.
  - Beeps sound.
- ② Hold down [PTT], then speak into the microphone.
- ③ Release [PTT] to receive a response.

/// **NOTE:** The status indicator or Beeps may differ, depending on the presetting.

### ◇ Receiving a Stun, Kill or Revive

If an individual call with Stun or Kill command is received (RAN code matching is not necessary depending on the presetting), the transceiver will automatically transmit the acknowledgement, and then you cannot receive\* or transmit.

\* Depending on the received Stun command setting.

- When a Stun command is received:
  - The transceiver cannot be operated until the individual call with Revive command is received (RAN code matching is not necessary depending on the presetting) or until the data cloning is performed.
  - Even if [ROTARY SELECTOR] is changed, the transceiver will keep the same channel as the Stun command is received.
- When a Kill command is received:
  - The status indicator alternately blinks red and green.
  - The transceiver cannot be operated until data cloning is performed.

/// **NOTE:** Depending on the presetting, the transceiver can ignore the Stun, Revive and Kill commands, which are from a non-specified station.

### ◇ Receiving a Remote Monitor or Radio Check Call

If an individual call with Remote monitor or Radio check command is received (RAN code matching may not be necessary, depending on the presetting), the transceiver will automatically transmit.

- When a Remote monitor command is received:
  - The transceiver will automatically transmit the acknowledgement, and then it transmits the microphone audio for the preset time period.
- When a Radio check command is received:
  - The transceiver will automatically transmit the acknowledgement.

## Transmitting a call

### ◇ Transmitting an Emergency Call

When [Emergency] is held down for the preset time period, the emergency signal (digital command) is transmitted once, or repeatedly\*, on the specified emergency channel.

\* Depending on the presetting.

When no emergency channel is specified, the signal is transmitted on the operating channel.

When the Repeat Cancel function is ON, the transceiver cancels repeating after receiving an acknowledgement.

When the Repeat Cancel function is OFF, the transceiver repeats calling according to the number of repeat cycles, even after receiving an acknowledgement.

Individual or Talkgroup call types of emergency calls can be preset. If the call type is not preset, the default or selected call type is used.

If you want to cancel the emergency call, hold down [Emergency] again before transmitting the call.

If your transceiver is programmed for Silent operation, you can transmit an Emergency call without the beep sounding and the status indicator lighting.

The transceiver can also be programmed to keep the microphone open during an emergency call, allowing other persons to monitor the situation.

**IMPORTANT:** We recommend you set an emergency channel individually to provide reliable emergency call operation.

**NOTE:** If the Request Acknowledge function is ON, the transceiver transmits the emergency call with the request to send back an acknowledgment.

### ◇ Man Down Emergency Call

When the transceiver has been left in a horizontal position for a preset time period, the transceiver enters the emergency mode, and then the countdown for the emergency call transmission starts.

After the preset time period, an emergency call is automatically transmitted once, or repeatedly, depending on the presettings.

If the transceiver is placed in a vertical position before the first transmission, the transceiver exits the emergency mode and the emergency call is cancelled.

## Transmitting a status message

A status message can be transmitted when the transceiver is turned ON or OFF.

- Select a status message in “Power ON Status” or “Power OFF Status” item to be automatically transmitted at power ON or OFF.
- Select a target station ID in the “Power Status ID” item.

## Encryption function

The Encryption function enables voice scrambling, which provides private digital communication between stations.

- ① Hold down [Encryption] for 1 second to turn ON the Encryption function.
- ② Push [Encryption] to turn OFF the Encryption function.

# Section 5

# SPEAKER MICROPHONE

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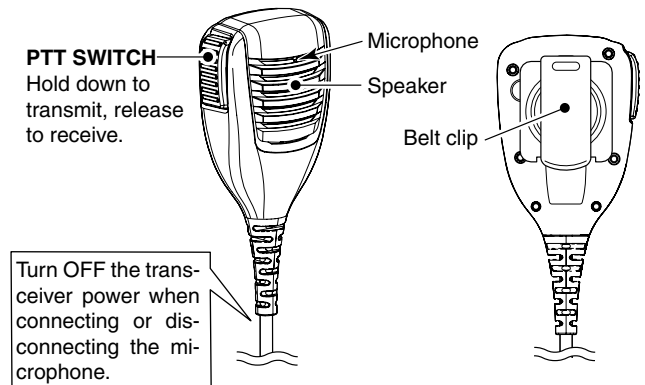


## Optional HM-203EX

### ◇ Description

/// **NEVER** immerse the connector in water. If the connector becomes wet, be sure to dry it **BEFORE** connecting it to the transceiver.

/// **NOTE:** The microphone is located at the top of the speaker microphone, as shown in the diagram above. To maximize the readability of your transmitted signal (voice), hold the microphone approximately 5 to 10 cm (2 to 4 inches) from your mouth, and speak at your normal voice level.

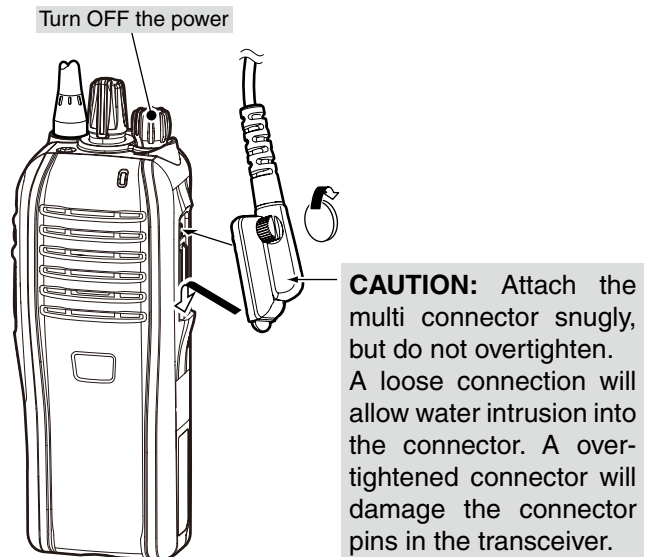


### ◇ To attach

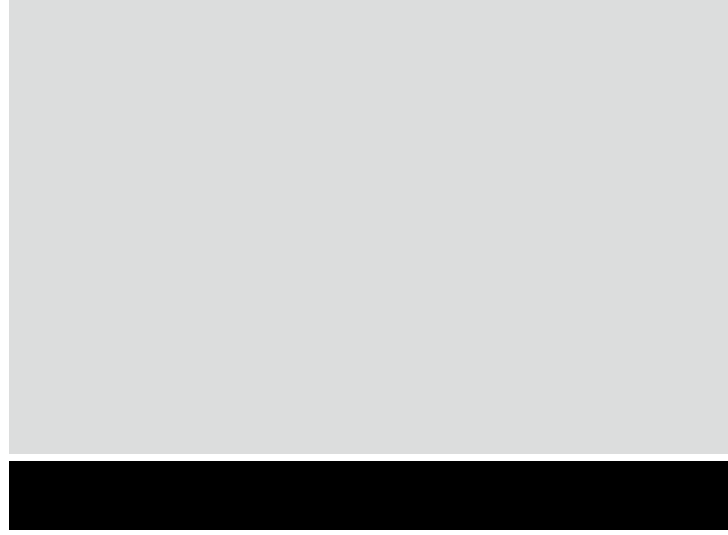
/// **BE SURE** to turn OFF the power before attaching.

➔ Attach the connector of the speaker microphone into the multi connector on the transceiver, and tighten the screw.

/// **IMPORTANT: KEEP** the connector cover attached to the transceiver when the speaker microphone is not in use. (p. 1-4)  
Water will not get into the transceiver even if the cover is not attached, however, the terminals (pins) will become rusty, or the transceiver will function abnormally if the connector becomes wet.



**Count on us!**



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