ICOM

OPERATING GUIDE

VHF TRANSCEIVERS

IC-F1000 Series

UHF TRANSCEIVERS

IC-F2000 Series

Icom Inc.

MDC 1200 Compatible

The photo shows the UHF transceivers.

▲ Non-display type ▲ Simple type ▲ 10-key type

IMPORTANT

We appreciate you choosing Icom for your communication needs.

The MDC 1200 signaling system is built into your IC-F1000/ IC-F2000 series transceiver.

READ ALL INSTRUCTIONS carefully and completely before using the transceiver.

SAVE THIS OPERATING GUIDE — This operating guide contains important operating instructions for:

- **IC-F1000, IC-F1000S,** and **IC-F1000T**
  VHF TRANSCEIVERS
- **IC-F2000, IC-F2000S,** and **IC-F2000T**
  UHF TRANSCEIVERS

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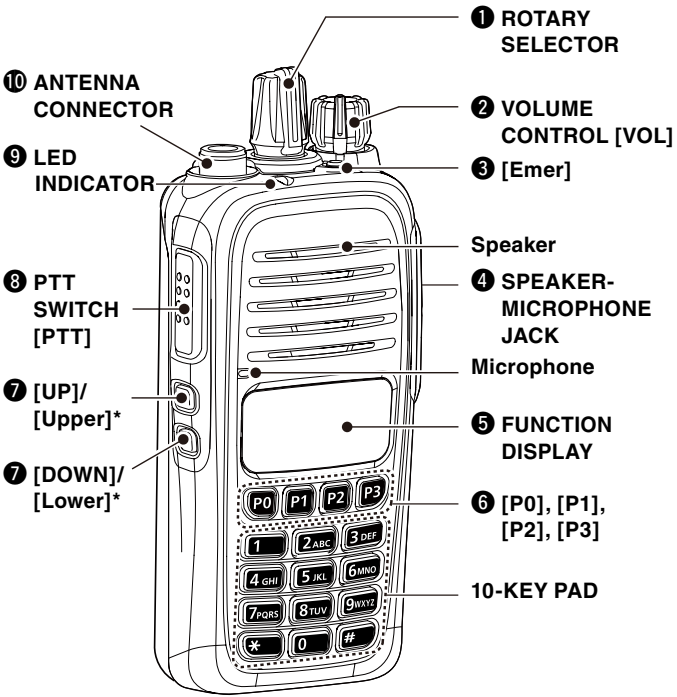
1 PANEL DESCRIPTION

■ Front, top and side panels



* Names for the non-display type transceiver

There are three types of transceivers in the IC-F1000 and IC-F2000 series.

IC-F1000/F2000: Non-display type
IC-F1000S/F2000S: Simple type [display + 4 keys (P0–P3)]
IC-F1000T/F2000T: 10-key type [display + 4 keys + 10-key pad]

The illustration is for the 10-key type.

Your transceiver may have a **FUNCTION DISPLAY, [P0]–[P3]**, or **10-KEY PAD**, depending on the transceiver version.

❶ ROTARY SELECTOR
➥ Rotate to select the preset memory channels.

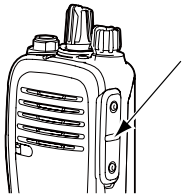
❷ VOLUME CONTROL [VOL]
➥ Rotate to turn the power ON or OFF and to adjust the audio level.

❸ DEALER-ASSIGNABLE KEY [Emer]
➥ A desired function can be programmed by your dealer.

❹ SPEAKER-MICROPHONE JACK

➥ Connect optional equipment.

NOTE: After turning OFF the transceiver, connect or disconnect the optional equipment.



Jack cover

NOTE: Attach the jack cover when optional equipment is not used.

❺ FUNCTION DISPLAY

➥ Displays a variety of information such as the operating channel number, channel name, User Set mode contents, and so on. See page 3 for details.

❻ DEALER-ASSIGNABLE KEYS [P0]–[P3]

➥ Desired functions can be independently programmed by your dealer.

❼ DEALER-ASSIGNABLE KEYS [UP] or [Upper]*, [DOWN] or [Lower]*

➥ Desired functions can be independently programmed by your dealer.

* Names for the non-display type transceivers

❽ PTT SWITCH [PTT]

➥ Hold down to transmit, release to receive.

❾ LED INDICATOR

➥ Lights red while transmitting.

➥ Lights green while receiving a signal, or when the squelch is open.

➥ Lights or blinks orange when the matched 2-Tone or 5-Tone is received, depending on the presetting.

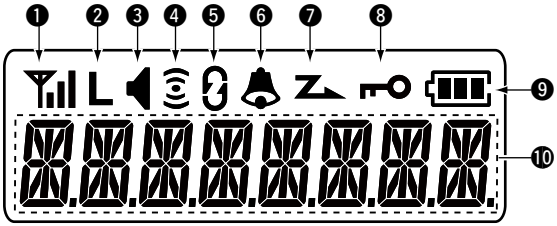
➥ You should charge the battery when the indicator slowly blinks.

➥ You must charge the battery when the indicator blinks fast.

❿ ANTENNA CONNECTOR

➥ Connects the supplied antenna.

■ Function display



❶ SIGNAL STRENGTH INDICATOR
➥ Displays the relative receive signal strength level.

❷ LOW POWER ICON
➥ Appears when low output power is selected.
• When the battery charge decreases to a set level, low power is automatically selected.

❸ AUDIBLE ICON
➥ Appears when the channel is in the 'audible' (unmuted) mode.
➥ Appears when a matched 2-Tone or 5-Tone is received.

❹ COMPANDER ICON
➥ Appears when the Compander function is ON.

❺ SCRAMBLER ICON
➥ Appears when the Voice Scrambler function is ON.

❻ BELL ICON
➥ Appears or blinks when a matched 2-Tone or 5-Tone is received, depending on the presetting.

❼ SCAN ICON
➥ Appears or blinks while scanning.

❽ KEY LOCK ICON
➥ Appears when the Key Lock function is ON.

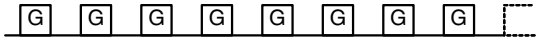
❾ BATTERY INDICATOR
➥ Displays the remaining battery charge.
➥ Blinks when the battery charge decreases to a set level.

❿ ALPHANUMERIC READOUT
➥ Displays messages such as channel text.

■ LED indicator

The LED indicator indicates the status of various parameters of the transceiver as follows:
(Reference: R=Red, G=Green, O=Orange)

• Cloning (reading or writing data)



• Cloning Error (if cloning fails)

• Inh, Blank CH, Unlocked (when you cannot use the channel)

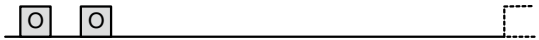
• TX Low Battery 2 (while transmitting)

• TX Low Battery 1 (while transmitting)

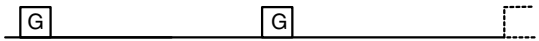
• Transmitting

• Call LED=ON (when receiving a matched 2-Tone or 5-Tone)

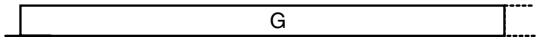
• Call LED=Blink (when receiving a matched 2-Tone or 5-Tone)



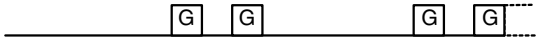
• Scanning



• Receiving

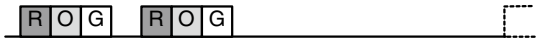


• Low Battery 2 (You must charge the battery.)

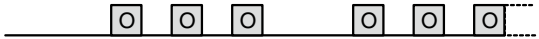


• Low Battery 1 (You should charge the battery.)

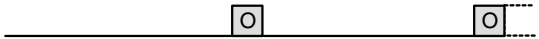
• When turning ON the power



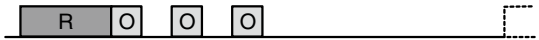
• Calling



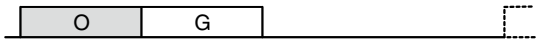
• Audible



• Lockout, TX Inh, TOT (when transmit is inhibited)

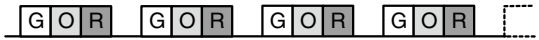


• Successful



• Failed, Error

• Emergency, Siren



■ Programmable function keys

For the Non-display type transceivers, the following functions can be assigned to **[Emer], [Upper], and [Lower].**

For the Simple type transceivers and the 10-key type transceivers, the following functions can be assigned to **[P0]**, **[P1]**, **[P2]**, **[P3], [Emer], [Up], and [Down].**

Consult your Icom dealer or system operator for details concerning your transceiver's programming.

CH UP/DOWN

➥ As described in the following topics, after pushing a programmed key, push **[CH Up]** or **[CH Down]** to select an option, setting, and so on.

ZONE

// only for the Simple type and 10-key type transceivers //

➥ Push this key, then select the desired zone by pushing **[CH Up]** or **[CH Down]**.

What is a "zone"?— Certain channels are grouped together and assigned to a zone, according to their intended use. For example, 'Staff A' and 'Staff B' are assigned to a "Business" zone, and 'John' and 'Cindy' are assigned to a "Private" zone.

SCAN START/STOP

< for the Non-display type transceivers >

➥ Push to start and cancel a scan.
- When a scan is started with the Power ON Scan or Automatic scan function, push this key to cancel it. The cancelled scan resumes after a set time period.

< for the Simple type and 10-key type transceivers >

➥ Push to start and cancel a scan.

➥ To select the scan group, hold down this key to display scan groups, then push **[CH Up]** or **[CH Down]** to select a desired group.

SCAN ADD/DEL (TAG)

// only for the Simple type and 10-key type transceivers //

➥ Push to add the operating channel to, or delete it from, the scan group.
1. Hold down to display the scan group, then push **[CH Up]** or **[CH Down]** to select the desired one.
2. Push to add the channel to, or delete it from, the selected scan group.
3. Hold down to exit the scan list selection mode.

➥ While a scan is paused on a non-priority channel, push this key to delete the selected channel from the scan group.

Depending on the presetting, the cleared channel may be automatically added to the scan group again after the scan is cancelled.

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)]** to assign the operating channel to 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 programmed.

MONI // only for the LMR mode //

➥ Hold down to cancel the CTCSS (DTCS) or 2-Tone mute. The transceiver enters “Audible” mode.

➥ Push to turn OFF the function.

MONI (Audi) // only for the PMR mode //

➥ Hold down to cancel the CTCSS (DTCS) or 5-Tone mute. The transceiver enters “Audible” mode.

➥ Push or hold down to activate one or two functions if programmed.

LOCK

< for the Non-display type transceivers >

➥ Hold down this key to lock all programmable keys except the followings:
[Moni], **[Lock]**, **[Emer]**, **[Surveillance]**, **[Siren]**, **[Lone Worker]**, and **[Shift]**.

< for the Simple type and 10-key type transceivers >

➥ Hold down until “LOCK ON” is displayed to lock all programmable keys except the followings:
[Moni], **[Lock]**, **[Emer]**, **[Surveillance]**, **[Siren]**, **[Lone Worker]**, and **[Shift]**.

➥ To turn OFF the Key Lock function, hold down until “LOCK OFF” is displayed.

LONE WORKER

< for the Non-display type transceivers >

➥ Hold down to turn ON the Lone Worker Function.

➥ Push to turn OFF the Function.

< for the Simple type and 10-key type transceivers >

➥ Push to turn the Lone Worker Function ON or OFF.

- If no operation occurs for a set time period, the transceiver automatically enters the emergency mode.

HIGH/LOW

➥ Push to select the transmit output power temporarily or permanently, depending on the presetting.

C.Tone CH ENT
// only for the Simple type and 10-key type transceivers //
➥ Push to enter the continuous tone selection mode. Select the tone frequency or DTCS code using **[CH Up]** or **[CH Down]**.

TALK AROUND
➥ Push to turn the Talk Around function ON or OFF.
• The Talk Around function equalizes the transmit frequency to the receive frequency for transceiver-to-transceiver communication.

WIDE/NARROW
➥ Push to toggle the channel passband width between wide and narrow.

DTMF AUTODIAL
< for the Non-display type transceivers >
➥ Push to transmit the preprogrammed DTMF code.
< for the Simple type and 10-key type transceivers >
➥ Push to enter the DTMF number selection mode. Then select a DTMF number by pushing **[CH Up]** or **[CH Down]**.
➥ After selecting the DTMF channel, push again to transmit the selected DTMF code.

RE-DIAL
➥ Push to transmit the last-transmitted DTMF code.

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

CALL
➥ Push to transmit a 2-Tone or 5-Tone in the operating channel.

CALL A (CODE 1)/CODE B (CODE 2)
// only for the LMR model //
➥ Push to transmit a 2-Tone, that is programmed in channel 1 (Code A) or channel 2 (Code B).

CALL A (CODE 30)/CODE B (CODE29)
// only for the PMR model //
➥ Push to transmit a 5-Tone as a station code, that is programmed in channel 30 (Code A) or channel 29 (Code B).

EMERGENCY
➥ Hold down during the Emer SW ON timer period to turn ON the Emergency function.
• After the Start or Repeat timer period ends, an Emergency call is automatically transmitted once, or repeatedly, depending on the presetting.
➥ Hold down during the Emer SW OFF timer period to cancel the Emergency function, before transmitting an Emergency call.

SURVEILLANCE

< for the Non-display type transceivers >

➥ Hold down to turn ON the Surveillance function.

➥ Push to turn OFF the function.

< for the Simple type and 10-key type transceivers >

➥ Push to turn the Surveillance function ON or OFF.

- When this function is ON and a signal is received, a beep does not sound and the LED does not light, even if you push any key.

SIREN

➥ Hold down to emit a siren sound.

- This function may use for situations other than an emergency alert, such as a security alarm.

➥ Turning OFF the transceiver power to stop the siren sound.

TX CODE ENTER

// only for the PMR model (for the Simple type and 10-key type transceivers) //

➥ Push to enter the TX code edit mode (5-Tone).

1. Push **[CH Up]** or **[CH Down]** to select the desired digit. You can also enter the digit using the 10-key pad, if it is on your transceiver.
2. Push **[TX Code Enter]** to set. The digit to the right will automatically blink.
3. Repeat step 1 and step 2 to input all editable digits.
4. After editing, push **[TX Code Enter]** to store the setting and return to the standby mode.

TX CODE CH SELECT

// only for the Simple type and 10-key type transceivers //

➥ Push **[TX Code CH Select]** to enter the TX code channel selection mode.

1. Push **[CH Up]** or **[CH Down]** to select a desired TX code channel.
2. After selecting, push **[TX Code CH Select]** to store the setting and return to the standby mode.

// only for the PMR model //

➥ During TX code selection mode, hold down to enter the TX code edit mode (5-Tone).

1. Push **[CH Up]** or **[CH Down]** to select the desired digit. You can also enter the digit using the 10-key pad if it is on your transceiver.
2. Push **[TX Code Enter]** to set. The digit to the right will automatically blink.
3. Repeat step 1 and step 2 to input all editable digits.
4. After editing, push **[TX Code Enter]** to store the settings and return to the standby mode.

TX CODE CH UP/DN

// only for the LMR model (for the Simple type and 10-key type transceivers) //

➥ Push to select a preprogrammed TX code channel.

TX CODE CH UP/DOWN
// only for the PMR model (for the Simple type and 10-key type transceivers) //
➥ Push to select a preprogrammed TX code channel.
➥ Push to select a desired digit in the TX code edit mode.

ID-MR SELECT
// only for the PMR model (for the Simple type and 10-key type transceivers) //
➥ Push to recall the received ID code.
• The transceiver can memorize up to 5 codes.
➥ Select a desired code by pushing **[CH Up]** or **[CH Down]**.
➥ Hold down to clear the selected ID code.

SCRAMBLER
< for the Non-display type transceivers >
➥ Hold down to turn ON the Voice Scrambler function.
➥ Push to turn OFF the function.
< for the Simple type and 10-key type transceivers >
➥ Push to turn the Voice Scrambler function ON or OFF.

COMPANDER
< for the Non-display type transceivers >
➥ Hold down to turn ON the Compander function.
➥ Push to turn OFF the function.
< for the Simple type and 10-key type transceivers >
➥ Push to turn the Compander function ON or OFF.
• The Compander function reduces noise components from the transmitted audio to provide clear communication.

USER SET MODE
// only for the Simple type and 10-key type transceivers //
➥ Hold down to enter the User Set mode.
• While in the User Set mode, push this key to select an item*, and change the value or setting by pushing **[CH Up]** or **[CH Down]**.
* Selectable items may differ, depending on the presetting.
➥ Hold down this key again to exit the User Set mode.

ANNOUNCE
➥ Push to turn the Channel Announce function ON or OFF.

NOTE:
When the Beep function (p.16) is OFF, the operating channel is not announced, regardless of this setting.

SHIFT
// only for the Simple type and 10-key type transceivers //
1. Push to turn ON the Shift mode key functions.
“SHIFT ON” is briefly displayed.
2. Push another key to activate its secondary function.
3. Push **[Shift]** again to turn OFF the function.
The transceiver returns to the Normal mode, then “SHIFT OFF” is briefly displayed.
• The Shift mode enables a programmable function key to have two functions at the same time.

■ Selecting a channel

There are several types of channel selections. Methods may differ, depending on the presetting. Consult your dealer for details.

NON-ZONE TYPE:
To select the desired operating channel:
➥ Rotate **[ROTARY SELECTOR]**.
➥ Push **[CH Up]** or **[CH Down]**.
➥ Push one of **[MR-CH 1]** to **[MR-CH 4]**.
➥ Push **[Prio A]**, **[Prio B]**, **[Prio A (Rewrite)]** or **[Prio B (Rewrite)]**.

ZONE TYPE:
To select the desired operating channel:
➥ Push **[Zone]**, then push **[CH Up]** or **[CH Down]**.

AUTOMATIC SCAN TYPE:
Channel setting is not necessary for this scan type. When turning ON the power, the transceiver automatically starts scanning. Scanning stops when a signal is received.

■ Receiving and transmitting

CAUTION:
Attach an antenna before transmitting.
Transmitting without an antenna may damage the transceiver.

Receiving:
① Rotate **[VOL]** to turn ON the power.
② Rotate **[ROTARY SELECTOR]**, or push one of the memory channel keys, **[MR-CH1]** to **[MR-CH4]**, to select a channel.
③ When receiving a call, adjust the audio output level to a comfortable listening level.

Transmitting:
Wait until the channel is clear to avoid interference.
① While holding down **[PTT]**, speak at a normal voice level.
② Release **[PTT]** to receive.

IMPORTANT: To maximize the readability of your signal:
1. After pushing **[PTT]**, pause briefly before you start speaking.
2. Hold the microphone 5 to 10 cm (2 to 4 inches) from your mouth, then speak at a normal voice level.

◇ Transmitting notes

• Transmit inhibit function

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

- The channel is busy.
  However, depending on the presettings, you can transmit when the call includes an unmatched (or matched) CTCSS (DTCS) tone.
- The selected channel is a 'receive only' channel.

• Time-out timer

If continuous transmission exceeds the preprogrammed time-out timer limit, transmission is cut off.

• Penalty timer

The time-out timer cuts off transmission, further transmission is inhibited for the preprogrammed penalty timer period.

◇ Receiving a Stun, Kill and Revive call

The dispatcher can send a 2-Tone or 5-Tone that will stun, kill or revive your transceiver.
When the Stun call is received, beeps sound*, and you cannot receive or transmit. Receiving a Revive call, or entering a password*, is necessary to operate the transceiver again.

When the Kill call is received, beeps sound*, and the transceiver becomes unusable. Cloning the transceiver is necessary to operate the transceiver again, in this case.

* Depending on the presetting. Ask your dealer for details.

■ Emergency Call

When pushing **[Emergency]** for the set time period*, the transceiver transmits an emergency signal once, or repeatedly, on the specified emergency channel.

The transceiver automatically transmits a repeat emergency signal until it receives an acknowledgement signal, or you turn OFF the transceiver power.
When no emergency channel is specified, it transmits the signal on the previously selected channel.

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 LED indicator lighting.

IMPORTANT: It is recommended to set an emergency channel individually to provide the certain emergency call operation.

NOTE:
Depending on the presetting, the following functions are automatically activated. Ask your dealer for details.

• Auto TX function
After an emergency call transmission, the transceiver transmits the audio from the microphone for a set time period.*

• Auto RX function
After the emergency call transmission, the transceiver stands by in the audible mode for the set time period.*

* Depending on the presetting. Ask your dealer for details.

■ Lone Worker Emergency Call

When the Lone Worker function is ON, and if no operation occurs for a set time period*, the transceiver automatically enters the emergency mode. Then the countdown for the emergency call transmission starts.
After a set time period* has passed, an emergency call is automatically transmitted once, or repeatedly*.
If the user operates the transceiver before the call is transmitted, the transceiver exits the emergency mode, and the emergency call is cancelled.

To turn ON the function, see page 6.

■ Man Down Emergency Call

This function may or may not be available, depending on the presetting.
When the transceiver has been left in a horizontal position for a set time period*, the transceiver enters the emergency mode, and then a countdown starts.
After a set time period* has passed, an emergency call is automatically transmitted once, or repeatedly*.
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.

■ Motion Detection Emergency Call

This function may or may not be available, depending on the presetting.
If the acceleration sensor detects the user continuously moves for the set timer period and at the set speed, the transceiver enters the emergency mode, and then the countdown starts.
After a set time period* has passed, an emergency call is automatically transmitted once, or repeatedly*.
Once the countdown starts, you cannot cancel the emergency call.

* Depending on the presetting. Ask your dealer for details.

■ User set mode

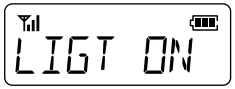
The User Set mode enables you to change various settings. You can “customize” the transceiver operation to suit your preferences and operating style.

The display illustration is for the Simple type and 10-key type transceivers.

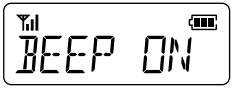
< for the Non-display type transceivers >
For settings of the microphone gain, the squelch level, the Beep level, the Beep function, and the Ringer level, see page 16 to 19.

< for the Simple type and 10-key type transceivers >
When **[User Set Mode]** is assigned to your transceiver, see page 9 for entering the User Set mode.

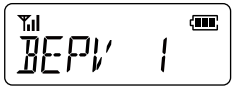
Backlight
- ON: Always lit
- AUT: Lit for 5 seconds when pushing any key except **[PTT]**.
- AU2: Lit for 5 seconds every time the display changes the contents.
- OFF: Does not light



Beep ON/OFF
- ON: Beeps sound
- OFF: No beeps sound



Beep Level
- 1 (minimum) – 5 (maximum)
- 1✻ (minimum) – 5✻ (maximum)
  Linked with the audio level.
  The beep audio level is adjustable by rotating **[VOL]**.



Ringer Level
- 1 (minimum) – 5 (maximum)
- 1✻ (minimum) – 5✻ (maximum)
  Linked with the audio level.
  The ringer audio level is adjustable by rotating **[VOL]**.

SQL (Squelch) Level
- 0: SQL Open
- 2: SQL Threshold
- 9: SQL Tight

SQL 9

AF Min Level
(Minimum audio output level)
- 0 (minimum) – 255 (maximum)

AFMIN 0

Mic Gain
Higher values make the microphone more sensitive to the user's voice.
- 1 (minimum) – 4 (maximum)

MIC 1

Battery Voltage Display
- ON: Battery voltage is displayed when turning ON the transceiver.
- OFF: Battery voltage is not displayed when turning ON the transceiver.

BATT ON

Signal Moni
- ON: Signaling beeps sound.
- OFF: No signaling beeps sound.

SMON ON

Lone Worker
- ON: If no operation occurs for a set time period, the transceiver automatically enters the “Emergency” mode.
- OFF: Even if no operation occurs for a set time period, the transceiver does not automatically enter the “Emergency” mode.

LONE ON

Stationary
Higher values make the acceleration sensor more sensitive to the user's motion.
- 1 (minimum) – 3 (maximum)

STNARY 1

Motion Detection
Higher values make the acceleration sensor more sensitive to the user's motion.
- 1 (minimum) – 3 (maximum)

MOTION 1

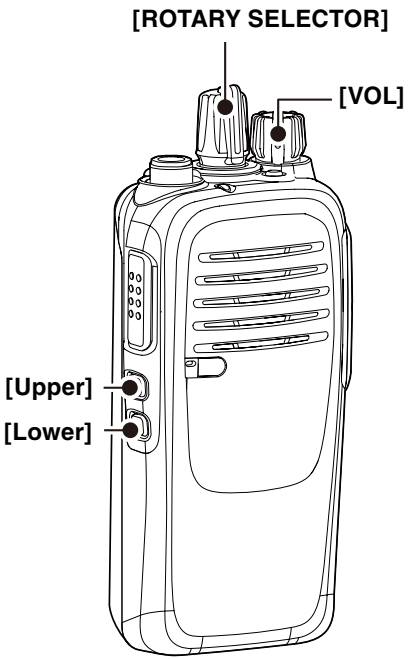
■ Setting the Beep function

These instructions are for the non-display type transceivers. The Beep function can be turned ON or OFF. When it is OFF, the channel announcement is also turned OFF.

NOTE:
You should turn ON the Beep function when you set the Beep level, the Ringer level, the microphone gain, and the squelch level.

① Rotate **[VOL]** to turn the transceiver power OFF.
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.
- The transceiver stores the setting every time you change it.
- If desired, push **[Upper]** to adjust the Beep level. See page 17 for details.

⑤ Rotate **[VOL]** to turn OFF the power to exit the Beep level adjustment mode.



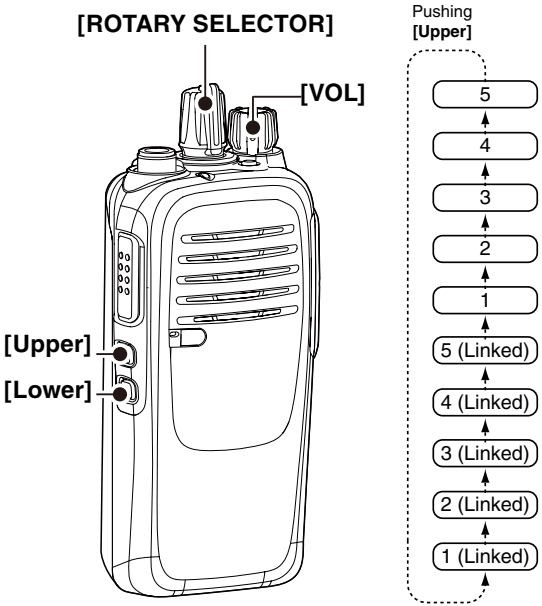
■ Setting the Beep level

These instructions are for the non-display type transceivers. The Beep level is adjustable between 1 and 5, or 1 (linked) and 5 (linked). When a Linked option is selected, the beep audio level is adjustable by rotating **[VOL]**.

① Rotate **[VOL]** to turn OFF the transceiver.
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.
- Repeatedly pushing **[Upper]** first selects 1 (lowest) to 5 (highest), and then selects the lowest linked level, 1 (Linked) to the highest, 5 (Linked). Repeatedly pushing **[Upper]** repeats the cycle. See the illustration on the right.
- The adjustable range is 1 to 5 or 1 (Linked) to 5 (Linked).
- 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 selectable, depending on the presetting, Ask your dealer for details.



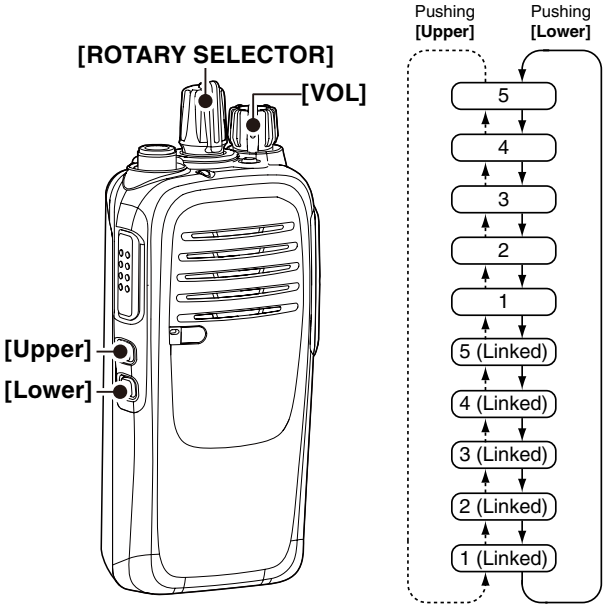
■ Setting the Ringer level

These instructions are for the non-display type transceivers. The Ringer level can be adjusted between 1 and 5, or 1 (Linked) and 5 (Linked). When a Linked option is selected, the ringer audio level is adjustable 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.
- Repeatedly pushing **[Upper]** first selects 1 (lowest) to 5 (highest), and then selects the lowest linked level, 1 (Linked) to the highest, 5 (Linked). Repeatedly pushing **[Upper]** or **[Lower]** repeats the cycle. See the illustration on the right.
- The adjustable range is 1 to 5 or 1 (Linked) to 5 (Linked).
- A beep sounds after pushing **[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]** 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 selectable, depending on the presetting. Ask your dealer for details.



■ Setting the microphone gain

These instructions are for the non-display type transceivers. Adjust the microphone gain.

① Rotate **[VOL]** to turn the transceiver power OFF.
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.

⑤ Rotate **[VOL]** to turn OFF the power to exit the microphone gain adjustment mode.

NOTE:
This operation may not be selectable, depending on the presetting. Ask your dealer for details.

■ Setting the squelch level

These instructions are for the non-display type transceivers. The squelch circuit mutes the received audio signal, depending on the signal strength.

① Rotate **[VOL]** to turn the transceiver power OFF.
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:
This operation may not be selectable, depending on the presetting. Ask your dealer for details.

■ MDC 1200 system operation

The MDC 1200 signaling system enhances your transceiver's capabilities. You can receive or transmit PTT ID and Emergency calls. You can also receive Radio Check, Stun, and Revive calls.

An additional feature of the MDC 1200 system included in Icom transceivers is called aliasing. Each transceiver on the system has a unique ID number. Aliasing is a substitute for this ID number and you can give an alphanumeric name for each station ID. In transmit, you can use this alias to select a transceiver to call. In receive, the alias of the calling station is displayed instead of the ID.

Please confirm that your dealer has set one of the programmable keys for MDC 1200 system operation. See page 5 for more information about the programmable function keys.

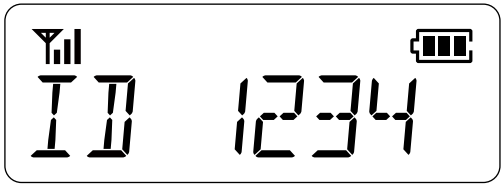
The display illustration is for the Simple type and 10-key type transceivers.

■ Receiving a call

◇ Receiving a PTT ID

① When a PTT ID is received:
- Beeps sound.
- The calling station ID (or alias) is displayed.

< Calling station ID >

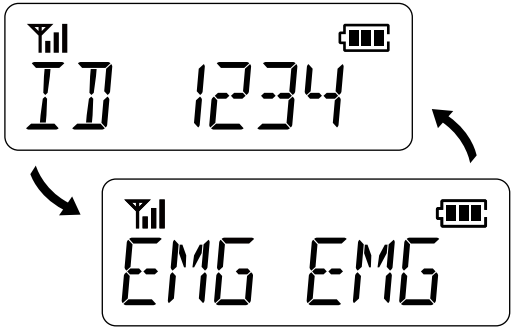


< Alias >

② Hold down **[PTT]** and speak into the microphone.
③ Release **[PTT]** to receive a response.

◇ Receiving an Emergency Call

① When an emergency call is received:
- Beeps sound.
- The calling station ID (or alias) and "**EMG EMG**" are alternately displayed.
- The operation of the backlight depends on the Backlight setting in the User set mode. When "LIGHT AUT" or "LIGHT AU2" is selected, the backlight turns ON for a set time period*.



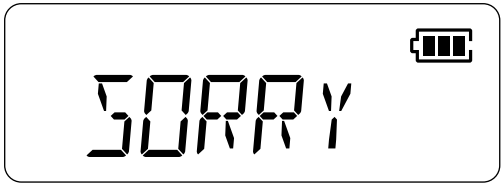
② When the Send Ack function is turned ON, the transceiver automatically transmits an acknowledgement to the calling station.

③ Turn power OFF or change the channel to stop the beep and the display indication.

◇ Receiving a Stun or Revive Call

If a Stun call is received that matches your station ID, the transceiver will display a stun text and you can not receive or transmit. If a Revive call that matches your station ID is received, or you enter the password*, the transceiver will be revived.

- When the transceiver is stunned.
  (The Stun text depends on the presetting.)



When you want to revive the stunned transceiver by entering a password, read the following instructions.

① Turn OFF the stunned transceiver once and then turn it ON again.

② The illustration above is still displayed. Enter the required password.

③ When you enter a correct password, the transceiver will be revived and the screen will return to normal.

* Depending on the presetting. Ask your dealer for details.

■ Transmitting a call

◇ Transmitting a PTT ID

You can notify another person of your station ID or alias.

① Push **[PTT]** to make a call.
② Beeps sound, depending on the presetting.
③ Your alias or station ID will be transmitted when you push **[PTT]** (at the beginning of transmission) or release it (at the end of transmission), depending on the presetting.

◇ Transmitting an Emergency Call

When holding down **[Emergency]** for a set time period, the emergency signal is transmitted once or repeatedly* on the emergency channel. 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.

If you want to cancel the emergency call, hold down the key again before transmitting the call.
You can transmit an emergency call without a beep emission, and the display indication, depending on the presetting. (Silent operation)
The transceiver can also be programmed to keep the microphone open during an emergency call, allowing monitoring the situation. Ask your dealer for details.

IMPORTANT: It is recommended to set an emergency channel individually to provide the certain emergency call operation.

Count on us!

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