o ICOM

INSTRUCTION MANUAL

VHF MOBILE TRANSCEIVER IC-F5061/D UHF MOBILE TRANSCEIVER IC-F6061/D IC-F6063



Icom Inc.

IMPORTANT

READ ALL INSTRUCTIONS carefully and completely before using the transceiver.

SAVE THIS INSTRUCTION MANUAL — This instruction manual contains important operating instructions for the IC-F5061/D, IC-F5063 VHF MOBILE TRANSCEIV-ERS, IC-F6061/D, IC-F6063 UHF MOBILE TRANSCEIV-ERS.

See the operating guide for details of BIIS, MDC, LTR[®] and Digital system operations. Ask your dealer for details.

EXPLICIT DEFENITIONS

WORD	DEFINITION	
	Personal injury, fire hazard or electric shock may occur.	
CAUTION	Equipment damage may occur.	
NOTE	If disregarded, inconvenience only. No risk of personal injury, fire or electric shock.	

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LTR is a registered trademark of the E.F.Johnson Company.

All other products or brands are registered trademarks or trademarks of their respective holders.

PRECAUTIONS

WARNING! NEVER connect the transceiver to an AC outlet. This may pose a fire hazard or result in an electric shock.

 \triangle **WARNING! NEVER** connect the transceiver to a power source of more than 16 V DC such as a 24 V battery. This connection will ruin the transceiver.

 \triangle **WARNING! NEVER** cut the DC power cable between the DC plug and fuse holder. If an incorrect connection is made after cutting, the transceiver might be damaged.

 \triangle **WARNING! NEVER** place the transceiver where normal operation of the vehicle may be hindered or where it could cause bodily injury.

CAUTION! NEVER allow children to touch the transceiver.

CAUTION! NEVER expose the transceiver to rain, snow or any liquids.

USE the specified microphone only. Other microphones have different pin assignments and may damage the transceiver.

DO NOT use or place the transceiver in areas with temperatures below -30° C (-22° F) or above $+60^{\circ}$ C ($+140^{\circ}$ F), or in areas subject to direct sunlight, such as the dashboard.

DO NOT operate the transceiver without running the vehicle's engine. The vehicle's battery will quickly run out when the transceiver transmits while the vehicle's engine is OFF.

DO NOT place the transceiver in excessively dusty environments.

DO NOT place the transceiver against walls. Otherwise heat dissipation will be obstructed.

DO NOT use chemical agents such as benzine or alcohol when cleaning, as they damage the transceiver surfaces.

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

For U.S.A. only

CAUTION! Changes or modifications to this transceiver, not expressly approved by Icom Inc., could void your authority to operate this transceiver under FCC regulations.

Icom optional equipment is designed for optimal performance when used with this transceiver. We are not responsible for the transceiver being damaged or any accident caused when using non-Icom optional equipment.

VOICE CODING TECHNOLOGY

The AMBE+2[™] voice coding Technology embodied in this product is protected by intellectual property rights including patent rights, copyrights and trade secrets of Digital Voice Systems, Inc. This voice coding Technology is licensed solely for use within this Communications Equipment. The user of this Technology is explicitly prohibited from attempting to extract, remove, decompile, reverse engineer, or disassemble the Object Code, or in any other way convert the Object Code into a human-readable form. U.S. Patent Nos.

#5,870,405, #5,826,222, #5,754,974, #5,701,390, #5,715,365, #5,649,050, #5,630,011, #5,581,656, #5,517,511, #5,491,772, #5,247,579, #5,226,084 and #5,195,166.

FCC INFORMATION

• FOR CLASS B UNINTENTIONAL RADIATORS:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

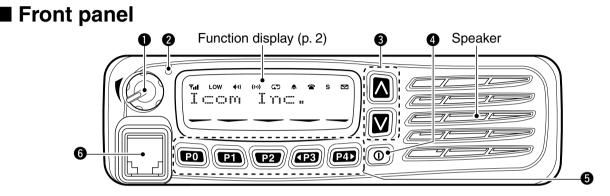
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● AF VOLUME CONTROL KNOB [VOL]

Rotate the knob to adjust the desired audio output level.

• Minimum audio level is pre-programmed.

2 LED INDICATOR

- → Lights red while transmitting a signal.
- ➡ Lights green while receiving a signal.

UP/DOWN KEYS [CH Up]/[CH Down]

Push to select an operating channel, etc.

* The desired function can be assigned by your dealer. (p. 3)

POWER SWITCH [①]

Push and hold for 1 sec. to turn the power ON and OFF.

• Automatic scan start, Password prompt and Set mode access are available at power ON.

O DEALER-PROGRAMMABLE KEYS

Desired functions can be programmed independently by your dealer. (p. 3)

6 MICROPHONE CONNECTOR

Connect the supplied or optional microphone.

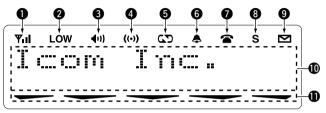
NEVER connect non-specified microphones. The pin assignments may be different and the transceiver may be damaged.

♦ MICROPHONE

The supplied microphone has a PTT switch and a hanger hook.

- The following functions are available when the microphone is on or off hook (depending on the setting):
- Automatic scan starts when it is on hook.
- Scan is cancelled when it is off hook.
- Scan is paused when it is off hook.
- Automatic priority channel selection is available when it is off hook.
- Sets to 'Inaudible' condition (mute condition) when it is on hook.
- Sets to 'Audible' condition (unmute condition) when it is off hook.

Function display



1 SIGNAL STRENGTH INDICATOR

Indicates relative signal strength level as below.

Ψ Ψι ΨιΙ ΨιΙ

 $\mathsf{Weak} \gets \mathsf{Receive} \; \mathsf{Signal} \; \mathsf{level} \Rightarrow \mathsf{Strong}$

2 LOW POWER INDICATOR

Appears when low output power is selected.

③ AUDIBLE INDICATOR

- ➡ Appears when the channel is in the 'audible' (unmute) condition.
- Appears when the specified 2/5-tone/BIIS*1/MDC*2 code is received.

4 COMPANDER INDICATOR

Appears when the compander function is activated.

G SCRAMBLER INDICATOR

Appears when the voice scrambler function is activated.

6 BELL INDICATOR

Appears/blinks when the specific 2/5-tone/BIIS*1/MDC*2 code is received, according to the pre-programming.

O CALL CODE MEMORY INDICATOR

- ➡ Appears when the call code memory is selected.
- ➡ Appears when a phone call is received.*³

③ SCROLL INDICATOR

Appears when the SDM, includes more than 12 characters, is selected during the received message selection $mode^{*1}$.

O SDM INDICATOR

Appears when an SDM is received, or a transmit SDM is selected. $^{\star 1}$

ALPHANUMERIC DISPLAY

- Displays an operating channel number, channel name, Set mode contents, DTMF code, etc.
- The indication mode can be selected from 1 line or 2 lines. Ask your dealer for details.
 - In this instruction manual, the LCD illustration is described using the 2 lines indication mode.

ACTIVATED KEY INDICATOR

Appears above the key assigned as [Scan A Start/Stop], [Scan B Start/Stop], [Scan Add/Del(Tag)], [Lock], [Talk Around], [Surveillance] and [BIIS button]*¹ keys during that key is activated.

*1 BIIS operation only
*2 MDC operation only
*3 LTR[®] operation only

See the operating guide for details of BIIS, MDC, LTR[®] and Digital system operations. Ask your dealer for details.

Programmable function keys

The following functions can be assigned to **[UP]**, **[DOWN]**, **[P0]**, **[P1]**, **[P2]**, **[P3]** and **[P4]** programmable function keys. Consult your lcom dealer or system operator for details concerning your transceivers programming.

If the programmable function names are bracketed in the following explanations, the specific key is used to activate the function depends on the programming.

CH UP AND DOWN KEYS

- ➡ Push to select an operating channel.
- Push to select a transmit code channel after pushing [TX Code CH Select].
- Push to select a DTMF channel after pushing [DTMF Autodial].
- Push to select a scan group after pushing and holding [Scan A Start/Stop]/[Scan B Start/Stop] for 1 sec.

ZONE KEY

Push this key, then select the desired zone using [CH Up]/ [CH Down].

What is "zone"?— Selected channels are assigned to a zone according to how they are to be used in a group. For example, 'Staff A' and 'Staff B' are assigned into a "Business" zone, and 'John' and 'Cindy' are assigned into a "Private" zone.

ZONE UP AND DOWN KEYS

Push to select an operating zone.

SCAN A KEY

- ➡ Push to start and cancel scanning operation.
 - When Power ON Scan function is activated, push to pause the scanning operation. And the paused scan resumes after the specified time period has passed.
- Push and hold this key for 1 sec. to indicate the scan list, then push [CH Up] or [CH Down] to select the desired list.

SCAN B KEY

- ➡ Push to start and cancel scanning operation.
- The scan restarts after the specified time period has passed when the scan (started with this key) is cancelled by except for this key operation.
- Push and hold this key for 1 sec. to indicate the scan list, then push [CH Up] or [CH Down] to select the desired list.

SCAN ADD/DEL (TAG) KEY

- Push to add or delete the selected channel to/from the scan group.
 - 1. Push to indicate the scan group, then push [CH Up] or [CH Down] to select the desired group.
 - 2. Push to add or delete the channel to/from the selected scan group.
 - 3. Push and hold for 1 sec. to exit the scan group selection mode.
- Push this key while scan is paused (a signal is detected) on a channel (except for priority channel,) the channel is cleared from the scan group.

Depending on the setting, the cleared channel is added to the scan group again after the scan is cancelled.

PRIO A/B KEYS

- ➡ Push to select Priority A or Priority B channel.
- Push and hold [Prio A (Rewrite)] or [Prio B (Rewrite)] for 1 sec. to rewrite the operating channel as the Priority A or Priority B channel.

MR-CH 1/2/3/4 KEYS

Push to select the memory channel 1 to 4 directly.

MONI (AUDI) KEY

- Push to mute and release the CTCSS (DTCS) or 2-tone squelch mute. Open any squelch/deactivate any mute while pushing and holding this key. (LMR operation only)
- Activates one of (or two of) the following functions on each channel independently: (PMR operation only)
 - Push and hold to un-mute the channel (audio is emitted; 'Audible' condition).
 - Push to mute the channel (sets to 'Inaudible' only).
 - Push to un-mute the channel (sets to 'Audible' only).
 - Push after the communication is finished to send a 'reset code'. (5-tone/BIIS operation only)
 - **NOTE:** The un-mute condition ('Audible' condition) may automatically return to the mute condition ('Inaudible' condition) after a specified period depending on programming.

PUBLIC ADDRESS KEY

Push to activate the Public Address (PA) function for voice amplification. When the PA function is activated, the audio output can be controlled from the transceiver separately with [CH Up]/[CH Down].

- This function is available when the external unit, such as a audio amplifier, speaker, etc. is additionally connected.
- Push this key, then speak into the microphone while pushing and holding [PTT].

RX SPEAKER KEY

Push to turn the RX speaker function ON or OFF.

When the RX speaker function is turned ON, the received audio can be heard via the external speaker.

- This function is available when the external speaker is additionally connected.
- This function is useful when you are out of the vehicle.
- The audio output level is linked to the transceiver's volume control.

LIGHT KEY

Push to turn the transceiver's backlight ON for about 5 sec. when the backlight function is turned OFF in user set mode.

LOCK KEY

Push and hold to electronically lock all programmable keys except the following:

[Moni(Audi)], [Light], [Lock], [Call] (incl. Call A and Call B), [Emergency], [Surveillance], [Lone Worker] and [OPT 1/2/3].

LONE WORKER KEY

Push to turn the Lone Worker function ON or OFF.

 If the Lone Worker function is activated, the Emergency function is automatically turned ON after the specified time period has passed with no operation is performed.

HIGH/LOW KEY

Push to select the transmit output power temporarily or permanently, depending on the pre-setting.

• Ask your dealer for the output power level for each selection.

TONE/RAN CH SELECT KEY

- While in analog mode operation, push to enter the continuous tone channel selection mode. Then select the desired tone frequency/code setting with [CH Up] or [CH Down]. After the selection, push this key again to set.
- While in digital mode operation, push to enter the RAN channel selection mode. Then select the desired RAN setting with [CH Up] or [CH Down]. After the selection, push this key again to set.
- While in mixed (digital and analog) mode operation, push to enter the continuous tone channel selection mode. Then select the desired tone frequency/code setting with [CH Up] or [CH Down]. After the selection, push this key to set. After that, the RAN channel selection screen appears. Select the desired RAN setting with [CH Up] or [CH Down]. After the selection, push this key again to set.

C.TONE CH ENT KEY

Push to select the continuous tone channel using [CH Up]/ [CH Down] to change the tone frequency/code setting after pushing this key. The selected channel remains set as the continuous tone channel until another channel is designated as such. (Analog or mixed mode operation only)

TALK AROUND KEY

Push to turn the talk around function ON and OFF.

• The talk around function equalizes the transmit frequency to the receive frequency for transceiver-to-transceiver communication.

WIDE/NARROW KEY

Push to toggle the IF bandwidth between wide and narrow. (Analog or mixed mode operation only)

• The wide passband width can be selected from 25.0 or 20.0 kHz using the CS-F5060 CLONING SOFTWARE. (PMR operation only) Ask your dealer for details.

DTMF AUTODIAL KEY

Push to enter the DTMF channel selection mode. Then select the desired DTMF channel using [CH Up]/[CH Down]. After selecting the DTMF channel, push again to transmit the selected DTMF code.

RE-DIAL KEY

Push to transmit the last-transmitted DTMF code.

• TX memories are cleared after turning the transceiver OFF.

CALL KEYS

Push to transmit a 2/5-tone/BIIS ID code.

- Call transmission is necessary before calling another station depending on your signalling system.
- [Call A] and/or [Call B] may be available when your system employs selective 'Individual/Group' calls. Ask your dealer which call is assigned to each key.

EMERGENCY KEY

Push and hold to transmit the emergency call.

- The emergency call transmits with beeps; the display does not change.
- The transceiver can transmit the emergency call silently or with the display changes depending on the pre-setting. Ask your dealer for details.
- If you want to cancel the emergency call, push and hold the key again before transmitting the call.
- The emergency call is transmitted one time only or repeatedly until receiving a control code, depending on the pre-setting.

SURVEILLANCE KEY

Push to turn the surveillance function ON or OFF.

When this function is turned ON, the beep is not emitted and the LCD backlight and the LED indicator do not light when a signal is received or a key is pushed.

TX CODE ENTER KEY (PMR operation only)

Push to enter the ID code edit mode directly, for both 5-tone and MSK. Then set the desired digit using [CH Up]/ [CH Down]. (p. 11)

TX CODE CHANNEL SELECT KEY

- Push to enter the ID code channel selection mode directly. Then set the desired channel using [CH Up]/ [CH Down]. (p. 10)
- During ID code channel selection mode, push for 1 sec. to enter the ID code edit mode for 5-tone and MSK. Then set the desired digit using [CH Up]/[CH Down]. (p. 11)

TX CODE CHANNEL UP/DOWN KEYS

Push to select a TX code channel directly.

SCRAMBLER/ENCRYPTION KEY

- ➡ While in analog mode operation, push to toggle the voice scrambler function ON and OFF.
- While in digital mode operation, push to toggle the encryption transmission function ON and OFF.

COMPANDER KEY

Push to toggle the compander function ON and OFF.

The compander function reduces noise components from the transmitted audio to provide clear communication.

ID-MR SELECT KEY (PMR operation only)

- ➡ Recalls detected ID codes.
 - Push this key, then select the ID code using [CH Up]/ [CH Down].
 - Up to 5 ID's are memorized.
- ➡ Push and hold for 1 sec. to erase the selected ID's.

HOOK SCAN KEY

When the on hook scan function is activated, push this key to disables on hook scan function (stop scanning) temporarily. Push this key again to re-start scanning.

USER SET MODE KEY

- ➡ Push and hold for 1 sec. to enter user set mode.
 - During user set mode, push this key to select an item, and change the value or condition using [CH Up]/[CH Down].
- ➡ Push and hold this key for 1 sec. again to exit user set mode.

User set mode is also available via the 'Power ON function.' Refer to p. 12 also.

10Key ENT KEY

Push to enable the connected microphone's 10-keypad operation.

• The desired memory channel, TX code channel (5-tone), ID list number (digital), TX status (MSK/Digital) or Short Data Message (digital) can be selected. (Depends on the pre-programming.)

OPT 1/2/3 KEYS

Push to control the output signal level from the optional unit connector.

BASIC OPERATION

■ Channel selection

Several types of channel selections are available. Methods may differ according to your system set up.

NON-ZONE TYPE:

To select the desired operating channel:

- Push [CH Up] or [CH Down].
- Push one of [MR-CH 1] to [MR-CH 4].

ZONE TYPE:

To select the desired zone:

- Push [Zone], then push [CH Up] or [CH Down].
- Push [Zone Up] or [Zone Down].

♦ Voting operation

The transceiver automatically starts scanning when a zone, specified for the voting operation, is selected.

The voting scan detects the S-meter of the repeater and automatically selects the strongest station.

AUTOMATIC SCAN TYPE:

Channel setting is not necessary for this type. When turning power ON, the transceiver automatically starts scanning. Scanning stops when receiving a call.

■ Turning power ON

- 1 Push and hold [0] for 1 sec. to turn the power ON.
- ② If the transceiver is programmed for a start up password, input the digit codes as directed by your dealer.
 - The keys as below can be used for password input: The transceiver detects numbers in the same block as identical. Therefore "01234" and "56789" are the same.

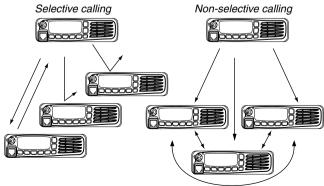
KEY	PO	P1	P2	(P3)	P4D
NUMBER	0	1	2	3	4
NONDER	5	6	7	8	9

③ When the "PASSWORD" indication does not clear after inputting 6 digits, the input code number may be incorrect. Turn the power off and start over in this case.

Call procedure

When your system employs tone signaling (excluding CTCSS and DTCS), a call procedure may be necessary prior to voice transmission. The tone signalling employed may be a selective calling system which allows you to call specific station(s) only and prevent unwanted stations from contacting you.

- ① Select the desired TX code channel, 2/5-tone code according to your System Operator's instructions.
 - This may not be necessary depending on programming.
 - Refer to pages. 10–11 for selection.
- ② Push [Call] (assigned to one of the dealer programmable keys).
- ③ After transmitting, the remainder of your communication can be carried out in the normal fashion.



Receiving and transmitting

Receiving:

- (1) Push and hold [(1)] for 1 sec. to turn the power ON.
- ② Push [CH Up] or [CH Down] to select the conventional system channel, in sequence.
- 3 When receiving a call, rotate [VOL] to adjust the audio output level to a comfortable listening level.

Transmitting:

Wait for the channel to become clear to avoid interference.

- 1 Take the microphone off hook.
 - 2/5-tone mute may be released. (The 'audible' condition is selected and BUSY indicator lights green.)
 - A priority channel may be selected automatically.
- 2 Wait for the channel to become clear.
 - The channel is busy when BUSY indicator lights green.
- ③ While pushing and holding [PTT], speak into the microphone at your normal voice level.
- 4 Release [PTT] to return to receive.

IMPORTANT: 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 into the microphone at a nor-
- mal voice level.

BASIC OPERATION 2

♦ Transmitting notes

•Transmit inhibit function

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

- The channel is in mute condition ('Inaudible' condition; "()" (Audible indicator) does not appear.)
- The channel is busy.
- Un-matched (or matched) CTCSS is received. (Depending on the pre-setting)
- The selected channel is a 'receive only' channel.

•Time-out timer

After continuous transmission for the pre-programmed time period, the time-out timer is activated, causing the transceiver to stop transmitting.

Penalty timer

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

♦ TX code channel selection

If the transceiver has [TX Code CH Select] assigned to it, the indication can be toggled between the operating channel number (or name) and TX code channel number (or name). When the TX code channel number (or name) is displayed, [CH Up] or [CH Down] selects the TX code channel.

USING [TX CODE CH SELECT] KEY:

- ① Push [TX Code CH Select]— a TX code channel number (or name) appears.
- ② Push [CH Up] or [CH Down] to select the desired TX code channel.
- ③ After selecting, push [TX Code CH Select] to set.
 Return to the stand-by mode.
- ④ Push [Call] to transmit the selected TX code.

USING [TX CODE CH UP]/[TX CODE CH DOWN] KEY:

If the transceiver has a [TX Code CH Up] or [TX Code CH Down] key assignment, the programmed TX code channel can be selected directly when pushed.

2 BASIC OPERATION

TX code number edit (PMR operation only)

If the transceiver has [TX Code CH Select] or [TX Code Enter] assigned to it, TX code contents can be edited within the allowable digits.

USING [TX CODE CH SELECT] KEY:

- 1 Push [TX Code CH Select] to enter the TX code channel selection mode.
 - Select the desired operating channel before entering the TX code channel selection mode if necessary.
- ② Push [TX Code CH Select] for 1 sec. to enter the TX code edit mode.
 - The digit to be edited blinks.
- ③ Push [TX Code CH Select] to select the desired digit to be edited.
- ④ Push [CH Up] or [CH Down] to select the desired digit.
- (5) Push [TX Code CH Select] to set. The digit to the right will blink automatically.
- 6 Repeat 4 and 5 to edit all allowable digits.
- ⑦ After editing, push [TX Code CH Select] to set.
 - Return to the stand-by mode.
- 8 Push [Call] to transmit.

USING [TX CODE ENTER] KEY:

- 1 Push [TX Code Enter] to enter the TX code edit mode.
 - The digit to be edited blinks.
- ② Push [TX Code Enter] to select the desired digit to be edited.
- ③ Push [CH Up] or [CH Down] to select the desired digit.
- ④ Push [TX Code Enter] to set. The digit to the right will blink automatically.
- (5) Repeat (3) and (4) to edit all allowable digits.
- 6 After editing, push [TX Code Enter] to set.
 - Return to the stand-by mode.
- Push [Call] to transmit.

♦ DTMF transmission

If the transceiver has [DTMF Autodial] assigned to it, the automatic DTMF transmission function is available. Up to 8 DTMF channels are available.

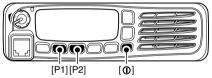
- ① Push [DTMF Autodial]— a DTMF channel appears.
- ② Push [CH Up] or [CH Down] to select the desired DTMF channel.
- 3 Push [DTMF Autodial] to transmit the DTMF code.

User set mode

User set mode is accessed with [User Set Mode] and allows you to set seldom-changed settings. In this case you can "customize" the transceiver operation to suit your preferences and operating style.

Entering the user set mode:

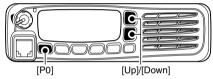
- 1 While pushing and holding [P1] and [P2], push [0] to turn the power ON.
 - Turn power OFF in advance.
 - You should hold [P1] and [P2] until "SET MODE" appears on the display.



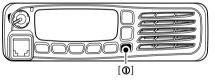
2 Push and hold [P0] for 1 sec. to enter user set mode.



- ③ Push [P0] several times to select the appropriate item. Then, push [Up] or [Down] to set the desired level/condition.
 - Available set mode functions are Backlight, LCD Contrast, Beep, Beep Level, Ringer Level, SQL Level, AF Min Level, Mic Gain, Battery Voltage, Horn, Signal Moni and Lone Worker.



④ Push and hold [①] for 1 sec. to turn power OFF, then ON again to exit set mode.



User set mode is also available using a programmable key. Please refer to p. 7 [User Set Mode] section for instructions regarding using the key assigned for user set mode.

NOTE: [Up], [Down] and [P0] activate while in the user set mode regardless of the assigned key functions.

Scrambler function

The voice scrambler function provides private communication between stations. All versions have a built-in frequency inversion type scrambler; however, an optional rolling or nonrolling type is available as well.

- ① Push [Scrambler] to turn the scrambler function ON.
 - "CD" (Scrambler indicator) appears.
- ② Push [Scrambler] again to turn the scrambler function OFF.
 - "CD" disappears.

Emergency transmission

When [Emergency] is pushed for the specified time period, an emergency signal is automatically transmitted. (p. 6)

When [Emergency] is pushed for the specified time period, the DTMF or 5-tone* emergency signal is transmitted once or repeatedly on the emergency channel. However, when no emergency channel is specified, the signal is transmitted on the previously selected channel.

If you want to cancel the emergency call, push and hold the key again before transmitting the call.

* Depending on the operating model type.

Stun function

When the specified ID, set as a kill ID, is received, the stun function is activated.

When the kill ID is received, the transceiver switches to the password required condition. Entering of the password (p. 8) is necessary to operate the transceiver again in this case.

Priority A channel selection

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

• Turning the power ON

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

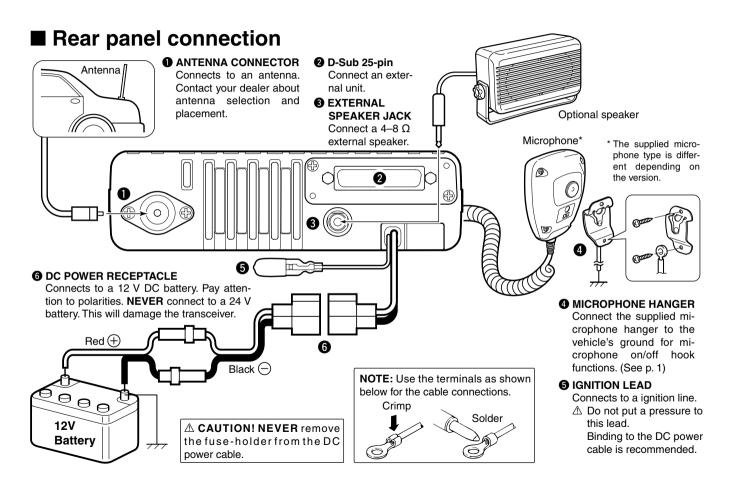
Status call

The Priority A channel is selected when transmitting a status call. (BIIS operation only)

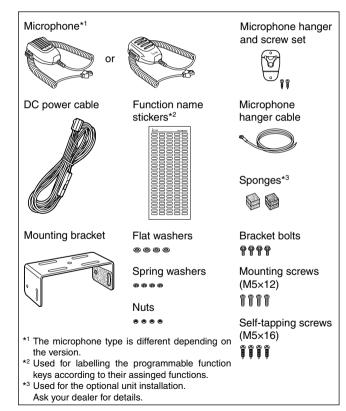
• Off hook.

The Priority A channel is selected when the microhone is took off from its hanger.

CONNECTION AND MAINTENANCE



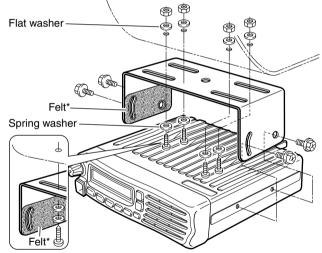
Supplied Accessories



Mounting the transceiver

The universal mounting bracket supplied with your transceiver allows overhead mounting.

• Mount the transceiver securely with the 4 supplied screws to a thick surface which can support more than 1.5 kg.



When using screws

*Felts reduce the vibration effects.

Antenna

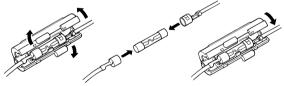
A key element in the performance of any communication systems is an antenna. Contact your dealer for more information regarding antennas and how to install them.

Fuse replacement

A fuse is installed in the supplied DC power cable. If a fuse blows or the transceiver stops functioning, track down the source of the problem if possible, and then replace the damaged fuse with a new rated one.

□ Fuse rating: 20 A

USE the 20 A fuse only.



Cleaning

If the transceiver becomes dusty or dirty, wipe it clean with a soft, dry cloth.



AVOID the use of solvents such as benzene or alcohol, as they may damage the transceiver surfaces.

Options

- RMK-3 SEPARATION KIT + OPC-607/OPC-608/OPC-609 SEPARATION CABLE Allows you to install the transceiver main unit separately from the front panel for operating convenience.
- OPC-1132/OPC-347 DC POWER CABLE OPC-1132: 3 m (9.8 ft) OPC-347: 7 m (23 ft)
- HM-152/HM-152T/HM-148 HAND MICROPHONE
- HM-152 : Hand microphone
- HM-152T : DTMF microphone
- HM-148 : Heavy duty microphone
- SM-25 DESKTOP MICROPHONE
- SP-5/SP-10/SP-22 EXTERNAL SPEAKER
- Input impedance : 4 Ω
- Max. input power : 5 W
- SP-5 : Large speaker for good audio quality.
- SP-10 : For all-round mobile operation.
- SP-22 : Compact and easy-to-install.
- UT-109R/UT-110R SCRAMBLER UNITS Non-rolling type (UT-109R)/Rolling type (UT-110R) voice scrambler unit provides higher communication security.
- UT-96R 5TONE UNIT
- UT-126H DIGITAL MODULATOR/DEMODULATOR UNIT Provides 6.25 kHz digital mode operation.

(UT-126H is a upgrade version of UT-119H. UT-119H can be used depending on the version. Ask your dealer for details.)

SAFETY TRAINING INFORMATION



Your Icom radio generates RF electromagnetic energy during transmit mode. This radio is designed for and classified as "Occupational Use Only", meaning it must be used only during the course of employment by individuals aware of the hazards, and the ways to minimize such hazards. This radio is NOT intended for use by the "General Population" in an uncontrolled environment.

- For compliance with FCC and Industry Canada RF Exposure Reguirements, the transmitter antenna installation shall comply with the following two conditions:
- 1. The transmitter antenna gain shall not exceed 0 dBi.
- 2. IC-E5061/E5061D:

The antenna is required to be located outside of a vehicle and kept at a distance of 48 centimeters or more between the transmitting antenna of this device and any persons during operation. For small vehicle as worst case, the antenna shall be located on the roof top at any place on the centre line along the vehicle in order to achieve 48 centimeters separation distance. In order to ensure this distance is met, the installation of the antenna must be mounted at least 48 centimeters away from the nearest edge of the vehicle in order to protect against exposure to bystanders. 2. IC-F6061/F6061D:

The antenna is required to be located outside of a vehicle and kept at a distance of 38 centimeters or more between the transmitting antenna of this device and any persons during operation. For small vehicle as worst case, the antenna shall be located on the roof top at any place on the centre line along the vehicle in order to achieve 38 centimeters separation distance. In order to ensure this distance is met, the installation of the antenna must be mounted at least 38 centimeters away from the nearest edge of the vehicle in order to protect against exposure to bystanders.



To ensure that your exposure to RF electromagnetic energy is within the FCC allowable limits for occupational use, always adhere to the following auidelines:

- DO NOT operate the radio without a proper antenna attached, as this may damage the radio and may also cause you to exceed FCC RF exposure limits. A proper antenna is the antenna supplied with this radio by the manufacturer or an antenna specifically authorized by the manufacturer for use with this radio.
- DO NOT transmit for more than 50% of total radio use time ("50% duty cycle"). Transmitting more than 50% of the time can cause FCC RF exposure compliance requirements to be exceeded. The radio is transmitting when the "TX indicator" lights red. You can cause the radio to transmit by pressing the "PTT" switch.

Electromagnetic Interference/Compatibility

During transmissions, your Icom radio generates RF energy that can possibly cause interference with other devices or systems. To avoid such interference, turn off the radio in areas where signs are posted to do so. **DO NOT** operate the transmitter in areas that are sensitive to electromagnetic radiation such as hospitals, aircraft, and blasting sites.

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Count on us!

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