OICOM

INSTRUCTION MANUAL

IC-F95115 IC-F9511T

This device complies with Part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

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-F9511S/T VHF MOBILE TRANSCEIVERS.

EXPLICIT DEFINITIONS

WORD	DEFINITION		
△WARNING	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.		

See the operating guide for details of MDC 1200 system and P25 Trunking system operations. Ask your dealer for details.

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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.

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.

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.

NEVER place the transceiver where normal operation of the vehicle may be hindered or where it could cause bodily injury.

NEVER allow children to touch the transceiver.

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°C (+140°F), or in areas subject to direct sunlight, such as the dashboard.

AVOID operating the transceiver without running the vehicle's engine. The vehicle's battery will quickly run out if the transceiver transmits while the vehicle's engine OFF.

AVOID placing the transceiver in excessively dusty environments.

AVOID placing the transceiver against walls. This will obstruct heat dissipation.

AVOID the use of 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.

ABOUT APCO PROJECT 25

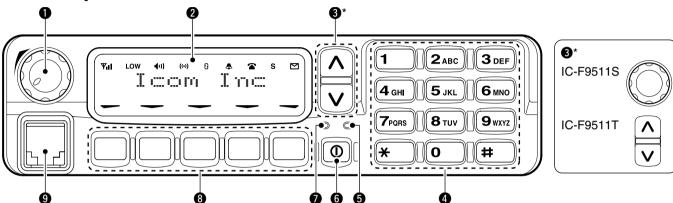
This device made under license under one or more of the following US patents: #4,590,473, #4,636,791, #5,148,482, #5,185,796, #5,271,017, #5,377,229.

The IMBE™ 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 decompile, reverse engineer, or disassemble the Object Code, or in any other way convert the Object Code into a human-readable form. U.S. Pat. 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, #5,195,166.

TABLE OF CONTENTS

IIV	//PORTANT	
E	XPLICIT DEFINITIONS	
ΡF	RECAUTIONS	
	BOUT APCO PROJECT 25	
TΑ	ABLE OF CONTENTS	i
1	PANEL DESCRIPTION	1–6
	■ Front panel	
	■ Function display	
	■ Programmable function keys	
2	BASIC OPERATION	
	■ Turning power ON	
	■ Channel selection	
	■ Call procedure	10
	■ Receiving and transmitting	10
	■ User set mode	1
	■ Scrambler function	13
3	CONNECTION AND MAINTENANCE	14–1
	■ Rear panel connection	1
	■ Supplied Accessories	18
	■ Mounting the transceiver	
	■ Antenna	
	■ Fuse replacement	10
	■ Cleaning	
4	OPTIONS	1
5	SAFETY TRAINING INFORMATION	18

■ Front panel



1 AF VOLUME CONTROL KNOB

Rotate the knob to adjust the audio output level.

• Minimum audio level is pre-programmed.

2 FUNCTION DISPLAY (p. 2)

Displays a variety of information, such as an operating channel number/name, 2-tone code, DTMF numbers and audible condition, etc.

3 DIAL or UP/DOWN KEYS

• IC-F9511S: DIAL

Rotate to select an operating channel, etc.

• IC-F9511T: UP/DOWN Keys

Push to select an operating channel, etc.

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

4 10-KEYPAD (IC-F9511T only)

The keypad allows you to enter digits to:

- Select memory channels, tone channels and DTMF codes (when in the DTMF code channel selection mode)
- Set TX code number
- Input text message for SDM operation
- Start up with a password
- Input the Individual ID code for digital operation.

6 BUSY INDICATOR

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

6 POWER SWITCH [POWER]

Push to turn the power ON and OFF.

- The following functions are available at power ON as options:
- Automatic scan start
- Password prompt
- Set mode

7 TRANSMIT INDICATOR

Lights red while transmitting.

13 DEALER-PROGRAMMABLE KEYS

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

In this instruction manual, these keys are from the left, called [P0]/[P1]/[P2]/[P3]/[P4].

9 MICROPHONE CONNECTOR

Connect the supplied microphone or optional DTMF microphone.

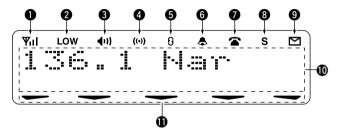
NEVER connect non-specified microphones. The pin assignments may be different and the transceiver may be damaged.

♦ 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:
- Automatic scan start when on hook.
- Automatic priority channel selection when off hook.
- Sets to 'Inaudible' condition (mute condition) when on hook.
- Sets to 'Audible' condition (unmute condition) when off hook.

■ Function display



1 SIGNAL STRENGTH INDICATOR

Indicates relative signal strength level.

2 LOW POWER INDICATOR

Appears when low output power is selected.

AUDIBLE INDICATOR

- → Appears when the channel is in the 'audible' (unmute) condition.
- Appears when the specified 2-tone code is received.

4 COMPANDER INDICATOR

Appears when the compander function is activated.

6 SCRAMBLER INDICATOR

Appears when the voice scrambler function is activated.

6 BELL INDICATOR

Appears/blinks when the specific 2-tone code is received, according to the pre-programming.

O CALL CODE MEMORY INDICATOR

Appears when the call code memory is selected.

3 SDM MEMORY INDICATOR

Appears when the SDM memory is displayed.

9 SDM INDICATOR

Appears when an SDM is received, or a transmit SDM is selected.

(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.

(1) ACTIVATED KEY INDICATOR

Appears above the key assigned as [DIGITAL] key when that key has been activated.

■ Programmable function keys

The following functions can be assigned to [DIAL]*, [UP], [DOWN], [P0], [P1], [P2], [P3] and [P4] programmable function keys.

Consult your Icom 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.

*The functions you can assign to [DIAL] are limited. (Only functions marked with ☆ can be assigned.)

☆ CH UP AND DOWN KEYS

- ⇒ Push (or Rotate)* to select an operating channel.
- Push (or Rotate)* to select a transmit code channel after pushing [TX Code CH Select].
- Push (or Rotate)* to select a DTMF channel after pushing [DTMF Autodial].
- → Push (or Rotate)* to select a scan group after pushing and holding [Scan A Start/Stop]/[Scan B Start/Stop].
- → Push (or Rotate)* to select an Individual ID code or Talkgroup ID code after pushing [Individual] or [Talkgroup].

*Rotate when this function is assigned to [DIAL].

☆ ZONE UP AND DOWN KEY (This function is for [DIAL] only)
Rotate to select the desired zone.

ZONE KEY

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

What is "zone"?—The desired channels are assigned into a zone according to the intended use for grouping. For example, 'Staff A' and 'Staff B' are assigned into a "Business" zone, and 'John' and 'Cindy' are assigned into a "Private" zone.

SCAN A START/STOP KEY

This key's operation depends on the Power ON Scan setting.

When the power ON scan function is turned OFF;

Push to start and cancel scanning operation. In case of transmission during scan, cancels scanning.

When the power ON scan function is turned ON;

Push to pause scanning. Scanning resumes after a specified time period has passed. In case of transmission during scan, pauses scanning. Scanning resumes after a specified time period has passed after the transmission is finished.

➡ Push and hold this key for 1 sec. to indicate the scan group, then select the desired group using [CH Up]/[CH Down].

SCAN B START/STOP KEY

- ➡ Push to start and cancel scanning operation. In case of transmission during scan, pauses scanning. Scanning resumes after a specified time period has passed after the transmission is finished.
- → Push and hold this key for 1 sec. to indicate the scan group, then select the desired group using [CH Up]/ [CH Down].

SCAN ADD/DEL (TAG) KEY

Push to add or delete the selected channel to/from the scan group.

PRIO A/B KEYS

- ⇒ Push to select Priority A or Priority B channel.
- ➡ Push and hold [Prio A (Rewrite)] to rewrite the Prio A channel.

MR-CH 1/2/3/4 KEYS

Push to select an operating channel directly.

MONI (AUDI) KEY

Mute and release the CTCSS (DTCS) or 2-tone squelch mute. Open any squelch/deactivate any mute while pushing this key. (LMR operation only)

PUBLIC ADDRESS KEY

While in the hailer mode, push this key for the audio output via the hailer amplifier. Ask your dealer for details.

While in the normal mode, the audio output via the cable can be controlled from the transceiver separately from [VOL] control knob.

- This audio output can be used as a 'public address' function when an external audio amplifier and speaker are connected additionally.

 Push this key than appear into the microphone while pushing the
- Push this key, then speak into the microphone while pushing the PTT switch.
- [CH Up]/[CH Down] allow you to set the audio output level from minimum to maximum.

RX SPEAKER KEY

While in the hailer mode, the external speaker drive function is also available simultaneously when the external connections are made for the 'public address' function. The received audio can be heard via the external speaker when this key is pushed.

- 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:

[Call] (incl. Call A and Call B), [Moni(Audi)] and [Emergency].

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.

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.

TALK AROUND KEY

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.

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 desired DTMF channel, push this key to transmit the DTMF code.

SCRAMBLER FUNCTION

Push to toggle the voice scrambler function ON and OFF.

RE-DIAL KEY

Push to transmit the last-transmitted DTMF code.

CALL KEYS

Push to transmit a 2-tone 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 KEYS

- Push and hold to transmit an emergency call.
- ➡ When [Emergency Single (Silent)] or [Emergency Repeat (Silent)] is pushed, an emergency call is transmitted without a beep emission and LCD indication change.
 - If you want to cancel the emergency call, push (or 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 does not light when a signal is received or a key is pushed, etc.

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.

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. 11)

☆ TX CODE CHANNEL UP/DOWN KEYS

Push (or Rotate)* to select a TX code channel directly. *Rotate when this function is assigned to [DIAL].

HOOK SCAN KEY

When the hook on scan function is turned ON, push this key to stop scanning temporarily. Push this key again to re-start scanning.

USER SET MODE KEY

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

User set mode is also available via the 'Power ON function.' Refer to p. 13 also.

OPT 1/2/3 KEYS

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

TONE/NAC CH SELECT KEY

(LMR (P25 Conventional) operation only)

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

SCRAMBLER/ENCRYPTION KEY

(LMR (P25 Conventional) operation only)

- ➡ While in the analog mode operation, push to toggle the voice scrambler function ON and OFF.
- ➡ While in the digital mode operation, push to toggle the encryption transmission function ON and OFF.
- ➡ While in the mixed (digital and analog) mode operation, push to toggle the voice scrambler and encryption transmission functions ON and OFF, separately or simultaneously as below.

Voice scrambler and Encryption transmittion functions **OFF** (\S disappears)

↓ PUSH

Voice scrambler function **ON** (appears)

↓ PUSH

Encryption transmittion function ON(9 appears)

↓ PUSH

Voice scrambler and Encryption transmittion functions **ON** (§ appears)

□ PUSH

♦ For Digital mode operation only INDIVIDUAL KEY

- → Push to enter the individual ID code selection mode directly. Then select the desired individual ID code using [CH Up]/ [CH Down]. (p. 12)
- ➡ Push to stop the beep emission when receiving a matched individual ID code.

TALKGROUP KEY

- ➡ Push to enter the talkgroup ID code selection mode directly. Then select the desired talkgroup ID code using [CH Up]/ [CH Down]. (p. 12)
- ➡ Push to stop the beep emission when receiving a matched talkgroup ID code.

ZEROIZE KEY

Push and hold to zeroize the encryption key data, programmed by the FS-F9511? FLASH LOADER.

ENCRYPTION KEY

Push to toggle the encryption transmission function ON or OFF.

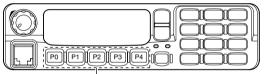
When this function is turned ON, "9" appears on the function display.

BASIC OPERATION

■ Turning power ON

- ① Push [①] 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.
 - 10-keypad* can be used for password input.
 - *IC-F9511T only:
 - 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.



*In this instruction manual, these keys are from the left, called [P0]/[P1]/[P2]/[P3]/[P4].

KEY	РО	P1	P2	РЗ	P4
NUMBER	0	1	2	3	4
	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.

■ Channel selection

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

NON-ZONE TYPE:

Push [CH Up] or [CH Down], or rotate [CH Up/Down] to select the desired operating channel, in sequence; or, push one of [MR-CH 1] to [MR-CH 4] keys to select a channel directly.

ZONE TYPE:

Push [Zone] then push [CH Up] or [CH Down], or rotate [Zone Up/Down] to select the desired zone.

AUTOMATIC SCAN TYPE:

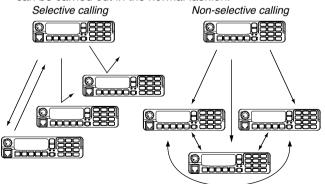
Channel setting is not necessary for this type. When turning power ON, the transceiver automatically starts scanning. Scanning stops when receiving a call.

2 BASIC OPERATION

■ Call procedure

When your system employs tone signaling (excluding CTCSS and DTCS), the call pro cedure 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.

- Select the desired TX code channel, 2-tone code, Individual ID code* or Talkgroup ID code* according to your System Operator's instructions.
 - This may not be necessary depending on programming.
 - Refer to pgs. 11–13 for selection. *Digital mode operation only.
- ② Push the call key (assigned to one of the dealer programmable keys; except for the Digital mode operation) or IPTTI.
- 3 After transmitting, the remainder of your communication can be carried out in the normal fashion.



■ Receiving and transmitting

Receiving:

- 1) Push [1) to turn the power ON.
- ② Push [CH Up] or [CH Down], or rotate [CH Up/Down] to select a channel, in sequence.
- 3 When receiving a call, 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-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 Push [CALL] when initiating a call from your side.
 - Coded audio may be heard from the transceiver, then "41)" appears.
 - This operation may not be necessary depending on your signaling system. Ask your dealer for details.
- While pushing and holding [PTT], speak into the microphone at your normal voice level.
- ⑤ Release [PTT] to receive.

/// IMPORTANT: To maximize the readability of your signal;

- 21. 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 normal voice level.

♦ 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; "41)" does not appear.)
- The channel is busy.
- Un-matched (or matched) CTCSS is received. (Depending on the pre-setting)
- Un-matched (or matched) NAC is received.* (Depending on the pre-setting)
- The selected channel is a 'receive only' channel.
- *Digital mode operation only.

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]/[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], or rotate [CH Up/Down] to select the desired TX code channel.
- 3 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], [TX Code CH Down] or [TX Code CH Up/Down] key assignment, the programmed TX code channel can be selected directly when pushed or rotated.

2 BASIC OPERATION

♦ Individual ID code selection

(Digital mode operation only)

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

- 1 Push [Individual]— an Individual ID code (or name) appears.
- ② Push [CH Up] or [CH Down], or rotate [CH Up/Down] to select the desired Individual ID code.
- 3 Push [PTT] to transmit the selected Individual ID code.
- 4 Push [Individual]— cancels the selected Individual ID code (return to the pre-set Talkgroup ID code in the channel.)

♦ Talkgroup ID code selection

(Digital mode operation only)

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

- ① Push [Talkgroup]— a Talkgroup ID code (or name) appears.
- ② Push [CH Up] or [CH Down], or rotate [CH Up/Down] to select the desired Talkgroup ID code.
- 3 Push [PTT] to transmit the selected Talkgroup ID code.
- 4 Change the channel— cancels the selected Talkgroup ID code (return to the pre-set Talkgroup ID code in the channel.)

♦ 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.

TO SELECT ATX CODE:

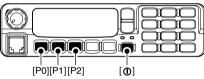
- 1) Push [DTMF Autodial]— a DTMF channel appears.
- ② Push [CH Up] or [CH Down], or rotate [CH Up/Down] to select the desired DTMF channel.
- ③ Push [DTMF Autodial] to transmit the DTMF code in the selected DTMF channel.

■ User set mode

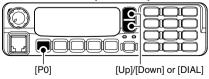
User set mode is accessed with [User Set Mode] and allows you to set seldom-changed settings. In this case you can "customize" the transceiver operation to suit your preferences and operating style.

Entering the user set mode:

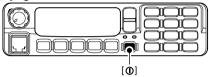
① While pushing and holding [P1] and [P2], push [①] to turn the power ON. Then, push and hold [P0] to enter user set mode.



- ② Push [P0] several times to select the appropriate item. Then, push [Up] or [Down] or rotate [DIAL] to set the desired level/condition.
 - Available set mode functions are Backlight, LCD Contrast, Beep, Beep Level, SQL Level, AF Min Level, Mic Gain, Horn, Time, Date, Wake Up and Sleep.



③ Push [①] again to exit set mode.



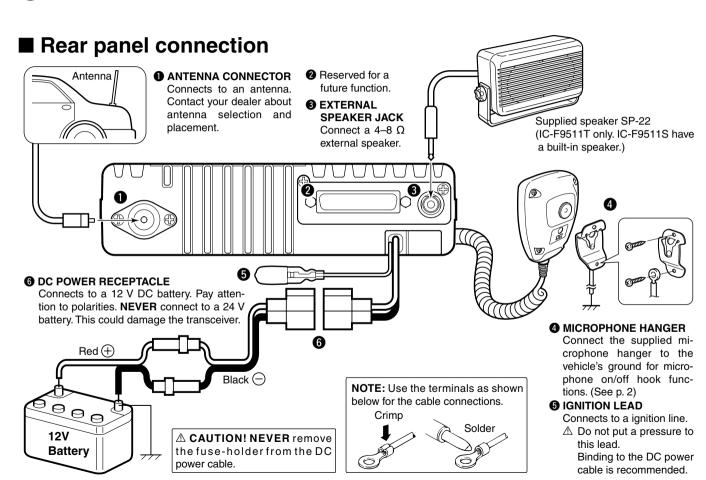
User set mode is also available via a programmable key. Please refer to p. 6 [User Set Mode] section.

■ Scrambler function

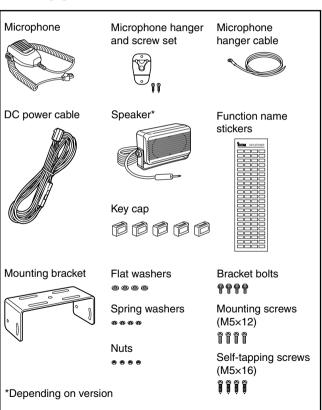
The voice scrambler function provides private communication between stations. The frequency inversion type is equipped to all versions, moreover, the optional Rolling or Non-rolling type can be available.

- ① Push [Scrambler] to turn the scrambler function ON.
 - "3" appears.
- ② Push [Scrambler] again to turn the scrambler function OFF.
 - "3" disappears.

3 CONNECTION AND MAINTENANCE



■ Supplied Accessories

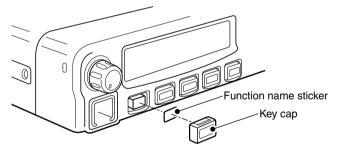


Function name stickers

There are no names on the programmable function keys since the functions can be freely assigned to these keys.

Attach the supplied function name stickers as below to the appropriate keys for easy recognition of that key's assigned function.

Then, protect the attached stickers from unsticking with the supplied key cap as below.

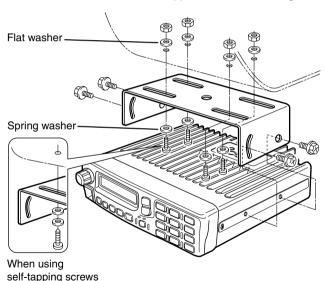


3 CONNECTION AND MAINTENANCE

■ 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.



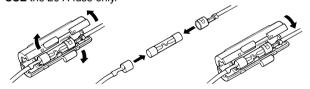
■ Antenna

A key element in the performance of any communication system is an antenna. Contact your dealer about antennas and the best places to mount 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 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.

• RMK-2 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.

• SP-5/SP-10/SP-22 EXTERNAL SPEAKERS

Input impedance : 4Ω 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. The same as supplied with the transceiver (depending on version.)

• HM-152/HM-152T/HM-148 HAND MICROPHONES

HM-152 : Hand microphone HM-152T : DTMF microphone HM-148 : Heavy duty microphone

• SM-25 DESKTOP MICROPHONE

• UT-125 ENCRIPTION BOARD

5

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 Requirements, the transmitter antenna installation shall comply with the following two conditions:
 - 1. The transmitter antenna gain shall not exceed 0 dBi.
 - 2. IC-F9511S/T:

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.



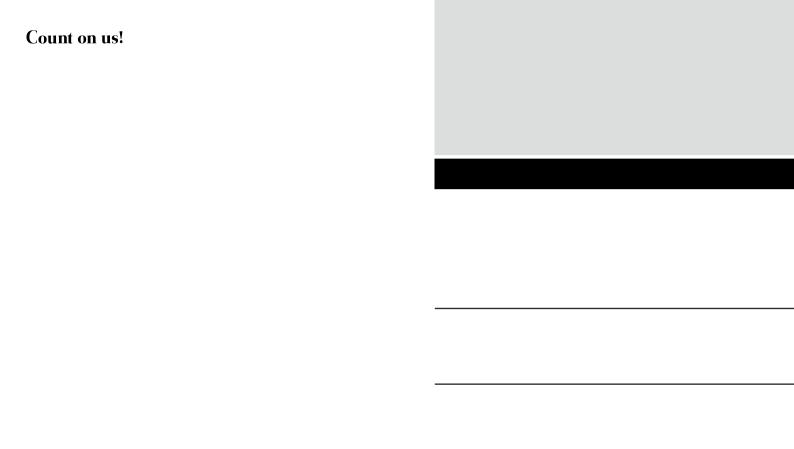
To ensure that your exposure to RF electromagnetic energy is within the FCC allowable limits for occupational use, always adhere to the following guidelines:

- 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 lcom 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.

	MEMO



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