OICOM

INSTRUCTION MANUAL

VHF TRANSCEIVER

IC-F510 IC-F520

UHF TRANSCEIVER

IC-F610 IC-F620





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-F510/IC-F520 VHF TRANSCEIVER and IC-F610/IC-F620 UHF TRANSCEIVER.

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.

CAUTIONS

⚠ 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 supplied microphone only. Other microphones have different pin assignments and may damage the transceiver.

DO NOT use or place the transceiver in areas with tem-

peratures below $-22^{\circ}F$ ($-30^{\circ}C$) or above $+140^{\circ}F$ ($+60^{\circ}C$) 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 is in transmission 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

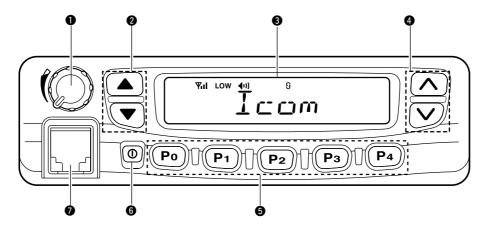
CAUTION: Changes or modifications to this transceiver, not expressly approved by Icom Inc., could void your authority to operate this transceiver under FCC regulations.

TABLE OF CONTENTS

IMF	ORTANTPLICIT DEFINITIONS
CAI	JTIONS
TAE	JTIONSBLE OF CONTENTS
1	PANEL DESCRIPTION1-
	■ Front panel
	Function display
•	■ Programmable function keys
2	OPERATION
	■ Channel selection
	■ Receiving and transmitting
	♦ Transmitting notes
	♦ Tx code channel selection
	♦ Tx code number selection
	♦ DTMF transmission
	♦ Scrambler function
	♦ User set mode10
3	OPTIONAL SmarTrunk II™ OPERATION 11-12
	■ SmarTrunk II™ and conventional modes
4	■ SmarTrunk II TM operation
4	■ Rear panel and connection
	■ Supplied Accessories
	■ Mounting the transceiver
	♦ Inverting the Front panel
	♦ Mounting the Transceiver
	■ Optional UT-105/UT-108 installation
	■ Optional UT-109/UT-110 installation
	■ Optional OPC-617 installation
	■ Antenna
	Fuse replacement
_	■ Cleaning
5 6	OPTIONS19 SAFETY TRAINING INFORMATION20
U	SAFETT TRAINING INFORMATION

PANEL DESCRIPTION

■ Front panel



1 AF VOLUME CONTROL KNOB

- ⇒Rotate the knob to adjust the audio output level.
 - Minimum audio level is pre-programmed.

②LEFT UP/DOWN [▲]/[▼] KEYS

→One of several functions can be programmed by your Dealer. (Same as [P0] to [P4] keys)

3 FUNCTION DISPLAY

⇒Displays variety of information, such as an operating channel number/name, 2/5tone code, DTMF numbers and audible condition, etc.

NOTE: The above functions depend on pre-programming.

4 RIGHT UP/DOWN [∧]/[√] KEYS

- ⇒Push to select the operating channel.
- →Can be programmed for one of several functions by your Dealer. (Same as [P0] to [P4] keys)

1

5 DEALER-PROGRAMMABLE KEYS [P0] to [P4]

Desired functions can be programmed independently by your Dealer.

6 POWER SWITCH [POWER]

- ⇒Push to turns the power ON and OFF.
 - The following functions are available at power ON as options:
 - Automatic scan start
 - Password prompt
 - Set mode

MICROPHONE CONNECTOR

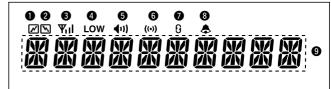
→Connect the supplied microphone or optional DTMF microphone for SmarTrunk II™ operation here.

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 hung on.
 - Automatic priority channel selection when hung off.
 - Sets to 'Inaudible' condition (mute condition) when hung on.
 - Sets to 'Audible' condition (un-mute condition) when hung off.

■ Function display



1 TRANSMIT INDICATOR

⇒Appears while transmitting or sending a 2/5tone code.

2 BUSY INDICATOR

⇒Appears while the channel is in busy.

3 SIGNAL STRENGTH METER

⇒Indicates relative signal strength level.

4 LOW POWER INDICATOR

⇒Appears when low output power is selected.

6 AUDIBLE INDICATOR

→ Appears when the channel is in the 'Audible' condition (unmute condition).

6 COMPANDER INDICATOR

→Appears when compander function is activated.

1 PANEL DESCRIPTION

OSCRAMBLER INDICATOR

→ Appears when scrambler function is activated. (Optional UT-109 (#02)/UT110 (#02) SCRAMBLER UNIT is required.)

32/5TONE INDICATOR

⇒Appears when specified 2/5tone call is received.

9 ALPHANUMERIC DISPLAY

⇒Displays the CH number, 2/5tone indication, DTMF numbers, Audible indication, etc.

■ Programmable function keys

The following functions can be assigned to [P0], [P1], [P2], [P3], [P4], [\blacktriangle], [\blacktriangledown], and [\checkmark] programmable function keys.

Consult your Icom Dealer or System operator for details concerning your transceivers programming.

In the following explanations, programmable function names are bracketed, the specific switch used to activate the function depends on programming.

[CH UP] CH UP AND DOWN KEYS

[CH DN]

- Select an operating channel.
- Select a transmit code channel after pushing the [TX CH] key.
- Select a DTMF channel after pushing the [DTMF] key.
- Select a scan group wile pushing and holding the [SCAN] key.

[CH1] OPERATING CHANNEL KEYS

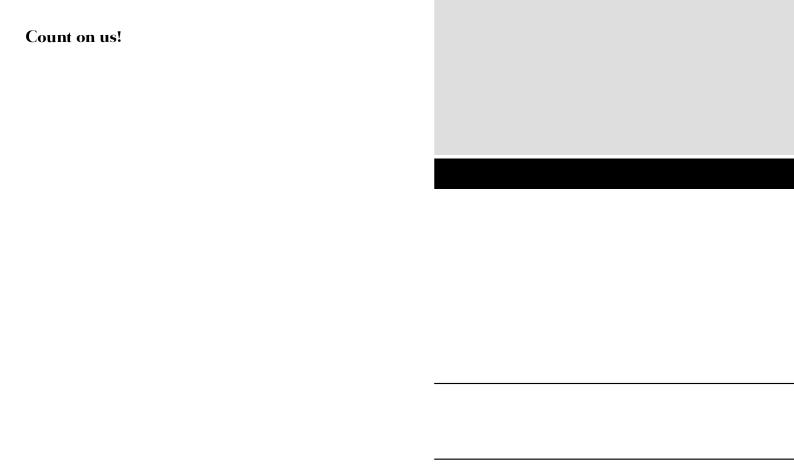
[CH2] Select an operating channel directly.

[CH3]

[CH4]

[PRI A] PRIORITY CHANNEL KEYS

[PRI B] Select priority A or priority B channel with each push.



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(25W)

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