

INSTRUCTIONS

VHF MOBILE TRANSCEIVER

IC-F5062 IC-F5062D

UHF MOBILE TRANSCEIVER

IC-F6062

Thank you for choosing this Icom product. **READ ALL INSTRUCTIONS** carefully and completely before using this product

SAVE THESE INSTRUCTIONS — These instructions contain important operating instructions for the IC-F5062, IC-F5062D, and the IC-F6062.

See the operating guide for details of the MDC, LTR®, and IDAS™ and the BIIS (Binary Interchange of Information and Signaling) 1200 system operations. Ask your dealer

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- The use of Icom transceivers with any equipment that is not manufactured or approved by Icom.

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Microphone

hanger and

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Microphone

hanger cable

Sponges*

Mounting bracket

Self-tapping screws (M5×16 mm)

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	

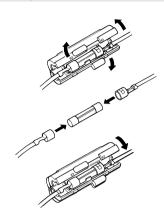
ANTENNA

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

FUSE REPLACEMENT

A fuse is installed in the supplied DC power cable. If a fuse blows, track down the source of the problem, repair it, and then replace the damaged fuse with a new rated one. Tuse rating: 250 V 10 A

NOTE: Use only a 10 A fuse.



Fuse rating explanation

Fuse coding: FUSE 250 V 10 A Fuse voltage rating: 250 Volts Fuse current rating: 10 Amperes

CLEANING

If the transceiver becomes dusty or dirty, wipe it clean with

PRECAUTIONS

cause bodily injury.

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

⚠ WARNING! NEVER operate the transceiver during a lightning storm. It may result in an electric shock, cause a fire or damage the transceiver. Always disconnect the power source and antenna before a storm.

 \triangle WARNING! NEVER connect the transceiver to a power source of more than 16 V DC such as a 24 V battery. This could damage 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. ⚠ WARNING! NEVER place the transceiver where normal operation of the vehicle may be hindered or where it could

CAUTION: DO NOT expose the transceiver to rain, snow or any liquids

CAUTION: DO NOT use the non-specified microphone Other microphones have different pin assignments and may damage the radio.

CAUTION: DO NOT place or leave the transceiver in areas with temperatures below –25°C or above +55°C, or in areas subject to direct sunlight, such as the dashboard.

CAUTION: 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.

CAUTION: DO NOT place or leave the transceiver in excessively dusty environments.

CAUTION: DO NOT place the transceiver against walls or put anything on top of the transceiver. Otherwise heat dissipation will be obstructed.

CAUTION: DO NOT use harsh solvents such as Benzine or alcohol when cleaning, as they damage the transceiver's surfaces.

CAUTION: CONFIRM that all connectors and jacks are dry and clean before attachment. Exposing them to dust or water will result in serious damage to the transceiver.

CAUTION: DO NOT operate the transceiver if it becomes hot after operating it continuously for long periods of time. This may damage the transceiver.

NEVER place the transceiver in an insecure place to avoid inadvertent use by unauthorized persons.

For European versions



CAUTION: Hot surfaces. DO NOT touch the transceiver's surface after continuously transmitting for long periods of time. The transceiver's chassis radiates heat, and it will become hot to protect the power amplifier unit from overheating. Touching it may cause a burn.

ABOUT CE AND DOC

Hereby, Icom Inc. declares that the versions of IC-F5062, IC-F5062D, and IC-F6062 which have the "CE" symbol on the product, comply with the essential requirements of the Radio Equipment Directive, 2014/53/EU,

and the restriction of the use of certain hazardous substances in electrical and electronic equipment Directive, 2011/65/EU. The full text of the EU declaration of conformity is available at the following internet address: https://www.icomjapan.com/support/

About e-marking: Detailed installation notes for Icom mobile transceivers to be fitted into vehicles are

Please contact your Icom dealer or distributor.

DISPOSAL



The crossed-out wheeled-bin symbol on your product, literature, or packaging reminds you that in the European Union, all electrical and electronic products, batteries, and accumulators (rechargeable batteries) must be taken to designated collection locations at the end of their working life. Do not dispose of these products as unsorted municipal waste. Dispose of them according to the laws in your area.

FREQUENCY RANGE AND OUTPUT POWER

Model	Frequency Range	Output Power
VHF Mobile Transceiver IC-F5062/IC-F5062D	136 – 174 MHz	25 W
UHF Mobile Transceiver IC-F6062	400 – 470 MHz	25 W

 Channel spacing: 6.25 kHz*, 12.5 kHz, 20 kHz, 25 kHz ' Only Digital mode

VOICE CODING TECHNOLOGY

The AMBE+2TM 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. #8,595,002, #8,359,197, #8,315,860, #8,200,497,

#7,970,606, #6,912,495 B2

SUPPLIED ACCESSORIES















*2 Used for optional unit installation. Ask your dealer for details.







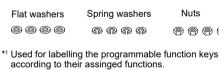
















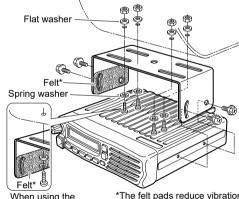


NOTE: Some accessories are not supplied, or the shape is different, depending on the transceiver version

MOUNTING THE TRANSCEIVER

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

Mount the transceiver securely with the 4 supplied screws to a thick surface that can support more than



*The felt pads reduce vibration. When using the self-tapping screws

OPTIONS

- RMK-3 SEPARATION KIT + OPC-609 SEPARATION CABLE Allows you to install the transceiver main unit separately from the front panel for operating convenience
- HM-152/HM-152T/HM-148G/HM-148T HAND MICROPHONES

HM-152: Hand microphone HM-152T: DTMF microphone

HM-148G: Self grounding heavy duty microphone HM-148T: Self grounding heavy duty microphone with

10-keypad
The 10-keypad of this microphone can be used for the DTMF code transmission only.

- SM-26 DESKTOP MICROPHONE
- · SP-30/SP-35/SP-35L EXTERNAL SPEAKERS Input impedance: 4 Ω SP-35/SP-35L: Rated input 5 W, Maximum input 7 W SP-30: Rated input 20 W, Maximum input 30 W
- UT-126H DIGITAL MODULATOR/DEMODULATOR UNIT Enables 6.25 kHz digital mode operation. Which unit to use depends on your transceiver version. Ask your dealer for details.

Some options may not be available in some countries. Please ask your dealer for details

*Ask your dealer for details.

♦ About the LED indicator

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

About the Microphone connector

Connect the supplied or optional microphone.

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

♦ MICROPHONE

The supplied or optional microphone has a PTT switch and a hanger.

- The following functions are available when you put the microphone ON hook, or take it OFF hook (depending on the presetting):
- Automatic scan starts when you put it ON hook - Scan is paused or cancelled when you take it OFF
- Automatically selects the Priority channel when you
- Sets to the 'Inaudible' (mute) mode when you put it ON
- Sets to the 'Audible' (unmute) mode when you take it OFF hook.

BASIC OPERATION

♦ Turning power ON

• Hold down [\circlearrowleft] to turn ON the power.

NOTE: If the transceiver is programmed for a start up password, input the digit codes as directed by your dealer. See the operating guide for details.

Receiving and Transmitting

Receiving:

- Select a channel.

 Push [CH Up] or [CH Down].
- Push one of the direct channel select keys, [MR-CH 1] to [MR-CH 4].
- When receiving a call, rotate [VOL] to adjust the audio output level to a comfortable listening level.

Transmitting:

Wait until the channel is clear to avoid interference.

1. Take the microphone off the hook.

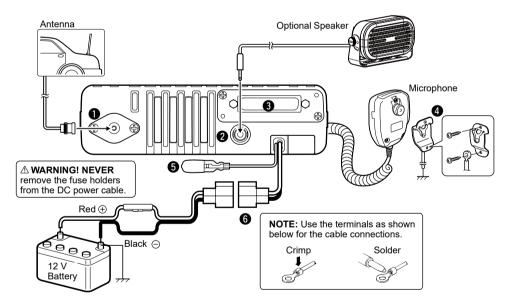
- While scanning, the scan stops.
 Wait for the channel to become clear.
- The channel is busy when the LED indicator lights green.

 Mhile holding down [PTT], speak at a normal voice

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 parallel level.

REAR PANEL CONNECTION

♦ For mobile operation



1 ANTENNA CONNECTOR

Connect to an antenna. Contact your dealer about antenna selection and placement.

2 EXTERNAL SPEAKER JACK Connect a 4 ~ 8 Ω external speaker

3 D-Sub 25-pin

Connects to an external unit.

4 MICROPHONE HANGER

Connect the supplied microphone hanger to the vehicle's ground for microphone ON/OFF hook functions. (See 'PANEL DESCRIPTION' for details.)

5 IGNITION LEAD

Connects to an ignition line.

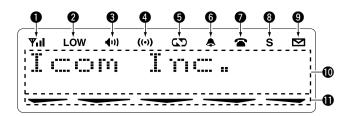
CAUTION: DO NOT put a pressure on this lead. Binding to the DC power cable is recommended.

6 DC POWER RECEPTACLE

Connects to a 12 V DC battery. Pay attention to polarities.

△ WARNING! NEVER connect to a 24 V battery. This will damage the transceiver

FUNCTION DISPLAY



1 SIGNAL STRENGTH ICON

Displays relative receive signal strength level.

Y
Y

V

I Weak ← Receive Signal level ⇒ Strong

2 LOW POWER ICON

splayed when low output power is selected.

3 AUDIBLE ICON

- → Displayed when the channel is in the 'Audible' (unmute) mode.
- Displayed when a matching signal is received.

4 COMPANDER ICON

Displayed when the Compander function is activated.

SCRAMBLER ICON

Displayed when the Voice Scrambler function is

6 BELL ICON

Displayed or blinks when a matching signal is received, according to the presetting

CALL CODE MEMORY ICON

→ Displayed when the call code memory is selected. ➡ Displayed when a phone call is received.*¹

SCROLL ICON

Displayed when an SDM (Short Data Message), including more than 12 characters, is selected in the received message selection mode*2

MESSAGE ICON

Displayed when an SDM is received, or an SDM is selected for transmission*2.

1 ALPHANUMERIC DISPLAY

- Displays an operating channel number, channel name, Set mode contents, DTMF code, and so on.
- → Depending on the presetting, characters are displayed in 1 line or 2 lines on the LCD.
- In the instruction manual, the LCD illustration is
- described as having characters displayed in 2 lines.

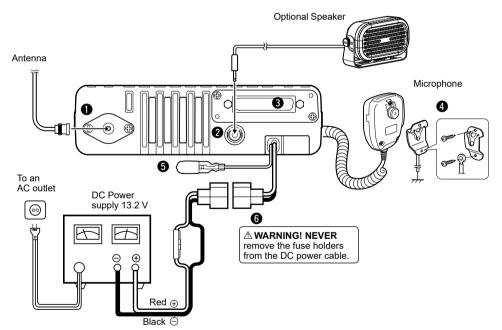
ACTIVATED KEY ICON

Displayed above the key assigned as [Scan A Start/ Stop], [Scan B Start/Stop], [Scan Add/Del(Tag)], [Lock], [Talk Around], [Surveillance] or [BIIS button]*2 keys while that key is activated.

*1 LTR® operation only, *2 BIIS operation only

See the operating guide for details of the MDC, LTR®, and IDAS™ and the BIIS (Binary Interchange of Information and Signaling) 1200 system operations. Ask your dealer for details.

♦ For base station operation



1 ANTENNA CONNECTOR

2 EXTERNAL SPEAKER JACK Connect a 4 \sim 8 Ω external speaker.

3 D-Sub 25-pin

Connects to an external unit.

4 MICROPHONE HANGER

Connect the supplied microphone hanger to the ground for microphone ON/OFF hook functions. (See 'PANEL DESCRIPTION' for details.)

G IGNITION LEAD

6 DC POWER RECEPTACLE

Connects to a 13.2 V DC power supply. Pay attention to polarities.

Make sure the ground terminal of the DC power supply is grounded.