

ICOM INSTRUCTIONS

VHF DIGITAL TRANSCEIVER

IC-F5130D

UHF DIGITAL TRANSCEIVER

IC-F6130D

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

Icom is not responsible for the destruction, damage to, or performance of any Icom or non-Icom equipment, if the malfunction is because of:

- Force majeure, including, but not limited to, fires, earthquakes, storms, floods, lightning, other natural disasters, disturbances, riots, war, or radioactive contamination.
- The use of Icom transceivers with any equipment that is not manufactured or approved by Icom.

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SAFETY TRAINING INFORMATION



WARNING

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 IC RF Exposure Requirements, the transmitter antenna installation shall comply with the following three conditions:
1. The transmitter antenna gain shall not exceed 0 dBi.
 2. IC-F5130D:
The antenna is required to be located outside of a vehicle and kept at a distance of 57 centimeters (23 inches) 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 center line along the vehicle in order to achieve 57 centimeters (23 inches) separation distance. In order to ensure this distance is met, the installation of the antenna must be mounted at least 57 centimeters (23 inches) away from the nearest edge of the vehicle in order to protect against exposure to bystanders.
 3. IC-F6130D:
The antenna is required to be located outside of a vehicle and kept at a distance of 41 centimeters (17 inches) 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 center line along the vehicle in order to achieve 41 centimeters (17 inches) separation distance. In order to ensure this distance is met, the installation of the antenna must be mounted at least 41 centimeters (17 inches) away from the nearest edge of the vehicle in order to protect against exposure to bystanders.
 3. IC-F5130D:
Transmit only when people outside the vehicle are at least the recommended minimum distance of 136 centimeters (54 inches) away from the properly installed antenna. This separation distance will ensure that there is sufficient distance from a properly installed externally-mounted antenna to satisfy the RF exposure requirements in the applicable RF exposure compliance standards.
 3. IC-F6130D:
Transmit only when people outside the vehicle are at least the recommended minimum distance of 117 centimeters (47 inches) away from the properly installed antenna. This separation distance will ensure that there is sufficient distance from a properly installed externally-mounted antenna to satisfy the RF exposure requirements in the applicable RF exposure compliance standards.

IMPORTANT

SAVE THESE INSTRUCTIONS— This instruction sheet contains basic operating instructions for the transceiver.

This instruction sheet includes some functions that are usable only when your dealer presets them. The transceiver may have other functions and operations that are not described in this instruction sheet. Ask your dealer for preset function details.

EXPLICIT DEFINITIONS

WORD	DEFINITION
 DANGER!	Personal death, serious injury or an explosion may occur.
 WARNING!	Personal injury, fire hazard or electric shock may occur.
CAUTION	Equipment damage may occur.
NOTE	Recommended for optimum use. No risk of personal injury, fire or electric shock.

PRECAUTIONS

- △ **DANGER HIGH RF VOLTAGE! NEVER** touch an antenna or antenna connector while transmitting. This could cause an electrical shock or burn.
- △ **DANGER! NEVER** operate the transceiver near unshielded electrical blasting caps or in an explosive atmosphere. This could cause an explosion and death.
- △ **DANGER! NEVER** place the transceiver where air bag deployment may be obstructed during mobile operations.
- △ **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.
- △ **WARNING! NEVER** let metal, wire, or other objects contact the transceiver inside or make incorrect contact with connectors on the rear panel. This could cause an electric shock or damage the transceiver.
- △ **WARNING! NEVER** place the transceiver where the vehicle's normal operation may be hindered or where it could cause bodily injury.
- △ **WARNING! NEVER** operate the transceiver if you notice an abnormal odor, sound, or smoke. Immediately turn OFF the power and remove the DC power cable. Contact your Icom dealer or distributor for advice.
- △ **WARNING! NEVER** put the transceiver in an unstable place where the transceiver may suddenly move or fall. This could cause an injury or damage the transceiver.
- CAUTION: DO NOT** connect the transceiver to a power source of more than 16 V DC such as a 24 V battery. This could damage the transceiver.

CAUTION: DO NOT 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.

CAUTION: DO NOT expose the transceiver to rain, snow or any liquids. They could damage the transceiver and microphone.

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

CAUTION: DO NOT use 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.

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

CAUTION: DO NOT use harsh solvents such as Benzine or alcohol when cleaning. This could damage the equipment surfaces. If the surface becomes dusty or dirty, wipe it clean with a soft, dry cloth.

CAUTION: DO NOT reverse the DC power cable polarity. This could damage the transceiver.

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

NEVER 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.

BE CAREFUL! The transceiver may become hot after continuously transmitting for long periods of time.

Operate the transceiver that complies with your local laws and regulations. Depending on countries and/or regions, transceiver's output power and/or operations on specific frequencies may be restricted to avoid interferences with existing radio stations or services.

For the 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 E-marking: Detailed installation notes for Icom mobile transceivers to be fitted into vehicles are available. Please contact your Icom dealer or distributor.

ABOUT GPS/GLONASS RECEIVER

DO NOT install the GPS antenna near the transceiver or the antenna.
A GPS or GLONASS receiver may not work if the transceiver transmits or receives in the frequency ranges as shown below.

For the IC-F5130D		(Unit: MHz)
	GPS Receiver	GLONASS Receiver
Transmit	142.850 ~ 142.860	145.275 ~ 145.945
	157.135 ~ 157.145	159.805 ~ 160.540
Receive	146.845 ~ 147.110	149.745 ~ 150.790

For the IC-F6130D		(Unit: MHz)
	GPS Receiver	GLONASS Receiver
Transmit		400.000 ~ 401.343
	443.545 ~ 444.065	449.335 ~ 451.425

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. #8,359,197 and #7,970,606.

ABOUT CE AND DOC



Hereby, Icom Inc. declares that the versions of IC-F5130D and IC-F6130D 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/>

DISPOSAL

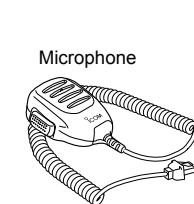


The crossed-out wheeled-bin symbol on your product, literature, or packaging reminds you that in the European Union, all electrical and electronic products, batteries, and accumulators (rechargeable batteries) must be taken to designated collection locations at the end of their working life. Do not dispose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

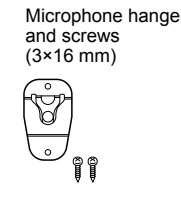
ABOUT UKCA DOC

To obtain the UKCA Declaration of Conformity, please contact Icom UK Limited by email at info@icomuk.co.uk or alternatively call + 44(0) 1227 741741.

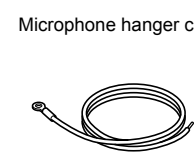
SUPPLIED ACCESSORIES



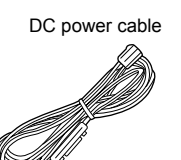
Microphone



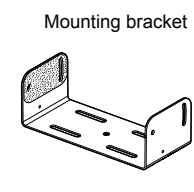
Microphone hanger and screws (3×16 mm)



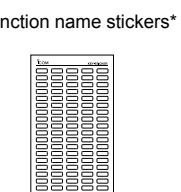
Microphone hanger cable



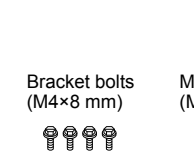
DC power cable



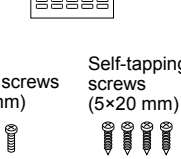
Mounting bracket



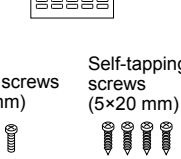
Function name stickers*



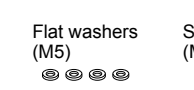
Bracket bolts (M4×8 mm)



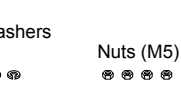
Mounting screws (M5×12 mm)



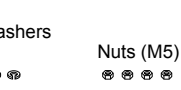
Self-tapping screws (5×20 mm)



Flat washers (M5)



Spring washers (M5)



Nuts (M5)

* Used for labelling the programmable function keys according to their assigned functions.

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

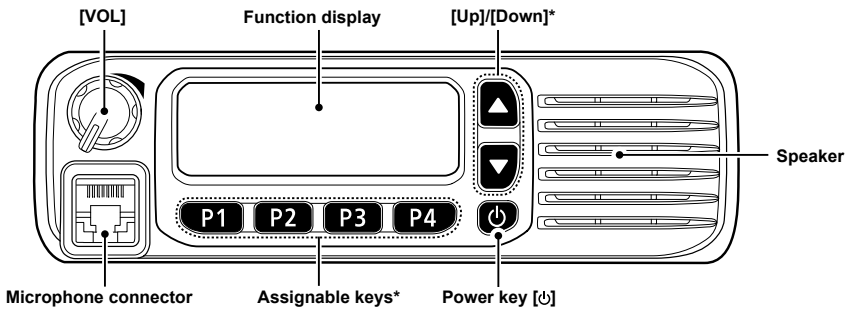
FCC SDoC

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

Responsible Party
Company Name: Icom America Inc.
Address: 12421 Willows Road NE, Kirkland, WA 98034

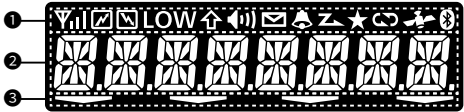
U.S. Contact Information
800-USA-ICOM (800-872-4266)
Monday – Friday 7 AM to 5 PM PST

PANEL DESCRIPTION



*The assigned function may differ, depending on the presetting. Ask your dealer or the transceiver’s administrator for details.

FUNCTION DISPLAY



1 ICON AREA
Displays the icons, as shown below.

	Displays the relative receive signal strength level.
	Displayed while transmitting a signal.
	Displayed while the channel is busy (receiving).
LOW	Displayed when the low output power is selected.
	Displayed when the Shift function is ON. The user can use a Dealer Assignable key's secondary function in the Shift mode. Ask your dealer for details.
	Displayed when the channel is in the audible (unmuted) mode.
	Blinks after messages (Message or Status Message) have been received.
	Displayed when a matching signal is received, depending on the presetting.
	- Blinks while scanning. - Displayed when a scan is paused.

	Displayed when the channel is selected as a scan target channel.
	- Displayed when the Encryption function is ON. - Blinks when decoding an encrypted signal.
	- Displayed when valid position data is received. - Blinks when searching for satellites.
	- Blinks when the Bluetooth function is ON. - Displayed when the transceiver is paired with a Bluetooth device. ① Installation of the optional UT-137A Bluetooth unit is required to use a Bluetooth device with the transceiver. Ask your dealer or the transceiver’s administrator for details.

2 ALPHANUMERIC READOUT
Displays messages such as channel text.

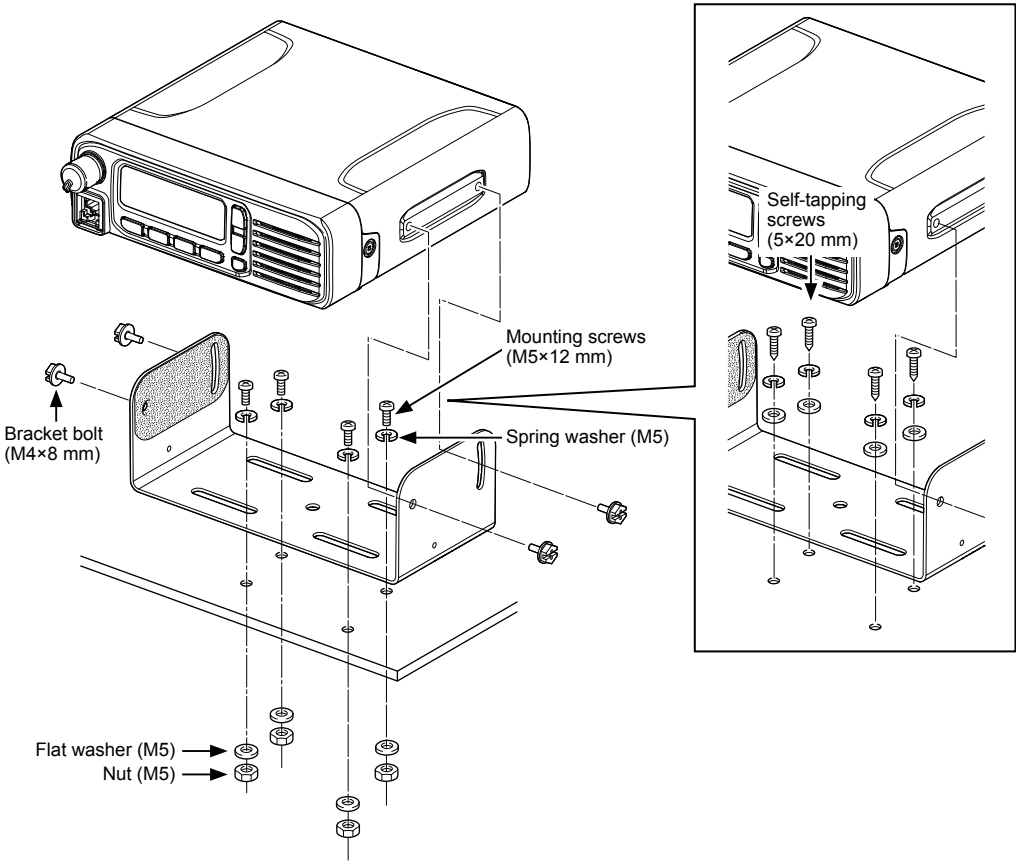
3 DEALER ASSIGNABLE KEY ICONS
Displayed while the function assigned to [P1], [P2], [P3], or [P4] is operating.
① May not be displayed, depending on the assigned function.

MOUNTING THE TRANSCEIVER

Mount the transceiver on a flat surface using the mounting bracket supplied with your transceiver.

- Drill 4 holes on a flat surface where you want to install the mounting bracket.
① When using the supplied nuts: Approximately 5.5 ~ 6 mm (d)
① When using the supplied self-tapping screws: Approximately 2 ~ 3 mm (d)
- Attach the mounting bracket on the flat surface using the supplied screws, nuts, and washers.
- Attach the transceiver to the mounting bracket using the supplied bracket bolts.

Mounting example:



BASIC OPERATION

◇ Turning ON or OFF the transceiver

- Hold down [ϕ] for 1 second to turn ON or OFF the transceiver.

NOTE: Entering the password may be required to turn ON the transceiver, depending on the presetting. Ask your dealer or the transceiver’s administrator for details.

◇ Receiving

- Push [Up] or [Down] to select a channel.
 - is displayed while receiving.
 - ① Rotate [VOL] to adjust the audio output level to a comfortable listening level.

◇ Transmitting

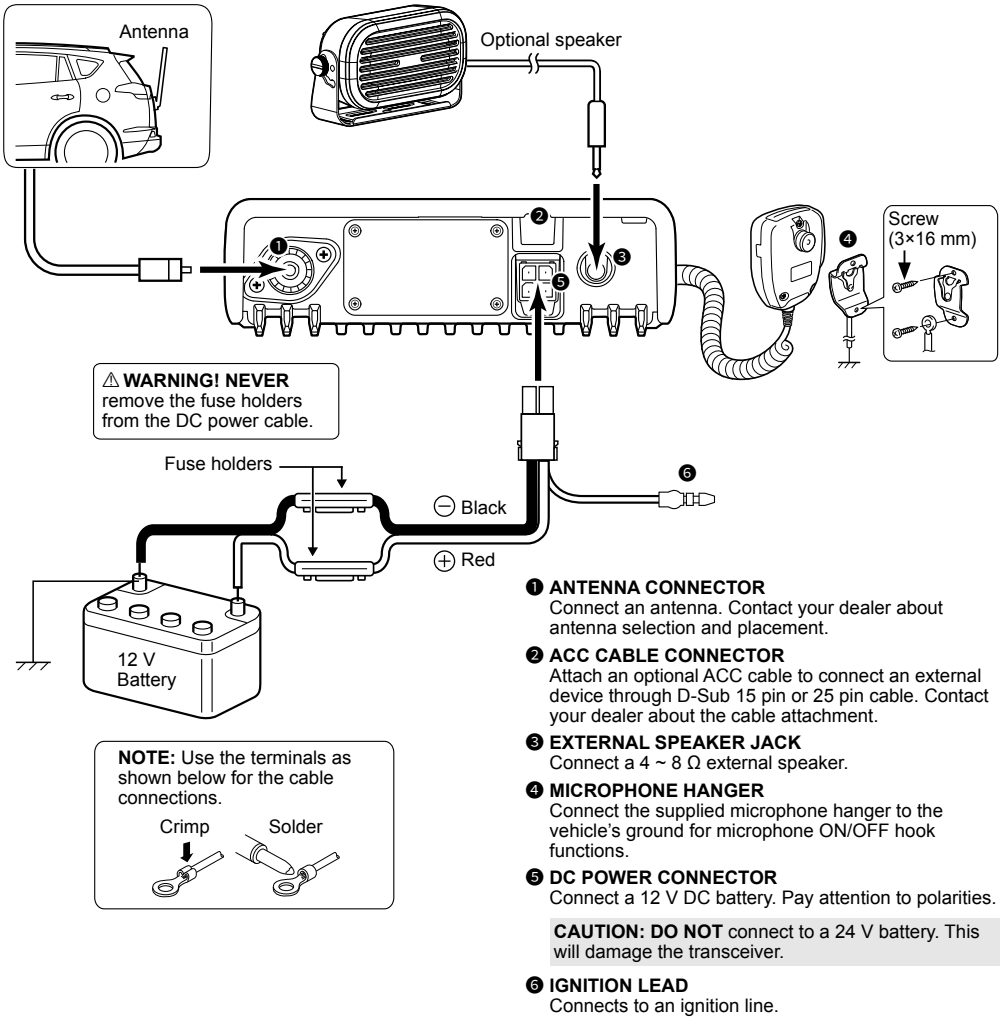
CAUTION: DO NOT transmit without an antenna.

- Wait until the channel is clear to avoid interference.
- While holding down [PTT], speak at your normal voice level.
 - is displayed while transmitting.
- Release [PTT] to receive.

IMPORTANT:

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

CONNECTIONS



- 1 ANTENNA CONNECTOR**
Connect an antenna. Contact your dealer about antenna selection and placement.
- 2 ACC CABLE CONNECTOR**
Attach an optional ACC cable to connect an external device through D-Sub 15 pin or 25 pin cable. Contact your dealer about the cable attachment.
- 3 EXTERNAL SPEAKER JACK**
Connect a 4 ~ 8 Ω external speaker.
- 4 MICROPHONE HANGER**
Connect the supplied microphone hanger to the vehicle’s ground for microphone ON/OFF hook functions.
- 5 DC POWER CONNECTOR**
Connect a 12 V DC battery. Pay attention to polarities.
CAUTION: DO NOT connect to a 24 V battery. This will damage the transceiver.
- 6 IGNITION LEAD**
Connects to an ignition line.

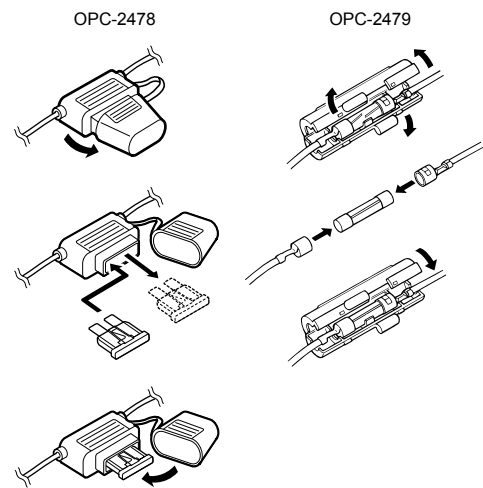
ANTENNA

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

REPLACING FUSES

Fuses are installed in the supplied DC power cable. If a fuse blows, track down the source of the problem, repair it, and replace the damaged fuse with a new rated one.
① The shape of fuses and its cases are different, depending on the supplied DC power cable.

NOTE: Use only specified fuses (10 A or 20 A).
25 W transceiver: 10 A, 45 W and 50 W transceivers: 20 A



Fuse Coding explanation:

OPC-2478	
Fuse Coding:	FUSE 32 V 20 A
Fuse Voltage Rating:	32 Volts
Fuse Current Rating:	20 Amperes
OPC-2479	
Fuse Coding:	FUSE 250 V 10 A
Fuse Voltage Rating:	250 Volts
Fuse Current Rating:	10 Amperes