



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for ICOM IC-F310. You'll find the answers to all your questions on the ICOM IC-F310 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual ICOM IC-F310**  
**User guide ICOM IC-F310**  
**Operating instructions ICOM IC-F310**  
**Instructions for use ICOM IC-F310**  
**Instruction manual ICOM IC-F310**

**ICOM<sup>®</sup>**

**INSTRUCTION MANUAL**

**SmarTrunk II<sup>™</sup>**  
**Compatible**

VHF TRANSCEIVER

**IC-F310**  
**IC-F320**

UHF TRANSCEIVER

**IC-F410**  
**IC-F420**

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.**



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**Manual abstract:**

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

Versions of the IC-F310/F320/F410/F420 which display "CE" on the serial number seal, comply with the essential requirements of the 89/336/EEC directive for Electromagnetic Compatibility. SmarTrunk IITM is a Trademark of SmarTrunk Systems, Inc. i TABLE OF CONTENTS DO NOT use or place the transceiver in areas with temperatures below 30°C or above +60°C or, in areas subject to direct sunlight, such as the dashboard. IMPORTANT ..

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*..... @@@@8111111111 AVOID operate 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. PANEL DESCRIPTION ..*

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*... 15 2 OPERATION .....*

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... 68 *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.* 3 **CONNECTION AND MAINTENANCE ..**

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@@@2) FUNCTION DISPLAY (P. 2) CH UP/DOWN KEYS [ ]/[ ] (P. 3) MICROPHONE CONNECTOR (P. 2) PROGRAMMABLE FUNCTION KEYS [P0],[P1],[P2],[P3] (P. 3) POWER SWITCH (P. @@@@ @w BUSY INDICATOR Appears while the channel is busy. e BELL INDICATOR Appears or blinks when the specified 5-tone call is received. r AUDIBLE INDICATOR Appears when the channel is in the 'Audible' condition (unmute condition). t ALPHANUMERIC DISPLAY NOTE: When the alphanumeric display blinks transmitting becomes impossible. In this case check that the antenna is not mismatched or that DC battery voltage has not dropped below 8 V.

2 MICROPHONE CONNECTOR Connect the supplied microphone or optional DTMF microphone for SmarTrunk IITM operation here. NEVER connect other 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 off. · Sets to 'Inaudible' condition (mute condition) when hung on. · Sets to 'Audible' condition (unmute condition) when off. 1 PANEL DESCRIPTION PRIORITY CHANNEL KEYS Select priority A or priority B channel with each push. BANK KEY Select a bank (a group of 16 channels).

· When the optional UT-105 is installed, push one or more times to select a channel bank for conventional channels or SmarTrunk IITM channels. SCAN START/STOP KEY Push this key to start scanning; and push again to stop. NOTE: Place the microphone on hook to start scanning. Take the microphone off hook to stop scanning. Push and hold this key to indicate the scan group, then push to select the desired group. TAG I Programmable function keys The following functions can be assigned to [P0], [P1], [P2], [P3], [ ] and [ ] 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 DN PRI A PRI B BANK SCAN CH UP AND DOWN KEYS · Select an operating channel. · Select a transmit code channel after pushing the [TX CH] key.

· Select a DTMF channel after pushing the [DTMF] key. @@@@ CAL A and CAL B), [MONI] and [EMER] keys.

@@@@@DTMF CHANNEL SELECT KEY Push this key to select a DTMF channel. @@ Push and hold this key to transmit the selected DTMF code. @@@@ Push this key, then push [ ]/[ ] for selection. · Up to 5 ID's are memorized. Push and hold this key to erase all memorized IDs. LIGHT Push to select the backlight condition. ON :Turns ON the backlight continuously. OFF :Turns OFF the backlight.

AUTO :Turns ON/OFF depending on the ACC socket pin 1 voltage. @@@@ are nearby. @@@@ and an opening message may appear. w If the transceiver is programmed for a start up passcode, input digit codes as directed by your System operator. Input your password if this display appears.

NON-BANK TYPE: Push the [ ]/[ ] keys to select the desired operating channel, in sequence; or, NECTION AND MAINTENANCE Antenna I Rear panel and connection q w t Optional cable (OPC-617) r e red: + Supplied DC power cable black: \_ Optional speaker (SP-10) 9 CONNECTION AND MAINTENANCE / ANTENNA CONNECTOR Connects to an antenna. Ask your Dealer about antenna selection and placement. (See p. @@ (See p. 2) < DC POWER RECEPTACLE Connects to a 12 V DC battery.

Pay attention to polarities. NEVER connect to a 24 V battery. This could damage the transceiver. @@@@ @1 set e Microphone hanger cable . @4 i Self-tapping screw (M5×20) .....

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... 4 o Flat washer .....

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4 !0 Spring washer .....

..... 4 !1 Nut .....

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4 !2 Fuse .....

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..... @! y Bracket bolt .  
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..... @@@@Please read the following instructions carefully. @@Unscrew the 4 screws, then remove the bottom cover. Install the unit as shown in the diagram below.

@@Ask your Dealer about antennas and the best places to mount them. I Fuse replacement Two fuses are 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

IC-F310/F410: 15 A, IC-F320/F420: 20 A OPTIONAL CABLE PIN ASSIGNMENT trewq q LCD backlit cont. IN w AF OUT e Det.

AF OUT r Mod. IN t PTT control IN y Horn drive cont. OUT u AF GND i Det. AF GND o Mod. GND I Cleaning If the transceiver becomes dusty or dirty, wipe it clean with a dry, soft cloth.

AVOID the use of solvents such as benzene or alcohol, as they may damage transceiver surfaces. oiuy 12 4 OPTIONAL SmarTrunk IITM OPERATION I SmarTrunk IITM operation These features are enabled by a Dealer or System Operator and may not be available in your system.



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Contact your Dealer for details. I SmarTrunk IITM and conventional modes This transceiver is capable of SmarTrunk IITM functions. The optional UT-105 allows communication in conventional channels or SmarTrunk IITM channels. Select a channel bank for SmarTrunk IITM before trunking operation. · Push [BANK] one or more times to select a channel bank for conventional channels or SmarTrunk IITM channels. · Scanning starts when a channel bank for SmarTrunk IITM is selected. · Contact your Dealer for channel bank details. D Placing a telephone call Enter the phone number followed by [1], [M].

· A high-pitched beep indicates that the number is accepted. · When the called party answers, push the [PTT] switch to talk, and release it to listen. D Calling another local system subscriber Enter the subscriber number followed by [3], [M]. · A high-pitched beep indicates that the number is accepted. · You hear ringing, then two short beeps when the subscriber answers. · If the other subscriber is on another call or ouave a lower 'average' output power and the perceived risk is even lower. This warning symbol indicates that this equipment operates in non-harmonised frequency bands and/or may be subject to licensing conditions in the country of use. Be sure to check that you have the correct version of this radio or the correct programming of this radio, to comply with national licensing requirement. <Intended Country of Use> I GER I AUT I GBR I IRL I FRA I NED I BEL I LUX I ESP I POR I ITA I GRE I SWE I DEN I FIN 55-#54,58,59/ 66-#54,59 A -5458D-4EU DECLARATION OF CONFORMITY We Icom Inc. @@@@The maximum RF power available from this device is 25 watts.

For vehicle installations it is recommended that the antenna be positioned on the roof, centrally if possible. The roof will permit the antenna to operate more efficiently as well as screen the occupants from excessive electromagnetic fields. Boot mount or on-glass antenna are best avoided. The transmitter should neither be continuously operated for long periods if any person is within a distance of 2 metres of the antenna, nor operated at all if any person is touching the antenna. In all cases any possible risk depends on the transmitter being activated for long periods.

(actual recommendation limits are specified as an average of 6 minutes) Normally the transmitter is not active for long periods of time. Some radio licenses will require that a timer circuit automatically cuts the transmitter after 12 minutes etc. Similarly some types of transmitter, SSB, CW, AM, etc. have a lower 'average' output power and the perceived risk is even lower. This warning symbol indicates that this equipment operates in non-harmonised frequency bands and/or may be subject to licensing conditions in the country of use.

Be sure to check that you have the correct version of this radio or the correct programming of this radio, to comply with national licensing requirement.

<Intended Country of Use> I GER I AUT I GBR I IRL I FRA I NED I BEL I LUX I ESP I POR I ITA I GRE I SWE I DEN I FIN 56-#57,58,59/ 67-#58 A-5458D-5EU .



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