



INSTRUCTION MANUAL

HF TRANSCEIVER

IC-F7000



Icom Inc.

FOREWORD

Thank you for purchasing this Icom product. The IC-F7000 HF TRANSCEIVER is designed and built with Icom's superior technology and craftsmanship. With proper care, this product should provide you with years of trouble-free operation.

We want to take a couple of moments of your time to thank you for making the IC-F7000 your radio of choice, and hope you agree with Icom's philosophy of "technology first." Many hours of research and development went into the design of your IC-F7000.

◇ FEATURES

- *ALE (Automatic Link Establishment)/Selcall capability*
- *Digital Signal Processor (DSP) allows flexible filter selection*
- *Full-dot matrix LCD for variety of information indication*
- *PC connection capability for remote control*

PRECAUTION

⚠ WARNING RF EXPOSURE! This device emits Radio Frequency (RF) energy. Extreme caution should be observed when operating this device. If you have any questions regarding RF exposure and safety standards please refer to the Federal Communications Commission Office of Engineering and Technology's report on Evaluating Compliance with FCC Guidelines for Human Radio Frequency Electromagnetic Fields (OET Bulletin 65).

⚠ WARNING HIGH VOLTAGE! NEVER attach an antenna or internal antenna connector during transmission. This may result in an electrical shock or burn.

⚠ NEVER apply AC to the [DC13.8V] jack on the transceiver front panel. This could cause a fire or damage the transceiver.

⚠ NEVER apply more than 16 V DC, such as a 24 V battery, to the [DC13.8V] jack on the transceiver front panel. This could cause a fire or damage the transceiver.

⚠ NEVER let metal, wire or other objects touch any internal part or connectors on the front panel of the transceiver. This may result in an electric shock.

⚠ NEVER expose the transceiver to rain, snow or any liquids.

AVOID using or placing the transceiver in areas with temperatures below -10°C ($+14^{\circ}\text{F}$) or above $+60^{\circ}\text{C}$ ($+140^{\circ}\text{F}$). Be aware that temperatures on a vehicle's dashboard can exceed 80°C ($+176^{\circ}\text{F}$), resulting in permanent damage to the transceiver if left there for extended periods.

IMPORTANT

READ THIS INSTRUCTION MANUAL CAREFULLY before attempting to operate the transceiver.

SAVE THIS INSTRUCTION MANUAL. This manual contains important safety and operating instructions for the IC-F7000.

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 or personal injury, fire or electric shock.

AVOID placing the transceiver in excessively dusty environments or in direct sunlight.

AVOID placing the transceiver against walls or putting anything on top of the transceiver. This will obstruct heat dissipation.

Place unit in a secure place to avoid inadvertent use by children.

During mobile operation, **DO NOT** operate the transceiver without running the vehicle's engine. When the transceiver's power is ON and your vehicle's engine is OFF, the vehicle's battery will soon become exhausted.

Make sure the transceiver power is OFF before starting the vehicle. This will avoid possible damage to the transceiver by ignition voltage spikes.

BE CAREFUL! The rear panel will become hot when operating the transceiver continuously for long periods.

USE Icom microphones only (supplied or optional). Other manufacturer's microphones have different pin assignments, and connection to the IC-F7000 may damage the transceiver.

DO NOT use chemical agents such as benzine or alcohol when cleaning, as they can damage the transceiver surface.

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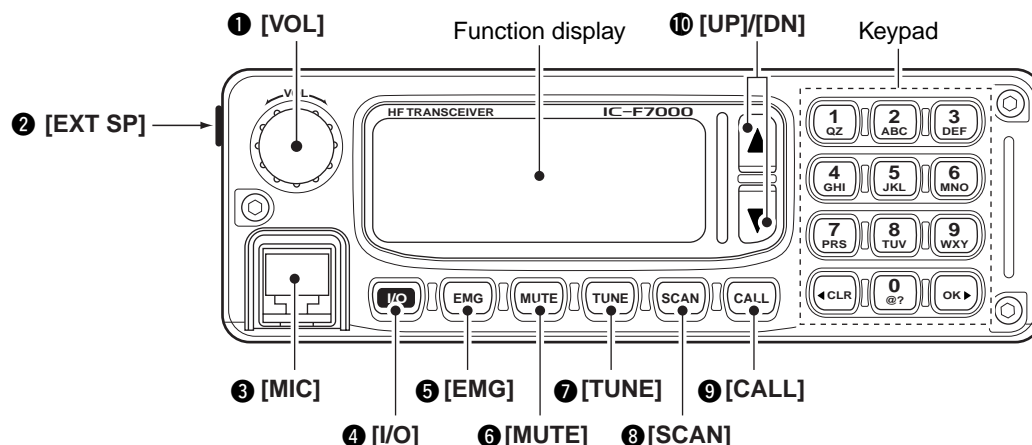


N33

Versions of the IC-F7000 which display the "N33" symbol on the serial number seal, comply with Standard Australia Specification No. AS/NZS 4770: 2000.

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■ Front panel— Controller



① VOLUME [VOL] (p.12)

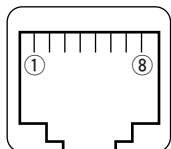
Adjusts the audio output level.

② SPEAKER JACK [EXT SP]

Connects the supplied external speaker, SP-25.

③ MICROPHONE CONNECTOR [MIC]

Connects the microphone, supplied with the transceiver.



- ① +8 V DC output (Max. 10 mA)
- ② Channel up/down
- ③ Mic backlight control line
- ④ PTT
- ⑤ GND (microphone ground)
- ⑥ MIC (microphone input)
- ⑦ GND
- ⑧ Data IN

④ POWER KEY [I/O]

- ➔ While transceiver's power is OFF:
 - Push to turn power ON.
 - Turn the DC power supply ON in advance.
- ➔ While transceiver's power is ON:
 - Push momentarily to enter the *Quick set mode*.
 - Push again to exit the *Quick set mode*.
 - Push for 1 sec. to turn power OFF.

⑤ EMERGENCY KEY [EMG]

- ➔ Push to enter the RFDS channel group.
 - Push again to return the normal operating mode.
- ➔ Push for 2 sec. to transmit the RFDS Call.
 - 1st registered channel is selected automatically when display is indicated other than the RFDS channel group.

NOTE: The RFDS call is available for AUS version only. This key is assigned as Emergency Selcall for other versions. The operation of Emergency Selcall is same as RFDS call.

⑥ MUTE KEY [MUTE]

Push to select the mute types. Available types are voice mute, signal level mute (level 1—100), call mute or mute OFF.

- When select the mute type, transceiver emits different confirmation beep for each type.
- OFF—1 long beep,
- Call mute—1 short beep,
- Signal level mute—2 short beeps,
- Voice mute—3 short beeps

⑦ TUNER KEY [TUNE] (pgs.12, 14)

- ➔ Push for 1 sec. to start manual tune the optional automatic antenna tuner.
 - "Tuning" appears while tuning.
 - When the tuner cannot tune the antenna, the tuning circuit is bypassed automatically after 20 sec.
- ➔ Push momentarily to toggle the optional automatic antenna tuner (AT-140 only) ON and OFF (bypass).

⑧ SCAN KEY [SCAN]

Push to start and stop the scanning.

⑨ CALL KEY [CALL]

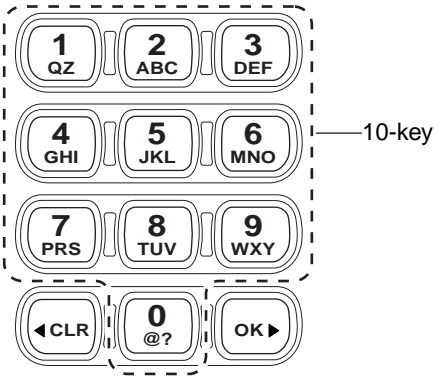
- ➔ Push to enter the Call menu.
 - Push again to exit the Call menu.
- ➔ Push for 1 sec. to transmit the Call.

⑩ UP/DOWN KEYS [▲]/[▼]

Selects the operating channel and the items of the set mode, etc.

◆ Keypad

- Inputs numeral for the TEL number, ID number, channel number input, etc.
- Inputs numeral and alphabet (some symbol) for the message input of the Page call function or channel comment input, etc.



[CLR]

- Push momentarily to move the cursor backward.
- Push momentarily to decrease the setting value for the set mode.
- Push momentarily to indicate receive message when standby condition.



[OK]

- Push to move the cursor forward.
- Push to increase the setting value for the set mode.
- Push to indicate receive message when standby condition.
- Push to fix input of channel comments.

• Available characters

KEY	INPUT		KEY	INPUT	
	CH	COMMENTS		CH	COMMENTS
1 QZ	1	1 Q Z q z (space)	6 MNO	6	6 M N O m n o
2 ABC	2	2 A B C a b c	7 PRS	7	7 P R S p r s
3 DEF	3	3 D E F d e f	8 TUV	8	8 T U V t u v
4 GHI	4	4 G H I g h i	9 WXY	9	9 W X Y w x y
5 JKL	5	5 J K L j k l	0 @?	0	0 - / . ' () * + < = > @

Count on us!

