IMPORTANT

READ ALL INSTRUCTIONS carefully and completely before using the transceiver.

SAVE THIS INSTRUCTION MANUAL. This manual contains important safety and operating instructions for the **IC-F4TR**.

EXPLICIT DEFINITIONS

NEVER allow the antenna to come close to, or touch, exposed body parts, especially the face or eyes while transmitting.

NEVER disassemble the transceiver. incorrect reassemble may result in a fire hazard or electric shock.

NEVER operate the transceiver near unshielded electrical blasting caps or in an explosive area.

AVOID the use of chemical agents such as benzene or alcohol when cleaning—use a water-dampened cloth only.

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

SUPPLIED ACCESSORIES

① Battery pack (comes attached to the transceiver)
② Flexible antenna
③ Belt clip
④ 1922 A-REAR SHEET

4 SPECIFICATIONS AND OPTIONS

4-1 Specifications

• GENERAL

Frequency coverage (MHz)	: 400–430, 450–490, 480–512
Mode	: 16K0F3E (25 kHz)
	11K0F3E (12.5 kHz)
Usable temperature range	: –30˚C to +60˚C; –22°F to +140°F
Dimensions (proj not incl.)	: 57(W)×140(H)×37 (D) mm
	; 2¼(W)×5½(H)×1$^{15}/_{32}$(D) in
Weight (with BP-196)	: 390 g; 13.8 oz

• TRANSMITTER

Output power	: 4 W

• RECEIVER

Sensitivity (12 dB SINAD)	: 0.3 µV
Intermodulation rejection ratio	: 75 dB typ.
Spurious response rejection	: 70 dB typ.
Adjacent channel selectivity	: 70 dB typ. (25 kHz)
	65 dB typ. (12.5 kHz)
Audio output power	: 500 mW (at 5% distortion with an 8 Ω load)

All stated specifications are subject to change without notice or obligation.

4-2 Options

• **HM-46/HM-54/HM-75A** SPEAKER-MICROPHONES
Combination speaker-microphone that provides convenient operation while hanging the transceiver from your belt clip.
• **BC-119** DESKTOP CHARGER **+ AD-81** CHARGER ADAPTER
Used for rapid charging of battery packs. Charging time: 1.5 to 2 hours. An AC adapter is supplied with the chargers (depending on version).
• **BC-121** MULTI-CHARGER **+ AD-81** CHARGER ADAPTER **+ BC-124** AC ADAPTER
Rapidly charges of up to 6 battery packs (six AD-81's are required) at once. Charging time: 1.5 to 2 hours.
• **BC-133** DESKTOP CHARGER
Regularly charges battery pack with/without transceiver. The AC adapter, BC-122, is additionally required. Charging time: approx. 15 hours
• **BC-110A/D/V** WALL CHARGER
Used for charging via a domestic AC wall socket.
•**CP-12L** CIGARETTE LIGHTER CABLE
Used for charging via a vehicle's cigarette lighter socket (12 V).
•**OPC-254L** DC POWER CABLE
Used for charging with an external power supply.
•**BP-194** BATTERY CASE
Takes eight (8) AA (R6) size batteries. External DC-jack on the transceiver can be used to charge the Ni-Cd battery cells.
•**SP-13** EARPHONE
Provides clear audio in noisy environments.

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Printed in Japan

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Icom Inc.

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

UHF TRUNKED RADIO
IC-F4TR

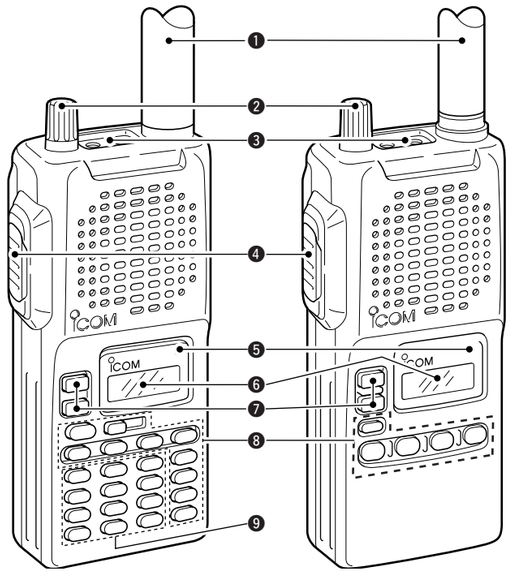
INSTRUCTION MANUAL

ICOM

Count on us!

1 PANEL DESCRIPTION

IC-F4TR with keypad **IC-F4TR without keypad**



❶ ANTENNA CONNECTOR
Connects the supplied antenna.

❷ VOLUME CONTROL [VOL]
Turns power ON and adjusts the audio level.

❸ [SP]/[MIC] JACK
Connect optional speaker-microphone, or headset.

❹ PTT SWITCH [PTT]
Transmits during push; receives during release.

❺ ACTIVITY LED
Lights red while transmitting.

❻ FUNCTION DISPLAY
Displays the preset user information.

❼ CHANNEL UP/DOWN KEYS [▲]/[▼]
Push either switch to change the operating channel.

❽ DEALER PROGRAMMABLE KEYS
[P0]/[P1]/[P2]/[P3]/[A]*/[B]*/[C]*/[D]*/[◀]*/[–]
Can each be programmed for one of several functions by your Icom dealer or system operator.

◇ Programmable key reference.

[–]		[◀]*	
[P0]		[A]*	
[P1]		[B]*	
[P2]		[C]*	
[P3]		[D]*	

*10-keypad type only.

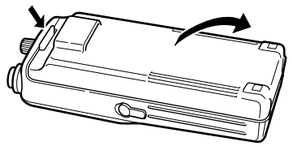
❾ KEYPAD
Used to enter DTMF codes, the operating channel, etc.

2 GETTING STARTED

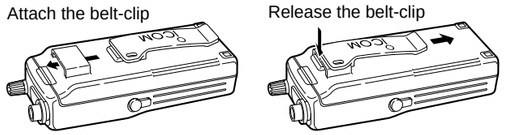
2-1 Accessory attachment

◇ BATTERY PACK
Before attaching, or replacing the battery pack, the volume control **MUST** be rotated fully counterclockwise, until a click is heard, to turn the power OFF.

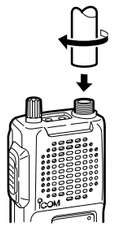
- **TO ATTACH** the battery pack to the transceiver, mate the notched ends of the battery pack and the transceiver, and push the battery pack until it clicks into place.
- **TO REMOVE** the battery pack from the transceiver, push and hold the battery release downwards, then lift up the battery pack.



◇ BELT CLIP
Attach the belt clip to the transceiver as illustrated below.



◇ ANTENNA
The antenna screws onto the transceiver as illustrated as at right.



2-2 Turning POWER ON

Rotate the volume control to the 12 o'clock position.
- A power-up alert tone sounds for about 2 sec. and an opening message may appear. (Depend on pre-setting.)
- Then the LCD shows user information. (depending on pre-setting).

NOTE: If the power-up alert tone does not sound or a channel number does not appear on the display, turn the transceiver OFF, check the battery, then turn the transceiver back ON. If the power-up tone still does not sound or a channel number does not appear, charge the battery or replace it.

3 BATTERY PACKS AND BATTERY CASE

3-1 Caution

NEVER incinerate used battery packs or battery cells. Internal battery gas may cause an explosion.

NEVER immerse the battery pack or the battery case in water. If the battery pack or case becomes wet, be sure to wipe it dry **BEFORE** attaching it to the transceiver.

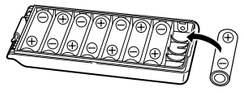
NEVER short terminals of the battery pack or battery case. Also, current may flow into nearby metal objects so be careful when placing battery packs in handbags, etc.

If your battery pack seems to have no capacity even after being charged, completely discharge it by leaving the power ON overnight. Then, fully charge the battery pack again. If the battery pack still does not retain a charge (or very little), a new battery pack must be purchased.

◇ Recycling information (U.S.A. only)
The product that you have purchased contains a rechargeable battery. The battery is recyclable. At the end of its life, under various state and local laws, it may be illegal to dispose of this battery into the municipal waste stream. Call 1-800-822-8837 for battery recycling options in your area or contact your dealer.

3-2 Battery case

When using the optional BP-194 attached to the transceiver, install 8 AA (R6) size Alkaline or Ni-Cd batteries as illustrated as at right.



When installing Ni-Cd batteries:
- **Make sure** all cells are the same brand, type and capacity.
- **Never** mix old and new batteries.
  Either of the above may cause a fire hazard or damage the transceiver.

When installing dry or alkaline cells:
- Never connect DC power to the transceiver. Such a connection always charges the installed batteries and will damage the transceiver.

◇ LOW BATTERY INDICATION
- When ▬ appears, battery capacity is becoming low and transmitting is impossible.
- When ▬ flashes, battery capacity is nearly exhausted.

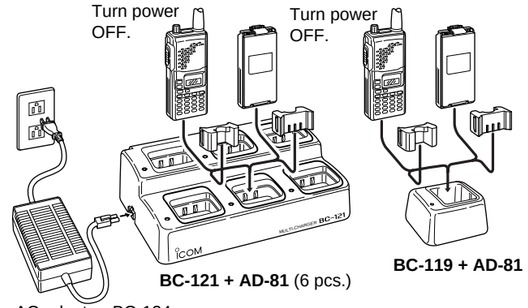
3-3 Battery charging

Prior to using the transceiver for the first time, the battery pack must be fully charged for optimum life and operation.

CAUTION: To avoid damage to the transceiver, turn it OFF while charging.

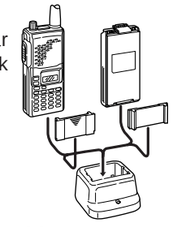
- Recommended temperature range for charging: +10°C to +40°C (+50°F to +104°F)
- Use the Icom's charger (BC-119/BC-121 for rapid charging, BC-110, and BC-133 for regular charging) only. **NEVER** use another manufacturers' chargers.
- An optional cable OPC-254L (for 13.8 V power source) or CP-12L (for 12 V cigarette lighter socket) can be used in-stead of the AC adapters of the supplied charger.

◇ With the BC-119 or BC-121
The optional BC-119 and BC-121 provide rapid charging of optional Ni-Cd battery pack/s.
The following are additionally required:
- Only one AD-81 for the BC-119; six AD-81s for the BC-121.
- An AC adapter (may be supplied with the BC-119 depending on version; The optional AC adapter, BC-124, for the BC-121).



When using the BC-119 in the vehicle: If the charge indicator flashes orange, the vehicle battery voltage is low and charging may not be performed. Check the vehicle battery voltage in this case. If the charge indicator flashes red, there may be a problem with the battery pack (or charger). Re-insert the battery pack or contact your dealer.

◇ With the BC-133
The optional BC-133 provides regular charging of optional Ni-Cd battery pack with/without transceiver.
The following are additionally required:
- The optional AC adapter, BC-122.



◇ With the BC-110 or an optional cables

CAUTION: Only Ni-Cd batteries can be charged. **NEVER** connect a wall charger when dry or Alkaline cells are installed in the BP-194 BATTERY CASE— the transceiver and/or battery case may be damaged.

CAUTION: Even if the power source has enough capacity, the [CHARGE] jack can be used for charging purposes only. You can not operate the transceiver without an internal power source.

Connect the optional BC-110, CP-12L or OPC-254L to the [CHARGE] jack on the transceiver as illustrated below. Be careful of battery overcharging as the connected battery is charged simultaneously..
- Approx. charging period: 15 hrs.
- **DO NOT** turn power ON while connecting the BC-110A/D/V. Current capacity is insufficient.
- **AVOID** over charging. The charging period should be less than 48 hours.