○ICOM

INSTRUCTION MANUAL

FM TRANSCEIVERS

IC-T8A
IC-T8E

Icom Inc.
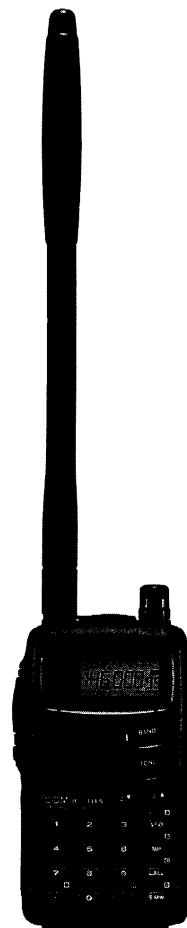
FOREWORD

Thank you for purchasing the **IC-T8A** or **IC-T8E**. This product represents Icom's state-of-the-art handheld transceiver technology. The IC-T8A/E features tri-band capabilities (VHF, UHF operation and 50 MHz reception), numerous functions and superior performance—in a package as compact as that of a single bander. With proper care this Icom product will provide years of trouble-free operation.

IMPORTANT

READ ALL INSTRUCTIONS carefully and completely before using the transceiver.

SAVE THIS INSTRUCTION MANUAL—This instruction manual contains important operating instructions for the IC-T8A and IC-T8E.

CE The IC-T8E complies with essential requirements of the 89/336/EEC directive for Electromagnetic Compatibility. This compliance is based on conformity with the ETSI specification ETS300 684 (EMC product standard for Commercially Available Amateur Radio Equipment).

CAUTIONS

⚠**WARNING! NEVER** hold the transceiver so that the antenna is very close to, or touching exposed parts of the body, especially the face or eyes, while transmitting. The transceiver will perform best if the microphone is 5 to 10 cm (2 to 4 in) away from the lips and the transceiver is vertical.

⚠**WARNING! NEVER** operate the transceiver with a headset or other audio accessories at high volume levels. Hearing experts advise against continuous high volume operation. If you experience a ringing in your ears, reduce the volume level or discontinue use.

NEVER connect the transceiver to an AC outlet or to a power source of more than 16 V DC. Such a connection will damage the transceiver.

NEVER connect the transceiver to a power source that is DC fused at more than 5 A. Accidental reverse connection will be protected by this fuse, higher fuse values will not give any protection against such accidents and the transceiver will be ruined.

NEVER attempt to charge alkaline or dry cell batteries. Be aware that external DC power connections will charge batteries inside the battery case. This will damage not only the battery case but also the transceiver.

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DO NOT push the PTT when not actually desiring to transmit.

DO NOT allow children to play with any radio equipment containing a transmitter.

DO NOT operate the transceiver near unshielded electrical blasting caps or in an explosive atmosphere.

AVOID using or placing the transceiver in direct sunlight or in areas with temperatures below −10°C (+14°F) or above +60°C (+140°F).

The use of non-Icom battery packs/chargers may impair transceiver performance and invalidate the warranty.

Even when the transceiver power is OFF, a slight current still flows in the circuits. Remove the battery pack or case from the transceiver when not using it for a long time. Otherwise, the battery pack or installed dry cell batteries will become exhausted.

UNPACKING

Accessories included with the transceiver:

Qty.

① Battery pack (BP-199 or BP-200) or
   battery case (BP-197) attached to the transceiver 1
② Antenna (S6270B) 1
③ Handstrap 1
④ Belt clip 1
⑤ Wall charger (BC-110A/D/V)* 1
*Not supplied with some versions.

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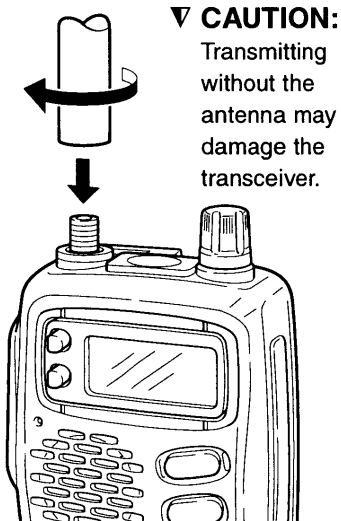
◇ Antenna

Insert the supplied antenna into the antenna connector and rotate the antenna as shown in the diagram below.

Keep the jack cover attached when jacks are not in use to avoid bad contacts.

▼ CAUTION:
Transmitting without the antenna may damage the transceiver.
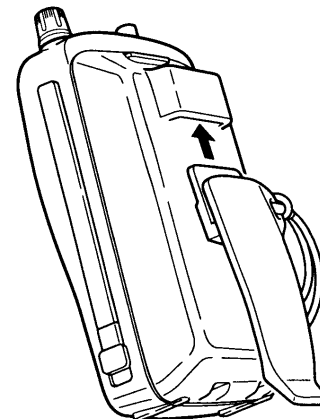

◇ Handstrap

Attach the handstrap to the belt clip, before attaching the belt clip to the transceiver, as below.
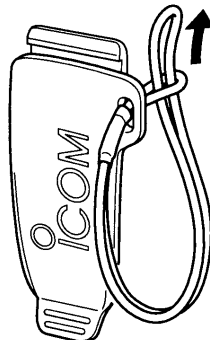
◇ Belt clip
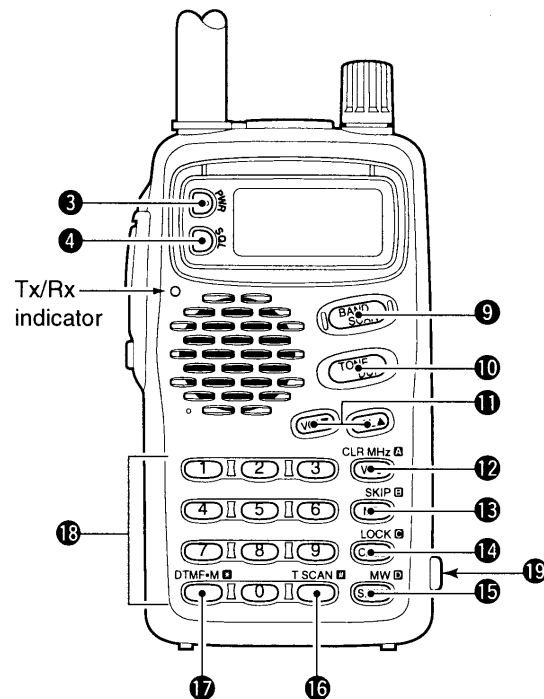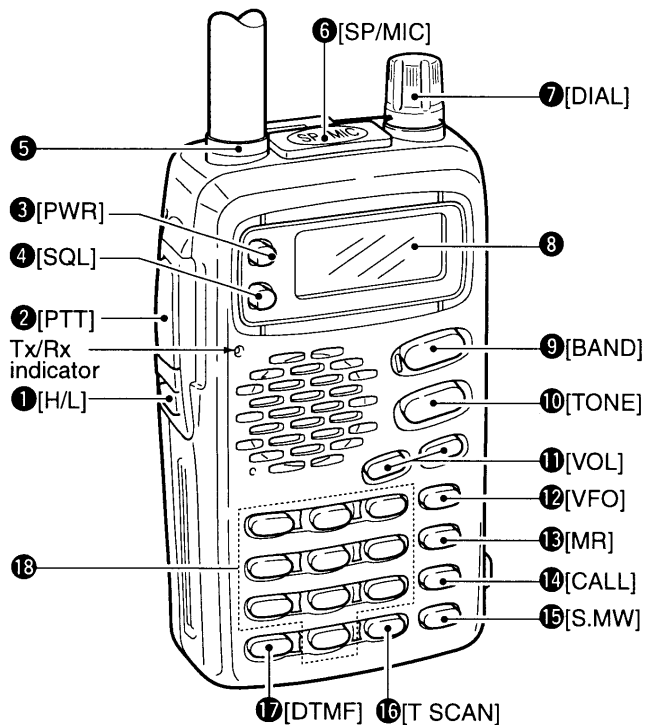
Attach the belt clip to the transceiver as illustrated below.

2 PANEL DESCRIPTION

■ Switches, controls, keys and connectors

❻[SP/MIC]

❼[DIAL]

❺

❸[PWR]

❹[SQL]

❷[PTT]

Tx/Rx indicator

❶[H/L]

❽

❾[BAND]

❿[TONE]

⓫[VOL]

⓬[VFO]

⓭[MR]

⓮[CALL]

⓯[S.MW]

⓲

⓱[DTMF] ⓰[T SCAN]

Tx/Rx indicator

❸

❹

❾

❿

⓫

CLR MHz Ⓐ

⓬

SKIP Ⓑ

⓭

LOCK Ⓒ

⓮

DTMF•M Ⓓ   T SCAN Ⓔ   MW Ⓕ

⓱   ⓰   ⓯

⓲

⓳

❶ OUTPUT POWER SWITCH [H/L(SET)] (p. 10)

SET
(H/L)

➡ Push to toggle between high and low output powers.
• "LOW" appears when low output power is selected.
➡ Push for 1 sec. to select set mode.

❷ PTT SWITCH [PTT] (p. 10)

Push and hold to transmit; release to receive.

❸ POWER SWITCH [PWR] (p. 8)

Push for 1 sec. to turn power on and off.

❹ SQUELCH SWITCH [SQL] (p. 10)

➡ Push and hold to temporarily open the squelch to listen to weak signals.
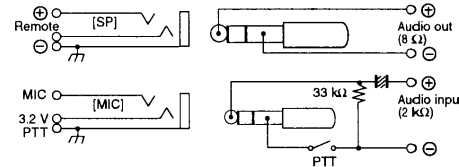➡ While pushing, rotate [DIAL] to set the squelch to "AUTO" or one of eight levels.

❺ ANTENNA CONNECTOR (p. 1)

Connects the supplied antenna.

❻ EXTERNAL SPEAKER AND MICROPHONE JACKS [SP/MIC]

Connect an optional speaker-microphone or headset, if desired. The internal microphone and speaker will not function when either is connected. (See p. 32 for options.)

◇ External connection

This connection does not apply when a condensor microphone is connected.

❼ TUNING DIAL [DIAL]

Rotate to select an operating frequency, select a memory channel, select set mode contents, change scan direction, etc.

❽ FUNCTION DISPLAY (p. 6)

Displays the operating frequency and other operating conditions.

❾ BAND SWITCH [BAND(SCAN)] (p. 9)

➡ Push to select a frequency band (except when in memory mode).
➡ Push for 1 sec. to start scanning.

❿ TONE SWITCH [TONE(DUP)]

➡ Push to activate the following functions in order:
• Subaudible tone encoder—"T" appears (p. 12).
• Pocket beep—"T SQL ((•))" appears (p. 23).
• Tone squelch—"T SQL" appears (p. 22).
• No tone operation—no indicator appears.
➡ Push for 1 sec. to select semi-duplex or simplex operation (p. 12).

2 PANEL DESCRIPTION

• "–DUP" appears during minus duplex operation; "DUP" appears during plus duplex operation; and no indication appears during simplex operation.

➥ For the European version only, while pushing [PTT], push this switch to transmit a 1750 Hz tone burst signal (p. 12).

⑪ VOLUME SWITCHES [VOL▲/VOL▼] (p. 10)

VOL▼
VOL▲ Push or push and hold to adjust the audio output.

⑫ VFO/CLEAR KEY [VFO(CLR/MHz)Ⓐ]

CLR MHz Ⓐ ➥ Push to select VFO mode (p. 8).
VFO ➥ Cancels some functions such as digit input before entry, scan, etc.

➥ Push and hold for 1 sec., then rotate [DIAL] to change the MHz digit (p. 21).

➥ While pushing [PTT], this key sends a DTMF "A."

⑬ MEMORY MODE KEY [MR(SKIP)Ⓑ]

SKIP Ⓑ ➥ Push to select memory mode (p. 10).
MR • "ᴹᴿ" appears while in memory mode.

➥ While in memory mode, push this key for 1 sec. to toggle the selected memory channel between a skip and non-skip channel (p. 21).

• "SKIP" appears when the channel is set as a skip channel.

➥ While pushing [PTT], this key sends a DTMF "B."

⑭ CALL MODE KEY [CALL(LOCK)Ⓒ]

LOCK Ⓒ ➥ Push to select the call channel (p. 15).
CALL • "C" appears when the call channel is selected.

➥ Push for 1 sec. to toggle the lock function on and off (p. 10).

• "🔒O" appears when the lock function is activated.

➥ While pushing [PTT], this key sends a DTMF "C."

⑮ SELECT MEMORY WRITE KEY [S.MW(MW)Ⓓ]

MW Ⓓ ➥ Push to enter memory select mode (p. 15).
S.MW • "ᴹᴿ" flashes and the [DIAL] can be used for channel selection (for memory writing or clearing).

➥ Push for 1 sec. to write the set contents into the selected memory channel (or VFO, call channel) (p. 15).

➥ Push, then push and hold this key while in memory select mode to erase the contents of the selected memory channel (p. 17).

➥ While pushing [PTT], this key sends a DTMF "D."

⑯ TONE SCAN KEY [T·SCANⒺ]

T SCAN Ⓔ ➥ Push for 1 sec. to start tone decode scan (p. 23); push momentarily to stop it.

• When a subaudible tone is detected, the tone frequency is displayed and overwrites the preprogrammed:

→ tone squelch frequency when the tone squelch is in use;

→ tone encoder (repeater tone) frequency when the

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Count on us!