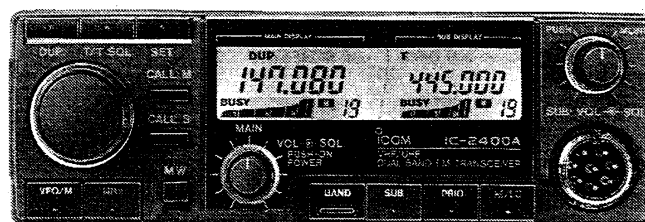# iCOM

DUAL BAND
FM TRANSCEIVER

IC-2400A
IC-2400E
IC-2500A
IC-2500E

Icom Inc.

CAUTIONS

Before using the transceiver, read all the instructions carefully and completely.

SAVE THIS INSTRUCTION MANUAL — This instruction manual contains important safety and operating instructions for the IC-2400A/E and IC-2500A/E.

NEVER connect the transceiver to an AC outlet. This will ruin the transceiver.

NEVER connect more than 16 V DC power to the transceiver. Check the source voltage before connecting the power cable.

NEVER allow children to touch the transceiver during operation.

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

AVOID using or storing the transceiver in places with temperatures below $-10°C$ ($+14°F$) or over $+60°C$ ($+140°F$).

DO NOT place the transceiver in excessively humid environments.

AVOID placing the transceiver in direct sunlight, such as on the dashboard.

AVOID placing the transceiver in excessively dusty environments.

BE CAREFUL! The heatsink may become hot when operating the transceiver for long periods.
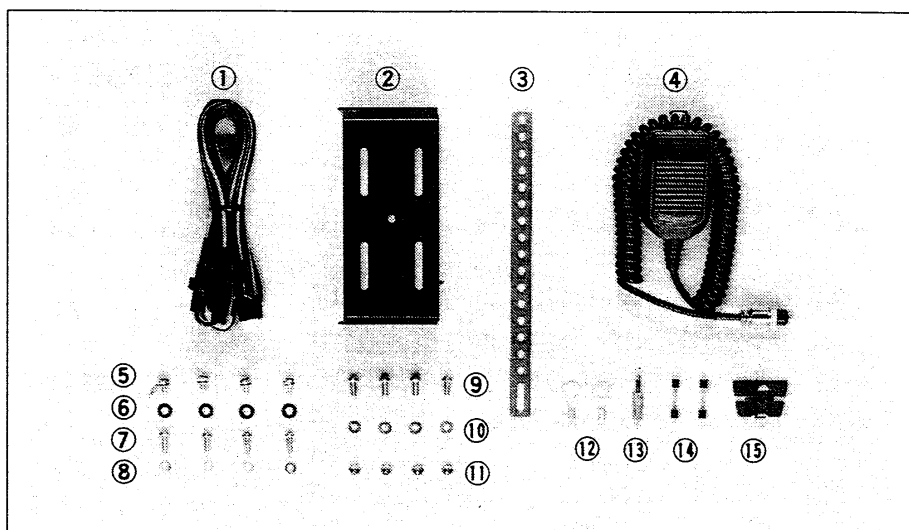
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FOREWORD

Thank you for purchasing the **IC-2400A/E** or **IC-2500A/E** **DUAL BAND FM TRANSCEIVER** from Icom.

Please read this instruction manual ⁻ thoroughly before operating your new **IC-2400A/E** or **IC-2500A/E**. For further information, please feel free to contact your nearest Icom Dealer or Service Center.

UNPACKING

Accessories included   **Qty.**
① DC power cable (OPC-044B) 1
② Mobile mounting bracket 1
③ Support bracket. 1
④ Microphone* 1
⑤ Set screws (A) 4 x 8 4
⑥ Flat washers (M5) 4
⑦ Self-tapping screws (A0 5 x 16) 4
⑧ Spring washers (M5) 4
⑨ Screws (M5 x 12) 4
⑩ Flat washers (M4) 4
⑪ Nuts (M5) 4
⑫ Cable lugs 2
⑬ External speaker plug. 1
⑭ Fuses (15 A). 2
⑮ Microphone hanger 1
   * HM-14 for U.S.A. version
    HM-12 for Australia version
    HM-15 for Europe version

DUAL BAND CAPABILITY

The transceiver receives on both the MAIN and SUB bands simultaneously. While operating on one band, you can watch for scheduled QSO calls on another band.

DUAL BAND READOUT, SEPARATE CONTROLS

The advanced -function display simultaneously shows you the MAIN and SUB band operating frequencies. And each band can be independently controlled with separate volume and squelch controls.

SUB BAND ACCESS FUNCTION

This function gives you immediate access to the SUB band at any time. Set the operating frequency and other operating conditions on the SUB band, leaving your MAIN band free for other operations.

AFC FUNCTION (IC-2500A/E 1200 MHz band only)

Icom's advanced AFC* system automatically and immediately tunes the receive frequency to the frequency of the transmitting station when the transmitting station is off frequency.

* Automatic Frequency Control.

40 MEMORY CHANNELS

The transceiver has 20 memory channels and 1 call channel for each band. Memory channels and the call channel store all information for repeater operation.
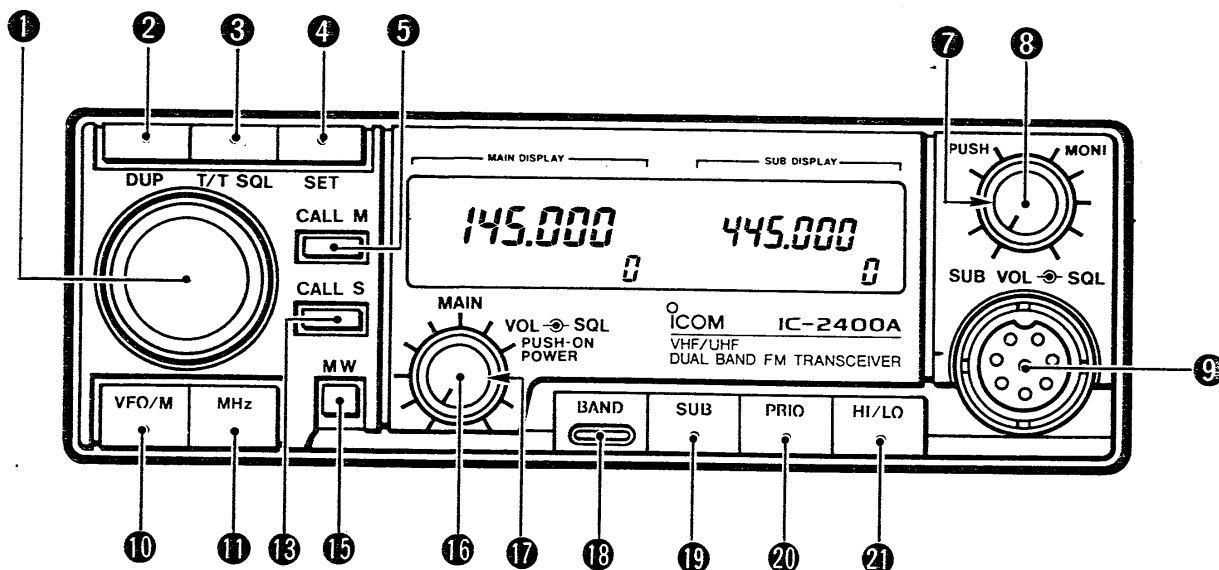
SCAN FUNCTIONS AND PRIORITY WATCH

Both the scan function and priority watch operate independently on the MAIN and SUB bands.

POCKET BEEP FUNCTION

A 30 sec. alarm is generated when a subaudible tone identical to the pre-programmed tone is received. This function can be set separately on the MAIN and SUB bands to limit reception to stations you want to hear.

* An optional UT-40 TONE SQUELCH UNIT is necessary.

2-1 FRONT PANEL

The illustration above shows the IC-2400A.

❶ TUNING CONTROL
- Changes the operating frequency. (p. 12)
- Changes the memory channel. (p. 22)
- Changes contents of the SET mode display. (p. 10)

❷ DUPLEX SWITCH [DUP]
Selects simplex, —duplex or +duplex. (p. 18)

❸ TONE SWITCH [T/T SQL]
- Turns ON and OFF the subaudible tone encoder. (p. 18)
- Selects the optional UT-40 functions. (pgs. 35, 36)

❹ SET SWITCH [SET]
Selects SET mode and advances the SET mode displays. (p. 10)

❺ MAIN BAND CALL CHANNEL SWITCH [CALL M] (IC-2400A/E)
Selects a MAIN band call channel. (p. 24)

❻ AFC SWITCH [AFC] (IC-2500A/E)
Selects the AFC-RIT (VXO) or manual-RIT (VXO) function. (p. 21)
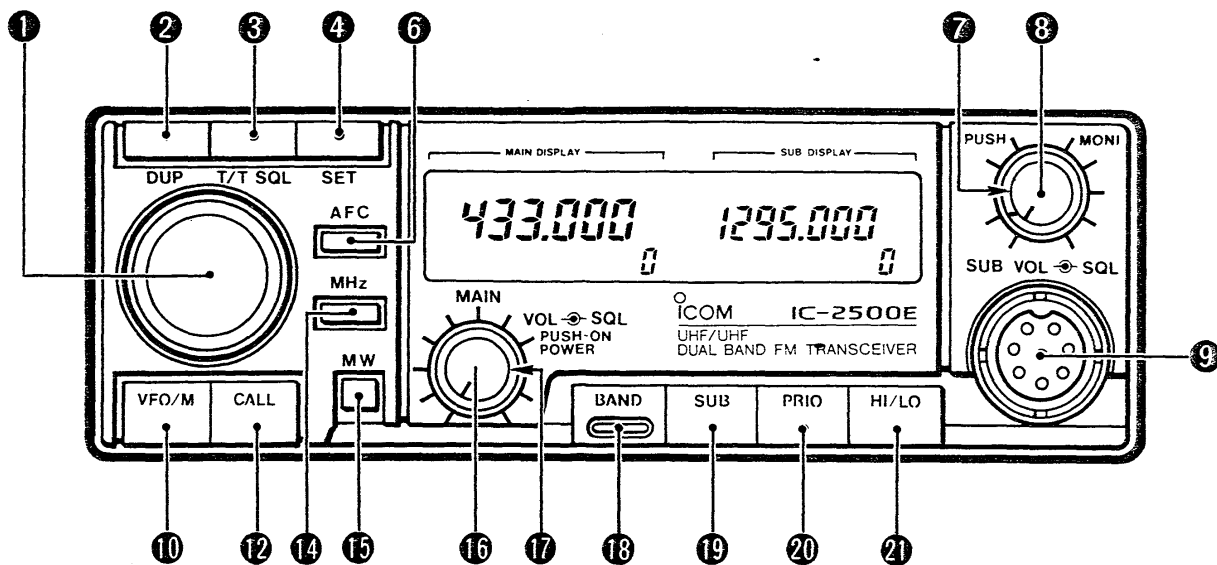
❼ SUB BAND SQUELCH CONTROL [SUB SQL]
Adjusts the SUB band squelch threshold level. (p. 15)

❽ SUB BAND VOLUME [SUB VOL]
- Adjusts the SUB band audio level. (p. 15)
- Opens the MAIN band squelch while being pushed. (p. 15)

❾ MICROPHONE CONNECTOR
Connects the supplied microphone or another suitable microphone. (p. 5)

The illustration above shows the IC-2500E.

⑩ **VFO/MEMORY SWITCH [VFO/M]**
Selects VFO or MEMORY mode.
(pgs. 12, 22)

⑪ **MHz SWITCH [MHz] (IC-2400A/E)**
Selects a 1 MHz tuning step increment.
(p. 12)

⑫ **CALL CHANNEL SWITCH [CALL]
(IC-2500A/E)**
Selects a call channel. (p. 24)

⑬ **SUB BAND CALL CHANNEL
SWITCH [CALL S] (IC-2400A/E)**
Selects a SUB band call channel. (p. 24)

⑭ **MHz SWITCH [MHz] (IC-2500A/E)**
Selects a 1 MHz tuning step increment.
(p. 12)

⑮ **MEMORY WRITE SWITCH [MW]**
- Writes a memory channel. (p. 23)
- Transfers the contents of a memory channel to the VFO. (p. 23)
- Programs a call channel. (p. 25)

⑯ **POWER SWITCH/MAIN BAND
VOLUME CONTROL [MAIN VOL]**
- Turns the power ON and OFF. (p. 12)
- Adjusts the MAIN band audio level.
(p. 15)   .

⑰ **MAIN BAND SQUELCH CONTROL
[MAIN SQL]**
Adjusts the MAIN band squelch threshold
level. (p. 15)

⑱ **BAND SWITCH [BAND]**
Exchanges MAIN and SUB bands. (p. 12)

⑲ **SUB BAND SWITCH [SUB]**
- Selects the SUB band access function.
(p. 14)
- Deactivates the TUNING CONTROL
and some switches. (p. 13)

⑳ **PRIORITY SWITCH [PRIO]**
Turns priority watch ON and OFF. (p. 30)

㉑ **TRANSMIT POWER SWITCH
[HI/LO]**
Selects HIGH or LOW transmit output
power. (p. 16)

Count on us!