oICOM

1200 MHz
FM TRANSCEIVER
IC-1201A
IC-1201E

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-1201A/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 in excessively dusty environments.

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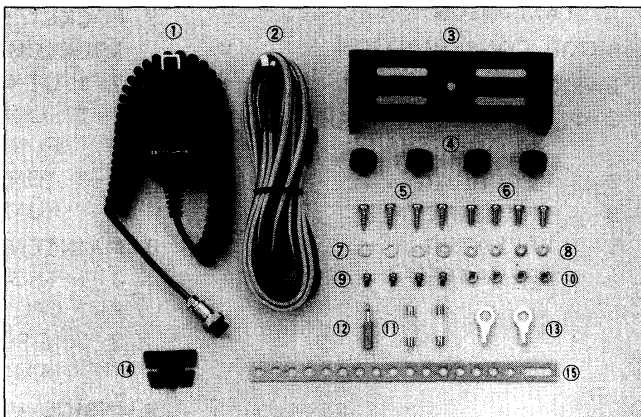
TABLE OF CONTENTS

FOREWORD

Thank you for purchasing the **IC-1201A/E 1200 MHz FM TRANSCEIVER** from Icom.

Please read this instruction manual thoroughly before operating your new **IC-1201A/E.** For further information, please feel free to contact your nearest Icom Dealer or Service Center.

UNPACKING

Accessories included	Qty.
① Microphone*	1
② DC power cable	1
③ Mobile mounting bracket	1
④ Mounting bracket knobs	4
⑤ Self-tapping screws (AO 5 x 16)	4
⑥ Screws (M5 x 12)	4
⑦ Flat washers (M5)	4
⑧ Flat washers (M4)	4
⑨ Set screws (A) 4 x 8	4
⑩ Nuts (M5)	4
⑪ Fuses (10 A)	2
⑫ External speaker plug	1
⑬ Cable lugs	2
⑭ Microphone hanger	1
⑮ Support bracket	1

 * HM-12 for IC-1201A (U.S.A. version)
   HM-15 for IC-1201E (Europe version)

●**AFC FUNCTION**

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

* Automatic Frequency Control

●**HIGH SENSITIVITY**

A GaAs FET MGF1502 is used for the RF front end circuit. The FET ensures low noise figure characteristics and superior sensitivity at less than 0.22 μV for 12 dB SINAD.

●**20 MEMORY CHANNELS**

The IC-1201A/E contains 20 fully programmable channels and 1 call channel. Each channel can store all information required to work a repeater.

●**SCAN FUNCTIONS**

The IC-1201A/E is equipped wth 2 scan functions: programmed scan and memory scan. A memory skip function is also included. In addition, priority watch waits for a call from a station while you're in contact with another station.

●**STABLE OUTPUT POWER**

The IC-1201A/E utilizes a newly designed Icom power module (SC-1066). This module steadily transmits 10 W of clean powerful output.

●**POCKET BEEP FUNCTION**

When the optional UT-40 TONE SQUELCH UNIT is installed, a 30 sec. alarm is emitted when a subaudible tone identical to your pre-programmed tone is received. This is especially convenient for busy schedules, etc.

●**COMPACT BODY**

Compact at just 140(W) x 40(H) x 200(D) mm [5.5(W) x 1.6(H) x 7.9(D) in] *, the IC-1201A/E will fit anywhere in your vehicle, making it the ideal traveller.

* Projections not included.

2 PANEL DESCRIPTION

2-1 FRONT PANEL

TRANSMIT INDICATOR [TX]
Lights while transmitting. (p. 13)

RECEIVE INDICATOR [RX]
Lights when the squelch opens. (p. 12)

CALL CHANNEL SWITCH [CALL]
Selects a call channel. (p. 26)

VFO/MEMORY SWITCH [VFO/M]
Selects VFO or MEMORY mode. (pgs. 11, 18)

TUNING CONTROL
- Changes the operating frequency. (p. 11)
- Changes the memory channel. (p. 18)
- Changes contents of SET mode displays. (p. 10)
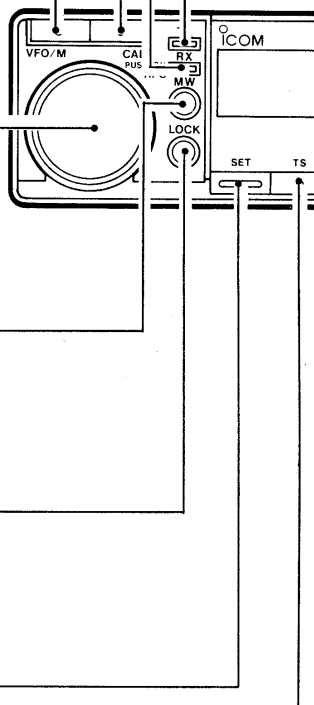
MEMORY WRITE SWITCH [MW]
- Writes a memory channel. (p. 19)
- Transfers the contents of a memory channel to the VFO. (p. 19)
- Programs a call channel. (p. 26)
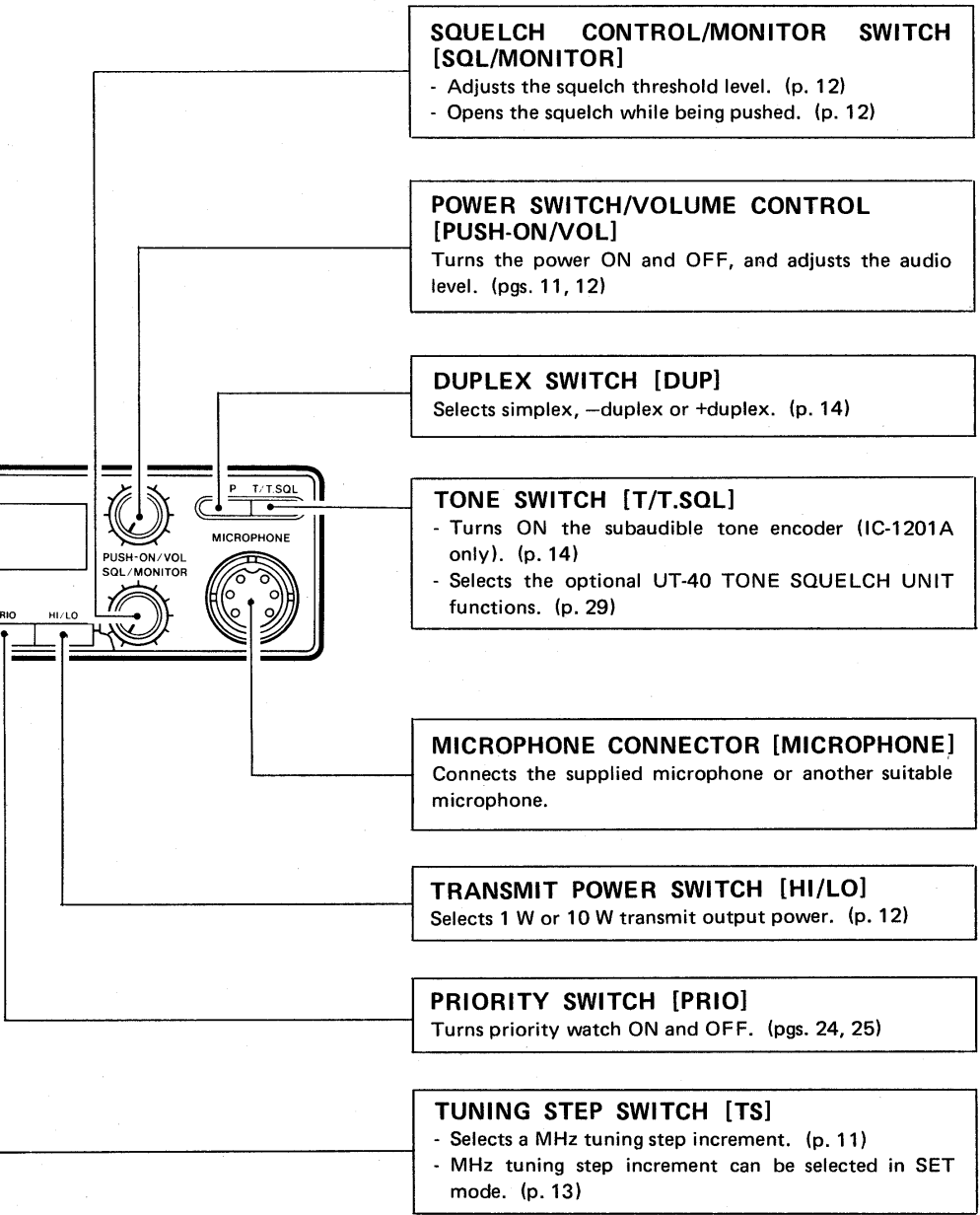
LOCK SWITCH [LOCK]
Deactivates the TUNING CONTROL and some switches. (p. 27)

SET MODE SWITCH [SET]
- Selects SET mode and advances SET mode displays. (p. 10)
- Programs a memory channel to be skipped in ME- MORY mode. (p. 23)

2

SQUELCH CONTROL/MONITOR SWITCH [SQL/MONITOR]
- Adjusts the squelch threshold level. (p. 12)
- Opens the squelch while being pushed. (p. 12)

POWER SWITCH/VOLUME CONTROL [PUSH-ON/VOL]
Turns the power ON and OFF, and adjusts the audio level. (pgs. 11, 12)

DUPLEX SWITCH [DUP]
Selects simplex, —duplex or +duplex. (p. 14)

TONE SWITCH [T/T.SQL]
- Turns ON the subaudible tone encoder (IC-1201A only). (p. 14)
- Selects the optional UT-40 TONE SQUELCH UNIT functions. (p. 29)

MICROPHONE CONNECTOR [MICROPHONE]
Connects the supplied microphone or another suitable microphone.

TRANSMIT POWER SWITCH [HI/LO]
Selects 1 W or 10 W transmit output power. (p. 12)

PRIORITY SWITCH [PRIO]
Turns priority watch ON and OFF. (pgs. 24, 25)

TUNING STEP SWITCH [TS]
- Selects a MHz tuning step increment. (p. 11)
- MHz tuning step increment can be selected in SET mode. (p. 13)

3

2-2 FUNCTION DISPLAY

PRIORITY INDICATOR

Appears during priority watch. (p. 24)
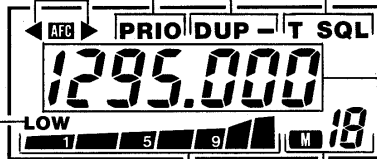
CENTER INDICATORS

- Indicate the direction a signal from the transmitting station is off frequency when the AFC function is activated. (p. 16)
- Indicate a fine tuning direction when the RIT or VXO function is activated. (p. 17)

DUPLEX INDICATORS

- "DUP—" appears when —duplex is selected. (p. 14)
- "DUP" appears when +duplex is selected. (p. 14)

TONE INDICATOR

- "T" appears when the subaudible tone encoder is turned ON (IC-1201A only). (p. 14)
- "SQL" appears when the optional UT-40 pocket beep function is activated. (p. 29)
- "T SQL" appears when the optional UT-40 tone squelch function is activated. (p. 29)

◀AFC▶ PRIO DUP –T SQL

1295.000

LOW 1 5 9 M 18

LOW POWER INDICATOR

Appears when LOW output power is selected with the [HI/LO] switch. (p. 12)

FREQUENCY READOUT

Displays the operating frequency except in SET mode.

MEMORY INDICATOR

Appears when MEMORY mode is selected with the [VFO/M] switch. (p. 18)

MEMORY CHANNEL READOUT

- Displays the memory channel number. (p. 18)
- Displays "C" when the CALL CHANNEL mode is selected with the [CALL] switch. (p. 26)
- Displays "L" when the lock function is activated. (p. 27)

S/RF INDICATOR

- Shows signal strength when receiving. (p. 12)
- Shows relative output power selection when transmitting. (p. 13)

4

IC-1201A/E ERRATA

Please note the following 3 corrections in the IC-1201A/E instruction manual.
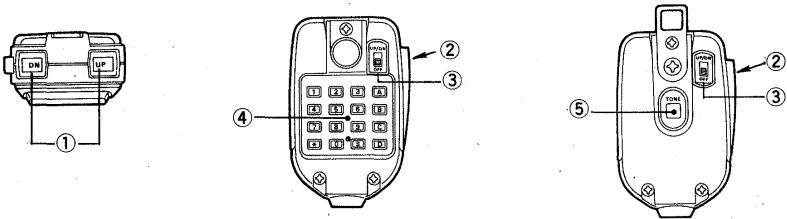
■ **Page iii   Second line from the bottom**

WRONG

• HM-12 for IC-1201A (U.S.A. version)

RIGHT

• HM-14 for IC-1201A (U.S.A. version)

■ **Page 5   2 - 4 MICROPHONE**

Replace with the following information.

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① **UP/DOWN SWITCHES**

Push either of these switches to change the operating frequency or memory channel.

Push and hold either of those switches to start scanning.

② **PTT SWITCH**

Push to transmit.

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③ **UP/DOWN ON/OFF SWITCH**

Prevents accidental changes of the [UP] and [DN] switches.

④ **DTMF KEYBOARD (HM-14 only)**

Produces DTMF signals while transmitting.

⑤ **TONE CALL SWITCH(HM-15 only)**

Transmits a 1750 Hz tone signal.

■ **Page 14   5 - 4 REPEATER OPERATION**

Replace the tone information located at the bottom of the page with the following information.

• **SUBAUDIBLE TONE**

Push the [T/T.SQL] switch to turn the subaudible tone encoder ON and OFF.

T/T.SQL

"T" appears on the FUNCTION DISPLAY.
(U.S.A. version)

• **DTMF TONE**

Push and hold the [PTT] switch and then push the required number on the microphone back panel.

(U.S.A. version)

• **1750 Hz TONE CALL**

Push and hold the [TONE] switch on the microphone for approx. 1 ~ 3 sec. to transmit a 1750 Hz tone.

(Europe version)