



INSTRUCTION MANUAL

144 MHz FM TRANSCEIVER **IC-2100H**

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Icom Inc.

FOREWORD

Thank you for purchasing this Icom product. The IC-2100H/-T 144 MHz FM 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.

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-2100H/-T.

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 of personal injury, fire or electric shock.

CAUTIONS

⚠ WARNING! NEVER connect the transceiver to an AC outlet. This may pose a fire hazard or result in an electric shock.

⚠ WARNING! NEVER operate the transceiver while driving a vehicle. Safe driving requires your full attention—anything less may result in an accident.

NEVER connect the transceiver to a power source of more than 16 V DC. This will ruin the transceiver.

NEVER connect the transceiver to a power source using reverse polarity. This will ruin the transceiver.

NEVER cut the DC power cable between the DC plug and fuse holder. If an incorrect connection is made after cutting, the transceiver may be damaged.

NEVER place the transceiver where normal operation of the vehicle may be hindered or where it could cause bodily injury.

NEVER let objects impede the operation of the cooling fan on the rear panel.

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

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

SUPPLIED ACCESSORIES

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

BE CAREFUL! The transceiver will become hot when operating it continuously for long periods.

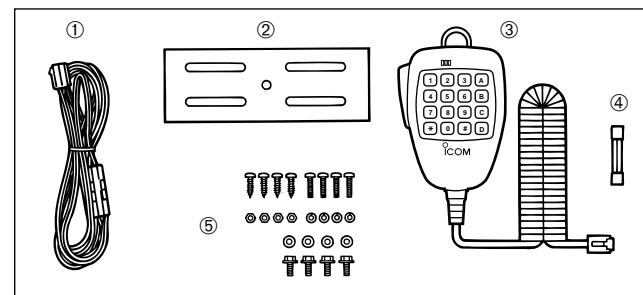
AVOID using or placing the transceiver in direct sunlight or in areas with temperatures below -10°C ($+14^{\circ}\text{F}$) or above $+60^{\circ}\text{C}$ ($+140^{\circ}\text{F}$).

AVOID the use of chemical agents such as benzine or alcohol when cleaning, as they can damage the transceiver's surfaces.

USE Icom microphones only (supplied or optional). Other manufacturer's microphones have different pin assignments and may damage the transceiver if attached.

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.



- ① DC power cable 1
- ② Mobile mounting bracket 1
- ③ Microphone (HM-118T*) 1
- ④ Fuse (20 A) 1
- ⑤ Mounting screws, nuts and washers 1 set
- ⑥ Mic hanger (depending on version) 1

*The microphone illustrated above is the HM-118T.

- HM-97 Europe versions
- HM-98S USA, Taiwan versions
- HM-118 Asia, Australia versions
- HM-118T Thailand, Latin America, Korea versions
- HM-118TA some USA versions

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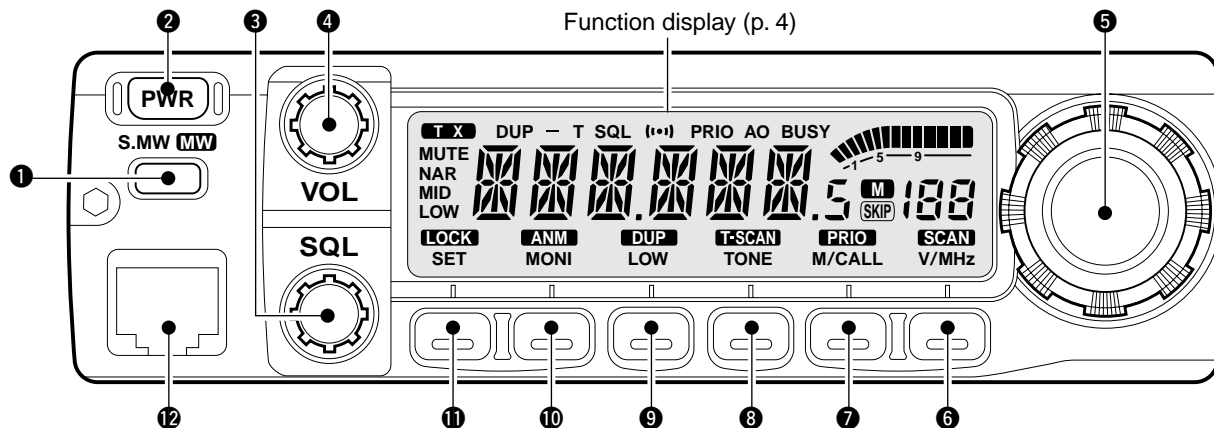
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■ Front panel



① SELECT MEMORY/MEMORY WRITE SWITCH [S.MW(MW)]

- ➔ Selects a memory channel for programming. (p. 26)
- ➔ Programs selected memory when pushed and held. (p. 27)

② POWER SWITCH [PWR]

Turns power ON and OFF when pushed momentarily.

③ SQUELCH CONTROL [SQL]

Varies the squelch level. (p. 18)

- The RF attenuator activates and increases the attenuation when rotated clockwise to the center position and further.

④ VOLUME CONTROL [VOL]

Adjusts the audio level. (p. 18)

⑤ TUNING DIAL

Selects the operating frequency (p. 15), the memory channel (p. 26), the contents of the set mode display and the scanning direction (p. 37).

⑥ VFO/MHz SWITCH [V/MHz(SCAN)]

- ➔ Selects and toggles VFO mode and the 1 MHz/10 MHz/TS tuning display. (p. 15)
- ➔ Starts a scan when pushed and held for 1 sec. (p. 37)

⑦ MEMORY/CALL CHANNEL SWITCH [M/CALL(PRIO)]

- ➔ Selects and toggles memory mode or the call channel. (pgs. 26, 32)
- ➔ Activates the priority watch function when pushed and held. (p. 42)

⑧ TONE/TONE SCAN SWITCH [TONE(T-SCAN)]

- ➔ Each push selects a tone function. (p. 46)
 - Tone encoder, pocket beep, tone squelch or tone function OFF can be selected.
- ➔ Push and hold to start/stop the tone scan function. (p. 48)

⑨ OUTPUT POWER/DUPLEX SWITCH [LOW(DUP)]

- ➔ Each push changes the output power selection. (p. 19)
 - There are 3 output powers available: low, mid and high (the IC-2100-T Thailand and IC-2100H Taiwan versions have only 2 output powers).
- ➔ Push and hold to select a duplex setting. (p. 21)
 - There are 3 duplex settings available: minus duplex ("DUP—" appears), plus duplex ("DUP" appears) and simplex (no indicator appears).

⑩ MONITOR/ALPHANUMERIC SWITCH [MONI(ANM)]

- ➔ Toggles squelch opened and closed when pushed. (p. 18)
- ➔ In memory and call channel mode, toggles the alphanumeric channel indication ON and OFF. (p. 31)

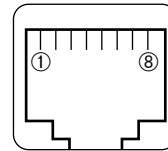
⑪ SET/LOCK SWITCH [SET(LOCK)]

- ➔ Selects set mode when pushed.
- ➔ Toggles the lock function ON and OFF when pushed and held. (p. 14)

⑫ MICROPHONE CONNECTOR

Connects the supplied microphone. (p. 7)

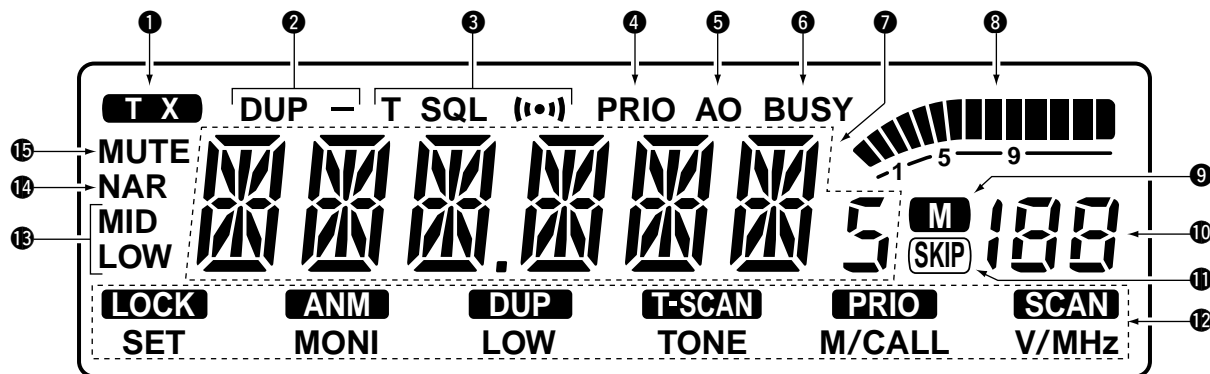
◇ Microphone connector (front panel view)



- ① +8 V DC output
- ② Frequency up/down
- ③ NC (no connection)
- ④ PTT
- ⑤ GND (microphone ground)
- ⑥ MIC (microphone input)
- ⑦ GND
- ⑧ NC (no connection)

1 PANEL DESCRIPTION

■ Function display



① TRANSMIT INDICATOR

- Appears while transmitting. (p. 19)
- Flashes while transmitting with the one-touch PTT function. (p.20)

② DUPLEX INDICATORS (p. 21)

- “DUP-” or “DUP” appears during semi-duplex operation (repeater operation).

③ TONE INDICATORS

- “T” appears while the subaudible tone encoder is in use. (p. 21)
- “T SQL” appears while the tone squelch function is in use. (p.47)
- “T SQL ((.))” appears while the pocket beep function is

in use. (p. 46)

④ PRIORITY WATCH INDICATOR (p. 42)

- Appears while the priority watch is activated; flashes while the watch is paused.

⑤ AUTO POWER-OFF INDICATOR (p. 56)

- Appears while the auto power-off function is in use.

⑥ BUSY INDICATOR (p. 18)

- Appears when a signal is being received or the squelch is open ([MONI] is pushed).

⑦ FREQUENCY READOUT

- Shows the operating frequency, alphanumeric names, set mode contents, etc.

- Frequency decimal point flashes while scanning. (p. 37)

Count on us!

A-5492H-1EX-④
Printed in Japan
Copyright 1997 Icom Inc.

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