iCOM

DUAL BAND FM TRANSCEIVER

IC-2800H

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

READ ALL INSTRUCTIONS carefully and completely before using the transceiver.

SAVE THIS INSTRUCTION MANUAL — This instruction manual contains important operating instructions for the IC-2800H.

EXPLICIT DEFINITIONS

The explicit definitions below apply to this instruction manual.

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.

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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.

⚠**WARNING! HIGH VOLTAGE! NEVER** disassemble the remote controller. There is a high voltage circuit inside.

NEVER connect the transceiver to a power source of more than 16 V DC or 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 operate the transceiver near unshielded electrical blasting caps or in an explosive atmosphere.

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.

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).

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

Place unit in a secure place to avoid inadvertent use by children.

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

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

For LCD display

DO NOT press the LCD screen. Excessive pressure may cause permanent damage to the LCD.

DO NOT tap or scratch the LCD using sharp objects.

BE CAREFUL when cleaning the LCD. Dust can easily scratch the surface.

LCDs are produced using high-density manufacturing technology resulting in 99.98% active dots, however, up to 0.02% of the dots may be non-active and/or continuously active. This is normal and does not indicate LCD malfunction.

Uneven areas may be displayed depending on display contents in some cases.

After displaying the same screen continuously for long periods, image 'burn-in' may occur. In such cases, turn the power OFF and discontinue operation for at least 24 hours.

For U.S.A. only

CAUTION: Changes or modifications to this device, not expressly approved by Icom Inc., could void your authority to operate this device under FCC regulations.
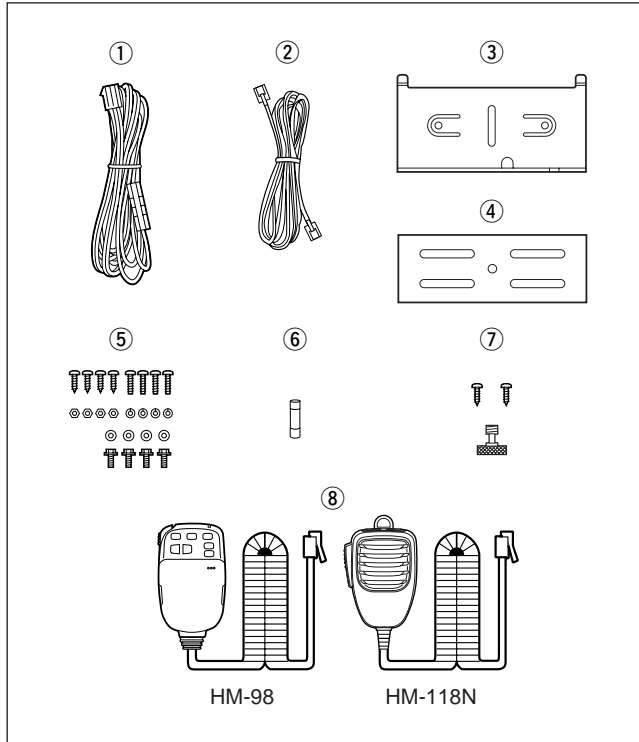
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The transceiver comes with the following accessories.

Qty.

① DC power cable (OPC-346) 1
② Remote controller cable*[1] 1
③ Remote controller mounting bracket (MB-73) 1
④ Main unit mounting bracket 1
⑤ Mounting screws, nuts and washers .... 1 set
⑥ Fuse (FGB 20 A) 1
⑦ Remote controller mounting screws and nut .... 1 set
⑧ Microphone*[2] (HM-98/97/118N) 1

*[1] A ferrite core is attached at one end of the cable for the U.S.A., Europe and Taiwan versions.
*[2] The microphones illustrated at left are the HM-98 and HM-118. One of either the HM-98, HM-97 or HM-118N/TN/TAN microphone is supplied depending on version.

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HM-98   HM-118N

PANEL DESCRIPTION

■ Controller unit

Function display (p. 4)
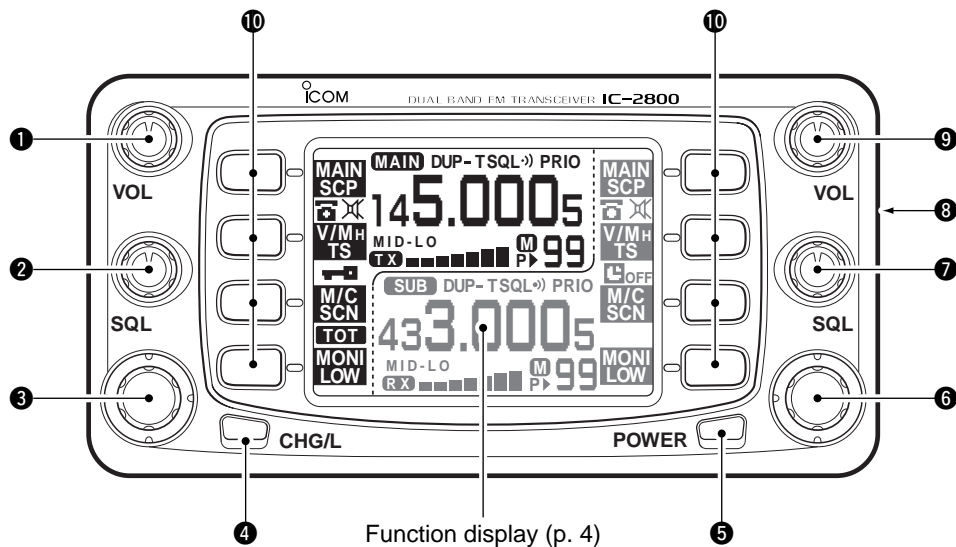
❶ VHF VOLUME CONTROL [VOL]
Adjusts the VHF audio level. (p. 23)

❷ VHF SQUELCH CONTROL [SQL]
➥ Adjusts the VHF squelch level. (p. 23)
➥ Depending on the set mode setting, the RF attenuator is automatically activated when [SQL] is rotated clockwise past the 12 o'clock position. (pgs. 23, 66)

❸ VHF TUNING DIAL [DIAL]
Rotate [DIAL] to set operating frequencies, memory channels, set mode contents, etc. (p. 20)

❹ CHANGE/LOCK SWITCH [CHG/L]
➥ Toggles the multi-function switch menu. (p. 6)
➥ Push [CHG/L] for 2 sec. to toggle the lock function ON and OFF. (p. 19)

❺ POWER SWITCH [POWER]
Push for 2 sec. to toggle the transceiver power ON and OFF. (p. 18)

❻ UHF TUNING DIAL [DIAL]
Rotate [DIAL] to set operating frequencies, memory channels, set mode contents, etc. (p. 20)

❼ UHF SQUELCH CONTROL [SQL]
➥ Adjusts the UHF squelch level. (p. 23)
➥ Depending on the set mode setting, the RF attenuator is automatically activated when [SQL] is rotated clockwise past the 12 o'clock position. (pgs. 23, 66)

❽ VIDEO INPUT JACK [VIDEO IN]
Inputs an NTSC or PAL video signal depending on version. (p. 73)
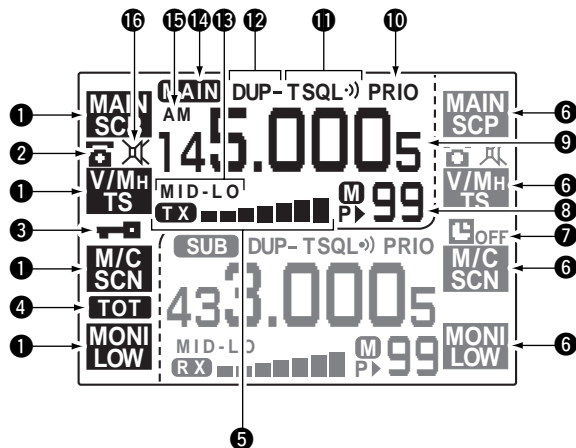
❾ UHF VOLUME CONTROL [VOL]
Adjusts the UHF audio level. (p. 23)

❿ MULTI-FUNCTION SWITCHES (pgs. 6, 7)
Push to select the function indicated in the right-hand or left-hand LCD display of these switches.
• Left-hand switches are used for VHF band and right-hand switches are used for UHF band.
• Functions vary depending on the operating condition.

■ **Function display**

❶ **FUNCTION INDICATORS** (pgs. 6, 7)
Indicate the functions assigned to the multi-function switches at left.

❷ **DTMF MEMORY ENCODER INDICATOR** (p. 54)
Appears when the DTMF memory encoder is in use.

❸ **LOCK INDICATOR** (p. 19)
Appears when the lock function is in use.

❹ **TIME-OUT TIMER INDICATOR** (p. 63)
➥ Appears when the time-out timer is activated.
➥ Flashes when the time-out time elapses and the transmission is terminated.

❺ **S/RF INDICATOR**
Shows the relative signal strength while receiving. Shows the relative output power while transmitting. (pgs. 23, 24)
• "RX" appears when receiving a signal or when the squelch is open.
• "TX" appears when transmitting.

❻ **FUNCTION INDICATORS** (pgs. 6, 7)
Indicate the functions assigned to the multi-function switches at right.

❼ **AUTO POWER-OFF INDICATOR** (p. 64)
Appears when the auto power-off function is in use.

❽ **MEMORY CHANNEL READOUT**
Shows the memory or call channel number, etc.
➥ "M" appears when a memory channel is selected. (p. 18)
➥ "▶" appears when a selected memory channel is set as a skip channel. (p. 46)
➥ "P▶" appears when the memory channel frequency is set as a skip frequency during scanning. (p. 46)

Count on us!

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