



INSTRUCTION MANUAL

DUAL BAND FM TRANSCEIVER **IC-2720H**

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-2720H VHF/UHF 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.

We want to take a couple of moments of your time to thank you for making your IC-2720H your radio of choice, and hope you agree with Icom's philosophy of "technology first." Many hours of research and development went into the design of your IC-2720H.

◆ FEATURES


- *V/V, U/U simultaneous receive capability*
- *Independent controls for each left and right bands*
- *Separate controller for flexible installation*
- *50 W* of high transmit output power*
*VHF band; 35 W for UHF, 25 W for Taiwan version
- *Remote control microphone standard*
- *New DMS (Dynamic Memory Scan) system*

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-2720H.

EXPLICIT DEFINITIONS

| WORD | DEFINITION |
|---|--|
|  WARNING! | Personal injury, fire hazard or electric shock may occur. |
| CAUTION | Equipment damage may occur. |
| NOTE | Recommended for optimum use. No risk of personal injury, fire or electric shock. |

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PRECAUTION

⚠ WARNING RF EXPOSURE! This device emits Radio Frequency (RF) energy. Extreme caution should be observed when operating this device. If you have any questions regarding RF exposure and safety standards please refer to the Federal Communications Commission Office of Engineering and Technology's report on Evaluating Compliance with FCC Guidelines for Human Radio frequency Electromagnetic Fields (OET Bulletin 65).

⚠ 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 damage the transceiver.

NEVER connect the transceiver to a power source using reverse polarity. This will damage 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 expose the transceiver to rain, snow or any liquids. The transceiver may be damaged.

NEVER operate or touch the transceiver with wet hands. This may result in an electric shock or damage the transceiver.

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.

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

DO NOT use or place the transceiver in direct sunlight or in areas with temperatures below -10°C or above $+60^{\circ}\text{C}$.

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

DO NOT set the transceiver in a place without adequate ventilation. Heat dissipation may be affected, and the transceiver may be damaged.

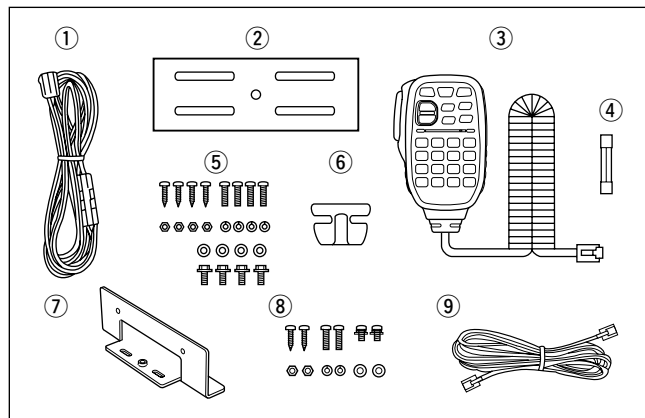
DO NOT use the chemical agents such as benzine or alcohol when cleaning, as they can damage the transceiver's surfaces.

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 device, not expressly approved by Icom Inc., could void your authority to operate this device under FCC regulations.

SUPPLIED ACCESSORIES



- ① DC power cable (3 m) 1
- ② Mobile mounting bracket 1
- ③ Microphone (HM-133)* 1
- ④ Fuse (20 A) 1
- ⑤ Mounting screws, nuts and washers 1 set
- ⑥ Microphone hanger 1
- ⑦ Remote controller bracket (MB-84) 1
- ⑧ Mounting screws, nuts and washers for MB-84 1 set
- ⑨ Separation cable† (3.5 m; 11.5 ft) 1

*HM-118N HAND MICROPHONE OR HM-118TN/TAN DTMF MICROPHONE

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supplied versions are also available.

†A ferrite core is adapted for the USA version.

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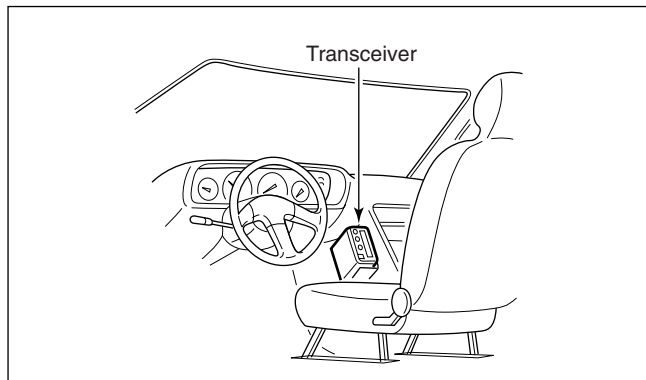
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QUICK REFERENCE GUIDE

■ Installation

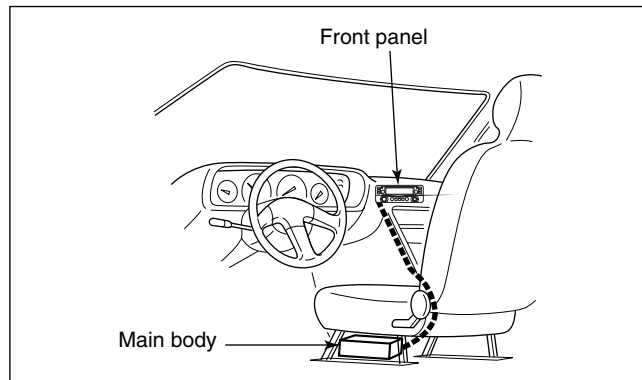
◇ Installation methods

• *Single body installation*



- Optional MB-85 COMBINATION BRACKET is necessary to mount the controller to the main unit. (20 cm; 7⁷/₈" separation cable is supplied with the bracket.)
- The supplied mounting bracket (or optional MB-17A) can be used for the main unit installation.

• *Remote installation*



- The supplied MB-84 REMOTE CONTROLLER BRACKET and OPC-1155 SEPARATION CABLE can be used for installation.
- Optional OPC-1156 SEPARATION CABLE (3.5 m; 11.5 ft) is available for extend the separation cable.
- Optional MB-65 MOUNTING BASE is available for increasing front panel mounting possibilities.
- Optional OPC-440 MICROPHONE CABLE (5.0 m; 16.4 ft) and OPC-647 (2.5 m; 8.2 ft) are available to extend the microphone cable.
- Optional OPC-441 SPEAKER CABLE (5.0 m; 16.4 ft) is available to extend the speaker cable.

◇ Location

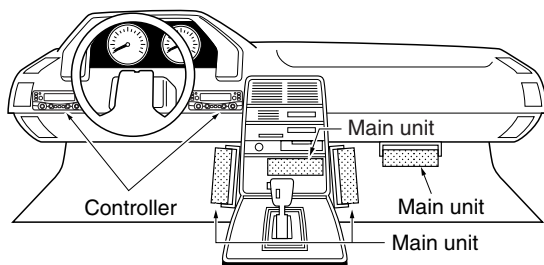
Select a location which can support the weight of the transceiver and does not interfere with driving. We recommend the locations shown in the diagram below.

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

NEVER place the transceiver or remote controller where air bag deployment may be obstructed.

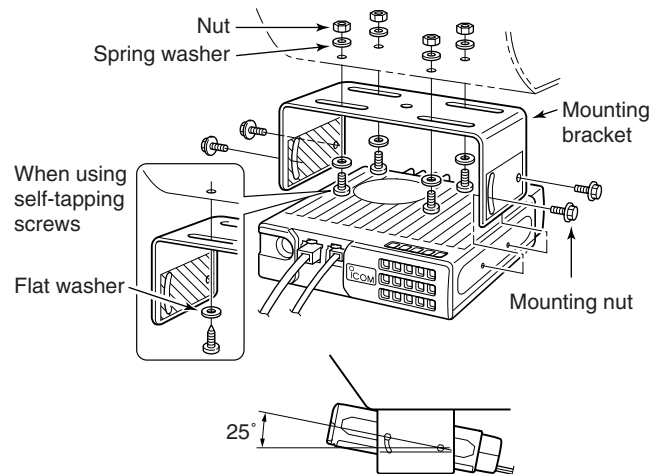
DO NOT place the transceiver or remote controller where hot or cold air blows directly onto it.

DO NOT place the transceiver or remote controller in direct sunlight.



◇ Using the mounting bracket

- ① Drill 4 holes where the mounting bracket is to be installed.
 - Approx. 5.5–6 mm ($\frac{1}{4}$ ") when using nuts; approx. 2–3 mm ($\frac{1}{8}$ ") when using self-tapping screws.
- ② Insert the supplied screws, nuts and washers through the mounting bracket and tighten.
- ③ Adjust the angle for your suitable position.



QUICK REFERENCE GUIDE

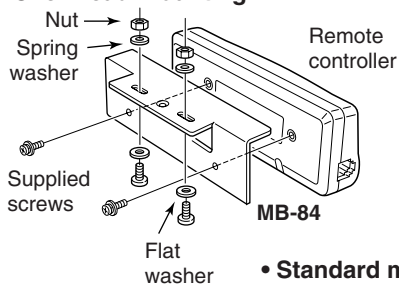
◇ MB-84 installation

The supplied MB-84 REMOTE CONTROLLER BRACKET is used for separate installation.

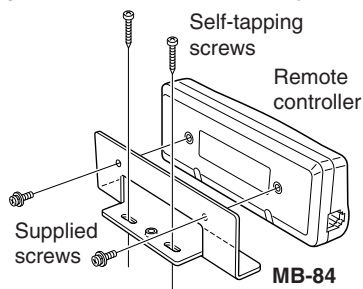
① Drill 2 holes where the bracket is to be installed.

- Approx. 4 mm ($1/8"$) when using nuts; approx. 1–2 mm ($1/16"$) when using self-tapping screws.

• Over-head mounting



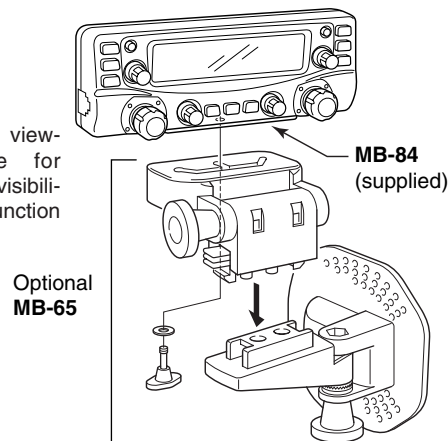
• Standard mounting



- ② Attach the remote controller to the MB-84 and tighten the controller using with the supplied screws.
- ③ Tighten the controller with bracket.

• Using the optional MB-65

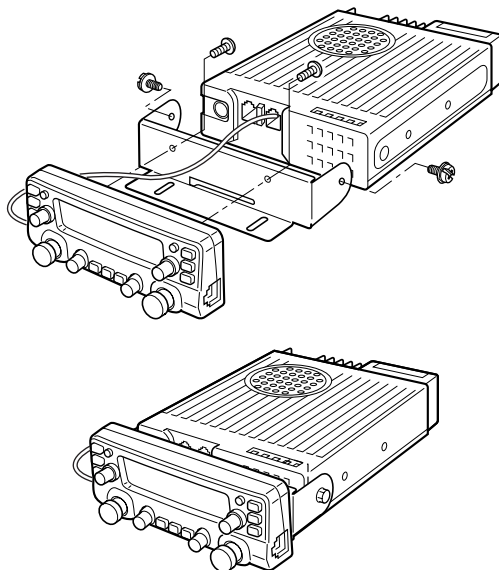
Adjust the viewing angle for maximum visibility of the function display.



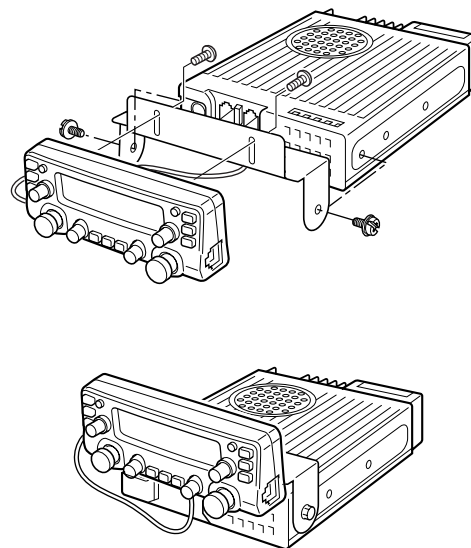
◇ Optional MB-85 installation

When using the optional MB-85 (COMBINATION BRACKET), you can install the control head of the IC-2720H in one of 2 methods. A 20 cm (7⁷/₈") remote control cable is supplied for connection, and connect the cable before attaching the bracket to the main unit is recommended.

• Example 1



• Example 2



Count on us!

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