



INSTRUCTION MANUAL

VHF MARINE TRANSCEIVER **IC-M87**

Icom Inc.



IN CASE OF EMERGENCY

If your vessel requires assistance, contact other vessels and the Coast Guard by sending a distress call on Channel 16.

○ **USING CHANNEL 16**

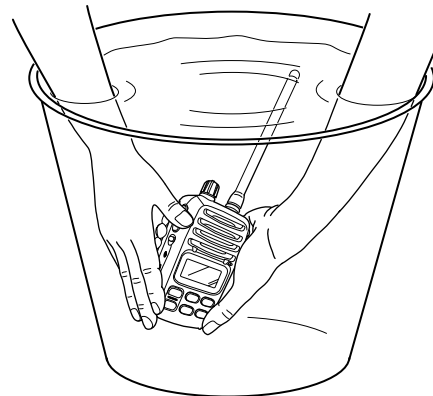
DISTRESS CALL PROCEDURE

1. "MAYDAY MAYDAY MAYDAY."
2. "THIS IS " (name of vessel)
3. Your call sign or other indication of the vessel.
4. "LOCATED AT " (your position)
5. The nature of the distress and assistance required.
6. Any other information which might facilitate the rescue.

RECOMMENDATION

CLEAN THE TRANSCEIVER THOROUGHLY WITH FRESH WATER after exposure to saltwater, and dry it before operation. Otherwise, the transceiver's keys, switches and controllers may become unusable due to salt crystallization.

NOTE: DO NOT wash the transceiver in water if there is any reason to suspect the waterproofing may not be effective. For example, in cases where the battery pack rubber seal is damaged, the transceiver/battery pack is cracked or broken, or has been dropped, or when the battery pack is detached from the transceiver.



FOREWORD



Thank you for purchasing this Icom product. The IC-M87 VHF MARINE TRANSCEIVER is designed and built with Icom's state of the art 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-M87.

EXPLICIT DEFINITIONS

WORD	DEFINITION
 DANGER!	Personal death, serious injury or an explosion may occur.
 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.

FEATURES

22 free channels for PMR use

The IC-M87 has 22 free channels reserved for PMR use (146–174MHz). Wide/narrow channel spacing is programmable for each channel, and CTCSS and DTCS signaling is included.

*Appropriate license will be required.

Tough waterproof construction

The IC-M87 is built tough to withstand hazardous and inhospitable environments at sea and on land. Even if the IC-M87 is dropped into water, its waterproofing* will protect it from harm. The compact and durable body meets the military specifications (MIL-STD).

* Equivalent to IPX7 of the corresponding International Standard IEC 529 (1989). (1m depth for 30 minutes)

Simple operation

6 clearly labelled buttons on the front panel and the volume/power knob maximize simplicity of operation. Even when wearing gloves, the large buttons are easy to operate. A large, clear LCD with backlighting and backlit buttons make night time operation simple.

PRECAUTIONS

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

⚠ WARNING! NEVER hold the transceiver so that the antenna is very close to, or touching exposed parts of the body, especially the face or eyes, while transmitting. The transceiver will perform best if the microphone is 5 to 10 cm away from the lips and the transceiver is vertical.

CAUTION: NEVER connect the transceiver to a power source other than the specified battery pack/case. Such a connection will ruin the transceiver.

DO NOT use or place the transceiver in direct sunlight or in areas with temperatures below -15°C or above $+55^{\circ}\text{C}$: Marine, below -25°C or above $+55^{\circ}\text{C}$: PMR.

KEEP the transceiver out of the reach of children.

KEEP the transceiver at least 0.9 meter away from your vessel's magnetic navigation compass.

BE CAREFUL! The transceiver meets IPX7* requirements for waterproof protection. However, once the transceiver has been dropped, waterproof protection cannot be guaranteed because of possible damage to the transceiver's case or the waterproof seal.

*Only when the battery pack, flexible antenna, [SP MIC] jack cover is attached.

MAKE SURE the flexible antenna and battery pack are securely attached to the transceiver, and that the antenna and battery pack are dry before attachment. Exposing the inside of the transceiver to water will result in serious damage to the transceiver.

After exposure to water, clean the battery contacts thoroughly with fresh water and dry them completely to remove any water or salt residue.

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◇ Priorities

- Read all rules and regulations pertaining to priorities and keep an up-to-date copy handy. Safety and distress calls take priority over all others.
- You must monitor Channel 16 when you are not operating on another channel.
- False or fraudulent distress calls are prohibited under law.

◇ Privacy

- Information overheard but not intended for you cannot lawfully be used in any way.
- Indecent or profane language is prohibited.

◇ Radio licenses

(1) SHIP STATION LICENSE

When your craft is equipped with a VHF FM transceiver, you must have a current radio station license before using the transceiver. It is unlawful to operate a ship station which is not licensed.

Inquire through your dealer or the appropriate government agency for a Ship-Radiotelephone license. This license includes the call sign which is your craft's identification for radio purposes.

(2) OPERATOR'S LICENSE

A restricted Radiotelephone Operator Permit is the license most often held by small vessel radio operators when a radio is not required for safety purposes.

The Restricted Radiotelephone Operator Permit must be posted near the transceiver or be kept with the operator. Only a licensed radio operator may operate a transceiver.

However, non-licensed individuals may talk over a transceiver if a licensed operator starts, supervises, ends the call and makes the necessary log entries.

A current copy of the applicable government rules and regulations is only required to be on hand for vessels in which a radio telephone is compulsory. However, even if you are not required to have these on hand it is your responsibility to be thoroughly acquainted with all pertinent rules and regulations.

◇ Supplied accessories

The following accessories are supplied:

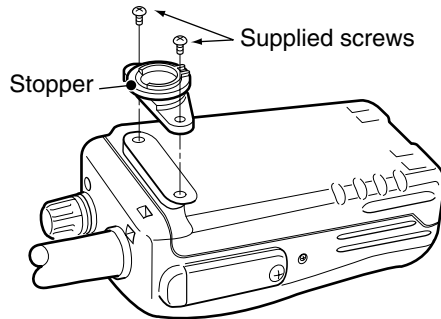
Qty.

• Swivel belt clip	1
• Stopper for the swivel belt clip	1
• Screws for the swivel belt clip	2
• Flexible antenna	1
• Handstrap	1
• Battery pack	1
• AC adapter	1
• Battery charger	1

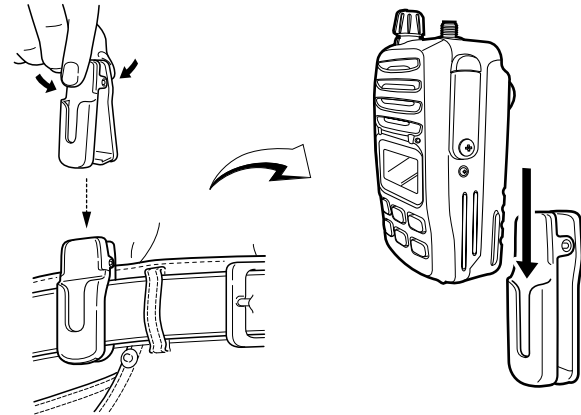
◇ Swivel belt clip

To attach:

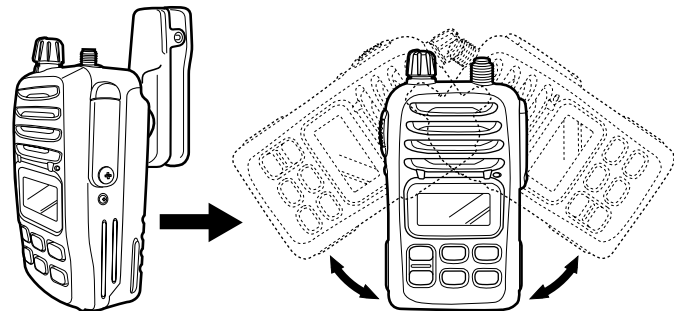
① Attach the stopper to the back of the transceiver.



② Clip the belt clip to a part of your belt and insert the stopper to the belt clip.



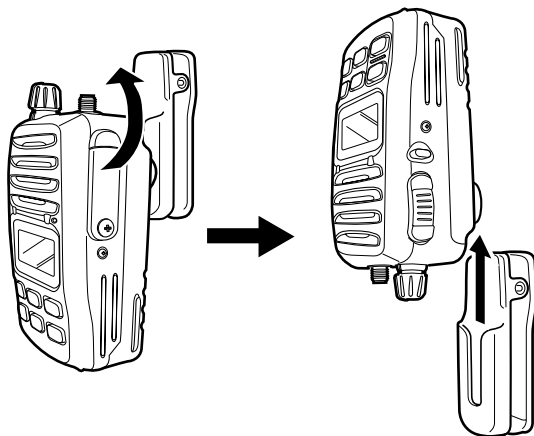
③ Once the transceiver is locked in place, it will swivel 360 degrees.



2 SUPPLIED ACCESSORIES AND ATTACHMENTS

To remove:

Turn the transceiver upside down, and then lift up to release the transceiver from the belt clip.



CAUTION:

HOLD THE TRANSCEIVER TIGHTLY, WHEN ATTACHING OR REMOVING THE TRANSCEIVER FROM THE BELT CLIP.

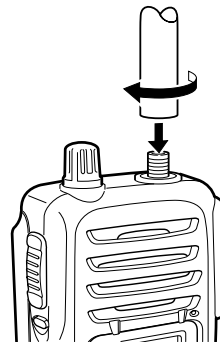
If the transceiver is accidentally dropped and the swivel belt clip's stopper is scratched or damaged, the swivel belt clip may not work properly.

◇ **Flexible antenna**

Connect the supplied flexible antenna to the antenna connector.

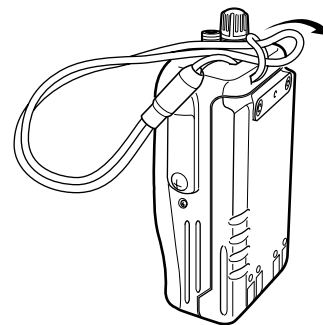
/// **CAUTION:**

- Transmitting without an antenna may damage the transceiver.
- **NEVER** carry the transceiver by holding only the antenna.

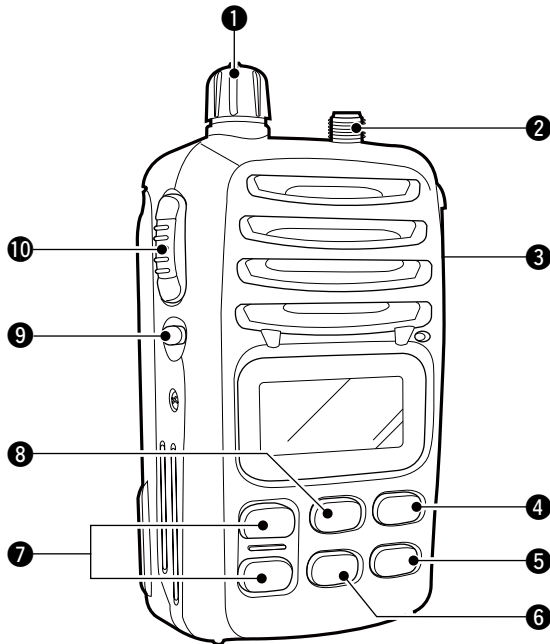


◇ **Handstrap**

Pass the handstrap through the loop on the back side of the transceiver as illustrated at right. This facilitates carrying.



■ Front, top and side panels



① VOLUME CONTROL [VOL]

Turns power ON and adjusts the audio level.

② ANTENNA CONNECTOR (p. 3)

Connects the supplied antenna.

③ SPEAKER-MICROPHONE CONNECTOR [SP MIC] (p. 27)

Connects the optional speaker-microphone.



[SP MIC] jack cover

NOTE: KEEP the [SP MIC] jack cover attached to the transceiver when the speaker-microphone is not in use.

④ SCAN [SCN•DUAL]

- Starts and stops normal or priority scan. (p. 14)
- Enters Watch mode when pushed for 1 sec. (p. 15)

⑤ TRANSMIT POWER/LOCK SWITCH [H/L•LOCK]

- Selects high, middle (except for the German version) or low power when pushed. (p. 10)
- Toggles the lock function ON/OFF when pushed for 1 sec. (p. 11)

⑥ CHANNEL 16 SWITCH [16•C]

- Selects Channel 16 when pushed. (p. 8)
- Selects the call channel when pushed for 1 sec. (p. 8)
- Enters call channel write mode when the call channel is selected and this switch is pushed for 3 sec. (p. 12)

Count on us!

< Intended Country of Use >

☐AT ☐BE ☐CY ☐CZ ☐DK ☐EE
☐FI ☐FR ☐DE ☐GR ☐HU ☐IE
☐IT ☐LV ☐LT ☐LU ☐MT ☐NL
☐PL ☐PT ☐SK ☐SI ☐ES ☐SE
☐GB ☐IS ☐LI ☐NO ☐CH ☐BG
☐RO ☐TR ☐HR

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