



INSTRUCTION MANUAL

VHF MARINE TRANSCEIVERS

IC-M85 IC-M85E

This device complies with Part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

Icom Inc.



Thank you for choosing this Icom product.
This product 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-M85 and IC-M85E.

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.

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. Say your call sign or other description of the vessel (AND 9 digit DSC ID if you have one).
4. "LOCATED AT" (your position).
5. State the nature of the distress and assistance required.
6. Give any other information which might facilitate the rescue.

RECOMMENDATION

CLEAN THE TRANSCIVER THOROUGHLY IN A BOWL OF FRESH WATER after exposure to saltwater, and dry it before operating. Otherwise, the transceiver's keys, switches, and controllers may become unusable, due to salt crystallization, and/or the charging terminals of the battery pack may corrode.

NOTE: If the transceiver's waterproof protection appears defective, carefully clean the transceiver with a soft, damp (fresh water) cloth, then dry it before operating. The transceiver may lose its waterproof protection if the case, jack cap, or connector cover is cracked or broken, or the transceiver has been dropped. Contact your Icom distributor or your dealer for advice.

PRECAUTIONS

⚠ **DANGER! NEVER** short the terminals of the battery pack. Shorting may occur if the terminals touch metal objects such as a key, so be careful when placing the battery packs (or the transceiver) in bags, and so on. Carry them so that shorting cannot occur with metal objects. Shorting may damage not only the battery pack, but also the transceiver.

⚠ **DANGER! NEVER** use or charge Icom battery packs with non-Icom transceivers or non-Icom chargers. Only Icom battery packs are tested and approved for use with Icom transceivers or charged with Icom chargers. Using third-party or counterfeit battery packs or chargers may cause smoke, fire, or cause the battery to burst.

⚠ **DANGER! NEVER** operate the transceiver near unshielded electrical blasting caps or in an explosive atmosphere.

⚠ **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 (2 to 4 inches) away from the lips and the transceiver is vertical.

⚠ **WARNING! NEVER** operate the transceiver with a headset or other audio accessories at high volume levels. The continuous high volume operation may cause a ringing in your ears. If you experience the ringing, reduce the volume level or discontinue use.

CAUTION: DO NOT use harsh solvents such as Benzine or alcohol when cleaning. This could damage the equipment surfaces. If the surface becomes dusty or dirty, wipe it clean with a soft, dry cloth.

CAUTION: DO NOT place or leave the transceiver in excessively dusty environments. This could damage the transceiver.

CAUTION: DO NOT expose the transceiver to rain, snow or any liquids. The transceiver meets IP67 requirements for dust-protection and splash resistance. However, once the transceiver has been dropped, dust protection and splash resistance cannot be guaranteed due to the fact that the transceiver may be cracked, or the waterproof seal damaged, and so on.

DO NOT place or leave the transceiver in direct sunlight or in areas outside of the specified temperature range:

IC-M85: -30°C (-22°F) ~ +60°C (+140°F)

IC-M85E: -25°C ~ +55°C

IC-M85E (Australian version): -10°C ~ +55°C

Keep the transceiver in a secure place to prevent use by unauthorized persons.

BE CAREFUL! Even if the volume level is set low, the beeps of the Man Down, Lone Worker and MOB functions are very loud.

Icom is not responsible for the destruction, damage to, or performance of any Icom or non-Icom equipment, if the malfunction is because of:

- Force majeure, including, but not limited to, fires, earthquakes, storms, floods, lightning, other natural disasters, disturbances, riots, war, or radioactive contamination.
- The use of Icom transceivers with any equipment that is not manufactured or approved by Icom.

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PRÉCAUTIONS (pour le Canada)

⚠ **DANGER! NE JAMAIS** court-circuiter les bornes du bloc-batterie. Un court-circuit peut se produire si les bornes touchent des objets métalliques, tels que des clés, faites donc attention lorsque vous rangez des blocs-batteries (ou l'émetteur-récepteur) dans des sacs, etc. Transportez-les de telle sorte que des courts-circuits ne peuvent se produire avec des objets métalliques. Car cela peut endommager le bloc-batterie ainsi que l'émetteur-récepteur.

⚠ **DANGER! N'utilisez JAMAIS** et ne rechargez JAMAIS des blocs-batteries Icom avec des émetteurs-récepteurs non-Icom ou des chargeurs non-Icom. Seuls les blocs-batteries Icom sont testés et homologués pour être utilisés avec des émetteurs-récepteurs Icom ou pour être rechargés avec des chargeurs Icom. L'utilisation de blocs-batteries ou de chargeurs tiers ou de contrefaçon peut être à l'origine de fumées, d'incendie ou peut faire éclater la batterie.

⚠ **DANGER! NE JAMAIS** utiliser l'émetteur-récepteur à proximité de détonateurs électriques non blindés ou dans une atmosphère explosive.

⚠ **AVERTISSEMENT! NE JAMAIS** tenir le terminal de communication avec l'antenne placée à proximité immédiate ou en contact avec des parties du corps exposées, en particulier le visage ou les yeux, lors des transmissions. Les performances de la radio sont optimales quand le microphone est tenu entre 5 et 10 cm de la bouche de l'utilisateur et quand l'appareil est vertical.

⚠ **AVERTISSEMENT! NE JAMAIS** utiliser l'émetteur-récepteur avec un casque ou tout autre accessoire audio à un niveau sonore élevé. L'utilisation continue à un niveau sonore élevé peut provoquer un bourdonnement dans vos oreilles.

ATTENTION: NE PAS utiliser de dissolvants agressifs tels que du Benzène ou de l'alcool lors du nettoyage, car ils endommageraient les surfaces de l'émetteur-récepteur. Si l'émetteur-récepteur est poussiéreux ou sale, nettoyez-le avec un tissu doux et sec.

ATTENTION: NE PAS placer l'émetteur-récepteur dans des environnements excessivement poussiéreux. Cela pourrait endommager l'émetteur-récepteur.

ATTENTION: NE PAS exposer l'émetteur-récepteur à la pluie, à la neige ou à tout liquide. Cet émetteur-récepteur répond aux exigences de la norme IP67 en matière de protection contre la poussière et de résistance aux éclaboussures. Cependant, en cas de chute de l'émetteur-récepteur, la protection contre la poussière et la résistance aux éclaboussures ne peuvent plus être garanties, car le boîtier risque d'être fissuré ou le joint d'étanchéité endommagé, etc.

NE PAS placer ou laisser l'émetteur-récepteur en plein soleil ou dans un environnement soumis à des températures inférieures à -30°C (-22°F) ou supérieures à $+60^{\circ}\text{C}$ ($+140^{\circ}\text{F}$).

Placez l'émetteur-récepteur dans un lien sûr pour éviter toute utilisation par des personnes non autorisées.

MISE EN GARDE! Même si le niveau de volume est bas, les bips des fonctions Man Down, Lone Worker et MOB sont très forts.

Icom n'est pas responsable de la destruction ou des dommages sur l'émetteur-récepteur Icom, si le dysfonctionnement est causé par:

- Force majeure, sans toutefois s'y limiter, les incendies, tremblements de terre, tempêtes, inondations, la foudre, ou autres catastrophes naturelles, perturbations, émeutes, guerre, ou contamination radioactive.
- L'utilisation de l'émetteur-récepteur Icom avec tout équipement non fabriqué ou approuvé par Icom.

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◇ Priorities

- Read all rules and regulations pertaining to call 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

You may require a current radio station license before using the transceiver. It is unlawful to operate a ship station which is not licensed, but required to be.

If required, contact your dealer or the appropriate government agency for a Ship-Radiotelephone license application. This government-issued license states 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.

If required, the Restricted Radiotelephone Operator Permit must be posted or kept with the operator. If required, 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

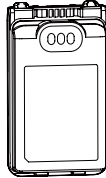
Belt clip



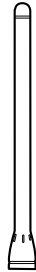
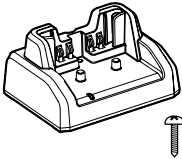
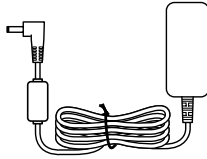
Handstrap



Battery pack



Antenna

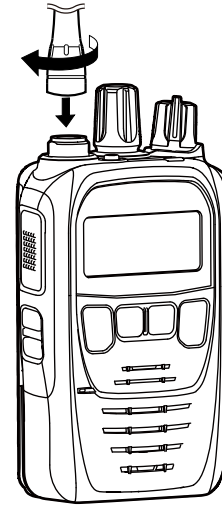
Battery charger
(With a screw)Power adapter
(For Battery charger)

NOTE: Some accessories are not supplied, or the shape is different, depending on the transceiver version.

■ Attaching accessories

◇ Flexible antenna

Connect the supplied flexible antenna to the antenna connector.



CAUTION:

- **DO NOT** carry the transceiver by holding only the antenna.
- **DO NOT** connect an antenna other than those listed in this instruction manual.

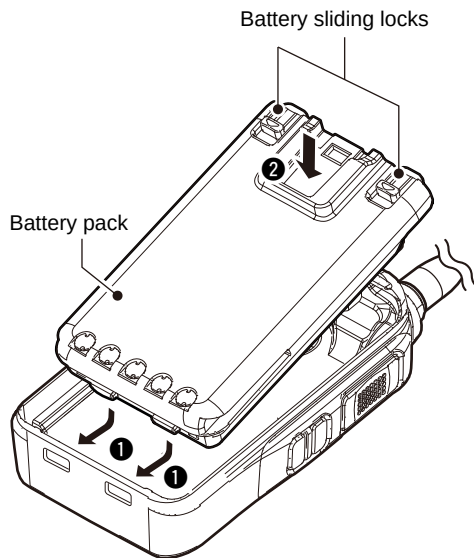
2 ACCESSORIES

◇ Battery pack

CAUTION: DO NOT attach or detach the battery pack when the transceiver is wet or soiled. This may result in water or dust getting into the transceiver/ battery pack and may damage the transceiver.

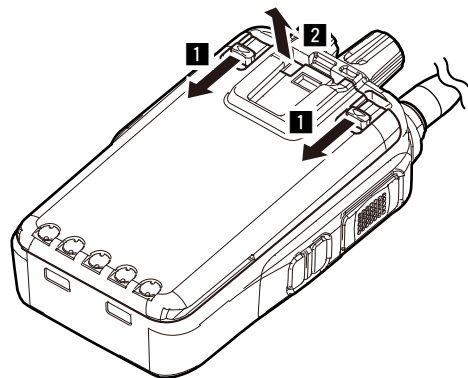
To attach:

1. Slide the battery pack in the direction of the arrow. (1)
2. Push the battery pack until the battery sliding locks make a 'click' sound. (2)



To detach:

1. Pull both battery sliding locks in the direction of the arrow. (1)
2. Lift up to detach the battery pack. (2)

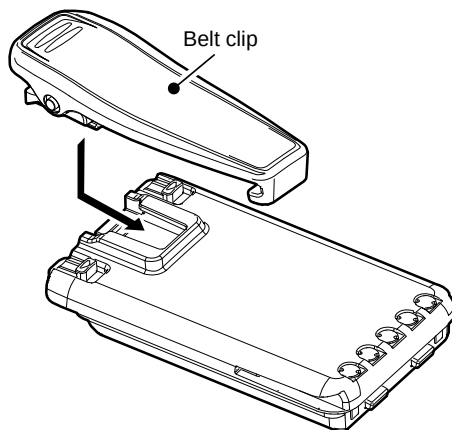


NOTE: Keep the battery pack terminals clean. It's a good idea to occasionally clean them.

◇ Belt clip

To attach:

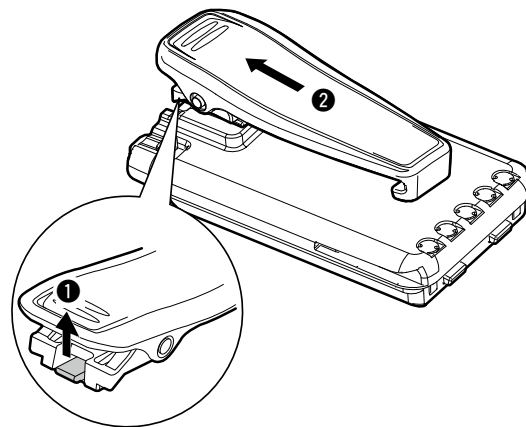
1. Remove the battery pack from the transceiver, if it is attached.
2. Slide the belt clip in the direction of the arrow until the belt clip is locked and makes a 'click' sound.



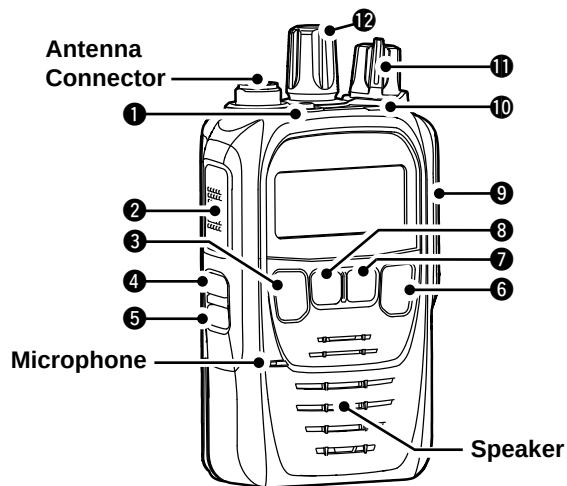
To detach:

Lift the tab up (①), and slide the belt clip in the direction of the arrow (②).

BE CAREFUL! DO NOT break your fingernail.



■ Front, top and side panels



1 LOCK KEY [↔]

Hold down for 1 second to lock or unlock the keypad.

① Push to use the pre-assigned function. Ask dealer for details.

2 PTT SWITCH [PTT]

Hold down to transmit, release to receive.

3 CHANNEL 16/CALL CHANNEL KEY [16/C] (p. 11)

- Push to select Channel 16.

- Hold down for 1 second to select the Call channel.

4 SQUELCH ADJUSTMENT KEY [SQL] (p. 14)

- Push to enter or exit the Squelch Adjustment mode.

- Hold down to open the squelch, to monitor the channel.

5 TRANSMIT POWER KEY [H/L]

- Push to set the power level to high, mid, or low.

① Some channels are set to only low power.

- Hold down for 1 second to display the battery health and battery cycle. (p. 18)

6 FAVORITE CHANNEL KEY [FAV] (p. 16)

- Push to select a Favorite channel.

- Hold down for 1 second to set or clear the selected channel as a Favorite channel.

7 SCAN/DUALWATCH KEY [SCAN]/[DUAL]

- Push to start or stop a scan. (p. 15)

- Hold down for 1 second to start the Dualwatch.* (p. 17)

① While Dualwatch, push to cancel Dualwatch.

*Tri-watch may start, depending on the Set mode settings.

8 WEATHER CHANNEL*/ CHANNEL GROUP KEY [CH/WX]/[U/I/C/L]/[CH]

- Push to enter or exit the Weather Channel Selection mode.* (p. 12)

*Except the European, UK, German, and Dutch versions.

- Hold down for 1 second to change the channel group. (p. 12)

9 MULTI-CONNECTOR

Connects to an optional speaker microphone or headset.

10 STATUS INDICATOR

- Lights red while transmitting.

- Lights green while receiving a signal, or when the squelch is open.

11 VOLUME/POWER SWITCH [VOL]

- Rotate to turn the transceiver ON or OFF.

- Rotate to adjust the audio output level.

12 TUNING DIAL [DIAL]

- Rotate to select a channel.

Count on us!

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