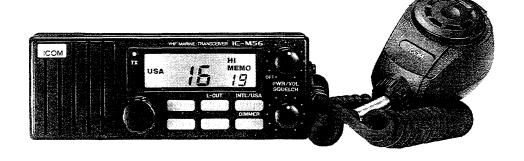


VHF MARINE TRANSCEIVER IC-M56



Icom Inc.

IMPORTANT SAFETY PRECAUTIONS

Before using the transceiver, read all instructions carefully and completely.

SAVE THESE INSTRUCTIONS — This instruction manual contains important safety and operating instructions for the IC-M56.

NEVER connect the transceiver to more than a 16 V DC power source or an AC outlet. This will ruin the transceiver.

NEVER allow children to touch the transceiver.

NEVER put the transceiver in water. **AVOID** using in rain and snow.

AVOID using or placing the transceiver in areas with temperatures below -20°C (-4°F) or over $+60^{\circ}\text{C}$ ($+140^{\circ}\text{F}$).

AVOID placing the transceiver in direct sunlight.

KEEP the antenna cable and DC power cord as far away as possible from electrical pumps, generators and other electrical instruments to prevent instrument malfunctions.

BE CAREFUL! If the transceiver is not securely mounted with bolts and nuts, personal injury or transceiver damage could occur due to wave shock, vibrations, etc.

BE CAREFUL! The heatsink may become hot when the transceiver transmits continuously for a long time.

BE CAREFUL! The transceiver is only weatherresistant when four screws are securely tightened to the sides of the transceiver.

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FOREWORD

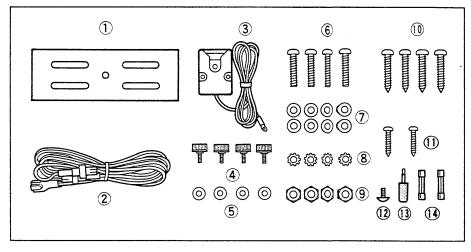
Thank you for purchasing the IC-M56 VHF MARINE TRANSCEIVER. Icom has produced this easy-to-operate marine transceiver using the most advanced technology.

The IC-M56 has the following advanced features:

- Strong weather-resistant, dust-tight case
- Voltage source deviation indicator
- € 25 W of high transmission output power
- Dual watch and a variety of scans
- 20 user-programmed memory channels
- Momentary high power on Channels 13 and 67
- Single-tone, double high-tone and double low-tone beeps
- e High sensitivity and strong intermodulation rejection

To fully appreciate the capabilities of your new IC-M56, please read this instruction manual thoroughly. For further information, please feel free to contact your nearest Icom Dealer or Service Center.

UNPACKING



| | 1 | Mounting bracket | 1 |
|---|-------------|-------------------------------------|--------|
| | 2 | DC power cable (OPC-044A) | 1 |
| | 3 | Microphone hanger cable (OPC-117B) | |
| | 4 | Mounting bracket knobs | |
| | (5) | Flat washers (M4) | |
| | 6 | Mounting screws (M5 x 20) | |
| | 7 | Flat washers (M5) | |
| | 8 | Star washers (M5) | |
| • | 9 | Nuts (M5) | |
| | (10) | Mounting screws (A0 5 x 20) | |
| | (1) | Mic hanger screws (A0 3.5 x 30) | |
| | (12) | Ground screw for OPC-117B (M3 x 10) | |
| | (13) | External speaker plug | _ |
| | <u>(14)</u> | Fuses (10 A) | ・ つ |
| | _ | | - |

(1) PRIORITIES

- 1) 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.
- 2) You must monitor Channel 16 while you do not operate on another channel.
- 3) False or fraudulent distress signals are prohibited and punishable by law.

(2) PRIVACY

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

(3) 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 application. Your 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. You can usually obtain this permit by mail.

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, and ends the call, and makes the necessary log entries.

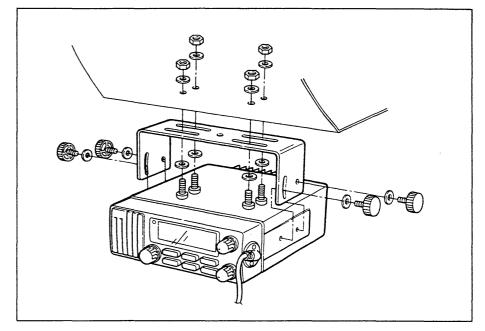
A current copy of the applicable government rules and regulations is usually required to be kept.

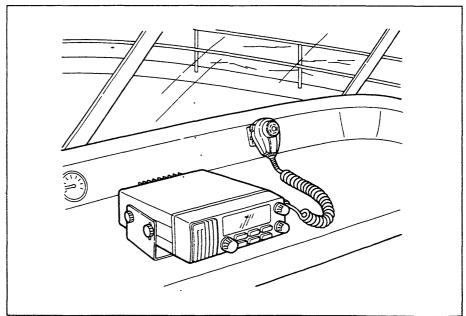
INSTALLATION

(1) MOUNTING THE TRANSCEIVER

The universal bracket supplied with your transceiver allows "overhead" or "dashboard" mounting. Please read the following instructions carefully.

- Install the bracket so the transceiver is adequately supported, thus protecting it from wave shock and vibrations.
- Try to avoid drilling new mounting holes in the bracket, as the balance of the transceiver may be affected.
- An optional MB-28 FLUSH MOUNT is available from lcom. If you need special hardware for installation, any good marine store may assist you.





INSTALLATION 2

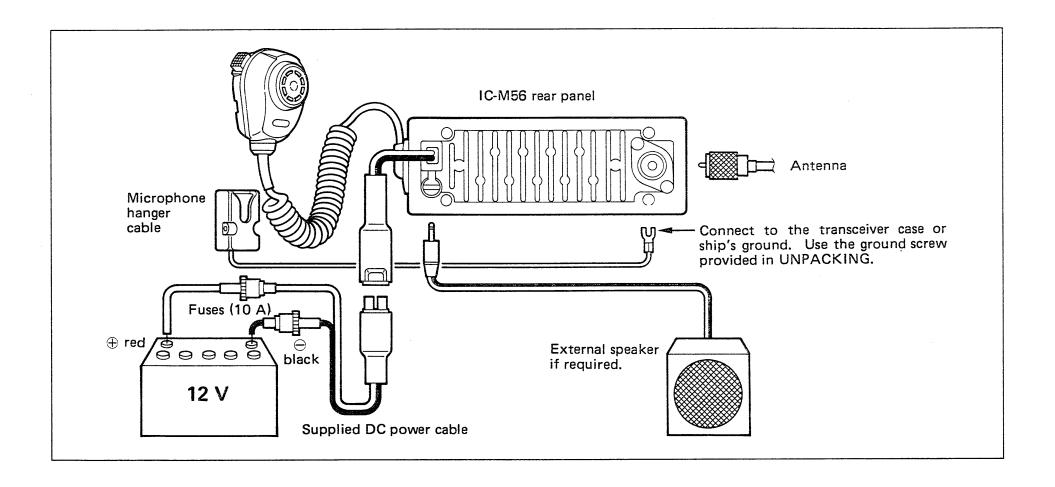
(2) CONNECTION

Use a 12 V DC power source and be sure of the following points:

- AVOID long cable runs to the antenna and power source.
- **KEEP** these cables as far as possible from electrical pumps, generators and other electronic instruments.

(3) ANTENNA

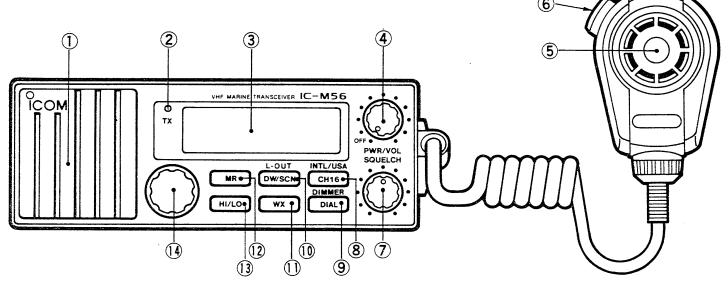
The single, most important item that influences the performance of any communication system is the antenna. Ask your dealer about antennas and the best place to mount them.



3

PANEL DESCRIPTION

3-1 FRONT PANEL



- 1 SPEAKER
- ② TX INDICATOR [TX]
 Lights when transmitting.
- 3 FUNCTION DISPLAY

Displays the current operating channel and additional information. Refer to Section 3 - 3 FUNCTION DISPLAY.

- 4 VOLUME CONTROL/POWER SWITCH [PWR/VOL] Turns power ON and OFF and adjusts the speaker volume.
- **5** MICROPHONE

6 PTT (Push-To-Talk) SWITCH
Push and hold to transmit and release to receive.

7 SQUELCH CONTROL [SQUELCH]

Rotate clockwise to eliminate audio noise.

When a signal is received, the squelch opens and audio is emitted from the speaker.

8 CHANNEL 16 SWITCH [CH 16]

Selects Channel 16. Used for emergency and distress calls and as call channel.

While pushing [HI/LO], push this switch to select the U.S.A. or International channels.

9 DIAL SWITCH [DIAL]

Selects the dial mode.

While pushing [HI/LO], push this switch to turn ON and OFF the function display backlight.

100 DUAL WATCH AND SCAN SWITCH [DW/SCN]

Push this switch to start dual watch. Push and hold this switch to start scanning.

While pushing [HI/LO], push this switch to program or cancel the lockout function for a specific channel.

① WEATHER CHANNEL SWITCH [WX]

Selects the weather channel mode.

12 MEMORY SWITCH [MR]

Push this switch to select the memory mode. Push and hold this switch to write a memory.

13 TRANSMIT POWER SWITCH [HI/LO]

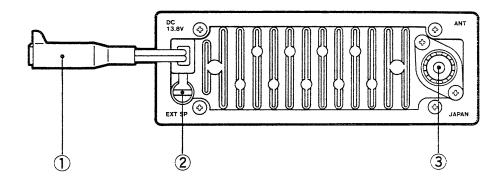
Selects the high or low transmitter output power.

This switch also activates the secondary function of the [DW/SCN], [CH 16] and [DIAL] switches. The secondary function is printed above the switch.

(14) CHANNEL SELECTOR

Selects an operating channel.

3-2 REAR PANEL



1) DC POWER CONNECTOR

Connect the supplied DC power cable from this connector to an external 12 V DC power source.

② EXTERNAL SPEAKER JACK

4 Ω speaker jack.

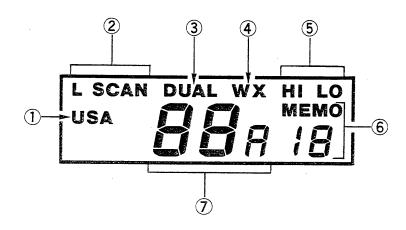
3 ANTENNA CONNECTOR

Connects an antenna with a PL-259 connector to the transceiver.

CAUTION: Transmitting without an antenna will damage the transceiver.

3 PANEL DESCRIPTION

3-3 FUNCTION DISPLAY



1 U.S.A. CHANNEL INDICATOR

"USA" appears when U.S.A. channels are selected. There is no indicator for international channels.

2 SCAN INDICATOR

- "SCAN" appears while scanning.
- "L SCAN" appears while scanning if channels have been locked out.
- "L" appears when a channel has been locked out.

3 DUAL WATCH INDICATOR

Appears during dual watch operation.

4 WEATHER CHANNEL INDICATOR

Appears when receiving on a weather channel.

5 TRANSMIT POWER INDICATOR

Displays transmit output power "HI" (HIGH) or "LO" (LOW).

Blinks when the power source is more than 16.5 V ("HI") or less than 11 V ("LO").

CAUTION: When these indicators blink, disconnect the DC power cable and check the power source.

6 MEMORY INDICATOR

Displays "MEMO" and the memory channel number when the memory mode is selected.

⑦ CHANNEL INDICATOR

Displays the operating channel.

BASIC OPERATION



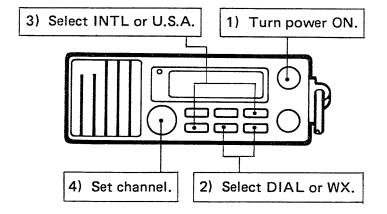
4-1 SELECTING A CHANNEL

- 1) Rotate [PWR/VOL] clockwise to turn ON power.
 - Channel 16 is displayed.
- 2) Select your desired mode.

• Dial mode : push [DIAL].

• Weather channel mode: push [WX].

- 3) When you have pushed [DIAL], select U.S.A. or international channels. If you have pushed [WX], proceed to step 4.
 - To switch between U.S.A. and International channels. push and hold [HI/LO] and then push [CH 16]
- 4) Rotate the channel selector to set your desired channel.



4-2 INSTANT ACCESS **TO CHANNEL 16**

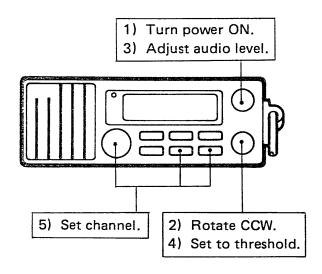
Channel 16 is an emergency, distress and call channel. Access Channel 16 instantly in any of the following ways:

- (1) Push [CH 16]
- 2 Turn power OFF and then turn it ON again.
- 3 Hang the microphone on the microphone hook.

4 BASIC OPERATION

4-3 RECEIVING

- 1) Rotate [PWR/VOL] to turn ON power.
- 2) Rotate [SQUELCH] completely counterclockwise.
- 3) Adjust [PWR/VOL] to a suitable audio level.
- 4) Rotate [SQUELCH] clockwise until the noise is quieted.
- 5) To set the desired channel, refer to Section 4 1 SE-LECTING A CHANNEL.
 - When a signal is received, the squelch opens and audio is emitted from the speaker.



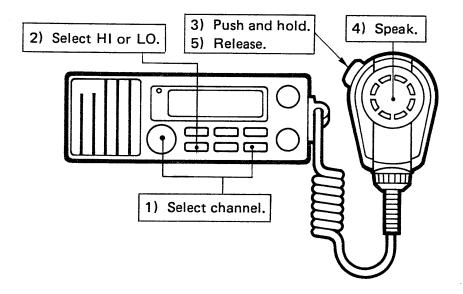
4-4 TRANSMITTING

CALL PROCEDURES

You must identify yourself when you transmit and you must respect time limits.

- 1) Give your call sign each time you call another vessel or a coast station. If you have no call sign, identify the station by giving the vessel name and the name of the licensee.
- 2) Give your call sign at the end of each transmission that lasts more than 3 minutes.
- 3) You must break and give your call sign at least once every 15 minutes during long ship-to-shore calls.
- 4) Keep your calls short (less than 30 seconds). Wait 2 minutes before repeating the call.
- 5) Unnecessary transmissions are not allowed.

- 1) Select the operating channel. See Section 4 1 for details.
- 2) Push [HI/LO] to select transmit power.
 - Either "HI" or "LO" is displayed.
 - Transmission is restricted on some channels.
- 3) Push and hold the PTT switch to transmit.
 - The red [TX] indicator lights.
- 4) Speak into the microphone at your normal voice level.
 - Do not hold the microphone close to your mouth or speak with a loud voice. This may distort the signal.
- 5) Release the PTT switch to receive.



TRANSMITTER RESTRICTIONS

| CHANNEL NUMBER | U.S.A. CHANNELS | INTERNATIONAL CHANNELS | | | |
|---------------------|--------------------------|------------------------|--|--|--|
| . 13 | Momentary high power* | No restriction | | | |
| · 15 | Receive only | Low power only | | | |
| 17 | Low power only | Low power only | | | |
| 67 | Momentary high power* | No restriction | | | |
| WEATHER CHANNELS | Receive only | | | | |

*MOMENTARY HIGH POWER:

On these channels, transmissions using high power are momentarily possible. To transmit using high power, push and hold [HI/LO] and [PTT].

5-1 MEMORY CHANNEL

The transceiver has 20 memory channels. The memory channels are especially useful to quickly call up channels you often use.

(1) READING A MEMORY CHANNEL

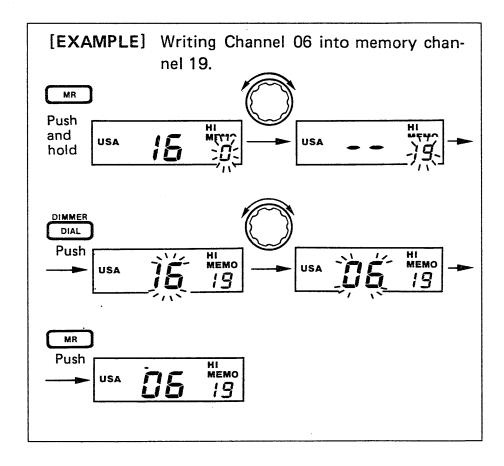
- 1) Push [MR] to select the memory mode.
- 2) Rotate the channel selector to select the desired channel.

NOTE: Only channels you have already programmed can be selected. If no memory channel is programmed, the channel selector is deactivated.

(2) WRITING A MEMORY CHANNEL

- 1) Push and hold [MR] until the memory channel number blinks.
- 2) Rotate the channel selector to select the desired memory channel number.
- 3) Push [DIAL] or [WX] to select the desired mode.
 - When the dial mode has been selected, choose U.S.A. or international channels.

- 4) Rotate the channel selector to select the desired channel you want to program.
 - When the dial mode has been selected in step 3, choose high or low transmit programming.
- 5) Push [MR] to complete programming.



5-2 DUAL WATCH

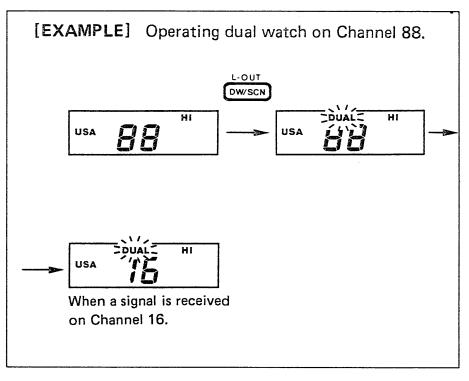
The dual watch function monitors Channel 16 while you use another channel.

• If a signal is received on Channel 16, dual watch stops on

Channel 16 until the signal disappears.

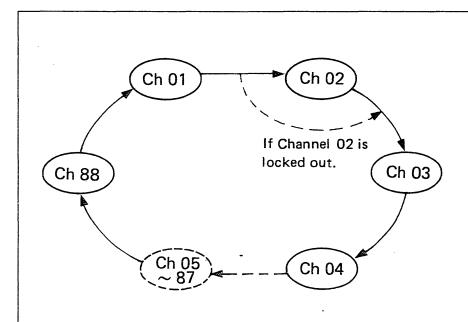
• During dual watch, you cannot transmit on Channel 16.

- 1) Select the desired operating channel.
 - When Channel 16 is selected, dual watch deactivates.
- 2) Rotate [SQUELCH] until the audio noise disappears.
- 3) Push [DW/SCN] to start the dual watch function.
 - "DUAL" blinks on the function display.
- 4) Push [DW/SCN] again to cancel the dual watch function.



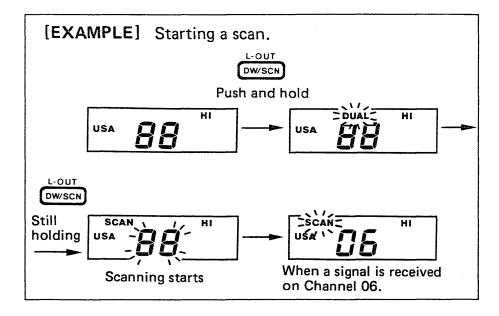
5-3 SCANNING

The transceiver has three scans: dial scan, weather channel scan and memory scan. Scanning skips over channels that are locked out.



- When a signal is received, scanning stops and "SCAN" blinks on the function display until the signal disappears.
- Transmitting during a scan cancels the scan.
- The channel selector is deactivated while scanning.

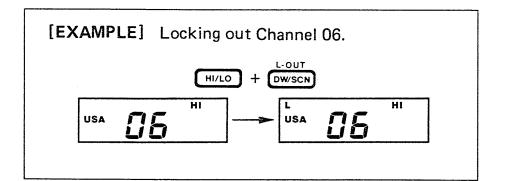
- 1) Select the desired mode.
 - Push [DIAL] for the dial mode.
 - Push [WX] for the weather channel mode.
 - Push [MR] for the memory mode.
- 2) Rotate [SQUELCH] until the audio noise disappears.
- 3) Push and hold [DW/SCN] until "SCAN" appears on the function display.
 - Scanning starts after "DUAL" blinks twice and three beeps are heard.
- 4) To cancel the scanning, push [DW/SCN] again.



B CHANNEL LOCKOUT

This function allows you to skip certain channels while scanning, shortening interval scanning time.

- 1) To select the desired mode, push [DIAL], [WX] or [MR].
- 2) Rotate the channel selector to select the channel to be locked out.
- 3) While pushing [HI/LO], push [DW/SCN].
 - "L" appears on the function display.
- 4) To cancel the lockout function for that channel, repeat step 3.



5-4 DIMMER CONTROL

The backlight intensity of the function display can be adjusted or turned OFF.

(1) TURNING OFF THE BACKLIGHT

- 1) While pushing [HI/LO] push [DIAL] to turn OFF the display backlight.
- 2) To turn the backlight ON again, repeat step 1.

(2) ADJUSTING THE BACKLIGHT

- 1) While pushing [HI/LO], push and hold [DIAL].
- 2) Hold [DIAL], release [HI/LO], then rotate the channel selector.
 - The backlight intensity changes.

6 MAINTENANCE

6-1 TROUBLESHOOTING

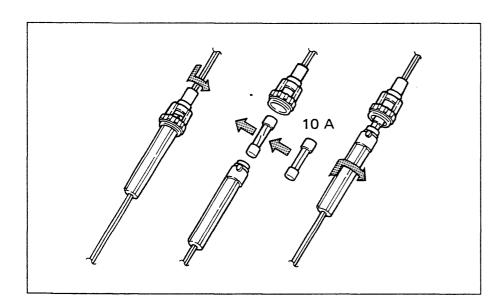
| PROBLEM | POSSIBLE CAUSE | SOLUTION | | | |
|---|--|--|--|--|--|
| ● No power. | Power connector has a poor contact. Blown fuse. | Check the connector pin. Check the polarity of the power connection, then replace the fuse. | | | |
| No sound from the speaker. | [SQUELCH] is turned too far clockwise. An external speaker or cable is broken, if connected. | Rotate [SQUELCH] counterclockwise. Unplug the external speaker jack. | | | |
| Sensitivity is low and only strong signals are audible. | Antenna feedline is cut or short-circuited. | • Check the feedline and correct any improper condition. | | | |
| | Bad connection at the antenna connector. | Check the antenna connector and clean the center conductor of the plug. | | | |
| Cannot transmit at high power or cannot transmit at all. | Transmission is restricted on some channels. | • See page 9 for details. | | | |
| The displayed channel does not change. | Channel 16 is selected. | Push [DIAL] then rotate the channel selector. | | | |
| • The memory channel cannot be changed. | • Memory channels have not been programmed. | Program at least two memory channels. See p. 10. | | | |
| Scanning or dual watch does not function. | Channel 16 is displayed. The squelch opens. Memory channels have not been programmed if operating the memory scan. | Push [DIAL] then start scanning. Rotate [SQUELCH] clockwise. Program at least two memory channels. See p. 10. | | | |
| The function display occasionally displays erroneous information. | The internal CPU has malfunctioned. | Reset the CPU. See p. 15. | | | |

MAINTENANCE 6

6-2 FUSE REPLACEMENT

Two fuses are installed in the DC power cable. If the fuses blow or the transceiver stops functioning, track down the source of the problem, if possible, and replace the damaged fuse with a new, rated fuse.

• Fuse rating : 10 A

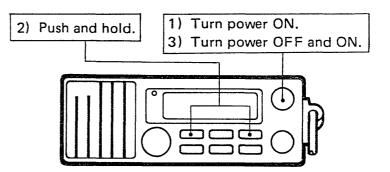


6-3 RESETTING THE CPU

If the function display occasionally displays erroneous information when the power is turned ON or when operating, reset the CPU.

BE CAREFUL! After resetting the CPU, all information you have programmed into the memory channels will be erased.

- 1) Turn power ON.
- 2) Push and hold [CH 16] and [MR].
- 3) Turn power OFF and then turn it ON again.
 - The function display illuminates all characters for a second.
- 4) Release [CH 16] and [MR].



6 MAINTENANCE

6-4 BACKUP BATTERY

The built-in lithium battery retains the information programmed into the memory channels. The life of the lithium battery is approximately five years. If the battery is exhausted, the transceiver operates normally but the information in the memory channels is not retained.

NOTE: Backup battery replacement **MUST** be done by an authorized Icom Dealer or Icom Service Center.

6-5 CLEANING

If the transceiver becomes dusty or dirty, wipe it clean with a dry, soft cloth.

AVOID the use of strong chemical agents such as benzine or alcohol, as they may damage the transceiver's surfaces.

Tech Talk from Icom

- Q. How far does a signal reach when transmitted over a sea or lake?
- A. For practical purposes, there is very little signal propagation beyond the line-of-sight range when using VHF frequencies.

In theory, the distance of possible communication between 2 stations is obtained using the following formula:

D (nm) =
$$1.22 \times (\sqrt{h1} + \sqrt{h2})$$

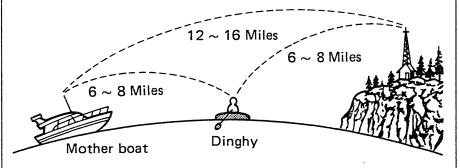
D: Distance h1, h2: Antenna height (ft)

For instance, where h1 = 8 ft and h2 = 8 ft, the distance is:

D (nm) =
$$1.22 \times (\sqrt{8} + \sqrt{8})$$

= Approx. 7 nm = Approx. 8 miles

TYPICAL APPLICATION



Depending on weather conditions and your location, some signals may not reach 8 miles and others may extend beyond 8 miles.

| Channel | Frequency (MHz) | | Transmit | Channel | Frequency (MHz) | | Transmit | Channel | Frequency (MHz) | | Transmit |
|---------|-----------------|---------|--------------|---------|-----------------|---------|--------------|---------|-----------------|---------|--------------|
| No. | Transmit | Receive | output power | No. | Transmit | Receive | output power | No. | Transmit | Receive | output power |
| 01 | 156.050 | 160.650 | 25 W & 1 W | 23 | 157.150 | 161.750 | 25 W & 1 W | 78A | 156.925 | 156.925 | 25 W & 1 W |
| 01A | 156.050 | 156.050 | 25 W & 1 W | 23A | 157.150 | 157.150 | 25 W & 1 W | 79 | 156.975 | 161.575 | 25 W & 1 W |
| 02 | 156.100 | 160.700 | 25 W & 1 W | 24 | 157.200 | 161.800 | 25 W & 1 W | 79A | 156.975 | 156.975 | 25 W & 1 W |
| · 02A | 156.100 | 156.100 | 25 W & 1 W | 25 | 157.250 | 161.850 | 25 W & 1 W | 80 | 157.025 | 161.625 | 25 W & 1 W |
| 03 | 156.150 | 160.750 | 25 W & 1 W | 26 | 157.300 | 161.900 | 25 W & 1 W | 80A | 157.025 | 157.025 | 25 W & 1 W |
| 03A | 156.150 | 156.150 | 25 W & 1 W | 27 | 157.350 | 161.950 | 25 W & 1 W | 81 | 157.025 | 161.675 | 25 W & 1 W |
| 04 | 156.200 | 160.800 | 25 W & 1 W | 28 | 157.400 | 162.000 | 25 W & 1 W | 81A | 157.075 | 157.075 | 25 W & 1 W |
| 04A | 156.200 | 156.200 | 25 W & 1 W | 60 | 156.025 | 160.625 | 25 W & 1 W | 82 | 157.125 | 161.725 | 25 W & 1 W |
| 05 | 156.250 | 160.850 | 25 W & 1 W | 60A | 156.025 | 156.025 | 25 W & 1 W | 82A | 157.125 | 157.125 | 25 W & 1 W |
| 05A | 156.250 | 156.250 | 25 W & 1 W | 61 | 156.075 | 160.675 | 25 W & 1 W | 83 | 157.175 | 161.775 | 25 W & 1 W |
| 06 | 156.300 | 156.300 | 25 W & 1 W | 61A | 156.075 | 156.075 | 25 W & 1 W | 83A | 157.175 | 157.175 | 25 W & 1 W |
| 07 | 156.350 | 160.950 | 25 W & 1 W | 62 | 156.125 | 160.725 | 25 W & 1 W | 84 | 157.225 | 161.825 | 25 W & 1 W |
| 07A | 156.350 | 156.350 | 25 W & 1 W | 62A | 156.125 | 156.125 | 25 W & 1 W | 84A | | 157.225 | 25 W & 1 W |
| 08 | 156.400 | 156.400 | 25 W & 1 W | 63 | 156.175 | 160.775 | 25 W & 1 W | 85 | | 161.875 | 25 W & 1 W |
| 09 | 156.450 | 156.450 | 25 W & 1 W | 63A | 156.175 | 156.175 | 25 W & 1 W | 85A | 157.275 | 157.275 | 25 W & 1 W |
| 10 | 156.500 | 156.500 | 25 W & 1 W | 64 | 156.225 | 160.825 | 25 W & 1 W | 86 | 157.325 | 161.925 | 25 W & 1 W |
| 11 | 156.550 | 156.500 | 25 W & 1 W | 64A | 156.225 | 156.225 | 25 W & 1 W | 86A | 157.325 | 157.325 | 25 W & 1 W |
| 12 | 156.600 | 156.600 | 25 W & 1 W | 65 | 156.275 | 160.875 | 25 W & 1 W | 87 | 157.375 | 161.975 | 25 W & 1 W |
| 13 | 156.650 | 156.650 | 25 W & 1 W | 65A | 156.275 | 156.275 | 25 W & 1 W | 87A | 157.375 | 157.375 | 25 W & 1 W |
| 14 | 156.700 | 156.700 | 25 W & 1 W | 66 | 156.325 | 160.925 | 25 W & 1 W | 88 | 157.425 | 162.025 | 25 W & 1 W |
| 15 | 156.750 | 156.750 | 1 W only | 66A | 156.325 | 156.325 | 25 W & 1 W | 88A | 157.425 | 157.425 | 25 W & 1 W |
| 16 | 156.800 | 156.800 | 25 W & 1 W | 67 | 156.375 | 156.375 | 25 W & 1 W | | | | |
| 17 | 156.850 | 156.850 | 1 W only | 68 | 156.425 | 156.425 | 25 W & 1 W | WX 1 | | 162.550 | RX only |
| 18 | 156.900 | 161.500 | 25 W & 1 W | 69 | 156.475 | 156.475 | 25 W & 1 W | WX 2 | | 162.400 | RX only |
| 18A | 156.900 | 156.900 | 25 W & 1 W | 70 | 156.525 | 156.525 | 1 W only | WX 3 | | 162.475 | RX only |
| 19 | 156.950 | 161.550 | 25 W & 1 W | 71 | 156.575 | 156.575 | 25 W & 1 W | WX 4 | | 162.425 | RX only |
| 19A | 156.950 | 156.950 | 25 W & 1 W | 72 | 156.625 | 156.625 | 25 W & 1 W | WX 5 | | 162.450 | RX only |
| 20 | 157.000 | 161.600 | 25 W & 1 W | 73 | 156.675 | 156.675 | 25 W & 1 W | WX 6 | | 162.500 | RX only |
| 20A | 157.000 | 157.000 | 25 W & 1 W | 74 | 156.725 | 156.725 | 25 W & 1 W | WX 7 | | 162.525 | RX only |
| 21 | 157.050 | 161.650 | 25 W & 1 W | 75 | | | Guard | WX 8 | | 161.650 | RX only |
| 21A | 157.050 | 157.050 | 25 W & 1 W | 76 | | | Guard | WX 9 | | 161.775 | RX only |
| 22 | 157.100 | 161.700 | 25 W & 1 W | 77 | 156.875 | 156.875 | 25 W & 1 W | WX10 | | 163.275 | RX only |
| 22A | 157.100 | 157.100 | 25 W & 1 W | 78 | 156.925 | 161.525 | 25 W & 1 W | | | | |

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SPECIFICATIONS

GENERAL

• Type of emission : 16K0G3E

ullet Antenna impedance : 50 Ω

• Usable temperature range : $-20^{\circ}\text{C} \sim +60^{\circ}\text{C} (-4^{\circ}\text{F} \sim +140^{\circ}\text{F})$

• Frequency stability : ±0.0005 %

Power supply voltage : 13.8 V DC negative ground

• Dimensions : 140 (W) x 55 (H) x 155 (D) mm, 5.5 (W) x 2.2 (H) x 6.1 (D) in

(Projections not included)

• Weight : 1.1 kg (2.4 lb)

■ RECEIVER

• Frequency range : $156 \sim 163 \text{ MHz}$

ullet Sensitivity : 0.3 μ V for 12 dB SINAD

ullet Audio output power : 4 W with a 4 Ω load

© Intermediate frequency : 1st 21.8 MHz, 2nd 455 kHz

© Current drain : 190 mA (standby condition with no display backlight)

1.0 A (at max. audio with brightest display)

TRANSMITTER

• Frequency range : $156 \sim 157.5 \text{ MHz}$

Output power : HIGH 25 W, LOW 1 W

ullet Microphone impedance : 600 Ω

© Current drain : 5.5 A at HIGH output power

1.4 A at LOW output power

IN CASE OF EMERGENCY

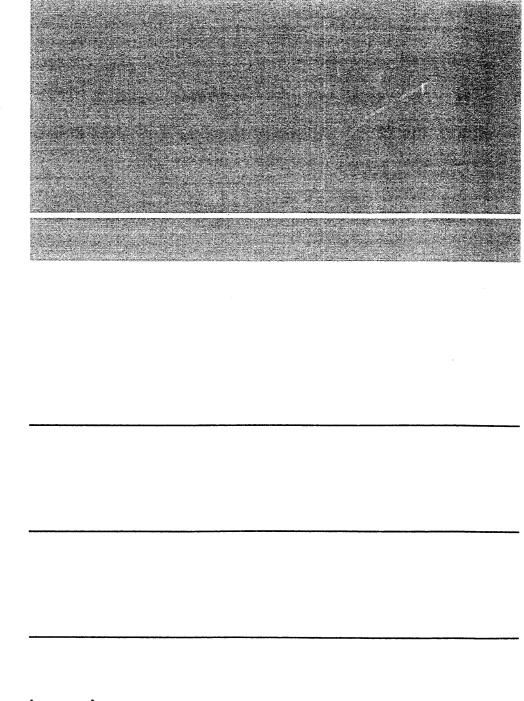
9

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

DISTRESS CALL PROCEDURE

- 1. "MAYDAY MAYDAY MAYDAY"
- 2. "THIS IS "
- " (name of vessel)
- 3. "LOCATED AT " (vessel's position)
- 4. Give the reason for the distress call.
- 5. Explain what assistance you need.
- 6. Give additional information:
 - Vessel type
 - Vessel length
 - Vessel color

Count on us!



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