FOREWORD

Icom has put the multi-functional complexity of larger marine transceivers into an advanced new handheld — the IC-M11 VHF MARINE TRANSCEIVER.

Beautifully designed, compact, light and easy to use, the IC-M11 is equipped with the following advanced features:

- 6W of high output power
- Splash-resistant, dust-tight case with molded frame design
- All marine channels pre-programmed
- Icom’s new TRI watch function
- 24 user-programmable memory channels
- 3 separate scan functions

Please read this instruction manual carefully before operating your new IC-M11. Also, visit your nearest authorized Icom Dealer if you have questions relating to the operation of the transceiver.

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1. CM-7G BATTERY PACK ................. 1
2. Antenna rubber cap .................. 1
3. Flexible antenna ...................... 1
4. Handstrap clip ....................... 1
5. Handstrap .......................... 1
6. Belt clip .......................... 1
7. Wall charger ....................... 1
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1. CONTROL FUNCTIONS

1 - 1 FRONT AND SIDE PANELS

- **INTERNAL MICROPHONE**
- **INTERNAL SPEAKER**
- **TRANSMIT INDICATOR** (p. 12)
  Lights up while transmitting.
- **FUNCTION SWITCH**
  Selects the secondary function of some switches when pushed and held.
- **PTT SWITCH** (p. 12)
  Selects transmitting.
- **LIGHT SWITCH** (p. 21)
  Lights up the FUNCTION DISPLAY. The backlight goes out after 5 seconds if other switches are not pushed.
- **BATTERY PACK RELEASE BUTTON** (p. 5)
  Removes the battery pack from the transceiver while pushed upwards.
- **CHARGER JACK A** (p. 5)
  Is used for charging the battery pack with the supplied wall charger.
- **CM-7G BATTERY PACK** (p. 6)
  Must be fully charged prior to using the transceiver.
CONTROL FUNCTIONS 1.

- CHANNEL 16 SWITCH (p. 9)
  Selects Channel 16, the marine emergency channel for distress calls.

- HIGH/LOW SWITCH (p. 12)
  Selects output power.
  - HIGH: 6W. Greater coverage for long distance transmissions.
  - LOW: 1W. Low output power for conserving battery life.

- EXTERNAL MIC JACK
  Accepts an optional EM-46L SPEAKER-MICROPHONE. The internal mic does not function when an external mic is connected.

- EXTERNAL SPEAKER JACK
  Connect an 8Ω external speaker to this jack. The internal speaker will not function when an external speaker is connected.

- LOCK SWITCH (p. 21)
  Prevents accidental changes of the operating channel.

- CHARGER JACK B (p. 5)
  Is used for charging the battery pack with external 13.8V DC power source.

- BATTERY CHARGE INDICATOR (p. 6)
  Lights up while the battery pack is being charged with the supplied wall charger.
1. CONTROL FUNCTIONS

1 - 2 TOP PANEL

**ANTENNA CONNECTOR**
Connect the supplied flexible antenna here.

**CAUTION:**
Transmitting without an antenna may damage the transceiver.

**FUNCTION DISPLAY** (p. 4)

**POWER SWITCH/VOLUME CONTROL** (p. 9)
Turns ON the power and varies the audio level.

**SQUELCH CONTROL** (p. 11)
Sets the squelch threshold point.

**SCAN/WATCH FUNCTION SELECTOR SWITCH** (p. 16)
Selects either the scan or watch functions.

**CHANNEL MODE SELECTOR SWITCH** (p. 10)
Selects either the marine or weather channel.
- [INTL/USA]:
  International and U.S.A. marine channels
- [WX]:
  Weather channels

**MEMORY MODE SELECTOR SWITCH** (p. 13)
Selects MEMORY mode from any of the 3 channel modes.

**DIAL MODE SELECTOR SWITCH** (p. 9, 14)
Selects DIAL mode from any of the 3 channel modes.

**CHANNEL UP/DOWN SWITCH** (p. 10)
Changes operating, weather and memory channels.
1 - 3 FUNCTION DISPLAY

1. LOCKOUT CHANNEL INDICATOR (p. 17)
Indicates that the displayed channel is locked out. The channel is skipped during scanning.

2. SCAN INDICATOR (p. 16)
Indicates that the scan function is operating.

3. CHANNEL MODE INDICATOR (p. 10)
Indicates channel modes such as an international or U.S.A. marine channel.
- U.S.A. channel: "USA" appears.
- International channel: No indication

4. WEATHER CHANNEL INDICATOR (p. 10)
Indicates the operating weather channel number.

5. LOCK FUNCTION INDICATOR (p. 21)
Indicates that the LOCK function is operating.

6. MEMORY CHANNEL INDICATOR (p. 13)
Indicates the operating memory channel number.

7. CHANNEL NUMBER INDICATOR
Indicates the operating channel number.

8. TRANSMIT POWER INDICATOR (p. 12)
Indicates the operating output power.
- LOW power: "LOW" appears
- HIGH power: No indication

9. DUAL AND TRI WATCH INDICATOR (p. 19)
Lights up when either the DUAL or TRI WATCH function is operating.
2. PRE-OPERATION

2-1 CHARGING CONNECTIONS

To AC Outlet (Receptacle)

Wall Charger

24V-type Cigarette Lighter Socket

DM-2

IC-CM1

12V-type Cigarette Lighter Socket

* The DC power plug is not included with the transceiver.

External 13.8V DC Power Source

DC plug connections

To AC Outlet (Receptacle)

CM-35 AC BATTERY CHARGER

- REMOVING THE BATTERY PACK

Push the battery pack release button upwards, and slide the battery pack to the right to remove it from the transceiver.
2 - 2 BATTERY PACK CHARGING

Prior to using the transceiver for the first time, the battery pack must be fully charged for optimum life and operation.

1) Connect the supplied wall charger to CHARGER JACK A.

2) Charge the battery pack for about 15 hours.
   • The BATTERY CHARGE INDICATOR lights up while charging.
   • The battery pack need not be attached to the transceiver for charging. However, if it is, be sure to turn the transceiver OFF.

<table>
<thead>
<tr>
<th>CHARGER MODEL</th>
<th>CM-35</th>
<th>CM-60A</th>
<th>IC-CM1</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHARGE TIME</td>
<td>1.5hrs.</td>
<td>5hrs.</td>
<td>15hrs.</td>
</tr>
</tbody>
</table>

■ BATTERY PACK NOTE

The full charge capacity of NiCd batteries may be reduced if repeatedly charged with only partial discharge periods. This is called the Battery Memory Effect. If the battery capacity seems lower than when new, discharge the battery completely through normal use, then charge fully using the proper charger.

■ BATTERY PACK CAUTIONS

- **NEVER** throw the battery pack into a fire. Internal battery gas may cause an explosion.

- **NEVER** put the battery pack in water. If the battery pack is wet, be sure to wipe it dry.

- **NEVER** short the terminals on the top panel of the battery pack. Use the plastic insulator strip provided to prevent this.

- **NEVER** replace the battery cells. NiCd battery packs can normally be recharged 300 times. After this a new battery pack must be purchased.
2. PRE-OPERATION

2-3 ACCESSORIES ATTACHMENT

**BELT CLIP ATTACHMENT**

Attach the belt clip to the back panel using the supplied screws and washers.

Screws and washers are pre-attached to the transceiver rear panel.

**HANDSTRAP ATTACHMENT**

1) Insert the handstrap clip as shown in Fig. A.

2) Slide the handstrap holder through the hole in the handstrap clip.

Fig. A

Fig. B
2 - 4 OPERATING RULES
AND GUIDELINES

◆ PREVENT INTERFERENCE
Before transmitting, monitor the channel you wish to use to avoid interrupting transmissions in progress.

◆ PRIORITIES
1) Read all the rules and regulations relating to priorities, and keep an up-to-date copy handy. Safety and distress calls take priority over all others.

2) You MUST monitor and be able to transmit on Channel 16.

3) It is unlawful and prohibited to transmit false or fraudulent distress calls.

◆ CALL PROCEDURES
Calls must be properly identified and time limits must be respected.

1) Give your call sign each time you call another vessel or 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 of more than 3 minutes duration.

3) You must break and give your call sign at least once every 15 minutes during long ship-to-shore calls.

4) Keep your unanswered calls short (less than 30 seconds) and do not repeat a call for 2 minutes.

5) Unnecessary transmissions are not allowed.

◆ PRIVACY
1) Information overheard but not intended for you cannot lawfully be used in any way.

2) Indecent or profane language is prohibited.
3. BASIC OPERATION

3 - 1 SELECTING A CHANNEL

SELECTING CHANNEL 16

1) Turn power ON.

2) Turn power OFF then turn power ON again.

1) Rotate the [OFF/VOL] CONTROL and turn the transceiver power ON.
   • "USA" and "16" appear on the FUNCTION DISPLAY.
   • The transceiver selects Channel 16.

2) Turn the transceiver power OFF then turn the power ON again.
   • The transceiver selects Channel 16 each time when turning power ON.

SELECTING CHANNEL 16 USING THE [CH 16] SWITCH

The [CH 16] SWITCH quickly selects Channel 16 from any mode.

1) Push the [CH 16] SWITCH to select channel 16.
   • Speaker emits a beep tone.

2) Push the [DIAL] SWITCH to return to the previously displayed frequency.

Example 1: Selecting Channel 16 quickly.

Example 2: Selecting Channel 16 using the [CH 16] SWITCH.
SELECTING A CHANNEL

1) Turn power ON.
   • "USA" and "16" appear on the FUNCTION DISPLAY.

2) Select desired channel.

   • U.S.A. channel

   Push [DIAL].
   Push [UP/DN].
   "USA" appears when the U.S.A. marine channel is selected.

   • International channel

   Push [DIAL].
   Push [INTL/USA].
   Push [UP/DN].
   "USA" disappears when the international marine channel is selected.

   • Weather channel

   Push [WX].
   Push [UP/DN].
   "WX" appears when the weather channel is selected.

Example 3: Selecting Channel 22A on a U.S.A. channel.

USA 16 → USA 17 → USA 21A → USA 22A
3. BASIC OPERATION

3 - 2 RECEIVING

■ ANTENNA CONNECTION

Insert the connector on the flexible rubber antenna into the antenna connector on the top of the transceiver. Screw down securely.

1) Rotate [SQL] fully CCW.

2) Turn power ON and adjust [OFF/VOL] CONTROL.

2) Turn the transceiver power ON and adjust the [OFF/VOL] CONTROL to a suitable listening level.
   • Speaker emits tone or noise.
   • "USA" and "16" appear on the FUNCTION DISPLAY.

3) Adjust [SQL].

3) Adjust the [SQL] CONTROL until the speaker noise is quieted.

SQUELCH: If closed, the squelch mutes all noise from the speaker when no signal is received. This is useful while waiting for another station to call.

4) Receives Channel 16.

4) The transceiver is now receiving Channel 16.
   • To receive another marine channel, see page 10 for selecting the channel.
3 - 3 TRANSMITTING

The following transmitting procedures should be started after finishing the steps described above in Section 3 - 2 RECEIVING.

NOTE: If the TRANSMIT INDICATOR does not light up while transmitting, the battery pack is exhausted. Charge the battery pack.

1) Turn the transceiver power ON.
   • "USA" and "16" appear on the FUNCTION DISPLAY.
2) Select the desired channel. (See p. 10 for selecting a channel.)
3) Select the desired output power.
   • Push the [H/L] SWITCH to select HIGH or LOW power alternately.
   • "LOW" appears on the FUNCTION DISPLAY when LOW power is selected.
4) Push the [PTT] SWITCH to begin transmitting. Speak into the microphone using your normal voice level.
   • TRANSMIT INDICATOR lights up in red while transmitting.

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:

\[
D \text{ (nm) } = 1.22 \left( \sqrt{h_1} + \sqrt{h_2} \right)
\]

\[
D : \text{Distance} \\
h_1 : \text{Antenna height (ft)} \\
h_2 : \text{Antenna height (ft)}
\]

For instance, where \(h_1=8\text{ft}\) and \(h_2=8\text{ft}\), the distance is:

\[
D \text{ (nm) } = 1.22 \left( \sqrt{8} + \sqrt{8} \right) \\
\approx \text{Approx. 7nm} \\
\approx \text{Approx. 8 miles}
\]

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

- MEMORY CHANNEL

The transceiver has 24 memory channels. The memory channel function is especially useful for performing the following operations:

- memorizing specially selected channels.
- monitoring frequently used channels while operating on Channel 16.

4 - 1 MEMORY RECALL

1) Push [MEMO].

1) Push the [MEMO] SWITCH to select MEMORY mode.
- "MEMO" and a memory channel number appear on the FUNCTION DISPLAY.

2) Push [UP/DN].

2) Push the [UP/DN] SWITCH to select the desired memory channel.

NOTE: If no channel is memorized in a memory channel, the memory channel does not change even when the [UP/DN] SWITCH is pushed.

Example 4: Selecting memory channels.

Example 5: Selecting MEMORY mode from DIAL mode.
4 - 2 MEMORY WRITING

1) Push [MEMO].

1) Push the [MEMO] SWITCH to select MEMORY mode.
   • "MEMO" and a memory channel number appear on the FUNCTION DISPLAY.

2) Push and hold [FUNCTION] and [MEMO] for 3sec.

2) Push and hold the [FUNCTION] SWITCH and push the [MEMO] SWITCH for about 3 seconds to set MEMORY WRITE mode.
   • "MEMO" blinks on the FUNCTION DISPLAY.

3) Push [UP/DN].

3) Push the [UP/DN] SWITCH either upwards or downwards to select the desired memory channel.

4) Push [DIAL].

4) Push the [DIAL] SWITCH.
   • The dial channel blinks.

5) Select desired channel.

5) Select an international, U.S.A. or weather channel then the desired channel using the [UP/DN] SWITCH.
   • To change the channel mode, push the [DIAL] SWITCH first, then push a desired switch such as [INTL/USA] or [WX].

6) Push [MEMO].

6) Push the [MEMO] SWITCH to program the desired channel.
   • The channel number stops blinking.

Example 6: Memorizing Channel 22 into Memory Channel 02.
5. SCANNING OPERATION

5-1 SCAN TYPES

The IC-M11 is equipped with 3 separate scan functions, providing tremendous scanning versatility at the touch of just a few switches.

- Dial scan
- Memory scan
- Weather channel scan
- Scanning with the channel lockout function

DIAL SCAN

- Scans all marine channels. (U.S.A. channel)

MEMORY SCAN

- Scans all memory channels.

WEATHER CHANNEL SCAN

- Scans all weather channels.

SCANNING WITH THE LOCKOUT FUNCTION

- Scans all marine or memory channels while skipping specified channels. (DIAL mode)
5 - 2 SCANNING

1) Adjust [SQL].
   1) Adjust the [SQL] CONTROL to the threshold point.
      • Noise from the speaker stops.

2) Select a mode.
   2) Push either the [DIAL], [MEMO] or [WX] SWITCH to select the desired mode.
      - If the [DIAL] SWITCH is pushed:
        Skip to step 3) below.
      - If the [MEMO] or [WX] SWITCH is pushed:
        Skip to step 4) below.

3) Select desired channel.
   3) Select an international, U.S.A. or weather channel by pushing the [INTL/USA] SWITCH.

4) Push [SCAN].
   4) Push the [SCAN] SWITCH to start the scan.
      • “SCAN” appears on the FUNCTION DISPLAY.
      • Channel numbers change while scanning.
      • The scan stops when a signal is received.
      • The scan resumes after the signal disappears.

5) Push [SCAN].
   5) Push the [SCAN] SWITCH to cancel the scan.
      • The following switches also cancel the scan: [PTT] and [DIAL].

Example 7: Operating DIAL scan.

Example 8: Operating MEMORY scan.
5. SCANNING OPERATION

5 - 3 CHANNEL LOCKOUT FUNCTION

1) Select a scan mode.

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

1) Push either the [DIAL] or [MEMO] SWITCH to select the desired mode.

NOTE: The channel lockout function cannot be used in weather channel mode.

2) Select a channel number.

2) Push the [UP/DN] SWITCH to select the desired channel number.

3) Push and hold [FUNCTION].

3) Push and hold the [FUNCTION] SWITCH, then push the [SCAN] SWITCH to lock out the channel.
   • 'L' appears on the FUNCTION DISPLAY.
   • Release the [FUNCTION] SWITCH.

4) Verify the function.

4) Push the [SCAN] SWITCH to start the scan and verify programming.
   • The transceiver does not stop on a locked out channel.

5) Push [SCAN].

5) Push the [SCAN] SWITCH to cancel the function.

Example 9: Programming a lockout channel on Memory Channel 03 and operating MEMORY scan with the channel lockout function.

[Diagram showing the process of programming a lockout channel and operating a MEMORY scan with the channel lockout function.]
6 - 1 CHANNEL WATCH TYPES

The IC-M11 is equipped with 2 channel watch functions, providing a check of Channel 16 while listening on other channels.

<table>
<thead>
<tr>
<th>CHANNEL WATCH TYPE</th>
<th>OPERATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>DUAL WATCH</td>
<td>Checks Channel 16 while listening on other channels.</td>
</tr>
<tr>
<td>TRI WATCH</td>
<td>Checks Channel 16 and Memory Channel 00 while listening on other channels.</td>
</tr>
</tbody>
</table>

**• DUAL WATCH SIMULATION**
[A] station: Channel 16
[B] station: Operating channel

If a signal appears on Channel 16, the transceiver receives on Channel 16 until the signal disappears.

**• TRI WATCH SIMULATION**
[A] station: Channel 16
[B] station: Operating channel
[C] station: Channel on MEMO 00

If a signal appears on Channel 16, the transceiver functions the same as in DUAL WATCH operation.

If a signal appears on MEMO 00, the transceiver receives MEMO 00 while listening on Channel 16.
6. SPECIAL WATCH OPERATION

6 - 2 DUAL WATCH FUNCTION

1) Adjust [SQL].

1) Adjust the [SQL] CONTROL to the threshold point.
   • Noise from the speaker stops.

2) Select a channel.

2) Push the [DIAL] SWITCH and select the desired operating channel. (See p. 10 for selecting a channel.)

3) Push [DUAL/tri].

3) Push the [DUAL/tri] SWITCH to start the DUAL WATCH function.
   • "DUAL" blinks on the FUNCTION DISPLAY.
   • The transceiver now alternates between Channel 16 and the channel selected in step 2) above.

4) Push [DIAL].

4) Push the [DIAL] SWITCH to cancel the function.
   • When the PTT SWITCH is pushed, the transceiver transmits on the displayed channel.

Example 10: Operating DUAL WATCH function on Channel 17.
6-3 TRI WATCH FUNCTION

1) Program memory channel 00.

2) Adjust [SQL].

3) Select a channel.

4) Push and hold [FUNCTION].

5) Push [DIAL].

---

Example 11: Operating TRI WATCH function on Channel 17. The contents of Channel 60A are stored in Memory Channel 00.
7. OTHER FUNCTIONS

7-1 LOCK FUNCTION

This feature prevents accidental changes of the operating channel or other functions selected with switches.

1) Push [LOCK].

1) Push the [LOCK] SWITCH.
   • "LOCK" appears on the FUNCTION DISPLAY.
   • The displayed channel is now locked.


2) Push the [LOCK] SWITCH again to clear the lock function.
   • "LOCK" disappears from the FUNCTION DISPLAY.

**NOTE:** The LOCK function does not operate when the scan or DUAL/TRI WATCH is operating.

Example 12: Operating LOCK function.

7-2 BACKLIGHT FUNCTION

This feature illuminates the FUNCTION DISPLAY for easy reading in dark situations.

Push the [LIGHT] SWITCH to turn ON and OFF the backlight.
• The backlight has a timer function and turns OFF automatically after 5 seconds unless switches are being used.
<table>
<thead>
<tr>
<th>Channel No.</th>
<th>Frequency (MHz)</th>
<th>Transmit</th>
<th>Receive</th>
<th>Transmitter output power</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>156.050</td>
<td>160.650</td>
<td>6W &amp; 1W</td>
<td></td>
</tr>
<tr>
<td>01A</td>
<td>156.050</td>
<td>156.050</td>
<td>6W &amp; 1W</td>
<td></td>
</tr>
<tr>
<td>02</td>
<td>156.100</td>
<td>160.700</td>
<td>6W &amp; 1W</td>
<td></td>
</tr>
<tr>
<td>02A</td>
<td>156.100</td>
<td>156.100</td>
<td>6W &amp; 1W</td>
<td></td>
</tr>
<tr>
<td>03</td>
<td>156.150</td>
<td>160.750</td>
<td>6W &amp; 1W</td>
<td></td>
</tr>
<tr>
<td>03A</td>
<td>156.150</td>
<td>156.150</td>
<td>6W &amp; 1W</td>
<td></td>
</tr>
<tr>
<td>04</td>
<td>156.200</td>
<td>160.800</td>
<td>6W &amp; 1W</td>
<td></td>
</tr>
<tr>
<td>04A</td>
<td>156.200</td>
<td>156.200</td>
<td>6W &amp; 1W</td>
<td></td>
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<tr>
<td>05</td>
<td>156.250</td>
<td>160.850</td>
<td>6W &amp; 1W</td>
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<tr>
<td>05A</td>
<td>156.250</td>
<td>156.250</td>
<td>6W &amp; 1W</td>
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<td>6W &amp; 1W</td>
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<td>07</td>
<td>156.350</td>
<td>160.950</td>
<td>6W &amp; 1W</td>
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<td>07A</td>
<td>156.350</td>
<td>156.350</td>
<td>6W &amp; 1W</td>
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<tr>
<td>08</td>
<td>156.400</td>
<td>156.400</td>
<td>6W &amp; 1W</td>
<td></td>
</tr>
<tr>
<td>09</td>
<td>156.450</td>
<td>156.450</td>
<td>6W &amp; 1W</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>156.500</td>
<td>156.500</td>
<td>6W &amp; 1W</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>156.550</td>
<td>156.550</td>
<td>6W &amp; 1W</td>
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<td>6W &amp; 1W</td>
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<td>14</td>
<td>156.700</td>
<td>156.700</td>
<td>6W &amp; 1W</td>
<td></td>
</tr>
<tr>
<td>*15</td>
<td>156.750</td>
<td>156.750</td>
<td>1W only</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>156.800</td>
<td>156.800</td>
<td>6W &amp; 1W</td>
<td></td>
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<tr>
<td>17</td>
<td>156.850</td>
<td>156.850</td>
<td>6W &amp; 1W</td>
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<tr>
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<td>156.950</td>
<td>156.950</td>
<td>6W &amp; 1W</td>
<td></td>
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<tr>
<td>20</td>
<td>157.000</td>
<td>161.600</td>
<td>6W &amp; 1W</td>
<td></td>
</tr>
<tr>
<td>20A</td>
<td>157.000</td>
<td>157.000</td>
<td>6W &amp; 1W</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>157.050</td>
<td>161.650</td>
<td>6W &amp; 1W</td>
<td></td>
</tr>
<tr>
<td>21A</td>
<td>157.050</td>
<td>157.050</td>
<td>6W &amp; 1W</td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>157.100</td>
<td>161.700</td>
<td>6W &amp; 1W</td>
<td></td>
</tr>
<tr>
<td>22A</td>
<td>157.100</td>
<td>157.100</td>
<td>6W &amp; 1W</td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>157.150</td>
<td>161.750</td>
<td>6W &amp; 1W</td>
<td></td>
</tr>
<tr>
<td>23A</td>
<td>157.150</td>
<td>157.150</td>
<td>6W &amp; 1W</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>157.200</td>
<td>161.800</td>
<td>6W &amp; 1W</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>157.250</td>
<td>161.850</td>
<td>6W &amp; 1W</td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>157.300</td>
<td>161.900</td>
<td>6W &amp; 1W</td>
<td></td>
</tr>
<tr>
<td>27</td>
<td>157.350</td>
<td>161.950</td>
<td>6W &amp; 1W</td>
<td></td>
</tr>
<tr>
<td>28</td>
<td>157.400</td>
<td>162.000</td>
<td>6W &amp; 1W</td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>157.450</td>
<td>162.050</td>
<td>6W &amp; 1W</td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>157.500</td>
<td>162.100</td>
<td>6W &amp; 1W</td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>157.550</td>
<td>162.150</td>
<td>6W &amp; 1W</td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>157.600</td>
<td>162.200</td>
<td>6W &amp; 1W</td>
<td></td>
</tr>
</tbody>
</table>

* Only receives on a U.S.A. channel
9 - 1 TROUBLESHOOTING

The following chart is designed to help you correct problems which are not equipment malfunctions. If you are not able to locate the cause of a problem or solve it through the use of this chart, contact your nearest Icom Service Center or Dealer.

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>POSSIBLE CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
</table>
| • Power does not come ON when the power is turned ON. | • The battery is exhausted.  
• Bad connection of the battery pack. | • Recharge the battery pack.  
• Check the battery pack attachment to the transceiver. |
| • No sound comes from the speaker. | • [SQL] is turned too far CW.  
• External speaker (or earphone) is in use.  
• [VOL] is completely CCW. | • Set [SQL] at the threshold point.  
• Remove the speaker plug from the transceiver. If sounds come from the transceiver, the external speaker is bad.  
• Set [VOL] to a suitable listening level. |
| • Sensitivity is low and only strong signals are audible. | • Bad connection of the flexible antenna. | • Check the antenna connector and clean the center conductor. |
| • No or low transmit output power. | • The battery is exhausted.  
• The output power is set at "LOW".  
• The transceiver has selected Channel 15 or 17. | • Push PTT. If the red transmit indicator does not light up, recharge the battery pack.  
• Check the "LOW" indicator on the display. If illuminated, push [H/L] to select HIGH output power.  
• The transceiver transmits only low output power on Channels 15 and 17. |
| • The display channel does not change. | • The display is in the locked condition.  
• The transceiver has selected Channel 16 mode.  
• No channel information has been programmed into memory channels. | • Check "LOCK" indicator. If illuminated, push [LOCK] to cancel the condition.  
• Push [DIAL] or [MEMO], then push [UP/DN].  
• Program memory channels. See p. 14 for programming information. |

CW: Clockwise  CCW: Counterclockwise
<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>POSSIBLE CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>• The scan does not function.</td>
<td>• [SQL] is not set correctly.</td>
<td>• Set [SQL] at the threshold point.</td>
</tr>
<tr>
<td></td>
<td>• The display is in the locked condition.</td>
<td>• Check &quot;LOCK&quot; indicator. If illuminated, push [LOCK], then push [SCAN].</td>
</tr>
<tr>
<td></td>
<td>• The transceiver has not been set in DIAL or MEMO mode.</td>
<td>• Push [MEMO] or [DIAL], then push [SCAN].</td>
</tr>
<tr>
<td>• FUNCTION DISPLAY occasionally displays erroneous information.</td>
<td>• The internal microprocessor has malfunctioned.</td>
<td>• Turn power OFF then turn power ON again. If no solution is found, see Section 9-2 for resetting microprocessor.</td>
</tr>
</tbody>
</table>

9-2 RESETTING MICROPROCESSOR

NOTE: After resetting the microprocessor, all information you have programmed into memory channels is erased.

Reset the internal microprocessor:
- If the FUNCTION DISPLAY occasionally displays erroneous information during operation or when first applying power.
- When you want to erase all information in all memory channels at one time.

Reset as follows:
Turn power OFF and then ON while pushing and holding down the [FUNCTION] and [LIGHT] SWITCHES.

9-3 BACKUP BATTERY

The IC-M11 has a lithium backup battery installed. The usual life of the battery is more than 5 years. If the battery is exhausted, the transceiver operates normally but channel information in memory channels is not retained when the battery pack is detached.

Backup battery replacement must be done by an authorized Icom Dealer or Icom Service Center.
## 10. OPTIONS

<table>
<thead>
<tr>
<th>CM-35 AC BATTERY CHARGER</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Charges the supplied battery pack in 1.5 hours.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CM-60A MULTI-CHARGER</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Simultaneous charging capability of up to 6 separate battery packs.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IC-CM1 CIGARETTE LIGHTER CABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>- For operation with a 12V-type external DC power source.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DM-2 DC-DC CONVERTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>- For operation with a 24V-type external DC power source.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IC-CM9/IC-CM9L SPEAKER-MICROPHONE</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Combination speaker-microphone.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EM-46/EM-46L SPEAKER-MICROPHONE</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Revolving-type combination speaker-microphone.</td>
</tr>
</tbody>
</table>
**HS-10 + HS-10SA**
**HEADSET + VOX UNIT**

- Headset with VOX (Voice Controlled) T/R switching.

**HS-10 + HS-10SB**
**HEADSET + PTT SWITCHBOX**

- Headset with manual T/R switching.

**CP-10**
**BATTERY SEPARATION CABLE**

- Handy connector cable for separating the transceiver from the battery pack.

---

**VARIETY OF BATTERY PACKS**

<table>
<thead>
<tr>
<th>BATTERY PACK</th>
<th>CHARGING PERIOD WITH BATTERY CHARGER</th>
<th>EXT. DC POWER SOURCE</th>
<th>HEIGHT</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CM-2G</td>
<td>CM-35 1.5hrs. CM-60A 5hrs. CM-25 SERIES N/A CM-16 SERIES N/A CM-18 SERIES N/A</td>
<td>N/A</td>
<td>39mm</td>
<td>Small size</td>
</tr>
<tr>
<td></td>
<td>CM-3G 15hrs. *1 3.5hrs. 15hrs. N/A</td>
<td>N/A</td>
<td>39mm</td>
<td>Small size</td>
</tr>
<tr>
<td></td>
<td>CM-4G *2 15hrs. *2 5hrs. N/A</td>
<td>N/A</td>
<td>49mm</td>
<td>AA size x 6pcs. with battery case</td>
</tr>
<tr>
<td>CM-5G</td>
<td>1.5hrs. 5hrs. N/A</td>
<td>N/A</td>
<td>60mm</td>
<td>Long life</td>
</tr>
<tr>
<td>CM-5AG</td>
<td>1.5hrs. 5hrs. N/A</td>
<td>15hrs. 15hrs.</td>
<td>80mm</td>
<td>Long life, Rapid charging</td>
</tr>
<tr>
<td>CM-7G</td>
<td>1.5hrs. 5hrs. N/A</td>
<td>15hrs. 15hrs.</td>
<td>80mm</td>
<td>Long life, Rapid charging</td>
</tr>
<tr>
<td>CM-8G</td>
<td>3hrs. 9.5hrs. N/A</td>
<td>15hrs. 15hrs.</td>
<td>80mm</td>
<td>Very long life</td>
</tr>
<tr>
<td>CM-12G</td>
<td>N/A</td>
<td>N/A</td>
<td>80mm</td>
<td>AA size x 12pcs. with battery case</td>
</tr>
</tbody>
</table>

N/A: Not Applicable

*1 DO NOT charge the batteries more than 48 hours.

*2 DO NOT charge zinc or alkaline batteries. Only replaceable NiCd batteries can be charged.
11. SPECIFICATIONS

■ GENERAL
- Type of emission: 16K0G3E
- Antenna impedance: 50Ω
- Battery pack: CM-7G (13.2V output)
- Operating temperature range: −20°C ~ +60°C
- Frequency stability: ±0.0005%
- Dimensions (with CM-7G): 65mm(W) x 170mm(H) x 35mm(D)
  (Projections not included.)
- Weight: 675g (including the battery pack and flexible antenna)

■ RECEIVER
- Frequency range: 156 ~ 163MHz
- Sensitivity: 0.35μV at 12dB SINAD
- Audio output power: 0.5W at 10% distortion
- Intermediate frequencies: 1st 23.15MHz  2nd 455kHz

■ TRANSMITTER
- Frequency range: 156 ~ 157.5MHz
- Output power: HIGH 6W LOW 1W

IMPORTANT EMERGENCY INFORMATION

■ If your vessel requires assistance, contact other vessels and the coast guard by sending a distress message on Channel 16.

■ DISTRESS CALL PROCEDURE:

1. “MAYDAY MAYDAY MAYDAY” - - - (repeat three times)
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
Please record the serial number of your IC-M11 transceiver below for future servicing reference.

Serial number : _________________________________

Date of purchase : _______________________________

Place where purchased : __________________________
Count on us!