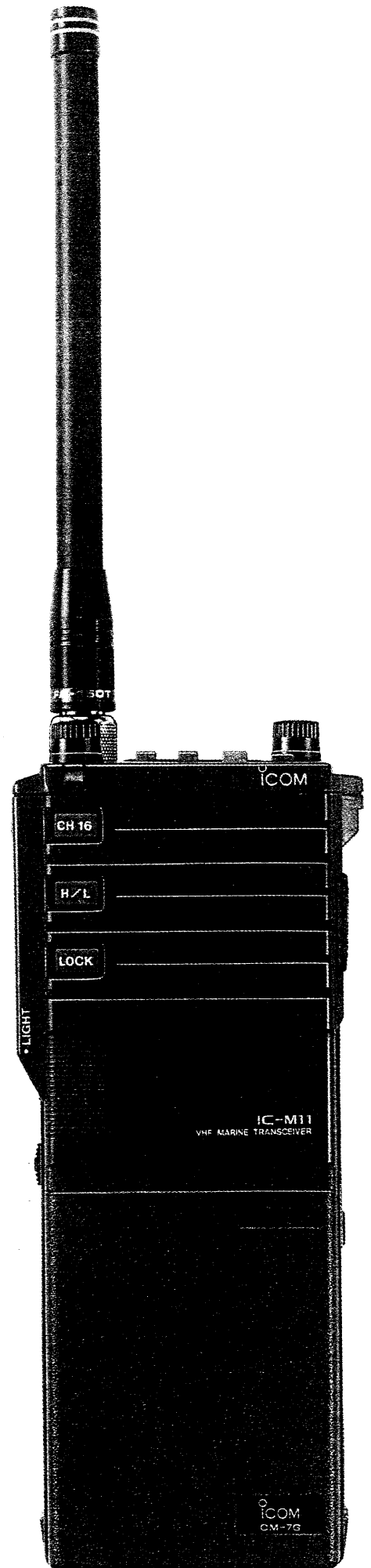


ICOM

INSTRUCTION MANUAL

VHF MARINE
TRANSCEIVER
IC-M11



Icom Inc.

FOREWORD

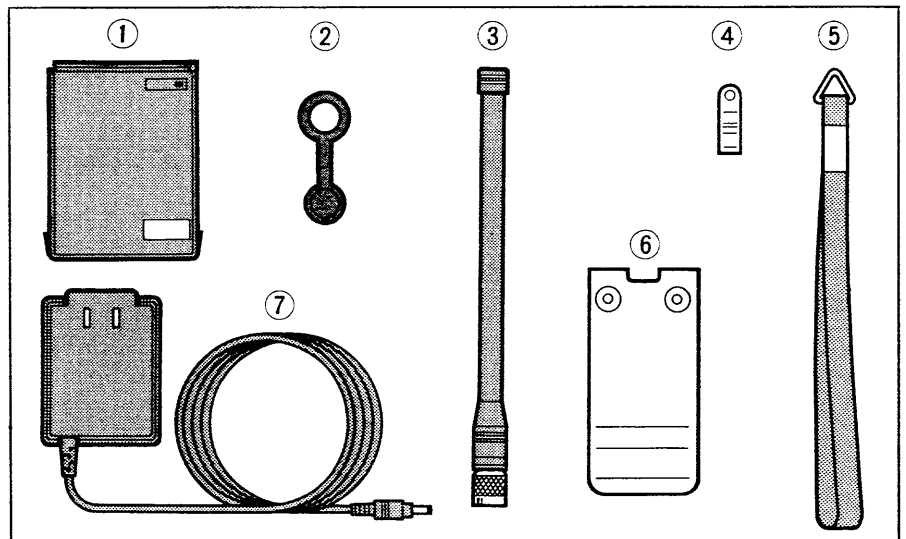
Icom has put the multi-functional complexity of larger marine transceivers into an advanced new handheld – the **IC-M11 VHF MARINE TRANSCEIVER**.

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.

UNPACKING



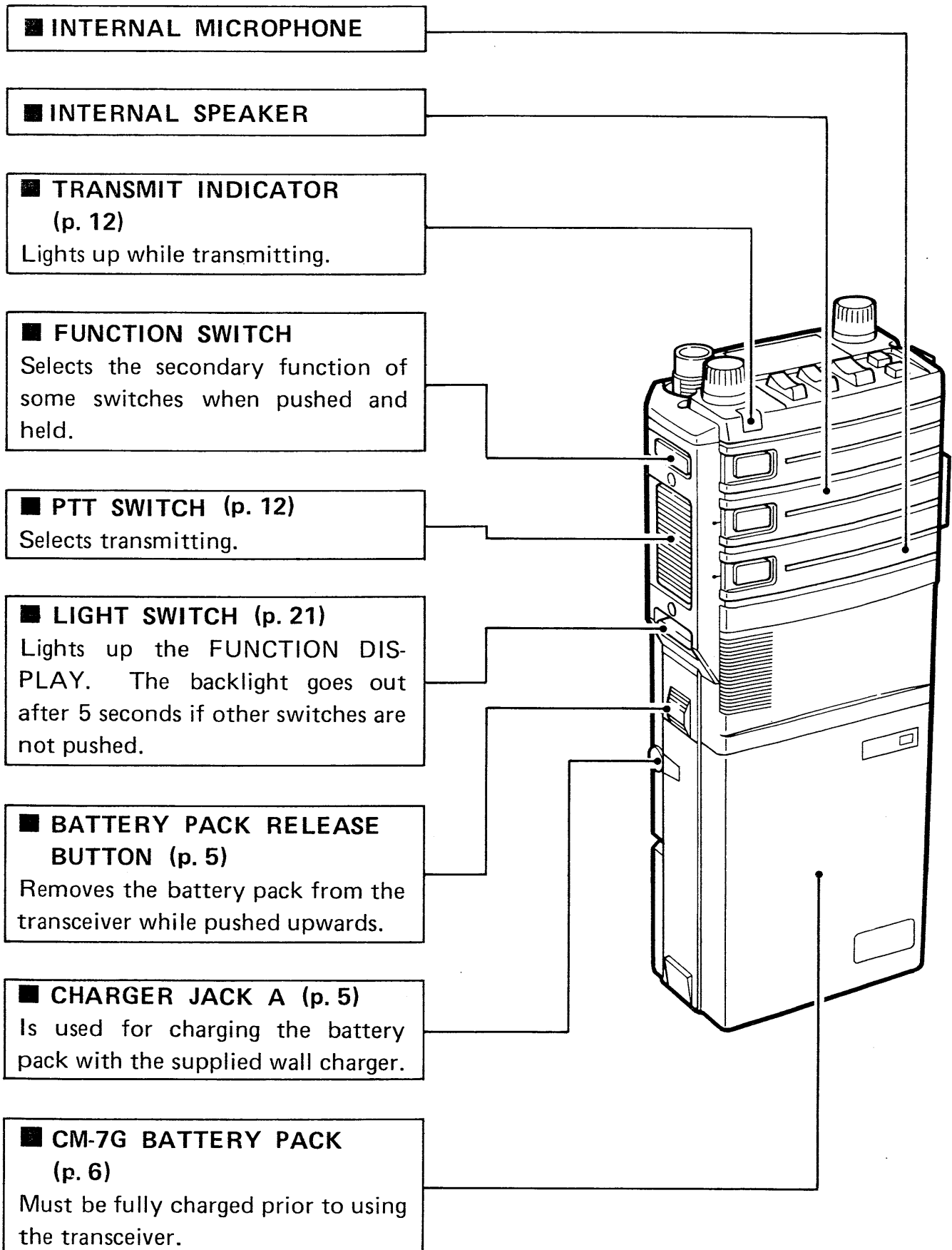
①	CM-7G BATTERY PACK	1
②	Antenna rubber cap.	1
③	Flexible antenna	1
④	Handstrap clip.	1
⑤	Handstrap	1
⑥	Belt clip	1
⑦	Wall charger	1

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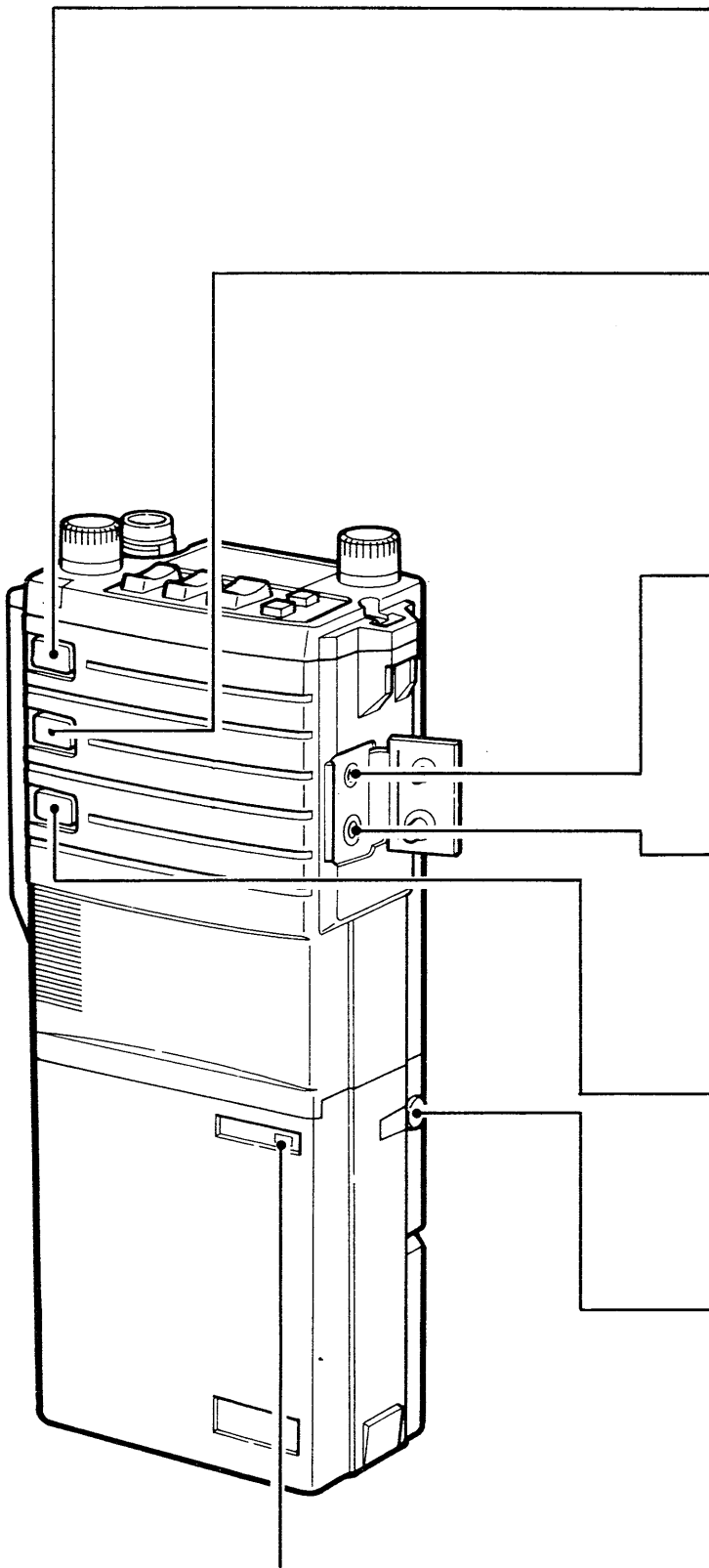
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1. CONTROL FUNCTIONS

1 - 1 FRONT AND SIDE PANELS



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)

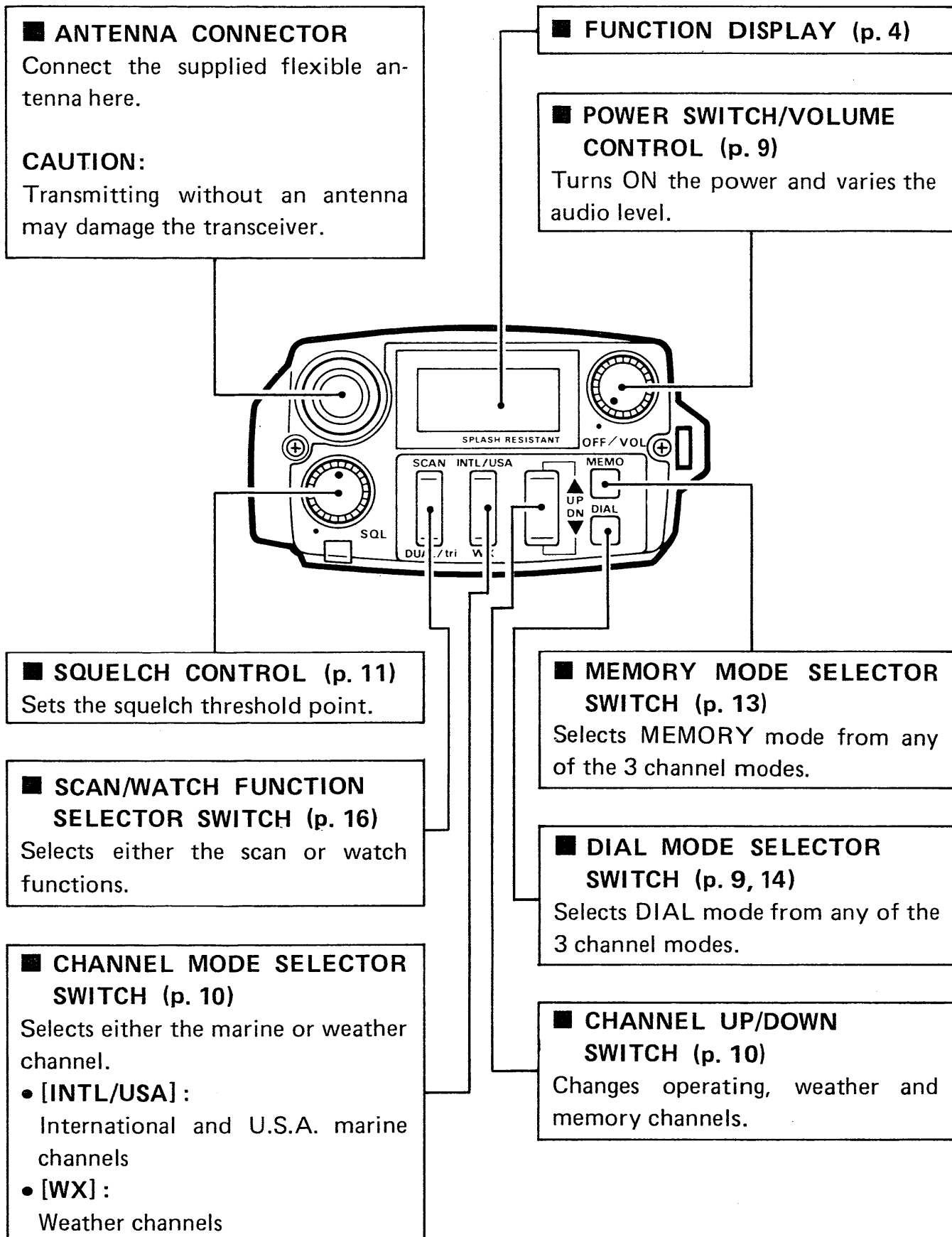
Is used for charging the battery pack with external 13.8V DC power source.

■ BATTERY CHARGE INDICATOR (p. 6)

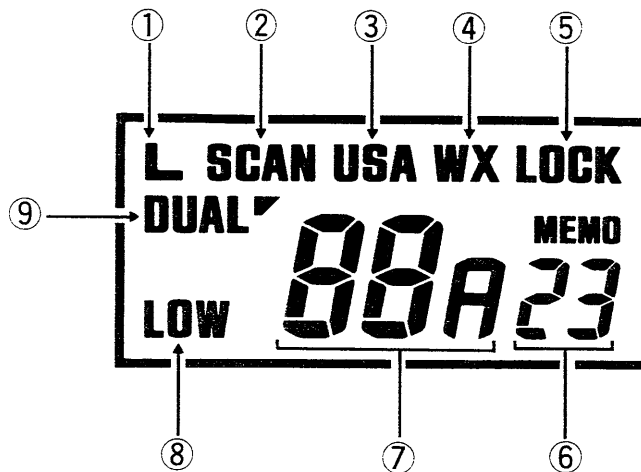
Lights up while the battery pack is being charged with the supplied wall charger.

1. CONTROL FUNCTIONS

1 - 2 TOP PANEL



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.

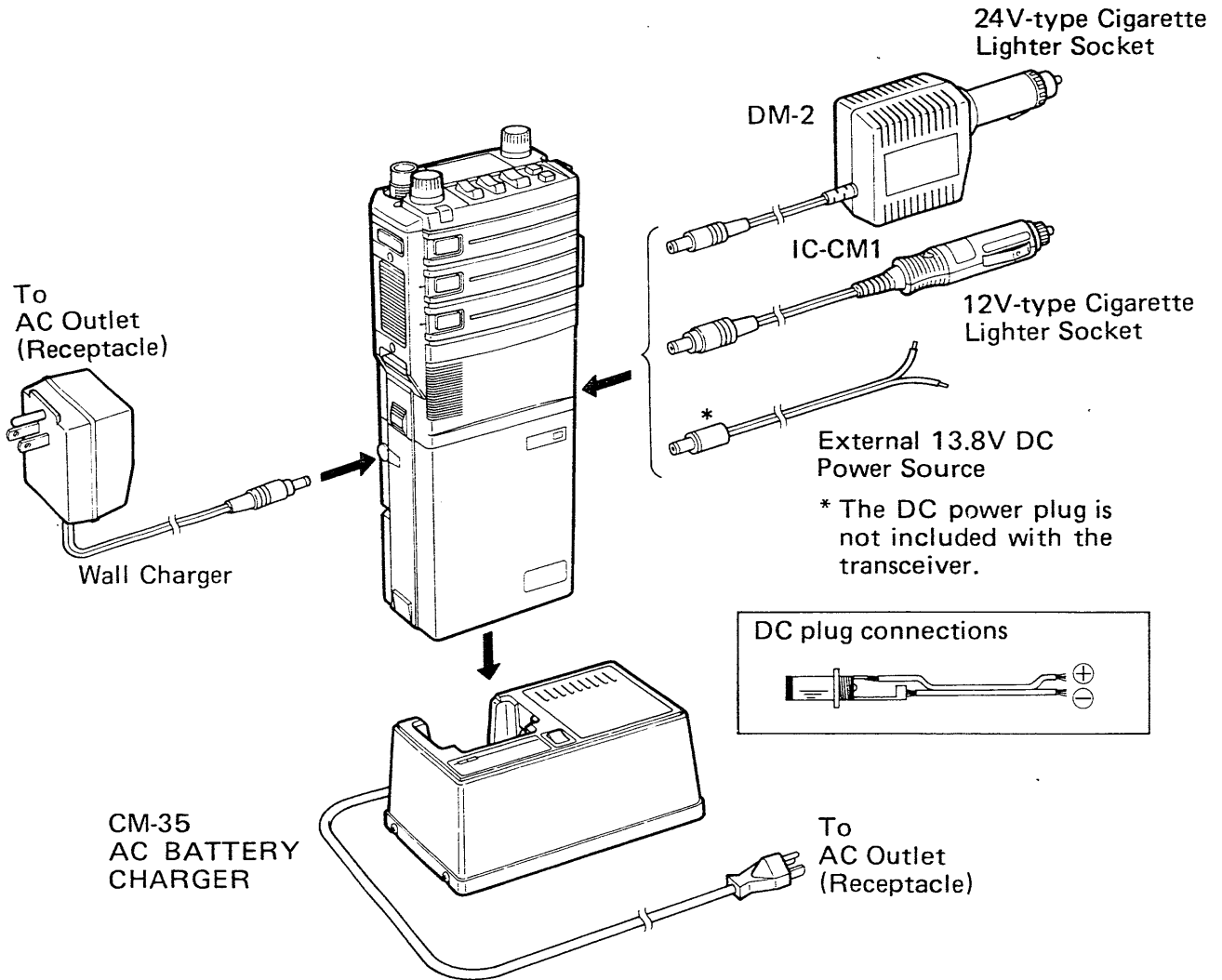
- LOW power : "**LOW**" appears
- HIGH power: No indication

⑨ DUAL AND TRI WATCH INDICATOR (p. 19)

Lights up when either the DUAL or TRI WATCH function is operating.

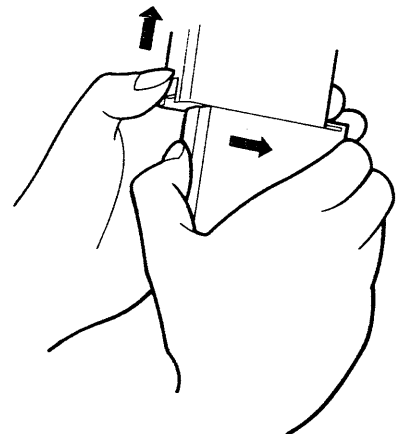
2. PRE-OPERATION

2-1 CHARGING CONNECTIONS



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.

■ USING THE SUPPLIED WALL CHARGER

- 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.

■ USING OTHER CHARGERS

CHARGER MODEL	CM-35	CM-60A	IC-CM1 DM-2, CM-28
CHARGE TIME	1.5hrs.	5hrs.	15hrs.

■ 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

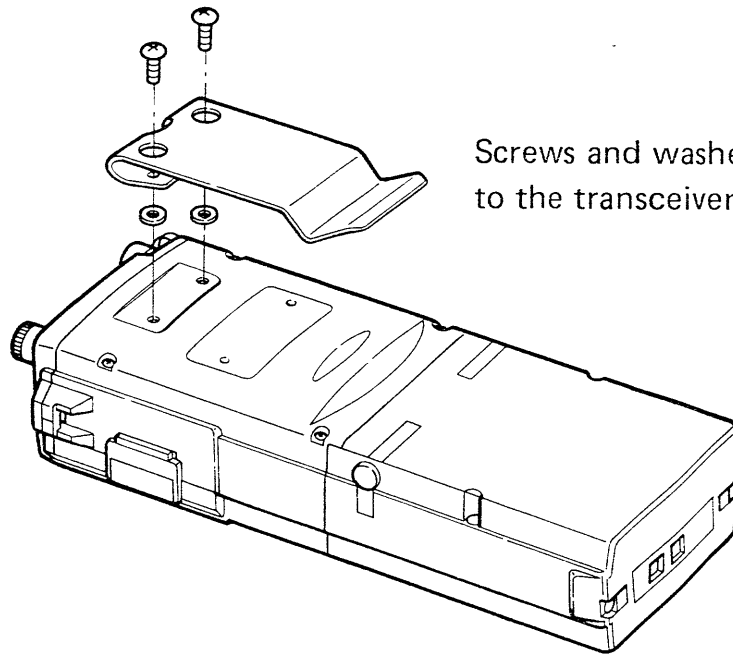
- **NEVER** throw the battery pack into a fire. Internal battery gas may cause an explosion.
- **NEVER** put the battery pack in water. If the battery pack is wet, be sure to wipe it dry.
- **NEVER** short the terminals on the top panel of the battery pack. Use the plastic insulator strip provided to 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.

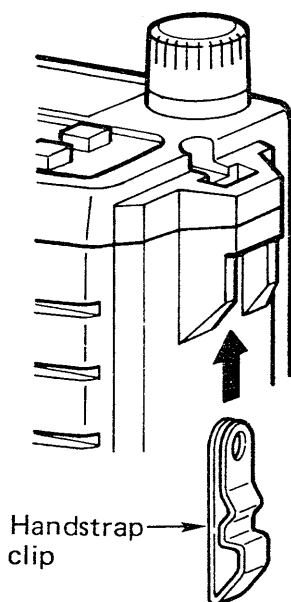


Fig. A

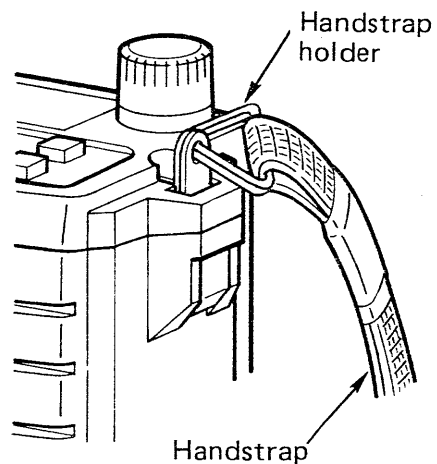


Fig. B

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

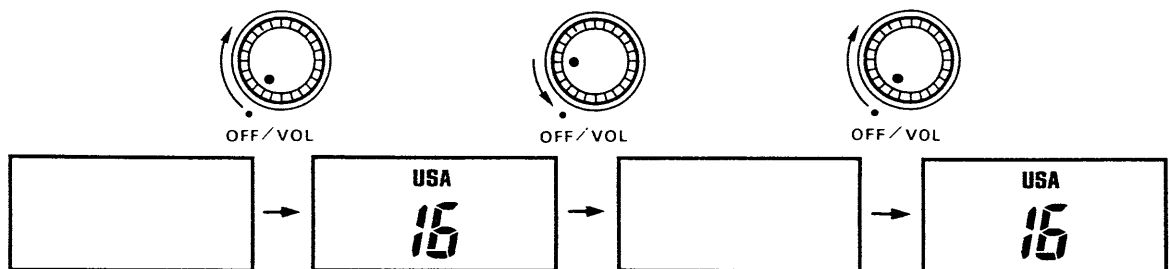
The [CH 16] SWITCH quickly selects Channel 16 from any mode.

1) Push the [CH 16] SWITCH to select channel 16.

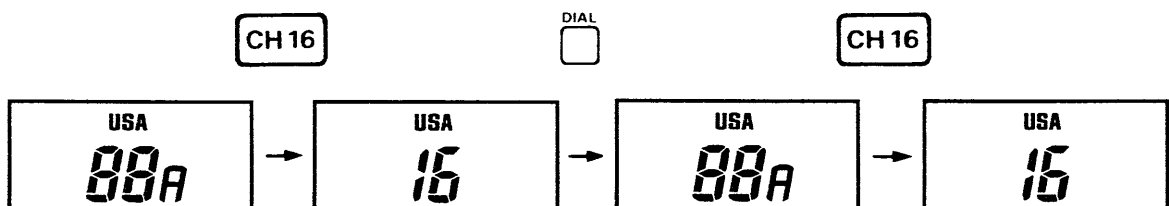
- Speaker emits a beep tone.

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.

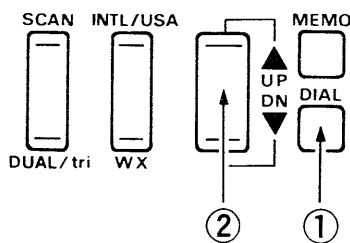
1) Turn the transceiver power ON.

- “USA” and “16” appear on the FUNCTION DISPLAY.

2) Select desired channel.

2) Select an international, U.S.A. or weather channel by pushing the desired switch.

● U.S.A. channel

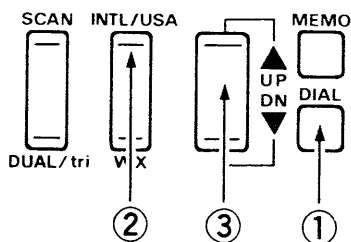


① Push [DIAL].

② Push [UP/DN].

- “USA” appears when the U.S.A. marine channel is selected.

● International channel



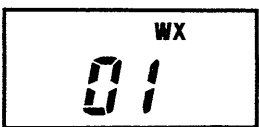
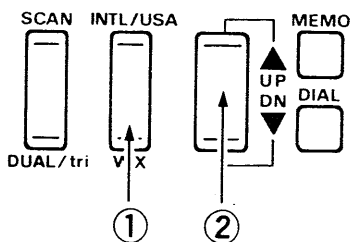
① Push [DIAL].

② Push [INTL/USA].

③ Push [UP/DN].

- “USA” disappears when the international marine channel is selected.

● Weather channel

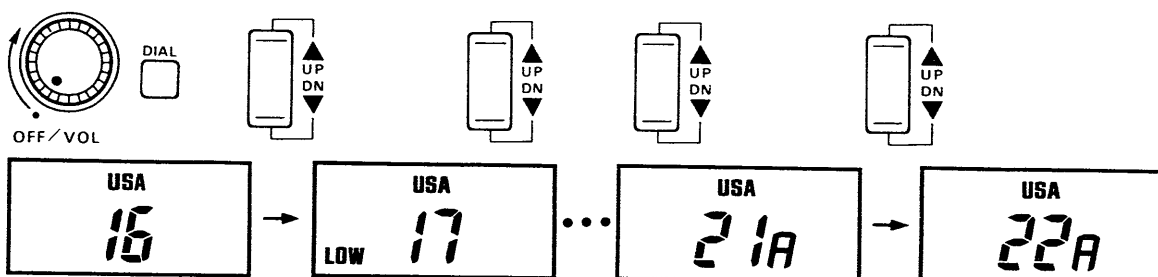


① Push [WX].

② Push [UP/DN].

- “WX” appears when the weather channel is selected.

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



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.



- 3) Adjust [SQL] .

- 1) Rotate the [SQL] CONTROL fully counterclockwise.
- 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 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 power ON.
- 2) Select the desired channel.
- 3) Select the desired output power.



- 4) Push PTT SWITCH.

- 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:

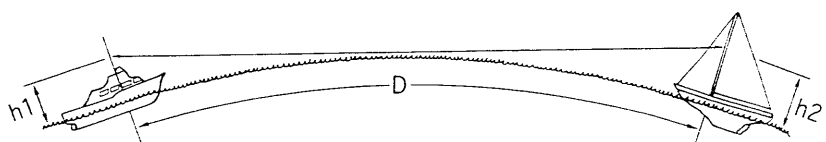
$$D \text{ (nm)} = 1.22 (\sqrt{h_1} + \sqrt{h_2})$$

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

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

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

= Approx. 7nm
= 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].



2) Push [UP/DN].

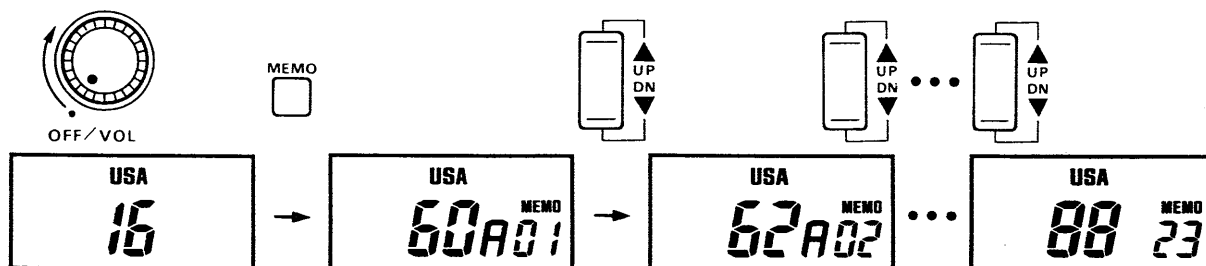
1) Push the [MEMO] SWITCH to select MEMORY mode.

- "MEMO" and a memory channel number appear on the FUNCTION DISPLAY.

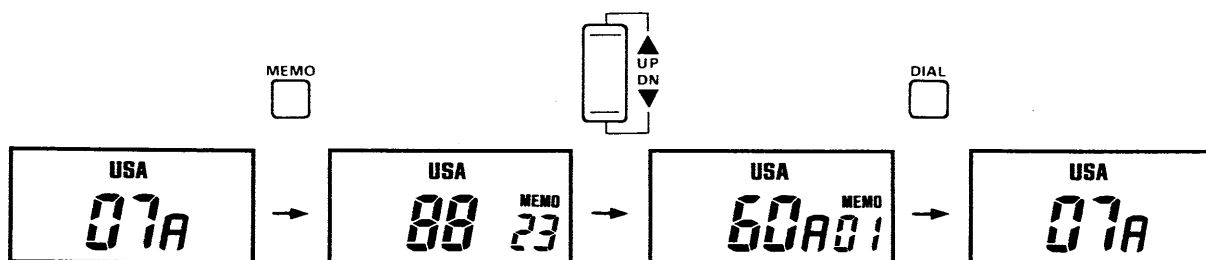
2) Push the [UP/DN] SWITCH to select the desired memory channel.

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.

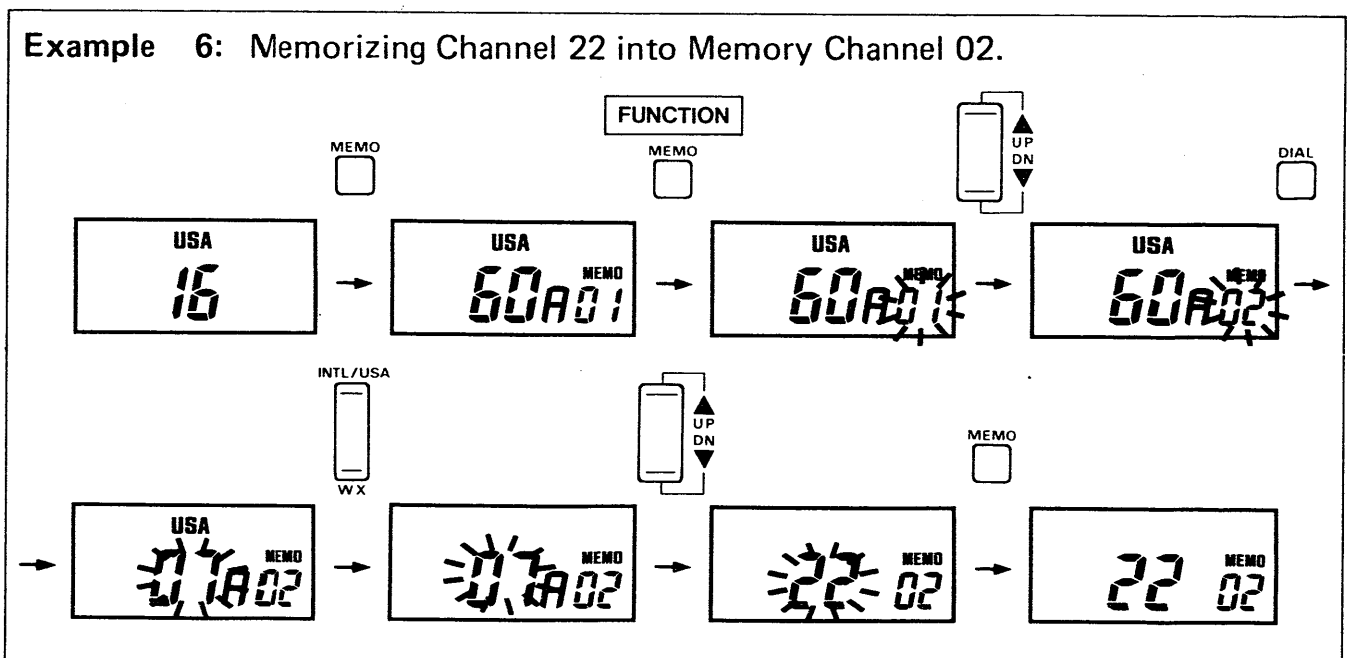


MEMORY CHANNEL OPERATION 4.

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

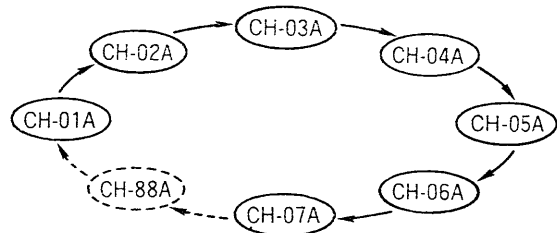
5 - 1 SCAN TYPES

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

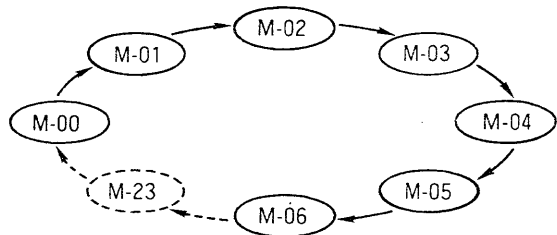
■ DIAL SCAN

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



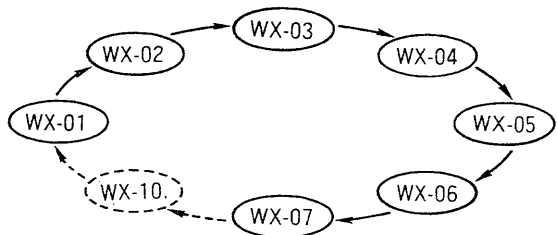
■ MEMORY SCAN

- Scans all memory channels.



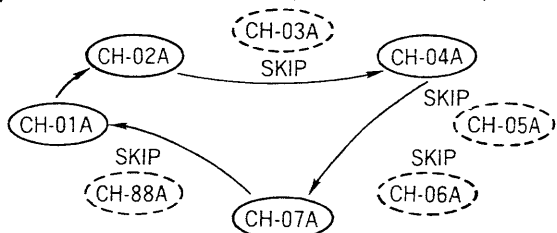
■ WEATHER CHANNEL SCAN

- 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.

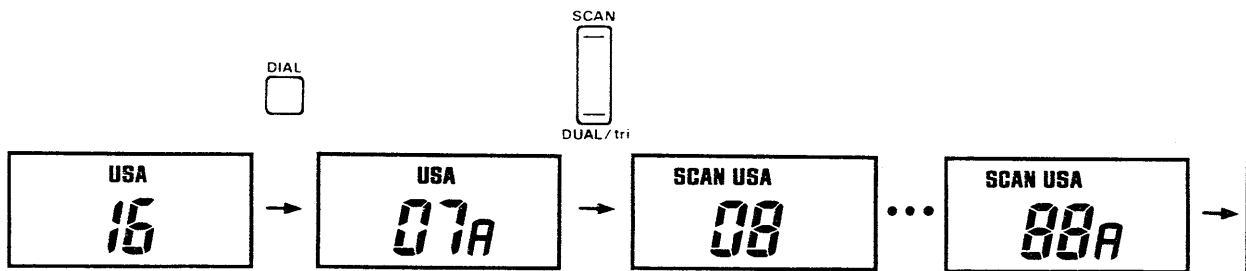
- 3) Select desired channel.
 - 3) Select an international, U.S.A. or weather channel by pushing the [INTL/USA] SWITCH.

- 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.

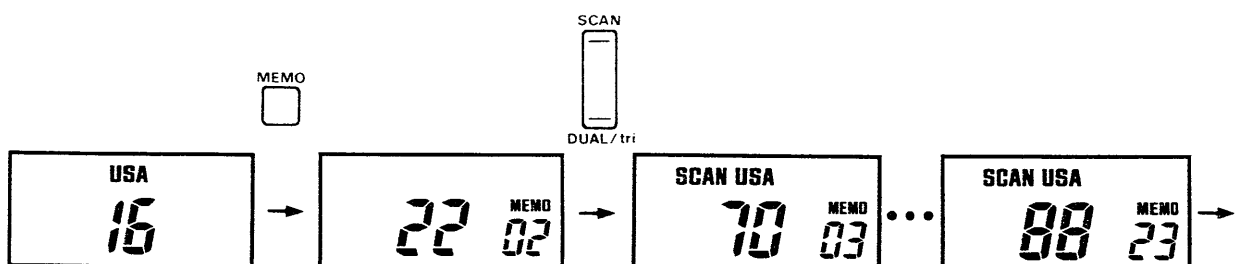
- 5) Push [SCAN].
 - 5) Push the [SCAN] SWITCH to cancel the scan.
 - The following switches also cancel the scan: [PTT] and [DIAL].



Example 7: Operating DIAL scan.



Example 8: Operating MEMORY scan.



5. SCANNING OPERATION

5 - 3 CHANNEL LOCKOUT FUNCTION

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

1) Select a scan mode.

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.

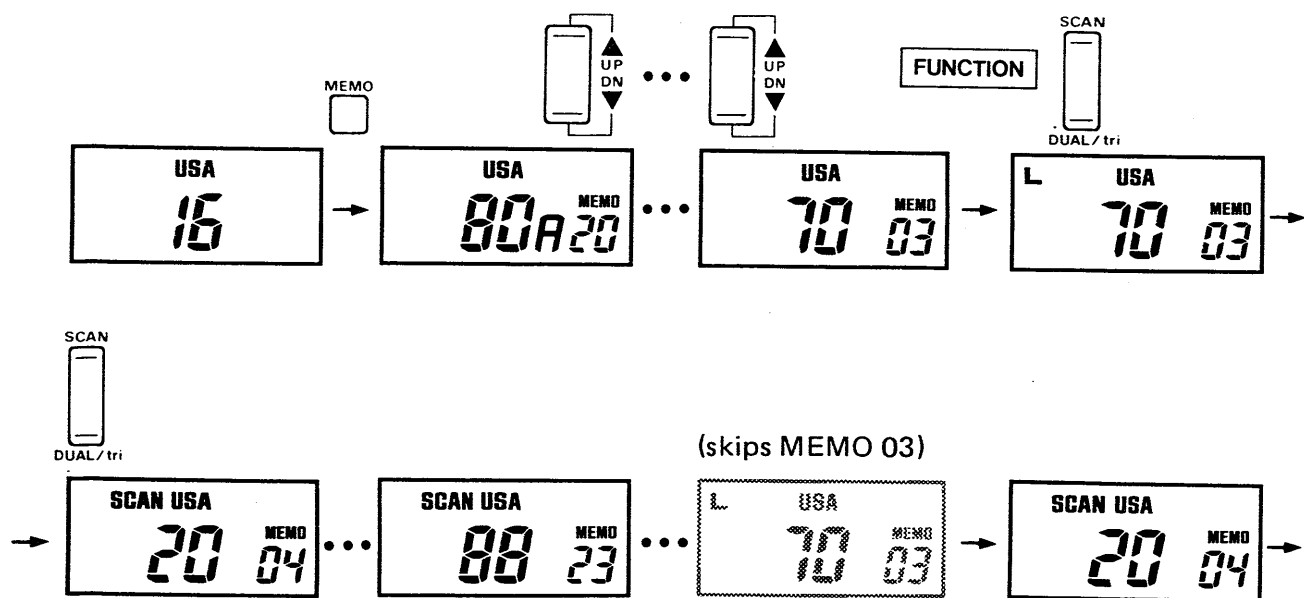
4) Push the [SCAN] SWITCH to start the scan and verify programming.

- 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.



SPECIAL WATCH OPERATION 6.

6 - 1 CHANNEL WATCH TYPES

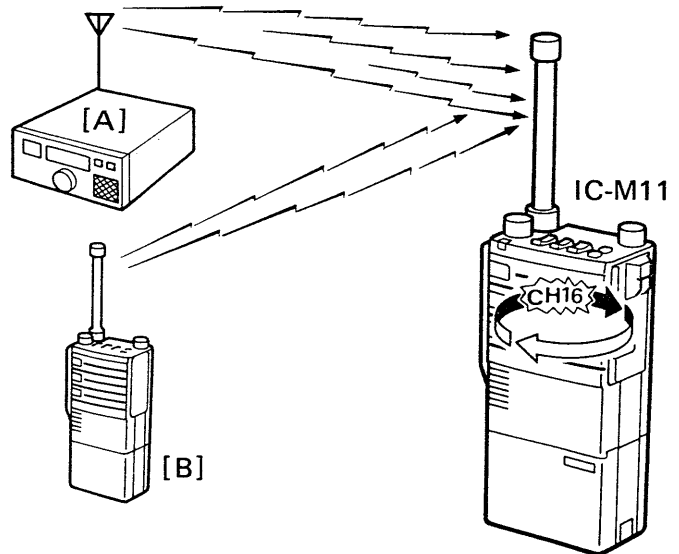
The IC-M11 is equipped with 2 channel watch functions, providing a check of Channel 16 while listening on other channels.

CHANNEL WATCH TYPE	OPERATION
DUAL WATCH	Checks Channel 16 while listening on other channels.
TRI WATCH	Checks Channel 16 and Memory Channel 00 while listening on other channels.

• 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.

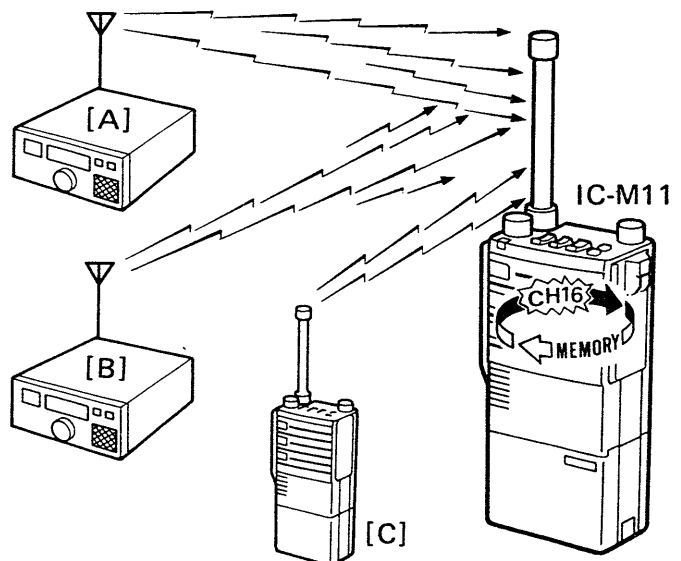


• TRI WATCH SIMULATION

- [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].



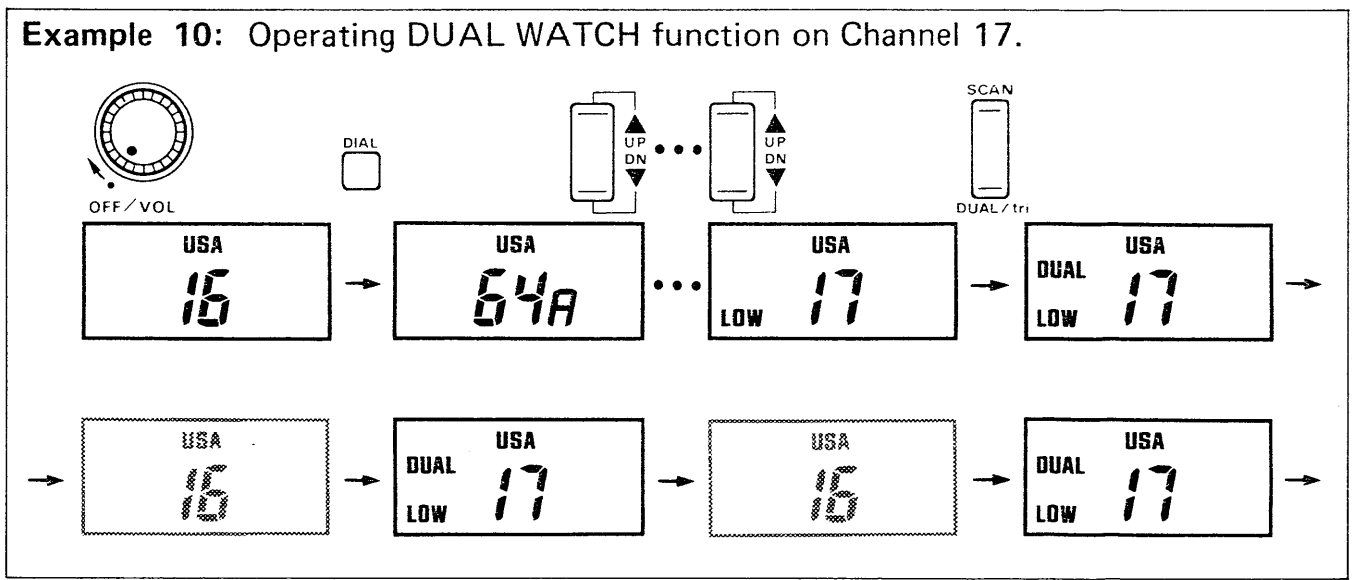
3) Push the [DUAL/tri] SWITCH to start the DUAL WATCH function.

- "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.

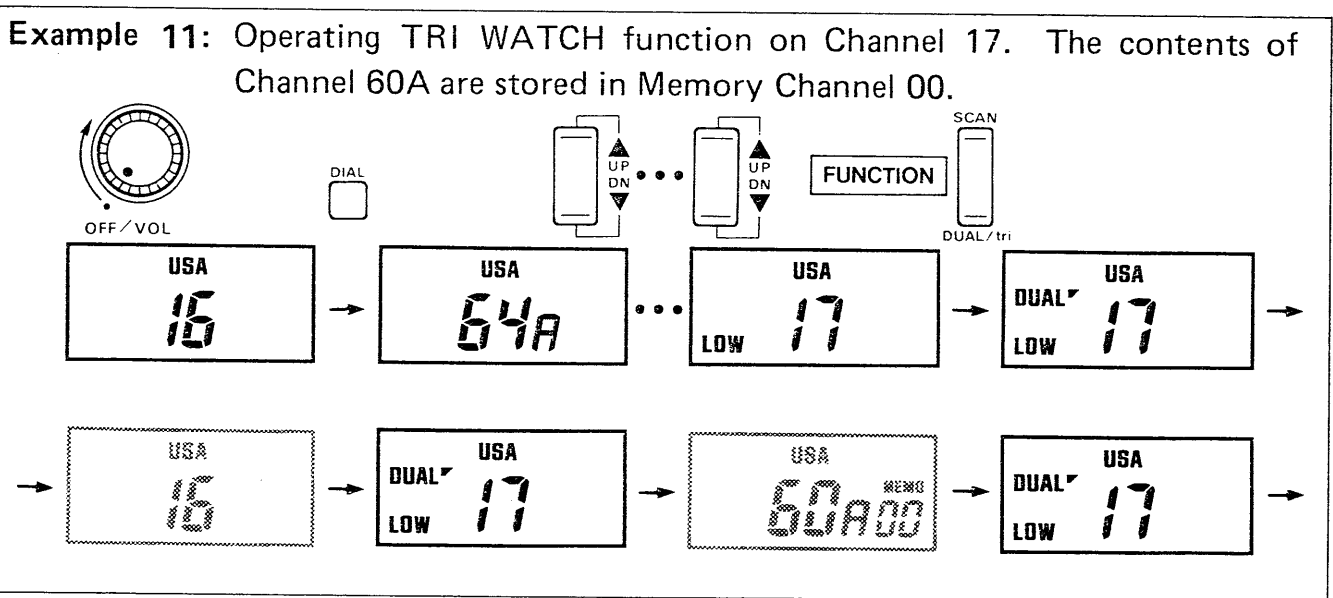
- When the PTT SWITCH is pushed, the transceiver transmits on the displayed channel.



SPECIAL WATCH OPERATION 6.

6 - 3 TRI WATCH FUNCTION

- 1) Program memory channel 00.
- 2) Adjust [SQL].
- 3) Select a channel.
- 4) Push and hold [FUNCTION].
 - "DUAL" blinks on the FUNCTION DISPLAY.
 - The transceiver now alternates between Channel 16, Memory Channel 00 and the displayed channel.
- 5) Push [DIAL].
 - "DUAL" disappears from the FUNCTION DISPLAY.
 - When the PTT SWITCH is pushed, the transceiver transmits on the displayed channel.



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.

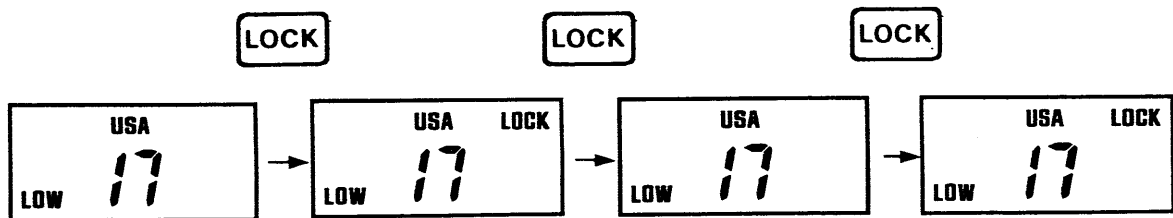
2) Push [LOCK] again.

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.

VHF MARINE CHANNEL CHART 8.

Channel No.	Frequency (MHz)		Transmitter output power
	Transmit	Receive	
01	156.050	160.650	6W & 1W
01A	156.050	156.050	6W & 1W
02	156.100	160.700	6W & 1W
02A	156.100	156.100	6W & 1W
03	156.150	160.750	6W & 1W
03A	156.150	156.150	6W & 1W
04	156.200	160.800	6W & 1W
04A	156.200	156.200	6W & 1W
05	156.250	160.850	6W & 1W
05A	156.250	156.250	6W & 1W
06	156.300	156.300	6W & 1W
07	156.350	160.950	6W & 1W
07A	156.350	156.350	6W & 1W
08	156.400	156.400	6W & 1W
09	156.450	156.450	6W & 1W
10	156.500	156.500	6W & 1W
11	156.550	156.550	6W & 1W
12	156.600	156.600	6W & 1W
13	156.650	156.650	6W & 1W
14	156.700	156.700	6W & 1W
* 15	156.750	156.750	1W only
16	156.800	156.800	6W & 1W
17	156.850	156.850	1W only
18	156.900	161.500	6W & 1W
18A	156.900	156.900	6W & 1W
19	156.950	161.550	6W & 1W
19A	156.950	156.950	6W & 1W
20	157.000	161.600	6W & 1W
20A	157.000	157.000	6W & 1W
21	157.050	161.650	6W & 1W
21A	157.050	157.050	6W & 1W
22	157.100	161.700	6W & 1W
22A	157.100	157.100	6W & 1W
23	157.150	161.750	6W & 1W
23A	157.150	157.150	6W & 1W
24	157.200	161.800	6W & 1W
25	157.250	161.850	6W & 1W
26	157.300	161.900	6W & 1W
27	157.350	161.950	6W & 1W
28	157.400	162.000	6W & 1W
60	156.025	160.625	6W & 1W
60A	156.025	156.025	6W & 1W
61	156.075	160.675	6W & 1W
61A	156.075	156.075	6W & 1W
62	156.125	160.725	6W & 1W
62A	156.125	156.125	6W & 1W
63	156.175	160.775	6W & 1W
63A	156.175	156.175	6W & 1W
64	156.225	160.825	6W & 1W

Channel No.	Frequency (MHz)		Transmitter output power
	Transmit	Receive	
64A	156.225	156.225	6W & 1W
65	156.275	160.875	6W & 1W
65A	156.275	156.275	6W & 1W
66	156.325	160.925	6W & 1W
66A	156.325	156.325	6W & 1W
67	156.375	156.375	6W & 1W
68	156.425	156.425	6W & 1W
69	156.475	156.475	6W & 1W
70	156.525	156.525	1W only
71	156.575	156.575	6W & 1W
72	156.625	156.625	6W & 1W
73	156.675	156.675	6W & 1W
74	156.725	156.725	6W & 1W
75	-----	-----	Guard
76	-----	-----	Guard
77	156.875	156.875	6W & 1W
78	156.925	161.525	6W & 1W
78A	156.925	156.925	6W & 1W
79	156.975	161.575	6W & 1W
79A	156.975	156.975	6W & 1W
80	157.025	161.625	6W & 1W
80A	157.025	157.025	6W & 1W
81	157.075	161.675	6W & 1W
81A	157.075	157.075	6W & 1W
82	157.125	161.725	6W & 1W
82A	157.125	157.125	6W & 1W
83	157.175	161.775	6W & 1W
83A	157.175	157.175	6W & 1W
84	157.225	161.825	6W & 1W
84A	157.225	157.225	6W & 1W
85	157.275	161.875	6W & 1W
85A	157.275	157.275	6W & 1W
86	157.325	161.925	6W & 1W
86A	157.325	157.325	6W & 1W
87	157.375	161.975	6W & 1W
87A	157.375	157.375	6W & 1W
88	157.425	162.025	6W & 1W
88A	157.425	157.425	6W & 1W
WX01	-----	162.550	RX only
WX02	-----	162.400	RX only
WX03	-----	162.475	RX only
WX04	-----	162.425	RX only
WX05	-----	162.450	RX only
WX06	-----	162.500	RX only
WX07	-----	162.525	RX only
WX08	-----	161.650	RX only
WX09	-----	161.775	RX only
WX10	-----	163.275	RX only

* Only receives on a U.S.A. channel

9. MAINTENANCE

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.

PROBLEM	POSSIBLE CAUSE	SOLUTION
<ul style="list-style-type: none"> • Power does not come ON when the power is turned ON. 	<ul style="list-style-type: none"> • The battery is exhausted. • Bad connection of the battery pack. 	<ul style="list-style-type: none"> • Recharge the battery pack. • Check the battery pack attachment to the transceiver.
<ul style="list-style-type: none"> • No sound comes from the speaker. 	<ul style="list-style-type: none"> • [SQL] is turned too far CW. • External speaker (or earphone) is in use. • [VOL] is completely CCW. 	<ul style="list-style-type: none"> • 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.
<ul style="list-style-type: none"> • Sensitivity is low and only strong signals are audible. 	<ul style="list-style-type: none"> • Bad connection of the flexible antenna. 	<ul style="list-style-type: none"> • Check the antenna connector and clean the center conductor.
<ul style="list-style-type: none"> • No or low transmit output power. 	<ul style="list-style-type: none"> • The battery is exhausted. • The output power is set at "LOW". • The transceiver has selected Channel 15 or 17. 	<ul style="list-style-type: none"> • 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.
<ul style="list-style-type: none"> • The display channel does not change. 	<ul style="list-style-type: none"> • The display is in the locked condition. • The transceiver has selected Channel 16 mode. • No channel information has been programmed into memory channels. 	<ul style="list-style-type: none"> • 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

PROBLEM	POSSIBLE CAUSE	SOLUTION
<ul style="list-style-type: none"> • The scan does not function. 	<ul style="list-style-type: none"> • [SQL] is not set correctly. • The display is in the locked condition. • The transceiver has not been set in DIAL or MEMO mode. 	<ul style="list-style-type: none"> • Set [SQL] at the threshold point. • Check "LOCK" indicator. If illuminated, push [LOCK], then push [SCAN]. • Push [MEMO] or [DIAL], then push [SCAN].
<ul style="list-style-type: none"> • FUNCTION DISPLAY occasionally displays erroneous information. 	<ul style="list-style-type: none"> • The internal microprocessor has malfunctioned. 	<ul style="list-style-type: none"> • Turn power OFF then turn power ON again. If no solution is found, see Section 9-2 for resetting microprocessor.

9 - 2 RESETTING MICRO-PROCESSOR

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.

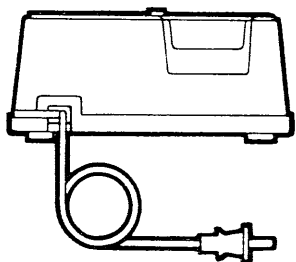
9 - 3 BACKUP BATTERY

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.

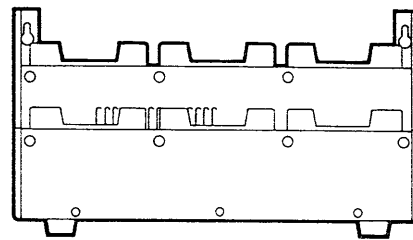
10.OPTIONS

**CM-35
AC BATTERY CHARGER**



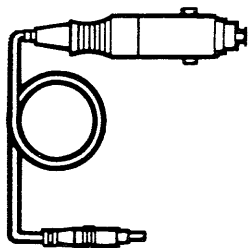
- Charges the supplied battery pack in 1.5 hours.

**CM-60A
MULTI-CHARGER**



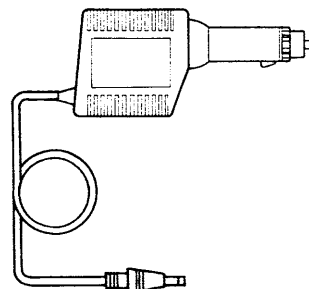
- Simultaneous charging capability of up to 6 separate battery packs.

**IC-CM1
CIGARETTE LIGHTER CABLE**



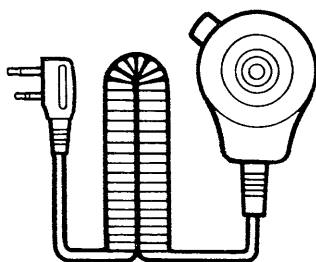
- For operation with a 12V-type external DC power source.

**DM-2
DC-DC CONVERTER**



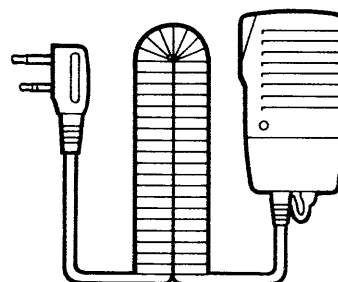
- For operation with a 24V-type external DC power source.

**IC-CM9/IC-CM9L
SPEAKER-MICROPHONE**



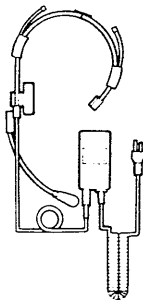
- Combination speaker-microphone.

**EM-46/EM-46L
SPEAKER-MICROPHONE**



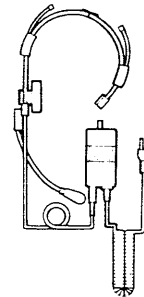
- Revolving-type combination speaker-microphone.

HS-10 + HS-10SA HEADSET + VOX UNIT



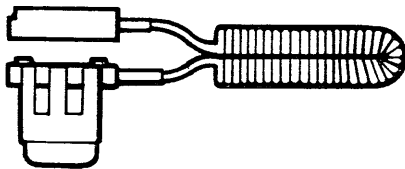
- Headset with VOX (Voice Controlled) T/R switching.

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

BATTERY PACK	CHARGING PERIOD WITH BATTERY CHARGER							REMARKS
	CM-35	CM-60A	CM-25 SERIES	CM-16 SERIES	IC-CM1 CM-28 DM-2	EXT. DC POWER SOURCE	HEIGHT	
CM-2G	1.5hrs.	5hrs.	N/A	N/A	N/A	N/A	39mm	<ul style="list-style-type: none"> • Small size • Rapid charging
CM-3G	15hrs.	*1 3.5hrs.	15hrs.	N/A	15hrs.	15hrs.	39mm	<ul style="list-style-type: none"> • Small size • Variety of chargers
CM-4G	*2 15hrs.	*2 5hrs.	N/A	N/A	N/A	N/A	49mm	<ul style="list-style-type: none"> • AA size x 6pcs. with battery case
CM-5G	1.5hrs.	5hrs.	N/A	N/A	N/A	N/A	60mm	<ul style="list-style-type: none"> • Long life • Rapid charging
CM-5AG	1.5hrs.	5hrs.	N/A	15hrs.	15hrs.	15hrs.	80mm	<ul style="list-style-type: none"> • Long life, Rapid charging • Variety of chargers
CM-7G	1.5hrs.	5hrs.	N/A	15hrs.	15hrs.	15hrs.	80mm	<ul style="list-style-type: none"> • Long life, Rapid charging • For HIGH output power.
CM-8G	3hrs.	9.5hrs.	N/A	15hrs.	15hrs.	15hrs.	80mm	<ul style="list-style-type: none"> • Very long life • Rapid charging
CM-12G	N/A	N/A	N/A	N/A	N/A	N/A	80mm	<ul style="list-style-type: none"> • AA size x 12pcs. with battery case • For HIGH output power.

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

Count on us!

