

# PRESIDENT

## PM-500 SWF



**Owner's Manual**

# MAKING A DISTRESS CALL

**Speak slowly - clearly - calmly.**

For future reference, write your boat's name & call sign here:

1. Make sure your radio is on.
2. On the radio, press the **16/9-TRI** button to switch to Channel 16 (156.8 MHz). (If the corner of the display does not show 16, press the **16/9-TRI** button again until it does.)
3. Press the **push to talk** button and say: "**MAYDAY – MAYDAY – MAYDAY.**"
4. Say "**THIS IS** {name of your boat (three times) and call sign/boat registration number (once)}."
5. Say "**MAYDAY** {name or call sign of your boat}."
6. Tell where you are: (what navigational aids or landmarks are near, or read the latitude and longitude from your GPS).
7. State the nature of your distress, (e.g. are you sinking, medical emergency, man overboard, on fire, adrift, etc).
8. State the type of assistance you need (medical, towing, pumps, etc.).
9. Give number of persons aboard and conditions of any injured persons.
10. Estimate present seaworthiness of your ship (e.g. how immediate is the danger due to flooding or fire or proximity to shore).
11. Briefly describe your ship, giving the ship name (e.g. "Blue Duck is 32 foot cabin cruiser, white hull, blue deck house").
12. Say: "**I WILL BE LISTENING ON CHANNEL 16.**"
13. End message by saying "**THIS IS** {name or call sign of your boat}, **OVER.**"
14. Release the **push to talk** button and listen.

**If you do not get an answer after 30 seconds, repeat your call, beginning at step 3, above.**

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# PM-500 SWF INTRODUCTION

The PM-500 SWF is a floating, waterproof, portable 2.5-watt two-way VHF marine transceiver. It is compact, lightweight, rugged, and fits easily in your hand. This handheld VHF marine radio will give you consistent, outstanding performance in virtually all conditions and situations.

To ensure that you get the most from the PM-500 SWF features, please read this operating guide carefully before using the unit.

## Features

- ◆ US, Canadian and International Marine Channels
- ◆ Built-in Precision Matched Antenna
- ◆ Floating / Waterproof to JIS8
- ◆ Carabiner Clips
- ◆ Emergency 16CH / 09CH Mode
- ◆ Battery Level Display  
(Battery Low Alert sounds every 5 seconds at Level 1)
- ◆ Memory Scan
- ◆ Triple Watch
- ◆ TX Power Select
- ◆ Channel Select
- ◆ Volume Select
- ◆ 3-Level Squelch Selectable
- ◆ Key Lock On / Off
- ◆ Battery Save

\*Protected against the effects of continuous immersion in water. The PM-500 SWF can withstand immersion in water up to 5 feet depth for 1 hour.

Note: This is not suitable for scuba diving.

- 🔊 **The PM-500 SWF will float when the carabiner clip is not connected and the battery cover is securely fastened.**

# GETTING STARTED

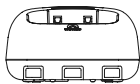
## What's Included



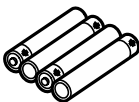
PM-500 SWF



AC Adapter



Drop-in Charger



NiMH Battery Pack



Beltclip



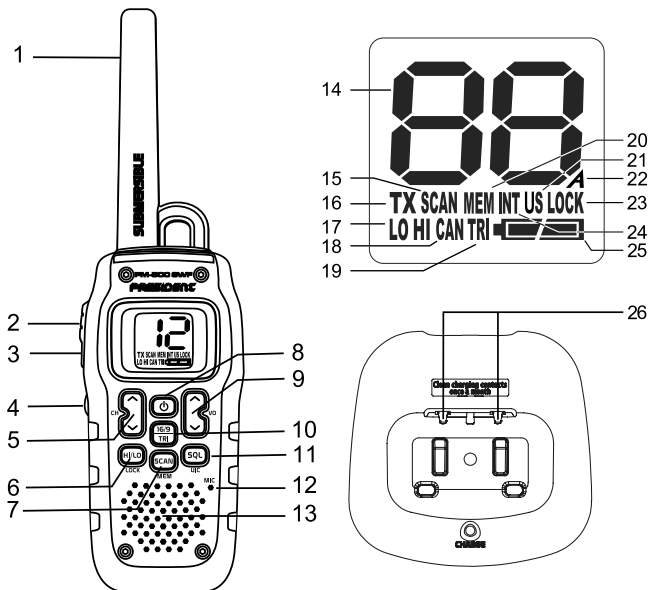
Carabiner Clip



Owner's Manual

☞ If any of these items are missing from the box, contact your place of purchase, immediately.

## Controls and Indicators



- 1 Antenna
- 2 **PTT** (Push-To-Talk) Button
- 3 Power **BOOST** Button
- 4 **MONITOR** Button
- 5 **CHANNEL** Up/Down Key
- 6 **HI/LO** (Transmit Power) / **KEY-LOCK** Key
- 7 **SCAN / MEMORY** Key
- 8 **POWER** key
- 9 **VOLUME** Up/Down key
- 10 **16/9 / TRI** (Triple Watch) Key
- 11 **SQL** (Squelch) / **UIC** Key
- 12 Microphone
- 13 Speaker

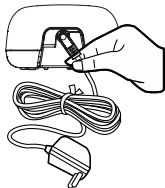
- 14 Channel Indicator
- 15 Scan Indicator
- 16 **TX** Indicator
- 17 **TX HI/LO** Power Indicator
- 18 Canada Channel Mode
- 19 Triple Watch Indicator
- 20 Memory Indicator
- 21 **US** Channel Mode
- 22 "A" Channel Indicator
- 23 Keylock Indicator
- 24 International Channel Mode
- 25 Battery Level Indicator
- 26 Charging Contacts

## Connect Drop-In Charger with AC adaptor

Plug one end of the AC adaptor into the wall outlet and the other end into the drop-in charger.

- ⚠ **The drop-in charger is not water proof. Ensure the radio is dry before connecting to the charger.**

**Don't use the charger when the ambient temperature is below 0° C (32° F) or above 45° C (113° F).**



## Install the Battery Pack

Your radio uses the supplied NiMH battery pack.

To install the NiMH battery pack:

1. Make sure the radio is off.
2. Turn the screw holding the battery compartment counterclockwise with a screwdriver, and hold up the battery cover.
3. Put the NiMH battery pack in the battery compartment applying the battery contacts to the lower charge contacts. Be sure to follow the instructions written on the battery pack's label. Installing the battery pack incorrectly will prevent the unit from operating.
4. Before placing the battery cover back on the radio, check the rubber seal around the battery compartment and the ribbon of the battery pack: make sure that the seal is in good condition and that there is no foreign matter under the seal.
5. Replace the battery compartment door. Tighten the screws securely.

- ⚠ **If the rubber seal appears worn, nicked, or dried out, replacement seals are available.**

**Use only the supplied NiMH battery pack. Do not charge alkaline or non rechargeable batteries.**

## Attaching the Beltclip

### To attach the belt clip:

Slide the belt clip until it snaps into place.

### To remove the belt clip:

To remove the belt clip, press and hold belt clip locker, slide the belt clip at the same time until released.

## Using the Carabiner Clip

Use the carabiner clip to conveniently secure the PM-500 SWF to a belt or strap.

- ☞ **The PM-500 SWF will float when the carabiner clip is not connected and the battery cover securely fastened.**

## Charging the Battery Pack

Your radio includes charging cradle and rechargeable battery pack. Follow these instructions to recharge the radio in the charging cradle.

- ☞ **For the initial battery charge, make sure the radio is off for optimum charging.**

1. Connect the adapter's plug to DC IN 12V jack of the charging cradle and plug the other end into an AC outlet.
2. Set the charging cradle on the desk or tabletop, and place the radio in the charging cradle with the keypad facing forward.
3. Make sure that the LED illuminates. Charge the battery pack for 13 hours and remove the radio from the charging cradle after charging.

- ☞ **Charge time may vary depending on the battery life remaining.**

**For fastest charging, turn off the radio before charging.**

- ☞ **The charging cradle is not waterproof. If the charging cradle falls into water, unplug it before attempting to remove it from the water. Allow the cradle to dry completely before reconnecting the power.**

**Wipe off dirt or shake water from your radio before placing in the charging cradle if your radio is soiled or wet.**



## Battery Level Display

The BATTERY icon at the bottom of the screen indicates the battery level at all times. The battery level is displayed in 4 levels.

LEVEL 4  
Battery  
100% full

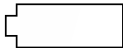


LEVEL 3  
Battery approx.  
40% capacity

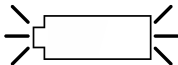




LEVEL 2  
Low Battery



LEVEL 1  
(flashing)  
Empty Battery



- ☞ **When PTT is pressed at Level 1, an error tone sounds and transmission is disabled. Once at Level 1 the unit will automatically shutdown after 60 seconds.**
- ☞ **Recharge the battery at any time. From empty the battery will take up to 13 hours to fully charge. For fast charging, turn off the Radio**

Battery Life : 12 Hours (Typical)

This is based on the following Duty Cycle:

Transmit (Low Power) :	5%
Receive :	5%
Stand-by :	90%

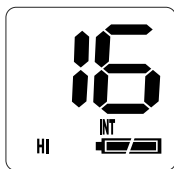
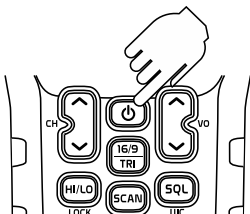
# OPERATION

In order to get the most out of your new radio, read this owner's manual completely before attempting to operate the unit.

## Basics

### Power On/Off

1. Press and hold  $\odot$  to turn the radio **ON**. A channel number and battery level should appear on the display.
2. Press and hold  $\odot$  to turn the radio **OFF**.



### Volume

The volume level can be adjusted from  $\square\square$  (no volume) to  $\square\square$  (maximum volume).

1. Press **VOL** ( $\blacktriangle$ ) or ( $\blacktriangledown$ ) to increase or decrease the volume level.  $\square$  shows on the display and the current volume level flashes.



### Selecting a Channel

Press **CH** ( $\blacktriangle$ ) or ( $\blacktriangledown$ ) to select the desired channel.

- $\Rightarrow$  If you press and hold the ( $\blacktriangle$ ) or ( $\blacktriangledown$ ), channel number will scroll rapidly.
- $\Rightarrow$  For your reference a list of the available channels, corresponding frequencies and guidelines for their use and selection is printed on page 18 to 21.

## Squelch

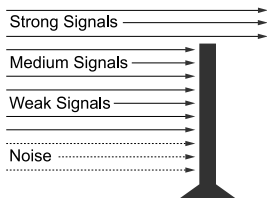
The squelch is used to eliminate any annoying background noise when there are no signals present.

- ☞ **Make sure to first select a channel not in use before setting the squelch in your PM-500 SWF VHF Marine radio.**

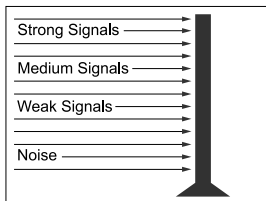
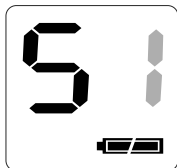
**51** - max sensitivity (min squelch)

**52** - med sensitivity (med squelch)

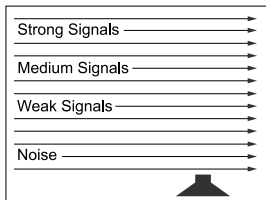
**53** - min sensitivity (max/tight squelch)



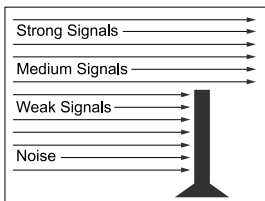
1. Press **SQL/UIC** momentarily. **5** shows on the display and the current squelch level will flash.
2. Press **SQL/UIC** while the squelch level shows to change the squelch level to the next step.
3. Press and hold **SQL/UIC** to save and exit the squelch setting.



Think of squelch as a gate. If you increase the squelch level to maximum it raises the 'Squelch gate' so only the strongest signals get through.



If you decrease the squelch level to minimum it lowers the 'Squelch Gate' to the extent that weak signals can get through.



If unwanted weak and noisy signals are getting through increase the squelch level ('Squelch Gate') to a medium level. Now only medium and strong signals get through.

## SRT Channel Mode

Press and hold **SQL/UIC** to switch between **USA**, **International**, and **Canadian** Channel Modes.

## To Transmit and Receive

The PM-500 SWF uses U.S., Canadian and International Marine Channels. For your reference a list of the available channels and corresponding frequencies is printed on p. 18 - p. 21.


1. The maximum RF transmit power of PM-500 SWF is 2.5W.

Press **HI/LO** to change the transmit power between High (2.5W) and Low (1W).

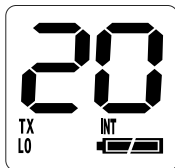
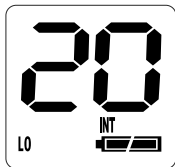
**HI** appears on the display when on high power and **LO** when on low power.

2. Before you transmit, listen for activity on the selected channel.
3. When the channel is clear, press and hold the **PTT** or **BOOST** to transmit. **TX** appears on the LCD.

*Hold the radio with microphone approximately five cms in front of your mouth with the antenna at approximately 45\* angle away from your head. Speak in a clear, normal conversational voice.*

 **When you press BOOST when the transmit power is low (Lo - 1W) the radio transmits at maximum high (Hi - 2.5W) power (except for channel 75 and 76).**

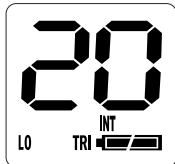
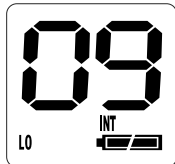
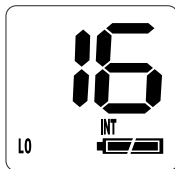
4. When you have finished speaking, release the **PTT** or **BOOST** to listen for a response. **TX** indicator then disappears on the LCD.



## One-touch Channel 16/09

Example: While you are monitoring channel 20, you want to check channel 16 or channel 9.


1. You are now on channel 20.
2. To monitor channel 16, press **16/9**.
3. To monitor channel 9, press **16/9** again.
4. To return to channel 20, press **16/9** again.

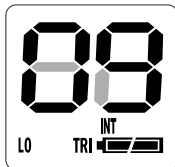
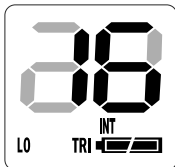


## Triple Watch

Triple Watch mode monitors channels 16 and 9 for a signal while you listen to the currently selected channel. The marine radio checks channel 16 and 9 for activity every 2 seconds.

1. Press and hold **TRI** to activate the Triple Watch.
2. Press and hold **TRI** again to exit Triple Watch.

 **While in Triple Watch mode, you can change the currently selected channel using **CH** (▲) or (▼).**



## Scanning

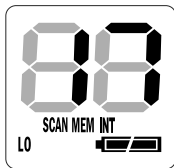
The PM-500 SWF can scan the channels programmed into memory, see Programming Scan Channels below.

### To initiate scanning;

1. Assuming the unit is on CH17 when switched on.
2. Press **SCAN** and scanning starts. **SCAN** icon appears during scanning.

The PM-500 SWF will scan memory channels in ascending order.

If Triple Watch is turned on during scan then the radio will scan the memory channels in ascending order and will check channel 09 and channel 16 every 2 seconds, then resume scanning the memory channels.



## Programming Scan Channels

1. Select the channel you want to store by pressing (▲) or (▼).
2. Press and hold **MEM**. **MEM** appears and a double beep is heard.
3. To remove the channels from Memory, press and hold **MEM** once more. A double beep sounds and **MEM** disappears.



## Drop-out Delay

While scanning, the PM-500 SWF stops at a busy channel and receives a signal. When the received signal is over, the unit will wait for 2 seconds for the return of the signal, otherwise, the radio resumes scanning.

## Power Save

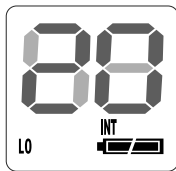
Battery Save feature extends the battery life by switching the receiver circuit power ON and OFF. This feature automatically activates during standby mode (RX mode without signal).

## Back Lighting

The Liquid Crystal Display (LCD) is backlit for easy viewing at night or in low light situations. The back lighting automatically switches ON every time a key (except PTT and BOOST) is pressed. It turns OFF 10 secs after the last key is pressed.

## Monitor

1. Press **MON** to start monitoring one channel with fixed (open) squelch.
2. Press and hold **MON** for 2 seconds to hold the monitor status on. All channel indicators will start to flash.
3. Press **MON** key again to release the monitoring status.




 **Monitor is not available in scan mode or triple watch mode.**

## Keypad Lock

To prevent accidental entries, you can lock the keypad. Press and hold **LOCK** until it beeps to activate Key Lock. **LOCK** appears.

To unlock the keypad, press and hold **LOCK** again. **LOCK** icon disappears.



 **When the Key Lock is active, a warning beep will be heard and the LOCK icon will blink if you attempt to press keys, except for the PTT, BOOST and MON buttons. The radio retains Key Lock status even when you cycle power on/off.**

# MAINTENANCE & TROUBLESHOOTING

Due to its rugged design, your radio requires very little maintenance. However, it is a precision electronic instrument, so you should follow a few precautions:

- If the antenna has been damaged, do not transmit except in an emergency situation. Transmitting with a defective antenna may cause further radio damage.
- You are responsible for continued FCC technical compliance of your radio.
- You should arrange for periodic performance checks with your PRESIDENT dealer.

## Common Questions

Problem	Things to Try
The radio won't turn on	Charge the radio
The power LED on the charger doesn't turn on	<ul style="list-style-type: none"><li>• Don't use the charger when the ambient temperature is below 0° C (32° F) or above 45° C (113° F)</li><li>• Make sure the charging contacts on the radio and charger are clean</li><li>• Replace the battery</li></ul>
The radio won't transmit	<ul style="list-style-type: none"><li>• Make sure you are not in Scan mode</li><li>• Make sure you are not trying to transmit on a receive-only channel or transmit at the wrong power level for this channel (see the channel lists starting on page 18)</li><li>• Check the battery power level; if it's low, charge the battery before trying to transmit</li><li>• Make sure the duration of each transmission is less than 3 minutes</li></ul>
I can't hear anything from the speaker	Adjust the squelch level; it is probably too high
Noise comes out of the speaker all the time	Adjust the squelch level; it is probably too low
I can transmit, but no one can hear me	Check your UIC channel settings: does the area you are in use different channel assignments?
Where can I find my radio's serial number?	The serial number is on a plate inside the battery compartment



# SPECIFICATIONS

## General

- Channels : All US / International / Canada marine channels
- Frequency Control : PLL
- Frequency Tolerance : Transmit: 1.5 PPM (at 25°C)  
Receive: 1.5 PPM (at 25°C)
- Operating Temperature : -20°C (-4°F) to +50°C (+122°F)
- Antenna : Flexible Whip
- Microphone : Built-in Electret type
- Display : Liquid Crystal Display
- Speaker : 16Ω 0.2 Watt
- Power Source : Rechargeable Ni-MH Battery pack  
4,8V 700 mAh
- Size (without antenna) : 8.98 (H) x 2.52 (W) x 1.54 (D) inch  
228 (H) x 64 (W) x 39 (D) mm
- Weight : 8.53 oz (242 g) (w/battery and antenna)

## Transmitter

- Frequency Range : 156~158 MHz
- Frequency Stability : ± 2.5 PPM
- Power Output : 1.0 W & 2.5W
- Spurious Emissions : -34 dBm on **HI**; -39 dBm on **LO**
- Current Drain : 1100 mA (2.5W)

## Receiver

- Type : Double Conversion Super Heterodyne  
Phase Locked Loop system for Local  
Oscillator
- Frequency Range : 156~162 MHz
- Sensitivity : 0.20 μV for 12dB SINAD
- Squelch Sensitivity : Threshold 0.12 μV (nominal)
- Audio Frequency Response : +6.0 dB @ 500 Hz; -6 dB @ 2000Hz
- Adjacent Channel Selectivity : 70 dB @ ± 25 kHz
- Audio Output Power : 0.16 W @10% THD
- Current Drain Squelched : Squelched : 55 mA; Max. Audio: 175 mA

# CHANNELS AND FREQUENCIES (MHZ)

## US Channel Frequencies and Names

US Marine Channels				
Ch	RX Freq	TX Freq	Status	Name
1A	156.050	156.050	Simplex	Vessel traffic system/commercial
5A	156.250	156.250	Simplex	Vessel traffic system/commercial
6	156.300	156.300	Simplex	Inter-ship safety
7A	156.350	156.350	Simplex	Commercial
8	156.400	156.400	Simplex	Commercial
9	156.450	156.450	Simplex	Non commercial
10	156.500	156.500	Simplex	Commercial
11	156.550	156.550	Simplex	Vessel traffic system
12	156.600	156.600	Simplex	Vessel traffic system
13	156.650	156.650	Simplex,1W	Bridge to bridge
14	156.700	156.700	Simplex	Vessel traffic system
15	156.750	Inhibit	Receiveonly	Environmental
16	156.800	156.800	Simplex	Distress, safety and calling
17	156.850	156.850	Simplex,1W	Govt maritime control
18A	156.900	156.900	Simplex	Commercial
19A	156.950	156.950	Simplex	Commercial
20	161.600	157.000	Duplex	Port operation
20A	157.000	157.000	Simplex	Port operation
21A	157.050	157.050	Simplex	Coast guard only
22A	157.100	157.100	Simplex	Coast guard
23A	157.150	157.150	Simplex	Coast guard only
24	161.800	157.200	Duplex	Marine operator
25	161.850	157.250	Duplex	Marine operator
26	161.900	157.300	Duplex	Marine operator
27	161.950	157.350	Duplex	Marine operator
28	162.000	157.400	Duplex	Marine operator
63A	156.175	156.175	Simplex	Vessel traffic system
65A	156.275	156.275	Simplex	Port operation
66A	156.325	156.325	Simplex	Port operation
67	156.375	156.375	Simplex,1W	Bridge To Bridge

<b>US Marine Channels</b>				
<b>Ch</b>	<b>RX Freq</b>	<b>TX Freq</b>	<b>Status</b>	<b>Name</b>
68	156.425	156.425	Simplex	Non Commercial
69	156.475	156.475	Simplex	Non Commercial
70	156.525	Inhibit	Receive only	Digital Selective Calling
71	156.575	156.575	Simplex	Non Commercial
72	156.625	156.625	Simplex	Non Commercial (Ship-Ship)
73	156.675	156.675	Simplex	Port Operation
74	156.725	156.725	Simplex	Port Operation
75	156.775	156.775	Simplex,1W	Port Operation
76	156.825	156.825	Simplex, 1W	Port Operation
77	156.875	156.875	Simplex,1W	Port Operation (Ship-Ship)
78A	156.925	156.925	Simplex	Non Commercial
79A	156.975	156.975	Simplex	Commercial
80A	157.025	157.025	Simplex	Commercial
81A	157.075	157.075	Simplex	Coast Guard
82A	157.125	157.125	Simplex	Coast Guard
83A	157.175	157.175	Simplex	Government
84	161.825	157.225	Duplex	Marine Operator
85	161.875	157.275	Duplex	Marine Operator
86	161.925	157.325	Duplex	Marine Operator
87	157.375	157.375	Simplex	Marine Operator
88	157.425	157.425	Simplex	Commercial (Ship-Ship)

## **Canadian Channel Frequencies and Names**

<b>Canadian Marine Channels</b>				
<b>Ch</b>	<b>RX Freq</b>	<b>TXFreq</b>	<b>Status</b>	<b>Name</b>
1	160.650	156.050	Duplex	Marine Operator
2	160.700	156.100	Duplex	Marine Operator
3	160.750	156.150	Duplex	Marine Operator
4A	156.200	156.200	Simplex	Canadian Coast Guard
5A	156.250	156.250	Simplex	Vessel Traffic System
6	156.300	156.300	Simplex	Inter-Ship Safety
7A	156.350	156.350	Simplex	Commercial
8	156.400	156.400	Simplex	Commercial

<b>Canadian Marine Channels</b>				
<b>Ch</b>	<b>RX Freq</b>	<b>TX Freq</b>	<b>Status</b>	<b>Name</b>
9	156.450	156.450	Simplex	Boater Calling Channel
10	156.500	156.500	Simplex	Commercial
11	156.550	156.550	Simplex	Vessel Traffic System
12	156.600	156.600	Simplex	Vessel Traffic System
13	156.650	156.650	Simplex, 1W	Bridge To Bridge
14	156.700	156.700	Simplex	Vessel Traffic System
15	156.750	156.750	Simplex, 1W	Environmental
16	156.800	156.800	Simplex	Distress, safety, calling
17	156.850	156.850	Simplex, 1W	State Control
18A	156.900	156.900	Simplex	Commercial
19A	156.950	156.950	Simplex	Canadian Coast Guard
20	161.600	157.000	Duplex, 1W	Port Operation
21A	157.050	157.050	Simplex	Canadian Coast Guard
22A	157.100	157.100	Simplex	Canadian Coast Guard
23	161.750	157.150	Duplex	Canadian Coast Guard
24	161.800	157.200	Duplex	Marine Operator
25	161.850	157.250	Duplex	Marine Operator
26	161.900	157.300	Duplex	Marine Operator
27	161.950	157.350	Duplex	Marine Operator
28	162.000	157.400	Duplex	Marine Operator
60	160.625	156.025	Duplex	Marine Operator
61A	156.075	156.075	Simplex	Canadian Coast Guard
62A	156.125	156.125	Simplex	Canadian Coast Guard
63A	156.175	156.175	Simplex	Port Operation
64	160.825	156.225	Duplex	Marine Operator
64A	156.225	156.225	Simplex	Port Operation
65A	156.275	156.275	Simplex	Port Operation
66A	156.325	156.325	Simplex, 1W	Port Operation
67	156.375	156.375	Simplex	Bridge To Bridge
68	156.425	156.425	Simplex	Non Commercial
69	156.475	156.475	Simplex	Non Commercial
70	156.525	Inhibit	Receive only	Digital Selective Calling
71	156.575	156.575	Simplex	Non Commercial
72	156.625	156.625	Simplex	Non Commercial

<b>Canadian Marine Channels</b>				
<b>Ch</b>	<b>RX Freq</b>	<b>TX Freq</b>	<b>Status</b>	<b>Name</b>
73	156.675	156.675	Simplex	Port Operation
74	156.725	156.725	Simplex	Port Operation
75	156.775	156.775	Simplex, 1W	Port Operation
76	156.825	156.825	Simplex, 1W	Port Operation
77	156.875	156.875	Simplex, 1W	Port Operation
78A	156.925	156.925	Simplex	Inter Ship
79A	156.975	156.975	Simplex	Inter Ship
80A	157.025	157.025	Simplex	Inter Ship
81A	157.075	157.075	Simplex	Canadian Coast Guard
82A	157.125	157.125	Simplex	Canadian Coast Guard
83	161.775	157.175	Duplex	Canadian Coast Guard
83A	157.175	157.175	Simplex	Canadian Coast Guard
84	161.825	157.225	Duplex	Marine Operator
85	161.875	157.275	Duplex	Marine Operator
86	161.925	157.325	Duplex	Marine Operator
87	157.375	157.375	Simplex	Port Operation
88	157.425	157.425	Simplex	Port Operation

## **International Channel Frequencies and Names**

<b>International Marine Channels</b>				
<b>Ch</b>	<b>RX Freq</b>	<b>TX Freq</b>	<b>Status</b>	<b>Name</b>
1	160.650	156.050	Duplex	Marine operator
2	160.700	156.100	Duplex	Marine operator
3	160.750	156.150	Duplex	Marine operator
4	160.800	156.200	Duplex	Marine operator
5	160.850	156.250	Duplex	Marine operator
6	156.300	156.300	Simplex	Inter-ship safety
7	160.950	156.350	Duplex	Marine operator
8	156.400	156.400	Simplex	Commercial (ship-ship)
9	156.450	156.450	Simplex	Boater calling channel
10	156.500	156.500	Simplex	Commercial
11	156.550	156.550	Simplex	Vessel traffic system
12	156.600	156.600	Simplex	Vessel traffic system
13	156.650	156.650	Simplex	Bridge to bridge

<b>International Marine Channels</b>				
<b>Ch</b>	<b>RX Freq</b>	<b>TX Freq</b>	<b>Status</b>	<b>Name</b>
14	156.700	156.700	Simplex	Vessel traffic system
15	156.750	156.750	Simplex, 1W	Environmental
16	156.800	156.800	Simplex	Distress, safety, calling
17	156.850	156.850	Simplex, 1W	Govt maritime control
18	161.500	156.900	Duplex	Port operation
19	161.550	156.950	Duplex	Commercial
20	161.600	157.000	Duplex	Port operation
21	161.650	157.050	Duplex	Port operation
22	161.700	157.100	Duplex	Port operation
23	161.750	157.150	Duplex	Marine operator
24	161.800	157.200	Duplex	Marine operator
25	161.850	157.250	Duplex	Marine operator
26	161.900	157.300	Duplex	Marine operator
27	161.950	157.350	Duplex	Marine operator
28	162.000	157.400	Duplex	Marine operator
60	160.625	156.025	Duplex	Marine operator
61	160.675	156.075	Duplex	Marine operator
62	160.725	156.125	Duplex	Marine operator
63	160.775	156.175	Duplex	Marine operator
64	160.825	156.225	Duplex	Marine operator
65	160.875	156.275	Duplex	Marine operator
66	160.925	156.325	Duplex	Marine operator
67	156.375	156.375	Simplex	Bridge to bridge
68	156.425	156.425	Simplex	Non commercial
69	156.475	156.475	Simplex	Non commercial
70	156.525	Inhibit	Receive only	Digital Selective Calling
71	156.575	156.575	Simplex	Non commercial
72	156.625	156.625	Simplex	Non commercial
73	156.675	156.675	Simplex	Port operation
74	156.725	156.725	Simplex	Port operation
75	156.775	156.775	Simplex, 1W	Port operation
76	156.825	156.825	Simplex, 1W	Port operation
77	156.875	156.875	Simplex	Port operation (ship-ship)
78	161.525	156.925	Duplex	Port operation

**International Marine Channels**

<b>Ch</b>	<b>RX Freq</b>	<b>TX Freq</b>	<b>Status</b>	<b>Name</b>
79	161.575	156.975	Duplex	Port operation
80	161.625	157.025	Duplex	Port operation
81	161.675	157.075	Duplex	Port operation
82	161.725	157.125	Duplex	Port operation
83	161.775	157.175	Duplex	Port operation
84	161.825	157.225	Duplex	Marine operator
85	161.875	157.275	Duplex	Marine operator
86	161.925	157.325	Duplex	Marine operator
87	157.375	157.375	Simplex	Marine operator
88	157.425	157.425	Simplex	Marine operator

# REGULATIONS AND SAFETY WARNINGS

## Basic Radio Guidelines

If you have a VHF radio on your boat, you must maintain a watch on channel 16 (156.800 MHz) whenever the radio is not being used to communicate. Starting in 2004, if a radio is carried, it must be on and set to channel 16. Whenever your boat is underway.

If you hear a distress call, wait a few minutes to let a shore station or Coast Guard vessel respond. If no other station has responded after 5 minutes, you must respond to the distress call.

Do not make false mayday or distress calls as a prank or to test your radio. (This is essentially like making a false urgency call; you may be subject to fines.)

## FCC/Industry Canada Information

Certification: FCC Part 80 or RSS-182

Output Power: 2.5W

Emission: 16K0F3E

Transmitter Frequency Range: 156.025-157.425 MHz

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

Unauthorized changes or modifications to this equipment may void compliance with the FCC Rules. Any change or modification must be approved in writing by PRESIDENT. Changes or modifications not approved by PRESIDENT could void the user's authority to operate the equipment.

## FCC RF Exposure Information

In August 1996 the Federal Communications Commission (FCC) of the United States with its action in Report and Order FCC 96-326 adopted an updated safety standard for human exposure to radio frequency electromagnetic energy emitted by FCC regulated transmitters. Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies. The design of the radio complies with the FCC guidelines and these international standards.

Never allow children to operate the radio without adult supervision and the knowledge of the following guidelines.

**WARNING!** It is up to the user to properly operate this radio transmitter to insure safe operation. Please adhere to the following:



Use only the supplied or an approved antenna. Unauthorized antennas, modifications, or attachments could impair call quality, damage the radio, or violate FCC regulations. Do not use the radio with a damaged antenna. If a damaged antenna comes into contact with the skin, a minor burn may result. Please contact your local dealer for a replacement antenna.

## **RF Exposure Information**

For hand-held operation, the radio should be held 1 inch from the user's face. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements and should be avoided. For more information about RF exposure, please visit the FCC website at [www.fcc.gov](http://www.fcc.gov).

Avoid exposing the battery (whether attached to the radio or not) to direct sunlight, heated cars, or temperatures below  $-4^{\circ}\text{F}$  ( $-20^{\circ}\text{C}$ ) or above  $+140^{\circ}\text{F}$  ( $+60^{\circ}\text{C}$ ). Exposing the chemical contained within the battery pack to temperatures above  $+140^{\circ}\text{F}$  ( $+60^{\circ}\text{C}$ ) may cause the battery to rupture, fail, or reduce performance. In case of exposure to the cell contents, wash the affected area thoroughly, and seek medical attention.

## **Three Year Limited Warranty**

This transceiver has a 3 years warranty for materials and workmanship in its country of purchase against any manufacturing defect recognized by our technical department. It is recommended to read carefully following conditions and to respect them in order not to loose it.

- Any repair under warranty will be free of charge and the transport costs for sending back will be on charge of our company.
- A proof of purchase must compulsorily be added to the transceiver in need of repair.
- Don't install your transceiver without having read this instructions manual.
- Our technical department won't send nor exchange any spare parts as part of warranty.

### ***Are not covered***

- The battery pack.
- Damages caused by accident , shock , inadequate packing or the use of accessories that are not in conformity.
- Interventions that modified the conformity features, repairs or modifications done by third parties which are not agreed by our company.
- Any opening of the housing cancels the warranty.

# Notes

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