

# West Marine

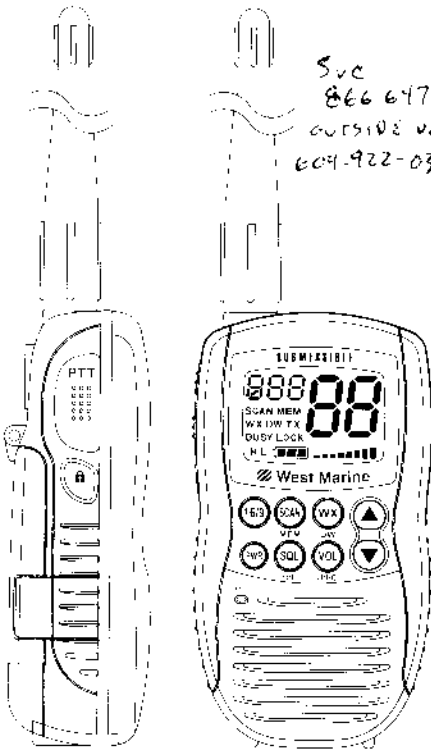
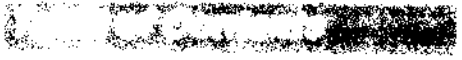
## VHF50 VHF Radio

### Owner's Manual

Purchase West Marine 8/12/06  
in Vista ca 3619

also bought 2 yr extended warranty,  
50 States total coverage

Level 1 MPP2 FL warranty code  
I 2181789 (west marine)



Svc  
866 647 3512  
outside U.S.  
604-922-0305

www.westmarine.com link  
to get site or file etc in

SN 5L 003542 BG

Thank you for purchasing the West Marine VHF-50. This product was designed and built for boaters to use in the harsh marine environment. With proper care this product should provide you with years of trouble-free operation.

Your satisfaction with this product is backed by the entire West Marine organization worldwide.

### Remember:

Safety and distress calls take priority over all others.

You must monitor Channel 16 when you are not operating on another channel.

False or fraudulent distress calls are prohibited under law.

Information overheard but not intended for you cannot lawfully be used in any way.

Indecent or profane language is prohibited.

In the event that the radio fails to perform, or needs servicing, please send directly to our Electronics Repair Center in Hollister, CA. Be sure to include your return mailing information and a detailed accounting of the problems experienced and/or the service requested.

**West Marine**  
**Electronics Repair Center**  
 2395 Bert Court  
 Hollister, CA 95023  
 repair@westmarine.com  
 831-761-4205

## 1. Ship Station License

An FCC ship station license is no longer required for any vessel traveling in US waters which uses a VHF marine radio, RADAR, EPIRB, and which is not required to carry radio equipment. A license is necessary however for a DSC MMSI number, or for any vessel required to carry a marine radio on an international voyage, carrying a HF single side band radiotelephone or marine satellite terminal. For more information, see the FCC's Fact Sheet PR 5000 #14, FCC license forms, including applications for ship (506) and land station licenses can be downloaded via the Internet at [www.fcc.gov/forms](http://www.fcc.gov/forms). To obtain a form from the FCC, call (888) 225-5322.

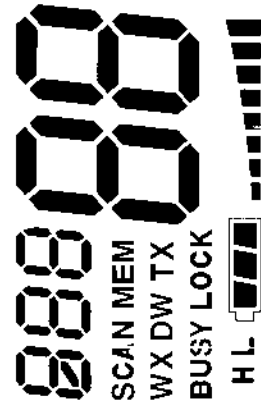
## 2. Radio Call Sign

Currently the FCC does not require recreational boaters to have a Ship Radio Station License. The USCG recommends that the boat's registration number and the state to be used.

## 3. Canadian Ship Station Licensing

You do not need a license if your vessel is not operated in sovereign waters of a country other than Canada or the USA. If you do need a license, contact their nearest field office or regional office or write:

**Industry Canada**  
**Radio Regulatory Branch**  
 Attn: DOSP  
 300 Slater Street  
 Ottawa, Ontario  
 Canada, K1A 0CA



USA/INTERNATIONAL/  
 CANADIAN (UIC) Mode  
 indicator  
 Volume/Squelch  
 indicator

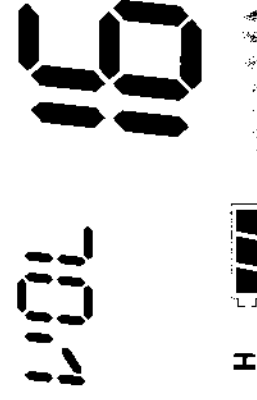


Battery level indicator:  
 more bars indicate the battery  
 is more fully charged

- HL Transmit power indicator:  
 L=Low, H=High
- SCAN Indicates that the radio is in Memory Scan
- MEM Indicates that the channel is entered into the Scan Memory
- WX Indicates that the radio is in Weather Mode
- DW Indicates that the radio is in Dual Watch Mode
- TX Shown when transmitting
- BUSY Shown when receiving
- LOCK Shown when keypad is locked

### Power

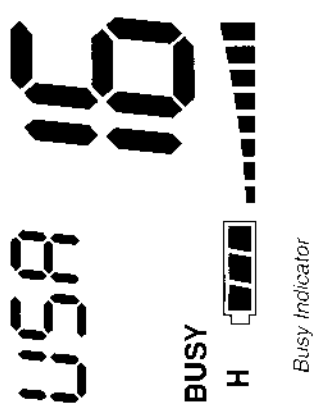
Press and hold the PWR key for more than two seconds to turn the VHF-50 on. The radio will power up in the same condition as it was last used. The last Channel Mode (USA/INT/CAN), Channel, TX Power, Key Lock, Squelch Level, Volume Level, etc. are restored.



Volume Display

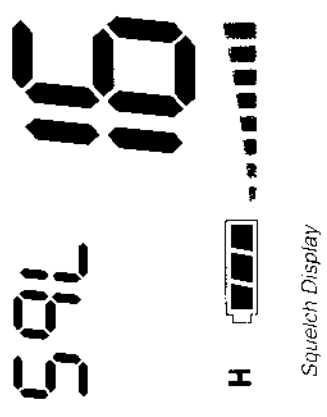
Press and release the VOL/LOC key to enter the Volume Control Mode. VOL will appear on the display (Fig. 1). Press the ▲ or ▼ keys to increase or decrease the volume level bar. Three seconds after the last key stroke, the Volume Display will show the volume level (1-8bars).  
 NOTE: The radio will automatically return to Channel Selection Mode. If the VOL/LOC key is pressed and released when in Volume Control Mode, the radio will return to Channel Selection Mode.

When the radio is receiving a signal, the **BUSY** indicator will be displayed (Fig. 2). This indicates you should not attempt to transmit until the **BUSY** indicator is no longer displayed.



### Squelch Control

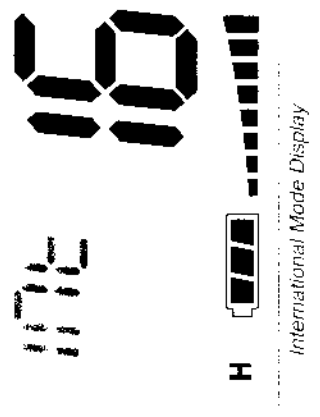
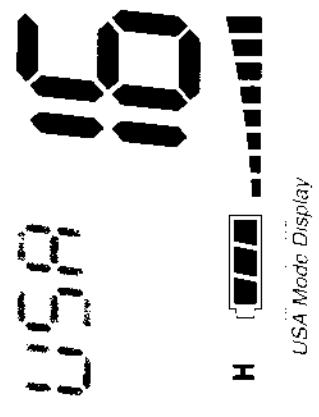
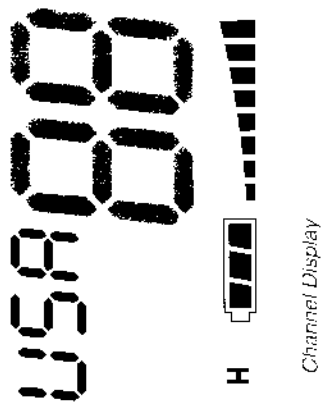
The Squelch Control reduces the static and noise heard on the radio, but allows strong signals to be heard clearly. To adjust the squelch setting, press the **SQL/HL** key briefly. The radio's display will show **SQL** (Fig. 3). Press the **▲** or **▼** keys to increase or decrease the squelch level bar. **NOTE:** Three seconds after the last key stroke, the Squelch Display will show the squelch. The radio will automatically return to Channel Selection Mode. If the **SQL/HL** key is pressed and released when in Squelch Control Mode, the radio will return to Channel Selection Mode.



Higher settings allow only strong signals to be heard. Lower settings allow weak signals to be heard, and possibly static. Generally, the squelch control should be set for the lowest setting that eliminates unwanted static. The lowest setting allows all signals to be heard.

### Changing Channels

To change channels, press the **▲** or **▼** keys. If the **▲** or **▼** keys are pressed for more than one second, the channel will change rapidly. The radio displays the channel number, memory status (MEM) and TX power status of the channel as you change the channels (Fig. 4).

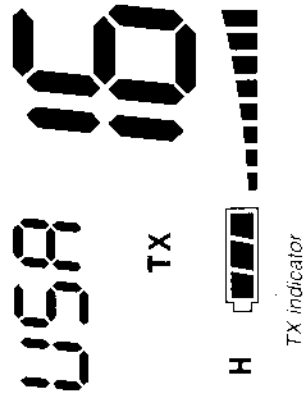


### Country Mode

Different areas of the world use different VHF frequencies, although the channel designation (1-88) may be the same. There are three modes: USA, International, and Canadian. Press and hold the **VOL/PTT** key for two seconds to change from USA to International; to change from International to Canadian; and to change from Canadian to USA (Fig. 5a-5c).

When Country Mode is changed, Channel 16 is automatically selected, not the last channel used. If for some reason you find you cannot communicate with another radio on a predetermined channel, insure both radios are set to correct Channel Mode. This can be confusing if different modes are being used.

To transmit a signal, press the Push To-Talk (PTT) key on the side of the radio. While transmitting, the **TX** indicator will appear (Fig. 6a). When the PTT key is released, the radio will return to Receive Mode.



TX indicator



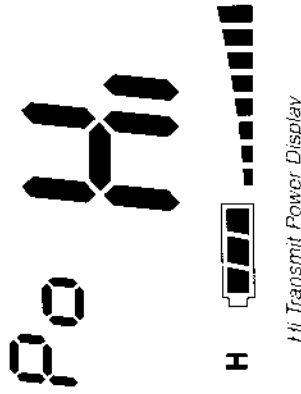
Receive-Only Channel Display

You cannot transmit on receive-only channels like the Weather Channels or Channels 15 and 70. If you try, an error tone will sound, the Channel Number and TX indicators will blink three times, and then go back to the normal display (Fig. 6b).

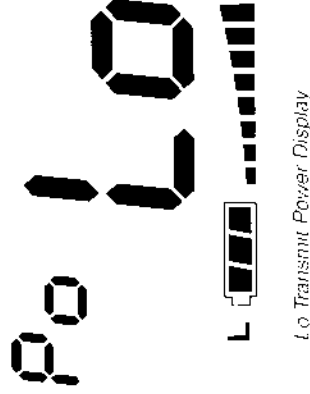
If the PTT key is pressed when the battery condition is low, one last transmission will be allowed, then an error tone will sound with **BAT LO** displayed. No further transmission will be allowed.

Fig. 6a, b. TX indicator and Receive-Only Channel Display

To change the transmit power, press and hold the SQL/HL key for over two seconds (Fig. 7a, 7b).



Hi Transmit Power Display

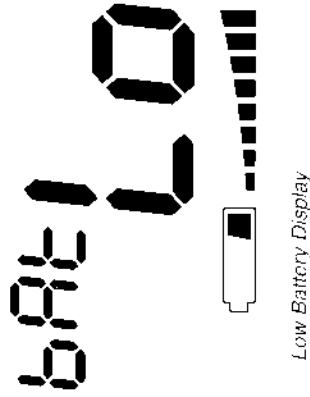


Lo Transmit Power Display

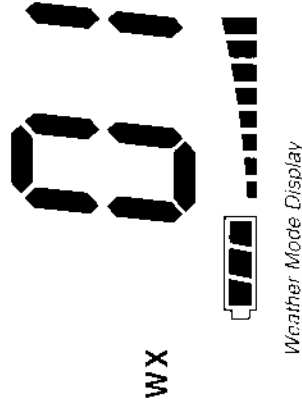
### Restricted Channels

Certain channels are limited by law to 1-watt transmit power (USA Mode Channel 12, 17, 67, 77; INT Mode Channel 15, 17, CAN Mode Channel 12, 15, 17, 20, 66, 77). These channels will always transmit on low (1 watt) power.

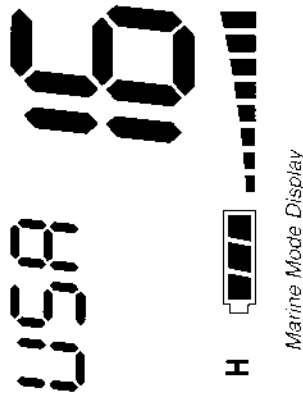
You cannot change the transmit power setting on receive-only channels (all weather channels, USA Mode Channel 15, 70, INT Mode Channel 70, CAN Mode Channel 70). If you press the SQL/HL key while scanning or while on a receive-only channel, the error tone will sound and the transmit power setting will not change.



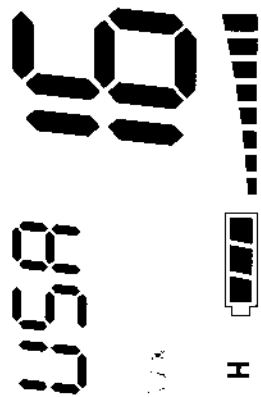
Low Battery Display



Weather Mode Display



Marine Mode Display



WX Mode Temporarily Stopped Display

The Battery Level is shown using the Battery Level Indicator (3 bars). More bars mean more battery capacity is left. When the battery condition is very low, the entire Battery Level Indicator will blink.

The **BAT LO** message will show when the battery condition is very low (Fig. 8).

If the battery condition is very low and the PTT key is pressed, the radio will sound the error tone and allow one final transmission.

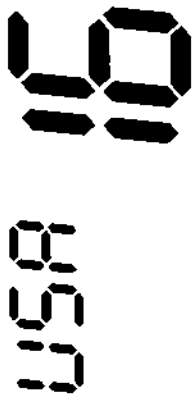
Fig. 8, 9

### WX

To listen to the weather channels, press the Weather (WX) key. Press the **▲** or **▼** keys to select the weather channel of interest for your area (generally Channel 01, 02, or 03) (Fig. 9a). To return to Marine Channel (normal) Mode, press the WX key again.

Pressing several keys (SCAN, MEM, H/L, and U/C) while in the Weather Mode won't have any effect, but will cause the error tone to sound.

Pressing the 16/9 key will cause the radio to monitor Channel 16 and the WX indicator will blink (Fig. 9b, 9c). A second press will monitor Channel 9. A third press will return to Weather Mode.



Channel 16 Display

Channel 16 Display



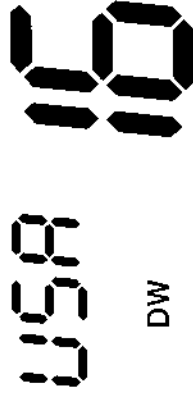
Channel 9 Display

Channel 9 Display



Main Channel Display

Main Channel Display



Dual Watch Channel 16 Display

Dual Watch Channel 16 Display

## Pressing the 9 Key

Each time the 16/9 key is briefly pressed, the radio will change from Channel 16 to Channel 9 and back to the starting channel (Fig. 10a, 10b).

For example, if the starting channel is Channel 61, pressing the 16/9 key will change the channel from 61 to 16 (to 9 and back to 61).

If the radio is scanning, it will change to Channel 16 after the first press.

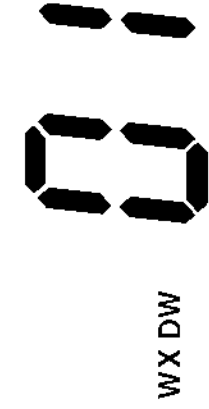
Channel 9 after the second press, and will continue scanning after the third press.

If the radio is in Dual Watch Mode, it will switch to Channel 16, then Channel 9, then return to Dual Watch after the third press.

## Dual Watch Mode

Press and hold the WX/DW key for two seconds to enter Dual Watch Mode. Dual Watch Mode allows you to monitor a desired channel (e.g., Channel 61) as well as Channel 16. To activate Dual Watch Mode, first select the channel you'd like to monitor using the ▲ or ▼ keys, and then press and hold WX/DW key for two seconds. Dual Watch Mode will be selected and the DW indicator will be displayed (Fig. 11a, 11b).

Dual Watch Mode also operates when you're listening to a weather channel. Every two seconds, the radio will briefly check Channel 16 for traffic, then return to the Weather Channel (Fig. 11c).



WX DW

Dual Watch/Weather Mode Display



MEM

Channel in Scan Memory



H

Channel not in Scan Memory

Every two seconds, the radio will check Channel 16 for traffic.

If the radio detects traffic, it will remain on Channel 16 for three seconds after the last transmission (called the Dual Watch Delay), then return to Channel 61.

## Scanning Channels

Scanning allows you to monitor the traffic or conversations on several channels in quick succession. This can be helpful if you're trying to listen to fishing traffic on several channels, or need to monitor Race Committee traffic on Channels 68, 69, and 71.

As the radio detects traffic on any channel in its scan list, it will pause for three seconds after the last transmission, then continue scanning.

Before you can scan channels, you need to place two or more channels into the radio's scan memory.

## Adding and removing channels from memory

To enter the displayed channel into Scan Memory, press and hold the SCAN/MEM key for two seconds. To remove the displayed channel from Scan Memory, press and hold the SCAN/MEM key for two seconds. If the displayed channel is in scan memory, the MEM indicator will be shown (Fig. 12a, 12b).

Pressing the SCAN/MEM key in WX Mode doesn't store the Weather Channel in memory and will result in the error tone.

Pressing the SCAN/MEM key while scanning will stop scanning.

## Scan Mode

Scan Mode scans the programmed channels in ascending or descending order. To enter Scan Mode, press and release the SCAN/MEM key. If Channels 6, 12, 68, 69 and 72 have been entered into memory, the scan sequence will go from Channel 6 to 12 to 68 to 69 to 72 to 6 to 12 and so on. The **SCAN** indicator will be shown (Fig. 12c).

## Notes on Scanning

Pressing the SCAN/MEM key while scanning will stop scanning and revert to the Start Channel (the channel which was shown on the radio's display prior to pressing the SCAN/MEM key). You cannot scan channels while in Weather Mode.

If you have not entered any channels into scan memory, the radio will sound an error tone when the SCAN/MEM key is pressed.

If there is only one channel in scan memory, the radio will sound the error tone and change to that channel. If the PTT key is pressed while in Scanning Mode and while the radio is stopped to receive traffic, the radio will transmit on the current channel before continuing to scan.

If the PTT key is pressed while scanning and the radio is not stopped for traffic, the radio will transmit on the Start Channel.

The SCAN indicator will blink when the radio is either receiving or paused before continuing to scan (Fig. 12d). You can change the order in which the channels are scanned (increasing or decreasing) by pressing the ▲ or ▼ keys.

If the 16/9 key is pressed briefly (less than one second), the radio will switch from Channel 16 to Channel 9 then back to Scan Mode. If the ▲ or ▼ keys are pressed while on Channel 16 or Channel 9, the radio will continue to scan in ascending or descending order.

Pressing the WX/DW key while scanning will change to Weather Mode.

Pressing the SQL/HL key briefly (less than one second) while scanning, will change to Squelch Control Mode. The LCD display will show the squelch level (which can be changed with the ▲ or ▼ keys) and the radio will continue to scan.

If VOL/CIC key is pressed for over two seconds while scanning, the radio will stop scanning and change to Country Selection Mode.

If the SQL/HL key is pressed and held for two seconds while scanning, the radio will make an error tone.

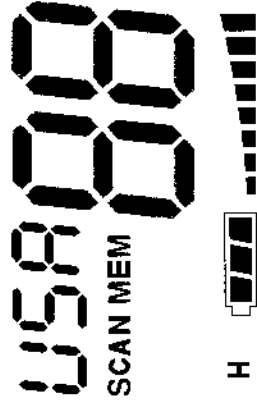
## Key Pad Lock Display

If any key is pressed, the display and keypad light will turn on and remain on for 10 seconds after the last key press.

## Key Pad Lock

If the **A** key (located below the PTT key) is pressed and held for two seconds, **LOCK** will show on the display, and the keypad will not respond to key presses (Fig. 13). Press the **A** key for another two seconds to unlock the keypad.

When keys are locked, only the PTT key and the **A** key are functional. Locking the keypad may cause the radio to appear non-functional. If the radio doesn't seem to be operating properly, look to see if the **LOCK** indicator is on.



Normal Scan Display



Normal Scan Display

## 16. Restoring Factory Settings

If you wish to reset all of the customized settings to the original factory settings, hold the WX/DW key down while turning on the radio. Please note that the your customized settings and channels stored in memory will be lost when factory settings are restored.

### Factory Settings

Country Mode	USA
Last Used Channel	16
WX Mode	Disabled
WX Last Used Channel	01
Key Lock	Disabled
Dual Watch	Disabled
Scan Memory	Disabled
Squelch Level	+
Volume Level	+

## 17. Battery Options for

### the VHF50

The VHF50 comes with the BP50 Li-ion (Lithium Ion) rechargeable battery. For most use, the BP50 battery pack will provide convenient, long life service, and 12 hours of operation. The length of service depends largely on how much time you spend transmitting, and what transmit power you use.

### Charging the BP50

A feature of the Li-ion pack is that you can recharge at any time. The standard charger BC50 will completely recharge the BP50 battery pack in approximately 12 hours. If you need the radio prior to a full charge, you can remove it from the charger base at any state of charge. The BP50 will not be damaged by extended charge time.

When the radio and BP50 are placed in

the BC50 charger base and power is present, the LED on the front of the charger base will be red.

The VHF50 can use the optional DC200 Cigarette Lighter Cord. The DC200 can power the SC50 charger base from any cigarette lighter socket. The DC200 plugs into the charger base in the same socket as the AC power supply.

## 18. Maintenance

The VHF50 is designed to provide years of trouble free operation with virtually no maintenance. Follow these simple procedures to ensure that the VHF50 continues to deliver top performance.

Rinse the VHF50 thoroughly with fresh water after exposure to salt water. Otherwise the radio's keys, switches, and controllers may become inoperable due to salt crystallization. The VHF50 employs JIS 7 waterproof construction (submersion to 1 m. depth for 30 min.). However, waterproofness cannot be guaranteed over time.

Extreme shock (dropping, etc.) may crack the case or dislodge or damage the seals. Additionally, wear or improper battery pack installation can damage the battery compartment seal. Keep your battery clean. Wipe frequently. If visible corrosion appears, remove and replace connector several times to improve the connection.

Never transmit without an antenna attached to avoid damage to the radio.

Avoid using or placing the VHF50 in areas with temperatures below -20°C (-4°F) or above +60°C (+140°F). Do not place in windshields, etc.

## 19. Troubleshooting

<b>Symptom:</b>	The radio does not respond to key presses. The channel cannot be changed.
<b>Probable Cause:</b>	Key Lock is on.
<b>Remedy:</b>	Press the <b>A</b> key (on the left side of the case, below the PTT key) for three seconds to unlock the key pad.
<b>Symptom:</b>	You have arranged to communicate with another VHF radio user on a specific channel, and you can't hear them.
<b>Probable Cause:</b>	You and the other user are on different Country Codes.
<b>Remedy:</b>	Make sure that you are both using the same Country Mode (USA, International, or Canadian). Several channels have the same numeric designation, but are either on different frequencies or the channels are used for different purposes. Channel 16, the Distress, Safety, and Calling channel, is the same on all three bands.
<b>Symptom:</b>	You cannot change the transmit power setting.
<b>Probable Cause:</b>	You are on a channel which is limited to 1 watt transmit power (e.g. Ch. 13) or you are on a "receive only" channel (e.g. WX 1).
<b>Remedy:</b>	Change to an unrestricted TX/RX channel.
<b>Symptom:</b>	The SCAN/MEM key does not start the scan function.
<b>Probable Cause 1:</b>	No channels or one channel are in the SCAN memory.
<b>Remedy 1:</b>	Use the MEM key to enter desired channels into the SCAN memory.
<b>Probable Cause 2:</b>	Squelch is not adjusted correctly.
<b>Remedy 2:</b>	Adjust the squelch to the point that background noise just disappears.
<b>Symptom:</b>	Radio just does not seem to be operating correctly.
<b>Probable Cause:</b>	The radio has become "confused" by an unusual pattern of key presses.
<b>Remedy:</b>	Turn off the radio. Hold down the WX/DW key while turning the radio on. This process will reset the radio to the original factory settings.
<b>Symptom:</b>	Radio will not power up.
<b>Probable Cause:</b>	The battery is exhausted.
<b>Remedy:</b>	Recharge the battery pack.
<b>Symptom:</b>	You can hear transmissions, but the other radio cannot hear you.
<b>Probable Cause:</b>	The transmit power is set to low.
<b>Remedy:</b>	Use the SQL/HL key to select a higher transmit power setting.

Ch.	Rx Freq.	Tx Freq.	Status	Name	Full Name
1	156.0500	156.0500	Duplex	VTS COM1	MARINE OPERATOR
2	156.1000	156.1000	Duplex	CG ONLY	MARINE OPERATOR
3	156.2500	156.1500	Duplex	VIS COM1	MARINE OPERATOR
4	156.3000	156.2000	Duplex	SAFETY	MARINE OPERATOR
5	156.3500	156.2500	Duplex	COMMERCIAL	MARINE OPERATOR
6	156.4000	156.3000	Duplex	COMMERCIAL	MARINE OPERATOR
7	156.4500	156.3500	Duplex	NON COMMERCIAL	INTER SHIP SAFETY
8	156.5000	156.4000	Duplex	COMMERCIAL	MARINE OPERATOR
9	156.5500	156.4500	Duplex	VIS	COMMERCIAL SHIP SHIP
10	156.6000	156.5000	Duplex	VIS	COMMERCIAL SHIP SHIP
11	156.6500	156.5500	Duplex	BRG BRG	COMMERCIAL
12	156.7000	156.6000	Duplex	VTS	VESSEL TRAFFIC SYSTEM
13	156.7500	156.6500	Duplex	ENVIRON	VESSEL TRAFFIC SYSTEM
14	156.8000	156.7000	Duplex	DISTRESS	BRIDGE TO BRIDGE
15	156.8500	156.7500	Duplex	GOVT	VESSEL TRAFFIC SYSTEM
16	156.9000	156.8000	Duplex	COMMERCIAL	ENVIRONMENTAL
17	156.9500	156.8500	Duplex	PORT OPER	DISTRESS SAFETY CALLING
18	157.0000	156.9000	Duplex	CG ONLY	GOVT MARITIME CONTROL
19	157.0500	156.9500	Duplex	CG	COMMERCIAL
20	157.1000	157.0000	Duplex	CG ONLY	PORT OPERATION
21	157.1500	157.0500	Duplex	CG	COAST GUARD ONLY
22	157.2000	157.1000	Duplex	CG ONLY	COAST GUARD
23	157.2500	157.1500	Duplex	CG ONLY	COAST GUARD ONLY
24	161.8000	157.2000	Duplex	MAR OPER	COAST GUARD ONLY
25	161.8500	157.2500	Duplex	MAR OPER	COAST GUARD ONLY
26	161.9000	157.3000	Duplex	MAR OPER	COAST GUARD ONLY
27	161.9500	157.3500	Duplex	MAR OPER	COAST GUARD ONLY
28	162.0000	157.4000	Duplex	MAR OPER	COAST GUARD ONLY
29	162.0500	157.4500	Duplex	MAR OPER	COAST GUARD ONLY
30	162.1000	157.5000	Duplex	MAR OPER	COAST GUARD ONLY
31	162.1500	157.5500	Duplex	MAR OPER	COAST GUARD ONLY
32	162.2000	157.6000	Duplex	MAR OPER	COAST GUARD ONLY
33	162.2500	157.6500	Duplex	MAR OPER	COAST GUARD ONLY
34	162.3000	157.7000	Duplex	MAR OPER	COAST GUARD ONLY
35	162.3500	157.7500	Duplex	MAR OPER	COAST GUARD ONLY
36	162.4000	157.8000	Duplex	MAR OPER	COAST GUARD ONLY
37	162.4500	157.8500	Duplex	MAR OPER	COAST GUARD ONLY
38	162.5000	157.9000	Duplex	MAR OPER	COAST GUARD ONLY
39	162.5500	157.9500	Duplex	MAR OPER	COAST GUARD ONLY
40	162.6000	158.0000	Duplex	MAR OPER	COAST GUARD ONLY
41	162.6500	158.0500	Duplex	MAR OPER	COAST GUARD ONLY
42	162.7000	158.1000	Duplex	MAR OPER	COAST GUARD ONLY
43	162.7500	158.1500	Duplex	MAR OPER	COAST GUARD ONLY
44	162.8000	158.2000	Duplex	MAR OPER	COAST GUARD ONLY
45	162.8500	158.2500	Duplex	MAR OPER	COAST GUARD ONLY
46	162.9000	158.3000	Duplex	MAR OPER	COAST GUARD ONLY
47	162.9500	158.3500	Duplex	MAR OPER	COAST GUARD ONLY
48	163.0000	158.4000	Duplex	MAR OPER	COAST GUARD ONLY
49	163.0500	158.4500	Duplex	MAR OPER	COAST GUARD ONLY
50	163.1000	158.5000	Duplex	MAR OPER	COAST GUARD ONLY
51	163.1500	158.5500	Duplex	MAR OPER	COAST GUARD ONLY
52	163.2000	158.6000	Duplex	MAR OPER	COAST GUARD ONLY
53	163.2500	158.6500	Duplex	MAR OPER	COAST GUARD ONLY
54	163.3000	158.7000	Duplex	MAR OPER	COAST GUARD ONLY
55	163.3500	158.7500	Duplex	MAR OPER	COAST GUARD ONLY
56	163.4000	158.8000	Duplex	MAR OPER	COAST GUARD ONLY
57	163.4500	158.8500	Duplex	MAR OPER	COAST GUARD ONLY
58	163.5000	158.9000	Duplex	MAR OPER	COAST GUARD ONLY
59	163.5500	158.9500	Duplex	MAR OPER	COAST GUARD ONLY
60	163.6000	159.0000	Duplex	MAR OPER	COAST GUARD ONLY
61	163.6500	159.0500	Duplex	MAR OPER	COAST GUARD ONLY
62	163.7000	159.1000	Duplex	MAR OPER	COAST GUARD ONLY
63	163.7500	159.1500	Duplex	MAR OPER	COAST GUARD ONLY
64	163.8000	159.2000	Duplex	MAR OPER	COAST GUARD ONLY
65	163.8500	159.2500	Duplex	MAR OPER	COAST GUARD ONLY
66	163.9000	159.3000	Duplex	MAR OPER	COAST GUARD ONLY
67	163.9500	159.3500	Duplex	MAR OPER	COAST GUARD ONLY
68	164.0000	159.4000	Duplex	MAR OPER	COAST GUARD ONLY
69	164.0500	159.4500	Duplex	MAR OPER	COAST GUARD ONLY
70	164.1000	159.5000	Duplex	MAR OPER	COAST GUARD ONLY
71	164.1500	159.5500	Duplex	MAR OPER	COAST GUARD ONLY
72	164.2000	159.6000	Duplex	MAR OPER	COAST GUARD ONLY
73	164.2500	159.6500	Duplex	MAR OPER	COAST GUARD ONLY
74	164.3000	159.7000	Duplex	MAR OPER	COAST GUARD ONLY
75	164.3500	159.7500	Duplex	MAR OPER	COAST GUARD ONLY
76	164.4000	159.8000	Duplex	MAR OPER	COAST GUARD ONLY
77	164.4500	159.8500	Duplex	MAR OPER	COAST GUARD ONLY
78	164.5000	159.9000	Duplex	MAR OPER	COAST GUARD ONLY
79	164.5500	159.9500	Duplex	MAR OPER	COAST GUARD ONLY
80	164.6000	160.0000	Duplex	MAR OPER	COAST GUARD ONLY
81	164.6500	160.0500	Duplex	MAR OPER	COAST GUARD ONLY
82	164.7000	160.1000	Duplex	MAR OPER	COAST GUARD ONLY
83	164.7500	160.1500	Duplex	MAR OPER	COAST GUARD ONLY
84	164.8000	160.2000	Duplex	MAR OPER	COAST GUARD ONLY
85	164.8500	160.2500	Duplex	MAR OPER	COAST GUARD ONLY
86	164.9000	160.3000	Duplex	MAR OPER	COAST GUARD ONLY
87	164.9500	160.3500	Duplex	MAR OPER	COAST GUARD ONLY
88	165.0000	160.4000	Duplex	MAR OPER	COAST GUARD ONLY
89	165.0500	160.4500	Duplex	MAR OPER	COAST GUARD ONLY
90	165.1000	160.5000	Duplex	MAR OPER	COAST GUARD ONLY
91	165.1500	160.5500	Duplex	MAR OPER	COAST GUARD ONLY
92	165.2000	160.6000	Duplex	MAR OPER	COAST GUARD ONLY
93	165.2500	160.6500	Duplex	MAR OPER	COAST GUARD ONLY
94	165.3000	160.7000	Duplex	MAR OPER	COAST GUARD ONLY
95	165.3500	160.7500	Duplex	MAR OPER	COAST GUARD ONLY
96	165.4000	160.8000	Duplex	MAR OPER	COAST GUARD ONLY
97	165.4500	160.8500	Duplex	MAR OPER	COAST GUARD ONLY
98	165.5000	160.9000	Duplex	MAR OPER	COAST GUARD ONLY
99	165.5500	160.9500	Duplex	MAR OPER	COAST GUARD ONLY
100	165.6000	161.0000	Duplex	MAR OPER	COAST GUARD ONLY

Ch.	Rx Freq	Tx Freq	Stats	Name	Full Name
1	160.6500	156.6500	Duplex	MAR OPER	MARINE OPERATOR
2	160.7000	156.7000	Duplex	MAR OPER	MARINE OPERATOR
3	160.7500	156.7500	Duplex	MAR OPER	MARINE OPERATOR
4	156.2000	156.2000	Simplex	CCG	COAST GUARD
5	156.3500	156.2500	Simplex	VTS	VESSEL TRAFFIC SYSTEM
6	156.3000	156.3000	Simplex	SAILIN	INTR SHIP SAFETY
7	156.6500	156.3500	Simplex	COMMERC	COMMERCIAL
8	156.4000	156.4000	Simplex	CALLING	BOATER CALLING CHANNEL
9	156.4500	156.4500	Simplex	COMMERC	COMMERCIAL
10	156.5000	156.5000	Simplex	VTS	VESSEL TRAFFIC SYSTEM
11	156.5500	156.5500	Simplex	VTS	VESSEL TRAFFIC SYSTEM
12	156.6000	156.6000	Simplex	BRIDGE	BRIDGE TO BRIDGE
13	156.6500	156.6500	Simplex	VTS	VESSEL TRAFFIC SYSTEM
14	156.7000	156.7000	Simplex	ENVIRON	ENVIRONMENTAL
15	156.7500	156.7500	Simplex	DISRESS	DISTRESS SAFETY CALLING
16	156.8000	156.8000	Simplex	SAR	STATE CONTROL
17	156.8500	156.8500	Simplex	COMMERC	COMMERCIAL
18	156.9000	156.9000	Simplex	CCG	CANADIAN COAST GUARD
19	156.9500	156.9500	Simplex	CCG	CANADIAN COAST GUARD
20	167.6000	157.0000	Duplex	PORT OPR	PORT OPERATION
21	157.0500	157.0500	Simplex	CCG	COAST GUARD
22	157.1000	157.1000	Simplex	CCG	COAST GUARD
23	167.7500	157.1500	Duplex	CCG	COAST GUARD
24	167.8000	157.2000	Duplex	MAR OPER	MARINE OPERATOR
25	167.8500	157.2500	Duplex	MAR OPER	MARINE OPERATOR
26	167.9000	157.3000	Duplex	MAR OPER	MARINE OPERATOR
27	167.9500	157.3500	Duplex	MAR OPER	MARINE OPERATOR
28	162.0000	157.4000	Duplex	MAR OPER	MARINE OPERATOR
29	160.6250	156.0250	Duplex	MAR OPER	MARINE OPERATOR
30	156.0750	156.0750	Simplex	CCG	COAST GUARD
31	156.1250	156.1250	Simplex	CCG	COAST GUARD
32	156.1750	156.1750	Simplex	MAR OPER	MARINE OPERATOR
33	156.2250	156.2250	Simplex	RESCUE	SEARCH AND RESCUE
34	156.2750	156.2750	Simplex	PORT OPR	PORT OPERATION
35	156.3250	156.3250	Simplex	BRIDGE	BRIDGE TO BRIDGE
36	156.3750	156.3750	Simplex	MAR COMM	NON COMMERCIAL
37	156.4250	156.4250	Simplex	MAR COMM	NON COMMERCIAL
38	156.4750	156.4750	Simplex	MAR COMM	NON COMMERCIAL
39	156.5250	156.5250	Simplex	DSC	DIGITAL SELECTIVE CALLING
40	156.5750	156.5750	Simplex	MAR COMM	NON COMMERCIAL
41	156.6250	156.6250	Simplex	MAR COMM	NON COMMERCIAL
42	156.6750	156.6750	Simplex	PORT OPR	PORT OPERATION
43	156.7250	156.7250	Simplex	PORT OPR	PORT OPERATION
44	156.7750	156.7750	Simplex	PORT OPR	PORT OPERATION
45	156.8250	156.8250	Simplex	SHIP SHIP	INTER SHIP
46	156.8750	156.8750	Simplex	SHIP SHIP	INTER SHIP
47	156.9250	156.9250	Simplex	SHIP SHIP	INTER SHIP
48	157.0750	157.0750	Simplex	CCG	COAST GUARD
49	157.1250	157.1250	Simplex	CCG	COAST GUARD
50	157.1750	157.1750	Simplex	CCG	COAST GUARD
51	151.8250	157.2250	Duplex	MAR OPER	MARINE OPERATOR
52	151.8750	157.2750	Duplex	MAR OPER	MARINE OPERATOR
53	151.9250	157.3250	Duplex	MAR OPER	MARINE OPERATOR
54	151.9750	157.3750	Duplex	MAR OPER	MARINE OPERATOR
55	152.0250	157.4250	Duplex	MAR OPER	MARINE OPERATOR

Must verify all information in chart below.

Model	Description	Order #
BC50	12 Hr. Std. Charger and AC power supply	5471495
BP55	Lithium Ion Rechargeable Battery Pack	7956543
ANT50	Flexible Rubber Antenna	5635586
SWIV200	Swivel Belt Clip with Button and Mounting Screw	3895638

**Optional Accessory**

DC200	DC Cigarette Lighter power supply for Std. Charger	3895554
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Channels: All except USA, International and Canadian channels, plus 10 Weather Channels

Channel Spacing: 25KHz  
 Supply Voltage: 7.4Vdc 1200mA/1H Li-ion rechargeable battery  
 Current Drain: Standby: 40mA  
 Operating Temperature Range: -20°C to 60°C  
 Battery Life: TX: 5.5 RX: 90% Standby  
 Dimensions: 115mm H x 62mm W x 37mm D; 4.52" H x 2.48" W x 1.45" D  
 Weight: 241g (8.5 ounces) with Li-ion rechargeable battery

Frequency Range: 156.025 to 157.425MHz  
 RF Output Power: Selectable 5W, 1W into 50Ω at 7.4Vdc  
 Spurious Emission & Harmonic: -60dB at 5W, -55dB at 1W  
 AF Distortion: Less than 3% at 1 KHz for +3KHz Deviation  
 Max Deviation: +5KHz  
 Frequency Stability: ±5ppm  
 FM Noise: More than -40dB below audio

Frequency Range: 156.050 to 163.275MHz  
 Circuit Type: Dual conversion superheterodyne  
 Sensitivity: 0.2uV at 12dB SINAD  
 Adjacent Channel Selectivity: More than 60dB  
 Intermodulation Distortion: More than 60dB  
 Spurious Response Rejection: More than 60dB  
 Audio Output Power: 0.5W at 10% distortion into 8Ω load

## NOTE

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

This radio is approved for use with the specific belt clip tested for body-worn SAR compliance. Other belt clips or body worn accessories may not comply and should be avoided.

Unauthorized changes or modifications to this equipment may void compliance with FCC Rules. Any change or modification must be approved in writing by West Marine.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by the following measures:

- Consult the dealer or an experienced marine electronics technician for help.

Your West Marine VHF50 generates RF electromagnetic energy when transmitting. This radio was designed to meet the FCC's rules and regulations for the maximum permissible exposure to radio frequency energy. This design was tested and found to be compliant to the strict requirements established by the FCC.

This radio was designed for and is classified as "General Population Use."

It is up to the user to properly operate this transmitter to ensure safe operation. Please adhere to the following to ensure that your exposure to RF electromagnetic energy is within the FCC allowable limits:

DO NOT operate the radio without a proper antenna attached, as this may damage the radio and may also cause you to exceed FCC RF exposure limits. A proper antenna is the antenna supplied with this radio by the manufacturer or an antenna specifically authorized by the manufacturer to use with this radio. DO NOT transmit for more than 50% of the total radio use time.

Transmitting more than 50% of the time can cause FCC RF exposure compliance requirements to be exceeded. The radio is transmitting when the "TX indicator" is displayed on the screen. You can cause the radio to transmit by pressing the "PTT" switch.

ALWAYS maintain at least a 1-inch (2.5 cm) separation distance between your body (including the face and eyes) and any surface of the radio. NEVER allow the antenna to touch the human body or to come within 1 inch when the transmitter is active.

## Three-Year Limited Warranty

Evidence of original purchase, such as the original receipt, a cancelled check, or a credit card receipt is required for warranty service.

### WEST MARINE PRODUCTS, INC. ("WEST MARINE")

WEST MARINE warrants for three years, to the original retail owner and user, this product to be free from defects in materials and craftsmanship with only the limitations or exclusions set out below.

This warranty to the original retail owner and user shall terminate and be of no further effect 36 months after the date of original retail sale (battery pack warranty duration is 12 months or one year). The warranty is invalid if the Product is (A) damaged or not maintained as reasonable or necessary, (B) modified, altered, or used as part of any conversion kits, subassemblies, or any configurations not sold by WEST MARINE, (C) improperly installed or programmed, (D) serviced or repaired by someone other than an authorized WEST MARINE service center, as provided below, for a defect or malfunction covered by this warranty, (E) used in any conjunction with equipment or parts or as part of any system or subsystem not manufactured by WEST MARINE, or (F) installed or programmed by anyone other than as detailed by the Owner's Manual for this product. **THIS WARRANTY IS NON-TRANSFERRABLE.**

In the event that the product does not conform to this warranty at any time while this warranty is in effect, warrantor will either, at its option, repair or replace the defective unit and return it to you without charge for parts, service, or any other cost (except shipping and handling) incurred by warrantor or its representatives in connection with the performance of this warranty. Warrantor, at its option, may replace the unit with a new or refurbished unit. **THE LIMITED WARRANTY SET FORTH ABOVE IS THE SOLE AND ENTIRE WARRANTY PERTAINING TO THE PRODUCT AND IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES OF ANY NATURE WHATSOEVER, WHETHER EXPRESS, IMPLIED OR ARISING BY OPERATION OF LAW, INCLUDING, BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS WARRANTY DOES NOT COVER OR PROVIDE FOR THE REIMBURSEMENT OR PAYMENT OF INCIDENTAL OR CONSEQUENTIAL DAMAGES.** Some states do not allow this exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state. This warranty is void outside the United States of America.

**RETURN PROCEDURE:** If, after following the instructions in Owner's Manual you are certain that the Product is defective, pack the Product carefully (preferably in its original packaging). The product should include all parts and accessories originally packaged with the Product, include evidence of original purchase and a note describing the defect that has caused you to return it. The Product should be shipped freight prepaid, by traceable means, to WEST MARINE's Authorized Service Center at: