STANDARD HORIZON

ECLIPSE DSC+ GX1200

25 Watt VHF/FM

Class D DSC Marine Transceiver

Owner's Manual

- Affordable ultra compact class D fixed mount VHF radio
- Submersible JIS7/IPX7 class (3.3 feet for 30 minutes) front panel
- Separate dedicated channel 70 receiver for DSC
- Programmable soft keys
- GPS position and time shown* on a full dot matrix display
- DSC distress, individual, group, all ships, position request, position report and DSC test call
- Programmable scan, priority scan, and dual watch
- NMEA in and output connections to a compatible GPS chart plotter
- Microphone capable of selecting 16 and 9, changing channels and H/L transmit power
- All USA/International and Canadian marine channels
- NOAA weather channels with weather alert
- Meets ITU-R M493-13 class D DSC (Digital Selective Calling)

*When GPS connected

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QUICK REFERENCE GUIDE

POWER SWITCH / VOL KNOB
Turn the transceiver on and off, and adjust the audio level.

CHANNEL SELECT KEYS
Selects the operating channel.

CALL / MENU KEY
• Press to access the "DSC MENU".
• Press and hold to access the setup menus.
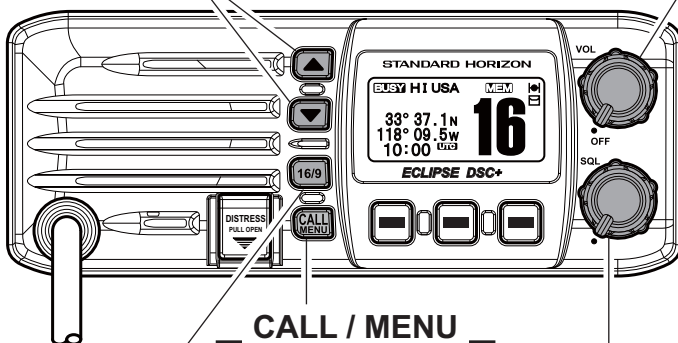
16/9 KEY
• Press to recall channel 16.
• Press and hold to recall channel 9.
• Press again to revert to the last selected channel.

SQL KNOB
Adjust this control clockwise to squelch or counter clockwise un-squelch the radio.

PTT SWITCH
Speak into the microphone in a normal voice level while pressing this switch.
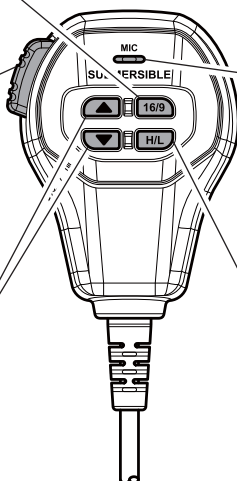
MIC HOLE
Be sure your mouth is about 1/2 inch (1.3 cm) from the mic hole for best performance.

CHANNEL SELECT KEYS
Selects the operating channel.

H/L KEY
When pressed, toggles the transmit power between High (25W) and Low (1W).

1 GENERAL INFORMATION

The **GX1200 ECLIPSE DSC+** is a marine VHF transceiver designed for use in the frequency range of 156.025 to 163.275 MHz. The **GX1200** can be operated from 11 to 16 VDC and has a switchable RF output power of 1 watt or 25 watts.

The **GX1200** is capable of DSC (Digital Selective Calling) Class D (independent Channel 70 receiver) operation which allows continuous receiving of Digital Selective Calling functions on channel 70 even if the radio is receiving a call.

The **GX1200** operates on all currently-allocated marine channels which are switchable for use with either USA, International, or Canadian regulations. It has an emergency channel 16 which can be immediately selected from any channel by pressing the red [16/9] key. NOAA Weather channels can also be accessed immediately by pressing the [WX] soft key.

Other features of the transceiver include: scanning, priority scanning, high and low voltage warning, and GPS repeatability.

2 ON-LINE WARRANTY REGISTRATION (IN USA OR CANADA ONLY)

Please visit www.standardhorizon.com to register the **GX1200** Marine VHF. It should be noted that visiting the website from time to time may be beneficial to you, as new products are released they will appear on the STANDARD HORIZON website.

PRODUCT SUPPORT INQUIRIES

If you have any questions or comments regarding the use of the **GX1200**, you can visit the STANDARD HORIZON website to send an E-Mail (marinetech@yaesu.com) or contact the Product Support team at (800) 767-2450 M-F 8:00AM to 5:00PM PST.

3 PACKING LIST

When the package containing the transceiver is first opened, please check it for the following contents:

- **GX1200** Transceiver
- Mounting Bracket, two Mounting Knobs, and hardware
- Power Cord with 6 Amp fuse and holder
- Owner's Manual
- Warranty Card

4 OPTIONS

MMB-84 ....Flush-Mount Bracket
MLS-310 ....Amplified External Speaker
MLS-300 ....External Loudspeaker
HC1100 ....Dust Cover

5 SAFETY / WARNING INFORMATION

The **GX1200** is restricted to occupational use, work related operations only where the radio operator must have the knowledge to control the exposure conditions of its passengers and bystanders by maintaining the minimum separation distance of 0.6 m (2 feet).

Failure to observe these restrictions will result in exceeding the FCC RF exposure limits.

Antenna Installation:
The antenna must be located at least 0.6 m (2 feet) away from passengers in order to comply with the FCC RF exposure requirements.

6 FCC RADIO LICENSE INFORMATION

Standard Horizon radios comply with the Federal Communication Commission (FCC) requirements that regulate the Maritime Radio Service.

STATION LICENSE

An FCC ship station license is no longer required for any vessel traveling in U.S. waters (except Hawaii) which is under 20 meters in length. However, any vessel required to carry a marine radio on an international voyage, carrying a HF single side band radiotelephone or marine satellite terminal is required to have a ship station license. FCC license forms, including applications for ship (605) and land station licenses can be downloaded via the Internet at http://www.fcc.gov/Forms/Form605/605.html. To obtain a form from the FCC, call (888) 225-5322.

RADIO CALL SIGN

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

CANADIAN SHIP STATION LICENSING

You may need a license when traveling in Canada. If you need a license contact Industry Canada's nearest field office or regional office or write:

Industry Canada
Radio Regulatory Branch
Attn: DOSP
300 Slater Street
Ottawa, Ontario
Canada, KIA 0C8

FCC / INDUSTRY CANADA INFORMATION

The following data pertaining to the transceiver is necessary to fill out the license application.

Type Acceptance ....FCC Part 80
Output Power...1 Watt (low) and 25 Watts (high)
Emission 16K0G3E, 16K0G2B
Frequency Range...156.025 to 163.275 MHz
FCC Type Number...K6630373X3D
Industry Canada Type Approval 511B-30373X3S

7 FCC NOTICE

NOTICE

Unauthorized changes or modifications to this equipment may void compliance with FCC Rules. Any change or modification must be approved in writing by STANDARD HORIZON, a division of YAESU U.S.A.

NOTICE

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 one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

8 GETTING STARTED

8.1 ABOUT VHF RADIO

The radio frequencies used in the VHF marine band lie between 156 and 158 MHz with some shore stations available between 161 and 163 MHz. The marine VHF band provides communications over distances that are essentially "line of sight" (VHF signals do not travel well through objects such as buildings, hills or trees). Actual transmission range depends much more on antenna type, gain and height than on the power output of the transmitter. On a fixed mount 25W radio transmission expected distances can be greater than 15 miles.

8.2 SELECTING AN ANTENNA

Marine antennas are made to radiate signals equally in all horizontal directions, but not straight up. The objective of a marine antenna is to enhance the signal toward the horizon. The degree to which this is accomplished is called the antenna's gain. It is measured in decibels (dB) and is one of the major factors in choosing an antenna. In terms of effective radiated power (ERP), antennas are rated on the basis of how much gain they have over a theoretical antenna with zero gain. A 3 foot, 3dB gain antenna represents twice as much gain over the imaginary antenna.
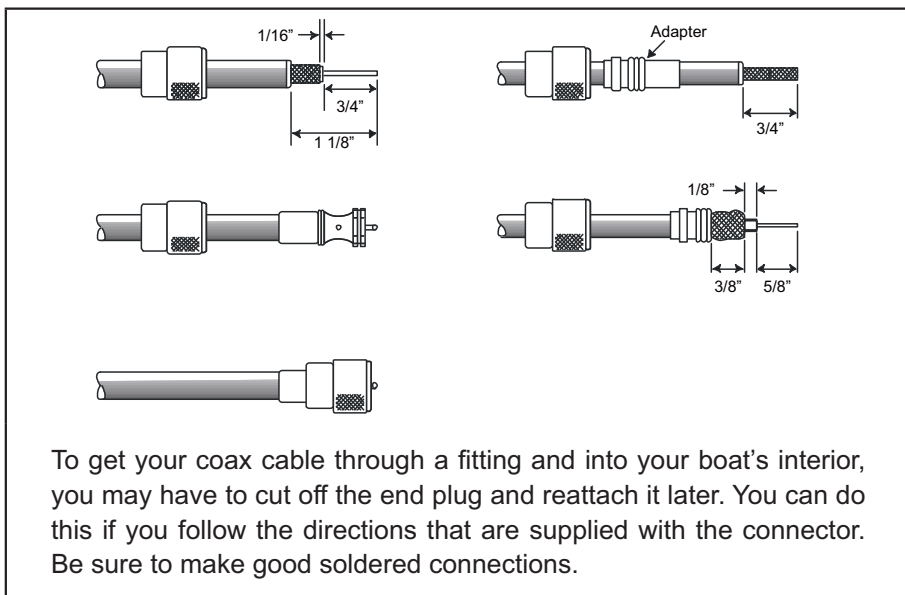
Typically a 3 foot 3dB gain stainless steel whip is used on a sailboat mast. The longer 8 foot 6dB fiberglass whip is primarily used on power boats that require the additional gain.
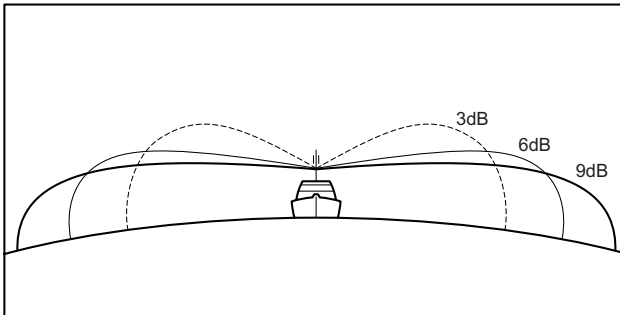
8.3 COAXIAL CABLE

VHF antennas are connected to the transceiver by means of a coaxial cable – a shielded transmission line. Coaxial cable is specified by it's diameter and construction.

For runs less than 20 feet, RG-58/U, about 1/4 inch in diameter is a good choice. For runs over 20 feet but less than 50 feet, the larger RG-8X should be used. For cable runs over 50 feet RG-213 should be used. For installation of the connector onto the coaxial cable refer to the figure below.

To get your coax cable through a fitting and into your boat's interior, you may have to cut off the end plug and reattach it later. You can do this if you follow the directions that are supplied with the connector. Be sure to make good soldered connections.

8.4 EMERGENCY (CHANNEL 16 USE)

Channel 16 is known as the Hail and Distress Channel. An emergency is defined as a threat to life or property. In such instances, be sure the transceiver is on and set to CHANNEL 16. Then use the following procedure:

1. Press the microphone push-to-talk switch and say "*Mayday*, *Mayday*, *Mayday*. This is _____ , _____ , _____ " (your vessel's name).
2. Then repeat once: "*Mayday*, _____ " (your vessel's name).
3. Now report your position in latitude/longitude, or by giving a true or magnetic bearing (state which) to a well-known landmark such as a navigation aid or geographic feature such as an island or harbour entry.
4. Explain the nature of your distress (sinking, collision, aground, fire, heart attack, life-threatening injury, etc.).
5. State the kind of assistance you desire (pumps, medical aid, etc.).
6. Report the number of persons aboard and condition of any injured.
7. Estimate the present seaworthiness and condition of your vessel.
8. Give your vessel's description: length, design (power or sail), color and other distinguishing marks. The total transmission should not exceed 1 minute.
9. End the message by saying "*OVER*." Release the microphone button and listen.
10. If there is no answer, repeat the above procedure. If there is still no response, try another channel.

8.5 CALLING ANOTHER VESSEL (CHANNEL 16 OR 9)

Channel 16 may be used for initial contact (hailing) with another vessel.

However, its most important use is for emergency messages. This channel must be monitored at all times except when actually using another channel.

It is monitored by the European, U.S. and Canadian Coast Guards and by other vessels. **Use of channel 16 for hailing must be limited to initial contact only.** Calling should not exceed 30 seconds, but may be repeated 3 times at 2-minute intervals. In areas of heavy radio traffic, congestion on channel 16 resulting from its use as a hailing channel can be reduced significantly in U.S. waters by using **channel 9** as the initial contact (hailing) channel for non-emergency communications. Here, also, calling time should not exceed 30 seconds but may be repeated 3 times at 2-minute intervals.

Prior to making contact with another vessel, refer to the channel charts in this manual, and select an appropriate channel for communications after initial contact. For example, Channels 68 and 69 are some of the channels available to non-commercial (recreational) boaters. Monitor your desired channel in advance to make sure you will not be interrupting other traffic, and then go back to either channel 16 or 9 for your initial contact.

When the hailing channel (16 or 9) is clear, state the name of the other vessel you wish to call and then "*this is*" followed by the name of your vessel and your Station License (Call Sign). When the other vessel returns your call, immediately request another channel by saying "*go to*," the number of the other channel, and "over." Then switch to the new channel. When the new channel is not busy, call the other vessel.

After a transmission, say "*over*," and release the microphone's push-to-talk (**PTT**) switch. When all communication with the other vessel is completed, end the last transmission by stating your Call Sign and the word "*out*." Note that it is not necessary to state your Call Sign with each transmission, only at the beginning and end of the contact.

Remember to return to Channel 16 when not using another channel. Some radios automatically monitor Channel 16 even when set to other channels or when scanning.

8.6 MAKING TELEPHONE CALLS

To make a radiotelephone call, use a channel designated for this purpose. Check with your local marina to learn which channels are used for radio-telephone traffic. Channels available for such traffic are designated **Public Correspondence** channels on the channel charts in this manual. Some examples for USA use are Channels 24, 25, 26, 27, 28, 84, 85, 86, and 87. Call the marine operator and identify yourself by your vessel's name, the marine operator will then ask you how you will pay for the call (telephone credit card, collect, etc.) and then link your radio transmission to the telephone lines.

The marine telephone operator managing the VHF channel you are using may charge a link-up fee in addition to the cost of the call.

8.7 OPERATING ON CHANNELS 13 AND 67

Channel 13 is used at docks, bridges and by vessels manoeuvring in port. Messages on this channel must concern navigation only, such as meeting and passing in restricted waters.

Channel 67 is used for navigational traffic between vessels.

By regulation, power is normally limited to 1 Watt on these channels. Your radio is programmed to automatically reduce power to this limit on these channels. However, in certain situations it may be necessary to temporarily use a higher power. See page 25 (⬚ key) for means to temporarily override the low-power limit on these two channels.

9 INSTALLATION

9.1 LOCATION

The radio can be mounted at any angle. Choose a mounting location that:

- keeps the radio and microphone at least 3.3 ft (1 m) away from your vessel's magnetic navigation compass
- provides accessibility to the front panel controls
- allows connection to a power source and an antenna
- has nearby space for installation of a microphone hanger
- the antenna must be mounted at least 3.3 ft (1 m) from radio

Note: To insure the radio does not affect the compass, or that the radios performance is not affected by the antenna location, temporarily connect the radio in the desired location and:

- a. Examine the compass to see if the radio causes any deviation
- b. Connect the antenna and key the radio. Check to ensure the radio is operating correctly by requesting a radio check.

9.2 MOUNTING THE RADIO

9.2.1 Supplied Mounting Bracket

The supplied mounting bracket allows overhead or desktop mounting.

Use a 13/64" (5.2 mm) bit to drill the holes to a surface which is more 0.4 inch (10 mm) thick and can support more than 3.3 lbs (1.5 kg). Secure the bracket with the supplied screws, spring washers, flat washers, and nuts.

Desktop Mounting   **Overhead Mounting**
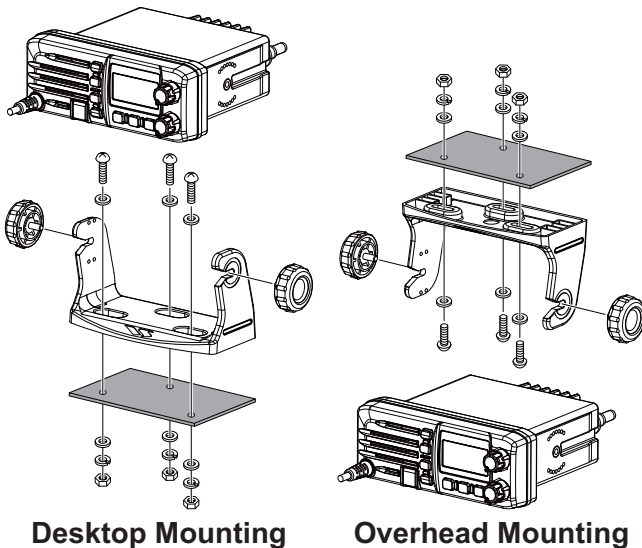
9.2.2 Optional MMB-84 Flush Mount Bracket

1. To assist in flush mounting, a template has been included. Use this template to assess the mounting location.
2. Use the template to mark the location where the rectangular hole is to be cut. Confirm the space behind the dash or panel is deep enough to accommodate the transceiver (at least 6.7 inches or 17 cm deep).
   There should be at least 1/2 inch (1.3 cm) between the transceiver's heatsink and any wiring, cables or structures.
3. Cut out the rectangular hole and insert the transceiver.
4. Fasten the brackets to the sides of the transceiver with the lock washer nut combination, so that the mounting screw base faces the mounting surface.
5. Turn the adjusting screw to adjust the tension so that the transceiver is tight against the mounting surface.
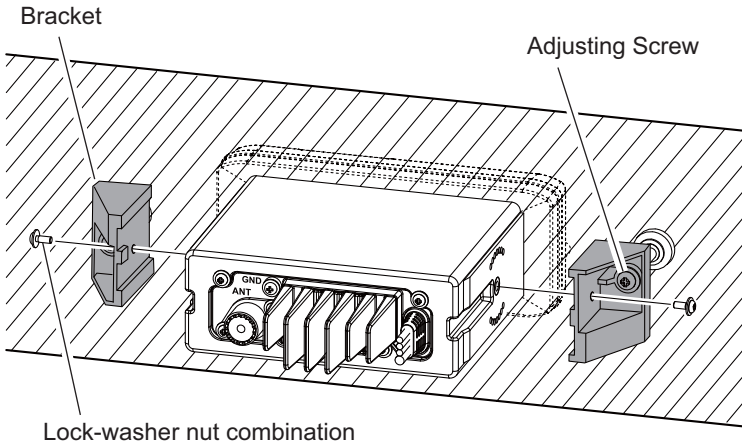
MMB-84 Flush Mount Installation

9.3 ELECTRICAL CONNECTIONS

CAUTION

Reverse polarity connections will damage the radio!

Connect the power cord and antenna to the radio. Antenna and Power Supply connections are as follows (see Figure 1):

1. Mount the antenna at least 1 m away from the radio. At the rear of the radio, connect the antenna cable.
2. Connect the red power wire to a 13.8 VDC ±20% power source. Connect the black power wire to a negative ground.
3. If an optional remote extension speaker is to be used, refer to next section for connections.
4. It is advisable to have a Certified Marine Technician check the power output and the standing wave ratio of the antenna after installation.
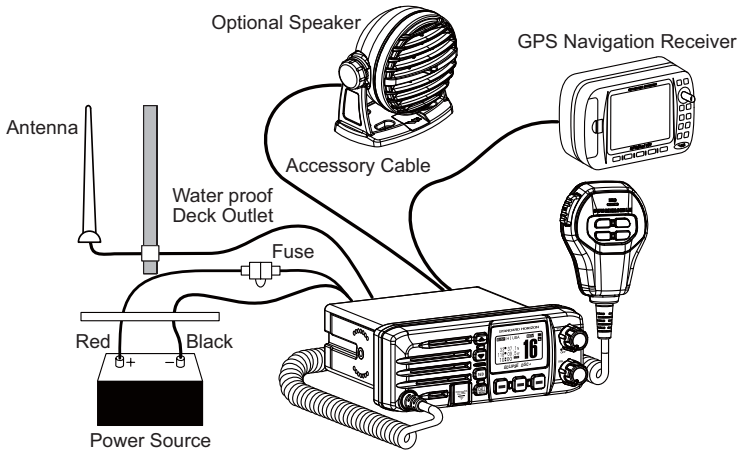
Figure 1. General Installation

Fuse Replacement

To take out the Fuse from the Fuse Holder, hold both ends of the Fuse Holder and pull the Fuse Holder apart, do not bend the Fuse Holder. When you replace the Fuse, please confirm that the Fuse is tightly fixed on the metal contact located inside the Fuse Holder. If the metal contact holding the fuse is loose, the Fuse holder may heat up.
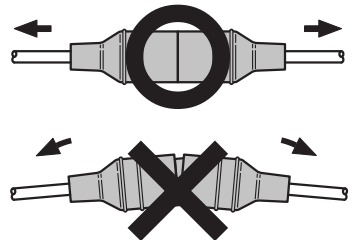
9.4 ACCESSORY CABLE

When connecting the external speaker or GPS navigation receiver, strip off about 1 inch (2.5 cm) of the specified wire's insulation, then splice the ends together using proper waterproofing techniques.

Wire Color/Description	Connection Examples
WHITE - External Speaker (+)	Connect to external 4-ohm audio speaker
SHIELD - External Speaker (−)	Connect to external 4-ohm audio speaker
BLUE - NMEA GPS Input (+)	Connect to NMEA (+) output of GPS
GREEN - NMEA GPS Input (−)[※]	Connect to NMEA (−) output or common ground of GPS
GRAY - NMEA DSC Output (+)	Connect to NMEA (+) input of GPS
BROWN - NMEA GPS Output (−)[※]	Connect to NMEA (−) input of GPS

※: Some GPS chart plotters have a single wire for NMEA signal ground. In such a case connect the NMEA input (−) to the GPS chart plotter's single NMEA signal ground wire, and leave the NMEA output (−) open. In case the assignment of power supply and ground of a GPS chart plotter to be used is different from that of the radio, connect the signal ground wire of the GPS chart plotter to the ground terminal (GND) on the rear panel of the radio.
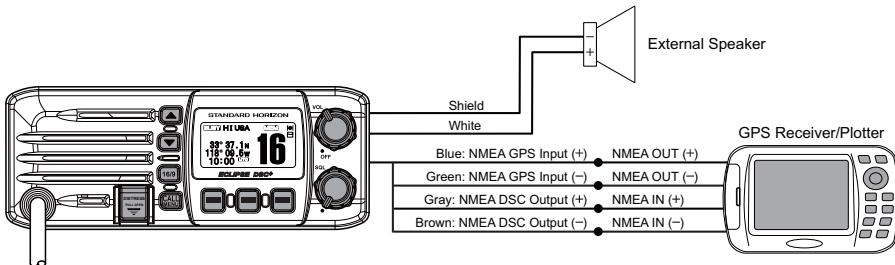
- The GPS must have the NMEA Output turned on and set to 4800 Baud in the setup menu. If there is a selection for parity select none.
- For further information on interfacing /setting up your GPS. Please contact the manufacturer of the GPS receiver.
- **GX1200** can read NMEA-0183 version 2.0 or higher.
- The NMEA supported sentences are:
  Input: GLL, GGA, RMC and GNS (RMC sentence is recommended)
  Output: DSC and DSE

9.5 CHECKING GPS CONNECTIONS

After connections have been made between the **GX1200** and the GPS, a small satellite icon will appear on the top right corner of the display, and displays your current location (Latitude/Longitude) on the display
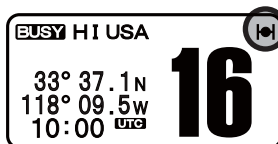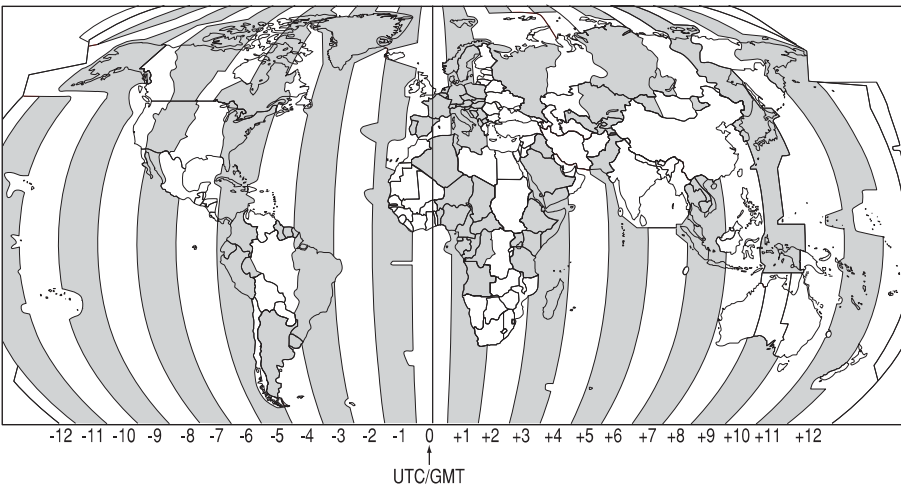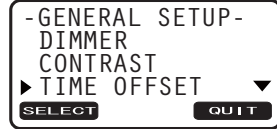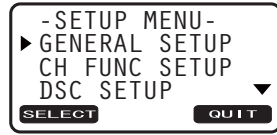
NOTE

- If there is a problem with the NMEA input from a GPS, the satellite icon will blink continuously until the connection is corrected.
- If a GPS with NMEA output is not connected to the radio, the **GX1200** will beep 10 minutes after the radio is turned on. After that the **GX1200** will beep every 4 hours alerting to connect a GPS.

9.6 CHANGING THE GPS TIME

From the factory the **GX1200** displays GPS satellite time or UTC time. A time offset is needed to show the local time in your area.

1. Press and hold the 🔲 key until "SETUP MENU" appears.
2. Select "GENERAL SETUP" with the 🔲 / 🔲 keys, then press the SELECT soft key.
3. Select "TIME OFFSET" with the 🔲 / 🔲 keys, then press the SELECT soft key.
4. Press the 🔲 / 🔲 keys to select time offset from UTC. See illustration below to find your offset time from UTC. If "00:00" is assigned, the time is the same as UTC (Universal Time Coordinated or GMT Greenwich Mean Time).
5. Press the ENT soft key to store the time offset.
6. Press the 16/9 key or press the QUIT soft key twice to exit the menu and return to radio operation mode.

```
-SETUP MENU-
▶GENERAL SETUP
 CH FUNC SETUP
 DSC SETUP        ▼
 SELECT      QUIT
```
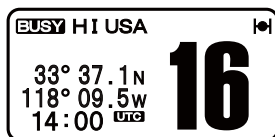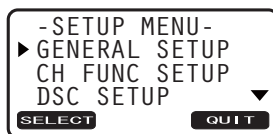
```
-GENERAL SETUP-
 DIMMER
 CONTRAST
▶TIME OFFSET     ▼
 SELECT      QUIT
```

```
-TIME OFFSET-
 +01:00          ▲
 +00:30
▶ 00:00          ▼
 ENT         QUIT
```

-12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 +1 +2 +3 +4 +5 +6 +7 +8 +9 +10 +11 +12
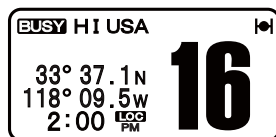
UTC/GMT

OFFSET TIME TABLE

9.7 CHANGING THE TIME LOCATION

This menu item allows you to choose to show UTC or the local time which is selected in Section 9.6.

1. Press and hold the [CALL MENU] key until "SETUP MENU" appears.
2. Select "GENERAL SETUP" with the [▲] / [▼] keys, then press the [SELECT] soft key.
3. Select "TIME DISPLAY" with the [▲] / [▼] keys, then press the [SELECT] soft key.
4. Press the [▲] / [▼] to select "UTC" or "LOCAL".
5. Press the [ENT] soft key to store the selected setting.
6. Press the [16/9] key or press the [QUIT] soft key twice to exit the menu and return to radio operation mode.

```
-SETUP MENU-
▶GENERAL SETUP
 CH FUNC SETUP
 DSC SETUP        ▼
 SELECT      QUIT
```

```
-GENERAL SETUP-
 CONTRAST        ▲
 TIME OFFSET
▶TIME DISPLAY    ▼
 SELECT      QUIT
```

```
-TIME DISPLAY-
▶UTC
 LOCAL

 ENT        QUIT
```

```
BUSY HI USA          |◄|
 33° 37.1N        16
118° 09.5W
 14:00 UTC
```
("UTC" mode)

```
BUSY HI USA          |◄|
 33° 37.1N        16
118° 09.5W
  2:00 LOC PM
```
("LOCAL" mode)

9.8 CHANGING THE TIME FORMAT

This menu item allows you to choose to show time in 12-hour or 24-hour format.

1. Press and hold the [CALL MENU] key until "SETUP MENU" appears.
2. Select "GENERAL SETUP" with the [▲] / [▼] keys, then press the [SELECT] soft key.
3. Select "TIME FORMAT" with the [▲] / [▼] keys, then press the [SELECT] soft key.
4. Press the [▲] / [▼] to select "12H" or "24H".
5. Press the [ENT] soft key to store the selected setting.
6. Press the [16/9] key or press the [QUIT] soft key twice to exit the menu and return to radio operation mode.

```
-SETUP MENU-
▶GENERAL SETUP
 CH FUNC SETUP
 DSC SETUP        ▼
 SELECT      QUIT
```

```
-GENERAL SETUP-
 TIME OFFSET     ▲
 TIME DISPLAY
▶TIME FORMAT     ▼
 SELECT      QUIT
```

```
-TIME FORMAT-
▶12H
 24H

 ENT        QUIT
```
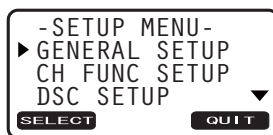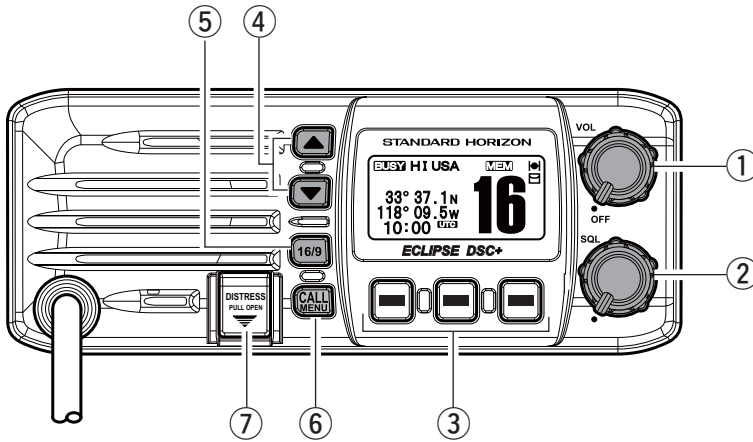
10.1 Front Panel

① **Power Switch / Volume Control Knob** (**VOL**)

Turns the transceiver on and off as well as adjusts the audio volume.

Turn this knob clockwise to turn the radio on and to increase the speaker audio volume level.

Turn fully counter-clockwise to turn the radio off.

② **Squelch Control Knob** (**SQL**)

Adjusting this control clockwise, sets the point at which random noise on the channel does not activate the audio circuits but a received signal will. This point is called the squelch threshold. Further adjustment of the squelch control will degrade reception of wanted transmissions.

③ **Soft Keys**

The 3 programmable soft keys can be customized by the setup menu mode (see the section "**13.1.6 SOFT KEYS**"). When one of the soft keys is pressed briefly, the functions will appear above each key on the display.

The factory defaults are Key 1: WX , Key 2: SCAN , Key 3: DW and Key 4: PRESET function.

Appropriate functions are automatically assigned to these keys during the setup menu and the DSC operations.

④ ⬆ / ⬇ **Keys**
   The ⬆ and ⬇ keys are used to select a desired channel and to select items in the DSC operation and setup menus.

⑤ 🔘 **Key**
   Immediately recalls channel 16 from any channel location and automatically selects high power. Pressing and holding this key recalls channel 9. Pressing the 🔘 key again reverts to the previous selected working channel.

⑥ 🔘 **Key**
   Press the 🔘 key to access the "DSC MENU". The "INDIVIDUAL", "GROUP", "ALL SHIPS", "POS REQUEST", "POS REPORT", "DIST ALT MSG", "DSC LOG", "DSC TEST", and "POLLING" functions can be accessed from the "DSC MENU".

NOTE

   Before the "DSC MENU" menu can be selected a MMSI must be entered. Refer to section "**12.2 MARITIME MOBILE SERVICE IDENTITY** (**MMSI**)."

   Secondary use
   Press and hold the 🔘 key to access the "SETUP MENU". The "GENERAL SETUP" (refer to section "**13.1 GENERAL SETUP**"), "CH FUNC SETUP" (refer to section "**13.2 CHANNEL FUNCTION SETUP**"), "DSC SETUP" (refer to section "**13.3 DSC SETUP**"), "POS INPUT", and "MMSI SETUP" functions can be accessed from the "SETUP MENU".

⑦ **[DISTRESS] Key**
   Used to send a DSC Distress Call. To send the distress call refer to section "**12.3.1 Transmitting a Distress Alert**".

10.2 Rear Panel
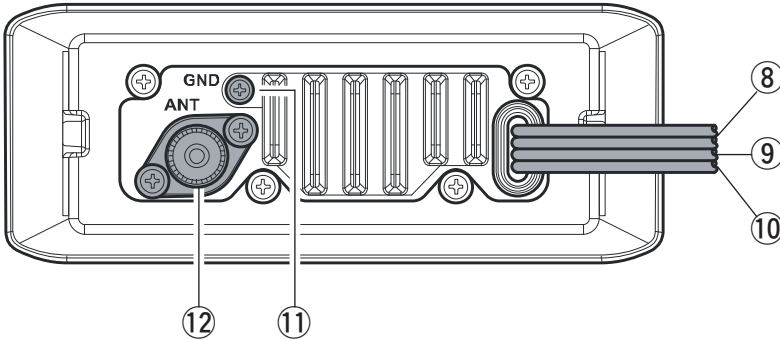
⑧ **DC Input Cable**
Connects the radio to a DC power supply capable of delivering 12V DC.

⑨ **External Speaker Connection Cable**
Connects the **GX1200** to an external speaker.

⑩ **GPS Receiver Connection Cable**
Connects the **GX1200** to a GPS receiver.

⑪ **Ground Terminal (GND)**
Connects the **GX1200** to a good ground, for safety and optimum performance.
Normally, the **GND** connection to the heat sink is not needed. However, when the DC power cable connection to the radio has a long run, the transmitter may become unstable and the receiving audio may be noisy. In such a case, connect a large diameter, short cable between this terminal on the heat sink and battery ground.
Install only the supplied screw or similar size (M3x6, Stainless Steel) screw.

⑫ **Antenna Jack (ANT)**
Connects an antenna to the transceiver. Use a marine VHF antenna with an impedance of 50 ohms.
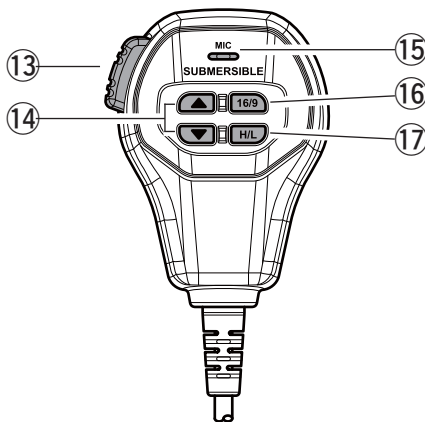
10.3 Microphone

⑬ **PTT (Push-To-Talk) Switch**
Keys the transmitter when the transceiver is in radio mode.

⑭ **⬆ / ⬇ Keys**
The ⬆ and ⬇ keys on the microphone function the same as the ⬆ and ⬇ keys on the front panel of the transceiver.

⑮ **MIC (Microphone) Hole**
Transmits the voice message with reduction of background noise, using Clear Voice Noise Reduction Technology.

NOTE

Be sure your mouth is about 1/2 inch (1.3 cm) from the MIC hole for best performance.

⑯ **16/9 Key**
The 16/9 key on the microphone functions the same as the 16/9 key on the front panel of the transceiver.
Immediately recalls channel 16 from any channel location. Pressing and holding this key recalls channel 9. Pressing the 16/9 key again reverts to the previously selected working channel.

⑰ **H/L Key**
Press this key to toggle the transmit output power between 25 W (High) and 1 W (Low) power. When the H/L key is pressed while the transceiver is on channel 13 or 67, the power will temporarily switch from LO to HI power until the **PTT** is released.
The H/L key does not function on transmit inhibited and low power only channels.

NOTE

1W low power is indicated by LO on the display. When 25W high power is selected the display do not show an indication.

11 BASIC OPERATION

11.1 RECEPTION

1. After the **GX1200** has been installed, ensure that the power supply and antenna are properly connected.
2. Turn the **VOL/PWR** knob clockwise to turn the transceiver on.
3. Turn the **SQL** knob fully counterclockwise. This state is known as "squelch off".
4. Turn up the **VOL** knob until noise or audio from the speaker is at a comfortable level.
5. Turn the **SQL** knob clockwise until the random noise disappears. This state is known as the "squelch threshold."
6. Press the ▲ or ▼ keys to select the desired channel. Refer to the channel chart on page 98 for available channels.
7. When a message is received, adjust the volume to the desired listening level. The "**BUSY**" indicator on the LCD is displayed indicating that the channel is being used.

11.2 TRANSMISSION

1. Perform steps 1 through 6 of RECEPTION.
2. Before transmitting, monitor the channel to ensure it is clear. **THIS IS AN FCC REQUIREMENT!**
3   Press the **PTT** (push-to-talk) switch. The "**TX**" indicator in the LCD is displayed.
4. Speak slowly and clearly into the microphone.

NOTE

This is a noise cancelling microphone. The oval slot on the microphone should be positioned within 1/2 inch (1.3 cm) from the mouth for optimum performance.

5. When the transmission is finished, release the **PTT** switch.

11.3 TRANSMIT TIME-OUT TIMER (TOT)

When the **PTT** switch on the microphone is held down, transmit time is limited to 5 minutes. This limits unintentional transmissions due to a stuck microphone. About 10 seconds before automatic transmitter shutdown, a warning beep will be heard from the speaker(s). The transceiver will automatically go to receive mode, even if the **PTT** switch is continually held down. Before transmitting again, the **PTT** switch must first be released and then pressed again.

NOTE

When a transmission was shut down by the TOT, the **GX1200** can not transmit afterwards for 10 seconds.

11.4 SIMPLEX/DUPLEX CHANNEL USE

Refer to the VHF MARINE CHANNEL CHART (page 98) for instructions on use of simplex and duplex channels.

NOTE

All channels are factory-programmed in accordance with International, Industry Canada (Canada), and FCC (USA) regulations. Mode of operation cannot be altered from simplex to duplex or vice-versa.

11.5 USA, INTERNATIONAL, AND CANADA MODE

To change the channel group from USA to Canada or International:

1. Press and hold the [CALL/MENU] key until "SETUP MENU" appears.
2. Press the [▲] / [▼] key to select "CH FUNC SETUP".
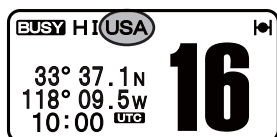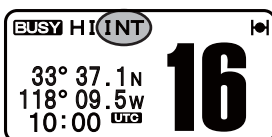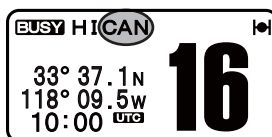3. Press the [SELECT] soft key, then press the [▲] / [▼] key to select "CH GROUP".
4. Press the [SELECT] soft key.
5. Press the [▲] / [▼] key to select desired channel group "USA", "INT", or "CAN".
6. Press the [ENT] soft key to store the selected setting.
7. Press the [16/9] key or press the [QUIT] soft key twice to exit the menu and return to radio operation mode.

USA Mode	International Mode	Canada Mode
BUSY HI USA ▶◀ 33° 37.1N 118° 09.5w 10:00 UTC **16**	BUSY HI INT ▶◀ 33° 37.1N 118° 09.5w 10:00 UTC **16**	BUSY HI CAN ▶◀ 33° 37.1N 118° 09.5w 10:00 UTC **16**

Refer to the VHF MARINE CHANNEL CHART (page 98) for allocated channels in each mode.

11.6 NOAA WEATHER CHANNELS

NOTE

NOAA Weather channels are available in USA and Canada only.

1. To receive a NOAA weather channel, press one of the soft keys momentarily, then press the [WX] soft key from any channel. The transceiver will go to the last selected weather channel, and the "**WX**" icon appears on the display.

   BUSY WX ▶◀
   33° 37.1N
   118° 09.5w
   10:00 UTC **01**

2. Press the [▲] / [▼] keys to select a different NOAA weather channel.
3. To exit from the NOAA weather channels, press the one of the soft keys momentarily, then press the [WX] soft key. The transceiver returns to the channel it was on prior to a weather channel and the "**WX**" icon disappears from the display.
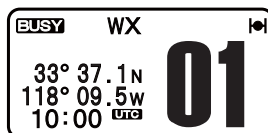
11.6.1 NOAA Weather Alert

In the event of extreme weather disturbances, such as storms and hurri-canes, the NOAA (National Oceanic and Atmospheric Administration) sends a weather alert accompanied by a 1050 Hz tone and subsequent weather report on one of the NOAA weather channels. The **GX1200** can receive weather alerts while receiving a weather channel or scanning weather channels.

When an alert is received on a NOAA weather channel, scanning will stop and the transceiver will emit a loud beep to alert the user of a NOAA broadcast. Press any key to stop the alert and receive the weather report. Press the `QUIT` soft key to return to the last selected channel.
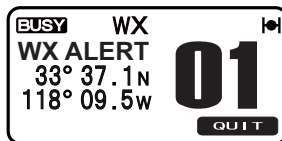
To disable the Weather Alert function, refer to section "**13.2.6 WX ALERT**".

NOTE

☐ If a key is not pressed the alert tone will be emitted for 5 minutes and then the weather report will be received.
☐ The Weather Alert feature is also engaged while the transceiver is receiving on one of the NOAA weather channels.

11.6.2 NOAA Weather Alert Testing

NOAA tests the alert system every Wednesday between 11AM and 1PM. To test the **GX1200**'s NOAA Weather alert feature, on Wednesday between 11AM and 1PM, setup as in the previous section and confirm the alert is heard.

11.7 SCANNING

Allows the user to select the scan type from Memory scan or Priority scan. "Memory scan" scans the channels that were programmed into memory. "Priority scan" scans the channels programmed in memory with the priority channel.

11.7.1 Selecting the Scan Type

1. Press and hold the 📟 key until "SETUP MENU" appears.
2. Select "CH FUNC SETUP" with the ▲ / ▼ keys, then press the SELECT soft key.
3. Select "SCAN TYPE" with the ▲ / ▼ keys, then press the SELECT soft key.
4. Press the ▲ / ▼ keys to select "PRIORITY SCAN" or "MEMORY SCAN."
5. Press the ENT soft key to store the selected setting.
6. Press the 16/9 key or press the QUIT soft key twice to exit the menu and return to radio operation mode.

```
-SETUP MENU-
 GENERAL SETUP
▶CH FUNC SETUP
 DSC SETUP       ▼
 SELECT     QUIT
```

```
-CH FUNC SETUP-
 CH GROUP
 SCAN MEMORY
▶SCAN TYPE       ▼
 SELECT     QUIT
```

```
-SCAN TYPE-
▶PRIORITY SCAN
 MEMORY SCAN

 ENT        QUIT
```
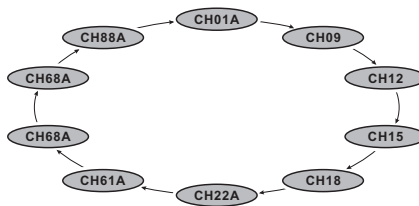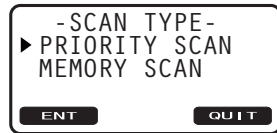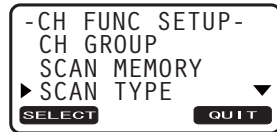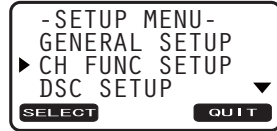

MEMORY SCAN (M-SCAN)
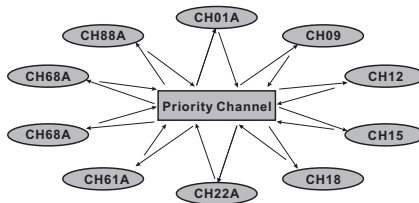
PRIORITY SCAN (P-SCAN)

11.7.2 Scan Memory Programming

1. Press and hold the 📞 key until "S E T U P MENU" appears.

2. Press the 🔼 / 🔽 key to select "CH FUNC SETUP".

3. Press the SELECT soft key, then press the 🔼 / 🔽 key to select "SCAN MEMORY".

4. Press the SELECT soft key.

5. Press the 🔼 / 🔽 key to select a desired channel to be scanned, then press the ADD soft key. The "**MEM**" icon appears on the display, which indicates the channel has been selected to the scan channel.

```
-SETUP MENU-
 GENERAL SETUP
▶CH FUNC SETUP
 DSC SETUP        ▼
SELECT       QUIT
```

```
-CH FUNC SETUP-
 CH GROUP
▶SCAN MEMORY
 SCAN TYPE        ▼
SELECT       QUIT
```

```
-SCAN MEMORY-
▶16   MEM        ▲
 15
 14              ▼
 ADD   DEL   QUIT
```

6. Repeat step 5 for all the desired channels to be scanned.

7. To delete a channel from the list, select the channel then press the DEL soft key. The "**MEM**" icon disappears from the display.

8. Press the 16/9 key or press the QUIT soft key three times to exit the menu and return to radio operation mode.
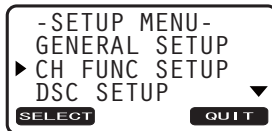
NOTE

The channel group of channels to be scanned must be selected before scanning. Refer to the section "**11.5 USA, INTERNATIONAL, AND CANADA MODE**" for the marine channels, and the section "**11.6 NOAA WEATHER CHANNELS**" for the weather channels.

11.7.3 Memory Scanning (**M-SCAN**)

1. Adjust the **SQL** knob until background noise disappears.
2. To start scanning, press one of the soft keys, then press the `SCAN` soft key (it may be necessary to press the `NEXT` soft key to locate the `SCAN` soft key). "M-SCAN" appears on the LCD. Scanning will proceed from the lowest to the highest programmed channel number and will stop on a channel when a transmission is received.
3. The channel number will blink during reception.
4. To stop scanning, press the `16/9` key or press one of the soft keys, then press the `SCAN` soft key.
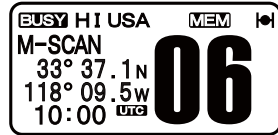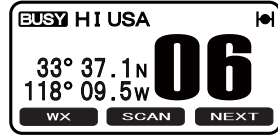
11.7.4 Priority Scanning (P-SCAN)

In the default setting, Channel 16 is set as the priority channel. You may change the priority channel to another channel from Channel 16 in the Radio Setup Mode, refer to section "**13.2 PRIORITY CHANNEL**".

1. Adjust the **SQL** knob until background noise disappears.
2. To start priority scanning, press one of the soft keys, then press the `SCAN` soft key (it may be necessary to press the `NEXT` soft key to locate the `SCAN` soft key). "P-SCAN" appears on the LCD. Scanning will proceed between the memorized channels and the priority channel. The priority channel will be scanned after each programmed channel.
3. To stop scanning, press the `16/9` key or press one of the soft keys, then press the `SCAN` soft key.
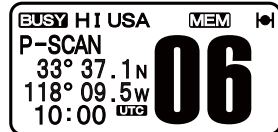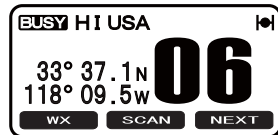
11.7.5 Priority Channel Setting

1. Press and hold the 🔘 key until "S E T U P MENU" appears.

2. Select "CH FUNC SETUP" with the ⬆ / ⬇ keys, then press the SELECT soft key.

3. Select "PRIORITY CH" with the ⬆ / ⬇ keys, then press the SELECT soft key.

4. Press the ⬆ / ⬇ keys to select the Priority channel.

5. Press the ENT soft key to store the selected setting.

6. Press the 16/9 key or press the QUIT soft key twice to exit the menu and return to radio operation mode.

```
-SETUP MENU-
 GENERAL SETUP
▶CH FUNC SETUP
 DSC SETUP        ▼
SELECT      QUIT
```

```
-CH FUNC SETUP-
 SCAN TYPE       ▲
 SCAN RESUME
▶PRIORITY CH     ▼
SELECT      QUIT
```

```
-PRIORITY CH-
▶ 16             ▲
  15
  14             ▼
 ENT        QUIT
```
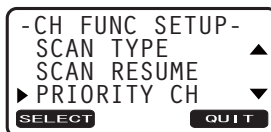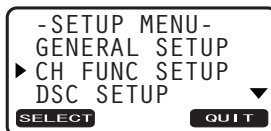
11.7.6 Dual Watch

Dual watch is used to scan two channels for communications. One channel is a normal VHF channel and the other is the priority, channel 16. When a signal is received on the normal channel the radio briefly switches between the normal channel and the channel 16 to look for a transmission. If the radio receives communications on the channel 16 the radio stops and listens to the channel 16 until communication ends and then starts Dual watch scan again.

1. Adjust the **SQL** knob until the background noise disappears.
2. Select the channel you wish to dual watch to the priority channel 16.
3. Press one of the soft keys, then press the DW soft key (it may be necessary to press the NEXT soft key to locate the DW soft key).

   The display will scan between CH16 and the channel that was selected in step 2.

   If a transmission is received on the channel selected in step 2, the **GX1200** will dual watch to CH16.

4. To stop Dual Watch, press one of the soft keys, then press the DW soft key again.

```
BUSY HI USA        ◄►
33° 37.1N    06
118° 09.5w
 WX    SCAN   NEXT
```

```
BUSY HI USA   MEM  ◄►
DW-16
 33° 37.1N   06
118° 09.5w
 10:00 UTC
```
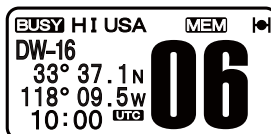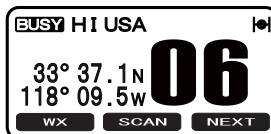
NOTE

The priority channel may be changed from CH16 to another channel. Refer to section "**13.2 PRIORITY CHANNEL**".

11.8 PRESET CHANNELS (0 ~ 9)

10 preset channels can be programmed for instant access. Pressing the PRESET soft key activates the preset channel bank. If the PRESET soft key is pressed and no channels have been assigned, an alert beep will be emitted from the speaker.

For details about the assignment of the PRESET and other soft keys, see "**13.1.6 Soft Keys**".

11.8.1 Preset Channel Programming

1. Press the △ / ▽ key to select the channel to be programmed.
2. Press one of the soft keys, then press and hold the PRESET soft key until the channel number blinks.
3. Press the △ / ▽ key to select the desired preset channel position ("P0:" to "P9:") you wish to program.
4. Press the ADD soft key to program the channel into the preset channel.
5. Repeat steps 1 through 4 to program the desired channels into the preset channels "0" ~ "9".
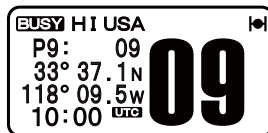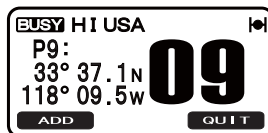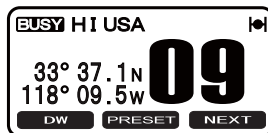
11.8.2 Operation

1. Press one of the soft keys, then press the PRESET soft key to recall the preset channel. The "**PSET**" icon will appear on the display.
2. Press the △ / ▽ key to select the desired preset channel ("0" to "9"). The preset channel number appears ("P0" to "P9") while selecting the preset channel.
3. Press one of the soft keys, then press the PRESET soft key again to return to the last selected channel. The "**PSET**" icon will disappear from the display.
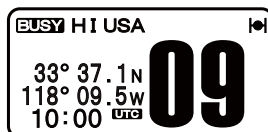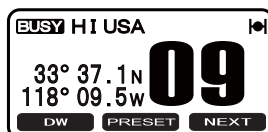
11.8.3 Deleting a Preset Channel

1. Press one of the soft keys, then press the **PRESET** soft key.
2. Press the ▲ / ▼ key to select the preset channel to be deleted.
3. Press one of the soft keys, then press and hold the **PRESET** soft key until the channel number blinks.
4. Press the **DEL** soft key to delete the channel from the preset channel.
5. Repeat steps 2 through 4 to delete the desired channels from the preset channels "0" to "9".
6. To finish the deleting the preset Channel, press the **QUIT** soft key.
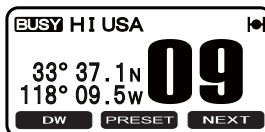
12 DIGITAL SELECTIVE CALLING

12.1 GENERAL

WARNING

The **GX1200** is designed to generate digital maritime distress and safety calls to facilitate search and rescue. To be effective as a safety device, this equipment must be used only within communication range of a shore-based VHF marine channel 70 distress and safety watch system. The range of signal may vary, however under normal conditions should be approximately 20 nautical miles.

Digital Selective Calling is a semi-automated method of establishing a radio call. It has been designated by the International Maritime Organization (IMO) as an international standard for establishing VHF, MF, and HF radio calls. It has also been designated as part of the Global Maritime Distress and Safety System (GMDSS). It is planned that DSC will eventually replace aural watches on distress frequencies and will be used to announce routine and urgent maritime safety information broadcasts.

This system allows mariners to instantly send a distress call with GPS position (when connected to the transceiver) to the Coast Guard and other vessels within range of the transmission. DSC will also allow mariners to initiate or receive Distress, Urgency, Safety, Routine, POSITION REQUEST, POSITION SEND, and Group calls to or from another vessel equipped with a DSC transceiver.

12.2 MARITIME MOBILE SERVICE IDENTITY (MMSI)

12.2.1 What is an MMSI?

An MMSI is a nine digit number used on Marine radios capable of using Digital Selective Calling (DSC). This number is used like a telephone number to selectively call other vessels.

THIS NUMBER MUST BE PROGRAMMED INTO THE RADIO TO OPERATE DSC FUNCTIONS.

How can I obtain an MMSI assignment?
In USA, visit the following websites to register:
       http://www.boatus.com/mmsi/
       http://seatow.com/boating_safety/mmsi.asp
       http://www.usps.org/php/mmsi/rules.php
In Canada, visit
      http://www.ic.gc.ca/epic/site/smt-gst.nsf/en/sf01032e.html

12.2.2 Programming the MMSI

WARNING

The MMSI can be input only once. Therefore, *please be careful not to input the incorrect MMSI number*. If you need to change the MMSI number after it has been entered, the radio will have to be returned to Factory Service. Refer to the section "**14.2 FACTORY SERVICE**."

1. Press and hold the 📞 key until the "SETUP MENU" appears.
2. Press the 🔼 / 🔽 key to select "MMSI SETUP".
3. Press the SELECT soft key. (To cancel, press the QUIT soft key.)
4. Press the 🔼 / 🔽 key to select the first number of your MMSI, then press the ENT soft key to step to the next number.
5. Repeat step 4 to set your MMSI number (nine digits).
6. If a mistake was made entering in the MMSI number, press the BACK soft key until the wrong number is selected, then press the 🔼 / 🔽 key to correct the entry and press the ENT soft key.
7. When finished programming the MMSI number, press and hold the ENT soft key. The radio will ask you to input the MMSI number again. Use steps 4 through 6 above.
8. After the second number has been input, press and hold the ENT soft to store the MMSI.
9. Press the OK soft key to return to the setup menu.
10. Press the 🔳 key or press the QUIT soft key twice to exit the menu and return to radio operation mode.

```
-SETUP MENU-
 DSC SETUP        ▲
 POS INPUT
▶MMSI SETUP
SELECT      QUIT
```

```
-USER MMSI-
 INPUT MMSI
 ID:---------
ENT   BACK   QUIT
```

```
-USER MMSI-
 INPUT MMSI
 ID:1--------
ENT   BACK   QUIT
```

```
-USER MMSI-
 INPUT MMSI
 ID:123456789
ENT   BACK   QUIT
```

```
-USER MMSI-
 INPUT AGAIN
 ID:---------
ENT   BACK   QUIT
```

```
-USER MMSI-
 INPUT AGAIN
 ID:123456789
ENT   BACK   QUIT
```

```
-USER MMSI-
 STORED ID
 123456789
      OK
```
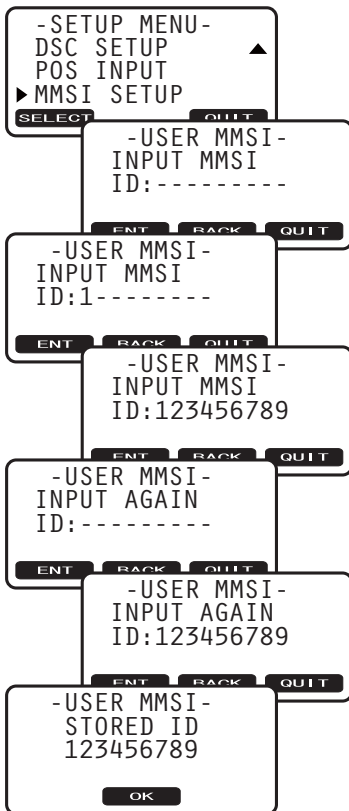
12.3 DSC DISTRESS ALERT

The **GX1200** is capable of transmitting and receiving DSC distress messages to all DSC radios. The **GX1200** may be connected to a GPS to also transmit the latitude and longitude of the vessel.

NOTE

If a GPS with NMEA output is not connected to the radio, the **GX1200** will beep 10 minutes after the radio is turned on and will continue to beep every 4 hours alerting to connect a GPS.

12.3.1 Transmitting a DSC Distress Alert

NOTE

To be able to transmit a DSC distress alert, an MMSI number must be programmed (refer to section "**12.2.2 Programming the MMSI**").

In order for your vessel's location to be transmitted, either connect a GPS to the **GX1200** (refer to section "**9.4 ACCESSORY CABLE**") or manually input your position (refer to section "**12.11 MANUAL INPUTTING OF THE GPS LOCATION**").

Basic Operation

1. Lift the red spring loaded DISTRESS cover, then press and hold the [**DISTRESS**] key. The "DISTRESS" menu will appear on the LCD and the radios display will count down (3S → 2S → 1S) and then transmit the distress alert. The backlight of the LCD and keypad flashes while the radios display is counting down.

```
!!DISTRESS!!
UNDESIGNATED
TIME FOR 3S
                 QUIT
```

```
!!DISTRESS!!
UNDESIGNATED
TIME FOR 3S
```

2. The **GX1200** watches for an acknowledgment call on channel 70 or a voice call on channel 16 from another vessel.

3. If an vessel responds to you on channel 16, pick up the microphone and advise your distress situation.

```
!!DISTRESS!!
TRANSMITTING
TX IN  0:00
```

4. When a DSC distress acknowledgment is received on channel 70, a DSC distress alarm sounds and channel 16 is automatically selected. Pick up the microphone and advise your distress situation. The LCD shows the MMSI of the ship responding to your distress.

```
!!DISTRESS!!
WAIT FOR ACK
TX IN  2:25

PAUSE CANCEL POS/TM
```
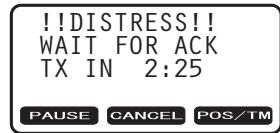
    RECEIVED ACK: acknowledgment signal is received.
    RECEIVED RLY ACK: relay acknowledgment signal is received from another vessel or coast station.
5. If no acknowledgment is received, the distress alert is repeated at approximately 4 minute intervals until a DSC acknowledgment is received.
6. To cancel the DSC distress alarm signal from the speaker, press any key.

Transmitting a DSC Distress Alert with Nature of Distress
The **GX1200** is capable of transmitting a DSC distress alert with the following "Nature of Distress" categories:

    Undesignated, Fire, Flooding, Collision, Grounding, Capsizing, Sinking, Adrift, Abandoning, Piracy, Mob

1. Press the [CALL/MENU] key. The "DSC MENU" will appear.
2. Press the [▲] / [▼] keys to select "DIST ALT MSG", and then press the SELECT soft key. (To cancel, press the QUIT soft key.)

```
 -DSC MENU-
 POS REQUEST      ▲
 POS REPORT
▶DIST ALT MSG     ▼
 SELECT      QUIT
```

3. The "DISTRESS" menu will appear on the LCD. Press the NATURE soft key.

```
 !!DISTRESS!!
 UNDESIGNATED
  33°37.1N
 118°09.5W        ▼
 NATURE POS/TM QUIT
```

4. Press the [▲] / [▼] keys to select the desired nature of distress category, then press the SELECT soft key.
5. Press and hold the [**DISTRESS**] key until a distress alert is transmitted.

```
 !!NATURE OF!!
▶UNDESIGNATED
 FIRE
 FLOODING         ▼
 SELECT      QUIT
```

6. Perform the steps 2 through 6 of the basic operation described in the previous section.

NOTE

After the radio transmits the DSC call, the display of the radio will show the next time the distress call will be transmitted. The display will show "TX IN 4:00" and count down until the distress call is transmitted.

Transmitting a DSC Distress Alert with Manually Entering a Position

When the **GX1200** is not connected to a GPS receiver or the GPS is not operating properly, you may input the latitude/longitude of your vessel manually and may send a DSC distress alert.

1. Press the 📵 key. The "DSC MENU" will appear.
2. Press the ▲ / ▼ keys to select "DIST ALT MSG", and then press the SELECT soft key. (To cancel, press the QUIT soft key.)
3. The "DISTRESS" menu will appear on the LCD. Press the POS/TM soft key.
4. Enter UTC time in the 24-hour format and the latitude/longitude of your vessel. Press the ▲ / ▼ keys to select the number and press the ENT soft key to move the cursor to the next character. If you make a mistake, you may back space the cursor by pressing the BACK soft key.
5. When you have completed your selection, press and hold the ENT soft key for two seconds to save the setting.
6. Press and hold the [**DISTRESS**] key until a distress alert is transmitted.
7. Perform the steps 2 through 6 of the basic operation described in the previous section.

```
  -DSC MENU-
 POS REQUEST      ▲
 POS REPORT
▶DIST ALT MSG     ▼
SELECT        QUIT
```

```
 !!DISTRESS!!
 UNDESIGNATED
  33°37.1N
 118°09.5W         ▼
NATURE POS/TM QUIT
```

```
  -POS INPUT-
 UTC: --:--
 LAT: --°--.-
 LON:---°--.-
 ENT   BACK   QUIT
```

```
  -POS INPUT-
 UTC: 12:35
 LAT: 33°34.N
 LON:118°08.W
 ENT   BACK   QUIT
```

Pausing a DSC Distress Alert

After a DSC distress call is transmitted, it is repeated every 4 minutes until the call is canceled by the user or until the radio is turned off and on again. The **GX1200** has provision to suspend (pause) the re-transmitting of the distress call by the procedure below.

1. After the distress call is transmitted, the radio will show the display as on the right.
   Looking at this display you will notice "TX IN 2:25", this is the time when the radio will re-transmit the distress call.

```
!!DISTRESS!!
WAIT FOR ACK
TX IN  2:25
PAUSE  CANCEL  POS/TM
```

2. To suspend re-transmitting the distress call, press the PAUSE soft key.

```
BUSY HI USA        |◄|
DISTRESS
PAUSING!          16
RESUME  CANCEL
```

3. To resume counting down to transmit the distress call, press the RESUME soft key.
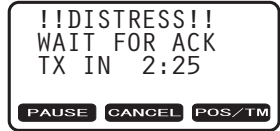
Canceling a DSC Distress Alert

The **GX1200** has the capability to transmit a DSC distress cancel call by pressing the CANCEL soft key, then press the YES soft key.

```
!!DISTRESS!!
WAIT FOR ACK
TX IN  2:25
PAUSE  CANCEL  POS/TM
```

```
!DIST CANCEL!

TRANSMIT?

YES              NO
```
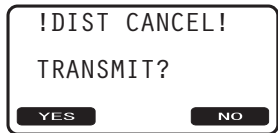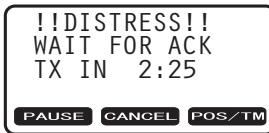
12.3.2 Receiving a DSC Distress Alert

1. When a DSC distress alert is received, an emergency alarm sounds.
   The display will show the MMSI (or name) of the vessel transmitting the distress.

```
RX DISTRESS
NOT ACKED
123456789
SINCE   0:01   ▼
ACCEPT  PAUSE   QUIT
```
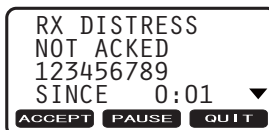
2. Press any of the keys on the radio to stop the alarm.
3. To show the nature of distress and GPS position of the vessel in distress, press the ▼ key.
4. If a key is not pressed for thirty seconds (by default; refer to the section "**13.3.9 Auto Channel Switching Time**") after a DSC call is received, the **GX1200** will automatically switch to channel 16 for you to monitor distress communications.
5. To immediately switch to channel 16, press the ACCEPT soft key.
6. Press the PAUSE soft key to suspend the acknowledgement.
   Press the RESUME soft key to resume the acknowledgement.

```
BUSY HI USA           ▶◀
DISTRESS
PAUSING!       16
              RESUME  QUIT
```

7. If you want the radio to stay on the channel you were on before receiving the distress call, press the QUIT soft key.
8. If the position of the vessel distress data does not include position, the LCD will show "NO POSITION".

```
RX DISTRESS
NOT ACKED
123456789
SINCE   0:01   ▼
               QUIT
```

9. Press the QUIT soft key to return to radio operation mode.
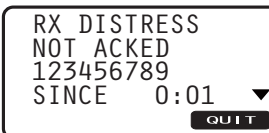
NOTE

When there is an unread distress alert, "⊟" icon will appear on the display. You may review the unread distress alert from the DSC log, refer to the section "**12.12.2 Reviewing a Logged Distress Call**."

12.4 ALL SHIPS CALL

The all ships call function allows contact to be established with other vessel stations without having their ID in the individual calling directory. Also, priority for the call can be designated as "urgency" or "safety".

URGENCY Call: This type of call is used when a vessel may not truly be in distress, but has a potential problem that may lead to a distress situation. This call is the same as saying "PAN PAN, PAN PAN, PAN PAN" on channel 16.

SAFETY Call: This type of call is used to transmit boating safety information to other vessels. This message usually contains information about an overdue boat, debris in the water, loss of a navigation aid or an important meteorological message. This call is the same as saying "Securite, Securite, Securite."

12.4.1 Transmitting an All Ships Call

1. Press the 📟 key. The "DSC MENU" will appear.
2. Press the ▲ / ▼ keys to select "ALL SHIPS."
3. Press the SELECT soft key. (To cancel, press the QUIT soft key)
4. Press the ▲ / ▼ keys to select the call ("SAFETY" or "URGENCY"), then press the SELECT soft key.
5. Press the ▲ / ▼ keys to select the operating channel you want to communicate on, then press the SELECT soft key.
6. Press the YES soft key again to transmit the selected call type of all ships call.
7. After the all ships call is transmitted, the transceiver will switch to the channel which selected on the step 5 above, with no change of the display. To change the display, press the QUIT soft key.

```
         -DSC MENU-
       ▶ INDIVIDUAL
         GROUP
         ALL SHIPS        ▼
       SELEC
```

```
           -DSC MENU-
            INDIVIDUAL
            GROUP
          ▶ ALL SHIPS      ▼
          SELECT      QUIT
```

```
         -CATEGORY-
       ▶ SAFETY
         URGENCY

       SELEC        QUI
```

```
            -SELECT CH-
          ▶ 16
            06
            08               ▼
                       QUIT
```

```
         -ALL SHIPS-

         SAFETY
         TRANSMIT?
         YES
```

```
             -ALL SHIPS-
             SAFETY
             CH: 16

             TRANSMITTING
```

```
         -ALL SHIPS-
         SAFETY
         CH: 16   0:01

                       QUIT
```
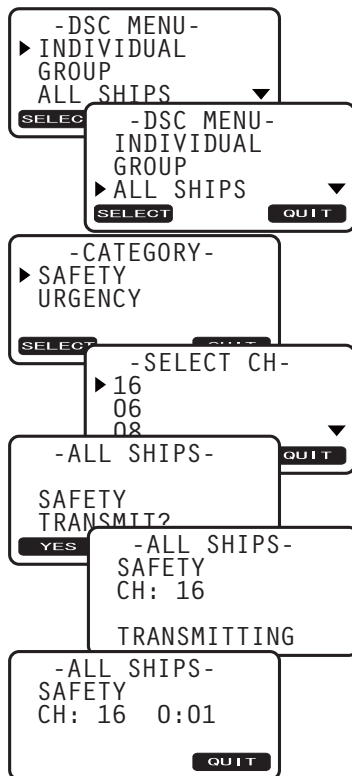
8. Listen to the channel to make sure it is not busy, then key the microphone and say "PAN PAN, PAN PAN, PAN PAN" or "Securite, Securite, Securite" depending on the priority of the call. Say your call sign and announce the channel you wish to switch to for communications.
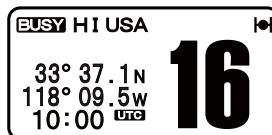
12.4.2 Receiving an All Ships Call

1. When an all ships call is received, an emergency alarm sounds.
    The display will show the MMSI (or name) of the vessel transmitting the all ships call.
2. Press any of the keys on the radio to stop the alarm.
3. To show the nature of the call of the vessel, press the ▼ key.
4. If a key is not pressed for thirty seconds (by default; refer to the section "**13.3.9 Auto Channel Switching Time**") after an all ships call is received, the **GX1200** will automatically switch to the requested channel for you to monitor communications.
5. To immediately switch to requested channel, press the ACCEPT soft key.
6. Press the PAUSE soft key to suspend the acknowledgement.
    Press the RESUME soft key to resume the acknowledgement.
7. If you want the radio to stay on the channel you were on before receiving the all ships call, press the QUIT soft key.
8. Press the QUIT soft key to display the operating channel number of the requested channel.
9. Press the **PTT** switch on the microphone and talk to the calling ship.

12.5 INDIVIDUAL CALL

This feature allows the **GX1200** to contact another vessel with a DSC VHF radio and automatically switch the receiving radio to a desired communications channel. This feature is similar to calling a vessel on CH16 and requesting to go to another channel (switching to the channel is private between the two stations).

12.5.1 Setting up the Individual / Position Call Directory

The **GX1200** has a DSC directory that allows you to store a vessel or person's name and the MMSI number associated with vessels you wish to transmit individual calls, position requests and position report transmissions. The **GX1200** can store up to 48 individual MMSI numbers with vessel's or person's names.

To transmit an Individual call you must program this directory with the information of the persons you wish to call, similar to a cellular phones directory.

1. Press and hold the [CALL MENU] key until "SETUP MENU" appears.
2. Press the [▲] / [▼] keys to select "DSC SETUP" menu.
3. Press the [SELECT] soft key , then select "INDIVI DIR" with the [▲] / [▼] keys.
4. Press the [SELECT] soft key, then select "ADD" with the [▲] / [▼] keys.
5. Press the [SELECT] soft key.
6. Press the [▲] / [▼] keys to scroll to the first letter of the name of the vessel or person you want to list in the directory.
7. Press the [ENT] soft key to store the first letter of the name and step to the next letter to the right.
8. Repeat step 6 and 7 until the name is complete. The name can consist of up to eleven characters, if you do not use all eleven characters press the [ENT] soft key to move to the next space. This method can also be used to enter a blank space in the name. To clear the previous letter, press the [BACK] soft key.

```
-SETUP MENU-
▶GENERAL SETUP
 CH FUNC SETUP
 DSC SETUP      ▼
[SELECT]      [QUIT]
```

```
-SETUP MENU-
 GENERAL SETUP
 CH FUNC SETUP
▶DSC SETUP      ▼
[SELECT]      [QUIT]
```

```
-DSC SETUP-
▶INDIVI DIR
 INDIVI REPLY
 INDIVI ACK     ▼
[SELECT]      [QUIT]
```

```
-INDIVI DIR-
▶ADD
 EDIT
 DELETE
[SELECT]      [QUIT]
```

```
-INDIVI DIR-
STATION NAME

 ID:---------
[ENT]  [BACK]  [QUIT]
```

9. After the eleventh letter or space has been entered, press and hold the `ENT` soft key to advance to the MMSI number (Maritime Mobile Service Identity Number) entry.

```
 -INDIVI DIR-
STATION NAME
 YAESU
 ID:---------
 ENT   BACK   QUIT
```

10. Press the ▲ / ▼ keys to scroll through numbers, 0 to 9. To enter the desired number and move one space to the right press the `ENT` soft key. Repeat this procedure until all nine spaces of the MMSI number are entered.

```
 -INDIVI DIR-
STATION NAME
 YAESU
 ID:1--------
 ENT   BACK   QUIT
```

11. If a mistake was made entering in the name or the MMSI number, press the `BACK` soft key repeatedly until the wrong number is selected, then press the ▲ / ▼ keys to correct the entry.

12. To store the data entered, press and hold the `ENT` soft key.

13. To enter another individual address, repeat steps 4 through 12.

```
 -INDIVI DIR-
STATION NAME
 YAESU
 ID:123456789
 ENT   BACK   QUIT
```

14. To exit this menu and return to radio operation mode press the 16/9 key or press the `QUIT` soft key three times.

12.5.2 Setting up Individual Call Reply

Allows setting up the radio to automatically (default setting) or manually respond to a DSC individual call requesting you to switch to a working channel for voice communications. When the manual response is selected the MMSI of the calling vessel is shown allowing you to see who is calling. This function is similar to caller ID on a cellular phone.

1. Press and hold the CALL MENU key until "SETUP MENU" appears.
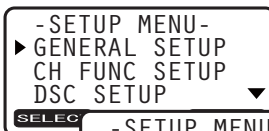
2. Press the ▲ / ▼ keys to select "DSC SETUP" menu.

3. Press the `SELECT` soft key, then select "INDIVI REPLY" with the ▲ / ▼ keys.
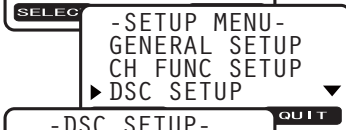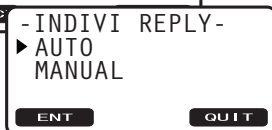
4. Press the `SELECT` soft key.

5. Press the ▲ / ▼ keys to select "AUTO" or "MANUAL."

```
 -SETUP MENU-
▶GENERAL SETUP
 CH FUNC SETUP
 DSC SETUP       ▼
 SELECT
```

```
 -SETUP MENU-
 GENERAL SETUP
 CH FUNC SETUP
▶DSC SETUP       ▼
              QUIT
```

```
 -DSC SETUP-
 INDIVI DIR
▶INDIVI REPLY
 INDIVI ACK      ▼
 SELECT
```

```
 -INDIVI REPLY-
▶AUTO
 MANUAL

 ENT         QUIT
```

6. Press the ENT soft key to store the selected setting.
7. To exit this menu and return to radio operation mode press the 16/9 key or press the QUIT soft key twice.

12.5.3 Setting up the Individual Call Acknowledge Message

The **GX1200** can select either reply message "Able" (default) or "Unable" when the individual reply setting (described previous section) is set to "AUTO".

1. Press and hold the CALL/MENU key until "SETUP MENU" appears.
2. Press the ▲ / ▼ keys to select "DSC SETUP" menu.
3. Press the SELECT soft key, then select "INDIVI ACK" with the ▲ / ▼ keys.
4. Press the SELECT soft key.
5. Turn the ▲ / ▼ keys to select "ABLE" or "UNABLE".
6. Press the ENT soft key to store the selected setting.
7. To exit this menu and return to radio operation mode press the 16/9 key or press the QUIT soft key twice.

```
-SETUP MENU-
▶ GENERAL SETUP
  CH FUNC SETUP
  DSC SETUP          ▼
SELEC
        -SETUP MENU-
         GENERAL SETUP
         CH FUNC SETUP
       ▶ DSC SETUP        ▼
                        QUIT
  -DSC SETUP-
  INDIVI DIR
  INDIVI REPLY
▶ INDIVI ACK           ▼
SELEC   -INDIVI ACK-
       ▶ ABLE
         UNABLE

          ENT        QUIT
```
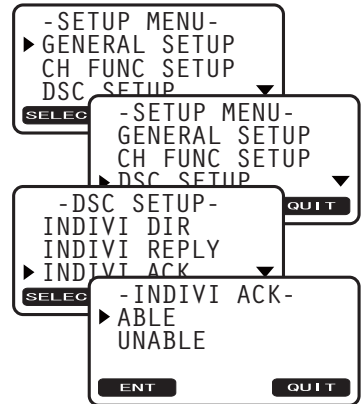
12.5.4 Transmitting an Individual Call

This feature allows you to contact another vessel, switch their radio to a requested working channel and ring like a telephone. This feature is similar to calling a vessel on CH16 and requesting to go to another channel.

Individual Call from Individual / Position Call Directory

1. Press the [CALL MENU] key. The "DSC MENU" will appear.
2. Press the [▲] / [▼] keys to select "INDIVIDUAL". (To cancel, press the [16/9] or [QUIT] soft key.)
3. Press the [SELECT] soft key. The transceiver will beep, and the "INDIVIDUAL" menu will appear. The previous four individual contacts will be listed.
4. Press the [▲] / [▼] keys to select an individual you want to contact.
   Press the [NEW ID] soft key to select an individual other than those on the display.
5. Press the [SELECT] soft key, then press the [▲] / [▼] keys to select the operating channel you want to communicate on and press the [SELECT] soft key.
6. Press the [YES] soft key to transmit the individual DSC signal.
7. After an individual call is transmitted, if the reply signal is not received, "WAIT FOR ACK" is shown on the display which means the **GX1200** is waiting for the vessel you called to send an acknowledgement.
8. To transmit the call again, press the [RESEND] soft key.
9. When the **GX1200** receives an acknowledgement from the vessel you called, the radio will automatically switch to the operating channel selected in step 5 and produce a ringing sound.
10. Key the microphone and call the other vessel you desire to communicate with.
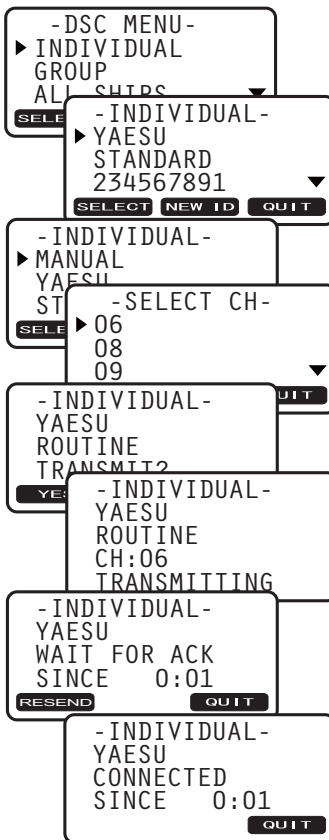
Individual Call - Manual MMSI Entry

You may enter an MMSI number manually to contact a vessel without storing the MMSI in the individual/position call directory.

1. Press the 📞 key. The "DSC MENU" will appear.

2. Press the ▲ / ▼ keys to select "INDIVID-UAL", and then press the SELECT soft key. (To cancel, press the ⟨16/9⟩ or QUIT soft key.)

3. The transceiver will beep, and the "INDIVID-UAL" menu will appear. The previous four individual contacts will be listed.
   Press the NEW ID soft key.

4. Press the ▲ / ▼ keys to select "MANUAL", then press the SELECT soft key.

5. Press the ▲ / ▼ keys to scroll through numbers, 0 to 9. To enter the desired number and move one space to the right, press the ENT soft key. Repeat this procedure until all nine spaces of the MMSI number which you want to contact are entered.

6. If a mistake was made entering in the MMSI number repeat pressing the BACK soft key until the wrong number is selected, then move the channel knob to correct the entry.

7. When finished entering the MMSI number, press and hold the ENT soft key.

8. Press the ▲ / ▼ keys to select the operating channel you want to communicate on and press the SELECT soft key.

9. Press the YES soft key again to transmit the individual DSC signal.

10. After the individual call is transmitted, if a reply signal is not received, "WAIT FOR ACK" is shown on the display which means the **GX1200** is waiting for the ship you called to send an acknowledgment.

11. To transmit the call again, press the RESEND soft key.
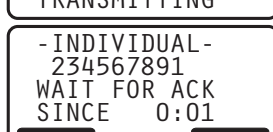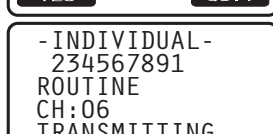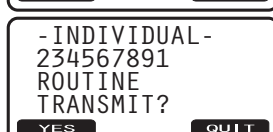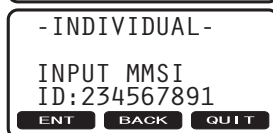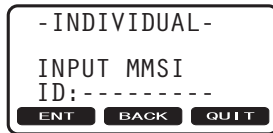
```
 -DSC MENU-
▶INDIVIDUAL
 GROUP
 ALL SHIPS      ▼
 SELECT    QUIT
```

```
-INDIVIDUAL-
▶MANUAL
 YAESU
 STANDARD       ▼
 SELECT    QUIT
```

```
-INDIVIDUAL-

INPUT MMSI
ID:---------
 ENT  BACK  QUIT
```

```
-INDIVIDUAL-

INPUT MMSI
ID:234567891
 ENT  BACK  QUIT
```

```
 -SELECT CH-
▶06
 08
 09            ▼
 SELECT    QUIT
```

```
-INDIVIDUAL-
234567891
ROUTINE
TRANSMIT?
 YES       QUIT
```

```
-INDIVIDUAL-
 234567891
ROUTINE
CH:06
TRANSMITTING
```

```
-INDIVIDUAL-
 234567891
WAIT FOR ACK
SINCE   0:01
RESEND     QUIT
```

12. When the **GX1200** receives an acknowledge-
    ment from the vessel you called, the radio will
    automatically switch to the operating channel
    selected in step 5 and produce a ringing
    sound.

```
-INDIVIDUAL-
 234567891
CONNECTED
SINCE    0:01
             QUIT
```

13. Key the microphone and call the other vessel
    you desire to communicate with.

```
BUSY HI USA        ◄►
                06
33° 37.1 N
118° 09.5 W
10:00 UTC
```
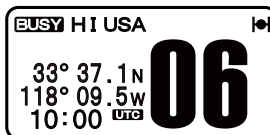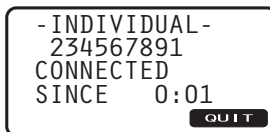
12.5.5 Receiving an Individual Call

When receiving an individual call, an acknowledgment must be sent back
to the calling station. The **GX1200** in the default setting will automatically
respond to the calling station and switch to the requested channel for voice
communications. Refer to the section "**12.5.2 Setting up Individual Reply**"
if you want to change the setting to see who is calling before replying to the
call.

Automatic reply:

1. When an individual call is received, a ringing alarm sounds.
    The **GX1200** automatically switches to the requested channel. The
    display shows the MMSI or the name of the vessel transmitting the
    individual call.
2. Press any key to stop the alarm.
3. Press the QUIT soft key to return to radio
    operation.

```
-INDIVIDUAL-
234567891
CONNECTED
SINCE    0:01
RESEND        QUIT
```

4. Monitor the channel to make sure it is clear,
    then press the **PTT** on the microphone and
    talk to the calling vessel.
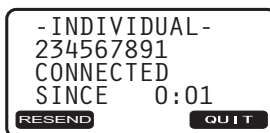
Manual reply:

1. When an individual call is received, a ringing
    alarm sounds.
    The display shows the MMSI or the name of
    the vessel transmitting the individual call.

```
RX INDIV
234567891
NOT REPLIED
SINCE    0:01    ▼
ACCEPT  PAUSE  QUIT
```

2. Press any key to stop the alarm.
3. Press the ACCEPT soft key to accept the call.
4. Press the PAUSE soft key to suspend the
    acknowledgement.
    Press the RESUME soft key to resume the
    acknowledgement.

```
BUSY HI USA        ◄►
INDIV           06
PAUSING!
            RESUME  QUIT
```
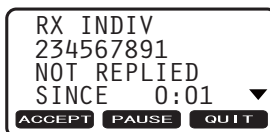
5. Press the `ABLE` soft key to switch to the requested channel. (To inform that you cannot respond, press the `UNABLE` soft key.)

```
RX INDIV
234567891
NOT REPLIED
SINCE   0:01    ▼
 ABLE   UNABLE   QUIT
```
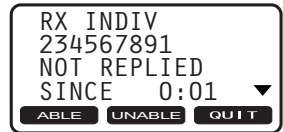
6. Press the `YES` soft key to send an acknowledgement.
   Press the `CHG CH` soft key to change the channel for communication from the requested one.
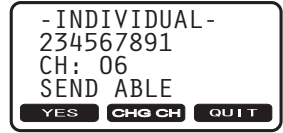
```
-INDIVIDUAL-
234567891
CH: 06
SEND ABLE
 YES   CHG CH   QUIT
```

7. Monitor the channel to make sure it is clear, then press the **PTT** on the microphone and talk to the calling vessel.

```
-INDIVIDUAL-
234567891
CONNECTED
SINCE   0:01
 RESEND          QUIT
```
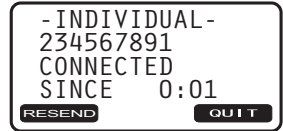
8. Press the `QUIT` soft key to return to the working channel.
9. Press the `16/9` key to return to radio operation.

12.5.6 Setting up the Individual Call Ringer

When an individual call is received the radio will produce a ringing tone for 3 minutes (by default). This selection allows the individual call ringer time to be changed.

1. Press and hold the `CALL MENU` key until "SETUP MENU" appears.
2. Press the `▲` / `▼` keys to select "DSC SETUP" menu.
3. Press the `SELECT` soft key, then select "INDIVI RING" with the `▲` / `▼` keys.
4. Press the `SELECT` soft key.
5. Press the `▲` / `▼` keys to select ringing time of an individual call.
6. Press the `ENT` soft key to store the selected setting.
7. To exit this menu and return to radio operation mode press the `16/9` key or press the `QUIT` soft key twice.

```
-SETUP MENU-
▶GENERAL SETUP
 CH FUNC SETUP
 DSC SETUP       ▼
 SELEC
```
```
   -SETUP MENU-
   GENERAL SETUP
   CH FUNC SETUP
 ▶DSC SETUP       ▼
             QUIT
```
```
-DSC SETUP-
 INDIVI REPLY    ▲
 INDIVI ACK
▶INDIVI RING     ▼
 SELEC
```
```
   -INDIVI RING-
 ▶DEFAULT(2MIN)
   15 SEC
   10 SEC        ▼
   ENT         QUIT
```
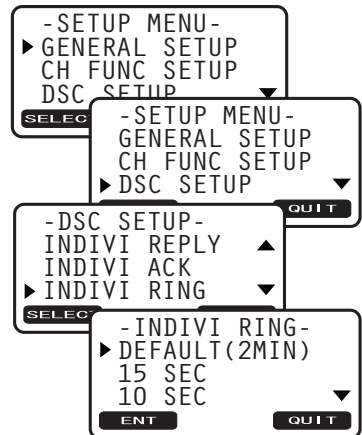
The **GX1200** has the capability to turn off the individual call ringer.

1. Press and hold the 🔲 key until "SETUP MENU" appears.
2. Press the 🔲 / 🔲 keys to select "DSC SETUP" menu.
3. Press the SELECT soft key, then select "DSC BEEP" with the 🔲 / 🔲 keys.
4. Press the SELECT soft key.
5. Press the 🔲 / 🔲 keys to select "INDIVIDUAL" then press the ENT soft key.
6. Press the 🔲 / 🔲 keys to select "OFF."
7. Press the ENT soft key to store the selected setting.
8. To exit this menu and return to radio operation mode press the 🔲 key or press the QUIT soft key twice.

```
-SETUP MENU-
▶GENERAL SETUP
 CH FUNC SETUP
 DSC SETUP         ▼
SELECT
```

```
-SETUP MENU-
 GENERAL SETUP
 CH FUNC SETUP
▶DSC SETUP         ▼
            QUIT
```

```
-DSC SETUP-
 GROUP DIR        ▲
 POS REPLY
▶DSC BEEP          ▼
SELECT      QUIT
```

```
-DSC BEEP-
SELECT CALL
INDIVIDUAL
BEEP:ON
 ENT        QUIT
```

```
-DSC BEEP-
SELECT CALL
INDIVIDUAL
BEEP:OFF
 ENT        QUIT
```
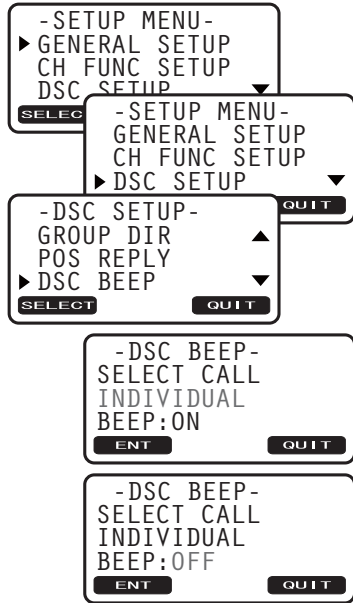
If you wish to return to enabling the ringer tone, just repeat the above procedure, pressing the 🔲 / 🔲 keys to select "ON" in step 6 above.

12.6 GROUP CALL

This feature allows the user to contact a group of specific vessels (example members of a yacht club) with a group MMSI number using the group call function to automatically switch to a desired channel for voice communications. This function is very useful for yacht clubs and vessels traveling together that want to collectively make announcements on a predetermined channel. The **GX1200** can store up to 20 group call entries.

12.6.1 Setting up a Group Call

For this function to operate the same group MMSI must be programmed into all the DSC VHF radios within the group of vessels that will be using this feature. To understand about group MMSI programming, first a Ship MMSI has to be understood.

Ship MMSI: The first three digits called a MID (Mobile Identity Group) of a ship MMSI denote the country the ship registered for a MMSI. The last 6 digits are specific to the ships ID. *Ship MMSI Example*: If your MMSI is "366123456", "366" is MID which denote the country and "123456" is the ships ID for you.

Group MMSI:

❐ Group MMSI numbers are not assigned by the FCC or other organizations licensed to assign ship MMSI numbers.

❐ The first digit of a group MMSI is always set to "0" by the international rules. All Standard Horizon radios are preset so when programming a group MMSI the first digit is set to "0".

❐ The USCG recommends programming the MID of a ships MMSI into the second, third and fourth digits of the group MMSI as it denotes the area the ship is located in.

❐ The last 5 digits are decided upon by persons in the group. This is an important step as all radios in the group must contain the same group MMSI so they can be contacted by each other. There is a chance that another group of vessels may program in the same group MMSI. If this happens, simply change one or more of the last 5 digits of the group MMSI.

1. Press and hold the 🔘 key until "SETUP MENU" appears.
2. Press the 🔼 / 🔽 keys to select "DSC SETUP" menu.
3. Press the SELECT soft key, then select "GROUP DIR" with the 🔼 / 🔽 keys.
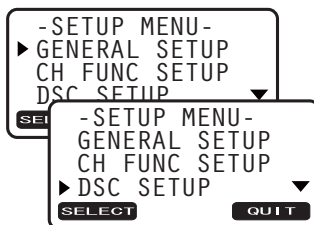
```
  -SETUP MENU-
▶ GENERAL SETUP
  CH FUNC SETUP
  DSC SETUP         ▼
SE
```

```
  -SETUP MENU-
  GENERAL SETUP
  CH FUNC SETUP
▶ DSC SETUP         ▼
SELECT        QUIT
```

4. Press the SELECT soft key, then select "ADD" with the ▲ / ▼ keys.
5. Press the SELECT soft key.
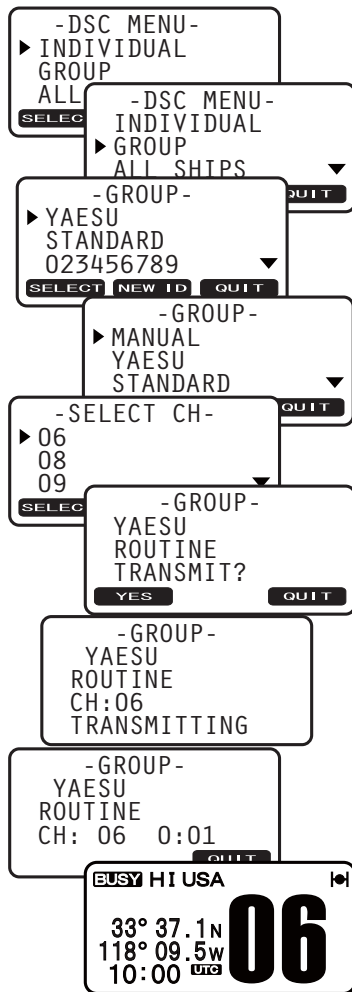6. Press the ▲ / ▼ keys to scroll through the first letter of the group name you want to reference in the directory.
7. Press the ENT soft key to store the first letter in the name and step to the next letter to the right.
8. Repeat step 6 and 7 until the name is complete. The name can consist of up to eleven characters, if you do not use all eleven characters press the ENT soft key to move to the next space. This method can also be used to enter a blank space in the name. To clear the previous letter, press the BACK soft key.
9. After the eleventh letter or space has been entered, press and hold the ENT soft key to advance to the MMSI number (Maritime Mobile Service Identity Number) entry.
10. Press the ▲ / ▼ keys to scroll through numbers, 0 to 9. To enter the desired number and move one space to the right press the ENT soft key. Repeat this procedure until all nine space of the MMSI number are entered.
11. If a mistake was made entering in the name or the MMSI number repeat pressing the BACK soft key until the wrong character is selected, then press the ▲ / ▼ key to enter the correct letter or number.
12. To store the data entered, press and hold the ENT soft key.
13. To enter another individual address, repeat steps 4 through 12.
14. To exit this menu and return to radio operation mode press the [16/9] key or press the QUIT soft key three times.

```
-DSC SETUP-
 INDIVI ACK      ▲
 INDIVI RING
▶GROUP DIR       ▼
SELECT      QUIT
```

```
 -GROUP DIR-
▶ADD
 EDIT
 DELETE
SELECT      QUIT
```

```
 -GROUP DIR-
GROUP NAME
 S
 ID:0--------
ENT   BACK   QUIT
```

```
 -GROUP DIR-
GROUP NAME
 STANDARD
 ID:0--------
ENT   BACK   QUIT
```

```
 -GROUP DIR-
GROUP NAME
 STANDARD
 ID:012345678
ENT   BACK   QUIT
```

12.6.2 Transmitting a Group Call

Group Call from Group Call Directory
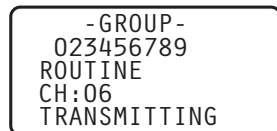
1. Press the 🔲 key. The "DSC MENU" will appear.
2. Press the ▲ / ▼ keys to select "GROUP". (To cancel, press the 16/9 key or QUIT soft key.)
3. Press the SELECT soft key. The transceiver will beep, and the "GROUP" menu will appear. The previous four group contacts will be listed.
4. Press the ▲ / ▼ keys to select a group you want to contact.
   Press the NEW ID soft key to select a group other than those on the display.
5. Press the SELECT soft key, then press the ▲ / ▼ keys to select the operating channel you want to communicate on and press the SELECT soft key.
6. Press the YES soft key to transmit the group call signal.
7. After the group call is transmitted, all the radios in the group will switch to the channel which is selected on step 5 above.
8. Press the QUIT soft key to return to radio operation mode.
9. Listen to the channel to make sure it is not busy, then key the microphone and call the other vessels you desire to communicate with.

```
 -DSC MENU-
▶INDIVIDUAL
 GROUP
 ALL
SELEC
```

```
  -DSC MENU-
 INDIVIDUAL
▶GROUP
 ALL SHIPS          ▼
              QUIT
```

```
    -GROUP-
▶YAESU
 STANDARD
 023456789          ▼
SELECT NEW ID QUIT
```

```
    -GROUP-
▶MANUAL
 YAESU
 STANDARD           ▼
              QUIT
```

```
 -SELECT CH-
▶06
 08
 09                 ▼
SELEC
```

```
    -GROUP-
 YAESU
 ROUTINE
 TRANSMIT?
 YES          QUIT
```

```
  -GROUP-
 YAESU
 ROUTINE
 CH:06
 TRANSMITTING
```

```
  -GROUP-
 YAESU
 ROUTINE
 CH: 06  0:01
              QUIT
```

```
BUSY HI USA        |◄|
  33° 37.1N        06
 118° 09.5W
  10:00 UTC
```

Group Call - Manual Group MMSI Entry

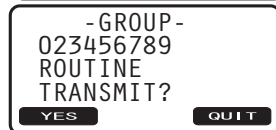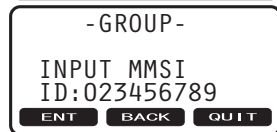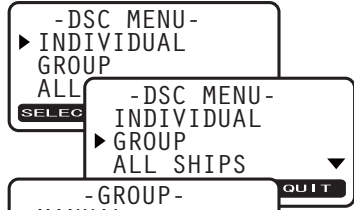You may enter an MMSI number manually to contact a vessel without storing the MMSI in the Group Call Directory.

1. Press the 📞 key. The "DSC MENU" will appear.

2. Press the ▲ / ▼ keys to select "GROUP". (To cancel, press the 16/9 key or QUIT soft key.)

3. Press the SELECT soft key. The transceiver will beep, and the "GROUP" menu will appear. The previous four group contacts will be listed.
   Press the NEW ID soft key.

4. Press the ▲ / ▼ keys to select "MANUAL", then press the SELECT soft key.

5. Press the ▲ / ▼ keys to scroll through numbers, 0 to 9. To enter the desired number and move one space to the right press the ENT soft key. Repeat this procedure until all nine space of the MMSI number which you want to contact are entered.

6. If a mistake was made entering in the MMSI number, repeat pressing the BACK soft key until the wrong number is selected, then press the ▲ / ▼ keys to correct the entry.

7. When finish the entering the MMSI number, press and hold the ENT soft key.

8. Press the ENT soft key, then press the ▲ / ▼ keys to select the operating channel you want to communicate on and press the SELECT soft key.

9. Press the YES soft key to transmit the group call signal.

10. After the group call is transmitted, all the radios in the group will switch to the channel which is selected on step 5 above.

```
-DSC MENU-
▶ INDIVIDUAL
  GROUP
  ALL
 SELECT
```

```
-DSC MENU-
  INDIVIDUAL
▶ GROUP
  ALL SHIPS          ▼
              QUIT
```

```
-GROUP-
▶ MANUAL
  YAESU
  STANDARD           ▼
 SELECT        QUIT
```

```
-GROUP-

INPUT MMSI
ID:0--------
 ENT   BACK   QUIT
```

```
-GROUP-

INPUT MMSI
ID:023456789
 ENT   BACK   QUIT
```

```
-SELECT CH-
▶ 06
  08
  09                 ▼
 SELECT        QUIT
```

```
-GROUP-
023456789
ROUTINE
TRANSMIT?
 YES           QUIT
```

```
-GROUP-
 023456789
ROUTINE
CH:06
TRANSMITTING
```

11. Press the `QUIT` soft key to return to radio operation mode.
12. Listen to the channel to make sure it is not busy, then key the microphone and call the other vessels you desire to communicate with.

```
  -GROUP-
 023456789
ROUTINE
CH: 06  0:01
            QUIT
```
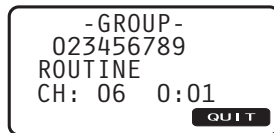
12.6.3 Receiving a Group Call

1. When a group call is received, the **GX1200** will produce a ringing alarm sound. (DSC BEEP needs to be enabled to hear alarm.)
   The display will show the MMSI (or name) of the vessel transmitting the group call.

```
RX GROUP
023456789
SINCE   0:01
ROUTINE        ▼
ACCEPT PAUSE  QUIT
```

2. Press any key to stop the alarm.
3. To show the nature of the call of the vessel, press the ▼ key.
4. If a key is not pressed for thirty seconds after a group call is received, the **GX1200** will automatically switch to the requested channel for you to monitor communications.
5. To immediately switch to requested channel, press the `ACCEPT` soft key.
6. Press the `PAUSE` soft key to suspend the acknowledgement.
   Press the `RESUME` soft key to resume the acknowledgement.

```
BUSY HI USA        ►
GROUP
PAUSING!     06
         RESUME QUIT
```

7. If you want the radio to stay on the channel you were on before receiving the group call, press the `QUIT` soft key.

```
RX GROUP
023456789
SINCE   0:01
ROUTINE        ▼
            QUIT
```

8. Press the `QUIT` soft key to display the operating channel number of the requested channel.
9. Monitor the channel for the person calling the group for a message.
10. If you want to respond, monitor the channel to make sure it is clear, then press the **PTT** on the microphone and talk to the calling ship(s).
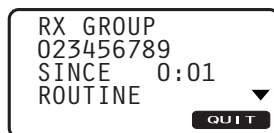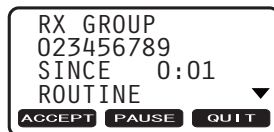
NOTE

❏ When there is an unread group call, the "☲" icon will appear on the display. You may review the unread group call from the DSC log, refer to section **"12.12.3 Reviewing a Logged Other Calls**."
❏ After a group call is received, the time the call was made and the ships MMSI or vessels name will appear on the LCD.

12.6.4 Setting up the Group Call Ringer

The **GX1200** has the capability to turn off the group call ringer.

1. Press and hold the 📞 key until "SETUP MENU" appears.

2. Press the ▲ / ▼ keys to select "DSC SETUP" menu.

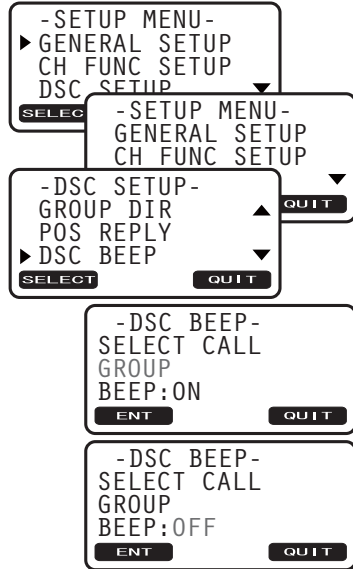3. Press the SELECT soft key, then select "DSC BEEP" with the ▲ / ▼ keys.

4. Press the SELECT soft key.

5. Press the ▲ / ▼ keys to select "GROUP" then press the ENT soft key.

6. Press the ▲ / ▼ keys to select "OFF".

7. Press the ENT soft key to store the selected setting.

8. To exit this menu and return to radio operation mode press the 16/9 key or press the QUIT soft key twice.

9. If you wish to return to enabling the ringer tone, just repeat the above procedure, pressing the ▲ / ▼ keys to select "ON" in step 6 above.

```
      -SETUP MENU-
    ▶GENERAL SETUP
     CH FUNC SETUP
     DSC SETUP          ▼
    SELECT
```

```
          -SETUP MENU-
         GENERAL SETUP
         CH FUNC SETUP
                        ▼
                          QUIT
```

```
      -DSC SETUP-
     GROUP DIR         ▲
     POS REPLY
    ▶DSC BEEP           ▼
    SELECT        QUIT
```

```
      -DSC BEEP-
     SELECT CALL
     GROUP
     BEEP:ON
     ENT          QUIT
```

```
      -DSC BEEP-
     SELECT CALL
     GROUP
     BEEP:OFF
     ENT          QUIT
```

12.7 POSITION REQUEST

Advancements in DSC have made it possible to poll the location of another vessel and show the position of that vessel on the display of the **GX1200**. Standard Horizon has taken this feature one step further, if any Standard Horizon GPS is connected to the **GX1200**, the polled position of the vessel is shown on the display of the GPS chart plotter making it easy to navigate to the location of the polled vessel. This is a great feature for anyone wanting to know the position of another vessel. For example your friend that is catching fish, or finding the location of a person you are cruising with.

NOTE

The other vessel must have an operating GPS receiver connected to its DSC transceiver and must not have its transceiver set to deny position requests. (Refer the section "**12.5.1 Setting up the Individual / Position Call Directory**" to enter information into the individual directory).

12.7.1 Setting up the Position Reply

The **GX1200** can be set up to automatically or manually send your position to another vessel. This selection is important if you are concerned about someone polling the position of your vessel that you may not want to. In the manual mode you will see the MMSI or persons name shown on the display allowing you to choose to send your position to the requesting vessel.

1. Press and hold the 🔲 key until "SETUP MENU" appear.
2. Press the ⬆ / ⬇ keys to select "DSC SETUP" menu.
3. Press the SELECT soft key, then select "POS REPLY" with the ⬆ / ⬇ keys.
4. Press the SELECT soft key.
5. Press the ⬆ / ⬇ keys to select "AUTO" or "MANUAL". In "AUTO" mode, after a DSC position request is received, the radio will automatically transmit your vessels position. In "MANUAL" mode, the display of the **GX1200** will show who is requesting the position.
6. Press the ENT soft key to store the selected setting.
7. To exit this menu and return to radio operation mode press the 🔲 key or press the QUIT soft key twice.
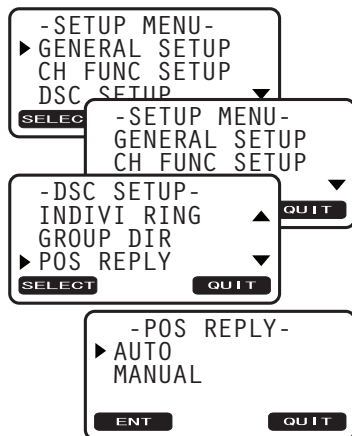
12.7.2 Transmitting a Position Request to Another Vessel

Position Request from Individual / Position Call Directory

1. Press the 📞 key. The "DSC MENU" will appear in the display.
2. Press the 🔼 / 🔽 keys to select "POS REQUEST".
3. Press the SELECT soft key to show the position request directory. The previous four position request contacts will be listed.
4. Press the 🔼 / 🔽 keys to select a name, then press the SELECT soft key. Press the NEW ID soft key to select a name other than those on the display. This directory uses the individual directory information.
5. Press the 🔼 / 🔽 keys to select the category ("ROUTINE" or "SAFETY") for the position request call, then press the SELECT soft key.

```
      -DSC MENU-
  ▶ INDIVIDUAL
    GROUP
    ALL        -DSC MENU-
  SELEC     GROUP            ▲
            ALL SHIPS
          ▶ POS REQUEST      ▼
          SELE          QUIT
      -POS REQUEST-
  ▶ YAESU
    STANDARD
    234567891          ▼
  SELECT  NEW ID  QUIT
            -POS REQUEST-
          ▶ MANUAL
            YAESU
            STANDARD       ▼
          SELECT        QUIT

      -CATEGORY-
  ▶ ROUTINE
    SAFETY

  SELECT        QUIT
```
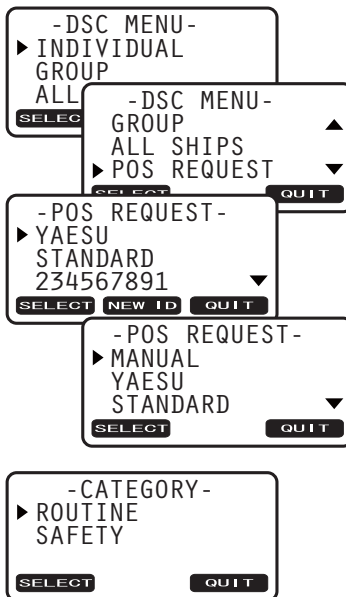
NOTE

"SAFETY" is normally used as the category for position request calls. However, "ROUTINE" should be selected when calling a vessel with radios of certain legacy models that cannot accept position request calls categorized as "SAFETY".

6. Press the `YES` soft key to transmit the position request DSC call.
7. When the **GX1200** receives the position from the polled vessel, the **GX1200** will produce a ringing alarm sound and the position from the polled vessel is sent to a GPS chart plotter via NMEA 0183. (DSC BEEP needs to be enabled to hear alarm.)
8. Press any key to stop the alarm.
9. Press the ▼ key to show the position from the polled vessel transferred on the display.
10. Press the `QUIT` soft key to show the position data again as the "`OTHER LOG`" menu. Press the `QUIT` soft key again to return to radio operation mode.
11. If the **GX1200** does not receive a reply, the display will be as shown in the illustration on the right. To send again, press the `RESEND` soft key.

```
-POS REQUEST-
YAESU

TRANSMIT?
 YES
```

```
RX POS REPLY
YAESU
ACKNOWLEDGED
SINCE   0:01     ▼
              QUIT
```

```
RX POS REPLY
-POS INFO-       ▲
 33°35.41N
118°07.45W       ▼
              QUIT
```

```
-OTHER LOG-
POS REPLY
YAESU
  ACKNOWLEDGE   ▼
              QUIT
```

```
-POS REQUEST-
 YAESU
WAIT FOR ACK
SINCE    0:01
RESEND        QUIT
```

12. To exit this menu and return to radio operation mode press the `16/9` key or the `QUIT` soft key.

NOTE

If the **GX1200** does not receive position data from the polled vessel, the LCD will show "NO POSITION DATA."

Position Request - Manual MMSI Entry

You may enter an MMSI number manually to contact a vessel without storing the MMSI in the individual/position call directory.
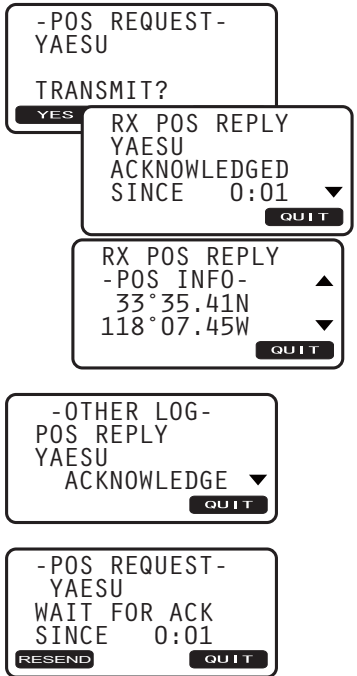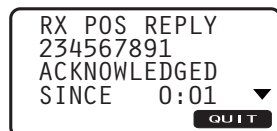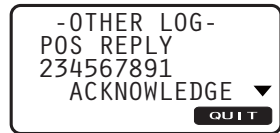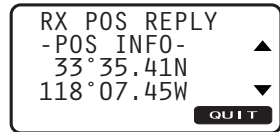
1. Press the 📞 key. The "D S C   M E N U" will appear in the display.

2. Press the 🔺 / 🔻 keys to select "P O S REQUEST".

3. Press SELECT soft key to show the position request directory. The previous four position request contacts will be listed.
   Press the NEW ID soft key.

4. Press the 🔺 / 🔻 keys to select the "MANUAL", then press the SELECT soft key.

5. Press the 🔺 / 🔻 keys to scroll through numbers, 0 to 9. To enter the desired number and move one space to the right press the ENT soft key. Repeat this procedure until all nine space of the MMSI number which you want to contact are entered.

6. If a mistake was made entering in the MMSI number repeat pressing the BACK soft key until the wrong number is selected, then press the 🔺 / 🔻 keys to correct the entry.

7. When finished entering the MMSI number, press and hold the ENT soft key.

8. Press the 🔺 / 🔻 keys to select the category ("R O U T I N E" or "S A F E T Y") for the position request call, then press the SELECT soft key.

9. Press the YES soft key to transmit the position request DSC call.

10. When the **GX1200** receives the position from the polled vessel, the **GX1200** will produce a ringing alarm sound and the position from the polled vessel is sent to a GPS chart plotter via NMEA 0183. (DSC BEEP needs to be enabled to hear alarm.)

```
    -DSC MENU-
▶ INDIVIDUAL
  GROUP
  ALL SHIPS      ▼
 SELECT      QUIT
```

```
    -DSC MENU-
  GROUP          ▲
  ALL SHIPS
▶ POS REQUEST    ▼
 SELECT      QUIT
```

```
  -POS REQUEST-
▶ MANUAL
  YAESU
  STANDARD       ▼
 SELECT      QUIT
```

```
  -POS REQUEST-

  INPUT MMSI
  ID:---------
 ENT  BACK  QUIT
```

```
  -POS REQUEST-

  INPUT MMSI
  ID:234567891
 ENT  BACK  QUIT
```

```
   -CATEGORY-
▶ ROUTINE
  SAFETY

 SELECT      QUIT
```

```
  -POS REQUEST-
  234567891

  TRANSMIT?
 YES        QUIT
```

```
  RX POS REPLY
  234567891
  ACKNOWLEDGED
  SINCE   0:01  ▼
            QUIT
```

11. Press any key to stop the alarm.

12. Press the ▼ key to show the position from the polled vessel transferred on the display.

13. Press the `QUIT` soft key to show the position data again as the "OTHER LOG" menu. Press the `QUIT` soft key again to return to radio operation mode.

14. If the **GX1200** does not receive a reply, the display will be as shown in the illustration on the right. To send again, press the `RESEND` soft key.

15. To exit this menu and return to radio operation mode press the 16/9 key or the `QUIT` soft key.

```
RX POS REPLY
-POS INFO-      ▲
 33°35.41N
118°07.45W      ▼
           QUIT
```

```
 -OTHER LOG-
POS REPLY
234567891
  ACKNOWLEDGE  ▼
           QUIT
```

```
-POS REQUEST-
 234567891
WAIT FOR ACK
SINCE   0:01
RESEND     QUIT
```
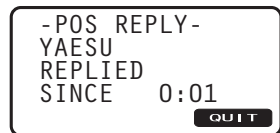
12.7.3 Receiving a Position Request

When a position request call is received from another vessel, a ringing alarm will sound and "POS REQUEST" will be shown in the LCD. Operation and transceiver function differs depending on "POS REPLY" in the "DSC SETUP" menu setting.
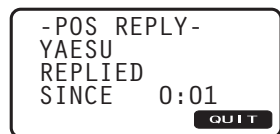
Automatic reply:

1. When a position request call is received, the **GX1200** will transmit your position to the vessel who requested it.

2. To exit from position request display, press the `QUIT` soft key.

```
-POS REPLY-
YAESU
REPLIED
SINCE   0:01
           QUIT
```
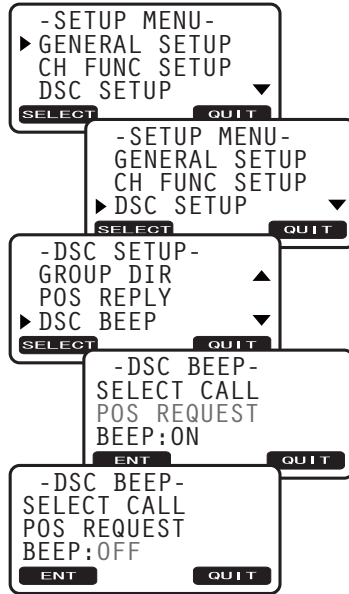
Manual reply:

1. When a position request call is received from another vessel, the **GX1200** will produce a ringing alarm sound and the LCD will show the MMSI (or name) of the requesting vessel.

2. Press any key to stop the alarm.

3. Press the `REPLY` soft key to send your position to the requesting vessel.

4. Press the `QUIT` soft key to show the position data again as the "OTHER LOG" menu.

5. To exit from position request display, press the 16/9 key or the `QUIT` soft key.

```
RX POS REQ
YAESU

SINCE   0:01
REPLY      QUIT
```

```
-POS REPLY-
YAESU
REPLIED
SINCE   0:01
           QUIT
```

12.7.4 Setting up the Position Request Ringer

The **GX1200** has the capability to turn off the position request ringer.

1. Press and hold the 🔲 key until "SETUP MENU" appears.
2. Press the 🔼 / 🔽 keys to select "DSC SETUP" menu.
3. Press the SELECT soft key, then select "DSC BEEP" with the 🔼 / 🔽 keys.
4. Press the SELECT soft key.
5. Press the 🔼 / 🔽 keys to select "POS REQUEST".
6. Press the SELECT soft key.
7. Press the 🔼 / 🔽 keys to select "OFF".
8. Press the ENT soft key to store the selected setting.
9. To exit this menu and return to radio operation mode press the 16/9 key or press the QUIT soft key twice.
10. If you wish to return to enabling the ringer tone, just repeat the above procedure, pressing the 🔼 / 🔽 keys to select "ON" in step 7 above.

```
-SETUP MENU-
▶ GENERAL SETUP
  CH FUNC SETUP
  DSC SETUP        ▼
SELECT       QUIT
```

```
-SETUP MENU-
  GENERAL SETUP
  CH FUNC SETUP
▶ DSC SETUP        ▼
          QUIT
```

```
-DSC SETUP-
  GROUP DIR       ▲
  POS REPLY
▶ DSC BEEP        ▼
SELECT       QUIT
```

```
-DSC BEEP-
  SELECT CALL
  POS REQUEST
  BEEP:ON
  ENT        QUIT
```

```
-DSC BEEP-
  SELECT CALL
  POS REQUEST
  BEEP:OFF
  ENT        QUIT
```
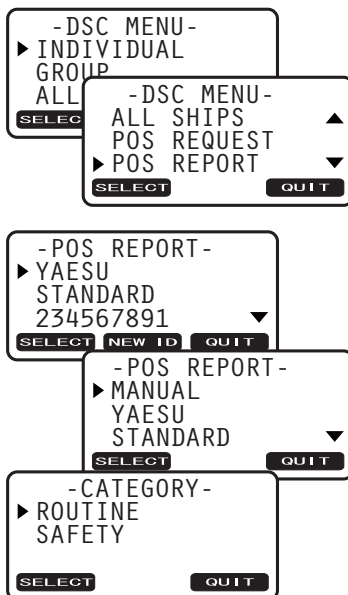
12.8 POSITION REPORT

The feature is similar to the position request, however instead of requesting a position of another vessel this function allows you to send your position to another vessel. In order to send your position you need to have a GPS receiver connected or to have manually input your position. See section "**12.11 MANUAL INPUTTING OF THE GPS LOCATION**."

12.8.1 Transmitting a DSC Position Report Call

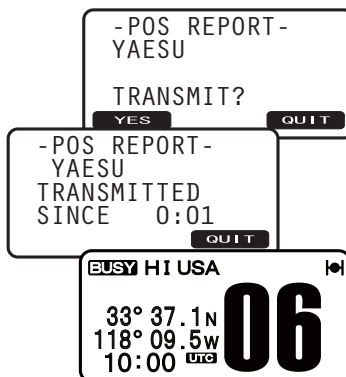*Position Report from Individual / Position Call Directory*

1. Press the 📞 key. The "DSC MENU" will appear in the display.
2. Press the 🔼 / 🔽 keys to select the "POS REPORT".
3. Press the SELECT soft key to show the position report directory. The previous four position report contacts will be listed.
4. Press the 🔼 / 🔽 keys to select a name you want to send your position to, then press the SELECT soft key.
   Press the NEW ID soft key to select a name other than those on the display. This directory uses the individual/position call directory information.
5. Press the 🔼 / 🔽 keys to select the category ("ROUTINE" or "SAFETY") for the position report call, then press the SELECT soft key.

```
      -DSC MENU-
  ▶ INDIVIDUAL
    GROUP
    ALL      -DSC MENU-
 SELEC   ALL SHIPS      ▲
         POS REQUEST
       ▶ POS REPORT     ▼
         SELECT      QUIT
```

```
    -POS REPORT-
  ▶ YAESU
    STANDARD
    234567891       ▼
  SELECT  NEW ID  QUIT
        -POS REPORT-
      ▶ MANUAL
        YAESU
        STANDARD    ▼
        SELECT    QUIT
```

```
    -CATEGORY-
  ▶ ROUTINE
    SAFETY
  SELECT       QUIT
```

NOTE

"SAFETY" is normally used as the category for position report calls. However, "ROUTINE" should be selected when calling a vessel with radios of certain legacy models that cannot accept position report calls categorized as "SAFETY".
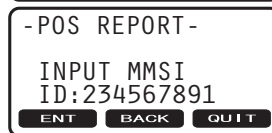
6. Press the `YES` soft key to send your position to the selected vessel.
7. Press the `QUIT` soft key to return the display to the radio operation mode display.

```
      -POS REPORT-
       YAESU

       TRANSMIT?
       YES        QUIT
```

```
   -POS REPORT-
    YAESU
    TRANSMITTED
    SINCE   0:01
                QUIT
```

```
 BUSY HI USA          |◄|

    33° 37.1N    06
   118° 09.5w
    10:00 UTC
```
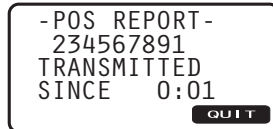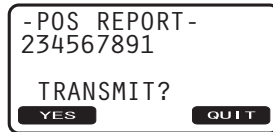
Position Report - Manual MMSI Entry
You may enter an MMSI number manually to contact a vessel without storing the MMSI in the individual/position call directory.

1. Press the 📞 key. The "D S C   M E N U" will appear in the display.
2. Press the ▲ / ▼ keys to select the "P O S REPORT".
3. Press `SELECT` soft key to show the position report directory. The previous four position report contacts will be listed.
   Press the `NEW ID` soft key.
4. Press the ▲ / ▼ keys to select "MANUAL", then press the `SELECT` soft key.
5. Enter the MMSI number (nine digits) which you want to contact.
   Press the ▲ / ▼ keys to scroll through numbers, 0 to 9. To enter the desired number and move one space to the right, press the `ENT` soft key. Repeat this procedure until all nine spaces of the MMSI number which you want to contact are entered.
6. If a mistake was made entering in the MMSI number repeat pressing the `BACK` soft key until the wrong number is selected, then move the channel knob to correct the entry.
7. When finished entering the MMSI number, press and hold the `ENT` soft key.

```
    -DSC MENU-
    ALL SHIPS        ▲
    POS REQUEST
  ▶ POS REPORT        ▼
  SELECT         QUIT
```

```
   -POS REPORT-
  ▶ MANUAL
    YAESU
    STANDARD          ▼
  SELECT         QUIT
```

```
  -POS REPORT-

   INPUT MMSI
   ID:---------
   ENT  BACK  QUIT
```

```
  -POS REPORT-

   INPUT MMSI
   ID:234567891
   ENT  BACK  QUIT
```

8. Press the ▲ / ▼ keys to select the category ("ROUTINE" or "SAFETY") for the position report call, then press the SELECT soft key.
9. Press the YES soft key to send your position to the selected vessel.
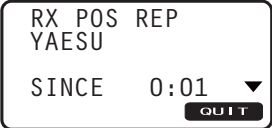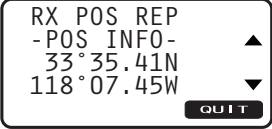10. Press the QUIT soft key to return the display to the radio operation mode display.

```
   -CATEGORY-
▶ ROUTINE
   SAFETY
SELECT        QUIT
```

```
-POS REPORT-
234567891

   TRANSMIT?
   YES        QUIT
```

```
-POS REPORT-
 234567891
TRANSMITTED
SINCE   0:01
            QUIT
```

NOTE

"SAFETY" is normally used as the category for position report calls. However, "ROUTINE" should be selected when calling a vessel with radios of certain legacy models that cannot accept position report calls categorized as "SAFETY".

12.8.2 Receiving a DSC Position Report Call

When another vessel transmits their location to the **GX1200** the following will happen:

1. When the position report call is received, a ringing sound will be produced and the display shows the vessels MMSI or name, how long since the call was received and the GPS position of the vessel. The **GX1200** will also output NMEA sentences (DSC and DSE) to a connected GPS chart plotter.

```
RX POS REP
YAESU

SINCE    0:01   ▼
             QUIT
```

```
RX POS REP
-POS INFO-       ▲
 33°35.41N
118°07.45W       ▼
             QUIT
```

2. Press any of the keys on the radio to stop the alarm. (DSC BEEP needs to be enabled to hear alarm.)
3. Press the ▲ / ▼ keys to change the display to view the received data.
4. Press the QUIT soft key to return the display to the radio operation mode display.

12.8.3 Setting up a Position Report Ringer

The **GX1200** has the capability to turn off the position report ringer.

1. Press and hold the CALL/MENU key until "SETUP MENU" appears.
2. Press the ▲ / ▼ keys to select "DSC SETUP" menu.
3. Press the SELECT soft key, then select "DSC BEEP" with the ▲ / ▼ keys.
4. Press the SELECT soft key.
5. Press the ▲ / ▼ keys to select "POSITION REPORT".
6. Press the ENT soft key.
7. Press the ▲ / ▼ keys to select "OFF".
8. Press the ENT soft key to store the selected setting.
9. To exit this menu and return to radio operation mode press the 16/9 key or press the QUIT soft key twice.

```
 -SETUP MENU-
▶GENERAL SETUP
 CH FUNC SETUP
 DSC SETUP       ▼
SELECT
```

```
 -SETUP MENU-
 GENERAL SETUP
 CH FUNC SETUP
                 ▼
             QUIT
```

```
 -DSC SETUP-
 GROUP DIR
 POS REPLY       ▲
▶DSC BEEP        ▼
SELECT       QUIT
```

```
 -DSC BEEP-
 SELECT CALL
 POS REPORT
 BEEP:ON
 ENT         QUIT
```

```
 -DSC BEEP-
 SELECT CALL
 POS REPORT
 BEEP:OFF
 ENT         QUIT
```

To enable the position report ringer, repeat the above procedure, pressing the ▲ / ▼ keys to select "ON" in step 7 above.

12.9 POLLING CALL

The **GX1200** has the capability DSC polling.

12.9.1 Transmitting a Polling Call

Position Polling from Individual / Position Call Directory

1. Press the [CALL MENU] key. The "DSC MENU" will appear in the display.
2. Press the [▲] / [▼] keys to select the "POLLING".
3. Press the SELECT soft key to show the polling directory.
4. Press the [▲] / [▼] keys to select an individual you want to contact on, then press the SELECT soft key.
5. Press the YES soft key to transmit a polling call to the selected vessel.
6. After a polling call is transmitted, if the reply signal is not received, "WAIT FOR ACK" is shown on the display which means the **GX1200** is waiting for the vessel you called to send an acknowledgement.
7. To transmit the call again, press the RESEND soft key.
8. When the **GX1200** receives an acknowledgement from the polled vessel, the **GX1200** will show "ACKNOWLEDGED".
9. Press the QUIT soft key to return the display to the radio operation mode display.

```
       -DSC MENU-
    ▶ INDIVIDUAL
      GROUP
      ALL        -DSC MENU-
    SELEC      DSC LOG      ▲
               DSC TEST
             ▶ POLLING
             SELECT      QUIT
```

```
       -POLLING-
    ▶ MANUAL
      YAESU      -POLLING-
      STA      MANUAL
    SELEC    ▶ YAESU
               STANDARD     ▼
             SELECT      QUIT
```

```
       -POLLING-
      YAESU

      TRANSMIT?
     YES          QUIT
```

```
          -POLLING-
           YAESU
           WAIT FOR ACK
           SINCE   0:01
          RESEND        QUIT
```

```
RX POLL ACK
YAESU
ACKNOWLEDGED
SINCE   0:01   ▼
            QUIT
```
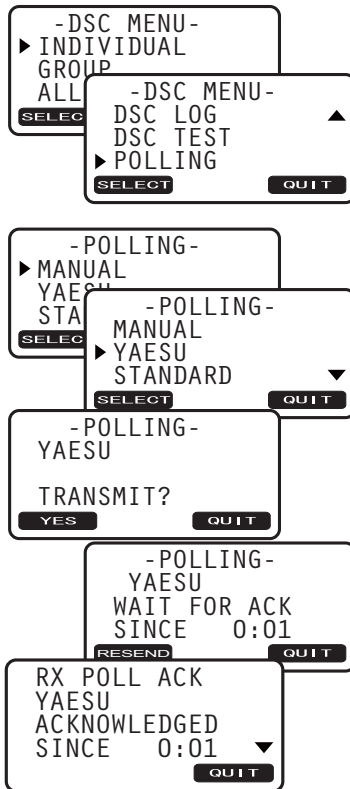
Position Polling - Manual MMSI Entry

You may enter an MMSI number manually to contact a vessel without storing the MMSI in the individual/position call directory.

1. Press the 🔲 key. The "DSC MENU" will appear in the display.
2. Press the ▲ / ▼ keys to select the "POLLING".
3. Press SELECT soft key to show the polling directory.
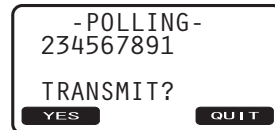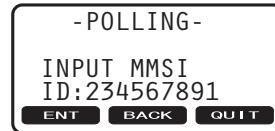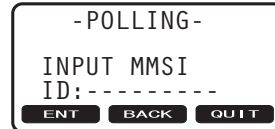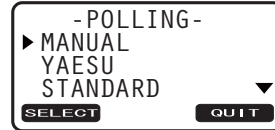4. Press the ▲ / ▼ keys to select "MANUAL", then press the SELECT soft key.
5. Enter the MMSI number (nine digits) which you want to contact.
   Press the ▲ / ▼ keys to scroll through numbers, 0 to 9. To enter the desired number and move one space to the right, press the ENT soft key. Repeat this procedure until all nine spaces of the MMSI number which you want to contact are entered.
6. If a mistake was made entering in the MMSI number repeat pressing the BACK soft key until the wrong number is selected, then move the channel knob to correct the entry.
7. When finished entering the MMSI number, press and hold the ENT soft key.
8. Press the YES soft key to transmit a polling call to the selected vessel.
9. Press the QUIT soft key to return the display to the radio operation mode display.

```
  -DSC MENU-
 DSC LOG        ▲
 DSC TEST
▶POLLING
 SELECT    QUIT
```

```
  -POLLING-
▶MANUAL
 YAESU
 STANDARD       ▼
 SELECT    QUIT
```

```
  -POLLING-

 INPUT MMSI
 ID:---------
 ENT  BACK  QUIT
```

```
  -POLLING-

 INPUT MMSI
 ID:234567891
 ENT  BACK  QUIT
```

```
  -POLLING-
 234567891

 TRANSMIT?
 YES        QUIT
```

```
  -POLLING-
 234567891
 WAIT FOR ACK
 SINCE   0:01
 RESEND     QUIT
```
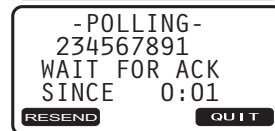
12.9.2 Receiving a Polling Call

When another vessel transmits a polling call to the **GX1200** the following will happen:

1. When a polling call is received, the display shows the vessel's MMSI or name and how long since the call was received.
2. Press the ▲ / ▼ keys to change the display to view the received data.
3. Press the REPLY soft key to send your acknowledgement to the calling vessel.
4. Press the QUIT soft key to return the display to the radio operation mode display.

```
RX POLLING
YAESU

SINCE    0:01   ▼
REPLY           QUIT
```

```
 -POLLING-
YAESU
REPLIED
SINCE    0:01
                QUIT
```
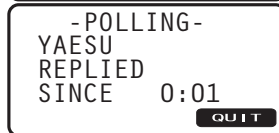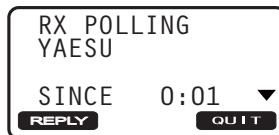
12.10 DSC TEST CALL

Use the following procedure to ensure the DSC feature are functioning with another DSC radio.

1. Press the 🔲 key. The "DSC MENU" will appear in the display.

2. Press the 🔼 / 🔽 keys to select the "DSC TEST".

3. Press the SELECT soft key, then using the 🔼 / 🔽 keys select a name to send the DSC test call to. This directory uses the individual/ position call directory information.

4. If "MANUAL" is selected in the previous step, enter the MMSI number (nine digits) which you want to send the test signal to. To do this, press the 🔼 / 🔽 keys to scroll through numbers 0 to 9, then press the ENT soft key to move the entry location to the right. If a mistake was made entering in the MMSI number, repeat pressing the BACK soft key until the wrong number is selected, then press the 🔼 / 🔽 keys to correct the entry. When finished entering the MMSI number, press and hold the ENT soft key.

5. Press the YES soft key to transmit the test signal.

6. After the DSC test call is transmitted, the **GX1200** waits for a reply from the radio which was called, the display will show "WAIT FOR ACK".

```
    -DSC MENU-
 ▶ INDIVIDUAL
   GROUP
   ALL SHIPS        ▼
 [SELECT]      [QUIT]
```

```
    -DSC MENU-
   POS REPORT       ▲
   DSC LOG
 ▶ DSC TEST         ▼
 [SELECT]      [QUIT]
```

```
    -TEST CALL-
   MANUAL
 ▶ YAESU
   STANDARD         ▼
 [SELECT]      [QUIT]
```

```
    -TEST CALL-
   YAESU

   TRANSMIT?
 [YES]         [QUIT]
```

```
    -TEST CALL-
   YAESU
   WAIT FOR ACK
   SINCE    0:01
 [RESEND]      [QUIT]
```

```
   RX TEST ACK
   YAESU
   ACKNOWLEDGED
   SINCE    0:01    ▼
               [QUIT]
```

7. When and acknowledgement call is received, the **GX1200** will produce a ringing sound and the display will show "ACKNOWLEDGED". (DSC BEEP needs to be enabled to hear alarm.)

8. Press the QUIT soft key to return the display to the radio operation mode display.
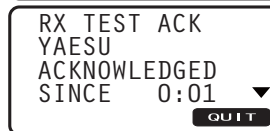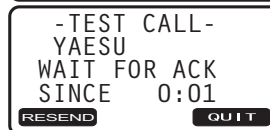
12.11 MANUAL INPUTTING OF THE GPS LOCATION (**LAT/LON**)

You may send the Latitude/Longitude of your vessel manually when a GPS receiver is not connected or is not functioning.

After the position is entered, transmitting a DSC distress or position report will contain the manually entered position.

1. Press and hold the 🔲 key until the "SETUP MENU" appears.
2. Press the 🔺 / 🔻 keys to select "POS INPUT" menu.
3. Press the SELECT soft key. The display will be as shown in the illustration on the right.
4. Enter UTC time in the 24-hour format. Use the ENT soft key and the BACK soft key to navigate to each column of the time, then use the 🔺 / 🔻 keys to select the desired numbers in each column. Repeat for each column, to complete the time.
5. Enter the latitude and longitude of your vessel location with the same procedure as description above.
6. To store the data entered, press and hold the ENT soft key. To exit this menu and return to radio mode press the QUIT soft key.

```
-SETUP MENU-
▶ GENERAL SETUP
  CH FUNC SETUP
  DSC SETUP          ▼
SELECT          QUIT
```

```
-SETUP MENU-
  CH FUNC SETUP    ▲
  DSC SETUP
▶ POS INPUT        ▼
SELECT          QUIT
```

```
-POS INPUT-
UTC: --:--
LAT: --°--.-
LON:---°--.-
ENT   BACK   QUIT
```

```
-POS INPUT-
UTC: 12:35
LAT: --°--.-
LON:---°--.-
ENT   BACK   QUIT
```

```
-POS INPUT-
UTC: 12:35
LAT: 33°34.N
LON:118°08.W
ENT   BACK   QUIT
```

```
BUSY HI USA        |◄|
   33° 37.1N
  118° 09.5w   06
   10:00 UTC
```
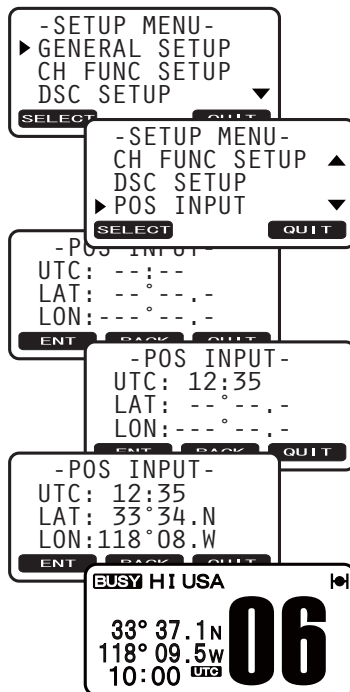
12.12 DSC LOG OPERATION

The **GX1200** logs transmitted DSC calls, received distress calls, and other calls (individual, group, all ships, etc.). The DSC log feature is similar to an answer machine where calls are recorded for review and a "▱" icon will appear on the radio's display. The **GX1200** can store up to the latest 20 transmitted calls, up to the latest 20 distress calls, and up to the latest 38 other calls.

NOTE

When the "DSC LOG" menu is selected, the **GX1200** may display high-priority logged call automatically.

12.12.1 Reviewing and Resending a Logged Transmitted Call

The **GX1200** radios allows logged transmitted calls to be reviewed and resend the call.

1. Press the 🖳 key. The "DSC MENU" will appear.
2. Press the 🔼 / 🔽 key to select "DSC LOG" menu.
3. Press the SELECT soft key, then press the 🔼 / 🔽 key to select "TRANSMIT-TED".
4. Press the SELECT soft key, then press the 🔼 / 🔽 key to select the station (name or MMSI number) you want to review and/or resend the call.
5. Press the SELECT soft key, to review details for the selected station.
6. Press the CALL soft key to resend the call or press the QUIT soft key to go back to the DSC transmitted call list.
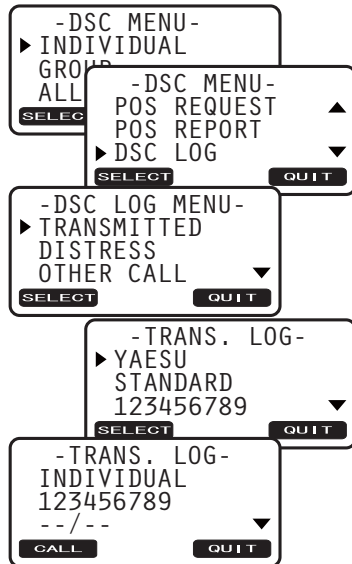
12.12.2 Reviewing a Logged DSC Distress Call

The **GX1200** radios allows logged DSC distress calls to be reviewed.

1. Press the 📳 key. The "DSC MENU" will appear.
2. Press the 🔼 / 🔽 key to select "DSC LOG" menu.
3. Press the SELECT soft key, then press the 🔼 / 🔽 key to select "DISTRESS".
4. Press the SELECT soft key, then press the 🔼 / 🔽 key to select the station (name or MMSI number) you want to review.

    Note: When there is an unread received call, "✉" icon will appear behind the station name (or MMSI number).

```
      -DSC MENU-
 ▸ INDIVIDUAL
   GROUP
   ALL      -DSC MENU-
 SELECT   POS REQUEST      ▲
          POS REPORT
        ▸ DSC LOG          ▼
         SELECT      QUIT

  -DSC LOG MENU-
   TRANSMITTED
 ▸ DISTRESS
   OTHER CALL          ▼
 SELECT          QUIT

     -DISTRESS LOG-
   ▸ YAESU
     STANDARD
     123456789         ▼
   SELECT         QUIT
```

5. Press the SELECT soft key, to review details for the selected station.
6. Press the QUIT soft key to go back to the DSC distress call list.
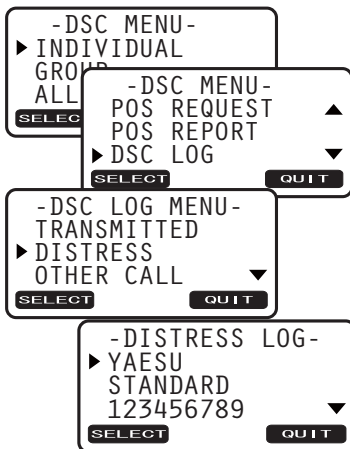
12.12.3 Reviewing a Logged Other Calls

Reviewing a logged other calls (individual, group, all ships, etc.).

1. Press the 📳 key. The "DSC MENU" will appear.
2. Press the 🔼 / 🔽 key to select "DSC LOG" menu.
3. Press the SELECT soft key, then press the 🔼 / 🔽 key to select "OTHER CALL".
4. Press the SELECT soft key, then press the 🔼 / 🔽 key to select the station (name or MMSI number) you want to review.

    Note: When there is an unread received call, "✉" icon will appear behind the station name (or MMSI number).

```
      -DSC MENU-
 ▸ INDIVIDUAL
   GROUP
   ALL      -DSC MENU-
 SELEC    POS REQUEST      ▲
          POS REPORT
        ▸ DSC LOG          ▼
         SELECT      QUIT

  -DSC LOG MENU-
   TRANSMITTED
   DISTRESS
 ▸ OTHER CALL          ▼
 SELECT          QUIT

      -OTHER LOG-
   ▸ YAESU
     STANDARD
     123456789         ▼
   SELECT         QUIT
```

5. Press the SELECT soft key, to review details for the selected station.
6. Press the QUIT soft key to go back to the DSC other call list.
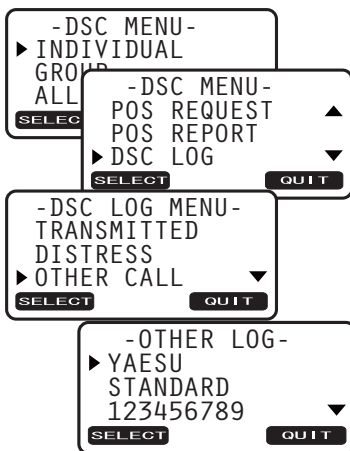
12.12.4 Deleting a Call from the "DSC LOG" Directory

1. Press the [CALL MENU] key. The "DSC MENU" will appear.

2. Press the [▲] / [▼] key to select "DSC LOG" menu.

3. Press the SELECT soft key, then press the [▲] / [▼] key to select "LOG DELETE" menu.

4. Press the SELECT soft key, then press the [▲] / [▼] key to select the category ("TRANSMITTED", "DISTRESS", or "OTHER CALL") to be deleted.

5. Press the SELECT soft key.

    1) If you want to delete all logged calls at one time, select the "DEL ALL LOG" with the [▲] / [▼] key, then press the SELECT soft key. The display will show "ARE YOUR SURE?", and then press the OK soft key. Press the QUIT soft key several times to return to radio operation.

    2) If you want to delete one of the logged stations, select the "VIEW LOG LIST" with the [▲] / [▼] key, then press the SELECT soft key. Press the [▲] / [▼] key to select the station (name or MMSI number) to be deleted, then press the SELECT soft key. The display will show "ARE YOUR SURE?", and then press the OK soft key.

6. Press the QUIT soft key several times to return to radio operation.

```
    -DSC MENU-
 ▶ INDIVIDUAL
   GROUP
   ALL      -DSC MENU-
 SELEC    POS REQUEST    ▲
          POS REPORT
        ▶ DSC LOG        ▼
          SELECT      QUIT
```

```
 -DSC LOG MENU-
  DISTRESS        ▲
  OTHER CALL
 ▶ LOG DELETE
 SELECT      QUIT
```

```
    -LOG DELETE-
  ▶ TRANSMITTED
    DISTRESS
    OTHER CALL
   SELECT      QUIT
```

```
   -TRANS. LOG-
 ▶ DEL ALL LOG
   VIEW LOG LIST

 SELECT      QUIT
```

```
   -TRANS. LOG-
   DELETE LOG
   ALL DIR.
   ARE YOU SURE?
   OK         QUIT
```

```
   -TRANS. LOG-
   DEL ALL LOG
 ▶ VIEW LOG LIST

 SELECT      QUIT
```

```
   -TRANS. LOG-
 ▶ YAESU
   STANDARD
   123456789      ▼
 SELECT      QUIT
```

```
   -TRANS. LOG-
   DELETE LOG
   YAESU
   ARE YOU SURE?
   OK         QUIT
```
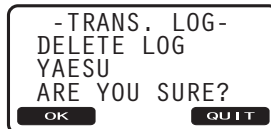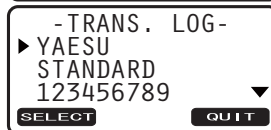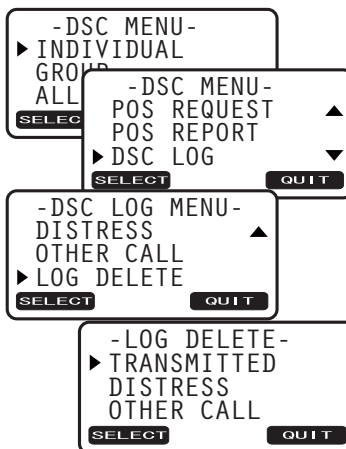
13 SETUP MENU

13.1 GENERAL SETUP

13.1.1 Lamp Adjusting

Allows adjustment of the backlight intensity or to turn it off.

1. Press and hold the 🔲 key until "SETUP MENU" appears.
2. Select "GENERAL SETUP" with the 🔲 / 🔽 keys, then press the SELECT soft key.
3. Select "DIMMER" with the 🔲 / 🔽 keys, then press the SELECT soft key.
4. Press the 🔲 / 🔽 keys to select the desired level. When "OFF" is selected, the lamp is extinguished.
5. Press the ENT soft key to store the selected level.
6. To exit this menu and return to radio operation mode press the 🔲 key or press the QUIT soft key twice.

```
-SETUP MENU-
▶ GENERAL SETUP
  CH FUNC SETUP
  DSC SETUP        ▼
SELECT      QUIT
```

```
-GENERAL SETUP-
▶ DIMMER
  CONTRAST
  TIME OFFSET      ▼
SELECT      QUIT
```

```
   -DIMMER-
▶ HIGH
  6
  5               ▼
ENT         QUIT
```

13.1.2 LCD Contrast

This selection sets up the display for best viewabilty for the varying mounting locations (overhead or below).

1. Press and hold the 🔲 key until "SETUP MENU" appears.
2. Select "GENERAL SETUP" with the 🔲 / 🔽 keys, then press the SELECT soft key.
3. Select "CONTRAST" with the 🔲 / 🔽 keys, then press the SELECT soft key.
4. Press the 🔲 / 🔽 keys to select the desired level. The contrast level can be set from "00" to "24".
5. Press the ENT soft key to store the selected level.
6. To exit this menu and return to radio operation mode press the 🔲 key or press the QUIT soft key twice.

```
-SETUP MENU-
▶ GENERAL SETUP
  CH FUNC SETUP
  DSC SETUP        ▼
SELECT      QUIT
```

```
-GENERAL SETUP-
  DIMMER
▶ CONTRAST
  TIME OFFSET      ▼
SELECT      QUIT
```

```
  -CONTRAST-
  14              ▲
  13
▶ 12              ▼
ENT         QUIT
```
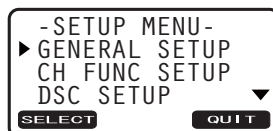
13.1.3 Time Offset

This selection sets the time offset from UTC (time GPS sends to radio).

1. Press and hold the [CALL/MENU] key until "S E T U P MENU" appears.

2. Select "GENERAL SETUP" with the [▲] / [▼] keys, then press the [SELECT] soft key.

3. Select "T I M E O F F S E T" with the [▲] / [▼] keys, then press the [SELECT] soft key.

4. Press the [▲] / [▼] keys to select time offset from UTC. See illustration below to find your offset time from UTC. If "00:00" is assigned, the time is the same as UTC (Universal Time Coordinated or GMT (Greenwich Mean Time)).

5. Press the [ENT] soft key to store the time offset.

6. To exit this menu and return to radio operation mode press the [16/9] key or press the [QUIT] soft key twice.

```
-SETUP MENU-
▶ GENERAL SETUP
  CH FUNC SETUP
  DSC SETUP        ▼
 [SELECT]    [QUIT]
```

```
-GENERAL SETUP-
  DIMMER
  CONTRAST
▶ TIME OFFSET      ▼
 [SELECT]    [QUIT]
```

```
-TIME OFFSET-
  +01:00           ▲
  +00:30
▶  00:00           ▼
 [ENT]       [QUIT]
```

-12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 +1 +2 +3 +4 +5 +6 +7 +8 +9 +10 +11 +12

UTC/GMT
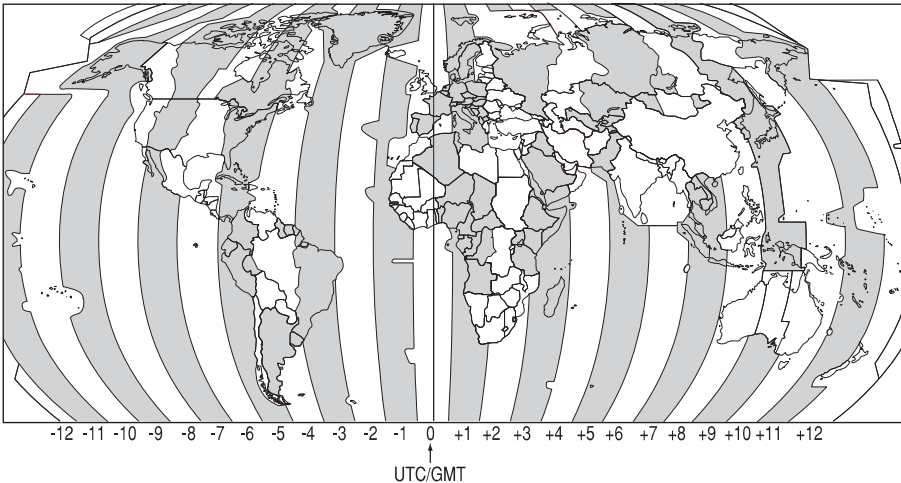
OFFSET TIME TABLE

13.1.4 Time Display

This selection selects the time area between the local time and the UTC time.

1. Press and hold the 📞 key until "S E T U P MENU" appears.
2. Select "GENERAL SETUP" with the ⏶ / ⏷ keys, then press the SELECT soft key.
3. Select "TIME DISPLAY" with the ⏶ / ⏷ keys, then press the SELECT soft key.
4. Press the ⏶ / ⏷ keys to select "UTC" or "LOCAL".
5. Press the ENT soft key to store the selected setting.
6. To exit this menu and return to radio operation mode press the 16/9 key or press the QUIT soft key twice.

```
-SETUP MENU-
▶GENERAL SETUP
 CH FUNC SETUP
 DSC SETUP        ▼
SELECT      QUIT
```

```
-GENERAL SETUP-
 CONTRAST        ▲
 TIME OFFSET
▶TIME DISPLAY    ▼
SELECT      QUIT
```

```
-TIME DISPLAY-
▶UTC
 LOCAL

 ENT        QUIT
```

```
BUSY HI USA          |◄|
33° 37.1 N       16
118° 09.5 w
14:00 UTC
```
("**UTC**" mode)

```
BUSY HI USA          |◄|
33° 37.1 N       16
118° 09.5 w
2:00 LOC PM
```
("**LOCAL**" mode)

13.1.5 Time Format

This selection selects the time format between the 12-hour system and the 24-hour system.

1. Press and hold the 📞 key until "S E T U P MENU" appears.
2. Select "GENERAL SETUP" with the ⏶ / ⏷ keys, then press the SELECT soft key.
3. Select "TIME FORMAT" with the ⏶ / ⏷ keys, then press the SELECT soft key.
4. Press the ⏶ / ⏷ keys to select "12H" or "24H".
5. Press the ENT soft key to store the selected setting.
6. To exit this menu and return to radio operation mode press the 16/9 key or press the QUIT soft key twice.

```
-SETUP MENU-
▶GENERAL SETUP
 CH FUNC SETUP
 DSC SETUP        ▼
SELECT      QUIT
```

```
-GENERAL SETUP-
 TIME OFFSET     ▲
 TIME DISPLAY
▶TIME FORMAT     ▼
SELECT      QUIT
```

```
-TIME FORMAT-
▶12H
 24H

 ENT        QUIT
```

13.1.6 Key Beep (ON/OFF)

This section allows the level of the key beep to be adjusted or turned off.

1. Press and hold the [CALL/MENU] key until "S E T U P MENU" appears.

2. Select "GENERAL SETUP" with the [▲] / [▼] keys, then press the SELECT soft key.

3. Select "KEY BEEP" with the [▲] / [▼] keys, then press the SELECT soft key.

4. Press the [▲] / [▼] keys to select desired beep level.

5. Press the ENT soft key to set the key beep condition.

6. To exit this menu and return to radio operation mode press the [16/9] key or press the QUIT soft key twice.

```
-SETUP MENU-
▶ GENERAL SETUP
  CH FUNC SETUP
  DSC SETUP        ▼
SELECT          QUIT
```

```
-GENERAL SETUP-
  TIME OFFSET      ▲
  TIME DISPLAY
▶ KEY BEEP         ▼
SELECT          QUIT
```

```
-KEY BEEP-
  LEVEL 5          ▲
  LEVEL 4
▶ LEVEL 3          ▼
  ENT           QUIT
```
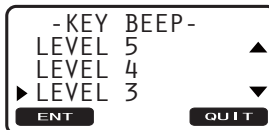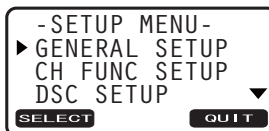
NOTE

Emergency alarm and beeps for DSC operation cannot be turned OFF.

13.1.7 Soft Keys

This menu item assigns the number of soft keys, soft key selection and how long the display will show the soft key icon after a soft key is pressed.

13.1.7.1 Selecting the Number of Soft Keys

1. Press and hold the [CALL/MENU] key until "SETUP MENU" appears, then select "GENERAL SETUP" with the [▲] / [▼] key.
2. Press the [SELECT] soft key, then press the [▲] / [▼] key to "SOFT KEYS".
3. Press the [SELECT] soft key, then press the [▲] / [▼] key to "NUMBER OF KEY".
4. Press the [SELECT] soft key, then press the [▲] / [▼] key to select the number of soft keys (3 through 10).
5. Press the [ENT] soft key to store the selected setting.
6. To exit this menu and return to radio operation mode press the [16/9] key or press the [QUIT] soft key three times.
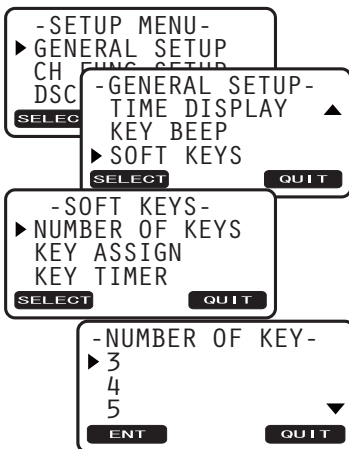
13.1.7.2 Assigning Soft Keys

1. Press and hold the [CALL/MENU] key until "SETUP MENU" appears, then select "GENERAL SETUP" with the [▲] / [▼] key.
2. Press the [SELECT] soft key, then press the [▲] / [▼] key to "SOFT KEYS".
3. Press the [SELECT] soft key, then press the [▲] / [▼] key to select "KEY ASSIGN" (to change the function of selected soft keys).
4. Press the [SELECT] soft key, then press the [▲] / [▼] key to select the key that you want to change.
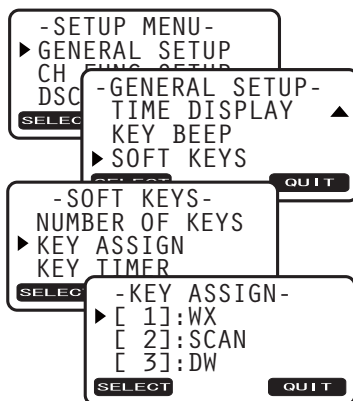
5. Press the SELECT soft key, then press the ▲ / ▼ key to select the new function to be assigned, and press the ENT soft key. Available functions are listed below.

```
-KEY ASSIGN-
▶ NONE
  SCAN
  DW                    ▼
  ENT          QUIT
```

DISPLAY	FUNCTION
SCAN	Starts and stops scanning.
DW	Starts and stops the dual watch scan.
PRESET	Saves or deletes the preset memory channel.
WX	Immediately recalls the last select weather channel.
PRE0 to PRE9	Immediately recalls the preset memory channels.

6. Repeat steps 4 and 5 to program the other soft keys. The factory defaults are Key 1: WX , Key 2: SCAN , Key 3: DW , and Key 4: PRESET function.

7. To exit this menu and return to radio operation mode press the [16/9] key or press the QUIT soft key four times.

13.1.7.3 Selecting How Long the Soft Keys are Shown

1. Press and hold the [CALL MENU] key until "SETUP MENU" appears, then select "GENERAL SETUP" with the ▲ / ▼ key.

```
-SETUP MENU-
▶ GENERAL SETUP
  CH FUNC SETUP
  DSC
  SELECT
```

2. Press the SELECT soft key, then press the ▲ / ▼ key to "SOFT KEYS".

```
-GENERAL SETUP-
  TIME DISPLAY     ▲
  KEY BEEP
▶ SOFT KEYS
  SELECT          QUIT
```

3. Press the SELECT key, then press the ▲ / ▼ key to select "KEY TIMER" (selects how long the soft key icon will be shown on the display after a soft key is pressed, default is 4 seconds). Then, press the SELECT soft key.

```
-SOFT KEYS-
  NUMBER OF KEYS
  KEY ASSIGN
▶ KEY TIMER
  SELECT          QUIT
```

4. Press the ▲ / ▼ key to select the time.

```
-KEY TIMER-
▶ 3               ▲
  4
  5               ▼
  ENT          QUIT
```

5. Press the ENT soft key to store the selected setting.

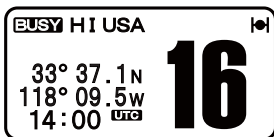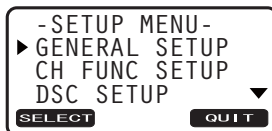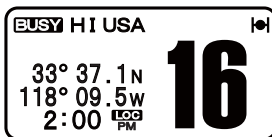6. To exit this menu and return to radio operation mode press the [16/9] key or press the QUIT soft key three times.
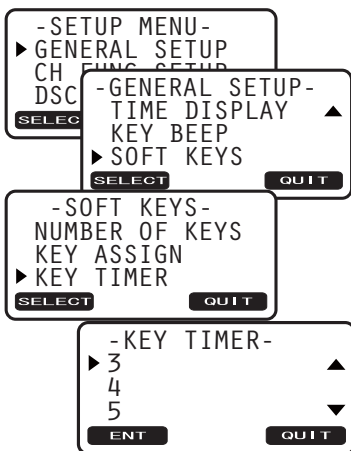
13.2 CHANNEL FUNCTION SETUP

13.2.1 Channel Group
(**USA, Canada or International Band Selection**)

To change the channel group from USA, Canada, and International.

1. Press and hold the 🔲 key until "S E T U P MENU" appears.
2. Press the 🔼 / 🔽 key to select "CH FUNC SETUP".
3. Press the SELECT soft key, then press the 🔼 / 🔽 key to select "CH GROUP".
4. Press the SELECT soft key.
5. Press the 🔼 / 🔽 key to select desired channel group "USA", "INT", or "CAN".
6. Press the ENT soft key to store the selected setting.
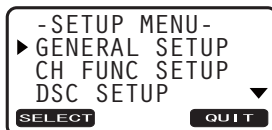7. To exit this menu and return to radio operation mode press the 16/9 key or press the QUIT soft key twice.

```
-SETUP MENU-
 GENERAL SETUP
▶CH FUNC SETUP
 DSC SETUP        ▼
 SELECT      QUIT
```

```
-CH FUNC SETUP-
▶CH GROUP
 SCAN MEMORY
 SCAN TYPE        ▼
 SELECT      QUIT
```

```
 -CH GROUP-
▶GROUP1:USA
 GROUP2:INT
 GROUP3:CAN
 SELECT      QUIT
```
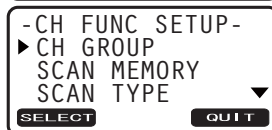
13.2.2 Scan Memory

To be able to scan channels the radio must be programmed. This section allows channels to be stored in scan memory.

1. Press and hold the 🔲 key until "S E T U P MENU" appears.
2. Press the 🔼 / 🔽 key to select "CH FUNC SETUP".
3. Press the SELECT soft key, then press the 🔼 / 🔽 key to select "SCAN MEMORY".
4. Press the SELECT soft key.
5. Press the 🔼 / 🔽 key to select a desired channel to be scanned, the press the ADD key. The "**MEM**" icon appears on the display, which indicates the channel has been selected to the scan channel.
6. Repeat step 5 for all the desired channels to be scanned.

```
-SETUP MENU-
 GENERAL SETUP
▶CH FUNC SETUP
 DSC SETUP        ▼
 SELECT      QUIT
```

```
-CH FUNC SETUP-
 CH GROUP
▶SCAN MEMORY
 SCAN TYPE        ▼
 SELECT      QUIT
```

```
 -SCAN MEMORY-
▶16              ▲
 15
 14              ▼
 ADD    DEL   QUIT
```

```
 -SCAN MEMORY-
▶16    MEM       ▲
 15
 14              ▼
 ADD    DEL   QUIT
```

7. To delete a channel from the list, select the channel then press the **DEL** key. The "**MEM**" icon disappears from the display.

8. To exit this menu and return to radio operation mode press the [16/9] key or press the **QUIT** soft key twice.

13.2.3 Scan Type

This selection is used to select the scan mode between "Memory Scan" and "Priority Scan". The default setting is Priority Scan.

1. Press and hold the [CALL/MENU] key until "S E T U P M E N U" appears.

2. Press the [▲] / [▼] key to select "C H   F U N C S E T U P".

3. Press the **SELECT** soft key, then select "S C A N T Y P E" with the [▲] / [▼] key.

4. Press the **SELECT** soft key.

5. Press the [▲] / [▼] key to select "P R I O R I T Y S C A N" or "M E M O R Y   S C A N".

6. Press the **ENT** soft key to store the selected setting.

7. To exit this menu and return to radio operation mode press the [16/9] key or press the **QUIT** soft key twice.

```
 -SETUP MENU-
  GENERAL SETUP
▶ CH FUNC SETUP
  DSC SETUP        ▼
 SELECT      QUIT
```

```
-CH FUNC SETUP-
  CH GROUP
  SCAN MEMORY
▶ SCAN TYPE       ▼
 SELECT      QUIT
```

```
  -SCAN TYPE-
▶ PRIORITY SCAN
  MEMORY SCAN

  ENT        QUIT
```
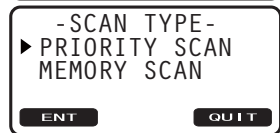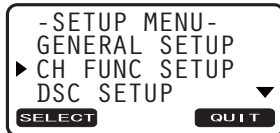
13.2.4 Scan Resume

This selection is used to select the time the **GX1200** waits after a transmission ends before the radio start to scan channels again. The default setting is 2 seconds.

1. Press and hold the [CALL/MENU] key until "S E T U P M E N U" appears.

2. Press the [▲] / [▼] key to select "C H   F U N C S E T U P".

3. Press the **SELECT** soft key, then select "S C A N R E S U M E" with the [▲] / [▼] key.

4. Press the **SELECT** soft key.

```
 -SETUP MENU-
  GENERAL SETUP
▶ CH FUNC SETUP
  DSC SETUP        ▼
 SELECT      QUIT
```

```
-CH FUNC SETUP-
  SCAN MEMORY     ▲
  SCAN TYPE
▶ SCAN RESUME     ▼
 SELECT      QUIT
```
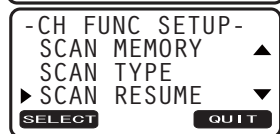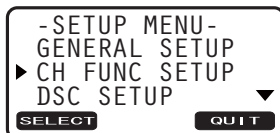
5. Press the ▲ / ▼ key to select the desired resume time, default is 2 seconds. The resume time can be set to "0" through "5". In the "0" selection, the scanner will resume after the other station stops transmitting (carrier drops).

```
-SCAN RESUME-
▶ 5
  4
  3              ▼
 ENT        QUIT
```

6. Press the ENT soft key to store the selected setting.
7. To exit this menu and return to radio operation mode press the [16/9] key or press the QUIT soft key twice.

13.2.5 Priority Channel

Allows selection of the priority channel.

1. Press and hold the [CALL/MENU] key until "S E T U P MENU" appears.
2. Select "CH FUNC SETUP" with the ▲ / ▼ keys, then press the SELECT soft key.
3. Select "PRIORITY CH" with the ▲ / ▼ keys, then press the SELECT soft key.
4. Press the ▲ / ▼ keys to select the channel to be a priority.
5. Press the ENT soft key to store the selected setting.
6. To exit this menu and return to radio operation mode press the [16/9] key or press the QUIT soft key twice.

```
-SETUP MENU-
  GENERAL SETUP
▶ CH FUNC SETUP
  DSC SETUP      ▼
SELECT      QUIT
```

```
-CH FUNC SETUP-
  SCAN TYPE      ▲
  SCAN RESUME
▶ PRIORITY CH    ▼
SELECT      QUIT
```

```
-PRIORITY CH-
▶ 16             ▲
  15
  14             ▼
 ENT        QUIT
```
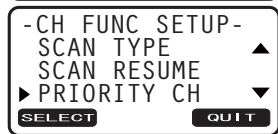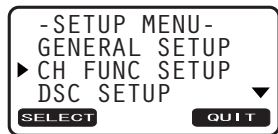
13.2.6 WX Alert

This section allows the NOAA Weather alert to be customized.

1. Press and hold the [CALL/MENU] key until "S E T U P MENU" appears.
2. Select "CH FUNC SETUP" with the ▲ / ▼ keys, then press the SELECT soft key.
3. Select "WX ALERT" with the ▲ / ▼ keys, then press the SELECT soft key.

```
-SETUP MENU-
  GENERAL SETUP
▶ CH FUNC SETUP
  DSC SETUP      ▼
SELECT      QUIT
```

```
-CH FUNC SETUP-
  SCAN RESUME    ▲
  PRIORITY CH
▶ WX ALERT
SELECT      QUIT
```
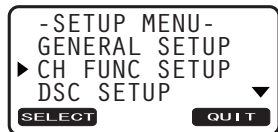
4. Press the ▲ / ▼ keys to select the desired weather alert mode.

```
 -WX ALERT-
▶ ON
  OFF
 ENT        QUIT
```

ON: Emits a load beep when the weather alert is received while receiving the Weather channel and/or scanning the Weather channels.

OFF: Disable the weather alert function.

5. Press the ENT soft key to store the selected setting.

6. To exit this menu and return to radio operation mode press the 16/9 key or press the QUIT soft key twice.

13.3 DSC SETUP

13.3.1 Individual Directory

The **GX1200** has a DSC directory that allows you to store a vessel or person's name and the MMSI number associated with vessels you wish to transmit individual calls, position requests and position report transmissions.

To transmit an individual call you must program this directory with information of the persons you wish to call, similar to a cellular phones telephone directory.

Refer to section "**12.5.1 Setting up the Individual / Position Call Directory**" for programming.

13.3.2 Individual Reply

This menu item sets up the radio to automatically (default setting) or manually respond to a DSC individual call requesting you to switch to a working channel for voice communications. When the manual response is selected the MMSI of the calling vessel is shown allowing you to see who is calling. This function is similar to caller id on a cellular phone.

Refer to section "**12.5.2 Setting up Individual Reply**" for setting.

13.3.3 Individual Acknowledgement

The radio can be setup to transmit a reply automatically (default) or set so the radio will not reply to an individual call.

Refer to section "**12.5.3 Setting up the Individual Acknowledge Message**" for setting.

13.3.4 Individual Ringer

The radio can be setup to ring like a telephone to alert you the radio received a DSC individual call. The default setting is 2 minutes, however this can be changed to 15, 10 or 5 seconds.

Refer to section "**12.5.4 Setting up Individual Call Ringer**" for setting.

13.3.5 Group Directory

For this function to operate, the same group MMSI must be programmed into all the DSC VHF radios within the group of vessels that will be using this feature. To understand group MMSI programming, first a ship MMSI has to be understood.

Refer to section "**12.6.1 Setup a Group Call**" for programming.

13.3.6 Position Reply

The **GX1200** can be set up to automatically (default setting) or manually send your position when requested by another vessel. This selection is important if you are concerned about someone polling the position of your vessel that you may not want to. In the manual mode you will see the MMSI or persons name shown on the display allowing you to choose to send your position to the requesting vessel.

Refer to section "**12.7.1 Setting up the Position Reply**" for setting.

13.3.8 DSC Beep

This feature allows the alarm beeps to be turned on (default setting) or off when a DSC call is received. The DSC calls that can be customized are: individual, group, all ships, position request, position report, geographical call using the procedure below:
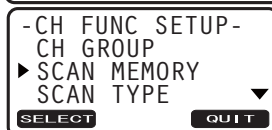
1. Press and hold the 🔳 key until "SETUP MENU" appears.
2. Press the ▲ / ▼ key to select "DSC SETUP" menu.
3. Press the SELECT soft key, then select "DSC BEEP" with the ▲ / ▼ key.
4. Press the SELECT soft key, then press the ▲ / ▼ key to the desired DSC call type and press the ENT soft key.
5. Press the ▲ / ▼ key to turn "ON" or "OFF" the DSC beep and press the ENT soft key.
6. To exit this menu and return to radio operation mode press the 16/9 key or press the QUIT soft key twice.

```
-SETUP MENU-
 GENERAL SETUP
 CH FUNC SETUP
▶DSC SETUP        ▼
 SELECT       QUIT
```

```
-DSC SETUP-
 GROUP DIR        ▲
 POS REPLY
▶DSC BEEP         ▼
 SELECT       QUIT
```

```
-DSC BEEP-
SELECT CALL
INDIVIDUAL
BEEP:ON
 ENT         QUIT
```

```
-DSC BEEP-
SELECT CALL
INDIVIDUAL
BEEP:OFF
 ENT         QUIT
```

13.3.9 Auto Channel Switching Time

When a DSC distress call or an all ships call (urgency or safety) is received, the **GX1200** will automatically switch to the channel 16.

This menu selection allows the automatic switching time to be changed. The default selection is 30 seconds.

1. Press and hold the [CALL/MENU] key until "S E T U P MENU" appears.
2. Press the [▲] / [▼] key to select "DSC SETUP" menu.
3. Press the SELECT soft key, then select "AUTO CH SW" with the [▲] / [▼] key.
4. Press the SELECT soft key, then press the [▲] / [▼] key to the desired time and press the ENT soft key.

   Note: When "OFF" is selected here, the "D" icon will appear on the display.
5. To exit this menu and return to radio operation mode press the [16/9] key or press the QUIT soft key twice.

```
-SETUP MENU-
 GENERAL SETUP
 CH FUNC SETUP
▶DSC SETUP        ▼
SELECT      QUIT
```

```
-DSC SETUP-
 POS REPLY        ▲
 DSC BEEP
▶AUTO CH SW       ▼
SELECT      QUIT
```

```
-AUTO CH SW-
   10 SEC         ▲
   20 SEC
▶  30 SEC         ▼
 ENT        QUIT
```

```
BUSY HI USA          |◄|
 33° 37.1 N        16 D
118° 09.5 W
10:00 UTC PM
```
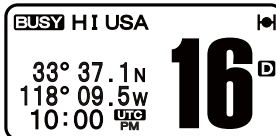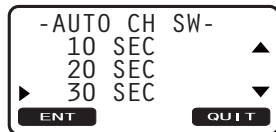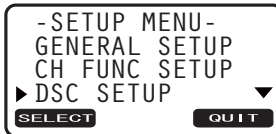
13.3.10 No Action during Menu Operation

If a key is not pressed during the setup menu or the DSC menu mode, the **GX1200** will automatically return to radio operation.

This menu selection allows the automatic switching time to be changed. The default selection is 10 minutes.

1. Press and hold the [CALL MENU] key until "S E T U P MENU" appears.
2. Press the [▲] / [▼] key to select "DSC SETUP" menu.
3. Press the SELECT soft key, then select "N O ACT-MENU" with the [▲] / [▼] key.
4. Press the SELECT soft key, then press the [▲] / [▼] key to the desired time and press the ENT soft key.
5. To exit this menu and return to radio operation mode press the [16/9] key or press the QUIT soft key twice.

```
-SETUP MENU-
 GENERAL SETUP
 CH FUNC SETUP
▶DSC SETUP       ▼
SELECT      QUIT
```

```
-DSC SETUP-
 DSC BEEP        ▲
 AUTO CH SW
▶NO ACT-MENU     ▼
SELECT      QUIT
```

```
-NO ACT-MENU-
  4 MIN          ▲
  5 MIN
▶10 MIN          ▼
 ENT        QUIT
```
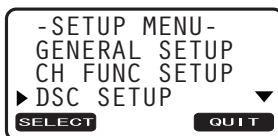
13.3.11 No Action during DSC Operation

If a key is not pressed during the DSC operation, the **GX1200** will automatically return to radio operation.

This menu selection allows the automatic switching time to be changed. The default selection is 15 minutes.

1. Press and hold the [CALL MENU] key until "S E T U P MENU" appears.
2. Press the [▲] / [▼] key to select "DSC SETUP" menu.
3. Press the SELECT soft key, then select "N O ACT-DSC" with the [▲] / [▼] key.
4. Press the SELECT soft key, then press the [▲] / [▼] key to the desired time and press the ENT soft key.
5. To exit this menu and return to radio operation mode press the [16/9] key or press the QUIT soft key twice.

```
-SETUP MENU-
 GENERAL SETUP
 CH FUNC SETUP
▶DSC SETUP       ▼
SELECT      QUIT
```

```
-DSC SETUP-
 AUTO CH SW      ▲
 NO ACT-MENU
▶NO ACT-DSC      ▼
SELECT      QUIT
```

```
-NO ACT-DSC-
  5 MIN          ▲
 10 MIN
▶15 MIN          ▼
 ENT        QUIT
```
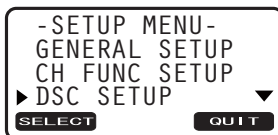
13.3.12 No Action during Distress Operation

If a key is not pressed during the distress operation, the **GX1200** will automatically return to radio operation.

This menu selection allows the automatic switching time to be changed. The default selection is "OFF".

1. Press and hold the [CALL/MENU] key until "SETUP MENU" appears.

2. Press the [▲] / [▼] key to select "DSC SETUP" menu.

3. Press the SELECT soft key, then select "NO ACT-DIST" with the [▲] / [▼] key.

4. Press the SELECT soft key, then press the [▲] / [▼] key to the desired time and press the ENT soft key.

5. To exit this menu and return to radio operation mode press the [16/9] key or press the QUIT soft key twice.

```
-SETUP MENU-
 GENERAL SETUP
 CH FUNC SETUP
▶DSC SETUP        ▼
 SELECT      QUIT
```

```
-DSC SETUP-
 NO ACT-MENU     ▲
 NO ACT-DSC
▶NO ACT-DIST
 SELECT      QUIT
```

```
-NO ACT-DIST-
▶OFF
  1 MIN
  2 MIN           ▼
 ENT         QUIT
```
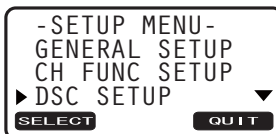
14 MAINTENANCE

The inherent quality of the solid-state components used in this transceiver will provide many years of continuous use. Taking the following precautions however, will prevent damage to the transceiver.

*   Never key the microphone unless an antenna or suitable dummy load is connected to the transceiver.
*   Ensure that the supply voltage to the transceiver does not exceed 16 VDC or fall below 11 VDC.
*   Use only STANDARD HORIZON-approved accessories and replacement parts.

In the unlikely event of serious problems, please contact your Dealer or our repair facility.

14.1 REPLACEMENT PARTS

Occasionally an owner needs a replacement mounting bracket or knob.

These can be ordered from our Parts Department by emailing yaesuparts@yaesu.com or calling (in USA or Canada), or Standard Horizon authorized dealers (outside USA or Canada).

Standard Horizon
Marine Division of YAESU U.S.A.
6125 Phyllis Drive, Cypress, California 90630, U.S.A.
Telephone 800-767-2450 ext 6800

Commonly requested parts, and their part numbers are listed below.

*   **Power Cord**: T9025406
*   **VOL/SQL Knob** (**Black**): RA097700A
*   **VOL/SQL Knob** (**White**): RA097310A
*   **Mounting Bracket** (**Black**): RA097840A
*   **Mounting Bracket** (**White**): RA097830A
*   **Mounting Bracket Knob** (**Black**): RA0978600
*   **Mounting Bracket Knob** (**White**): RA0978500
*   **Microphone Hanger** (**Black**): RA0458800
*   **Microphone Hanger** (**White**): RA0436000

14.2 FACTORY SERVICE

In the unlikely event that the radio fails to perform or needs servicing, please contact STANDARD HORIZON (in USA or Canada) or STANDARD HORIZON authorized dealers (outside USA or Canada).

For repairs in USA

Standard Horizon
Attention Marine Repair Department
6125 Phyllis Drive, Cypress, California 90630
Telephone 800-366-4566

For repairs in Canada

Westcom Marine
488 East 62nd Avenue
Vancouver BC V5X2G1
Telephone 604-327-6280

An "RA" (Return Authorisation) number is not necessary to send a product in for service. Include a brief note describing the problem along with your name, return address, phone number, and proof of purchase.

14.3 TROUBLESHOOTING CHART

SYMPTOM	PROBABLE CAUSE	REMEDY
Transceiver fails to power up.	No DC voltage to the transceiver, or blown fuse.	a. Check the 12VDC battery connections and the fuse. b. The VOL knob needs to be rotated clockwise to turn the radio on.
Transceiver blows fuse when connected to power supply.	Reversed power wires.	Check the power cable for DC voltage, or replace the fuse (6A 250V). Make sure the red wire is connected to the positive (+) battery post, and the black wire is connected to the negative (-) battery post. If the fuse still blows, contact your Dealer.
Popping or whining noise from the speaker while engine runs.	Engine noise.	Reroute the DC power cables away from the engine. Add noise suppressor on power cable. Change to resistive spark plug wires and/or add an alternator whine filter.
Sound is not emitted from the internal or external speaker.	Accessory cable.	Check the connections of the accessory cable (Possible short circuit on the External speaker cable WHITE/SHIELD).
Receiving station report low transmit power, even with transceiver set to HI power.	Antenna.	Have the antenna checked or test the transceiver with another antenna. If the problem persists, contact your Dealer for servicing.
"HI BATTERY" or "LO BATTERY" message is appeared when the power is turned on.	The power supply voltage is too high or too low.	Confirm that the connected power supply voltage is between 10 volts and 17 volts DC. Confirm that the generator has not malfunctioned.
Your position is not displayed.	Accessory cable.	Check the accessory cable connection. Some GPS use the battery ground line for NMEA connection.
	Setting of the GPS navigation receiver.	Check the output signal format of the GPS navigation receiver. This radio requires NMEA0183 format with GLL, RMC, GGA, or GNS sentence as an output signal. If the GPS has a baud rate setting make sure to select 4800 and parity to NONE.

15 CHANNEL ASSIGNMENTS

Tables on the following columns list the VHF Marine Channel assignments for U.S.A. and International use. Below are listed some data about the charts.

1. VTS. Where indicated, these channels are part of the U.S. Coast Guard's Vessel Traffic System.

2. Alpha channel numbers, that is, channel numbers followed by the letter A (such as Channel 07**A**) are *simplex* channels on the U.S.A. or Canadian channel assignments whose counterparts in the International assignments are *duplex* channels. International channels do not use "alpha" numbers. If you call the Coast Guard on Channel 16, they will sometimes ask you to "*go to channel 22 Alpha*." This is a channel assigned to U.S.A, and Canadian Coast Guards for handling distress and other calls. If your radio is set for *International* operation you will go to Channel 22 instead of 22**A**, and will not be able to communicate with the Coast Guard. To use Channel 22**A**, your radio must be set for *USA* or *Canada* operation, usually by a U/I/C (USA/International/Canada) control or combination of controls. Channel 22 (without an "A") is an *International* duplex channel for port operations. Some radios indicate an "A" adjacent to the alpha channels on the display; on others "alpha" is not indicated but the proper channel is selected based on the U/I/C setting.

3. Bridge-to-Bridge channels (for example, Channel 13) are for use by bridge operators on inter-coastal waterways and rivers. It is also used by marine vessels in the vicinity of these bridges for navigation and for communicating with the bridge operators. Note that a limit of 1 Watt is specified for these channels.

4. The **S/D** column on the chart indicates either S (simplex) or D (duplex). *Simplex* means transmitting and receiving on the same frequency. Only one party at a time can talk, unlike a telephone. Be sure to say "*over*" and release your microphone push-to-talk switch at the end of each transmission. *Duplex* operation involves the use of one frequency for transmitting and a separate frequency for receiving. On channels specified as duplex on the charts, correct mode of operation is established automatically by your radio when you select a channel; you cannot change the mode. And you still must release the push-to-talk switch after each transmission in order to listen to the radio.

5. Channels normally used by recreational boaters are those that include the term "non-commercial" in the *Channel Use* column of the chart. Some of these are shared with other users and some are used only in

certain geographic regions.

6. Marine vessels equipped with VHF radios are required to monitor Channel 16.

7. 156.050 MHz and 156.175 MHz are available for port operations and commercial communications purposes when used only within the U.S. Coast Guard designated Vessel Traffic Services (VTS) area of New Orleans, on the lower Mississippi River from the various pass entrances in the Gulf of Mexico to Devil's Swamp Light at River Mile 242.4 above head of passes near Baton Rouge.

8. 156.250 MHz is available for port operations communications use only within the U.S. Coast Guard designated VTS radio protection areas of New Orleans and Houston described in Sec. 80.383. 156.250 MHz is available for inter-ship port operations communications used only within the area of Los Angeles and Long Beach harbors, within a 25- nautical mile radius of Point Fermin, California.

9. 156.550 MHz, 156.600 MHz and 156.700 MHz are available in the U.S. Coast Guard designated port areas only for VTS communications and in the Great Lakes available primarily for communications relating to the movement of ships in sectors designated by the St. Lawrence Seaway Development Corporation or the U.S. Coast Guard. The use of these frequencies outside VTS and ship movement sector protected areas is permitted provided they cause no interference to VTS and ship movement communications in their respective designated sectors.

10. Use of 156.875 MHz is limited to communications with pilots regarding the movement and docking of ships. Normal output power must not exceed 1 watt. 5: 156.375 MHz and 156.650 MHz are available primarily for inter-ship navigational communications. These frequencies are available between coast and ship on a secondary basis when used on or in the vicinity of locks or drawbridges. Normal output power must not exceed 1 watt. Maximum output power must not exceed 10 watts for coast stations or 25 watts for ship stations.

11. On the Great Lakes, in addition to bridge-to-bridge communications, 156.650 MHz is available for vessel control purposes in established vessel traffic systems. 156.650 MHz is not available for use in the Mississippi River from South Pass Lighted Whistle Buoy "2" and Southwest Pass entrance Mid-channel Lighted Whistle Buoy to mile 242.4 above Head of Passes near Baton Rouge. Additionally it is not available for use in the Mississippi River-Gulf Outlet, the Mississippi River-Gulf Outlet Canal, and the Inner Harbor Navigational Canal, except to aid the transition from these areas.

12. Use of 156.375 MHz is available for navigational communications only in the Mississippi River from South Pass Lighted Whistle Buoy "2" and Southwest Pass entrance Mid channel Lighted Whistle Buoy to mile 242.4 above head of Passes near Baton Rouge, and in addition over the full length of the Mississippi River-Gulf Outlet Canal from entrance to its junction with the Inner Harbor Navigation Canal, and over the full length of the Inner Harbor Navigation Canal from its junction with the Mississippi River to its entry to Lake Pontchartrain at the New Seabrook vehicular bridge.

13. Within 120 km (75 miles) of the United States/Canada border, in the area of the Puget Sound and the Strait of Juan de Fuca and its approaches, 157.425 MHz is half of the duplex pair designated as Channel 88. In this area, Channel 88 is available to ship stations for communications with public coast stations only. More than 120 km (75 miles) from the United States/Canada border in the area of the Puget Sound and the Strait of Juan de Fuca, its approaches, the Great Lakes, and the St. Lawrence Seaway, 157.425 MHz is available for inter-ship and commercial communications. Outside Puget Sound area and its approaches and the Great Lakes, 157.425 MHz is also available for communications between commercial fishing vessels and associated aircraft while engaged in commercial fishing activities.

14. When the frequency 156.850 MHz is authorized, it may be used additionally for search and rescue training exercises conducted by state or local governments.

15. The frequency 156.850 MHz is additionally available to coast stations on the Great Lakes for transmission of scheduled Coded Marine Weather Forecasts (MAFOR), Great Lakes Weather Broadcast (LAWEB) and scheduled Notices to Mariners or Bulletins. F3C and J3C emissions are permitted. Coast Stations on the Great Lakes must cease weather broadcasts which cause interference to stations operating on 156.800 MHz until the interference problem is resolved.

16. The frequency 157.100 MHz is authorized for search and rescue training exercises by state or local government in conjunction with U.S. Coast Guard stations. Prior U.S. Coast Guard approval is required. Use must cease immediately on U.S. Coast Guard request.

17. The duplex pair for channel 20 (157.000/161.600 MHz) may be used for ship to coast station communications.

18. Available for assignment to coast stations, the use of which is in accord with an agreed program, for the broadcast of information to ship stations concerning the enviro.

VHF MARINE CHANNEL CHART						
CH	U	C	I	S/D	TX	RX	CHANNEL USE
01		X	X	D	156.050	160.650	Public Correspondence (Marine Operator)
01A	X			S	156.050		Port Operation and Commercial. VTS in se-lected areas
02		X	X	D	156.100	160.700	Public Correspondence (Marine Operator)
03		X	X	D	156.150	160.750	Public Correspondence (Marine Operator)
03A	**X**			**S**	**156.150**		**U.S. Government Only, Coast Guard**
04			X	D	156.200	160.800	Public Correspondence (Marine Operator), Port operation, ship movement
04A		X		S	156.200		Pacific coast: Coast Guard, East Coast: Commercial fishing
05			X	D	156.250	160.850	Public Correspondence (Marine Operator), Port operation, ship movement
05A	X	X		S	156.250		Port operation. VTS in Seattle
06	X	X	X	S	156.300		Inter-ship Safety
07			X	D	156.350	160.950	Public Correspondence (Marine Operator), Port operation, ship movement
07A	X	X		S	156.350		Commercial
08	X	X	X	S	156.400		Commercial (Inter-ship only)
09	X	X	X	S	156.450		Boater Calling channel, Commercial & Non-commercial (Recreational)
10	X	X	X	S	156.500		Commercial
11	X	X	X	S	156.550		Commercial. VTS in selected areas.
12	X	X	X	S	156.600		Port operation. VTS in selected areas.
13	X	X	X	S	156.650		Inter-ship Navigation Safety (Bridge-to-bridge)
14	X	X	X	S	156.700		Port operation. VTS in selected areas.
15	X			S	- - -	156.750	Environmental (Receive only)
15		X	X	S	156.750		Commercial, non-commercial, ship move-ment (1 W)
16	X	X	X	S	156.800		International Distress, Safety and Calling
17	X	X	X	S	156.850		State Controlled (1 W)
18			X	D	156.900	161.500	Port operation, ship movement
18A	X	X		S	156.900		Commercial
19			X	D	156.950	161.550	Port operation, ship movement
19A	X			S	156.950		US: Commercial
19A		X		S	156.950		Coast Guard
20	X	X	X	D	157.000	161.600	Canadian Coast Guard Only, International: port operations and shipment
20A	X			S	157.000		Port operation
21			X	D	157.050	161.650	Port operation, ship movement
21A	**X**	**X**		**S**	**157.050**		**U.S. Government Only, Canadian Coast Guard**
22			X	D	157.100	161.700	Port operation, ship movement
22A	X	X		S	157.100		US and Canadian Coast Guard Liaison and Maritime Safety Information Broadcasts an-nounced on channel 16

CH	U	C	I	S/D	TX	RX	CHANNEL USE
					VHF MARINE CHANNEL CHART		
23		X	X	D	157.150	161.750	Public Correspondence (Marine Operator)
23A	**X**			**S**	**157.150**		**U.S. Government Only**
24	X	X	X	D	157.200	161.800	Public Correspondence (Marine Operator)
25	X	X	X	D	157.250	161.850	Public Correspondence (Marine Operator)
26	X	X	X	D	157.300	161.900	Public Correspondence (Marine Operator)
27	X	X	X	D	157.350	161.950	Public Correspondence (Marine Operator)
28	X	X	X	D	157.400	162.000	Public Correspondence (Marine Operator)
60		X	X	D	156.025	160.625	Public Correspondence (Marine Operator)
61			X	D	156.075	160.675	Public Correspondence (Marine Operator), Port operation, ship movement
61A	**X**	**X**		**S**	**156.075**		**Public Coast: Coast Guard; East Coast: commercial fishing only**
62			X	D	156.125	160.725	Public Correspondence (Marine Operator), Port operation, ship movement
62A		X		S	156.125		Public Coast: Coast Guard; East Coast: commercial fishing only
63			X	D	156.175	160.775	Public Correspondence (Marine Operator), Port operation, ship movement
63A	X	X		S	156.175		Port Operation and Commercial. VTS in selected areas.
64		X	X	D	156.225	160.825	Public Correspondence (Marine Operator), Port operation, ship movement
64A	**X**	**X**		**S**	**156.225**		**Public Correspondence (Marine Operator), Port operation, ship movement**
65			X	D	156.275	160.875	Public Correspondence (Marine Operator), Port operation, ship movement
65A	X	X		S	156.275		Port Operations
66			X	D	156.325	160.925	Public Correspondence (Marine Operator), Port operation, ship movement
66A	X	X		S	156.325		Port Operations
67	X	X	X	S	156.375		US: Commercial. Used for Bridge-to-bridge communications in lower Mississippi River. Inter-ship only, Canada: Commercial fishing, S&R
68	X	X	X	S	156.425		Non-commercial (Recreational)
69	X	X	X	S	156.475		US: Non-commercial (Recreational), Canada: Commercial fishing only, International: Inter-ship, Port operations and Ship movement
70	X	X	X	S	156.525		Digital selective calling (voice communications not allowed)
71	X	X	X	S	156.575		US, Canada: Non-commercial (Recreational), International: Port operations and Ship movement
72	X	X	X	S	156.625		Non-commercial (Inter-ship only)
73	X	X	X	S	156.675		US: Port Operations, Canada: Commercial fishing only, International: Inter-ship, Port operations and Ship movement

VHF MARINE CHANNEL CHART						
CH	U	C	I	S/D	TX	RX	CHANNEL USE
74	X	X	X	S	156.725		US: Port Operations, Canada: Commercial fishing only, International: Inter-ship, Port operations and Ship movement
75	X	X	X	S	156.775		Port Operations (Inter-ship only) (1W)
76	X	X	X	S	156.825		Port Operations (Inter-ship only) (1W)
77	X	X		S	156.875		Port Operations (Inter-ship only) (1W)
77			X	S	156.875		Port Operations (Inter-ship only)
78			X	D	156.925	161.525	Public Correspondence (Marine Operator), Port operation, ship-movement
78A	X	X		S	156.925		Non-commercial (Recreational)
79			X	D	156.975	161.575	Port operation and Ship movement
79A	X	X		S	156.975		Commercial
80			X	D	157.025	161.625	Port operation, ship movement
80A	X	X		S	157.025		Commercial
81			X	D	157.075	161.675	Port operation, ship movement
81A	**X**			**S**	**157.075**		**U.S. Government Only - Environmental protection operations.**
81A		X		S	157.075		Canadian Coast Guard Only
82			X	D	157.125	161.725	Public Correspondence (Marine Operator), Port operation, ship movement
82A	**X**	**X**		**S**	**157.125**		**U.S. Government Only, Canadian Coast Guard Only**
83		X		D	157.175	161.775	Canadian Coast Guard Only
83			X	D	157.175	161.775	Public Correspondence (Marine Operator)
83A	**X**	**X**		**S**	**157.175**		**U.S. Government Only, Canadian Coast Guard Only**
84	X	X	X	D	157.225	161.825	Public Correspondence (Marine Operator)
85	X	X	X	D	157.275	161.875	Public Correspondence (Marine Operator)
86	X	X	X	D	157.325	161.925	Public Correspondence (Marine Operator)
87		X	X	S	157.375		Port operation, ship movement
87A	X			S	157.375		Public Correspondence (Marine Operator)
88		X	X	S	157.425		Port operation, ship movement
88A	X			S	157.425		Commercial, Inter-ship Only
WX01	X	X	X	D	- - -	162.550	Weather (receive only)
WX02	X	X	X	D	- - -	162.400	Weather (receive only)
WX03	X	X	X	D	- - -	162.475	Weather (receive only)
WX04	X	X	X	D	- - -	162.425	Weather (receive only)
WX05	X	X	X	D	- - -	162.450	Weather (receive only)
WX06	X	X	I	D	- - -	162.500	Weather (receive only)
WX07	X	X	X	D	- - -	162.525	Weather (receive only)
WX08	X	X	X	D	- - -	161.650	Weather (receive only)
WX09	X	X	X	D	- - -	161.775	Weather (receive only)
WX10	X	X	X	D	- - -	163.275	Weather (receive only)

NOTE: Simplex channels, 3A, 21A, 23A, 61A, 64A, 81A, 82A and 83A CANNOT be lawfully used by the general public in U.S.A. waters.

16 WARRANTY

Marine Products Limited Warranty

PLEASE NOTE

The following "Limited Warranty" is for valid for products that have been purchased in the United States and Canada. For limited Warranty details outside the United States, contact the dealer in your country.

STANDARD HORIZON (a division of YAESU U.S.A.) warrants, to the original purchaser only, each new Marine Communications Product ("Product") manufactured and/or supplied by STANDARD HORIZON against defects in materials and workmanship under normal use and service for a period of time from the date of purchase as follows:

Fixed Mount and Portable Transceivers
>   **1 year - if purchased before 01/01/91**
>   **3 years - if purchased between 01/01/91 and 01/01/94**
>   **3 years Waterproof - if purchased after 01/01/94**
Loud hailers
>   **1 year - if purchased before 01/01/91**
>   **3 years - if purchased after 01/01/91**
Associated Chargers
>   **1 year - if purchased before 01/01/91**
>   **3 years - if purchased after 01/01/91**

Associated Batteries - 1 year. Note: Batteries will be deemed deflective only if storage capacity drops below 80% of rated capacity or if leakage develops.

Associated Accessories - 1 year. Includes: Microphones/Handsets, External Speakers, Antennas, Carrying Accessories, Power Supplies, and Signaling Boards.

To receive warranty service, the purchaser must deliver the Product, transportation and insurance prepaid, to STANDARD HORIZON (a division of YAESU U.S.A.), Attention Marine repairs 6125 Phyllis Drive, Cypress, California 90630. Include proof of purchase indicating model, serial number, and date of purchase. STANDARD HORIZON will return the Product to the purchaser freight prepaid. Products purchased prior to January 1, 1991 will bear the STANDARD HORIZON warranty terms in effect prior to that date.

In the event of a defect, malfunction or failure of the Product during the warranty period, STANDARD HORIZON's liability for any breach of contract or any breach of express or implied warranties in connection with the sale

of Products shall be limited solely to repair or replacement, at its option, of the Product or part(s) therein which, upon examination by STANDARD HORIZON, appear to be defective or not up to factory specifications. STANDARD HORIZON may, at its option, repair or replace parts or subassemblies with new or reconditioned parts and subassemblies. Parts thus repaired or replaced are warranted for the balance of the original applicable warranty.

STANDARD HORIZON will not warrant installation, maintenance or service of the Products. In all instances, STANDARD HORIZON's liability for damages shall not exceed the purchase price of the defective Product.

This warranty only extends to Products sold within the 50 States of the United States of America and the District of Columbia.

STANDARD HORIZON will pay all labor to repair the product and replacement parts charges incurred in providing the warranty service except where purchaser abuse or other qualifying exceptions exist. The purchaser must pay any transportation expenses incurred in returning the Product to STANDARD HORIZON for service.

This limited warranty does not extend to any Product which has been subjected to misuse, neglect, accident, incorrect wiring by anyone other than STANDARD HORIZON, improper installation, or subjected to use in violation of instructions furnished by STANDARD HORIZON, nor does this warranty extend to Products on which the serial number has been removed, defaced, or changed. STANDARD HORIZON cannot be responsible in any way for ancillary equipment not furnished by STANDARD HORIZON which is attached to or used in connection with STANDARD HORIZON's Products, or for the operation of the Product with any ancillary equipment, and all such equipment is expressly excluded from this warranty. STANDARD HORIZON disclaims liability for range, coverage, or operation of the Product and ancillary equipment as a whole under this warranty. STANDARD HORIZON reserves the right to make changes or improvements in Products, during subsequent production, without incurring the obligation to install such changes or improvements on previously manufactured Products.

The implied warranties which the law imposes on the sale of this Product are expressly LIMITED, in duration, to the time period specified above. STANDARD HORIZON shall not be liable under any circumstances for consequential damages resulting from the use and operation of this Product, or from the breach of this LIMITED WARRANTY, any implied warranties, or any contract with STANDARD HORIZON. IN CONNECTION

WITH THE SALE OF ITS PRODUCTS, STANDARD HORIZON MAKES NO WARRANTIES, EXPRESS OR IMPLIED AS TO THE MERCHANT-ABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, EXCEPT AS EXPRESSLY SET FORTH HEREIN.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitation on how long an implied warranty lasts, so the above limitations or exclusions may not apply. This warranty gives specific legal rights, and there may be other rights which may vary from state to state.

ONLY PRODUCTS SOLD ON OR AFTER JANUARY 1, 1991 ARE COVERED UNDER THE TERMS OF THIS LIMITED WARRANTY.

ON-LINE WARRANTY REGISTRATION

THANK YOU for buying STANDARD HORIZON (a division of YAESU U.S.A.) products! We are confident your new radio will serve your needs for many years!

Please visit **www.standardhorizon.com** to register the **GX1200** Marine VHF. It should be noted that visiting the Web site from time to time may be beneficial to you, as new products are released they will appear on the STANDARD HORIZON Web site. Also a statement regarding product support should be added to the manual.

Product Support Inquiries

If you have any questions or comments regarding the use of the **GX1200**, you can visit the STANDARD HORIZON Web site to send an E-Mail or contact the Product Support team at 800-767-2450 M-F 7:00-5:00PST.

In addition to the warranty, STANDARD HORIZON includes a lifetime "flat rate" and "customer loyalty" programs to provide service after the warranty period has expired. If you wish to obtain the flat rate price for out-of-warranty repair, you must include the information on the Owner's Record with the unit when you return it to your Dealer or to STANDARD HORIZON.

Lifetime Flat Rate Service Program: For the original Owner only, for the lifetime of the unit, STANDARD HORIZON will repair the unit to original specifications.

Note: The flat rate amount is payable by the Owner only if STANDARD HORIZON or the STANDARD HORIZON Dealer determines that a repair is needed. After the repair, a 90-day warranty will be in effect from the date of return of the unit to the Owner.

This service program is not available for equipment which has failed as a result of neglect, accident, breakage, misuse, improper installation or modification, or water damage (depending on the product).

17 SPECIFICATIONS

Performance specifications are nominal, unless otherwise indicated, and are subject to change without notice.

17.1 GENERAL

Channels .... All USA, International and Canadian
Input Voltage... 13.8 VDC ±20%
Current Drain
    Standby .... 0.3 A
    Receive .... 1.0 A
    Transmit..5.5 A (Hi); 1.5 A (Lo)
Individual DSC Directory Memory 48
Group DSC Directory Memory... 20
DSC Log Memory (Transmitted).. 20
DSC Log Memory (Distress).. 20
DSC Log Memory (Received)... 38
Dimensions (W x H x D) .... 6.10" x 2.36" x 6.69"
                                                                                    (155 x 60 x 170 mm)
Flush-Mount Dimensions (W x H x D) ....5.15" x 2.00" x 6.69"
                                                                                    (131 x 51 x 170 mm)
Weight ....2.0 lb (920 g)

17.2 TRANSMITTER

Frequency Range...156.025 to 157.425 MHz
RF Output... 25 W (Hi); 1 W (Lo)
Conducted Spurious Emissions.................................... 80 dB (Hi); 66 dB (Lo)
Audio Response ....within +1/–3 of a 6 dB/octave
                                                    pre-emphasis characteristic at 300 to 3000 Hz
Audio Distortion ....5 %
Modulation .... 16K0G3E, for DSC 16K0G2B
Frequency Stability (–20°C to +50°C) ....±0.0003 %
FM Hum and Noise...50 dB

17.3 RECEIVER

Frequency Range ....156.050 to 163.275 MHz
Sensitivity
    12 dB SINAD .... 0.25 µV
    12 dB SINAD (70 CH Receiver) .... 0.25 µV
    Squelch Sensitivity (Threshold)... 0.20 µV
Modulation Acceptance Bandwidth...±7.5 kHz
Selectivity
    Spurious and Image Rejection ....–75 dB
    Intermodulation and Rejection at 12 dB SINAD .... –70 dB
Audio Output...4.5 W
Audio Response ....within + 1/–3 of a 6 dB/octave
                                 de-emphasis characteristic at 300 to 3000 Hz
Frequency Stability (-20°C to +50°C) ....±0.0003 %
Channel Spacing ....25 kHz
DSC Format .... ITU-R M.493
NMEA Input/Output..Output - DSC, DSE
                                   Input - GLL, GGA, RMC and GNS

17.4 GX1200 DIMENSIONS
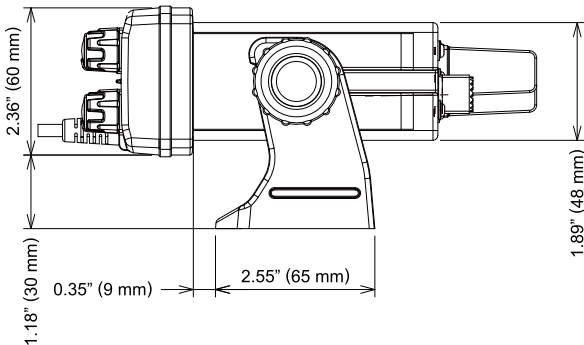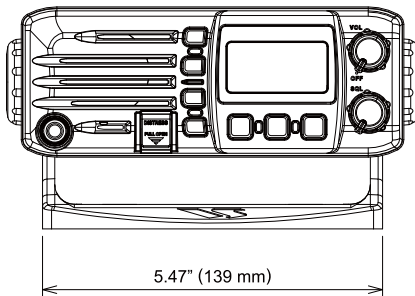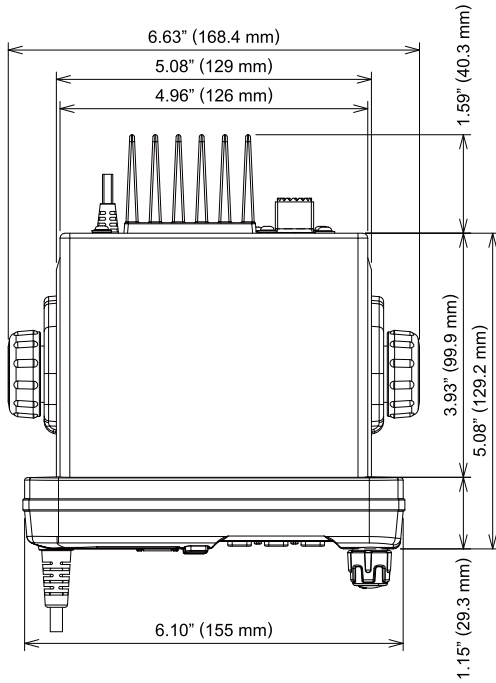
6.63" (168.4 mm)

5.08" (129 mm)

4.96" (126 mm)

1.59" (40.3 mm)

3.93" (99.9 mm)

5.08" (129.2 mm)

1.15" (29.3 mm)

6.10" (155 mm)

5.47" (139 mm)

2.36" (60 mm)

1.89" (48 mm)

1.18" (30 mm)

0.35" (9 mm)

2.55" (65 mm)

NOTE

NOTE

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NOTE

STANDARD HORIZON

STANDARD HORIZON

Nothing takes to water like Standard Horizon

YAESU USA
6125 Phyllis Drive, Cypress, California 90630.

E M 0 3 7 N 1 2 0