

THE APPLICANT HAS BEEN CAUTIONED AS TO THE FOLLOWING:

15.21 INFORMATION TO USER.

The users manual or instruction manual for an intentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

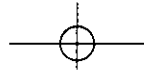
15.27(a) SPECIAL ACCESSORIES.

Equipment marketed to a consumer must be capable of complying with the necessary regulations in the configuration in which the equipment is marketed. Where special accessories, such as shielded cables and/or special connectors are required to enable an unintentional or intentional radiator to comply with the emission limits in this part, the equipment must be marketed with, i.e. shipped and sold with, those special accessories. However, in lieu of shipping or packaging the special accessories with the unintentional or intentional radiator, the responsible party may employ other methods of ensuring that the special accessories are provided to the consumer, without additional charge.

Information detailing any alternative method used to supply the special accessories for a grant of equipment authorization or retained in the verification records, as appropriate. The party responsible for the equipment, as detailed in § 2.909 of this chapter, shall ensure that these special accessories are provided with the equipment. The instruction manual for such devices shall include appropriate instructions on the first page of text concerned with the installation of the device that these special accessories must be used with the device. It is the responsibility of the user to use the needed special accessories supplied with the equipment.

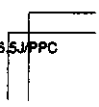
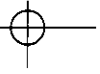
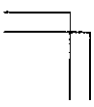
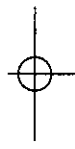
FCC/STATION

JAN 10 1999



Horizon
GX1260S INTREPID
25 Watts VHF/FM
Marine Transceiver

Owner's Manual



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 Communications Corp.

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.

1 GENERAL INFORMATION

1.1 INTRODUCTION

The Standard Communications Corp. (SCC) GX1260S is a VHF/FM transceiver designed for use in the frequency range of 156.025 to 163.275 MHz. It requires 13.8V for operation and has a switchable RF output power of 1 watt or 25 watts.

The transceiver is capable of intercom operation with the use of an optional CMP23 (remote-control speaker/microphone with display).

The transceiver 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. Weather channels can also be accessed immediately by pressing the WX key with channel selection.

Other features of the transceiver include: scanning, priority scanning,

1.2 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 16K0F3E, 16K0G2B
Frequency Range 156.025 to 163.275 MHz
FCC Type Number APV09981
Industry Canada Type Approval Pend

Additional FCC and Industry Canada data, including licensing requirements, are contained in the companion document titled OWNER'S MANUAL SUPPLEMENT. The document also contains charts for VHF channel assignments, transceiver procedures, maintenance, factory service information, and warranty data.

2.1 PACKING LIST

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

- GX1260S INTREPID Transceiver (White/Black)
- CMP349 (White/Black) Microphone (attached to the transceiver) and hanger kit
- Open-Frame Mounting Bracket and attaching hardware
- Spare Fuse (6 A, 250 V)
- Owner's Manual
- Owner's Manual Supplement
- Quick-Reference Card

2.2 OPTIONS

| | |
|-------------|------------------------------------|
| CMB16 | Flush-Mount Bracket |
| CMP23 | Remote-Access Microphone (RAM Mic) |
| CAW23 | Extension Cable for RAM Mic |
| 101S | Extension Speaker |
| 201S | Extension Speaker |
| 201SZ | Flush Mount Extension Speaker |

3 CONTROLS AND INDICATORS

NOTE

This section defines each control of the transceiver. See Figure 6 for location of controls. For detailed operating instructions refer to chapter 5 of this manual.

3.1 CONTROLS AND CONNECTIONS

① POWER SWITCH/VOLUME CONTROL

To turn the transceiver on press this knob, press and hold this knob until the LCD turn on. This knob turns the transceiver on and off and sets the audio volume. When the power is turned on, the transceiver is set to the last selected channel. To turn the transceiver off, press and hold this knob until the LCD turn off.

Secondary Use
When the transceiver is turned on while the SCAN and WX keys are held down, the internal microprocessor is reset. This clears the memory and all user-programmed settings, such as scan memory, priority scan assignments, and A/B channel assignments. This condition is known as the default condition, the same as when shipped from the factory. For a list of these defaults, see the section on resetting the Transceivers Microprocessor.

NOTE

Resetting the microprocessor will not ERASE DSC MMSID and Directory Call Waiting information

② SQUELCH CONTROL (SQL)

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

③ KEY PAD

16/9 Key

Immediately recalls channel 16 from any channel location. Holding down this key recalls channel 9.

Secondary use

Please see secondary use for the WX key and the MEM key.

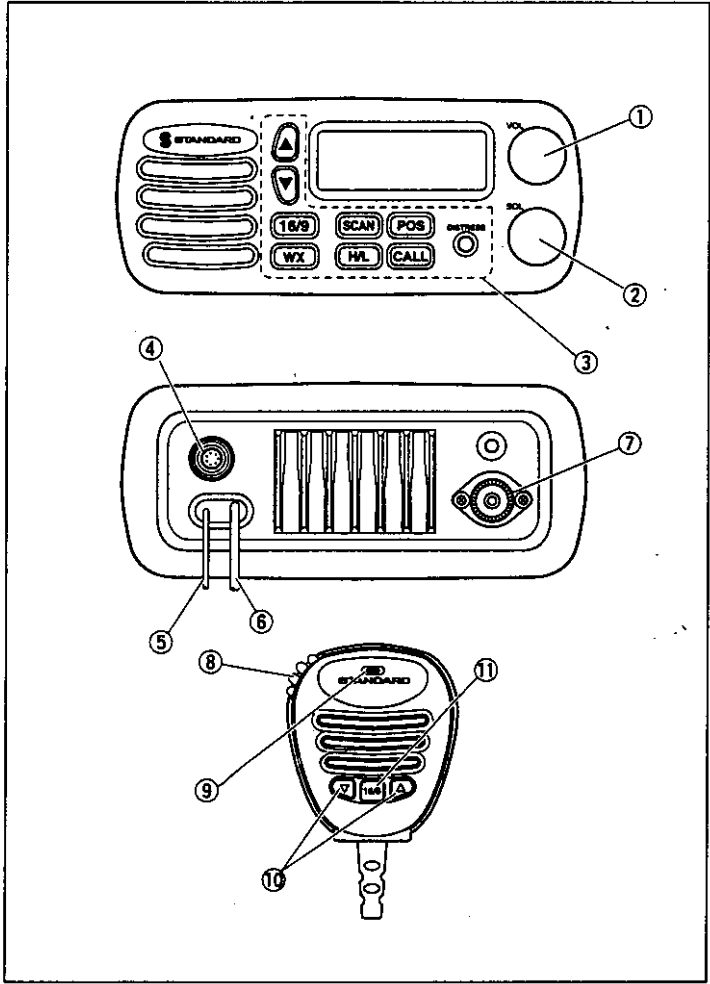


Figure 6. Controls and Connectors

WX Key

Immediately recalls a weather channel from any channel location.

Secondary use

1. Holding down the 16/9 key while pressing the WX key changes the mode from USA to International or Canadian.
2. Holding down the WX and SCAN key while turning the power on resets the microprocessor and erases scan channels from memory. This clears the memory and establishes the factory-set defaults. For a list of these defaults, see the section on Resetting the Transceiver's Microprocessor.

SCAN Key

Starts and stops scanning programmed channels.

IMPORTANT

The priority channel is CH16.

Secondary use

Memorizes the selected channel into the transceiver's scan memory for scanning. When pressed and held down again, it DELETES the channel from the scan memory.

DISTRESS Key

Press two times to send the distress call transmission using the DSC function. For operation, see the Send Distress Call operation.

CALL/SET Key

Selects DSC operation.

H/L Key

Toggles between high and low power. Does not operate on low power only and transmission-inhibited channels. When this key is pressed while the transceiver is on channel 13 or 67, the power will temporarily go high when the PTT is pressed. When released power setting reverts to low.

UP and DOWN Keys

Up and down keys are used to select channels and to select the item selection of many functions (DSC operation, etc.). The CH key on the microphone can also be used to select channels.



POS / IC key

1. Pressing this key, when connected to navigation receiver equipment, displays position data from the navigation equipment.
2. Press and hold down this key when the optional RAM-MIC is connected. Intercom operation will be possible between the radio and the RAM-MIC.

④ RAM MIC CONNECTOR

Connects the remote access microphone RAM MIC. Refer to "6 RAM MIC OPERATION (page **)" for the details.

⑤ ACCESSORY CONNECTION CABLE

Connects the radio to a GPS and a external speaker.

⑥ DC INPUT CABLE

Connects the radio to a DC power supply of 13.8V



⑦ ANTENNA JACK

Connects an antenna to the transceiver. Use a marine VHF antenna with an impedance of 50 ohms.

⑧ PTT (Push-To-Talk) SWITCH

Keys the transmitter when the transceiver is in radio mode. If the transceiver is in the intercom operation mode, it activates the microphone for the intercom.

⑨ MICROPHONE

Transmits the voice message.

⑩ CH KEY

This key has the same function as the UP and DOWN keys on the front panel of the transceiver. It can increase or decrease the channel numbers, depending on whether up or down arrow on the key is pressed.

⑪ 16/9 Key

Immediately recalls channel 16 from any channel location. Holding down this key recalls channel 9.

4.1 RECEPTION

1. After the transceiver has been installed, ensure that the power supply and antenna are properly connected.
2. Press the POWER SWITCH on.
3. Turn the SQUELCH CONTROL knob fully counterclockwise. This state is known as "squelch off".
4. Turn up the volume until noise or audio from the speaker is at a comfortable level.
5. Turn the squelch control knob until the random noise just disappears. This state is known as the "squelch threshold."
6. Press the UP or DOWN key to select the desired channel. Refer to the channel chart in the OWNER'S MANUAL SUPPLEMENT for available channels.
7. When a message is received, adjust the volume to the desired listening level. The "BUSY" indicator in the LCD is displayed indicating that the channel is being used.

4.2 TRANSMISSION

1. Perform steps 1 through 6 of RECEPTION.
2. Before transmitting, monitor the channel and ensure it is clear. **THIS IS AN FCC REQUIREMENT!**
3. Press the PTT (push-to-talk) switch. The TX indicator on the LCD is displayed.
4. Speak slowly and clearly into the microphone, hold the microphone about 1/2 inch away from your mouth.
5. When the transmission is finished, release the PTT switch.
6. Refer to the OWNER'S MANUAL SUPPLEMENT for standard transceiver operating procedures.

4.3 TRANSMIT TIME - OUT TIMER (TOT)

When the PTT switch on the microphone is held down, transmit time is limited to 5 minutes. This prevents unintentional transmissions. About 10 seconds before automatic transmitter shutdown, a warning beep will be heard from the speaker(s). The transceiver will then 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. Also note that the PTT switch is ineffective while the microphone is in its grounded hanger.

4.4 SIMPLEX/DUPLEX CHANNEL USE

Refer to the OWNER'S MANUAL SUPPLEMENT for instructions on use of simplex and duplex channels.

NOTE

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

4.5 USA, CANADA, AND INTERNATIONAL MODE

1. To change the modes, hold the 16/9 key and press the WX key. The mode changes from USA to International to Canada with each press of the WX key.
2. USA will be displayed on the LCD for USA mode, INTL will be displayed for International mode, and CAN will be displayed for Canadian mode.
3. Refer to the OWNERS MANUAL SUPPLEMENT for allocated channels in each mode.

4.6 WEATHER CHANNELS

1. To receive a weather channel, press the WX key from any channel. The transceiver will go to the last selected weather channel.
2. Press the UP or DOWN key on the microphone to go to another weather channel.
3. To exit from the weather channels, press the WX key. The transceiver returns to the channel it was on prior to a weather channel.

4.7 NORMAL SCANNING

1. Adjust the SQUELCH CONTROL just until background noise disappears.
2. Select a desired channel to be scanned using the UP or DOWN key. Press and hold down the SCAN key until MEM appears in the LCD which to program the channel into the transceivers memory.
3. Repeat step 2 for all the desired channels to be scanned.
4. To start scanning, press the SCAN key. Scanning will proceed from the lowest to the highest programmed channel number and will stop on a channel when a transmission is received. During the scanning, the dot matrix area of the LCD display will show MEM-SCAN which are blink and 7 segment of LCD will show the last busy channel.
5. To stop scanning, press the SCAN, 16/9, WX, or PTT key.
6. To DELETE a channel from the transceiver's memory, press and hold down the SCAN key again until MEM disappears in the LCD while the memorized channel is displayed in the LCD.

4.8 PRIORITY SCANNING

1. The priority channel is already set to channel 16.
2. For priority scanning, hold down the SCAN key until PRI-SCAN appears in the LCD during memory scanning. Scanning will proceed between the memorized channels and the priority channel. The priority channel will be scanned after each programmed channel.

4.9 WEATHER ALERT

In the event of extreme weather disturbances, such as storms and hurricanes, 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 weather channels. The transceiver is capable of receiving this alert if the following is performed:

1. Program weather channels into the transceivers memory for scanning. Follow the same procedure as for regular channels under Section 5.7
2. Press the SCAN key once to start memory scanning or hold down the SCAN key during memory scanning to start priority scanning.
3. The programmed weather channels will be scanned along with the regular-programmed channels. However, scanning will not stop on a normal weather broadcast unless a NOAA alert is received.
4. When an alert is received on a weather channel, scanning will stop and the transceiver will emit a loud intermittent beep to alert the user of a NOAA broadcast.
5. Press the WX key to stop the alert tone and receive the weather report.

NOTE

If the WX key is not pressed during the alert tone is been emitting, the alert tone will be stopped for 5 minutes and then weather report will be received.

4.10 POSITION INDICATION

Your position can be indicated as the received signal of the GPS navigation receiver if connected to navigator equipment.

1. Press the POS key.



JUN 15 08:45P
35.55 N
138.28 W 21 A

2. To return to the previous indication, press the POS key.

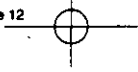
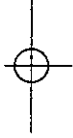


4.11 RESETTING THE TRANSCEIVER'S MICROPROCESSOR

IMPORTANT

DSC information will not be lost when following the procedure:
Resetting the microprocessor restores the initial, factory supplied conditions in the transceiver. These are called the default conditions.
To reset the microprocessor, first turn the transceiver off. Then while pressing the WX and SCAN keys, turn the transceiver on. The default conditions are:

- No channel numbers are in SCAN memory.
- Channel 16 is the priority channel.
- Channel 16 will be selected when the transceiver is turned on.
- WX channel 01 will be recalled when the WX key is pressed.
- Channels A and B are unassigned.



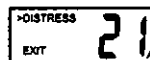
5 DIGITAL SELECTIVE CALLING

5.1 SEND DISTRESS CALL

The distress call automatically includes the vessel's DSC MMSID and Lat/Lon position. The vessel's position can be sent only if the transceiver is properly connected to an operating navigation receiver.

1. Press the DISTRESS key twice.

The Emergency display will appear. If the key is pressed once, the distress signal will not be sent. The distress signal can be sent as follows; Press and hold down the DISTRESS key for 5 seconds or more.



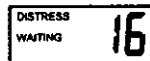
DISTRESS
EXIT 21

2. When the distress signal is sent, the dot-matrix area of LCD will show;

After message has been sent, the Distress Alarm will be sounded.



XMIT HI USA 21



DISTRESS
WAITING 16

3. After message has been sent, the transceiver shadow watches between CH16 and CH70 until an acknowledgment signal is received.

4. When no acknowledgment is received, the distress call is repeated in 4 minute intervals until an acknowledgment is received.

5. To cancel this, turn the power OFF then ON again.



DISTRESS
D987254321
RECEIVED ACK 16

6. When a distress acknowledgment is received, an emergency alarm sounds (ambulance) and channel 16 is automatically selected.

7. To cancel the alarm, press any key.

NOTE

When a GPS receiver NMEA output is connected, the vessel's position is automatically transmitted with the distress call.

5.2 SEND INDIVIDUAL CALL

The individual call function allows you to transmit a DSC signal to a specific party only.

1. Select the traffic channel for voice communication.



2. Press the CALL/SET key.
The transceiver will beep, and the DSC CALLING menu will appear.

3. Press the UP or DOWN key to select the individual call.
To cancel, select EXIT with the UP or DOWN key.



4. Press the CALL/SET key.
The transceiver will beep, and the name will appear as the stored individual call member.



5. Press the UP or DOWN key to select the individual call member.

6. Press CALL/SET key to transmit the individual DSC signal.



7. After INDIVIDUAL CALL is transmitted, the transceiver will wait 5 seconds for the acknowledgment. If the reply signal is not received, then the transceiver will transmit again.



8. After the second INDIVIDUAL CALL is transmitted, if the reply signal is not received, the dot matrix area of the LCD will display ">SEND" as in the illustration at right.



9. When an individual call acknowledgment "able to comply" is received, the established channel is automatically selected.



10. When an individual call acknowledgment with "unable to comply" is received, the established channel is automatically selected.

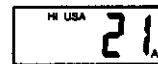


11. To cancel this, press any key.
This procedure can be also canceled as follows:
Select the "EXIT" using the down key and press the CALL/SET key.

5.3 ALL SHIP CALL

The All Ships Call function allows contact to be established with other vessel stations without having their ID in the calling ships directory. Also, priority for the call can be designated as Urgency, Safety or Routine.

1. Select the traffic channel (for voice communication).



2. Press the CALL/SET key. The transceiver will beep, and the DSC CALLING menu will appear.



3. Press the UP or DOWN key to select the all ships call.



4. Press the CALL/SET key.
To cancel this, press the UP or DOWN key to select EXIT.



5. Press the UP or DOWN key to select the calling item. (EX: URGENCY is selected)



6. Press CALL/SET key to transmit the all ships DSC signal.



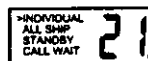
7. After ALL SHIPS CALL is transmitted, the transceiver will wait on the traffic channel.



5.5 DSC STANDBY

The DSC Standby function allows the transceiver to reply to DSC calls with the Unattended message and log the calls for return at a more convenient time. When set to the DSC Standby mode, voice traffic may still be monitored on any selected channel.

1. Press the CALL/SET key.
The transceiver will beep, and the DSC CALLING menu will appear.



INDIVIDUAL
ALL SHIP
STANDBY
CALL WAIT 21

2. Press the UP or DOWN key to select the STANDBY mode.



INDIVIDUAL
ALL SHIP
STANDBY
CALL WAIT 21

3. Press the CALL/SET key.



DSC STANDBY
UNATTENDED 21

4. When an individual DSC call is received, the radio will respond with the unattended message which an operator cannot answer to the caller.
DSC call will be logged into the memory.
5. To cancel this, press any key.

5.6 CALL WAITING DIRECTORY

The DSC Call Waiting directory logs 10 received distress calls, and logs 20 individual calls that are received and not answered within 5 minutes, while the radio is set on the DSC Standby function. Calls will be logged while busy with other communications as long as the transmitter is not keyed at the time of the call. If the call is answered within 5 minutes the call will not be logged. When a call is logged, a message will appear in the Primary mode display.

NOTE

When DISTRESS CALL is received, this call will be logged on call waiting directory.

5.6.1 Operation of Distress Call Waiting


1. Press the CALL/SET key.
The transceiver will beep, and the DSC CALLING menu will appear.
2. Press the UP or DOWN key to select the CALL WAIT mode.
3. Press the CALL/SET key.
4. Press the UP or DOWN key to select the DSC CALLING item. (EX: DISTRESS is selected.)
5. Press the CALL/SET key to display the log data which was received last.
6. Press the UP or DOWN key to select another log data.



>INDIVIDUAL
ALL SHIP
STANDBY
CALL WAIT 21



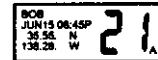
INDIVIDUAL
ALL SHIP
STANDBY
>CALL WAIT 21



CALL WAIT
>DISTRESS
INDIVIDUAL
EXIT 21



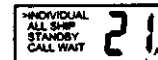
CALL WAIT
>DISTRESS
INDIVIDUAL
EXIT 21



BOB
JUN15 08:45P
36.56 N
138.28 W 21

5.6.2 Operation of Individual Call Waiting

1. Press the CALL/SET key.
The transceiver will beep, and the DSC CALLING menu will appear.
2. Press the UP or DOWN key to select the CALL WAIT mode.
3. Press the CALL/SET key.
4. Press the UP or DOWN key to select the DSC CALLING item. (EX: INDIVIDUAL is selected.)
5. Press the CALL/SET key to display the log data which was received last.
6. Press the UP or DOWN key to select another log data.



>INDIVIDUAL
ALL SHIP
STANDBY
CALL WAIT 21



INDIVIDUAL
ALL SHIP
STANDBY
>CALL WAIT 21



CALL WAIT
>DISTRESS
INDIVIDUAL
EXIT 21



CALL WAIT
DISTRESS
>INDIVIDUAL
EXIT 21



JUN15 08:45P
#087854321
36.56 N
138.28 W 21

5.7 RECEIVING DSC CALLS

Several types of DSC transmissions can be received. The required action depends on the particular DSC type as outlined in the following examples.

NOTE

When the radio receives on working channel or transmits on working channel, DSC calls will not be received.

5.7.1 Receiving a distress call

1. A distress call is received.

| | |
|--|----|
| DISTRESS ID366911111 35.88 N 138.20 W | 21 |
|--|----|

2. Emergency alarm sounds.
Then channel 16 is automatically selected.

| | |
|--|----|
| DISTRESS ID366911111 35.88 N 138.20 W | 16 |
|--|----|

3. Press any key to stop the alarm.

NOTE

You must continue monitoring channel 16 as a coast station may require assistance in any rescue attempt.

5.7.2 Receiving a distress relay call

1. A distress relay call is received.

| | |
|--|----|
| DISTRESS RLY ID366911111 35.88 N 138.20 W | 21 |
|--|----|

2. Emergency alarm sounds.
Then channel 16 is automatically selected.

| | |
|--|----|
| DISTRESS RLY ID366911111 35.88 N 138.20 W | 16 |
|--|----|

3. Press any key to stop the alarm.

NOTE

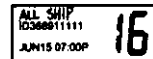
You must continue monitoring channel 16 as a coast station may require assistance in any rescue attempt.

5.7.3 Receiving an all ships call

1. An all ships call is received.



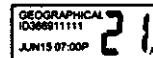
2. Emergency alarm sounds (different than DISTRESS).
Then channel 16 is automatically selected.



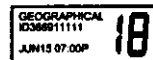
3. Press any key to stop the alarm.
4. Monitor channel 16 or traffic channel until the URGENCY communication has completed.

5.7.4 Receiving a geographical area call

1. A geographical call is received.



2. Emergency alarm sounds (different than DISTRESS). Then requested channel from the other ship is automatically selected.



3. Press any key to stop the alarm.
4. Monitor the traffic channel for an announcement from the calling ship.

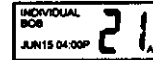
NOTE

If the navigation receiver is not connected, this operation is not available.

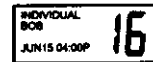
5.7.5 Receiving an individual call

When receiving an individual call, an acknowledgment must be sent back to the calling station.

1. An individual call is received.



3. A calling alarm sounds.
Then requested channel from the calling station is automatically selected.



4. Press any key to stop the alarm.
5. Monitor the selected channel for an announcement from the calling ship.

6. DSC SETUP MODE / RADIO SETUP MODE

6.1 SETUP

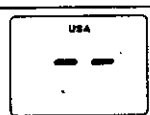
1. Press and hold down the CALL/SET key until the SETUP menu will appear.



2. To select the items, press the UP or DOWN key.

NOTE

The RAM MIC CMP23 cannot change the SETUP menu. The SETUP menu is displayed in the display of the CMP23 as in the illustration at right.



6.2 LAMP ADJUSTING

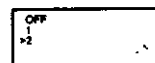
1. Select the LAMP ADJUST in the SETUP menu with the UP or DOWN key.



2. Press the CALL/SET key.
The lamp adjusting menu will appear.



3. Press the UP or DOWN key to select the desired level.
When OFF is selected, the lamp is extinguished.
When 2 is selected, the lamp is brightest.



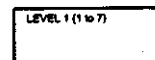
4. Press the CALL/SET key to store the selected level.
The LCD display will return to the SETUP menu.

6.3 LCD CONTRAST

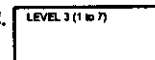
1. Select the CONTRAST in the SETUP menu with the UP or DOWN key.



2. Press the CALL/SET key.
The contrast setting menu will appear.



3. Press the UP or DOWN key to select the desired level.
The contrast is brighter as the selected level increases.



4. Press the CALL/SET key to store the selected level.
The LCD display will return to the SETUP menu.

6.4 INDIVIDUAL DIRECTORY SETUP

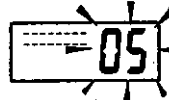
1. Select the INDIVI DIR in the SETUP menu with the UP or DOWN key.



2. Press the CALL/SET key.
The individual directory setup menu will appear.
The address number blinks until storing the address number.



3. Press the UP or DOWN key to set the desired address number.
The address number can be set from 01 to 30.



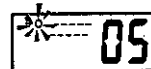
4. Press the CALL/SET key to store the address number.
The address number is stored and the first letter blinks.



5. Press the UP or DOWN key to set the desired letter.
The blinking letter can be set.
The first line is set as a station name. The second line is set as a MMISD.



6. Press the CALL/SET key to store the address number.
The blinking letter is stored, and the next letter blinks.
A line can be setup to 9 letters. If you set less than 8 letters, you enter the space as a rest letter.



7. Repeat steps 5 and 6 to set the station name and MMISD.

When all letters are stored, the individual directory setup menu will be changed as in the illustration at right.



8. Select the NEXT with the UP or DOWN key and press the CALL/SET key, if you want to set the another individual directory.
When you select NEXT, repeat steps 3 to 7.

9. Select the EXIT with the UP or DOWN key and press the CALL/SET key, if you want to quit this procedure.

6.5 KEY BEEPS TURN ON OR OFF

1. Select the KEY BEEP in the SETUP menu with the UP or DOWN key.



2. Press the CALL/SET key.
The key beeps setting menu will appear.



3. Press the UP or DOWN key to select the on or off.

3. Press the CALL/SET key to set the key beep condition.
The LCD display will return to the SETUP menu.

NOTE

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

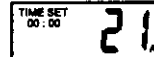
6.6 TIME OFFSET

This item sets the time difference between local time and UTC.

1. Select the TIME OFFSET in the SETUP menu with the UP or DOWN key.

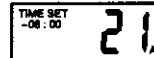


2. Press the CALL/SET key.
The time offset menu will appear.



3. Press the UP or DOWN key to select offset time from UTC.

If 00:00 is assigned, the time is the same as UTC.
(UTC: Universal Time Coordinated)



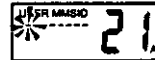
4. Press the CALL/SET key to store the offset time.
The LCD display will return to the SETUP menu.

6.7 USER MMSID INPUT

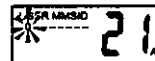
1. Select the USER MMSID in the SETUP menu with the UP or DOWN key.



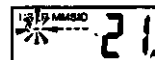
2. Press the CALL/SET key.
The user MMSID menu will appear, and the first letter will blink.



3. Press the UP or DOWN key to set the number (0 to 9).



4. Press CALL/SET key to store the set number.
The blinking number is stored, and next letter will blink.



5. Repeat steps 3 and 4 to set your MMSID.
When all numbers are stored, the MMSID setup menu will be changed as in the illustration at right.



6. Press and hold down the CALL/SET key to store your MMSID.

NOTE

User MMSID can be input only 2 times. So if the user selects the USER MMSID SETUP MODE, then enters the MMSID number, the radio will show:



If the optional RAM Mic (CMP23) is connected to the remote microphone connector on the transceiver's rear panel, then the transceiver can use the remote control operation except a few functions. The remote control has a maximum range of 50 feet (15 m). The intercom operation can be used between the RAM Mic and the transceiver.

7.1 RAM MIC CONTROLS AND CONNECTIONS

POWER SWITCH (PWR)

Turns the transceiver on and off.

Press and hold down this switch for half a second or more to turn the power on. Press and hold down this switch for half a second or more to turn the power off.

SQUELCH KEY (SQL)

Activates the squelch adjusting mode.

Press this key to activate the squelch adjusting mode. Press the ▲ or ▼ key to adjust the squelch.

Sets the point at which random noise on the channel does not activate the audio circuits but a received signal does. This point is called the "squelch threshold". Further adjustment of the squelch control by pressing the ▲ key will degrade the reception of wanted transmissions.

When the ▼ key is pressed and held down for 1 second or more, the squelch is turned off.

VOLUME KEY (VOL)

Activates the volume adjusting mode.

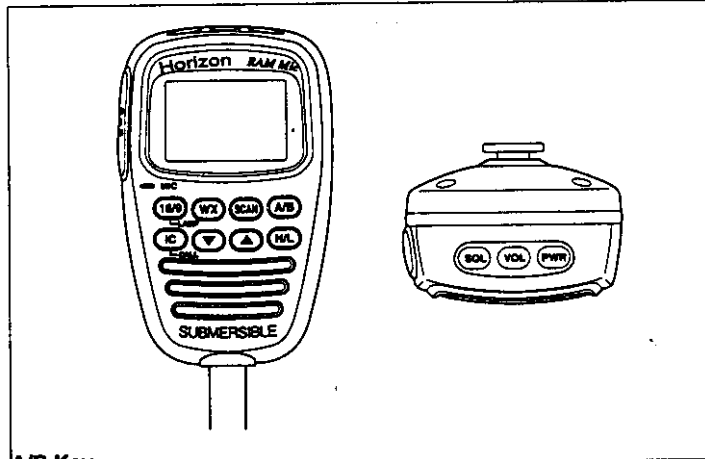
Press this key to activate the volume adjusting mode. Press the ▲ or ▼ key to adjust the volume.

PTT (Push-To-Talk) SWITCH

Activates transmission.

16/9 KEY

Immediately recalls channel 16 from any channel location. Hold down this key for 1 second or more to recall channel 9. Recalls the previous channel when the 16/9 key is pressed again. When holding down the 16/9 key while pressing the WX key, the mode toggles between USA, International and Canadian.



A/B Key

Immediately recalls two user assigned channels from any channel.

IC Key

Activates the intercom mode between the RAM Mic and the transceiver. Refer to section 6.3 for details of operation.

WX KEY

Immediately recalls a weather channel from any channel location. Recalls the previous channel when WX key is pressed again.

Secondary use

When holding down the 16/9 key while pressing the WX key, the mode toggles between USA to International and Canadian.

SCAN KEY

Starts scanning programmed channels. Stops the transceiver from scanning when pressed during the scan.

Hold down the SCAN key for 1 second or more to program the scan memory.

The RAM Mic scan operation is dependent on the transceiver scan selection.

Example: If the transceiver is in normal scan mode, then the RAM Mic is in normal scan mode. If the transceiver is in Pscan mode, then the RAM mic is in Pscan mode.

DOWN KEY (▼)

Selects the desired channel and adjusts the volume and squelch levels. Each press decreases the channel number, volume level and squelch level. When held down, the channels or levels decrease continuously.

UP KEY (▲)

Selects the desired channel and adjusts the volume and squelch levels. Each press increases the channel number, volume level, and squelch level. When held down, the channels or levels increase continuously.

Secondary use

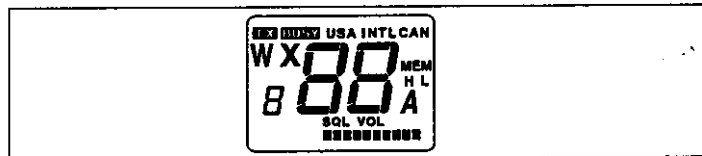
When holding down the 16/9 key while pressing this key, changes the brightness (3 levels) of the back light for LCD.

When holding down the H/L key while pressing this key, turns the scrambler on. Press this key again to turn the scrambler off.

H/L KEY

Toggles between high and low power. To change from low power to high power on Canadian channel 13, USA channel 13 or 67, press and release this key and hold down the PTT switch. High power setting is cancelled after transmitting on these channels.

7.2 INDICATORS



Channel Display

Displays the operating channel in both transmission and reception mode.

A Indicator

A simplex channel in USA or Canadian mode whose counterpart in the International mode is a duplex channel.

TX/ BUSY Indicator

"TX" is displayed in transmitting mode. "BUSY" is displayed in receiving mode.

USA/ INTL/ CAN Indicator

The mode of operation. "USA" indicates USA mode. "INTL" indicates International mode and "CAN" indicates Canadian mode.

WX Indicator

A weather channel.

MEM Indicator

The channel is in the transceiver's scan memory.

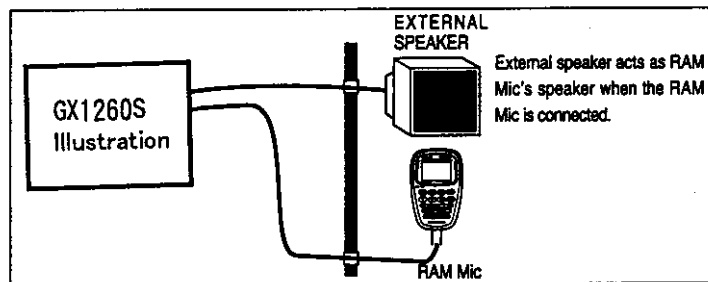
H/L Indicator

"H" is high power. "L" is low power. Blank is a reception only channel.

SQL/VOL Indicator

"SQL" is squelch adjusting mode. "VOL" is volume adjusting mode.

7.3 INTERCOM OPERATION

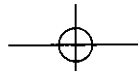


7.3.1 Communication

1. Press the IC key in the radio mode. The mode is changed to the INTERCOM mode. If the IC key is pressed again the mode will revert to radio mode.
2. "IC" is displayed on both the transceiver and RAM Mic when the intercom operation is activated.
3. Press the PTT switch. The "TX" indicator is displayed.

NOTE

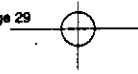
A warning beep is emitted when the RAM Mic PTT switch is pressed while the transceiver microphone's PTT switch is pressed.



4. Speak slowly and clearly into the microphone, hold the microphone about 1/2 inch away from your mouth.
5. When finished, release the PTT switch.

7.3.2 Calling

1. Hold down the IC key in the intercom operation for 1 second or more. A calling beep is emitted twice from the transceiver speaker.



8.1 FREQUENCY AND DEVIATION TESTS

FCC Regulations require that the radio's deviation and frequency be tested before initial installation or operation. This test should be performed by a Certified Marine Technician.

8.2 LOCATION

1. The radio can be mounted at any angle. Choose a mounting location that:
 - is far enough from any compass to avoid erroneous compass reading due to the speaker magnet
 - provides protection from sea spray and rain
 - 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
 - antenna can be mounted at least 3 feet from radio

8.3 ELECTRICAL CONNECTIONS

CAUTION

Improper 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 5):

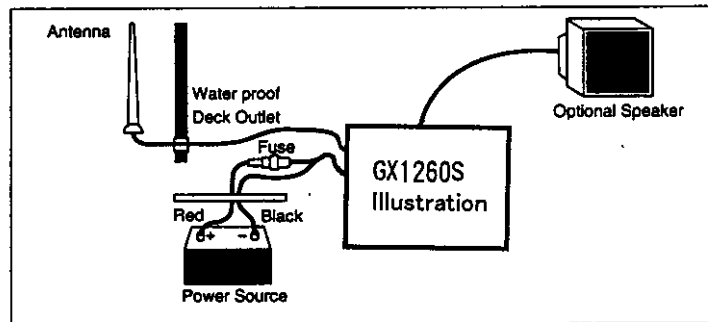


Figure 5. General Installation

1. Mount the antenna at least 3 feet away from the radio. At the rear of the radio, connect the antenna cable. It must have an SO-239 connector. RG-8/U coaxial cable must be used if the antenna is 25 feet or more from the radio. RG58 cable can be used for distances less than 25 feet.
2. Connect the red power cord to a 13.8 VDC \pm 20% power source. Connect the black power cord to negative ground.
3. If an optional remote extension speaker is to be used, connect it at this time. Connect the RCA phono plug to the external speaker jack of the transceiver.
4. It is advisable to have a Certified Marine Technician check the power output and the standing wave ratio of the antenna after installation.

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

In the unlikely event of serious problems, please contact your SCC Dealer or our repair facility. Address and phone numbers for this facility, as well as warranty information, are contained in your Owner's Manual Supplement.

9.1 REPLACEMENT PARTS

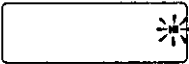
Occasionally an owner needs a replacement mounting bracket or knob. These can be ordered from our Parts Department by writing or calling:

Standard Communications Corp. Parts Department
 P.O. Box 92151
 Los Angeles, CA 90009-2151
 Telephone 800-366-8431

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

- Microphone, White (CMP847W+)
- Microphone, Black (CMP847B+)
- Extra Microphone Connector Cover
- Standard Mounting Bracket, White
- Standard Mounting Bracket, Black
- Standard Mounting Bracket Knob, White
- Standard Mounting Bracket Knob, Black
- Volume Control Knob
- Squelch Control Knob

9.2 TROUBLESHOOTING CHART

| TROUBLESHOOTING CHART | | |
|---|--|--|
| SYMPTOM | PROBABLE CAUSE | REMEDY |
| Transceiver fails to power up. | No DC voltage to the transceiver, or blown fuse. | Check power cable for DC voltage, or replace fuse (6A 250V). |
| Transceiver blows fuse when connected to power supply. | Reversed power wires. | Make sure the red wire is connected to the positive battery post and the black wire is connected to the negative. If fuse still blows, contact your SCC 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. |
| External speaker plug does not fit into jack. | Incorrect plug. | The EXT SPKR jack will accept only RCA phono plugs. |
| Receiving stations report low transmit power, even with transceiver set to HI power. | Antenna. | Have antenna checked or test the transceiver with another antenna. If problem persists, contact your SCC Dealer. SCC for servicing. |
| "HI" is blinking when the power on is turned on.  | The power supply voltage is too high. | Confirm that the connected power supply voltage is not 24 volts. Confirm that the generator has not malfunctioned. |

10 SPECIFICATIONS

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

10.1 GENERAL

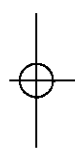
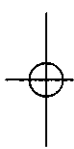
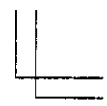
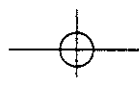
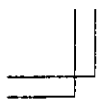
| | |
|---------------------------|----------------------------------|
| Frequency Range | 155.025 to 163.275 MHz |
| Channels | 65 total: 55 marine + 10 weather |
| Input Voltage | 13.8 VDC +/-20% |
| Current Drain | |
| Standby | 0.5A |
| Receive | 1.5A |
| Transmit | 6A (Hi); 1.7A (Lo) |
| Dimensions (inches) | 2.8H x 6.5W x 7.1 D |
| | 70 x 164 x 181 mm |
| Weight | 2.1 Lb. (0.97 kg) |

10.2 TRANSMITTER

| | |
|---|--|
| RF Output | 25 W (Hi); 1 W (Lo) |
| Conducted Spurious Emissions | 65 dB (Hi); 50 dB (Lo) |
| Audio Response | within +/-8 of a 6 dB/octave pre-emphasis characteristic at 300 to 3000 Hz |
| Audio Distortion | 5 % |
| Modulation | 16K0F3E, for DSC 16K0G2B |
| Frequency Stability (-20° to +50°C) | +/- 0.0005% |
| FM Hum and Noise | 40 dB |

10.3 RECEIVER

| | |
|--|--|
| Sensitivity: | |
| 20 dB Quieting | 0.40 µV |
| 12 dB SINAD | 0.35 µV |
| Squelch Sensitivity (Threshold) | 0.13 µV |
| Modulation Acceptance Bandwidth | ± 7.5 kHz |
| Selectivity: | |
| Spurious and Image Rejection | - 70 dB |
| Intermodulation and Rejection at 12 dB SINAD | - 70 dB |
| Audio Output | 4 W |
| Audio Response | within + 12/-8 of a 6 dB/octave characteristic at 300 to 3000 Hz |
| Frequency Stability (-20° to +50°C) | ±0.001 % |
| Channel Spacing | 25 kHz |



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