

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.



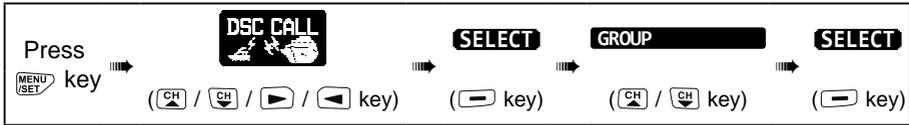
1. Begin by entering a name for the Group. Press the **[SELECT]** soft key, then select “ADD” with the **CH▼/CH▲** key.
2. Press the **[SELECT]** soft key.
3. Press the **CH▼/CH▲** key to scroll through the first letter of the name of the group you want to reference in the directory.
4. Press the **[SELECT]** soft key to store the first letter in the name and step to the next letter to the right.
5. Repeat steps 3 and 4 until the name is complete. The name can consist of up to eleven characters, if you do not use all eleven characters, select “→” to move to the next space. This method can also be used to enter a blank space in the name.



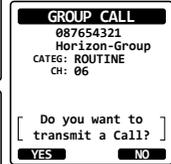
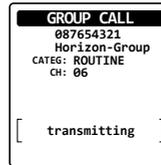
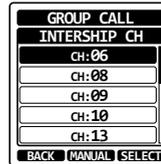
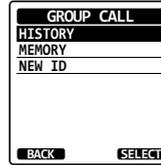
- If a mistake was made entering in the name, press the **CH▼/CH▲/◀/▶** key to select “←” or “→”, press the **[SELECT]** soft key until the wrong character is selected, then perform steps 3 and 4.
6. After the eleventh letter or space has been entered, press the **[FINISH]** soft key to advance to the group MMSI number entry.
 7. Press the **CH▼/CH▲** key to select the second number of the MMSI (nine digits: the first digit is permanently set to “0”) of the group you want to contact, then press the **[SELECT]** soft key to step to the next number. Repeat this procedure until all eight spaces of the MMSI number are entered. If a mistake was made entering in the MMSI number, press the **CH▼/CH▲/◀/▶** key to select “←” or “→”, press the **[SELECT]** soft key until the wrong character is selected, then perform step 7.
 8. After the ninth digit has been entered, press the **[FINISH]** soft key to confirm.
 9. To store the data, select “SAVE”, then press the **[SELECT]** soft key.
 10. To enter another group address, repeat steps 2 through 9.
 11. Press the **CLR** key to return to radio operation.

11.6.2 Transmitting a Group Call

Group Call using the Group Directory

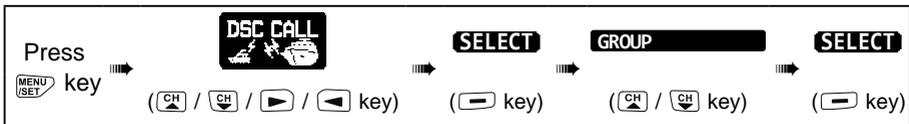


1. Press the **CH▼/CH▲** key to select “HISTORY” or “MEMORY”.
2. Press the **[SELECT]** soft key, then press the **CH▼/CH▲** key to select a group you want to contact.
3. Press the **[SELECT]** soft key, press the **CH▼/CH▲** key to select the operating channel you want to communicate on, then press the **[SELECT]** soft key. To select an operating channels from all the voice channels, press the **[MANUAL]** soft key.
4. Press the **[YES]** soft key to transmit the group call signal.
5. When the group call signal is sent, the display will be as shown in the illustration at the right.
6. After the group call is transmitted, all the radios in the group will switch to the designated channel.
7. Listen to the channel to make sure it is not busy, then press the **PTT** button and call the other vessels you desire to communicate with.

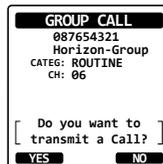
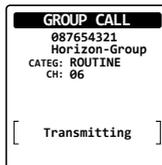
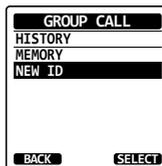


Group Call by Manually Entering an MMSI

This feature allows contacting a group of vessels by manually entering their group MMSI number.

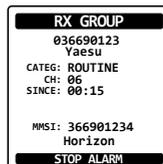


1. Select "NEW ID" with the **CH▼/CH▲** key, then press the **[SELECT]** soft key.
2. Press the **CH▼/CH▲** key to select the first number of the MMSI (nine digits: the first digit is permanently set to "0") that you want to contact, then press the **[SELECT]** soft key to step to the next number.
3. Repeat step 2 to set the MMSI number. If a mistake was made entering in the MMSI number, press the **CH▼/CH▲/◀/▶** key to select "←" or "→", press the **[SELECT]** soft key until the wrong character is selected, then perform step 2.
4. When the MMSI number is complete, press the **[FINISH]** soft key.
5. Press the **CH▼/CH▲** key to select the operating channel you want to communicate on, then press the **[SELECT]** soft key. To select an operating channel from all the voice channels, press the **[MANUAL]** 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 designated channel.
8. Listen to the channel to make sure it is not busy, then press the **PTT** button and talk into the microphone to communicate the message to the group of vessels.



11.6.3 Receiving a Group Call

1. When a group call is received, the **HX890** will sound a ringing alarm.
2. The display will show the group MMSI number.
3. Press any key to stop the alarm.
4. Monitor the channel and listen for the station calling the group with a message.



On the display you will notice 3 soft key selections. These selections are described below:

[ACCEPT]: Press this key to accept the group call and to switch to the requested channel.

[PAUSE]: Press this key to temporarily disable automatically switching to the requested channel.

[QUIT]: Press this key to stop the automatic channel switching and revert to the last selected working channel.

5. If you want to respond, monitor the channel to make sure it is clear, then press the **PTT** button and talk into the microphone to the group of vessels.
6. Press the **[QUIT]** soft key to return to radio operation.

Note: If a key is not pressed within 30 seconds the radio will automatically return to normal radio operation.



NOTE

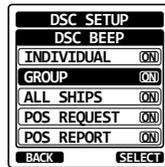
When there is an unread group call, the “✉” icon will appear on the display. You may review the unread group call from the DSC log, refer to the section “11.11.3 Reviewing Other Logged Calls”.

11.6.4 Setting up the Group Call Ringer

The **HX890** group call ringer may be set to ON or OFF with the DSC SETUP Menu:



1. Press the **CH▼/CH▲** key to select “GROUP”, then press the **[ENTER]** soft key.
2. Press the **CH▼/CH▲** key to select “OFF”.
3. Press the **[ENTER]** soft key to store the selected setting.



4. Press the **CLR** key to return the transceiver to normal operation.

To re-enable the ringer tone, repeat the above procedure, pressing the **CH▼/CH▲** key to select “ON” in step 7 above.

11.7 POSITION REQUEST

Advancements in the DSC system have made it possible to receive position request calls from other vessels.

NOTE

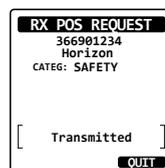
To respond to a position request, the vessel must have an operating GPS receiver connected to its DSC radio and must not have its radio set to deny position requests.

11.7.1 Receiving a Position Request

When a Position Request Call is received from another vessel, a ringing alarm will sound. Operation of this transceiver function differs, depending on the "POSITION REPLY" setting in the "DSC SETUP" menu. Refer to section "11.7.3 Setting up Position Reply".

Automatically reply:

1. When a position request call is received from another vessel, a ringing sound will be produced. Then the requested position coordinates are transmitted automatically to the vessel requesting your vessels position.
2. To exit from Position Request display, press the **[QUIT]** soft key.



Manually reply:

1. When a position request call is received from another vessel, a ringing sound will be produced, and the display will be as shown in the illustration at the right.
2. Press any key to stop the alarm.
3. To send your vessel's position to the requesting vessel, press the **[REPLY]** soft key. Or to exit from position request display, press the **[QUIT]** soft key.
4. Press the **[QUIT]** soft key to return to the channel display.



NOTE

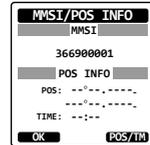
When there is an unread position request call, the "✉" icon will appear on the display. To review the unread individual calls from the DSC log, refer to the section "11.11.3 Reviewing Other Logged Calls".

11.7.2 Manual Input of Position Information

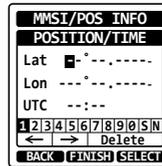
If the **HX890** is located in an area where GPS reception is limited, in order to reply to the received position request, you may manually input the location (latitude and longitude) and time to be sent.



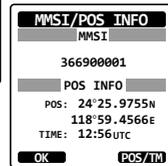
1. Press the **[POS/TM]** soft key.



2. Press the **CH▼/CH▲/◀/▶** key to select the first number of latitude, then press the **[SELECT]** soft key to step to the next number.



3. Repeat step 2 to set the position and time. If a mistake was made, press the **CH▼/CH▲/◀/▶** key to select “←” or “→”, press the **[SELECT]** soft key until the wrong character is selected, then perform step 2.



4. When finished programming the position and time, press the **[FINISH]** soft key. The display will return to the previous screen.
5. Press the **[OK]** soft key.
6. Press the **CLR** key to return to radio operation.

11.7.3 Setting up Position Reply

The **HX870E** can be set up to either “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 the **[SELECT]** soft key, then select “POSITION REPLY” with the **CH▼/CH▲** key.



2. Press the **[SELECT]** soft key, then press the **CH▼/CH▲** key to select “AUTO” or “MANUAL”. In “AUTO” mode, after a DSC POS Request is received, the radio will automatically transmit your vessels position. In “MANUAL” mode, the display of the radio will show who is requesting the position.
3. Press the **[ENTER]** soft key to store the selected setting.
4. Press the **CLR** key to return to radio operation.



11.7.4 Setting up a Position Request Ringer

The **HX890** position request ringer may be set to ON or OFF.



1. Press the **[SELECT]** soft key, then select “POS REQUEST” with the **CH▼/CH▲** key.
2. Press the **[SELECT]** soft key, then select “OFF” with the **CH▼/CH▲** key.
3. Press the **[ENTER]** soft key to store the selected setting.
4. Press the **CLR** key to return to radio operation.



To re-enable the ringer tone, repeat the above procedure, pressing the **CH▼/CH▲** key to select “ON” in step 6 above.

11.8 POSITION REPORT

This feature is similar to position request, however instead of requesting a position of another vessel this function allows you to send your position to another vessel.

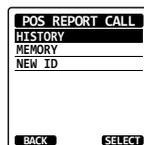
11.8.1 Transmitting a DSC Position Report Call

DSC Position Report Call using the Individual/Position Directory

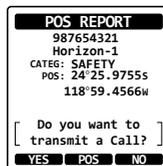
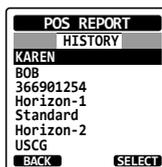
Refer to section “11.5 INDIVIDUAL CALL” to enter information into the individual directory.



1. Press the **CH▼/CH▲** key to select “HISTORY” or “MEMORY”.



2. Press the **[SELECT]** soft key.
3. Press the **CH▼/CH▲** key to select the intended recipient in the directory, then press the **[SELECT]** soft key.
4. Press the **[YES]** soft key to send your position to the selected vessel.
5. Press the **[QUIT]** soft key to return to radio operation.

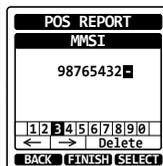
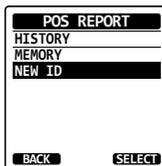


DSC Position Report Call by Manually Entering an MMSI

This feature allows you to send your position to another vessel by manually entering the MMSI of intended vessel.



1. Press the **CH▼/CH▲** key to select “NEW ID”, then press the **[SELECT]** soft key.
2. Press the **CH▼/CH▲** key to select the first digit of the MMSI that you want to contact, then press the **[SELECT]** soft key to step to the next digit.



3. Repeat step 2 to complete the MMSI number.

If a mistake was made while entering the MMSI number, press the **CH▼/CH▲/◀/▶** key to select “←” or “→”, press the **[SELECT]** soft key until the wrong character is selected, then perform step 2 and enter the correct numeral.



4. When the MMSI number is complete, press the **[FINISH]** soft key.
5. If you want to change the position displayed, press the **[POS/TM]** soft key to go to the position information input screen. After inputting new position information, press the **[FINISH]** soft key to confirm.
6. Press the **[YES]** soft key to send your position to the selected vessel.
7. Press the **[QUIT]** soft key to return to radio operation.

DSC Position Report Call by Manually Input Location and Time

If the **HX890** is located in an area where GPS reception is limited and you want to transmit a position report call, you may manually input the location (latitude and longitude) and time to be sent. For details, refer to section “**11.7.2 Manual Input of Position Information**”.

11.8.2 Receiving a DSC Position Report Call

When another vessel transmits their vessels location to the **HX890** the following will happen:

1. When a position report call is received from another vessel, a ringing sound will be produced.
2. Press any key to stop the ringing.
3. Press the **[INFO]** soft key to see more detailed position information of the station.
4. To exit and return to radio mode, press the **[QUIT]** soft key.

