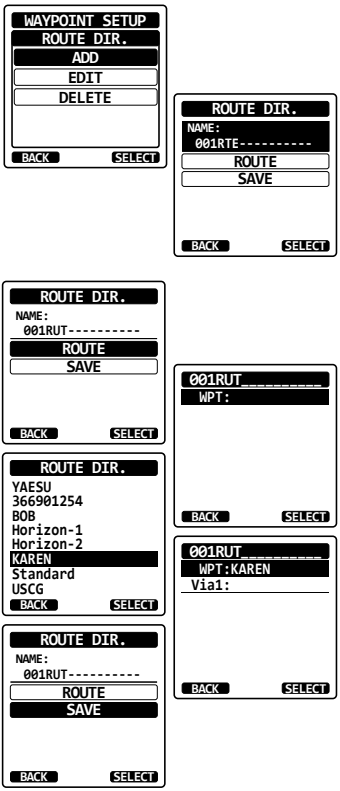
12.2.1 Setting Up Routing Directory

NOTE

> All the destinations and via-points must be programmed as waypoints in the **HX890** memory. Refer to section **"12.1.2 Setting Up Waypoint Directory"**.

Adding a Route

Press and hold MENU/SET key ➡ WAYPOINT SETUP (CH▲ / CH▼ key) ➡ SELECT (— key) ➡ ROUTE DIR. (CH▲ / CH▼ key) ➡ SELECT (— key)



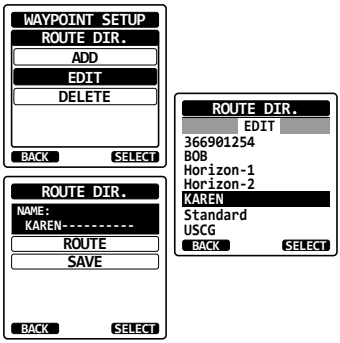
1. Select "ADD" with the **CH▼/CH▲** key, then press the **[SELECT]** soft key.
2. Select "NAME" with the **CH▼/CH▲** key, then press the **[SELECT]** soft key.
3. Enter a name for the route by pressing the **CH▼/CH▲** key and the **[SELECT]** soft key. When the name entry is complete, press the **[FINISH]** soft key.
4. Select "ROUTE" with the **CH▼/CH▲** key, press the **[SELECT]** soft key.
5. Select "WPT" with the **CH▼/CH▲** key, then press the **[SELECT]** soft key.
6. Press the **CH▼/CH▲** key to select a waypoint, then press the **[SELECT]** soft key.
7. Select "Via1" with the **CH▼/CH▲** key, then press the **[SELECT]** soft key.
8. Press the **CH▼/CH▲** key to select a waypoint, then press the **[SELECT]** soft key.
9. Repeat steps 7 and 8 to add more "Via…" waypoints.
10. Press the **[BACK]** soft key.
11. Select "SAVE" with the **CH▼/CH▲** key, then press the **[SELECT]** soft key to store the route into memory.
12. Press the **CLR** key to return to radio operation.

Editing a Route

This function allows a previously entered route to be edited.

Press and hold MENU/SET key → WAYPOINT SETUP (CH▲ / CH▼ key) → SELECT (▬ key) → ROUTE DIR. (CH▲ / CH▼ key) → SELECT (▬ key)

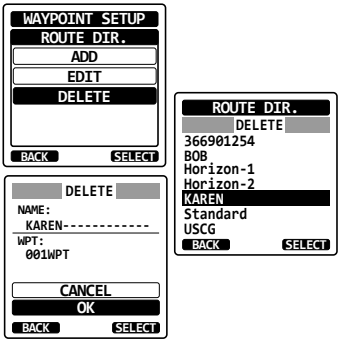
1. Select "EDIT" with the **CH▼/CH▲** key, then press the **[SELECT]** soft key.
2. Press the **CH▼/CH▲** key to select the route to be edited, then press the **[SELECT]** soft key to show the route input display.
3. Perform steps 2 to 10 of the previous page until the route is updated.
4. Select "SAVE" with the **CH▼/CH▲** key, then press the **[SELECT]** soft key to store the edited route into memory.
5. Press the **CLR** key to return to radio operation.



Deleting a Route

Press and hold MENU/SET key → WAYPOINT SETUP (CH▲ / CH▼ key) → SELECT (▬ key) → ROUTE DIR. (CH▲ / CH▼ key) → SELECT (▬ key)

1. Select "DELETE" with the **CH▼/CH▲** key, then press the **[SELECT]** soft key.
2. Press the **CH▼/CH▲** key to select the route to be deleted, then press the **[SELECT]** soft key.
3. Confirm the route to be deleted, select "OK" with the **CH▼/CH▲** key, then press the **[SELECT]** soft key.

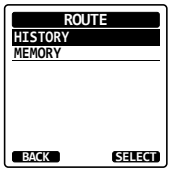


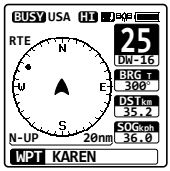
4. Press the **CLR** key to return to radio operation.

12.2.2 Starting and Stopping Route Navigation

Press MENU/SET key → NAVI (CH▲ / CH▼ / ► / ◄ key) → SELECT (▬ key) → ROUTE (CH▲ / CH▼ key) → SELECT (▬ key)

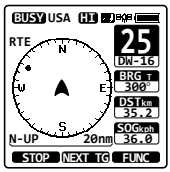
1. Select the desired category (“HISTORY” or “MEMORY”), then press the **[SELECT]** soft key.
2. Press the **CH▼/CH▲** key to select a route, then press the **[SELECT]** soft key. The navigation screen with “RTE” indicator appears.
3. A message “ARRIVED” will appear when you have reached the first target point.
   To start navigation to the next target, press the **[YES]** soft key.
4. To stop the navigation, press ◄/► key, then press the **[STOP]** soft key.
5. Press the **CLR** key to return to radio operation.

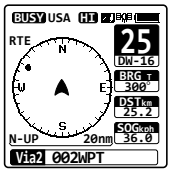




12.2.3 Changing the Destination

1. On the navigation screen, press soft key, then press the **[NEXT TG]** soft key.
2. Press the **CH▼/CH▲** key to select the desired destination.
3. Press the **[ENTER]** soft key. The navigation screen with a new destination appears.





12.2.4 Selecting Automatic or Manual Routing

Use this selection to start navigation to the next target automatically or manually when your vessel has arrived at a target point.

Press and hold MENU/SET key ➡ WAYPOINT SETUP (CH▲ / CH▼ key) ➡ SELECT (▬ key) ➡ ROUTING OPERATION (CH▲ / CH▼ key) ➡ SELECT (▬ key)

1. Select “AUTO” or “MANUAL” with the **CH▼/CH▲** key, then press the **[ENTER]** soft key.
2. Press the **CLR** key to return to radio operation.

13. GM OPERATION

The GM (Group Monitor) feature of the **HX890** utilizes the same system as the DSC Group call and Auto Position Polling, to display the group members' locations.

13.1 SETTING UP GM OPERATION

The **HX890** is capable of storing up to 10 groups with 1 to 9 members each.

13.1.1 Setting Up Group Directory

NOTE

- For this function to operate, the same group MMSI must be programmed into each transceiver of group members to be monitored. Refer to section **"11.6.1 Setting up a Group Call"** for details.
- Group members for GM operation can only be selected from the Individual/Position Call directory, therefore all members that you want to monitor must be stored in the directory. Refer to section **"11.5.1 Setting up the Individual Call Directory"** for details.

Press and hold MENU/SET key ➡ GM SETUP ➡ (CH▲ / CH▼ key) ➡ SELECT (▬ key) ➡ GM GROUP DIR. ➡ (CH▲ / CH▼ key) ➡ SELECT (▬ key)

1. Select "ADD" with the **CH▼/CH▲** key, then press the **[SELECT]** soft key.
2. Select "NAME" with the **CH▼/CH▲** key, then press the **[SELECT]** soft key.
3. Enter a name for the route by pressing the **CH▼/CH▲** key and the **[SELECT]** soft key. When finished entering the name, press the **[FINISH]** soft key.
4. Select "GM ID" with the **CH▼/CH▲** key, press the **[SELECT]** soft key, then enter the group MMSI number.
   When finished entering the MMSI, press the **[FINISH]** soft key.

5. Select “MEMBERS” with the **CH▼/CH▲** key, then press the **[SELECT]** soft key.
6. Press the **CH▼/CH▲** key to select a list number, then press the **[SELECT]** soft key.
7. Press the **CH▼/CH▲** key to select a member from the Individual directory, then press the **[SELECT]** soft key.
8. Repeat steps 11 and 11 to add members to the group.
9. Press the **[BACK]** soft key to return to the “NAME” and “GM ID” screen.
10. To store the data, select “SAVE”” with the **CH▼/CH▲** key, then press the **[ENTER]** soft key.

11. To enter other group directories, repeat steps 5 through 10.
12. Press the **CLR** key to return to radio operation.

13.1.2 Setting Up the Polling Time Interval

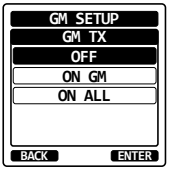
Press and hold MENU/SET key → GM SETUP (CH / CH key) → SELECT (— key) → INTERVAL (CH / CH key) → SELECT (— key)

1. Press the **CH▼/CH▲** key to select the desired interval time, then press the **[ENTER]** soft key.
2. Press the **CLR** key to return to radio operation.

13.1.3 Enabling/Disabling Transmission during GM Operation

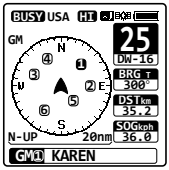
Press and hold MENU/SET key → GM SETUP (CH / CH key) → SELECT (— key) → GM TX (CH / CH key) → SELECT (— key)

1. Press the **CH▼/CH▲** key to select the desired transmission type, then press the **[ENTER]** soft key.
   - OFF: Disables the transmission during GM operation.
   - ON GM: Enables the transmission during the GM target display.
   - ON ALL: Enables the transmission during the GM operation.
2. Press the **CLR** key to return to radio operation.



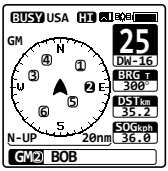
13.2 STARTING GM OPERATION

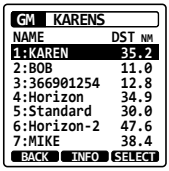
1. Select a group you want to monitor with the **CH▼/CH▲** key, then press the **[SELECT]** soft key.
   The GM operation starts and the GM target display appears.
2. Press the **CLR** key to return to radio operation.

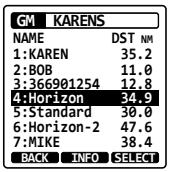


13.2.1 Transmitting a DSC Call to a Group Member

1. Press ◄/► key while the GM target is displayed, then press the **[LIST]** soft key.
2. Press the **CH▼/CH▲** key to select a member you want to call.
3. Press the **[SELECT]** soft key.
   The list number of the selected member will be highlighted, and the name of the selected member will be displayed at the bottom of the screen.
4. Press ◄/► key, then press the **[CALL]** soft key to transmit a DSC Individual call to the selected member.





13.2.2 Starting Navigation to a Group Member

1. Press ◄/► key while the GM target is displayed, then press the **[LIST]** soft key.
2. Press the **CH▼/CH▲** key to select a member you want to approach.
3. Press the **[INFO]** soft key to display the location, distance, and bearing of the selected member.
4. Press the **[TO WPT]** soft key to start navigation to the selected member. (Press the **[BACK]** soft key twice to cancel and return to the GM target display.)