

## Chapter 5: Digital Select Calling (DSC)

The Digital Selective Calling (DSC) protocol is a globally applied system used to send and receive digital calls. DSC uses a unique Maritime Mobile Service Identity (MMSI) number to direct DSC calls directly to your radio, much like a telephone number. When the DSC signal is received, the radio quickly switches over to Channel 70 and performs the corresponding operation.

**Note:** *An MMSI number is required to operate the DSC equipment in this radio. You can program the MMSI number yourself one time only using the Menu Operation described in this handbook. Otherwise, your Raymarine dealer can program or change the number for you.*

When a DSC call is received, the Ray54 Base Station automatically responds based on the type of call. When receiving a DSC call from another vessel or a coast station, an alert sounds and DSC data appears in the LCD – such as time of a call, the caller and the type and priority of a call.

DSC calls fall into four categories:

- **INDIVIDUAL** calls are made to a specific station identified by its MMSI number. See *page 39*.
- **GROUP** calls send transmissions that are only received by radios that share a common Group MMSI number. See *page 46*.
- **ALL SHIPS** calls send out a message to all vessels within range that you wish to send a Safety or Urgency message but the situation is not serious enough for a Distress Call. See *page 50*.
- **DISTRESS** calls send your vessel's position and time information to other ships and shore stations, along with (optionally) the nature of your Distress situation. See *page 55*.
- **POSITION REQUEST** calls enable you to request GPS position information from any vessel for which an MMSI number is known.

DSC calls (except Distress) are designated as:

- **ROUTINE** for normal calls
- **SAFETY** for advisory alerts
- **URGENCY** for assistance when life is not in immediate danger

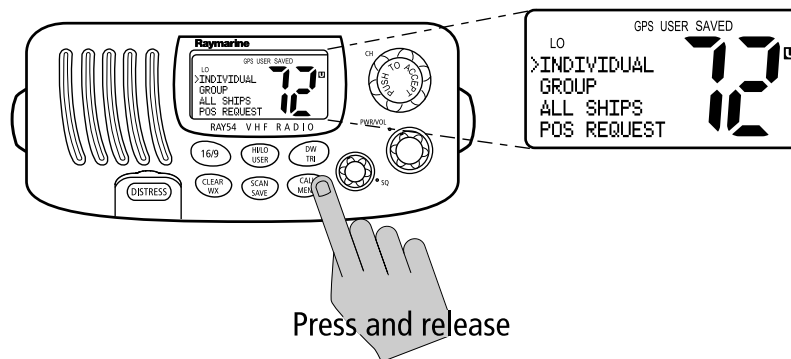
<b>Calls the Ray54 can make:</b>	<b>Calls the Ray54 can receive:</b>
Individual Routine	Individual Safety, Urgency and Routine
Group Routine	Group Routine
All Ships Safety and Urgency	All Ships Safety, Urgency and Routine
Distress	Distress, including Distress ACK and Distress Relay
Position Request	

## 5.1 DSC Call Function

CALL  
MENU

Call Mode is used to initiate DSC Individual, Group, All Ships and Distress calls, to request GPS position information for another vessel and to access the Call Logs and Phonebook. The channel remains unchanged and you can perform normal TX operation. DSC mode is exited when transmitting.

**Press and release the CALL/MENU** key while in normal operation mode to enter DSC Call Mode.



Press and release

The Ray54's call type and structure are as follows:

Call Type	Description
INDIVIDUAL	Makes a ROUTINE DSC call to a specific station identified by its MMSI number.
GROUP	Sends transmissions that are only received by radios that share a common Group MMSI number. Up to 3 Group MMSI numbers can be stored and called.
ALL SHIPS	Sends out a message to all ships within range that you need assistance but the situation is not serious enough for a Distress Call. This call should only be used if hailing for assistance on channel 16 fails. There are two types of All Ships Calls: SAFETY for advisory alerts and URGENCY for assistance when life is not in immediate danger.
DISTRESS	Sends out the position and time information from the input NMEA data along with your MMSI number. This digital information lets other ships and shore stations equipped with appropriate DSC equipment know where you are and that you are in a Distress situation.
POSITION REQUEST	This option enables you to request GPS position information from any vessel for which an MMSI number is known. You can specify the target vessel either by selecting it from your MMSI phonebook or by manually entering its MMSI number.
RX CALL LOG	A list of all received call types (except Distress calls) by number and time of call. The log maintains up to 20 calls; the earliest call is stored at the end of the list. After more than 20 calls have been received, the call at the end of the list is automatically overwritten. An Individual Call can be placed to the selected MMSI/NAME in the log.
DISTRESS LOG	Lists all stored Distress calls by number and time of call. The log maintains up to 20 calls; the earliest call is stored at the end of the list. After more than 20 calls have been received, the call at the end of the list is automatically overwritten. An Individual call can be placed to the selected MMSI/NAME in the log. NOTE: Received Distress Relay calls are also stored in the Distress Log.

## 5.2 Individual Calls

The Ray54 can *make* Individual Routine calls and *receive* Individual Safety, Urgency and Routine calls.

### Making Calls to Coast Stations

The examples in this handbook illustrate making calls to Ship Stations. However, the procedures for making Individual Calls to a Coast Station are different. Calls to a Ship Station require that you enter a subsequent working channel chosen from a pre-programmed list offered to you by the Ray54.

Calls to a Coast Station remove this step from the operating procedures: the Coast Station controls and indicates the subsequent working channel within its acknowledgement.

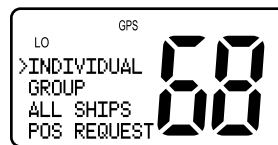
The Ray54E automatically detects the correct procedures for you based on the type of MMSI number you enter manually or with or the phonebook. If "00" is detected as the first two characters of the MMSI, Coast Station procedures are implemented automatically.

### Transmitting an Individual Call Using the Phonebook

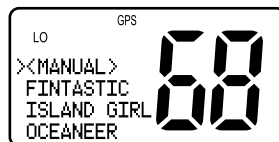
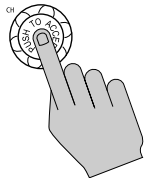
To call another ship or coast station, you must select the specific MMSI number to contact and the working channel to be used for the call. The MMSI number can be entered manually or selected from a Phonebook list of preprogrammed numbers specified using the MENU function.

#### INDIVIDUAL

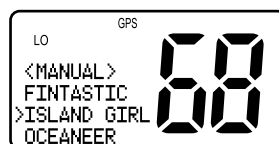
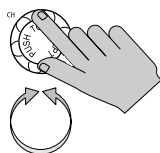
1. Press and release the **CALL/MENU** key to enter the DSC menu. The arrow is pointing to **INDIVIDUAL**.



2. Push the **CH** knob to select **INDIVIDUAL**. The Individual menu appears, which displays the Phonebook entries you have saved and **<MANUAL>** for manual number entry.



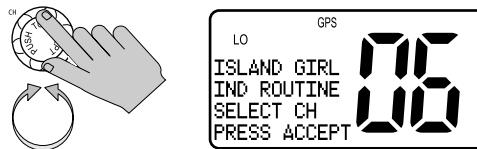
3. Rotate the **CH** knob to until the arrow points to the desired individual name.



4. Push in the **CH** knob to select the desired individual name.



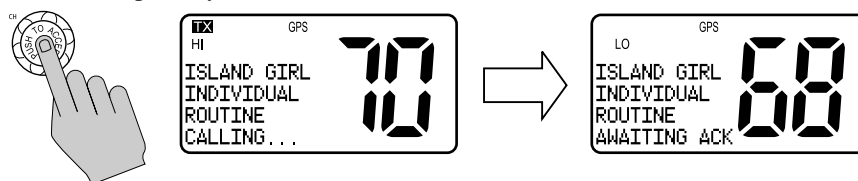
5. Rotate the **CH** knob to select the working channel to be used for the Individual Call.



6. Push in the **CH** knob to accept the selection.



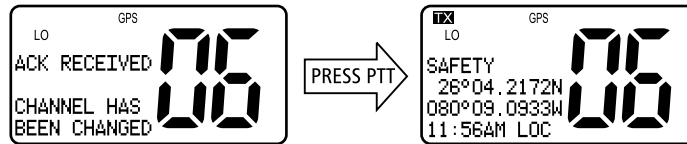
7. Push **CH** knob again to send the Individual Call.  
The Individual Call is transmitted on channel 70, and then the radio tunes to the original channel and waits for acknowledgement. During this period you are still able to receive calls.



**Note:** Pressing PTT at any time before an ACK is received cancels the Individual Call.

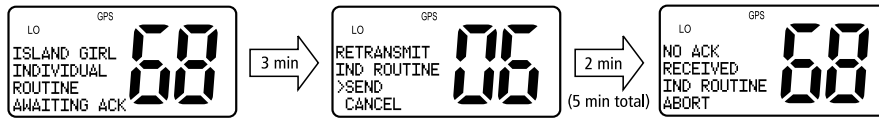
When the acknowledgement is received, the Ray54 automatically switches to the working channel chosen to be used for the call and sounds a Call Alert ring. Press any key to mute the ringing alarm. In the event that an alarm is not cancelled manually, the alarm shuts off automatically after two minutes.

8. Press **PTT** to communicate on the specified channel.



If no acknowledgement is received within 3 minutes, the radio prompts you to resend the call.

If you do nothing for 2 minutes, the Individual call is cancelled and the radio reverts to the original channel.

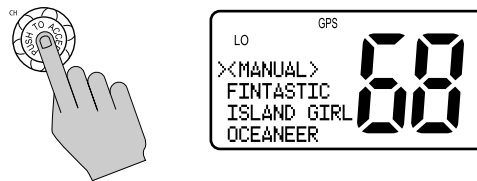


### Manually Sending an Individual Call

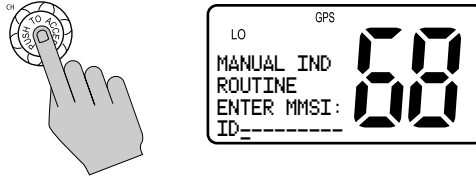
- INDIVIDUAL** 1. Press and release the **CALL/MENU** key to enter the DSC menu. The arrow is pointing to INDIVIDUAL.



2. Push in the **CH** knob to select INDIVIDUAL. The Individual menu appears, which displays the Phonebook entries you have saved and <MANUAL> for manual number entry.

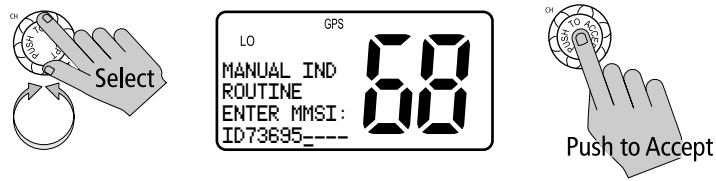


3. Push the **CH** knob again to select MANUAL.

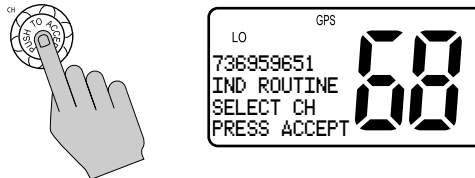


4. Enter the MMSI number using the **CH** knob. Rotate the **CH** knob to select each character and then push in the knob to accept. The next position to be modified is indicated by a flashing underline.

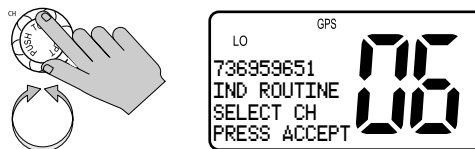
**Note:** The last character selection is a caret (<), which represents a BACKSPACE. Accepting the caret returns the current position to its default value and moves you back to the previous position..



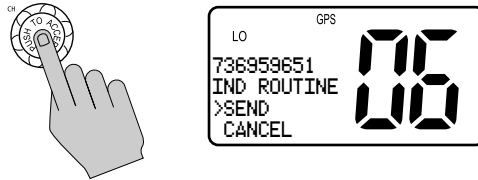
5. When MMSI entry is complete, push the **CH** knob to accept.



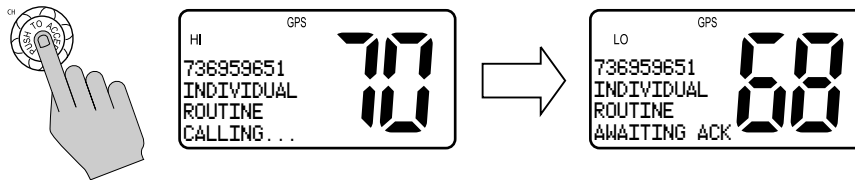
6. Rotate the **CH** knob to select the working channel to be used for the Individual Call.



7. Push in the **CH** knob to accept the selection.



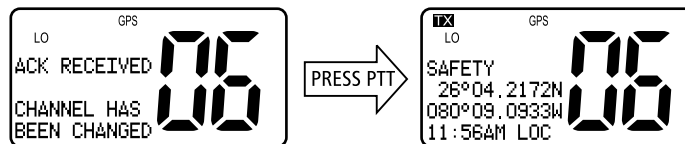
8. Push the **CH** knob again to send the Individual Call. The Individual Call is transmitted on channel 70, and then the radio tunes to the original channel and waits for acknowledgement. During this period you are still able to receive calls.



**Note:** Pressing **PTT** at any time cancels the Individual Call.

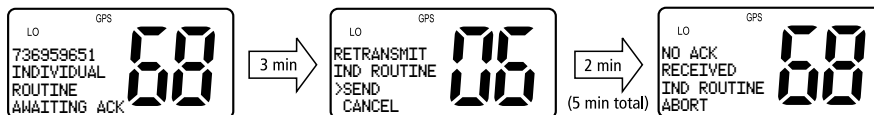
When the acknowledgement is received, the Ray54 automatically switches to the channel chosen to be used for the call and sounds a Call Alert ring. Press any key to mute the ringing alarm. If not cancelled manually, the alarm shuts off automatically.

9. Press **PTT** to communicate on the specified channel.



If no acknowledgement is received within 3 minutes, the radio prompts you to resend the call.

If you do nothing for 2 minutes, the Individual call cancelled and the radio reverts to the original channel.





## Receiving Individual Calls

**INDIVIDUAL** The Ray54 can receive Individual Safety, Urgency and Routine Calls from a specific ship or coast station.

When an Individual Call is received, the radio sounds an alarm and displays the type of call, the name or MMSI number (if the caller's MMSI number has not been programmed into your Phonebook) of the caller and the time the call was initiated. When an Individual call from a station is received, the radio also asks you to send an "acknowledge" (ACK) back to the caller. You are prompted to accept or decline the call.

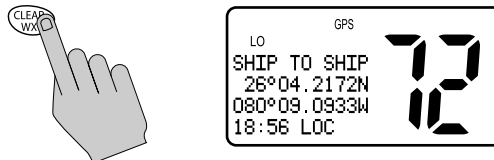


### ► To silence the alarm:

Press any key. Automatic cancellation of the alarm takes place after 2 minutes.

### ► To cancel the mode without sending ACK:

Press the **CLEAR/WX** key. The alarm is muted, call is interrupted and the normal communications screen appears in the display.

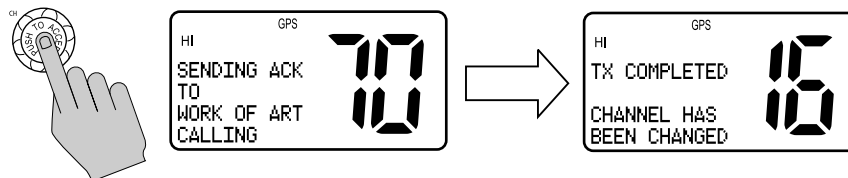


### ► To accept the call:

Push the **CH** knob. The alarm is muted.

The LCD indicates a change of working channels has been made.

For Routine calls, the channel changes to the one designated by the caller. For Safety and Urgency calls, the radio automatically switches to CH 16.



- Notes:**
- (1) *DSC call data is stored in the first available non-volatile memory slot in the Call Log, regardless of whether the call is acknowledged.*
  - (2) *Pressing the 16/9 key cancels the channel change request and tunes the radio to Channel 16.*
  - (3) *If 5 minutes elapse before the call is acknowledged or rejected, the radio automatically declines the incoming Individual Call. No Acknowledgement is sent and the radio reverts to the original channel.*

### 5.3 Group Calls

The Group Call feature sends transmissions that are only received by radios that share a common Group MMSI number, such as a flotilla or racing fleet. As with any DSC operation, the Group Call is made on Channel 70.

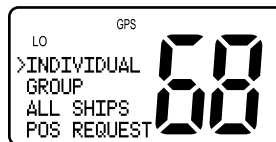
The Ray54 can send and receive Group Routine calls.

#### Transmitting a Group Call

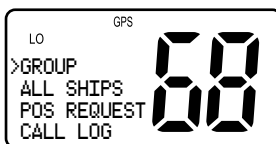
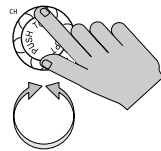
To call another vessel in the group, you must select the Group MMSI number to contact and the working channel to be used for the call. The Group MMSI number is selected from a Phonebook list of preprogrammed numbers specified using the Menu function. Up to three Group ID numbers can be stored.

GROUP

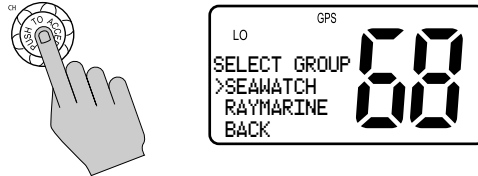
1. **Press and release the CALL/MENU** key to enter the DSC menu. The arrow is pointing to INDIVIDUAL.



2. Rotate the **CH** knob to until the arrow points to GROUP.



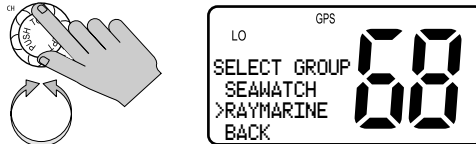
3. Push i the **CH** knob to select GROUP. The Group Call menu appears, which displays the Group entries you have saved.



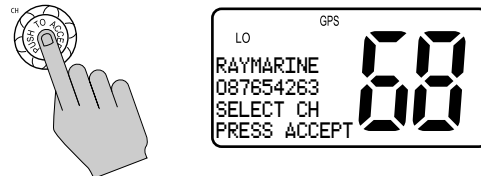
**Note:** Only the Group IDs that have been programmed into memory appear in the list.

If you have not yet programmed any groups into memory, the message **NO GROUP IN MEMORY** appears. Select **BACK** to return to the previous screen.

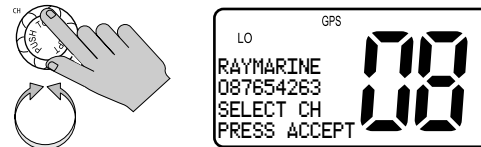
4. Rotate the **CH** knob to until the arrow points to the desired Group number.



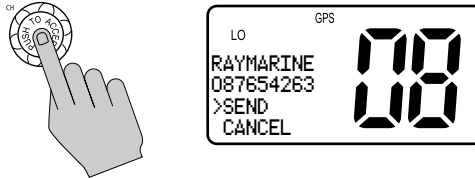
5. Push the **CH** knob to select the desired Group.



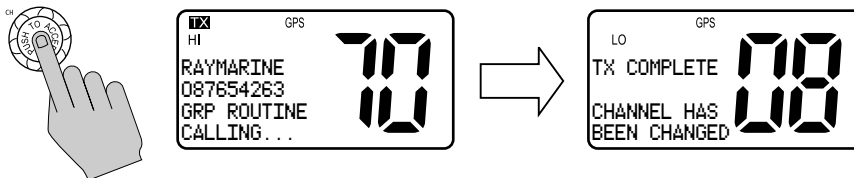
6. Rotate the **CH** knob to select the working channel to be used for the Group Call.



7. Push in the **CH** knob to accept the selection.



8. Push the **CH** knob again to send the Group Call.  
The call is transmitted on channel 70, and then the radio tunes to the designated working channel to be used for the Group Call.



9. Press **PTT** to communicate on the specified channel.

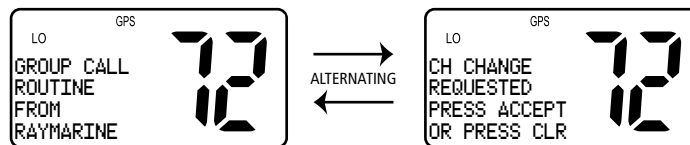


## Receiving Group Calls

### GROUP

The Ray54 can receive Group Routine calls from anyone in your prearranged group.

When a Group call is received, an alarm sounds and the LCD alternates screens displaying the name of the group initiating the call and that a change of working channels is being requested.

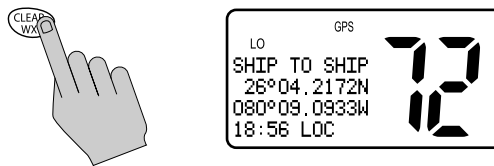


### ► To silence the alarm:

Press any key. Automatic cancellation of the alarm takes place after 2 minutes.

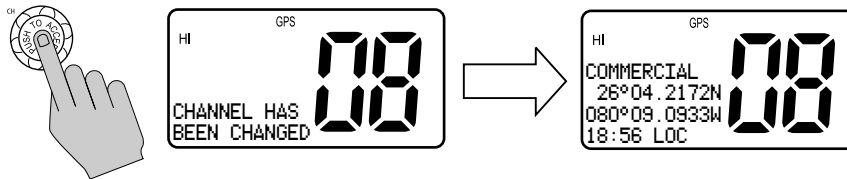
► **To ignore the call:**

Press the **CLEAR/WX** key. The alarm is muted, call is interrupted and the normal communications screen appears in the display.



► **To accept the call:**

Push the **CH** knob. The alarm is muted (if you have not already pressed another key). The LCD indicates that the channel has been changed to the one designated by the caller.



No acknowledgement is sent to the caller. You can initiate establish voice communication on the channel shown in the LCD by pressing the **PTT** key.

- Notes:**
- (1) DSC call data is stored in the first available non-volatile memory slot in the Call Log.
  - (2) Pressing the 16/9 key cancels the channel change request and tunes the radio to Channel 16.
  - (3) If 5 minutes elapse before the call is accepted or rejected, the radio automatically declines the call and the radio reverts to the original channel.

## 5.4 All Ships Calls

The Ray54 can make All Ships Safety and Urgency calls and receive All Ships Safety, Urgency and Routine calls.

An All Ships Call sends out a message to all ships within range that you need to advise of a hazardous situation or that you require assistance but the situation is not serious enough for a Distress Call.

For example, you might send a Safety Call to warn others there is a large floating object that may be a hazard to navigation. A sample Urgency Call might be that you have an illness or an accident on board.

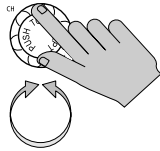
The All Ships Call is made on Channel 70, and then the radio automatically switches to channel 16 at high power for voice communications.

### Transmitting an All Ships Safety Call

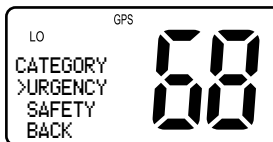
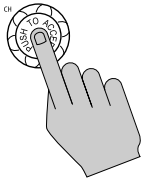
- ALL SHIPS** 1. Press and release the **CALL/MENU** key to enter the DSC menu. The arrow is pointing to **INDIVIDUAL**.



2. Rotate the **CH** knob to until the arrow points to **ALL SHIPS**.



3. Push the **CH** knob to select **ALL SHIPS**. The All Ships menu appears, which displays the categories from which you can select.



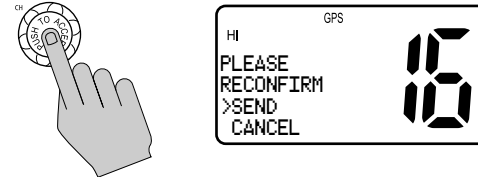
4. Rotate the **CH** knob to until the arrow points to SAFETY.



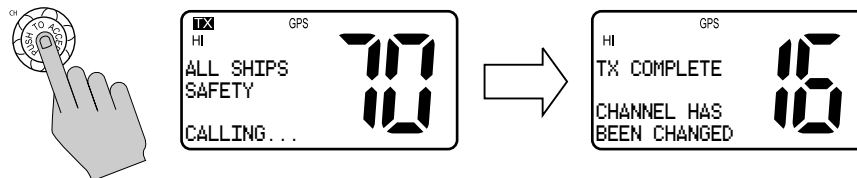
5. Push in the **CH** knob to select the All Ships Safety category.



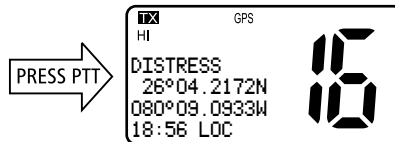
6. Push the **CH** knob again to send the call.



7. Press **CH** one more time to reconfirm the All Ships Safety Call.  
The call is transmitted on channel 70, and then the radio tunes to channel 16.



8. Press **PTT** to communicate on the channel 16.



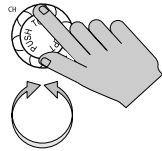
## Transmitting an All Ships Urgency Call

**ALL SHIPS**

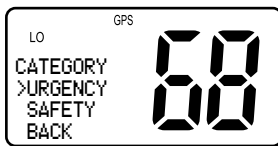
1. Press and release the **CALL/MENU** key to enter the DSC menu. The arrow is pointing to **INDIVIDUAL**.



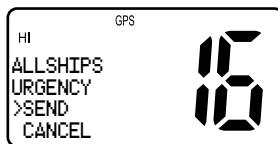
2. Rotate the **CH** knob to until the arrow points to **ALL SHIPS**.



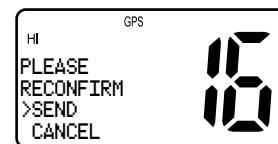
3. Push in the **CH** knob to select **ALL SHIPS**. The All Ships menu appears, which displays the categories from which you can select.



4. Push the **CH** knob to select the Urgency All Ships category.

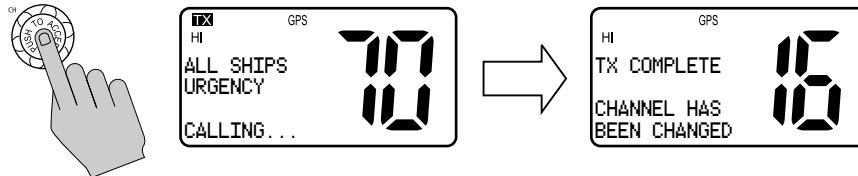


5. Press the **CH** knob again to send the call.

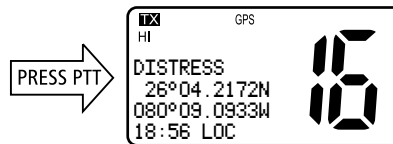




6. Push **CH** one more time to reconfirm the All Ships Urgency Call.  
The call is transmitted on channel 70, and then the radio tunes to channel 16 at high power.



7. Press **PTT** to communicate on the channel 16.

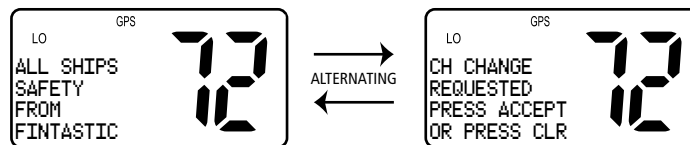


## Receiving an All Ships Call

### ALL SHIPS

The Ray54 can receive All Ships Routine, Safety and Urgency calls. For Routine Calls, you are prompted to switch the channel to the one selected by the caller. For All Ships Urgency, the channel automatically changes to Priority Channel 16 for the communications. For All Ships Safety, the channel change request must first be accepted before changing to Priority Channel 16.

When an All Ships Call is received, the radio sounds an alarm and displays the type of call, the name or MMSI number (if the caller's MMSI number has not been programmed into your Phonebook) of the caller and the time the call was initiated. You are prompted to accept or decline the call.

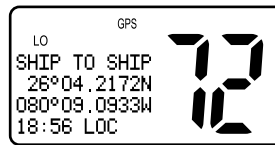


### ► To silence the alarm:

Press any key. Automatic cancellation of the alarm takes place after 2 minutes.

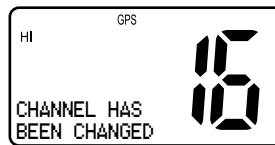
► **To decline the call:**

Press the **CLEAR/WX** key. The alarm is muted, call is interrupted and the normal communications screen appears in the display.

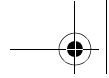


► **To accept the call:**

Push the **CH** knob. The alarm is muted (if you have not already pressed another key) and the radio switches to channel 16.



- Notes:**
- (1) *DSC call data is stored in the first available memory slot in the Call Log, regardless of whether the call is acknowledged.*
  - (2) *Pressing the 16/9 key cancels the channel change request and tunes the radio to Channel 16.*
  - (3) *If 5 minutes elapse before the call is acknowledged or rejected, the radio automatically declines the incoming call and the radio reverts to the original channel.*

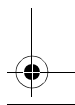
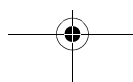
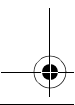
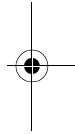
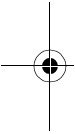


## 5.5 Distress Calls

For a Distress call transmission, the Ray54 takes the position and time information from the input NMEA data along with your MMSI and converts it into a digital “packet”. When transmitted, this digital information lets other ships and shore stations equipped with appropriate DSC equipment know where you are and that you are in a Distress situation.

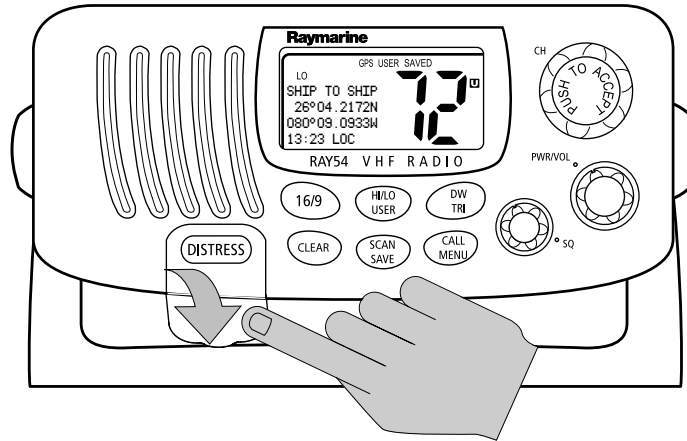
Your call can specify the nature of the Distress (designated call) or not (undesignated call). When you make a Designated Distress Call, you can select from the following types:

- UNDESIG (Undesignated)
- FIRE
- FLOODING
- COLLISION
- GROUNDING
- LISTING
- SINKING
- ADRIFT
- ABANDONING (Abandoning Ship)
- PIRACY
- MANOVERBD (Man Overboard)

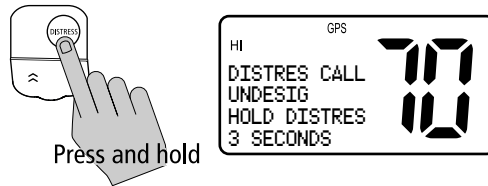


## Sending an Undesignated (QUICK) Distress Call

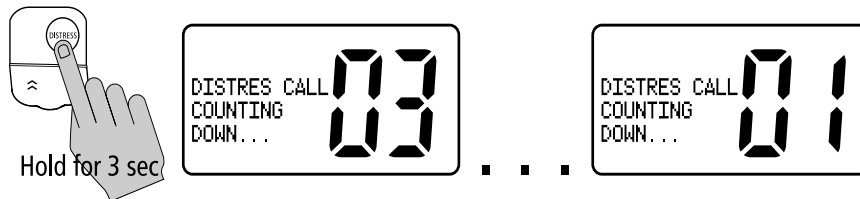
- DISTRESS** 1. Push down the spring-loaded door on the front panel of the base station.



2. Press and hold the red **DISTRESS** key. The Distress screen appears.



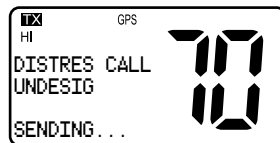
3. Continue to hold the **DISTRESS** key for 3 seconds to initiate the call. During this time, the radio beeps, the display flashes and a timer counts down 3...2...1.



**To cancel the Distress Call:** release the **DISTRESS** key before the countdown has completed.

4. After the 3 second countdown is completed, the call is sent and the radio waits for acknowledgement. The display stops flashing and the alarm sounds continuously until muted or an ACK is received.

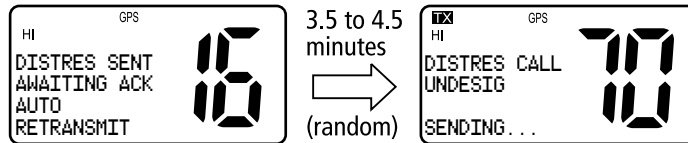
**To mute the alarm:** press **CLEAR/WX**.



After the Distress transmission, your transceiver is automatically set to Channel 16 at high power to listen for and respond to voice replies from Search and Rescue (SAR) authorities or other vessels that may have received your Distress Call.

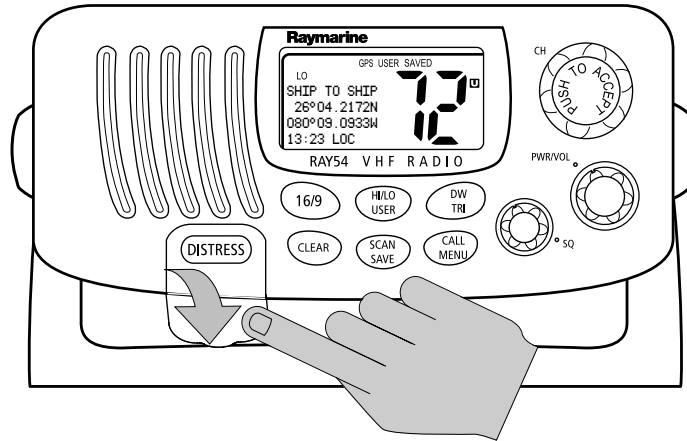
The Distress Call is resent randomly every 3.5 – 4.5 minutes until an acknowledgement is received or the call is manually cancelled.

**To cancel the automatic Distress resend:** press **CLEAR/WX**.

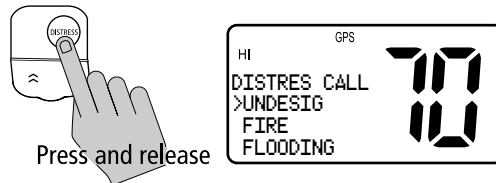


## Sending a Designated Distress Call

- DISTRESS** 1. Push down the spring-loaded door on the front panel of the base station.



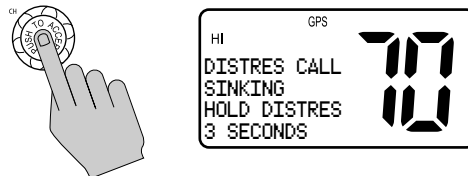
2. Press and release the red **DISTRESS** key. The Distress Call screen appears.



3. Rotate the **CH** knob until the arrow points to the type of Distress you wish to designate.



4. Push in the **CH** knob to select that type of Distress.



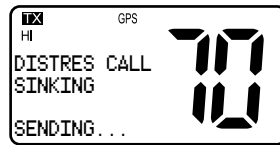
5. **Press and hold** the **DISTRESS** key for 3 seconds to initiate the call. During this time, the radio beeps, the display flashes and a timer counts down 3...2...1.



**To cancel the Distress Call:** release the **DISTRESS** key before the countdown has completed.

6. After the 3 second countdown is completed, the call is sent and the radio waits for acknowledgement. The display stops flashing and the alarm sounds continuously until muted or an ACK is received.

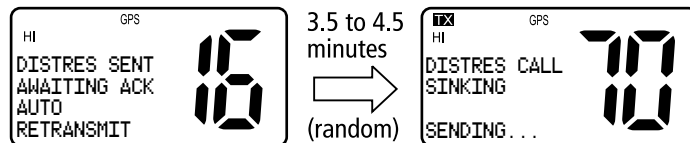
**To mute the alarm:** press **CLEAR/WX**.



After the Distress transmission, your transceiver is automatically set to Channel 16 at high power to listen for and respond to voice replies from SAR authorities or other vessels that may have received your Distress Call.

The Distress Call is resent randomly every 3.5 – 4.5 minutes until an acknowledgement is received or the call is manually cancelled.

**To cancel the automatic Distress resend:** press **CLEAR/WX**.



## Canceling a Distress Call Made in Error

If you should send a Distress Call in error, you should make an announcement as soon as possible that the distress situation does not exist.

1. Immediately power off the radio to cancel the DSC call.
2. Power the radio back on and set to channel 16.
3. Make a broadcast to all stations giving your ship's name, call sign and DSC number and cancel the false distress alert.

*Sample Announcement to Cancel a Distress Call Made in Error:*

“All Stations, All Stations, All Stations. This is NAME, CALL SIGN, DSC NUMBER, POSITION. Cancel my distress alert of DATE, TIME, NAME, CALL SIGN.”

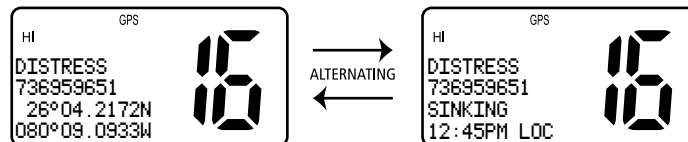
## Receiving a Distress Call

### DISTRESS

The Ray54 receives distress messages sent by another vessel and/or acknowledgments (ACK) sent by a coast station to another vessel in distress. The radio also receive distress relays. In such cases you should maintain radio silence and a listening watch on channel 16 and standby to lend assistance if requested.

When a distress call is received, the Ray54 automatically tunes to channel 16 and sounds the Distress Alarm Tone. Pressing any key disables the alarm. Two alternating screens appear in the display. When position data and time is included within the signal, it is displayed on the first screen in the text area of the LCD. If invalid GPS or Time data is received, the lat/lon position shows '9' in all digits and the time shows all '8's. The second screen shows the nature of the distress and the time it was sent. The 2 alternating pages of data are recorded in the Distress Call Log.

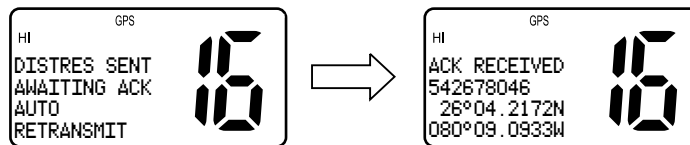
Maintain radio silence and a listening watch on channel 16 and standby to lend assistance if requested.





## Receiving a Distress ACK Sent from a Coast Station

**DISTRESS** When a Distress ACK is received from a Coast Station (Coast Guard or Search and Rescue) the Distress alarm sounds. The LCD displays the Name/MMSI ID of the vessel in distress. Maintain radio silence and a listening watch on channel 16 and standby to lend assistance if requested.



## Receiving a Distress Relay Sent by Another Vessel

**DISTRESS** When a Distress Relay is received from another vessel, an alarm sounds and the LCD displays two alternating screens. The first page displays the Name/MMSI ID of the vessel sending the message. The second page displays the Name/MMSI ID of the vessel in distress and its lat/lon position. Your vessel does not re-send a distress relay message.

Maintain radio silence and a listening watch on channel 16 and standby to lend assistance if requested.

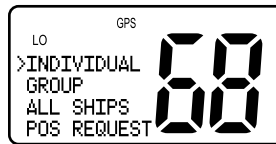


## 5.6 Position Request

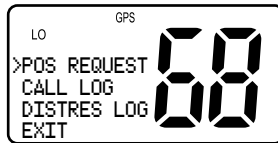
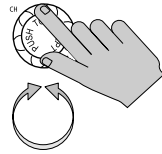
This option enables you to request GPS position information from any vessel for which an MMSI number is known. You can specify the target vessel either by selecting it from your MMSI phonebook or by manually entering its MMSI number.

### Specifying the Target Vessel from the Phonebook

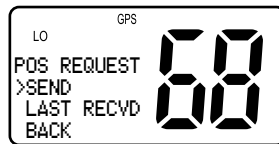
- POS REQUEST** 1. Press and release the **CALL/MENU** key to enter the DSC menu. The arrow is pointing to INDIVIDUAL.



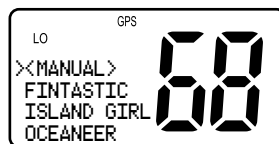
2. Rotate the **CH** knob to select POS REQUEST.



3. Push in the **CH** knob to select POS REQUEST. The Position Request menu appears.



4. Push the **CH** knob again to select SEND. Choose the target vessel from the phonebook.



5. Rotate the **CH** knob to until the arrow points to the desired name.

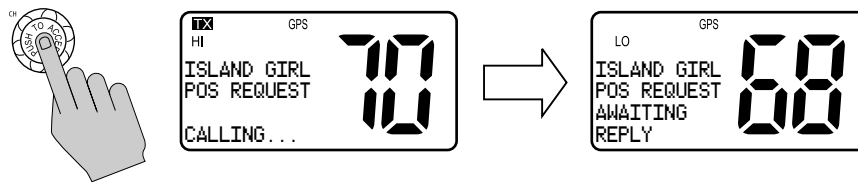


6. Push in the **CH** knob to select the desired name.



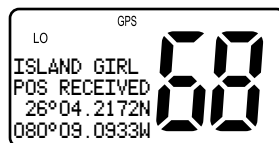
7. Push the **CH** knob again to send the Position Request.

The Position Request is transmitted on channel 70, and then the radio tunes to the original channel and waits for acknowledgement. During this period you are still able to receive calls.



**Note:** Pressing **PTT** at any time before reply is received cancels the Position Request. In this case, you must resubmit the request.

When the position request is received, the Ray54 shows that the call has been completed and displays the position data for the requested vessel.



The radio sounds a Call Alert Ringing. Press any key to mute the ringing alarm. In the event that an alarm is not cancelled manually, the alarm shuts off automatically after two minutes.

The position request information disappears when a key is pressed. You can retrieve the last received position using the **LAST RECVD** option.

## Retrieving the Last Received Position Data

1. From the Position Request screen, rotate **CH** to select LAST RECVD.



2. Push the **CH** knob to select. The last received position request data is displayed.



**Note:** Only the last position is saved. The next received position will override the existing position data.

Press the **CLEAR/WX** key to exit the LAST RECVD window.

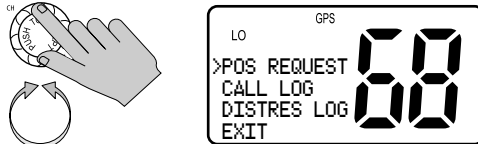
When no reply is received within 3 minutes, the radio prompts you to resend the call. After a total of 5 minutes of inactivity, the position request call is cancelled and the message NO REPLY POS REQUEST ABORT is displayed. This message disappears after **PTT** is pressed.

## Manually Sending a Position Request

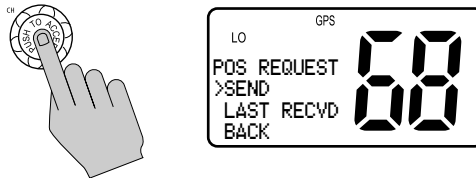
- POS REQUEST** 1. Press and release the **CALL/MENU** key to enter the DSC menu. The arrow is pointing to INDIVIDUAL.



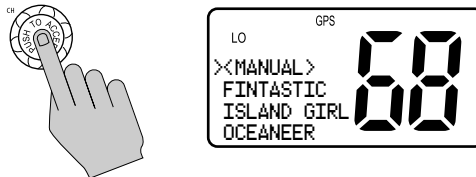
2. Rotate the **CH** knob until the arrow points to POS REQUEST.



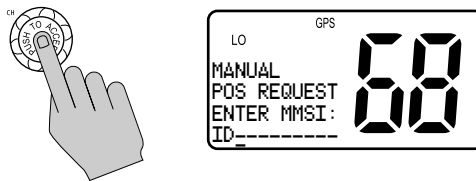
3. Push in the **CH** knob to select POS REQUEST. The Position Request menu appears.



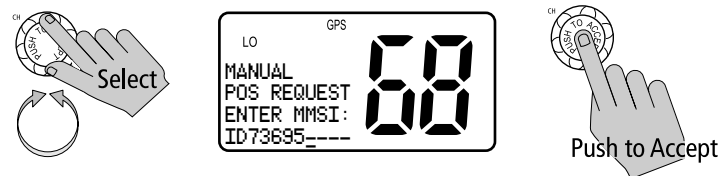
4. Push the **CH** knob to select SEND.



5. Press the **CH** knob again to select MANUAL.



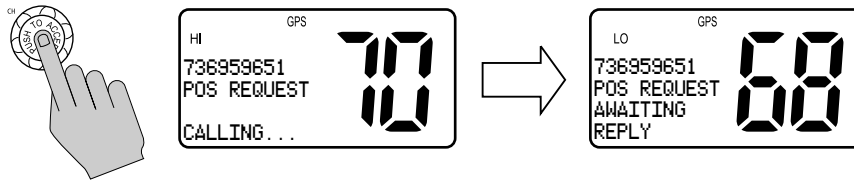
6. Enter the MMSI number using the **CH** knob. Rotate the **CH** knob to select each character and then push the knob to accept.



7. When MMSI entry is complete, push in the **CH** knob to accept.

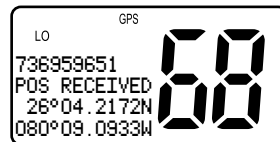


8. Press the **CH** knob again to send the Position Request Call. The Individual Call is transmitted on channel 70, and then the radio tunes to the original channel and waits for acknowledgement. During this period you are still able to receive calls.



**Note:** Pressing PTT at any time before reply is received cancels the Position Request. In this case, you must resubmit the request.

When the position request is received, the Ray54 shows that the call has been completed and displays the lat/lon data for the requested vessel.



The radio sounds a Call Alert Ringing. Press any key to mute the ringing alarm. In the event that an alarm is not cancelled manually, the alarm shuts off automatically after two minutes.

The position request information disappears when a key is pressed. You can retrieve the last received position using the LAST RECVD option.

## 5.7 Call Log

The Call Log is a list of all DSC received INDIVIDUAL, GROUP and ALL SHIPS call types by number and time of call. This does not include Distress calls, which are maintained in their own log. The Call Log maintains up to 20 calls.

If the calling vessel or station is listed in your DSC calling directory, the vessel or station name, as it is listed, appears in the display. If the caller is not listed in your directory, the caller's MMSI ID number appears in the display. Usually, the transceiver is set to a channel selected by the caller if a channel change request is accepted.



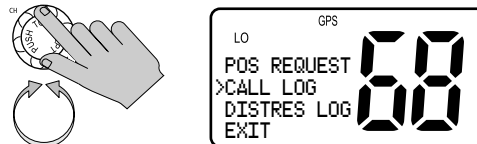
When a DSC call is received, the envelope icon appears on the LCD. The envelope icon disappears when the log is opened.

► To view the Call Log:

1. **Press and release** the **CALL/MENU** key to enter the DSC menu. The arrow is pointing to INDIVIDUAL.



2. Rotate the **CH** knob to until the arrow points to CALL LOG.



3. Push in the **CH** knob to select the Call Log. Entry 01 appears first with call type and time of the last call. This is the most recent call.




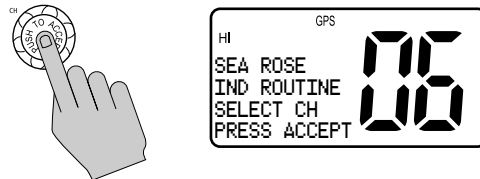
4. Using the **CH** knob, scroll down the list of up to 20 entries with the most recent call on the top of the stack.



### Making a Call from a Call Log Entry

You can make a routine Individual call to any caller listed in the log.

-  1. Rotate the **CH** knob until the log entry you wish to call appears.  
2. For received Individual or All Ships call, push the **CH** knob. The Individual Call screen appears addressed to the caller.



3. Follow the same directions you would for initiating an Individual Call using the Phonebook, as outlined on *page 40*.  
4. To make a Group Call using the Call Log, push the **CH** knob to bring up the Group Call menu.



5. Make the call as described in *Transmitting a Group Call* on *page 5-46*.



## Saving an MMSI ID Number from a Call Log Entry

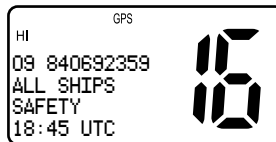
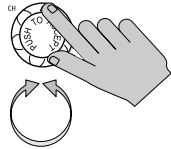
Any undefined MMSI number that is listed on an entry in the Call Log can be saved into the Phonebook.

*When the user presses SAVE key on already define MMSI ID or Group ID, the user will be prompted with an error beep sound.*

*After user successfully save/edit MMSI ID into the phone book, the radio will revert back to the call log menu.*



1. Rotate the **CH** knob to select the desired Call Log entry.



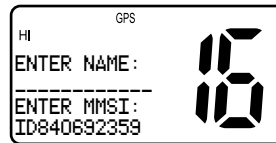
2. **Press and hold** the **SCAN/SAVE** key.

The MMSI number is entered in the appropriate field of the Phonebook.

**Note:** *If you press the SCAN/SAVE key for an entry whose MMSI ID or Group ID has already been defined, an error beep will sound.*

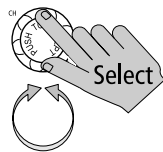


Press and hold

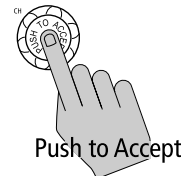
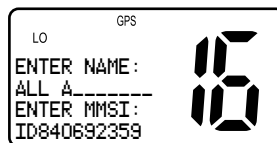


3. Use the **CH** knob to enter the NAME that you wish to have associated with this MMSI ID number. Rotate the **CH** knob to select each character and then push in the knob to accept it.

**Note:** *In this operation, only the Name field can be edited. You can only edit the MMSI ID from the Phonebook.*

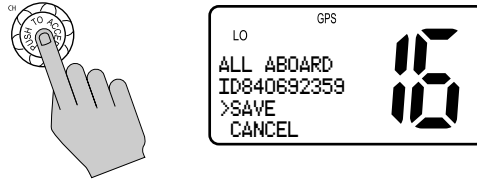


Select

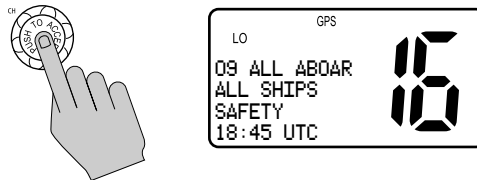


Push to Accept

4. When the NAME entry is complete, push in the **CH** knob to accept it.



5. Press the **CH** knob again to save the selection.



## 5.8 DSC Distress Log

The Distress Log is a list of all received DSC Distress Calls by number and time of call. The Log maintains up to 10 calls.



When a DSC Distress Call is received, the envelope icon blinks on the LCD. The envelope icon disappears when the log is opened.

- To view the Distress Call Log:

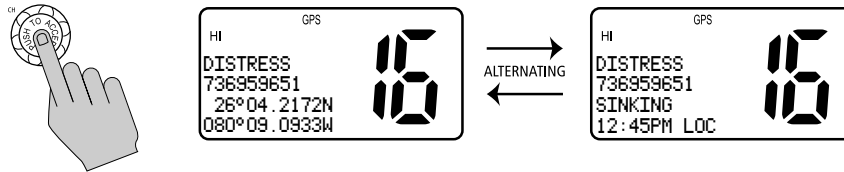
1. **Press and release** the **CALL/MENU** key to enter the DSC menu. The arrow is pointing to **INDIVIDUAL**.



2. Rotate the **CH** knob to until the arrow points to **DISTRES LOG**.



3. Push the **CH** knob to select the Distress Log. Entry 01 (the most recent call) appears first with call type and position data. The screen then flashes to display the nature of the distress and time of the call.



4. Rotate the **CH** knob to scroll down the list of up to 10 entries.

