

## 15.6 WATCH TYPE

This selects between “Dual Watch” and “Triple Watch”. The default setting is “Dual Watch”.

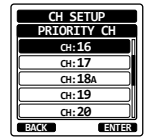
Refer to section “9.8 MULTI WATCH (TO PRIORITY CHANNEL)” for details.

## 15.7 PRIORITY CHANNEL

This procedure permits setting a different priority channel to be used when priority scanning. By default, the radio priority channel is set to Channel 16.



1. Press the **CH▼/CH▲** key to select the desired priority channel.
2. Press the **[ENTER]** soft key to store the new setting.
3. Press the **CLR** key to return to radio operation.

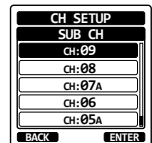


## 15.8 SUB CHANNEL

By default, the sub channel is set to Channel 9. This procedure allows assignment of a different sub channel for instant access.



1. Press the **CH▼/CH▲** key to select another channel to designate as sub channel.
2. Press the **[ENTER]** soft key to store the new setting.
3. Press the **CLR** key to return to radio operation.



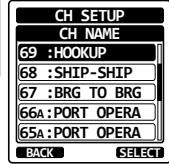
## 15.9 CHANNEL NAME

When the **HX890** “Normal” mode is selected, the display will show a name under the channel number. This name describes the use of the channel. The channel names may be customized using the below procedure.

**Example:** CH69 PLEASURE to HOOKUP



1. Press the **CH▼/CH▲** key to select the channel to renamed, then press the **[SELECT]** soft key.
2. Press the **CH▼/CH▲** key to scroll to the first letter of the new channel name.
3. Press the **[SELECT]** soft key to store the first letter of the name and step to the next letter to the right.
4. Repeat step 2 and 3 until the name is complete. The name can consist of up to 16 characters, if you do not use all 16 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 the channel name, press the **CH▼/CH▲/◀/▶** key to select “←” or “→”, press the **[SELECT]** soft key until the wrong character is selected, then perform steps 2 and 3.
5. Press the **[FINISH]** soft key to save the name.
6. To enter the name of another channel, repeat the steps 1 through 5.
7. Press the **CLR** key to return to radio operation.



### NOTE

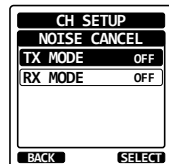
When “CHANNEL NAME” is assigned to a soft key, the channel name input may be displayed directly by pressing the **[NAME]** soft key during radio operation.

## 15.10 NOISE CANCELLATION

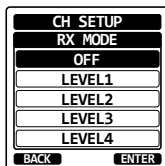
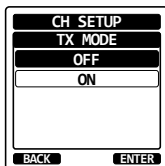
Independently enables/disables the Noise-canceling function of the transmitter and the receiver.



1. Select “TX MODE” with the **CH▼/CH▲** key, then press the **[SELECT]** soft key.



2. Press the **CH▼/CH▲** key to select “ON” or “OFF”, then press the **[ENTER]** soft key.
3. Select “RX MODE” with the **CH▼/CH▲** key, then press the **[SELECT]** soft key.
4. Select the noise cancelling level from “Level 1” through “Level 4” or “OFF” with the **CH▼/CH▲** key, then press the **[ENTER]** soft key.
5. Press the **CLR** key to return to radio operation.

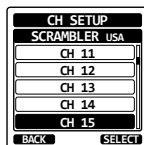


## 15.11 SCRAMBLER SETUP

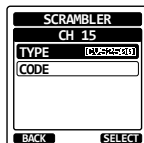
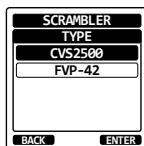
Configure the voice scrambler setting. Two types of voice scrambler functions are available: the 4-code type (CVS2500A compatible) and the 32-code type (FVP-42 compatible for Furuno Electric FM-4721) (The scrambler is not available for CH16 and CH70).



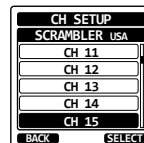
1. Press the **CH▼/CH▲** key to select the channel to be scrambled, then press the **[SELECT]** soft key.



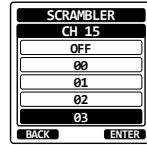
2. Press the **[SELECT]** soft key.
3. Press the **CH▼/CH▲** key to select “CVS2500” or “FVP-42”, then press the **[ENTER]** soft key.
4. Press the **CH▼/CH▲** key to select “CODE”, then press the **[SELECT]** soft key.



5. Press the **[SELECT]** soft key.



- Press the **CH▼/CH▲** key to select the scrambler code. The scrambler code can be set from “00” to “03” or “OFF” (When FVP-42 is selected in step 3, the scrambler code can be set from “00” to “31” or “OFF”). When “OFF” is selected the voice scrambler is disabled.



- Press the **[ENTER]** soft key to store the selected code.
- Repeat steps 5 through 7 to set other channels.
- Press the **CLR** key to return to radio operation.

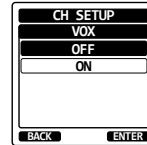
## 15.12 VOX OPERATION

The procedures below allow you to set up the VOX operation when utilizing an optional VOX headset purchased from a third-party vendor.

### 15.12.1 Enabling the VOX Operation



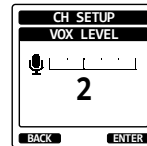
- Press the **CH▼/CH▲** key to select “ON” or “OFF”, then press the **[ENTER]** soft key to store the new setting.
- Press the **CLR** key to return to radio operation.



### 15.12.2 Setting the VOX Level



- Press the **CH▼/CH▲** key to select the desired activation level. The level can be set from “0” to “4” (“2” is default).
- Press the **[ENTER]** soft key to store the new setting.
- Press the **CLR** key to return to radio operation.



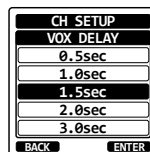
#### NOTE

During setup the VOX level can be seen directly by speaking into the microphone while the VOX operation is enabled.

### 15.12.3 Setting the VOX Delay Time



1. Press the **CH▼/CH▲** key to select the desired VOX delay time from “0.5sec”, “1.0sec”, “1.5sec”, “2.0sec” or “3.0sec”.
2. Press the **[ENTER]** soft key to store the new setting.
3. Press the **CLR** key to return to radio operation.

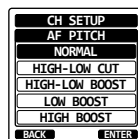


### 15.13 AUDIO FILTER OPERATION

This menu item allows selecting the internal audio filter for most comfortable listening.



1. Press the **CH▼/CH▲** key to select the desired filter operation.
2. Press the **[ENTER]** soft key to store the new setting.
3. Press the **CLR** key to return to radio operation.



### 15.14 SUMMARY OF THE CHANNEL FUNCTION SETUP

Item	Description	Default Value
CH GROUP	Selects the channel group	USA: USA version INTL: Europe version CAN: Canada version*
WX ALERT	Turns the Weather Alert function ON or OFF	OFF
SCAN MEMORY	Add or remove a Scan Memory channel	-
SCAN TYPE	Select priority scan or memory scan	PRIORITY
SCAN RESUME	Sets the scanning resume time	2 sec
MULTI WATCH	Selects Dual Watch or Triple Watch	DUAL
PRIORITY CH	Selects a priority channel	CH16
SUB CH	Selects a Sub Channel	CH09
CH NAME	Edit the name of memory channels	-
NOISE CANCEL	the noise cancelling function ON or OFF (Set independently for transmit and receive)	OFF
SCRAMBLER	Configures the secret communication settings	TYPE: CVS2500 CODE: OFF
VOX	Turn on or off the VOX function	OFF
VOX LEVEL	Selects the VOX gain	2
VOX DELAY	Selects the VOX delay time	1.5 sec
AF PITCH	Selects the audio filter operation	Normal

\*(When setting the region, the selected European Channel Group will be displayed instead of “CANADA”. For details, refer to the Note on Setting the Region on the separate yellow insert sheet.)

## 16. DSC SETUP

### 16.1 INDIVIDUAL DIRECTORY

The **HX890** has a DSC directory where the names of vessels or persons, and the associated MMSI that you wish to contact via Individual Calls, Position Requests and Position Report transmissions, may be stored in memory.

To transmit an Individual Call, this directory must be programmed with information of the vessel you wish to contact, similar to a cellular phone's telephone directory.

Refer to section "**11.5.1 Setting up the Individual Call Directory**" for details.

### 16.2 INDIVIDUAL REPLY

The radio can be setup to automatically (default setting) or manually respond to a DSC Individual call that requests you to switch to a working channel for voice communications. When "MANUAL" is selected the MMSI of the calling vessel is shown on the display allowing you to see who is calling and decide if you want to switch to the working channel and reply. This function is similar to caller id on a cellular phone.

Refer to section "**11.5.2 Setting up the Individual Call Reply**" for details.

### 16.3 INDIVIDUAL ACKNOWLEDGMENT

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

Refer to section "**11.5.3 Enabling the Individual Call Acknowledgment**" for details.

### 16.4 INDIVIDUAL RINGER

A telephone like ring may be set to alert you that the radio has received a DSC individual call. The default setting is 2 minutes, however this can be changed to 5, 10 or 15 seconds with the procedure below.

Refer to section "**11.5.6 Setting up the Individual Call Ringer**" for details.

### 16.5 GROUP DIRECTORY

For this function to operate, the same group MMSI must be programmed into all the DSC VHF radios within the group of vessels that will be using this feature.

Refer to section "**11.6.1 Setting up a Group Call**" for details.

### 16.6 POSITION REPLY

The **HX890** can be set up to automatically (default setting) or manually send your position when requested by another vessel. This selection is important if you are concerned about someone polling the position of your vessel that you may not want to. In the manual mode you will see the MMSI (Maritime Mobile

Service Identity Number) or persons name shown on the display allowing you to choose to send your position to the requesting vessel.  
Refer to section ““11.7.3 Setting up Position Reply”” for details.

## 16.7 AUTO POS POLLING

The **HX890** has the capability to automatically track seven vessels programmed into the individual directory.

Refer to section “11.9 AUTO POS POLLING” for details.

## 16.8 AUTO POS INTERVAL

The auto position polling time interval between position request transmissions, may be programmed into the individual directory setup.

Refer to section “11.9.2 Setting up the Polling Time Interval” for details.

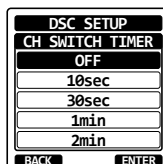
## 16.9 CHANNEL SWITCH TIMER

When a DSC Distress Alert or an all ships (urgency or safety) call is received, the **HX890** will automatically switch to Channel 16.

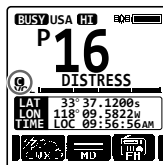
This menu selection allows the automatic switch time to be changed. The default selection is 30 seconds.



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



When the “OFF” is selected, “C” icon will light up on the screen.



## 16.10 NO ACT (ACTION) TIMER

If no key is pressed during the “MENU” or “DSC CALL” setup screen, the **HX890** will automatically return to radio operation.

The default selection is 15 minutes.



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



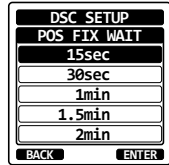
## 16.11 WAIT TIME FOR POSITION FIX

This menu allows selection of the maximum wait time for obtaining the position information when receiving a Distress Alert, a POS Report call, or an acknowledgement to POS request call.

The default selection is 15 seconds.



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



## 16.12 DSC BEEP

When a DSC call is received, the alarm beeps may be turned ON or OFF. The DSC calls that can be customized are: individual, group, all ships, position request, and position report.

Refer to section “11.6.4 Setting up the Group Call Ringer” for details.

## 16.13 SUMMARY OF THE DSC SETUP MENU

Item	Description	Default Value
INDIVIDUAL DIR.	Enter or edit addresses used for individual calls	–
INDIVIDUAL REPLY	Selects a reply to an individual call	MANUAL
INDIVIDUAL ACK.	Selects the message to be sent automatically as an individual call acknowledgement	ENABLE
INDIVIDUAL RING	Selects the ringing time when an individual call or a position request is received	2 min
POSITION REPLY	Selects reply mode when receiving a position call	AUTO
GROUP DIR.	Enter or edit addresses used for group calls	–
AUTO POS POLLING	Selects the AUTO POS POLLING operation type	AUTO POS REPORT
AUTO POS TIME	Selects the transmission interval of AUTO POS POLLING signal	30 sec
CH SWITCH TIMER	Selects the delay time before automatically moving to the requested channel automatically after receiving a Distress Alert, All Ship call, or group call	30 sec
NO ACT (ACTION) TIMER	Selects the delay time to return to radio operation automatically after no key press	15 min