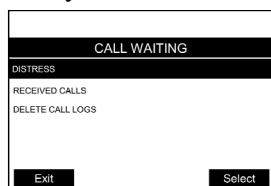


Pressing the WPT key when on the position information status screen will create a waypoint with those GPS coordinates and move the radio into the compass navigation screen with the current waypoint displayed on screen. This waypoint will also be saved as a waypoint within memory as the name used for the position request (Individual Entry 1). Pressing the Exit key when on the position information status screen will exit the radio back to VHF standby mode.

Call Waiting:

Call waiting is used to store incoming calls. When an entry is saved in the call waiting log, the “Envelope” icon is displayed on the radio idle screen in the closed position. After ALL calls in the call waiting log have been viewed, then the “Envelope” icon will be displayed as open. When there are no messages in the call waiting log, or all log entries have been deleted, then the “Envelope” icon will not be displayed on the VHF standby screen. When in the call waiting menu, the user has three options to choose from.

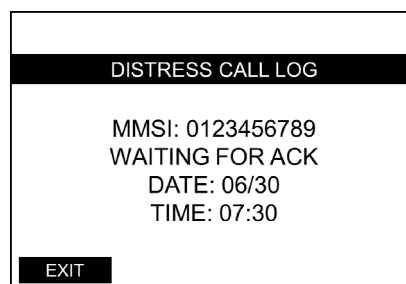
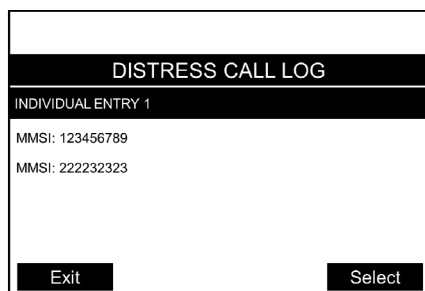
- Distress
- Received Calls
- Delete Call Logs



Entering the distress section of the call waiting menu will bring up a list of the last 20 DSC distress calls. The radio MUST be able to store at least 20 DSC Distress Calls. When the call log has 20 entries and the radio receives a new call, the oldest log entry will be overwritten. Selecting a highlighted DSC distress call will bring up a detailed log entry screen of that DSC call. The following information will be displayed on the detail log entry screen.

- MMSI # or Name (If saved as a record in Individual/Group Directory)
- Status of Call (Waiting for ACK, ACKNOWLEDGED)
- DATE: (MM/DD for US Models, DD/MM for EU Models)
- TIME: (HH:MM)

Pressing the EXIT key when on the detail log entry screen will return the radio to the Distress call log.



Entering the received calls section of the call waiting menu will bring up a list of the last 20 non-distress DSC calls. The radio **MUST** be able to store at least 20 non-distress DSC Calls. When the call log has 20 entries and the radio receives a new call, the oldest log entry will be overwritten. Selecting a highlighted received DSC call will bring up a detailed log entry screen of that received DSC call. The following information will be displayed on the detailed log entry screen.

RECEIVED CALL LOG	
INDIVIDUAL ENTRY 1	
MMSI: 123456789	
MMSI: 222232323	
Exit	Select

RECEIVED CALL LOG	
MMSI: 0123456789	
WAITING FOR ACK	
DATE: 06/30	
TIME: 07:30	
EXIT	

Entering the delete call logs section of the call waiting menu will bring up the option for the user to delete either distress or received DSC calls. When entering either distress or received DSC calls section of the delete call logs menu, the user will be prompted to delete the respective call logs. Pressing ENT from this delete prompt will delete all entries in the log and return the radio to the delete call log menu screen. Pressing the EXIT key anytime will return the radio to the delete call log screen.

DELETE CALL LOGS	
DISTRESS	
RECEIVED CALLS	
Exit	Select

DELETE DISTRESS CALLS	
DELETE DISTRESS CALL LOG?	
EXIT	ENT

DELETE DISTRESS CALLS	
DELETE RECEIVED CALL LOG?	
EXIT	ENT

Test Call:

The test call function allows the user to confirm that the radio is fully operational and that the DSC call functions are working properly. The steps for initiating a call are the same as with Individual Call, except that the transmitted message is TEST CALL.

TEST CALL	
Manual	
Individual Entry #1	
Individual Entry #2	
Individual Entry #n	
Exit	Select

SELECT CHANNEL	
06	
08	
09	
10	
Exit	Select

TEST CALL	
TEST VOICE CALL ON CHANNEL 06 ?	
Exit	ENT

TEST CALL	
Individual Entry #1	
Waiting for ACK	
Elapsed Time 00:00	
Exit	RPT

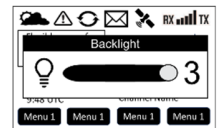
TEST CALL	
Individual Entry #1	
CONNECTED	
Elapsed Time 00:00	
Exit	

STAR – Press and hold the for 2 seconds to add current channel to the favorite channel list. Favorite channels will have the star icon displayed on the LCD screen when selected. If channel was already a favorite channel, remove from the favorite channel list and stop displaying the star icon on the LCD screen.

Press and release to cycle through the current saved list of favorite channels in ascending order. If there are no favorite channels saved when a press and release of the star function key is initiated, no action is taken by the radio.

NAV – Press and release the NAV softkey function to go to the compass navigation screen. From the compass navigation screen a user can save their current position as a waypoint and access the waypoint setup screen directly. Pressing the Exit softkey function when in the navigation screen will return the radio to the marine standby screen.

BACKLIGHT – Press to open the backlight brightness adjustment sub-menu. Use the LEFT/RIGHT arrow keys or rotate the power/volume/squelch knob to adjust the backlight brightness level. Close sub-menu if no action is taken by the user within 10 seconds.



LOG – Press to open the DSC received call log. See DSC section for additional details.

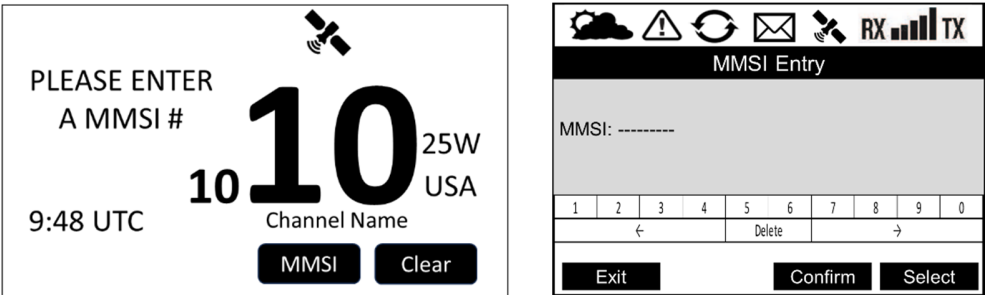
PA – Press to activate the Public Address option. Press the PA key again to exit the Public Address option. When PA is enabled, the output audio will be adjustable with the volume/squelch knob. While the PA option is active, pressing the PTT key will activate the external PA speaker (the internal radio speaker and the external speaker will be muted)

NAME – Press to edit the name of the displayed channel. Radio will bring up a “Channel Name Edit” screen that will allow users to edit the current channel name using the keyboard shown on the radio screen. The channel name can be a combination of numbers or letters. Press Confirm to save the new channel name and return to marine standby on selected channel.

*Radio cannot edit channel 16’s name or edit a channel name during Dual-Watch, Tri-Watch or Scan.

7. DISTRESS KEY OPERATION

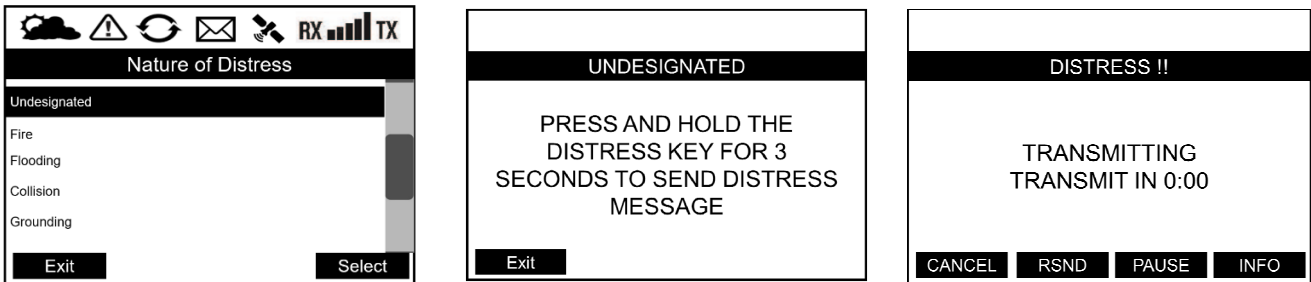
A MMSI number must be entered into the radio before any DSC features can be accessed. If the user tries to activate any DSC features and a MMSI number has not been entered into the radio, the radio will sound a warning beep and a notification prompt will appear on the standby screen asking a user to enter in a MMSI number. Once a MMSI number has been entered into the radio, all DSC features will be accessible by a user.



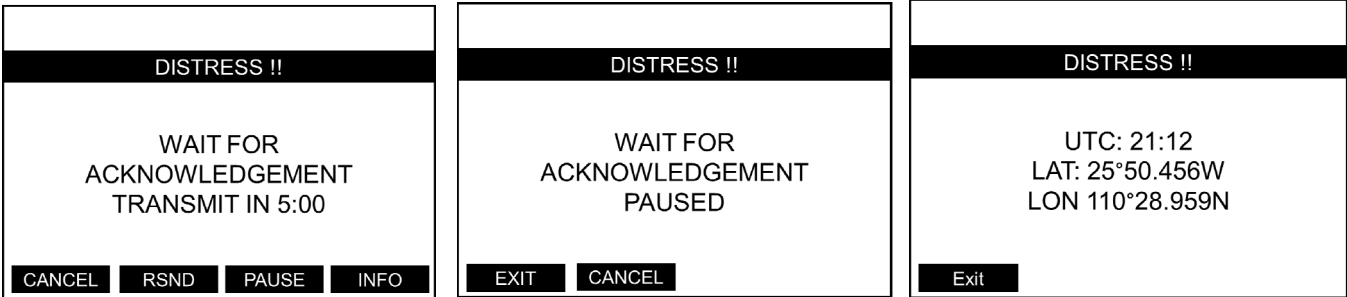
Press and release the red DISTRESS key to initiate a distress call. The radio will open a menu screen to allow the user to select the nature of their distress. The list should include (Undesignated, Fire, Flooding, Collision, Grounding, Listing, Sinking, Adrift, Abandoning, Piracy, Man Overboard, Exit). Use the UP/DOWN arrow keys to scroll through the list and select reason for distress and press the SELECT softkey or ENT button on radio to confirm selection.

Press and hold the DISTRESS key for 3 seconds after selecting to transmit the distress call at 25W. The Distress Alert Alarm will sound and a tranmission screen will show on the radio.

****(Consult reference regulatory documents listed in DTS for procedure details.)**



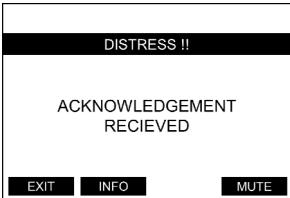
After distress has been transmitted, a screen will show waiting for distress acknowledgement. While waiting for an acknowledgement, the user has several options. Cancel the alert, resend the alert before the auto-resend timeout, pause the countdown to auto-resending, or to look at detailed information about the sent alert. The info must contain the distress information (nature of alert, time sent, latitude/longitude)



If the Distress alert is paused, the countdown timer to retransmission of the distress call message will be paused. The user can either cancel the call or return to the wait for acknowledgement screen.

If the GPS information is not available during transmission, the INFO box will show blank fields, but give the user the option to manually add in the information, to be sent out on the next subsequent distress transmissions.

After a period of time without acknowledgement, the radio will retransmit the distress alert and the countdown will begin again. If an acknowledgement has been received, the radio will sound the acknowledgement alarm and the screen will give confirmation of acknowledgement. Pressing info on this screen will display the MMSI of the agency that sent the acknowledgement.

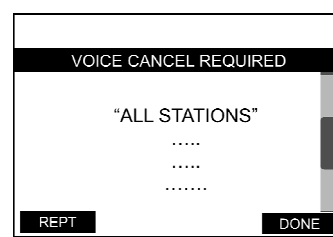


As a secondary backup, a user can also automatically initiate an UNDESIGNATED distress DSC message from the “Nature of Distress” page. When on the Nature of Distress page, pressing and holding the DISTRESS key for 3 seoncds will automatically move the radio into the undesignedat distress DSC transmit message page, prompting the user to hold the DISTRESS key down for an additional 3 seconds in order to transmit an undesignedat DSC distress message.

Cancelling Distress Call

A user can cancel a distress alert at anytime before an acknowledgement is received. Pressing the CANCEL button will prompt the user to cancel the distress call. After canceled call is transmitted, the user is required to follow-up with a voice transmission cancelling the distress call. The voice cancel must contain a specific statement listed in the regulatory documents. The statement should display on the screen for the user to read and broadcast out. After reading the statement, the user should select DONE on the radio menu, at which point the radio will return to the marine standby mode.

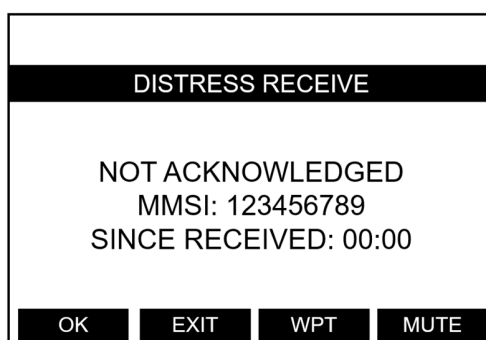
**Please refer to most recent version of regulatory documents referenced in DTS for specific required statement for VOICE CANCEL CALL*



Receiving a Distress Call

When receiving a distress call, include the following option.

- WPT – When receiving a DSC distress call there should be an option listed via softkey to set a WPT to the location provided by the distress call. Pressing the WPT softkey from within the RX distress DSC display will cause the radio to enter WPT navigation with the location of the distress call automatically created as a new waypoint and set on the compass navigation screen. Waypoint navigation would then function normally afterwards.
- Pressing any key will automatically mute the DSC alarm, but additionally there will be a softkey labeled MUTE for additional user clarity on silencing the DSC alarm on the radio.
 - Pressing the MUTE key will silence the DSC alarm but keep the radio on the DISTRESS RECEIVE status page.
 - If no action is taken by the user, the DSC alarm will automatically shut off after 2 minutes.
- When exiting the distress receive status page with either the OK or EXIT softkey, the radio should exit to channel 16.



Receiving a cancelled Distress Call

If the radio receives a DSC Distress Cancel packet, the LCD display should show the following.

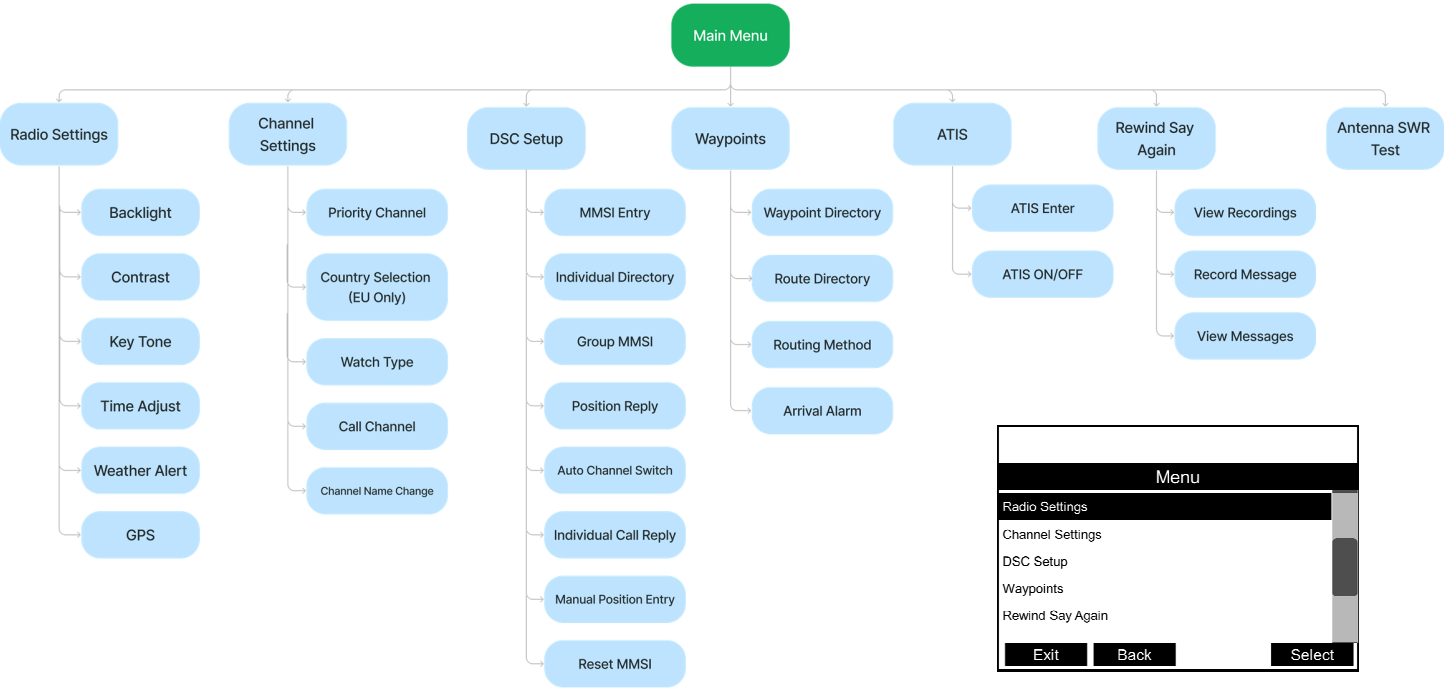
- Title showing “CANCEL FROM”
- MMSI #
- Time elapsed since cancel was received



When the user exits the DSC cancel status page, the radio will return to VHF standby on channel 16.

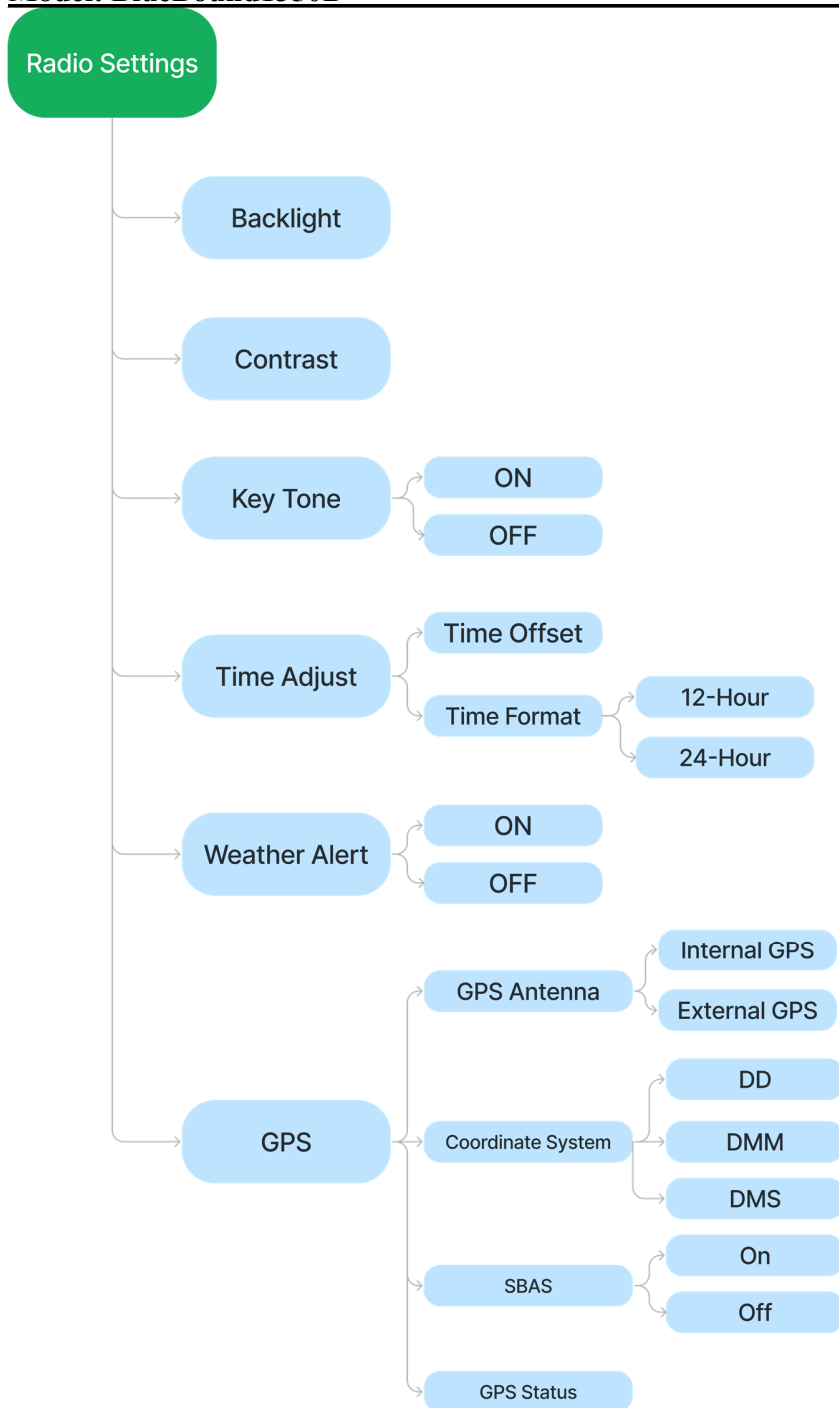
8. RADIO MAIN MENU

The main menu of the radio can be accessed by pressing the MENU button on the radio. The radio’s main menu will consist of the main menu selection options.



8.1. Radio Settings

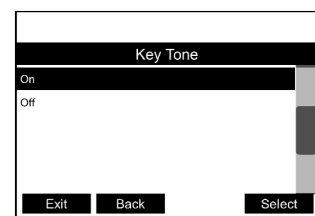
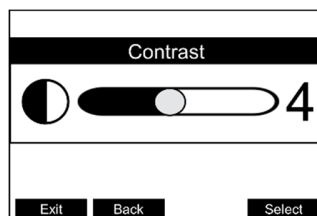
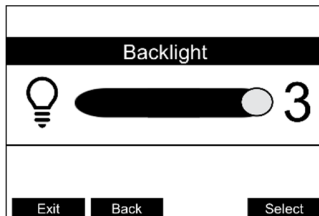
When adjusting radio settings, if the user presses the CLEAR button on the radio or the back softkey, the radio will move back one level within the menu tree.



Backlight – The radio LCD backlight is user adjustable. The settings are from 0-3 with a sliding bar as seen in the image. The backlight includes both the LCD and the keys, excluding the DSC key which must be always backlit. Use the LEFT/RIGHT arrow keys or the volume/squelch knob to adjust the

backlight setting to the desired level and press the ENT key or SELECT softkey on the radio to confirm the backlight level and return to menu screen. Default backlight level will be at highest setting.

**If a user sets backlight level to 0, the radio backlight will still come on at the lowest setting when any radio operation happens (signal receive, activating radio controls, etc.)*

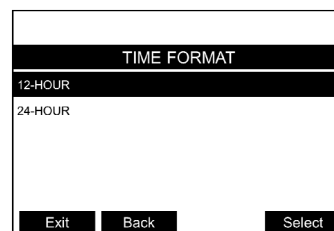


Contrast – The LCD contrast level is user adjustable. Settings are from 0-16 with the default setting being 8 and the adjustment level being shown as a sliding bar as seen in the image. Use the LEFT/RIGHT arrow keys or the volume/squelch knob to adjust the backlight setting to the desired level and press the ENT key or ENT softkey on the radio to confirm the contrast level and return to the menu screen.

Key Tone – User can select between ON and OFF for radio Key Tones. Key Tone is set to ON by default. When key tones are set to on, there will be an audio key tone heard from the internal radio speaker anytime a key is pressed. This tone is a fixed level output and does not vary with the current volume level.

Time Adjust – Time adjust setting allows the user to adjust the time offset from the time info which the GPS provides the radio and the format in which the time is displayed. The internal GPS or attached external GPS provides UTC (Universal Time Coordinated).

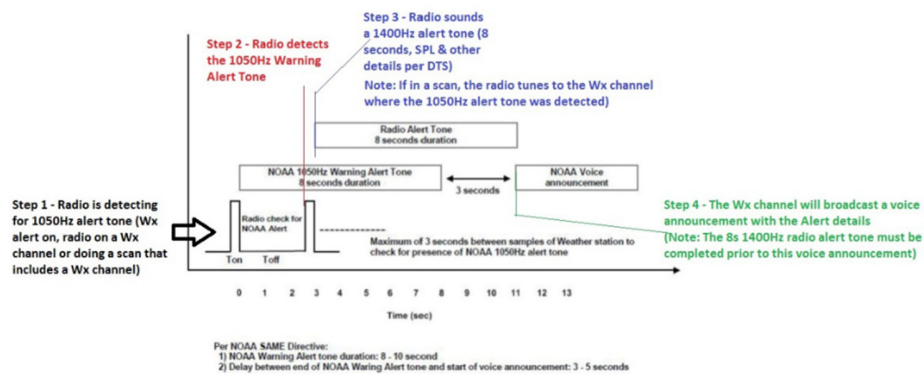
- **Time Offset:** Default time offset is 00:00. Time offset can be changed in increments of 00:30 (+0:30, +1:00, -0:30, -1:00, etc.) either positively or negatively by pressing the UP/DOWN arrow keys or using the volume/squelch knob. Press the ENT key or ENTER softkey to save selection and return to previous menu. Press the CLEAR key or Exit softkey to return to the previous menu.
- **Time Format:** Time format allows the user to set the time display on the radio standby screen to show either 12 or 24-hour time format. Default is 12-hour format.



Weather Alert (US Model Only) – Weather alert, when activated, will alert the radio user when NOAA sends out a 1050Hz Weather Alert tone. The user can choose between the ON and OFF options for weather alert.

- When set to ON, the LCD will show the triangle alert icon.
- The default for weather alert is OFF.

- The selected channel for Weather Alert is the last used channel in WX mode before returning to VHF standby mode.
- When the radio detects the 1050Hz Weather Alert tone on the current Weather Alert channel, the radio will sound the WX alarm tone (Set Volume of Tone to maximum sound without distortion) on the radio.



- 1 second on at 1400Hz, then 1 second off, repeating until the received warning alert tone has ended. (not to exceed 8seconds total of alert tone being played by the radio)
- As soon as the 1050Hz Weather Alert tone disappears, the radio will then change to the corresponding weather channel the WX Alert Tone was received on so that the user can hear the following weather broadcast.
- Volume on the weather broadcast will be at the same volume the radio is currently at in marine VHF standby mode.
- **Radio Alert Reset Time (60 Seconds):** Once the alert tone has been played by the radio, the radio weather alert tone shall be prevented from being played for at least 60 seconds.

WEATHER ALERT	
ON	
OFF	
Exit Back Select	

GPS Menu	
GPS Antenna	
Coordinate System	
SBAS	
GPS Status	
Exit Back Select	

GPS – The GPS menu option allows for the configuration of multiple different GPS related settings.

- **GPS Info Display:** This menu option allows the user to turn on or off the GPS information being displayed on the default VHF standby screen. If GPS Info Display is set to ON, then the GPS coordinates will be displayed on the LCD screen whenever the radio is in VHF standby mode. The format of these coordinates will depend on which Coordinate system has been selected by the user. Default setting for GPS Info Display is OFF.
- **GPS Antenna:** This menu option allows the user to select between using the internal GPS antenna or an external GPS antenna for GPS location data. Default is Internal GPS. If an external GPS antenna is connected, user will need to manually change the GPS setting from internal GPS to external GPS.
- **Coordinate System:** This menu option allows the user to chose which GPS coordinate system is used and displayed by the radio. The user can select between coordinate systems. Default is Decimal Degrees

- Decimal Degrees (DD) [48.85N, 2.2945E]
 - Degrees and Decimal Minutes (DMM)
 - Degrees, Minutes and Seconds (DMS)
- **SBAS (Satellite Based Augmentation System):** This setting allows the user to manually disable SBAS. SBAS is on by default.
- **Speed Measurement**
 - Knots
 - MPH
 - KM/H
- **Course UP/North UP**
- **Distance Measurement**
 - Statute Mile
 - Nautical Mile
 - Kilometer
- **GPS Status:** The GPS status menu will display information on the number of satellites being tracked and the current health of the satellite signals.

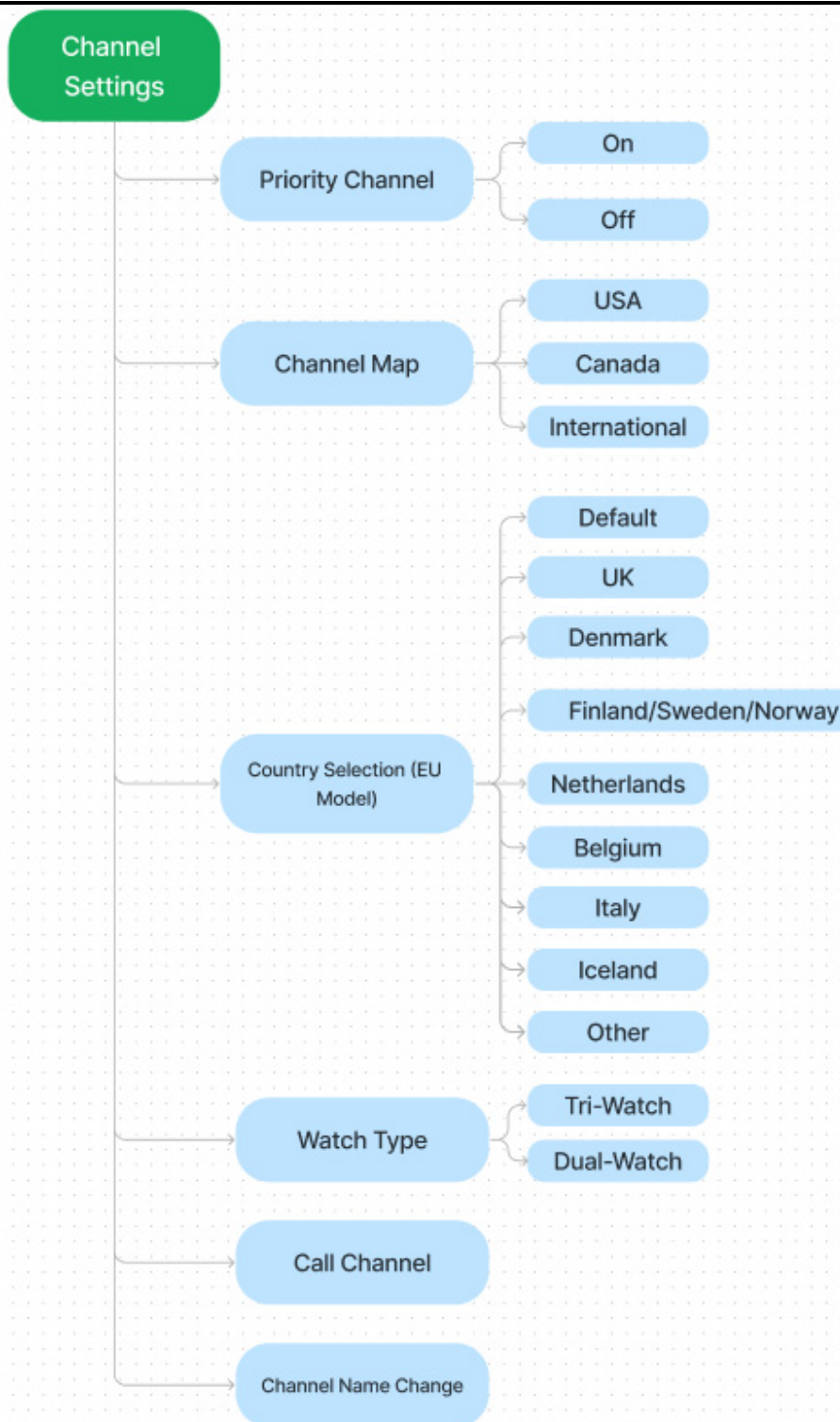
GPS	
Internal GPS	
External GPS	
Exit	Back Select

COORDINATE SYSTEM	
Decimal Degrees (DD)	
Degrees and Decimal Minutes (DMM)	
Degrees, Minutes and Seconds (DMS)	
Exit	Back Select

SAT BASED AUGMENTATION SYSTEM	
ON	
OFF	
Exit	Back Select

8.2. Channel Settings

When adjusting channel settings, if the user presses the CLEAR button on the radio or the back softkey, the radio will move back one level within the menu tree.



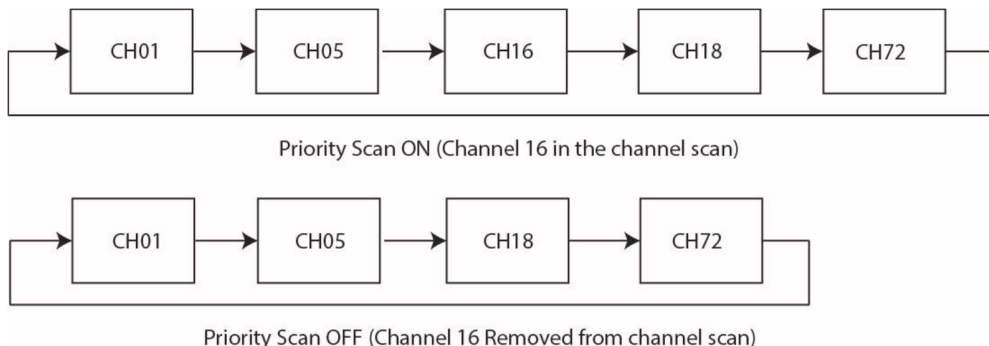
Priority Channel – This setting allows for the user to specify whether channel 16 will be included when using the Favorite channel scan feature. When priority channel is ON, then channel 16 is included in the

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channel scan (channel 16 is automatically included in Favorite channel scan by default). When priority channel is OFF, then channel 16 will not be included in the favorite channel scan unless it is manually added as a favorite channel.

PRIORITY CHANNEL	
ON	
OFF	
Exit	Back
Select	



Channel Map – This setting allows the user to select which channel map their radio will be set to. There are 3 channel maps to select from. USA, Canada and International. Default is USA for US models and International for EU models.

CHANNEL MAP	
USA	
Canada	
International	
Exit	Back
Select	

COUNTRY SELECTION	
United Kingdom	
Germany	
France	
Italy	
Spain	
Denmark	
Exit	Back
Select	

Country Selection (EU Model Only) –

EU models will have the option to select a specific country that will add in extra private and coast guard channels to the international channel list depending on what country was selected (see table below). The default international channel list will remain the same, and if no option is selected by the user after 10 seconds the radio will return to the VHF standby mode with no changes.

Accessing the Country Selection Option:

- Scroll to the Country Selection option within the Radio Settings menu.
- The list of countries will be shown in the menu that the user can select. The radio will be set by default to the DEFAULT selection, which has no additional channels added to the international channel list.
 - Default
 - UK
 - Denmark
 - Finland/Sweden/Norway
 - Netherlands
 - Belgium
 - Italy
 - Iceland

Radio Settings	
Waypoints	
Channel Settings	
DSC Setup	
Country Selection	
EXIT	SELECT

Country Selection	
Default	
UK	
Denmark	
Finland/Sweden/Norway	
Netherlands	
EXIT	SELECT

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- Other – (This will be the same as default)
- Depending on which country was selected, the radio will append extra channels to the end of the international channel list

UK:

Channel Designator	Country	Use	Special Ship TX / Country	Special Ship RX / Country
M1	UK	Private	157.850	157.850
M2	UK	Private	161.425	161.425
C0	UK	Coast Guard	156.000	160.600

Denmark:

Channel Designator	Country	Use	Special Ship TX / Country	Special Ship RX / Country
L1	Denmark	Private	155.500	155.500
L2	Denmark	Private	155.525	155.525
F1	Denmark	Private	155.625	155.625
F2	Denmark	Private	155.775	155.775
F3	Denmark	Private	155.825	155.825

Finland/Norway/Sweden:

Channel Designator	Country	Use	Special Ship TX / Country	Special Ship RX / Country
L1	Finland Norway Sweden	Private	155.500	155.500
L2	Finland Norway	Private	155.525	155.525

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	Sweden			
L3	Finland	Private	155.650	155.650
	Norway			
	Sweden			
F1	Finland	Private	155.625	155.625
	Norway			
	Sweden			
F2	Finland	Private	155.775	155.775
	Norway			
	Sweden			
F3	Finland	Private	155.825	155.825
	Norway			
	Sweden			

Netherlands:

Channel Designator	Country	Use	Special Ship TX / Country	Special Ship RX / Country
31	Holland	Private	157.550	162.150
37	Holland	Private	157.850	157.850

Belgium:

Channel Designator	Country	Use	Special Ship TX / Country	Special Ship RX / Country
31	Belgium	Private	157.550	162.150
96	Belgium	Private	162.425	162.425

Italy:

Channel Designator	Country	Use	Special Ship TX / Country	Special Ship RX / Country
A0	Italy	Coast Guard	157.425	157.425
A1	Italy	Coast Guard	157.450	157.450
A2	Italy	Coast Guard	157.475	157.475
A3	Italy	Coast Guard	157.500	157.500
A4	Italy	Coast Guard	157.525	157.525
A5	Italy	Coast Guard	157.550	157.550
A6	Italy	Coast Guard	157.575	157.575
C0	Italy	Coast Guard	155.450	155.450
C1	Italy	Coast Guard	155.500	155.500
C2	Italy	Coast Guard	155.550	155.550
C3	Italy	Coast Guard	155.650	155.650
C4	Italy	Coast Guard	155.750	155.750
C5	Italy	Coast Guard	155.850	155.850
C6	Italy	Coast Guard	155.900	155.900
C7	Italy	Coast Guard	155.925	155.925
C8	Italy	Coast Guard	155.950	155.950
C9	Italy	Coast Guard	155.975	155.975

Iceland:

Channel Designator	Country	Use	Special Ship TX / Country	Special Ship RX / Country
C1	Iceland SAR	Coast Guard	158.100	162.700
C2	Iceland SAR	Coast Guard	158.075	162.675
C3	Iceland SAR	Coast Guard	158.150	162.750