

C4	Iceland SAR	Coast Guard	158.175	162.775
C5	Iceland SAR	Coast Guard	157.975	157.975
C6	Iceland SAR	Coast Guard	157.775	157.775
C7	Iceland SAR	Coast Guard	157.725	157.725
C8	Iceland SAR	Coast Guard	157.650	157.650
C9	Iceland SAR	Coast Guard	158.200	162.800
A7	Iceland SAR	Coast Guard	158.225	162.825

After a country has been selected, the user can always select a new country by repeating the same process listed above and choosing their new country.

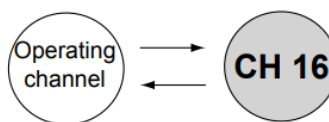
- Only 1 country can be selected at a time.
- If a country has been programmed by the CPS and has extra channels added to the international channel list, the user can still go into the country selection menu and select the DEFAULT option to return to the original default international channel list.
- If a user selects “**Other**” the radio will just use the default international channel list.
- If a user selects “**Default**”, the radio will use the standard international channel list with no additional channels appended.

Watch Type – This setting allows the user to choose either Dual-Watch or Tri-Watch to be used by the radio. Dual-Watch monitors channel 16 while receiving on another channel, while Tri-Watch monitors channel 16 and the call channel (Default channel 9 for US models) while receiving on another channel.

US models will have Tri-Watch set as default and EU models will have Dual-Watch set as default. To turn on Tri-Watch for EU models, the user will have to enter a call channel in the CALL CHANNEL setup menu. If no call channel has been entered by a user previously on EU models and Tri-Watch is selected, the radio will automatically go to the call channel setup menu and prompt the user to enter a call channel, after which the radio will operate Tri-Watch as usual.

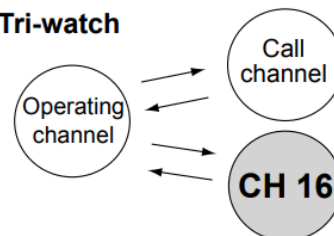
WATCH TYPE	
Tri-Watch	
Dual-Watch	
Exit Back Select	

Dualwatch



Monitors Channel 16 while receiving on another channel.

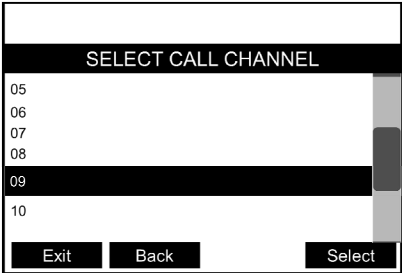
Tri-watch



Monitors Channel 16 and the Call channel while receiving on another channel.

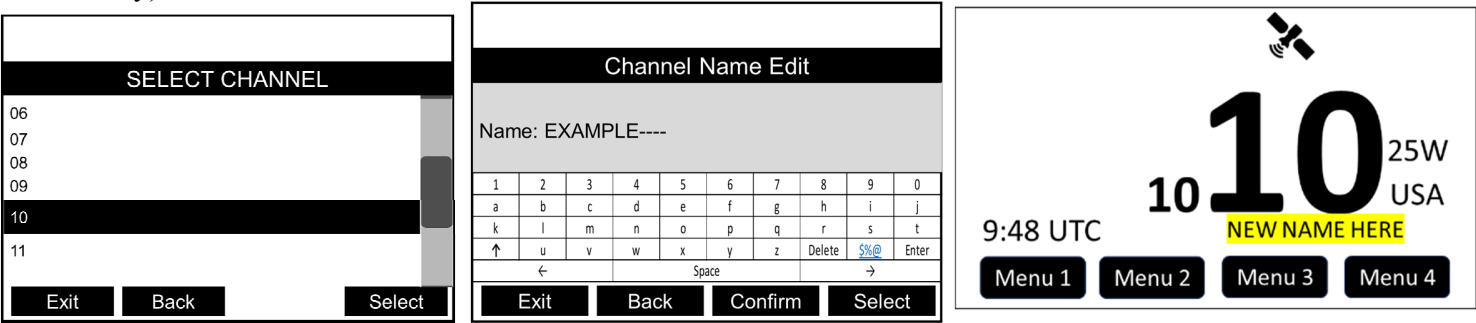
Call Channel – This setting allows the user to select the call channel to be monitored by the radio when Tri-Watch is enabled. By default, it is channel 9 for US models and empty for EU models until a user selects a call channel from the channel list.

*The call channel can only be selected from the current list of active channels on whatever channel map they are actively using.



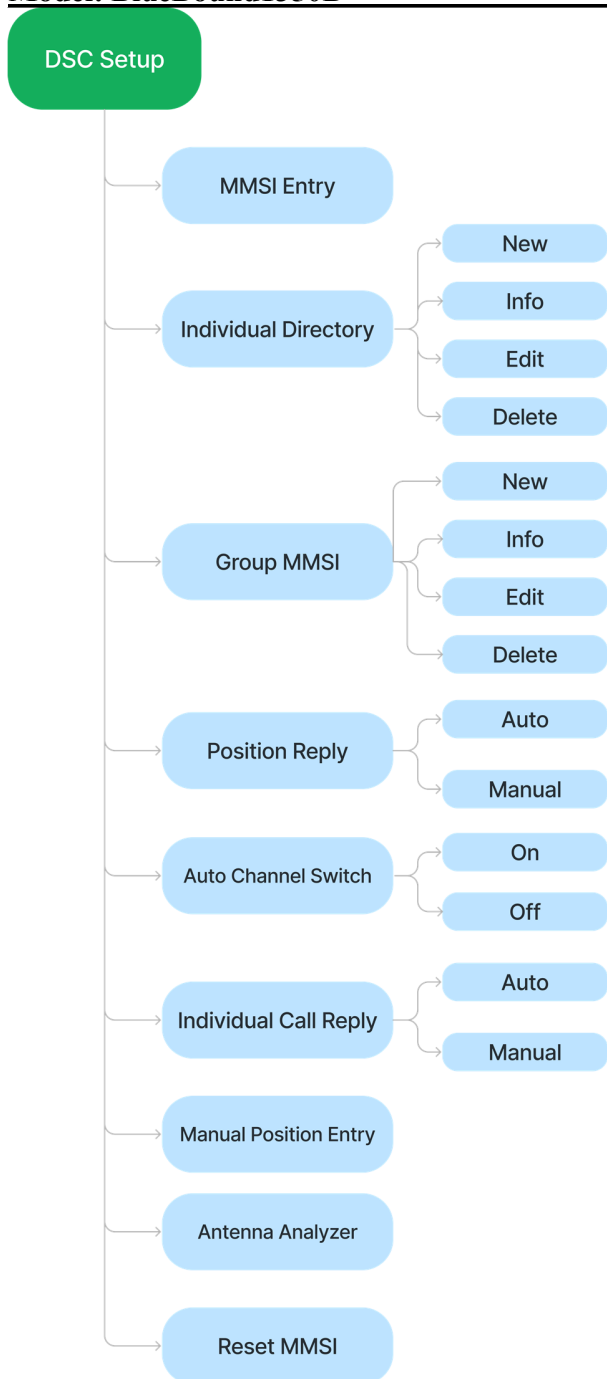
Channel Name Change – This setting allows users to change the display name of the channel as it is seen on the LCD when in marine standby mode. Users can select the channel any channel from the current channel map they are using (Except Channel 16) and enter the channel naming menu to rename the channel to whatever alphanumeric name they choose. After saving the channel name into the radio’s memory, the new channel name will show on the radio LCD whenever that channel is selected in marine standby mode.

*When entering channel name edit screen, the current channel name will populate into the NAME window along with a keyboard for a user to enter in their new channel name (alphanumeric characters only).



8.3. DSC Setup

For a full listing of DSC requirements and standards, please consult the most up-to-date copy of the ITU-R M.493 standards on Digital selecting-calling system for use in the maritime mobile service. This standard will define how certain DSC functions must operate in order for the Class-D DSC radio to be complaint.



MMSI Entry – If a user has not entered their MMSI number into the radio, they will be prompted on startup every time the radio is powered on with the “PLEASE ENTER MMSI” standby screen until they either hit the OK softkey or enter their MMSI number into the Radio.

Additionally, the user can at any time enter the radio’s menu and manually enter in their MMSI number through the MMSI setup screen, found in the DSC Setup menu. Once a MMSI number has been entered,

a user cannot enter a new MMSI number without using the CPS or contacting Cobra customer service for the MMSI reset combination. MMSI Entry at that point will just show the current MMSI number that has been entered into the radio. **The RESET MMSI MENU OPTION WILL ONLY BE ACCESSABLE WITH A SPECIFIC BUTTON PRESS ON RADIO STARTUP. (LEFT SOFTKEY AND REWIND SAY AGAIN ON RADIO POWER UP)**

*Radio will only save the MMSI number if a 9-digit number has been entered into the MMSI entry screen. Additionally, a final confirmation sub-window will popup asking for final confirmation from the user before the MMSI number is saved by the radio.

WARNING, DSC IS
DISABLED! PLEASE
ENTER A MMSI #

9:48 UTC

101025W
Channel Name
USA

MMSI

OK

DSC SETUP

MMSI ENTRY

Individual Directory

Group MMSI

Position Reply

Auto Channel Switch

Exit

Back

Select

MMSI Entry

MMSI: -----

1	2	3	4	5	6	7	8	9	0
---	---	---	---	---	---	---	---	---	---

←Delete→

Exit

Back

Confirm

Select

Individual Directory – The individual directory will allow users to save entries of names & MMSI numbers that can be used by the radio to perform DSC calls (see ITU document for additional reference). The radio will allow users to add new names to the individual directory list, edit existing names and delete names from the individual directory list.

Each entry in the list must have both a Name and proper 9-digit MMSI number entered into the record to be saved into the individual directory list.

INDIVIDUAL DIRECTORY

Name 1

Name 2

Name 3

Name 4

Name 5

Exit

Back

New

Select

☁⚠️🔄✉️📶RX TX

Name #

INFO

EDIT

DELETE

Exit

Back

Select

ADD NEW ENTRY

Name: -----

MMSI: -----

1	2	3	4	5	6	7	8	9	0
a	b	c	d	e	f	g	h	i	j
k	l	m	n	o	p	q	r	s	t
↑	u	v	w	x	y	z	Delete	%@	Enter

←Space→

Exit

Back

Confirm

Select

EDIT ENTRY

Name: -----

MMSI: -----

1	2	3	4	5	6	7	8	9	0
a	b	c	d	e	f	g	h	i	j
k	l	m	n	o	p	q	r	s	t
↑	u	v	w	x	y	z	Delete	%@	Enter

←Space→

Exit

Back

Confirm

Select

Group MMSI – The radio is also able to store group MMSI entries into a list, which can also be used to preform DSC calls in the same manner that the individual entries can be used. Adding, editing, deleting and reviewing group MMSI entries within the group MMSI directory is handled in the same way as the individual directory.

GROUP MMSI			
Group 1			
Group 2			
Group 3			
Group 4			
Group 5			
Exit	Back	New	Select

Position Reply – The position reply setting will allow the user to setup the radio to automatically reply to a calling radio with the current position or alert the user that a position request has been received. This will allow the user to determine if they want to send the position reply or not. When the setting has been set to AUTO and the GPS is active, the radio will automatically send the position reply message to the calling radio. If MANUAL has been selected or there is no active GPS information available, the user will be prompted to enter the current GPS information manually. (Position reply is set to auto by default).

*While in manual mode, the radio will prompt the user to enter the GPS information into the radio when receiving a position request, however the user will still have the option to exit and return to the marine standby mode if they are unable to enter the GPS information into the prompt screen.

POSITION REPLY		
AUTO		
MANUAL		
Exit	Back	Select

POSITION REQUEST										
MANUAL GPS ENTRY										
LAT: --° --' ---"N										
LONG: ---° --' ---"E										
1	2	3	4	5	6	7	8	9	0	
N	S	Delete			←		→			
Exit	Back	Confirm	Select							

AUTO CHANNEL SWITCH		
ON		
OFF		
Exit	Back	Select

Auto Channel Switch – When receiving a DSC call, part of the message should contain a request to change the channel to a working channel. This setting allows the user to set whether the radio will automatically change to the requested working channel when receiving a DSC call or require the user to manually change to requested channel. When set to ON, the radio will automatically switch to the requested working channel when receiving a DSC call with such a request. When set to OFF, this feature will be disabled. Default is ON.

Individual Call Reply – When receiving a DSC call, the user may not want the radio to reply to the call automatically. This feature allows the user to disable the automatic reply. When set to AUTO, the radio will automatically respond to a DSC call. When set to MANUAL, the user will be prompted to reply to a DSC call when received, which can be manually responded to or exited to return to the marine standby screen. Default is set to AUTO.

INDIVIDUAL CALL REPLY		
AUTO		
MANUAL		
Exit	Back	Select

CALL REPLY		RX	
MANUAL		16	
UNABLE		25W USA	
9:48 UTC		Channel Name	
EXIT	^	V	ENTER

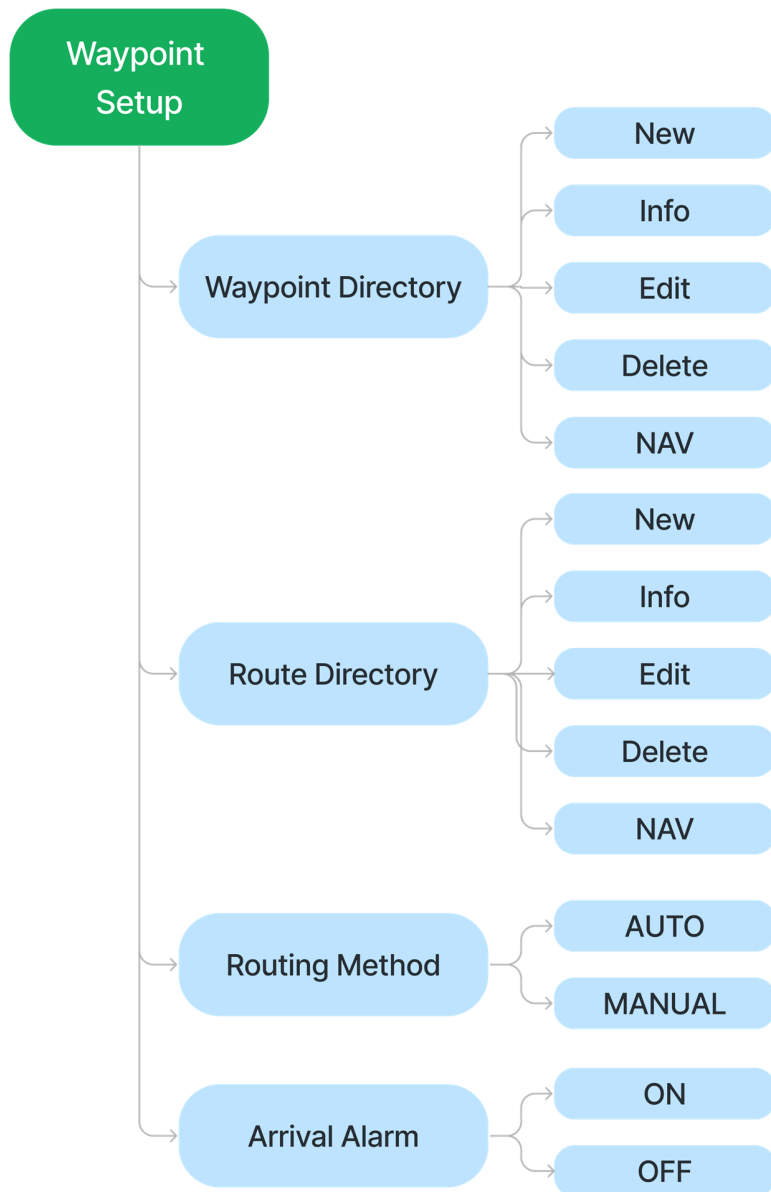
MANUAL POSITION ENTRY										
UTC: -- : --										
LAT: --° --' ---"N										
LONG: ---° --' ---"E										
1	2	3	4	5	6	7	8	9	0	
N	S	Delete			←		→			
Exit	Back	Confirm	Select							

Manual Position Entry – Allows the user to manually enter their GPS coordinates into the radio.

MMSI Reset – On entering the MMSI Reset menu setting, a prompt will appear asking the user to contact Cobra customer support to reset the MMSI number if one has already been entered into the radio. While in this prompt, pressing the right button combination (TBD) for 5 seconds will reset the radio's MMSI number, show a new prompt stating that the MMSI number has been reset, and immediately taking the user into the MMSI entry setup menu. If the right button prompt has not been press and held by the user for 5 seconds, the radio will return to the marine standby screen.

8.4. Waypoint Setup

This section of the radio menu will encompass individual waypoint setup, route setup, routing method and display range for the navigation compass that is used when the user is navigating to waypoints with the radio.



Waypoint Directory – Allows the user to enter in waypoints into a directory that can be selected as a point to navigate to when using the navigation compass screen or as part of a larger route with multiple waypoints. Waypoints are added, edited, viewed, and deleted in the same manner as other directory lists. Additionally, there is a softkey option NAV that a user can choose to directly put a waypoint into the navigation screen and immediately begin navigating towards.

Waypoints can either be entered manually from the waypoint directory or saved when using the compass by pressing the WPNT softkey function.

When setting up a waypoint, the full keyboard will be shown when selecting the name, but for LAT/LONG entry only the smaller keyboard will display.

Waypoint Directory

Waypoint 1

Waypoint 2

Waypoint 3

Waypoint 4

Waypoint 5

EXITBACKNEWSELECT

WAYPOINT 1

INFO

EDIT

DELETE

ExitBackNAVSelect

Waypoint Setup

Name: -----

LAT: --° --' ---"N

LONG: ---° --' ---"E

1	2	3	4	5	6	7	8	9	0
a	b	c	d	e	f	g	h	i	j
k	l	m	n	o	p	q	r	s	t
↑	u	v	w	x	y	z	Delete	\$/@	Enter
←			Space				→		

EXITBACKCONFIRMSELECT

LAT Keyboard

1	2	3	4	5	6	7	8	9	0
N	S	Delete		←		→			

LONG Keyboard

1	2	3	4	5	6	7	8	9	0
E	W	Delete		←		→			

Route Directory – The route directory allows users to create routes using the saved individual waypoints from the waypoint directory. When a new route is created and given a name, a new screen appears prompting the user to add in waypoints to the newly created route.

- NAV softkey will begin the route in the navigation screen with the first waypoint in the route list. When each waypoint is reached, the radio will move to the next waypoint in the list in sequential order until the end of the list.

When editing a route, new softkey functions will show up to aid in adding waypoints to the route.

- ADD softkey function brings the user to the individual waypoint directory where they can select a waypoint to add to the route list. The new waypoint will be added after the currently highlighted waypoint in the menu screen.
- EDIT softkey function allows a user to select a current waypoint in the route list and change it to another waypoint.
- DELETE removes the selected waypoint from the route list.
- BACK saves the route list and brings a user back to the route directory list.

Route Directory

Route 1

Route 2

Route 3

Route 4

Route 5

EXITBACKNEWSELECT

ROUTE 1

INFO

EDIT

DELETE

ExitBackNAVSelect

Route 1 Waypoints

1: Waypoint 1

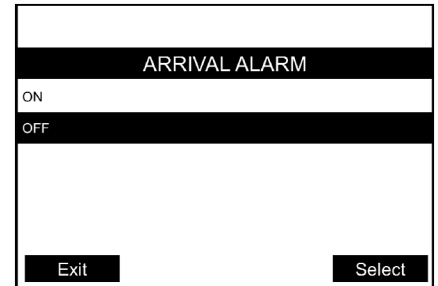
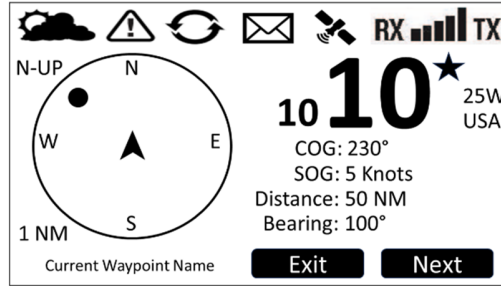
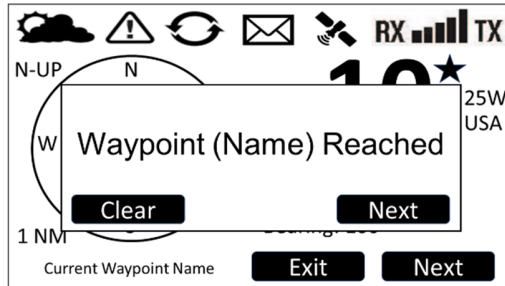
2: Waypoint 2

3: Waypoint 3

4: Waypoint 4

BACKADDEDITDELETE

Routing Method – The routing method setting will allow the user to change how the next waypoint is handled when the current waypoint is reached on a route. If routing method is set to MANUAL, navigation to the next waypoint will not start unless you press the NEXT softkey each time until you reach each waypoint destination. If the routing method is set to AUTO, navigation to the next waypoint will automatically start after arriving at the current waypoint.



**Note: The compass will automatically scale its distance up to a maximum (5NM) in order to keep the current waypoint properly in view on the compass for the user to see.*

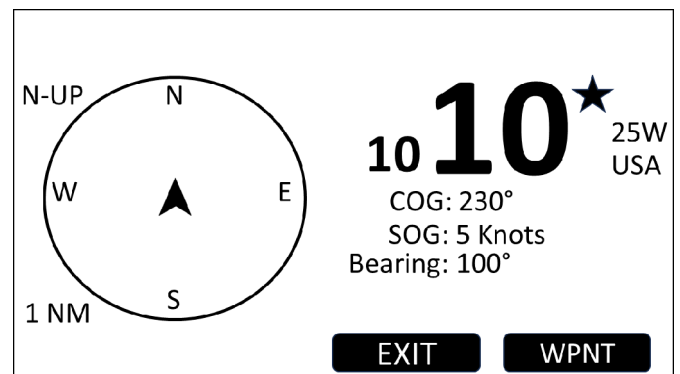
Arrival Alarm – When a user arrives at a waypoint destination, an arrival message will be displayed, and an alert will sound when Arrival Alarm is set to ON. This alert sound can be disabled in the menu settings by changing arrival alarm to OFF. By default, arrival alarm is set to OFF.

Navigation Screen

The navigation screen is the compass view that a user sees when navigating to a waypoint or using a saved route, but it can also be accessed directly by the user with the softkey function when the radio is in marine standby mode. While the radio is in navigation mode, a compass will display along with additional information for the user to see. 2 softkey functions will be available to the user when in the default navigation screen. EXIT will return the radio to marine standby mode. The WPNT function key will allow the user to save their current position as a new waypoint. When press and held for 2 seconds, the waypoint setup screen will be brought up with the current GPS coordinates populated. A user would then only need to enter in a name for the new waypoint to be saved into memory.

Navigation Screen Info:

- Compass
- Orientation direction and compass range scale
- Current Channel, Transmit Power, Channel Map
- COG: Course Over Ground
- SOG: Speed Over Ground
- Bearing
- Favorite Channel Star (if currently on fav channel)

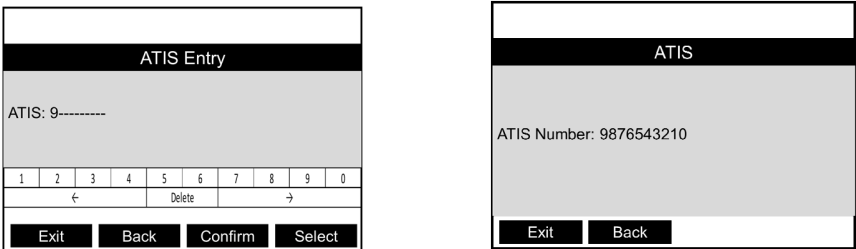


**Note: While in the default Navigation screen, a user can still change channels and transmit as normal.*

8.5. ATIS (EU MODEL ONLY)

This section of the radio menu will encompass ATIS setup as well as the ability for the user to turn ATIS on or off. **Note that once an ATIS number has been entered into the radio, a user will not be able to reset the ATIS number without support from Cobra customer care or by using the CPS software, similar to the MMSI number.*

ATIS ENTER – If an ATIS number has not already been programmed by the CPS software, the user will have the ability to enter their ATIS number into the radio directly. ATIS entry will behave like MMSI entry, with the entry screen automatically setting the first digit to 9 and allowing the user to enter in the remaining 9 digits themselves. Just like with MMSI entry, the radio will show a final confirmation sub-window popup asking for final confirmation from the user before the ATIS number is saved by the radio. Once an ATIS number has been entered into the radio, the display will instead show the current ATIS number saved into the radio’s memory.



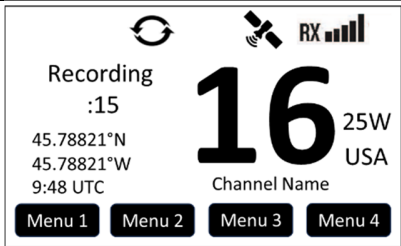
ATIS ON/OFF – Once an ATIS number has been entered into the radio, the user will have the ability to turn ATIS ON or OFF through the menu. When ATIS is set to ON, radio will enable ATIS transmit power restrictions on the relevant channels that have said ATIS restrictions. Additionally, the LCD display will show “ATIS ON” on the marine standby screen. When ATIS is set to OFF, there will be no transmit power restrictions. Default is OFF.

8.6. Rewind Say Again Setup

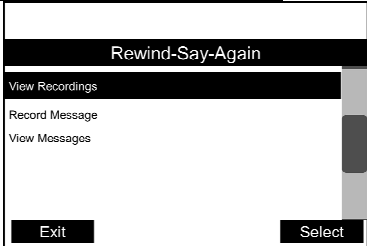
This section of the radio menu will cover the Rewind Say Again functionality and setup. When a user has pressed the Rewind Say Again button on the radio, the rewind icon will show on the LCD display and the radio will turn on Rewind Say Again functionality. This will cause the radio to begin recording incoming transmissions when squelch opens. After squelch closes, the radio will stop recording and save that period as a recorded segment. These segments are stacked in memory and when the memory buffer is full (30 seconds) the radio will loop back around to the start of the memory buffer and overwrite the oldest recorded segment.

A user can press the Rewind-Say-Again button to turn OFF Rewind-Say-Again. Press and hold the Rewind-Say-Again button to open the Rewin-Say-Again menu.

**Note, if the transmission is longer than the max recording time space, the radio will record the last 30 seconds of the transmission if it is longer than the buffer*



Standby Mode with Rewind-Say-Again Recording Transmission

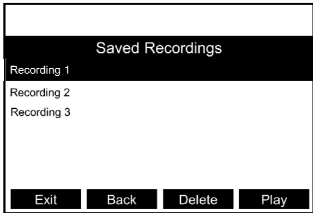


Rewind-Say-Again Menu

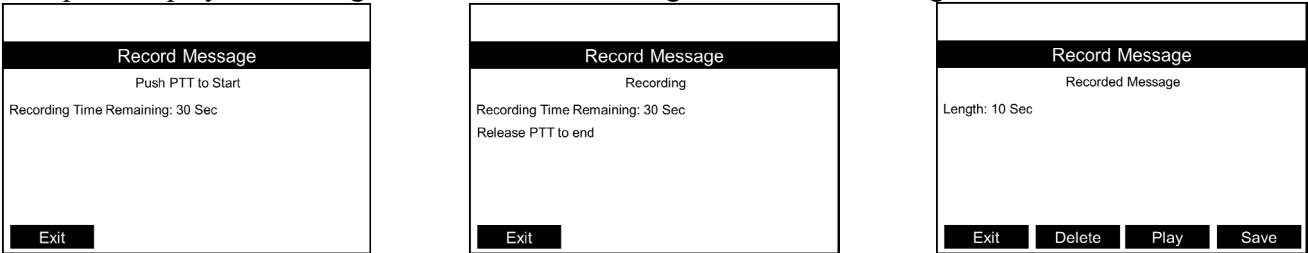


In the radio menu, the user will have the ability to view the saved recordings as well as create recorded messages using the microphone that can be transmitted out by the radio.

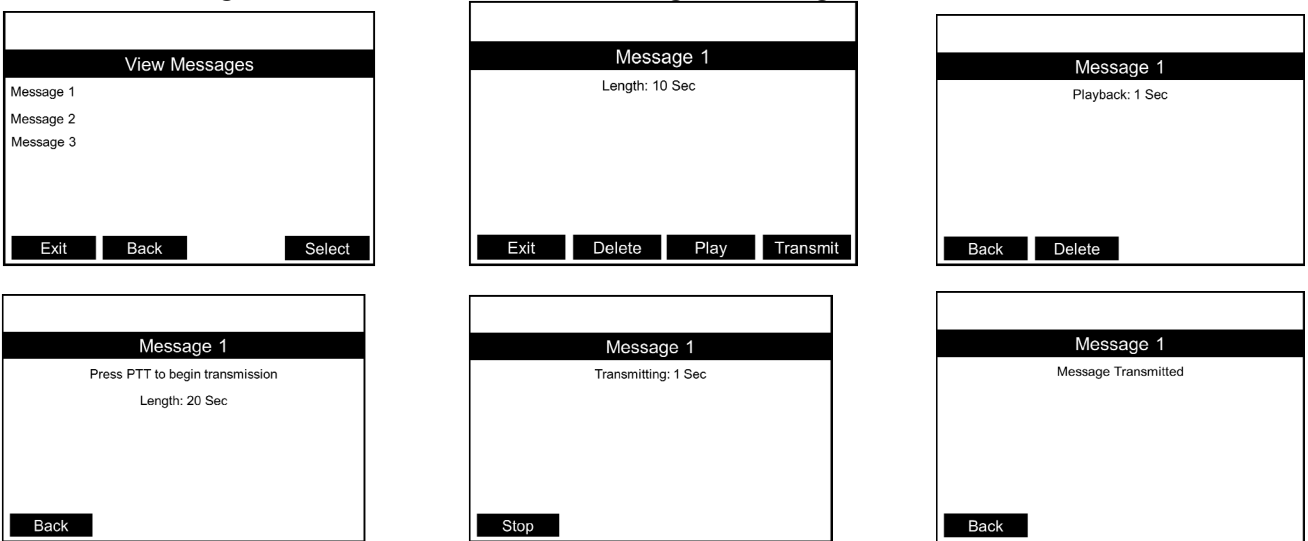
View Recordings – Entering this section of the menu brings up all the currently saved recordings by the radio, as defined earlier with each new recording period being created when the squelch is opened/closed when the Rewind-Say-Again feature is ON for the radio.



Record Message – This section of the menu will allow the user to record a message using the radio’s microphone. This message will be saved by the radio for playback to the user or transmitted out by the radio. Press and hold the PTT button on the microphone to initiate the recording of the message. Recording will stop when the PTT button has been released by the user. At this point, the user will have the option to play the message back, delete the message, or save the message.



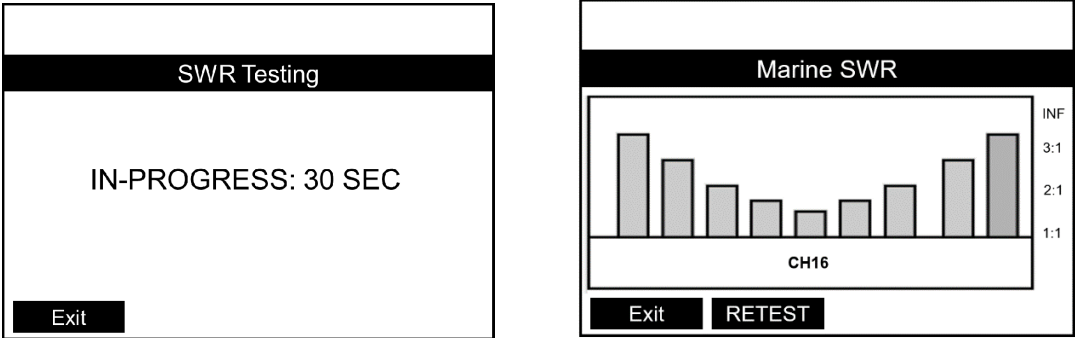
View Messages – This section of the menu will allow a user to see their saved recorded messages. When viewing a saved message, the user has the option to play back the recorded message, delete the recorded message, or transmit the recorded message. If the user selects to transmit the recorded message, the message will be transmitted by the radio on the currently selected channel after the user presses the PTT button. During transmission of recorded message, the radio will show TRANSMITTING along with the current time elapsed on the transmission. When the transmission is finished, the radio will show MESSAGE TRANSMITTED. Pressing the back button will return the radio to the original message overview screen. At any point during message transmission, the user can press the STOP button to stop the current message transmission and return to the original message overview screen.



8.7. Antenna SWR Test

Antenna SWR Test – This setting in the menu allows for the user to test and check the radio antenna’s SWR levels and display them on a graph for the user to see. Selecting Antenna SWR Test in the menu will cause the radio to immediately begin testing the 9 chosen frequencies (see list below) and display the IN-PROGRESS screen with the remaining time being displayed while flashing. When testing has completed, the radio will display a bar graph of the results of all 9 frequencies, however the X-Axis will

only show a label for CH16 in the center. On the right-hand side, the Y-Axis will show labels for SWR at 1:1, 2:1, 3:1 and INF. Additionally, after the test has completed, the user can press the RETEST softkey function to restart the test. Or they can press the EXIT softkey function to return to the main menu.



Bar Graph Section	Target Frequency (MHz)	Nearest Channel	Nearest Frequency (MHz)	Difference between Target and actual Freq (MHz)	Notes
1	156.050	1	156.050	0.000	
2	156.222	4	156.200	0.022	
3	156.394	8	156.400	-0.006	
4	156.566	11	156.550	0.016	
5	156.738	74	156.725	0.013	
					CH 16 would fall between segment 5 and 6
6	156.909	78	156.925	-0.016	
7	157.081	81	157.075	0.006	
8	157.253	83	157.175	0.078	
9	157.425	88	157.425	0.000	

Revision History

Revision	Version #	Date	Page #	Section	Changes Description	Author
Preliminary	R1	April 12, 2024			New Issue	Connor Eberhardt
	R2	April 29, 2024			Adjusted backlight settings to High, Med, Low, Off represented by 0-3 on the backlight slider bar.	Connor Eberhardt
					Added in additional waypoint setup menus	
					Added in ATIS entry for EU models.	
					Added in Rewind-Say-Again menus & functionality	
					Changed Envelope icon behavior.	
					Added in default Navigation Screen description and overview.	
Preliminary	R3	May 22, 2024			Removed Self Test function from DSC Setup Menu	Connor Eberhardt
					Added in new function titled Antenna SWR Test to main menu.	
					Provided list of channels/frequencies to check SWR with the strip line connector and display as a bar chart on the LCD display.	
					Adjusted some of the menu tree pictures to reflect the new Antenna SWR Test along with the removal of Self Test from DSC Setup Menu	

Cobra Electronics
UI/Functional Specification
Model: BlueBound1350B

Issue: Preliminary R5

Preliminary	R4	October 22, 2024			(Page 19-23) Added in country selection options to the menu for the EU model and the additional channels that will be appended to the channel map depending on which country is selected.	Connor Eberhardt
	R5	May 12, 2025	Page 17		- Added an automatic waypoint add function to the received DSC distress message section.	
		May 14, 2025	Page 17		Added a section for the radio to handle receiving a DSC Distress Cancel Packet	
		May 14, 2025	Page 16		Added a secondary activation sequence for undesignated DSC distress message.	
		May 14, 2025	Page 2		Changed factory default setting for the display color to Amber and changed default contrast level to 3	
		May 14, 2025	Page 21		Added in a couple extra settings for GPS under Radio Settings.	
	R6	6-3-2025	Page 13-20		Added in CALL softkey, CALL MENU options, and CALL functionality.	

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC/ISED radiation exposure limits set forth for a controlled environment. This equipment should be installed and operated with minimum distance 50cm between the radiator& your body.

Cet appareil est conforme aux limites d'exposition aux rayonnements FCC/ISED établies pour un environnement contrôlé. Il doit être installé et utilisé à une distance minimale de 50 cm entre l'émetteur et le corps.

Antenna Specification: OdBi