



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for GARMIN GPSMAP 188C SOUNDER. You'll find the answers to all your questions on the GARMIN GPSMAP 188C SOUNDER in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual GARMIN GPSMAP 188C SOUNDER  
User guide GARMIN GPSMAP 188C SOUNDER  
Operating instructions GARMIN GPSMAP 188C SOUNDER  
Instructions for use GARMIN GPSMAP 188C SOUNDER  
Instruction manual GARMIN GPSMAP 188C SOUNDER



## GPSMAP® 188/188C Sounder *chartplotting receiver*

*owner's manual*



(GPSMAP 188C shown)



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.....

.....

.....

.....

..... *19 Additional Information* .....

.....

.....

.....

.....

.....

.....

.... *21 DSC* .....

.....

.....

.....

.....

.....

.....

.....

.....

.....

... *22 Understanding Distress Calls*.....

.....

.....

.....

.....

.....

.... *22 Understanding Position Reports* .

.....

.....

.....

.....

*23 Receiving DSC Calls* .....

.....

.....

.....

.....

.....

.....

.....

... *23 Navigating to a Position Report or Distress Call* ..

.....

.....

.... *25 Setting up DSC* .

.....

.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

*. 25 Main Pages .....*

.....  
.....  
.....

.....  
.....  
.....  
.....

*....26 Basic Operation .*

.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....

*.1 Map Page.....*

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

*. 27 Using the Map Pointer ....*

.....  
.....

.....  
.....  
.....  
.....

.....  
.....

*.. 28 Selecting Map Ranges ...*

.....  
.....

.....  
.....  
.....  
.....

.....  
.....

.....  
... 29 Map Page Options .....

.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....

..... 30 Pointer Page .....

.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....

..... 33 Numbers Page .

.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....

34 Highway Page .....

.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....

.. 35 Active Route Page ...

.....  
.....  
.....  
.....  
.....  
.....  
.....

.. 37 GPS Tab ...

.....  
.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

..... *39 Tide Tab* .

.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

. *43 Trip Tab* .....

.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....

... *46 Celes (Celestial) Tab* .....

.....  
.....  
.....  
.....

.....  
.....  
.....

..... *47 Points Tab* .....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

... *48 User Waypoint List* ..

.....  
.....

.....  
.....  
.....  
.....

.....





.....  
.....  
.....  
.....  
.....

.. 61 Card Tab .....

.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....

... 62 Time Tab .....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.... 62 GPSMAP 188/188C Sounder Owner's Manual Main Menu .

.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....

.....39 ii INTRODUCTION > TABLE OF CONTENTS Pages Tab ..

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....

.. 63 Map Tab ...

.....  
.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

..... *64 General Sub Tab* .

.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....

.... *64 Source Sub Tab* .....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

*64 Waypoints Sub Tab* .....

.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....

. *65 Points Sub Tab* .....

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

..... *66 Nav aids Sub Tab* .

.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....



.....  
.....  
.....  
.....

*68 System (System) Tab .....*

.....  
.....  
.....

.....  
.....  
.....  
.....

*.. 69 Units Tab .....*

.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....

*. 70 Comm (Communications) Tab .....*

.....  
.....  
.....  
.....

*..... 72 Alarm Tab ....*

.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....

*..... 76 Whiteline .....*

.....  
.....  
.....  
.....

.....  
.....  
.....  
.....

.....  
.....  
.....

*. 91 Thermoclines .....*

.....



.....

*.. 83 Sonar Tab Options .....*

.....  
.....

.....

.....  
.....

*..... 85 Understanding Sonar ....*

.....  
.....

.....

.....  
.....

*..... 89 Understanding the Sonar Display ....*

.....  
.....

.....

.....  
.....

*..... 89 Transducer Coverage .....*

.....  
.....

.....

.....  
.....

*... 90 Specifications .....*

.....  
.....

.....

.....  
.....

.....

.....  
.....

*92 Installing the GPSMAP 188/188C Sounder .....*

.....  
.....

*93 Mounting the GPSMAP 188/188C Sounder .....*

.....  
.....

*..... 94 Installing the Transducer .....*

.....  
.....

.....  
.....  
.....  
..... 96 Connecting the Power/Data Cable .

.....  
.....  
.....  
.....  
.....  
..... 98 Interfacing ..

.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
..... 99 Installing and Removing Data Cards ....

.....  
.....  
.....  
..... 100 Satellite Information .

.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
..... 101 What is WAAS?.

.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....  
..... 102 What is Differential GPS (DGPS)? ...

.....  
.....  
.....  
..... 102 What is Maritime Mobile Service Identity (MMSI)? .

.....  
..... 103 How are MMSI Assignments Obtained? .....

.....  
.....  
.....  
..... 103 Navigation Terms .....

.....  
.....





..... 112 FCC Compliance.....

.....  
.....  
.....

.....  
.....  
.....

. 113 Safety Information ....

.....  
.....

.....  
.....  
.....

.... 114 Index .

.....  
.....

.....  
.....  
.....

.....  
.....  
.....

.....115 iii GPSMAP 188/188C Sounder Owner's Manual page, with the appropriate satellite number under each bar. · No signal strength bars--the receiver is looking for the satellites indicated. · Hollow signal strength bars--the receiver has found the indicated satellite(s) and is collecting data. · Solid signal strength bars--the receiver is ready to use. When the receiver has collected information from at least three satellites, the top of the screen displays either "Ready 2D or 3D", and the GPSMAP 188/188C Sounder is ready for use.

GPSMAP 188/188C Sounder Owner's Manual 2 BASIC OPERATION > SIMULATOR MODE Simulator Mode Simulator Mode turns the GPS receiver off for use indoors or practice. Any of the functions discussed in the following pages can be performed in Simulator Mode. While in Simulator Mode, a "Running Simulator" message appears after 2 minutes of inactivity. Keep in mind that the GPSMAP 188/188C Sounder does not track satellites in Simulator Mode, and this mode should never be used for actual navigation. All the waypoint and route planning completed in Simulator Mode is retained in memory for future use. NOTE: Do not attempt to navigate using Simulator Mode. When the unit is set to Simulator Mode, the GPS receiver is turned off. Any satellite signal strength bars displayed are only simulations and do not represent the strength of actual satellite signals. 1. Press MENU twice to display the Main Menu.

Press up or down on the ROCKER until the GPS tab is highlighted, and press MENU once.



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2. Use the **ROCKER** to highlight Start Simulator, and press **ENTER**. Choose No to the retail demonstration, and press **ENTER**. 3. Press **ENTER** to confirm the Running Simulator message that appears at the bottom of the display. "Simulating" appears at the top of each of the Main pages. 4. To turn off the Simulator Mode, press **MENU** and select Stop Simulator. 3 To place the **GPSMAP 188/188C Sounder** in Simulator Mode: **GPSMAP 188/188C Sounder Owner's Manual BASIC OPERATION > ADJUSTING THE BACKLIGHT** The Set Position, Track Control, Track and Speed fields only show while in Simulator Mode.

1. Press up on the **ROCKER** increase the speed in 10 knot/kph/mpg increments. Press down on the **ROCKER** to decrease the speed in the same increments. 2. Press left and right on the **ROCKER** to steer the boat. To adjust the simulated speed and heading from the Pointer or Highway Pages: Adjusting the Backlight The Sounder's adjustable screen backlighting is controlled with the **POWER** key, and can be adjusted from any page. To enter a simulated speed and heading from the Main Menu: 1. Press **MENU** twice to display the Main Menu. 2. Use the **ROCKER** to highlight the System tab, press right then down until the field below the word Speed is highlighted, then press **ENTER**.

3. Use the **ROCKER** to enter a speed, and press **ENTER**. 4. Use the **ROCKER** to highlight Track Control. Press **ENTER**, and select a heading.

5. Press **ENTER** to finish, and **QUIT** until you return to the Map Page. 1. Press and release the **POWER** key. The adjustment slider window appears.

2. Press the **POWER** key again to start the user-defined backlight level. To adjust this level, press up or down on the **ROCKER**. If you press **POWER** one more time, the backlight is at the maximum setting. 3. Press **ENTER** or **QUIT** when finished. **GPSMAP 188/188C Sounder Owner's Manual** To adjust the backlight:

4 **BASIC OPERATION > INTERFACE KEYS** Interface Keys **NAV** Key · Press and release at any time to view the Navigation menu. **IN/OUT** Zoom Keys · From the Map Page, press to zoom in or out. · From any other page, press to scroll up or down a list. **QUIT** Key · Press and release to cancel data entry or exit a page.

**PAGE** Key · Press to cycle through the Main pages. · Press to end an operation in progress and return to the main page. **ROCKER** Key · Press up/down or right/left to move through lists, highlight fields, on-screen buttons and icons, enter data, or move the map pointer. **MENU** Key · Press and release to view options for a page. · Press twice to view the Main Menu. **FIND** Key · Press to search for points such as user waypoints, cities, and services. **ENTER/MARK** Key · Press and release to enter highlighted options and data or confirm on-screen messages. · Press and hold at any time to mark your current location as a waypoint. **POWER** Key · Press and hold to turn unit on or off. · Press and release to adjust backlighting.

**MOB** Key · Press and hold for **MOB** (Man OverBoard). **GPSMAP 188/188C Sounder Owner's Manual 5 BASIC OPERATION > ENTERING DATA AND SELECTING OPTIONS** You can select and start options, and enter data to customize the **GPSMAP 188/188C Sounder** to fit your requirements. Use the **ENTER** key and the **ROCKER** to select options, enter names and numbers in data fields, and activate your selections. To select and start optional feature: 1. With any page displayed, press **MENU** to display the options menu.

The options menu displays a list of optional features that are specific for that page. To select an option requires movement of the pointer. This is referred to as highlighting, selecting, or choosing an item. 2. Use the **ROCKER** to move the cursor (highlight) up and down a list or up, down, left, and right on menus.

3. After you have highlighted a selection, press **ENTER** to either activate the feature or press **MENU** to display a sub-menu or list with more options. Repeat this process to select an option from the list, or press **QUIT** to return to the previous setting. Entering Data and Selecting Options Some pages contain on-screen buttons. As shown below, the New Waypoint window has three buttons: Map, Delete, and OK. To activate, highlight the a button, and press **ENTER**.

**On-Screen Buttons 6 GPSMAP 188/188C Sounder Owner's Manual BASIC OPERATION > USING THE MAP POINTER** Using the Map Pointer Working from the Map Page centers around the use of the pointer. Controlled by the **ROCKER**, the pointer is used to pan to map locations, mark and edit waypoints and routes, and review position data of on-screen map items and waypoints. When you move the pointer over a map item, a highlighted description of that item appears. 1.

Use the **IN/OUT** keys to select a map range. 2. Use the **ROCKER** to move the pointer. A data field appears at the top of the display showing the bearing and distance from your boat to the pointer, along with the latitude/longitude of the pointer. 3. Press **QUIT** to re-center your boat on the map display. To pan the map: Distance Bearing Current Location Pointer Coordinates Map Pointer Map Range The map display actively scrolls or pans, enabling you to explore areas around the world and create waypoints and routes. Pressing **QUIT** returns the map to your present location. **NOTE:** When the pointer reaches the edge of the map, the unit can pause as it loads new map data. **GPSMAP 188/188C Sounder Owner's Manual 7 BASIC OPERATION > CREATING AND USING WAYPOINTS** Creating and Using Waypoints The **Garmin GPSMAP 188/188C Sounder** stores up to 3,000 alphanumeric waypoints with a user-defined symbol, comments, and depth available for each waypoint.

Waypoints can be created using two basic methods: **ENTER/MARK** Key--marks your present location, and provides options to select a map location or map item from the map display. Also, you can enter a new waypoint's location coordinates manually. Graphically--defines a new waypoint location from the map display using the **ROCKER**. **ENTER/MARK** Key The **Garmin GPSMAP 188/188C Sounder's** **ENTER/MARK** key quickly captures your present location to create a new waypoint. The unit must have a valid position (2D or 3D) fix to mark your present position.

You can also use this option to manually enter waypoint coordinates. 1. Press and hold **ENTER/MARK** until the New Waypoint window appears. A default three-digit name and symbol is created for the new waypoint. 2.

To accept the waypoint with the default name and symbol, highlight **OK**, and press **ENTER**. 3. To enter a different name, highlight the name field, and press **ENTER**. Use the **ROCKER** to enter the new letter/ numbers, and press **ENTER** when finished. You can use up to 10 characters for the name. 4. To select a different symbol, highlight the symbol field to the left of the name, and press **ENTER**. Use the **ROCKER** to highlight the new symbol, and press **ENTER**. To mark your present position: 8 **GPSMAP 188/188C Sounder Owner's Manual BASIC OPERATION > CREATING AND USING WAYPOINTS 5.**



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To enter optional comments or a depth, highlight the Comments or Depth field to the right of the location coordinates, and press ENTER, use the ROCKER to enter a value, and press ENTER.

6. To manually enter a set of coordinates, highlight the coordinates, and press ENTER, use the ROCKER to enter the new coordinates, and press ENTER when finished. 7. Use the ROCKER to highlight OK. When finished, press ENTER to save the waypoint into memory. 1. Use the ROCKER to move the pointer to a map location. If you want to create the new waypoint at an on-screen map item, highlight the map item on the display. 2. Press and release ENTER/MARK to capture the pointer location.

Do not hold the button down, doing so marks your present location, not the map location. If you are not using a map item to create a waypoint, go to step 4. 3. Highlight Create Wpt or OK, and press ENTER. 4.

To accept the waypoint with the default name and symbol, press ENTER. 5. To change the name, symbol, or add a comment or depth, highlight the appropriate field, and press ENTER. Make your changes and press ENTER when finished. 6.

Move the highlight back to OK, and press ENTER to confirm the changes. To create a new waypoint graphically: Creating Waypoints Graphically You create waypoints graphically from the map display. To mark a map location or map item, select the location or item with the pointer, and press ENTER/MARK.

When selecting a location or map item, a description of the point, its distance and bearing from your current location, and the latitude/longitude of the pointer is displayed along the top of the map. GPSMAP 188/188C Sounder Owner's Manual 9 BASIC OPERATION > MAN OVERBOARD (MOB) Man OverBoard (MOB) The GPSMAP 188/188C Sounder's Man OverBoard (MOB) function simultaneously marks and sets a course back to the marked location for quick response to emergency situations. When a MOB is active, a MOB waypoint with an international MOB symbol is created and the unit is on an active navigation to that point. Use any of the Navigation Pages to guide you back to the MOB point. The MOB waypoint is stored in the waypoint list and works like any other waypoint. The MOB function allows you to quickly activate navigation back to a location. To activate the MOB function: 1.

Press the MOB key. 2. Press ENTER to begin navigating to the MOB location. 3. To stop navigation to the MOB location, press NAV, highlight Stop Navigation, and press ENTER. 10 To stop navigation, highlight Stop Navigation and press ENTER. GPSMAP 188/188C Sounder Owner's Manual BASIC OPERATION > REVIEWING AND EDITING WAYPOINTS Reviewing and Editing Waypoints Waypoints are reviewed, modified, renamed, moved, or deleted at any time through the Waypoint Edit Page. The Waypoint Edit Page is available for any stored waypoint. Select the waypoint on the map or from the waypoint list on the Main Menu--Points tab. 3.

From the Waypoint Edit Page, change the name, symbol, comment, location coordinates, or depth for the selected waypoint. When finished, highlight Next, and press ENTER to save them, or press QUIT. Symbol Coordinates Name Comment Sub Tabs Depth Waypoint List Waypoint Edit Page 1. Use the ROCKER to highlight the waypoint on the map display. Or Press MENU twice, highlight the Points tab, and choose a waypoint from the User or Proximity waypoint lists.

2. Press ENTER to display the Waypoint Edit Page. GPSMAP 188/188C Sounder Owner's Manual To access the Waypoint Edit Page: 1. Highlight the waypoint name field, and press ENTER. 2.

Use the ROCKER to enter a new name, and press ENTER. To change the waypoint name: 11 BASIC OPERATION > NAVIGATING TO A DESTINATION 1. Highlight the waypoint symbol field to the left of the waypoint name, and press ENTER. 2. Use the ROCKER to select a new symbol, and press ENTER. To change the waypoint symbol: Navigating to a Destination The NAV key provides three ways to navigate to a destination: Go To Point, Follow Route, and Follow Track (TracBack). When you are actively navigating, the Map Page displays a straight line from your current location to the destination. The Go To option is the easiest method for selecting a destination. A Go To allows you to select a destination point and quickly set a direct course from your present location. If you have a point highlighted on a list or the map, Go To <point name> appears in addition to Go To Point.

The Go To function is accessed from any list of points or graphically from the Map Page. Using the Nav Key 1. Highlight a field, and press ENTER. 2. Use the ROCKER to edit or enter the data. To move to the next line, press right on the ROCKER. 3. Press ENTER when finished. 1. From the Waypoint Edit Page, highlight Show Map, and press ENTER.

2. Highlight the waypoint, and press ENTER. A MOVE label now appears under the pointer arrow in addition to a distance, bearing, and coordinate window. You can also use the IN and OUT keys to zoom the map. The map range appears in the lower right corner.

3. Use the ROCKER to point to the new location, and press ENTER. 4. To stop the move process, press QUIT. To change the Comment, Location, Coordinates, or Depth: To move the waypoint on the map: 12 GPSMAP 188/188C Sounder Owner's Manual BASIC OPERATION > NAVIGATING TO A DESTINATION 1.

Press the NAV key. Highlight Go To Point, and press ENTER. 2. From the Find menu, highlight Waypoints or another menu option, and press ENTER. 3. To select a waypoint from the waypoint lists, use the ROCKER to highlight either the By Name or Nearest tab, select a waypoint, and press ENTER. Or Select a waypoint from the map, highlight either the User or Nearest tab, and press MENU. With Select From Map highlighted, press ENTER. Use the zoom IN and OUT keys and the ROCKER to select a waypoint, then press ENTER. To activate a Go To from a point list: Selecting a Go To Graphically A graphical Go To can be used to select one of three items from the map display: an existing waypoint, on-screen map items such as roads, rivers, cities, and nav aids, or a new map point.

If you are selecting a map item as the Go To destination, the GPSMAP 188/ 188C Sounder automatically uses the name of the map item, but the point is not stored in the waypoint list. See page 21 for creating waypoints using map items. If you are selecting a new map point (non-map item) as the Go To destination, the GPSMAP 188/188C Sounder automatically creates a waypoint at the pointer location. To activate an existing waypoint or map item as a Go To from the map display: 1. Use the ROCKER to highlight the waypoint or on-screen map item, and press NAV. When Go To <waypoint name> appears, press ENTER. Or Highlight the waypoint or map item, and press ENTER. 2. Highlight the Go To button at the bottom of the window, and press ENTER.

GPSMAP 188/188C Sounder Owner's Manual 13 BASIC OPERATION > NAVIGATING TO A DESTINATION 1.

Use the ROCKER to move the map pointer to the location you want.



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2. Press NAV. 3. With Go To MAP Point highlighted, press ENTER.

To Go To a new map point (non-map item): TracBack Navigation (Navigating a Track) The TracBack function retraces your path using the track log automatically stored in the receiver's memory. This feature eliminates the need to store waypoints along the way. TracBack routes are created by reducing your track log into a route of up to 254 turns and activating an inverted route along those points. When activated, a TracBack route leads you back to the oldest stored track log point, so it is a good idea to clear the existing track log before you start your current trip. You must save a track before using the Follow Track option.

14 GPSMAP 188/188C Sounder Owner's Manual BASIC OPERATION > NAVIGATING TO A DESTINATION 1. Press MENU twice to display the Main Menu. 2. Using the ROCKER, highlight the Track tab, and highlight the Active sub tab. 3. Use the ROCKER to select the Erase, and press ENTER. 4. Highlight the OK, and press ENTER. To clear the track log and define a starting point for a TracBack route: To view the track on the map, highlight Review on Map, and press ENTER. Pressing MENU to activate the Measure Distance (see page 32) and Point to on Main Map options, then exit the Save Track window.

Press QUIT to return to the Save Track window. 4. Highlight OK, and press ENTER to save the track. 5. Press QUIT to exit. You must save the track log before you can use Follow Track. The Save feature stores up to 15 track logs. 1. From the Main Menu, use the ROCKER to highlight the Track tab, and then highlight the Active sub tab to the right. 2.

Use the ROCKER to select Save, and press ENTER. 3. From the Save Back Through window, highlight time, date, or Entire Log, and press ENTER. When the track is saved, the Save Track window appears. The default name, distance, number of points (500 max), and color are in the Save Track window.

To change the name of the saved track, highlight the name field, and press ENTER. Make your changes, and press ENTER. To display the track on the Map and Highway Pages, highlight the check box to the left of Show on Map and Highway, and press ENTER. GPSMAP 188/188C Sounder Owner's Manual To save a track log: Default Track Name Total number of points Total Distance Check this box to display track Change color of track line 15 BASIC OPERATION > NAVIGATING TO A DESTINATION 1. Press NAV, highlight the Follow Track, and press ENTER.

2. Highlight the track you want to follow, and press ENTER. 3. Choose Original to navigate from the start to the end of your trip, or choose Reverse to navigate from the end to the start of your trip, and press ENTER. 4. To stop TracBack navigation, press NAV, highlight Stop Navigation, and press ENTER. To activate a TracBack using the NAV key: When a TracBack is active, the GPSMAP 188/188C Sounder takes the track log currently stored in memory and divides it into segments called legs. Up to 50 (188) or 254 (188C) temporary turns (BEGIN, TURN 1, TURN 2, TURN 3,...

., TURN X, END) are created to mark the most significant features of the track log in order to duplicate your exact path as closely as possible. To get the most out of the TracBack feature, remember the following tips: · Always clear the track log at the starting point. · Set the Record Mode option on the track log setup page to Fill or Wrap. · The track log memory must contain at least two points to create a TracBack route. · If the track log interval is set to the Time option, the route can not follow your exact path. For best performance, keep the interval set to resolution. · If the receiver is turned off or satellite coverage is lost during your trip, the TracBack draws a straight line between any point where coverage was lost and where it resumed. · If the track log's changes in distance and direction are too complex, 254 waypoints can not mark your path accurately. The receiver then assigns the 254 waypoints to the most significant points of your track, and simplifies segments with fewer changes in direction.

For more information on setting up the Track options and saved tracks, see page 59. 16 GPSMAP 188/188C Sounder Owner's Manual BASIC OPERATION > ROUTES Routes You can create and store up to 50 user-defined reversible routes (numbered 1-50), with up to 254 waypoints each. Routes are created and modified in two ways. The first method creates the route using a map page. This method selects points on the map.

The second method enters the waypoint names as text on the Route Review Page. This method lists the waypoints as you create the route. All of the route functions are accessed through the Main Menu or the NAV key. Route Tab 1. Press MENU twice to display the Main Menu.

2. Use the ROCKER to highlight the Route tab, and press MENU to display the route options page, or highlight the first available blank route slot, and press ENTER. (Go to step 4 if you use this method.) 3. Select New Route, and press ENTER. 4. To add an existing waypoint or map item to the route, use the map pointer to select a waypoint or map item, and press ENTER. Map items do not appear in the waypoint list. To create a waypoint from a map item, see page 21. 5.

To add a new waypoint to the route, use the map pointer to select a map location, and press ENTER. Press ENTER again to confirm the new waypoint. You can also change the name and symbol of the new waypoint (see page 8). As you add each new waypoint to the route, the data window at the top of the map display shows the waypoint/ map item name, bearing and distance from your location, and coordinates of the pointer. The bottom of the display shows the number of available and used points. A route line appears on the map to indicate each completed leg, and a dotted line appears indicating the distance and bearing to the arrow pointer from the last route waypoint. To create a route using the Route Edit Map Page: GPSMAP 188/188C Sounder Owner's Manual 17 BASIC OPERATION > ROUTES 6. Repeat steps 4 and 5 until you have finished defining all route waypoints. 7. When finished, press QUIT twice to return to the Route List.

Highlight Edit as Text, and press ENTER to return to the Route Review Page. 1. Press MENU twice to display the Main Menu. 2. Use the ROCKER to highlight the Route tab, and press MENU to display the route options menu, or highlight the first available blank route slot, and press ENTER.

(Go to step 4 if you use this method.) 3. Select New Route, and press ENTER. 4. Press MENU, select Edit as Text, and press ENTER.

5. Use the ROCKER to highlight the first field under the word Waypoint, and press ENTER. To create a route using text on the Route Review Page: ADD appears below the pointer as you insert points. Choose the category you want to add a route point from. 18 GPSMAP 188/188C Sounder Owner's Manual BASIC OPERATION > FIND 6. From the Find menu, highlight Waypoints or another menu item, and press ENTER.



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From either the By Name or Nearest tab lists, choose a waypoint, and press ENTER. (See page 50 for searching for waypoints by name.) 7. On the Waypoint Review Page, OK is automatically highlighted.

You can use Show Map to view a point on the map. When finished viewing, press QUIT to return to the Waypoint Review Page. Press ENTER to add the point to the route. The next field automatically highlights. 8. Repeat steps 5-7 until all the route points are entered. Press QUIT to return to the Route List. Find Use the FIND key to search the unit for user waypoints, map items and any BlueChart or MapSource information loaded to the unit or on a data card. Press FIND to display a list of available find categories. The default items are Waypoints, Cities, Tide Stations, and Transportation.

If you press FIND and you are in Pan Mode, the unit centers its search from the map pointer location. Find Items List Choose a waypoint from either the By Name or Nearest tab list. GPSMAP 188/188C Sounder Owner's Manual 19 BASIC OPERATION > FIND 1. From any page, press FIND. 2.

Using the ROCKER, highlight a category from the list, and press ENTER. 3. For Waypoints and Cities, search using By Name or Nearest. Use the ROCKER to highlight a tab. For By Name, use the top field to spell out the name, or scroll down through the list.

(See page 8 for steps on entering a name.) 1. From the Map Page, use the ROCKER to pan to a location, and press FIND. 2. Using the ROCKER, highlight a category from the list, and press ENTER. To Find an item from your current location: The Find option also supports a "find from" feature that centers your search around an item you have just found. For example, you search for "Restricted Areas" and you find a point named "Anchoring Prohibited." If you press FIND again, "From Anchoring Prohibited" appears as the new search from point. You can also use the Find feature to center your search from any waypoint, route list entry, map item, or tide station. Highlight the item you want to find from, and press FIND.

· Nearest To Boat--centers search from your boat's current location. · Nearest To Other--centers your search around another map location. · Nearest To Next--centers search from the next point of your active route. · Nearest To Destination--centers search from the last point of your active route. To Find an item from other locations: You can also Find from items found on the Find List. 20 GPSMAP 188/188C Sounder Owner's Manual BASIC OPERATION > ADDITIONAL INFORMATION 1 From any page, press FIND. 2. Using the ROCKER, highlight a category from the list, and press ENTER. 3 From the search results list, press MENU, highlight an option, and press ENTER. To Find an item using the Find options: Additional Information Items located using the Find feature have information about the point available.

The information varies depending on the type of data loaded on the optional data card. Sub tabs along the top of the detail window contain the information available for the item. Any additional options are displayed along the bottom. To view additional information for a Find item: 1. From the Find list, highlight an item, and press ENTER.

2. Use the ROCKER to highlight the individual tabs and display the information. To scroll the text, highlight the field, and press ENTER. Use the ROCKER to scroll. Or Press MENU, and choose a scroll option.

Additional Information Tabs Distance, Bearing, and Coordinates of item Additional Options Information Window Find Menu Options GPSMAP 188/188C Sounder Owner's Manual 21 BASIC OPERATION > DSC DSC The DSC tab on Main Menu controls and sets up the Digital Selective Calling (DSC) features on the GPSMAP 188/188C Sounder. DSC uses marine VHF radio and Global Positioning System (GPS) technologies to transmit and receive location information. The chartplotter repeats the call properties received from the VHF radio on the chartplotter. The GPSMAP 188/188C Sounder requires input from a DSC enabled VHF radio to display position, and sound/ display alerts from a Distress Call or Position Report. Conversely, the VHF radio requires input from a GPS to transmit position coordinates for a Distress Call or Position Report. For connection information, refer to "Connecting the Power/Data Cable" on page 98. An emergency DSC Distress Call allows a vessel in trouble to transmit a substantial amount of information in a single transmission or call, without the need for voice communication. When any nearby rescuers receives the DSC signal, an alarm sounds and they immediately receive the location of the caller. The rescuer can choose to navigate to the caller's location to assist, or forward the call on to the Coast Guard. When the Coast Guard receives the call, they can immediately access the caller's information (such as 22 who they are and the type of vessel) in their database while they are in transit to the caller's location.

A non-emergency DSC Position Report allows mariners to exchange and display the positions of one another. When a DSC position is received, the mariner can choose to create a waypoint or to show the received location on an electronic map. Anytime a vessel receives a DSC call, they can store and quickly navigate to that location using a Go To. To use DSC, users must first register their VHF radios with the FCC and receive a Maritime Mobile Service Identity (MMSI) number. Garmin does not provide MMSI numbers. For more information about Digital Selective Calling and Maritime Mobile Service Identity (MMSI) numbers, refer to page 103 in the "Appendix." Understanding Distress Calls When the GPSMAP 188/188C Sounder receives a Distress Call from a connected DSC-enabled VHF radio, an alert message and notification page appear, and an alarm tone sounds. Distress Calls are shown in the DSC Call List and Log with a checkered symbol. GPSMAP 188/188C Sounder Owner's Manual BASIC OPERATION > DSC Understanding Position Reports A Position Report is similar to a Distress Call except no alarm is sounded. Position Reports are not broadcast to all DSC users and are shown with a boat symbol. When a Distress Call or Position Report is placed in the Call List and Log, the information on the Notification Page is retained. To review a DSC call or log entry, highlight the entry, and press ENTER. The DSC Entry Review window is identical to the Notification window with one exception, the entry can be deleted. Each time you receive a Distress Call or Position Report, a Notification Page is appears, and the call is placed in the DSC Call List and Log. The Notification Page contains information about the call including the type of call (distress or position report), the MMSI number of the caller, a user definable name, the time and date of the call, the Bearing and Distance from your current position, and the coordinates of the caller.



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To see the caller's location on a map, select the Show Map button. To create a waypoint at the caller's location, select the Create Wpt button. To close the Notification Page, press QUIT. GPSMAP 188/188C Sounder Owner's Manual Receiving DSC Calls DSC Entry Review Window 1. Press Menu twice.

2. Open the Call List or Log from the DSC tab. 3. Press up or down on ROCKER to highlight the call you want to review. 4. Press ENTER to open the DSC Entry Review window. To review a call or log entry: 23 BASIC OPERATION > DSC DSC Call List The DSC Call List displays the 50 most recent calls, even if the unit is left unattended. The Call List displays the most recent call from a vessel. If a second call from the same vessel is received, it replaces the first call in the Call List. Press MENU to sort the list and delete entries.

DSC Log When DSC calls are received, they are automatically placed in the Log, with the most recent call at the top. The unit can log up to 100 calls. When 100 calls are logged, the oldest log is removed when a new call is received. Press MENU to sort the list and delete entries. DSC Directory The DSC Directory acts much like a phone book and can hold up to 50 entries. Pressing MENU from this page displays options to add a New Item, Delete a highlighted entry, or Delete All entries. To add a new Directory entry: 1. Open the DSC Directory in the Main Menu. 2. Use the ROCKER to highlight the first blank space in the directory list, and press ENTER.

Or Press MENU, highlight New Item, and press ENTER. 3. Enter the MMSI number, a Name, and any comments. 4. When finished, highlight OK, and press ENTER.

New Directory Item Page When a Distress Call, Position Report, or Directory item is named, the name is attached to that particular MMSI number. If a name is used, all DSC entries of the same MMSI number show the name. 24 GPSMAP 188/188C Sounder Owner's Manual BASIC OPERATION > DSC Navigating to a Position Report or Distress Call After a Position Report or a Distress Call is received, navigation can be quickly set to the call location. To navigate to Position Report or Distress Call: Setting up DSC 1 Press NAV. 2.

With Go To MMSI/Name highlighted, press ENTER. Or 1. Highlight the call on the Call List or Log, and press NAV. 2. With Go To MMSI/Name or DSC highlighted, press ENTER. The DSC Setup sub tab turns DSC chartplotter information display On and Off. This Setup tab also allows you to simulate Distress Calls and Position Reports while the unit is in Simulator Mode (see page 3). Simulating calls is helpful for practice before connecting to the real system. The Distress Call simulator also helps to check if alarms are working properly. DSC Setup Navigating to a DSC Call GPSMAP 188/188C Sounder Owner's Manual 25 MAIN PAGES > OVERVIEW MAIN PAGES Six main display pages are always available: Map Page, Sonar Page, Pointer Page, Numbers Page, Highway Page, and Active Route Page.

You can cycle through these pages by pressing either PAGE or QUIT. For information on the Sonar Page, refer to the "Using Sonar" section on pages 78-91. With the Map Page displayed, press PAGE several times. Each time you press PAGE the next main page appears. Do the same with the QUIT key. QUIT acts the same as PAGE, except the pages are displayed in a reverse sequence. Each main page has an options menu. Options menus contain the setup options and functions that apply to that page. Press MENU to display the options menu. Use the ROCKER to select an item from the options menu and press ENTER.

Many of the menus in the GPSMAP 188/188C Sounder are arranged in a tab layout. Use the ROCKER to move left or right from tab to tab. Notice that either PAGE or QUIT stops the current function and returns you to the main page. If you find yourself lost in a menu or you start a function you do not want, press PAGE or QUIT. Map Page 26 Sonar Page Pointer Page Numbers Page Highway Page Active Route Page GPSMAP 188/188C Sounder Owner's Manual MAIN PAGES > MAP PAGE Map Page The Map Page provides a comprehensive display of electronic cartography, plotting, and navigational data.

When in the BlueChart data coverage area or using optional MapSource software, the map display shows your boat on a digital chart, complete with geographic names, map items, nav aids, and a host of other chart features. It also plots your track and displays any routes and waypoints you create. A map pointer allows you pan and scroll to other map areas, determine the distance and bearing to a location, and perform various route and waypoint functions. When the map pointer is active, an additional data window appears below the data fields to indicate the location, range, and bearing to the pointer, a selected waypoint, or map item. The map range displays at the bottom right of the page.

The Zoom IN and OUT keys combined with the ROCKER, allow you select zoom ranges and move the pointer. Two basic map operating modes, Position Mode and Pointer Mode, determine what cartography is shown on the map display. Position Mode moves the cartography to keep the present location marker within the display area. Pan Mode moves the cartography to keep the map pointer within the display area. Data Fields Land Map Item Water Geographic Name Map Page shown using optional MapSource data. User Waypoint Position Triangle Nav aids Map Range The GPSMAP 188/188C Sounder system starts in the Position Mode, with your location centered on the map display. When sufficient map coverage is not available to keep your location centered, the position triangle moves toward the edge of the display. Pan Mode starts when the ROCKER is pressed. The pointer is moved over the map display using the ROCKER. When the pointer reaches the edge of the display, the map scrolls forward under the pointer.

27 GPSMAP 188/188C Sounder Owner's Manual MAIN PAGES > MAP PAGE Using the Map Pointer The pointer pans away from your present location (even outside of your current detail coverage.) As you pan past the edge of the current map display, the screen actively scrolls forward to provide continuous map coverage. An hourglass symbol appears by the pointer while the unit is busy drawing new map details. Additional Information Tabs Pressing ENTER while highlighting a map item brings up additional details and options. Additional Options Move the pointer over an item on the map to highlight it. To select an on-screen waypoint or map item with the map pointer: 1. Use the ROCKER to move the map pointer to a waypoint or map item. (If there are several waypoints grouped closely together, zoom in closer for a better view.) 2. When a waypoint or map item is selected, it is highlighted on-screen, with the name and location displayed.

Press ENTER to show details of the map item. When in the BlueChart coverage area or using optional MapSource data, additional information tabs appear. Use the ROCKER to highlight the individual tabs, and display additional information and options.



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3. Press **QUIT** to re-center your location on-screen.

As you move the pointer, the distance and bearing from your present location to the pointer is displayed in the data window, along with the pointer's location coordinates. Keep in mind that when the pointer is stationary, the distance and bearing from your present position changes as your location moves. The pointer can also be used to view on-screen waypoint and map item properties directly from the map display. 28 GPSMAP 188/188C Sounder Owner's Manual

MAIN PAGES > MAP PAGE Use the pointer to create new waypoints directly from the map. 1.

Use the **ROCKER** to move the pointer to the map location. 2. Press **ENTER**. The New Map Waypoint window appears. (If the pointer is on a map item, press **ENTER**, and a new window with details about the item appears.) 3. Press **ENTER** again on the highlighted Create Wpt option. 4. Press **ENTER** to confirm the new waypoint using the default three-digit name and symbol. To create a waypoint with the pointer: The map display has 28 available zoom ranges from 20 ft to 800 mi (5 m to 1200 km).

) The map range is controlled by the **IN** and **OUT** keys, with the current range displayed at the bottom right of the data window. To select a map range: Press the **OUT** key to zoom out and the **IN** key to zoom in. **NOTE:** The range value represents the distance from one end of the range bar to the other. Selecting Map

Ranges For more information about waypoints, see page 8. Using Built-In Basemap Using BlueChart/MapSource Data Overzoom, no additional data is available GPSMAP 188/188C Sounder Owner's Manual 29 MAIN PAGES > MAP PAGE The GPSMAP 188/188C Sounder's system has a built-in worldwide database to 20 mi, with more detailed coverage available through the use of the optional BlueChart or MapSource data. The GPSMAP 188/188C Sounder displays cartography as long as there is chart information available for the range you have selected. Map coverage conforms to the following conditions: · When the selected zoom range is covered by the internal database, BlueChart, or MapSource data, cartography is displayed. · When the selected zoom range is covered by both the internal database and BlueChart/MapSource data, cartography is displayed using the data with the best resolution. · When the selected zoom range exceeds the resolution of the data in use, an Overzoom warning appears below the range. Map Page Options Many features of the GPSMAP 188/188C Sounder are menu driven.

Each main page has an options menu, allowing you to customize the corresponding page to your preferences and select special features that specifically relate to that page. The data window, located at the top of the main pages, provides a userselectable layout of various types of useful data. Each data field can be configured to display any one of several data options. The data window layout can be configured to display additional data fields and change the size of the data displayed. 1.

Press **MENU**. 2. Use the **ROCKER** to highlight an option, and press **ENTER**. To display and select the Map Page options: The available options are Full Screen Map/Show Data, Change Numbers, Measure Distance, Show Sonar (If equipped with a transducer, see the "Using Sonar" section on pages 78-91 for details on this feature,) Set Up Map and Turn Declutter On/Off. Following are details on using each of these options.

30 GPSMAP 188/188C Sounder Owner's Manual MAIN PAGES > MAP PAGE Change Numbers--specifies the type of data displayed in each data field used on the map display. 1. From the menu, use the **ROCKER** to highlight the Change Numbers option, and press **ENTER**. 2. Move the field highlight to the data field you want to change, and press **ENTER**. 3. Move up or down on the list using the **ROCKER** to highlight the data you want to display, and press **ENTER**. To exit, press **QUIT**. Map Page Options To change a data field: Full Screen Map/Show Data--toggles between the Map Page without or with data fields on the map display. To maximize the map/show data fields: 1.

Highlight Full Screen Map, and press **ENTER**. The Map Page is now maximized with no data fields. 2. To show the data fields again, press **MENU**, highlight Show Data, and press **ENTER**. **NOTE:** Pointer, Highway, Location, and Sonar field options are only available on medium and large sized data fields.

GPSMAP 188/188C Sounder Owner's Manual 31 MAIN PAGES > MAP PAGE You can also merge the four medium default data fields to a single, large field for better readability or you can split any or all of the default data fields to show four small data fields. Single, large data field Default, medium fields 3. Move the pointer to the end measurement point. The bearing and distance from the reference point and pointer coordinates appears in the data window at the top of the display. Press **QUIT** to finish.

Pointer Coordinates Distance and Bearing Map Pointer Split, small fields Measure Distance--measures the bearing and distance between any two points on the map display. 1. Highlight Measure Distance, and press **ENTER**. An on-screen pointer labeled ENT REF appears on the map display at your present location. 2.

Move the pointer to a reference point (the point that you want to measure from), and press **ENTER**. To measure the bearing/distance between two points: Full screen map shown (with BlueChart data) 32 GPSMAP 188/188C Sounder Owner's Manual MAIN PAGES > POINTER PAGE Set Up Map--configures the map display preferences, including map detail, map orientation, automatic zoom, and various map items and points. Refer to "Main Menu--Map Tab" on page 64 for more information. 1. From the Map Page menu, highlight Set Up Map, and press **ENTER**.

2. Press left or right on the **ROCKER** to highlight a tab, then press up or down on the **ROCKER** to highlight the setting you want to change, and press **ENTER**. 3. Press up or down on the **ROCKER** to highlight a setting, and press **ENTER**. To exit, press **QUIT**. Pointer Page To change a map setup feature: From the map setup page, you can access the following menu options by pressing **MENU**. · Defaults--restores settings back to factory settings for the tab highlighted. · All Map Defaults--restores settings back to factory settings for all tabs. Turn Declutter On/Off--toggles between showing BlueChart spot soundings and map outlines for easier viewing. The Pointer Page provides graphic steering guidance to a destination waypoint, with an emphasis on the bearing to your destination and current direction of travel.

The middle of the page features a rotating compass ring that shows your course over ground (track) while you are moving, and a bearing pointer that indicates the direction of the destination (bearing) relative to the course over ground. The compass ring and pointer arrow work independently to show--at a glance--the direction of your movement and the direction to your destination.



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For instance, if the arrow points up, you are going directly to the waypoint. If the arrow points any direction other than up, turn toward the arrow until it points up--then continue in that direction. The current speed, distance to the next waypoint, turn angle and current location are displayed at the top of the screen. This page provides better steering guidance when traveling at slower speeds or when making frequent directional changes. When you are not navigating to a waypoint, the compass ring shows the current direction of travel but the arrow does not appear. NOTE: The bearing pointer, bearing bug, and compass ring can point in various directions when you are stationary or at very low speeds. Once you start moving, the pointer is correct. 33 GPSMAP 188/188C Sounder Owner's Manual MAIN PAGES > NUMBERS PAGE Numbers Page Current Go To Destination Data Fields Bearing Bug The Numbers Page provides for precision navigation to one degree of steerage.

The default page displays three large numbers fields. You can customize the Numbers Page to display the size and number of fields along with the type data you want to see. See page 31 for instructions on changing the data fields. The Numbers Page provides a quick reference for the important data you want to display. By default, the page displays three large, user-selectable data fields showing a compass ribbon, speed, and current location coordinates. You can also choose to show the three data fields in large lettering for better readability or you can split any or all of the data fields to show four smaller data fields. See page 31 for detailed instructions on changing the data fields and layout of the Numbers Page. Bearing Pointer Compass Ring The Pointer Page features a menu page that provides access to layout and data field options. The data window, located at the top of the page, provides a user-selectable layout of various types of useful data. Each data field can be configured to display several data options.

The data window layout can be configured to display additional data fields and change the size of the data displayed. To display and select the Pointer Page options: 1. Press MENU. 2. Use the ROCKER to highlight an option, and press ENTER. For detailed instructions on changing the data fields and layout of the Pointer Page, see page 31. 34 GPSMAP 188/188C Sounder Owner's Manual MAIN PAGES > HIGHWAY PAGE Highway Page Numbers Page shown with middle data field split into four fields The Highway Page provides graphic steering guidance to a destination waypoint, placing greater emphasis on the straight-line course, and the distance and direction you are off course. As you head toward your destination, the middle of the screen provides visual guidance to your waypoint on a moving graphic highway. Your present location is at the bottom center of the highway display. The line down the middle of the highway represents your course.

As you navigate toward a waypoint, the highway moves-- indicating the direction you are off course. To stay on course, steer toward the center of the highway. 1. Press MENU, and press ENTER. 2. Highlight a data field, and press MENU. 3. Highlight Split Numbers, and press ENTER. Four new data fields appear. Press QUIT to finish.

4. To return to the original configuration, repeat steps 1 and 2, but instead of Split Numbers, select either Merge Numbers or Defaults. Press QUIT to finish. To split the data fields: Steer toward the center of the highway or toward the black vertical bar on the compass ribbon to get back on course. GPSMAP 188/188C Sounder Owner's Manual 35 MAIN PAGES > HIGHWAY PAGE The four data fields at the top of the page provide additional user-selectable guidance information.

Additionally, a compass ribbon shows your current heading along with a dark vertical bar that indicates the direct bearing to the navigation point. When the dark, vertical indicator (or arrow) lines up with the lighter red bar in the middle, you are heading directly to the navigation point. Use the Highway Page as your primary navigation page in lieu of the Pointer Page when your main concern is following a defined course. Current Waypoint Data Fields Course You can zoom in or out on the Highway display for a smaller or larger view. Five available settings range from 1X to 16X, with a default setting of 8X.

The current range appears in the bottom right of the display. To zoom in or out on the highway display: Press either the IN or OUT key to increase or decrease the zoom range. Highway Page Options The Highway options page defines the data fields and selects the waypoints and tracks that are displayed.

The data window, located at the top of the page, provides a user-selectable layout of various types of data. Each data field can be configured to display several data options. The data window layout can be configured to display additional data fields and change the size of the data displayed. To display and select the Highway Page options: 1. Press MENU. 2. Using the ROCKER, highlight an option, and press ENTER.

Present Location Zoom Range 36 GPSMAP 188/188C Sounder Owner's Manual MAIN PAGES > ACTIVE ROUTE PAGE Check or uncheck the options you want to show/hide on the Highway Page. Active Route Page Preview Window The Active Route Page shows each point of the active route, with the point name, distance and choice of Course, ETA, Fuel, Leg Distance, Leg Fuel, Leg Time, Sunrise, Sunset, or Time To for each point from your present location. The current destination point is marked with an arrow icon. As you navigate a route, the waypoint list automatically updates to indicate the next active point first. The Active Route and Route Review Pages share many of the same features and options. For more information on the Active Route Page, see page 17.

Highway Page Set Up NOTE: The Active Route Page only appears when the unit is navigating to a destination using a route, TracBack, or Go To. The following options are available from the Highway Page menu: Set Up Highway--selects what waypoints and tracks are shown on the Highway display. Use the ROCKER and ENTER keys to select or deselect the options. Change Numbers--specifies the type of data displayed in each data field used.

For detailed instructions on changing the data fields and layout of the Highway Page, see page 31. GPSMAP 188/188C Sounder Owner's Manual Active Route Page 37 MAIN PAGES > ACTIVE ROUTE PAGE Active Route Page Options The following options are available from the Active Route Page: · Hide/Show Numbers--see page 31 for instructions (same as Map Page option). · Change Numbers--see page 31 for instructions. · Edit on Map--see page 17 for instructions. · Add Before--see page 17 for instructions.

· Remove--see page 17 for instructions. · Invert--reverses the direction of the route. · Re-evaluate--recalculates and reactivates the current route.



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· Invert--reverses the route. 1.

From the Active Route Page, press MENU. 2. Using the ROCKER, highlight Invert, and press ENTER to reverse the route. Re-evaluate--reactivates the current route and selects the route leg closest to your current location as the active leg. The active leg defines the current from and to waypoints. To re-evaluate an active route: 1. From the Active Route Page, press MENU. 2. Using the ROCKER, highlight Re-evaluate and press ENTER to recalculate. To invert an active route: 38 GPSMAP 188/188C Sounder Owner's Manual MAIN MENU > GPS TAB MAIN MENU The Main Menu provides access to various waypoint, system, navigation, interface management, and setup menus.

The 19 Menu tabs are divided into categories by function. The Main Menu is available from any page in the system, and is accessed by pressing MENU twice.

See page 6 for additional instructions on changing settings and entering data. Sub Tabs 1. Press up or down on the ROCKER to highlight a tab. The information for the highlighted tab automatically appears to the right. If you want to select any of the sub tab items, press right on the ROCKER, and press up or down to select individual items. 2. Either press MENU for additional submenu options, or press ENTER to make changes to the highlighted item. Press left on the ROCKER to get back to the Main Menu tabs list.

3. Press QUIT to return to the Main Menu. To select a Menu tab from the Main Menu Page: GPS Tab Main Menu Tabs The GPS tab provides a visual reference of satellite acquisition, receiver status, and accuracy. The status information provides an idea of what the receiver is doing at any given moment.

The sky view and signal strength bars give you an indication of what satellites are visible to the receiver and whether or not they are being tracked.

The signal strength is shown on a bar graph for each satellite, with the satellite number below. As the receiver locks onto satellites, a signal strength bar appears for each satellite in view. Main Menu GPSMAP 188/188C Sounder Owner's Manual 39 MAIN MENU > GPS TAB The progress of satellite acquisition is shown in three stages: · No signal strength bars--the receiver is looking for the satellites indicated. · Light signal strength bars--the receiver has found the satellite(s) and is collecting data. · Dark signal strength bars--the receiver has collected the necessary data and the satellite(s) are ready for use.

Receiver Status DOP Differential Status You can use the sky view to help determine if any satellites are being blocked, and whether you have a current location fix (indicated by a 2D, 2D Differential, 3D, or 3D Differential in the status field). The sky view shows a bird's-eye view of the position of each satellite relative to the receiver's last known location. The outer circle represents the horizon (north up), the inner circle 45° above the horizon, and the center point a position directly overhead. You can also set the sky view to a Track Up configuration, causing the top of the sky view to align along your current track heading.

Accuracy WAAS Capability Sky View Signal Strength Bars The GPSMAP 188/188C Sounder is capable of receiving WAAS (Wide Area Augmentation System) satellite signals. WAAS is an FAA (Federal Aviation Administration) funded project to improve the overall accuracy and integrity of the GPS signal for aviation use, but land/sea based users can also benefit from this system. At this time, the system is still in the development stage and is not fully operational. There are currently two WAAS satellites that can be received in the U.S.A.

, one over the Atlantic Ocean and one over the Pacific The status field indicates a 2D or 3D, when the GPSMAP 188/188C Sounder has collected the necessary data from satellites to calculate a fix. The unit then updates the location, date, and time. 40 GPSMAP 188/188C Sounder Owner's Manual MAIN MENU > GPS TAB Ocean, in a geo-stationary orbit over the equator. Effective use of the WAAS satellite signal can be limited by your geographic location in relation to those satellites, now in developmental service. WAAS satellite signal reception requires an absolute clear view of the sky and works best when there are no nearby obstructions such as buildings or mountains. WAAS satellites are numbered 33 or higher when viewing the sky view on your GPSMAP 188/188C Sounder. Initial reception of the WAAS signal can take up to 15-20 minutes, then 1-2 minutes afterward. When WAAS differential correction has been received for GPS satellites (numbers 32 or below), a D appears in the signal bar of the sky view and 2D or 3D Differential appears in the receiver status. To learn more about the WAAS system, its satellite positions and current state of development, visit the FAA web site (<http://gps.faa.gov>).

Because WAAS requires CPU resources of the GPSMAP 188/188C Sounder to search for and track the satellites, you can disable the WAAS feature to improve unit performance if WAAS reception is not available in your area. Refer to the "Appendix" for more information. 1. From the GPS tab, press MENU.

2. Use the ROCKER to highlight WAAS Off or WAAS On, and press ENTER. To Disable/Enable WAAS capability: Highlight WAAS Off, and press ENTER to disable the WAAS capabilities. GPSMAP 188/188C Sounder Owner's Manual 41 MAIN MENU > GPS TAB · AutoLocate--the receiver is looking for any satellite whose almanac has been collected. This process can take up to five minutes.

· Acquiring Satellites--the receiver is looking for and collecting data from satellites visible at its last known or initialized position, but has not collected enough data to calculate a fix. · 2D--at least three satellites with good geometry have been acquired and a 2 dimensional position fix (latitude and longitude) is being calculated. "2D Differential" appears when you are receiving DGPS corrections in 2D mode and a D shows on the strength bar of satellites being corrected. · 3D--at least four satellites with good geometry have been acquired and your location is now being calculated in latitude, longitude and elevation. "3D Differential" appears when you are receiving DGPS corrections in 3D mode and a D shows on the strength bar of satellites being corrected. · Poor GPS Coverage--the receiver is no longer tracking enough satellites for a 2D or 3D fix. · Receiver Not Usable--the receiver is unusable, possibly due to interference or abnormal satellite conditions. Turn the unit off and back on to reset. · Simulating--the receiver is in Simulator Mode. 42 The Differential Receiver status shows one of the following: · Off--No optional beacon receiver attached or enabled in the Comm menu or WAAS Off.

· Searching For WAAS--WAAS is enabled and receiver is searching for WAAS signal. · Using WAAS--WAAS capability enabled and unit receiving WAAS corrections.



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