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You can read the recommendations in the user guide, the technical guide or the installation guide for GARMIN GPSMAP 176C. You'll find the answers to all your questions on the GARMIN GPSMAP 176C 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 176C
User guide GARMIN GPSMAP 176C
Operating instructions GARMIN GPSMAP 176C
Instructions for use GARMIN GPSMAP 176C
Instruction manual GARMIN GPSMAP 176C

The image shows the cover of the Garmin GPSMAP 176/176C owner's manual. At the top left is the Garmin logo. The title 'GPSMAP® 176/176C' is prominently displayed in large, bold, black letters. Below the title, the text 'chartplotting receiver' is written in a smaller, blue, italicized font. Further down, 'owner's manual' is written in a black, italicized font. On the right side of the cover, there is a photograph of the GPSMAP 176C device, which is a handheld chartplotter with a color screen showing a map and various data points. The device has a black casing and a silver antenna on top.



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Manual abstract:

1200 East 151st Street, Olathe, Kansas 66062, U.S.A. Tel. 913/397.8200 or 800/800.1020 Fax 913/397.8282 Garmin (Europe) Ltd. @@Tel. 44/0870.8501241 Fax 44/0870.8501251 Garmin Corporation No. 68, Jangshu 2nd Road, Shijr, Taipei County, Taiwan Tel. 886/2.2642.

9199 Fax 886/2.2642.9099 All rights reserved. @@@@Information in this document is subject to change without notice. Garmin reserves the right to change or improve its products and to make changes in the content without obligation to notify any person or organization of such changes or improvements.

Visit the Garmin Web site (www.garmin.com) for current updates and supplemental information concerning the use and operation of this and other Garmin products. Garmin®, GPSMAP®, AutoLocate®, TracBack®, BlueChart®, and MapSource® are registered trademarks of Garmin Ltd. or its subsidiaries and may not be used without the express permission of Garmin. January 2005 Part Number 190-00185-10 Rev. C Printed in Taiwan INTRODUCTION > ABOUT THIS MANUAL INTRODUCTION Thank you for choosing the Garmin® GPSMAP® 176/176C. The GPSMAP 176/176C utilizes the proven performance of Garmin GPS and full-featured mapping to create an unsurpassed portable GPS receiver. Please take a moment now to compare the contents of this package with the packing list on the outside of the box. If any pieces are missing, contact your Garmin dealer immediately.

The Main Pages chapter provides detailed explanations about each page in the GPSMAP 176/176C and step-by-step directions on using the pages. The Main Menu chapter provides detailed explanations about the Main Menu and how to use it to configure your unit. The Appendix contains information such as specifications, optional accessories, and maintenance information. You can also find warranty and FCC information in the Appendix. Read the Safety Information to learn how to install and use your Garmin GPSMAP 176/176C safely and responsibly. An Index is provided at the end of the manual for reference. Simply look up the topic you wish to learn about and read the page or pages listed. About This Manual To get the most out of your new navigation system, take time to read this manual and learn the operating procedures for your unit in detail. This manual is organized into the following chapters. The Introduction chapter contains the Table of Contents as well as GPSMAP 176/176C care information.

The Getting Started chapter provides information such as an overview of unit features to help you get acquainted with your new GPSMAP 176/176C. The Basic Operation chapter provides you with information about features such as using the Find Menu, navigating a route, and using waypoints. There are also step-by-step directions to assist you in these operations. GPSMAP 176/176C Owner's Manual i INTRODUCTION > CARE INFORMATION Care Information Cleaning the Unit The GPSMAP 176/176C is constructed of high quality materials and does not require user maintenance other than cleaning. Clean the unit using a cloth dampened with a mild detergent solution and then wipe dry.

Avoid chemical cleaners and solvents that may damage plastic components. WARNING: The GPSMAP 176/176C lens is coated with a special anti-reflective coating which is very sensitive to skin oils, waxes, and abrasive cleaners. CLEANERS CONTAINING AMMONIA HARM THE ANTI-REFLECTIVE COATING. It is very important to clean the lens using an eyeglass lens cleaner that is specified as safe for anti-reflective coatings and a clean, lint-free cloth. Immersing the Unit in Water The GPSMAP 176/176C is waterproof to IEC Standard 60529 IPX7.

It can withstand immersion in 1 meter of water for 30 minutes. Prolonged submersion can cause damage to the unit. After submersion, be certain to wipe and air dry the unit before reuse. To resolve problems that cannot be remedied using this guide, contact Garmin Product Support in the U.S. at 800/800.1020 or Garmin Europe at 44/0870.8501241. Storing the GPSMAP 176/176C Do not store the GPSMAP 176/176C where prolonged exposure to temperature extremes may occur (such as in the trunk of a car) as permanent damage may result. User information, such as waypoints and routes are retained in the unit's memory without the need for external power.

It is always a good practice to back up important user data by manually recording it or downloading it to a PC (transferring it to MapSource). ii GPSMAP 176/176C Owner's Manual INTRODUCTION > TABLE OF CONTENTS Table of Contents Introduction.....

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.....he first time the unit is used or if it has been stored for several months. This process is automatic and should only take a few minutes. The GPSMAP 176/176C stores orbital data for each satellite in an Almanac. The orbital data is supplied in the satellite signals. Each time the unit receives satellite signals, the Almanac is updated. If the unit has not been used for several months or has moved over six hundred miles between uses, the Almanac can become "cold. " If the Almanac is "cold," the orbital data is no longer valid and your unit may take longer to lock on to satellites while updating the Almanac. 1. Take the

unit outside where it has an unobstructed view of the sky and turn it on. Make sure the antenna is pointed up. Following the screen prompts, press ENTER to display the GPS Information page.



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2. The unit searches for satellite signals and begin to gather and save the information that it needs to become operational. 3. When the unit is able to navigate, the message 2D GPS Location or 3D GPS Location is displayed at the top of the GPS Information page, and the unit automatically switches to the Map page. To initialize the GPS receiver: If the unit is unable to gather the necessary satellite information, an options menu appears.

Select New Location, then Automatic and allow the unit to continue initializing. This selection forces the unit to search for all satellites. The unit may take a little longer to become operational using this method. GPS Information Page GPSMAP 176/176C Owner's Manual 7 BASIC OPERATION > INITIALIZING THE GPS RECEIVER Initialization Options If the GPSMAP 176/176C is unable to determine its location, an options menu appears. Depending on the situation, select the appropriate option to help the unit acquire satellites. New Location--if you have moved to another state, province, or country, and are having trouble locking on to satellites, select New Location. Another menu is displayed with the options Automatic or Use Map. If Automatic is selected, the unit switches to AutoLocate mode and begins searching for satellites. If Use Map is selected, use the pointer on the Map page to select your approximate location and the unit continues to acquire satellites normally. Automatic may take longer to acquire satellites.

Stored w/o Batteries--if you have stored the unit without batteries, the date stored in the GPS may be incorrect. To check the date, highlight Stored w/o Batteries and verify the date displayed below the options menu. If the date is incorrect, press ENTER and select Stored w/o Batteries to search for satellites. Continue Acquiring--if you are in an area where the satellites are temporarily being blocked. For more information on the GPS Information page, see page 50. Start Simulator--turns the GPS receiver off for use indoors or practice. This options saves battery power and allows the map to redraw faster. 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.

8 GPSMAP 176/176C Owner's Manual BASIC OPERATION > USING THE MAP POINTER Using the Map Pointer The map pointer allows you to pan away from your present location and scroll to other map areas around the world, even outside of your current detailed coverage area. As you pan past the edge of the current map display, the screen actively scrolls forward to provide continuous map coverage. Keep in mind that the boat icon moves with the scrolling map, and may not be visible on the display screen. Press the ROCKER up, down, left, or right direction to move the map pointer. NOTE: When the pointer reaches the edge of the map, the unit may pause as it loads new map data.

As you move the pointer, the distance and bearing from your present location to the pointer are displayed in the data window, along with the pointer's location coordinates. When you zoom in pan mode, the pointer stays centered on the screen. Press QUIT to exit pan mode and re-center on your current location. The pointer may also be used to highlight on-screen waypoints and map items, allowing you to review a selected location directly from the map display. To highlight an on-screen map item with the pointer: Use the ROCKER to move the pointer to the desired waypoint or map item.

If there are several waypoints grouped closely together, zoom in closer for a better view. When a waypoint or map item is highlighted, the name and location are displayed at the top of the screen. Position the pointer over an item on the map to highlight it. GPSMAP 176/176C Owner's Manual 9 BASIC OPERATION > USING THE MAP POINTER 1. With the waypoint or map item highlighted, press ENTER. 2. If the item is a waypoint, the Waypoint Review page appears. The waypoint name, symbol, coordinates, elevation, depth, and the options to Delete, Show Map, or OK are displayed. Use the ROCKER to highlight OK or press QUIT to exit the Waypoint Review page. If the item is a map feature or a feature of BlueChart or MapSource data, an Information page appears.

In some cases, additional information tabs and option buttons appear. Use the ROCKER to highlight the individual tabs to display the additional information and options. Press QUIT to exit the Information page. To view additional details about an on-screen waypoint or map item: The pointer may also be used to create a new waypoint directly from the map. Refer to "Creating and Using Waypoints" on page 12. Information tabs for BlueChart data (Chart tab shown). Select Show Notes to view additional notes about the chart or Map List to view the list of maps on your data card through the Data Card Information screen.

10 GPSMAP 176/176C Owner's Manual BASIC OPERATION > SELECTING MAP ZOOM RANGES Selecting Map Zoom Ranges The map display has 28 available zoom ranges from 20 ft. to 800 mi. (5 m to 1,200 km).

The zoom range is controlled by the IN and OUT keys, with the current range displayed at the bottom right of the data window. 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. The GPSMAP 176/176C has a built-in worldwide database. More detailed coverage is available through optional BlueChart or MapSource data.

The GPSMAP 176/176C displays cartography as long as chart information is available for the range you select. Map coverage conforms to the following conditions: · When the selected zoom range is covered by either the internal database, BlueChart, or MapSource data, mapping 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. Using Built-In Basemap Using BlueChart/MapSource Data Overzoom, no additional data GPSMAP 176/176C Owner's Manual 11 BASIC OPERATION > CREATING AND USING WAYPOINTS Creating and Using Waypoints The Garmin GPSMAP 176/176C stores up to 3,000 alphanumeric waypoints with a user-defined icon, comment, and depth available for each waypoint.

Waypoints can be created using three basic methods: · ENTER/MARK Key--used primarily for marking your present location, the ENTER/MARK key also provides options that allow you to select a map location or map item from the map display. You may also use the ENTER/MARK key to create a waypoint projected from a user-defined location. · Graphically--allows you to define a new waypoint location from the map display using the ROCKER key.



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Text Entry--allows you to enter a new waypoint's location coordinates manually. Marking Your Present Location The ENTER/MARK key lets you quickly create a new waypoint at your present location. You must have a valid location (2D or 3D) fix to mark your present location. This can be determined by looking at the GPS tab on the Main Menu. Refer to page 50 for more information on the Main Menu GPS tab. 1. Press and hold ENTER/MARK until the New Waypoint window appears.

A default three-digit name and symbol for the new waypoint appears. 2. To accept the waypoint with the default name and symbol, highlight OK and press ENTER/MARK. 3. To enter a different name, highlight the name field and press ENTER/MARK. Then use the ROCKER to enter the new letter/numbers and press ENTER/MARK when done. You may use up to 10 alphanumeric characters for the name. 4. To enter a different symbol, highlight the symbol field to the left of the name and press ENTER/MARK. Then use the ROCKER to highlight the new symbol and press ENTER/ MARK.

5. To enter optional comments, elevation, or depth, highlight the appropriate field and press ENTER/MARK. Then use the ROCKER to enter a value and press ENTER/MARK. 6. To manually enter a set of coordinates, highlight the coordinates and press ENTER/MARK.

Then use the ROCKER to enter the new coordinates and press ENTER/ MARK when done. 7. When done, use the ROCKER to highlight OK and press ENTER/MARK to save the waypoint. To mark your present location: 12 GPSMAP 176/176C Owner's Manual BASIC OPERATION > CREATING AND USING WAYPOINTS Creating Waypoints Graphically Waypoints may also be quickly created with the map pointer, which allows you to create a waypoint at any map location or map feature. When you move the pointer over a map item, you see a highlighted description of that item.

The GPSMAP 176/176C uses the map item text shown on the cartography as the default name and symbol for the new waypoint. To create a new waypoint on an open map location (not a map feature): 1. Use the ROCKER to move the pointer to the location where you wish to create a waypoint. 2. Press and release ENTER/MARK. (Pressing and holding ENTER/MARK marks your present location, not the map pointer's location.) 3. The New Map Waypoint page appears. To accept the waypoint with the default name and symbol, highlight OK and press ENTER/MARK. 4.

To change the name, symbol, location, or enter comments, elevation, or depth, highlight the appropriate field and press ENTER/MARK. Make your changes and press ENTER/MARK when done. After entering and confirming your changes, highlight OK and press ENTER/MARK. 1. Use the ROCKER to move the pointer and highlight the desired map feature. 2. Press ENTER/MARK to capture the pointer location. An Information page for that map feature appears.

Highlight Create Wpt and press ENTER/MARK. 3.

The New Waypoint page appears. To accept the waypoint with the default symbol and name based on the map feature, highlight OK and press ENTER/MARK.

4. To change the name, symbol, location, or enter comments, elevation, or depth, highlight the appropriate field and press ENTER/MARK. Make your changes and press ENTER/MARK when finished.

After entering and confirming your changes, highlight OK and press ENTER/MARK. To create a new waypoint from a map feature or item: Choose Create Wpt on the Information page to create a new waypoint at this map item's location. GPSMAP 176/176C Owner's Manual 13 BASIC OPERATION > CREATING AND USING WAYPOINTS Waypoints may also be created by manually entering location coordinates through the Points tab of the Main Menu. This method can be useful for creating a waypoint at a specific latitude/longitude location from a chart. Entering Coordinates Highlight the location field and use the ROCKER to enter the desired position coordinates.

1. Press MENU twice to display the Main Menu. Highlight the Points tab and press MENU. 2. Highlight Create Waypoint and press ENTER/MARK. The New Waypoint page appears, with the next available waypoint number and the receiver's last know location as the default name and location. 3. Use the ROCKER to highlight the location field and press ENTER/MARK. Use the ROCKER to enter the desired location coordinates and press ENTER/MARK when finished. 4.

To change the name, symbol, or enter comments, depth or elevation, highlight the appropriate field and press ENTER/ MARK. Make your changes and press ENTER/MARK. 5. Use the ROCKER to highlight OK and press ENTER/MARK to save the waypoint. To create a new waypoint by entering location coordinates: 14 GPSMAP 176/176C Owner's Manual BASIC OPERATION > CREATING AND USING WAYPOINTS Projecting Waypoints A waypoint may also be created by projecting the distance and bearing from a specific location to a new location. Start by accessing the New Waypoint page or the New Map Waypoint page. To create a new waypoint by projecting its location: 1. Create a new waypoint using one of the methods previously described. The New Waypoint page is now on your screen. 2.

Verify the field to the right of the word From reads Current Location. If it does not, highlight the field and press ENTER/ MARK, select Current Location, and press ENTER/MARK. 3. Highlight the distance and/or bearing fields below From Current Location and press ENTER/MARK. Use the ROCKER to enter the projected distance and bearing from your current location for the new waypoint and press ENTER/ MARK.

4. Make any other desired changes to the new waypoint data, such as the name and symbol, highlight OK, and press ENTER/MARK. Select a point from which to project a new waypoint. GPSMAP 176/176C Owner's Manual 15 BASIC OPERATION > CREATING AND USING WAYPOINTS Two additional options are available by pressing MENU on the New Waypoint and New Map Waypoint pages: Average Location and Append To Route. These menu options also appear on the Waypoint Edit and Waypoint Review pages.

Waypoint Menu Options 1. Select Average Location from the options menu. 2. The Average Location screen appears. Watch as the fields change as the unit calculates the average location of the waypoint. When you are satisfied with the average location, press ENTER/MARK. To calculate the average location: Append to Route--adds the new waypoint to the end of a route. Waypoint Menu Options Average Location--takes several sample location measurements for the waypoint and recalculates for a more accurate location reading. 1. Select Append To Route from the options menu.

2. The Select Route screen appears. Highlight the desired route or select New Route and press ENTER/MARK. 3. Highlight OK press ENTER/MARK to save the waypoint. To append a new waypoint to a route: Average Location Screen 16 GPSMAP 176/176C Owner's Manual BASIC OPERATION > CREATING AND USING WAYPOINTS Reviewing and Editing Waypoints Once you have created and stored a waypoint, it may be modified, reviewed, renamed, moved, or deleted at any time through the Waypoint Review and Waypoint Edit pages.



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1. Use the **ROCKER** to highlight the desired waypoint on the Map page. 2. Press **ENTER/MARK** to display the Waypoint Review page. If the waypoint is located on a map feature or MapSource feature, the Waypoint Review page includes additional information tabs about the other features at that location. 1. Press **MENU** twice to view the Main Menu. Use the **ROCKER** to highlight the Points tab, then highlight the desired waypoint from the User or Proximity lists. 2.

Press **ENTER/MARK** to display the Waypoint Edit page. If the waypoint is located on a map feature, or MapSource or BlueChart feature, the Waypoint Edit page does NOT display the details of the other map features. To access the Waypoint Review page: Select **OK** to exit/save changes and return to the Map page. To access the Waypoint Edit page: To change the waypoint name: 1. Highlight the waypoint name field and press **ENTER/MARK**.

2. Use the **ROCKER** to enter a new name and press **ENTER/ MARK** when done. To change the waypoint symbol: From the Waypoint Review and Edit pages, you may change the name, symbol, comment, location coordinates, or depth for the selected waypoint. Once the changes have been made, highlight **OK** (Waypoint Review page) or **Next** (Waypoint Edit page) and press **ENTER/MARK** to save them. GPSMAP 176/176C Owner's Manual 1. Highlight the waypoint symbol field to the left of the waypoint name and press **ENTER/MARK**. 2. Use the **ROCKER** to select the desired symbol and press **ENTER/MARK** when done. 17 BASIC OPERATION > CREATING AND USING WAYPOINTS 1. Highlight the desired field and press **ENTER/MARK**.

2. Use the **ROCKER** to edit/enter the data. To drop to the next line, press to the Right on the **ROCKER**. Press **ENTER/MARK** when done. To change the Comment, Location, Coordinates, Elevation, or Depth: 1. To select a different location, highlight the field next to From, select a location and press **ENTER/MARK**. 2. Highlight the distance and/or bearing field and use the **ROCKER** to edit the data. Press **ENTER/MARK** when finished. See "Projecting Waypoints" page 15.

To change the distance/bearing from your current location or another location: Waypoint Review page for a waypoint located on multiple map features. The tabs only appear when BlueChart data is being used. You may also use the Waypoint Review and Waypoint Edit pages to delete the selected waypoint, view the waypoint on the map, and move the waypoint on the map. On the Waypoint Review/Waypoint Edit page, use the **ROCKER** to highlight Delete and press **ENTER/ MARK**. With **OK** highlighted, press **ENTER/MARK** again to confirm the deletion.

Moving a waypoint on the map. (BlueChart map data shown.) 18 GPSMAP 176/176C Owner's Manual BASIC OPERATION > CREATING AND USING WAYPOINTS 1. From the Waypoint Review/Waypoint Edit page, highlight Show Map and press **ENTER**. The waypoint is highlighted on a map screen with an information window at the top that shows the waypoint name, location, distance, and bearing from your current location.

2. To move the waypoint, press **ENTER**. A MOVE label now appears under the map pointer. It may be necessary to use the **IN** and **OUT** keys to zoom in or out on the map. 3. Use the **ROCKER** to move the waypoint to a new location. As you move the pointer around the map display, the information window at the top changes to show the distance, bearing, and location of the map pointer (in relation to the waypoint's location) and a description of where the pointer is on the map. If you wish to stop the move process, press **QUIT**. 4. With the pointer at the desired location, press **ENTER**.

To return to the Waypoint Edit/Waypoint Review page, press the **QUIT** button. To view and move a waypoint on the map: Waypoint Lists The GPSMAP 176/176C's Main Menu page features three submenus of the Points tab, User, Proximity, and Recent, that let you manage a large number of waypoints quickly and efficiently. The submenu tabs also provide a continuously updated proximity waypoint alarm that can be used to define an alarm circle around points such as submerged hazards, shallow waters, and restricted waters. To access the waypoint submenus, press **MENU** twice and highlight the Points tab using the **ROCKER**, then highlight the desired submenu tab. On the Show Map display, two additional options are available by pressing **MENU**: Measure Distance--allows you to measure the distance and bearing between two points on the map. See page 43 for more information. Point to on Main Map--exits the Waypoint Review/Waypoint Edit page and returns you to the highlighted waypoint on the Map page. GPSMAP 176/176C Owner's Manual The Points tab of the Main Menu 19 BASIC OPERATION > CREATING AND USING WAYPOINTS User Waypoint List The User submenu of the Points tab displays a master list of all waypoints currently stored in memory. From the User list, you may review, edit, rename or delete individual waypoints, or delete all user waypoints. The total number of stored and available waypoints is displayed at the bottom of the User page, with the stored waypoints arranged in numerical/alphabetical order.

To scroll through and review the waypoint list: 1. With the **ROCKER**, highlight the Points tab on the Main Menu, then highlight User. 2. Use the **ROCKER** to scroll through the list. 3.

Press **ENTER** to review the highlighted waypoint on the Waypoint Edit page. See page 17 for detailed information on reviewing and editing waypoints. 4. Highlight Next and press **ENTER** to return to the list. The cursor automatically highlights the next waypoint in the list.

1. Highlight the name field and press **ENTER**. 2. Use the **ROCKER** to select the first letter of the name. 3. Move to the Right and enter the second letter if you do not see it on the list below. 4. Repeat this until the name appears. Press **ENTER** when you see the name. 5.

Highlight the name on the list and press **ENTER** to review the waypoint. When done, highlight **OK** and press **ENTER**. To search for a waypoint by name:

Waypoint List Name Field 20 GPSMAP 176/176C Owner's Manual BASIC OPERATION > CREATING AND USING WAYPOINTS User Waypoints List Options The following options are available by pressing **MENU** while highlighting the Points tab, the User submenu, or one of the User waypoint names: 1. Use the **ROCKER** to highlight the waypoint you want to delete. 2. Press **MENU**, then highlight Delete Waypoint and press **ENTER**. OR Press **ENTER**, then highlight Delete and press **ENTER**. 3. Press **ENTER** to confirm. 1.

Highlight the waypoint you want to delete and press **MENU**. Select Delete By Symbol and press **ENTER**. 2. Use the **ROCKER** to highlight the symbol of the waypoint(s) to be deleted and press **ENTER**. 3.

Press **ENTER** to confirm. Choose Cancel or press **QUIT** to stop the deletion. 1. Press **MENU**. 2.

Highlight Delete All and then press **ENTER**. 3. Highlight **OK** and press **ENTER** to confirm. To delete an individual waypoint from the User list: To delete waypoints by symbol: Create Waypoint--creates a new waypoint. (See page 12.) Delete Waypoint--deletes selected waypoint from list and any route in which it was used.



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Delete By Symbol--deletes all waypoints that use the same symbol. Delete All--deletes all waypoints from the unit. NOTE: Once a waypoint is deleted from the list, it cannot be recovered from the unit. It is advisable to backup important waypoints to a computer using the optional PC cable and interface software or write them down by hand.

GPSMAP 176/176C Owner's Manual To delete all user waypoints: 21 BASIC OPERATION > CREATING AND USING WAYPOINTS Proximity Waypoint List The Proximity submenu of the Points tab lets you define an alarm circle around a stored waypoint location, which can be used to help you avoid reefs, rocks, or restricted waters. Up to ten waypoints may be listed, with a maximum alarm radius of 99.99 nautical miles, statute miles, or kilometers. If a proximity alarm circle overlaps with an existing alarm circle, a "Proximity Overlaps Another Proximity Waypoint" message appears. Since the unit only alerts for one of the overlap points, use caution when navigating in these areas. If you enter an alarm circle overlap, you are only alerted to the closest proximity waypoint. Proximity Waypoint Proximity Circle Proximity Waypoint List 1. Use the ROCKER to highlight an empty space on the Proximity List and press ENTER. The Find screen appears. Highlight Waypoints and press ENTER.

2. Highlight the desired waypoint from the By Name or Nearest tab lists. The Waypoint Review page now appears for the selected waypoint. 3. With OK highlighted, press ENTER to confirm.

The distance field is now highlighted. 4. Press ENTER to begin entry of the proximity radius. 5. Use the ROCKER to enter a distance (up to 99.99 units) and press ENTER. GPSMAP 176/176C Owner's Manual To add a proximity waypoint: 22 BASIC OPERATION > CREATING AND USING WAYPOINTS To turn proximity alarms on or off: 1. Use the ROCKER to highlight the field below Proximity Alarm and press ENTER. 2. Select the desired ON or OFF setting and press ENTER. The following options are available from the Proximity submenu of the Points tab: 1. Use the ROCKER to highlight the proximity waypoint to clear and press MENU. 2. To clear a single alarm, highlight the Remove Point option and press ENTER. 3.

To clear all proximity waypoints, select the Remove All option and press ENTER. 4. Use the ROCKER to highlight the OK prompt and press ENTER to confirm. Recent Waypoint List The GPSMAP 176/176C also contains a recent waypoint list. This list records your recent waypoint finds along with the bearing and distance from your current location. Pressing MENU activates a submenu allowing you to remove one or all of the entries in this list. To clear one or all proximity waypoint(s) from the list: GPSMAP 176/176C Owner's Manual 23 BASIC OPERATION > GOING TO A DESTINATION The GPSMAP 176/176C provides four ways to navigate to a destination: Go To Point, Navigate Route, Navigate Track (TracBack), and MOB (Man OverBoard) navigation. Once you are actively navigating, a straight line that always runs from your current location to the destination appears on the Map page. The easiest method of navigation is a Go To, which lets you select a destination point and quickly sets a direct course from your present location. When you press NAV, Go To <point name> appears in addition to Go To Point.

The waypoint or map item name automatically appears when you highlight the point and press NAV. Going to a Destination To activate a Go To from the points list: Choose a waypoint from either the By Name or Nearest tab list. 1. Press the NAV key. 2. Highlight Go To Point and press ENTER. 3. From the Find menu, highlight Waypoints and press ENTER. You can also go to other points from this list, such as cities, tide stations, and nav aids. 4.

Select a waypoint from the By Name or Nearest and press ENTER. This displays the Waypoint Review page. 5. With Go To highlighted, press ENTER to begin navigation. 24 GPSMAP 176/176C Owner's Manual BASIC OPERATION > GOING TO A DESTINATION To stop navigation: 1. Press the NAV key. 2. Highlight Stop Navigation and press ENTER. A graphical Go To may be used to select one of three items from the map display: an existing waypoint, an on-screen map feature, such as roads, rivers, cities, and nav aids, or a new map point. If you are selecting a map item as a destination, the GPSMAP 176/176C automatically uses the name of the map item, but the point is not stored in the waypoint list.

See page 13 for creating waypoints using map features. If you are selecting a new map point as the Go To destination, the GPSMAP 176/176C automatically creates or move a waypoint named MAP at the pointer position. 1. Use the ROCKER key to highlight the waypoint or map item on screen and press NAV. 2. Highlight Go To <waypoint name> and press ENTER. Selecting a Go To Graphically Go To MAP Point allows you to navigate to a spot on the map that is not a waypoint or map item. To Go To a point on the map: To Go To a waypoint or map feature on the map: 1. Move the map pointer to the desired position. 2.

Press NAV, highlight Go To MAP Point, and press ENTER. GPSMAP 176/176C Owner's Manual 25 BASIC OPERATION > GOING TO A DESTINATION TracBack Navigation (Navigating a Track) TracBack allows you to retrace your path using the track log automatically stored in the receiver's memory. This eliminates the need to store waypoints along the way. TracBack routes are created by reducing your track log to a route of up to 50 turns and activating an inverted route along those points. Once 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 of your current trip.

Refer to the "Track Tab" on page 55 for more information. Default Track name Total Distance Check this box to display track Total number of points Changes the display color of the track. (GPSMAP 176C only) 1. Press MENU twice to display the Main Menu. 2. Using the ROCKER, highlight the Track tab, then highlight the Active tab to the right. 3. Select the Clear button and press ENTER. 4. Highlight OK and press ENTER. Press QUIT to exit. To clear the track log and define a starting point for a TracBack route: You must first save a track log before you can use the Navigate Track option. The Save feature allows you to store up to 15 track logs from certain times and dates. Highlight Save and press ENTER to save an active track log. 26 GPSMAP 176/176C Owner's Manual BASIC OPERATION > GOING TO A DESTINATION 1.

From the Main Menu, use the ROCKER to highlight the Track tab and then highlight the Active tab. 2. Select Save and press ENTER. 3. From the Save Back Through window, highlight the desired time, date, or Entire Log and press ENTER. The track begins saving and then displays the Save Track window when done. The default name, distance, and number of points (500 max) is displayed. To change the name of the saved track, highlight the name field and press ENTER.



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Then 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.

To view the track on the map, highlight Review on Map and press ENTER. Pressing MENU on this page activates the options to Measure Distance (see page 43) and Point to on Main Map, which exits the Save Track dialog. Press QUIT to return to the Save Track dialog. 4. Highlight OK and press ENTER to save the track.

Press QUIT to exit. To save a track log: 1. Press NAV, highlight Navigate Track, and press ENTER. 2. Highlight the track you wish to navigate and press ENTER.

3. Choose either Original, which navigates from the start to the end of your trip, or Reverse, which navigates from the end to the start of your trip (TracBack) and press ENTER. To activate a TracBack using the NAV key: You must first save a track before using the Navigate Track option. If there are no saved tracks, the Navigate Track option is disabled. Once a TracBack has been activated, the GPSMAP 176/176C takes the track currently stored in memory and divides it into segments called "legs." Up to 50 temporary "turns" are created to mark the most significant features of the track in order to duplicate your path as closely as possible. GPSMAP 176/176C Owner's Manual 27 BASIC OPERATION > GOING TO A DESTINATION To get the most out of the TracBack feature, remember these navigating tips: · Always clear the track log at the point that you want to return to, such as the camp site or dock. · Set the Record Mode option on the track log setup page to Fill or Wrap. · At least two track log points must be stored in memory to create a TracBack route. · If the track log interval is set to Time, the route may not navigate your exact path.

Keep the interval set to Resolution for best performance. · If the receiver is turned off or satellite coverage is lost during your trip, TracBack draws a straight line between any point where coverage was lost and where it resumed. · If your track's changes in distance and direction are too complex, 50 waypoints may not mark your path accurately. The receiver then assigns the 50 waypoints to the most significant points of your track and simplifies segments with fewer changes in direction. To stop TracBack navigation, press NAV. Highlight Stop Navigation and press ENTER. For more information on setting up the Track options and saving tracks, see pages 55-56. 28 MOB Man OverBoard (MOB) allows you to simultaneously mark your current position and set a course to a location for quick response to emergency situations. Highlight Yes and press ENTER to start navigation. 1.

Press and hold MOB, or press MOB twice. 2. Press ENTER to confirm and begin navigating to the MOB. To activate the MOB function: Once a MOB has been activated, 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 waypoints are stored in the waypoint list and may be deleted like any other waypoint. To stop navigation to the MOB location, press NAV, highlight Stop Navigation, and press ENTER. GPSMAP 176/176C Owner's Manual BASIC OPERATION > CREATING A ROUTE Creating a Route To create a route graphically: The last way to navigate to a destination is to create a user-defined route. The Garmin GPSMAP 176/176C lets you create and store up to 50 reversible routes with up to 50 waypoints each. Routes can be created in two ways.

The first is by selecting waypoints or map items from the Map page, allowing you to see each route point graphically on-screen as you create the route. The second is to select waypoints from the Find menu, allowing you to see a list of the route points as you create the route. Access the Main Menu to start creating a route. 1. Press MENU twice to display the Main Menu page. Use the ROCKER to highlight the Route tab. 2. Press MENU to display the Route Options page. Select New Route and press ENTER. Or Highlight the first blank slot in the Route List page and press ENTER.

3. To add an existing waypoint or map item to the route, use the ROCKER to highlight the desired item on the map and press ENTER. Map items added to your route do not appear in the waypoint list. See page 13 to create a waypoint from a map feature. Route Tab and Route Options Menu INS appears below the pointer as you add points. GPSMAP 176/176C Owner's Manual 29 BASIC OPERATION > CREATING A ROUTE 4. To add a new waypoint to the route, use the ROCKER to select the desired map location and press ENTER. The New Waypoint page appears. With OK highlighted, press ENTER again to confirm the new waypoint. You may also change the name, symbol, and other properties of the new waypoint.

(See page 17.) 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 the coordinates of the pointer. The bottom of the display shows you the number of available and used points. A route line appears on the map to indicate each completed leg, and a dotted line appears to indicate the distance and bearing from the last route waypoint to the map pointer location. 5.

Repeat steps 3 and 4 until you finish adding all route points. 6. When finished, press QUIT twice to return to the Route List; or press MENU, highlight Edit as Text, and press ENTER to view the Route Review page. 1. Press MENU twice to display the Main Menu.

Use the ROCKER to highlight the Route tab. 2. Press MENU to display the Route Options page. Select New Route and press ENTER. Or Highlight the first available blank route slot and press ENTER. 3. Press MENU, select Edit as Text, and press ENTER. 4. Use the ROCKER to highlight the first blank field under the word Waypoint and press ENTER. To create a route using text: To edit a route on the map from the Route Review page, press MENU, highlight Use Map and press ENTER.

Choose the type of point to add to the route. 30 GPSMAP 176/176C Owner's Manual BASIC OPERATION > CREATING A ROUTE 5. From the Find menu, highlight Waypoints and press ENTER. You may also choose from other points, such as Cities, Exits, and Tide Stations. Select the desired waypoint and press ENTER. Following a Route The NAV key activates the route for navigation. You can navigate the route in the same sequence as it was originally created, or inverted and navigated from the end waypoint back to the beginning waypoint. To activate and follow a route: 1. From any page, press NAV, use the ROCKER to highlight Navigate Route, and press ENTER. (If you highlight a route name on the Route List or Route Review page and press NAV, the window automatically displays, Navigate <the route name>.

) 2. Highlight the route you wish to navigate and press ENTER. 3. Choose Activate or Reverse and Activate and press ENTER.



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Activate uses the route as is; Reverse and Activate inverts and activates it.

The Active Route page appears. See the "Active Route Page" section on page 39. Choose a waypoint from either the By Name or Nearest tab list. 6. On the Point Review or Waypoint Review page, OK is automatically highlighted.

Choose Show Map and press ENTER to view the point on the map, then press QUIT to return to the Waypoint Review page. With OK highlighted, press ENTER to add the point to the route. 7. Repeat steps 4-6 until you finish adding route points. Press QUIT to return to the Route List page. 4. Press NAV, highlight Stop Navigation, and press ENTER to deactivate (stop following) the route. GPSMAP 176/176C Owner's Manual 31 BASIC OPERATION > CREATING A ROUTE The GPSMAP 176/176C Route List page, the Route tab of the Main Menu, displays all the routes currently stored in memory, along with a descriptive name for each route. By pressing the MENU button on the Route List page, the following menu options appear: Navigate, Go To Point, Navigate Route, Navigate Track, and Stop Navigation. Route List Page To select and follow a route: 1.

On the Route List page, use the ROCKER to highlight the desired route from the list and press NAV. 2. With Navigate <route name> highlighted, press ENTER. The Active Route page appears. See page 39. 3. To stop navigation, press NAV, highlight Stop Navigation, and press ENTER. If you highlight a route name from the Route List and press NAV, the name automatically appears as a navigation option. Route List Options Menu 32 GPSMAP 176/176C Owner's Manual BASIC OPERATION > CREATING A ROUTE 1. From the Route List, use the ROCKER to highlight the route you want to copy or delete and press MENU.

2. Choose either Copy Route or Delete Route and press ENTER. With OK highlighted, press ENTER again to delete (there is no confirmation window for copying a route). Copy uses the same route name with an additional number at the end of the route name or creates a new route name based on names of the first and last route points. To copy or delete a route: Route Review Page Once you have created a route, you can edit a selected route from the Route Review page.

Route Name Data Fields Route Points Data Totals To delete all routes: 1. From the Route List, press MENU. 2. Highlight Delete All and press ENTER. Highlight OK and press ENTER again to confirm.

1. Press MENU twice and highlight the Route tab. 2. Highlight the name of the route you wish to review and press ENTER. To get to the Route Review Page: GPSMAP 176/176C Owner's Manual 33 BASIC OPERATION > CREATING A ROUTE The Route Review page allows you to enter a 15-character name for any listed route. The GPSMAP 176/176C creates a default route name using the first and last waypoint names. To enter a custom route name: 1. From the Route Review page, highlight the name field and press ENTER to begin editing. 2. Use the ROCKER to enter the desired name and press ENTER when finished.

1. Highlight the desired point and press ENTER. 2. On the Point Review window, you may choose Next to highlight the next point on the route list, Show Map to show the point on a map window, or Delete to permanently delete the waypoint from the unit. Press ENTER to select an option. If the route point is a user waypoint, you may edit any of the waypoint properties on the Waypoint Review page. See page 17 for information on the Waypoint Review page. To review individual route points: Once you are on the Route Review page, you may review the route points (waypoints or map items) one at a time from the list. Once you are back on the Route Point list, the next point in the route is automatically highlighted. This allows you to review each point on the route by pressing ENTER repeatedly.

34 GPSMAP 176/176C Owner's Manual BASIC OPERATION > CREATING A ROUTE Route Review Menu Options By pressing MENU on the Route Review page, the following menu options are available: Use Map, Add Waypoint, Remove Waypoint, Reverse Route, Plan Route, and Delete Route. Remove Waypoint--allows you to remove a point (waypoint or map item) from a route. This option is available from both the Route Review and Active Route pages. Reverse Route--reverses the order of the route making the last point the first. Plan Route--displays trip-planning information for each leg or the entire route. Available information includes ETA, Fuel (to point), Leg Distance, Leg Fuel, Leg Time, Sunrise and Sunset (at point location), and Time To (point). Route Review Menu Options Delete Route--deletes a route from the Route List. Waypoints and map items in the route are not be deleted from unit memory. Use Map--allows you to review and modify the route displayed for each point (waypoint or map item) on a Map page. You may also use the pointer to insert a new route point on a route leg, review the waypoint, or map item.

Add Waypoint--allows you to insert a waypoint or point from the Find Menu before a waypoint that is highlighted on the route list, or add a point(s) onto the end of the route. GPSMAP 176/176C Owner's Manual 35 BASIC OPERATION > CREATING A ROUTE To add points to the beginning or end of the route: 1. With the map pointer, highlight the first route waypoint (to add waypoints to the beginning of the route) or last (to add waypoints to the end of the route) and press MENU. 2. Highlight Add and press ENTER. 3. Move the pointer to the new location and press ENTER. 4. If you are not inserting an existing waypoint, press ENTER to confirm the new waypoint. 5.

Repeat steps 3 and 4 to insert additional waypoints, or press QUIT to finish. Choose Next to center the map on the next point in the route. You can step through the points by repeatedly pressing ENTER. 1. Highlight the point and press ENTER. The Review page now appears on the screen. 2. Press QUIT to return to the same point on the map. Highlight Next and press ENTER to return to the map with the next route point highlighted. 1.

Use the ROCKER to highlight the desired route waypoint on the map and press MENU. 2. Highlight the field you wish to change, press ENTER, make the desired changes, and press ENTER again. To review a route point: To edit a route point: Highlight the route leg on which you wish to insert a waypoint and press ENTER. 36 GPSMAP 176/176C Owner's Manual BASIC OPERATION > CREATING A ROUTE 1.

Use the ROCKER to highlight the leg in which you want to insert the new waypoint. The route line highlights and changes to a dotted line when the leg is selected. Then press ENTER. 2. Move the pointer to the new map location, existing waypoint, or map item.

INS is now displayed below the pointer and the route lines moves with the pointer. Press ENTER. 3. If you are not inserting an existing point, press ENTER to confirm the new waypoint. 4. Press QUIT to return to the Route Review page. To insert a new point between two existing route waypoints: To insert a point into the route or add a point to the end: 1.



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On the Route Review page, use the **ROCKER** to highlight the point you wish to insert the new point before. To add a point to the end, highlight the blank field at the bottom of the list. Then press **MENU**.

2. Highlight **Insert Waypoint** or **Add Waypoint** and press **ENTER**. 3. From the **Find** menu, highlight **Waypoints** and press **ENTER**. You may also choose from other points, such as **Cities**, **Tide Stations**, and **Marinas**, from this list. From either the **By Name** or **Nearest** tab lists, choose the waypoint you want and press **ENTER** twice. Drag the route leg to an existing waypoint (shown), map item, or a blank spot on the map to create a new route point. Press **Left** or **Right** on the **ROCKER** to change the data field. *GPSMAP 176/176C Owner's Manual 37 BASIC OPERATION > CREATING A ROUTE 1. On the Route Review or Active Route pages, use the **ROCKER** to highlight a point and press **MENU** to remove.*

2. Highlight **Remove Waypoint** and press **ENTER**. To remove a point from a route: To reverse the route: 1. From either the **Route Review** page, press **MENU**.

2.

Highlight **Reverse Route** and press **ENTER**. 1. From the **Route Review** page press **MENU**. 2. Highlight **Delete Route** and press **ENTER**, then press **ENTER** again to confirm.

To delete a route: 1. To select the desired planning figure, highlight the desired route from the **Route List** and press **ENTER** to display the **Route Review** page.

2. One of nine available planning figures appears to the right of each route waypoint. Use the **Left/Right** keys on the **ROCKER** to view the desired item. 3. To enter planning information, from the **Route Review** page only, press **MENU** and select **Plan Route**. Enter the figures for **Speed**, **Fuel Flow**, **Departure Time**, and **Departure Date**. Press **QUIT** to return to the **Route Review** page. To use the **Trip Planning** feature: **Trip Planning Data Fields** **NOTE**: Fuel flow rates on your unit are measured in "units per hour."

" System setting changes for units of measure (statute, nautical, or metric) do not affect the fuel flow measure. You should enter fuel flow rates based upon available information from your vehicle's operator's manual performance specifications and make note of the desired units of measure (gallons or liters). 38 *GPSMAP 176/176C Owner's Manual BASIC OPERATION > FIND Active Route Page* Whenever you have activated a route in the *GPSMAP 176/176C*, the **Active Route** page shows each point (waypoint or map feature) of the active route. It also shows the point name, **Distance**, **Course**, **ETA**, **Fuel to point**, **Leg Distance**, **Leg Fuel**, **Leg Time**, **Sunrise and Sunset** at point location, and **Time To point** for each point from your present location. The current destination point, the "active" 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. The following route options are available from the **Active Route** page: · **Use Map**--see pages 35 for instructions. · **Insert/Add Waypoint**--see page 36-37 for instructions. · **Remove Waypoint**--see page 38 for instructions. · **Reverse Route**--see page 38 for instructions. · **Plan Route**--see page 38 for instructions. **FIND** allows you to search the unit for user waypoints, map items and any optional **BlueChart** or **MapSource** information loaded on a data card. The unit searches for items from your current location or from another location on the map. When you press **FIND**, a list of available items to search from appears.

The default items are **Waypoints**, **Cities**, **Exits**, **Tide Stations**, and **Transportation**. Additional items are displayed depending on the optional **BlueChart** or **MapSource** data card inserted into the unit. Your location or the map pointer must be within the map outline area to search for information from the **BlueChart** or **MapSource** data. Find **Find Menu** *GPSMAP 176/176C Owner's Manual 39 BASIC OPERATION > FIND 1* From any page, press **FIND**. 2. Using the **ROCKER**, highlight the desired category from the list and press **ENTER** until a search results list appears. 1. Once the search results list for a particular item is displayed, press **MENU**. Highlight **Nearest to Other** and press **ENTER**. If you are actively following a route, you may also choose **Nearest to Next** or **Nearest to Destination**. 2. Select a reference location on the map and press **ENTER**. The search results list changes to list items nearest to the new map location. **OR**: 1 From the **Map** page, use the **ROCKER** to pan to the desired location and press **FIND**. 2.

Using the **ROCKER**, highlight the desired category from the list and press **ENTER**. To find a waypoint or other item from your current location: You may 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 the **FIND** key. To find a waypoint or item from another location: Finding items from another reference point. To view details about an item: The **Find** option also supports a "find from" feature which allows you to center your search around an item which you have just found. For example, you search for "Restricted Areas" and you find a point named "Anchoring Prohibited." If you press **FIND** again, you see "From Anchoring Prohibited" as the new search from point. 40

With the desired item highlighted in the search results list, press **ENTER**. An **Information** page appears with details about the item in a tabbed format. Depending on the type of item, additional options are available for viewing the item on the **Map**, viewing notes on a **MapSource** or **BlueChart** map, viewing a tide chart, viewing the list of maps on your data card, and viewing the next item in the search results list.

GPSMAP 176/176C Owner's Manual MAIN PAGES > MAP PAGE MAIN PAGES The *GPSMAP 176/176C* contains five main pages: **Map**, **Compass**, **Highway**, **Active Route/Go To**, and **Numbers**. You can access these pages by pressing **PAGE** to cycle forward through the pages or **QUIT** to cycle backward until the page you wish is displayed. Each of the main pages has an options menu, allowing you to customize the page to your preferences and perform tasks that specifically relate to that page. The data window, located at the right side of the display, provides a user-selectable layout of various types of useful data.

Each data field may be configured to display any one of several data options.

The data window layout may also be customized to change the actual size of the data displayed. Land User Waypoint Geographic Name Data Fields Water Current Location Navais Map Range Map Page with optional **BlueChart** Marine data. Map Page The **Map** page provides a comprehensive display of electronic cartography, plotting, and navigational data. When using the unit with the optional **BlueChart** data or **MapSource** software, the map display shows your location on a digital chart, complete with geographic names, map items, navais, and a host of other chart features.



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It also plots your track and displays any routes and waypoints you create.

An on-screen pointer lets you pan and scroll to other map areas, determine the distance and bearing to a position, and perform various route and waypoint functions. GPSMAP 176/176C Owner's Manual Two basic map operating modes, position mode and pan mode, determine what cartography is shown on the map display. Position mode pans the cartography to keep the present position marker within the display area, while pan mode pans the cartography to keep the pointer within the display area. The GPSMAP 176/176C always powers up in the position mode, with the last known location centered on the map display. When you press the ROCKER, the GPSMAP 176/176C enters pan mode. For more information on Map page setup options, see pages 63-68. 41 MAIN PAGES

> MAP PAGE The Map page options menu provides access to functions and features relating to the Map page and options for layout of the page. Press MENU to display the Map page options: Measure Distance, Show/Hide Next Street, Setup Page Layout, Change Data Fields, Setup Map, and Declutter On/Off. Use the ROCKER to highlight the option and press ENTER to select. Measure Distance--allows you to measure the bearing/distance between two points on the map.

Show Next Street/Hide Next Street--displays the next cross street in a window at the top of the display. This option is only available if MapSource data is loaded. Highlight the Show Next Street option and press ENTER to show the next street. Highlight the Hide Next Street option and press ENTER to hide the next street window. Setup Page Layout--allows you to choose the size of text and number of data fields. @@This option is available from any of the main pages. Set Up Map--jumps to the Map tab of the Main Menu, allowing you to configure the map display to your preferences, including map detail, map orientation, automatic zoom, and various map items and points. The map setup option uses a file tab feature, organizing the various settings for ease of use.

Declutter On/Declutter Off--toggles between showing spot soundings and map outlines for easier viewing. Map Page Options 42 GPSMAP 176/176C Owner's Manual MAIN PAGES > MAP PAGE Distance and Bearing Map Pointer Pointer Coordinates Small (1 Column) Large (1 Column) Small (2 Columns) 2 Columns With Compass Page Layout Setup Options Full screen map shown (with BlueChart data) To measure the Bearing/Distance between two points: 1. From the Map page, press MENU. Highlight Measure Distance and press ENTER. An on-screen pointer appears on the map display at your present position.

2. Move the pointer to the desired reference point (the point that you want to measure from) and press ENTER.

3. Move the pointer to the point you want to measure to. The bearing and distance from the reference point and pointer coordinates are displayed in the data window at the top of the display. 4. Press QUIT to finish.

GPSMAP 176/176C Owner's Manual 1. From the Map page, press MENU. Highlight Setup Page Layout and press ENTER. 2. Select the desired option, None, Small (1 Column), Small (2 Columns), 2 Columns With Compass, or Large (1 Column), and press ENTER. To setup the page layout: 43 MAIN PAGES > MAP PAGE Highlight the data field you wish to change. Choose the type of data you wish to display. To change a data field: 1. From the Map page, press MENU. Highlight Change Data Fields 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. Select the data you want to display, and press ENTER. To exit, press QUIT. 1. From the Map page menu, highlight Set Up Map and press ENTER. 2. Use the ROCKER to highlight the desired file tab, highlight the setting you want to change, and press ENTER.

3. Press Up or Down on the ROCKER to highlight to the desired setting and press ENTER. 4. To exit, press QUIT. To change a map setup feature: 44 GPSMAP 176/176C Owner's Manual MAIN PAGES > COMPASS PAGE Compass Page Whenever a Go To, Navigate Track (TracBack), or Navigate Route is activated, the Compass page guides you to your destination with digital readouts and a graphic compass display, which includes a bearing pointer. Use this page when travelling at slower speeds, making frequent directional changes, or where straight-line navigation is not possible due to obstructions or terrain. The middle of the page features a rotating compass ring that shows your course over ground (track) while you are moving. Your present course over ground is indicated at the top of the compass ring. A bearing pointer, in the middle of the compass ring, 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.

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. NOTE: The bearing pointer and compass ring may point in various directions when you are stationary or at very low speeds. Once you start moving, the pointer is correct. The Compass 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 also be changed to display more/less data fields and change the actual size of the data displayed. Press MENU to display the Compass page options. @@See pages 43-44 for detailed instructions on changing the data fields and layout.

Compass Page Options Compass Page Options Compass Ring-- indicates current direction of travel Pointer--points toward destination while moving GPSMAP 176/176C Owner's Manual 45 MAIN PAGES > HIGHWAY PAGE Whenever a Go To, TracBack, or Route is activated, Highway page provides digital and graphic steering guidance to the destination. The right side of the Highway page features user-selectable data fields that display useful navigation information. A compass ribbon is displayed at the top of the page to show your current heading along with a dark, vertical bar which indicates the bearing to your course. To stay on course, steer towards the dark, vertical indicator (or arrows) until it lines up with the lighter gray bar in the middle. The bottom section of the screen provides visual guidance to the waypoint on a graphic highway display. The line down the center of the highway represents your heading. As you head toward your destination, the highway perspective moves to indicate your progress to the waypoint and which direction you should steer to stay on course. If you are navigating a route, the Highway page shows each route waypoint in sequence connected by a black road with a white line down the middle, which is your desired track line.



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