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You can read the recommendations in the user guide, the technical guide or the installation guide for GARMIN GPSMAP 2010C. You'll find the answers to all your questions on the GARMIN GPSMAP 2010C 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 2010C  
User guide GARMIN GPSMAP 2010C  
Operating instructions GARMIN GPSMAP 2010C  
Instructions for use GARMIN GPSMAP 2010C  
Instruction manual GARMIN GPSMAP 2010C



## GPSMAP 2006/2010 *chartplotters*



(GPSMAP 2006C and 2010C shown)

owner's  
manual  
and  
reference  
guide



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**Manual abstract:**

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This manual covers both the monochrome and color models of the GPSMAP 2006 and 2010, software version 5.2 and higher. This manual is broken down into two sections for your convenience. Section One introduces you to the GPSMAP 2006/2010 and provides a Getting Started tour so that you may become more familiar with the unit. This section will provide you with a basic working knowledge necessary to use the unit to its fullest potential. Section Two is divided into sections that provide detailed references to the advanced features of the GPSMAP 2006/2010. This allows you to concentrate on a specific topic quickly and can be used to look up detailed information about the GPSMAP 2006/2010. Software License Agreement Garmin's Technical Support Department can be reached Monday-Friday 8am to 5pm Central Standard Time. By phone at-- 1-800-800-1020 or 913-397-8200 By internet at-- <http://www.garmin.com/support/index.html> BY USING THE GPSMAP 2006/2010, YOU AGREE TO BE BOUND BY THE TERMS AND CONDITIONS OF THE FOLLOWING SOFTWARE LICENSE AGREEMENT. PLEASE READ THIS AGREEMENT CAREFULLY. Garmin grants you a limited license to use the software embedded in this device (the "Software") in binary executable form in the normal operation of the product. Title, ownership rights, and intellectual property rights in and to the Software remain in Garmin.

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The system is subject to changes which could affect the accuracy and performance of all GPS equipment. Although the Garmin GPSMAP 2006/2010 is a precision electronic NAVigation AID (NAVAID), any NAVAIID can be misused or misinterpreted and, therefore, become unsafe. The electronic chart is an aid to navigation and is designed to facilitate the use of authorized government charts, not replace them. Only official government charts and notices to mariners contain all information needed for safe navigation and, as always, the user is responsible for their prudent use. Use the GPSMAP 2006/2010 at your own risk.

To reduce the risk of unsafe operation, carefully review and understand all aspects of this Owner's Manual--and thoroughly practice operation using the simulator mode prior to actual use. When in actual use, carefully compare indications from the GPSMAP 2006/2010 to all available navigation sources, including the information from other NAVAIIDs, visual sightings, charts, etc. For safety, always resolve any discrepancies before continuing navigation. MAP DATA INFORMATION: One of the goals of Garmin is to provide customers with the most complete and accurate cartography that is available to us at a reasonable cost. We use a combination of governmental and private data sources, which we identify as required in product literature and copyright messages displayed to the consumer.

Virtually all data sources contain inaccurate or incomplete data to some degree. This is particularly true outside the United States, where complete and accurate digital data is either not available or prohibitively expensive. CAUTION: IT IS THE USER'S RESPONSIBILITY TO USE THIS PRODUCT PRUDENTLY. THIS PRODUCT IS INTENDED TO BE USED ONLY AS A NAVIGATIONAL AID AND MUST NOT BE USED FOR ANY PURPOSE REQUIRING PRECISE MEASUREMENT OF DIRECTION, DISTANCE, LOCATION, OR TOPOGRAPHY. WARNING: This product, its packaging, and its components contain chemicals known to the State of California to cause cancer, birth defects, or reproductive harm. This Notice is being provided in accordance with California's Proposition 65. If you have any questions or would like additional information, please refer to our web site at <http://www.garmin.com/prop65>. FCC Compliance The GPSMAP 2006/2010 complies with Part 15 of the FCC interference limits for Class B digital devices FOR HOME OR OFFICE USE.

These limits are designed to provide more reasonable protection against harmful interference in a residential installation, and are more stringent than "outdoor" requirements. Operation of this device is subject to the following conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



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This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures: Reorient or relocate the receiving antenna. Increase the separation between the equipment and the receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help. The GPS GPSMAP 2006/2010 does not contain any user-serviceable parts. Repairs should only be made by an authorized Garmin service center.

Unauthorized repairs or modifications could result in permanent damage to the equipment, and void your warranty and your authority to operate this device under Part 15 regulations. ii LIMITED WARRANTY This Garmin product is warranted to be free from defects in materials or workmanship for one year from the date of purchase. Within this period, Garmin will at its sole option, repair or replace any components that fail in normal use. Such repairs or replacement will be made at no charge to the customer for parts or labor, provided that the customer shall be responsible for any transportation cost. This warranty does not cover failures due to abuse, misuse, accident or unauthorized alteration or repairs.

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Introduction Warranty & Serial Number Serial Number Use this area to record the serial number (8-digit number located in the back of the unit) in case it is lost, stolen, needs service, or if you need to contact Technical Support. Be sure to keep your original sales receipt in a safe place or attach a photocopy inside the manual. Serial Number: The Garmin GPSMAP 2006/2010 has no user-serviceable parts. Should you ever encounter a problem with your unit, please take it to an authorized Garmin dealer for repairs. The GPSMAP 2006/2010 is fastened shut with screws. Any attempt to open the case to change or modify the unit in any way will void your warranty and may result in permanent damage to the equipment. Garmin International, Inc. 1200 East 151st Street Olathe, Kansas 66062, U.S.A.

Phone: 913/397.8200 USA Only: 800/800.1020 FAX: 913/397.0836 Garmin (Europe) Ltd. Unit 5, The Quadrangle, Abbey Park Industrial Estate Romsey, SO51 9DL, U.

K. Phone: 44/1794.519944 FAX: 44/1794.519222 iii Introduction Capabilities Designed for detailed electronic charting capability, the Garmin GPSMAP 2006/2010 are powerful navigation devices that can give you the navigation information you need: Precision Performance · The GPSMAP 2006/2010 features a high-contrast, ten-level gray, 640 x 480 LCD display with adjustable contrast and backlighting. · The GPSMAP 2006C/2010C features a high resolution, 256-color, 640 x 480 color LCD display with adjustable brightness.

· GPS 17: 12-channel parallel receiver tracks and uses up to 12 satellites for fast, accurate positioning. · DGPS; USCG and WAAS capable. · Fully gasketed, high-impact plastic alloy casration .....

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Warning Page is displayed. After reading the Warning Page, press the ENTER/MARK key to display the GPS Info on power-up window. (This window will be covered at the end of the Getting Started section.) Press the ENTER/MARK key to continue to the Map Page. Adjusting the Contrast and Backlight The 2006/2010 monochrome versions have adjustments for the Contrast and Backlighting, the color versions do not have a Contrast adjustment.

Adjusting the Contrast on Monochrome Units: 1. Press the POWER key to display the Contrast/Backlight Adjustment Window.

2. Press the ARROW KEYPAD left to decrease (lighten) the Contrast 3. Press the ARROW KEYPAD right to increase (darken) the Contrast. The Backlight can be turned off for operation in sunlight or increased in steps to produce the right lighting for the situation. Activating the Backlight: 1. Press the POWER key to activate the Backlight Adjustment Window. 2. To increase the backlighting, press the ARROW KEYPAD up. 3. To decrease the backlighting, press the ARROW KEYPAD down.

Contrast Adjustment on Monochrome Units Only TIP: After the Backlight Adjustment Window is activated, pressing the POWER key repeatedly will cycle through the backlight's three settings. 3 Getting Started Main Page Sequence First let's take a look at the Main Display Pages as they come from the factory. There are five pages: the Map Page, Sonar Page, Compass Page, Numbers Page, Highway Page and the Active Route Page. When the unit is turned on the first Main Page displayed is the Map Page. To scroll through the Main Display Pages: 1. Press the PAGE key. Each time the PAGE key is pressed the GPSMAP 2006/2010 will display the next Main Page. PAGE 2. The QUIT key acts like the PAGE key in reverse. Each time the QUIT key is pressed, the next Main Page will be displayed in a reverse sequence.

PAGE Map Page QUIT Sonar Page (If equipped with GSD 20) Compass Page Numbers Page Highway Page QUIT Active Route Page While learning the basic operation of the GPSMAP 2006/2010, let's put the unit into its Simulator Mode. The Simulator Mode is great for practicing with the unit. When the unit is in Simulator Mode, it will not accept GPS input, but will simulate satellite navigation. When in the Simulator Mode, the GPSMAP 2006/2010 CAN NOT be used for actual navigation. 4 NOTE: Do not try to navigate while using the Simulator Mode.

When the GPSMAP 2006/2010 is using the built-in simulator, the unit is not accepting GPS input. The unit will, however, simulate actual satellite navigation. Activating the Simulator Mode: 1. Press the MENU key. 2.

With the 'GPS Info' tab displayed, at the lower left of the display will be a SOFT KEY label 'Start Simulator', press the SOFT KEY that corresponds with this option. Choose 'No' to the retail demonstration and press ENTER/MARK. Press ENTER/MARK again to acknowledge the Running Simulator/Sonar Message. 3. The "Simulator Setup" window will be displayed. Getting Started Using the Page Sequence Main Built-in Simulator There are seven parameters that can be set for the simulator: "Current Time", "Current Date", "Track Control", "Track", "Speed", "Transducer" and "Set Position" (SOFT KEY). We need to change the "Current Time" and "Current Date" settings. There are two methods that you can use when entering alpha-numeric data, one is the ARROW KEYPAD and the other is the DATA ENTRY keys. We will use the ARROW KEYPAD for setting the Current Time and Current Date. See page 7 for instructions using the DATA ENTRY keys.

Current Time: 1. Using the ARROW KEYPAD, highlight the "Current Time" field and press the ENTER/MARK key. 2. Using the Right/Left function of the ARROW KEYPAD, place the highlight on the correct digit to begin entering the current time. 3. Using the Up/Down function of the ARROW KEYPAD, scroll through the list until the correct number is displayed.



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Press the ARROW KEYPAD to the right to highlight the next digit. 4. Continue this process until the correct "Current Time" is displayed then press the ENTER/MARK key to accept the new time. Select this SOFT KEY to start the Simulator Current Date: 1.

Using the ARROW KEYPAD, highlight the "Current Date" field and press the ENTER/MARK key. 2. Using the Right/Left function of the ARROW KEYPAD, place the highlight on the correct digit to begin entering the Current Date. 3. Using the Up/Down function of the ARROW KEYPAD, scroll through the list until the correct number is displayed.

Press the ARROW KEYPAD to the right to highlight the next digit. 4. When the month is highlighted the Up/Down function of the ARROW KEYPAD will scroll through a list of the months. Select the current month then move to the next digit. 5.

Continue entering the date. When finished, press the ENTER/MARK key to accept the new date. After the 'Start Simulator' SOFT KEY has been pressed, the "Simulator Setup" window will be displayed. Set the current time and date, and change the "Track Control" to 'User Track'. When finished press the QUIT key to begin simulation. 5 Getting Started Main Page Sequence Creating Waypoints The Simulator is now set up and ready to use! Let's review what we have covered so far: 1. The PAGE and QUIT key will cycle through the Main Pages, the PAGE key in a forward direction and the QUIT key in reverse. 2. To select a field or option use the Right/Left and Up/Down functions of the ARROW KEYPAD to control the cursor or highlight. 3.

To activate a field or option, place the highlight over the item and press ENTER/MARK. Name Field Symbol Field Comment Field (up to 20 characters) 4. Use the ARROW KEYPAD to scroll through alpha-numeric character lists when entering data. Creating Waypoints There will be many times that you will need to enter data in the GPSMAP 2006/2010, an example is naming a waypoint. We have already taken a brief look at entering data, but let's practice some more. Through this exercise we will create a new waypoint, name the waypoint, and assign a symbol to the waypoint. The term "Waypoint" may be new to you. You will find the term "Waypoint" is used frequently when talking about navigation. A "Waypoint" is a position stored in the unit's memory, that can be used for navigation. Waypoints are used for direct navigation or you can use several waypoints to build a route.

Creating, or "Marking" a waypoint in the 2006/2010 is really very easy. The unit has to be turned on and receiving at least three satellite signals or in Simulator Mode to mark a waypoint. Marking your present position as a Waypoint: 1. Press and hold the ENTER/MARK key (more than 1 second) until the 'New Waypoint' window is displayed. Distance and Direction from Captured Location Captured Location Depth Field When you hold the ENTER/MARK key, the GPSMAP 2006/2010 captures its current location and displays the 'New Waypoint' window.

You can see that the unit assigned a square as the default symbol and a number as the default name. The 'OK' button is now highlighted. Pressing the ENTER/MARK key will store the new waypoint using the default settings for the symbol and name, but let's change them for practice. Changing the symbol: 1. Using the ARROW KEYPAD, highlight the symbol field, then press the ENTER/MARK key.

This will display a list showing all of the available symbols. 2. Using the ARROW KEYPAD, highlight the 'Information' symbol and then press the ENTER/MARK key. Getting Started Main Page Sequence Entering Data We will enter a new waypoint name using the DATA ENTRY keys. Each DATA ENTRY key has multiple characters assigned to it. Pressing the key one time will select the first character, twice will select the second character, three times the third character, and four times will select the number assigned to the key. The only DATA ENTRY key that does not have four characters is the "+, -, 0" key. When entering data using the DATA ENTRY keys, press the key repeatedly until the correct character is selected, then pause briefly or press the next letter/number from a different key. The unit will automatically move the cursor to the next placeholder. Changing the name: 1.

Using the ARROW KEYPAD, highlight the Name field and then press the ENTER/MARK key. This will activate the field with the highlight on the first placeholder. 2. Press the ARROW KEYPAD to the left to clear the field. 3. We will name this waypoint "PRACTICE 1", press the DATA ENTRY key labeled "P, Q, R, 6" one time to set the letter "P". (If you are entering a letter/number from the same key, pause briefly and the unit will move to the next placeholder automatically. Otherwise, press the next letter/number from a different key.) 4. Press the same key three times to set the letter "R". Continue entering the name until "PRACTICE" is spelled. 5. To move the cursor to the right one space, press the ARROW KEYPAD to the right one time. 6. Finish the waypoint name by selecting the number "1".

7. Press the ENTER/MARK key to accept the new name. DATA ENTRY keys Directly below the Name field is a Comment Field. You can enter a comment of up to twenty digits about the waypoint in this field. For some more practice, enter "First Waypoint" in the comment field.

Entering a Comment: 1. Highlight the 'Comment' field and press the ENTER/MARK key. 2. Using the ARROW KEYPAD and DATA ENTRY keys, enter "FIRST WAYPOINT". 3. Press the ENTER/MARK key to accept the comment. 7 Select the 'Information' symbol, enter the name "Practice 1", and enter the comment "First Waypoint". Getting Started Main Page Keys Soft Sequence Now that you have finished modifying the waypoint you will need to save it to the Waypoint List. To Save the Waypoint: 1. Using the ARROW KEYPAD, highlight the 'OK' button at the bottom of the "New Waypoint" window.

2. Press the ENTER/MARK key to save the waypoint. Data Entry Tips: 1. Remember that you can use both the ARROW KEYPAD and DATA ENTRY keys to enter data. 2. When using the ARROW KEYPAD, if you press and hold the key, the unit will scroll through the alphanumeric list quickly. 3. When using the DATA ENTRY keys, press the key the appropriate number of times for the character that you want to display. The number is always last. Soft Keys The SOFT KEYS are located along the bottom of the unit under the display.

The SOFT KEYS are used to perform functions or display menus specific to the page that is displayed. The labels showing the function of each key are along the bottom of the display just above the corresponding SOFT KEY. To perform the listed function press the SOFT KEY. If the function in the label is "Grayed Out", that function is not currently available. Press the PAGE or QUIT key until the Map Page is displayed.



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To see how the SOFT KEYS work we will hide and show the Numbers' Fields located along the right side of the screen and display the Map Setup Menu. To Hide the Numbers: 1. Press the SOFT KEY located below 'Full Map' at the bottom of the display. The SOFT KEYS are located under the display on the front of the unit. The SOFT KEYS are used to change display options and show menus for the Main Page that is currently displayed.

Labels showing the function of the SOFT KEYS are located along the bottom of the display. To select the function, press the SOFT KEY located directly below it. You should now have a map that covers the entire display from left to right. Now let's redisplay the Numbers'. To Display the Numbers: 1. Press the SOFT KEY located below 'Set Up Page', then press the 'Show Data' SOFT KEY. 8 To Display the Map Setup Menu: 1. Press the SOFT KEY located below the 'Set Up Map' tag located at the bottom of the display. Getting Started Main Page Sequence Basic Navigation The Map Setup Page Menu will be displayed. The Map Setup Page will be discussed in detail in the Reference Section of this manual.

Now let's return to the Map Page. To Return to the Map Page: 1. Press the QUIT key. Remember that SOFT KEYS are used to quickly access options or functions for the Main Page that is displayed. The options or functions assigned to a SOFT KEY may be different for every page that is displayed. Basic Navigation The main use of a GPS is to be able to navigate to a known position. We have already created a waypoint using the ENTER/MARK key. Let's create another waypoint using the Map Pointer and then begin navigation to that point. Press the PAGE key until the Map Page is displayed. Press the IN key several times until the Map Scale located at the bottom right of the display reads "2 nm".

This will "Zoom In" on the map showing a smaller area in more detail. The ARROW KEYPAD controls the Map Pointer. The Map Pointer originates from the current GPS location, represented by the triangle in the middle of the display. To Display the Map Pointer: 1. Press the ARROW KEYPAD in any direction. Map Pointer Using the ARROW KEYPAD you can move the Map Pointer around the map. As you move the Map Pointer around the map, the direction and distance of the Map Pointer from the current GPS location is displayed in the information bar along the top of the display. Move the Map Pointer until it is approximately two miles from the current GPS location. To Create a Waypoint Using the Map Pointer: 1. With the Map Pointer at the desired location (not on a road or map feature), quickly press and release the ENTER/MARK key.

(Holding the ENTER/MARK key for more than one second will mark your present location) Getting Started Main Page Sequence Basic Navigation tion. See pg. 6) The "New Map Waypoint" Page is displayed. Change the waypoint name to "MAP 1", and assign the 'Information' symbol. Save the waypoint by highlighting the 'OK' button and pressing the ENTER/MARK key. Press the QUIT key to hide the Map Pointer and center the display on the current GPS location. Navigating to a waypoint When you begin navigation to a waypoint, the GPS sets a straight line course to that point. The unit will draw a Course Line on the display between the current GPS location and the destination waypoint. You may use any of the main pages for navigation. All of these pages are discussed in detail in the Reference section of this manual.

For this exercise, let's use the Highway Page. Going to a waypoint: 1. Press the NAV key. 2. Highlight 'Go To Point' and press the ENTER/MARK key. 3. Highlight 'Waypoints' and press the ENTER/MARK key. This will display the 'Select Waypoint' window. From this window you can select waypoints "By Name", or by "Nearest From Current Position". Select the tab 'By Name' using the ARROW KEYPAD.

4. Using the ARROW KEYPAD, scroll through the list until the waypoint "Map 1" is highlighted. Press the ENTER/MARK key to display the "Waypoint Review" Page. 5. With the 'Go To' button highlighted, press the ENTER/MARK key to begin navigation.

For a GPS to navigate it has to be moving. When the Compass Page or Highway Page is displayed and the unit is in the Simulator Mode, you can set a simulated speed by pressing the ARROW KEYPAD 'Up'. Each time the ARROW KEYPAD is pressed 'Up' the simulated speed will increase by ten knots. Pressing the ARROW KEYPAD 'Down', will decrease the simulated speed by the same amount. Press the PAGE key until the Compass Page is displayed. Along the right side of the display there are four data fields, the top field is the Speed. Press the ARROW KEYPAD 'Up' one time to set a speed of 10 knots. Using the Compass Page 10 Located on the Compass Page are the Bearing Pointer, and a Compass Ring. When you are moving, the Bearing Pointer points toward your destination, while the Compass Ring reflects the direction that you are traveling. In short, when you are headed directly toward your destination, the Bearing Pointer will point toward the top of the display, aligned with the vertical line displayed in the Compass Ring. If you are not heading toward your destination, the Bearing Pointer will turn, continuing to point toward your destination. To head toward your destination, turn until the Bearing Pointer is realigned with the vertical line in the Compass Ring. The GPSMAP 2006/2010 will allow you to simulate a turn so you can see what will happen. To simulate a turn: 1. Press the ARROW KEYPAD to the right until the Compass Ring has changed about 40°.

Getting Started Compass Page Main Page Sequence The Bearing Pointer should now be pointing to the left. This is exactly what will happen during actual navigation. To get back on course, press the ARROW KEYPAD to the left, simulating a left turn. When the Bearing Pointer is aligned with the vertical line in the Compass Ring, you are headed directly toward the destination waypoint. Congratulations you should now have enough experience to use the basic functions of your GPSMAP 2006/2010. Enjoy your new GPSMAP 2006/2010 and thank you for choosing Garmin. Compass Page -- Heading directly toward the destination waypoint. When the Bearing Pointer is aligned with the vertical line in the Compass Ring then you are on a direct course to your destination.

Compass Page -- showing off course about 40°. Turn left until the Bearing Pointer is aligned with the vertical line to get back on course.

11 Getting Started Initializing the Receiver Main Page Sequence Initializing the Receiver The first time you power up your new GPSMAP 2006/2010 and GPS 17 receiver, the receiver must be given an opportunity to collect satellite data and establish its present position. To ensure proper initialization, the GPS 17 is shipped from the factory in AutoLocate mode, which allows the receiver to "find itself" anywhere in the world.



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To speed up the initialization process, we recommend using the graphic initialization process, which usually provides a position fix within a few minutes. If you know your approximate coordinates, you may also enter the position as text. Before you initialize, make sure the GPSMAP 2006/2010 unit and GPS 17 antenna have been correctly installed on your vessel according to the instructions in the 2006/2010 Installation Guide.

The antenna needs a clear and unobstructed view of the sky to receive satellite signals. To turn the GPSMAP 2006/2010 on: 1. Press and hold the POWER key until the display comes on, then release the POWER key. Warning page A warning page appears, asking you to read and acknowledge important information regarding the proper use of the unit. To acknowledge the warning: 1.

After reading the warning, press the ENTER/MARK key if you agree. Next you will see the GPS Info window which provides a visual reference of satellite acquisition, GPS receiver status, and accuracy. The status information will give you an idea of what the GPS receiver is doing at any given moment. To graphically initialize the GPSMAP 2006/2010: 1. From the GPS Info window, press the 'Set Position' SOFT KEY. 2. The Initialize Position Page will appear, prompting you to select your approximate location with the map cursor. Use the ARROW KEYPAD to move the map cursor and point to your approximate location within 200 miles. If you have difficulty identifying your position, press and release the IN key to zoom in to view the map at the next lower scale. 3.

Once you have determined your approximate location on the map, press the ENTER/MARK key. 12 Point to your approximate location and press ENTER/MARK. 4. If you wish to enter your approximate location as text, from the Initialize Position Page, press the 'Enter As Text' SOFT KEY then use the DATA ENTRY keys to enter the coordinates and press ENTER/MARK when done. Getting Started Initializing the Receiver Main Page Sequence This does not "calibrate" way, helps to speed the initial satellite acquisition. If the unit in any "Ready but rather (3D)" during this process, it is not unit displays (2D) or necessary to initialize the unit. The GPSMAP 2006/2010 will now begin searching for the appropriate satellites for your region and should acquire a fix within a few minutes. When viewing the GPS Info, a signal strength bar for each satellite in view will appear on the bottom of the page, with the appropriate satellite number under each bar. The progress of satellite acquisition is shown in three stages: · 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 (green on color models)-- the receiver has collected the necessary data and the satellite(s) are ready for use. Once the receiver has collected information from at least three satellites, the top of the screen displays either "Ready (2D or 3D)", the GPS Info window automatically disappears and the display switches to the Map Page showing your current position. The GPSMAP 2006/2010 is now ready for use! The GPS Info may also be accessed from the Main Menu once the unit is ready to navigate. For more detailed information on the GPS Info tab and its related options, see pages 56-59. The GPS Info on powerup window may also be turned off in order to go directly to the first Main Page using the Pages tab options (see pg.

55). Since the can receive a non-Garmin is possible 2006/2010 "Ready (2D) position information from satellite data. NMEA source, it to have a or (3D)" status with no A satellite's strength bars will turn black (or green) when it's ready for use. The GPS Info screen and additional options may also be accessed from the Main Menu after the unit has acquired satellites. 13 Reference Map Page Map Page The GPSMAP 2006/2010's 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 boat on a digital chart, complete with geographic names, map items, nav aids, and a host of other chart features. Additional information on BlueChart data may be found in the "BlueChart User's Guide". You may also display sonar information (if equipped). It also plots your track and displays any routes and waypoints you create. An on-screen cursor lets you pan and scroll to other map areas, determine the distance and bearing to a position, and perform various route and waypoint functions. Data Fields Land Geographic Name Map Item When the cursor is active, an additional data window appears above the map to indicate the position, any identifying text, range, and bearing to the cursor or a selected waypoint or map item. The map scale displays at the bottom right of the map. The IN and OUT keys, combined with the ARROW KEYPAD, let you select zoom ranges and move the cursor. Two basic map operating modes, position mode and cursor 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 cursor mode pans the cartography to keep the cursor within the display area.

The GPSMAP 2006/2010 system (by default) powers up in the position mode, with your vessel centered on the map display. When sufficient map coverage is not available to keep the boat centered, the boat icon will move toward the edge of the display. Water Boat Icon Nav aids Map Scale Map Page shown using optional BlueChart data. When the ARROW KEYPAD is pressed, the GPSMAP 2006/2010 enters cursor mode. In cursor mode: · The cursor can be moved over the map display using the ARROW KEYPAD. · Whenever the cursor reaches the edge of the display, the map scrolls forward under the cursor. Keep in mind that the boat icon moves with the map scrolling and may go off the display screen (you may not be able to see your present position). · When the cursor is stationary, a fixed coordinate position will appear in the position field. Note that the distance and bearing changes as the boat's position changes. ·

Whenever you zoom in cursor mode, the cursor is centered on screen.

· To return to position mode, press the QUIT key. 14 When the cursor reaches the edge of the map, the unit may pause as it loads new map data. Reference Map Page Cursor Using the Cursor The cursor allows you to pan away from your present position and scroll to other map areas around the world (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. You will see an hourglass symbol by the pointer while the unit is busy drawing new map detail.



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To move the cursor: 1. Press the ARROW KEYPAD to move the cursor in an up, down, left, or right direction. As you move the cursor, the distance and bearing from your present position to the cursor is displayed in the data window, with the cursor's position coordinates. Keep in mind that when the cursor is stationary, the distance and bearing from your present position changes as your boat moves. The cursor may also be used to 'snap' to on-screen waypoints and map items, allowing you to review a selected position directly from the map display.

To select an on-screen waypoint or map item with the cursor: 1. Use the ARROW KEYPAD to move the cursor to the desired 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 will become highlighted on screen, with the name and position displayed. Press ENTER/MARK to show details of the map item. When using BlueChart or MapSource data, additional information tabs will appear. Use the ARROW KEYPAD to highlight the individual tabs to display the information and additional options. Use the SOFT KEY options to Scroll Up, Down, Left or Right when necessary. Move the cursor over an item on the map to highlight it. Additional information tabs.

To eliminate the cursor and re-center your position on-screen: 1. Press the QUIT key. Option buttons The cursor may also be used to create new waypoints directly from the map. To create a waypoint with the cursor: 1. Use the ARROW KEYPAD to move the cursor to the desired map position. (continued) Pressing ENTER/MARK while highlighting a map item will bring up additional details and options. 15 Reference Map Page Zooming and Options 2. Press the ENTER/MARK key and the 'New Map Waypoint' window will appear. If the cursor is on a map item, you will get a new window with details about the item when ENTER/MARK is pressed. Press ENTER/MARK again on the highlighted 'Create Waypoint' option.

3. Highlight 'OK' and press ENTER/MARK to confirm the new waypoint using the default three-digit name and symbol. To change any of the available data fields, see page 27. Selecting Map Scales The map display has 28 available range scales from 20 ft. to 800 mi.

(5 m to 1200 km). The map scale is controlled by the IN and OUT keys, with the current scale displayed at the bottom right of the data window. The scale value represents the distance from one end of the scale bar to the other. To select a map scale: 1. Press the OUT key to zoom out and the IN key to zoom in.

Creating New Map Waypoint Using Built-In Basemap The GPSMAP 2006/2010'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 2006/2010 will display cartography as long as there is chart information available for the range you've selected. Map coverage will conform to the following conditions: · When the selected zoom range is covered by either the internal database, BlueChart, or MapSource data, cartography will be displayed. · When the selected zoom range is covered by both the internal database and BlueChart/MapSource data, cartography will be displayed using the data with the best resolution. · When the selected zoom range exceeds the resolution of the data in use, overzoom cartography will be displayed and an 'overzoom' warning will appear below the scale field. Map Page Options Many features of the GPSMAP 2006/2010 are SOFT KEY driven. Each of the main pages have SOFT KEY options, allowing you to custom tailor the corresponding page to your preferences and/or select special features that specifically relate to that page. The data window, located at the right of the main pages (except Active Route Page) 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 changed to display additional data fields and change the actual size of the data displayed.

Using BlueChart/MapSource Data Overzoom, no additional data 16 The GPSMAP 2006/2010's Map Page provides access to functions and features relating to the Map Page and the layout options. The available SOFT KEY options are Measure, Full Map/Show Data, Set Up Page, Set Up Map, and Declutter On/Off. Following are details on using each of these options. · Measure -- allows you to measure the bearing and distance between any two points on the map display. To measure the BRG/DIS between two points: 1. Press the 'Measure Distance' SOFT KEY. An on-screen pointer appears on the map display at your present position with 'ENT REF' below it. 2. Move the cursor to the desired reference point (the point that you want to measure from) and press ENTER/MARK. 3.

Move the cursor to the point that you want to measure to. The bearing and distance from the reference point and cursor coordinates will be displayed in the data window at the top of the display. Press the QUIT key to finish. Distance and Bearing Cursor Coordinates Map Cursor Reference Map Page Options ·

Full Map/Show Data -- toggles between a Map Page without or with data fields on the map display. To maximize the map/show data fields: 1. Press the 'Full Map' SOFT KEY. The Map Page will now be maximized with no data fields. 2. To show the data fields again, press the 'Show Data' SOFT KEY. Full screen map shown · Set Up Page -- allows you to configure the map layout to your preferences, including changing the type of data displayed in the data fields, showing sonar information and sizing a split display.

· Change Nmbrs (Numbers) -- allows you to specify the type of data displayed in each number field used on the map display. This option is available from any of the main pages. To change a number field: 1. Press the 'Change Nmbrs' SOFT KEY. 2. Move the field highlight to the data field you want to change and press ENTER/MARK. 3. Move up or down on the list using the ARROW KEYPAD to highlight the data you want to display, and press ENTER/MARK. To exit, press QUIT or the 'Quit' SOFT KEY. Highlight the field you wish to change.

17 Reference Map Page Options The following data options are available for data fields on the main pages: Choose the type of data you wish to display. 18 · BEARING Compass direction from your position to destination · COMPASS Compass ribbon · COURSE Desired Track · DEPTH Depth below transducer (if receiving proper sonar data from other device) · DISTANCE TO DEST Distance to final waypoint · DISTANCE TO NEXT Distance to next waypoint · ELEVATION Elevation above/below MSL (Mean Sea Level) · ETA AT DEST Estimated Time of Arrival to final waypoint · ETA AT NEXT Estimated Time of Arrival to next waypoint · GPS ACCURACY Current accuracy of GPS receiver · HIGHWAY Smaller version of the Highway Page · MAX SPEED Fastest speed the unit has traveled · MOVING AVG SPEED Average moving speed · MOVING TIME Time unit has been moving for a trip · OFF COURSE Distance from desired track · POINTER Arrow points to your destination · POSITION Current position coordinates · SONAR\* Compressed view of sonar data · SPEED Speed over ground · TIME OF DAY Current time · TIME TO DEST Time to final waypoint · TIME TO NEXT Time to next waypoint · TO COURSE Distance to desired track · TOTAL AVG SPEED Total average speed · TOTAL TRIP TIME Total travel time of trip, stopped and moving · TRACK Current compass direction of travel · TRIP ODOMETER Trip Odometer · TURN Directional amount of turn needed to match bearing · VELOCITY MADE GOOD Velocity Made Good to destination · VOLTAGE Current voltage reading being received by unit · WATER SPEED\* Speed through the water · WATER TEMPERATURE\* Water temperature · WATER TEMP.



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LOG\* Timeline graph of the transducer's temperature reading. \* If receiving proper sonar data from other device, such as a GSD 20 Sounder Module)  
NOTE: COMPASS, HIGHWAY and POSITION will only be available on medium and large sized data fields. Reference Map Page Options You may also choose to 'split' the default numbers to 4 smaller fields for more data or you may 'merge' the smaller fields back to their original size. All the Main Pages (except the Numbers and Active Route Pages) will have 4 medium sized fields, which may be split to a total of 16 small fields. The Numbers Page will display 4 large fields, which may be split to a total of 16 medium fields. This option is available from any of the Main Pages, except the Active Route Page. To Split or Merge the Numbers fields: 1. While in 'Change Nmbrs' mode, highlight the data field you want to change and press the 'Split Number' or 'Merge Numbers' SOFT KEY.

You will now see four new data fields or one large field. You may also use the IN or OUT keys to split and merge the fields. Press QUIT when done or press the 'Quit' SOFT KEY. 2. To return to the factory configuration, press the 'Defaults' SOFT KEY while in 'Change Nmbrs mode.

Press QUIT when done or press the 'Quit' SOFT KEY. Split, small fields Default, medium fields Single, large data field · Hide/Show Nmbrs (Numbers) -- toggles between a Map Page without or with data fields on the map display. · Hide/Show Sonar -- toggles between a Map Page without or with sonar information on the map display. · Size Split-- enables width adjustment of the Map Page sonar split screen. You may adjust the size of the map/sonar split window anywhere from 1/4 to 3/4 width from the right half of the Map Page.

You must be showing sonar information to use this option. To resize the Map Page sonar split screen: 1. From the Map Page split screen, press the 'Set Up Page' then 'Size Split' SOFT KEYS. 2. Move the horizontal double-arrow LEFT or RIGHT using the ARROW KEYPAD until the desired vertical width line shows, then press ENTER/MARK or the 'Accept Resize' SOFT KEY. You may also press the '50/50' SOFT KEY to equally proportion the map and sonar windows. 3. If you wish to cancel this operation, press QUIT or press the 'Cancel Resize' SOFT KEY. Move double arrow left or right to size the split screen.

19 Reference Map Page Options · Set Up Map-- allows you to configure the map display to your preferences, including map detail, map orientation, automatic zoom, and various map items and points.

The map set up option uses a 'file tab' feature, making it easier to organize the various settings for ease of use. The following table lists the file tabs and the settings available under each tab: General Detail, Orientation, AutoZoom, Map Colors Source Basemap, Data Card Maps Waypoints Waypoints, Active Route Points Spot Soundings, Tide Stations, Services Nav aids Symbol Set, Symbol Size, Text Size, Light Sectors Nav Line Heading Line, Bearing Line, Course Line Track Saved Tracks, Track Log Other Accuracy Circle, Lat/Lon Grid, Map Outlines To change a map setup feature: 1. Press the 'Set Up Map' SOFT KEY. 2. Move LEFT or RIGHT on the ARROW KEYPAD to highlight the desired tab, then UP or DOWN on the ARROW KEYPAD to highlight the setting you want to change and press ENTER/MARK. 3. Move UP or DOWN on the ARROW KEYPAD to highlight to the desired setting and press ENTER/MARK. To exit, press QUIT. General Tab Detail-- Most, More, Normal, Less, Least: controls how much map detail you will see. This setting only applies to any map feature set to "Auto".

Those features which have a specified scale or turned "Off" are unaffected by this setting. Orientation-- North Up-- fixes the top of the map display to a north heading; Track Up-- fixes the top of the map display to the current track heading; Course Up-- fixes the map so the direction of navigation is always "up" and turns the navigation leg line vertical on the screen. AutoZoom-- On/Off: when "On" the map will automatically adjust the map scale to a lower scale as you approach you destination point. Map Colors-- Water /Land Mode or For Shade/Sunlight (color models only): when in "Water Mode", land will appear as a darker color and water will be lighter. In "Land Mode", land will appear as a lighter color and water will be darker.

If using optional BlueChart data, it is recommended to use 'Water Mode'. For color models, "For Shade" is designed to match the color of physical marine charts as closely as possible. Main Menu--Map Configuration Tab General Tab 20 sible. Use this setting when in shaded environments. "For Sunlight" displays more vibrant colors for use in sunny environments. BlueChart data may be used with either color model mode.

Source Tab Basemap-- On/Off: turns the built in base map on or off. Data Card Maps-- On/Off: turns all optional BlueChart/MapSource data loaded on the data card on or off. Waypoints Tab-- Waypoints/Active Route Text-- None, Small, Medium, and Large: controls the screen size of the name. Zoom-- Auto, Off, 120 ft.-800 mi.: sets the maximum scale at which the feature should appear on the screen. Some types of data will only show up to certain zoom scales. Points Tab-- Spot Soundings/Tide Stations/ Services Text-- None (except Spot Soundings), Small, Medium, and Large: controls the screen size of the name. Zoom-- Auto, Off, 120 ft.-800 mi.

: sets the maximum scale at which the feature should appear on the screen. Some types of data will only show up to certain zoom scales. (Spot Soundings On/Off only) Nav aids Tab-- Spot Soundings/Tide Stations/ Services Symbol Set-- Auto, Garmin, NOAA, International: controls the desired nav aid symbol set. Auto - BlueChart maps are drawn using symbols similar to the NOAA/NIMA standard. Non BlueChart maps are drawn using traditional Garmin symbols. Garmin - All maps are drawn using traditional Garmin symbols. NOAA - All maps are drawn using a symbol set similar to NOAA/NIMA. International - All maps are drawn using a symbol set similar to the IALA symbol set. Symbol Size-- Small, Medium, and Large: controls the screen size of the nav aid symbols. Text Size-- Small, Medium, and Large: controls the screen size of the name.

Light Sectors-- Off, Auto, On: controls the drawing light sectors on the map. Color units indicate the actual color of each sector using the color of the light. Monochrome units draw white and yellow sectors as white, and draw blue, red & green sectors as dark gray. Off-- No light sectors are ever drawn Auto-- Light sectors appear when you point to them with the map cursor. On-- Light sectors are drawn for all lights that have them.

Reference Map Page Options Source Tab Waypoints Tab Points Tab Nav aids Tab 21 Reference Main Page Sequence Nav Line Tab Nav Line Tab-- Heading Line-- On/Off: draws an extension from the end of the boat icon in the direction of travel.



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*Bearing Line-- On/Off: toggles the black/white line which points to the current navigation point. Course Line-- Auto, Off, 120 ft.-800 mi.: sets the maximum zoom scale at which the desired course line should appear on the screen.*

*Track Tab-- Saved Tracks/Track Log Zoom-- Auto, Off, 120 ft.-800 mi.: sets the maximum scale at which the feature should appear on the screen. Some types of data will only show up to certain zoom scales. Other Tab-- Accuracy Circle-- On/Off: toggles the circle "On" and "Off". The circle represents the approximate accuracy of the unit based on EPE, DOP, and basemap quality. Your position will be within the circle. Lat/Lon Grid-- Text-- None, Small, Medium, and Large: controls the screen size of the name. Zoom-- Auto, Off, 120 ft.-800 mi.*

*sets the maximum scale at which the feature should appear on the screen. Map Outlines-- On/Off: toggles the coverage boxes for BlueChart/MapSource data "On" and "Off". Map Setup Soft Key Options From the map setup page, you can access the following menu options: · Card Maps-- shows a list of the optional BlueChart/MapSource data loaded on the data card. Each area is described by name and may be deselected if you do not wish to display the data on the Map Page. · Map Defaults-- restores settings back to factory settings for all tabs. · Defaults-- restores settings back to factory settings for only the highlighted tab.*

*To display the Card Map Information Page: 1. Press the 'Card Maps' SOFT KEY. 2. Use the ARROW KEYPAD to scroll through the list of maps. 3. To select/deselect a map, highlight the check box to the left of the name of the desired map. Press ENTER/ MARK or the On/Off SOFT KEY to select/deselect the map. The map is selected and is displayed on the Map Page when a "" appears in the box adjacent to that map. You may also choose to Show All' or 'Show None' by pressing the corresponding SOFT KEY.*

*(cont.) Track Tab Other Tab 22 4. To display detailed information and notes for each area, highlight the desired name and press ENTER/ MARK. To view the notes for that area, choose 'Show Notes'. To scroll through the notes, you may either, highlight the notes, press ENTER/MARK and use the ARROW KEYPAD to scroll, up, down, left, and right or press the desired SOFT KEY scroll option.*

*Press QUIT to exit. Reference Main Page Sequence To restore defaults for map settings: 1. From the Map tab in the Main Menu, highlight the tab you want to restore settings to and press the 'Defaults' (or 'Map Defaults' if you want all tabs restored) SOFT KEY. · Declutter On/Off? -- toggles between showing/not showing spot sounds and map outlines for easier viewing. These settings are automatically changed in the Map Setup. Press the 'Declutter On/Off?' SOFT KEY to toggle this feature. Card Map Information Page 23 Reference Sonar Page Sonar Page The Sonar Page is where your GPSMAP 2006/2010 becomes a powerful fishfinder. The top left of the screen contains information fields, while the Adjustments selection (see pg. 29) above the fields allows direct access to the settings most commonly changed while using the Sonar Page. The middle of the page contains a right-to-left moving sonar image of the water beneath your boat.*

*(Note: Items appear as they pass under your transducer. Those items on the right side of the screen are closer to you than those on the left.) Along the right side of the screen is an adjustable scale which reflects the depth of the area being displayed. You may also show a sonar flasher and color bar on the right side (see pg. 27). If the unit does not detect a sonar device (GSD 20) attached to the unit, a "Sonar Turned Off" message will appear. Data Fields Simulated Fish (with Fish Flasher Symbols On) Whiteline Thermocline Bottom Depth Scale The sonar display may also be set to show a split screen view of a zoomed portion of the sonar, bottom lock (display scaled from the bottom up), or a combination of these options (see pg. 26). For example, you may choose to show dual frequency at a 2X zoom (Dual 2X) on one half and normal range dual frequency (Dual) returns on the other half. The current display mode will be displayed at the bottom of each sonar display.*

*On color models, sonar returns will show as red (strongest), then oranges (strong), yellows (medium), greens (weaker) and blues (weakest). On grayscale models, stronger returns will appear darker and weaker returns lighter. The 'Fish Symbols' option (see page 26) allows you to view the actual sonar data, a fish symbol or a combination of both. 'Fish Symbols' will appear as green. When the unit is set to 'Dual' (see page 27), the appearance of the fish symbols (and simulated fish returns) will change.*

*Fish symbols from the narrower beam (200kHz) will be solid (or narrow returns), but the returns from the wider beam (50kHz) will be hollow (or wide returns). Simulated fish icons are displayed in three different sizes. Actual fish returns may not always appear as perfect arches, due to the speed, fish orientation, and/or other conditions. More on understanding the sonar may be found on pages 88-91. Sonar Page Options The GPSMAP 2006/2010's Sonar Page features SOFT KEYS that provide access to additional functions, set up and layout/data field options.*

*To select a SOFT KEY option: 1. Press the SOFT KEY below the desired option. 24 The following options are available: · Pointer On/Off-- allows you to reference sonar items and mark underwater waypoints. This makes it easier to find and use an object such as a stump for a future fishing location. When using this feature, the Sonar Page pauses. The pointer does not move off the paused display and cannot show an area that has scrolled off the screen. The depth continues to update while the display is paused, but the unit does not show any new sonar data until the standard Sonar Page is resumed. You may see a discontinuity from where the sonar information stops to where it starts again. To mark an underwater waypoint: 1. From the Sonar Page, press the 'Pointer On' SOFT KEY to pause the screen movement.*

*2. Use the ARROW KEYPAD to move the cursor onto the target (underwater drop off, stump, etc.) you want to mark. A data field will appear with the cursor's depth, coordinates, and bearing and distance from your current position. 3. Press ENTER/MARK. The New Waypoint page will appear with the waypoint's coordinates, default threedigit name, and pointer depth automatically filled in. 4. To change the name, symbol or depth, highlight the appropriate field and press ENTER/MARK. Make your changes and press ENTER/MARK when done.*

*5. When done, move the field highlight back to the 'OK' prompt and press ENTER/MARK. 6. To return to the standard Sonar Page, press QUIT or press the 'Pointer Off' SOFT KEY. Reference Sonar Page Options Pointer Marking an underwater waypoint · Show/Hide Nmbrs (Numbers)-- toggles showing/hiding the data fields on the sonar display.*



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