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You can read the recommendations in the user guide, the technical guide or the installation guide for GARMIN GPS 72H. You'll find the answers to all your questions on the GARMIN GPS 72H in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual GARMIN GPS 72H
User guide GARMIN GPS 72H
Operating instructions GARMIN GPS 72H
Instructions for use GARMIN GPS 72H
Instruction manual GARMIN GPS 72H



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Manual abstract:

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or its subsidiaries, registered in the USA and other countries. These trademarks may not be used without the express permission of Garmin. September 2009 Part Number 190-01119-00 Rev. B Printed in Taiwan Introduction See the Important Safety and Product Information guide in the product box for product warnings and other important information. Tips and Shortcuts Manual Conventions · To return to the Main Menu from any page, press the MENU button twice.

· To extend battery life, turn off the GPS when not using the device for navigation. For more information, see page 41. When you are instructed to "press" something, press the buttons on the device. Use the rocker to select something in a list, and then press ENTER. The small arrows (>) used in the text indicate that you should select a series of items in order, for example, "Press PAGE > ENTER > select TRACKS." Product Registration Help us better support you by completing our online registration. Connect to our Web site at <http://my.garmin.com>. Keep the original sales receipt, or a photocopy, in a safe place.

GPS 72H Owner's Manual Introduction Contact Garmin Contact Garmin Product Support if you have any questions while using your GPS 72H. In the USA, go to www.garmin.com/support, or contact Garmin USA by phone at (913) 397.8200 or (800) 800.1020. In the UK, contact Garmin (Europe) Ltd. by phone at 0808 2380000. In Europe, go to www.garmin.com.

com /support and click Contact Support for in-country support information, or contact Garmin (Europe) Ltd. by phone at +44 (0) 870.8501241. Serial Number The serial number is located on the back of the device in the lower right corner. Optional Accessories For a list of available accessories, go to <http://buy.garmin.com>.

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To install the batteries: 1. Turn the D-ring 1/4 turn counterclockwise, and pull the cover loose. D-ring 2. Insert the batteries, observing polarity. 3. Replace the battery cover. Long-Term Battery Storage Remove the batteries when you do not plan to use the GPS 72H for several months. Stored data is not lost when the batteries are removed. Battery compartment Locking pin slot 2 GPS 72H Owner's Manual Getting Started ZOOM IN GO TO/ MOB Power QUIT Rocker ZOOM OUT PAGE MENU ENTER/ MARK Buttons QUIT--press to return to the previous page and cycle through the main pages in reverse order. Power--press and hold to turn the device on or off.

Press and release to adjust the backlight. GO TO/MOB--press to begin or stop navigation to a waypoint. Press and hold (man overboard function) to store the current location and begin navigation to that point. ZOOM IN--press to zoom the map in. GPS 72H Owner's Manual ZOOM OUT--press to zoom the map out. PAGE--press to cycle through the main pages. MENU--press and release to view the menu for the current page. Press twice to view the Main Menu. ENTER/MARK--press to select a menu item, data field, or option. Press and hold to save your current location.

Rocker--rock up, down, right, and left to move through page items. Getting Started Turning the Device On and Off To edit text using the rocker: 1. Press to turn the device on. 2. Press and hold to turn the device off. NOTE: The following example shows how to edit a waypoint name on the Mark Waypoint page. 1. Highlight the name field using the rocker, and press ENTER. 2. Press the rocker left to clear the name field.

3. Press the rocker up to scroll through the list to find numbers or letters. 4. Press the rocker right to enter the next letter. 5.

Press ENTER when completed. Using the Rocker Use the rocker to: · Move through lists. · Highlight fields, on-screen buttons, or icons. · Move the map pointer. · Add or edit text and numbers.

GPS 72H Owner's Manual Getting Started 1. Place the loop of the wrist strap through the slot opening at the bottom of the device. 2. Route the strap through the loop, and pull it tight. Attaching the Wrist Strap The bars on the GPS Information Page indicate the satellite strength. When the bars are filled in, the GPS 72H has acquired satellite signals. For more information, see page 19.



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1. Press and quickly release . 2.

Use the rocker to adjust the brightness and contrast. Brightness Contrast Adjusting the Backlight 1. Go outdoors to an open area, away from tall buildings and trees. 2. Turn on the device. Acquiring satellite signals can take a few minutes. Acquiring GPS Satellite Signals To adjust the backlight time: 1. From the Main Menu, select Setup > Backlight Timeout. 2. Select the amount of time the backlight stays on, and press ENTER.

GPS 72H Owner's Manual Using the GPS 72H Using the GPS 72H Creating and Using Waypoints Waypoint symbol Waypoint name Mark Waypoint Page To mark your current location: 1. Press and hold MARK until the Mark Waypoint page appears. 2. A default three-digit name and symbol are assigned to the new waypoint. To accept the waypoint with the default information, select OK.

To change the waypoint information, select the appropriate field. After making changes, select OK. Waypoints are locations or landmarks you record and store in your GPS 72H. You can add waypoints to routes, and you can navigate directly to a selected waypoint. You can create waypoints using three methods.

You can mark your current location, create a waypoint on the map, or enter coordinates for a waypoint manually. Marking Your Current Location You must have a valid position fix to mark your current location. GPS 72H Owner's Manual Using the GPS 72H 1. On the map page, use the rocker to move the map pointer to the map area you want to mark. 2. Press ENTER to capture the map pointer location and open the new Waypoint page. 3. Select OK. Creating Waypoints Using the Map Editing Waypoints You can edit waypoints to change the symbol, name, note, location, and the elevation. You can also select the option to show the waypoint name on the map.

To edit a waypoint: 1. Press MENU twice > select Points > Waypoints. 2. Select the waypoint you want to edit. 3. Use the rocker and the ENTER button to make changes. 4. Select OK. 1. Press and hold ENTER to display the Mark Waypoint page.

2. Select the Location field. 3. Using the rocker, enter the new location coordinates. 4.

Press ENTER. Creating Waypoints using existing Coordinates GPS 72H Owner's Manual 7 Using the GPS 72H To delete a waypoint: 1. From the Waypoints page, select the waypoint you want to delete. 2. Press MENU > select Delete Waypoint > Yes.

NOTE: When you delete a waypoint, you cannot recover it from the GPS 72H. Projecting a Waypoint Create a new waypoint by projecting the distance and bearing from one location to a new location. To project a waypoint: 1. Press MENU twice > select Points > Waypoints. 2. Select the waypoint you want to project. The Waypoint Information page opens. 3. Press MENU > select Project Location to open the Project Location page. 4.

Enter the distance and bearing to the projected waypoint in the appropriate fields. 5. Select Save. GPS 72H Owner's Manual Using the GPS 72H Using GO TO Press GO TO at any time to quickly find a waypoint. 1. Press GO TO. 2. Select Waypoint. 3. Select the desired waypoint.

Using Tracks The tracks feature creates an electronic breadcrumb trail, or "track log," on the Map page as you travel. The track log contains information about points along its path. The track log starts recording as soon as the GPS 72H acquires satellite signals. The percentage of memory used by the current track log appears at the top of the Tracks page. To clear the track log: 1.

Press MENU twice to open the Main Menu. 2. Select Tracks. 3. Select Clear > Yes.

Man Overboard In the event of a person falling off your boat, press and hold MOB to store your current location. Select Yes to begin navigating to that point.

For more information on Marine navigation, see pages 3439. GPS 72H Owner's Manual Using the GPS 72H To set up a track log: 1. Press MENU twice > select Tracks. 2. Select MENU > Setup Track Log. Wrap When Full--the track log records over the oldest data with new data. Record Method--select a track recording method. Select Distance, Time, or Auto.

If your recsymbols are also shown on the map. NOTE: Press OUT to zoom out or IN to zoom in. To view the map with north up: 1. From the Map page, press MENU. 2. Select Setup Map > General > Orientation > North Up. The Main Pages To change a data field: 1. Press MENU > select Change Data Fields. The first data field is selected. 2.

Press ENTER to see the list of data fields. For data field descriptions, see pages 3033. 3. Select a data field. 4.

Use the rocker and the ENTER button to change additional data fields. Map Page Options Full Screen Map--hides the data fields and expands the map to include the entire screen. Measure Distance--allows you to measure the distance between two points. For more information, see page 14. Setup Page Layout--allows you to select the number of data fields rows and the size of text used in the fields.

Change Data Fields--allows you to select the type of data that you want to display in the data fields. For data field descriptions, see pages 3033. Setup Map--contains the Map page setup features, which are arranged on a tab menu. General Tab--allows you to customize the detail level, the orientation, and zoom level of the map. Map Orientation North Up orients the map like a paper map. Track Up orients the map in the direction of travel. 1. Press MENU > select Setup Map > General. 3. Select Orientation.

4. Use the rocker and the ENTER button to change map orientation. GPS 72H Owner's Manual The Main Pages Map Tab--you can turn on or off MapSource®, customize latitude and longitude grid distance, and customize the grid labels. Waypoint Tab--size and zoom setting for Waypoints and Active Route Waypoints. Point Tab--size and zoom setting for NavAids, Points of Interest, Geo, and Exit option. Line Tab--Zoom scale settings for Track Log, Saved Tracks, Active Route, and the Off/On setting for the Bearing Line. City Tab--Text and Zoom scale settings for Large City, Medium City, Small City and Small Town. Other Tab--On/Off settings for the Accuracy Circle and Heading Line. To restore Map page defaults, select MENU > Setup Map > MENU > Restore Defaults. Compass Page The Compass page guides you to your destination with a graphic compass display and a bearing or course pointer. Vertical Line Bearing pointer Compass Page The rotating compass ring indicates the direction you are heading. The bearing and course pointers indicate the direction (bearing to or course of travel) to your destination, relative to your current heading direction. Choose a bearing pointer or course pointer for guidance. GPS 72H Owner's Manual The Main Pages Compass Page Options Data Fields--selects the number of data fields that appear on the Compass page. Change Data Fields--selects the type of data you want to show in the data fields.



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Highway Page Options Setup Page Layout--allows you to select the text size and the number of data fields rows. Change Data Fields--allows you to select the type of data you want to appear in the data fields. Setup Highway--the Highway Setup features. · Setup Highway--the Line Tab contains the On/Off settings for Active Leg, Active Route, Track Log and Saved Tracks. Active Leg--when set to Off, the Active Leg of the graphic highway does not appear. Active Route--when Off is selected, the graphic highway does not appear. Track Log--when Off is selected, the Track Log does not appear. 7 Highway Page The Highway page is for navigating when a straight line course can be followed. To navigate using the Highway page, just follow the road. If the Highway moves to the right, turn right until the triangle is aligned with the White Line in the middle of the Highway, and the Highway is pointed toward the top of the screen. When you are approaching a turn, the message "Approaching Turn" appears. As you approach your destination, the message "Arriving at Destination" appears. GPS 72H Owner's Manual The Main Pages Saved Tracks--when Off is selected, Saved Tracks will does not appear. · Waypoint--the Waypoint Tab contains the On/Off settings for Next, Route, and Other. Next--determines if the next waypoint in a Route appear.

If On is selected, you will see the next waypoint in the Route. If On is selected and the Route option is set to Off, only the Next Waypoint in the Route appears. Route--determines if the waypoints in a Route appear. If set to Off, Route Waypoints will not be on the Graphic Highway. Other--determines if nearby waypoints appear. Active Route Page If you are navigating a route, the Active Route page displays the route information. Active Route Page options Use Map--switches to map page. Add Waypoint--allows you to add an existing waypoint to the active route. Remove Waypoint--allows you to remove a waypoint from the active route. Reverse Route--reverses the active route, placing the last waypoint at the top of the list.

Plan Route--to plan a route, enter Speed, Fuel Flow, Depart Time, and Depart Date for future planned routes. Fuel Flow is measured in units per hour. GPS 72H Owner's Manual The Main Pages NOTE: Consult your vehicle's owner's manual for performance specifications. The Active Route page and the Route page display your trip information for each leg of the route, which includes Course, ETA, Fuel to point, Leg Fuel, Leg Time, Sunrise and Sunset at point location, Time to Point, and Leg Distance. To show a specific field, use the rocker to move through the fields.

Stop Navigation--stops navigation of active route. Receiver status Satellite location Date Data fields Signal strength Tme Locaton GPS Information Page GPS Information Page Options Start/Stop Simulator--enables you to turn the GPS simulator on or off. Track Up/North Up--indicates whether satellites are shown with the rings oriented with North toward the top of the screen or your current track toward the top of the screen. New Elevation--use to enter a different elevation. New Location--use if you have moved the GPS 72H more than 600 miles (1,000 km).

GPS Information Page The GPS Information page displays your speed, elevation, the estimated accuracy, receiver status, satellite locations, satellite signal strength, the date, the time and the GPS receiver's current location. GPS 72H Owner's Manual Settings Settings The Main Menu contains settings and features not found on the main pages and sub-menus. The Main Menu is accessible from any page by pressing MENU twice. To select a menu item or customize an option, use the rocker and the ENTER button. Used memory Menu options Trip Computer For information on the data fields on the Trip Computer page, go to page 3033. @@@@Reset Max Speed--resets the Max Speed data field to zero. @@Delete Saved Track--deletes a saved track. Delete All Tracks--deletes all saved tracks. Setup Track Log--the Track Log Setup menu appears. · Record--Off, Wrap When Full or Stop When Full.

@@ · Record Method--set to Auto, Time, or Distance. @@@@The nearest waypoint is at the top of the list. Find By Name--displays a list containing all user waypoints. @@@@Delete Waypoint--deletes the selected waypoint. @@@@Copy Route--copies a selected route. @@@@You can turn the Proximity Alarm on or off. Proximity Options Add Waypoint--displays the Points menu. Select a point to insert into the Proximity List. @@@@Each tab contains the settings that determine how the GPS 72H functions. Use the rocker and the ENTER button to change settings.

General Tab The General tab contains settings for Receiver Mode, WAAS, Backlight Time Out, Beeper, and Language. · Battery Saver--optimizes the GPS 72H to save battery power. You may experience slower screen updates, but you should notice a significant increase in battery life. When in Battery Saver mode, the GPS 72H does not receive WAAS satellite signals. For more battery information, see pages 2 and 41.

· Simulator--turns off the GPS receiver and simulates satellite reception. WAAS--Wide Area Augmentation System. Use the WAAS capability to increase GPS 72H accuracy to approximately three meters. Backlight Timeout--sets the amount of time the backlight stays on. Beeper--sets a beeper alert for buttons and message, or message only.

GPS 72H Owner's Manual General Tab Page Mode--allows you to choose from the following operation modes: · Normal--default mode set from the factory. Use this setting for best performance. 2 Settings Language--sets the screen language for the GPS 72H. Time Tab The Time tab contains the specific time settings. Current Date--displays the current date based on GPS data. Current Time--displays the current time based on your time settings and GPS data. Units Tab The Units tab allows you to customize the units used for many different types of data. The units apply to related data fields throughout the GPS 72H. Time Tab Page Time Format--select either 12- or 24-hour format. Time Zone--select the appropriate time zone.

Daylight Savings Time--select YES to use daylight saving time, NO to ignore it, or AUTO to automatically turn daylight saving time on and off. GPS 72H Owner's Manual Units Tab Page Elevation--select feet or meters for elevation measurement. 2 Settings Depth--set to show in feet, fathoms, or meters. The GPS 72H must be connected to a NMEA device providing the DPT or DBT sentence. For more information, see page 34. Distance and Speed--set to nautical, statute, or metric. Temperature--set to Fahrenheit or Celsius. Direction Display--set to Numeric Degrees, Cardinal Letters, or Mils. This setting is used in all fields that relate to direction. Speed Filter--set to Auto or User defined setting.

If User is selected, a Seconds field appears. To enter a user-defined setting, highlight the Seconds field, and press ENTER.



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When finished, press ENTER to save. When using a user-defined setting, the GPS 72H averages the speed and heading at the rate 2 specified in the time setting. To change the time setting, go to page 25.

Location Tab The Location tab contains the settings for Location Format, Map Datum, North Reference, and Magnetic Variation. The settings are used in fields throughout the device. Location Tab Page Location Format--allows you to choose from 29 different formats. Map Datum--describes geographic positions for surveying, mapping, and navigation, but are not actual maps in the GPS 72H. There are over GPS 72H Owner's Manual Settings 100 datums available.

Only change the Map Datum if you are using a chart or a paper map that specifies a different datum in the legend. NOTICE: Selecting the wrong map datum can result in substantial position errors. When in doubt, use the default WGS 84 datum for best overall performance. magnetic variation at your current location, and provides magnetic north heading references based on the value you entered. NOTE: If User is selected, you must periodically update the magnetic variation at your present position. NOTICE: Failure to update this setting may result in substantial differences between the information displayed on your GPS 72H and external references, such as a magnetic compass. North Reference--select the reference used in calculating heading information. · Auto--provides magnetic north heading references which are automatically determined from your current location. · True--provides headings based upon a true north reference. · Grid--provides headings based on a grid north reference.

· User--allows you to specify the GPS 72H Owner's Manual Magnetic Variation--displays the magnetic variation at your current location. When you select User for the North Reference setting, this field is used to enter the magnetic variance. 27 Settings Alarms Tab The Alarms tab contains settings for Anchor Drag, Approach and Arrival, Off Course, Shallow Water, and Deep Water. These settings determine if a warning beep sounds, and if an alarm message appears. · Automatic--alerts you between 15 and 90 seconds before reaching the destination, depending on your speed. · Distance and Time--alerts you at the specified distance or time. Off Course--alerts you when you are off course more than the set distance. Shallow Water--requires input from a NMEA device supplying the DPT sentence. The Shallow Water alarm alerts you when the water depth is less than the set depth. For NMEA connection information, see page 38.

Deep Water--requires input from a NMEA device supplying the DPT sentence. The Deep Water Alarm alerts you when the water is deeper than the set depth. For NMEA connection information, see page 38. Alarms Tab Page Anchor Drag--alerts you when the boat has drifted more than the set distance. Approach and Arrival--alerts you when you are approaching a turn or arriving at your destination.

2 GPS 72H Owner's Manual Settings Interface Tab The Interface tab contains two fields: Serial Data Format and USB. Interface Tab Page Serial Data Format-- communication settings between the GPS 72H and other electronic devices. · GARMIN--allows the GPS 72H to communicate with GARMIN software and other GARMIN GPS devices. · GARMIN DGPS--allows the GPS 72H to communicate with GARMIN Differential Correction devices. The GPS 72H can have GPS 72H Owner's Manual the beacon receiver scan for an available DGPS beacon or can tune the beacon receiver to the frequency and bit rate of a nearby DGPS beacon.

· NMEA--allows the GPS 72H to transmit NMEA 0183, version 2.3 data. It also allows the GPS 72H to accept NMEA data from another NMEA device, such as an echo sounder. The baud (speed of communication in bits per second) appears in the Baud field. For NMEA connection information, see page 38. · Text Out--allows the GPS 72H to output simple text data. · RTCM In--allows the GPS 72H to accept DGPS information from a device supplying RTCM data in an SC-104 format. 2 Settings · RTCM In/NMEA Out--allows the GPS 72H to communicate with a NMEA 0183, version 2.3 sentences, GPRMC, GPGGA, GPGSA, GPGSV, GPGLL, GPBOD, GPRTE, and GPWPL. For NMEA connection information, see page 38.

· RTCM In/Text Out--allows the GPS 72H to output simple text data that includes date, time, position, and velocity information. · None--turns off all serial communication. USB--displays connectivity of the device to a computer. For more information, see page 40. Data Field Options The following table lists all of the GPS 72H data fields and descriptions. Data Field Accuracy Bearing Description The accuracy of the GPS signal. The direction from your current location to a destination. The direction from your starting location to a destination. The depth of the water. Requires a NMEA 0183 device connection to acquire data.

GPS 72H Owner's Manual Course Depth 0 Settings Data Field Dist to Destination (distance) Description The distance from a current location to a GO TO destination or finalwaypoint. Distance from a current location to a GO TO destination or the next waypoint. Estimated time you will reach a GO TO destination or finalwaypoint. Data Field Maximum Speed Moving Avg Speed (average) Moving Trip Timer Off Course Description The maximum speed. Average speed of the GPS 72H while moving.

Total time the GPS 72H has been moving. The distance (left or right) you are from the original course (path of travel). Thedatafield arrow points in the direction you are traveling. Displays rate of current speed. Dist to Next (distance) ETA at Destination (estimated time of arrival) Pointer ETA at Next Estimated (estimated time time you will of arrival) reach a GO TO destination or next waypoint.

Elevation Height above mean sea level (MSL). Speed GPS 72H Owner's Manual Settings Data Field Time of Day Description Current time of day based on time settings. See page 25. The estimated time required to reach a GO TO destination, or thefinal waypoint in a route. The estimated time required to reach a GO TO destination, or the next waypoint in a route. Direction you must travel to return to route. Data Field Total Avg Speed (average) Description Average speed of the GPS 72H for both moving and stopped speeds since last timer reset. Total time the device has been in operation since last reset of the trip timers. The direction of movement relative to a ground position. A running tally of distance traveled since last reset.

See page 20. Time to Destination Total Trip Timer Time to Next Track Trip Odometer To Course 2 GPS 72H Owner's Manual Settings Data Field Turn Description The angle difference (in degrees) between the bearing to your destination and current line of travel. L means turn left. R means turn right.



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The speed at which you are closing on a destination along a route. (estimated time of arrival). See page 38. Data Field Water Speed Description Speed of the boat relative to the water. Requires a NMEA 0183 device to acquire data. See page 38.

The temperature of the water. Requires a NMEA 0183 device to acquire data. See page 38. (Velocity Made Good) VMG Water Temperature GPS 72H Owner's Manual Marine Navigation The GPS 72H can be used for marine navigation, as either a handheld or a mounted device. NOTE: Your choice of fastener hardware depends on the mounting surface material.

Cradle Bal mount knob Mounting the GPS 72H A marine mount may be included with your device, or it is available as an optional accessory. Hardware Needed for Installation · Drill · Screwdriver (Phillips or flat) · Three #8 machine bolts with matching nuts and washers and a 5/32 in. (4 mm) drill bit, or three #8 self-tapping screws and a 1/16 in. (1.5 mm) drill bit.

Swivel base Bal mount Installing the Mount in a Fixed Position Select a location that provides optimal viewing and allows easy access to the keypad. Select a mounting surface strong enough to support the weight of the device and protect it from excessive vibration or shock. NOTICE: Do not place the mount in a location where the device is exposed to extreme temperature conditions. GPS 72H Owner's Manual Marine Navigation 1. Remove the bail mount knob. Bail mount knob Bal mount Swivel base 2. Using the bail mount as a template, mark the location of the three pilot holes on the mounting surface. NOTE: If securing the base using self-tapping screws, drill 1/16 in. (1.5 mm) starter holes at the locations you marked.

Starter holes should be no deeper than half the screw length. 4. Secure the bail mount with three bolts or screws. Do not overtighten. 5. Align the mounting hole on the cradle with the holes on the bail mount and secure it with the bail mount knob. Bal mount 3. If you are securing the base with machine bolts, drill three 5/32 in. (4 mm) pilot holes. GPS 72H Owner's Manual 1.

Remove the base knob. Set the base knob and the swivel base aside. 2. Remove the bail mount knob. Separate the bail mount from the cradle.

3. Using the swivel base as a template, mark the location of the three holes. Installing the Mount in a Swivel Position Marine Navigation Swivel base 4. If securing the base with machine bolts, drill three 5/32 in. (4 mm) holes.
1. Tilt the GPS unit by loosening the knob. 2. Rotate the entire bracket assembly by loosening the bail mount knob on the swivel base. Adjusting the Viewing Angle NOTE: If securing the base using self-tapping screws, drill 1/16 in. (1.5 mm) starter holes at the locations you marked. Starter holes should be no deeper than half the screw length. 5. Secure the swivel base with three bolts or screws.

Do not overtighten. 6. Align the mounting hole on the cradle with the holes on the bail mount and secure it with the bail mount knob. Knob 3. Select your preferred viewing angle and tighten the knobs. GPS 72H Owner's Manual Marine Navigation 1. Locate the groove on each side of the device case. 2. Align the grooves on the device with the corresponding tabs on the device cradle and slide the device downward into the bracket. 3.

Secure the device in the cradle by sliding the locking mount handle to the left. Groove Locking handle Installing the Device into the Mounting Bracket Receiving Marine Data To receive VMG data, you must be connected to a NMEA 0183-compatible water-speed sensor. To receive water temperature data, you must be connected to a NMEA 0183-compatible temperature sensor. NOTE: To receive water speed and temperature information, connect a water-speed and water-temperature sensor to the device. GPS 72H Owner's Manual 7 Marine Navigation Connecting the Power/Data Cable The power/data cable connects the GPS 72H to a 8-35 volt DC system and provides interface capabilities for connecting external devices.

The color code in the diagram below indicates the appropriate harness connections. The replacement fuse is a AGC/3AG - 2.0 Amp fuse. Color Red Black Brown White Function Power Ground Data Out (Tx) Data In (Rx) >> GPS 72H Power/Data Cable Interfacing The following formats are supported for connection of external devices: GARMIN proprietary Differential GPS (DGPS), NMEA 0183 version 2.3, ASCII Text Output, and RTCM SC-104 input (version 2).

0). GPS 72H Owner's Manual Marine Navigation The following are the sentences for NMEA 0183, version 2.3 output: · Approved sentences--GPRMC, GPGGA, GPGSA, GPGSV, GPGLL, GPBOD, GPRTE, and GPWPL. · Proprietary sentences--PGRME, PGRMZ, and PSLIB. The GPS 72H also includes NMEA input with support for the DPT, MTW, and VHW sentences. +Battery WIRE COLOR RED BLACK 832 Vdc WIRE RED POWER GND NMEA GND Rx Tx GPS 72H >> BROWN WHITE >> NMEA 0183 Compliant Device Wiring the GPS 72H to a Standard NMEA 0183 Device NOTE: Consult the installation instructions for your NMEA 0183-compliant device to identify the Transfer (Tx) and Receiving (Rx) connections. GPS 72H Owner's Manual Appendix Appendix Connecting Your Device to a Computer 1. Plug the small end of the USB cable into the mini-USB port on the back of the device (under the weather cap). 2. Connect the larger end of the USB cable to an available USB port on your computer.

Transferring Tracks, Routes, or Waypoints Tracks, routes, and waypoints can be transferred between your device and a computer using MapSource.

@@ Connect your device to the computer with a USB cable. 2. Open MapSource on your computer. 3. Select tracks, routes, or waypoints to transfer. 4.

@@@@@ Select a shorter backlight timeout. See page 24. · Turn off GPS when not using.

Use a soft, clean, lint-free cloth. Use water, isopropyl alcohol, or eyeglass lens cleaner. Apply the liquid to the cloth and then gently wipe the display screen with the cloth. Resetting the GPS 72H If your GPS 72H stops functioning, you can remove and then reinstall the batteries to reset the device. GPS 72H Owner's Manual Appendix Specifications Physical Size: W × H × D 1.

2 × 2.7 × 6.2 in. (3.0 × 6.

9 × 15.75 cm) Weight: 7.9 oz. (224 g) Display: High-contrast FSTN, 4-level gray scale display (120 × 160 pixels) Case: Fully gasketed, floatable, high-impact plastic alloy, waterproof to IEC 529-IPX-7 Temp. Range: From 5°F to 140°F (from -15°C to 60°C) Acquisition Times: Approximately 3 seconds (hot start) Approximately 32 seconds (warm start) Approximately 39 seconds (cold start) Update Rate: 1/second, continuous GPS Accuracy: * < 15 meters (49 feet) RMS 95% typical DGPS (USCG) Accuracy: 35 meters (1016 ft), 95% typical DGPS (WAAS) Accuracy: 3 meters (10 ft.) 95% typical with DGPS corrections Velocity Accuracy: 0.



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1 knot RMS steady state Dynamics: 6 g * Subject to accuracy degradation to 100m 2DRMS under the US DOD imposed Selective Availability Program. GPS 72H Owner's Manual Performance Battery Life: 18 hours in Battery Saver mode Receiver: Differential-ready 12 parallel channel receiver 2 Appendix Power Batteries: Two 1.5-volt AA batteries Source: 835V DC Fuse: AGC/3AG - 2.0 Amp DGPS: 10 ft.

(3 m) 95% typical* Wide Area Augmentation System (WAAS) accuracy in North America. * 1 Velocity: 0.1 meter/sec steady state Interfaces: Garmin Proprietary (USB) Data Storage Life: Indefinite; no memory battery required The temperature rating for the GPS 72H may exceed the usable range of some batteries. Alkaline batteries can rupture at high temperatures. Alkaline batteries lose a significant amount of their capacity as temperature decreases. Use lithium batteries when operating the GPS 72H in below-freezing conditions. Extensive use of screen backlighting will significantly reduce battery life. 1

Accuracy GPS: <33 ft. (10 m) 95% typical* * Subject to accuracy degradation to 100m 2DRMS under the U.S.

DoD imposed Selective Availability (SA) Program when activated. GPS 72H Owner's Manual Appendix Software License Agreement BY USING THE GPS 72H, 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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To view the full Declaration of Conformity, see the Garmin Web site for your Garmin product: www.garmin.com. GPS 72H Owner's Manual Index Index A accessories ii active leg 17 Active Route page adding waypoint 18 reversing route 18 stopping navigation 19 using the map 18 Alarms tab anchor drag 28 approach and arrival 28 deep water 28 off course 28 shallow water 28 anchor drag 28 B backlight 5 adjusting 5 timeout 5 GPS 72H Owner's Manual batteries installing ii optimizing life 41 saver mode 42 storage 2 type to use 2 bearing 30 beeper 24 buttons 3 C Celestial menu Hunt and Fish 23 Sun and Moon 23 cleaning device 41 Compass page bearing pointer 16 change data fields 17 computer checking connection 40 connecting to 40 contact information ii current time 25 custom data fields 30 D data fields changing 14 descriptions 30 date 25 Daylight Savings Time 25 Declaration of Conformity 44 deep water 28 depth 26, 30 direction display 26 distance measuring 14 distance and speed 26 E elevation 25 ENTER button 3 G Garmin Product Support ii Index General tab backlight setting 24 language selection 25 mode 24 WAAS 24 GO TO button 9 GPS 72H cleaning 41 connecting to computer 40 data fields 30 resetting 41 specifications 42 GPS accuracy 42 GPS information page track up/north up 19 GPS simulator 19 H Highway page Active Route 17 change data fields 17 setup 17 track log 17 Hunt and Fish 23 I Interface tab communication settings 29 serial data format 29 USB 30 interfacing 38 L language setting 25 location format 26 M magnetic variation 27 Main menu accessing 13 options 2033 Main pages Active Route page 18 Compass page 16 GPS information page 19 Highway page 17 Map page 14 map datum 26 Map page change data fields 15 full screen 15 measure distance 14 orientation 15 setup page layout 15 zoom scale 14 map pointer 14 MapSource transferring routes 40 transferring tracks 40 transferring waypoints 40 marine mount installing 3437 marine usage interfacing 38 NMEA connection 38 MARK button 3 marking a location 6 measuring distance 15 mini-USB 1, 40 MOB button 3 GPS 72H Owner's Manual Index N navigating route 12 saved track 11 stopping 15 new location 19 NMEA 29 wiring 39 north reference 27 North Up 19 O odometer 20 off course 28 optional accessories ii P PAGE button 3 points 21 position icon 14 power/data cable 38 power button 3, 4 product registration i projecting a waypoint 8 Proximity Alarm 22 proximity list 22 GPS 72H Owner's Manual proximity waypoints adding 22 removing 23 R registration i reset max speed 20 resetting GPS 72H 41 reset trip 20 rocker 3, 4 routes changing name 12 copying 22 creating 11 deleting 22 editing 12 options 22 transferring 40 RTCM 29 S satellite signals acquiring 5 signal strength 19 serial number ii Setup menu Alarms tab 28 General tab 24 Interface tab 29 Location tab 26 Time tab 25 Units tab 25 shallow water 28 simulator 24 software license agreement 44 specifications 42 speed filter 26 Sun and Moon 23 system information 23 T temperature 26 time date 25 daylight savings 25 format 25 time zone 25 TracBack 11 7 Index tracks clearing track log 7 deleting 21 navigating 11 setting up 10 transferring 40 Track Up 19 trip computer resetting options 20 U unit ID number 23 USB 40 V VMG 33, 37 W WAAS 24 Water Speed 33, 37 Water Temperature 33, 37 waypoints creating 7 deleting 8 deleting by symbol 22 editing 7 finding nearest 21 options 21 projecting 8 transferring 40 wrist strap 5 Z zoom 3 zoom scale 14 GPS 72H Owner's Manual For the latest free software updates (excluding map data) throughout the life of your Garmin products, visit the Garmin Web site at www.garmin.com. © 2009 Garmin Ltd. or its subsidiaries Garmin International, Inc. 1200 East 151st Street, Olathe, Kansas 66062, USA Garmin (Europe) Ltd. Liberty House, Hounsdown Business Park, Southampton, Hampshire, SO40 9LR UK Garmin Corporation No.

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