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Raymarine c80 installation manual

C-Series Display Reference Manual Document number: 81221_4 Date: March 2006 E-Series Reference Manual Trademarks and registered trademarks Autohelm, HSB, Raymarine, RayTech Navigator, Sail Pilot, SeaTalk and Sportpilot are registered trademarks of Raymarine Limited. Apelco is a registered trademark of Raymarine Holdings Limited (registered in all major marketing territories). AST, Autoadapt, Auto GST, Autoseastate, Autotrim, Bidata, Marine Intelligence, Maxiview, On Board, Raychart, Raynav, Raypilot, Raystar, ST40, ST60, Seaclutter, Smart Route, Tridata and Waypoint Navigation are trademarks of Raymarine Limited. Navionics is a registered trademark of Navionics Company, Italy. All other product names are trademarks or registered trademarks of their respective owners. Software in this product is based in part on the work of the Independent JPEG Group. Contents of this handbook © Raymarine UK 2006. Important Information Intended use The display units detailed in this handbook may form part of marine navigational radar system or GPS system intended for use on (non-IMO/SOLAS class) leisure vessels or small workboats. This handbook contains important information on the operation and maintenance of your C-Series Display. To get the best results in operation and performance, please take the time to read this handbook thoroughly. For full details of installation and system integration, please refer to the C-Series Installation Guide supplied with the display. Safety notices WARNING:Navigation Aid This device is intended to be used as an aid to navigation. Its accuracy can be affected by many factors, including equipment failure or defects, environmental conditions and incorrect handling or use. It is the user's responsibility to exercise common prudence and navigational judgement. This device should not be relied upon as a substitute for such prudence and judgement. Always maintain a permanent watch so you can respond to situations as they develop. Your Raymarine product should be augmented by another navigational information source, personal injury and/ or damage to the vessel. WARNING:High voltage The display unit and scanner unit contain high voltages. Adjustments require specialized service procedures and tools only available to qualified service technicians - there are no user serviceable parts or adjustments. The operator should never remove the display unit cover or attempt to service the equipment. WARNING:Electromagnetic energy The radar scanner transmits electromagnetic energy. Ensure that the scanner has been installed according to the recommendations given in the relevant scanner handbook. Avoid looking directly at the antenna. ii C-Series Display Reference Manual WARNING:Fishfinder sounder module Removing the transducer cable from the rear of the fishfinder sounder module whilst it is switched on can cause sparks. Only remove the transducer cable after power has been switched off. Ensure that the sounder module is mounted where it is well ventilated and in an area free from flammable vapors. CAUTION: Water Ingress To prevent the ingress of water and consequent damage to the display, ensure that the chart card door is firmly closed. This can be confirmed by an audible click. CAUTION: CompactFlash Cards • Removing the CompactFlash card whilst information is being written to or read from it may cause damage to the card and loss of all data. Use the proper procedure detailed on page 18 to remove the card. •Do not save data (waypoints, routes etc.) to a Navionics card as the charts may be overwritten. When archiving use a different CompactFlash card. •DO NOT use a metallic instrument such as a screwdriver or pliers to help you remove a card, as doing this can cause irreparable damage. CAUTION: Global Positioning System Antenna Do not connect or disconnect the GPS antenna from the display unit whilst power is switched on. Doing this may result in irreparable damage. CAUTION: UV Light To provide protection against the damaging effects of UV light, it is advisable to replace the sun cover provided when the display is not in use. CAUTION: Cleaning the display Take care when cleaning the display, to avoid damaging it: (1)Do NOT wipe the display screen with a dry cloth, as this could scratch the screen coating. (2)Do NOT use acid, abrasive based or ammonia products. Disclaimers Electronic charts are an aid to navigation designed to facilitate the use of authorized government charts, not to replace them. Only official government charts and notices to mariners contain the current information needed for safe navigation. The Captain is responsible for their prudent use. The C-Series and its charts do not therefore exclude the user from carrying the required official charts and documents. Raymarine does not warrant that this product is error-free or that it is compatible with products manufactured by any person or entity other than Raymarine. This product uses digital chart data, and electronic information from the Global Positioning System (GPS) which may contain errors. Raymarine does not warrant the accuracy of such information and you are advised that errors in such information may cause the product to malfunction. Raymarine is not responsible for damages or injuries caused by your use or inability to use the product, by the interaction of the product with important information utilized by the product and supplied by third parties. About this manual This manual describes how to operate your C-Series display in conjunction with Navionics cartography. It assumes that all peripheral equipment to be operated with it is compatible and has been correctly installed. This manual is intended for users of varying marine abilities, but assumes a general level of knowledge of display use, nautical terminology and practices. Technical accuracy To the best of our knowledge, the information contained within this handbook was correct at the time of printing. However, Raymarine cannot accept liability for any inaccuracies or omissions it may contain. In addition, Raymarine's policy of continuous product improvement may change specifications without notice. As a result Raymarine cannot accept liability for any differences between the product and this handbook. Raymarine does not support after-sales or technical support for the geographic area you wish to navigate are required. For the geographic area you wish to navigate are required. The charts are available in electronic format on Navionics Chart cards. To check the current availability of Navionics® chart card types and the latest feature sets, visit www.navionics.comor www.navionics.it. To obtain Navionics cards, contact your local dealer or visit the Navionics web site. iv C-Series Display Reference Manual Alternatively, anywhere in North America call Navionics toll-free on 1-800-848-5896 Outside of North America, contact your local dealer or Navionics SpA on: Phone: (+39) 0584 961696 or Fax: (+39) 0584 961309) When archiving data, Raymarine recommends that you only use SanDisk CF memory cards. Other brands of CF memory card may not work in your C-Series display. Disposal Waste Electrical and Electronic Equipment (WEEE) Directive The WEEE Directive requires the recycling of waste electrical and electronic equipment. Whilst the WEEE Directive does not apply to some of Raymarine's products, we support its requirements as part of our environmental policy and we ask you to be aware of how you should dispose of this product. The crossed-out wheelie bin symbol found on our products signifies that it should not be disposed of in general waste or landfill. Please contact your local dealer, national distributor or Raymarine Technical Services for information on product disposal. Contents v Contents Chapter 1: Overview

Chapter 1: Overview This chapter gives an overview of the C-Series display system and its features. 1.1 What will my C-Series integrate with? Instruments AutopilotAIS receiver C-Series display PAGE ACTIVE WPTS MOB DATA MENU IN Remote keyboard 11.18.02 RAY240 MENU OK CH H₀9 HULQ WX SCAN WATCH SQ D9001 ₁ Fishfinder DSM 250 Navtex receiver When used as part of a SeaTalk system it will display information from other SeaTalk and NMEA instruments. Information from the C-Series display can be transferred between applications and to other SeaTalk instruments within the system. For more detail on system integration, please refer to the Installation Guide. 2 C-Series Display Reference Manual 1.2 What can the C-Series Display do? With the appropriate equipment connected to your system and the necessary data available, your C-Series display combines the following applications which are used to: Chart (Chapter 4) Locate where you are. 0.5nm North-Up (Relative Motion) Local Interpret your surroundings. Monitor where you are going. Navigate to a specified position (waypoint). Build and navigate routes. View details of boats equipped with AIS. Distinguish between fixed and moving objects. Measure distances and bearings. You will need a chart card, and position/heading data, for the chart application to be fully functional. Fishfinder (Chapter 5) PTRANSDUCER ZOOM... BOTTOM LOCK... A-SCOPE... PRESENTATION... SETTINGS... Build a picture of what is below your vessel. Locate & distinguish underwater objects & targets. Distinguish the seabed and its texture. Obtain information about water depth, temperature. Mark a point of interest, fishing spot etc. Determine depths and distances of targets. You will need position data, in addition to a DSM250, for your fishfinder to be fully functional. Radar (Chapter 6) 6nm North-Up (Relative Motion) Rings 1nm Detect landmasses & navigation markers. Detect and measure the range and distance of other vessels. Acquire targets and track them for collision avoidance. Navigate to a specified position (waypoint). View details of boats equipped with AIS. D7375-2 You will need position and heading data, in addition to a compatible scanner, for your radar application to be fully functional. Data (Chapter 7) View data generated by the system or by instruments available on NMEA 2000 and SeaTalk or SeaTalk2. D7376-1 Course Deviation Indicator (Chapter 8) 3nm North-Up Relative Motion Local View real-time display of your vessel on a 'rolling road' in 3D perspective. Give details of any correction required to steer your vessel along a given course. View data about the distance and time to go until you reach a specified point. D7379-1 You will need accurate heading and position data for your CDI application to be fully functional. Engine Monitor (Chapter 9) View engine data e.g. engine temperature, oil pressure, fuel level etc from up to three engines on a compatible engine system. D7497-1 Navtex (Chapter 10) Major areas of NAVTEX coverage include the Mediterranean Sea, the North Sea, coastal areas around Japan and areas around the North American continent. Automatic broadcast of localised Maritime Safety Information (MSI) Receive navigational and meteorological warnings, and search and rescue information. D8728-1 You will need a Navtex receiver connected to your system via NMEA, in order to receive this data. 4 C-Series Display Reference Manual Waypoints (Chapter 3) AIS (Chapter 11) Whilst not applications in their own right, waypoints and AIS are handled at system level and are covered in separate chapters. 1.3 The Simulator The C-Series Display includes a simulator mode, which allows you to practice operating your display without data from a GPS antenna, radar scanner, fishfinder or AIS receiver. The simulator mode is switched on/off in the System Setup Menu (see page 183). Once enabled, you can use the simulator: •Before installation - Simply connect the display to a 12V DC power supply, fused at 1 amp by attaching the red core from the power lead to positive (+) and the black core to negative (-). •After installation - Whilst in a marina or at anchor. Please note that system settings made whilst in simulator mode, are not transmitted via SeaTalk to other equipment. Important : Incoming AIS safety messages cannot be displayed while the simulator is switched on. Chapter 2: General Operation 5 Chapter 2: General Operation 2.1 Introduction This chapter gives detail of the general operation of the C-Series display, and covers the following subjects: •Powering the display on/off. •Using the controls. •Application display. •Displaying and editing additional information. •Adjusting the display lighting. •Initial setup procedures. •Using CompactFlash cards. •Managing data. •Emergencies and warnings. 2.2Powering the display ON/OFF Power ON Press the POWER button until the power-on beep is sounded. Press OK to remove it. At this time the radar scanner (if fitted) is in Standby mode. Power OFF Press and hold the POWER button until the power down count reaches zero. If the POWER button is released within the countdown period, power off is cancelled. Remember to replace the suncover to protect the display. 6 C-Series Display Reference Manual 2.3 Using the controls The control panel Rotary ACTIVE Press to access this application. Softkeys Press the corresponding function identified by the on-screen label Power Press/hold to power on/off. ... chart vectors... Press to maximise the screen and data bar window. on/off functions. - Press again to return to multiple windows. PAGE ACTIVE WPTS MOB DATA MENU OUT RANGE IN OK CANCEL Softkeys Press to select the corresponding function identified by the on-screen label Power Press on/off. Press again to return to multiple windows. Press and hold to turn the display OFF. RANGE Press to change the display scale so that a smaller or larger area can be seen on the screen. Chart List Uset Open the cover to install CompactFlash cards. PAGE Press to scroll through available pages. Press and hold to select different page set or customise your own layout. WPTSMOB Press to display the waypoint list. Press again to place waypoint at your current position. Press and hold to place a Man Overboard (MOB) marker at your current position. Press and hold again to exit MENU Press to access the set up menu information. Rotary control Use to edit alpha-numeric values, and scroll through lists. Turn clockwise to increase value and counter-clockwise to decrease value. Press to move to the next character when editing text. Use to edit symbology (VRM/ EBL etc). Trackpad Used to control the on-screen cursor and to scroll through menu items. Press the corresponding edge of the trackpad to move the cursor horizontally, vertically or diagonally. Press and hold to move rapidly over larger distances. CANCEL Press to cancel the selected on-screen option when editing data; also used to return to the previous soft key set or menu. 1 D7517 Chapter 2: General Operation 7 Buttons and soft keys To navigate to the required function you will need to press a series of buttons and/or soft keys: Buttons Access system functions or change what you see on-screen. Within the text of this document they are written in bold capitals e.g. WPTS/MOB. Press and hold to access short cuts. Soft keys PAGE ACTIVE WPTS MENU These change depending on application or function being performed. Press the corresponding key (below the screen) to select. Further soft keys may be displayed. If a key has several functions, each press will highlight the next option. If a key displays a single value or a slider above, GROUPS... DETAILS... SET UP DEFAULT EDIT DEFAULT SYMB GROUP Example: the example above shows the series of button and soft keys pressed required to change the waypoint default symbol or group. This process of pressing buttons and soft keys to navigate to the required function is simplified in this manual and represented by a strip e.g. WPTS REVIEW and EDIT SET DEFAULT SYM SET UP DEFAULT MOB WAYPOINTS & GROUP SYMB GROUP D7365-2 Note: The key beep that you hear whenever a button or soft key is pressed, can be switched off and the soft keys automatically hidden if required.For more details, please refer to the Display Setup menu on page 191. 8 C-Series Display Reference Manual The cursor is context-sensitive - when it is placed over an object e.g. a waypoint or chart feature, it changes color and a label or information associated with the object is displayed. When you place the cursor over certain items, the soft keys change to enable you to access related operations. Notes: (1) For a full list of cursor labels and their meanings, please see page 211 (2)For details of how to temporarily hide the cursor, please see page 191. 2.4Displaying applications The various applications that make up your C-Series system are displayed in a series of screens known as page sets. There are 4 pre-configured and one empty page set to choose from. Each page set contains 5 pages. These pages are made up of 1, 2, 3 or 4 windows combined in various formats. Each window can display information in one of the following formats (consists of 1, 2, 3 or 4 windows) If necessary, you can change the combination and layout of these page sets (see page 177). Note: For details of how to select page sets, pages and windows, please refer to page 14. Chapter 2: General Operation 9 2.5 Additional screen information Information is displayed on your C-Series system screen in a variety of methods: Status bar Status bar Gives information specific to Gives information specific to each application, each application. moved. Cannot be edited or moved. Data bar Data bar Gives information associated with your C-Series system have been made. Status bar for the environment, your boat or the environment. Customisable content* Customisable content* Vertical or horizontal format* Vertical or horizontal format* Normal or large size*. Normal or large size*. Status icons Status icons Confirm status of DSM, Confirm status of DSM, GPS and scanner. GPS, AIS and scanner. 10 C-Series Display Reference Manual Pop-up messages Pop-up messages Alert you to a situation e.g. alarm, function not available, alarm, function not available. Not editable. May require a response e.g. May require a response e.g. editing a waypoint. Menus (see next page) Menus (see next page) Used to configure system particular needs. Used to configure system your particular needs. MENU Whenever the MENU button is pressed, the Setup menu is displayed MENU containing a list of all the menus available for the active application D6582-1 together with system wide menus e.g. System Setup. Chapter 2: General Operation 11 10 C-Series Display Reference Manual Menus 0 Menus enable you to configure your system to your particular needs. MENU MENU Alarm Setup ... System Setup... Alarm Setup ... System Setup... Display Setup... System-wide menus Databar Set... Select Page Setup... System Diagnostics... Remove CF Card For details of individual chapter. For all other settings, please refer to Chapter 12:System setup and customizing. To access a menu: 1. Select the appropriate menu section, using: Cartography Setup Menu Chart Setup Menu Chart Setup Menu Chart Detailed Chart On/Off Detailed Chart On/Off ON Safety Contour ALL Object Detail Contour ALL Nav. Marks ON Highlight or change value to new setting, using: Trackpad (up/down) or Rotary control 2. Select item, using: Trackpad (right) Trackpad (right) 2. Cartography Setup Menu Chart Detailed Chart On/Off Chart Text On Chart Boundaries On Compass Setup... Spot Soundings ON Safety Depth Depth Contour ALL Nav. Marks ON Highlight or change value to new setting, using: Trackpad (up/down) or Rotary control 3. Edit item, using: Trackpad (right) 2. Cartography Setup Menu Chart Detailed Chart On/Off Chart Text On Chart Boundaries On Spot Soundings ON Safety Depth Depth Contour ALL Nav. Marks ON Highlight or change value to new setting, using: Trackpad (up/down) or Rotary control 3. Repeat Steps 1 and 2 if necessary. Notes: (1) Character text can be entered in upper or lower case. (although the system is not case sensitive e.g. WAYPOINT 1, Waypoint 1are considered to be the same name). (2)If you need to use special or accented characters (e.g. ~, '), the Extended Character Set should be switched to ON in the System Setup Menu (see page 183). 12 C-Series Display Reference Manual Status icons The status icons on the data bar confirm that the status is connected to your C-Series system have been made. Status icon D6892-3 (animated icon) D6893-2 Description The boat and fish icon indicates the current status of your fishfinder: Icon D6894-2 (static icon) D8929_1 The scanner icon indicates the current status of your radar scanner. Icon rotates - the scanner is powered on but is not currently transmitting (STANDBY mode). Icon greyed out - this indicates that the scanner is currently powered off (OFF mode). Icon rotates and is then static - a power save mode is switched on and operating. AIS icon indicates the status of the AIS function: AIS unit not available i.e. not connected or off. AIS unit switched on and operating. AIS unit with active alarms. AIS unit switched on and operating but dangerous and lost alarm dis- abled. No status icons is present for GPS. Chapter 2: General Operation 13 2.6 Initial setup procedures When you first use your C-Series Display after it has been commissioned (see Installation Guide), we recommend that you carry out the following: •Set the language, the date and time preferred units of measurement. •Select a page set. •Select an application page/window. •Adjust the display lighting. Setting the language, date/time format and units of measurement Your C-Series Display can be set up with your preferred settings. These are made up of: •Select language. •Select an application page/window. •Setting the date and time. For full details of all system settings, please refer to Chapter 12:System setup and customizing. Setting the language, date/time format and units of measurement To adjust the language, date/time format and units of measurement: 1. Select the appropriate menu, using: MENU Position Made Lat/Lon... System Setup... Date/Time Setup... Alarm Setup... Units Setup... Highlight or change value to new setting, using: e.g. Date/Time Setup Menu Date Format mm/dd/yy OK Time Format 12hr dd/mm/yy Local Time Offset UTC or Change value as required 3. Repeat this process until you have changed all of these settings. Note: For full details of all System Setup options, please refer to Chapter 12:System setup and customizing. For application specific set up options, please refer the appropriate chapter. 14 C-Series Display Reference Manual Selecting a page set When you first power-on your C-Series Display after it has been commissioned (see Installation Guide), you are presented with the active window highlighted Soft keys associated with active window Changing the active window To change the active highlight to other windows on the page and display multiple windows ACTIVE Multiple windows 16 C-Series Display Reference Manual Multiple windows To display multiple windows To return to multiple windows ACTIVE Single window Multiple windows 16 C-Series Display Reference Manual To display the display the individual display on which you are working. Day/night operation To select the day/night mode of operation: Toggle as required The display saves the current palette when the unit is powered off. If the palette was set to NIGHT when it was last used, and you then power on in bright sunlight, it may be difficult to see the screen. Reset the palette to DAY to return to normal daytime lighting. Backlight level To adjust the level of backlighting: Adjust the display lighting To adjust the display lighting: 1. Select the appropriate menu, using: Setup Menu for the active Radar Setup... External equipment/ Compass Setup... instruments AIS Layer Status... System Setup... Alarm Setup... Display Setup... System-wide menus Databar Set... Select Page Setup... System Diagnostics... Remove CF Card For details of individual chapter. 2. Select item, using: Trackpad (up/down) or Rotary control 2. Select item, using: Trackpad (right) Trackpad (right) 2. 1 Backlight On Setup Menu Key Beep ON Backlight item, using: Trackpad (up/down) Trackpad (right) 2: 1 Backlight Display Setup Menu Key Beep ON Cartography Setup Menu Chart Detailed Chart On/Off Chart Text On Chart Boundaries On Detailed Chart On ON Safety Contour ALL Object Detail Contour ALL Nav. Marks ON Highlight or change value to new setting, using: Trackpad (up/down) or Rotary control 3. Edit item, using: Trackpad (right) 3. Repeat Steps 1 and 2 if necessary. Note: Character text can be entered in upper or lower case. 16 C-Series Display Reference Manual 2.7 Using CompactFlash cards What are CompactFlash cards used for? CompactFlash cards can be used to get the most from your display. They include: •Detailed cartographic information detailed cartographic information of the area that you navigate using Navionics® chart cards. To check the current availability of Navionics chart card types, please visit www.navionics.com or www.navionics.it. The amount of cartographic detail shown varies for different areas and for different scales. The chart scale in use is indicated in the status bar - the number represents the distance in nautical miles from the top of the chart window to the bottom of the chart window. •Archiving To archive waypoints, routes and tracks. •Saving To save waypoint, route and track data for use by other equipment e.g. a PC. You can remove and insert cards while a chart is displayed provided that you follow the correct procedure (see page 18). The chart information is retained on-screen until the chartplotter redraws the screen; for example, when you pan outside the current area, or use the RANGE button to change the chart scale. 18 C-Series Display Reference Manual Inserting a card and: 1.Check that you are using the correct type of card (see Important Information, at the beginning of this manual). 2.Open the chart card door, located on the front left of the display. 3.Insert the card as shown, with the lip of the card facing inwards. It should position easily. If it does not, DO NOT force it, but check the direction in which the lip is facing. 4.Gently press the card home. 5.To prevent the ingress of water and consequent damage, close the chart card door and press firmly until a click is heard. Narrow Groove Lip D7215 2 Removing a card ...with the unit powered on 1. Select the CF Card Removal function: MENU Setup Menu System Diagnostics... Remove CF Card Select Remove CF Card CF Card Removal You may now safely remove your compact flash card. Press OK or CANCEL when finished. IMPORTANT: If you try to remove a card without accessing the setup menu, a blue screen and warning message is displayed and the unit must be restarted. You must only remove the card while the CF Card Removal message is displayed. Once the message is closed, the card should no longer be removed. 2. Open the chart card door. 3.Grip the card and pull to remove it from its slot. 4.To prevent the ingress of water and consequent damage, close the chart card door and press firmly until a click is heard. 5.Press OK. ...with the unit powered down 1.Open the chart card door. 2.Grip the card and pull to remove it. 3.To prevent the ingress of water and consequent damage, close the chart card door and press firmly until a click is heard. 19 Chapter 2: General Operation 19 2.8Managing data This function explains how you can manage the data contained in your C-Series and includes the following: •Writing/editing to a CF card. •Erasing information from a card. •Erasing information from your system. Prevent When it is therefore essential that before removing the card you follow the correct procedure to stop access to the card. What are CompactFlash cards used for? CompactFlash cards enable you to get the most from your display. Their uses include: •Detailed cartographic information detailed cartographic information of the area that you navigate using Navionics® chart cards. To check the current availability of Navionics chart card types, please visit www.navionics.com or www.navionics.it. The amount of cartographic detail shown varies for different areas and for different scales. The chart scale in use is indicated in the status bar - the number represents the distance in nautical miles from the top of the chart window to the bottom of the chart window. •Archiving To archive waypoints, routes and tracks. •Saving To save waypoint, route and track data for use by other equipment e.g. a PC. You can remove and insert cards while a chart is displayed provided that you follow the correct procedure (see page 18). Writing and retrieving data To write and retrieve data to a CompactFlash card for safe-keeping and archiving. Alternatively, you can transfer data to another instrument or PC using NMEA. When navigation is active, you can also receive waypoints, routes and tracks from a PC, SeaTalk and NMEA instruments (see page 22). Instructions Raymarine strongly recommend that you save data to a separate CompactFlash card and not to a Navionics card containing cartography. 1. Insert card and select the SAVE TO CARD function: DATA ARCHIVE AND SAVE TO CARD Function ROUTE LIST 1 SELECT LIST Route 1 WPT WPT TRK Route 3 Route 3 Toggle to required list Contents for selected list displayed 3. Define data for saving by saving To save all items in list to card: SAVE ALL Save Route To save individual items: or e.g. Follow on-screen instructions ROUTE LIST SAVE ROUTE to remove card Route 2 Route 3 Highlight item for saving retrieved. Chapter 2: General Operation 21 To retrieve all selected database items: RETRIEVE ALL Or Retrieve Route To retrieve individual items: e.g. Follow on-screen instructions ROUTE LIST RETRIEVE ROUTE Route 1 Route 3 Highlight item for retrieving If whilst retrieving information a selection is already found to exist on the system, a warning message will appear. The soft keys will change to give you the options of retrieving as new, replacing or cancelling the retrieving process Erasing information from a card If you have data stored on a card that you no longer require, you can delete the item(s), before it takes place. 1. Insert the card and select the ERASE FROM CARD function: DATA ARCHIVE AND ERASE FROM TRANSFER CARD Function ROUTE LIST SELECT LIST Route 1 WPT WPT TRK Route 2 Route 3 Toggle to required list Contents for selected list displayed 3. Define data to be deleted: 22 C-Series Display Reference Manual To delete individual items: e.g. Route 1 Route 2 Route 3 Highlight item for deletion Sending and receiving information using a PC You can transfer waypoints and routes via a PC or using another instrument or PC using NMEA. With a RayTech 6.0's planner you can transfer waypoints and routes via a CF memory card. Such transfers require that the PC be connected to the display's NMEA port via a serial data cable. To transfer or receive information: 1. Select the function: DATA ARCHIVE AND TRANSFER function TRANSFER NMEA... 2. Press the appropriate soft key to send or receive NMEA: SEND WPTS ON RECEIVE ON NMEA STOP TRANSFER NMEA 2 - D6808 Note: If you wish to stop the transfer at any point, press STOP TRANSFER. 3. When transfer is complete, STOP TRANSFER and exit the soft keys engaged. Chapter 2: General Operation 23 Password protecting your waypoints If you require, you can prevent access to, modification and sight of your waypoint and route databases and functions by means of a password. Password Protection is enabled and you are attempting to access a password protected function for the first time during a power-cycle, the system will request confirmation of your password before you can: •Access WPTS key functions. Those not affect the operation of the MOB function. •Access ROUTES key functions. •Create a route from a track. All other track functions are unaffected. •Archive or transfer any waypoints. •Enter the Waypoint Password Setup menu. •Enter the Waypoint Password Setup menu. When navigation is active, you can also receive waypoints, routes and tracks from a PC, SeaTalk and NMEA instruments (see page 22). When Password Protection is set to ON or OFF. Disabled data/functions When Password Protection is ON and you have not entered a password you will be unable to: •View details of waypoint and route databases. •Edit waypoints or routes. •Goto an existing waypoint. •Follow a route. •View waypoints on screen (even when the SHOW/HIDE status is set to SHOW). •View waypoint names on screen (even when WAYPOINT NAME is set to ON). All other options including GOTO CURSOR are unaffected. Setting up a password 1. Select Waypoint Password: Setup Radar Status... System Setup Menu MENU GPS Status... Compass Setup... System Integration Waypoint Password Setup System Setup Menu GPS Status... Compass Setup... Highlight required Waypoint Password Setup System Setup Menu Highlight required System Setup Menu 24 C-Series Display Reference Manual 2.The Enable Password status to ON, read and accept the warning: Setting Password Protection required a password to access your waypoint and route databases. If you forget your password you will lose your waypoints and routes May the Password recommends that you write/store your waypoints and routes Do you want to continue? YES and/or: Add a hint to help you to remember your password(optional): e.g. Edit Password Carrot Confirm Password Carrot Hint: Rabbit Choose a word that will help you to remember your password to remember your password and/or: Enter a password and/or: Repeat to confirm (1-16 characters) the password D8957_1 Note: The password is case sensitive. 4. Add a hint, to help you to remember your password (optional): e.g. Edit Password Carrot Confirm Password Carrot Hint: Rabbit Choose a word that will help you to remember your password (optional) YES recommends that you write/store your waypoints and routes Do you want to continue? Read and accept the warning The password hint will be displayed whenever you want to change the status of the Password Protection in the future. The details of all waypoints, irrespective of the group(s) they are stored in a dedicated waypoint list which will hold up to 1000 waypoints. All waypoints are by default, placed in the MY WAYPOINTS group. If required, you can create new groups and change the default group. If necessary, waypoints can be archived to a CompactFlash card or transferred to another NMEA compatible instrument. If the system receives an active waypoint from SeaTalk or NMEA, it is displayed but cannot be edited. If required, you can prevent access to, modification and sight of your waypoint and route databases and functions by means of a password. For more information see page 23. 30 C-Series Display Reference Manual 3.2 How are waypoints represented? Waypoints on CDI windows On CDI windows, a waypoint is represented only when it is active (displayed in a box). 30 C-Series Display Reference Manual Chapter 3: Working with Waypoints 29 Chapter 3: Working with Waypoints This chapter gives details of how to place, edit, manage and navigate to a waypoint. 3.1 What is a waypoint? A waypoint is a position marked on a chart, radar or fishfinder window to indicate a site (for fishing, diving etc.) or as a place to navigate to. By default, all waypoints are indicated on screen by a waypoint symbol (x). If you wish, you can select an alternative symbol to be used as the default waypoint symbol. The details of all waypoints, irrespective of the group(s) they are stored in a dedicated waypoint list which will hold up to 1000 waypoints. All waypoints are by default, placed in the MY WAYPOINTS group. If required, you can create new groups and change the default group. If necessary, waypoints can be archived to a CompactFlash card or transferred to another NMEA compatible instrument. If the system receives an active waypoint from SeaTalk or NMEA, it is displayed but cannot be edited. If required, you can prevent access to, modification and sight of your waypoint and route databases and functions by means of a password. For more information see page 23. D8930_1 Waypoints on Fishfinder windows When a waypoint is created it is represented on fishfinder

windows, by a vertical line labelled WPT. This symbology cannot be changed. WPT WPT Chapter 3: Working with Waypoints 31 3.3 Placing a waypoint A waypoint can be placed at: •The cursor position. •Your vessel's position. •At a position of your choosing (using lat/lon or Loran TD coordinates between 800 N/S). When you are placing a waypoint, you can either accept the default or customize its details. For more information see page 34. Once a waypoint has been placed, you can view its details and edit them (if necessary). For more information, see page 33 and page 34. ... at the cursor OK WPTS WAYPOINT At Or MOB CURSOR Wait 4 secs Move cursor to required position for waypoint Accepts default ... at your vessel's position WPTS WAYPOINT AT OK MOB VESSEL Or Or WPTS x2 Wait 4 secs MOB Accepts batozoini If the system cannot determine your position, a warning is displayed and the waypoint is not placed. ... at a known position WPTS WAYPOINT AT Place Waypoint Position: OK MOB LAT/LON... 50 50'.838N 01o06'.331W Enter position x 2 32 C-Series Display Reference Manual 3.4 Navigating to a waypoint This section explains how to start and stop navigating to a waypoint. When you navigate to a waypoint or to the cursor position, the data is sent on NMEA 0183 and SeaTalk and can be used by an autopilot, if connected. For more information on navigation, see page 56. Start navigating to a waypoint You can navigate to a waypoint using the cursor, via the WPTS MOB button or by selecting the GOTO option. Once navigation is active, the waypoint symbol is surrounded by a box and a dashed line appears between your boat and the waypoint. If required you can display navigation details for the active waypoint in the data bar (see page 180). ...using the cursor To navigate to a waypoint using the cursor, when a chart or radar application is active: GO TO WAYPOINT WPT Position cursor over waypoint to go to. ...via the WPTS MOB button To navigate to a waypoint using the WPTS/MOB button when any application is active: WPTS/ GOTO WAYPOINT Waypoint List GOTO WAYPOINT MOB OPTIONS ... Select required waypoint .... by selecting the GOTO option You can navigate to a waypoint using the GOTO option when a chart application is active and the top level chart soft keys are displayed: GOTO WAYPOINT OPTIONS... Waypoint List GO TO ... Or GOTO WAYPOINT GOTO CURSOR 2 Select required waypoint _ D7503 Chapter 3: Working with Waypoints 33 Stop navigating to a waypoint If at any time you wish to stop navigating towards the selected waypoint: WPTS/ GOTO WAYPOINT GOTO WAYPOINT STOP GOTO MOB WPTS/ STOP GOTO MOB OPTIONS... OPTIONS... STOP GOTO STOP GOTO -1 D7505 WPT WPT Position cursor over Position cursor over active waypoint. active waypoint. Once navigation is no longer active, the waypoint symbol returns to its normal unboxed state and the dashed line between your boat and the waypoint is removed. 3.5 Viewing waypoint information You can view the details of any waypoint that you have placed, by either selecting it with the cursor (in radar and chart windows) or by selecting it on the waypoint list. Once you are viewing a waypoint's details, a variety of editing and managing options are available. You can also display navigation details for the active waypoint in the data bar (see page 180). ...using the cursor To view the details of a waypoint that is not active. Edit Waypoint OK EDIT WAYPOINT WPT Waypoint details displayed To exit way- Position cursor point list over waypoint Note: Details of the waypoint that you are currently navigating to, can be accessed via the waypoint list as described below. ...using the waypoint list The waypoint list shows all the waypoints that have been placed (including the active one), and displays details of the selected waypoint: Note: Temperature and depth are only captured (if available) for waypoints placed at your vessel's position. 34 C-Series Display Reference Manual D6560-2 To access the waypoint list: WPTS/ Waypoint List REVIEW AND EDIT OK MOB WAYPOINTS... Select required waypoint To exit way- point list 3.6 Editing a waypoint Once a waypoint has been placed it can be edited in a variety of ways. You can: •Change the waypoint details - name, symbol, group or add a comment. •Move a waypoint. •Erase a waypoint. •Change the default symbol and group of newly placed waypoints. D6561-2 Chapter 3: Working with Waypoints 35 Changing waypoint details When a waypoint is created it is assigned a default name, symbol and group. You can change these details to suit your needs and add a comment if required. This is particularly useful when you are managing large numbers of waypoints. To change the details of a waypoint: 1. Select the detail you wish to edit: Edit Waypoint WPT VIEW AND EDIT Or DETAILS Waypoint List Highlight field for changing Select required waypoint with cursor or via waypoint list 2. Edit the selected detail: Repeat for other fields, if necessary e.g. Edit Waypoint EDIT SYMBOL OK OK Soft key reflects Edit details as required using: To SAVE To save and highlighted field Soft key , and/or exit editing Note: If you make a mistake whilst editing, press CANCEL. Moving a waypoint You can move any waypoint (except the active one) to a new position. There are two methods of moving a waypoint: ... by entering new coordinates If you know the new co-ordinates, bearing or range for the particular waypoint, you can enter this information by editing the waypoint as described in the previous section. ... by dragging the waypoint to a new position MOVE WAYPOINT WPTWPT PLACE WAYPOINT WPT Select waypoint Drag waypoint -1 for moving to new location D8288 Note: To abandon the move, press CANCEL. 36 C-Series Display Reference Manual CAUTION: It is possible to move waypoints that are used in routes. In such instances, the stored route will include the Waypoint in its new position. Ensure that this does not present a navigation hazard. Erasing a waypoint(s) You can erase any waypoint on the system (including groups of waypoints) except: •The active waypoint or •Any waypoint used in a route. Notes: (1) If a route is hidden its waypoints can still be displayed.If you attempt to erase a waypoint from a hidden route, a warning message will be displayed. (2) For details of erasing groups of waypoints, see page 41. Erasing an individual waypoint You can erase individual waypoints on screen or via the waypoint list. ...using the cursor WPT Confirm the pop-up Select waypoint message for erasing ... using the waypoint list 1. Select the waypoint for erasing from the waypoint list: WPTS REVIEW AND EDIT Waypoint List MOB WAYPOINTS... Select waypoint for erasing 2. Erase the selected waypoint:

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