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Jrc radar manual

Please note the following precautions when operating your RADAR 1500 MK@ LCD radar: Read this manual carefully to understand its capabilities and usage. Store it in a safe place, away from children and pets. Handle electronic equipment with care and follow standard storage procedures. If you encounter any issues after installation, contact your JRC sales or service representative for assistance. Looking forward to seein everyone at the meeting tomorrownightTX-Plan TX peri-od all 10 20 30 scans stby peri-od 3 5 10 15 min tune auto manualinitial set up menu relative bearing alignment display timingtune presetstc presetbuzzer volume on or offoper. Prompts language@ offset key - to shift own ship on screen.Ⓣ contrast/dimmer key - sets lcd contrast. · Sets back light for lcd and panel illumination. Page 552.1 control panelⓂ stand-by/off key - turns on power to display and scanner and activates 90 second count-down timer. · Press stby/off key to go into stand-by mode while in the transmit mode. · Press stby/off and x-mit/off keys simultaneously to turn radar off.Ⓜ transmit/off key - turns transmitter on and activates radome. · Press stby/off and x-mit/off keys simultaneously to switch off theradar.Ⓜ j-dial - push repeatedly to select range, sea, rain, gain, tune controls.rage increases or decreases the range scale in use.sea reduces sea clutter.rain reduces rain or snow clutter.gain controls strength of returned echoes.tune manually fine tunes receiver by peaking tuning bar (no tuningbar in auto tune). · Sea, rain, gain, tune, vrm, ebl, contrast can be user-set for best efficiency.Ⓜ ebl/vrm key - activates ebl or vrm on the display. A short press will turn on/off selected ebl/vrm. Press and hold, to select and control the desired ebl or vrms by rotating the j-dial.Ⓜ joystick - position cursor setting. · Enables menu for setup and selections.operating menu guard off onrings on offposition off/l/ td waypoint off onbearing rel mag true names and functions of the componentsPage 6vrm/ebl keydisplay unitj-dialjoystick with menuperawer input/mea/compassconnectorinter-unicconnectorlatchoffset keycontrast/dimmer keytransmit/off keystand-by/off keydisplay unitfig. 2-1 display unitnames and functions of the components Page 7page 8234.2 turning the radar on and offto turn on press the stby/off key.to transmit press the x-mit key to stand-by press the stby/off key and the x-mit/off keys simultaneously.when youpress the stby/off key, a 90 second warm-up count down timer is activatedand displayed together with the total (display unit) usage to date.press the x-mit/off key, the radar transmits, the scanner begins to rotatand echoes will appear on the screen.press the stby/off key, the radar returns to stand-by mode to reducembattery drain. The rotator stops.press the x-mit/off key again, the radar reverts to full transmitting function.these sequences are also guided by on-screen prompts.operating90 sec0000hoursvx.xpush xmit: to operate page 9trail "on"guard zone alarm "on"own ship speed data selecting j-diallevel indicator tune indicatorown ship course datainterference rejection "on"target expandercapacity display rangesscale position data navigation data page 10254.3 selecting a rangepress the j-dial until range is highlighted in the upper right corner ofthe display. The range scale and range rings setting in use is shown in the upper leftcorner. Rotate the j-dial clockwise to increase the rangeand anti-clockwiseto decrease it. The range rings are automatically set to correspond with this selection.4.4 adjusting receiver sensitivitypress the j-dial until gain appears highlighted in the upper right corner ofthe display. rotate the j-dial clockwise or counterclockwise, to vary the gain and thus control the strength of echo returns on the radar screen. an on-screenbar indicates 1. Gain level selected, proper setting visible on screen as light speckled effect. 4.5 Adjusting tuning - press J-DIAL until tune highlighted at upper right corner of display, rotate clockwise/counter-clockwise to maximize target echo. If no large target in range, select SEA CLUTTER and turn control to maximum, use echoes from wave crests to adjust tuning bar for fullest deflection. 4.6 Automatic tuning - radar tunes itself for best efficiency at all ranges. 4.7 Reducing sea clutter - press J-DIAL until SEA highlighted, rotate clockwise/counter-clockwise to vary sea clutter control. 4.8 Adjusting rain clutter - press J-DIAL until RAIN highlighted, rotate clockwise/counter-clockwise to vary level and control strength of echoes returned from rain/snow. 4.9 Setting LCD contrast - press CONT/DIM key and rotate J-DIAL clockwise/counter-clockwise to change display contrast. 4.10 Setting dimmer - press CONT/DIM key to vary back light intensity, two settings: ON/OFF. 4.11 Range measurement - count range scale rings in use, add estimated distance between target ring and inner edge of target. 4.12 Setting 1/4 offset - press OFFSET key to expand display area, return to normal by pressing key again. 4.13 Setting VRM mode - press EBL/VRM key, change to VRM mode if EBL highlighted, rotate J-DIAL clockwise to increase range. 4.14 Setting auto/manual tuning - radar can be tuned automatically or manually. TUNING is selected, and an indicator for tuning bars appears. In AUTOTUNE mode, the radar will automatically adjust itself for optimal reception whenever it's turned on, regardless of any changes to ranges. If unusual conditions arise during operation, follow these steps: simultaneously press the STBY/OFF and X-MIT/OFF keys, then reset all settings except the initial ones set through the "INITIAL SETUP" menu. When using SART signals, ensure thorough visual monitoring of the surrounding sea area to avoid collisions or stranding. If multiple radar systems are installed, use another system as an ordinary radar for object detection and own-ship position checking. After completing these steps, retune the set for normal operation. This section provides instructions for service technicians on the RADAR 1500 MK2. Although designed for trouble-free long-term operation, environmental factors may require periodic servicing. The equipment contains high voltage and requires specialized tools and procedures only available to qualified technicians. Do not attempt to remove the radar unit cover or service this equipment without proper training. For continuous satisfactory operation, follow these maintenance tips: keep the equipment clean by removing dirt, dust, or spray from the display and scanner; inspect the system during routine ship's maintenance for signs of corrosion or loose connections. Clean as needed, ensuring secure cable connectors. Clean the exterior of the scanner with fresh water, but avoid immersion. Regularly wipe the face of the display unit with a soft, lint-free cloth and fresh water to maintain optimal performance. The provided text contains various sections and subsections detailing the maintenance, usage, and specifications of a radar device. Here is a paraphrased version of the main points: ###MAINTENANCE Before replacing a fuse, check its associated circuits for potential issues. If necessary, replace the 5A fuse in the power cable to ensure proper functionality. ##WARRANTY REGISTRATION Fill out the warranty registration card located at the front of the manual and return it to the nearest JRC service center immediately after purchase to receive full warranty benefits. ###SPECIFICATIONS The device's maximum range is 16 nautical miles, while the minimum range is less than 25 meters on the 0.125 nm scale. The display device features an LCD with a 115 × 86.4 mm screen size and has accuracy specifications for range ring, bearing, and environmental conditions. ###OPERATION To operate the device, follow the guidelines outlined in sections 2-9, which cover the control panel layout, turning it on and off, selecting a range, adjusting receiver sensitivity, tuning, reducing sea clutter, and setting LCD contrast and dimmer. 264.10: Setting Up Offset Mode To set up offset mode for setting a quarter offset, follow these steps: 1. Use the cursor to move it on the screen by pressing the JOYSTICK. 2. The cross mark can be moved in any direction using the JOYSTICK, and the range and bearing will be displayed at the lower right corner of the display. 4.12: Measuring Bearing There are two ways to measure bearing: 1. Using the bearing scale: * Visually estimate a line from the center of the display (ship's position) projected through the center of the target, to reach the bearing scale around the perimeter of the display. * The bearing you obtain is the target's relative bearing in degrees. 2. Using EBL: * Press the EBL/VRM key to switch to EBL mode. * Rotate the J-DIAL clockwise or counterclockwise to move the electronic bearing line to cut the center of the target. * The target bearing (in degrees relative to the ship) appears at the top center of the screen. 4.13: Operating Menu To access the menu, press the JOYSTICK to access the first menu sheet. Then, use the JOYSTICK to select a particular menu and open up the sub-menu. Pressing the JOYSTICK again will return the display to normal video presentation. 4.14: Setting Guard Zone The guard zone alarm is effective for alerting the operator to targets approaching their own ship. To set up the guard zone: 1. Press the JOYSTICK to display the menu sheet. 2. Select GUARD-ON and press the JOYSTICK. 3. Move the cursor to the desired guard zone start point using the JOYSTICK, then press it again. 4. Next, move the cursor to the desired guard zone width point and press the JOYSTICK control. 5. Finally, move the cursor to the end point of your guard zone and press the JOYSTICK control. To turn off the GUARD function, select GUARD-OFF on the menu sheet. Page 24314: Setting Ring Options The range rings can be turned on or off via this menu option. 4.16: Position Display Select this option to display the ship's position (derived from a navaid input). This function allows selection of ship's position in latitude/longitude (LL), time difference (TD) position, or waypoint display. 1.19 TRAILING This feature allows the operator to see the past history of target movement as an after-glow, or trail behind moving targets. The "glow-time" of these "trails" and - hence - the amount of display time which they occupy, can be set to "short" or "long." 1.20 OPERATIONCongratulations on selecting the JRC RADAR 1500 MK2 LCD system to assist with your navigation. Whether you purchased this radar because of its compactness, power economy, ease of installation, or long term reliability, one thing is certain, the moment you turn on your RADAR 1500 MK2 Display you will know that you are seeing a revolutionary new concept in radar technology. You are the proud owner of a radar system unmatched in the marine recreational industry. Radar signals are stored on an LCD display with excellent graphic clarity and detail. A single glance at your Display will give you a complete and accurate 360° radar picture of other vessels, buoys and land surrounding your vessel. Liste des modèles commençant par cette lettre : la lettre :

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