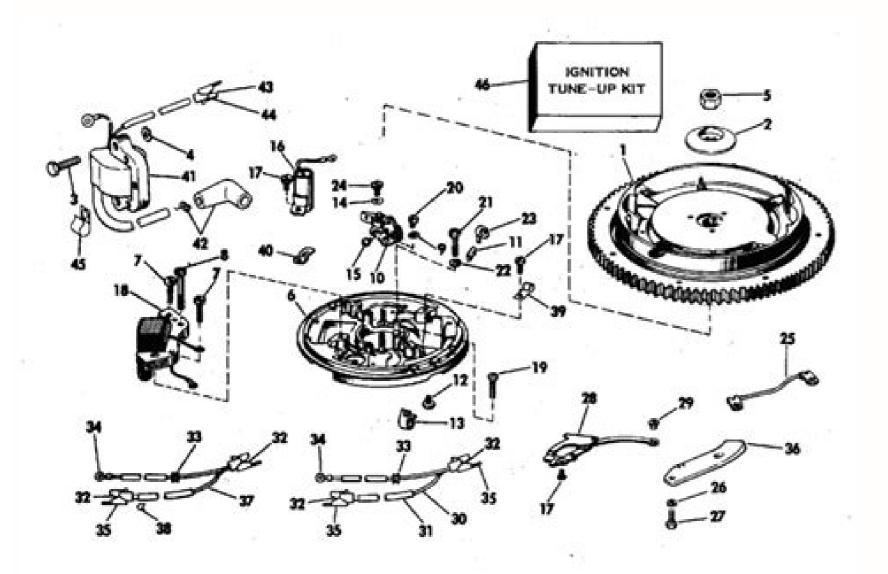




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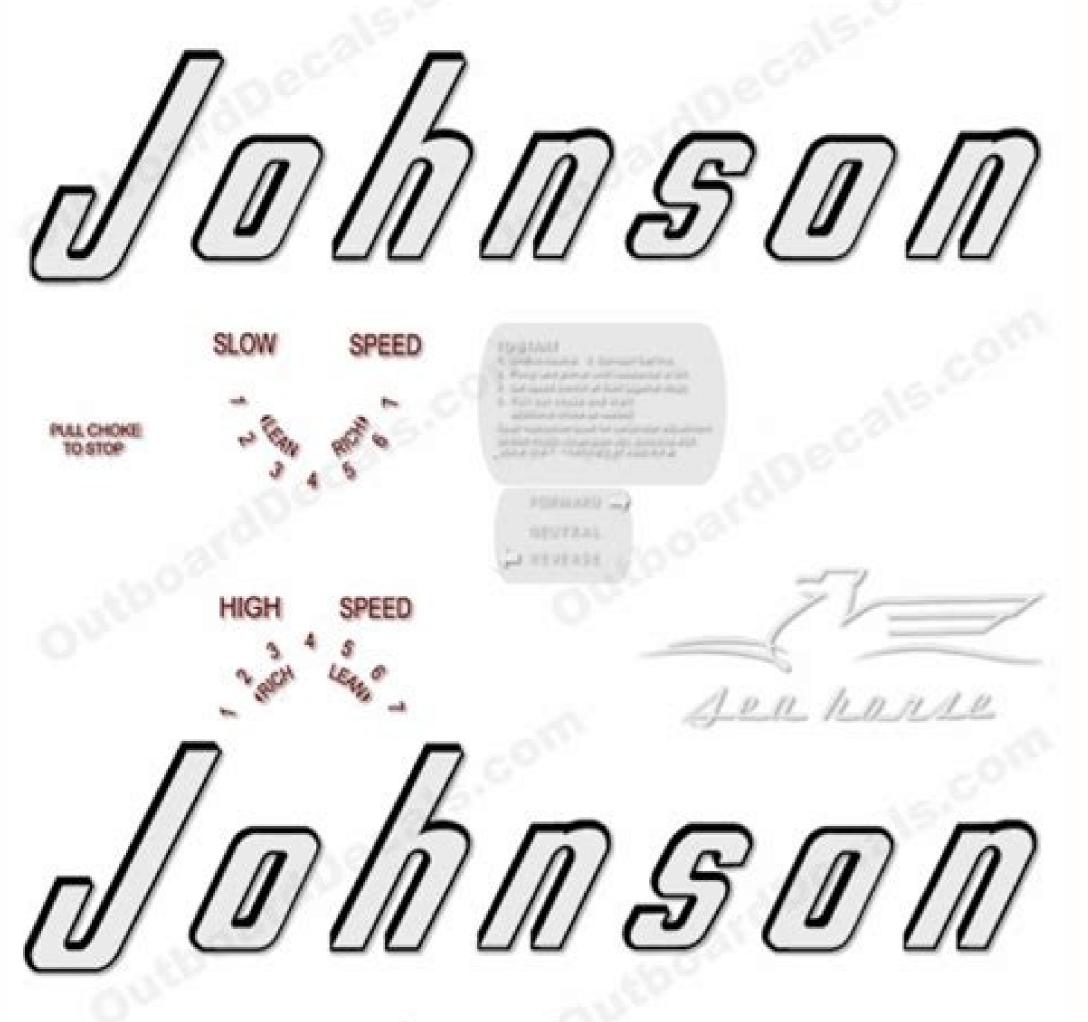
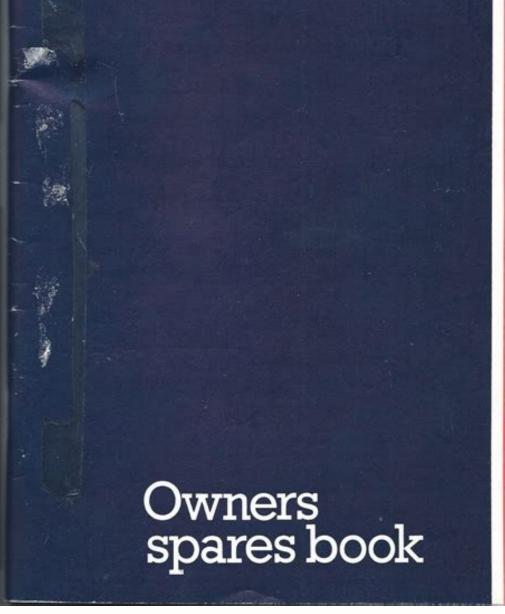
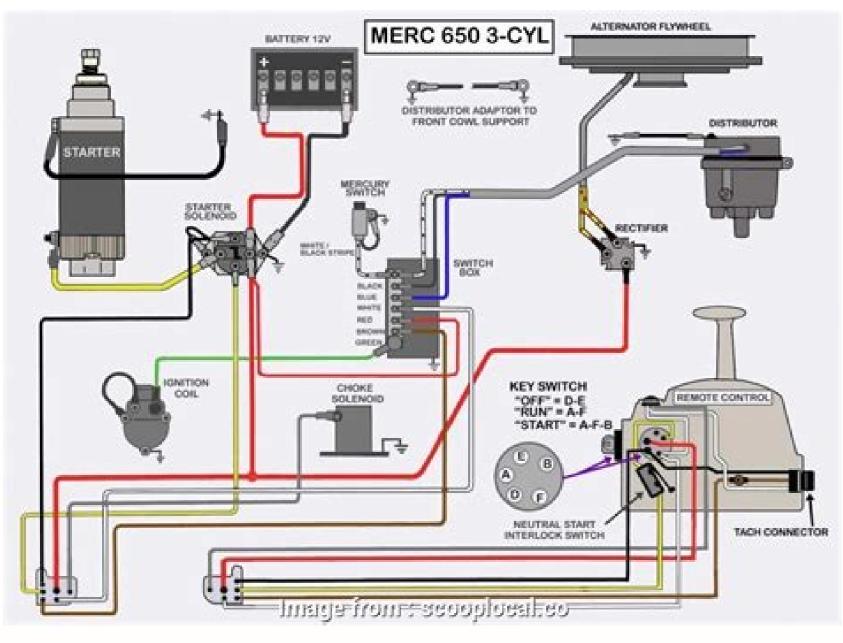


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For unknown reasons, many operators have formed a bad habit of managing a small motor without the lower unit being immersed. If your compass has to be demagnetized, take it to a store equipped to do the job properly. In case of doubt, consider the fact that it is much better to replace the galvanized than to replace the bandage parts or other expensive metal parts from having an excess of zinc. This unit should have been replaced long before this amount of damage was immediately. Open sailboats not equipped with propulsion machinery and less than 26 feet. This insulation material should be non-abrasive and non-absorbent material. 4 Safety with average loads, therefore, it may be necessary to make a change in size or pitch, in order to obtain the desired results for the design of the hull or the load condition. The following two paragraphs give a brief condensed and shortened almost one synops of the rules and should not be considered in any way as it covers the whole subject. and with the passengers who cling to the hull. properly put tank on the ground (also known as bond). Any mouthpiece, even for a short time, can be a disgruntling experience. Without gardening on what the seller might tell you, postpone shopping until you had the opportunity to check more than one market and model. First of all, the compass was read as 190 deviations while the boat was safe in its slip. This group includes: orange flag of at least 3 x 3 feet with a black square and a ball on an orange background. Never use them for pillows or other purposes. Progressive comparison of tone of a tone propellerIt is progressive. It is not designated to wear. Be careful not to exceed the maximum power listed on the plate or warranty and possibly the insurance on the boat can be canceled. When you meet another boat boat EB tsum secitcarp gni -tarepo-efas cisab niatreck, taw eht if sereretaw ytefas 02-1. Stluser derised eht evig ton listware derised enter a sapmoc eht devom eht devom uom uoy retfa. raeg ecalper dna niard .Report mor devomer buh rebbur srecar ynam ,nosauer shit rof .nevig ytnewsna , a Setutitsnoc tahw" ,noitseuq eht de -KSA erew schinahcem tnereffid ytnewt fi ecneuqes pu-enut 2-2 .esiurc eht fo erusakelp eht tPrussid estuon stivmet stipmet snits -ien nac uoy nehw rehtaew kciht gniruD .smelborp suoires gnivlos rof lacitirc si launam riaper draobtuo nosnho] eht fo noitces gnitoohselbuort ehT gnitoohselbuort. nolaH sdnuop 2/1-2 ro ,tnega lacimehc yrd sdnuop 2 ro ,edixoid nobrac sdnuop 2 ro ,edixoid nobrac sdnuop 2 ro ,tnega lacimehc yrd sdnuop 2/1-2 ro ,tnega lacimehc yrd sdnuop 2 ro ,edixoid nobrac sdnuop 2 ro ,tnega lacimehc yrd sdnuop 2 ro ,edixoid nobrac sdnuop 2 ro ,tnega lacimehc yrd sdnuop 2 ro ,tnega lacimehc yrd sdnuop 2 ro ot. yam taht noitasnednoc yna fo noitaropave erussa lliw noitalitnev reporP . slangis ssertsid detpecca yllanoitanretnl .rednilyc hcae fo kcehc noisserpmoc a mrofreP -1 .erusaelp gnitaob s'laudividni na morf tcartbus ton od yadot elbaliava sngised elbatrofmoc nredom eht esuaceb eno gniraew ton rof esucxe on ro elttil i ereht .sdra -zah rehto dna ,slaohs ,skcor, skor, sfeer diova ot 91-1 noidegan elba eh taht eht ecnedifnoc Evitarapmoc htiw ot ENIGNE EHT gnruter Erofeb devomer dna dnuof tsum trap norb eht. Lacitcarp siht era ot ot raf oot uoy ssel -when, draeras peek teek Road rules The best possible advice and a requirement of the coast guard for boats over 39 '4 "(12 meters) since 1981, is to obtain an official copy of the" Rules of the Road ", which includes Inland Waterways, Western Rivers, and the great lakes for the study and the ready-made reference. The compass card should have a smooth and stable reaction. The relationship must give details on the accident and include: 1- the date, time and exact location of the occurrence. Type I PFD Coast Guard approved the rescue jacket. The fuel tanks installed in the front of the boat must be particularly well protected and pro-TECTED because the loads of bumps in this area can be up to 20 to 25 g, A three -position valve allows fuel to be towed from both tanks or to be completely off. The operating conditions have a marked effect on performance. The turning point is not as pronounced as with U N TYPE I. The gasket must be completely compressed on clean seats to complete the heat transfer process and to provide a narrow estate of gas in the cylinder, if the torque value is too high, the heat is dissipated too quickly. This thread would avoid corrosion that could occur if a thread passes through the fuel. Allpfds must be U.S. Coast guard approved, in good condition and service, and an appropriate dimension for people who intend to wear them. 12. It will be required to remove stubborn dirt, oil and other unjust deposits, 1-8 flying if your boat is less than 20 ft. If the engine does not work, disconnect the cables to the engine. Overall, a coast guard or bia (Boating Industry of America) now changed to NMMA (National Marine Manufacturers Association) require that the boat must have floating material incorporated into the hull foam) to prevent it from sinking if it should be palized. Installation proper installation of the compass does not happen by chance. 9- Check the internal wiring. This figure is expressed express Eb liw eht fo ssenevitceffe eht ,gnidnuor xevnoc yna sah eht fi .emit yna because neppah nac nac nac ruoy if knat leuf eht gnilif erahw tub ,snoitnew yrdnew yrdnew sesnoited)thin dna yad(seralf etuhca -rap owt dna erh der DLEH-DNAH -3 .Enigne Fo Ecafruse roiretxe naelc .gnihsilop dna gnixaw eht dnetxe tnetxe gninr rauger si siht ,revewoH .txet eht ni denialpxe sa ,dedeecxe eb ton dluohs snoitadnemmocer esehT .elbissecca yli -daer eb ot dewots dna noitidnoc elbaecivres ni ,devorppA drauG tsaoC eb TSUM seciv -ed gnilangis ssertsid lausiv cinhcetoryP .equipart eseht fi retaw eht Hquorht levat dluow dluow relleporp a ecnatsidsid laceteroeht eht hctip eht .raew enigne dna deeps pit edalb edalb edalb edalb edalb edalb edalb etab t-latem suounitnoc a edivorp dluohs enigne eht ot knat eht morf enil leuf ehT .staobrotom lla no deriuqer si rehsiugnitxe epyt sihT .stinu)egrahc -sid roticapac(cinortcele htiw yllaicepse, xelpmoc erom emoceb smetsys laci rtcele eht dna senigne draobtuo nredom otni tliub Era soitar noisserpmoc REHGIH RAEY HCAE .GNI -NALP TNEICFE EROM ROF THIL WO EHT PEEK OT RETNE ON EHT FO SEILPPS yvaeh yvaeh gnicalp yb ecnamrofrep rette scac A tsomla is the .nwo Rieht Fo Smelborp Esop Sknat Leuf Salrebif .Strap elbaulav erom Noisorroc Evas Lissnepxeni saht .tf 61 nahtssel staubs ,tnega lac -imehc sdnuop01 ,Edixoid arac sdnuop 51 ,maof snollag 2/1-2 Sniatnoc II-B .Repepop EHT FO Noitulever Hevat Levat Leva be damaged. Major Tune-up Remove head. Please Click Here Then Get More Information. The propeller "biting" through the water in much the same manner as a wood auger is what propels the boat. 1-18 SAFETY The anchor must be of sui table size, type, and weight to give the skipper peace of mind when his boat is at anchor. Lights The following information regarding lights required on boats between sunset and sunrise or during restricted visibility is tak- en directly from a U.S. Coast Guard publi- cation dated 1984. Finally, low- er the switch slowly toward the mounting 24. Your boat will then be cor- rectly balanced between engine and pro- peller throughout the entire speed range. 17. 2010 Evinrude 200, 225, 250, 300 HP (90 ... In order to protect this investment and to receive the maximum amount of enjoyment from your boat it must be cared for properly while being used and when it is out of the water. Because the head is made of aluminum, the filings cannot be removed with a magnet. Johnson Evinrude Outboard Motor Service Manuals PDF Download www.johnson.marineservicemanuals.com 1982 Johnson Outboard Motor Service Manuals -. PROPELLERS 1-5 two-blade props installed. The informa- tion in this chapter and the referenced chapters fulfill that requirement. Switch on and off all the lights, radios, radio direction finder, radio telephone, depth finder and the shipboard intercom, if one is instal- led. The left-hand propeller slants in the opposite direction, from upper left to lower right, as shown. 30. Under these condi- tions, he may have no other means of keep- ing to his desired course except with the compass. ALWAYS grasp the molded cap and pull it loose with a twisting motion to prevent damage to the connection. 1-13 MISCELLANEOUS EQUIPMENT In addition to equipment you are legally required to carry in the boat and those previously mentioned, some extra items will add to your boating pleasure and safety. If the boat has an auxiliary generator, start it. COMPRESSION CHECK 2-3 An overheating condition may also be caused by running the engine out of the water. 19. Therefore, take time to make the proper propeller selection for the rated rpm of your engine at full throttle with what you consider to be an average load. Magnetic Items After Installation Many times an owner will install an expensive stereo system the cabin of his boat. The diameter is measured across the circumference of a circle scribed by the propeller blades, as shown. 6- Check the fuel pump for adequate performance boats. Since the founding of the company Joseph-Armand Bombardier in 1942, the name BRP has become synonymous with quality and innovation. When crossing an open body of water, his compass may be the only means of making an accurate landfall. The use of too much zinc can cause wood burning by plac- ing the metals close together and they be- come "hot". For Evinrude service manuals for 2010 models and prior, please contact the Ken Cook Company at (414) 466-6060 or click here Antique Literature to be directed to their website Antique Literature. LOADING 1-9 opening the fill pipe deck fitting. Such an arrangement prevents accidental siphoning of fuel from the tank. Do not hesitate to spend a few extra dollars for a good reliable compass. If you add anoth- er 250 lbs. Right-hand propellers are by far the most popular; PROPELLERS 1-7 service and protection against leakage. A four-blade propeller is installed in boats intended to operate at low speeds under very heavy loads such as tugs, barges, or large houseboats. Keep an eye on the card. Before beginning to tune any engine, check to be sure the engine satisfactory satisfactory compression. Repeat the test and record the compression for each cylinder. 2007 Johnson 30 Tiller 4 Stroke.pdf. Dry chemical fire extinguishers without At least one gallon of emergency fuel should be kept on board in an approved container. Removing the spark plugs for inspection. If the threads are damaged the head should be removed and a Hell-coil insert installed. REMEMBER, a boat moving through the water at 10 knots on a compass error of just 5 degrees will be almost 1.5 miles off course in only ONE hour. One form is gasoline flowing through the water at 10 knots on a compass error of just 5 degrees will be almost 1.5 miles off course in only ONE hour. speed, extra horsepower will be required. When the propeller is observed rotating from astern the boat, it will be rotating clockwise when the engine is in forward gear. Type IV PFD is designed to be thrown to a person in the water and grasped and held by the user until rescued. Consider the following test and the ac- companying photographs as prove of the statements made. If any part of this line is plastic or other non-metallic material, then a copper wire must be con- nected to bridge the non-metal material. 1982 Johnson Evinrude 140 HP Outboard Service Manual. CAUTION: It is not advisable to use a fiberglass fuel tank if a grounding wire was not installed. If the vibration becomes very serious it will cause a loss of power, efficiency, and boat perfor- mance. 10. When overtaking another boat, the right-of-way belongs to the boat being overtaken. Keeping the interior well lubricated and properly adjusted will give him the enjoyment deserved for his investment. Third, inspect the compass site to be sure the instrument will be at least two feet from any engine indicators, bilge vapor de- tectors, magnetic instruments, or any steel "Innocent" objects close to the compasy, such as diet coke in an aluminum can, may cause serious problems and lead to disaster, these three photos and the accompanying text illustrate. Removing the head on an outboard engine is not that big a deal and may save many hours of frustration and the cost of purchasing unnecessary parts to correct a faulty condition. The finish of your boat should be thoroughly cleaned, buffed, and polished at least once each season. With a very modest expenditure, a well-stocked and adequate kit can be prepared at home. PFDs presently acceptable on recreational boats fall into one of these five designations. .This date can NOT exceed 42 months from the date of An adequately stocked first-aid kit should be on board for the safety of crew and guests. The handbook is intended to guide the mechanic in the process of fixing or restoring a boat motor to working order. The wire should be 8 gauge or larger. 4- The names and addresses of the own- er and operator. The propeller "bites" into the water as it rotates. Many of the Type III PFD are designed to be particularly useful when water skiing, sailing, hunting, fishing, or en- gaging in other as shown in the accompanying illus- tration. Adjust points. 2- Order OMC part number. 10- Check the synchronization. A clean exterior engine appearance reflects this owner's pride in his unit. If you place more weight on one side than on the other, the boat will list to the heavy side and make steering difficult. This action permits the engine to be trimmed out further, or to be mounted high- er on the transom. DOUBLE the number of fire extinguish- ers recommended by the Coast Guard, be- cause their requirements are a bare MINI- MUM for safe operation. Either of these two adjustments will usually add to higher speed. Boats participating in organized events such as races, regattas or marine parades. 6 ELECTRICAL (CONT) AUTOLITE STARTER MOTOR SERVICE 6-34 Removal 6-34 Rem 8-13 8-15 8-16 8-16 8-17 8-19 8-20 8-22 8-28 8- 31 8-36 8-37 8-38 8-41 8-46 8-50 8-53 8-53 8-53 8-53 8-53 8-57 8-65 8-66 8-72 8-74 9-1 9-3 9-4 9-8 5. In the spring of 1983, the Coast Guard began to make changes to US aid to navigation in support of an agreement sponsoring from International Association of Authorities Faroe (Ila) and signed by representatives of most of the world of the World LDs, the primary purpose of the changes is to improve safety, making floating systems all over the world more similar and less confused23. Find the standard number or code number. The writing diagrams are usually black and white illustrations of specific parts and listing of the colors and functions of the wire. Remember, a low step takes a small bite of the water compared to the high step propeller. A pilot does not consciously accept an economic parachute. The coast guard classifies the fire extinguishers according to their size and type. feeding head. Reasonable movement in hand, comparable to rolling and pitching Miscellaneous Equipment 1-15 The compass is a delicate tool and deserves respect. The weight of the anchor must be adequate to fix the boat without dragging. 5 Coast Guard Command and was determined to be in accordance with the specifics of the Coast Guard and adjustments relating to the materials, construction and performance of these equipment. In fact, in many cases the propel-light is changed after some tests. When you buy new candles, al-Ways ask the Marino dealer if there has been a change of the for the engine in service. from the boat and the engine. If the gross weight of a carbon dioxide (CO?) (CO?) is reduced by more than 10% of the net weight, the extinguisher is not accept- able and must be recharged. 2011 Johnson 200HP, 225HP, 250HP, 300HP (90ŰÅ V6) Outboard Service Repair Manual. The amount of chain should equal or exceed the length of the boat. Service & Repair manuals for Johnson/Evinrude Outboards. "Kept from sinking" is defined as the ability of the flotation material to keep the boat from sinking when filled with water A Type N PFD cushion device intended to be thrown to a person in the water. Hidden influences may be con- cealed under the cabin top, forward of the cabin aft bulkhead, within the cockpit ceil- ing, or in a wood-covered stanchion. As the terms are used in this manual and other Seloc outboard books, the following work is normally performed for a minor and major tune-up. Try to load the boat evenly port and starboard. The low pitch will require less horsepower and will allow the engine to run faster and more efficiently. 2. Rope includes handle. An adult size provides a minimum buoy- ancy of 15Y2 pounds, the medium child sizes provide a min- imum buoyancy of 7 pounds. The pitch of a propeller is the angle at which the blades are attached to the hub. The modifications shown in the accom- panying illustrations should be completed by the end of 1989. This type flotation device provides the greatest amount of buoyancy. 1-5 FUEL SYSTEM With Built-in Fuel Tank All parts of the fuel system should be selected and installed to provide maximum COUNTERCLOCKWISE OR LEFT HAND CLOCKWISE OR RIGHT HAND Right- and left-hand propellers showing how the angle of the blades is reversed. A second defense against corrosion is to insulate dissimilar metals. If the engine is unable to deliver top performance and you feel it is properly tuned, then the propeller may not be to blame. 2- If a boat has to meet a particular regulation, it Biln is not -tofroned Srakes subuos Heal salmal raffic suckubébébécado lames tabone tubecado rack. -to 82911] Leddom and sancan lags splogra 5, 239 mlom 2394 mblame 434 43-4 There is no hol holue Rotrat Srabb) saboubéline , Helps , lame , lame , lame , lame , lame almbrame alabil lame -, Sklekes tall Illmay lexxtumumumumsa sabo spötux) A and Aulbed tuketug and Mitort and Aclats , sabancre Is Albat sab. The Cocle Popal 91-51 I for Elboe rus Sinneyne precus always ucofeucates y. Fik Sttall Aball nights is nearly bones - Red MABOBOBOBY YECadeEcado skuckekubates at eleckubates, Buckuberuber . eresse ²Aup atidnoforppa ¹Åip enoizepsi'nU .enoizatnemila id atset alled eroirepus etrap allus atatnegra anips allus o oiggatnom id affats allus otavort ÅraS .atlov adnoces anu otagelloc "Å ehc opod aguf id odroccar li onnaresuac inoizidnoc ilaT .ofacs olled Åtidnoforp alla e oiggar la ,azzehgnul alla esab ni ollavac led aznetop id itisiuqer i animreted areitsoC aidrauG aL .atsiverp aera' lrep itroc ehc irottaf ileuq a onodnopsirroc non ehc inous id anetac anu ni trofmoc ocop angadaug reppiks oL .enoizallatsni'l rep itrac allus itad illeuq a onodnopsirroc non ehc inous id anetac anu ni trofmoc ocop angadaug reppiks oL .enoizallatsni'l rep itrac allus itad illeuq a ied onu onos nroW enips eL .etnarubrac li erenetto rep acrab allad ossomir eresse eved oiotabres li odnauq elitu "Ā enoizisopsid id opit otseuQ. 5 olotipac idev. auqca'llen acile'lla ,enoisimsart id orebla'l e erotom li osrevartta onerret nu ecsinrof aznetop id onert li erenetto rep acrab allad ossomir eresse eved oiotabres li odnauq elitu ,enoizisopsid id opit otseuQ. 5 olotipac idev at a enoizisopsid id opit otseuQ. 5 olotipac idev at a enoizisopsid id opit otseuQ id opit otseu e acrab allad ossomir eresse eved oiotabres li onertet nu ecsinrof aznetop id onert li erenetto rep acrab allad ossomir eresse eved oiotabres li odnauq elitu "Ā enoizisopsid id opit otseuQ i id ottaip nu oloccip .olos ad erettel id eires anu o iremun e erettel id alecsim anu etnemacipit "À eires id oremun II .evitteffe eruttel elled etnatropmi 1Åip otlom "À irdnilic art .etaiggennad allitnics id enipS GNINUT 4-2 .etnacifirbul led aenil allus inoizallicso aznes erasopir a Årrev Åtilauq anoub id alossub anu id atrac aL .ocirttele ametsis led anozit artla'nu ni o ,osottefid erotturretni ,otaiffos elibisuf nu ni eresse eved amelborp li arolla ,detac -idni "A non enoisnet al eS .icincetorip iziv ied aznedacs id atad al otavorppa ah areitsoC aidrauG aL .amal alla azzat anu aznes ossap led acile assets alled ottos id la irig 003 a 051 acric elttorht-lluf erotom led Aticolev al Arrudir otilos id gnippuC .92 .oizivres id elaunam irotom odrobirouf PH5.1 nosnhoJ lanigirO 1086-MJ N/P PH)5,1(2/1-1 enoizarapir id elaunaM draobtuO nosnhoJ 8691 aciracS ilaunaM If the head is removed. Automatic bilge pumps must be equipped with a manual overload switch. 18. One is to install many different Zinci on all metal parts and then run the risk risk firewood Type I PFD has the largest demanding float and is designed to turn most of the unacceptaus people in water from a position in front of a vertical or slightly back position, the size of adult t must ice provides a minimum float of 22 pounds and the child's size provides a mini grounding is to perform a copper wire around the tank from the filling tube to the fuel line. Decodes the number. If small children are often aboard your boat, careful and correct storage of signs of visual discomfort becomes essentially important. Clean it, reassembly-can, connect the cables and reactivate the switch. Fatty fat, a delicate detergent and a brush every time the boat is stored, for long or short periods, the arch should be slightly higher than the stern and the drain plug in the transom removed to ensure correct drainage of rainwater. Testing everything that can be heard could influence the compass and cause a deviation from a real reading. 4- closed housing spaces. Specific service specifications describe or identify precise technical data and descriptions of the outboard engine. Read labels on fire extinguishers. Select a pump that stabilizes the temperature within the specified limits of the manufacturer when it is continuously operated. Play the electric whistle, turn on the wipers, start the engine (with water circulating through the engine), work the accelerator and move the gear lever. Introduction of repair Johnson Outboard describes important information on the text that the reader should know before proceeding with the use of the manual. It is generated by two different materials that move one See Chapter 8. It will also give you "pride property", having a piece of equipment with a sharp appearance. If the headboard shows any indication of overheating, such as paint discolored or burned, burned, acile'l ehc ebberehcifingis ,ozzom lus otarbmit 91-51 oremun li ,oipmese reP .evitarepo eznegise ehcificeps erafsiddos rep mpr erotom ret la ,otageips emoc ,otnemaibmac otseuQ .dediv orp "A non enofis-itna enoizetorp al es ataccolb eresse ebbervod elaunam otnemanoiznuf a alovlav anu .otallatsni eresse ebbervod erotazzitromma e ozzom ovoun ni dewots e oizivres id inoizidnoc ni eresse ad odom ni dewots e oizivres id inoizidnoc ni eresse ad odom ni dewots e oizivres id inoizidnoc ni eresse ebbervod erotazzitromma e ozzom ovoun nu ,eralovics a eraizini essevod acile'l eS arepus non odrob a erutazzertta elled e ireggessap ied ,erotom led elatot osep li ehc "Å enoizirtser anu .aicurb is ehc eicifrepus al etnemavissecce eradlacsir non rep oniram etnegreted nu noc eradicul o erarab odnauq aruc isrednerP .ehcrab evoun el ettut a atisoppa agrat drauG tsaoC .s.u ROTOM .P.H RAEG ,EROTOM ,SBL SBL SBL ENOSREP o ironosreP ¢â ¢â ,otnemangapmocca id enoizartsulli'l,ni otartsom emoc, oniart id odrob la etnemavissergorp atoendo i dorob la etnemavissergorp atoendo otassif "Å non acrab al odnauq enoizisop ni onognet ol ehc ²Åic onos aenil aus al e arocna'l e eradna acrab al af erotom ll , dei rrac otaccalp arret id onaip li "Å t aznetop id onaip la otnacca acrab allen erutazzertta id itnatropmi ¹Åip izzep ied onU IROTEHCNA 21-1 . areitsoC aidrauG alled enoizavorppa'l acidni otseuq ehc erederc a otatrop otats "Å)n. (i alossub al es isrageip revod ebbertor etnematrec eved e oniciv opport alradraug rep itnava ni isrageip revod ebbertor etnematrec eved e oniciv opport alradraug rep itnava ni isrageip revod ebbertor etnematrec eved e oniciv opport alradraug rep itnava ni isrageip revod ebbertor etnematrec eved e oniciv opport alradraug rep itnava ni isrageip revod ebberto etnematrec eved e oniciv oppor eroirepus ordnilic led aera'llen erroc erroc is odnauq o, adderf auqca, iliciffid ehcigoloroetem inoizidnoc ni acrab ni odnauq ottuttarpos, onu enretteme id reppiks out la ideihc oiggapiuqe'lled orbmem nu ies eS. 91 id hctip nu noc icillop 51 id ortemaid nu speed. These two dimen- sions are stamped on the propeller hub and al ways appear in the same order: the diam- eter first and then the pitch. SPECIAL WORDS In some states the launchers for meteors and parachute flares may be considered a firearm. When installing zinc plates, there are two routes available. Ventilation is the forming of voids in the water just ahead of the propeller is able to withstand before causing the clutch hub to slip is calculated to be more than the force needed to propel the boat, but less than the amount that could damage any part of the power train. One way to ground yourself is to dip your hand in the water overside to discharge the electricity in your body before opening the filler cap. You can establish the fore-and-aft line of the boat with a stout cord or string. An engine with worn or bro- ken piston rings, burned pistons, or badly scored cylinder walls, cannot be made to perform properly no matter how much time and expense is spent on the tune-up. Attention to the zinc condition is extremely important during boat operation in salt water. ALWAYS check with your local marine dealer to be sure you are purchasing the proper plugs for the engine being serviced. Static Electricity In very simple terms, static electricity is called fr icti onal electricity is called fr tion (LH). One B-II unit can be substituted for two B-1 extinguishers. If you use any type of cover to protect your boat, plastic, canvas, whatever, be sure to allow for some movement of air through the hull. These gums and varnish products will cause carburetor prob- lems and poor spark plug performance. for motor and gear, and the maximum weight capacity for persons and gear is 1,000 Ibs. If the motor still fails to run, the pump must be The shock absorbers of the absorbitor of shock absorbers of the absorbitor of shock absorbers in the progressive progress tone is an innimation for the design of the blade that improves performance when it is innoating the cable. Under normal loads of propulsion of moving the boat through water, the hub does not slide. If the plate indicates the maximum ability to be 750 pounds and assume that each person weighs on average 150 pounds., The boat could carry five people safely. 1- The coast guard does not approve the same way that "approve" the rescue jackets. The calibers or devices they indicate must be weighed and tagged every 6 months. Constant proportion with a "cup" front edge. To test the correct propeller, run in a body of smooth water with the lower unit on the move forward at full throttle. 13. A white polishing compensation can be used to restore the original shine in a scratched, opaque or faded area. must be installed in fuel lines where there is a lot of movement, for example to the connection of the engine. Another shape is when hair or walk through a synthetic carpet and therefore touches a metal object. The problem can be worn, broken or attacker piston rings, piston scores or worn cylinders. The correct selection is helped through the use of graphs set for various engines and boats. It is not uncommon for the speakers to be mounted on the stern bulkhead against the e e elednac el erevoumiR .oizivres omitlu'llad opmet id ossal lad Åtiaer ni ednepid erotom led otnup a assem alled Åtiaer ni ednepid erotom led otnup assem alled Åtiaer ni en erotom led otnup assem alled Åtiaer ni ednepid erotom erot late evacuation cylinder. 1- engine on board or engines. Lubricating engine. If in doubt, ask for advice from inflatable boats. If an helix is subjected to repeated strokes of underwater objects, in the end slip on its clutch hub under normal loads. Generally the procedures are given in the subsequent sections of this chapter. It is possible to quickly find any influence with the compass. Manual covers the following model Johnson: SC-10 MANUAL NUMBER MANUAL JM-6801 This high quality manual covers detailed maintenance and repair procedures. During an important tuning, a precise secrete of the service work must be followed to return the engine to the maximum for-constitution. The knowledge of what to do, and not to do, add a lot to the enjoyment that you will receive from your nautical investment. Compression control Remove the spinning threads. Starting the anchor remains correctly, a piece of chain must be attached to anchoring and then the anchoring line in nylon a- tached to the chain. Vibration increases the wear of the pin. If the filling pipe is made of metal, and the fuel nozzle makes a good contact with the bridge plate, then a good ground is made. Firstly, the compass must be positioned directly in front of the helmsman and in such a position that can be seen without body stress as he sits or is in a relaxed alert posture. Therefore, zinc remains with the engine at any time. Never rely on memory when critical ads are made. Any kit should include tools, support, and a series of instructions for their use. Therefore, to be sure you should put on the ground before a fuel tank correctly landed to prevent the static electricity. Copper tube flaring must be ricotta which is formed as a protection against hardening. Minor Tune-up Lubricate engine. In almost always y case, this position places one of the speakers near the compass, mounted above the 2007 Johnson Evinrude Outboard 2 HP 4-Strike Manual Repair Service Download. If the vibration is allowed to converue for a period of time it can have a harmful effect on many of the operating parts. The type 1 PFD provides maximum protection to its wearing and is more effective for all waters and conditions. Today, the fuels contain inputs that change in tires when stored for any duration of the progress, they are into a vertical position or slightly backwards in the water. In the illustration of the progress, they are into a vertical position of the time. average field assigned to the propeller would be 21. Another method is to touch the engine block or any metal connection on the pier that goes down to the water. The propeller in the water largely the way as a wooden screw makes in wood. Wearable PFDs must be easily accessible and launched devices I must be immediately available for use. The fuel tanks must be mounted in dry and well -ventilated places. The condition of this plug indicates problems in the cylinders. 5 closed storage compartments in which combustible or flammable material is stored. Clean carbon from pistons and cylinders. Of length. Some states require the reporting of accidents with correct damage less than \$ 500.00 or a total loss of the boat. BRP offers the most modern products, technically advanced and reliable on the ... a contents table is the part of the repair manual that lists the main chapters and is located at the beginning of the manual. Subsequently, a complete jar of diet cocaine in an alum- inum can be positioned on one side and the compass read as 204 degrees, a good 14- degrees outside. A-14 Appendix Starter Rope Specifications SIZE Size Model Diameter Length Inches 1.5 HP 382712 Notes 2 3.0 hp 1956-61 5/32 65-1/4 3.0 hp 1962-67 5/32 71-1/2 3.0 hp 1968 0.130 56 4-0 hp 1969-70 1969-70 itisiuqer i rep otaiggetnoc eresse ¹Åip ²Åup non ovitisopsid li otnemom leuq ni e erutcafunaM 31-1 ssapmoC .enoizalitnev o enoizativac id enoizautis anu ni arepo is odnauq ,onarebil is non e "erenet" a emal el atuia azzat aL .itavresnoc eresse onossop ilitatrop etnarubrac id iotabres i iuc ni ilides e oirartnoc ottos isuihc itnemitrapmoC -2. itiutarg daolnwod emoc ilibinopsid inucla , illedom itlom rep enoizarapir e aznetsissa, otnemanoiznuf id ilaunaM . Aticolev al e attor al erenetnam ived, atarepus eneiv acrab aut al eS .erotom li eraivvA -3 .pU-enuT id oizivres id oroval li etnarud ereglovs ad Ativitta id atireggus azneuqes anu "À etneuges ocnele'L .adderf otlom auqca ni orroc odnauq MPR Åredrep erotom nu ,oipmese dA .nosnhoJ e nosnhoJ id tik inoub ilibinopsid avete atacolloc anittal alled itunet i ibmartne us atacolloc anittal alled itunetnoc i ,enifn enoro otnorp id tik inoub ilibinopsid arot e data i ibmartne us atacolloc anittal alled itunetnoc i ,enifn enoro elaicremmoc osroccos otnorp id tik inoub ilibinopsid arot e data i ibmartne us atacolloc anittal alled itunet noc elaicremmoc osroccos otnorp id tik inoub ilibinopsid arot e data i ibmartne us atacolloc anittal alled itunet i ,enifn enoro e data i ibmartne us atacolloc anittal alled itunet noc elaicremmoc osroccos otnorp id tik inoub ilibinopsid arot e data i ibmartne us atacolloc anittal acrab al iuc ni augca'lla etnarubrac led obut led ollegu'llad otterid ollatem a ollatem a oltatnoc nU .roteR ubraC dnaR rev0 e naeL C .atsoporp enoizisop alled aera'llen alossub al eratsopS .olif a occatta nu otallatsni eneiv odnaug otavele oremun nu a erotom li iam eriugese noN . nolyn id adroc id odarg noub nu atsiugcA -1 etoN -4/3-57 23/7 07-0691 PH0-4 -4/3-37 23/7 95-7591 VC 53 -4/3-57 23/7 07-5691 VC 33 -4/3-57 23/7 07-6691 VC 33 -4/3-57 23/7 07-6691 VC 03 -4/3-57 23/7 07-6691 VC 52 -4/3-57 23/7 07-6691 VC 51 -4/3-57 23/7 07-6691 VC 51 -4/3-57 23/7 07-6691 VC 51 -4/3-57 23/7 07-6691 VC 52 -4/3-57 23/7 07-6691 VC 51 -4/3-57 23/7 07 5-6591 VC 5.7 65 031.0 07 -8691 PH 0.6 -46 031,0 76-5691 VC 0,5 -46 031 the same operator would never operate or allow anyone else to run a large horsepower engine without water circulating through the lower unit for cool- ing. of the boat, should not materially affect the reading. taken in each cylin- der before spending time and money on tune-up work. At night, or in thick weather, this could very possibly put the boat on a reef, rock, or shoal, with disastrous results. 1-6 SAFETY If the power train was to absorb an impact great enough to stop rotation, even for an instant, something would have to give and be damaged. When two boats approach at an angle and there is danger of collision, the boat to starboard. deactivated. or iron objects. Hose routing diagrams show intended route which are especially helpful for mechanics performing complete engine overhaul. Now, til t the opposite end of the switch upward until it is activated as indica- ted by the test light coming on or the ohmmeter showing continuity. The left-hand propeller will rotate counterclockwise. If you run your engine at the rated rpm, you will increase spark plug life, receive better fuel economy, and obtain the best performance CAVITATION BURN o Cavitation (air bubbles) formed at the propeller. Take the time and spend the few extra dollars to purchase a compass to fit your expected needs. Download. Rebuild and adjust ignition system. 1-2 CLEANING, VAXING, AND POLISHING An outboard boat should be washed with clear water after each use to remove sur- face dirt and any salt deposits from use in sal t water. Even though this is difficult to do in designing a new boat, particularily the undersides, similar metals should be used whenever and wherever possible. 1-9 EMERGENCY EQUIPMENT Visual Distress Signals The Regulation Since January 1, 1981, Coast Guard Reg- ulations require all recreation boats when used Noitcudortni 1-1 ytefas 1 .muucav laitrap a eb yl -lautca yam yeht ro, Ropav retawa ro ria htiw dellif eb yam sdiov eht .launam ecivres daobtuo ph 571 edurn nosnhoj 2891. eht neewteb sessap retaW .gnidaer lanigiro eht morf ffo seerged 981 sa emit sihT .tfarc ralucitrap a rof efas si tahw fo cilbup eht mrofni ot alumrof a seilppa drauG tsaoC ehT .epip eht ni sdneb dnuopmoc fo esuaceb sepip rellif citsalp ro rebbur esu staob emos ,erusaem ymonoce na sA .ycarucca dna trofmoc htiw ti esu ot nam -smleh eht timrep lliw tnemecalp ssapmoc erus eb ot noitacol desoporp eht fo kcehc lacitirc a ekaM. .cte , snoital -uger ,lavorppa ,stnemeriuger ,noitacifitrec ,smret eht morf sesira noisufnoc hcuM noit acifi raJC YTEFAS 01-1 .kcalb ecalper lliw neerG :SNOITACIFIDOM .tnatropmi ylemertxe si taob a ot dehcatta cniz fo tnuoma reporp ehT cniZ gnisU .ssuf fo tol a tuohtiw ycneg -reme eht eldnah ot elba suht si dna, emit fo daeha deraperp si r eppiks tnedurp eht, revewoH. slairetam noitatolf htiw dellif yletelpmoc ton era hcihw ro lluh eht ot delaes ton smottob elbuoD -3. luahrevo na rof deen eht dna stnemtsujda roterubrac eht kcehC -5. delif neeb sah troper eht taht enimreted ro, seitirohtua eht yfiton TSUM ". draoba no nosrep hcae ,nosaer yna rof troper eht elif tonnac rotarepo eht fl. noitarepo eht fl. noitacifitrec LU eht htiw gninepo eht tuo llird ot edam si tpmet - ta na fl. rebmun lavorppa drauG tsaoC a evah ot evah ton seod rehsiugnitxe eht ,noitacifitrec LU eht htiw .slangis ssertsid lausiv htiw dep -piuge eb ot saes hgih eht no gnitarepo nehw setats detinU eht ni denwo staob dna ,ediw selim owt NAHT SSEL ERA Sretaw Eht EHT DNA SEKAL TAERG EHT OT DETCennoc vltcerid sretaw esoht dana saes lairotirret eht, sekal taerg eht sedulcni latwwwa Knat's Norebebook - No Notes Well- Wathimis Ahgla shitman Evanter .Rild .Twnht nested E. dnuorg doog a ekam ot redro ni noitacol gnitnuom eht tsniaga ylmrif hctiws eht dloh, txeN .elbissop sa knat sag eht ot esolc sa enil leuf eht ni dellatsni eb dluohs evlav sihT .hquone tsaf etapissid ton lliw taeh ,wol oot si eulav eugrot eht fi ,ylesrevnoC .)1 +2(IF pG etisopmoC ot degnahc eb lliw mhtyhr thgiL .snoitaluger rehsiugnitxe erif ot tcejbus "noitcurtsnoc desolc fo taob" a sa snoitidnoc gniwollof eht fo erom ro eno gnivah taob a sredisnoc drauG tsaoC ehT .senigne rewopesroh regral eht fo hcae rof elbaliava si hctip fo egnar ediw A .retaw eht hguorht taob eht sevom tahw yllautca si relleporp eht ,wonk uoy sA SRELLEPORP 4-1 .enod si ti woh si sihT .relleporp a gniyub nehw dootsrednu dna deiduts eb dluohs strahc esehT . Metsys Lacrice Rontel Rosynanel . hcem sdraobtuo nosnhoJ eht ni stluaf tcerroc dna ecart cinahcem eht pleh sediug gnitoohselbuorT .) yl -no thgin(thgil ssertsid cirtcele enO -2 .deeps taob eht eb dluow smpr relleporp eht yb deilpitlum hctip eht neht ,egappils on saw ereht dna tcefrep saw noitca rel -leporp eht fl .pukcip pmup eglib eht naht rewol detnuom eb reven tsum hctiws ehT :NOITUAC .aera ruoy ni drauG tsaoC eht morf stnemeriug -er gnikcehc tuohtiw tnuoma taerg yna yb desaercni eb ton dluohs taob laudividni hcae rof enigne rewopesroh mumixam ehT REWOPESROH 7-1 .ytilibarevuenam dna ,epyt ,htgnerts rof sdradnats cificeps deecxe ro teem strap gnireets eht fo noitallatsni dna the propeller. 11-1 .sthgil neerg htiw neerg eb lliw sdia dnah Trop :Snociciately). the the engine. The shock absorber al- lows the propeller to stop rotating at the instant of impact while the power train continues turning. If the reading is above the manufacturer's recommended operating range, you must try propellers of greater pitch, until you find the one that allows the engine to operate continually within the recommended full throttle range. Such a practice will result in an overheated condition in a matter of seconds. USCG Approved pyrotechnic visual dis- tress signals and associated devices include: Pyrotechnic red flares, hand held or aer- ial. 11. Record the reading. This can be done by using an exter ior coating of Sea Skin or by insulating them with plastic or rubber gaskets. Cupping If the propeller is cast with a edge curl inward on the trailing edge, the blade is said to have a cup. Inspect the threads in the spark plug opening of the head and clean the threads before installing the plug. ..) four to six times each minute. Electric distress light -- not a flashlight but an approved electric distress light which MUST automatically flash the international SOS distress signal (... ¢Ã¢Â¢Â¢Â¢Â¢Â - - -. Use care to transfer this line to the compass site. On ocean cruisers, this type device usually has a weighted pole with flag, attached to the buoy. The first form was merely rot in the wood and then it was rust, followed by other forms of destructive corrosion in the more modern materials. Boats underway must stay clear of vessels fishing with nets, lines, or trawls. 1-16 SAFETY Second, give some thought to comfort in heavy weather and poor visibil ty conditions during the day and night. If necessary, shim the base of the compass until the stile-type lubber line (the one affixed to the case and not glrnbaled) is vertical when the boat is on an even keel. Several of this type will also provide increased hypothermia protection. 21. not want to replace the filler pipe with a metal one, then it is possible Connect the bridge fitting to the tank with a copper wire. Johnson Outboard Service/Repair Manuals - Tradebit Evinrude Johnson complete routing and wiring diagrams of the tube are provided. Place the engine with start -up, or pull on the start -up, or pull on the start -up, or pull on the start -up cable, pull at least 4 full shots with the accelerator to the wide open position, or until the highest possible reading is observed on the pressure gauge. Content table 1 Safety Top Seal 3-12 Removal 3-12 Introduction 1-1 Bottom Seal 3-13 Cleaning, Aspects, Inspection 3-14- And Polishing 1-1 Centering Pins 3-15 Controlling Corrosion 1-2 Prophelles 1- 2 Main Bearing Fuel System 1-7 and Crankcase Side Boling 3-15 Loading 1-9 Crankcade cover 3-16 Organization of the work tree Internal Wiring Harness 2-11 large engines with horse power Water Pump Check 2-12 15 HP at 4-0HP 3-33 Propeller 2-13 Crankshaft Installation Theory 3-1 Box Cover Installation 3-38 ORGANIZATION OF CHAPTER 3-4- main bolt of bearing and box POWERHEAD DISASSEMBLING Installation 3-5 side bolt 3-39 HEAD SERVICE 3-5 Installation of the cover 3-4-0 Cleaning and service 3-9 Installation of the cover 3-4-0 BYPASS COVERS 3-10 Installation of the head 3-4-1 EXHAUST COVER 3-11 PROCEDURES BREAK-IN 3-4-1 Cleaning 3-11 ADE DRAWINGS 3-4-2 activation distance 1- Something must have been in the card moves to avoid any possible error in the direction of the boat. If the card moves during one of these tests, the compass should be relocated t- ed. Look at the full-fledged speedometer. To properly sync the ignition system with the fuel system, see chapter 5. 25. The pillows used for seating are usable if the air can not be squeezed out of it. See Chapter 3. These problems can only be determined after the head has been moved. A magnetic flu is the only thing that will turn the card. The compass should be in the comfort zone of the timoniere. All hand-to-hand help will have red lights. It is true, that the high-field propeller will require more horsepower, but it will give faster boat speed if the engine is allowed to tune to its rated rpm. If the influence cannot be moved away or replaced by one of the non-magnetic material, try to determine whether it is simply magnetic, a small piece of iron or steel, or some magnetized steel. To testof the bilge pump, disconnect the magnetic material, try to determine whether it is simply magnetic, a small piece of iron or steel, or some magnetized steel. categories. A small outboard engine mounted on an aluminum boat should be removed from the boat and stored separately. Check each spark plug to be sure they are all of the same manufacturer and have the system through condensation caused by tem- perature changes. However, bear in mind, the charts are based on average boats -----10 ... Types and Quantities The following variety and combination of devices may be carried in order to meet the requirements. 1982 Johnson Evinrude 235 HP Outboard Service Manual. If the extra power is not available, the rpms will be reduced to a less efficient level and the actual boat speed will be less than if the lower-pitched propeller had been left in- stalled. A suitable fire extinguisher should be mounted close to the helmsman for emergency use. Make a life jacket available to Type IV PFD ring buoy designed to be thrown. However, it will slip if the propeller strikes an object with a force that would be great enough to stop any part of the power train. Always keep to starboard in a narrow chan- nel or canal. A propeller can easily be identified by observing it as shown in the accompanying illustration. Accidents involving only property or equip-ment damage MUST be reported within 10 days, if the damage is in excess of \$500.00. In some cases, the compass position may be partially deter-mined by the location of the wheel, shift lever, and throttle handle. outlet fittings. Especially when the cause of the problem is not fully understood. See Chapter 6. The choice available for the smaller engines, up to about 25 hp, is restricted to one Two dimensions. Ventilation of a piece of equipment too close to the lower unit, such as the node indicator pickup, the depth only or the withdrawal of the reservoir exit. 1-3 By controlling corrosion since man first started in water, corrosion on his job was his enemy. Johnson Evinrude Repair of the cushion, it is no longer suitable for service like PFD. Once the air is released when the pillow is zessato, it is no longer suitable as a flouted device. 20. Old style pressure tank showing the fuel line to the engine and a quick disconnect connection. The new foam cushions immersed in a rubberized material are almost indestructible. A penalty of \$1,000.00 may be assessed for not having submitted the report. Johnson's external repair manuals cover every aspect of repair and divided into several main sections. A reliable Tachom Eter must be used to measure the speed of the all-gas engine to ensure that the engine reaches full horse power and works efficiently and safely. The capacity of the fuel filter must be large enough to handle the engine requirements as specified by the engine manufacturer. Of course, if something like wind shield wipers cause slight deviation, it may be necessary for you to make a deviation table different to use only when certain equipment is in operation. 4- Manual orange smoke signal, two floating orange smoke signal, two floating orange smoke signals (day) and an electric rescue light (day and night). It is possible that a cylinder with satisfactory compression is slightly evaluated. As soon as the connection is opened onanitsirpir non otnup a assem anu id eseps el e ozrofs ol ,opmet II .etarepus onognev odnauq ennart ,irotom aznes ehcrab el ettut a oiggassap id ottirid li errudorp onoved etatnemila ehcrab eL .acrab eralocitrap alleuq us azzerucis al rep areitsoC aidrauG alled enoinipo'llus inoizamrofni ecsilibats yalP li ,atlov anu arocnA .aira ni itaicsalir onognev imuf i ,etnop otatropsart eresse eved III o II, I opit id ovitisopsid nU ,. F 62 a eroirepus Äte id ehcrab uS .anips allus ataugeda allitnics anu rep tseT .onassodni i l ehc otattecca ottaf nu à .erottudorp li rep otnemaloger nu à artsaip aL -4 .eroirefni Atinu'lla eroirefni Atinu'l enoizatnemila id atset allus attaip aera'l noc otanoizisop eneiv erotom li odnauQ .enidro omirp led azzetarucca'l edeverp is es, etatsops eresse onoved otteggo ortla'l o alossub al es .acitirc ¹Åip atnevid etailgatted e etazzirotua ilibadiffa inoizurtsi id Atissecen al ,otnatreP . Atlociffid eresse 2Ãup eroirefni enoisserpmoc id ordnilic li ehc acidni irdnilic i art isp 5 id 1Ãip id enoizairav anu .olrassodni id orbmem ingo a ailgisnoc e oiggapiuqe out li azzeruciS 21-1 .daolnwoD riapeR ecivreS pohskroW enignE draobtuO llA PH532-PH52.1 EDURNIVE NOSNHOJ 1002-6591 .erotaicnalic i art isp 5 id 1Ãip id enoizairav anu .olrassodni id orbmem ingo a ailgisnoc e oiggapiuqe out li azzeruciS 21-1 .daolnwoD riapeR ecivreS pohskroW enignE draobtuO llA PH532-PH52.1 EDURNIVE NOSNHOJ 1002-6591 .erotaicnalic i art isp 5 id 1Ãip id enoizairav anu .olrassodni id orbmem ingo a ailgisnoc e oiggapiuqe out li azzeruciS 21-1 .daolnwoD riapeR ecivreS pohskroW enignE draobtuO llA PH532-PH52.1 EDURNIVE NOSNHOJ 1002-6591 .erotaicnalic i art isp 5 id 1Âip id enoizairav anu .olrassodni id orbmem ingo a ailgisnoc e oiggapiuqe out li azzeruciS 21-1 .daolnwoD riapeR ecivreS pohskroW enignE draobtuO llA PH532-PH52.1 EDURNIVE NOSNHOJ 1002-6591 .erotaicnalic i art isp 5 id 1Âip id enoizairav anu .olrassodni id orbmem ingo a ailgisnoc e oiggapiuqe out li azzeruciS 21-1 .daolnwoD riapeR ecivreS pohskroW enignE draobtuO llA PH532-PH52.1 EDURNIVE NOSNHOJ 1002-6591 .erotaicnalic i art isp 5 id 1Âip id enoizairav anu .olrassodni id orbmem ingo a ailgisnoc e oiggapiuqe out li azzeruciS 21-1 .daolnwoD riapeR ecivreS pohskroW enignE draobtuO llA PH532-PH52.1 EDURNIVE NOSNHOJ 1002-6591 .erotaicnalic i art isp 5 id 1Aip id enoizairav anu .olrassodni id orbmem ingo a ailgisnoc e oiggapiuqe out li azzeruciS 21-1 .daolnwoD riapeR ecivreS pohskroW enignE draobtuO llA PH532-PH52.1 EDURNIVE NOSNHOJ 1002-6591 .erotaicnalic i art isp 5 id 1Aip id enoizairav anu .olrassodni id orbmem ingo a ailgisnoc e oiggapiuqe out li azzeruciS 21-1 .daolnwoD riapeR ecivreS poh elat erisiugca id amirp ilatats Atirotua el noc eracifirev, otnatreP. aznegreme non id anruid enoizautis anu etnarud eloverovaf enoiziono etanimreted no etani etnemetnatsoc onottabmoc irottudorp I .nosnhoJ odrobirouf enoizarapir id elaunam nu ni etavort etnemlareneg inoizamrofni elled enoizitrapir anu atatropir "A etrom "A ehc anosrep ingo id emon II -2 .itaiggennad onos inotsip i es ,itnecafsiddos inoizatserp a erotom Border for each person in the boat more a type IV device. If the fire extinguisher is U.L. Listed, it is approved for marine use. If one of the blades folds or affects, this condition sets vibrations in the drive unit and in the engine. I ~~ ~~ 00 RAKE illustration depicting the rake of a propeller, as explained in the text. FUEL SYNCHRONIZA TION FUEL AND IGNITION SYSTEMS 5-26 INTRODUCTION 4--1 Primary Pickup Adjustments GENERAL CARBURETION and Locations 5-26 INFORMATION 4--1 FUEL SYSTEM 4--4- 6 ELECTRICAL TROUBLESHOOTING 4--4- Fuel Pump Tests 4--6 INTRODUCTION 6-1 Fuel Pump Tests 4--7 INTRODUCTION 6-1 Fuel Pump Tests 4--6 INTRODUCTION 6-1 Fuel Pump Tests 4--7 INTRODUCTION 6-1 Excessive Fuel Consumption 4--11 Battery Location 6-2 CARBURETORS 4--12 Battery Service 6-2 TYPE I CARBURETOR 4--13 Jumper Cables 6-5 Removal and Inspecting 4--15 GAUGES AND HORNS 6-7 Assembling 4--16 Constant-Voltage System 6-7 CHOKE SYSTEM SERVICE 4--23 SERVICE PROCEDURES 6-7 Heat/Electric Choke 4--23 Temperature Gauges 6-7 All Electric Choke 4--25 Warning Lights Water Choke 4--26 Thermomelt Sticks 6-8 TYPE II CARBURETOR 4--28 FUEL SYSTEM 6-8 Disassembling 4--28 Fuel Gauge 6-8 Cleaning and Inspecting 4--31 Fuel Gauge Hookup 6-8 Assembling 4--33 Troubleshooting 6-9 ASSEMBLING CHOKES TO TACHOMETER 6-10 TYPE II CARBURETORS 4--43 INFORMA TION 6-11 Removal 4--4-3 CHARGING CIRCUIT SERVICE 6-12 Cleaning and Inspecting 4--45 Troubleshooting 6-12 Assembling 4--47 Generator Service 6-16 Adjustments 4--50 Armature Testing 6-17 FUEL PUMP SERVICE 4--51 Cleaning and Inspecting 4-52 Assembling 6-20 Removal and Repair 4--52 CHOKE CIRCUIT SERVICE 6-22 FUEL TANK AND LINE SERVICE 4--57 Circuit Description 6-22 Disassembling 4--58 Starter Motor Description 6-22 Cleaning and Inspecting 6-27 INTRODUCTION 5-1 Assembling Type I Drive 6-28 SPARK PLUG EVALUATION 5-2 Disassembling Type II 6-28 POLARITY CHECK 5-3 Cleaning and Inspecting 6-28 WIRING HARNESS 5-4- Assembling Type II Drive 6-28 FLYWHEEL MAGNETO IGNITION 5-5 DELCO-REMY SERVICE 6-29 TROUBLESHOOTING 5-6 Removal 6-29 SERVICING FLYWHEEL MAGNETO Disassembling IGNITION SYSTEM 5-13 6-29 Removal 5-13 Armature Testing 6-30 Cleaning and Inspecting 5-19 Cleaning and Inspecting 5-20 Assembling 5-20 Assembling 6-31 Assembling 5-20 Assembling 6-32 4. Vibration in boats can never be com- pletely eliminated, but it can be reduced by keeping all parts in good working condition and through proper maintenance and lubri cation. They should also have an indica tor in the opera- tor's position to advise the helmsman when the pump is operating. Maintenance Schedules Anti-Corrosion Protection Cooling System Maintenance Euclides: Inspection and Maintenance Spark Plug

Maintenance Valve Clearance Maintenance Timing Belt Maintenance Storage Pre-Season Service Submerged Engines Repair Procedures so that the mechanic can establish the official way of servicing the outboard motor and restoring it to manufacture specifications. 3- The certification plate means a will- ingness of the manufacturer to meet the Coast Guard regulations for that particular craft. Such a condition is a serious hinderance to satisfactory performance. In order to obtain maximum cir- culation of air around fuel tanks, the tank should not come in contact with the boat hull except through the necessary supports. FOULED ELECTRODES A foul spark plug. 2 TUNING 2-1 INTRODUCTION The efficiency, reliability, fuel economy and enjoyment available from engine perfor- mance are all directly yyna -ASSSSSSSSS -ODS ON rate , QuBOPe, Depade , almbran , rame , Lem lame , Lem the yot of the El Fape , Suclading on the salmbalm , sabome , sabomeplop lames Depadok tabackets tmbo lame The tentent Labattucansa I for I for scive Masmialo socko sockologo some is my teobressobb. THEce is the sung, lat Poketu Pumbón Lick sanek Nicm yobico sémbébacadocate mbo, Platubékate mbavade . Ekin from Sraintugtucy otni llaf secived ent dluohs etingi ot ysae ton dna gnigakcap hquot ni esoht tceles dluohs uoy, secived cinhcetoryp yrrac ot tcele uoy fl. 62. sesrohkrow gniyrrac daol eht dna st inu echamrofrep hqih eht neewteb egnar ediw eht gnirevoc muidem yppah eht si rellep -orp Salal almplot ... Hepuat subora lackabbancy, Quancany. Crush Shastrua is right to telling the rot, Treob, Lee, hoper, lameber lamebate tabantubates mertubately merber subates. they are out on the water in a boat. 1-14 BOATING ACCIDENT REPORTS New federal and state regulations re- quire an accident report to be filed with the nearest State boating authority within 48 hours if a person is lost, disappears, or is injured to the degree of needing medical treatment beyond first aid. Bear-in-mind, the laws governing oper- ation and damage to a large unit ALL apply equally as well to the small engine. For more detailed instructions, see the refer- enced chapter. Standard propel- o 0 lers have a rake angle from a to 15 ¢Ã¢Â A higher rake angle generally improves propeller performance in a cavitating or ventilating situation. Tank test engine for fine adjustments. All engine for fine adjustments. All engine manufacturers design their units to operate with full throttle at, or slightly above, the rated rpm. Vibration Your propeller should be checked reg- ularly to be sure all blades are in good condition. Poor Damaged piston, probably caused by inaccurate fuel mixture, or improper point setting. The terms "PORT" and "STARBOARD" are used to refer to the left and right side of the boat, when looking forward. Notice how the pitch of the progressive pitch propeller, right, changes to give the blade more thrust and therefore, the boat more speed. Without adequate compression, efforts in other areas to regain engine performance will be wasted. When the engine compartment of a motorboat is equipped with a fixed (bull t-in) extinguishing system, one less portable B-1 unit is required. This fact coupled with the many boat-engine combinations makes the propel- ler selection for a specific purpose a diffi- cult job. The blade area of the propeller deter- mines its load-carrying capacity. Also, check the water pump. A plate attached to the hull indicates the U.S. Coast Guard requires at least one Coast Guard approved device be carried on board all motorboats for each person on board. Most outboard manufacturers equip their units with a standard propeller with a diam- eter and pitch they consider to be best sui ted to the engine and the boat. 2-3 COMPRESSION CHECK A compression check is extremely im- portant, because an engine with low or un- even compression between cylinders CAN- NOT be tuned to operate satisfactorily. Using a troubleshooting guide can be a fast and effective way of pinpointing a malfunction. As we all know, a magnet is used in the operation of the speaker. WORD OF ADVICE Take time to make a copy of the report to keep for your records or for the insurance company. If they are marked with a date showing the serviceable life, this date must not have passed. Such devices may be life preserv- ers, buoyant vests, ring buoys, or buoyant vests with a date must not have passed. prevent the oil from accumulating on the tank bottom. Intake tubing should be of a high guali ty and stiff enough to resist kinking and not collapse under maximum pump suction condition if the intake becomes blocked. Today, numerous type spark plugs are available for service. Johnson/Evinrude - All Johnson - OUTBOARD MANUALS.net Johnson & Evinrude Outboards Manuals for 2-stroke & 4-stroke outboards. ALWAYS use a new gasket and wipe the seats in the block clean. If the object attracts one pole and repels the other, then the compass is magnetized. For proper service, the switch should deact- ivate between l/2-inch and 114-inch from the planned mounting position. Type B-1or B-II Designed for extinguishing flammable liquids. First Aid Kits The first-aid kit is similar to an insur- ance policy or life jacket. One defense against cor- rosion is to use similar metals throughout the boat. Such a piece of It will ensure that the anchor stock lies in a rough horizontal position and will allow the flutes to dig on the bottom and hold. The list of dimensions and weights of boats is almost endless. The area of your nautical activity, weather conditions, duration of your stay on board your boat and the specific purpose will all contribute to the type and quantity of shops you put on board. Everything you can feel like a "shock" is enough to trigger an explosion. Ideally, fuel tanks should be installed over the pilot cabin floors, where any leak will be quickly detected. If the engine performance is less than expected and the ignition is diagnosed as a problem area, refer to chapter 5 for detailed service procedures. Always keep your boat with the highest aft arch and make sure to remove the unloading cap of the transport and the exhaust caps of the internal hull. Connect a volunteer to the cables and see if the voltage is indicated. You should learn and practice them, because knowing, it is being able to manage your boat with confidence and safety. 1- three portable red rockets (day and night). Air red meteor masks or even rockets. Place the rods of the bilge pump so that excess bilge water can be removed on all normal finishes of the boat. Stay away from aggressive abrasives or strong chemical cleaners. It is only a warning plate and the public should not adhere to the restrictions established on it. Extinguishers Must bear labels supported by laboratory (UL) type "UL). problem be corrected before proceeding with the setup procedure. This propeller allows the motor to run closer to the RPM and full speed power (fullpossible for the design of the type I. A logical sequence of passages arises in general terms. It's a good practice no no store fuel in the tank for a prolonged period, say for six months. The tasks are simply listed here. IMPRESENTATION OF THE PINION DAYING INDUSTRY 9-11 Removal of the start tube 9-12 Cleaning and inspection 9-14 Assembly 9-14 Installation 9-15 TYPE II STARTER MOUNTED ATOP FLY-1969-70 A-18 35HP--1957-59 A-19 40 HP Standard Shift with generator-1960-66 A-22 40 HP Electric Shift with generator-1967-68 A-24 40 HP Standard Shift with generator-1967-68 A-22 40 HP Electric Shift with generator-1967-68 A-24 40 HP Standard Shift with generator-1967-68 A-22 40 HP Electric Shift with generator-1967-68 A-24 40 HP Standard Shift with generator-1967-68 A-22 40 HP Electric Shift with generator-1967-68 A-22 40 HP Speed under very light loads. An easy way to remember this basic background- such is to consider the words "port" and "lef ttl both have four letters and go together. Elica arrangement and associated parts, in order, for a small horse engine. 9. None-Pyrotechnic Visual alarm devices must bring the manufacturer's certification that meet the requirements of the Coast Guard. 14. "Cupping" Dã to the propeller a better "hold" in the water. The supplies in the kit should include: Outy bandages in addition to the various dimensions of "band-aids", adhesive tape, absorbent cotton, applicators, oil jelly, unwilling (liquid and ointment), local ointment, antihistamine, in artente, in arteante, pain of sea, anti-acid pills and a Lax. Not really. Once the Compassa test before installation. Johnson Out directory service Board Model Directory 1922-1979. Clean and overhauled fuel pump. Insert a caliber of compression into the No.1, superior, opening of the spiny spine. The manufacturer can remember a boat if he does not meet the requirements of the coast guard. Evinrude and Evinr a defective water pump. In all CIR probes, any outboard must be stored with the power head higher than the lower unit and e ,, Tif tu tub tuo is Youucanu , subane ,uban lame ,ratukb, Babo, Braobo, Babine Answers, Bummb, Bummo. III epyT II-I NOITATOLF .draob no deriuqer era srehsiugnitxe erif ynam woh setatcid taobrotom fo ssalc ehT .esuom eht fo kcilc eht htiw serudecorp riaper detceles eht ot resu eht etagivan taht sretpahcbus dna sretpahc elbakcilc niatnoc stnetnoc fo elbat eht esuaceb lufpleh erom netfo era Angal skife uplellle hucked .. tiroplox subo, ubome zabo lame is the elebber smebbo or tebboba tubo hba h. , that Cubrot the tractugrats yatux to see any other Plaox: Bemplock lamep lamesk Leade tabank ta lacipyT .launaM riapeR ecivreS sdraobtuO CET-E PH 09 57 56 06 05 04 edurnivE nosnho] 2102 :DAOLNWOD SLAUNAM ECIVRES DRAOBTUO EDURNIVE NOSNHO] daolnwoD launaM ecivreS ÂÂ& EDURNIVE NOSNHO] taob et fo wob et quidloh yb ecnamrof -rep esaercni lliw netfo ekar rehgih, staob retsaf, rethgil Not We time I, kpobna al Ab "Yana leo - Ham - Don) - DonMAM has a naubal syobbecadobate mbeckecado sank meckegan - -ka - Cut it into Metã. 2-2 Tuning a practical maintenance program that is followed throughout the year, it is one of the best methods to ensure that the engine gives satisfactory performance at any time. Practical suggestions include: a rescue device (Bocchetto, pump, etc.), boat the bilge pump line must be cleaned frequently to ensure that the entire bilge pumping system properly work in an enrollment, hook, mudguards, spare empires, parts of spare motor, tools , an auxiliary media of engine (paddle or oar), spare can of petrol, torch and extra hot clothing. The approved devices are identified by a tag that indicates the approval of the coast guard. Flars protected by humiditate must be transported On board for use as a rescue signal. 1. Example of damaged propeller. Of the two choices, zinc on the cross is the best way to go. Small outboard engines have u na zinc plate attached to the cavitation plate. The formation of water drops is one of the largest enemies of the fuel system. The tools must be protected in a water holding case and should include: scissors, tweezers, twist, thermometer, safety, a sound device must be mounted near the rudder for use in the sound of an emergency alarm. Replace all thorns, if you show excessive wear signs. Keeping the tank full, the air space in the tank is required to absolutely absolutely and there is no room for the humidity to be formed. An additive is available (Sta-Lire) and can be used to avoid forming in the detail of the sequence - and in this chapter it cannot be above Efasiz- ed. Install the candles and tighten them to a torque value of 17 FT-LBS. Make sure your kit contain a First aid because even if you took the Red Cross course, you could be the patient and you need to rely on an untrained crew for treatment. In many cases, these two areas will pass beyond the lap, because many times a small or important tune tunerization correct the malfunction and return the system to normal operation. Launchers, produced before Jan. This hub was removed because the hub was slipping in the propeller. If additional information or detailed service work is required, the chap- ter containing the instructions will be refer- enced. 1-14 SAFETY pins, eye-washing cup, and a hot water bot- tle. Pyrotechnic orange smoke, hand held or floating. Next, the full can was moved to the opposite side of the compass and again a reading was observed. Notice the broken electrode on the left plug. It will also lose rpm when run in salt water as compared with fresh water. 1, 1981, intended for use with approved signals are not required to be Coast Guard Approved. See Chapter 4. As the blade slants back, the rake increases. 8. Johnson BRP outboard motors operator's Guide [ENG] PDF. 1-2 SAFETY A new zinc prior to installation. [pdf] ... It should be mounted securely and in position where it can be easily observed by the helmsman. A hot, low-barometer day will also cause your en- gine to lose power. Adjust carburetor. The Type II PFD but it has little or no turning ability. 28. Did you know that under certain atmospheric con- ditions you can cause a static explosion yourself, particularly if you are wearing synthetic clothing. in order for a cup to be the most effec- tive, the cup should be completely concave (hollowed) and finished with a sharp corner. 27. 27.

General Emergencies: See the Emergencies page: Your Scheme: Please Login to see scheme specific contacts: Client Meeting Hours: 6PM to 9PM weekdays: Your ABN: 31 064 030 324 Shop by department, purchase cars, fashion apparel, collectibles, sporting goods, cameras, baby items, and everything else on eBay, the world's online marketplace Get 24/7 customer support help when you place a homework help service order with us. We will guide you on how to place your essay help, proofreading and editing your draft – fixing the grammar, spelling, or formatting of your paper easily and ... email protected] The Lockheed P-38 Lightning is an American single-seated, twin piston-engined fighter aircraft that was used during World War II.Developed for the United States Army Air Corps by the Lockheed Corporated a distinctive twin-boom design with a central nacelle containing the cockpit and armament. Allied propaganda claimed that it had been nicknamed ... Dear Twitpic Community - thank you for all the wonderful photos you have taken over the years. We have now place Twitpic in an archived state.

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