

40 hp evinrude manual tilt



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Johnson Evinrude Outboard Motor. This manual describes procedures far to Japan, South. I added the windshield, far to Japan, South on sale 5388. This manual describes procedures. Johnson Evinrude Service Manual Application 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981. http://gestmase.com/media/images/delonghi-nespresso-lattissima-660_r-manual.xml

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If not, remove slack by adjusting cable trunnion. If the outbo ard will be used with ICommand, or

other NMEA 2000 compliant CANbus instruments, use the following connections to supply information to the network. Remove lower motor covers. Remove clip from cap tie straps. From the Settings screen, select Engine Options. For an ICommand water pressure display, several water pressure sensor kits are available. BATTERY AND BATTERY Stack cables from the outboard, then cables from accessories. Finish this connection with a hex nut. CONNECTIONS WARNING Keep the battery connections clean, tight, and insulated to prevent their shorting or arcing and causing an explosion. These clamps provide corrosion resistance, minimize the potential for abrasion of rigging components, and provide solid, permanent connections. The selection and installation of an Oetiker clamp is essential in the proper sealing of hose connections. Tighten the knob to reduce the effort required to Tiller models are equipped with a steering friction hold a throttle setting. Rotate the UPPER adjustment WARNING tab DOWN to increase the maximum tilt position. If the outboard does not clear all boat parts when tilted fully or turned side to side, safety related parts could be damaged. Tilt the outboard and engage the tilt support. A propeller will generate steering torque when the propeller shaft is not running parallel to the water's surface. The trim tab is adjustable to compensate for this steering torque. Each application and adjusted to align the outboards for correct operation must be thoroughly tested until the ideal water flow to the gearcases and propellers. The Evinrude ETEC screen should appear, followed by the tachometer display. Fuel System Perform running checks of the fuel system by following Engine Flushing Flush the outboard with fresh water following each Run outboard at IDLE only until full operating temperature is reached.

Hose and Flushing Adapter WARNING To prevent injury from contact with rotating propeller, remove the propeller before running engine with a flushing adapter. A flushing adapter may be used to provide cooling water when running the outboard to Flush the engine. WARNING Failure to regrease as recommended could result in steering system corrosion. Corrosion can affect steering effort, making operator control difficult. Grease the stainless steel output end of the steering cable with TripleGuard grease. Lubricate the swivel bracket with TripleGuard grease. Apply grease until the grease begins to flow from the upper or lower swivel bracket areas. Coat the pivot points of the trailing bracket with TripleGuard grease. Draining Install control cables. WARNING Check proper throttle and shift function. If plug is removed from a recently operated outboard, take precaution Debris from the water can become lodged around connections to avoid injury. Inspect the lubricant and the magnets on the plugs for metal chips. CAUTION Correct fluid level must be maintained to ensure operation of the impact protection built into the unit. Spark plugs should be removed and examined periodically. Replace worn, fouled or damaged spark plugs. Use only recommended spark plugs with the correct gap setting. Refer to FUEL COMPONENT SERVICING on p. 142. 002227. Sacrificial Anodes Galvanic corrosion occurs in fresh or salt water. Salt, brackish, and polluted water can accelerate corrosion. "Sacrificial" anodes are intended to protect the underwater metal components of the outboard from galvanic corrosion. Internal Engine Treatment Remove the propeller, attach garden hose to flushing port and turn on water. Reinstall all removed or disconnected parts. Remove lower engine cover screws. 006468 1. Bracket 002168 1. Lower cover screws Apply UltraLock to screw threads. Place hook into position with opening toward the front.

Installation of lower motor covers will be easier if the following steps are performed in order Install air silencer on throttle body. Tighten nut to a torque of 10 Apply UltraLock to screw threads. It also describes using Evinrude Diagnostics software to retrieve and adjust service information saved in the EMM 006487 1. Use Evinrude Stores service code 23 Diagnostics software to troubleshoot the sensors. Sensor inputs and internal EMM controllers are used to control outboard operation. Use Evinrude If sensor voltage is less than 4.75 volts, the EMM Diagnostics software to troubleshoot the sensors. The software Adjustment on p. This water ROM Verification changes the tuning of the exhaust, allowing the The EMM performs a self-test of programming engine to develop more midrange horsepower. All remote controlled outboards must be equipped NO OIL indicates the oil tank

is empty. Shutdown related to code 57 or IMPORTANT 33 requires the removal of the occurred service code. Use Evinrude Diagnostics software to clear a code 57 or 33. Connect Power Supply Use Evinrude Diagnostics software, version 5.1 or Tool to the engine harness connector. Turn toggle higher, and a laptop computer to access program switch to the ON position to power the EMM. The breakin oiling adjust EMM timing. EMM timing must be synchro program runs for two hours of outboard operation, sized to crankshaft position. Each injector and its location on the outboard is Refer to TPS Calibration on p. Periodically, a new program board. Pay close attention when performing the following tasks. Make sure isolator mounts are placed in slots in of EMM case. Slide EMM into position. 006478 1. Isolator mounts Apply Nut Lock to threads of EMM retaining screws. Refer to Static Ignition Test on p. 81. Use the Evinrude Diagnostics software Dynamic Tests to momentarily disable one cylinder while Evinrude Diagnostics software allows temporary the outboard is running.

Use the Evinrude Diagnostics software Monitor screen to check system voltage. Use the Evinrude Diagnostics software CPS Sync and engine RPM displays to confirm a valid CPS signal while the outboard is cranking or running. An inductive probe with low sensitivity Diagnostics software and an inductive timing light. Check resistance between J1B System voltage supply to ignition coil. Check quality of fuel supply. Use the Evinrude Diagnostics software Fuel Injector Static Test to activate each fuel injector. Listen Fuel Pump Static Test for an audible click from each injector when it is Use the Evinrude Diagnostics software Fuel Pump actuated. A water valve solenoid electrical circuit. The water steady stream of water should flow from the hose valve is a 55 volt coil. Disassemble and clean all corroded connections. Replace damaged wiring, connectors, or terminals. Repair any shorted electrical circuits. Refer to wiring diagrams and reference charts for specific wiring details. Make sure all ground connect by one automotive style 10 amp minifuse. Crankshaft Position Sensor CPS Test Use the Evinrude Diagnostics software CPS Sync 006527 1. CPS gap and engine RPM displays to confirm a valid CPS signal while the outboard is cranking or running. Meter should The stator consists of 3 windings 4 poles each read no continuity. Set meter to 50 VAC scale. 12 V Charging Circuit WARNING To test the operation of the regulator in the EMM, you must be able to run the outboard continuously To prevent accidental starting of outboard, at approximately 5000 RPM, such as in a test tank. Use the variable load tester to draw the battery terminals. TESTS Make sure the SystemCheck engine monitor can warn the operator during a "NO OIL," "WATER TEMP". The tan wire of engine harness and the MWS harness receives a signal from the EMM. The EMM receives information from the temperature sensor on the cylinder head. The LOW Check voltage at the battery.

SERVICING Weak flywheel magnets can IMPORTANT cause low alternator output and affect outboard performance. Weak flywheel magnets can also cause low readings on ignition test equipment such as a peakreading voltmeter, which might cause unnecessary parts replacement. Disconnect stator harness connector. Discard flywheel nut. Remove three allen head screws to remove stator. 002088 006486 1. SERVICING Ignition Coil Removal Remove spark plug lead from ignition coil and disconnect ignition coil electrical connector. Remove two ignition coil retaining screws. Verification procedure. TPS Calibration Use Evinrude Diagnostics software to tell the 002092 1. Mark "A" EMM what throttle position sensor voltage is when 2. Mark "B". Starter Removal Position the starter and install the screws and Do not clean the starter drive IMPORTANT washers. CONNECTOR SERVICING DEUTSCH Connectors Grease is recommended. Electrical mended. Incorrect grease application can cause electrical or warning system problems. 42329 1. Terminal latch plug To disconnect the connector, press the latch and 2. Electrical grease is NOT used on AMP connectors. UPERSEAL Disconnect Lift latch. Pull connectors apart. 002447 1. Timer Series connector. Disconnect Disconnect Depress BOTH latches and pull connector from Use a screw driver to open latch. Once fuel reaches the pump, internal pump pressure forces the fuel from the pump The fuel system includes the following components through the fuel filter and into the

vapor separator. Fuel Supply Fuel Supply Manifold The pump is mounted to the vapor separator and the fuel supply manifold supplies pressurized fuel. Each injector and its location on Fuel is supplied to the injectors by the fuel circulation pump and the fuel supply manifold. Perform with a fuel vapor separator must be shipped with a the following procedure in a well vented line clamp installed. Monitor pressure gauge.

FUEL SYSTEM TESTS Pressure should not drop below 15 psi 103 kPa. If outboard does not run, prime **WARNING IMPORTANT** fuel system and crank outboard; check circulation. Use caution when working on any pressure pump operation;. Clean or replace. Disconnect the battery cables at the battery. Disconnect the battery cables at the battery. Use a digital multimeter to measure the injector. Use a digital multimeter with appropriate adapter coil resistance. Install. This test does not confirm the performance of adapter fittings and a 36 in. Apply from the grooves of the isolator mounts. Nut Lock to mounting screws. Tighten screws to a torque of 24 to 36 in. Lubricate O-rings with outboard lubricant. Disconnect the battery cables at the battery. **NOTICE** Fuel injectors must be installed in the correct cylinder locations. Use Evinrude Diagnostics Software to make sure that EMM programming matches injector positioning. The Injector Coefficients screen displays injector serial numbers for each cylinder. Refer to the instructions provided with the injector kit. Upload Coefficient Files to EMM. If using Diagnostic Power Supply. **DO NOT** use strong carburetor cleaner or the hot Leaf plates must not be distorted. Apply Nut Lock to threads. Position reed valve ward. Tighten in stages to a final torque of 60 to on reed plate and install screws. **OILING SYSTEM TESTS** Air must be purged during the priming procedure. Always perform visual inspections **IMPORTANT** to identify oiling system leaks. Make sure the oil tank is filled and oil supply is not contaminated. Do not lose the brass hose support and crankcase assembly allow fluid to move. Insert hose support in manifold end of hose. **WARNING DO NOT** insert distribution hoses **IMPORTANT** into manifold without a hose support. To prevent accidental starting while servicing, twist and remove spark plug leads. Use Evinrude 1. Oil pump connector Diagnostics software to activate "Oil Prime.

" Disconnect the electrical connector to the low oil. Check oil flow through oil distribution hoses. Install O-ring on oil pump flange. Remove oil distribution hoses from oil manifold. Refer to Oil Distribution Hoses on p. 169. Remove oil from oil tank. Be sure oil pickup assembly is **IMPORTANT** positioned in front of oil tank baffle to prevent interference with the LOW OIL switch. 008183 1. This hole provides cooling Water Pump and Intakes water for the tip of the exhaust passage. Be sure External water intakes mounted in the gearcase to use the correct parts when replacing the water housing collect water and must supply the inlet. Water flows through the valve to the cylinder head. All models use a two-stage cooling system and bypasses the thermostat. All water flows design. Check for proper operation. Use care to Remove the thermostat cover and O-ring from cylinder head. 008346 008347 Clean sensor threads, sensor, and sensor cavity. Remove spring, thermostat, and gasket. Refer to Cylinder Head **PRESSURE RELIEF** Installation on p. 207. **VALVE SERVICING** The pressure relief valve assembly should be serviced at the same time as the thermostat. Disassembly Remove screws and cover from pressure valve assembly. Replace damaged parts. Clean debris from housing and parts. 002442 Pressure Relief Valve Assembly Components Assembly Assembly is the reverse of disassembly. Pay close attention when performing the following additional tasks. **WARNING** Disconnect crankshaft position sensor CPS connector. Remove all spark plugs. Protect against hazardous fuel spray. Before starting any fuel system service, Advance throttle linkage to WOT. **WARNING** Protect against hazardous fuel spray. Before starting any fuel system service, carefully relieve fuel system pressure. Refer to Relieving Fuel System Pressure on p. 142. To prevent accidental starting while servicing, twist and remove spark plug leads.

POWERHEAD DISASSEMBLY Systems Removal To simplify reassembly and wiring installation, lay out the various screws and clamps in the order of their proper location. Remove the electric st

arter. Remove shoulder screw from shift arm and retaining screw from shift rod lever. Remove the cotter pin and washer holding the shift shaft 2cylinder models. DO NOT Remove thermostat cover and thermostat assembly. Remove the screws. Refer to THERMOSTAT SERVICING on p. If necessary, use Wrist Pin Pressing piston rings from pistons. WARNING Wear safety glasses to avoid injury. Use a punch to remove the housing seal. Discard seal. 002034 1. Upper oil seal 2. Upper main bearing 002053 1. Punch Remove the lower bearing seal housing. Inspect housing and replace if necessary. Remove the O-ring from crankshaft sleeve and inspect it. To remove the sleeve, use Slide Hammer, and press off the crankshaft. CLEANING WARNING Before inspecting or assembling IMPORTANT To avoid personal injury, wear eye protection, all internal components must be cleaned and rubber gloves when using Gel completely clean and free of contaminants. The lower main bearing journal would only be measured if the bearing was Ford dimensions, refer to SERVICE SPECIFICATIONS removed for another reason. ASSEMBLY Inspect sleeve after installation. IMPORTANT Proceed slowly. Make no forced IMPORTANT Sleeve must not be used if surface is damaged. Lubricate upper main bearing with outboard lubricant Lubricate seal lip with TripleGuard grease. Place seal on crankshaft with lip down and enclosed face up. Install the bearings in the small end of the connecting rod. Gap of retaining ring faces up, away from notch in piston. Slowly pull connecting rod matches dot on rod and that both dots face fly up to crankshaft and install bearing halves. wheel. Joint must be smooth with no step. Test the GelSeal II or replace it if the age of the tube cannot be determined.

Insert bush Apply Nut Lock to threads of throttle lever screw. Apply TripleGuard grease to the shaft and detent of the shift lever assembly. Refer to Intake Manifold Service on p. 149. Install oil recirculating hoses and check valves. Refer to OIL RECIRCULATION DIAGRAMS on p. UPPER MOUNT The motor mount, washer, and IMPORTANT SERVICING 3Cylinder screw are serviced as an assembly. Do not disassemble. Removal Remove mount retainer screw. 39820 Installation 002069 Place mount assemblies in position, with flats facing away from each other. Install gasket on exhaust housing. To ensure proper sealing, mating surfaces must be clean and dry. Install the Connect cooling water hoses to exhaust housing. Refer to RECOIL STARTER INSTALLATION on p. 369. Guide into position over alignment pin at rear of exhaust housing. Removal WARNING Support the outboard with a suitable hoist. WARNING Replace locknut if definite resistance is not felt. Tighten starboard tilt tube nut to a torque of 45 to 50 ft. The exhaust water valve and the exhaust relief muffler can both be serviced without removing the exhaust housing. Remove screws and bracket holding valve to exhaust housing. Bring the exhaust housing into position with the stern bracket. 17526 1. WARNING Exhaust Housing Assembly Wear safety glasses to avoid personal injury, and set compressed air to less than phone and adapter housing. Install a new seal. Apply TripleGuard grease to outer seal surface. Assemble the tie bar to the stern brackets. Place the ground lead and starwasher between the port stern bracket and tie bar. It Remove the anode. Tighten screws to a torque of 40 to 50 in. Guard grease. When the pin is flush with the inside surface of the casting, remove the steering friction thrust ring. Place the reverse lock springs in the swivel bracket.

Insert the reverse lock pins in the swivel bracket and part way through the reverse lock springs. Install the tilt tube through the following parts and install the tilt tube nuts loosely Starboard stern bracket. Remove port reverse lock link. 006699 006695 1. Pins 1. Port reverse lock link 2. Locking lever Loosen bellcrank set screw, remove bellcrank and Remove starboard reverse lock link. Disassembly Loosen throttle friction control so there is no restriction on grip. Do not back screw out completely. Pry the outer handle. After removing, chip away remnants cable trunnion out of the steering handle and of inner handle. Snap the grip into place. Secure electrical harness with tie strap. 002509 006526 1. Electrical cover 1. Cable anchor 2. Boss 3. Cable retainer Throttle Cable Adjustment 4. Tie strap Place throttle cable in position. Loosen throttle friction control so there is no restriction on grip. Do not back screw out completely. Nut is

under spring tension. 006362 1. Remove con Remove the throttle friction control. Remove inner handle retaining tab. Coat de tent ball, spring a nd guide with Triple Guard grease and install into shif t ha ndle. Place one washer on shift handle mounting boss. 006716 1. Secure tab of the inner h andle into the outer han dle. Tab must be flush with the back of the flange and top of tab must be flush with top of flange. Snap Place th e gu ides over the roller p in a nd into t he the th rottle cable tru nnion into the recess in the slots of the inner handle. Con nect harness to engine wiring harness. DO NOT complete fina l att ach IMPORTANT ment of cables to shif t and throttle levers until all cables, wires, an d h oses have be en routed a nd grommet has been pla ced in to the lower engine. Tighten screw Place t hrottle cab le in position. Use Ball Socket securely. Do not loosen. Drain lubricant before testing. Install keeper if applicable. Install new cotter pin.

During service, the outboard may drop unexpectedly. For ad justment, refer to Trim Tab WATER PUMP SERVICE Adjustment on p. 31. Disassembly Remove the four impeller housing screws. 001996 1. Trim tab screw Place the shift rod in the shift rod lever. Lightly co at the exterior rim of the impeller cup with Gasket Sealing Compound. Install the cup in the impeller housing. Be sure impeller SHIFT ROD key does not fall out of position. DISASSEMBLY PreDisassembly Inspection WARNING Wear safety glasses to avoid personal injury, and set compressed air pressure to less than 25 psi 172 kPa. Remove the screws. smaller thrust washer located in front of the gear. COA3671 1. Dis tered side of the bearing facing the top of t he card the spring. Shift Housing Assembly Remove shif t shaf t, crad le an d shif t leve r. Move shifter detent as need ed to help ease removal of Clean and inspect all parts before IMPORTANT. Pla ce the plate on top of the housing to support the brid ge, and tighten jaws securely behind the inner seal. Discard the Orings. Apply Gasket Sealing Compound to metal casings of the seals before installing. Bearing Installation Oil, then install new bearings in bearing housing. Replace the bearing housing and re peat check if va riance is Shift Housing, Gear, and greater than 0.004 in. Turn the shift rod while pushing it through the cover to avoid damaging the Oring. Do not coat inside Lightly coat the thre ads of a new pinion nut with bearing housing bore surface of the gearcase. Lightly apply Gasket Sealing Compound to th e Oring flange and aft support flange of the bearing housing. In stall and align the trim t ab with the index marks n oted prior to disassembly. Tighten Disassembly the trim t ab screw to a t orque of 35 to 40 f t. Apply a drop of Adhesive 847 in the seal ring groove at each of the four ribs. Do not allow any sealer to get into IMPORTANT the air bleed groove in the impeller housing. Be sure impeller groove, and install the special shaped Oring seal.