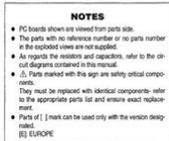


**TEAC**

SERVICE MANUAL

ManualsLib.com  
**PD-H300**

Compact Disc Player



**File Name:** 3jh4e service manual pdf.pdf

**Size:** 1570 KB

**Type:** PDF, ePub, eBook

**Category:** Book

**Uploaded:** 11 May 2019, 15:27 PM

**Rating:** 4.6/5 from 701 votes.

**Status:** AVAILABLE

Last checked: 17 Minutes ago!

**In order to read or download 3jh4e service manual pdf ebook, you need to create a FREE account.**

[\*\*Download Now!\*\*](#)

eBook includes PDF, ePub and Kindle version

[Register a free 1 month Trial Account.](#)

[Download as many books as you like \(Personal use\)](#)

[Cancel the membership at any time if not satisfied.](#)

[Join Over 80000 Happy Readers](#)

### Book Descriptions:

We have made it easy for you to find a PDF Ebooks without any digging. And by having access to our ebooks online or by storing it on your computer, you have convenient answers with 3jh4e service manual pdf . To get started finding 3jh4e service manual pdf , you are right to find our website which has a comprehensive collection of manuals listed.

Our library is the biggest of these that have literally hundreds of thousands of different products represented.



## Book Descriptions:

# 3jh4e service manual pdf

Model 3JH4E has been used for the illustrations in this service manual, but they apply to other models in the JH4 series engines. For accident prevention, it is important to avoid such causes before development to accidents. Please read this manual carefully before starting repair or maintenance to fully understand safety precautions and appropriate inspection and maintenance procedures. Damage to the engine, shortened engine life and or personal injury may result. Check the customer ledger file for the history of the engine. General rules are described here.

Usermaintenance Parts replacement Shopinspection. Unit literpint Dipstick Marine gear oil capacity KM35P Full 0.50 1.0 KM35A Full 0.65 1.4 b When the level is low, remove a filler port cap at the top of the housing, and fill it with marine gear. Increase in the water level of the coolant recovery tank during operation is not abnormal. Before and after starting the engine, check the leakage of cooling water and seawater from cooling water system. To adjust the Vbelt tension, loosen the set bolt for Belt adjuster the belt adjuster and move the alternator to tighten Set bolt the Vbelt. 3 Visually check the Vbelt for cracks, oiliness or wear. Lock nut Use it as the data for estimating the wear state. d Adjusting other cylinders Turn the crankshaft 240 and make adjustment. The cable will become stretched and the attachments loose after long hours of use causing deviation. Air bleeding bolt 1 Close the fuel cock of the fuel tank. Replenish if Insufficient. When fuel, which does not contain air bubbles, comes out of the bolt hole, tighten the air bleeding bolt. GREASE When the amount of fluid nears the lower limit, fill with battery fluid available in the market to the upper limit. Otherwise, it results in engine damage, uneven engine performance and shorten engine life. 3 Replace the engine lube oil and the lube oil filter. <http://nestuby.com/userfiles/columbia-snowblower-manual.xml>

- **3jh4e service manual pdf, 3jh4e service manual pdf, 3jh4e service manual pdf download, 3jh4e service manual pdf free, 3jh4e service manual pdf online, 3jh4e service manual pdf file.**

Model Fresh water line Seawater line 3JH4E Drain cock for Fresh water pump Coolant tank fresh water Drain cock for seawater Drain cock for fresh water Seawater pump. Be sure the cooler hose is securely connected and there is no Rubber hose looseness or damage. When the hose is not watertight, an excessive FULL amount of cooling water will be used. Check whether each connection part doesn't have looseness. Alternator Neutral safety switch Fitting to marine gear Optional Optional C.W. temp. sensor Starter B terminal Battery Battery switch C.W. temp. switch Starter S terminal Optional Starting motor Air heater. Never approach the injection nozzle portion with a hand. The oil jetting out from the nozzle is at a high pressure to cause loss of sight or injury if coming into careless contact with it. Remove the cap only after the water cools down. The thermostat is functioning normally if it starts to open between 75-78 deg C, and opens until 8mm or more at 90 deg C Replace the thermostat if it not functioning normally. When the signs of a trouble appear in the engine or a trouble occurs, grasp the trouble conditions fully by the next point and find out the cause of sincerity according to the troubleshooting. When problems arise, it is important to carefully observe and analyze the indications of trouble in order to save time in determining their cause.

TROUBLE AND TROUBLESHOOTING I1 Add fuel oil and prime. I11 Replace. I2 Bleed air. I12 Clean carefully to insure good working order. I3 Remove water from drain and fuel oil system and prime. I4 Check and make necessary repairs. I5 Clean. Please use them as instructed. 4.2.1 General Handtools Name of tool Illustration Remarks Wrench Size 10 x 13 Wrench Size 12 x 14 Wrench Size 17 x 19. Three Bond 200g Nondrying liquid gasket;. Test indicator Measures narrow and deep places which cannot be measured with dial gauge. Magnetic stand Keeps the dial gauge firmly in position,

thereby permitting it to be used at various

angles. <http://magneticmicrosphere.com/userfiles/columbia-snow-thrower-manual.xml>

Torque wrench Used to tighten bolts and nuts to standard torque. Thickness gauge Measures the distance between the ring and ring groove, and between the shaft and shaft joint at time of assembling. Photoelectric Measures rotation speed by using a type reflector mark which is placed on the Revolving shaft exterior of the revolving shaft. Seawater 2 Remove the mixing elbow from the exhaust manifold. Ltype mixing elbow Gasket Exhaust manifold 7 Removing the starting motor Flywheel housing Remove the starting motor from the flywheel housing. Heat exchanger Mixing elbow Exhaust manifold. NOTE Fuel injection nozzle If the fuel nozzle protector stays in the cylinder head, Bolt make a note of the cylinder number and be sure to remove it when disassembling the cylinder head. Washer 2 Remove the engine mounting feet. Crankshaft Vpully Gear case 23 Removing the crankshaft Vpulley Loosen the bolt tightening the crankshaft Vpulley and remove the crankshaft Vpulley with an extraction tool. Idle gear shaft Idle gear 29 Removing the camshaft 1 Push up tappet by turning a camshaft to remove it from the cylinder block easily. 2 Loosen the thrust metal bolts through the holes of the camshaft gear, and remove. NOTE 1 When mounting the gear case flange, match up the two knock pins for cylinder block. NOTE The thrust metal lower is mounted to the base main bearing cap. 36 Removing the crankshaft 1 Remove the crankshaft. NOTE 1 If the dust remain with the parts, engine may cause the seizing or damage. 2 The cleaning agent removes even carbon adhering to disassembled parts. Lower NOTE Thrust metal 1 The lower main bearing metal does not have an oil hole. NOTE 1 When mounting the gear case flange, match up the two knock pins of the cylinder block. 2 Be sure to coat the Oring for the cylinder block lube oil line with grease when assembling, so that it does not get out of place.

NOTE 1 Insert the piston so that the match mark on the large end of the connecting rod faces the fuel nozzle, and the manufacture's embossed mark on the stem faces toward the flywheel. NOTE The idle gear shaft must be mounted with the mark of the shaft upward. Idle gear shaft 2 Align the "A". Marine gearbox 2 Align the damper disk with the input shaft spline and insert. Mount the marine gearbox to the flywheel housing. NOTE Be careful not to scratch the Oring between the fuel injection pump and gear case flange. The side walls are Cap plug 50 mm save shaped to maximize rigidity for strength and low Camshaft hole Cap plug 30 mm. NOTE Without fail, read the instructions for the color check kit before use. 5.1.4 Replacement of cup plugs Step Description Procedure Tool of material used Clean and remove grease from the hole into Screw driver or saw which the cup plug is to be driven. If crack is suspected, perform color check. Special alloy stellite with superior resistance to heat and wear is fitted on the seats, and the area between the valves is cooled by the water jet. Thoroughly remove all the carbon and dirt after disassembly and carefully inspect all parts. Measure the inside diameter of the valve guide and replace it if it exceeds the wear limit. Free length Valve spring 3 Measure inclination. Inclination Square gauge Valve spring 4 Measure spring tension. The piston pin can be pressed into the piston pin hole at room temperature Coat with oil to make it slide easily. 5.3.2 Piston pin Measure at positions a and b Measure the outer diameter and replace the pin if it is. Measure the thickness and width of the rings, and the ringto groove clearance after installation. Replace if wear exceed the limit. Standard Limit Groove width 2.0602.075 2.170 Width First Ring width 1.9701.990 1.950. The large end with the aluminium metal can be separated into two and the small end has a 2layer copper alloy coil bushing. Standard Limit Connecting rod.

<http://www.drupalitalia.org/node/67039>

Excessive piston pin bushing wear may result in damage to the piston pin or the piston itself. Measure the piston pin bushing inside diameter and the piston pin outside diameter. Crank shaft The crankshaft main veering is of the hanger type. Correct by grinding if unevenly wear, roundness exceeding the limit or insufficient outside diameter is found. The cams have a curve that minimized

the repeated shocks on the valve seats and maximizes valve seat life. The oil clearance shall be calculated by Flywheel side subtracting the measured camshaft outside diameter Micrometer from the inside diameter of the camshaft bearing or bushing. Check the contact of each tappet and replace if excessively or unevenly worn. Pump flange bolts. The cause of the trouble may not necessarily be in the pump itself, but may be in the engine or the fuel system. Clean immediately stops. 2 Fuel filter is clogged. Disassemble and clean, or replace the element Replace packing repair 3 Improper air tightness of the fuel pipe pipe connection. Adjust 2 Injection from nozzle is improper. Adjust Fuel drips after each injection. 3 Injection nozzle starting pressure is too high Adjust 4 Uneven injection. The fuel feed pump is mounted on the side of this engine and is driven by the eccentric cam of the fuel pump camshaft. NOTE Replace parts as an assembly. The fuel filter element must be changed periodically. A fuel return connection is provided on top of the tank of which a rubber hose can be connected to return fuel from the fuel nozzles. Exhaust gas goes into exhaust manifold in the fresh water tank mounted on the cylinder head outlet. When the internal pressure of the crankcase decreases too much due to the damage of a spring, much blowby gas containing oil is reduced in intake air system, and it may cause the combustion defect by the early dirt of the intake valve or the urgent rotation of the engine by the oil burning. The mixing elbow is attached to the exhaust manifold.

<http://kluchevoy.com/images/canon-ixus-850-is-manual-pdf.pdf>

Inner rotor Crankshaft The lube oil flows from the intake filter mounted on the bottom of the cylinder block through the holes in the Pump cover cylinder block and engine plate, and out from the holes. Outside clearance Standard Limit 0.120.21 0.30 Outer diameter clearance 2 Side clearance of outer rotor When measuring a side clearance, put a rightangle gage. The cartridge type filter is easy to remove. To prevent seizure in the event of the filter clogging up, a bypass circuit is provided in the oil filter. The cylinders, cylinder heads and exhaust manifold are cooled with fresh water, and fresh water cooler heat exchanger use seawater. The two kinds of seawater pumps are prepared. The standard one is mounted on the gear case and the other optional is mounted on the gear case flange. Option Seawater pump Pump drive gear. The fresh water pump consists of the pump body, impeller, pump shaft, bearing unit and mechanical seal. It is difficult to disassemble and, once disassembled, even more difficult to reassemble. Thickness gauge Measuring clearance between impeller and pump body bracket. Straightedge Standard Limit Clearance between impeller 0.31.1 and body Clearance between impeller and plate Thickness gauge. The cap is mounted on the filler neck cam by placing it on the rocking tab and rotating. When the filler neck is removed, remove it with being careful not to damage the fresh water cooler, and scrap it. The coolant recovery tank maintains the water level by preventing this discharge of water. The pump can be run continuously for a period of 10 minutes After this time it must shut off for a period of 2 hours before reusing. The hose attached at the nozzle should be 1.8m or less and should reach without any strain, therefore care should be taken in deciding on the best position. Check to be sure that the strainer is in the water before turning on the switch. Problem Cause Countermeasure 1.

<https://jdlwealth.com/images/canon-ixus-80-is-manual.pdf>

Pump does not turn Faulty wiring Check the wiring between the motor and battery. Faulty battery Check to see if the specific gravity of the battery fluid is greater than 1.25. Reduction and Reversing Gear Marine gear KM35P and KM35A are applied to the 3JH4E series engines. Specifications Model. This engineered system of Worse cables, control head and engine connection kits ensures dependable, smooth operation with an absolute minimum of backlash. If they do not coincide, adjust the fittings as necessary first engine side, then controller side. Electrical System 12.1 Electrical System Alternator Neutral safety switch Fitting to marine gear Optional Optional C.W. temp. sensor Starter B terminal Battery Battery switch C.W. temp. switch Starter S terminal Optional Starting motor Air heater Intake manifold Relay Optional Stop solenoid. Battery capacity minimum 12V80AH.

The pinion engages with the ring gear of an engine, and the engine is started. Magnetic Switch Center Bracket A Torsion Spring Shift Lever Brush. It contains diodes that convert AC to DC, and an IC regulator that keeps the generated voltage constant even when the engine speed changes. 12.4.1 Specifications Yanmar code 12827177200 Model of alternator LR160741 HITACHI Check that a belt doesn't touch the bottom part of the pulley groove. If necessary, replace the V belt set. The features are compactness, waterproof and independence from pulse by ring gear teeth number. The engine speed with new panel is activated by alternator B terminal pulse. Oil pressure is measured when the oil enters into the main gallery after being fed from the lube oil cooler and passing through the oil pressure control valve Be sure OPTIONAL. A high thermal expansion material is set on the end of the water temperature unit. The air heater is mounted to the intake manifold. The device is operated by the glow switch on the instrument panel. Air heater Gasket Relay. The device is operated by the stop switch on the instrument panel.

Governor The emergency stop button is integrated with the Stop solenoid solenoid. Model 3JH4E and 4JH4TE have been used for the illustrations in this service manual, but they apply to other models in the JH4 series engines. For accident prevention, it is important to avoid such causes before development to accidents. Please read this manual carefully before starting repair or maintenance to fully understand safety precautions and appropriate inspection and maintenance procedures. Damage to the engine, shortened engine life and or personal injury may result. Check the customer ledger file for the history of the engine. Applicable 4JH4TE 4JH4TE engine model 4JH4HTE Mechanical Hydraulic wet Hydraulic wet Mechanical Mechanical Type wet multiple multiple disk multiple disk cone clutch. Use containers which are clean inside to store fuel oil. The inspection and maintenance shown below are to be performed at Yanmar dealer or distributor. EPA allows to apply Maintenance schedule for Emission related parts as follows. General rules are described here. User maintenance Parts replacement Shop inspection. If seawater doesn't come out, shut down the engine immediately. Check the leakage of seawater in the seawater pass and the damage of the seawater pump impeller. Failure of alarm cannot warn the lack of the engine oil or the coolant. Make it a rule to check the alarm operation before and after starting engine every day. Before and after starting the engine, check the leakage of coolant and seawater from coolant system. Inspection item 1 Drain the fuel tank. 2 Replace the engine lube oil and the lube oil filter. Replace the marine gear lube oil and the lube oil filter. During initial operation, the oil is quickly KM4A contaminated due to the initial wear of internal parts. The lube oil must therefore be replaced early. The cylinder to be adjusted first does not have to be the No.1 cylinder.

[www.uppld.org/wp-content/plugins/formcraft/file-upload/server/content/files/1626a9ab4282f5---casal-benefit-b420-manual.pdf](http://www.uppld.org/wp-content/plugins/formcraft/file-upload/server/content/files/1626a9ab4282f5---casal-benefit-b420-manual.pdf)

Remove the injector to make space for Adjusting Loosen inserting a wrench in order to hold valve screw bridge. Air bleeding bolt 2 Loosen the cartridge type fuel filter by a filter wrench. Drain periodically to keep the filter from becoming clogged. Failure to do so could cause shortcircuiting and fires. When the amount of fluid nears the lower limit, Grease fill with battery fluid available in the market to the upper limit. If operation continues with insufficient battery fluid, the battery life is shortened, and the battery may overheat and Grease. Also, replace the fuel filter after the engine has fully been cooled. Oring 2 Inspect the rubber impeller, checking for splitting around the outside, damage or Impeller cracks, and replace if necessary. Note One drain cock is behind the belt cover only for 3JH4E and 4JH4E. Remove the belt cover and open the cock. Pour until the water overflows from the filler port. Refer to 2.2.15 for the coolant capacity. If the filler cap is loose, hot steam and water will spout out which may cause burns. Wash the blower in the following manner. 1 Prepare blower wash liquid detergent, fresh water, and a small pitcher. Intake silencer Blower wash 4L Blower wash. Because the element filters the air, if it is used over a long period of time it will become clogged and this decreases the amount of intake air, and may also be a cause of decreased

output and poor emission. Check whether each connection part doesn't have looseness. Alternator Neutral safety switch Fitting to marine gear Optional Optional C.W. temp. sensor Starter B terminal Battery Battery switch C.W. temp. switch Starter S terminal Optional Air heater Starting motor. As for the inspection and adjustment. Wax pellet will be damaged by the reaction shock. Remove the spacer and return the C.S.D. lever carefully, while turning the C.S.D. lever by using a screw driver or steel bar. 8 Remove the dial gage, and screw driver or steel bar.

The intercooler only for 4JH4HTE can be inspected by the same way. 1 Cooler core inspection a Inspect the inside of the tubes for rust or scale buildup from seawater, and clean with a wire brush if necessary. Keep the voltameter probes in contact with Oil pressure switch Cylinder block the switch terminal and cylinder block while flywheel side operating the engine. The thermostat is functioning normally if it starts to open between 75-78 deg C, and opens until 8 mm or more at 90 deg Thermostat C. When the signs of a trouble appear in the engine or a trouble occurs, grasp the trouble conditions fully by the next point and find out the cause of sincerity according to the troubleshooting. When problems arise, it is important to carefully observe and analyze the indications of trouble in order to save time in determining their cause. Add fuel oil and prime. Air in fuel oil system and fuel injection pump. Disassemble and clean. Check, repair or replace. Worn plunger. Replace. Replenish oil and check. Replace seal. Phase slippage. Repair link system. Increase injection pressure. Damaged fuel valve spring. Replace. Disassemble and repair or replace. Open closed parts. Trouble with cooling water pump. Check pump and repair. Amount of water returning is too great. Adjust amount of returning water. Clogging in coolant system. Remove and repair or replace. Broken bearing. Replace. Bent turbine shaft. Replace. Loose fixed parts. Tighten. IV Noise Cause and effect Countermeasure. Readjust the timing. The engine cannot reach its 1. The governor spring is too weak Readjust or replace. Please use them as instructed. 4.2.1 General hand tools Name of tool Illustration Remarks Wrench Size 10 x 13 12 x 14 17 x 19 22 x 24 00138500X. Gauge set code No. TOL97190080 00144800X Adapter for direct injection 2valve head. Adapter code No. 11980292950 01033400X Adapter for direct injection 4valve head. Adapter code No. 12990692950 01033400X. Three Bond 200 g Nondrying liquid gasket;.

Note One drain cock is behind the belt cover only for 3JH4E and 4JH4E. Remove the belt cover and open the cock. Drain cocks. Intake silencer Breather hose Rocker arm cover 2 Remove the intake silencer from intake Clamp manifold. Clamp. Ltype mixing elbow Gasket Exhaust manifold. Turbocharger Intake pipes 01053900E 4JH4HTE Intake pipes. Flywheel housing Starting motor 01043600E 10 Removing the alternator 1 Loosen the alternator adjuster bolt and Adjuster Fresh water pump remove the Vbelt. 2 Removing the adjuster from the fresh water pump, and remove the alternator from the gear case with distance piece. Fuel injection nozzle Note If the fuel nozzle protector stays in the. Remove the fuel injection pump and Oring Pump flange from the VE pump bracket, which is fixed to. Flywheel housing Note Be careful not to scratch the ring gear. Flywheel 01043800E 24 Turning the engine over. Gear case flange Gasket Lube oil inlet pipe 01044100E 28 Removing the gear case Loosen the gear case bolts, and remove the gear case from the gear case flange. Note Make sure that cylinder head positioning pins on the cylinder block do not come in contact with the wood block. 01042800X 36 Removing the flywheel housing and oil seal case. Note 1 The thrust metal upper is mounted to the standard main bearing. 2 Remove the main bearing metal upper from the cylinder block. 01043200X 01042900X 39 Removing the tappets Remove the tappets from the tappet holes in the cylinder block. Note 1 If the dust remain with the parts, engine may cause the seizing or damage. 2 The cleaning agent removes even carbon adhering to disassembled parts. Mark Position number of reassembling Standard. Note 1 When mounting the gear case flange, Liquid gasket match up the two knock pins of the cylinder block. Do not position the top 1st piston ring gap ring joint vertical to the piston pin. The coil expander joint shall be opposite to the oil ring joint. The cooling nozzle may warp or be damaged.

Replace the Retainer flange bolt used pipe seal with new one. Fuel injection valve retainer Retainer pedestal 2 Tighten the fuel nozzle retainer bolt to the. Fresh water pipe Seawater pipe Heat exchanger Mixing elbow. Air duct 2 Mount the seawater pipes with the hose clips. 3 Mount the air duct from the intercooler to the intake manifold. Mount the air duct from the turbocharger to the intercooler. The side Camshaft hole Cap plug 30 mm walls are save shaped to maximize rigidity for strength and low noise. If crack is suspected, perform color check. Thoroughly remove all the carbon and dirt after disassembly and carefully inspect all parts. Lapping tool Use a rubber cap type lapping tool for cylinders without a lapping tool groove with oil only. Standard Limit Intake 8.0108.025 Valve guide inside diameter Exhaust 8.0158.030 3JH4E 4JH4E Intake 0.0350.070 0.18 Clearance Exhaust 0.0450.075 0.18 Intake 6.0006.015 Valve guide. The side with the smaller pitch painted Up side yellow should face down cylinder head. Note The pitch of the valve spring is not even. The side with the smaller pitch yellow should face down cylinder head when assembled. Model mark Oil ring Model Mark 3JH4E I.D. mark Size mark I.D. mark Model mark 4JH4E 4JH4 Piston 4JH4TE Piston pin. Piston outside diameter Clearance between Model Standard Limit piston and cylinder 3JH4E 87.95087.960 87.900 0.0450.075 4JH4E 87.93587.945 87.885 0.0600.090 Piston 22 mm bottom 4JH4TE 83.93083.940 83.880. Press on the ring about 30mm from the bottom of the liner. The large end with the aluminium metal can be separated into two and the small end has a 2layer copper alloy coil bushing. Measure the extent of twist and parallelism and replace if Parallelism they exceed the tolerance. The crankshaft main veering is of the hanger type. Correct grinding unevenly wear, roundness exceeding the limit or insufficient outside diameter is found. Replace if the defect is excessive.

Upper main Lower main bearing metal bearing metal 2 Measuring the inner diameter of metal Tighten the cap to the specified torque and Thrust metal. The oil clearance shall be calculated subtracting the measured camshaft outside diameter from the inside diameter of the camshaft bearing or bushing. The camshaft bushing at gear case side is measured with a cylinder gage after insertion to the cylinder. The fuel feed pump is mounted on the side of this engine and is driven by the eccentric cam of the fuel pump camshaft. Make a request to Bosh service shop for them. The flyweight Retaining pin holder holds four flyweights and governor Tension lever sleeve and is supported by the governor. The wax element is integrated into the body of WC.S.D. The engine coolant is led to the wax element and flowing around it. Make a request to Bosh service shop for them. 4JH4TE and 4JH4HTE Adjustment Nozzle type Bosh 1057800060 NPDN0S1510 conditions Nozzle holder. Fuel injection pump 1 Remove fuel injection pipes, fuel pipes and a remote control wire. After removing pipes, block the pipe inlet with tape so that trash Flange may not enter the fuel injection pipes and the fuel injection pump. The cause of the trouble may not necessarily be in the pump itself, but may be in the engine or the fuel system. Tank A fuel return connection is provided on top of the tank of which a rubber hose can be connected to return fuel from the fuel nozzles. It is fed to the intake manifold and then to each cylinder. Therefore blowby gas reductor is Spring Center plate adopted to 3JH4 and 4JH4 naturallyaspirated Diaphragm engines as breather system. There are two types of mixing elbows, the Ltype and the Utype. There are two types of mixing elbows, the Ltype Mixing elbow and the Utype. The oil pressure is regulated by the oil pressure regulating valve equipped with the lube oil pump.

The lube oil, which flows from the holes in the cylinder body to the lube oil cooler, is cooled and sent to the lube oil filter. It is the same procedure for the 4JH4TE and 4JH4HTE lube oil pump as well. 1 Outside clearance of outer rotor. The lube oil is cooled by fresh water. Lube oil cooler 01054500E 4JH4TE. Piston Splash 2 Check the brazed portion of the copper tube for breakage due to vibration. Cylinder block main gallery Piston cooling oil nozzle 01054700E. The temperature of the fresh water is thus kept within the constant temperature range by the thermostat. 4JH4TE 3JH4E and 4JH4E WCS D Coolant Fresh water cooler. Retainer Washer Mechanical seal 2 Remove the side cover and take out the Lip seal Vring. Coat the sliding surface with a good quality silicon oil, taking sufficient

care not to cause any scratches. 2 When replacing the lip seal, coat with grease and insert. The fresh water pump consists of the pump body, Cylinder head impeller, pump shaft, bearing unit and mechanical seal. If the rotation is not smooth or abnormal noise is heard due to excessive bearing play or contact with other parts, replace the pump as an assembly 2 Impeller inspection Check the impeller blade, and replace if damaged or corroded, or if the impeller. Thickness gauge 00158201E Measuring clearance between impeller and pump body bracket. Straightedge Standard Limit Clearance between 0.31.1 impeller and body Clearance between impeller and plate Thickness gauge 00158301E. The cooler core consists of many small diameter Side cover tubes, baffle plates and tube cover. Note Replace the Orings when you have removed the cooler core. 9.4.4 Heat exchanger inspection Refer to 2.2.64. The cap is mounted on the filler neck cam by placing it on the rocking tab and rotating. When the filler neck is removed, remove it with being careful not to damage the fresh water cooler, and scrap it. Note The top of this tube should be under the sealing surface of the filler neck for the pressure cap.

Be sure that the strainer is inserted in the drain water before pushing the switch. The hose attached at Fixing hole Hose the nozzle should be 1.8 m or less and should reach without any strain, therefore care should be taken in deciding on the best position. Check to be sure that the strainer is in the water before turning on the switch. Problem Cause Countermeasure 1. Pump does not turn Faulty wiring Check the wiring between the motor and battery. Faulty battery Check to see if the specific gravity of the battery fluid is greater than 1.25. Also refer to the service manual of the sail drive. 10.1 Specifications of 3JH4E marine gears Model. When the button next to the control lever is pulled out with the lever in the central position, it holds the clutch in the neutral position so that the throttle can be opened all the way and warm up the engine. Emergency stop for 3JH4E and 4JH4E When the engine cant be stopped by the stop button on the panel, the emergency stop Governor. The movement of the clutch lever on the marine gear forward, neutral and reverse must coincide with the forward, neutral and reverse on the control lever. S114817A Nominal power kW Nominal voltage V The Torsion spring pinion engages with the ring gear of a engine, and the engine is started. It contains diodes that convert AC to DC, and an IC regulator that keeps the generated voltage constant even when the engine speed changes. 12.4.1 Specifications Yanmar code 12827177200 Model of alternator LR160741 HITACHI Check that a belt doesnt touch the bottom part of the pulley groove. The engine speed with new panel is activated by alternator P terminal pulse. 12.6.1 Btype instrument panel Selectable optional Lubricating oil low Water in sail. Replace lamp. illuminated when blown out. 2 Lamp not illuminated even when main switch set to main switch set to ON position and terminals of oil pressure switch grounded. A high thermal expansion material is set on the end of the water temperature unit.

<http://www.drupalitalia.org/node/67041>