

Volvo Penta D3 Marine Engine Service Repair Manual

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VOLVO PENTA D3 MARINE ENGINE SERVICE REPAIR MANUAL This manual covers the following model(s): D3-110i-B D3-130i-B D3-160i-B D3-190i-B D3-130A-B D3-160A-B D3-190A-B In this manual you have the following chapters: Safety information Introduction Important General information About this Workshop Manual Standard times (Flat Rate) Spare parts Certified engines Repair instructions Our common responsibility Torque Torque-angle tightening Lock nuts Strength classes Sealant Safety rules for Fluorocarbon Rubber Special tools Other special equipment Location of engine signs Design and function Group 21: Short block Engine, general Engine block Sump Cylinder head Camshaft Valve housing / inlet manifold Crankshaft Pistons Timing gear Crankcase breather Group 22: Lubrication system Oil grades Lubrication system, function description Oil valves Oil pump Oil filter Group 23: Fuel system Fuel system, function description Injection pump Distribution manifold Injectors Fuel filter housing Group 25: Inlet and exhaust system Inlet and exhaust system, function description Turbocharger VNT (Variable Nozzle Turbocharger) Group 26: Cooling system Cooling system, function description Thermostat Circulation pump Sea water pump Intercooler Heat exchanger Oil cooler Oil cooler, steering servo Group 64: Servo system Servo system Servo pump Fault tracing Symptoms and possible causes Malfunctions Blockage Inspection of return flow from injectors Service work Compression test Engine oil, changing Oil filter, change Fuel filter, change Venting the fuel system Air filter, change Cooling system, draining Sea water system, cleaning and conserving Fresh water system, pressure testing Cooling system, filling Sea water pump, impeller, change Drive belt/Alternator belts, inspection Drive belt/Alternator belts, change Cam belt, change Repair instructions When working with chemicals, fuel and lubrication oil Before lifting the engine Before working in a boat Actions after lifting the engine Checking the engine fixture Engine, full overhaul Disassembly, engine Cover Exhaust manifold and turbocharger Fuel filter and housing Intercooler, brackets and dipstick Engine cables Drive belt Sea water pump Servo pump, jockey wheel, left-hand engine mounting Alternator Mounting bracket Vacuum regulator Sensors and monitors Starter motor Fuel leakage hose Delivery pipes High pressure pump Distribution manifold Vacuum pump Injectors Valve cover/inlet manifold Timing gear Circulation pump Oil pump Cylinder head

Flywheel with cover and coupling Oil filter housing Oil cooler Sump Oil suction pipe Piston cooling nozzles Pistons and con rods Crankshaft Assembly, engine Classification of main bearings Crankshaft Piston rings Piston cooling nozzles, pistons, con rods Flywheel, seal ring, clutch and flywheel housing Oil suction pipe and sump Oil cooler Oil pump Toothed belt pulley Cylinder head Valve cover Circulation pump Timing gear Injectors Distribution manifold High pressure pump Fuel supply pipes and fuel leakage hose Fuel union Vacuum pump Plug, hot water outlet Oil filter housing Mounting bracket Drive belt/Alternator belt Vacuum regulator Starter motor Sensors and cables Intercooler and dipstick Fuel filter housing Exhaust pipe with turbocharger Fixture, right engine mounting Coolant pipe Heat exchanger Oil pipe, turbocharger Exhaust pipe elbow Expansion tank Hose connections, air filter housing Cover Overhaul / Change components Group 21: Short block Flywheel, change Gear ring, change Crankcase seal, rear, change Crankshaft seal, front, change Cylinder head, change Cylinder head gasket, measurement Crankshaft, locking Cam belt, change Group 22: Lubrication system When working with chemicals, fuel and lubrication oil Oil pump, change Oil filter housing, change Lube oil pressure, check Group 23: Fuel system Engine control unit, changing Injection pump, changing Injectors and fuel supply pipes, change Pressure limiting valve Fuel suction pressure, checking Fuel pressure sensor, change Group 25: Inlet and exhaust system Turbocharger, inspection Turbo, replacing Exhaust manifold, change Group 26: Cooling system Coolant pump, change Thermostat, function check/change Sea water pump, change Seawater pump, impeller change Sea water pump, seal, change Coolant temperature sensor, replacing Heat exchanger, pressure testing Heat exchanger, replacing Heat exchanger, cleaning/renovation Oil cooler, steering servo, change Intercooler, pressure testing Intercooler, change Intercooler, cleaning/renovation Oil cooler, engine, change Group 30: Electrical (other) Alternator, changing Starter motor, changing Technical data General Short block Inlet and exhaust system Fuel system Lubrication system Cooling system Electrical system Wiring diagram Torque Conversion table References to Service Bulletins Alphabetical register Tags: d3

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