

Paccar MX13 EPA10 Service Manual Contents

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Systems Overview

- General
- Engine basics
- Cooling system
- Lubrication system
- Fuel system
- Inlet/exhaust system
- Aux. parts

Basic Assembly

- adjust valve clearance rocker seat, engine brake
- check and adjust timing
- check clearance crankshaft
- check compression pressure
- check cylinder head, engine
- check engine oil consumption
- check valve clearance
- repair height cylinder liner, STD
- replace 1 (one) cylinder liner, STD
- replace 1 (one) engine piston set
- replace 1 (one) exhaust valve
- replace 1 (one) piston ring set
- replace 1 (one) rocker seat, engine brake
- replace 12 (twelve) exhaust valve
- replace 12 (twelve) inlet valve
- replace 6 (six) cylinder liner, STD
- replace 6 (six) engine piston set
- replace 6 (six) exhaust valve lifter
- replace 6 (six) inlet valve lifter
- replace 6 (six) piston ring set
- replace 6 (six) rocker seat, engine brake
- replace all camshaft bearing
- replace all valve spring
- replace all valve stem seal
- replace all valves
- replace assembly cylinder head, engine
- replace camshaft, engine
- replace crankshaft
- replace crankshaft gear
- replace cylinder head gasket, engine
- replace cylinder head, engine

- replace expansion plug
- replace front crankshaft seal ring
- replace rear engine wiring harness
- replace solenoid valve, engine brake
- replace timing vibration damper
- replace valve cover
- replace valve cover gasket

Fuel System

- check fuel pressure (Fuel system)
- clean injector, PMCI (Fuel system)
- drain fuel system (Fuel system)
- replace 1 (one) fuel injection pipe (Fuel system)
- replace 1 (one) injector, PMCI (Fuel system)
- replace 1 (one) pump unit, PMCI (Fuel system)
- replace 6 (six) fuel injection pipe (Fuel system)
- replace 6 (six) injector, PMCI (Fuel system)
- replace 6 (six) pump unit lifter (Fuel system)
- replace 6 (six) pump unit, PMCI (Fuel system)
- replace fuel filter element (Fuel system)
- replace fuel lift pump, manual (Fuel system)
- replace fuel pressure control valve (Fuel system)

Lubrication System

- check crankcase pressure (Lubrication system)
- check leakage engine oil cooler (Lubrication system)
- check oil pressure with DAVIE (Lubrication system)
- check oil pressure with pressure gauge (Lubrication system)
- replace centrifugal oil filter element (Lubrication system)
- replace crankcase ventilation module (Lubrication system)
- replace engine oil cooler (Lubrication system)
- replace engine oil heater element (Lubrication system)
- replace engine oil pump (Lubrication system)
- replace oil filter element (Lubrication system)
- replace oil module (Lubrication system)
- replace oil temperature sensor (Lubrication system)
- replace sealing rubber, oil sump (Lubrication system)
- replace steel oil sump (Lubrication system)
- replace thermostat, lubricating oil (Lubrication system)

Pulley

- replace idler pulley, poly-V-belt (Pulley)
- replace left-hand (Pulley)
- replace poly-V-belt 12PK (Pulley)
- replace poly-V-belt 7PK (Pulley)
- replace right-hand (Pulley)

- replace vibration damper (Pulley)

Air Intake and Exhaust

- check air leakage (Inlet and exhaust element)
- check turbocharger with VTG (Inlet and exhaust element)
- pressure testing (Inlet and exhaust element)
- replace 6 (six) exhaust manifold gasket (Inlet and exhaust element)
- replace assembly exhaust bracket (Inlet and exhaust element)
- replace assembly exhaust manifold, center (Inlet and exhaust element)
- replace exhaust gasket, turbocharger (Inlet and exhaust element)
- replace oil pipe, delivery side (Inlet and exhaust element)
- replace oil return pipe (Inlet and exhaust element)
- replace turbocharger speed sensor (Inlet and exhaust element)
- replace turbocharger with VTG (Inlet and exhaust element)
- replace VTG turbocharger actuator (Inlet and exhaust element)
- check catalyst, SCR unit (Exhaust muffler)
- check decomposition pipe (Exhaust muffler)
- check dosing valve for DEF (Exhaust muffler)
- clean dosing valve for DEF (Exhaust muffler)
- replace catalyst, SCR (Exhaust muffler)
- replace decomposition pipe (Exhaust muffler)
- replace dosing valve for DEF (Exhaust muffler)
- test dosing valve for DEF (Exhaust muffler)
- replace assembly Diesel Particulate Filter DPF unit (Particulate filter)

Flywheel and Housing

- replace ball bearing, flywheel (Flywheel)
- replace crankshaft seal ring, flywheel housing (Flywheel housing)
- replace flywheel (Flywheel)
- replace flywheel housing (Flywheel housing)
- replace starter ring (Flywheel)

Air Compressor

- check capacity two cylinder air compressor (Air compressor)
- check control two cylinder air compressor (Air compressor)
- replace compressor pipe 01, suction side (Air compressor)
- replace compressor pipe 02, suction side (Air compressor)
- replace cylinder head, compressor (Air compressor)
- replace two cylinder air compressor (Air compressor)

Engine Brake

- check fuel delivery dosing module, fuel (Engine brake)
- check fuel leakage shut-off valve (Engine brake)
- check leakage dosing module, fuel (Engine brake)
- clean dosing module, fuel (Engine brake)
- replace actuator Back Pressure Valve (Engine brake)
- replace air shut-off valve (Engine brake)
- replace assembly Back Pressure Valve with cobra exhaust pipe (Engine brake)

- replace control valve Back Pressure Valve (Engine brake)
- replace dosing module, fuel (Engine brake)
- replace fuel intake module (Engine brake)
- replace fuel shut-off valve (Engine brake)
- replace pressure sensor, fuel intake module (Engine brake)

Electrical

- programming electronic control unit, engine management system (Electrical system, engine)
- replace electronic control unit, engine management system (Electrical system, engine)
- replace engine wiring harness J1 A (Electrical system, engine)
- replace engine wiring harness J3 C (Electrical system, engine)
- replace fuel or coolant temperature sensor (Sensors electrical system, engine)
- replace fuel pressure sensor (Sensors electrical system, engine)
- replace humidity sensor (Sensors electrical system, engine)
- replace lambda sensor (Sensors electrical system, engine)
- replace pressure sensor after BPV (Sensors electrical system, engine)

Aux.

- replace starter motor
- replace steering pump
- replace tandem pump

Maintenance

- maintenance schedule
- perform service A, B, C, D, E, F, G

Misc.

- Engine operator's manual
- Aftertreatment operator's manual