

PACCAR MX Engine Quick Reference Guide

Vehicle - 12 Months 100,000 Miles/160,000 Kilometers

Emissions - 60 Months 100,000 Miles/160,000 Kilometers

Major Components - 60 Months 500,000 Miles/800,000 Kilometers/12,500 Hours

Basic Engine - 24 Months 250,000 Miles/400,000 Kilometers/6,250 Hours

Air Compressor	X			
Air Inlet Clamps, Hose/Pipe (Before & After Turbocharger)	X		X	
Air Inlet Pipe (Mixer)	X		X	
Air Inlet Pipes (Before & After Turbocharger)	X		X	
Alternator				X
Back Pressure Control (BPV) - Air / Fuel Manifold Assembly (Replaceable Filter not Covered):	X		X	
Back Pressure Control Valve - (BPV) (REGEN Valve)	X		X	
Back Pressure Control Valve (BPV) - Control Cylinder	X		X	
Bearings - Camshaft, Connecting rod, and Main	X			
Camshaft	X	X		
Camshaft Follower	X	X		
Charge Air Cooler			X	X
Charge Air Cooler, Hoses and Pipes			X	X
Connecting Rods, Caps and Bolts	X	X		
Crankcase Ventilation Assembly	X		X	
Crankshaft	X	X		
Crankshaft Seal Ring	X			
Cylinder Block Casting, Main Bearing Caps and Bolts	X	X		
Cylinder Block Expansion Plugs	X			
Cylinder Block Heater				X
Cylinder Head Casting and Bolts	X	X		
Cylinder Head Expansion Plugs	X			
Cylinder Head Gasket	X			
Diesel Exhaust Fluid (DEF) Tank			X	X
Diesel Exhaust Fluid (DEF) Lamp			X	X
Diesel Exhaust Fluid (DEF) Pump Module	X		X	
Diesel Exhaust Fluid (DEF) Dosing Module with Injection Nozzle	X		X	
Diesel Exhaust Fluid (DEF) Dosing Module - Wiring Harness	X		X	
Diesel Exhaust Fluid (DEF) Solution Level/Temperature Sensor			X	X
Diesel Exhaust Fluid (DEF) Heater Control Relay			X	X
Diesel Exhaust Fluid (DEF) Heater Coolant Control Valve			X	X
Diesel Exhaust Fluid (DEF) Heated Lines (3)			X	X
Diesel Exhaust Fluid (DEF) Heating Elements			X	X
Diesel Exhaust Fluid (DEF) Heating Fittings (3 on Supply Module)			X	X
Diesel Oxidation Catalyst	X		X	
Diesel Particulate Filter (DPF)	X		X	
DPF Air/ Fuel Manifold Assembly Air, Fuel, and Coolant Lines(Fuel/Air Shutoff Valve)	X		X	

EGR (Exhaust Gas Recirculation) Control Valve	X		X	
EGR (Exhaust Gas Recirculation) Cooler	X		X	
EGR (Exhaust Gas Recirculation) Connecting Bellows & Clamps	X		X	
Electrical Harness Supplied with Engine	X		X	
Aftertreatment ECM	X		X	
Engine ECM (PMCI)	X		X	
Emission System Wiring Harnesses	X		X	
Engine Brake System (PACCAR)	X			
Exhaust Manifold Casting-Front	X		X	
Exhaust Manifold Casting-Middle	X		X	
Exhaust Manifold Casting-Rear	X		X	
Exhaust Manifold Joint Seals, Gaskets, or Rings	X		X	
Exhaust Manifold Wraps or Heat Shields	X			
Exhaust Piping, Clamps, & Gaskets - (Piping After S-Pipe/High Route Pipe to inlet of SCR)			X	X
Exhaust Piping S-Pipe/High Route Pipe After BPV	X		X	
Exhaust Throttle Valve (aka BPV)	X		X	
Fan Belt Tensioner Assembly & Bracket	X			
Flywheel	X			
Flywheel Housing	X	X		
Flywheel Ring Gear	X			
Front Cover	X			
Fuel Common Rail	X		X	
Fuel Control Valve	X		X	
Fuel Unit Pumps (2)	X		X	
Fuel Hand Primer Pump	X			
Fuel Lift Pump	X			
Fuel Filter Module	X			
Fuel Injectors (Cylinder Injectors)	X		X	
Fuel Lines (High Pressure)	X		X	
Fuel Lines (Low Pressure)	X		X	
Fuel Lines (Return)	X		X	
Gaskets, Seals, O Rings, Silicon Sealant (For Engine Supplied Components)	X			
Gears - All (Camshaft, Crankshaft, Idlers, and Oil Pump)	X	X		
Hoses and Lines (Supplied with Engine)	X			
Hydrocarbon Doser Valve (aka Voss valve)	X		X	
Hydrocarbon Doser Injector - (aka DPF Injector)	X		X	
Hydrocarbon Doser Valve - Inline Air Filter	X			
Hydrocarbon Doser Valve - Air, Fuel, and Coolant Lines	X		X	
Ladder Frame	X			
Malfunction Indicator Lamp (MIL)			X	X
Oil Cooler Module (Replaceable Filter Not Covered)	X			
Oil Fill Tube and Cap	X			
Oil Pan	X			

Oil Pump	X			
Pistons, Rings and Liners	X			
Power Steering Pump				X
Pressure Protection Valve and Plumbing to DPF Fuel Injector (aka BPV valve)	X		X	
Pulleys - Engine Belt	X			
PTO drive / FEPTO & REPTO (Front and Rear Engine Mounted PTO Drive)				X
Rocker Arm Assembly and Shafts	X			
Selective Catalytic Reduction (SCR) Catalyst	X		X	
Selective Catalytic Reduction (SCR) Decomposition Pipe & Pipe Elbows	X		X	
Sensor, Ambient Air Temp - Engine Only (Not Outside Air Temp)	X		X	
Sensor, Ammonia	X		X	
Sensor, Camshaft (Engine Position)	X		X	
Sensor, Coolant Temperature	X		X	
Sensor, Crankcase Pressure	X		X	
Sensor, Crankshaft Speed (Engine Timing)	X		X	
Sensor, Delta P (DPF Pressure Sensor)	X		X	
Sensor, DOC (Pre) Temperature	X		X	
Sensor, DOC (Post) Temperature	X		X	
Sensor, DPF Backpressure	X		X	
Sensor, DPF Fuel Pressure	X		X	
Sensor, DPF Air Supply Pressure	X		X	
Sensor, DPF Temperature and Signal Conditioner (aka Temperature Sensor after Turbocharger)	X		X	
Sensor, DPF Pressure (2)	X		X	
Sensor, EGR Differential Pressure	X		X	
Sensor, EGR Temperature	X		X	
Sensor, Engine Oil Pressure and Temperature	X		X	
Sensor, Exhaust Manifold Pressure	X		X	
Sensor, Fuel Pressure and Temperature	X		X	
Sensor, Intake Boost Pressure (aka Intake Manifold & Temperature)	X		X	
Sensor, Intake Temperature	X		X	
Sensor, Intercooler Temperature	X		X	
Sensor, Lambda	X		X	
Sensor, Nox	X		X	
Sensor, Outside Air Temp			X	X
Sensor, Particulate Matter (PM)	X		X	
Sensor, Pressure After Hydrocarbon Doser Valve (After BPV)	X		X	
Sensor, Pressure/Temperature/Humidity before Turbocharger	X		X	
Sensor, SCR Pre - Temperature	X		X	
Sensor, SCR Post - Temperature	X		X	
Sensor, Turbocharger Speed	X		X	
Sensor, Water Pump Speed	X		X	
Sensor, Water in Fuel (WIF - Engine Mounted)	X			
Starter				X

Thermostat (Coolant)	X			
Thermostat Housing (Coolant)	X	X		
Towing - To The Nearest Authorized Dealer, or Other PACCAR Authorized Facility	X			
Turbocharger Assembly	X		X	
Valves, Engine Exhaust and Intake	X			
Valve Cover	X			
Valve Yokes (Bridge) and Pins	X			
Vibration Dampers and Bolts	X			
Wiring Harnesses - Emission System			X	
Water Pump Impeller Assembly	X			
Water Pump Housing	X	X		