

09 - Engine, 3.6L/Specifications

Torque

DESCRIPTION	N·m	Ft. Lbs.	In. Lbs.
Air Inlet Hose - Band Clamps	4	-	35
A/C Compressor to Engine - M8 Bolts	25	18	-
Camshaft Chain Tensioner (Primary) - M6 T30	12	-	106
Camshaft Chain Guide (Primary) - M6 T30	12	-	106
Camshaft Chain Idler Sprocket - M8 T45	25	18	-
Camshaft Chain LH Tensioner (Secondary) - M6 T30	12	-	106
Camshaft Chain LH Guide (Secondary) - M6 T30	12	-	106
Camshaft Chain RH Tensioner (Secondary) - M6 T30	12	-	106
Camshaft Chain RH Guide (Secondary) - M6 T30	12	-	106
Camshaft Position (CMP) Sensor to Cylinder Head - 6M T30	9	-	80
Camshaft Bearing Cap - M6 T30	9.5	-	84
Connecting Rod Cap - M9 Bolts	20 + 90° Turn	15 + 90° Turn	-
Coolant Pump to Engine Timing Cover - M6 Bolts	12	-	106
Coolant Crossover Housing to Engine Timing Cover - M6 Bolts	12	-	106
Coolant Pump to Engine Timing Cover - M10 Bolt	55	40	-
Crankshaft Target Wheel to Counterweight - M6 T30	10	-	89
Crankshaft Outer Main Bearing Cap and Windage Tray - M8 Bolts	21 + 90° Turn	16 + 90° Turn	-
Crankshaft Inner Main Bearing Cap - M11 Bolts	20 + 90° Turn	15 + 90° Turn	-
Crankshaft Side Main Bearing Cap (Tie Bolt) - M8 Bolts	28	-	250
Crankshaft Vibration Damper - M16 Bolt	40 + 105° Turn	30 + 105° Turn	-
Crankshaft Position (CKP) Sensor to Engine Block - M6 Bolt	12	-	106
Crankshaft Rear Oil Seal Retainer - M6 T30	12	-	106

Cylinder Head Oil Restrictor - M8 Plug	15	-	133
Cylinder Head to Engine Block - M12 Bolts in Sequence	See Procedure	-	
Cylinder Head Cover - M6 Bolts	12		
Catalytic Converter to Cylinder Head - M8 Bolts	23	17	-
Engine Coolant Temperature (ECT) Sensor	11	-	97
Engine Block Heater - M6 Bolt	12	-	106
Left/Right Engine Mount Bracket to Engine Block - M10 Bolts	61	45	-
Left/Right Engine Mount Isolator to Engine Mount Bracket - M10 Nuts	61	45	-
Left/Right Engine Mount Heatshield to Engine Mount Bracket - M6 Bolts	12	-	106
Left/Right Engine Mount Isolator to Frame - M10 Bolts	61	45	-
Flexplate to Crankshaft - M10 Bolts	95	70	-
Fuel Rail to Lower Intake Manifold - M6 Bolts	7	-	62
Generator - M8 Bolts	25	18	-
Heater Core Supply Tube to Cylinder Head - M8 Bolt	12	-	106
Idle Pulley to Engine Timing Cover - Accessory Drive M8 Bolt	25	18	-
Ignition Capacitor to Cylinder Head - M6 Bolts	10	-	89
Ignition Coil to Cylinder Head Cover - M6 Bolts	8	-	71
Intake Manifold (Upper) - M6 Bolts	8	-	71
Intake Manifold (Lower) - M6 Bolts	8	-	71
Knock Sensor to Engine Block - M8 T40	22	16	-
Negative Battery Cable to Battery	5	-	45
Oil Control Valve - Cam Phaser M18	150	111	-
Upper Oil Pan to Engine Block - M8 Bolts	25	18	-
Transmission to Upper Oil Pan - M10 Bolts	55	41	-
Transmission to Starter - M10 Bolts	55	41	-
Torque Converter Dust Shield - M8 Bolt	12	-	106
Oil Cooler to Oil Filter Housing Screws	4	-	35

Upper Oil Pan to Rear Seal Retainer - M6 Bolts	12	-	106
Oil Pan Drain - Plug M14	27	20	-
Oil Pressure Sensor to Oil Filter Housing	20	-	177
Oil Temperature Sensor to Oil Filter Housing	20	-	177
Lower Oil Pan to Upper Oil Pan - M6 Bolts	10.5	-	93
Piston Oil Cooler Jet to Engine Block - M5	6	-	53
Oil Filter Housing/Oil Cooler to Engine Block - M6 Bolts	12	-	106
Oil Filter Housing Cap	25	18	-
Oil Pump to Block - M6 Bolts	12	-	106
Oil Level Indicator to Engine Block - M10 Bolt	35	26	-
Oil Level Indicator to Cylinder Head - M6 Bolt	12	-	106
Oil Pump Sprocket - M8 T45	25	18	-
Oil Pump Pick Up Tube Bracket to Windage Tray - M6 Bolt	12	-	106
Oil Pump Pick Up Tube to Oil Pump - M6 Bolt	12	-	106
Oxygen Sensor to Exhaust Pipe - M18	50	37	-
PCV Valve - M5 T25	4	-	35
Power Steering Pump to Bracket - M8 Bolts	25	18	-
Power Steering Pump Bracket to Engine - M8 Bolts	25	18	-
Spark Plug to Cylinder Head - M12	17.5	13	-
Starter Mounting - M10 Bolts	55	41	-
Tensioner to Engine Timing Cover - Accessory Drive M10 Bolt	55	41	-
Thermostat Housing to Coolant Crossover - M6 Bolts	12	-	106
Throttle Body - M6 Bolts	7	-	62
Engine Timing Cover - M6 Bolts	12	-	106
Engine Timing Cover - M8 Bolt	25	18	-
Engine Timing Cover - M10 Bolts	55	41	-
Transmission to Engine Block - M10 Bolts	55	41	-
Transmission Fluid Indicator to Transmission - M6 Bolt	12	-	106
Torque Converter - M8 Bolts	42	31	-

	20	-	177
Upper Intake Manifold Support Bracket to Upper Intake Manifold - M6 Nuts	10	-	89
Variable Valve Timing Solenoid to Cylinder Head Cover - M5 T25	4	-	35
Wire Harness Retainer Bracket to LH Cylinder Head - M6 T30	12	-	106
Rear Engine Mount Bracket to Transmission - M8 Bolts	33	24	-
Rear Engine Mount Isolator to Rear Engine Mount Bracket - M10 Bolts	61	45	-
Rear Engine Mount Crossmember to Frame - M10 Bolts	55	41	-
Rear Engine Mount Isolator to Crossmember - M10 Bolts	61	45	-
Left/Right Crossmember Brace to Crossmember - M8 Bolts	55	41	-
Left/Right Crossmember Brace to Frame - M8 Bolts	55	41	-