

# Engine Mechanical – 8.0L

## Specifications

### Fastener Tightening Specifications

Application	Specification	
	Metric	English
Camshaft Position Sensor Bolt	14 N•m	10 lbs. ft.
Camshaft Retainer Bolt	12 N•m	9 lbs. ft.
Camshaft Sprocket Bolt	30 N•m	22 lbs. ft.
Connecting Rod Nut	85 N•m	63 lbs. ft.
Coolant Drain Hole Plug		
Left Front	60 N•m	44 lbs. ft.
Sides	20 N•m	15 lbs. ft.
Crankshaft Balancer Bolt	115 N•m	85 lbs. ft.
Crankshaft Bearing Cap Bolt	142 N•m	105 lbs. ft.
Crankshaft Position Sensor Bolt	14 N•m	10 lbs. ft.
Cylinder Head Bolt (In Sequence)		
First Pass	41 N•m	30 lbs. ft.
Second Pass	81 N•m	60 lbs. ft.
Third Pass	108 N•m	80 lbs. ft.
Cylinder Head Coolant Hole Plug	23 N•m	17 lbs. ft.
Exhaust Manifold		
Center Bolt	35 N•m	26 lbs. ft.
Nut	16 N•m	12 lbs. ft.
Stud	20 N•m	15 lbs. ft.
Exhaust Manifold Heat Shield		
Bolt	25 N•m	19 lbs. ft.
Nut	25 N•m	19 lbs. ft.
Flywheel Bolt	89 N•m	66 lbs. ft.
Front Cover Bolt	12 N•m	9 lbs. ft.
Ignition Coil Bolt	14 N•m	10 lbs. ft.
Intake Manifold Bolt (In Sequence)		
First Pass	20 N•m	15 lbs. ft.
Second Pass	41 N•m	30 lbs. ft.
Third Pass	41 N•m	30 lbs. ft.
MAP Sensor Bolt	12 N•m	106 lbs. in.
Oil Cooler Hose Fittings	23 N•m	17 lbs. ft.
Oil Filter	38 N•m	12 lbs. ft.
Oil Filter Fitting	66 N•m	49 lbs. ft.
Oil Pan Bolt	25 N•m	18 lbs. ft.
Oil Pan Drain Plug	28 N•m	21 lbs. ft.
Oil Pump Bolt	88 N•m	65 lbs. ft.
Oil Pump Cover Bolt	12 N•m	106 lbs. in.
Oil Pump Drive Bolt	24 N•m	18 lbs. ft.
Spark Plug	30 N•m	22 lbs. ft.

Thermostat Housing Bolt	30 N•m	22 lbs. ft
Valve Lifter Guide Retainer Bolt	24 N•m	18 lbs. ft
Valve Rocker Arm Cover Bolt	14 N•m	10 lbs. ft.
Valve Rocker Arm Stud	47 N•m	35 lbs. ft
Water Pump Bolt	42 N•m	31 lbs. ft
Water Pump Pulley Bolt	25 N•m	19 lbs. ft