

# TORQUE SPECIFICATIONS

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<b>Application</b>	<b>Ft. Lbs. (N.m)</b>
Bellhousing-To-Engine Bolt	28-38 (38-51)
Camshaft Sprocket Bolt	46 (62)
Connecting Rod Cap Nut	26 (35)
Crankshaft Damper Bolt	107 (145)
Cylinder Head Bolt <sup>(1)</sup>	
Step 1	59 (80)
Step 2	Loosen One Full Turn
Step 3	37 (51)
Step 4	68 (92)
Engine Front Cover-To-Block	
6-mm Bolt	(2)
8-mm Bolt	19 (25)
Engine Mount-To-Chassis Bolt	71-94 (96-127)
Engine Mount-To-Engine Bracket Bolt	71-94 (96-127)
Exhaust Manifold Bolt	19 (25)
Fan Clutch-To-Water Pump Nut <sup>(3)</sup>	30-100 (41-137)
Flexplate-To-Converter Bolt	20-34 (27-46)
Flywheel Bolt	59 (80)
Front Crossmember-To-Frame Nut	145-195 (196-264)
Idler Pulley Bolt	30-40 (40-55)
Lower Intake Manifold Bolt <sup>(4)</sup>	
1st Step	11 (15)
2nd Step	18 (24)
Main Bearing Cap Bolt	66 (90)
Oil Pump Bolt	30-40 (40-55)
Rear Mount-To-Crossmember Nut	71-94 (96-127)
Rear Mount-To-Transmission Bolt	60-80 (81-108)
Rocker Arm Bolt	
Step 1	(5)
Step 2	24 (33)
Spark Plug	11 (15)
Starter Bolt	15-20 (20-27)
Upper Intake Manifold Bolt <sup>(6)</sup>	15-22 (20-30)
	<b>INCH Lbs. (N.m)</b>
Camshaft Thrust Plate Bolt	84 (10)
Fuel Rail Bolt	84 (10)
Oil Pan Bolt	84 (10)
Valve Cover Bolt	108 (12)
	84 (10)

## Water Pump Bolt <sup>(7)</sup>

- (1) Tighten bolts in sequence. See **Fig. 5**.
- (2) Tighten to 84 INCH lbs. (10 N.m).
- (3) Left-hand thread.
- (4) Tighten bolts in sequence. See **Fig. 4**.
- (5) Tighten to 96 INCH lbs. (11 N.m).
- (6) Tighten in sequence. See **Fig. 3**.
- (7) Apply sealant to designated bolts. See **Fig. 6**.