

# 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	44-50 (60-68)
Connecting Rod Nut	18-24 (25-32)
Crankshaft Damper-To-Crankshaft Bolt	
Step 1	30-37 (40-50)
Step 2	Additional 80-90°
Cylinder Head Bolt <sup>(1)</sup>	
Step 1	44 (60)
Step 2	59 (80)
Step 3	Additional 80-85°
Engine Mount-To-Crossmember Nut	71-94 (96-127)
Engine Mount-To-Engine Bolt	40-60 (54-81)
Exhaust Manifold Bolt	18 (25)
Fan Clutch <sup>(2)</sup>	30-100 (40-135)
Flexplate-To-Converter Bolt	
Step 1	9-11 (12-15)
Step 2	50-55 (68-74)
Flywheel-To-Crankshaft Bolt	
Step 1	9-11 (12-15)
Step 2	50-55 (68-74)
Front Cover Bolt	13-15 (17-21)
Lower Intake Manifold Bolts/Nuts <sup>(3)</sup>	
Step 1	(4)
Step 2	6-11 (8-15)
Step 3	11-15 (15-21)
Step 4	15-18 (21-25)
Main Bearing Cap Bolt	66-77 (90-104)
Oil Level Sensor	13-20 (17-27)
Oil Pump Retaining Bolt	13-15 (17-21)
Rear Mount-To-Crossmember Nut	65-87 (88-118)
Rear Mount-To-Transmission Bolt	60-80 (81-109)
Rocker Arm Assembly Bolt <sup>(5)</sup>	24 + 90° (32 + 90°)
Starter Bolt	15-20 (20-27)
Transmission Crossmember Bolt	65-87 (88-118)
Upper Intake Manifold Bolt	15-18 (20-25)
	<b>INCH Lbs. (N.m)</b>
Camshaft Thrust Plate Bolt	80-115 (9-13)
Oil Pan Bolt/Nut	62-89 (7-10)
Valve Cover Bolt	54-71 (6-8)

- (1) Using NEW head bolts, tighten in sequence. See **Fig. 4**. Cylinder head must be tightened in sequence with intake manifold. See CYLINDER HEAD under REMOVAL & INSTALLATION.
- (2) Left hand thread.
- (3) Tighten in sequence. See **Fig. 3**.
- (4) Tighten to 35-71 INCH lbs. (4-8 N.m).
- (5) Tighten bolts evenly, 2 turns at a time.