

TORQUE SPECIFICATIONS

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Application	Ft. Lbs. (N.m)
Accelerator Cable Bracket Bolts	16-20 (21-28)
A/C Compressor Bolts	16-20 (21-28)
A/C Compressor Mounting Bolts	
M8 Bolts	35 (48)
M10 Bolts	18 (25)
Bellhousing-To-Engine Bolts	23-39 (38-51)
Camshaft Sprocket Bolt	52-70 (70-95)
Connecting Rod Cap Nuts	
Step 1	Finger Tight
Step 2	26-30 (34-41)
Step 3	31-36 (41-49)
Crankshaft Pulley Bolt	93-121 (125-165)
Cylinder Head Bolts ⁽¹⁾	
Step 1	52 (70)
Step 2	52 (70)
Step 3	Additional 90-100 Degrees
EGR Tube-To-Exhaust Manifold Nuts	25-35 (34-47)
Engine Front Cover Bolts	10-11 (13-16)
Engine Mount Nuts	65-96 (88-130)
Engine-To-Transmission Bolts	23-39 (38-51)
Exhaust Manifold Bolts ⁽²⁾	
Step 1	15-16 (20-23)
Step 2	45-59 (60-80)
Exhaust Pipe-To-Exhaust Manifold Bolts	22-33 (30-45)
Flexplate-To-Converter Bolts	23-39 (31-53)
Flexplate/Flywheel-To-Crankshaft Bolts	54-64 (73-87)
Generator Bracket Bolts	30-41 (41-55)
Generator Mounting Bolts ⁽³⁾	31-39 (41-54)
Intake Manifold Bolts	
Lower	
Step 1	(4)
Step 2	20-28 (26-38)
Upper	
Step 1	(4)
Step 2	20-28 (26-38)
Main Bearing Cap Nuts	
Step 1	Finger Tight
Step 2	51-59 (68-81)
Step 3	76-84 (102-115)
Oil Pump Inlet Tube Bolt	15-22 (20-30)

Oil Pump Sprocket Bolt	52-70 (70-95)
Starter Bolts	17-22 (22-28)
Thermostat Housing Bolts	15-22 (20-30)
Timing Belt Tensioner Adjusting Bolt	26-33 (35-45)
Timing Belt Tensioner Pivot Bolt	30-40 (40-55)
Water Pump Bolts	15-20 (20-30)
Water Pump Pulley Bolts	13-17 (17-23)
	INCH Lbs. (N.m)
Camshaft Position Sensor	45-61 (5-7)
Camshaft Thrust Plate Bolt	71-106 (8-12)
Cooling Fan-To-Clutch Bolts	79 (9)
Crankshaft Position Sensor Bolts	71-106 (8-12)
Oil Pan-To-Block Bolts	127-141 (14-16)
Oil Pressure Sensor	13 (18)
Oil Pump-To-Block Bolts	89-123 (10-14)
Spark Plugs	84-180 (9-20)
Timing Belt Inner Cover Bolts	71-106 (8-12)
Timing Belt Inner Cover Studs	(5)
Timing Belt Outer Cover Bolts	71-106 (8-12)
Valve Cover Bolts	80-115 (9-13)
Water Pump Inlet Bolts	80-106 (9-12)

- (1) Tighten in sequence (in 3 steps). See **Fig. 5** .
- (2) Tighten in sequence (in 2 steps). See **Fig. 4** .
- (3) Tightening in sequence. See **Fig. 2** .
- (4) Tighten bolts in sequence to 62-88 inch lbs. (7-10 N.m) See **Fig. 3** .
- (5) Tighten bolts to 15-22 ft. lbs. (20-30 N.m)