

Accelerator position sensor-to-brake bracket 80 lb-in
Brake booster-to-pedal box nuts 14 lb-ft
Brake pedal pushrod nut 89 lb-in
Chassis-to-engine mount bolt 48 lb-ft
Chassis-to-transmission mount bolts 48 lb-ft
Clutch pedal pivot nut 89 lb-in
Clutch pedal bracket nuts 89 lb-in
Rear control arm bolts 41 lb-ft
Front transmission mount-to-engine bolt 66 lb-ft
Front transmission mount-to-subframe through bolt 74 lb-ft
Horn bracket bolt 89 lb-in
Master cylinder-to-brake booster nuts 18 lb-ft
Pedal box bolts 18 lb-ft
Positive battery cable-to-fuse block 13 lb-ft
Positive battery cable-to-starter solenoid 13 lb-ft
Power steering bracket-to-frame bolts 44 lb-ft
Rear control arm-to-frame bolts 100 lb-ft
Rear transmission mount-to-subframe bolt 44 lb-ft
Rear transmission mount-to-subframe through bolt 74 lb-ft
Steering rack bolts 81 lb-ft
Upper/lower front control arm bolts 90 lb-ft
Upper/lower front shock bolts 30 lb-ft
Rod end mounting plate bolts 33 lb-ft
Steering arm bolts 33 lb-ft
Upper/lower rod end bolts 100 lb-ft
Tie rod nut 50 lb-ft
Bearing hub nuts 50 lb-ft
Brake caliper bracket bolts 85 lb-ft
Brake caliper guide pin bolts 25 lb-ft
Brake caliper banjo bolt 35 lb-ft
Exhaust pipe nut 37 lb-ft
Steering knuckle to rear bearing hub bolts 85 lb-ft
Steering wheel nut 30 lb-ft
Lower shock mount to steering knuckle bolts 89 lb-ft
Steering knuckle ball stud pinch bolt and nut 37 lb-ft
Brake caliper bleeder valve 97 lb-in
Wheel drive shaft nut (CV Axle nut) 159 lb-ft
Wheel lug nuts 100 lb-ft

A/C Compressor to Block Bolt

20 N·m

15 lb ft

Accessory Drive Belt Tensioner Bolt

32 N·m

24 lb ft

Balance Shaft Adjustable Chain Guide Bolt

15 N·m

11 lb ft

Balance Shaft Bearing Carrier to Block Bolt

10 N·m

89 lb in

Balance Shaft Fixed Chain Guide Bolt

15 N·m

11 lb ft

Balance Shaft Sprocket Bolt

50 N·m

37 lb ft

Baro Sensor and Coolant Return Line Assembly

8 N·m

71 lb in

Boost Solenoid Bracket Nut

10 N·m

89 lb in

Cam Cover to Cylinder Head Bolt

8 N·m

71 lb in

Cam Cover to Ground Cable Bolt

10 N·m

89 lb in

Cam Cover to Ground Cable Stud

10 N·m

89 lb in

Cam Sensor Bolt

8 N·m

71 lb in

Camshaft Position Sensor Housing Stud

22 N·m

16 lb ft

Camshaft Bearing Cap Bolt

10 N·m

89 lb in

Camshaft Sprocket Bolt

•First Pass

85 N·m

63 lb ft

•Final Pass

30 degrees

Camshaft Timing Chain Tensioner

75 N·m

55 lb ft

Chain Guide Access Hole Plug

90 N·m

59 lb ft

Connecting Rod Bolts

•First Pass

25 N·m

18 lb ft

•Final Pass

100 degrees

Crankshaft Bearing Lower Crankcase to Block Bolts

•First Pass

20 N·m

15 lb ft

•Final Pass

70 degrees

Crankshaft Position Sensor Bolt

8 N·m

71 lb in

Crankshaft Position Sensor Housing Studs

22 N·m

16 lb ft

Crankshaft Pulley Bolt

- First Pass

100 N·m

74 lb ft

- Final Pass

75 degrees

Cylinder Head Bolt

- First Pass

30 N·m

22 lb ft

- Final Pass

155 degrees

Cylinder Head Front Chaincase Bolt

35 N·m

26 lb ft

Cylinder Head Oil Gallery Plug

35 N·m

26 lb ft

Dipstick Guide to Intake Manifold Bolt

10 N·m

89 lb in

Elek. ICM Cover Bolt

8 N·m

71 lb in

Engine Coolant Temperature Sensor

22 N·m

16 lb ft

Engine Lift Bracket Front Bolt

25 N·m

18 lb ft

Engine Lift Bracket Rear Bolt

25 N·m

18 lb ft

Engine Mount Intermediate Bracket Bolts

100 N·m

74 lb ft

Engine Mount to Intermediate Bracket Bolts

50 N·m

37 lb ft

Engine Mount to Mid-Rail Nuts

100 N·m

74 lb ft

Exhaust Manifold to Cylinder Head Nut

12 N·m

106 lb in

Exhaust Manifold to Cylinder Head Stud

10 N·m

89 lb in

Exhaust Manifold Pipe Flange Stud

16 N·m

12 lb ft

Exhaust Takedown Pipe Nuts

30 N·m

22 lb ft

Flywheel (SMT) Bolt

•First Pass

53 N·m

39 lb ft

•Final Pass

25 degrees

Frame Bolts

•First Pass

100 N·m

74 lb ft

•Second Pass

180 degrees

Front Cover to Block Bolt

25 N·m

18 lb ft

Front Lift Bracket Bolt

25 N·m

18 lb ft

Fuel Feed Line

14 N·m

124 lb in

Fuel Feed Line and Injector Harness Bracket

10 N·m

89 lb in

Fuel Line Bracket Bolt

10 N·m

89 lb in

Fuel Pipe Bracket Bolt

10 N·m

89 lb in

Fuel Rail Bracket Stud

10 N·m

89 lb in

Generator Bracket Bolt

42 N·m

31 lb ft

Generator Connector Nut

20 N·m

15 lb ft

Generator to Block Bolt

20 N·m

15 lb ft

Heat Shield to Exhaust Manifold Bolt

23 N·m

17 lb ft

Idler Pulley

22 N·m

16 lb ft

Ignition Coil Bolt

8 N·m

71 lb in

Intake Camshaft Rear Cap Bolt

25 N·m

18 lb ft

Intake Manifold to Cylinder Head Bolt

25 N·m

18 lb ft

Intake Manifold to Cylinder Head Nut

25 N·m

18 lb ft

Intake Manifold to Cylinder Head Stud

6 N·m

53 lb in

Knock Sensor Bolt

25 N·m

18 lb ft

Lower Crankcase to Block Peripheral Bolts

25 N·m

18 lb ft

Oil Bypass Tube

22 N·m

16 lb ft

Oil Cooler

22 N·m

16 lb ft

Oil Filter Housing Cover

25 N·m

18 lb ft

Oil Gallery Plug

35 N·m

26 lb ft

Oil Gallery Plug – Rear

60 N·m

44 lb ft

Oil Level Indicator Tube Bolt

10 N·m

89 lb in

Oil Pan Drain Plug

25 N·m

18 lb ft

Oil Pan to Block Bolts

25 N·m

18 lb ft

Oil Pressure Sensor

18 N·m

13 lb ft

Oil Pump Gerotor Cover Bolt

6 N·m

53 lb in

Oil Pump Pressure Relief Valve Plug

40 N·m

30 lb ft

Oxygen Sensor

42 N·m

31 lb ft

Power Steering Pump Blockout Plate Bolts

25 N·m

18 lb ft

Rear Lift Bracket Bolt

22 N·m

16 lb ft

Spark Plug

20 N·m

15 lb ft

Starter Motor to Block Bolt

40 N·m

30 lb ft

Starter Terminal Nut

17 N·m

13 lb ft

Supercharger Bolts

25 N·m

18 lb ft

Thermostat Housing to Block Bolts

10 N·m

89 lb in

Throttle Body Bolt

10 N·m

89 lb in

Timing Chain Adjustable Guide Bolt

10 N·m

89 lb in

Timing Chain Fixed Guide Bolt

15 N·m

11 lb ft

Timing Chain Oil Nozzle Bolt

10 N·m

89 lb in

Timing Chain Upper Guide Bolt

10 N·m

89 lb in

Torque Converter Bolts

62 N·m

46 lb ft

Transmission to Engine Bolts

75 N·m

55 lb ft

Vent Tube to Cylinder Head

15 N·m

11 lb ft

Water Pipe Support Bracket Bolt

10 N·m

89 lb in

Water Pump Access Cover Bolt

7 N·m

62 lb in

Water Pump/Balance Shaft Chain Tensioner Bolt

10 N·m

89 lb in

Water Pump Bolts

25 N·m

18 lb ft

Water Pump Drain Plug

20 N·m

15 lb ft

Water Pump Sprocket Bolt

10 N·m

89 lb in