

2010 Chevrolet Corvette | [Corvette \(VIN Y\) Service Manual](#) | [Engine](#) | [Engine Mechanical - 4.8L, 5.3L, 6.0L, 6.2L, or 7.0L](#)
 | [Specifications](#) | **Document ID: 2296270**

Fastener Tightening Specifications (6.2L LS3)

Application	Specification	
	Metric	English
Camshaft Position (CMP) Sensor Bolt	12 N·m	106 lb in
CMP Sensor Wire Harness Bolt	12 N·m	106 lb in
Camshaft Retainer Bolts – Hex Head Bolts	25 N·m	18 lb ft
Camshaft Retainer Bolts – TORX® Head Bolts	15 N·m	11 lb ft
Camshaft Sprocket Bolt – First Pass – Single Bolt Design	75 N·m	55 lb ft
Camshaft Sprocket Bolt – Final Pass – Single Bolt Design	50 degrees	
Camshaft Sprocket Bolts – 3 Bolt Design	30 N·m	22 lb ft
Clutch Pressure Plate Bolts	70 N·m	52 lb ft

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Connecting Rod Bolts – First Pass	20 N·m	15 lb ft
Connecting Rod Bolts – Final Pass	85 degrees	
Coolant Air Bleed Pipe and Cover Bolts	12 N·m	106 lb in
Coolant Temperature Sensor	20 N·m	15 lb ft
Crankshaft Balancer Bolt – Step 1	150 N·m	111 lb ft
Crankshaft Balancer Bolt – Step 2	Loosen 360 degrees	
Crankshaft Balancer Bolt – Step 3	80 N·m	59 lb ft
Crankshaft Balancer Bolt – Step 4 – Without Z52	125 degrees	
Crankshaft Balancer Bolt – Step 4 – With Z52 Dry Sump Option	200 degrees	

Crankshaft Bearing Cap M8 Bolts – First Pass in Sequence	20 N·m	15 lbft
Crankshaft Bearing Cap M8 Bolts – Final Pass in Sequence	30 N·m	22 lbft
Crankshaft Bearing Cap M10 Bolts – First Pass in Sequence	20 N·m	15 lbft
Crankshaft Bearing Cap M10 Bolts – Final Pass in Sequence	80 degrees	
Crankshaft Bearing Cap M10 Studs – First Pass in Sequence	20 N·m	15 lbft
Crankshaft Bearing Cap M10 Studs – Final Pass in Sequence	51 degrees	
Crankshaft Bearing Cap M8 Bolts	25 N·m	18 lbft
Crankshaft Oil Deflector Nuts	25 N·m	18 lbft
Crankshaft Position (CKP) Sensor Bolt	25 N·m	18 lbft
Crankshaft Rear Oil Seal Housing Bolts	30 N·m	22 lbft

Cylinder Head M11 Bolts – First Pass in Sequence	30 N·m	22 lb ft
Cylinder Head M11 Bolts – Second Pass in Sequence	90 degrees	
Cylinder Head M11 Bolts – Final Pass in Sequence	70 degrees	
Cylinder Head M8 Bolts – in Sequence	30 N·m	22 lb ft
Cylinder Head Coolant Plug	20 N·m	15 lb ft
Engine Block Coolant Drain Hole Plug	60 N·m	44 lb ft
Engine Block Oil Gallery Plug	60 N·m	44 lb ft
Engine Mount to Front Suspension Cross Member Nut	58 N·m	43 lb ft
Engine Mount-to-Mount Bracket Nut	100 N·m	74 lb ft
Engine Oil Tank Bolts – with Z52 Dry Sump Option	25 N·m	18 lb ft

Engine Oil Tank Bracket Bolts – with Z52 Dry Sump Option	25 N·m	18 lb ft
Engine Oil Tank Clamp Nut – with Z52 Dry Sump Option	21 turns	
Engine Oil Tank Transfer Tube Fittings – with Z52 Dry Sump Option	35 N·m	25 lb ft
Engine Oil Temperature Sensor – with Z52 Dry Sump Option	20 N·m	15 lb ft
Evaporative Emission (EVAP) Canister Purge Solenoid Valve Bolt	50 N·m	37 lb ft
Exhaust Manifold Bolts – First Pass	15 N·m	11 lb ft
Exhaust Manifold Bolts – Final Pass	20 N·m	15 lb ft
Exhaust Manifold Heat Shield Bolts	12 N·m	106 lb in
Exhaust Manifold Stud	20 N·m	15 lb ft
Flywheel Bolts – First Pass	20 N·m	15 lb ft

Flywheel Bolts – Second Pass	50 N·m	37 lb ft
Flywheel Bolts – Final Pass	100 N·m	74 lb ft
Front Cover Bolts	25 N·m	18 lb ft
Fuel Injection Fuel Rail Bolts	10 N·m	89 lb in
Ignition Coil Bracket-to-Valve Rocker Arm Cover Stud	12 N·m	106 lb in
Ignition Coil-to-Bracket Bolts	10 N·m	89 lb in
Intake Manifold Bolts – First Pass in Sequence	5 N·m	44 lb in
Intake Manifold Bolts – Final Pass in Sequence	10 N·m	89 lb in
J41798 M8 Bolt	25 N·m	18 lb ft

J41798 M10 Bolts	50 N·m	37 lbft
Knock Sensor Bolts	25 N·m	18 lbft
Motor Mount Bracket Bolts	50 N·m	37 lbft
Oil Filter	30 N·m	22 lbft
Oil Filter Fitting	55 N·m	40 lbft
Oil Level Indicator Tube Bolt	25 N·m	18 lbft
Oil Level Sensor	13 N·m	115 lbin
Oil Pan Closeout Cover Bolt – Left Side	9 N·m	80 lbin
Oil Pan Closeout Cover Bolt – Right Side	9 N·m	80 lbin
Oil Pan Cover Bolts	12 N·m	106 lbin

Oil Pan Drain Plug	25 N·m	18 lbft
Oil Pan M6 Bolts – Oil Pan-to-Rear Oil Seal Housing	12 N·m	106 lb in
Oil Pan M8 Bolts – Oil Pan-to-Engine Block and Oil Pan-to-Front Cover	25 N·m	18 lbft
Oil Pressure Sensor	35 N·m	26 lbft
Oil Pump Cover Bolts – without Z52	12 N·m	106 lb in
Oil Pump Cover Bolts – with Z52 Dry Sump Option	10 N·m	89 lb in
Oil Pump Relief Valve Plug	14 N·m	124 lb in
Oil Pump Screen-to-Oil Pump Bolt – without Z52	12 N·m	106 lb in
Oil Pump Suction Pipe-to-Oil Pan Bolts – with Z52 Dry Sump Option	12 N·m	106 lb in
Oil Pump-to-Engine Block Bolts	25 N·m	18 lbft

Spark Plugs	15 N·m	11 lb ft
Throttle Body Bolts	10 N·m	89 lb in
Timing Chain Dampener Bolts – with Z52 Dry Sump Option	25 N·m	18 lb ft
Timing Chain Tensioner Bolts – without Z52	30 N·m	22 lb ft
Valley Cover Bolts	25 N·m	18 lb ft
Valve Lifter Guide Bolts	12 N·m	106 lb in
Valve Rocker Arm Bolts	30 N·m	22 lb ft
Valve Rocker Arm Cover Bolts	12 N·m	106 lb in
Water Inlet Housing Bolts	15 N·m	11 lb ft

Water Pump Bolts – First Pass	15 N·m	11 lb ft
Water Pump Bolts – Final Pass	30 N·m	22 lb ft