

2022 CHEVROLET CORVETTE SERVICE MANUAL

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Fastener Specifications

Single Use Non-Threaded Fasteners/Components

Application
Note:
All fasteners/components listed in this table MUST BE DISCARDED and replaced with NEW after removal.
Air Conditioning Compressor Belt
Camshaft Position Actuator Magnet Gasket
Camshaft Position Sensor Oil Seal Ring
Camshaft Position Sensor Seal
Combustion Fuel Injector Seal
Crankshaft Front Oil Seal
Crankshaft Rear Oil Seal
Crankshaft Rear Oil Seal Housing Gasket
Cylinder Head Gasket
Direct Fuel Injector Hold Down Clamp
Engine Block Valley Cover Gasket
Engine Coolant Thermostat Housing Gasket
Engine Oil Cooler Core Seal
Engine Oil Cooler Seal
Exhaust Manifold Gasket
Fuel Feed Intermediate Pipe " Position 1
Fuel Feed Intermediate Pipe " Position 2
Fuel Injection Fuel Rail Seal
Fuel Injector Seal
Fuel Injector Seal Spacer
Fuel Injector Seal
Fuel Pump Gasket
Intake Manifold Gasket
Oil Filler Cap Seal
Oil Filler Tube Seal
Oil Level Indicator Tube Seal
Oil Pan Front Seal
Oil Pan High Pressure Port Seal
Oil Pump Housing Gasket
Lower Oil Pan
Positive Crankcase Ventilation Tube Seal
Throttle Body Gasket
Valve Rocker Arm Cover Gasket
Water Pump and Generator Belt
Water Pump Gasket
Wiring Harness Connector Seal

Single Use Threaded Fastener/Component Tightening Specifications Crankshaft and Bearing Removal and Installation

Cylinder Head Replacement - Left Side

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Cylinder Head Replacement - Right Side

Exhaust Manifold Replacement - Left Side

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Exhaust Manifold Replacement - Right Side

Flywheel Dampener Replacement

Application	Specification
	Metric (English)
Note:	
All fasteners/components listed in this table MUST BE DISCARDED and replaced with NEW after removal.	
Camshaft Position Actuator Solenoid Valve	
• First Pass:	65 N-m (48 lb ft)
• Final Pass:	90 degrees
Connecting Rod Bolt	
• First Pass:	20 N-m (15 lb ft)
• Final Pass:	85 degrees
Crankshaft Balancer Bolt	
• First Pass:	150 N-m (111 lb ft)
• Second Pass:	Loosen 360 degrees
• Third Pass:	80 N-m (59 lb ft)
• Final Pass:	125thinsp;degrees
Crankshaft Bearing Cap Bolt	
Cylinder Head Bolt	•
Engine Mount Fastener	
• First Pass:	58 N-m (43 lb ft)
• Final Pass:	60-75insp;degrees
Exhaust Manifold Bolt	•
Fuel Feed Intermediate Pipe Fitting	30 N-m (22 lb ft)
Flywheel Bolt	
Oil Filter	3/4 to 1 full turn after gasket makes contact with the sealing surface on the filter mounting flange

Reusable Threaded Fastener Tightening Specifications Engine Block Valley Cover Replacement

Intake Manifold Replacement

Oil Pan Replacement

Oil Pan Replacement

Oil Pan Replacement

Oil Pan Replacement

Valve Rocker Arm Cover Replacement - Left Side

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Valve Rocker Arm Cover Replacement - Right Side

Application	Specification
	Metric (English)
Note:	
All fasteners listed in this table can be reused after removal.	
Camshaft Position Actuator Magnet Bolt	10 N-m (7 lb ft)
Camshaft Position Sensor Bolt	8.5 N-m (75 lb in)
Camshaft Retainer Bolt – TORX Head Bolt	15 N-m (11 lb ft)
Crankshaft Balancer Bolt – Installation Pass with Used Bolt – to Ensure the Balancer is Completely Installed	330 N-m (244 lb ft)
Crankshaft Oil Deflector Bolt	8.5 N-m (75 lb in)
Crankshaft Position Sensor Bolt	25 N-m (18 lb ft)
Crankshaft Rear Oil Seal Housing Bolt	25 N-m (18 lb ft)
Drive Motor Oil Filler Hole Plug	30 N-m (22 lb ft)
Engine Block Coolant Drain Hole Plug	60 N-m (44 lb ft)
Engine Block Oil Gallery Plug	30 N-m (22 lb ft)
Engine Block Valley Cover Bolt	
Engine Coolant Temperature Sensor	28 N-m (21 lb ft)
Engine Coolant Manifold Bolt	25 N-m (18 lb ft)
Engine Front Cover Bolt	25 N-m (18 lb ft)
Engine Mount Frame Side Nut	58 N-m (43 lb ft)
Engine Oil Cooler Adapter Bolt	25 N-m (18 lb ft)
Engine Oil Cooler Bolt	10 N-m (89 lb in)
Engine Oil Level and Temperature Sensor Bolt	10 N-m (89 lb in)
Engine Oil Pressure Sensor	35 N-m (26 lb ft)
Engine Oil Tank Heat Shield	10 N-m (89 lb in)
Engine Oil Tank	45 N-m (33 lb ft)
Engine Wiring Harness Bracket Bolt	9 N-m (80 lb in)
Evaporative Emission Canister Purge Solenoid Valve Bolt	10 N-m (89 lb in)
Exhaust Manifold Heat Shield Bolt	10 N-m (89 lb in)
Fuel Feed Pipe Bolt	10 N-m (89 lb in)
Fuel Injection Fuel Rail Fuel Pressure Sensor	33 N-m (24 lb ft)
Fuel Injection Fuel Rail Bolt	25 N-m (18 lb ft)
Fuel Feed Intermediate Pipe Bolt	10 N-m (89 lb in)
Fuel Pump Bolt	25 N-m (18 lb ft)
Generator Bracket Bolt	50 N-m (37 lb ft)
Ignition Coil Bolt	5 N-m (44 lb in)
Ignition Coil Bracket Bolt	25 N-m (18 lb ft)
Ignition Coil Bracket Bolt	5 N-m (44 lb in)
Intake Manifold Bolt	
Intake Manifold Cover Bolt	9 N-m (80 lb in)
Knock Sensor Bolt	25 N-m (18 lb ft)
Manifold Absolute Pressure Sensor Bolt – Intake Manifold	4.5 N-m (40 lb in)
Oil Filter Adapter Fitting	55 N-m (41 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 Bolt – Oil Pan-to-Rear Housing	
Oil Pan Bolt – Oil Pan-to-Engine Block	
Oil Pan Bolt - Oil Pan-to-Engine Front Cover (Except under Balancer)	
Oil Pan Bolt - Oil Pan-to-Engine Front Cover (Under Balancer)	
Oil Pump Bolt @ Engine Block - Upper	10 N-m (89 lb in)
Oil Pump Bolt @ Engine Block - Lower	25 N-m (18 lb ft)
Oil Pump Suction Pipe Bolt @ Oil Pump - Upper	8.5 N-m (75 lb in)
Oil Pump Sprocket Bolt	25 N-m (18 lb ft)
Piston Oil Nozzle Bolt	20 N-m (15 lb ft)

Application	Specification
	Metric (English)
Positive Crankcase Ventilation Tube Bolt @ Valve Rocker Arm Cover - Right Side	10 N-m (89 lb in)
Positive Crankcase Ventilation Oil Separator Bolt	10 N-m (89 lb in)
Spark Plug	20 N-m (15 lb ft)
Starter Bracket Fastener @ Engine Block	25 N-m (18 lb ft)
Starter Bracket Fastener @ Starter	25 N-m (18 lb ft)
Timing Chain Tensioner Bolt - Lower	25 N-m (18 lb ft)
Timing Chain Tensioner Bolt - Upper	10 N-m (89 lb in)
Valve Lifter Follower Guide Bolt	12 N-m (106 lb in)
Valve Rocker Arm Bolt	30 N-m (22 lb ft)
Valve Rocker Arm Cover Bolt	•
Valve Rocker Arm Oil Control Solenoid Valve Bolt	10 N-m (89 lb in)
Valve Rocker Arm Oil Control Solenoid Valve Extension Harness Bolt	25 N-m (18 lb ft)

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