

## 09 - Engine, 5.7L / Technical Specifications

## TORQUE SPECIFICATIONS

## ENGINE BLOCK

DESCRIPTION	N·m	Ft. Lbs.	In. Lbs.	COMMENT
Camshaft Phaser Bolt	98	72	—	
Camshaft Tensioner Plate Bolts	28	21	—	
Camshaft Thrust Plate Bolts	13	10	—	
Coolant Drain Plugs ¼ x 18 NPT	34	25	—	
Connecting Rod Cap Bolts	20 plus 90° Turn	—	177 plus 90° Turn	Do not reuse these fasteners. If removed, a <b>NEW</b> fastener must be installed and tightened to specifications.
Crankshaft Main Bearing Cap Bolts	<a href="#">(Refer to 09 - Engine/Engine Block/CRANKSHAFT - Installation).</a>			
Exhaust Variable Valve Timing Solenoid Bolt	11	8	—	
Lifting Stud	55	41	—	
Lifter Guide Holder	12	9	—	
Oil Pan Bolts	<a href="#">(Refer to 09 - Engine/Lubrication/PAN, Oil/Installation).</a>			Do not reuse these fasteners. If removed, a <b>NEW</b> fastener must be installed and tightened to specifications.
Oil Dipstick Tube	11	8	—	

DESCRIPTION	N·m	Ft. 21.bs.	In. Lbs.	COMMENT
Oil Filter Adapter	28		—	
Oil Filter	14	10	—	
Oil Gallery Plugs ¼ x 18 NPT	20	—	177	
Oil Pan Drain Plug	27	20	—	
Oil Pressure Sensor	15	11	—	
Oil Pump Bolts	<a href="#">(Refer to 09 - Engine/Lubrication/PUMP, Engine Oil/Installation).</a>			
Oil Pump Cover Bolts.	15	11	—	
Oil Pump Pickup Tube Bolt	22	16	—	
Oil Pump Pickup Tube Nut	22	16	—	
Oil Temperature Sensor	50	37	—	
Plugs 3/8 x 18 NPT	27	20	—	
Rear Seal Retainer Attaching Bolts	15	—	133	
Timing Chain Guide Bolts	11	8	—	
Timing Chain Tensioner Bolts	11	8	—	

### CYLINDER HEAD

DESCRIPTION	N·m	Ft. Lbs.	In. Lbs.	COMMENT
Cylinder Head Bolts	<a href="#">(Refer to 09 - Engine/Cylinder Head - Installation).</a>			
Cylinder Head Cover Bolts	<a href="#">(Refer to 09 - Engine/Cylinder Head/COVER(S), Cylinder Head/Installation).</a>			
Exhaust Manifold Bolts	25	18	—	
Exhaust Manifold Heat Shield Bolts	8	—	71	
Ignition Coil Bolts	7	—	62	
Intake Manifold Bolts	<a href="#">(Refer to 09 - Engine/Manifolds/MANIFOLD, Intake - Installation).</a>			
Rocker Arm Bolts	<a href="#">(Refer to 09 - Engine/Cylinder Head/ROCKER ARM, Valve/Installation).</a>			

### FRONT ENGINE

DESCRIPTION	N·m	Ft. Lbs.	In. Lbs.	COMMENT
Coolant Tube Bolt	12	9	—	
Timing Chain Case Cover Bolts	28	21	—	
Thermostat Housing Bolts	28	21	—	
Vibration Damper Bolt	180	133	—	
Water Pump-to-Timing Chain Case Cover Bolts	28	21	—	

### REAR ENGINE

DESCRIPTION	N·m	Ft. Lbs.	In. Lbs.	COMMENT
Flexplate Bolts	<a href="#">(Refer to 09 - Engine/Engine Block/FLEXPLATE/Installation).</a>			Do not reuse these fasteners. If removed, a <b>NEW</b> fastener must be installed and tightened to specifications.
Inspection Cover to Transmission Bolt	11	8	—	
Rear Crankshaft Oil Seal Retainer Bolts	<a href="#">(Refer to 09 - Engine/Engine Block/SEAL, Crankshaft Oil, Rear/Installation).</a>			
Torque Convertor Bolts	42	31	—	
Transmission to Oil Pan Bolts	45	33	—	
Transmission Bell Housing to Engine Bolts	45	33	—	
Transmission to Lower Engine Block Below Dowel Bolts - 5 speed only	68	50	—	

### ENGINE MOUNTS

DESCRIPTION	N·m	Ft. Lbs.	In. Lbs.	COMMENT
Engine Mount Bracket to Block Bolts	61	45	—	
Engine Mount to Engine Mount Bracket Bolt (Rear Position)	60	44	—	
Engine Mount to Engine Mount Bracket Bolt( Front Position)	52	38	—	
Engine Mount to Cradle Bolts	48	35	—	
Engine Mount Heat Shield Nuts	25	18	—	

DESCRIPTION	N·m	Ft. Lbs.	In. Lbs.	COMMENT
Transmission Mount Bracket to Transmission — M8 Bolt	38	28	—	
Transmission Mount Bracket to Transmission — M10 Bolt	61	45	—	
Transmission Mount to Crossmember Bolt	61	45	—	
Transmission Crossmember to body Bolts	61	45	—	
Manual Trans Mount to Crossmember Nut	54	40	—	
Transmission Mount to Bracket Bolt	25	18	—	

### ACCESSORY DRIVE

DESCRIPTION	N·m	Ft. Lbs.	In. Lbs.	COMMENT
Generator Support Bracket Bolt	65	48	—	
Generator Support Bracket to Engine Mount Nut	28	21	—	

### MISCELLANEOUS COMPONENTS

DESCRIPTION	N·m	Ft. Lbs.	In. Lbs.	COMMENT
Air Cleaner Body Bolt	5	—	44	
Air Cleaner Body Tube Clamp	3	—	27	
Throttle Body Bolts	12	9	—	
Oil Control Valve Bolt	11	8	—	

DESCRIPTION	N·m	Ft. Lbs.	In. Lbs.	COMMENT
Heater Core Tube Bolt	11	8	—	
Steering Gear Bolts	96	71	—	
Strut Tower Support Bolts	38	28	—	