



NASCAR-Approved Spec Engine – Recommended Torques

Bolt	Torque	Notes
Alternator bolts	35 ft lbs	Oil
Bellhousing bolts	35 ft lbs	Pressure lube or Blue Loctite
Cam thrust plate	18 ft lbs	Blue Loctite
Center main cap bolts	55 ft lbs	Oil
Clutch plates	20-22 ft lbs	Pressure lube
Cylinder head taps	90 inch lbs	Anti-seize
Damper	150 ft lbs	Red Loctite
Damper bolts	16 ft lbs	Anti-seize
Distributor drive	60 ft lbs	Red Loctite
Distributor drive adapter	26 ft lbs	Red Loctite
Engine plates (left and right)	35 ft lbs	Blue Loctite
Engine tabs (left and right)	110 inch lbs	Blue Loctite
Flywheel bolts	75 ft lbs	Red Loctite
Front cover bolts	22 ft lbs	Blue Loctite
Front drive bolts	60 ft lbs	Blue Loctite
Front engine bracket bolts	30-35 ft lbs	Blue Loctite
Fuel pump bolts	30 ft lbs	Oil
Hat washer bolt	75-80 ft lbs	Blue Loctite
Head bolts (large)	75 ft lbs	Sequence 9-5-1-3-7-10-6-2-4-8 w. pressure lube
Head bolts (small)	25 ft lbs	Pressure lube
Intake manifold bolts	90 inch lbs	Blue Loctite
Lifter holders	125 inch lbs	Blue Loctite
Oil pan bolts	125 inch lbs	Blue Loctite
Oil pump bolts	35 ft lbs	Blue Loctite
Oil pump bracket	35 ft lbs	Blue Loctite
Oil pump pulleys	30 ft lbs	Blue Loctite
Oil squirter	18 ft lbs	Blue Loctite
Outer main cap bolts	55 ft lbs **	Oil
Rear cover bolts	22 ft lbs	Blue Loctite
Rocker arm bolts	22 ft lbs	Thread sealer (intake) - Pressure lube (exhaust)
Rod bolts	60 -65ft lbs	0.0050-0.0055 stretch
Side main cap bolts	22 ft lbs **	Oil
Spark plugs	13 ft lbs	Anti-seize
Timing chain	26 ft lbs	Red Loctite
Timing chain guide	18 ft lbs	Blue Loctite
Valley cover bolts	125 inch lbs	Blue Loctite
Valve cover bolts	60 inch lbs	Oil
Water outlet bolts	30 ft lbs	Blue Loctite
Water pump bolts	18 ft lbs	Blue Loctite
Water pump pulley bolts	100 inch lbs	Blue Loctite
Windage tray	28 ft lbs	Blue Loctite

** - use recommended ARP spec when using ARP bolts