

Description	Specifications
Wheel drive models	
Federal and Canada	6.4 (6.7, 5.6)
California	6.8 (7.1, 5.9)
Recommended oil (API classification)	CD

TIGHTENING TORQUE

Description	Torque Nm (ft.-lbs.)		
	U-engine	W-engine	TBD-engine
Cylinder head bolts — Cold engine	89 to 98 (65 to 72)	89 to 98 (65 to 72)	103 to 112 (76 to 83)
Cylinder head bolts — Hot engine	98 to 107 (73 to 79)	98 to 107 (73 to 79)	113 to 122 (84 to 90)
Crankshaft bearing cap bolts	17 to 20 (14 to 15)	17 to 20 (14 to 15)	17 to 20 (14 to 15)
Crankshaft sprocket bolt	79 to 98 (59 to 72)	49 to 58 (37 to 43)	64 to 73 (47 to 54)
Crankshaft arm shaft bolts	—	—	34 to 39 (25 to 28)
Crankshaft cover bolts	5 to 6 (4 to 5)	5 to 6 (4 to 5)	5 to 6 (4 to 5)
Water joint	20 to 39 (15 to 28)	20 to 39 (15 to 28)	—
Intake and exhaust manifold nuts	15 to 19 (11 to 14)	15 to 19 (11 to 14)	15 to 19 (11 to 14)
Crankshaft arm adjusting nuts	12 to 17 (9 to 13)	12 to 17 (9 to 13)	12 to 17 (9 to 13)
Main bearing cap bolts	49 to 53 (37 to 39)	74 to 83 (55 to 61)	74 to 83 (55 to 61)
Connecting rod cap nuts	45 to 47 (33 to 34)	45 to 47 (33 to 34)	45 to 47 (33 to 34)
Crankshaft pulley bolts	15 to 21 (11 to 15)	108 to 127 (80 to 94)	167 to 186 (123 to 137)
Crankshaft sprocket bolt	108 to 127 (80 to 94)	—	—
Oil pump sprocket nut	34 to 39 (25 to 28)	—	—
Oil pump sprocket bolt	—	30 to 39 (22 to 28)	—
Water shaft sprocket bolt	34 to 39 (25 to 28)	30 to 39 (22 to 28)	34 to 39 (25 to 28)
Timing belt tensioner nut	22 to 29 (16 to 21)	—	22 to 29 (16 to 21)
Front case bolts	20 to 26 (15 to 19)	—	12 to 14 (9 to 10)
Water shaft chamber cover bolts	—	4 to 5 (3 to 4)	4 to 5 (3 to 4)
Flywheel bolts	128 to 137 (94 to 101)	128 to 137 (94 to 101)	128 to 137 (94 to 101)
Drive plate bolts	128 to 137 (94 to 101)	128 to 137 (94 to 101)	128 to 137 (94 to 101)
Engine support bracket bolts — RWD only (M10)	40 to 49 (29 to 36)	40 to 49 (29 to 36)	40 to 49 (29 to 36)
Chain guide "B" bolt (Upper)	—	8 to 9 (6 to 7)	—
Chain guide "B" bolt (Lower)	—	15 to 21 (11 to 15)	—
Oil pump cover bolt	15 to 17 (11 to 13)	10 to 11 (7 to 8)	—
Oil pump assembly mounting bolt	—	8 to 9 (6 to 7)	—
Oil pressure switch or gauge unit	15 to 21 (11 to 15)	15 to 21 (11 to 15)	8 to 11 (6 to 8)
Oil pan bolt	6 to 7 (4.5 to 5.5)	6 to 7 (4.5 to 5.5)	6 to 7 (4.5 to 5.5)
Oil pan drain plug	59 to 78 (44 to 57)	59 to 78 (44 to 57)	59 to 78 (44 to 57)
Oil filter	11 to 12 (8 to 9)	11 to 12 (8 to 9)	11 to 12 (8 to 9)
Oil filter stud	—	50 to 58 (37 to 43)	—
Oil relief valve plug	40 to 49 (29 to 36)	40 to 49 (29 to 36)	30 to 45 (22 to 33)
Water temperature gauge unit	30 to 39 (22 to 28)	30 to 39 (22 to 28)	30 to 39 (22 to 28)