TORQUE SPECIFICATIONS

All readings in ft. lbs.

Year	Engine Displacement Liters (cc)	Engine ID/VIN	Cylinder Head Bolts	Main Bearing Bolts	Rod Bearing Bolts	Crankshaft Damper Bolts	Flywheel Bolts	Manifold		Spark Plugs	Lug Nuts
								Intake *	Exhaust		
1990	2.5 (2458)	E	①	80	33	80	50 ②	③	30	27	80-110
	4.0 (3982)	L	④	80	33	80	105	⑤	⑥	27	80-110
	4.2 (4227)	M	85	80	33	80	105	23	⑥	28	80-110
	5.9 (5899)	7	110	100	33	90 ⑦	95	43	⑧	27	80-110
1991	2.5 (2458)	P	①	80	33	80	50 ②	③	30	27	80-110
	4.0 (3996)	S	④	80	33	80	105	⑤	⑥	27	80-110
	5.9 (5899)	7	110	100	33	90 ⑦	95	43	⑧	27	80-110
1992	2.5 (2458)	P	①	80	33	80	50 ②	③	30	27	80-110
	4.0 (3996)	S	④	80	33	80	105	⑤	⑥	27	80-110
1993	2.5 (2458)	P	①	80	33	80	50	③	30	27	80-110
	4.0 (3996)	S	④	80	33	80	105	⑤	⑥	27	80-110
	5.2 (5211)	Y	⑨	85	45	135	105	⑩	20	30	80-110
1994	2.5 (2458)	P	①	80	33	80	105	③	30	27	80-110
	4.0 (3996)	S	④	80	33	80	105	⑤	⑥	27	80-110
	5.2 (5211)	Y	⑨	85	45	135	105	⑩	20	30	80-110
1995	2.5 (2458)	P	①	80	33	80	105	③	30	27	80-110
	4.0 (3996)	S	④	80	33	80	105	⑤	⑥	27	80-110
	5.2 (5211)	Y	⑨	85	45	135	105	⑩	20	30	80-110
1996	2.5 (2458)	P	①	80	33	80	105	⑪	⑪	27	80-110
	4.0 (3996)	S	④	80	33	80	105	⑫	⑫	27	80-110
	5.2 (5211)	Y	⑨	85	45	135	105	⑩	20	30	80-110
	5.9 (5899)	Z	⑨	85	45	135	55	⑩	20	30	85-115
1997	2.5 (2458)	P	①	80	33	80	105	⑪	⑪	27	80-110
	4.0 (3996)	S	④	80	33	80	105	⑫	⑫	27	80-110
	5.2 (5211)	Y	⑨	85	45	135	105	⑩	20	30	80-110
	5.9 (5899)	Z	⑨	85	45	135	55	⑩	20	30	85-115
1998	2.5 (2458)	P	①	80	33	80	105	⑪	⑪	27	85-115
	4.0 (3996)	S	④	80	33	80	105	⑫	⑫	27	85-115
	5.2 (5211)	Y	⑨	85	45	135	105	⑩	20	30	85-115
	5.9 (5899)	Z	⑨	85	45	135	55	⑩	20	30	85-115
1999-00	2.5 (2458)	P	①	80	33	80	105	⑪	⑪	27	85-115
	4.0 (3996)	S	④	80	33	80	105	⑫	⑫	27	85-115
	4.7 (4701)	N	⑬	⑭	15 ⑮	130	45	9	18	27	85-115

* NOTE: Applies to Lower Manifold only.

① Step 1: 22 ft. lbs.
Step 2: 45 ft. lbs.
Step 3: Bolts 1-6: 110 ft. lbs.
Step 4: Bolt 7: 100 ft. lbs.
Step 5: Bolts 8-10: 110 ft. lbs.

② Plus 60 degrees.

③ Bolts 1, 6 and 7: 30 ft. lbs.
Bolts 2-5: 23 ft. lbs.

④ Step 1: Torque all bolts to 22 ft. lbs.
Step 2: Torque all bolts to 45 ft. lbs.
Step 3: Torque bolts 1-10 and 12-14 to 110 ft. lbs.
Step 4: Torque bolt 11 to 100 ft. lbs.

⑤ Bolts 1-5 and 8-11: 24 ft. lbs.
Bolts 6, 7: 17 ft. lbs.

⑥ Bolt 1: 30 ft. lbs.
Bolts 2-7: 23 ft. lbs.

⑦ Damper bolt (tighten pulley bolts to 30 ft. lbs.

⑧ Outer bolts: 15 ft. lbs.
Inner bolts: 25 ft. lbs.

⑨ Step 1: 50 ft. lbs.
Step 2: 105 ft. lbs.

⑩ Step 1: Torque bolts 1-4 to 72 inch lbs.
Step 2: Torque bolts 5-12 to 72 inch lbs.
Step 3: Torque all bolts to 12 ft. lbs.

⑪ Bolt 1: 30 ft. lbs.
Bolts 2-7: 23 ft. lbs.

⑫ Bolts 1-5 and 8-11: 24 ft. lbs.
Bolts 6-7: 23 ft. lbs.

⑬ M11 bolts: 60 ft. lbs.
M8 bolts: 250 inch lbs.

⑭ Step 1: Bolts 1-10 - 25 inch lbs.
Step 2: Bolts 1-10 - additional 90 degrees
Step 3: Bolts A-K - 40 ft. lbs.
Step 4: Bolts A1-A5 - 20 ft. lbs.

⑮ Plus an additional 110 degrees