

SCHEDULED MAINTENANCE INTERVALS

CHRYSLER—TOWN & COUNTRY, DODGE—CARAVAN & PLYMOUTH—VOYAGER

TO BE SERVICED	TYPE OF SERVICE	VEHICLE MILEAGE INTERVAL (x1000)													
		7.5	15	22.5	30	37.5	45	52.5	60	67.5	75	82.5	90	97.5	
Engine oil & filter	R	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Driveshaft boots	S/I	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Exhaust system	S/I	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Engine coolant level, hoses & clamps	S/I	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Rotate tires	S/I	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Drive belts	S/I		✓		✓		✓		✓		✓		✓		
Brake hoses & linings	S/I			✓			✓			✓			✓		
Automatic transaxle fluid & filter	R				✓				✓				✓		
Air filter	R				✓				✓				✓		
Spark plugs A	R				✓				✓				✓		
Serpentine belts (3.0L & 3.3L)	S/I								✓		✓		✓		
Lubricate tie rod ends	S/I				✓				✓				✓		
PCV valve	S/I				✓				✓				✓		
Engine coolant	R								✓			✓			
Timing belt (3.0L)	R								✓						
Distributor cap & rotor	R							✓							
Ignition cables (3.0L)	R								✓						
Ignition timing	S/I								✓						

R: Replace S/I: Service or Inspect

A Platinum tip spark plugs & ignition cables (3.3L & 3.8L): replace every 100,000 miles.

FREQUENT OPERATION MAINTENANCE (SEVERE SERVICE)

If a vehicle is operated under any of the following conditions it is considered severe service:

- Extremely dusty areas.
- 50% or more of the vehicle operation is in 32°C (90°F) or higher temperatures, or constant operation in temperatures below 0°C (32°F).
- Prolonged idling (vehicle operation in stop and go traffic).
- Frequent short running periods (engine does not warm to normal operating temperatures).
- Police, taxi, delivery usage or trailer towing usage.

Oil & oil filter change: change every 3000 miles.

Automatic transaxle fluid & filter: change every 15,000 miles.

Brake hoses & linings: check every 9000 miles.

CV-joints & front suspension ball joints: check every 3000 miles.

Tie rod ends & steering linkage: check every 15,000 miles.

Air filter: change every 15,000 miles.

BRAKE SPECIFICATIONS

All measurements in inches unless noted

Year	Model		Brake Disc			Brake Drum Diameter			Min. Lining Thickness	Caliper Guide Pin Bolts (ft. lbs.)
			Original Thickness	Minimum Thickness	Maximum Run-out	Original Inside Diameter	Max. Wear Limit	Maximum Machine Diameter		
1999	Caravan	F	0.939-0.949	0.881	0.005	—	—	—	0.313	16
		R	0.482-0.502	0.443	0.005	9.84	9.93	9.90	A	16
	Town & Country	F	0.939-0.949	0.881	0.005	—	—	—	0.313	16
		R	0.482-0.502	0.443	0.005	9.84	9.93	9.90	A	16
	Voyager	F	0.939-0.949	0.881	0.005	—	—	—	0.313	16
		R	—	—	—	9.84	9.93	9.90	0.031	16
2000	Caravan	F	0.939-0.949	0.881	0.005	—	—	—	0.313	16
		R	0.482-0.502	0.443	0.005	9.84	9.93	9.90	A	16
	Town & Country	F	0.939-0.949	0.881	0.005	—	—	—	0.313	16
		R	0.482-0.502	0.443	0.005	9.84	9.93	9.90	A	16
	Voyager	F	0.939-0.949	0.881	0.005	—	—	—	0.313	16
		R	—	—	—	9.84	9.93	9.90	0.031	16
2001	Caravan	F	0.939-0.949	0.881	0.005	—	—	—	0.313	16
		R	0.482-0.502	0.443	0.005	9.84	9.93	9.90	A	16
	Town & Country	F	0.939-0.949	0.881	0.005	—	—	—	0.313	16
		R	0.482-0.502	0.443	0.005	9.84	9.93	9.90	A	16
	Voyager	F	0.939-0.949	0.881	0.005	—	—	—	0.313	16
		R	—	—	—	9.84	9.93	9.90	0.031	16
2002-03	Caravan	F	0.939-0.949	0.881	0.005	—	—	—	0.313	16
		R	0.482-0.502	0.443	0.005	9.84	9.93	9.90	A	16
	Town & Country	F	0.939-0.949	0.881	0.005	—	—	—	0.313	16
		R	0.482-0.502	0.443	0.005	9.84	9.93	9.90	A	16
	Voyager	F	0.939-0.949	0.881	0.005	—	—	—	0.313	16
		R	—	—	—	9.84	9.93	9.90	0.031	16

F: Front

R: Rear

A Drum brakes: 0.031 in

Disc brakes: 0.281 in.

CAPACITIES

Year	Model	Engine		Engine	Automatic	Transfer	Rear	Fuel	Cooling
		Displacement	Engine	Oil with	Transaxle	Case	Drive	Tank	System
		Liters (cc)	ID/VIN	Filter	(qts.)	(qts.)	Axle	(gal.)	(qts.)
1999	Caravan	2.4 (2429)	B	4.5	8.5	—	—	20.0	9.5
		3.0 (2972)	3	4.5	8.5	—	—	20.0	10.5
		3.3 (3300)	R	4.5	9.1	—	—	20.0	10.5
		3.8 (3785)	L	4.5	9.1	1.22	4.0	20.0	10.5
	Town & Country	3.3 (3301)	R	4.5	9.1	—	—	20.0	10.5
		3.8 (3778)	L	4.5	9.1	1.22	4.0	20.0	10.5
	Voyager	2.4 (2429)	B	4.5	8.5	—	—	20.0	9.5
		3.0 (2972)	3	4.5	8.5	—	—	20.0	10.5
		3.3 (3301)	R	4.5	9.1	—	—	20.0	10.5
		3.8 (3785)	L	4.5	9.1	—	—	20.0	10.5
2000	Caravan	2.4 (2429)	B	4.5	8.5	—	—	20.0	9.5
		3.0 (2972)	3	4.5	8.5	—	—	20.0	10.5
		3.3 (3300)	R	4.5	9.1	—	—	20.0	10.5
		3.8 (3785)	L	4.5	9.1	1.22	4.0	20.0	10.5
	Town & Country	3.3 (3301)	R	4.5	9.1	—	—	20.0	10.5
		3.8 (3778)	L	4.5	9.1	1.22	4.0	20.0	10.5
	Voyager	2.4 (2429)	B	4.5	8.5	—	—	20.0	9.5
		3.0 (2972)	3	4.5	8.5	—	—	20.0	10.5
		3.3 (3301)	R	4.5	9.1	—	—	20.0	10.5
		3.8 (3785)	L	4.5	9.1	—	—	20.0	10.5
2001	Caravan	2.4 (2429)	B	4.5	8.5	—	—	20.0	9.5
		3.0 (2972)	3	4.5	8.5	—	—	20.0	10.5
		3.3 (3300)	R	4.5	9.1	—	—	20.0	10.5
		3.8 (3785)	L	4.5	9.1	1.22	4.0	20.0	10.5
	Town & Country	3.3 (3301)	R	4.5	9.1	—	—	20.0	10.5
		3.8 (3778)	L	4.5	9.1	1.22	4.0	20.0	10.5
	Voyager	2.4 (2429)	B	4.5	8.5	—	—	20.0	9.5
		3.0 (2972)	3	4.5	8.5	—	—	20.0	10.5
		3.3 (3301)	R	4.5	9.1	—	—	20.0	10.5
		3.8 (3785)	L	4.5	9.1	—	—	20.0	10.5
2002-03	Caravan	2.4 (2429)	B	4.5	8.5	—	—	20.0	9.5
		3.3 (3300)	R	4.5	9.1	—	—	20.0	10.5
		3.8 (3785)	L	4.5	9.1	1.22	4.0	20.0	10.5
	Town & Country	3.3 (3301)	R	4.5	9.1	—	—	20.0	10.5
		3.8 (3778)	L	4.5	9.1	1.22	4.0	20.0	10.5
	Voyager	2.4 (2429)	B	4.5	8.5	—	—	20.0	9.5
		3.3 (3301)	R	4.5	9.1	—	—	20.0	10.5
		3.8 (3785)	L	4.5	9.1	—	—	20.0	10.5

NOTE: All capacities are approximate. Add fluid gradually and check to be sure a proper fluid level is obtained.

CRANKSHAFT AND CONNECTING ROD SPECIFICATIONS

All measurements are given in inches.

Year	Engine Displacement Liters (cc)	Engine ID/VIN	Crankshaft				Connecting Rod		
			Main Brg. Journal Dia.	Main Brg. Oil Clearance	Shaft End-play	Thrust on No.	Journal Diameter	Oil Clearance	Side Clearance
1999	2.4 (2429)	B	2.3610-	0.0007-	0.0035-	2	1.9670-	0.0009-	0.0051-
			2.3625	0.0023	0.0094		1.9685	0.0027	0.0150
	3.0 (2972)	3	2.3610-	0.0007-	0.0020-	2	1.9680-	0.0007-	0.0040-
			2.3620	0.0014	0.0100		1.9690	0.0014	0.0100
3.3 (3300)	R	2.5202-	0.0023-	0.0036-	2	2.1240-	0.0008-	0.0050-	
		2.5195	0.0043	0.0095		2.1250	0.0026	0.0150	
3.8 (3785)	L	2.5202-	0.0023-	0.0036-	2	2.1240-	0.0008-	0.0050-	
		2.5195	0.0043	0.0095		2.1250	0.0026	0.0150	
2000	2.4 (2429)	B	2.3610-	0.0007-	0.0035-	2	1.9670-	0.0009-	0.0051-
			2.3625	0.0023	0.0094		1.9685	0.0027	0.0150
	3.0 (2972)	3	2.3610-	0.0007-	0.0020-	2	1.9680-	0.0007-	0.0040-
			2.3620	0.0014	0.0100		1.9690	0.0014	0.0100
3.3 (3300)	R	2.5202-	0.0023-	0.0036-	2	2.1240-	0.0008-	0.0050-	
		2.5195	0.0043	0.0095		2.1250	0.0026	0.0150	
3.8 (3785)	L	2.5202-	0.0023-	0.0036-	2	2.1240-	0.0008-	0.0050-	
		2.5195	0.0043	0.0095		2.1250	0.0026	0.0150	
2001	2.4 (2429)	B	2.3610-	0.0007-	0.0035-	2	1.9670-	0.0009-	0.0051-
			2.3625	0.0023	0.0094		1.9685	0.0027	0.0150
	3.0 (2972)	3	2.3610-	0.0007-	0.0020-	2	1.9680-	0.0007-	0.0040-
			2.3620	0.0014	0.0100		1.9690	0.0014	0.0100
3.3 (3300)	R	2.5202-	0.0023-	0.0036-	2	2.1240-	0.0008-	0.0050-	
		2.5195	0.0043	0.0095		2.1250	0.0026	0.0150	
3.8 (3785)	L	2.5202-	0.0023-	0.0036-	2	2.1240-	0.0008-	0.0050-	
		2.5195	0.0043	0.0095		2.1250	0.0026	0.0150	
2002-03	2.4 (2429)	B	2.3610-	0.0007-	0.0035-	2	1.9670-	0.0009-	0.0051-
			2.3625	0.0023	0.0094		1.9685	0.0027	0.0150
	3.3 (3300)	R	2.5202-	0.0023-	0.0036-	2	2.1240-	0.0008-	0.0050-
3.8 (3785)	L	2.5202-	0.0023-	0.0036-	2	2.1240-	0.0008-	0.0050-	
		2.5195	0.0043	0.0095		2.1250	0.0026	0.0150	

ENGINE AND VEHICLE IDENTIFICATION

Engine							Model Year	
Code A	Liters (cc)	Cu. In.	Cyl.	Fuel Sys.	Engine Type	Eng. Mfg.	Code B	Year
3	3.0 (2972)	181	6	SMFI	SOHC	Mitsubishi	X	1999
B	2.4 (2429)	148	4	SMFI	DOHC	Chrysler	Y	2000
L	3.8 (3785)	231	6	SMFI	OHV	Chrysler	1	2001
R	3.3 (3300)	201	6	SMFI	OHV	Chrysler	2	2002
							3	2003

SMFI: Sequential Multi-port Fuel Injection

DOHC: Double Overhead Camshaft

SOHC: Single Overhead Camshaft

OHV: Overhead Valve

A 8th position of VIN

B 10th position of VIN

ENGINE TUNE-UP SPECIFICATIONS

Year	Engine Displacement Liters (cc)	Engine ID/VIN	Spark Plug Gap (in.)	Ignition Timing (deg.)	Fuel Pump (psi)	Idle Speed (rpm)	Valve Clearance	
							In.	Ex.
1999	2.4 (2429)	B	0.048-0.053	A	49	B	HYD	HYD
	3.0 (2972)	3	0.039-0.044	A	48	B	HYD	HYD
	3.3 (3300)	R	0.048-0.053	A	55	B	HYD	HYD
	3.8 (3785)	L	0.048-0.053	A	49	B	HYD	HYD
2000	2.4 (2429)	B	0.048-0.053	A	49	B	HYD	HYD
	3.0 (2972)	3	0.039-0.044	A	48	B	HYD	HYD
	3.3 (3300)	R	0.048-0.053	A	55	B	HYD	HYD
	3.8 (3785)	L	0.048-0.053	A	49	B	HYD	HYD
2001	2.4 (2429)	B	0.048-0.053	A	49	B	HYD	HYD
	3.0 (2972)	3	0.039-0.044	A	48	B	HYD	HYD
	3.3 (3300)	R	0.048-0.053	A	55	B	HYD	HYD
	3.8 (3785)	L	0.048-0.053	A	49	B	HYD	HYD
2002-03	2.4 (2429)	B	0.048-0.053	A	49	B	HYD	HYD
	3.3 (3300)	R	0.048-0.053	A	55	B	HYD	HYD
	3.8 (3785)	L	0.048-0.053	A	49	B	HYD	HYD

NOTE: The Vehicle Emission Control Information label often reflects specification changes made during production. The label figures must be used if they differ from those in this chart.

HYD: Hydraulic

A Ignition timing is regulated by the Powertrain Control Module (PCM), and cannot be adjusted.

B Idle speed is controlled by the Powertrain Control Module (PCM), and cannot be adjusted.

GENERAL ENGINE SPECIFICATIONS

Year	Model	Engine Displacement Liters (cc)	Engine Series (ID/VIN)	Fuel System	Net Horsepower @ rpm	Net Torque @ rpm (ft. lbs.)	Bore x Stroke (in.)	Compression Ratio	Oil Pressure @ rpm
1999	Caravan	2.4 (2429)	B	SMFI	150@5200	167@4000	3.44x3.98	9.4:1	25-80@3000
		3.0 (2972)	3	SMFI	150@5000	176@2800	3.59x2.99	8.9:1	30-80@3000
		3.3 (3300)	R	SMFI	158@4800	203@3600	3.66x3.19	8.9:1	30-80@3000
		3.8 (3785)	L	SMFI	180@4400	240@3300	3.78x3.43	9.0:1	30-80@3000
	Town & Country	3.3 (3300)	R	SMFI	158@4800	203@3600	3.66x3.19	8.9:1	30-80@3000
		3.8 (3785)	L	SMFI	180@4400	240@3300	3.78x3.43	9.0:1	30-80@3000
	Voyager	2.4 (2429)	B	SMFI	150@5200	167@4000	3.44x3.98	9.4:1	25-80@3000
		3.0 (2972)	3	SMFI	150@5000	176@2800	3.59x2.99	8.9:1	30-80@3000
3.3 (3300)		R	SMFI	158@4800	203@3600	3.66x3.19	8.9:1	30-80@3000	
3.8 (3785)		L	SMFI	180@4400	240@3300	3.78x3.43	9.0:1	30-80@3000	
2000	Caravan	2.4 (2429)	B	SMFI	150@5200	167@4000	3.44x3.98	9.4:1	25-80@3000
		3.0 (2972)	3	SMFI	150@5000	176@2800	3.59x2.99	8.9:1	30-80@3000
		3.3 (3300)	R	SMFI	158@4800	203@3600	3.66x3.19	8.9:1	30-80@3000
		3.8 (3785)	L	SMFI	180@4400	240@3300	3.78x3.43	9.0:1	30-80@3000
	Town & Country	3.3 (3300)	R	SMFI	158@4800	203@3600	3.66x3.19	8.9:1	30-80@3000
		3.8 (3785)	L	SMFI	180@4400	240@3300	3.78x3.43	9.0:1	30-80@3000
	Voyager	2.4 (2429)	B	SMFI	150@5200	167@4000	3.44x3.98	9.4:1	25-80@3000
		3.0 (2972)	3	SMFI	150@5000	176@2800	3.59x2.99	8.9:1	30-80@3000
3.3 (3300)		R	SMFI	158@4800	203@3600	3.66x3.19	8.9:1	30-80@3000	
3.8 (3785)		L	SMFI	180@4400	240@3300	3.78x3.43	9.0:1	30-80@3000	
2001	Caravan	2.4 (2429)	B	SMFI	150@5200	167@4000	3.44x3.98	9.4:1	25-80@3000
		3.0 (2972)	3	SMFI	150@5000	176@2800	3.59x2.99	8.9:1	30-80@3000
		3.3 (3300)	R	SMFI	158@4800	203@3600	3.66x3.19	8.9:1	30-80@3000
		3.8 (3785)	L	SMFI	180@4400	240@3300	3.78x3.43	9.0:1	30-80@3000
	Town & Country	3.3 (3300)	R	SMFI	158@4800	203@3600	3.66x3.19	8.9:1	30-80@3000
		3.8 (3785)	L	SMFI	180@4400	240@3300	3.78x3.43	9.0:1	30-80@3000
	Voyager	2.4 (2429)	B	SMFI	150@5200	167@4000	3.44x3.98	9.4:1	25-80@3000
		3.0 (2972)	3	SMFI	150@5000	176@2800	3.59x2.99	8.9:1	30-80@3000
3.3 (3300)		R	SMFI	158@4800	203@3600	3.66x3.19	8.9:1	30-80@3000	
3.8 (3785)		L	SMFI	180@4400	240@3300	3.78x3.43	9.0:1	30-80@3000	
2002-03	Caravan	2.4 (2429)	B	SMFI	150@5200	167@4000	3.44x3.98	9.4:1	25-80@3000
		3.3 (3300)	R	SMFI	158@4800	203@3600	3.66x3.19	8.9:1	30-80@3000
		3.8 (3785)	L	SMFI	180@4400	240@3300	3.78x3.43	9.0:1	30-80@3000
	Town & Country	3.3 (3300)	R	SMFI	158@4800	203@3600	3.66x3.19	8.9:1	30-80@3000
		3.8 (3785)	L	SMFI	180@4400	240@3300	3.78x3.43	9.0:1	30-80@3000
	Voyager	2.4 (2429)	B	SMFI	150@5200	167@4000	3.44x3.98	9.4:1	25-80@3000
3.3 (3300)		R	SMFI	158@4800	203@3600	3.66x3.19	8.9:1	30-80@3000	
3.8 (3785)		L	SMFI	180@4400	240@3300	3.78x3.43	9.0:1	30-80@3000	

SMFI: Sequential Multi-port Fuel Injection

PISTON AND RING SPECIFICATIONS

All measurements are given in inches.

Year	Engine Displacement Liters (cc)	Engine ID/VIN	Piston Clearance	Ring Gap			Ring Side Clearance		
				Top Compression	Bottom Compression	Oil Control	Top Compression	Bottom Compression	Oil Control
1999	2.4 (2429)	B	0.0009- 0.0022	0.0098- 0.0200	0.0090- 0.0180	0.0098- 0.0250	0.0011- 0.0031	0.0011- 0.0031	0.0004- 0.0070
	3.0 (2972)	3	0.0012- 0.0020	0.0120- 0.0180	0.0180- 0.0240	0.0080- 0.0240	0.0012- 0.0028	0.0008- 0.0024	A
	3.3 (3300)	R	0.0010- 0.0022	0.0118- 0.0217	0.0118- 0.0217	0.0098- 0.0394	0.0012- 0.0037	0.0012- 0.0037	0.0005- 0.0089
	3.8 (3785)	L	0.0010- 0.0022	0.0118- 0.0217	0.0118- 0.0217	0.0098- 0.0394	0.0012- 0.0037	0.0012- 0.0037	0.0005- 0.0089
2000	2.4 (2429)	B	0.0009- 0.0022	0.0098- 0.0200	0.0090- 0.0180	0.0098- 0.0250	0.0011- 0.0031	0.0011- 0.0031	0.0004- 0.0070
	3.0 (2972)	3	0.0012- 0.0020	0.0120- 0.0180	0.0180- 0.0240	0.0080- 0.0240	0.0012- 0.0028	0.0008- 0.0024	A
	3.3 (3300)	R	0.0010- 0.0022	0.0118- 0.0217	0.0118- 0.0217	0.0098- 0.0394	0.0012- 0.0037	0.0012- 0.0037	0.0005- 0.0089
	3.8 (3785)	L	0.0010- 0.0022	0.0118- 0.0217	0.0118- 0.0217	0.0098- 0.0394	0.0012- 0.0037	0.0012- 0.0037	0.0005- 0.0089
2001	2.4 (2429)	B	0.0009- 0.0022	0.0098- 0.0200	0.0090- 0.0180	0.0098- 0.0250	0.0011- 0.0031	0.0011- 0.0031	0.0004- 0.0070
	3.0 (2972)	3	0.0012- 0.0020	0.0120- 0.0180	0.0180- 0.0240	0.0080- 0.0240	0.0012- 0.0028	0.0008- 0.0024	A
	3.3 (3300)	R	0.0010- 0.0022	0.0118- 0.0217	0.0118- 0.0217	0.0098- 0.0394	0.0012- 0.0037	0.0012- 0.0037	0.0005- 0.0089
	3.8 (3785)	L	0.0010- 0.0022	0.0118- 0.0217	0.0118- 0.0217	0.0098- 0.0394	0.0012- 0.0037	0.0012- 0.0037	0.0005- 0.0089
2002-03	2.4 (2429)	B	0.0009- 0.0022	0.0098- 0.0200	0.0090- 0.0180	0.0098- 0.0250	0.0011- 0.0031	0.0011- 0.0031	0.0004- 0.0070
	3.3 (3300)	R	0.0010- 0.0022	0.0118- 0.0217	0.0118- 0.0217	0.0098- 0.0394	0.0012- 0.0037	0.0012- 0.0037	0.0005- 0.0089
	3.8 (3785)	L	0.0010- 0.0022	0.0118- 0.0217	0.0118- 0.0217	0.0098- 0.0394	0.0012- 0.0037	0.0012- 0.0037	0.0005- 0.0089

A Oil control ring side rails must be free to rotate after assembly

TIRE, WHEEL AND BALL JOINT SPECIFICATIONS

Year	Model	OEM Tires		Tire Pressures (psi)		Wheel Size	Ball Joint Inspection
		Standard	Optional	Front	Rear		
1999	Caravan/Voyager, base	P205/75SR14	None	35	35	6-J	0.030 in. A
	Caravan/Voyager SE, LE	P215/65SR15	P215/65R16	35	35	6.5-J	0.030 in. A
	Caravan/Voyager ES	P215/65R16	None	35	35	6.5-J	0.030 in. A
2000	Caravan/Voyager, base	P205/75SR14	None	35	35	6-J	0.030 in. A
	Caravan/Voyager SE, LE	P215/65SR15	P215/65R16	35	35	6.5-J	0.030 in. A
	Caravan/Voyager ES	P215/65R16	None	35	35	6.5-J	0.030 in. A
2001	Caravan/Voyager, base	P205/75SR14	None	35	35	6-J	0.030 in. A
	Caravan/Voyager SE, LE	P215/65SR15	P215/65R16	35	35	6.5-J	0.030 in. A
	Caravan/Voyager ES	P215/65R16	None	35	35	6.5-J	0.030 in. A
2002-03	Caravan/Voyager, base	P205/75SR14	None	35	35	6-J	0.030 in. A
	Caravan/Voyager SE, LE	P215/65SR15	P215/65R16	35	35	6.5-J	0.030 in. A
	Caravan/Voyager ES	P215/65R16	None	35	35	6.5-J	0.030 in. A

OEM: Original Equipment Manufacturer

PSI: Pounds Per Square Inch

A Both upper and lower

TORQUE SPECIFICATIONS

All readings in ft. lbs.

Year	Engine	Engine ID/VIN	Cylinder	Main	Rod	Crankshaft		Manifold		Spark Plugs	Lug Nuts
	Displacement Liters (cc)		Head Bolts	Bearing Bolts	Bearing Bolts	Damper Bolts	Flywheel Bolts	Intake	Exhaust		
1999	2.4 (2429)	B	A	B	C	100	70	20	17	20	85-115
	3.0 (2972)	3	80	B	C	100	70	20	17	20	85-115
	3.3 (3300)	R	D	E	F	40	70	17	17	20	85-115
	3.8 (3785)	L	D	E	F	40	70	17	17	20	85-115
2000	2.4 (2429)	B	A	B	C	100	70	20	17	20	85-115
	3.0 (2972)	3	80	B	C	100	70	20	17	20	85-115
	3.3 (3300)	R	D	E	F	40	70	17	17	20	85-115
	3.8 (3785)	L	D	E	F	40	70	17	17	20	85-115
2001	2.4 (2429)	B	A	B	C	100	70	20	17	20	85-115
	3.0 (2972)	3	80	B	C	100	70	20	17	20	85-115
	3.3 (3300)	R	D	E	F	40	70	17	17	20	85-115
	3.8 (3785)	L	D	E	F	40	70	17	17	20	85-115
2002-03	2.4 (2429)	B	A	B	C	100	70	20	17	20	85-115
	3.0 (2972)	3	80	B	C	100	70	20	17	20	85-115
	3.3 (3300)	R	D	E	F	40	70	17	17	20	85-115
	3.8 (3785)	L	D	E	F	40	70	17	17	20	85-115

A Step 1: 25 ft. lbs.

Step 2: 50 ft. lbs.

Step 3: 50 ft. lbs.

Step 4: Plus 1/4 turn

B M8 bolts: 21 ft. lbs.

M11 bolts: 30 ft. lbs. plus 90 degrees

C Step 1: 20 ft. lbs.

Step 2: Plus 90 degrees

D Step 1: 45 ft. lbs.

Step 2: 65 ft. lbs.

Step 3: 65 ft. lbs.

Step 4: Plus 90 degrees

E Step 1: 30 ft. lbs.

Step 2: Plus 90 degrees

F Step 1: 40 ft. lbs.

Step 2: Plus 90 degrees

VALVE SPECIFICATIONS

Year	Engine Displacement Liters (cc)	Engine ID/VIN	Seat Angle (deg.)	Face Angle (deg.)	Spring Test Pressure (lbs. @ in.)	Spring Installed Height (in.)	Stem-to-Guide Clearance (in.)		Stem Diameter (in.)	
							Intake	Exhaust	Intake	Exhaust
1999	2.4 (2429)	B	45	44.5-45.0	129-143@1.17	1.50	0.0018-0.0025	0.0029-0.0037	0.2340	0.2330
	3.0 (2972)	3	44.0-44.3	45.0-45.3	73@1.59	1.59	0.0010-0.0040	0.0020-0.0060	0.3130-0.3140	0.3120-0.3125
	3.3 (3300)	R	45.0-45.5	A	207-229@1.169	1.62-1.68	0.0010-0.0030	0.0020-0.0060	0.3120-0.3130	0.3112-0.3119
	3.8 (3785)	L	45.0-45.5	A	207-229@1.169	1.62-1.68	0.0010-0.0030	0.0020-0.0060	0.3120-0.3130	0.3112-0.3119
2000	2.4 (2429)	B	45	44.5-45.0	129-143@1.17	1.50	0.0018-0.0025	0.0029-0.0037	0.2340	0.2330
	3.0 (2972)	3	44.0-44.3	45.0-45.3	73@1.59	1.59	0.0010-0.0040	0.0020-0.0060	0.3130-0.3140	0.3120-0.3125
	3.3 (3300)	R	45.0-45.5	A	207-229@1.169	1.62-1.68	0.0010-0.0030	0.0020-0.0060	0.3120-0.3130	0.3112-0.3119
	3.8 (3785)	L	45.0-45.5	A	207-229@1.169	1.62-1.68	0.0010-0.0030	0.0020-0.0060	0.3120-0.3130	0.3112-0.3119
2001	2.4 (2429)	B	45	44.5-45.0	129-143@1.17	1.50	0.0018-0.0025	0.0029-0.0037	0.2340	0.2330
	3.0 (2972)	3	44.0-44.3	45.0-45.3	73@1.59	1.59	0.0010-0.0040	0.0020-0.0060	0.3130-0.3140	0.3120-0.3125
	3.3 (3300)	R	45.0-45.5	A	207-229@1.169	1.62-1.68	0.0010-0.0030	0.0020-0.0060	0.3120-0.3130	0.3112-0.3119
	3.8 (3785)	L	45.0-45.5	A	207-229@1.169	1.62-1.68	0.0010-0.0030	0.0020-0.0060	0.3120-0.3130	0.3112-0.3119
2002-03	2.4 (2429)	B	45	44.5-45.0	129-143@1.17	1.50	0.0018-0.0025	0.0029-0.0037	0.2340	0.2330
	3.3 (3300)	R	45.0-45.5	A	207-229@1.169	1.62-1.68	0.0010-0.0030	0.0020-0.0060	0.3120-0.3130	0.3112-0.3119
	3.8 (3785)	L	45.0-45.5	A	207-229@1.169	1.62-1.68	0.0010-0.0030	0.0020-0.0060	0.3120-0.3130	0.3112-0.3119

A Intake valve: 44.5 degrees
Exhaust valve: 45 degrees

WHEEL ALIGNMENT

Year	Model	Tire Size	Caster				Camber		Toe-in (in.)	Steering Axis Inclination (Deg.)
			Range (+/-Deg.)	Preferred Setting (Deg.)	Range (+/-Deg.)	Preferred Setting (Deg.)				
1999	All	A	F	1.00	+1.40	0.30	+0.05	0.10+/-0.20	—	
			R	—	—	0.25	0	0+/-0.30	—	
		B	F	1.00	+1.40	0.40	+0.15	0.10+/-0.20	—	
			R	—	—	0.25	0	0+/-0.30	—	
2000	All	A	F	1.00	+1.40	0.30	+0.05	0.10+/-0.20	—	
			R	—	—	0.25	0	0+/-0.30	—	
		B	F	1.00	+1.40	0.40	+0.15	0.10+/-0.20	—	
			R	—	—	0.25	0	0+/-0.30	—	
2001	All	A	F	1.00	+1.40	0.30	+0.05	0.10+/-0.20	—	
			R	—	—	0.25	0	0+/-0.30	—	
		B	F	1.00	+1.40	0.40	+0.15	0.10+/-0.20	—	
			R	—	—	0.25	0	0+/-0.30	—	
2002-03	All	A	F	1.00	+1.40	0.30	+0.05	0.10+/-0.20	—	
			R	—	—	0.25	0	0+/-0.30	—	
		B	F	1.00	+1.40	0.40	+0.15	0.10+/-0.20	—	
			R	—	—	0.25	0	0+/-0.30	—	

A P205/75R15, P215/65R16, P215/60R17

B All other tire sizes