

GASOLINE ENGINE TUNE-UP SPECIFICATIONS

Year	Engine ID/VIN	Engine Displacement Liters (cc)	Spark Plugs Gap (in.)	Ignition Timing (deg.)		Fuel Pump (psi)	Idle Speed (rpm)		Valve Clearance	
				MT	AT		MT	AT	In.	Ex.
1988	E	5.0 HO (4993)	0.044 in.	-	10B	35-40 ①	-	700	HYD	HYD
	4	3.8 (3802)	0.044 in.	-	10B	35-40 ①	-	550	HYD	HYD
	F	5.0 (4993)	0.044 in.	-	10B	35-40 ①	-	③	HYD	HYD
1989	E	5.0 HO (4993)	0.044 in.	-	10B	35-40 ①	-	700	HYD	HYD
	4	3.8 (3802)	0.044 in.	-	10B	35-40 ①	-	550	HYD	HYD
	F	5.0 (4993)	0.044 in.	-	10B	35-40 ①	-	③	HYD	HYD
1990	E	5.0 HO (4993)	0.054 in.	-	10B	35-40 ①	-	700	HYD	HYD
	4	3.8 (3802)	0.054 in.	-	10B	35-40 ①	-	550	HYD	HYD
	F	5.0 (4993)	0.054 in.	-	10B	35-40 ①	-	③	HYD	HYD
1991	E	5.0 HO (4993)	0.054 in.	-	10B	35-40 ①	-	700	HYD	HYD
	4	3.8 (3802)	0.054 in.	-	10B	35-40 ①	-	550	HYD	HYD
	W	4.6 (4593)	0.054 in.	-	10B	35-40 ①	-	③	HYD	HYD
1992	E	5.0 HO (4993)	0.054 in.	-	10B	35-40 ①	-	700	HYD	HYD
	4	3.8 (3802)	0.054 in.	-	10B	35-40 ①	-	550	HYD	HYD
	W	4.6 (4593)	0.054 in.	-	10B	35-40 ①	-	③	HYD	HYD
1993	V	4.6 (4593)	0.054 in.	-	10B	35-40 ①	-	③	HYD	HYD
	4	3.8 (3802)	0.054 in.	-	10B	35-40 ①	-	550	HYD	HYD
	W	4.6 (4593)	0.054 in.	-	10B	35-40 ①	-	③	HYD	HYD
1994	V	4.6 (4593)	0.054 in.	-	10B	30-45 ①	-	③	HYD	HYD
	4	3.8 (3802)	0.054 in.	-	10B	30-45 ①	-	550	HYD	HYD
	W	4.6 (4593)	0.054 in.	-	10B	30-45 ①	-	③	HYD	HYD
1995	V	4.6 (4593)	0.054 in.	-	10B	30-45 ①	-	③	HYD	HYD
	W	4.6 (4593)	0.054 in.	-	10B	30-45 ①	-	③	HYD	HYD
1996	V	4.6 (4593)	0.054 in.	-	10B	30-45 ①	-	③	HYD	HYD
	W	4.6 (4593)	0.054 in.	-	10B	30-45 ①	-	③	HYD	HYD
1997	W	4.6 (4593)	0.054 in.	-	10B	30-45 ①	-	③	HYD	HYD
	9	4.6 (4593)	0.054 in.	-	10B	30-45 ①	-	③	HYD	HYD
1998	W	4.6 (4593)	0.054 in.	-	10B	30-45 ①	-	③	HYD	HYD
	9	4.6 (4593)	0.054 in.	-	10B	30-45 ①	-	③	HYD	HYD
1999	W	4.6 (4593)	0.054 in.	-	10B	30-45 ①	-	③	HYD	HYD
	9	4.6 (4593)	0.054 in.	-	10B	30-45 ①	-	③	HYD	HYD
2000	W	4.6 (4593)	0.054 in.	-	10B	30-45 ①	-	③	HYD	HYD
	9	4.6 (4593)	0.054 in.	-	10B	30-45 ①	-	③	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

- ① Fuel pressure with engine running, pressure regulator vacuum hose connected
- ② Before Top Dead Center
- ③ Refer to Vehicle Emission Control Information label

93141C03

Air Conditioning System

SYSTEM SERVICE & REPAIR

➔ It is recommended that the A/C system be serviced by an EPA Section 609 certified automotive technician utilizing a refrigerant recovery/recycling machine.

The do-it-yourselfer should not service his/her own vehicle's A/C system for many reasons, including legal concerns, personal injury, environmental damage and cost.

According to the U.S. Clean Air Act, it is a federal crime to service or repair (involving the refrigerant)

a Motor Vehicle Air Conditioning (MVAC) system for money without being EPA certified. It is also illegal to vent R-12 and R-134a refrigerants into the atmosphere. State and/or local laws may be more strict than the federal regulations, so be sure to check with your state and/or local authorities for further information.

➔ Federal law dictates that a fine of up to \$25,000 may be levied on people convicted of venting refrigerant into the atmosphere.

When servicing an A/C system you run the risk of handling or coming in contact with refrigerant, which may result in skin or eye irritation or frostbite. Although low in toxicity (due to chemical stability), inhalation of concentrated refrigerant fumes

is dangerous and can result in death; cases of fatal cardiac arrhythmia have been reported in people accidentally subjected to high levels of refrigerant. Some early symptoms include loss of concentration and drowsiness.

➔ Generally, the limit for exposure is lower for R-134a than it is for R-12. Exceptional care must be practiced when handling R-134a.

Also, some refrigerants can decompose at high temperatures (near gas heaters or open flame), which may result in hydrofluoric acid, hydrochloric acid and phosgene (a fatal nerve gas).

It is usually more economically feasible to have a certified MVAC automotive technician perform A/C system service on your vehicle.