

C - SPECIFICATIONS

Article Text

1995 Cadillac Concours
For Ace Mechanics 123 Main Street San Diego Ca 92126
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ARTICLE BEGINNING

1995 ENGINE PERFORMANCE

General Motors Corp. Service & Adjustment Specifications

Cadillac; Concours, DeVille, Seville

INTRODUCTION

Use this article to quickly find specifications related to servicing and on-vehicle adjustments. This is a quick-reference article to use when you are familiar with proper adjustment procedures and only need a specification.

CAPACITIES

BATTERY SPECIFICATIONS TABLE

Application	Cold Crank Amps @ 0°F (-18°C)	Reserve Capacity Minutes
4.6L & 4.9L	770	115

FLUID CAPACITIES TABLE

Application	(1) Quantity Qts. (L)
Crankcase (2)	
4.9L	5.0 (4.7)
4.6L	7.0 (6.6)
Cooling System (Includes Heater)	12.3 (11.6)
Automatic Transaxle/Transmission (3) (4)	
4.6L	8.0 (7.5)
4.9L	6.0 (5.7)

- (1) - Fluid capacities listed are approximate. Always fill to FULL mark.
- (2) - Does not include oil filter capacity.
- (3) - Drain and refill capacity only. Does not include torque converter.
- (4) - Dexron-III or Dexron-IIIE.

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QUICK-SERVICE

SERVICE INTERVALS & SPECIFICATIONS

REPLACEMENT INTERVALS TABLE

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Component	Miles
Air Filter	30,000
Camshaft Timing Belt	(1)
Coolant	30,000
Fuel Filter	(1)
Oil & Filter	7500
Spark Plugs	30,000

(1) - No scheduled replacement interval is given by manufacturer. Check and replace as necessary.

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BELT ADJUSTMENT TABLE

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Application	(1) Tension Lbs. (kg)
Serpentine Belt (2)	
4.6L	65 (29)
4.9L	120 (54)

- (1) - Specifications are for new belts only. Measure tension using belt tension gauge.
- (2) - Engines with serpentine belts have automatic tensioner. If tension is not as specified, check belt operating length and tensioner operating range. Replace belt or tensioner as necessary.
- (3) - Adjustment of serpentine belt is not necessary. Belt tension is maintained by spring-tensioned idler pulley (some equipped with belt wear indicator).

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MECHANICAL CHECKS

ENGINE COMPRESSION

Check engine compression with engine at normal operating temperature, all spark plugs removed and throttle wide open.

COMPRESSION SPECIFICATIONS TABLE

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Application	Specification
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Compression Ratio

4.6L	10.3:1
4.9L	9.5:1
Normal Compression Pressure	(1)
Minimum Compression Pressure	(1)

(1) - Lowest compression reading should not be less than 70 percent of highest compression reading. No cylinder compression reading should be less than 100 psi (7 kg/cm²).

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VALVE CLEARANCE

NOTE: All models are equipped with hydraulic lifters. Adjustment is not required.

IGNITION SYSTEM

IGNITION COIL

PICK-UP COIL RESISTANCE TABLE

Application	Ohms
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4.9L With HEI-EST 500-1500

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HIGH TENSION WIRE RESISTANCE

HIGH TENSION WIRE RESISTANCE TABLE

Application	Ohms
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All Models 30,000 Maximum

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SPARK PLUGS

SPARK PLUG TYPE TABLE

Application	AC Spark Plug
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4.6L 41-900

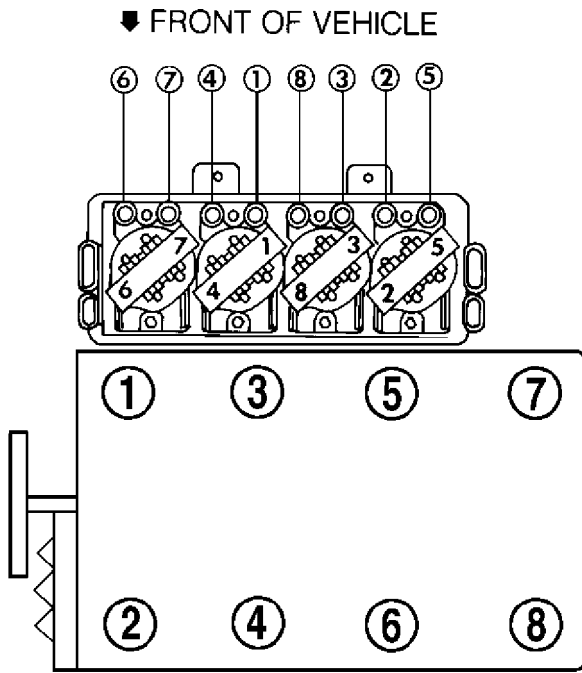
4.9L 41-902

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SPARK PLUG SPECIFICATIONS TABLE

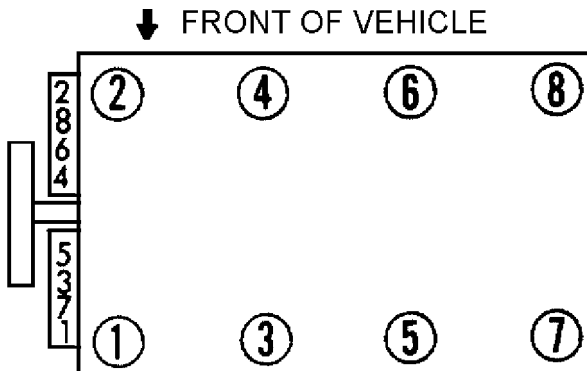
Application	Gap		Torque
	In.	(mm)	Ft. Lbs. (N.m)
4.6L	.050	(1.27)	11 (15)
4.9L	.060	(1.52)	15 (20)

FIRING ORDER & TIMING MARKS



94J31947 Firing Order 1-2-7-3-4-5-6-8

Fig. 1: Firing Order (4.6L)



Firing Order 1-8-4-3-6-5-7-2

95I28983

Fig. 2: Firing Order (4.9L)

NOTE: For timing procedures, see D - ADJUSTMENTS article in the ENGINE PERFORMANCE section.

IGNITION TIMING TABLE (Degrees BTDC @ RPM)

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Application	M/T	A/T
4.6L	(1)	(1)
4.9L	10 @ 800

(1) - Not adjustable.

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FUEL SYSTEM

FUEL PUMP

NOTE: Fuel pump performance is a measurement of fuel pressure and volume availability, not regulated fuel pressure.

FUEL PUMP PERFORMANCE TABLE

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Application	Pressure psi (kg/cm ²)
4.6L & 4.9L	40-50 (2.81-3.50)

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INJECTOR RESISTANCE

INJECTOR RESISTANCE SPECIFICATIONS TABLE

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Application	Ohms
4.6L & 4.9L	(1) 8.0-25.0

(1) - Injector resistance specification is at 140°F (60°C).

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IDLE SPEED & MIXTURE

NOTE: Idle mixture is controlled by Powertrain Control Module (PCM). Idle mixture adjustment is neither required nor possible.

THROTTLE POSITION (TP) SENSOR

NOTE: For further testing, see appropriate G - TESTS W/CODES
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article in the ENGINE PERFORMANCE section below.

- * G - TESTS W/CODES - 4.6L (for Concours)
- * G - TESTS W/CODES - 4.6L (for Seville)
- * G - TESTS W/CODES - 4.9L (for DeVille)

TP SENSOR ADJUSTMENT VOLTAGE TABLE

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Application	(1) Volts
4.6L	(2) .50-5.00
4.9L50-5.00

- (1) - Voltage range is from idle position to wide open throttle Position.
- (2) - TP sensor is not adjustable.

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END OF ARTICLE