

C - SPECIFICATIONS

ABC123

Entire Article
2000 Chevrolet Camaro

ARTICLE BEGINNING

2000 ENGINE PERFORMANCE
General Motors Service & Adjustment Specifications - Cars

MODEL IDENTIFICATION

Vehicle model is identified by fourth character of Vehicle Identification Number (VIN). VIN is stamped on metal pad on top of left end of instrument panel, near windshield. See MODEL IDENTIFICATION table.

MODEL IDENTIFICATION

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Body Code (1) Model

"C"	Park Avenue
"E"	El dorado
"F"	Camaro & Firebird
"H"	Bonneville & LeSabre
"J"	.....	Cavalier & Sunfire, & Saturn ("L" Series)
"K"	.....	DeVille & Seville
"M"	.....	Metro
"N"	.....	Alero, Grand Am & Malibu
"S"	.....	Pri z m
"V"	.....	Catera
"W"	.....	Century, Grand Prix, Impala, Intrigue, Lumina, Monte Carlo & Regal
"Y"	Corvette
"Z"	Saturn ("S" Series)

(1) - Vehicle body code is fourth character of VIN.
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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

FLUID CAPACITY (CRANKCASE) (1)

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Application (2) Quantity Qts. (L)

1. 0L & 1. 3L	3. 5 (3. 3)
1. 8L	3. 9 (3. 7)
1. 9L & 2. 4L	4. 0 (3. 8)
2. 2L		
"J" Body		

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Cavalier & Sunfire	4.0 (3.8)
Saturn ("L" Series)	5.0 (4.7)
3.0L	
"J" Body	5.0 (4.7)
"V" Body	6.0 (5.8)
3.5L	6.0 (5.8)
3.1L, 3.4L & 3.8L	4.5 (4.3)
4.6L	7.5 (7.1)
5.7L	
"F" Body	5.5 (5.2)
"Y" Body	6.5 (6.1)

(1) - Fluid capacities listed are approximate. Always fill to FULL mark.

(2) - Includes oil filter capacity.

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FLUID CAPACITY (COOLING SYSTEM) (1)

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Application	(2) Quantity Qts. (L)
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1.0L	4.1 (3.9)
1.3L	
Automatic Transmision	5.0 (4.7)
Manual Transmision	4.9 (4.6)
1.8L	
Automatic Transmision	6.4 (6.1)
Manual Transmision	6.6 (6.2)
1.9L	7.0 (6.6)
2.2L	
"J" Body	
Cavalier & Sunfire	10.3 (9.7)
Saturn ("L" Series)	
Automatic Transmision	7.3 (6.9)
Manual Transmision	7.4 (7.0)
2.4L	
"J" Body	10.7 (10.1)
"N" Body	11.3 (10.7)
3.0L	
"J" Body	7.8 (7.4)
"V" Body	10.6 (10.0)
3.1L	
"N" Body	13.6 (12.9)
"W" Body	
Except Grand Prix	11.6 (10.9)
Grand Prix	11.0 (10.4)
3.4L	
"N" Body	13.6 (12.9)
"W" Body	11.3 (10.7)
3.5L	9.8 (9.3)
3.8L	
"C" Body	13.0 (12.3)
"H" Body	10.0 (9.5)
"F" Body	

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Automatic Transmi ssi on	11.4 (10.8)
Manual Transmi ssi on	11.7 (11.0)
"W" Body	
Century & Regal	12.3 (11.6)
Grand Pri x	10.2 (9.6)
Impal a, Lumi na & Monte Carlo	11.7 (11.0)
4. 6L	
"E" Body	10.7 (10.1)
"K" Body	12.5 (11.8)
5. 7L	
"F" Body	
Automatic Transmi ssi on	11.8 (11.2)
Manual Transmi ssi on	11.9 (11.3)
"Y" Body	
Automatic Transmi ssi on	12.3 (11.6)
Manual Transmi ssi on	12.6 (11.9)

- (1) - Fluid capacities listed are approximate. Always fill to FULL mark.
- (2) - Includes heater.

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FLUID CAPACITY (AUTOMATIC TRANSAXLE/TRANSMISSION) (1) (2)
 AAA
 Application (3) Quantity Qts. (L)

"C" Body	6.0 (5.6)
"E" & "K" Bodies	11.0 (10.4)
"F" & "Y" Bodies	5.0 (4.7)
"H" Body	
Bonneville	7.4 (7.0)
LeSabre	6.0 (5.6)
"J" Body	
Cavalier & Sunfire	
3-Speed	4.0 (3.8)
4-Speed	6.9 (6.5)
Saturn ("L" Series)	4.2 (4.0)
"M" Body	1.6 (1.5)
"N" Body	6.9 (6.5)
"S" Body	
3-Speed	2.6-2.5
4-Speed	3.3-3.1
"V" Body	7.0 (6.6)
"W" Body	7.4 (7.0)
"Z" Body	6.9 (6.5)

- (1) - Fluid capacities listed are approximate. Always fill to FULL mark.
- (2) - Drain and refill capacity only. Does not include torque converter.
- (3) - "Z" body uses Saturn Transaxle Fluid; all others use Dexron-III.

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FLUID CAPACITY (MANUAL TRANSAXLE/TRANSMISSION) (1)
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 Application Quantity Qts. (L)

"F" Body (2)	
5-Speed	3.4 (3.2)
6-Speed	4.0 (3.8)
"J" Body	
Cavalier & Sunfire (3)	2.0 (1.9)
Saturn ("L" Series) (4)	2.0 (1.9)
"M" Body (5)	2.5 (2.4)
"S" Body (5)	2.0 (1.9)
"Y" Body (2)	4.1 (3.9)
"Z" Body (2)	2.6 (2.5)

- (1) - Fluid capacities listed are approximate. Always fill to FULL mark.
- (2) - Dexron III.
- (3) - Synchronesh Transmission Fluid (GM Part No. 12345349).
- (4) - Saturn Transaxle Fluid (21485278).
- (5) - SAE 75W-90 GL-4 gear oil.

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FLUID CAPACITY (DIFFERENTIAL)
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 Application Quantity Pts. (L)

"F" Body	
Locking	(1) 3.5 (1.7)
Non-Locking	(2) 3.5 (1.7)

- (1) - Use Synthetic 75W-90 GL-5 gear lubricant with 4 oz. (118 ml) of limited slip differential additive (GM Part No. 1052358).
- (2) - Use Synthetic 75W-90 GL-5 gear lubricant.

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QUICK-SERVICE

SERVICE INTERVALS & SPECIFICATIONS

REPLACEMENT INTERVALS
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Component	Miles
Air Filter	30,000
Accessory Drive Belt (1)	
"J" Body	
Cavalier & Sunfire	60,000
Saturn ("L" Series)	18,000
"M" Body	30,000
"Z" Body	18,000
All Others	60,000
Engine Coolant	

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"J" Body	
Cavalier & Sunfire	150,000
Saturn ("L" Series)	100,000
"M" & "S" Bodies	30,000
"Z" Body	100,000
All Others	150,000
Fuel Filter	
"J" Body	
Cavalier & Sunfire	(2)
Saturn ("L" Series)	100,000
"M", "V" & "Z" Bodies	100,000
All Others	(2)
Oil & Filter	
"C", "H" & "W" Bodies	(3) 3000-7500
"E", "F", "K" & "Y" Bodies	3000-10,000
"V" Body	5000
All Others	3000
Spark Plugs	
"J" Body	
Cavalier & Sunfire	100,000
Saturn ("L" Series)	
2.2L	150,000
3.0L	100,000
"M" & "S" Bodies	30,000
"Z" Body	30,000
All Others	100,000
Timing Belt	
"J" Body (3.0L)	100,000
"M" & "V" Bodies	100,000

- (1) - Inspect and replace if necessary.
- (2) - Periodic replacement is not required. Check and replace as necessary.
- (3) - Replace at 3000 miles if not equipped with oil life monitor.

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BELT ADJUSTMENT

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Application (1) Belt Deflection

1.0L & 1.3L	
A/C Compressor & Power Steering Pump28-.35" (7-9 mm)
Generator/Water Pump	
New Belt .....	.20-.28" (5-7 mm)
Used Belt (2) .....	.24-.32" (6-8 mm)
All Others	(3)

- (1) - Deflection is with 22 lbs. (10 kg) pressure applied midway on longest belt run.
- (2) - Used belt is a belt in operation for more than 5 minutes.
- (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.

ENGINE COMPRESSION SPECIFICATIONS

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Application Specification

Normal Compression Pressure

- 1.0L (1) 199 psi (14.0 kg/cm²)
1.3L (1) 192 psi (13.5 kg/cm²)
1.8L (1) 218 psi (15.3 kg/cm²)
1.9L 190 psi (13.4 kg/cm²)
2.2L, 2.4L, 3.0L, 3.1L, 3.4L, 3.8L & 5.7L (2)
3.5L & 4.6L (3)

Minimum Compression Pressure

- 1.0L & 1.3L (1) 156 psi (11.0 kg/cm²)
1.8L (1) 145 psi (10.2 kg/cm²)
1.9L 180 psi (12.7 kg/cm²)
2.2L, 2.4L, 3.0L, 3.1L, 3.4L, 3.8L & 5.7L (2)
3.5L & 4.6L (3)

- (1) - No cylinder compression reading should be less than 15 psi (1.1 kg/cm²) of highest compression reading.
(2) - Lowest compression reading should not be less than 70 percent of highest compression reading. No cylinder compression reading should be less than 100 psi (7.0 kg/cm²).
(3) - Lowest compression reading should not be less than 70 percent of highest compression reading. No cylinder compression reading should be less than 140 psi (9.8 kg/cm²).

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VALVE CLEARANCE

VALVE CLEARANCE SPECIFICATIONS

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Application In. (mm)

"S" Body

- Intake (1) .006-.010 (.15-.25)
Exhaust (1) .010-.014 (.25-.35)
All Others (2)

- (1) - Adjustments are made with engine cold 77°F (25°C).
(2) - Equipped with hydraulic lifters. Adjustment is not required.

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IGNITION SYSTEM

HIGH TENSION WIRE RESISTANCE

HIGH TENSION WIRE RESISTANCE

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Application Ohms

1. 0L & 1. 3L	Less Than 30,000
1. 8L, 2. 4L, 3. 0L, 3. 5L & 4. 6L	(1)
2. 2L	
"J" Body	
Cavalier & Sunfire	Less Than 30,000
Saturn ("L" Series)	(1)
1. 9L	1500-15,000
3. 1L & 3. 4L	(2)
3. 8L	
"C" Body	7000 Or Less
"F" & "H" Bodies	1000-1500 Per Ft.
"W" Body	6000 Or Less
5. 7L	
"F" Body	1000-1500 Per Ft.
"Y" Body	700 Or Less

- (1) - Not equipped with high tension wires. Ignition coils are connected directly to spark plugs by boots.
 (2) - Replace wire if resistance exceeds 600 ohms per ft.

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SPARK PLUGS

SPARK PLUG TYPE

AA
Application Spark Plug Type Spark Plug No.

1. 0L	AC	R42XLS
	Denso	W20EPR-U11
1. 3L	Denso	K20PR-U11
	NGK	BKR6E-11
1. 8L	Denso	K16TR11
	NGK	BKR5EKB11
1. 9L SOHC	NGK	BKR4EA-11
1. 9L DOHC	NGK	BKR5EA-11
2. 2L (Cavalier & Sunfire)	AC	41-928
2. 2L (Saturn)	AC	41-628
2. 4L	AC	41-942
3. 0L ("J" Body)	AC	41-627
3. 0L ("V" Body)	Bosch	FLR9LTE
3. 1L & 3. 4L	AC	41-940
3. 5L	GM	12556183
3. 8L	AC	41-921
4. 6L	GM	12561466
5. 7L ("F" Body)	AC	41-931
5. 7L ("Y" Body)	AC	41-952

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SPARK PLUG SPECIFICATIONS

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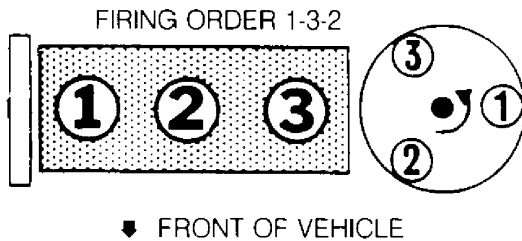
Application	Gap In. (mm)	Torque Ft. Lbs. (N.m)
1. 0L & 1. 3L	.040-.043 (1.0-1.1)	21 (28)
1. 8L	.043 (1.1)	13 (18)
1. 9L	.040 (1.0)	20 (27)
2. 2L		
"J" Body		
Cavalier & Sunfire	.050 (1.27)	13 (18)
Saturn ("L" Series)	.045 (1.14)	15 (20)
2. 4L	.050 (1.27)	13 (18)
3. 0L		
"J" Body	.040 (1.0)	19 (25)
"V" Body	.035-.043 (.9-1.1)	19 (25)
3. 1L & 3. 8L	.060 (1.52)	20 (27)
3. 4L	.060 (1.52)	11 (15)
3. 5L & 4. 6L	.050 (1.27)	15 (20)
5. 7L	.060 (1.52)	(1)

(1) - Tighten to 15 ft. lbs. (20 N.m) when using NEW cylinder head. Tighten to 11 ft. lbs. (15 N.m) for all subsequent installations.

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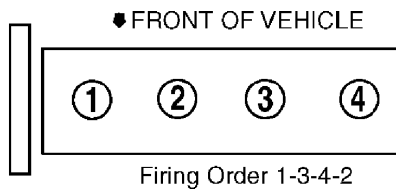
FIRING ORDER

NOTE: For firing order, refer to appropriate illustration. See Figs. 1-8.



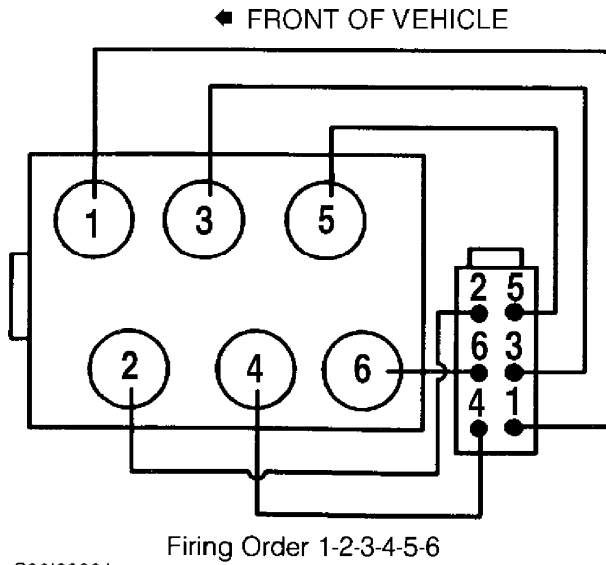
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Fig. 1: Firing Order (1.0L)
Courtesy of General Motors Corp.



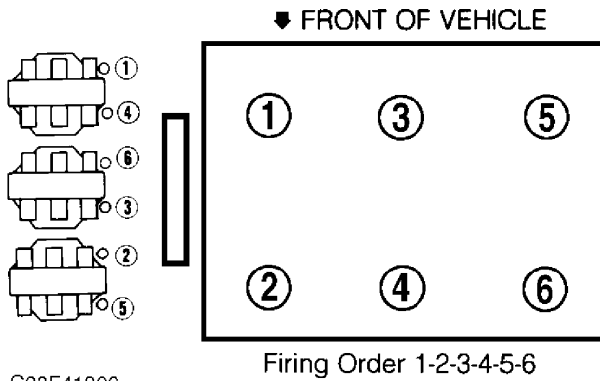
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Fig. 2: Firing Order (1.3L, 1.8L, 1.9L, 2.2L & 2.4L)
Courtesy of General Motors Corp.



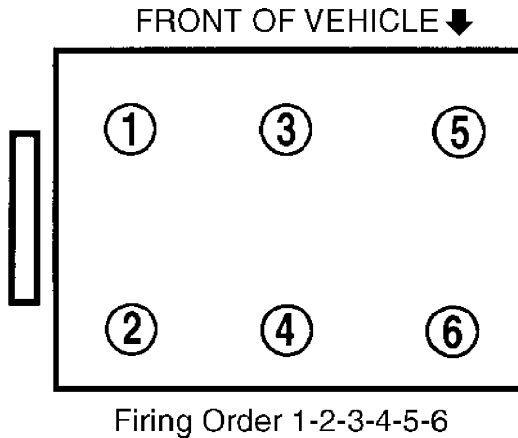
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Fig. 3: Firing Order (3.0L)
Courtesy of General Motors Corp.



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Fig. 4: Firing Order (3.1L & 3.4L)
Courtesy of General Motors Corp.



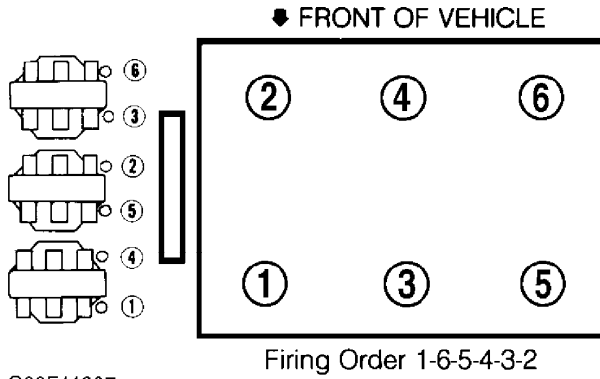
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Fig. 5: Firing Order (3.5L)
Courtesy of General Motors Corp.

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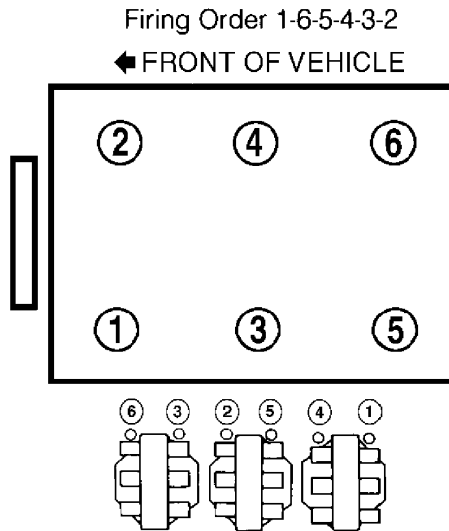
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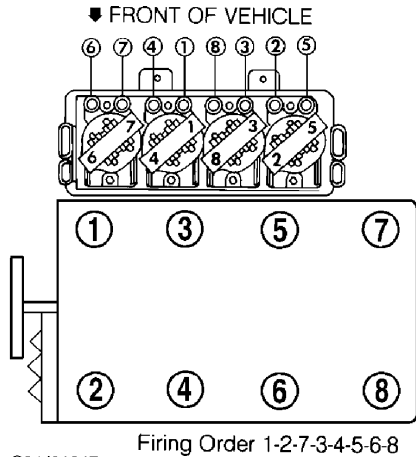
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Fig. 6: Firing Order (3.8L Except "F" Body)
Courtesy of General Motors Corp.



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Fig. 7: Firing Order (3.8L "F" Body)
Courtesy of General Motors Corp.



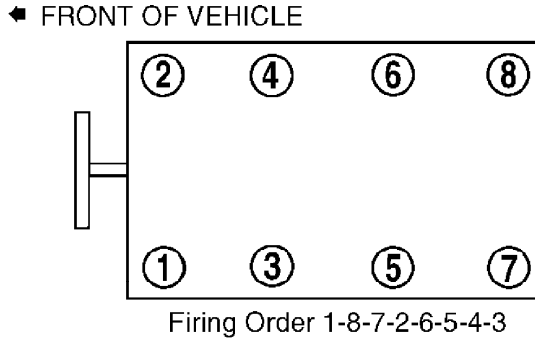
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Fig. 8: Firing Order (4.6L)
Courtesy of General Motors Corp.

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Fig. 9: Firing Order (5.7L)
Courtesy of General Motors Corp.

IGNITION TIMING

NOTE: All models except Metro 1.0L are equipped with an electronic computer-controlled ignition system. Timing on these systems is not adjustable. On Metro 1.0L, move distributor to adjust ignition timing. Refer to underhood emissions label for specification.

FUEL SYSTEM

FUEL PUMP

FUEL PUMP PERFORMANCE

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Application	(1) KOEO psi (kg/cm ²)
1.0L	23-31 (1.6-2.2)
1.3L	39-44 (2.7-3.1)
1.8L	44-50 (3.1-3.5)
1.9L	40-55 (2.8-3.9)
2.2L	
"J" Body	
Cavalier & Sunfire	41-47 (2.9-3.3)
Saturn ("L" Series)	50-60 (3.1-4.2)
2.4L	52-58 (3.7-4.1)
3.0L	
"J" Body	39-49 (2.7-3.4)
"V" Body	41-47 (2.9-3.3)
3.5L & 4.6L	41-47 (2.9-3.3)
3.1L, 3.4L & 3.8L	48-55 (3.4-3.9)
5.7L	55-60 (3.9-4.2)

(1) - KOEO is ignition ON and engine OFF.
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INJECTOR RESISTANCE

INJECTOR RESISTANCE SPECIFICATIONS

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AA
Appl i cati on (1) Ohms

- 1. 0L 0.5-1.5
- 1. 3L 12.0-13.0
- 1. 8L 13.4-14.4
- 1. 9L 11.8-12.6
- 2. 2L
- "J" Body
- Cavalier & Sunfire 1.9-2.3
- Saturn ("L" Series) 12-13
- 2. 4L, 3. 1L, 3. 4L, 3. 8L, 4. 6L & 5. 7L 11.4-12.6
- 3. 0L
- "J" Body 12.0
- "V" Body 11.4-12.6
- 3. 5L 11.6-12.8

(1) - Injector resistance speci fi cati on is at 50-95øF (10-35øC).
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IDLE SPEED & MIXTURE

NOTE: Idle mixture is controlled by Powertrain Control Module (PCM). Idle speed is preset by manufacturer and is not adjustable.

THROTTLE POSITION (TP) SENSOR

NOTE: TP sensor is not adjustable unless specified otherwise. For further testing procedures, refer to appropriate SELF-DIAGNOSTICS or SYSTEM & COMPONENT TESTING article.

NOTE: On some models, throttle control is electronic with NO mechanical link from engine to accelerator pedal. The PCM and Throttle Actuator Control (TAC) module monitors the position of accelerator pedal based on signals from a nonadjustable Accelerator Pedal Position (APP) sensor. The APP sensor is mounted above accelerator pedal.

TP SENSOR ADJUSTMENT VOLTAGE
AA
Appl i cati on (1) Vol ts

- 1. 0L (2)
- 1. 3L 0.42-1.0 To 3.0-4.8
- 1. 8L 0.3-0.8 To 3.2-4.9
- 1. 9L 0.2-0.6 To 4.5-4.9
- 2. 2L
- "J" Body
- Cavalier & Sunfire 0.2-0.9 To 5.0
- Saturn ("L" Series) 0.35-4.65 Or Greater
- 2. 4L 0.2-0.9 To 5.0
- 3. 0L
- Sensor No. 1 (3)

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Sensor No. 2 (4)
3. 1L, 3. 4L, 3. 5L & 4. 6L (3)
3. 8L
Camaro & Firebird
 Sensor No. 1 (3)
 Sensor No. 2 (4)
All Others (3)
5. 7L
"F" Body (3)
"Y" Body
 Sensor No. 1 (5)
 Sensor No. 2 (6)

- (1) - Voltage range is from idle position to wide open throttle position.
- (2) - Ensure engine is at normal operating temperature. Connect a DVOM (backprobe) between ground and TP sensor signal circuit at PCM. See appropriate wiring diagram in WIRING DIAGRAMS article. Voltage reading should be 0.98-1.02 volts with a .140" (3.5 mm) feeler gauge placed between throttle stop screw and throttle lever. Adjust or replace as necessary.
- (3) - Voltage range is from less than one volt at closed throttle to greater than 4 volts at wide open throttle.
- (4) - Voltage range is from greater than 4 volts at closed throttle to less than one volt at wide open throttle.
- (5) - Voltage range is from less than 1.1 volt at closed throttle to 3.7 volts at wide open throttle.
- (6) - Voltage range is from greater than 3.9 volts at closed throttle to less than 1.2 volt at wide open throttle.

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END OF ARTICLE