

# C - SPECIFICATIONS

## 1992 Subaru SVX

1992 ENGINE PERFORMANCE  
Subaru Service & Adjustment Specifications

Justy, Legacy, Loyale, SVX

### 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 an adjustment procedure and only need a specification.

### CAPACITIES

#### BATTERY SPECIFICATIONS

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Application	Amp Hr. Rating
Justy .....	52
Legacy .....	99 Or 111
Loyale .....	78 Or 111
SVX .....	133

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#### FLUID CAPACITIES - JUSTY

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Application	Quantity
Cooling System (Including Heater)	
Carbureted .....	4.9 Qts. (4.6L)
PFI .....	5.2 Qts. (4.9L)
Crankcase (Includes Filter) .....	3.0 Qts. (2.8L)
ECVT Transaxle (Dexron-II)	
FWD .....	3.5 Qts. (3.3L)
4WD .....	4.4 Qts. (4.2L)
Manual Transaxle (SAE 85W-90)	
FWD .....	2.5 Qts. (2.4L)
4WD .....	3.6 Qts. (3.4L)
Power Steering .....	1.5 Pts. (0.7L)
Rear Differential (4WD) .....	1.7 Pts. (0.8L)

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#### FLUID CAPACITIES - LEGACY

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Application	Quantity
Automatic Transaxle (Dexron-II)	
Non-Turbo .....	8.8 Qts. (8.3L)
Turbo .....	9.4 Qts. (8.9L)
Automatic Transaxle Differential .....	1.5 Qts. (1.4L)
Cooling System (Including Heater)	
Non-Turbo .....	6.3 Qts. (6.0L)
Turbo .....	7.2 Qts. (7.0L)
Crankcase (Includes Filter)	
Lower Level .....	3.7 Qts. (3.5L)
Upper Level .....	4.8 Qts. (4.5L)
Manual Transaxle (SAE 85W-90)	
FWD .....	3.5 Qts. (3.3L)
4WD .....	3.7 Qts. (3.5L)

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Power Steering .....	1.5 Pts. (0.7L)
Rear Differential (4WD) .....	1.7 Pts. (0.8L)

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#### FLUID CAPACITIES - LOYALE

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Application	Quantity
Automatic Transaxle (Dexron-II)	
FWD .....	6.6 Qts. (6.2L)
4WD .....	7.0 Qts. (6.6L)
Automatic Transaxle Differential .....	2.5 Pts. (1.2L)
Cooling System (Including Heater) .....	5.8 Qts. (5.5L)
Crankcase (Includes Filter) .....	4.2 Qts. (4.0L)
Manual Transaxle (SAE 85W-90)	
FWD .....	2.7 Qts. (2.6L)
4WD .....	3.5 Qts. (3.3L)
Power Steering .....	1.5 Pts. (0.7L)
Rear Differential (4WD) .....	1.7 Pts. (0.8L)

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#### FLUID CAPACITIES - SVX

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Application	Quantity
Automatic Transmission .....	10.0 Qts. (9.5L)
Automatic Transmission Differential .....	1.2 Pts. (0.6L)
Cooling System (Including Heater) .....	7.2 Qts. (7.0L)
Crankcase (Including Filter) .....	5.3 Qts. (5.0L)
Power Steering .....	2.2 Pts. (1.0L)
Rear Differential (4WD) .....	1.7 Pts. (0.8L)

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## QUICK-SERVICE

### SERVICE INTERVALS & SPECIFICATIONS

#### REPLACEMENT INTERVALS

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Component	Interval (Miles)
Air Filter .....	30,000
Camshaft Timing Belt .....	60,000
Coolant (Radiator) .....	30,000
Drive Belt(s) .....	60,000
ECVT Fluid .....	30,000
Fuel Filter .....	30,000
Oil & Filter .....	3000
Spark Plugs .....	30,000

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#### BELT ADJUSTMENT - JUSTY

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Application	Deflection - In. (mm)
Alternator	
With A/C .....	.45-.49 (11.5-12.5)
Without A/C .....	.35-.39 (9.0-10.0)

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#### BELT ADJUSTMENT - LEGACY

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Application	Deflection - In. (mm)
A/C .....	.35-.39 (9.0-10.0)
Alternator & P/S .....	.35-.43 (9.0-11.0)

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#### BELT ADJUSTMENT - LOYALE

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Application	Deflection - In. (mm)
Alternator	
With A/C .....	.43-.47 (11.0-12.0)
With A/C & P/S .....	.30-.34 (7.5-8.5)
With P/S .....	.39-.43 (9.0-11.0)
Without A/C & P/S .....	.51-.59 (13.0-15.0)

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#### BELT ADJUSTMENT - SVX

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Application	Deflection - In. (mm)
A/C .....	.28-.32 (7.0-8.0)
Alternator & P/S .....	.20-.42 (5.0-6.0)

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## MECHANICAL CHECKS

### ENGINE COMPRESSION

#### COMPRESSION SPECIFICATIONS - JUSTY

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Application	Specification
Compression Pressure .....	135-156 psi (9.5-11.0 kg/cm <sup>2</sup> )
Compression Ratio .....	9.1:1
Maximum Variation Between Cylinders .....	28 psi (2.0 kg/cm <sup>2</sup> )

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#### COMPRESSION SPECIFICATIONS - LEGACY

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Application	Specification
Compression Pressure	
Non-Turbo .....	156-185 psi (11.0-13.0 kg/cm <sup>2</sup> )
Turbo .....	142-171 psi (10.0-12.0 kg/cm <sup>2</sup> )
Compression Ratio	
Non-Turbo .....	9.5:1
Turbo .....	8.0:1
Maximum Variation Between Cylinders .....	28 psi (2.0 kg/cm <sup>2</sup> )

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#### COMPRESSION SPECIFICATIONS - LOYALE

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Application	Specification
Compression Pressure .....	168 psi (11.8 kg/cm <sup>2</sup> )
Compression Ratio .....	9.5:1
Maximum Variation Between Cylinders .....	28 psi (2.0 kg/cm <sup>2</sup> )

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#### COMPRESSION SPECIFICATIONS - SVX

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Application	Specification
Compression Pressure	171-206 psi (12.0-14.5 kg/cm <sup>2</sup> )
Compression Ratio	10.0:1
Maximum Variation Between Cylinders	28 psi (2.0 kg/cm <sup>2</sup> )

## VALVE CLEARANCE

NOTE: Legacy, Loyale and SVX use hydraulic lash adjusters; adjustments are not required.

### VALVE CLEARANCE SPECIFICATIONS - JUSTY

Application	(1) In. (mm)
Intake	.006 (.15)
Exhaust	.010 (.25)

(1) - Adjust valves with engine cold.

## IGNITION SYSTEM

### IGNITION COIL

#### IGNITION COIL RESISTANCE

Application	Primary	Secondary
Justy	0.81-0.99	8500-11,000
Legacy		
Hitachi	0.70	13,500
Diamond	0.70	21,000
Loyale	0.84-1.02	8000-12,000
SVX	(2)	(2)

(1) - OHMS @ 68°F (20°C)

(2) - Information is not available from manufacturer.

## DISTRIBUTOR SENSORS

NOTE: Information on distributor sensors is not available from manufacturer. See IGNITION CHECKS in F - BASIC TESTING article in the ENGINE PERFORMANCE Section for test procedures.

## HIGH TENSION WIRE RESISTANCE

NOTE: Legacy and SVX use Direct Ignition System (DIS).

### HIGH TENSION WIRE RESISTANCE - JUSTY

Application	Ohms
No. 1	458-10,680
No. 2	411-959
No. 3	290-676
Coil	459-10,710

HIGH TENSION WIRE RESISTANCE - LOYALE

Application	Ohms
No. 1 .....	243-567
No. 2 .....	838-19,560
No. 3 .....	790-18,440
No. 4 .....	241-562

**SPARK PLUGS**

SPARK PLUG TYPE

Application	NGK	Nippondenso
Justy & Loyale .....	(1) BPR6ES-11 .....	(2) W20EPR-U11
Legacy .....	(3) BKR6E-11 .....	(4) K20PUR-11
SVX .....	PFR6G-11 .....	PK20PR-11

- (1) - Spark Plug No. BPR5ES-11 or BPR7ES-11 may also be used.
- (2) - Spark Plug No. W16EPR-U11 or W22EPR-U11 may also be used.
- (3) - Spark Plug No. BKR5E-11 or BKR7E-11 may also be used.
- (4) - Spark Plug No. K16PUR-11 or K22PUR-11 may also be used.

SPARK PLUG SPECIFICATIONS

Application	Gap In. (mm)	Torque Ft. Lbs. (N.m)
All Models .....	.039-.043 (1.0-1.1)	15 (20)

**FIRING ORDER & TIMING MARKS**

NOTE: For firing order, see Figs. 1-3. For timing marks, see Figs. 4-6.

▲ FRONT OF VEHICLE

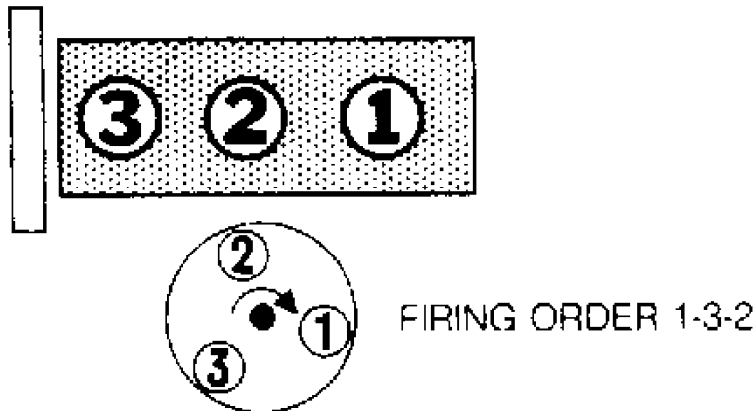
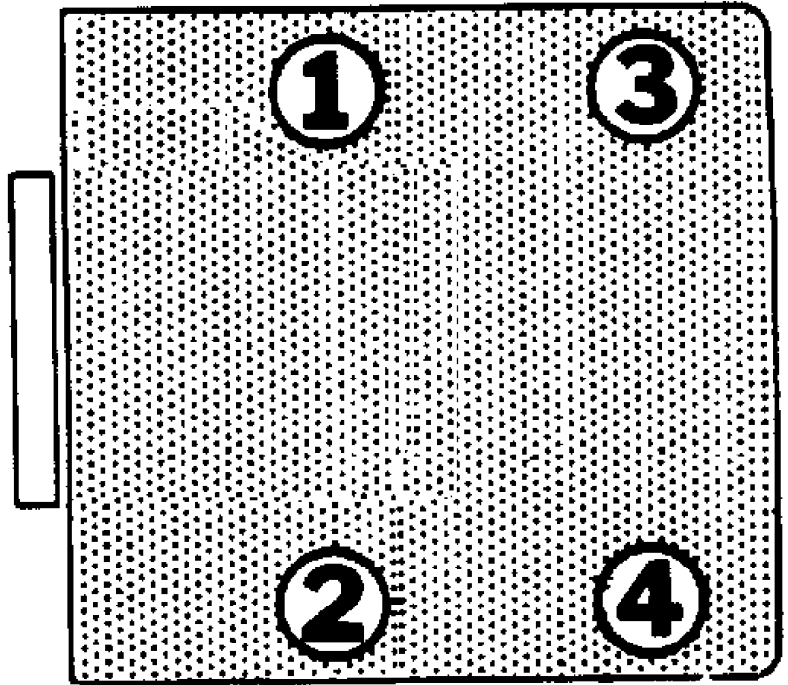


Fig. 1: Firing Order & Distributor Rotation - 3-Cylinder

FIRING ORDER 1-3-2-4

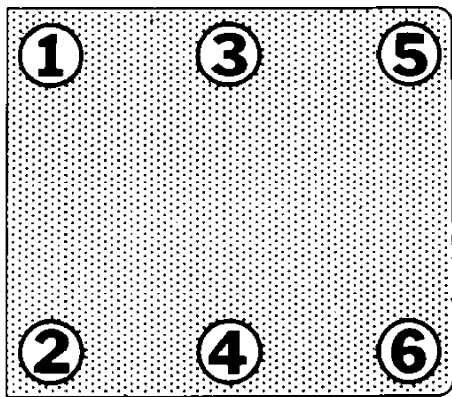
← FRONT OF VEHICLE



46113

Fig. 2: Firing Order & Distributor Rotation - 4-Cylinder

FIRING ORDER 1-6-3-2-5-4



← FRONT OF VEHICLE

92J26541

Fig. 3: Firing Order - 6-Cylinder

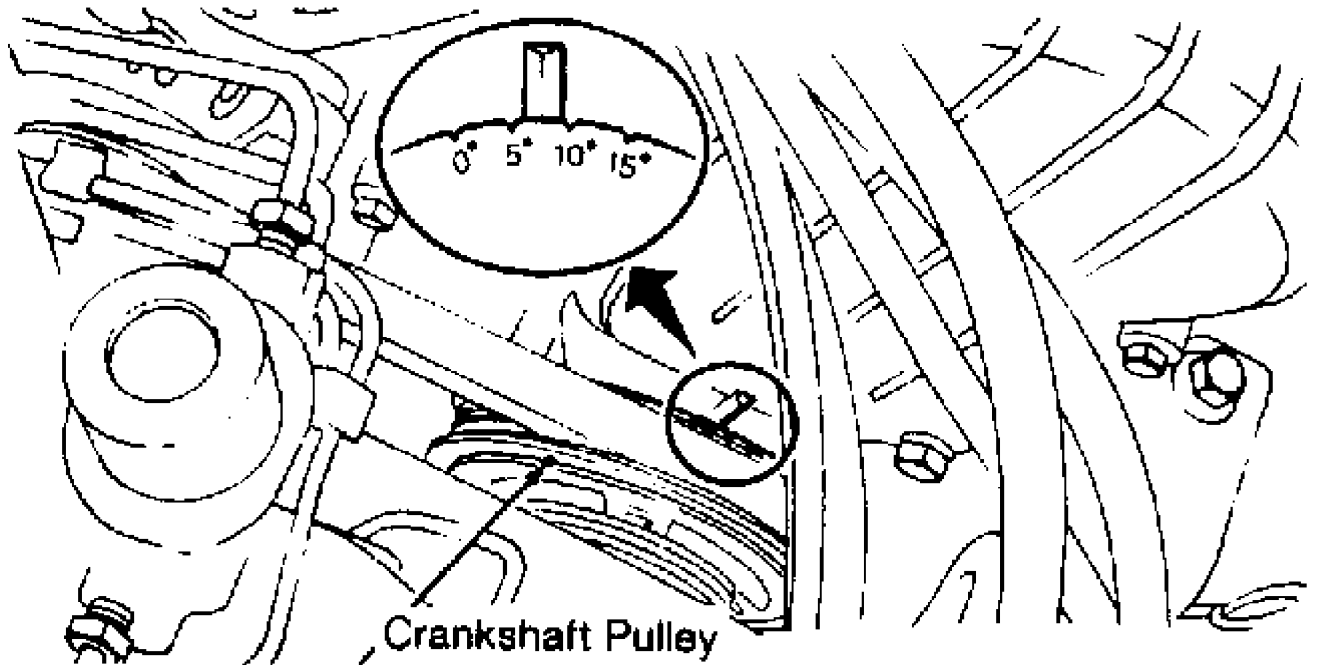


Fig. 4: Locating Ignition Timing Mark - 3-Cylinder  
Courtesy of Subaru of America, Inc.

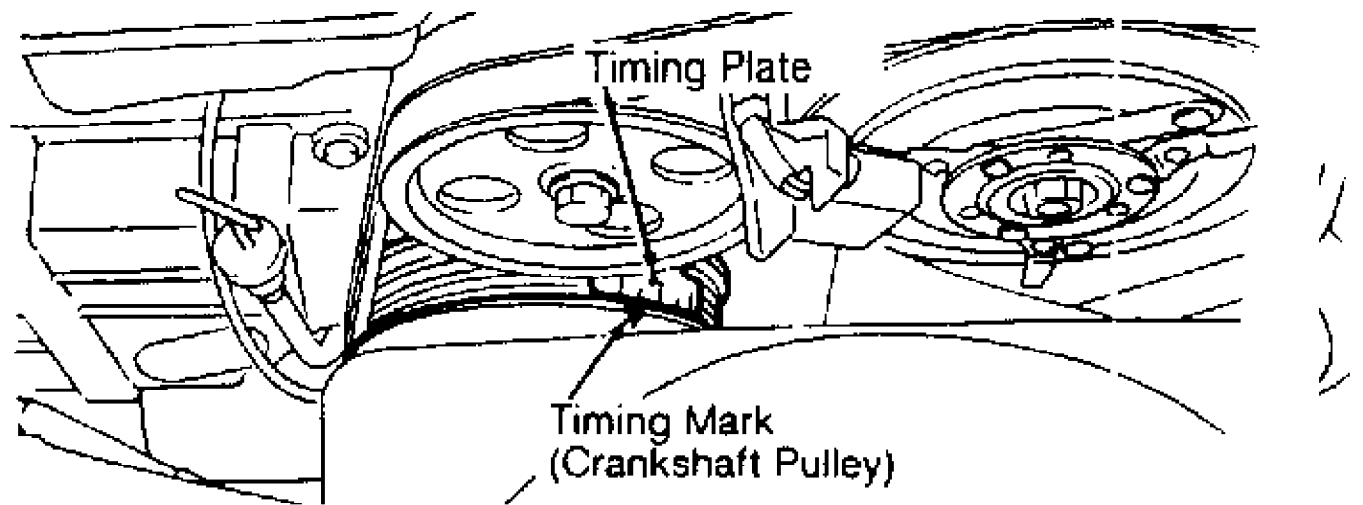


Fig. 5: Locating Ignition Timing Mark - 4-Cylinder  
Courtesy of Subaru of America, Inc.

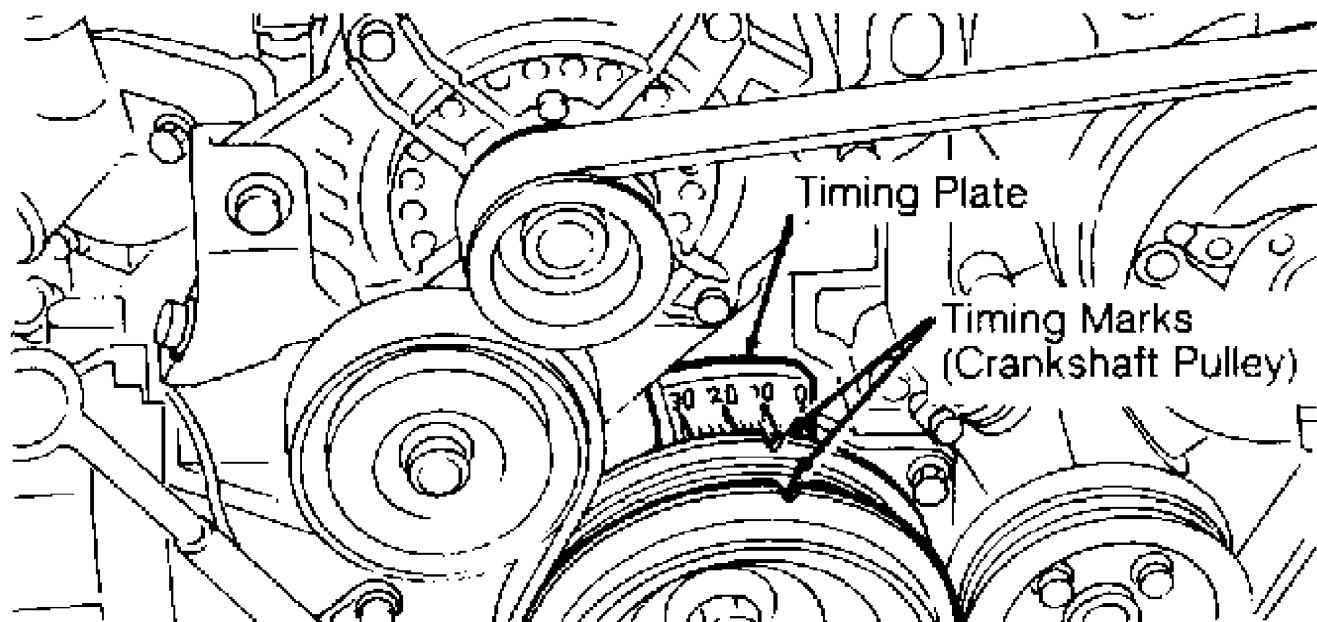


Fig. 6: Locating Ignition Timing Marks - 6-Cylinder  
 Courtesy of Subaru of America, Inc.

## IGNITION TIMING

### IGNITION TIMING (1)

Application	Auto. Trans.	Man. Trans.
Justy .....	(2) 5 @ 800 .....	(2) 5 @ 850
Legacy		
Non-Turbo .....	12-28 @ 700 .....	18-22 @ 700
Turbo .....	7-23 @ 700 .....	7-23 @ 700
Loyale .....	20 @ 700 .....	20 @ 700
SVX .....	12-28 @ 610 .....	N/A

(1) - Degrees BTDC @ RPM.

(2) - With test mode connector connected.

## DISTRIBUTOR SPECIFICATIONS

NOTE: All models use electronic ignition with spark timing controlled by emission system control unit.

### PICK-UP COIL AIR GAP

Application	In. (mm)
Justy .....	.008-.016 (.20-.40)

## FUEL SYSTEM

### FUEL PUMP

NOTE: Fuel pump performance measures fuel pressure and volume availability, not regulated fuel pressure.



## FUEL PUMP PERFORMANCE

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Application	Pressure psi (kg/cm <sup>2</sup> )	Min. Vol. In 30 Sec. Pts. (L)
Justy		
Carbureted	1.3-2.0 (.09-.14)	.35 (.17)
PFI	(1)	(1)
Legacy	36 (2.5)	1.4 (0.7)
Loyale	36-50 (2.5-3.5)	1.4 (0.7)
SVX	26-30 (1.8-2.1)	(1)

(1) - Information is not available from manufacturer.

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## REGULATED FUEL PRESSURE

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Application	At Idle psi (kg/cm <sup>2</sup> )
Except Justy	36 (2.6)
Justy	31-34 (2.2-2.4)

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## INJECTOR RESISTANCE

### INJECTOR RESISTANCE SPECIFICATIONS

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Application	Ohms
Justy	10.0-18.0
Legacy & SVX	11.0-12.0
Loyale	0.5-2.0

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## IDLE SPEED & MIXTURE

### IDLE SPEED SPECIFICATIONS

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Application	RPM
Justy (1)	
Carbureted	750-850
PFI	650-750
Legacy	
With Accessories Off	600-800
With Accessories On	800-900
Loyale	500-600
SVX	
With Accessories Off	510-710
With Accessories On	750-850

(1) - With test mode and read memory connectors connected.

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## FAST IDLE SPEED

NOTE: Fast idle speed is not available from manufacturer. See D - ADJUSTMENTS article in the ENGINE PERFORMANCE Section for adjustment procedure.

## THROTTLE POSITION SENSOR

NOTE: See D - ADJUSTMENTS article in the ENGINE PERFORMANCE Section for Throttle Position Sensor (TPS) adjustment procedure.