

# C - SPECIFICATIONS - TURBO

1995 Volvo 850

1995 ENGINE PERFORMANCE  
Volvo - Service & Adjustment Specifications  
850 - Turbo

## 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 TABLE

Application	Cold Cranking Amp. Rating
850 .....	440 Or 520

### FLUID CAPACITIES TABLE

Application	Qts. (L)
Crankcase (Includes Filter) (1) .....	5.6 (5.3)
Cooling System (Includes Heater) .....	7.4 (7.0)
M/T (M56L) Volvo Synthetic Gearbox Oil (97308) .....	2.2 (2.1)
A/T (AW 50) (2) .....	8.0 (7.6)

- (1) - Add .95 qt. (.9L) if oil cooler has been drained.  
(2) - Use ATF Dexron IIE or Mercon fluid.

## QUICK-SERVICE

### SERVICE INTERVALS & SPECIFICATIONS

#### REPLACEMENT INTERVALS TABLE

Component	Miles
Air Filter .....	30,000
Timing Belt .....	70,000
Coolant .....	(1)
EGR	
Inspect .....	60,000
Clean (2) .....	100,000
Fuel Filter .....	60,000
Oil & Filter .....	
Normal Service .....	10,000
Severe Service .....	5000
PCV (Inspect & Clean) .....	60,000
Spark Plugs .....	30,000

- (1) - Coolant replacement interval is no longer recommended by manufacturer.  
(2) - After 100,000 mile EGR service, clean every 20,000

miles.

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BELT ADJUSTMENT TABLE

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Application	Deflection - In. (mm)
Accessory Drive Belt .....	(1)
Timing Belt .....	(1)

(1) - No adjustment is necessary, vehicle is equipped with a self-tensioner.

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**MECHANICAL CHECKS**

**ENGINE COMPRESSION**

COMPRESSION SPECIFICATIONS TABLE

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Application	Specification
Compression Ratio .....	8.5:1

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**VALVE CLEARANCE**

NOTE: Equipped with hydraulic lifters.

**IGNITION SYSTEM**

**IGNITION COIL**

IGNITION COIL RESISTANCE TABLE - Ohms @ 68°F (20°C)

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Application	Primary	Secondary
Turbo .....	.5-1.5	8000-9000

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**SPARK PLUGS**

SPARK PLUG TYPE TABLE

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Application	Bosch	Champion
Turbo .....		RC7GYC

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SPARK PLUG SPECIFICATIONS TABLE

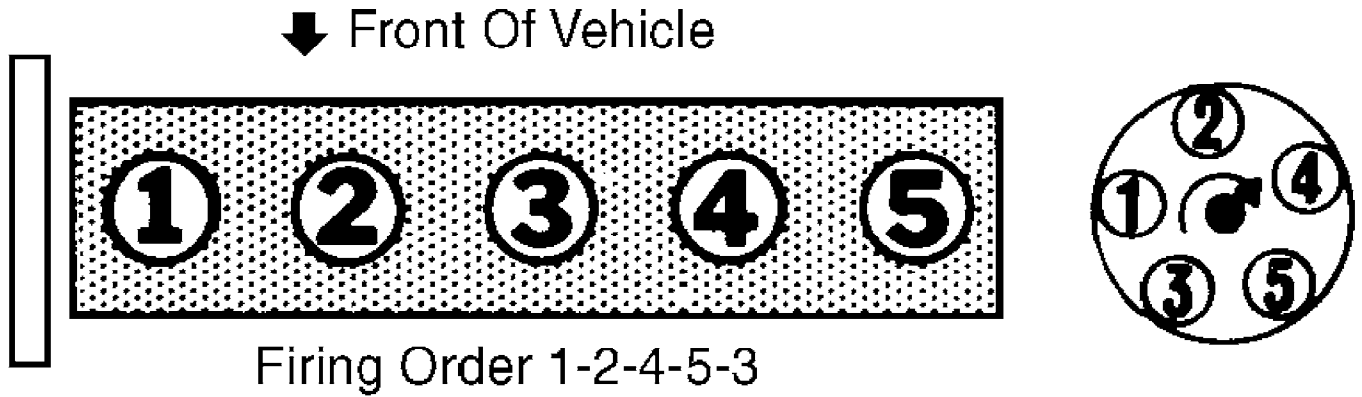
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Application	Gap In. (mm)	Torque Ft. Lbs. (N.m)
850 .....	.028-.032 (.70-.80)	18 (25)

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**FIRING ORDER**

Refer to illustration for firing order and distributor rotation. See Fig. 1.



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Fig. 1: Firing Order & Distributor Rotation

**IGNITION TIMING**

IGNITION TIMING TABLE (Degrees BTDC @ RPM)

Application	(1) Timing
Turbo .....	4-8 @ 750-850
(1) - Ignition timing computer-controlled. Not adjustable.	

**FUEL SYSTEM**

**FUEL PUMP**

FUEL PUMP PERFORMANCE TABLE (1)

Application	Pressure psi (kg/cm <sup>2</sup> )	Volume In 30 Sec. Pts. (L)
850 .....	43.5 (3.06)	1.1 (.52)

(1) - At 12 volts, 68°F (20°C), with engine off and fuel pump relay by-passed.

**IDLE SPEED & MIXTURE**

IDLE SPEED & CO LEVEL TABLE (1)

Application	Idle RPM	(2) CO Level
850 .....	(3) 850	(3) .2-.8%

(1) - Idle speed/CO level can only be checked, not adjusted.  
 (2) - Measured upstream of catalytic converter with oxygen sensor connected.  
 (3) - With cooling fan off.

**FAST IDLE**

NOTE: All idle speeds are controlled by electronic control unit.  
Specifications on fast idle not at time of publication.

### **THROTTLE SWITCH**

See the D - ADJUSTMENTS - TURBO article for switch adjustments.