

C - SPECIFICATIONS

Article Text

1993 Volkswagen Passat

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Wednesday, March 22, 2000 10:04PM

ARTICLE BEGINNING

1993 ENGINE PERFORMANCE

Volkswagen Service & Adjustment Specifications

Passat GL, Passat GLX

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
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Passat GL	
With Auto. Trans.	63
Without Auto. Trans.	54
Passat GLX	63

(1) - Information is not available from manufacturer.

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FLUID CAPACITIES

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Application	Quantity
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Cooling System (Includes Heater)	
Passat GL	5.9 Qts. (5.6L)
Passat GLX	9.1 Qts. (8.6L)
Crankcase (Includes Filter)	
Passat GL	4.3 Qts. (4.1L)
Passat GLX	6.3 Qts. (6.0L)
Man. Transaxle (SAE 75-80/API	
GL-4 Or SAE 75W-90, G50	
Synthetic Gear Oil)	2.1 Qts. (2.0L)

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QUICK-SERVICE

SERVICE INTERVALS & SPECIFICATIONS

REPLACEMENT INTERVALS

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Component	Miles
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Air Filter	30,000
Coolant	30,000
Fuel Filter (1)	15,000
Oil & Filter	7500
Spark Plugs	30,000

- (1) - Discard mini-fuel filter at 1000-mile maintenance interval. Install new copper gaskets.

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BELT ADJUSTMENT

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Application	Specification
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A/C Compressor (Passat GL)

New	(1) 72 INCH Lbs. (8 N.m)
Used	(1) 36 INCH Lbs. (4 N.m)
Alternator (Passat GL)	(1,2) 72 INCH Lbs. (8 N.m)
Power Steering (Passat GL)	13/64" (5 mm)
Serpentine Belt (Passat GLX)	(3)

- (1) - Turn tensioning nut on toothed rack with Torque Wrench (VAG1410) and Ring Insert (SW VAG 1410-2).
(2) - Start engine and let it idle for 5 minutes. Loosen bolts and retighten belt to specification.
(3) - Serpentine belt tension is automatically adjusted by the tensioner.

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MECHANICAL CHECKS

ENGINE COMPRESSION

COMPRESSION SPECIFICATIONS

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Application	Specification
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Compression Ratio

Passat GL	10.8:1
Passat GLX	10.0:1
Compression Pressure	142-186 psi (10.0-13.0 kg/cm ²)

Minimum Compression Pressure ... 106 psi (7.5 kg/cm²)

Maximum Variation

Between Cylinders

43 psi (3.0 kg/cm²)
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VALVE CLEARANCE

NOTE: All models are equipped with hydraulic lifters. No adjustments are required.

[illegible]

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IGNITION TIMING ADVANCE (Degrees BTDC @ RPM)

Application Specification

Passat GL & Passat GLX (2)

(2) - Ignition timing advance is computer controlled.

Information is not available from manufacturer.

FUEL SYSTEM

FUEL PUMP

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

FUEL PUMP PERFORMANCE

Application Pressure Min. Vol. In 30 Sec.

psi (kg/cm²) Pts. (L)

Passat GL (2) 87-94 (6.1-6.6) .. 1.0-1.4 (0.5-0.7)

Passat GLX (1) 58 (4.0) 1.0-1.4 (0.5-0.7)

(1) - Using Adapter Cable (VAG 1348/3-2) between battery positive terminal and terminal No. 4 of fuel pump relay socket. Fuel pump energized, with 10-12 volts at fuel pump and engine off.

(2) - Briefly operate starter and ensure fuel pump runs for at least one second. Alternate method is to disconnect Electronic Control Module (ECM) and ground terminal No. 12 using Remove Control Switch (VAG 1348/3A).

REGULATED FUEL PRESSURE

Application At Idle At Idle

w/Vacuum w/o Vacuum
psi (kg/cm²) (1) psi (kg/cm²)

Passat GL (2) 87-94 (6.1-6.6) ... (3) 87-94 (6.1-6.6)

Passat GLX 50 (3.5) 58 (4.0)

(1) - With vacuum hose disconnected from fuel pressure regulator.

(2) - Approximately 4.3-7.2 psi (0.3-0.5 kg/cm²) below system pressure, with differential pressure regulator disconnected.

(3) - Approximately 18.5-23.0 psi (1.3-1.6 kg/cm²) below system pressure, with differential pressure regulator connected.

INJECTOR RESISTANCE

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INJECTOR RESISTANCE SPECIFICATIONS

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Application	Ohms
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Passat GL (3)
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Passat GLX 15.0-21.5
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(1) - Resistance is 3.0-4.0 ohms for all 5 injectors.

(2) - Resistance is 3.7-5.0 ohms for all 4 injectors.

(3) - Information is not available from manufacturer.

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IDLE SPEED & MIXTURE

IDLE SPEED & CO LEVEL

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Application	Idle RPM	CO Level %
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Passat GL (1) 800-1000 0.2-1.2
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Passat GLX (2) 650-750 0.3-1.5
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(1) - Idle speed is not adjustable.

(2) - Idle speed and fuel mixture (CO level) are not adjustable.

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DASHPOT SPECIFICATION

Passat GLX

Gap between limiter (stop) screw and throttle lever must be 0.10-0.14" (2.5-3.5 mm).

END OF ARTICLE