

C - SPECIFICATIONS

Article Text

1996 Volkswagen Golf
For Volkswagen Technical Site
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Thursday, August 19, 1999 11:36PM

ARTICLE BEGINNING

1996 ENGINE PERFORMANCE

Volkswagen Service & Adjustment Specifications

Cabrio, Golf III, GTI, Jetta III, Passat

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

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Application	Amp Hr. Rating
1. 9L & 2. 0L	(1)
2. 8L	63

(1) - Information is not available from manufacturer.

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FLUID CAPACITIES TABLE

AA

Application	Quantity
Auto. Trans.	
A/T 01M (VW ATF 0r Equivalent)	
Dry Fill	5.6 Qts. (5.3L)
Refill	3.2 Qts. (3.0L)
A/T 096 (Dexron II)	
Dry Fill	5.9 Qts. (5.6L)
Refill	3.2 Qts. (3.0L)
Auto Trans. Final Drive	
A/T 01M (VW ATF 0r Equivalent) (1)	0.8 Qts (0.76L)
A/T 096 (SAE 75W-90, Synthetic Gear Oil) (1)	0.8 Qts. (0.76L)
Cooling System (Includes Heater)	
1. 9L & 2. 0L	6.9 Qts. (6.5L)
2. 8L	9.1 Qts. (8.6L)
Crankcase (Includes Filter)	
1. 9L	4.5 Qts. (4.3L)
2. 0L	4.3 Qts. (4.1L)
2. 8L	6.3 Qts. (6.0L)
Man. Transaxle (SAE 80W-90/API GL-4)	2.1 Qts. (2.0L)

(1) - Dry fill capacity given. Use ONLY specified oil.

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No oil change required.

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QUICK-SERVICE

SERVICE INTERVALS & SPECIFICATIONS

REPLACEMENT INTERVALS TABLE

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Component	Miles
Air Filter	30,000
Coolant	30,000
Brake Fluid	(1)
Fuel Filter (2)	30,000
Oil & Filter	7500
Spark Plugs (3)	30,000
Timing Belt	60,000

(1) - Every 2 years regardless of mileage.

(2) - On diesel engine only.

(3) - On gasoline engine only.

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BELT ADJUSTMENT TABLE

AA

Application	Specification
A/C Compressor	(1)
Generator	(1) (2)
Power Steering	
New	(3) 62 INCH Lbs. (7 N.m)
Used	(3) 36 INCH Lbs. (4 N.m)

(1) - Serpentine belt tension automatically adjusted by tensioner.

(2) - Tighten bolts. Start engine and let it idle for 5 minutes.

Loosen and retighten bolts.

(3) - Turn tensioning nut on toothed rack with Torque Wrench (VAG1410) and Ring Insert (SW VAG 1410-2).

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MECHANICAL CHECKS

ENGINE COMPRESSION

COMPRESSION SPECIFICATIONS TABLE

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Application	Specification
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HIGH TENSION WIRE RESISTANCE TABLE	
Application	Ohms
2.0L	
Cap & Coil Suppressors	600- 1400
Spark Plug Connector Suppressors	4000- 6000
2.8L	(1)

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SPARK PLUGS

SPARK PLUG TYPE TABLE

Application		Bosch
2.0L	FR8DS
2.8L	C9MCC

SPARK PLUG SPECIFICATIONS

Application		Gap	Torque
		In. (mm)	Ft. Lbs. (N.m)
2.0L024 (.60)	22 (30)
2.8L028-.031 (.70-.80)	18 (25)

FIRING ORDER & TIMING MARKS

NOTE: To identify firing order and/or distributor rotation, see Fig. 1.

1.9L

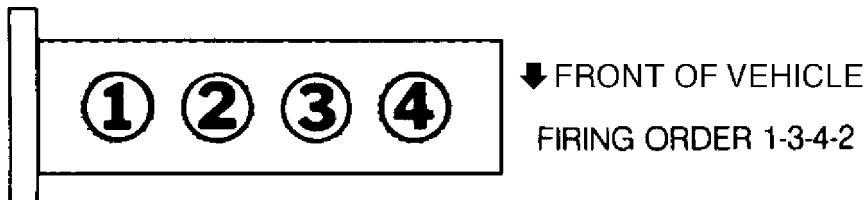
Information is not available from manufacturer.

2.0L

Timing mark location is on flywheel. Pointer is on timing hole on transaxle bellhousing.

2.8L

Ignition coil pack is located on left side of cylinder head. When ignition coil is triggered, spark is supplied to 2 spark plugs at one time. One spark plug fires during compression stroke and the other plug fires during exhaust stroke (waste spark).



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Fig. 1: Firing Order & Distributor Rotation - 1.9L
Courtesy of Volkswagen United States, Inc.

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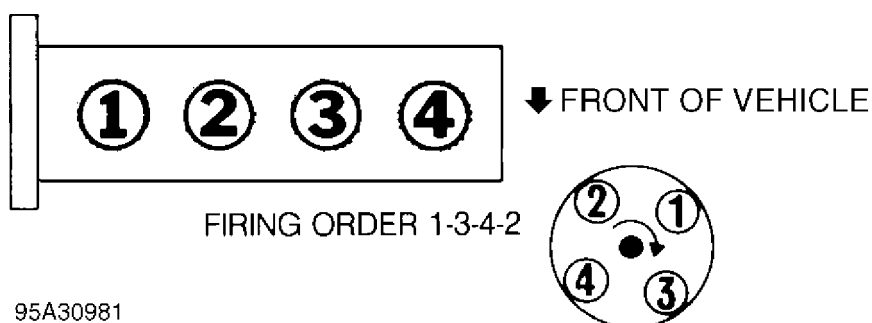
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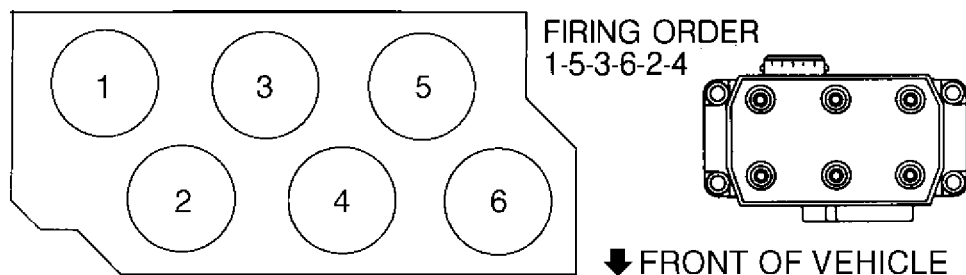
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Fig. 2: Firing Order & Distributor Rotation - 2.0L

Courtesy of Volkswagen United States, Inc.



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Fig. 3: Firing Order & Distributor Rotation - 2.8L

Courtesy of Volkswagen United States, Inc.

IGNITION TIMING

NOTE: Always refer to underhood label for latest specifications.

IGNITION TIMING TABLE (Degrees BTDC @ RPM)

Application			
Checking		Adjusting	
1. 9L	(1)	(1)	
2. 0L	(2) 12 @ 800-880	(3)	
2. 8L	4-8 @ 2000-2500	5-7 @ 2000-2500	

(1) - Information is not available from manufacturer.

(2) - Scan Tester (VAG 1551) in START BASIC SETTING mode.

(3) - Ignition timing is not adjustable.

IGNITION TIMING ADVANCE TABLE (Degrees BTDC @ RPM)

Application		Specification
1. 9L & 2. 0L	(1)	
2. 8L	(2) 27-33 @ 4500	

(1) - Information is not available from manufacturer.

(2) - Vehicle not in BASIC ADJUSTMENT mode, engine oil temperature at 176°F (80°C), and Blue engine coolant

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temperature sensor connected.

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FUEL SYSTEM

FUEL PUMP

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

FUEL PUMP PERFORMANCE TABLE

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Application	Pressure psi (kg/cm ²)	Min. Vol. In 30 Sec. Pts. (L)
1.9L	(1)	(1)
2.0L (2)	43 (3.0)	1.0-1.4 (0.5-0.7)
2.8L (2)	58 (4.0)	1.0-1.4 (0.5-0.7)

(1) - Information is not available from manufacturer.

(2) - 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.

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REGULATED FUEL PRESSURE TABLE

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Application	At Idle W/ Vacuum psi (kg/cm ²)	At Idle W/O Vacuum (1) psi (kg/cm ²)
1.9L	(2)	(2)
2.0L	36 (2.5)	43 (3.0)
2.8L	50 (3.5)	58 (4.0)

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

(2) - Information is not available from manufacturer.

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INJECTOR RESISTANCE

INJECTOR RESISTANCE SPECIFICATIONS TABLE

AA

Application	Ohms
1.9L	(1)
2.0L	14.0-21.5
2.8L	15.0-21.5

(1) - Information is not available from manufacturer.

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IDLE SPEED & MIXTURE

IDLE SPEED & C0 LEVEL TABLE

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Application	Idle RPM	C0 Level %
2.0L	800-880	0.3-1.2
2.8L (1)	650-750	0.3-1.5

(1) - Idle speed and fuel mixture (C0 level) are not adjustable.

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DASHPOT SPECIFICATION

2.8L

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

END OF ARTICLE