

# C - SPECIFICATIONS

## Article Text

1993 Volkswagen EuroVan  
For Volkswagen Technical Site  
Copyright © 1998 Mitchell Repair Information Company, LLC  
Saturday, March 18, 2000 10:31PM

### ARTICLE BEGINNING

1993 ENGINE PERFORMANCE  
Service & Adjustment Specifications

EuroVan

### 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

Application	Amp Hr. Rating
Primary Battery	63
Secondary Battery	92

#### FLUID CAPACITIES

Application	Quantity
Auto. Trans. (Dexron-II)	
Dry Fill	5.9 Qts. (5.6L)
Refill (Oil Change)	3.2 Qts. (3.0L)
Auto. Trans. Final Drive (SAE 75W-90, G50 Synthetic Gear Oil) (1)	1.2 Qts. (1.15L)
Cooling System (Includes Heater)	12.2 Qts. (11.5L)
Crankcase (Includes Filter)	4.8 Qts. (4.5L)
Man. Transaxle (SAE 75-80/API GL-4 Or SAE 75W-90, G50 Synthetic Gear Oil)	3.2 Qts. (3.0L)

(1) - Dry fill capacity given. Use ONLY synthetic oil specified (Part No. G-052-145-A2). No oil change is required.

### QUICK-SERVICE

#### SERVICE INTERVALS & SPECIFICATIONS

#### REPLACEMENT INTERVALS

Component	Miles
-----------	-------



**C - SPECIFICATIONS**

**Article Text (p. 3)**

1993 Volkswagen EuroVan  
For Volkswagen Technical Site  
Copyright © 1998 Mitchell Repair Information Company, LLC  
Saturday, March 18, 2000 10:31PM

**HIGH TENSION WIRE RESISTANCE**

HIGH TENSION WIRE RESISTANCE

Application	Ohms
Cap & Coil Suppressors .....	600-1400
Spark Plug Connector Suppressors .....	4000-6000

**SPARK PLUGS**

SPARK PLUG TYPE

Application	Bosch
EuroVan .....	(1) N9BMC

(1) - As per Volkswagen Technical Service Bulletin No. 92-03, Group 28, the spark plugs listed in the owner's manual are incorrect. Use only the N9BMC Champion spark plugs listed in this table.

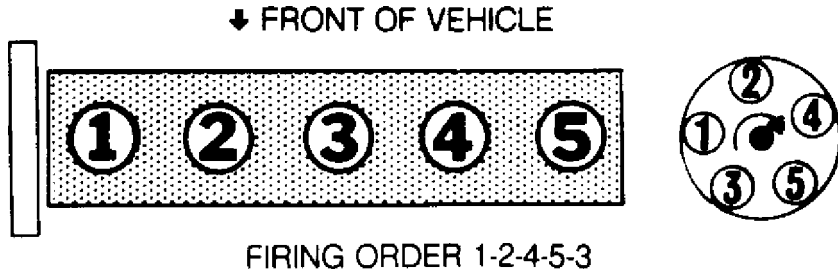
SPARK PLUG SPECIFICATIONS

Application	Gap In. (mm)	Torque Ft. Lbs. (N.m)
EuroVan .....	.028-.035 (.70-.90)	18 (25)

**FIRING ORDER & TIMING MARKS**

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

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



93179689

Fig. 1: Firing Order & Distributor Rotation (2.5L)  
Courtesy of Volkswagen United States, Inc.

**C - SPECIFICATIONS**  
**Article Text (p. 4)**  
 1993 Volkswagen EuroVan  
 For Volkswagen Technical Site  
 Copyright © 1998 Mitchell Repair Information Company, LLC  
 Saturday, March 18, 2000 10:31PM

**IGNITION TIMING**

NOTE: Always refer to underhood label for latest specifications.

IGNITION TIMING (Degrees BTDC @ RPM)

AA

Application	Checking	Adjusting
-------------	----------	-----------

EuroVan (1) ..... 4-8 @ 2000-2500 .. 4-8 @ 2000-2500

(3) - Using Scan Tester (VAG 1551) in BASIC ADJUSTMENT mode, engine oil temperature 176°F (80°C), and Blue engine coolant temperature sensor disconnected.

AA

IGNITION TIMING ADVANCE (Degrees BTDC @ RPM)

AA

Application	Specification
-------------	---------------

California ..... (1) 15-38 @ 2200

Other 49 States ..... (1) 26-36 @ 2200

(1) - Vehicle NOT in BASIC ADJUSTMENT mode, engine oil temperature 176°F (80°C) and Blue engine coolant temperature sensor connected.

AA

**FUEL SYSTEM**

**FUEL PUMP**

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

FUEL PUMP PERFORMANCE

AA

Application	Pressure psi (kg/cm <sup>2</sup> )	Min. Vol. In 30 Sec. Pts. (L)
-------------	---------------------------------------	----------------------------------

EuroVan (1) ..... 43 (3.0) ..... 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.

AA

REGULATED FUEL PRESSURE

AA

Application	At Idle w/Vacuum psi (kg/cm <sup>2</sup> )	At Idle w/o Vacuum (1) psi (kg/cm <sup>2</sup> )
-------------	--	--

**C - SPECIFICATIONS**  
**Article Text (p. 5)**  
1993 Volkswagen EuroVan  
For Volkswagen Technical Site  
Copyright © 1998 Mitchell Repair Information Company, LLC  
Saturday, March 18, 2000 10:31PM

EuroVan ..... 36 (2.5) ..... 43 (3.0)

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

AA

**INJECTOR RESISTANCE**

INJECTOR RESISTANCE SPECIFICATIONS

AA

Application	Ohms
-------------	------

EuroVan

With 2-Pin Connector	..... (1) 15.20.0
----------------------	-------------------

With 6-Pin Connector	..... 12.0-18.0
----------------------	-----------------

(1) - Resistance is 3.0-4.0 ohms for all 5 injectors.

AA

**IDLE SPEED & MIXTURE**

IDLE SPEED & CO LEVEL

AA

Application	Idle RPM	CO Level %
-------------	----------	------------

EuroVan (1)	..... 775-825	..... 0.3-1.2
-------------	---------------	---------------

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

AA

**DASHPOT SPECIFICATION**

Gap between limiter (stop) screw and throttle lever must be 0.06-0.10" (1.5-2.5 mm).

**END OF ARTICLE**