

SPECIFICATIONS & ELECTRIC COOLING FANS

Article Text

1993 Volkswagen EuroVan
For Volkswagen Technical Site
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Saturday, March 18, 2000 10:36PM

ARTICLE BEGINNING

1993 ENGINE COOLING
Volkswagen Specifications & Electric Cooling Fans

Volkswagen; EuroVan

SPECIFICATIONS

BELT ADJUSTMENT

BELT ADJUSTMENT TABLE

Application	Specification
A/C Compressor	
EuroVan	(1)

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

COOLING SYSTEM SPECIFICATIONS

COOLING SYSTEM SPECIFICATIONS (1)

Model	Specification
Coolant Replacement Interval	30,000 Miles
EuroVan	12.2 Qts. (11.5L)

(1) - Cooling system includes heater.

ELECTRIC COOLING FAN

NOTE: If detonation is a problem, it is possible that the cooling fan is not coming on at proper temperature and engine is overheating.

EuroVan

The cooling fan is either a 1 or 2-speed motor. If vehicle is equipped with single-speed motor, the fan comes on at 198-207°F (92-97°C) and turns off at 183-196°F (84-91°C). If equipped with a 2-speed motor, low speed of cooling fan should come on at 198-208°F (92-98°C) on vehicles without A/C, or 183-207°F (84-97°C) on vehicles with A/C. Low speed will shut off at 183-196°F (84-91°C) on all vehicles. High speed comes on at 210-226°F (99-108°C) on vehicles without A/C, or 201-226°F (94-108°C) on vehicles with A/C. High speed will shut off at 196-220°F (91-104°C) on all vehicles.

After-Run Thermostat

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An after-run switch is used to help prevent fuel vaporization. The thermostitch turns cooling fan on when temperatures in engine compartment exceeds 230°F (110°C), and turns it off at 217°F (103°C).

TROUBLE SHOOTING

NOTE: Trouble shooting information not available from manufacturer.

TESTING

ENGINE COOLANT TEMPERATURE (ECT) SENSOR

EuroVan (2.5L)

1) Ensure engine is cold. Connect Scan Tester (VAG 1551) to Data Link Connectors (DLC) located in fold-down storage shelf in front of relay panel. With scan tester in READ MEASUREMENT BLOCK function, read coolant temperature value in channel No. 1 of scan tester.

2) Temperature value must increase uniformly without interruption. If coolant temperature value does not change, test wiring harness for open or short circuit. See WIRING DIAGRAMS article. If circuit is okay, replace engine coolant temperature sensor. See ECT SENSOR LOCATION table. After repairs, erase DTC memory (if applicable) and select END DATA TRANSFER function.

ECT SENSOR RESISTANCE TABLE

Temperature °F (°C)	Ohms
68 (20)	3000-2000
86 (30)	2000-1500
104 (40)	1500-1000
122 (50)	1000-800
140 (60)	700-500
158 (70)	500-375
176 (80)	375-275
194 (90)	275-225

ECT SENSOR LOCATION TABLE

Model	Location
EuroVan	Below Spark Plug No. 1

SERPENTINE DRIVE BELT ROUTING

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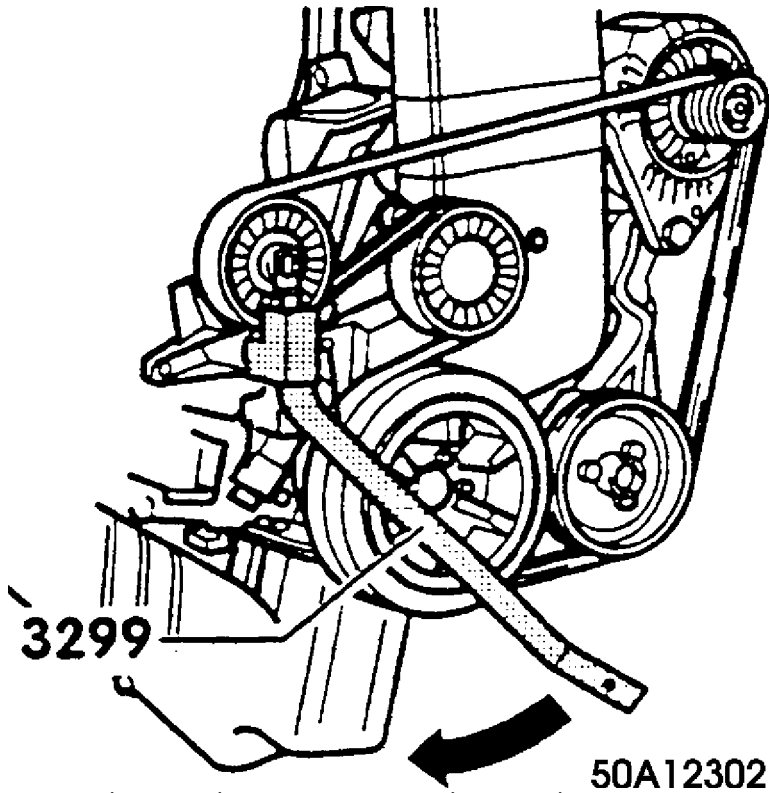


Fig. 1: Serpentine Drive Belt Routing (Without A/C)

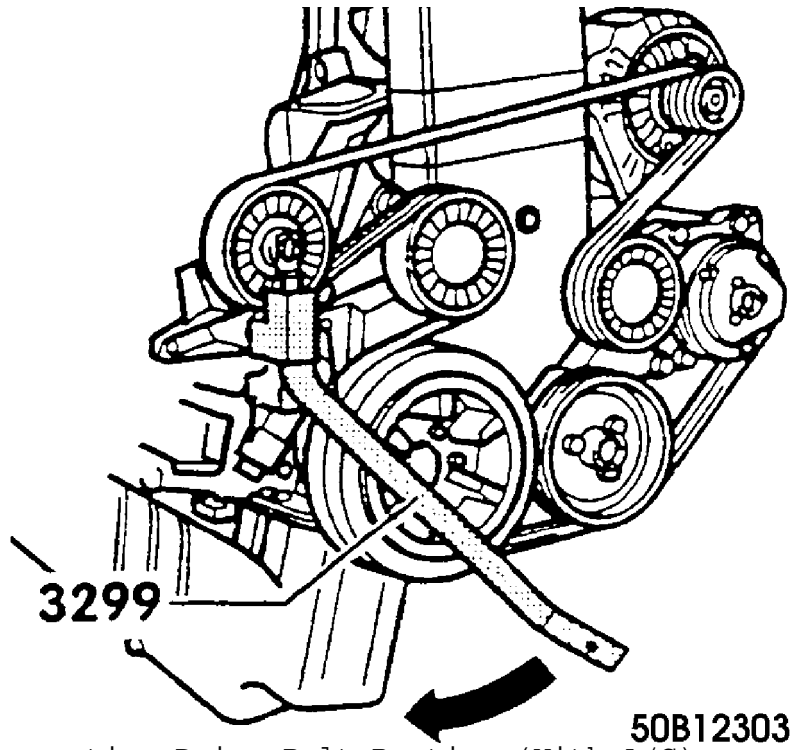


Fig. 2: Serpentine Drive Belt Routing (With A/C)

END OF ARTICLE