



Important!

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Technical Bulletin

Subject: **Generator, Appears to be Leaking Coolant**

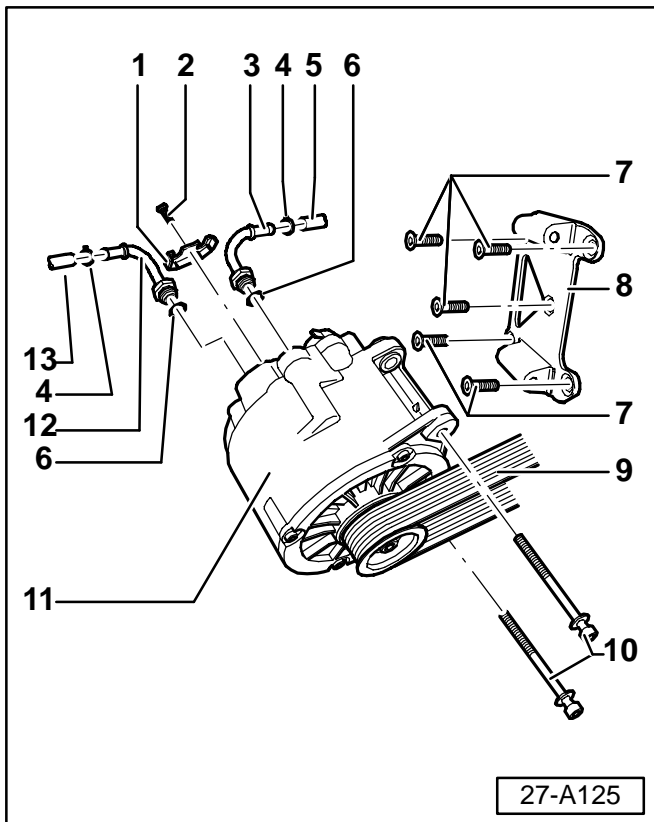
Group: **27**

Number: **05-05**

Model(s): **See Table**

2003 ▶ 2005

Date: **Aug. 16, 2005**



Condition

Generator appears to be leaking coolant.

◀ May be caused by Generator coolant pipe (inlet and/or outlet) O-ring(s) -6- leaking.

Service

◆ **O-rings can be replaced without removing generator. DO NOT replace generator.**

If coolant is found to be leaking from either the inlet or outlet coolant hose at generator, **both O-rings are to be replaced during service with Part No: N 907 834 01 ONLY.**

Applicable part numbers of O-rings -6- which insert into generator: N 907 834 01. This part number is for both inlet and outlet coolant pipes.

Vehicle	VIN	Engine
Touareg	To VIN 5D039368	V8 (AXQ,BHX)
Touareg	N/A	V10 (BKW)
Phaeton	N/A	W12 (BAN,BAP)



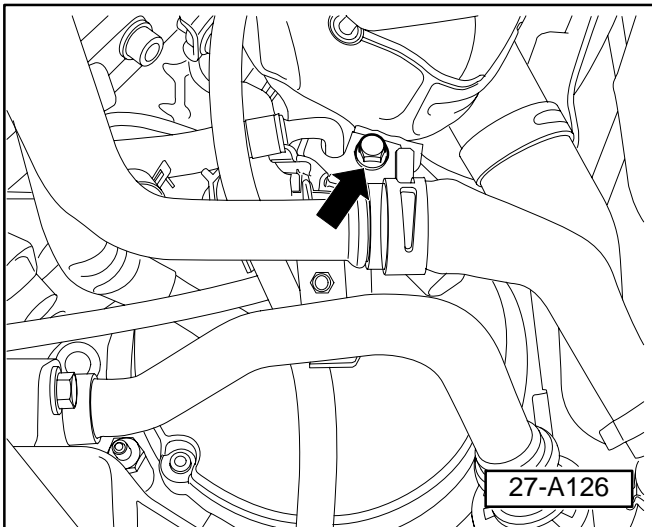
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Touareg V8 O-ring Replacement Procedure

- Disconnect battery, see Repair Manual, *Electrical Equipment* Group 27-Battery, Starter, Generator, Cruise control, "Battery, removing and installing".
- Drain coolant, see Repair Manual, *Engine*, Group 19-Cooling system, Engine coolant, draining and refilling.
- Remove engine trim cover from right side, if applicable.
- Remove right front wheel.
- Remove right front wheel well liner, see Repair Manual, *Body Exterior*, Group 66-Exterior equipment, Front wheel housing liner, assembly overview.
- Remove engine compartment trim covers (if applicable).
- Remove right side engine compartment trim cover clip (if applicable).
- Remove Air Box, see Repair Manual, *Multiport Fuel Injection*, Group 24-Air filter, assembly overview.
- Remove bolt securing outlet coolant pipe. Remove U shaped pipe.
- ◀ - Remove bolt securing inlet coolant pipe from back of generator (arrow).

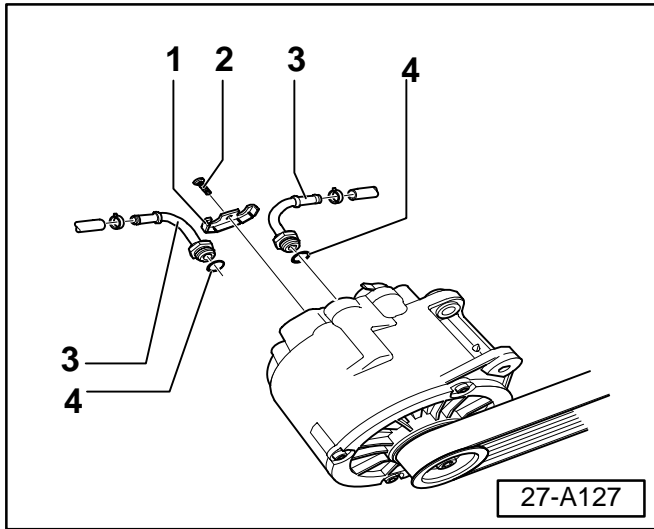




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- Remove bolt securing pipe to oil filter housing.
- Remove pipe and discard O-rings.



Tip:

All O-rings **MUST** be replaced.

Installation

- ← - Lubricate replacement O-rings -4- with silicone lubricant spray, VW Part Number: D 007 000 A2 , install O-rings on coolant pipes.
- Install inlet coolant pipe first by inserting pipe end into block and then rotate pipe slightly inserting other end of pipe into generator.
- Install fastener to generator, tighten to 10 Nm (88.5 in. lbs.).
- Install fastener securing pipe bracket to engine block - tighten to 25 Nm (221 in. lbs.).
- Install outlet coolant pipe by inserting into generator and tighten fastener to 10 Nm (88.5 in. lbs.).
- Install Air Box, see Repair Manual, *Multipoint Fuel Injection*, Group 24-Air filter, assembly overview.
- Install engine compartment trim cover clip (if applicable).
- Install engine compartment trim covers (if applicable).
- Fill cooling system with coolant, see Repair Manual, *Engine*, Group 19-Cooling system, Engine coolant, draining and refilling.
- Pressure test cooling system, see Repair Manual, *Engine*, Group 19-Engine Cooling system, checking for proper seal.
- Inspect for any leaks.



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- Install wheel well liner, see Repair Manual, *Body Exterior*, Group 66-Exterior equipment, Front wheel housing liner, assembly overview.
- Install sound insulation.
- Install right front wheel.
- Reconnect battery, see Repair Manual, *Electrical Equipment* Group 27-Battery, Starter, Generator, Cruise control, “Battery, removing and installing”.
- Using 5051/5052, scan for DTCs and erase codes
- Perform Post Procedure Component Reset/Relearn as follows:

Post procedure component reset / relearn

Access Start Module

Before starting vehicle, Access Start Module must be reset:

- Turn ignition switch to left most position.
- Let ignition switch return to zero position (at rest when key is in ignition switch).
- Turn ignition switch to the right position to start the engine.

With vehicle idling:

- Fully open both front windows.
- Fully close both front windows.

Electronic front seat (if equipped) “Soft stop function”

With vehicle idling:

- Hold seat “forward/backward” switch in forward position until front seat moves fully forward and seat stops.
- Release switch.



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- Hold seat "forward/backward" switch in forward position to ensure front seat is in fully forward position.
- Release switch.
- ◆ Forward soft stop position is learned.
- Hold seat "forward/backward" switch in backward position until front seat moves fully backward and seat stops.
- Release switch.
- Hold seat "forward/backward" switch in backward position to ensure front seat is in fully backward position.
- Release switch.
- ◆ Backward soft stop position is learned.
- Repeat steps for other front seat.

Electronic steering column (if equipped)

With vehicle idling:

- Operate steering column adjustment switch in each direction (up, down, forward and backward) until steering column stops in that direction.

Steering angle sensor & Air suspension

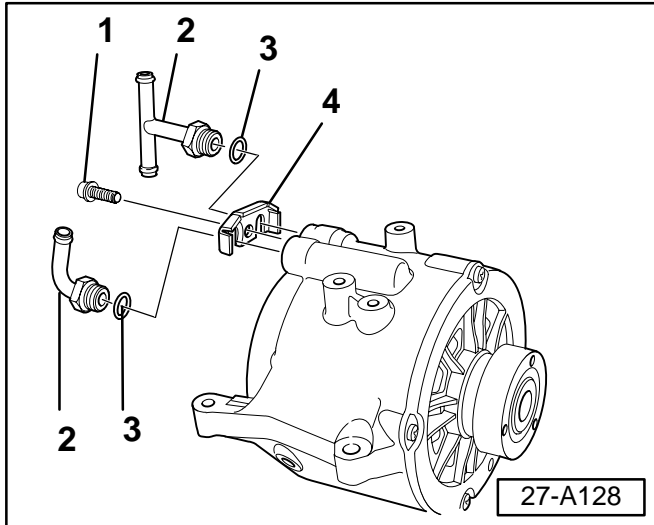
- ◆ Steering angle sensor will temporarily lose calibration (light will illuminate) and must relearn its position.
- ◆ Air suspension will temporarily lose communication with the steering wheel angle sensor (light will illuminate).
- Drive vehicle forward with wheels in the straight ahead position for approx. 45 ft. (13.7 meters).



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Touareg V10 O-ring Replacement Procedure

- ◆ Applicable Model Years: 2004 and 2005
- Replace O-rings only.



Tip:

- ◀ Applicable part numbers of O-rings -3- which insert into generator: N 907 834 01. This part number is for both inlet and outlet coolant pipes.

Removal

- Disconnect both batteries, see Repair Manual, *Electrical Equipment* Group 27-Battery, Starter, Generator, Cruise control, “Battery, removing and installing”.
- Remove engine trim panels (if applicable).
- Remove engine trim cover (if applicable).
- Remove fastener securing oil fill tube to oil filter housing.
- Unclip wiring harness from intake manifold and position aside.
- Remove fasteners securing oil filter housing, and remove housing.
- Clamp off coolant hoses for generator.
- Remove coolant line retaining bracket at the back of the generator, remove retaining bracket, and remove coolant hoses from generator.
- Remove O-rings from coolant tubes, and discard.

Installation

- Lubricate replacement O-rings -3- with silicone lubricant spray, VW Part Number: D 007 000 A2 , install O-rings on coolant pipes.



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- Insert coolant pipes into generator, secure with retaining bracket and tighten fastener to torque to 9 Nm (80 in. lbs.).
- Unclamp coolant hoses to generator.
- Replace O-ring on oil filter housing. Install oil filter housing and tighten fasteners to 10 N.m (88.5 in. lbs.).
- Secure engine wiring harness to intake manifold.
- Secure oil fill tube to oil filter housing and tighten fastener to 10 N.m (88.5 in. lbs.).
- Fill cooling system to proper level, see Repair Manual, *Engine*, Group 19-Cooling system, Engine coolant, draining and refilling.
- Connect both batteries, see Repair Manual, *Electrical Equipment* Group 27-Battery, Starter, Generator, Cruise control, “Battery, removing and installing”.
- Install engine cover and trim panels (if applicable).
- Clear all DTCs using VAS 5051/5052.
- Perform Post Procedure Component Reset/Relearn as follows:

Post procedure component reset / relearn

Access Start Module

Before starting vehicle, Access Start Module must be reset:

- Turn ignition switch to left most position.
- Let ignition switch return to zero position (at rest when key is in ignition switch).
- Turn ignition switch to the right position to start the engine.

With vehicle idling:

- Fully open both front windows.
- Fully close both front windows.



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Electronic front seat (if equipped) “Soft stop function”

With vehicle idling:

- Hold seat “forward/backward” switch in forward position until front seat moves fully forward and seat stops.
- Release switch.
- Hold seat “forward/backward” switch in forward position to ensure front seat is in fully forward position.
- Release switch.
- ◆ Forward soft stop position is learned.
- Hold seat “forward/backward” switch in backward position until front seat moves fully backward and seat stops.
- Release switch.
- Hold seat “forward/backward” switch in backward position to ensure front seat is in fully backward position.
- Release switch.
- ◆ Backward soft stop position is learned.
- Repeat steps for other front seat.

Electronic steering column (if equipped)

With vehicle idling:

- Operate steering column adjustment switch in each direction (up, down, forward and backward) until steering column stops in that direction.

Steering angle sensor & Air suspension

- ◆ Steering angle sensor will temporarily lose calibration (light will illuminate) and must relearn its position.
- ◆ Air suspension will temporarily lose communication with the steering wheel angle sensor (light will illuminate).

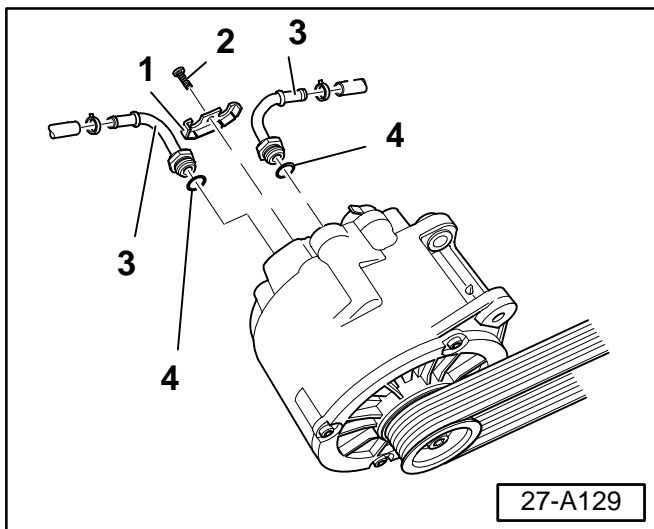


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- Drive vehicle forward with wheels in the straight ahead position for approx. 45 ft. (13.7 meters).
- Pressure test cooling system to verify no leaks at generator coolant tubes, see Repair Manual, *Engine*, Group 19-Engine Cooling system, checking for proper seal.
- Install engine trim cover.
- Install engine trim panels.



Phaeton W12 O-ring Replacement Procedure



Tip:

◀ Applicable part numbers of O-rings -4- which insert into generator: N 907 834 01. This part number is for both inlet and outlet coolant pipes.

◆ Applicable Model Years: 2004 and 2005

Removal

- Disconnect batteries, see Repair Manual, *Electrical Equipment* Group 27-Battery, Starter, Generator, Cruise control, "Battery, removing and installing".
- Drain coolant, see Repair Manual, *Engine*, Group 19-Cooling system, Engine coolant, draining and refilling.
- Remove engine trim cover from right side, if applicable.
- Remove right front wheel.
- Remove right front wheel well liner, see Repair Manual, *Body Exterior*, Group 66-Exterior equipment, Front wheel housing liner, assembly overview.
- Remove front bumper cover, see Repair Manual, *Body Exterior* Group, 63-Bumper, Front Bumper cover, removing and installing.
- Remove windshield washer solvent reservoir.



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- Remove the fasteners mounting the auxiliary radiator (if equipped) and position aside. **DO NOT** disconnect radiator from vehicle.
- Remove fasteners securing engine oil cooler bracket to body/frame and position aside. **DO NOT** disconnect cooler from vehicle.
- Remove coolant pipe to generator bracket.
- Remove outlet coolant pipe from generator, **DO NOT** disconnect other end of pipe from cooling system.
- Remove inlet coolant pipe from generator, **DO NOT** disconnect other end of pipe from cooling system.

Installation

- Lubricate replacement O-rings -4- with silicone lubricant spray, VW Part Number: D 007 000 A2 , install O-rings on coolant pipes.
- Insert coolant pipes into generator, secure with retaining bracket and tighten fastener to 9 Nm (80 in. lbs.).
- Position oil cooler and install fasteners securing engine oil cooler bracket to body/frame and tighten to 9 N.m (80 in. lbs.).
- Position auxiliary radiator and install fasteners. Tighten fasteners to 20 N.m (177 in. lbs.).
- Install windshield washer solvent reservoir.
- Install front bumper cover, see Repair Manual, *Body Exterior* Group, 63-Bumper, Front Bumper cover, removing and installing.
- Install right front wheel well liner, see Repair Manual, *Body Exterior*, Group 66-Exterior equipment, Front wheel housing liner, assembly overview.



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- Install right front wheel.
- Fill cooling system to proper level, see Repair Manual, *Engine*, Group 19-Cooling system, Engine coolant, draining and refilling.
- Connect both batteries, see Repair Manual, *Electrical Equipment* Group 27-Battery, Starter, Generator, Cruise control, "Battery, removing and installing".
- Clear all DTCs using VAS 5051/5052.
- Pressure test cooling system to verify no leaks at generator coolant tubes, see Repair Manual, *Engine*, Group 19-Engine Cooling system, checking for proper seal.

When procedure applies to vehicles within the New Vehicle Limited Warranty, use the following:

Claim Type:	W2
Part Identifier:	2722
Damage Code:	2722 50 000 1
Labor Operation: Phaeton W12	27225502 215 TU
Labor Operation: Touareg V8	27225502 205 TU
Labor Operation: Touareg V10	27225504 110 TU
Diagnostic Time:	No Diagnostic Time Allowed

Claim Comment: Input "As Per Technical Bulletin V270505" into Comment Section of Warranty Claim.