



Important!

Please give copies to all your VW Technicians

Technical Bulletin

Subject: Oil Leaks From Upper Engine Areas, Diagnosis Guidelines

Group: 15

Number: 05-01

Model(s): All Models with Engines Listed in Table Below

1998 ► 2006

Date: Nov. 2, 2005

Condition

Misdiagnosis of oil leaks from upper engine areas may result in unnecessary replacement of camshaft adjusters and/or camshaft adjuster gaskets.

Models Affected:

Engine	Engine Code
1.8T	APH, AWV, AWP
	BKF, BNU, AWD
	AWW, AEB, AUG, ATW, AWM
2.8 V6	AHA, ATQ
4.2 V8	AXQ, BHX, BGH, BGJ

◆ *Use the following table to categorize oil leaks and properly determine their root cause.*



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Service

- Visually inspect area of suspected oil leak.
- Classify suspected oil leak (Category 1, 2, or 3) according to the "Categorization of Leaks" table (see excerpt below) included in Warranty Service Circular VWA-05-31 dated Nov. 2, 2005.

Categorization of Leaks	
	The component (such as the oil pan or valve cover) and immediately adjacent component it is mounted to...
Category 1	...may be wet with fluid residue, however there is no droplet formation and no other components are affected.
Category 2	...is wet with fluid residue, and there is droplet formation or slight seepage, however droplets are not dropping off.
Category 3	...is wet with fluid residue, there is droplet formation, and those droplets are dropping off

A - If suspected oil leak is classified as category 1 or category 2 **WITH** a customer complaint:

- Clean oil stained area.

Explain to customer that oil residue on engine (suspected oil leaks classified as category 1 or 2) may be the result of spilling during engine oil top-off or normal gaskets "sweating" and this is not an indication of technical malfunction.

B - If suspected oil leak is classified as category 1 or category 2 **WITHOUT** a customer complaint:

- No repair necessary.

Oil residue on engine (suspected oil leaks classified as category 1 or category 2) may be the result of spilling during engine oil top-off or normal gaskets "sweating" and is not an indication of a technical malfunction.



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C - If suspected engine oil leak is classified as category 3 only WITH a customer complaint:

- Start diagnostic procedure by replacing cylinder head cover gasket(s) only on cylinder bank(s) where suspected oil leak of category 3 is identified.
- Add oil dye to engine oil.
- Clean oil stained area(s).
- Perform test drive.
- Following test drive, inspect engine to verify oil leak is eliminated.



Tip:

When installing cylinder head cover gasket(s) always apply sealant in critical areas as further described in the Technical Bulletin.

If, after a test drive, the engine is still leaking:

- Locate source of oil leak.
- **If oil leak is traced to camshaft adjuster or camshaft adjuster gaskets, service manager authorization is required before any other repair is performed.**
- If oil leak is traced to any component other than camshaft adjuster or camshaft adjuster gasket, perform repairs as necessary.
- If cylinder head cover must be removed again **WHILE** performing this Technical Bulletin, same cylinder head cover gasket **can be reinstalled.**



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Tip:

When installing cylinder head cover gasket(s) always apply sealant in critical areas as further described in the Technical Bulletin.

D - If suspected oil leak is classified as category 3 only **WITHOUT** a customer complaint (add-on repair):

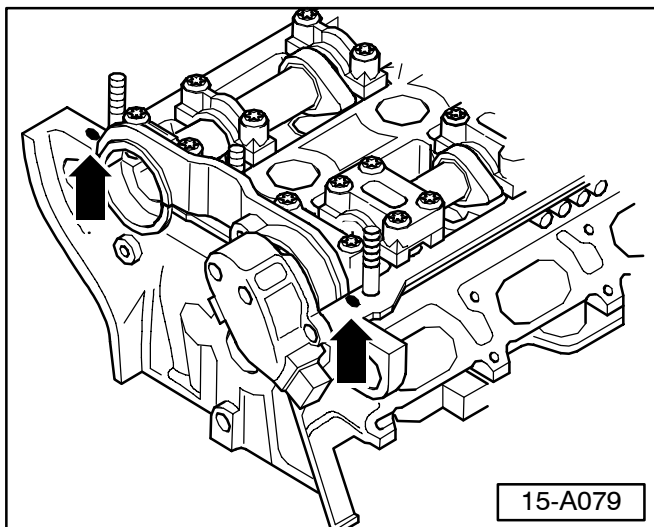
- **You must follow the procedure for add-on repairs as described in Warranty Policies and Procedures Manual.**
- Then proceed with repairs as described in Step C (see page 3).

Cylinder Head Cover Gasket, Installing Sealant at Critical Points

- Before installing cylinder head cover gasket(s), apply a small amount of sealant on six critical transition points of the sealing surface on cylinder head.

Before new sealant is applied:

- Thoroughly clean old sealant and oil residue from the cylinder head, **sealing surface MUST be clean and dry.**



Sealing Transition Points Between Double Bearing Cap(s) and Cylinder Head (2 points)

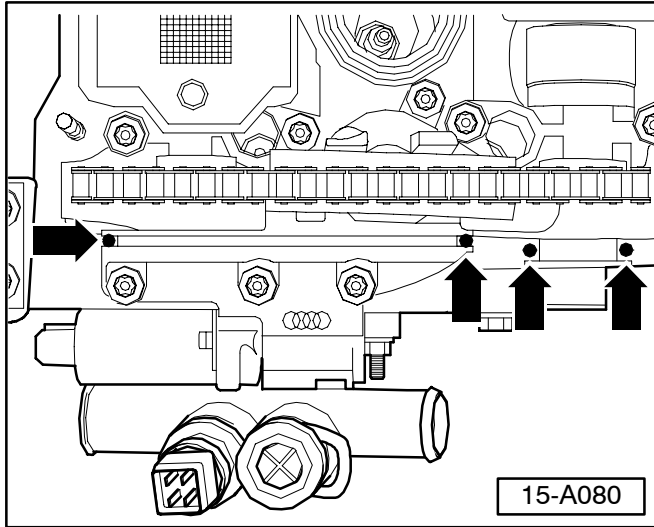
- Apply a small quantity of sealant Part No: AMV 174 004 01 to sides of joints (arrows) on upper sealing surface of cylinder head.



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Sealing Camshaft Adjuster/Cylinder Head Transition (4 points):

- Apply a small quantity of sealant Part No: AMV 174 004 01 to sides of joints (arrows) on upper sealing surface of cylinder head.



Tip:

- ◆ Apply sealant prior to installing gaskets.
- ◆ Sealant is considered shop supplies and may not be claimed under warranty. Also, additional time to add sealant is not claimable under warranty.
- ◆ Always refer to the Repair Manual and published Technical Bulletins for latest repair information.
- ◆ In cases where parts are replaced, perform test drive to verify oil leak is eliminated.
- ◆ If oil leak is traced to cylinder head cover gasket you must file the claim under PID 1580.

Warranty:

For warranty information and procedures regarding this technical bulletin, please follow indications included in the Warranty Service Circular “Oil Leaks From Upper Engine Area”, VWA-05-31 dated Nov. 2, 2005.