



Technical Service Bulletin

42 Rear axle shaft leaks at differential - S4 and S5 with Quattro Sports rear differential (PR – PDU, PDR, or GH2)

42 12 11 2026049/4 July 5, 2012. Supersedes Technical Service Bulletin Group 42 number 11 – 09 dated October 25, 2011 for reasons listed below.

| Model(s) | Year | VIN Range | Vehicle-Specific Equipment |
|--------------|------|-------------------|----------------------------|
| S4 | 2010 | 000001 – 999999 | With Sports Differential |
| S4 | 2011 | N000001 – N056561 | |
| S4 | 2011 | A000001 – A172728 | |
| S5 | 2010 | 000001 – 999999 | |
| S5 Cabriolet | 2011 | N000001 – N021300 | |
| S5 | 2011 | A000001 – A903931 | |

Condition

| REVISION HISTORY | | |
|------------------|------------|--|
| Revision | Date | Purpose |
| 4 | - | Revised header data (Added VIN breaks) Revised <i>Service</i> (Added repair instructions) |
| 3 | 10/25/2011 | Revised header data |
| 2 | 10/5/2011 | Revised header data (Added VIN breaks) |
| 1 | 4/15/2011 | Original publication |

Oil leak in the area of the Quattro sports rear differential (PR-PDU, PDR, or GH2) side flange, or axle shaft inboard flange.

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Technical Background

The following table lists PR codes that identify vehicles with a rear sports differential.

| PR code | Description | Notes |
|---------|---|---|
| PDR | Audi drive select with rear sports differential | This PR code must be accompanied with PR GH2 (rear sports differential). |
| PDU | Rear sport differential | Standalone option May be accompanied with PR GH2 Comes with Audi drive select control panel even if vehicle does not have Audi drive select functions |
| GH2 | Rear sport differential | Standalone option May be accompanied with PR PDU Comes with Audi drive select control panel even if vehicle does not have Audi drive select functions |

Insufficient sealant on the protective cap on the inboard constant velocity joint at the rear differential on vehicles with a sports differential.
The oil is from the constant velocity joint grease. This is a normal characteristic and does not affect the function of the driveshaft.

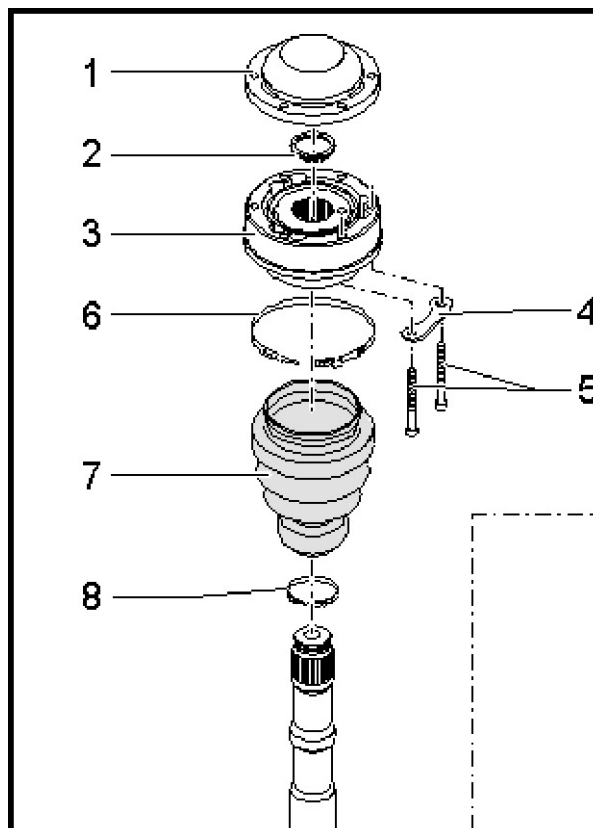


Figure 1. Structure of drive shaft on differential side.
(1= protective cap) (3 = inner constant velocity joint)

Production Solution

Optimized use of sealer in production from 05/19/2011.

Service

1. Inspect the rear inner CV joints where they connect to the read sports differential:
Oil sweating or residue – do not make any repairs.
Clear oil drips – proceed to step 2.
2. Check the source of the fluid:
Grease used in the drive shaft CV joints is almost odorless. If the fluid does not have any odor, proceed to step 3.
Differential fluid has a pungent smell. If the fluid has a pungent smell, this TSB does not apply.
3. Per instructions in *ELSA Web >>> Chassis >>> Suspension, Wheel, Steering >>> Rear Suspension >>> Disassembly and Assembly >>> Inner CV Joint*, use great care removing the protective cap.
If the cap is undamaged after removal, it can be reused.
If the protective cap is damaged during removal, a new cap must be installed.
4. Be sure the sealing surfaces are clean and dry.
Apply the sealer (Part Number **D 454300A2**) with a diameter of **4 - 5 mm** on the protective cap.

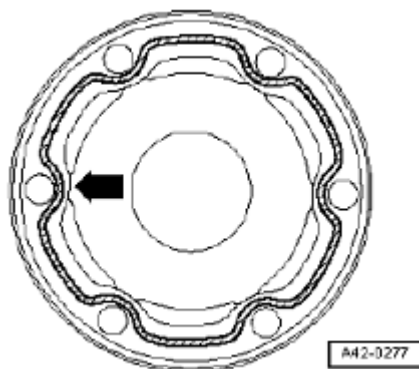


Figure 2.Protective cap with sealer.

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Warranty

| | | | |
|--------------------------|--|--------------|--------|
| Claim Type: | Use applicable claim type. If vehicle is outside any warranty, this Technical Service Bulletin is informational only. | | |
| Service Number: | 4229 | | |
| Damage Code: | 0050 | | |
| Labor Operations: | Remove and install final drive for sports differential | 3988 1903 | 370 TU |
| | Remove and install final drive for sports differential – S5 Cabriolet | 3988 1903 | 420 TU |
| | Remove and install drive shaft | 4221 1950 | 70 TU |
| | Remove and install 2 drive shafts | 4221 2050 | 130 TU |
| | Remove and install constant velocity joint cap | 4224 1999 | 10 TU |
| | Remove and install 2 constant velocity joint caps | 4224 2099 | 20 TU |
| Diagnostic Time: | GFF – Checking and clearing fault codes included in existing labor operations | No allowance | 0 TU |
| | Road test prior to service procedure | No allowance | 0 TU |
| | Road test after service procedure | 0121 0004 | 10 TU |
| | Technical diagnosis at dealer's discretion (Refer to Section 2.2.1.2 and Audi Warranty Online for DADP allowance details) | | |
| Claim Comment: | As per TSB #2026049/4 | | |

All warranty claims submitted for payment must be in accordance with the *Audi Warranty Policies and Procedures Manual*. Claims are subject to review or audit by Audi Warranty.

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Required Parts and Tools

| Part Number | Part Description | Quantity |
|-------------|------------------|----------|
| D 454300A2 | Sealer | 1 |
| 4F0501269 | Protective Cap | 1 or 2 |

Additional Information

All parts and service references provided in this TSB are subject to change and/or removal. Always check with your Parts Department and service manuals for the latest information.