

# 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 13 2026049/6 September 5, 2012. Supersedes Technical Service Bulletin Group 42 number 12 – 12 dated August 1, 2012 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
S4	2010	All	With Sports Rear Differential
	2011	All	
	2012	Up to production date 7/10/2011	
S5	2010	All	
	2011	All	
	2012	Up to production date 7/10/2011	
S5 Cabriolet	2010	All	
	2011	All	
	2012	Up to production date 7/10/2011	

## Condition

REVISION HISTORY		
Revision	Date	Purpose
6	-	Revised header data (Changed VIN breaks and Production Dates)
5	8/1/2012	Revised header data (Changed VIN breaks and Production Dates) Revised <i>Service</i> (Changed repair instructions)
4	7/5/2012	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.

## 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 vehicle with a sports differential.

Optimized use of sealer in production from 07/10/2011.

## Production Solution

Not applicable.

## Service

1. Inspect the rear inner CV joints where they connect to the rear sports differential:
  - Oil sweating or residue – do not make any repairs.
  - Clear oil drips – proceed to step 2.
2. Determine 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.

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- Replace the effected drive shaft per instructions in ELSA Web: *Chassis >>> Suspension, Wheel, Steering >>> Rear Suspension >>> Removal and Installation.*



**Tip:** It is not necessary to replace both drive shafts if only one drive shaft is affected by this condition.

## Warranty

<b>Claim Type:</b>	Use applicable claim type. If vehicle is outside any warranty, this Technical Service Bulletin is informational only.		
<b>Service Number:</b>	4221		
<b>Damage Code:</b>	0010		
<b>Labor Operations:</b>	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
<b>Diagnostic Time:</b>	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)		
<b>Claim Comment:</b>	As per TSB #2026049/6		

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.

## Required Parts and Tools

Part Number	Part Description	Quantity
8K0501203L	Drive shaft with constant velocity joints	1
8K0501204L	Drive shaft with constant velocity joints	1

## 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.