

Technical Service Bulletin



35 Leaks from transmission

35 15 18 2028085/5 September 18, 2015. Supersedes Technical Service Bulletin Group 35 number 13-12 dated June 18, 2013 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
S4, S5, S5 Cabriolet, RS5, S6, S7	2010 - 2016	All	0B5 S-Tronic transmission

Condition

REVISION HISTORY		
Revision	Date	Purpose
5	-	Revised header data (Added models and model years)
4	6/18/2013	Revised header data (Updated customer codes)
3	4/1/2013	Revised <i>Service</i> (Added illustration, clarified steps) Revised header data (Added models and model years) Revised <i>Warranty</i> (Removed incorrect information)

Customer may report that there is oil leaking under the vehicle.

Technical Background

There are a number of possible sources for the leak, including:

- Leaking from the oil pan seal (Figure 1).

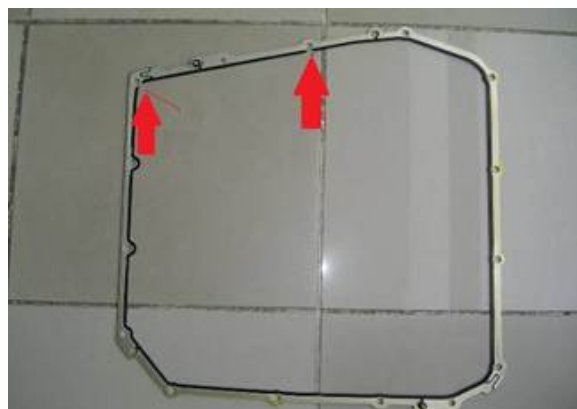


Figure 1. Leak on the oil pan seal (red arrows).

- Crack in the oil pan (Figure 2).



Figure 2. Crack in the oil pan.

- Leak between gearbox housing and intermediate housing (Figure 3).



Tip: The source of the leak may be confused with o-ring of drain plug.



Figure 3. Leak between gearbox housing and intermediate housing.

Production Solution

Not applicable.

Service

1. Locate the leak by first thoroughly cleaning and drying the stained area. Then, apply talcum spray (or similar) to the area that was stained with oil (Figure 4).



Figure 4. Leak located with talcum spray.

2. Warm up the vehicle with a test drive then re-check for leaks.
3. If the leak is around the oil pan, remove the oil pan and check the gasket for imperfections or damage:
 - If the oil pan is undamaged, replace only the oil pan seal.
 - If the oil pan is damaged (Figure 5), check the mechatronics for loose bolts (Figure 6). Replace any loose bolts and torque according to the repair manual instructions. Replace both the oil pan and seal.
 - If pan is cracked (Figure 2, above) and no loose bolts on the mechatronics unit are found, replace oil pan and seal.
 - If there is a leak between gearbox housing and intermediate housing (Figure 3, above), reseal the case by following instructions in *Elsa >> Repair manual >> Transmission >> S Tronic Transmission Internal Components >> 35 Gears, Shafts >> Removal and Installation >> Sensor Module with Transmission Input Speed Sensor - G612-, -G632-, -G676- and Circuit Board 3.*



Note: These instructions require transmission case disassembly. Audi Academy course #950224 and assessment #950224B must be completed before the repair is attempted or the warranty claim may be denied. The course and assessment can be found on the Audi Academy CRC site.



Figure 5. Damaged oil sump because of loose bolts.



Tip: Use caution when lifting or lowering intermediate housing to avoid damage to components (Figure 7).

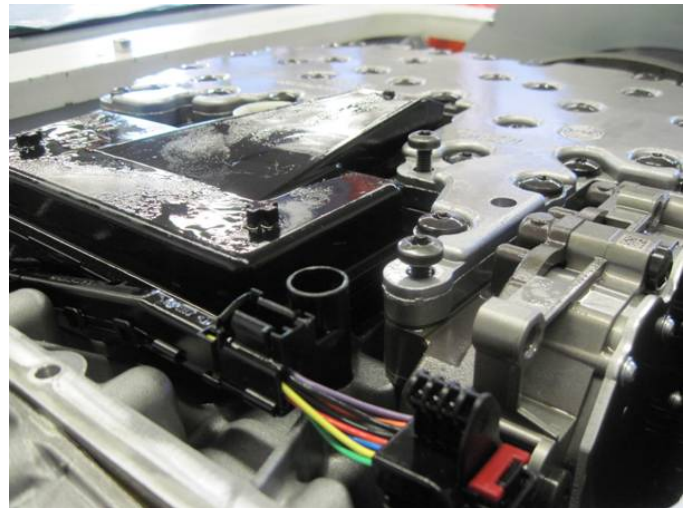


Figure 6. Loose bolts in the mechatronics.

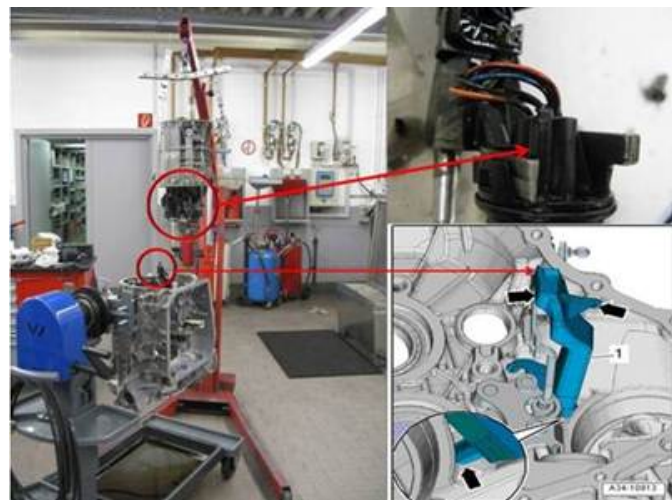


Figure 7. Caution points: drip tray Sensor module connector.

4. Assemble according to the repair manual and check/correct the oil level.

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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:	3435		
Damage Code:	0050		
Labor Operations:	For leaking around pan:		
	Inspect pan and gasket	3460 1999	10 TU
	For faulty pan gasket (no pan damage):		
	Mechatronics cover remove+reinstall	3460 1900	160 TU
	For pan damage:		
	Inspect mechatronics bolts (replace and re-torque if needed)	3511 1999	30 TU
	Mechatronics cover remove+reinstall	3460 1900	160 TU
	For leaking case:		
	Transmission remove+reinstall	3435 19xx	See Elsa
Sensor module f trans remove+reinstall	3512 1950	570 TU	
Diagnostic Time:	Clean off oil and determine leak origin (includes one test drive)	3435 9999	90 TU
	GFF to perform basic setting and adaptation (after sensor replacement only)	0150 0000	Time stated on diagnostic protocol (Max 100 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 2028085/5		

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
0B5321361C	Transmission pan (only if cracked/damaged)	1
0B5321371E	Gasket for transmission pan	1
N 10405702	Bolts for mechatronics unit	6
G052529A2	Dual clutch gearbox oil (ATF)	Up to 7.5 Liters

Additional parts needed for case leak reseal:

Part Number	Part Description	Quantity
G052513A2	Final drive oil (MTF)	5.0 Liters
0B5927321F	Module	1
0B5321391A	Harness	1
AMV18800102	Sealing paste	1
0B5301515H	Pump with seals	1
WHT001955	Bolt	1
WHT002459	Bolt	28
WHT001958B	Bolt	2
0B5301227C	Seal kit	1
0B5323525B	O-ring	1
0B5311113F	Seal	1
0B5315105TC	Oil pipe with seals	1
0B5315105TA	Oil pipe with seals	1
0B5325571	Sleeve with seals	1
0B5311944B	Seal	4
0B5321473	Oil pipe	1
WHT003380	Seal	1
WHT003379	Seal	1
0B5301311E	Oil drip tray (Replace if broken)	1

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Additional Information

All parts and service references provided in this TSB (2028085) are subject to change and/or removal. Always check with your Parts Department and service manuals for the latest information.