Technical Service Bulletin

35 Gearbox malfunction message in cluster (DTCs P17D800, P179D00, P174000, P174C, P174B, P174F, P179C, P174A, P174E)

35 16 20 2030477/7 February 1, 2016. Supersedes Technical Service Bulletin Group 35 number 13-15 dated November 4, 2013 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
S4, S5	2010 - 2013	All	S-Tronic 7 speed transmission
RS 5	2013	All	S-Tronic 7 speed transmission
S6, S7	2013	All	S-Tronic 7 speed transmission

Condition

REVISION HISTORY		
Revision	**Date**	**Purpose**
7	-	Revised *Required Parts and Tools* (Added ATF)
6	11/4/2013	Revised *Required Parts and Tools* (Added VIN-specific parts) Revised *Service* (Added DTC P174C information)
5	8/30/2013	Revised *Condition* (Removed “Expanded environmental conditions” criteria, added “Symptom Code” criteria) Revised *Service* (Removed “Expanded environmental conditions” instructions, added “Symptom Code” instructions)

- The following message appears in the information display: “Gearbox malfunction: you can continue driving”.
- One or more of the following fault entries are stored in the transmission control module, J217 (address word 02):
  - **DTC P17D8** (Torque limitation because of clutch temperature) with symptom code **8040**
  - **DTC P0726** (RPM signal of engine control unit, implausible signal) with symptom code **7980**
  - **DTC P174B** (Valve 4 in the sub-gearbox 1, electric fault) with symptom code **8027**
  - **DTC P174F** (Valve 4 in the sub-gearbox 2, electric fault) with symptom code **8028**
  - **DTC P179C** (Main pressure valve, electric fault) with symptom code **8029**
  - **DTC P179D** (Coolant oil valve electrical fault) with symptom code **8030**
  - **DTC P174C** (Partial transmission 1 valve 2 Electrical error) with symptom code **8026**
  - **DTC P174A** (Valve 3 in the sub-gearbox 1, electric fault) with symptom code **8939**
  - **DTC P174E** (Valve 3 in the sub-gearbox 2, electric fault) with symptom code **8940**
  - **DTC P1740** (Clutch temperature monitoring) with symptom code **8031**

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Tip: Fault codes and symptom codes must match *exactly* or this TSB should not be followed. Instructions for obtaining the symptom codes are in the *Service* section of this bulletin.

Technical Background

Poor internal contact area on circuit board will lead to faults. Oil additives can cause the plastic circuit plates to delaminate, causing contact loss.

Production Solution

Improved circuit board for mechatronics unit.

Service

Confirm that this TSB applies by checking the symptom code:

1. Check the DTC memory. The symptom code is listed with the DTC (Figure 1).

Address: 02 System name: 02 - Transmission Electronics (0B5 S tronic) Protocol versions: UDS

ASAM base version:	BV_TransContrModulUDS
ASAM control module version:	EV_TCMDL501_A02
Hardware part number:	0B5927156E
Software part number:	8K1927156C
Hardware version number:	H03
Software version number:	0002
Build group number:	
Code:	000001
Ability to flash:	Unknown
System name:	0B5 30TFSINAR
ASAM 2D/ODX data set:	EV_TCMDL501
ASAM 2D/ODX data set version:	A02044
ASAM/ODX control module version being used:	EV_TCMDL501_A02
Equipment code:	00 00 00 00 00 00 00 00
System abbreviation:	J217

DTC memory entry

Number:	P17D800 (P17D800): Torque limitation due to clutch temperature
Error type 2:	passive/sporadic
Symptom:	8040
Status:	00101000

Figure 1. *DTC memory with symptom code.*

2. If the DTC is listed in the *Condition* section of this bulletin, *and* it has the corresponding symptom code from the list, perform the repair that follows.

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If the TSB applies, perform the following repair:

1. Remove the mechatronics unit per instructions in Elsa: *Repair Manual >> Transmission >> S-Tronic Transmission >> 35 Gears, Shafts >> Removal and Installation >> DSG Transmission Mechatronic J743.*
2. Replace the circuit board per instructions in Elsa: *Repair Manual >> Transmission >>S-Tronic Transmission Internal Components >> 35 Gears, Shafts >> Removal and Installation >> DSG Transmission Mechatronic J743 Circuit Boards.*
3. Reinstall the mechatronics unit per instructions in Elsa: *Repair Manual >> Transmission >> S-Tronic Transmission >> 35 Gears, Shafts >> Removal and Installation >> DSG Transmission Mechatronic J743.*

Note:

Be sure to follow all cautions and warnings noted in the Elsa Repair Manual.

Tip: If the connector locks are damaged when the circuit board is replaced, the mechatronics unit must be replaced. Once connected, the circuit board cannot be removed and used again.

Warranty

Claim Type:	Use applicable claim type. If vehicle is outside any warranty, this Technical Service Bulletin is informational only.		
Service Number:	3511		
Damage Code:	0040		
Labor Operations:	Remove and install mechatronics	3511 1900	250 TU
	Remove and install printed circuit	3511 3799	40 TU
Diagnostic Time:	GFF to perform adaptation procedure.	0150 0000	Time stated on diagnostic protocol (Max 40 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 #2030477/7		

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

Note:

The Circuit Board (Repair Kit) is VIN-specific and must be ordered to the VIN of the vehicle.

Part Number	Part Description	Quantity
0B5398009C **or** 0B5398009D	Repair Kit: Printed circuit foil for valve body	1
0B5315105TA	Oil pipe with seal	1
0B5321371E	Pan Gasket	1
G 052529A2	ATF	7

Additional Information

All parts and service references provided in this TSB (2030477) are subject to change and/or removal. Always check with your Parts Department and service manuals for the latest information.

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