

# Technical Service Bulletin



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

35 16 21 2030477/8 April 18, 2016. Supersedes Technical Service Bulletin Group 35 number 16-20 dated February 1, 2016 for reasons listed below.

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

## Condition

REVISION HISTORY		
Revision	Date	Purpose
8	-	Revised <i>Required Parts and Tools</i> (Added oil pipe, O-ring and drain plug seal)
7	2/1/2016	Revised <i>Required Parts and Tools</i> (Added ATF)
6	11/4/2013	Revised <i>Required Parts and Tools</i> (Added VIN-specific parts) Revised <i>Service</i> (Added DTC P174C information)

- 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**



**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.

**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.*

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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

<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>	3511		
<b>Damage Code:</b>	0040		
<b>Labor Operations:</b>	Remove and install mechatronics	3511 1900	250 TU
	Remove and install printed circuit	3511 3799	40 TU
<b>Diagnostic Time:</b>	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)		
<b>Claim Comment:</b>	As per TSB #2030477/8		

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

**Note:**

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

Part Number	Part Description	Quantity
0B5398009D	Repair kit: Printed circuit foil for valve body	1
0B5315105TA	Oil pipe with seal	1
0B5321371E	Pan gasket	1
0B5321473	Oil pipe	1
WHT003379	O-ring	1
N 0138275	Drain plug seal	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.