

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

| | | | |
|--------------------------|--|--------------|--|
| 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 #2030477/8 | | |

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.