

# Technical Service Bulletin



## 37 Gearbox in limp mode operation (DTC P0750 or P1742)

37 15 61 2020488/4 October 1, 2015. Supersedes Technical Service Bulletin Group 37 number 10-12 dated October 12, 2010 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A4	2009 - 2010	All	0AW Multitronic Gearbox
A5 Cabriolet	2010	All	0AW Multitronic Gearbox

## Condition

REVISION HISTORY		
Revision	Date	Purpose
4	-	Revised <i>Service</i> (Updated SVM code) Revised <i>Warranty</i> (Added labor operations) Revised entire bulletin for clarity
3	10/12/2010	Revised header data (Added model and MY) Revised <i>Service</i> (SVM table)
2	9/29/2009	Revised <i>Service</i> (SVM table, steps 3-4)

- A transmission warning is illuminated in the information display.
- Transmission is in limp home mode or the vehicle delays and shudders when driven from a stop.
- One of the following DTCs is stored in the transmission control module (TCM), J217 (address word 02):
  - **DTC P0750** (Shift solenoid A malfunction)
  - **DTC P1742** (Clutch torque adaptation, adaptation limit reached)

## Technical Background

TCM software error.

## Production Solution

Improved software version introduced.

## Service

1. Update the software using the *SVM Update Instructions* below.
  - If adaptation is not possible in Guided Fault Finding (GFF) due to a missing engine speed error, see the *0AW Self-Diagnosis Clutch Adaptation Instructions* below.
  - If the software is already at the newer version or higher, contact TAC.
2. After the SVM update, the forward and reverse clutches must be adapted. To reset the programmed values of the clutches:
  1. In Guided Functions, select *Transmission Electronics >> Adjustment*.
  2. The following question appears: "Have you replaced the control unit for the automatic gearbox?" Select **Yes**.
  3. Now the entry can be deleted and the adaptation of the clutches can be carried out.
3. Attempt the GFF clutch adaptation test plan. If the test plan fails to adapt the clutches, perform the *0AW Self-Diagnosis Clutch Adaptation Instructions* below.

### SVM Update Instructions

1. Follow all instructions in TSB 2011732: *00 Software Version Management (SVM), operating instructions*.
2. Update the transmission control unit (J217) and the engine control unit using the SVM action code as listed in the table below if necessary.

Model	Engine and Transmission	Old Software Part Number	Old Software Version (or lower)	New Software Part Number	New Software Version (or higher)	SVM Code Input
A4	2.0TFSI / 0AW	8K0927155AD	0002	8K0927155AD	0004	B802A005
A4, A5 Cab	2.0TFSI / 0AW	8K1927155J	0001	8K1927155J	0003	B802A005

### 0AW Self-Diagnosis Clutch Adaptation Instructions

1. Select the following measured values in the self-diagnosis (and save as Favorites, if desired):
  - Adaptation of the forwards start-up behavior [LO] state
  - Adaptation of the backwards start-up behavior [LO] state
  - Transmission fluid temperature
  - Specified clutch torque
2. In order to creep adaptation of the forward and reverse clutch with 0AW gearboxes, make sure that there are

no fault entries in the TCM.

3. Warm up the gearbox to approximately 85°C by pulling away in driving mode D and R at various loads of max 1500 rpm.



**Tip:** Currently the adaptation is only possible when the measured value transmission temperature is between 80° - 95°C.

4. When the vehicle is standing still, select driving mode D.
5. Pull away with little acceleration to a speed of about 6 mph (10 km/h). Slowly press the brake pedal, and hold the brake pedal for 5-10 seconds as the vehicle stands still.

When the vehicle is being stopped, the specified clutch torque must not drop below 20 Nm or the adaptation will fail. If needed, try again with a different driving profile (less load, gentler braking).

Repeat this step until the measured value indicates the adaptations of the forward start-up behavior is successful.

7. When the vehicle is standing still, select driving mode R.
8. Pull away with little acceleration to a speed of about 6 mph (10 km/h). Slowly press the brake pedal, and hold the brake pedal for 5-10 seconds as the vehicle stands still.  
When the vehicle is being stopped, the specified clutch torque must not drop below 20 Nm or the adaptation will fail. If needed, try again with a different driving profile (less load, gentler braking).  
Repeat this step until the measured value indicates the adaptations of the reverse start-up behavior is successful.
9. After a terminal 15 reset, the adaptation starts over again with status running. Keep the ignition switched on for at least six minutes after a successful adaptation. The ignition must not be switched off during this time.

# Technical Service Bulletin



## 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>	3730		
<b>Damage Code:</b>	0039		
<b>Labor Operations:</b>	Clutch adaptation (Only if GFF adaptation does not work)	3735 0599	50 TU
	Update TCM software	3730 9999	50 TU
<b>Diagnostic Time:</b>	GFF (Clutch adaptation)	0150 0000	Time stated on diagnostic protocol (100 TU Max)
	Road test prior to service procedure	0121 0002	10 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 #2020488/4		

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.

## Additional Information

The following Technical Service Bulletin will be necessary to complete this procedure:

- TSB 2011732, *00 Software Version Management (SVM), operating Instructions*.

All part and service references provided in this TSB (2020488) are subject to change and/or removal. Always check with your Parts Dept. and service manuals for the latest information.