

Technical Service Bulletin



37 Transmission shudders on acceleration

37 15 57 2022600/4 May 6, 2015. Supersedes Technical Service Bulletin Group 24 number 12-38 dated August 24, 2012 for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
A4, A6	2009 - 2010	All	2.0 TFSI and OAW gearbox

Condition

REVISION HISTORY		
Revision	Date	Purpose
4	-	Revised <i>Service</i> (Updated SVM table)
3	8/24/2012	Revised <i>Service</i> (Updated SVM table)
2	12/13/2010	Revised <i>Service</i> (SVM table, addition of ECM software 8K2907115N)

- A delay and shudder is felt when vehicle is driven from a stop.
- Shuddering is felt on acceleration from under 15 mph.
- The complaint can be reproduced, but no fault can be found.

Technical Background

Incorrect calibration of the engine control module (ECM), J623 (address word 01) and of the transmission control module (TCM), J217 (address word 02).

Production Solution

Optimized ECM and TCM software.

Service

Check and, if needed, update the ECM software *and* the TCM software via SVM:

1. Follow all instructions in TSB 2011732: *00 Software Version Management (SVM), operating instructions*.
2. Update the ECM (J623) using the SVM action code as listed in the table below, if necessary.

Model	Engine and Transmission	Old ECM Software Part Number	Old ECM Software Version (or lower)	New ECM Software Part Number	New ECM Software Version (or higher)	SVM Action Code
A4/A5	2.0TFSI, 0AW	8K2907115N	0001	8K2907115AA	0005	B801A008
A4/A5	2.0TFSI, 0AW	8K2907115D	0005	8K2907115AA	0005	B801A008
A4/A5	2.0TFSI,0AW	8K2907115AA	0004	8K2907115AA	0005	B801A008

3. Update the TCM (J217) using the SVM action code as listed in the table below, if necessary.

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

4. After updating the ECM and/or the TCM, the programmed values of the clutches must be reset as follows:
 - In Guided Functions, select *Transmission Electronics >> Adjustment*. After this function is started, the following question appears: "Have you replaced the control unit for the automatic gearbox?"
 - Answer. Now the fault entry can be deleted and the adaptation of the clutches can be performed.
5. 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.

0AW Self-Diagnosis Clutch Adaptation Instructions

Select the following measured values in the self-diagnosis (save these values under "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

Creep adaptation of the forward and reverse clutch with 0AW gearboxes:

1. Make sure that there are no fault entries in the TCM.
2. Warm up the gearbox to about 85°C, ideally by pulling away in driving mode D and R at various loads of max. 1500 rpm.



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

3. When the vehicle is standing still, select driving mode D.
4. Pull away with little acceleration to about 6 mph or 10 km/h. Slowly brake the vehicle with the foot brake. Hold the brake pedal for another 5-10 seconds as the vehicle stands still.
5. When stopping, the specified clutch torque must not drop below 20 Nm, otherwise the adaptation fails. If this is the case, change the driving profile (less load, gentler braking).
6. Repeat step 4 until the measured value indicates the adaptation of the forwards start-up behavior is successfully completed.
7. With the vehicle standing still, select driving mode R.
8. Repeat step 4 until the measured value indicates that adaptation of the backwards start-up behavior is successfully completed.
When stopping, the specified clutch torque must not drop below 20 Nm, otherwise the adaptation fails. If this is the case, change the driving profile.
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.



Tip: The ignition must not be switched off during this time period.

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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:	2470		
Damage Code:	0039		
Labor Operations:	Check software level in ECM and TCM (Use if no update is needed)	2470 0199	20 TU
	Update ECM software via SVM	2470 2599	60 TU
	Update TCM software via SVM	3730 2599	60 TU
	Clutch adaptation (Use only if GFF adaptation does not work)	3735 0599	50 TU
Diagnostic Time:	GFF (Clutch adaptation)	0150 0000	Time stated on diagnostic protocol
	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)		
Claim Comment:	As per TSB #2022600/4		

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 parts and service references provided in this TSB (2022600) are subject to change and/or removal. Always check with your Parts Department and service manuals for the latest information.