



Technical Service Bulletin

Bucking when accelerating from a standstill

38 07 02 Jan. 9, 2007, 2011722/3. Supersedes Technical Service Bulletin Group 37 number 06-01 dated Jan. 27, 2006 due to slight content changes.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment	
A6	2002-2005	All	Automatic Multitronic (01J)	3.0L Engine
A4	2002-2005	All		
A4 Cabriolet	2003-2005	All		

Condition

Vehicle shudders when accelerating at 10 to 50% throttle from a stationary position, sometimes with fluctuating engine speed.

Technical Background

Not applicable.

Production Solution

Not applicable.

Service

It is *not* necessary to receive an authorization number from the Technicians Helpline for the repairs described in this bulletin.

Attach VAS printouts to repair order. Warranty requested documents received without VAS printouts will be denied payment.

1. Perform the following steps to confirm that the ATF temperature is a minimum of 65°C:

a. In VAS 5051/5052 Select *Vehicle Self Diagnosis >> 02 - Gearbox electronics >> 08 - Read measuring value block*.

b. Input **MVB 10** on keypad, select **Q** to confirm and observe display position 3.

c. ATF must be minimum of 65°C.

2. With the ATF at minimum of 65°C, carefully operate vehicle in an open space (clear of traffic and obstacles) as follows:

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- a. Accelerate from a stop on a light upgrade with 10 to 30% acceleration displayed in MVB 9, position 1.
 - b. Drive with the hand brake pulled up two notches.
 - c. After a few yards, the shudder should occur shortly before the clutch engages.
 - d. After the clutch engages, the shudder goes away.
- At a constant speed in Tiptronic 4th gear below 2000 RPM, the shudder may occur every 5 seconds due to clutch control.
 - At a constant speed in Tiptronic 3rd gear above 2000 RPM, the shudder should not occur.

3. Stop the vehicle.

- a. Ensure that the transmission gear oil is at a minimum of 65°C (MVB 10 position 3).
- b. Read MVB 12 and calculate the difference between position 1 and position 2. (Make a note of this value.)
- c. Read MVB 10, position 1. (Make a note of this value.)
- d. If MVB 10, position 1 is below 220 mA (2005 and later model years - below 250 mA), the ATF cooling system may be plugged.
- e. Clean the cooling pipes and thoroughly flush out the ATF components.
- f. Replace the external ATF filter. Refer to *Group 37, Automatic Transmission - Controls, Housing* in the *Repair Manual* for complete external ATF filter replacement instructions.

If the condition is resolved, no additional work is required.

If the difference between MVB 12 position 1 and MVB 12 position 2 is below 65 mA, or a negative value, *and* if MVB 10, position 1 is below 300 mA (2005 and later model years - below 350 mA):

- Replace the 6-plate clutch pack with a new 7-plate clutch pack. Refer to *Group 38: Input shaft servicing with 7 lining discs* for complete instructions.
- Parts must be ordered individually. A parts kit is no longer available for the 7-clutch plate application. All necessary parts and tools to complete clutch plate repair are listed in the *Required Parts and Tool* section of this publication.
- If MVB 10, position 1 is above 300 mA (2005 and later model years = 350 mA), replace the transmission.



Note:

Following installation of repaired transmission to vehicle, update transmission control module software. Failure to update software will cause transmission damage.



Note:

Any Update Programming procedure (flash) may overwrite any tuned ECM or TCM programming. A *tuned* ECM

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or TCM is described as any ECM or TCM altered so as to perform outside the normal parameters and specifications approved by Audi of America, Inc.

Current Tuned ECM or TCM Requirements

If you encounter a vehicle with a tuned ECM or TCM, your dealership must do the following before performing any procedure that updates ECM or TCM programming:

- Notify the owner that their ECM or TCM was found to have been tuned.
- Notify the owner that any damage caused by the tuning of the ECM or TCM (including any adverse emissions consequences) will not be covered by Audi of America, Inc. warranties.
- Obtain the owner's written consent (see attached Control Module Tuning form) for any requested repair - under warranty *or* outside warranty - that requires flashing that will automatically overwrite the tuned program.

- Ensure the Control Module Tuning form has been filled out by the owner.  **Note:** Do *not* use a **6017** or **6017A** while flashing. Doing so may result in complete control module failure.

Update: Program the Transmission Control Module (TCM) with flash CD Part No.: **8E0-906-961J**.

- Battery must have a minimum no-load charge of 12.5V.
- Connect vehicle to a powered Audi-approved battery charger/maintainer.
- Turn off the radio and all other accessories.
- Turn off any appliances with high electromagnetic radiation (i.e. mobile phones).
- Use vehicle specific entry to Guided Fault Finding.
- All fault memories must be interrogated and erased.
- Select *02 - Multitronic 01J Complaint Report >> Powertrain >> Function >> Bucking When Accelerating From A Standstill*. Follow instructions on screen.



Warning:

Observe all workplace and vehicle lift safety guidelines in order to reduce the risk of serious personal injury or death.



Note:

Never operate the vehicle without ATF. Do not exceed 35 mph while operating the vehicle on the lift.

If the clutch plates are replaced, the ATF must be flushed by performing the following steps:

1. Drive the vehicle onto a lift and ensure that the vehicle is secure to the lift.

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2.Raise the vehicle until all 4 wheels are approximately 8 inches off the ground. Ensure that all 4 wheels rotate freely.

3.In Tiptronic mode, shift from first to top gear and accelerate moderately after each shift.

4.Shift the transmission back down into first gear.

5.Carefully apply the brake pedal in order to stop the wheels from rotating.

6.With the brake pedal firmly applied, shift the transmission into **R**.

7.Release the brake pedal and moderately accelerate to approximately 12 mph.

8.Carefully apply the brake pedal in order to stop the wheels from rotating.

9.Return the gear lever to **D** and repeat steps 3 through 8 five times.

10.Place the gearshift lever into **P** and turn the engine off.

11.Change the ATF according to the instructions in *Group 37, Automatic Transmission Controls, Housing in the Repair Manual*.

12.Repeat steps 3 through 11 a second time.

Now adapt the Transmission Control Module (TCM):

1.Confirm that the ATF is at a minimum 65°C. (MVB 10 position 3).

2.With the ATF at a minimum 65°C, carefully operate the vehicle in an open space (clear of traffic and obstacles).

3.Shift vehicle into **D**.

4.Drive forward at part load approximately 10 meters (33 feet), then apply brake pedal to a stop and continue to apply brake pedal for approximately 10 seconds.

5.Shift vehicle into **R**.

6.Release brake pedal.

7.Drive backwards at part load approximately 10 meters (33 feet), then apply brake pedal to a stop and continue to apply brake pedal for approximately 10 seconds.

8.Repeat steps 1 - 7 (alternating between **D** and **R**) five times.

9.Completed adaptations can be viewed in MVB 10 and 11, position 2.

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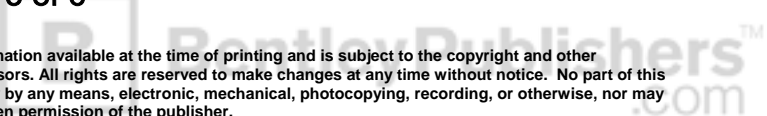


Warranty

When procedure applies to vehicles within the New Vehicle Limited Warranty, use the following:			
Claim Type:	W2		
Part Identifier:	3810		
Damage Code:	Replace clutch pack - 3810 014 002 2 Replace transmission - 3735 010 002 2 Replace line with filter - 3862 016 002 2		
Labor Operations:	3702 5552	Replace ATF	90 TU
	3862 9999	Replace line with filter (If required)	50 TU
	3735 1920	Remove & Install transmission	620 TU
	3810 1950	Remove & install Input shaft	90 TU
	3810 3750	Mainshaft dissembling and assembling	70 TU
Diagnostic Time:	Diagnostic time reimbursement follows guidelines printed in Section 2.2 of the <i>Audi Warranty Policies and Procedures Manual</i>		
Claim Comment:	As per TSB #2011722/3 (7 lamella)		
All warranty claims submitted for payment must be in accordance with the <i>Audi Warranty Policies and Procedures Manual</i> . Claims are subject to review or audit by Audi Warranty.			

Required Parts and Tools

Part Number	Part Description	Quantity
01J-398-941A	Set securing rings	1
01J-398-445	Lock ring with bearing	1
01J-323-929A	Piston, piston ring	1
01J-323-945	Pressure plate	1
01J-398-944	Set discs 7 Plates	1
01J-398-941	Set of discs	2
01J-323-530G	Oil pipe with seals	1
01J-301-461B	Gasket	1
012-311-113B	Seal	1
Complete transmission (if needed)	Always use VIN when checking ETKA for correct part number	1
Contact Equipment Solutions 1-800-892-9650	Required CVT Tool Package	1



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Additional Information

More information on this system can be found in the following resources:

- *SVM Operating Manual; ElsaWeb TSB 2011732*

The following repair procedures will be necessary to complete this procedure:

- *Change ATF: Group 37, Automatic Transmission Controls, Housing in the Repair Manual*

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