

Technical Service Bulletin



Chirping, hooting, squeaking noise when shifting between 3-4

37 06 13 Dec. 7, 2006, 2013023/1

| Model(s) | Year | VIN Range | Vehicle-Specific Equipment |
|-----------------|-------------|--------------------------|----------------------------|
| A4 | 2005 – 2006 | 8E_5A400000 - 8_6A999999 | Automatic Quattro (09L) |
| S4 | 2004 – 2006 | All | |
| S4 Cabriolet | 2005 – 2006 | All | |
| A6 | 2005 – 2006 | All | |
| A8 | 2004 – 2006 | All | Automatic Quattro (09E) |

Condition

Chirping, hooting, squeaking noise when shifting to and from 4th gear.

Noises: Chirping, hooting, squeaking when shifting up and down 3-4; 4-3.

Vibrations: Shudder during the control phase of the torque converter clutch. (See note under Technical Background.)

Technical Background

The torque converter clutch briefly generates (about 500 ms) noises or vibrations/shuddering when changing gears.

NOTE: This only applies to vibrations/shuddering during the control phase of the converter control/converter close.

This converter condition can be checked in MVB 007/3 (converter open/converter control closed)



Note: Any *Update Programming procedure (flash)* may overwrite any “TUNED” ECM or TCM programming. A “TUNED” ECM 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 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, which will automatically overwrite the “ Tuned” program.

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Production Solution

Optimized ATF (Blue) from gearbox numbers 4000597 and 95253

Service

It is not necessary to receive an authorization number from the Technical Assistance Center for the repairs described in this bulletin.

1. Update the transmission control unit via SVM.

The new ATF (blue) needs the software update. Failing to update the software will lead to transmission damage.

- Ensure the Control Module Tuning form has been filled out by the owner.
- For A4 (B7) always use the 6017B K Line Adapter to ensure communication to all modules.



Note: Do *not* use a 6017 or 6017A while flashing. Doing so may result in complete control module failure.

- Update the Transmission Control Module via SVM using **SVM Action Code** from the table below.

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)



Tip: The SVM Process must be completed in its entirety so the database receives the update confirmation response. A warranty claim may not be reimbursed if there is no confirmation response to support the claim.

- For further SVM update instructions and troubleshooting please refer to the *SVM Operating Manual; ElsaWeb TSB 2011732*

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| Model | Engine | Trans Code | Old Software Part Number | Old Software version | New Software Version | SVM Action Code |
|---------|--------|------------|--------------------------|----------------------|----------------------|-----------------|
| A4 (B7) | 2.0L | HHL | 8E1 910 156 A | 0010 | 0090 | NA8E37AA01 |
| | | HKC/JJE | 8E1 910 156 C | 0010 | 0060 | |
| | | JFN/HYH | 8E1 910 156 K | 0010 | 0040 | |
| | | HKE | 8E1 910 156 E | 0010 | 0040 | |
| S4 (B6) | 4.2L | GUR/HHU | 8E0 910 156 R | 0040 or below | 0060 | |
| S4 (B7) | 4.2L | HLB | 8E0 910 156 M | 0010 | 0060 | |
| | | HKF/HYL | 8E1 910 156 F | 0010 | 0030 | |
| | | JTR | 8E1 910 156 M | 0010 | 0030 | |
| A6 (C6) | 3.2L | HAV | 4F0 910 157 E | 0010 | 0090 | NA4F37AA01 |
| | | HLK | 4F1 910 156 H | 0010 | 0020 | |
| | | HKJ | 4F1 910 156 D | 0010 | 0040 | |
| | | HWD | 4F1 910 156 P | 0010 | 0030 | |
| | | HYR/JER | 4F2 910 156 D | 0010 | 0020 | |
| A6 (C6) | 4.2L | GUT | 4F0 910 156 | 0030 or below | 0070 | |
| | | HLL | 4F1 910 156 G | 0060 or below | 0080 | |
| | | HWE/HYS | 4F1 910 156 Q | 0020 | 0040 | |
| | | HKK | 4F1 910 156 E | 0010 | 0030 | |
| A8 (D3) | 4.2L | GCF/GNU | 4E0 910 156 | 0070 or below | 0100 | NA4E37AA01 |
| | | GQF | 4E0 910 156 E | 0070 or below | 0120 | |
| | | HHV | 4E0 910 156 S | 0010 | 0020 | |
| | | HKT / HZA | 4E1 910 156 E | 0020 | 0110 | |
| A8 (D3) | 6.0L | GXL | 4E0 910 156 C | 0040 or below | 0050 | |
| | | HLM | 4E1 910 156 J | 0050 or below | 0060 | |
| | | HKV/JBU | 4E1 910 156 G | 0020 | 0120 | |
| | | GUN | 4E0 910 156 T | 0080 or below | 0090 | |
| | | HKW | 4E1 910 156 H | 0020 | 0110 | |

2. When the software update is complete all the adaptation values of the shift elements in the transmission control unit are deleted. An adaptation drive (Refer to Adaption Drive procedure below) is therefore necessary to ensure shift quality. **(Do not perform adaption drive until after final ATF change)**

3. Drain and fill ATF, then perform flush procedure (Refer to Flush Procedure below). Use only ATF specification "G 055162A2" (blue). Check and correct level according to the repair manual.

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4. Drain and fill with new ATF (blue, "G 055162A2") Check and correct level according to the repair manual.

5. Perform adaption drive. (Refer to Adaption Drive Procedure below)

The complaint may persist for 300 -500 miles after the final ATF change. If complaint persists after 500 miles contact the Technical Assistance Center.

Flush Procedure

- Raise the vehicle until all the wheels are about 8 inches of the ground.
- Before raising a vehicle with air suspension activate the jack mode.
- Adhere to all safety requirements.
- Never run engine without ATF or tow the vehicle
- Do not exceed 35 mph.

1. Observe the gear indicator display in the instrument cluster. Start the engine and release the hand brake.

2. Depress the brake pedal and select "D".

3. Carefully accelerate to 30 mph and hold this speed for 5 seconds.

4. Press the brake pedal until the wheels stop spinning.

5. With brake pedal depressed select "R" and accelerate to 12 mph and hold this speed for 5 seconds.

6. Press the brake pedal until the wheels stop spinning.

7. Repeat steps 2 through 6 five times.

8. When wheels are stationary select "P" and switch off the engine.

Adaption Drive Procedure

1. Drive vehicle with low engine performance until the ATF temperature reaches 60° C, (ATF temperature must not exceed 100° C)

2. With brake pedal depressed, vehicle completely stopped and engine at idle, switch gear selector from "N" to "D" for 3 seconds repeat 5 times. Perform the same procedure from "N" to "R".

3. Shift from 1st to 2nd while driving at low load and shift down from 2nd to 1st, repeat 5 times.

4. Drive at low engine load (engine torque between 80 Nm and 100 Nm refer to 02 automatic gearbox, MVB 09, 1st display value) till the transmission has shifted in to 6th gear (vehicle speed between 50 and 60 mph). Stay in this 6th gear for 60 seconds. let the vehicle roll to a standstill (with gentle brake application at the end). Repeat four times. The aim is to shift up and down under a very light engine load.

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Warranty

| | | | |
|--|----------------------------|--------------------------------------|--------|
| When procedure applies to vehicles within the New Vehicle Limited Warranty, use the following: | | | |
| Claim Type: | W2 | | |
| Part Identifier: | 3735 | | |
| Damage Code: | 3735 10 002 1 | | |
| Labor Operations: | 37359999 | Drain, fill, flush ATF as instructed | 150 TU |
| | 37303101 | Update TCM software | 70 TU |
| | 01219999 | Perform adaption drive | 100 TU |
| Diagnostic Time: | No Diagnostic Time Allowed | | |
| Claim Comment: | As per TSB #2013023/1 | | |
| 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

| Part Number | Part Description | Quantity |
|-------------|---------------------|----------|
| G 055162A2 | ATF (blue) | 16 |
| V.A.G.1924 | ATF charging device | 1 |
| V.A.S 6208 | Drip tray | 1 |

Additional Information

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