



Connection offline

**Technical product information**Transaction No.: **2007190/14**

Judders/vibrates or squeaks when changing gear - A4, A6, A8 with automatic gearbox (09L, 09E)

Release date: 08-Oct-2013

**Customer statement / workshop findings**

1. Noises (squeaking, howling) when shifting up and down 3-4; 4-3 under pressure.
2. Vibrations/juddering during the control phase of the converter clutch (see Note under Cause)

Vehicles with 6 speed automatic gearbox (09L, 09E)

**Technical background**

The clutch generates briefly (about 500 ms) noises or vibrations/juddering when changing gear.

**Note:** This entry only applies to vibrations/juddering during the control phase of the converter clutch.The converter condition can be checked in MVB 007/3 (converter open/ **convertercontrol**/ converter shut).**Production change**

1. Optimised ATF (blue) from February 2005 (gearbox numbers A: 4000597, B:95253).
2. Optimised ATF (green) from March 2008

(gearbox number: A4, A6, A8: 4432890, Q7: 4040037)

**Measure****Case A: vehicles before first chassis break:**On MY 05 vehicles and earlier (before gearbox number: A:4000597, B:95253) **update the software of the gearbox control unit.**

Note:

- The new ATF needs the software version. Failing to update the software will lead to gearbox damage.
1. Update the software of the gearbox control unit (*see table under Parts information*)
  2. Change the ATF twice (1 x flushing and 1 x changing). Use only ATF with the specification " **G 060 162 A...** " (green).
  3. Through the update all the adaptation values of the shift elements in the gearbox control unit are deleted. An **adaptation drive** is therefore necessary to ensure a good shift quality of the gearbox.

**Case B: vehicles after first chassis break:**Vehicles **after the** chassis break have optimised oil and the suitable software version in the gearbox.

1. Change the ATF twice (1 x flushing and 1 x changing). Use only ATF with the specification " **G 060 162 A...** " (green).
2. Delete the adaptation values of the shift elements in the gearbox control unit. An **adaptation drive** is therefore necessary to ensure a good shift quality of the gearbox.

Note: For vehicles from MY 06 the deletion and the adaptation drive can be performed with the guided fault finding.

**If the ATF change is not successful, send a technical enquiry in DISS.****ATF change:**

Flush out the system to remove any old ATF (e.g. from the converter).

1. Drain the ATF and fill in new ATF (green, G 055 162 A...). Check and correct the ATF level according to the repair manual.

Note:

- Before raising a vehicle with air suspension on a lift, the jack mode must be activated.
- Raise the vehicle about 10 to 20 cm.
- All four wheels do not touch the ground any more.
- Check the bearing arms of the lift, lock them if necessary.
- Check the tilting safety of the vehicle.
- Strictly adhere to the safety requirements.

Observe the country-specific health and safety guidelines.

Note:

- Never run the engine without ATF and do not tow the vehicle.
  - Important: Do not drive faster than 50 km/h.
2. Observe the display of the driving modes in the combination instrument. Start the engine and release the handbrake.
  3. Put the gear lever to position "D" while pressing the brake pedal. Carefully press the accelerator.
  4. Carefully accelerate in "D" to maximum 50km/h and hold this speed for several seconds.
  5. Carefully press the brake pedal and stop the vehicle.
  6. Put the gear lever in position "R". Accelerate to 20 km/h and hold this speed for several seconds.
  7. Carefully press the brake pedal and stop the vehicle.
  8. Put the gear lever in position "D" and repeat steps 3 to 7 five times.
  9. When the vehicle is stationary, put the gear lever in position "P" and switch off the engine.
  10. Drain the ATF and fill in new ATF (green, G 060 162 A...). Check and correct the ATF level according to the repair manual.

**Adaptation drive:**

Note: For vehicles from MY 06 the deletion and the adaptation drive can be performed with the guided fault finding.

With older vehicles proceed as follows:

1. Warm up the gearbox with low engine performance till the ATF temperature reaches 60°C (ATF temperature must be below 100°C).
2. At stationary vehicle - idle speed, brakes applied, switch from N to D and hold for about 3 seconds. Repeat five 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 load (engine torque between 80 Nm and 100 Nm, see 02 automatic gearbox, MVB 09, 1st display value) till the transmission has shifted to 6th gear (vehicle speed about 80 - 100 km/h) and stay in this condition for about 30 - 60 seconds. Let the vehicle roll to standstill (with gentle brake application at the end). Repeat four times (the aim is to shift up and down at very little load).

Note:

- The complaint may persist for 500 - 1000 km after the ATF change. Repair only after this period or send a technical enquiry.

**Warranty accounting instructions**

Service number/damage code: 3735 / 0020

**Accounting with APOS:**

Repair operation:	Designation:	Time units:
01 50 00 00	GFF / guided functions	TU according to diagnosis protocol
37 02 55 99	Replace ATF (including flushing)	130 TU

**Accounting with APOS/2:**

Illustration:	Position:	Number:	Activity:	Time units:
STA-00	1	S00002	56	130 TU
STA-02	1	S00032	02	TU according to diagnosis protocol

**Parts information**

**ATF part number:** G 060 162 A... (green ATF)

**Update CD:** 4E0.906.961 Q / 8E0.906.961 P

**Software versions up to MY 05-06:**

Vehicle type	Engine	Gearbox ECU	Gearbox code	SW Part No. (new)	Version (SVM)	SVM code
A4 (B7)	2.0 TFSI	19.04	HHL	8E1 910 156 A	0110	8E02A007

A4 (B7)	2.0 TFSI	19.11	HKC	8E1910156C	0090	8E02A008
A4 (B7)	2.0 TFSI	19.11	JJE	8E1910156C	0090	8E02A007
A4 (B7)	3.2 L FSI	19.04	HHM	8E1910156B	0080	8E02A007
A4 (B7)	3.2 L FSI	19.11	HKE	8E1910156E	0040	8E02A007
A4 (B6)	4.2 l MPI	19.04	GUR/HHU	8E0910156R	0060	8E02A007
A4 (B7)	4.2 l MPI	19.04	HLB	8E0910156M	0060	8E02A005
A4 (B7)	4.2 l MPI	19.11	HKF	8E1910156F	0030	8E02A007
A4 (B7)	4.2 MPI	19.11	JTR	8E1910156 M	0030	8E02A007
A4 (B7)	3.0 l TDI	19.04	GCX	8E1910156	0080	8E02A007
A4 (B7)	3.0TDI	19.11	HKD	8E1910156D	0030	8E02A007
A6 (C6)	3.0 l MPI	19.04	HFM	4F1910156	0050	4F02A007
A6 (C6)	3.2 FSI	19.04	HAV	4F0910157E	0090	4F02A007
A6 (C6)	3.2 FSI	19.04	HAK	4F1910156H	0060	4F02A007 / NA4F37AA01
A6 (C6)	3.2 FSI	19.04	HLK	4F1910156H	0080	4F02A007
A6 (C6)	3.2 FSI	19.11	HKJ	4F1910156D	0070	4F02A012
A6 (C6)	3.2 FSI	19.11	HWD	4F1910156P	0050	4F02A012 / NA4F37AA01
A6 (C6)	4.2 l MPI	19.04	GUT	4F0910156	0070	4F02A007
A6 (C6)	4.2 l MPI	19.04	HLL	4F1910156G	0070	4F02A007
A6 (C6)	4.2 l MPI	19.11	HKK	4F1910156E	0030	4F02A007
A6 (C6)	2.7 l TDI	19.11	HXM / HYN	4F1910156R	0060	4F02A012
A6 (C6)	3.0 l TDI	19.04	GZW	4F0910156H	0110	4F02A007 / NA4F37AA01
A6 (C6)	3.0 l TDI	19.11	HXN	4F1910156S	0030	4F02A007
A6 (C6)	3.0 l TDI	19.11	HKG	4F1910156B	0050	4F02A009
A8 (D3)	3.0 l TDI	19.04	GZV	4E0910156F	0100	4E02A002 / NA4E37AA01
A8 (D3)	3.0 TDI	19.11	HYT	4E1910156A	0120	4E02A004
A8 (D3)	3.0 TDI	19.11	HKL	4E1910156A	0120	4E02A004
A8 (D3)	4.0 l TDI	19.04	HCA	4E0910156N	0020	4E02A002
A8 (D3)	4.0 l TDI	19.04	HPY	4E1910156L	0030	4E02A002
A8 (D3)	4.0 l TDI	19.04	GZA	4E0910156J	0040	4E02A002
A8 (D3)	3.2 l	19.11	HKX	4E1910156B	0100	4E02A002 / NA4E37AA01
A8 (D3)	3.7 l	19.11	HKS	4E1910156D	0120	4E02A002 NA4E37AA01
A8 (D3)	3.7 MPI	19.04	GQE	4E0910156D	0100	4E02A002 / NA4E37AA01
A8 (D3)	3.7 MPI	19.04	HCU	4E0910156Q	0040	4E02A004
A8 (D3)	4.2 MPI	19.04	GQF	4E0910156E	0120	4E02A002 / NA4E37AA01
A8 (D3)	4.2 MPI	19.04	HHV	4E0910156S	0030	4E02A004

	4.2 MPI	19.11	HZA	4E1910156E	0110	4E02A002 / NA4E37AA01
A8 (D3)	4.2 I	19.11	HKT	4E1910156E	0110	4E02A002 / NA4E37AA01
A8 (D3) LWB	6.0 MPI	19.04	GXL	4E0910156C	0050	4E02A002
A8 (D3) LWB	6.0 MPI	19.04	HLM	4E1910156J	0060	4E02A002
A8 (D3) NWB	6.0 MPI	19.04	GUN	4E0910156T	0090	4E02A002
A8 (D3) LWB	6.0 MPI	19.11	HKV / JBU	4E1910156G	0120	4E02A002 / NA4E37AA01
A8 (D3) NWB	6.0 MPI	19.11	HKW	4E1910156H	0110	4E02A002 / NA4E37AA01

LWB - long wheel base

NWB - normal wheel base

### Customer information

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