

Audi 100, S4, A6, S6 > 1992-1998 4 Spd. Automatic Transmission 01F All Wheel Drive 37 - ATF, Checking and Changing

ATF Level, Checking

Test Conditions

- ▶ Transmission must not be in limp-home mode
- ▶ Vehicle standing level
- ▶ Selector lever in position "P" , let engine idle
- ▶ Air conditioner and heater must be switched off

Note:

- ◆ For vehicles from 7/95, only use part no. VW ATF G 052 162 (color: colorless-yellow).
- ◆ For vehicles to 6/95, the remaining stocks of ATF Dexron can be used up. After that, fill with ATF part number VW ATF G 052 162 (color: colorless-yellow).
- ◆ No additives can be used.

Container

- ▶ 0.5 L - replacement part no. G 052 162 A1
- ▶ 1.0 L - replacement part no. G 052 162 A2

Note:

- ◆ The ATF level changes with ATF temperature.
- ◆ If the ATF level is checked when the ATF temperature is too low, it leads to overfilling.
- ◆ If the ATF level is checked when the ATF temperature is too high, it leads to inadequate filling.
- ◆ Overfilling or inadequate filling impairs the transmission function.
- ◆ The ATF temperature is read on the Fault Read Out Device VAG 1551

Checking ATF Temperature

- Connect Fault Read Out Device VAG 1551 , press buttons 0 and 2 to select "Transmission Electronics" address word 02 and keep pressing until "Select function XX" is indicated on display. ⇒ Automatic Transmission On Board Diagnostic - Repair Group 01
- Press buttons 0 and 8 to select "Read Measuring Value Block" function 08 and press Q button to confirm input.

Vehicles with 2.8 I - 128 kW from approx. 09.92:

Note:

- ◆ The Transmission Control Module (TCM) is identified with "01D" during entry into On Board Diagnostic (OBD).

If indicated on display:

```
Read Measuring Value Block Q
Input display group number XXX
```

- Press buttons 0 , 0 and 0 to input display group number 000 and press Q button to confirm input.

If indicated on display:

```
Read Measuring Value Block →
1 2 3 4 5 6 7 8 9
```

- Read ATF temperature in display field 1.

Note:

- ◆ The displayed value, minus 50, results in the ATF temperature in degrees Celsius (e.g. display 110 - 50 = 60 ° C).
- ◆ Precise display does not occur until 40 ° C.

Vehicles with 55-pin control module: approx. from 9/92

2.8 I - 128 kW ca. from 09.92

2.2 I - 169 kW

Note:

- ◆ The Transmission Control Module (TCM) is identified with "01K" during entry into On Board Diagnostic (OBD).

If indicated on display:

```
Read Measuring Value Block
Input display group number XXX
```

- Press buttons 0 , 0 and 4 to input display group number 004 and press Q button to confirm input.

If indicated on display:

Read Measuring Value Block 4 →
1 2 3 4

- Read ATF temperature in display field 4.

Vehicles with 88 pin control module: mid-year from 96 (running change)

If indicated on display:

Read Measuring Value Block
Input display group number XXX

- Press buttons 0 , 0 and 4 to input display group number 004 and press Q button to confirm input.

If indicated on display:

Read Measuring Value Block 4 →
1 2 3 4

- Read ATF temperature in display field 1.

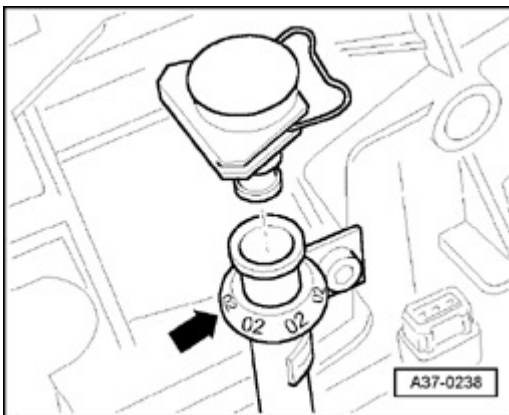
ATF Level, Vehicles to 5/94, Checking and Correcting

Note:

- ✦ Automatic transmission can be retrofitted with the new filler system .

Vehicles with 6 cylinder engine,

Audi S4 to vehicle ID number 4A RN 033 426 (to approx. 11.93)

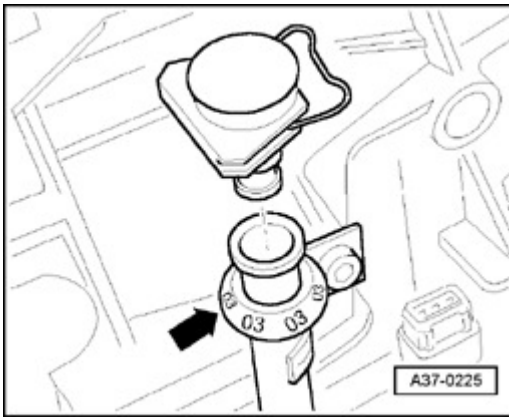


- To check ATF level, use dipstick with identification "02."

Note:

- ✦ Vehicles that require dipstick with identification "02" , also have the identification "02" imprinted on the ATF filler tube (- **arrow** -).

Audi S4 from vehicle ID number 4A RN 033 427 (to approx. 11.93):



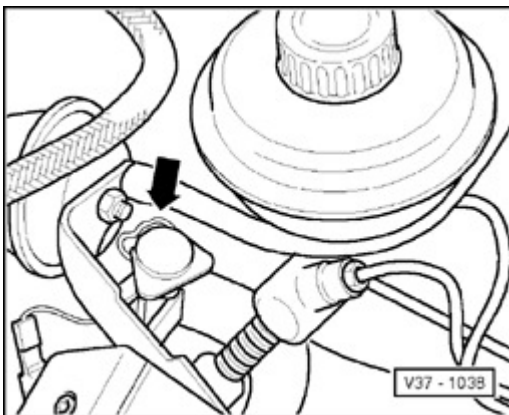
- To check the ATF level, use dipstick with identification "03."

Note:

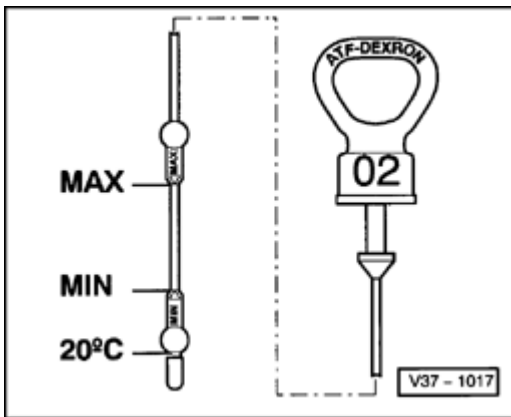
- ◆ Vehicles that need the dipstick with identification "03" , also have the identification "03" on the ATF filler tube (- **arrow** -).

All vehicles:

- Move selector lever to position "P" and let engine idle.
- Check ATF temperature using "Read Measuring Value Block" (starting on ⇒) for transmission version installed.



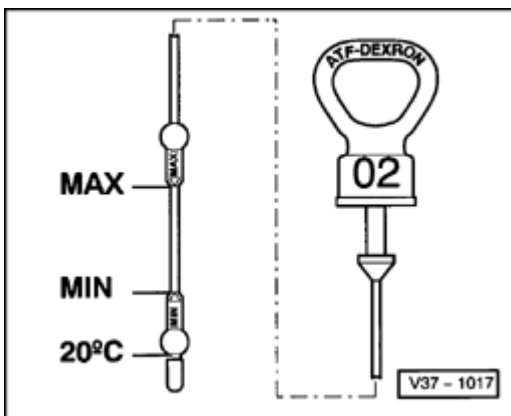
- Remove cap (- **arrow** -) from ATF filler tube.
- When cold, check ATF level with dipstick "02" i.e. "03" .
- With ATF cold, pull out dipstick, wipe using cloth that does not leave lint, insert into ATF filler tube up to stop and pull out again.



- ▶ Fluid level must reach up to 20 ° C marking
- If necessary, top off with ATF through ATF filler tube, using clean funnel.
- Let engine continue to idle.
- When ATF temperature reaches approx. 70 ° C, pull out ATF dipstick again, wipe off, insert up to stop and pull out again.

ATF level too low

- Top off ATF through ATF filler tube, using clean funnel.
- Shift through all selector lever positions with engine running and vehicle standing still.
- Check ATF level again at test temperature.



Fluid level must be between MIN and MAX markings

ATF level too high

- Suction out excess ATF using VAG 1358A oil suction device and 1358/A1 probe.

Note:

- ◆ Switch off engine to suction out ATF.
- Check ATF level again at test temperature.

- Press → button on Fault Read Out Device VAG 1551 .
- Press buttons 0 and 6 to select "End output" function 06 and press Q button to confirm input.

Note:

- ✦ The ATF measurement must be completed at the latest when ATF temperature of 90 ° C is reached. If necessary, let fluid cool off again.
- ✦ The MIN/MAX markings on the ATF dipstick relate to an ATF temperature of 80 ° C ± 10 ° C, i.e. for this temperature range, the ATF level must be between "MIN" and "MAX."

ATF Level, Vehicles from 5/94, Checking and Correcting

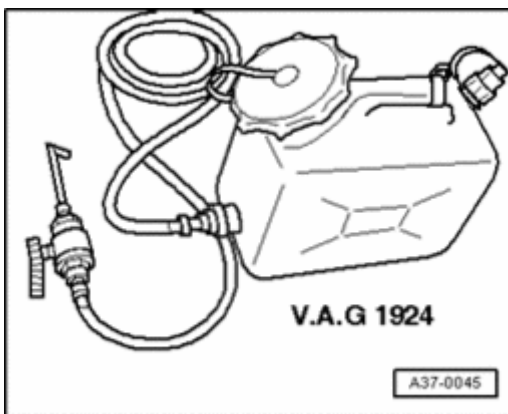
Note:

- ✦ The ATF level is checked at the ATF check-plug hole.
- ✦ The ATF level is correct if fluid slightly runs out at the ATF check-plug hole with ATF temperature between 35 ° C and 45 ° C * [See note](#) (caused by the increase in the fluid level during warm-up).
- ✦ Older vehicles with automatic transmission may also have been retrofitted to the filler system without the filler tube described below.

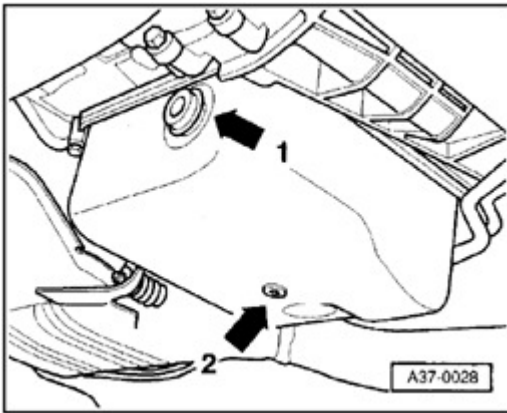
ⓘ For hot climates 50 ° C

CAUTION!

Wear safety glasses.



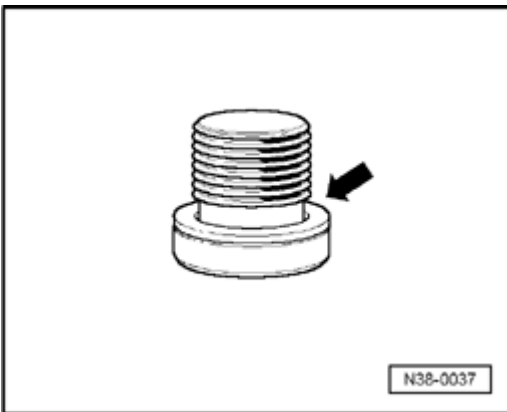
- Attach supply reservoir of ATF Filler Tool VAG 1924 at the highest possible point on vehicle.
- Place catch basin under transmission.



- After ATF temperature of 35 ° C is reached, remove ATF check-plug (- **arrow 1** -) and if necessary drain excess fluid.
- ▶ If ATF leaks out of ATF check-plug hole before ATF has reached 40 ° C, ATF level is OK.

Note:

- ◆ The ATF check-plug must be reinstalled when ATF temperature reaches 45 ° C * [See note](#) .
- ⚡ For hot climates 50 ° C
- ▶ If at 40 ° C, ATF does not leak out at ATF check-plug hole, top off ATF using filler hook from ATF Filler Tool VAG 1924 until ATF runs out from ATF check-plug hole.



- Install new seal (- **arrow** -) for ATF check-plug.
- Install ATF check-plug (60 Nm or 44 ft lb).
- Press → button on Fault Read Out Device VAG 1551 .
- Press buttons 0 and 6 to select "End Output" function 06 and press Q button to confirm input.

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