

If during the basic setting the connection is interrupted/breaks off

Occasionally, the connection between control unit and -VAS 5051 A- – particularly after the prompt “StartMot!” – may be interrupted/break off. In that case: under no circumstances switch off the ignition.

The control unit “notes” the place at which the connection was aborted. Therefore it is only necessary to reselect the display group.

If the ignition has not been switched off, the basic setting is continued exactly at that “place”.

Select the vehicle system “02 - Gearbox electronics” again, then the diagnostic function “04 - Basic setting”.

Use keypad to enter “14” for “Display group 14” and confirm by touching Q key.

If faults occur during basic setting

If faults occur during basic setting, these are also shown on the display. The faults are not displayed consecutively, instead only the first fault to occur is displayed. At the end of the basic setting, an entry is also made in the fault memory.

Faults are displayed as follows:

Display zones	Explanations
1	RTFM! Basic setting aborted.
2	
3	7
	<p>Possible fault displays and their meaning:</p> <ul style="list-style-type: none"> • 7 - Potentiometer 2 for gear recognition -G240- • 8 - Potentiometer 1 for gear recognition -G239- • 9 - Reversing light switch -F4- <p>Remedy:</p> <p>Check switches and wiring in the measured value blocks and according to current flow diagram</p> <hr/> <ul style="list-style-type: none"> • 10 - Potentiometer values not stable during measurement • 11 - Potentiometer values <p>Remedy</p> <p>Check the corresponding potentiometers in measured value blocks 015 to 018 → Chapter</p> <p>Interrogate fault memory and eliminate faults in line with fault tables → Chapter</p> <p>Initiate basic setting again after repair → Chapter</p> <hr/> <ul style="list-style-type: none"> • 12 - Gear actuator is not adjusted correctly or the measured values are outside the tolerances <p>Remedy</p> <p>Check potentiometer, valves and selector finger at the ball heads for correct assembly and seating</p> <p>Initiate basic setting again after adjusting the gear actuator → Chapter</p> <p>Further notes → Chapter</p> <p><u>“Basic setting cannot be performed”</u></p>
4	

If the voltage value for the clutch travel sender -G162- is outside the tolerance

Disconnect the connector 1 at the hydraulic control unit because the hydraulic pump is able to start up even with the ignition off.

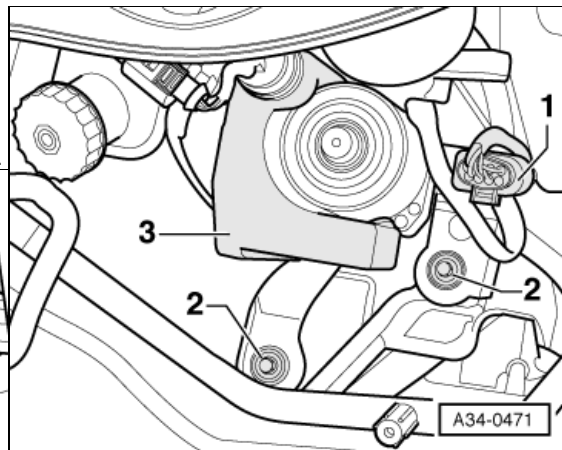
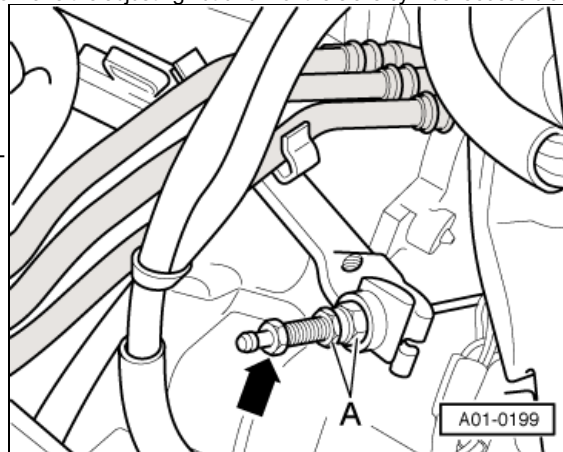
Remove hydraulic control unit (3 nuts) → [5-speed Manual Gearbox 085-DS](#) → [Rep. Gr.34](#), place to one side and secure with wire. Do not disconnect battery, do not disconnect pipes.

Note

- This step is necessary to make the adjusting nut *arrow* for the slave cylinder accessible.

Release the lock nuts *A* on the cable of the slave cylinder.

Twist the adjusting nut *arrow* and check the voltage value in the display of the -VAS 5051 A-



Display on -VAS 5051 A- :

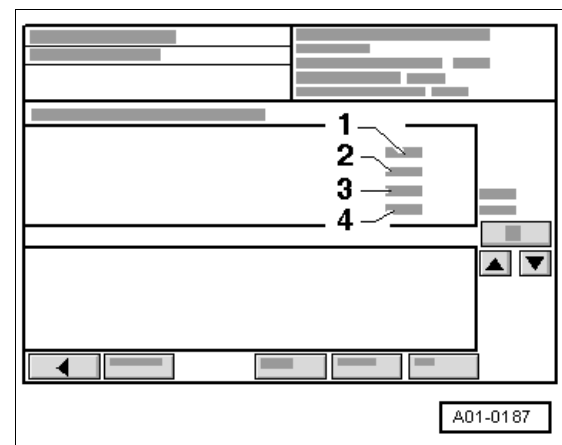
- Specified value in display zone 2: 1.85 ... 1.95 V.

If reading matches specification:

Press the brake pedal as far as possible twice for approx. 5 seconds and release it again.

If the voltage is now no longer in the specified value range, you must repeat the adjustment.

If the specified value remains constant:



Counter both nuts *A*, without changing the adjustment.

- The adjusting nut *arrow* must not turn any more and the voltage value must be in the specified range.

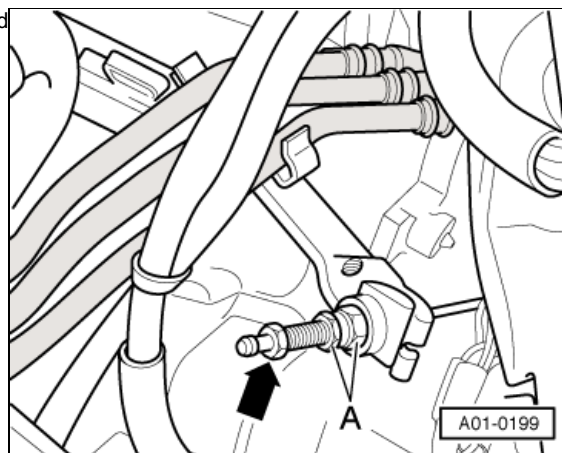
Install hydraulic control unit, → [5-speed Manual Gearbox 085-DS](#) → [Rep. Gr.34](#).

Continue basic setting → [Anchor](#).

Note

- If the voltage value cannot be adjusted → [Chapter](#)

“Voltage value of the clutch travel sender -G162- cannot be adjusted”



Programming the creep point

Requirements

- Engine is at operating temperature.
- Selector lever in position "STOP".

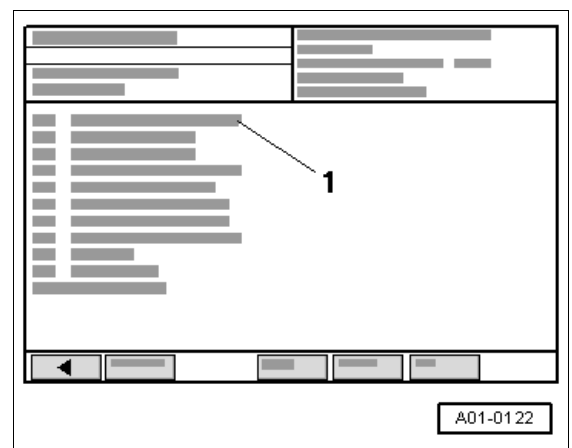
Procedure

Apply handbrake fully.

Start engine.

Connect the vehicle diagnostic, testing and information system -VAS 5051 A- → [Chapter](#) and select the vehicle system "02 - Gearbox electronics".

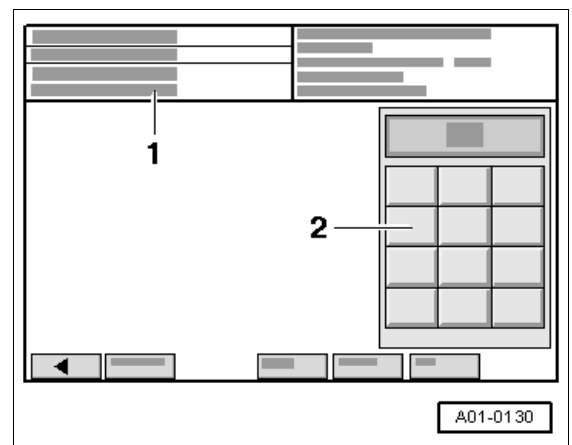
Display on -VAS 5051 A- :



From list 1 select diagnostic function "08 - Read measured value block".

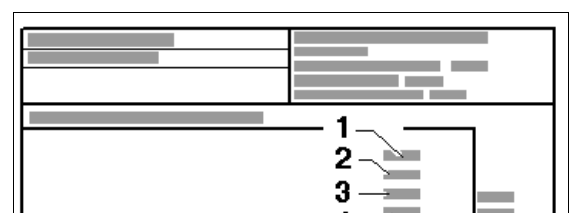
Display on -VAS 5051 A- :

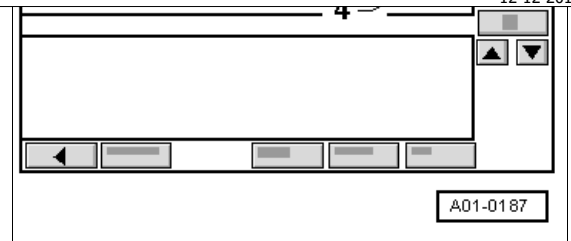
1. Enter display group (max. input value = 255)



Use keypad 2 to enter "25" for "Display group 025" and confirm by touching Q key.

Display on -VAS 5051 A- :





In the display zone 3 check the value for the programming of the creep point.

- Specified value: 0

Note

- If the value e.g. is at "4", the creep point must be programmed at least another 4 times.

To do this, shift selector lever to position "D".

Press the brake pedal and hold it down for at least 3 seconds.

Release the brake pedal for at least 3 seconds.

Repeat this process until the value in display zone 3 is at "0".

When the value is at "0", the creep point is adjusted correctly.

End diagnostic function "08 - Read measured value block" by touching ← key.

From list 1 select diagnostic function "06 - End output".



Display on -VAS 5051 A- :

If the value "0" has not been reached after programming the creep point several times, the fault memory of the engine control unit must be interrogated.