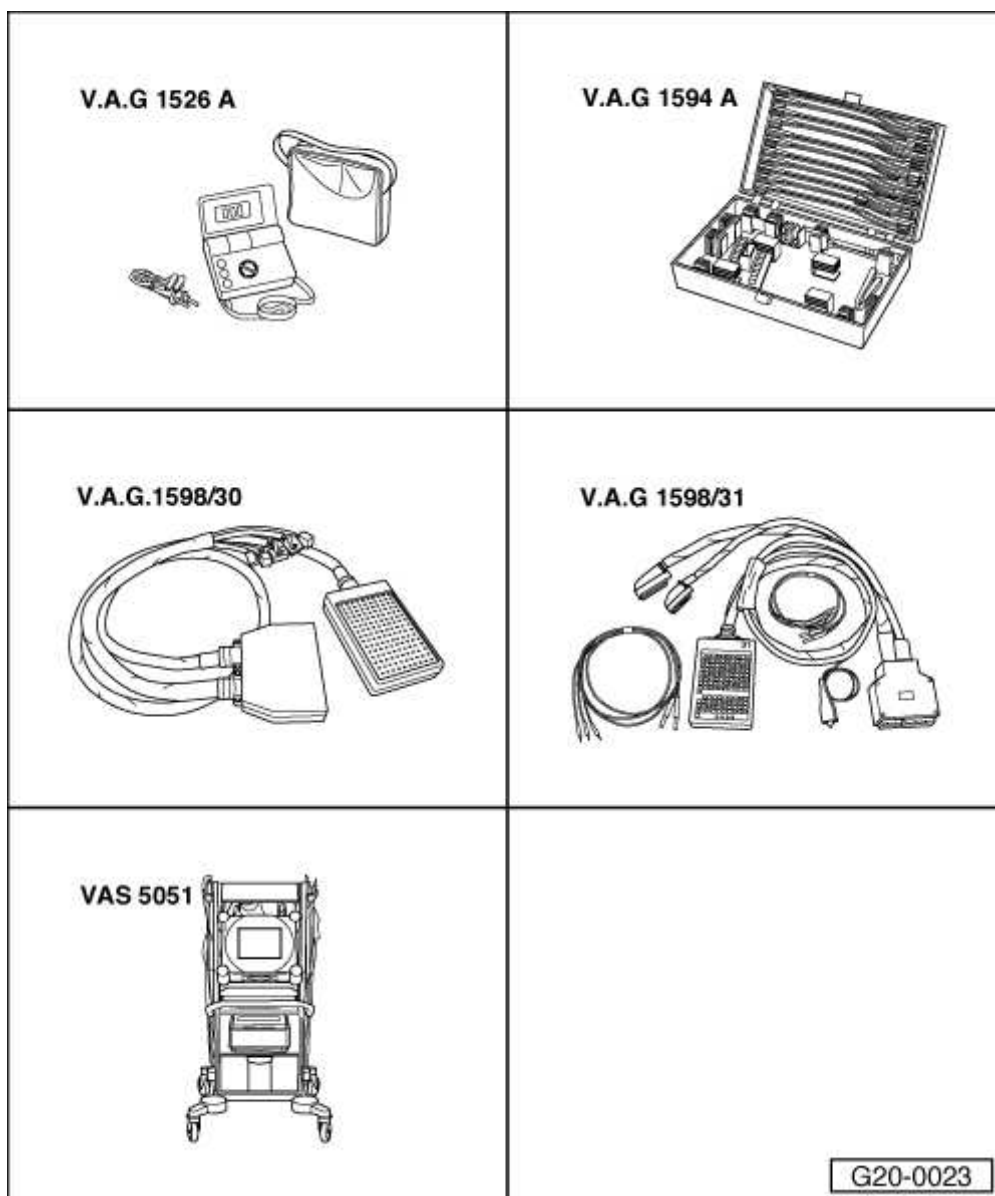


Checking accelerator position sender -G79- - vehicles with 6-cylinder engine



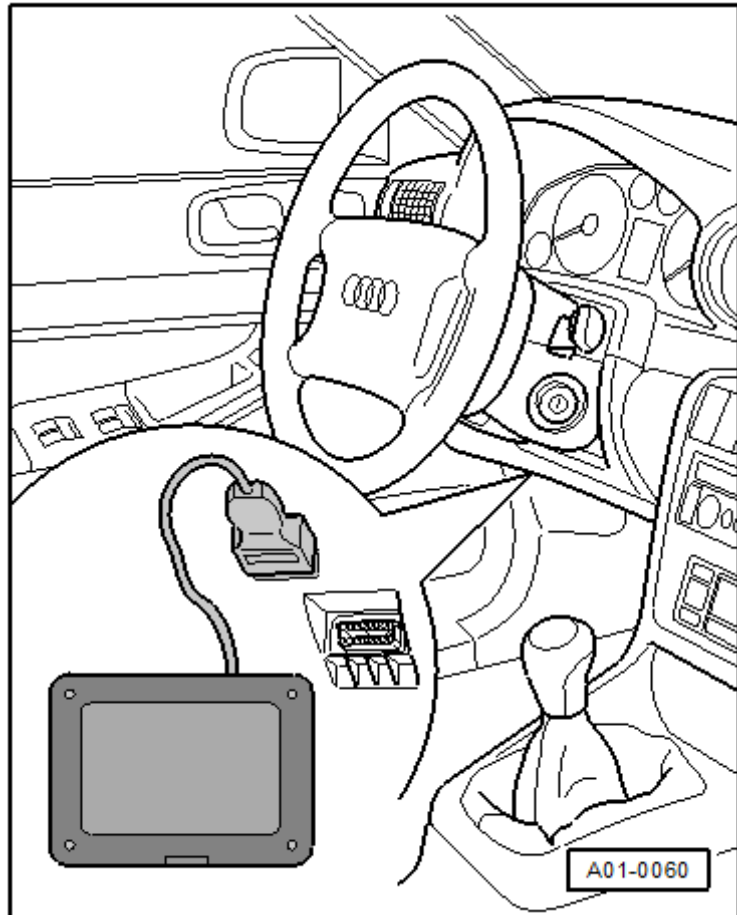
Special tools and workshop equipment required

- ◆ Hand-held multimeter -V.A.G 1526C-
- ◆ Auxiliary measuring set -V.A.G 1594C-
- ◆ Adapter -V.A.G 1598/30- (engine code letters: AFB with manual gearbox or automatic gearbox: AKN with manual gearbox)
- ◆ Adapter cable, 121-pin -V.A.G 1598/31- (engine code letters: AKE with manual gearbox or automatic gearbox: AKN with automatic gearbox)
- ◆ Vehicle diagnostic, testing and information system -VAS 5051B-

Procedure

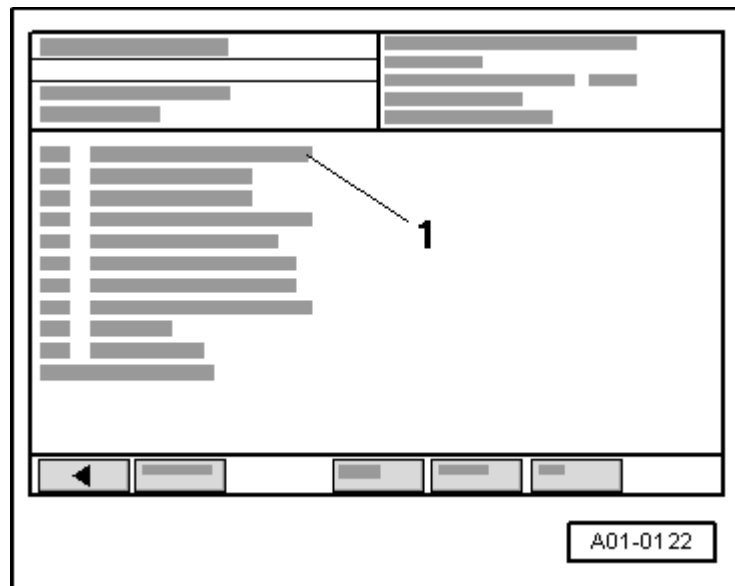
- Vehicle diagnostic, testing and information system -VAS 5051B- is connected; vehicle self-diagnosis and vehicle system "01 - Engine

electronics" is selected. When doing this, the ignition must be switched on.



Display on -VAS 5051B-

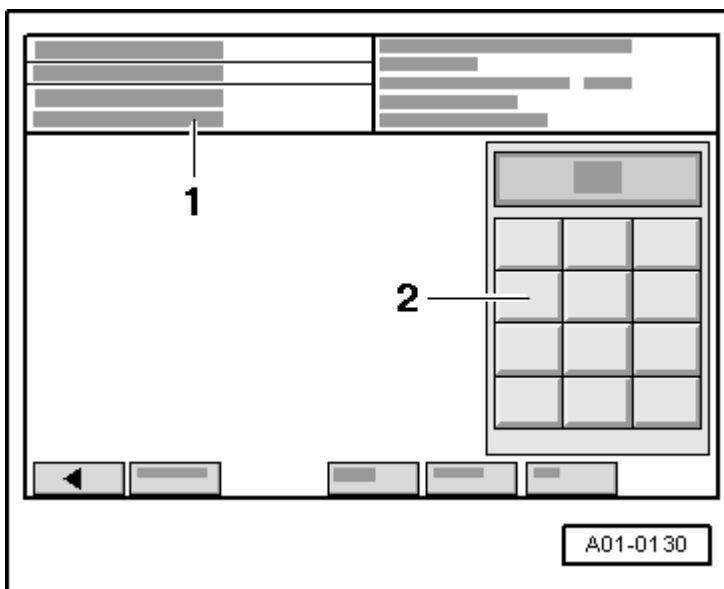
- From the list -1- select diagnostic function "08 - Read measured value block".



Display on -VAS 5051B-

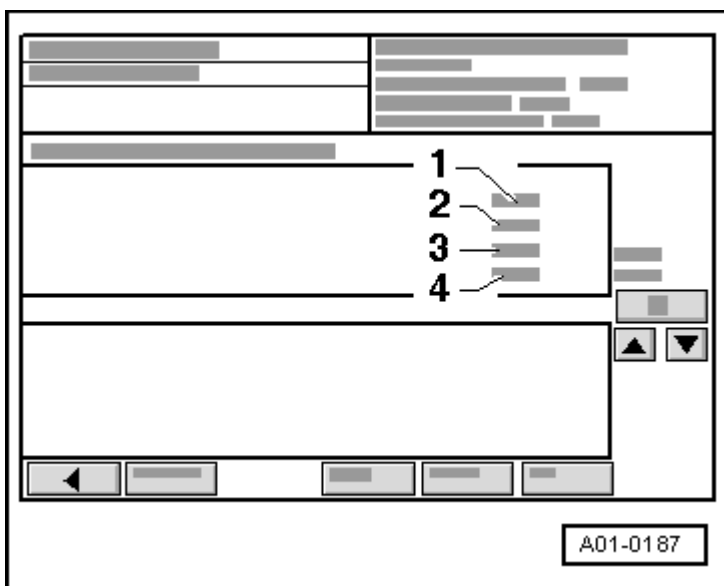
- In zone -2- enter for "display group 002" and confirm the entry by pressing the key.

1 - Enter display group




Display on -VAS 5051B-

- Check values in zones -2- and -3-.



Display zones		Explanatory notes
2	... %	Accelerator pedal not depressed <ul style="list-style-type: none"> • Specification: 0.0 % - Press accelerator pedal down slowly Specification: <ul style="list-style-type: none"> • Readout should increase steadily until it reaches 100 % (accelerator pedal fully depressed) • Vehicles with automatic gearbox: the kickdown switch pressure point must be distinctly felt before the full throttle stop position is reached.
3	...	Accelerator pedal not depressed <ul style="list-style-type: none"> • Specification: 0 01 00 Accelerator pedal depressed <ul style="list-style-type: none"> • Specification: 0 00 00

- Press the  button to exit from the function "08 - Read measured value block".
- Press "06 - End output".
- Switch off ignition.

All models:

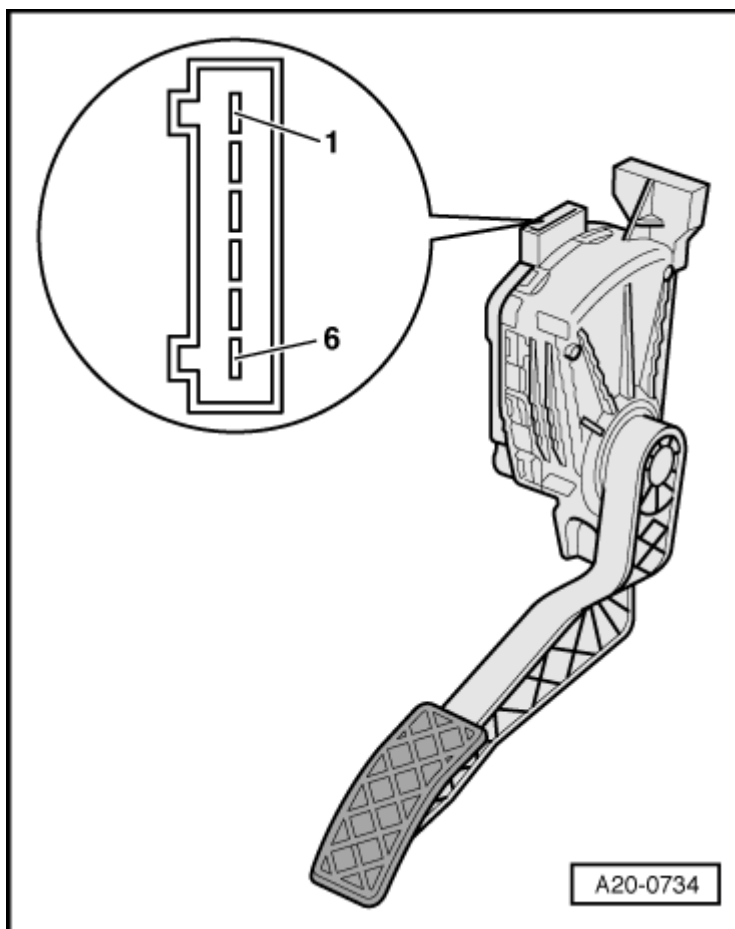
If the specifications for the initial and/or final readouts are not obtained:

- Check that accelerator pedal moves freely; renew accelerator pedal module if necessary.

If the display does not change or only changes irregularly:

Checking internal resistance

- Remove accelerator pedal module
→ Chapter.
- Connect up multimeter for resistance measurement as follows.



Connector Contact	Specification
-3- + -4-	Accelerator pedal not depressed • 0.6 ... 1.4 kΩ
-2- + -3-	Accelerator pedal not depressed • 0.6 ... 1.4 kΩ
-5- + -6-	Accelerator pedal not depressed • 0.6 ... 1.4 kΩ Accelerator pedal depressed

	<ul style="list-style-type: none"> • $\infty \Omega$
-1- + -6- ¹⁾	<p>Accelerator pedal not depressed</p> <ul style="list-style-type: none"> • $\infty \Omega$ <p>Accelerator pedal fully depressed</p> <ul style="list-style-type: none"> • 0.6 ... 1.4 kΩ
<ul style="list-style-type: none"> • ¹⁾ Only vehicles with automatic gearbox. 	

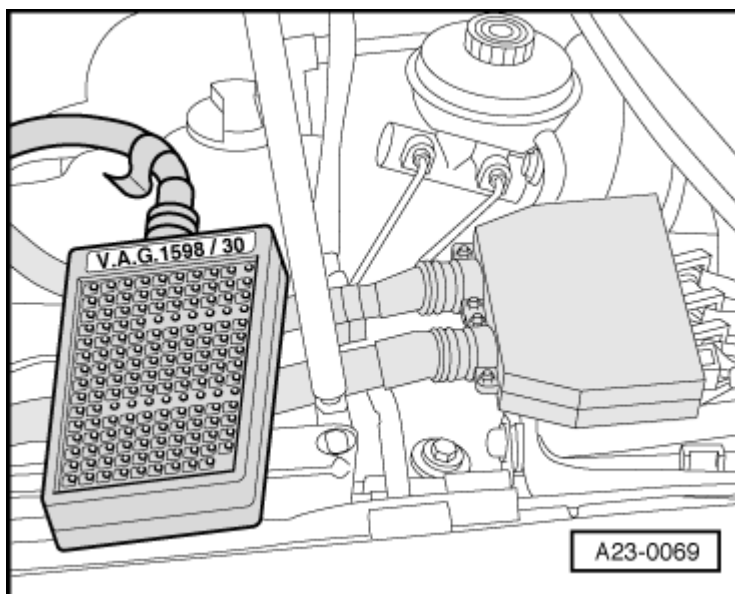
If the specifications are not obtained:

- Renew accelerator pedal module.

Checking wiring

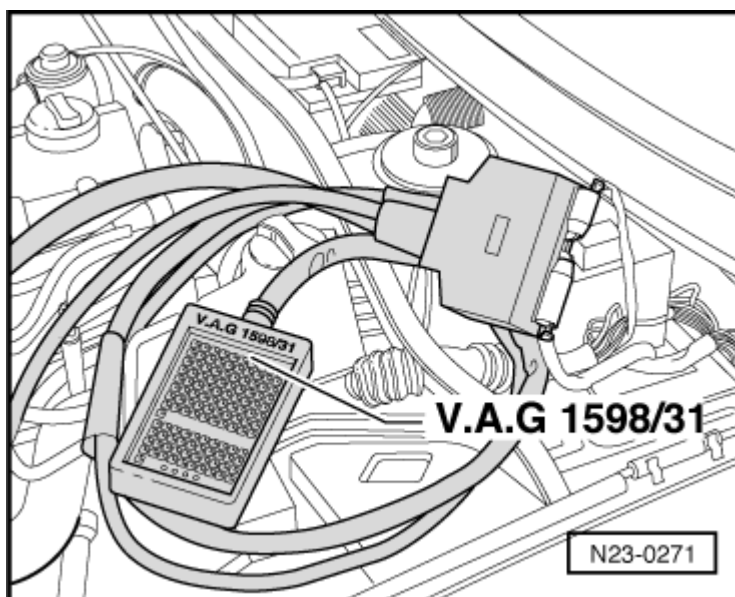
Engine code letters: AFB with manual gearbox or automatic gearbox: AKN with manual gearbox:

- Connect adapter -V.A.G 1598/30- to connectors on wiring harness; do not connect engine control unit →Rep. Gr.23.



Engine code letters: AKE with manual gearbox or automatic gearbox; AKN with automatic gearbox:

- Connect adapter cable, 121-pin -V.A.G 1598/31- to connectors of wiring harness; do not connect engine control unit. Connect earth clip of adapter cable to earth (not shown in illustration) →Rep. Gr.23.



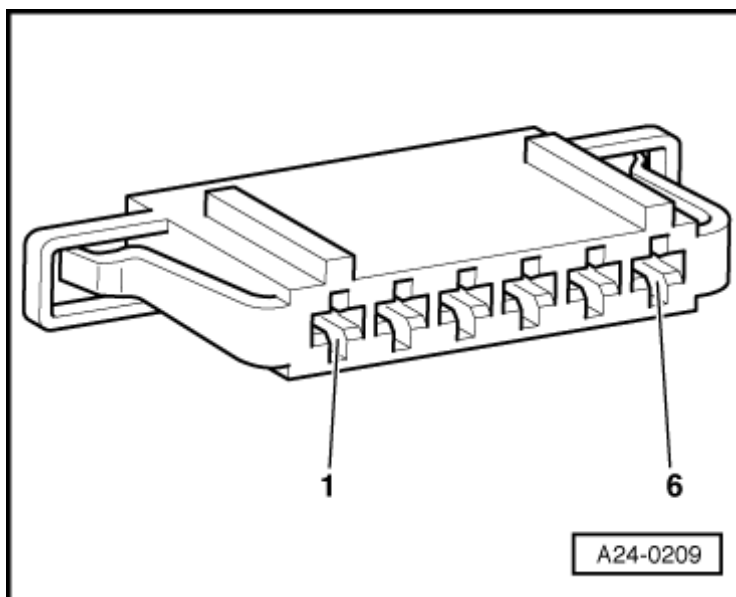
All models:



Caution

To prevent damage to electronic components, select appropriate measuring range before connecting measuring leads and observe test requirements.

- Check for open circuit and short to positive or earth in the following wiring:



Connector Contact	-V.A.G 1598/30- Socket	-V.A.G 1598/31- Socket
-1-	4/08	63
-2-	4/09	12
-3-	4/07	50
-4-	4/13	69
-5-	4/34	70
-6-	4/12	51

- Repair wiring connection if necessary.