01-34

On Board Diagnostic (OBD), initiating

Additional information

♦ Audi A4 Repair Manual, 5 Spd. Automatic Transmission 01V,

♦ Electrical Wiring Diagrams, Troubleshooting & Component Locations

♦ Parts catalog

Safety precautions

If special testing equipment is required during test drive, note the following:

WARNING!

♦ *Always secure test and measuring instruments to the rear seat and have it operated by a second person from that location.*

♦ *If test and measuring equipment is operated from the passenger seat, the passenger-side airbag could be activated in case of an accident and could lead to injury to the person sitting there.*

01-35

To reduce the risk of personal injury and/or damage of electric and electronic components, always observe the following:

◆ Always switch the ignition off before connecting or disconnecting testers or measurement tools.

◆ It is possible that the control module will recognize a malfunction and store a DTC during some tests. After completing all tests and repairs, check DTC memory and erase the memory.

◆ Always switch ignition off before disconnecting and connecting the battery to avoid damaging the transmission control module.

01-36

Vehicle Diagnosis, Measuring and Information System VAS 5051 or V.A.G 1551 scan tool, connecting and selecting functions

Test requirements

- Selector lever in "P" position and parking brake applied.

- Vehicle voltage supply OK

- Power supply and fuses for respective system OK

⇒ *Electrical Wiring Diagrams, Troubleshooting & Component Locations*

- Ground (GND) connections and Ground point for transmission OK

⇒ *Electrical Wiring Diagrams, Troubleshooting & Component Locations*

- Check Ground connections for corrosion and

damage and repair if necessary.

- Check battery Ground (GND) strap and Ground
  strap between battery and transmission.

01-37

- Switch ignition off.

For vehicles up to m. y. 2000
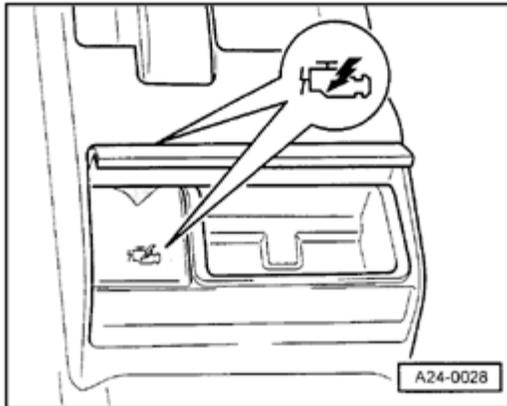
- The Data Link Connector (DLC) is located behind the cover in the rear ash tray (center console) for vehicles up to m. y. 2000

- Open rear ashtray (center console) and remove cover for DLC.
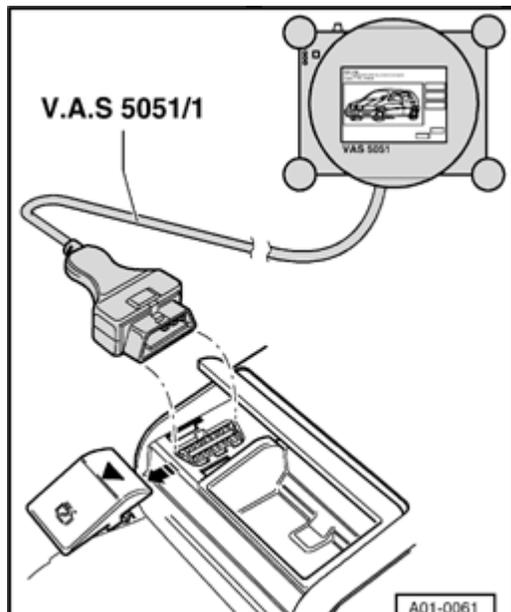
- Connect VAS5051 tester to vehicle with VAS5051/1 diagnostic cable. Alternately, V.A.G1551 Scan Tool can also be used, using VAG1551/3 adapter.

01-38

A01-0060

For vehicles from m. y. 2000
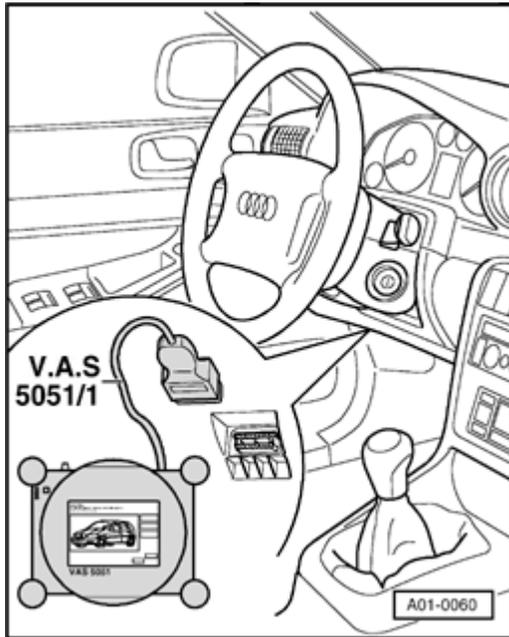
- The Data Link Connector (DLC) is located below the kneebar left of the steering wheel. for vehicles up to m. y. 2000

- Connect VAS 5051 tester to vehicle with VAS 5051/1 diagnostic cable. Alternately, V.A.G 1551 Scan Tool can also be used, using VAG 1551/3 adapter.

CAUTION!

♦ *When performing road tests with testers and measuring equipment, such equipment must only be operated from the rear seat.*

♦ *Observe all safety precautions listed on page 01-34*

Note:

The following description applies to the V.A.G 1551 Scan Tool. For the Vehicle Diagnosis, Measuring and Information System VAS 5051 please refer to the operating instructions.

01-39

VAG - On Board Diagnostic HELP
1 - Rapid data transfer
2 - Blink code output

◄ Indicated on display [1]

[1] Operating modes 1 and 2 are displayed alternately

Notes:

 ♦ *Get additional operating instructions by pressing the HELP key of V.A.G 1551.*

 ♦ *Use the → key to advance within the program sequence.*

 ♦ *An automatic check (keys 00) can be done in operating mode 1 "Rapid data transfer". This way all vehicle control modules will be checked automatically.*

⇒ *Scan tool V.A.G 1551 operating instructions.*

 - Switch on ignition.

 - Switch on printer with the Print key (indicator lamp in key lights up).

 - Press key 1 for "Rapid data transfer" mode.

Rapid data transfer   HELP
Enter address word XX

◄ Indicated on display:

 - Press keys 0 and 2. (Enter the address word "transmission electronics" with 02.)

Rapid data transfer   Q
02 Transmission electronics

◄ Indicated on display:

 - Press Q button to confirm entry.

01-40

8D0927156BT AG5 01V 2.81V USA 1416 →
Coding 00002   **WSC 00000**

◄   Appears on display:

The control module identification is displayed:

Control module identification

Depending on the software version, the control module may indicate a different control module identification as shown in this example. Allocation of control module ⇒ Parts catalog.

- ♦ 8D0927156BT: Part number

- ♦ AG5 01V: 5-speed automatic transmission 01V

- ♦ 2.8l 5V: Engine version

- ♦ USA: (country), USA and CANADA

- ♦ 1416: 14 = program version; 16 = data version

- ♦ Coding 00002: Coding ⇒

- ♦ WSC 00000: Dealer number of V.A.G 1551, with the last coding was performed

Control module does not answer! HELP

◄   Indicated on display:

- By pressing the HELP key, a list of possible malfunction is printed out.

- After eliminating the possible causes of malfunctions, enter address word 02 for "transmission electronics" and confirm.

01-41

If again "Control module does not answer!"
appears:

Control module does not answer! HELP

◄ Indicated on display:

Check control module voltage supply.

- Perform test step 1 ⇒ page 01-273 , Electrical check.

- Check wiring connections to diagnostic connectors

⇒ *Electrical Wiring Diagrams, Troubleshooting & Component Locations*

- Replace control module if necessary

  Location and removing and installing of control module ⇒ page 01-273 , item 1

- Press ⇀ key.

Rapid data transfer   HELP

Select function XX

◄ Indicated on display:

- After the HELP key is pressed, a list of possible functions is printed out.

01-42

List of selectable functions

		Page
01 -	Check control module version ⇒ On Board Diagnostic (OBD), initiating	⇒ Page 01-34
02 -	Check DTC memory	⇒ Page 01-43
03 -	Output Diagnostic Test Mode	⇒ Page 01-163
05 -	Erase DTC memory	⇒ Page 01-178
06 -	End output	
07 -	Code control module	⇒ Page 01-180
08 -	Read measured value block	⇒ Page 01-186

Disregard functions, which can be printed out by pressing the HELP key.

- After checking a function the V.A.G 1551 returns to the following start position:

◀   Indicated on display:

Rapid data transfer	HELP
Select function XX	