



## Air conditioning, electrical testing

### Wire and component test using VAG1598 A test box

#### Special tools and equipment

- ◆ VAG 1598 A test box and VAG 1598/11 adapter cable and VAG 1598/12
- ◆ VAG1526 Multimeter

or

- ◆ VAS 5051 Vehicle diagnostic, Test Instruments and Information system, with measuring leads VAS 5051/7, DSO measuring cable VAS 5051/8, Current pick-up clamp 50 A VAS 5051/9 (for vehicles from model year 2002)
- ◆ VAG 1527 B Voltage Tester

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◆ VAG1594A connector test  
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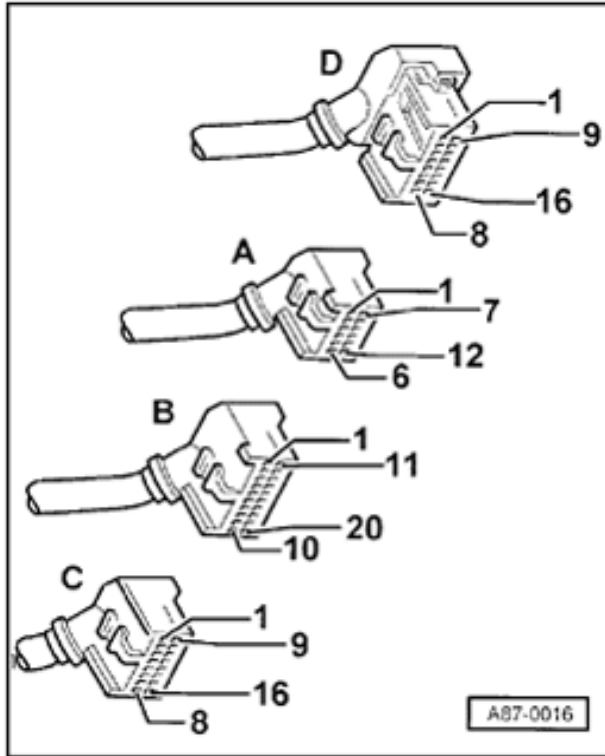


**Note:**

*The adapters from VAG 1598 A test box must not be connected to the A/C Control Head -E87- during the self diagnostic.*

**Connect VAG 1598 A test box to wiring harness of A/C Control Head -E87-**

- Switch ignition off.
  
- Remove A/C Control Head -E87- ⇒ [Page 87-96](#) .



- Connect adapter cable VAG 1598/11 and VAG 1598/12 to disconnected harness connectors of A/C Control Head -E87-.

**Notes:**

- ◆ Do not connect A/C Control Head -E87- (except on requested test steps).
- ◆ To carry out the measurement, connect the VAG 1598 A to relevant adapter lead.
- ◆ The socket assignment on VAG 1598/12 adapter corresponds exactly to the terminal assignment on the A/C Control Head -E87-.
- ◆ The socket assignment on VAG 1598/11 adapter corresponds exactly to the terminal assignment on the A/C Control Head -E87-.

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## Checking

### Notes:

- ◆ *The electrical testing on vehicles up to model year 2001 is described with VAG 1526 multi-meter. The electrical testing on these vehicles can also be carried out using the VAS 5051 Vehicle Diagnostic, Testing and Information System.*
  
- ◆ *The electrical testing on vehicles from model year 2002 is described with the VAS 5051 Vehicle Diagnostic, Testing and Information System. The electrical testing can also be carried out using VAG 1526 multi-meter, except for several test steps.*
  
- ◆ *With model year change 2001 to 2002 the A/C system control will be changed over. For Audi allroad, the change-over of the A/C system is not performed with the model year change 2001 to 2002, instead it is a running change (implementation open, for vehicles with 4.2 Liter engine with start of production).*

⇒ *Parts Catalog*

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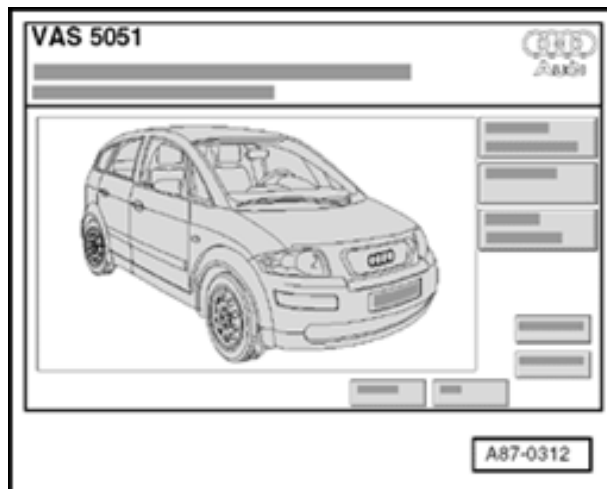


***Test requirement:***

- All fuses OK:

⇒ *Electrical Wiring Diagrams, Troubleshooting & Component Locations*

- Adapter cable VAG 1598/11 and VAG 1598/12 connected to disconnected harness connectors of A/C Control Head -E87-.



- Select operating mode "Test instrument" on VAS 5051 Vehicle Diagnostic, Testing and Information System



- Select during variable test steps the required test instrument types, by clicking the relevant button on VAS 5051 display.
- Adjust on VAG 1526 multi-meter the type of test instrument at variable test steps.

#### Electrical testing:

- for vehicles up to model year 2001 ⇒ [Page 01-259](#) .
- for vehicles from model year 2002 ⇒ [Page 01-288](#) .

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## Socket assignment for VAG 1598 test box with adapter lead VAG 1598/11

### Notes:

- ◆ *The terminal assignment for connectors A and B on the VAG 1598/11 adapter does not match the socket assignment on the test box.*
- ◆ *The terminal assignment for connector -C- on the VAG 1598/11 adapter matches exactly the socket assignment on the test box.*
- ◆ *The terminal assignment for connector -D- on the VAG 1598/12 adapter matches exactly the socket assignment on the test box.*
- ◆ *Because the connectors for the A/C Control Head -E87- are distributed over two adapter leads ((VAG 1598/11 and 12) there is no Ground (GND) connection for testing purposes when only adapter lead VAG 1598/11 is connected. Therefore, for various steps of the electrical test it is necessary to use a suitable Ground connection point on the body of the car, or to use a second VAG 1598 test box. With the VAG 1598/12 adapter the Ground (GND) connection is through terminal 14).*



<b>Connector A</b>	<b>VAG 1598 Socket</b>	<b>Connector B</b>	<b>VAG 1598 Socket</b>	<b>Connector C</b>	<b>VAG 1598 Socket</b>
1	41	1	21	1	1
2	42	2	22	2	2
3	43	3	23	3	3
4	44	4	24	4	4

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Connector A	VAG 1598 Socket	Connector B	VAG 1598 Socket	Connector C	VAG 1598 Socket
5	45	5	25	5	5
6	46	6	26	6	6
7	47	7	27	7	7
8	48	8	28	8	8
9	49	9	29	9	9
10	50	10	30	10	10
11	51	11	31	11	11
12	52	12	32	12	12
		13	33	13	13