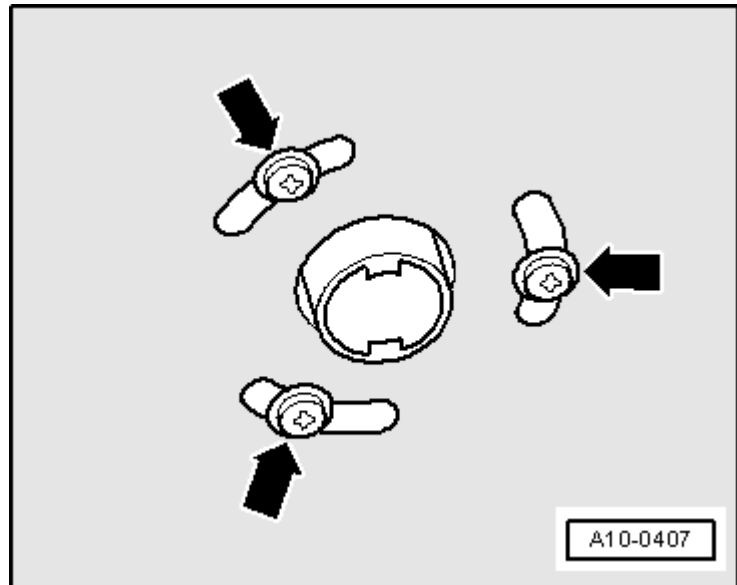


## Checking multi-function switch -F125- with 8-pin connector

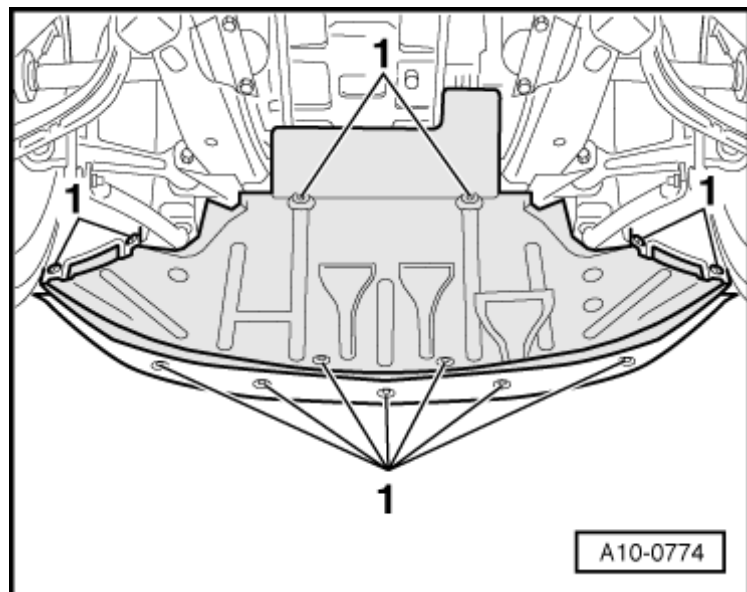


### Note

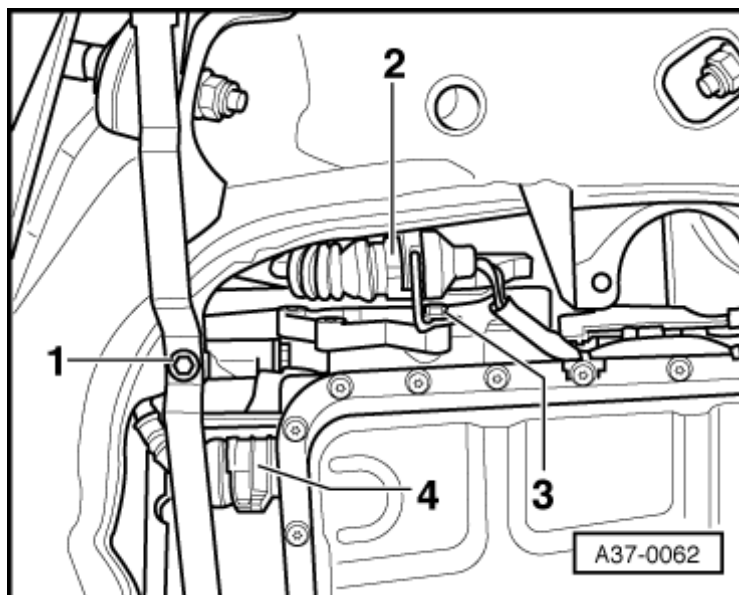
- ◆ Read measured value block 004 for multi-function switch before performing electrical check.
- ◆ Make sure that selector lever cable is properly adjusted →Automatic gearbox 01L, four-wheel drive; Rep. Gr.37.
- On vehicles fitted with auxiliary heater, remove screws -arrows- securing exhaust pipe of auxiliary/ additional heater to noise insulation.



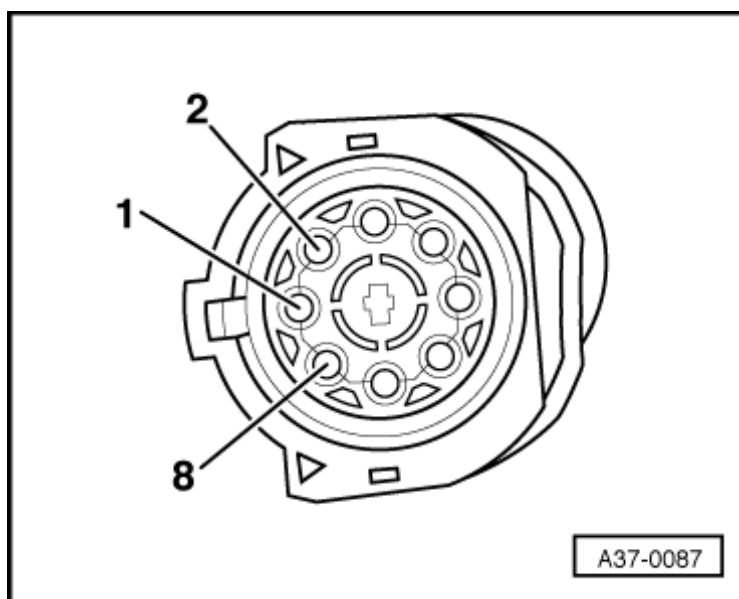
- Release fasteners -arrows- and detach noise insulation.



- Unplug connector -2- of multi-function switch -F125- at front left of gearbox.



Contact assignment at 8-pin connector of multi-function switch -F125-



**Test step No. 1**

Contacts on -F125-	Items tested	Test conditions and additional steps	Specification	Fault rectification if readout does not match specification
1 + 2	Multi-function switch -F125-	<ul style="list-style-type: none"> <li>• Ignition switched off</li> <li>• Switch to resistance measuring range</li> </ul>	Less than 1 Ω	<ul style="list-style-type: none"> <li>- Check connector at multi-function switch for contact corrosion, moisture or loose fitting</li> <li>- Check selector lever cable adjustment →Automatic gearbox 01L, four-wheel drive; Rep. Gr.37</li> </ul>
		<ul style="list-style-type: none"> <li>- Selector lever in "P", "N", "D"</li> </ul>		
1 + 3		<ul style="list-style-type: none"> <li>- Selector lever in "R", "N", "4"</li> </ul>	Less than 1 Ω	

1 + 4	– Selector lever in “P”, “D”, “3”, “2”	$\infty \Omega$	– Renew multi-function switch →Automatic gearbox 01L, four-wheel drive; Rep. Gr.37
	– Selector lever in “N”, “D”, “4”, “2”	Less than 1 $\Omega$	
	– Selector lever in “P”, “R”, “3”	$\infty \Omega$	
1 + 5	– Selector lever in “D”, “4”, “3”	Less than 1 $\Omega$	
	– Selector lever in “P”, “R”, “N”, “2”	$\infty \Omega$	

**Test step No. 2**

Contacts on -F125-	Items tested	Test conditions and additional steps	Specification	Fault rectification if readout does not match specification
6 + 7	P/N signal from multi-function switch -F125-	<ul style="list-style-type: none"> <li>Ignition switched off</li> <li>Switch to resistance measuring range</li> </ul> – Selector lever in “R”, “D”, “4”, “3”, “2”	$\infty \Omega$	– Check connector at multi-function switch for contact corrosion, moisture or loose fitting – Check selector lever cable adjustment →Automatic gearbox 01L, four-wheel drive; Rep. Gr.37 – Renew multi-function switch →Automatic gearbox 01L, four-wheel drive; Rep. Gr.37
		– Selector lever in “P”, “N”	Less than 1 $\Omega$	

**Test step No. 3**

Contacts on -F125-	Items tested	Test conditions and additional steps	Specification	Fault rectification if readout does not match specification
1 + 8	Reversing light signal from multi-function switch - F125-	<ul style="list-style-type: none"> <li>Ignition switched off</li> <li>Switch to resistance measuring range</li> </ul> – Selector lever in “P”, “N”, “D”, “4”, “3”, “2”	$\infty \Omega$	– Check connector at multi-function switch for contact corrosion, moisture or loose fitting –
		– Selector lever in “R”	Less than 1 $\Omega$	

			<p>Check selector lever cable adjustment → Automatic gearbox 01L, four-wheel drive; Rep. Gr.37</p> <p>– Renew multi-function switch → Automatic gearbox 01L, four-wheel drive; Rep. Gr.37</p>
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**Checking voltage supply of multi-function switch**

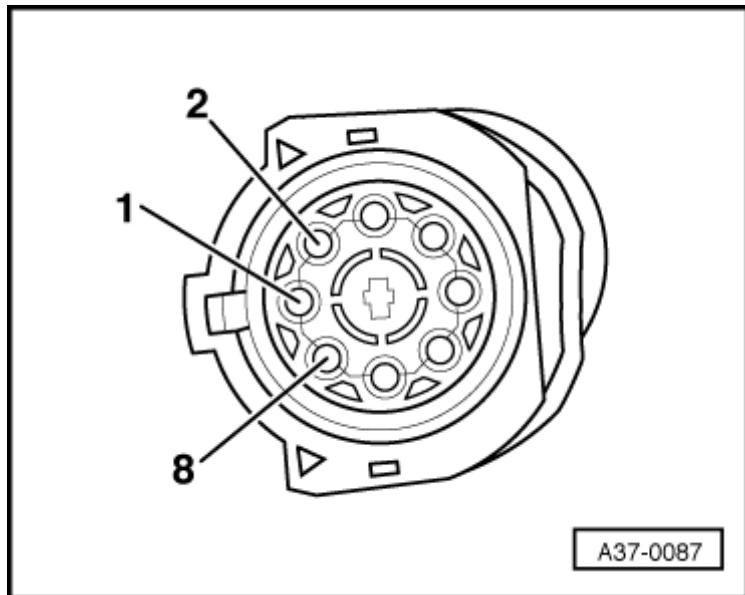
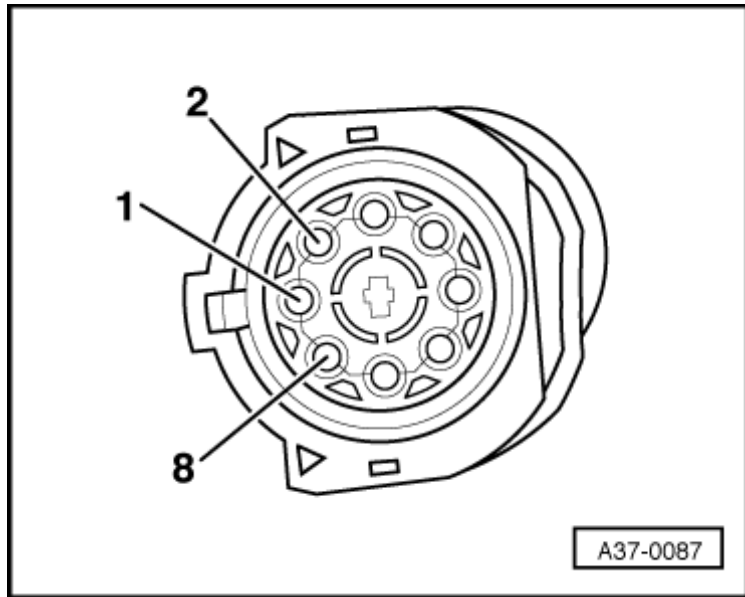
- Connect multimeter for voltage measurement between contacts -1- and -6- of the 8-pin connector.
- Switch on ignition.
- Specification: approx. battery voltage.

If readout does not match specification:

- Repair wiring → [Current flow diagrams](#), [Electrical fault finding and Fitting locations](#).

**Checking wiring between 8-pin connector for multi-function switch and gearbox control unit**

- Connect adapter -V.A.G 1598/20- (test box) to automatic gearbox control unit -J217- → [Chapter](#).
- Connect multimeter for resistance measurement between contacts on the 8-pin connector and the sockets on adapter -V.A.G 1598/20- (test box), as shown in the following table.



Connector Contact	Adapter -1598/20- (test box) Socket	Specification
1	54 and 55	Less than 1.5 Ω

2	36	Less than 1.5 $\Omega$
3	8	Less than 1.5 $\Omega$
4	37	Less than 1.5 $\Omega$
5	9	Less than 1.5 $\Omega$
6	6, 34 and 28 if necessary	Less than 1.5 $\Omega$
7	→ Anchor, Test step No. 2	
8	→ Anchor, Test step No. 3	

**Note**

- ◆ *If readout does not match specification, rectify open circuit in wiring according to current flow diagram and check connector for contact corrosion, moisture and leaks.*
- ◆ *If readout obtained in this wiring check matches specification, the multi-function switch -F125- must be renewed → Automatic gearbox 01L, four-wheel drive; Rep. Gr.37.*