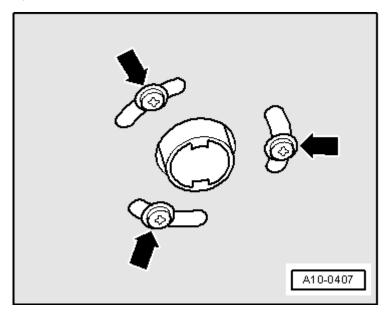
Checking multi-function switch -F125- with 10-pin connector

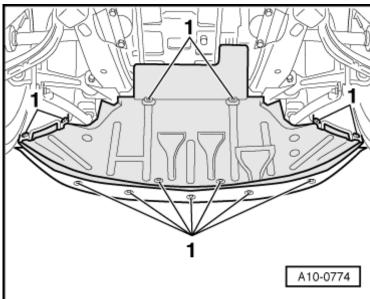


Note

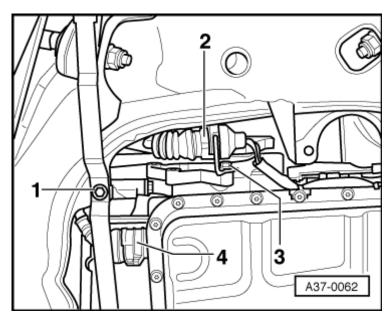
- Read "measured value block 004" for multi-function switch before performing electrical check.
- Make sure that selector lever cable is properly adjusted →Automatic gearbox 01L, four-wheel drive; Rep. Gr.37.
- On vehicles fitted with auxiliary heater, remove screws -arrows- securing exhaust pipe of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



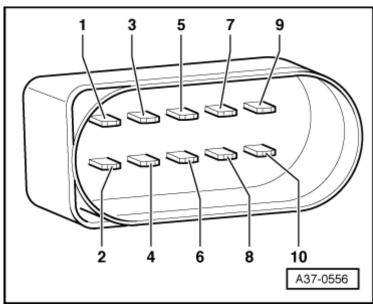
 Release fasteners -arrows- and detach noise insulation.



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



Contact assignment at 10-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-	Ignition switched offSwitch to resistance measuring range		
		Selector lever in "P", "N", "D"	Less than 1 Ω	Check connector at multi- function switch for contact corrosion, moisture or loose
		Selector lever in "R","S" or "4", "3", "2"	∞ Ω	fitting - Check selector lever cable
1 + 3		- Selector lever in "R", "N", "S" or "4"	Less than 1 Ω	adjustment →Automatic gearbox 01L, four-wheel drive; Rep. Gr.37

	-	-	Selector lever in "P", "D", "3", "2"	∞ Ω	_	Renew multi-function switch →Automatic gearbox 01L, four -wheel drive; Rep. Gr.37
1 + 4		-	Selector lever in "N", "D", "S" or "4", "2"	Less than 1 Ω		
		-	Selector lever in "P", "R", "3"	∞ Ω	•	
1 + 5		-	Selector lever in "D", "S" or "4", "3"	Less than 1 Ω		
		-	Selector lever in "P", "R", "N", "2"	∞ Ω		

Test step No. 2

Contacts on -F125-	Items tested	Test conditions and additional steps	Specification	Fault rectification if readout does not match specification
9 + 10	P/N signal from multi-function switch -F125-	 Ignition switched off Switch to resistance measuring range Selector lever in "R", "D", "S" or "4", "3", "2" 	∞ Ω	 Check connector at multifunction switch for contact corrosion, moisture or loose fitting Check selector lever cable adjustment →Automatic gearbox 01L, four-wheel
		Selector lever in "P", "N"	Less than 1 Ω	drive; Rep. Gr.37 - Renew multi-function switch →Automatic gearbox 01L, four -wheel drive; Rep. Gr.37

Test step No. 3

Contacts on -F125-	Items tested	Test conditions and additional steps	Specification	Fault rectification if readout does not match specification
7 + 8	Reversing light signal from multi- function switch - F125-	 Ignition switched off Switch to resistance measuring range Selector lever in "P", "N", "D", "S" or "4", "3", "2" 	∞ Ω	Check connector at multi- function switch for contact corrosion, moisture or loose fitting
		Selector lever in "R"	Less than 1 Ω	

			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

Checking voltage supply of multi-function switch

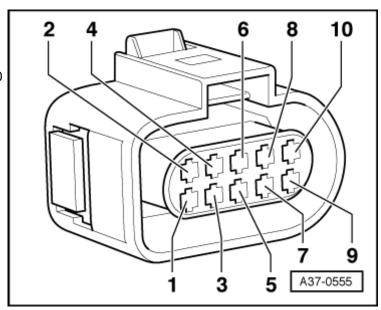
- Connect multimeter for voltage measurement between contacts -1- and -10
 and between contacts -7- and -10- of the 10-pin connector.
- Switch on ignition.
- Specification: approx. battery voltage each time.

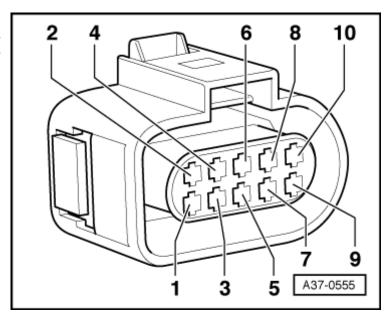
If a readout does not match specification:

Repair wiring → Current flow diagrams,
 Electrical fault finding and Fitting locations.

Checking wiring between 10-pin connector for multi-function switch and gearbox control unit

- Connect multimeter for resistance measurement between contacts on the 10pin connector and the sockets on adapter -V.A.G 1598/20- (test box), as shown in the following table.





Connector Adapter -1598/20-Contact (test box) Socket **Specification**

1	54 and 55	Less than 1.5 Ω			
2	36	Less than 1.5 Ω			
3	8	Less than 1.5 Ω			
4	37	Less than 1.5 Ω			
5	9	Less than 1.5 Ω			
6	Contact vacant				
7	Angher Test step No. 2				
8	→ Anchor, Test step No. 2				
9	→ Anchor, Test step No. 3				
10					



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.