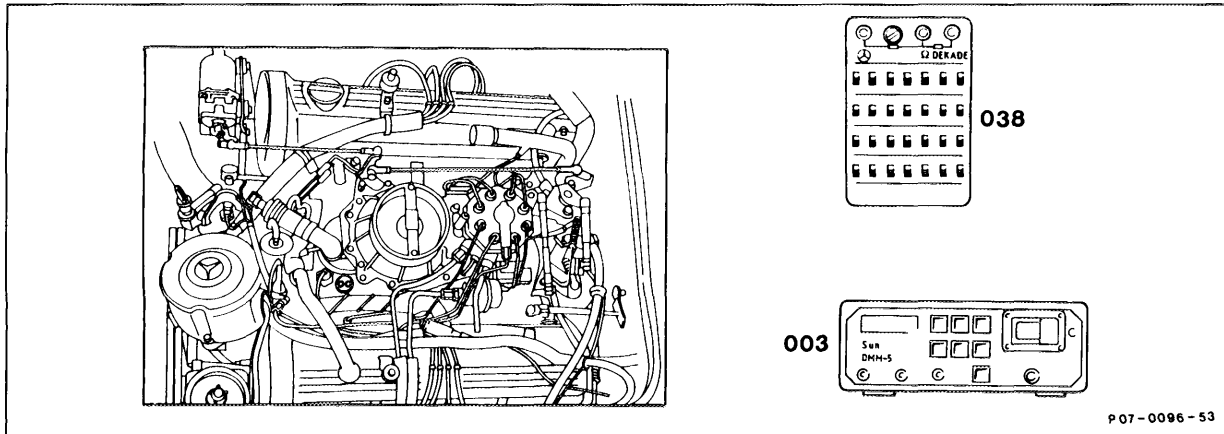


07.3-126 Testing starting valve control



Testers

connect:

Multimeter (003)

Ω decade (038) 124 589 09 63 00.

Starting voltage

test. At least 10 V in approx. 5 seconds.

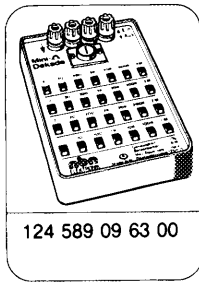
Electric cables between starting valve and
fuel pump relay

test for continuity. Resistance approx. 0 Ω.

Voltage at fuel pump relay

test. Contact 12 (terminal 50) at least 10 V,
contact 2 (terminal TF) 3 – 5 V simulated at
10 kΩ.

Special tools



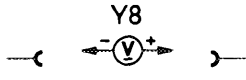
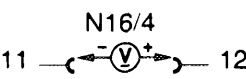


Commercial testers

Multimeter

e. g. Sun, DMM-5

Note

Wiring diagrams (07.3-128).

Test step	Tester/ Test connection	Operation/ Requirement	Spec.	Possible cause/Remedy
1.0 Testing starting valve control		<p>2-pole coolant temperature sensor (B11/2): Create intermediate contacts with Ω decade at coolant temperature sensor (B11/2) and simulate 10 kΩ resistance.</p> <p>4-pole coolant temperature sensor (B11/2): Connect lambda tester to diagnostic socket (X11). Switch on ignition. Readout 70 %. Detach coolant temperature sensor connector (B11/2), readout 30 %. Simulate 10 kΩ with Ω decade at coolant temperature sensor connector (B11/2), establish intermediate contacts diagonally until lambda tester indicates 70 %. Plug protective connector Part No. 102 589 02 21 00 onto diagnostic socket.</p> <p>Start engine.</p>		
1.1 Voltage of terminal 50		Fuel pump relay (N16/4) disconnected.	> 9 V	Open circuit Starter (M1) → N16/4
1.2 Wiring		Fuel pump relay (N16/43) disconnected, connector at starting valve (Y8) disconnected.	< 1 Ω	Open circuit
1.3		Connector at starting valve (Y8) disconnected.	< 1 Ω	Open circuit