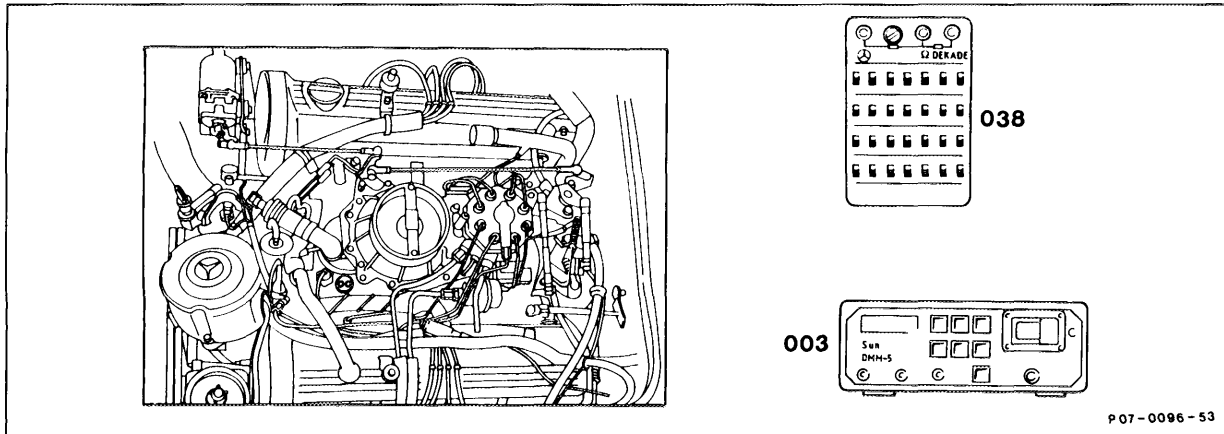
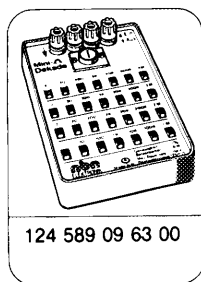


## 07.3-126 Testing starting valve control



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



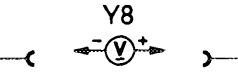
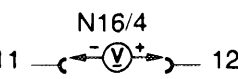


## Commercial testers

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	Y8 	<b>2-pole coolant temperature sensor (B11/2):</b> Create intermediate contacts with $\Omega$ decade at coolant temperature sensor (B11/2) and simulate 10 k $\Omega$ resistance.  <b>4-pole coolant temperature sensor (B11/2):</b> Connect lambda tester to diagnostic socket (X11). Switch on ignition. Readout 70 %. Detach coolant temperature sensor connector (B11/2), readout 30 %. Simulate 10 k $\Omega$ with $\Omega$ 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.  Start engine.	> 10 V approx. 5 s	Fuel pump relay (N16/4), wiring TF signal (07.3-112, test steps 5.0 – 5.2).
1.1 Voltage of terminal 50	N16/4 11  12	Fuel pump relay (N16/4) disconnected.	> 9 V	Open circuit Starter (M1) → N16/4
1.2 Wiring	N16/4 4  Y8	Fuel pump relay (N16/43) disconnected, connector at starting valve (Y8) disconnected.	< 1 $\Omega$	Open circuit
1.3	Y8  W11	Connector at starting valve (Y8) disconnected.	< 1 $\Omega$	Open circuit