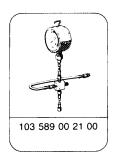


Testers	connect: Pressure measuring device (043) 103 589 00 21 00, Double union (044) 102 589 06 63 00, Multimeter (003), Ω decade (038) 124 589 09 63 00 Test cable (033) 102 589 04 63 00.
Fuel pressures and internal leakage	test (07.3-120).
Starting valve	check for operation and leaks.
Post-start enrichment	test.

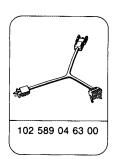
Special tools











Commercial testers

Multimeter	e. g.	Sun, DMM-5
Lambda tester	e. g.	Hermann L 115

Note

Wiring diagrams (07.3-128).

Test step	Test connection	Operation/ Requirement	Specification	Possible cause/ Remedy
1.0 Check operation of starting valve	Detach fuel line at starting valve (arrow). Remove starting valve and reconnect fuel line.	2-pole coolant temperature sensor (B11/2): Connect Ω decade into circuit at coolant temperature sensor (B11/2) and simulate 10 k Ω resistance. 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 k Ω at coolant temperature sensor connector (B11/2) with Ω decade, connect into circuit diagonally until lambda tester indicates 70 %. Hold starting valve in a vessel.		
		Start engine	Starting valve must eject a finely atomized spray.	Test starting valve, starting valve control (07.3-126).
1.1 Test starting valve for leaks		Ignition: OFF Dry off nozzle of starting valve.	Starting valve must not leak.	Renew starting valve.

Testing post-start enrichment

Test data

1 CSt Cata		
Post-start at + 20 °C		5 – 9
End of start	approx. seconds	
Warm-up base value	mA	0

Test step/ Test scope	Test connection	Operation/Requirement	Specification	Possible cause/ Remedy
	Test connection	Operation/Requirement Connect test cable (033) 102 589 04 63 00 to electrohydraulic actuator (Y1) and multimeter. 2-pole coolant temperature sensor (B11/2): Create contacts with Ω decade at coolant temperature sensor (B11/2) and simulate 2.5 k Ω resistance. 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 2.5 k Ω with Ω decade at coolant temperature sensor connector (B11/2), create intermediate contacts diagonally until lambda tester indicates 70 %. Start engine.	refer to table	
				(07.3-121, test step 8), TD/TN signal (07.3-121, test step 10).