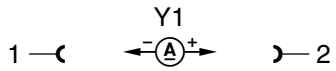
Electrical Test Program – Test (Testing Cold Start)

⇒		Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
1.0				Connect hose “A“ to lower chamber using adaptor (044), connect hose “B“ to upper chamber. (37, Figure 1 or 2) Ignition: **OFF** Connect pressure gauge. Run engine to build up pressure. Turn off engine, check for leaks		⇒ 1.1,
2.0				Ignition: **OFF** Connect test cable (033) to electro-hydraulic actuator (Y1). Cool engine with cooling fan (053) or let stand overnight.		
3.0		Cold start		Engine: **Start**	For fuel pressures see Table I. For current values see Table II.	Test fuel system pressure and internal leakage, 32. 23 ⇒ 10.0 23 ⇒ 11.0 23 ⇒ 13.0 23 ⇒ 14.0

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Test and Adjustment Data

Table I Fuel Pressures

System pressure	with engine cold or at operating temperature	bar	6.2 – 6.4
Lower chamber pressure	with engine at operating temperature	bar	approx. 0.4 [1]
	at idle with coolant temperature < + 20 °C	bar	0.5 [1]
	during deceleration shut-off	bar	Lower chamber pressure equals system pressure.

[1] Observe Preparation for Test, see 22.

Table II Current Values

Engine	Current at EHA with Ignition: ON (mA)	After-start enrichment at an engine coolant temperature of + 20 °C (mA) [1]	After-start enrichment at an engine coolant temp. between 0 and + 20 °C (mA) [1]	After-start enrichment at an engine coolant temp. between 0 and – 20 °C (mA) [1]
104	20	3 – 5 [2]	3 – 45 [3]	38 – 80 [3]
119	75	5 – 8 [2]	5 – 42 [3]	42 – 100 [3]

[1] For resistance substitution unit resistance values, see 23, Table I.

[2] Read value 0 – 8 seconds after startup.

[3] Note the following:
- Read value immediately after startup.
- Selector lever position P/N.
- Throttle valve closed.