#### **Diagnosis - Diagnostic Trouble Code (DTC) Memory**

#### **Preparation for DTC Readout**

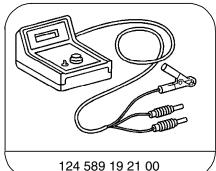
Connect impulse counter scan tool and/or HHT to data link connector (X11/4) according to connection diagram (see section 0).

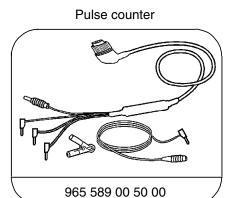
Model 124: yellow wire to socket 14

Models 129, 140, 202: yellow wire to socket 7

Only possible with HHT. Model 210:

#### **Special Tools**





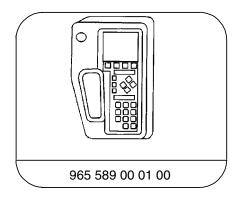
Adapter cable

#### Note:

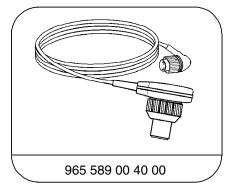
The Test Program is divided into two sections:

- Electronic accelerator with ISC
- Cruise control

According to the diagnosis made, troubleshoot by performing only the related test steps in the particular group.



Hand-Held-Tester



Test cable

11/1

140 589 14 63 00

Adapter

# 6.4 Electronic Accelerator (EA)

### **Diagnosis – Diagnostic Trouble Code (DTC) Memory**

DIC		Possible cause	Test step/Remedy 1)
1		No fault in system	_
2	006 002	EA/CC/ISC control module (N4/1) Safety contact switch (M16/1s1) Stop lamp switch (S9/1) Safety contact switch (M16/1s1)	N4/1 $23 \Rightarrow 5.0, 6.0$ $23 \Rightarrow 4.0$ $23 \Rightarrow 7.0$
	רסס	Cruise control switch (S40) OFF EA/CC/ISC control module (N4/1) Actual value potentiometer (M16/1r2) Starter lock-out/back-up lamp switch (S16/3) (transmission range recognition) Closed throttle position switch (S29/3)	$24 \Rightarrow 1.0$ $N4/1$ $23 \Rightarrow 4.0$ $23 \Rightarrow 12.0, 24 \Rightarrow 3.0$ $23 \Rightarrow 11.0$
	008	Engine speed (TNA) signal Vehicle speed signal (VSS)	23⇒ 14.0 23⇒ 15.0, 16.0
	009 025	Safety relay within EA/CC/ISC control module (N4/1) EA/CC/ISC control module (N4/1) Engine harness	N4/1 N4/1 Check harness wire insulation.
	037	Conditions for activation of EA/CC/ISC actuator (M16/1) not fulfilled.	Conditions: Engine: <b>OFF</b> Transmission range: <b>P/N</b>

<sup>1)</sup> Observe Preparation for Test, see 22.

# 6.4 Electronic Accelerator (EA)

### **Diagnosis – Diagnostic Trouble Code (DTC) Memory**

DIC		Possible cause	Test step/Remedy 1)
3	054, 056 051 048 049 050 051 052 053 055	EA/CC/ISC actuator (M16/1) Reference potentiometer (M16/1r1) (voltage supply) Reference potentiometer (M16/3r1) Actual value potentiometer (M16/3r2) Safety contact switch (M16/3s1) Closed throttle position switch (M16/1s2) Actuator motor (M16/1m1) Magnetic clutch (M16/1k1) Reset not accomplished (actuator adaptation)	$23 \Rightarrow 2.0-10.0$ $23 \Rightarrow 2.0$ $23 \Rightarrow 3.0$ $23 \Rightarrow 4.0$ $23 \Rightarrow 7.0, 8.0$ $23 \Rightarrow 6.0, 8.0$ $23 \Rightarrow 9.0$ $23 \Rightarrow 10.0$ Erase DTC: Ignition: <b>OFF</b> Ignition: <b>ON</b> (for at least 90 seconds). If DTC reappears: EA/CC/ISC actuator (M16/1)
Ч	064	CC switch (S40)	24⇒ 1.0
5	080	Stop lamp switch (S9/1)	24⇒ 2.0
6	096 097	Starter lock-out/backup lamp switch (S16/1)  Not applicable to U.S. version vehicles	23⇒ 12.0, 24⇒ 3.0

<sup>1)</sup> Observe Preparation for Test, see 22.

# 6.4 Electronic Accelerator (EA)

### **Diagnosis – Diagnostic Trouble Code (DTC) Memory**

DIC		Possible cause	Test step/Remedy 1)
٦	112 115, 117	CAN databus:  Message from EA/CC/ISC control module (N4/1) faulty  Reception from engine control module (N3/4) faulty	23⇒ 20.0 N4/1
8	128-130	Left front axle VSS (L6/1) from ASR control module (N30/1)	23⇒ 15.0
9	144	Models 129, 140, 202, 210: Left rear axle VSS (L6/3) from ASR control module (N30/1)  Model 124: Hall-effect speed sensor (B6)	23⇒ 16.0 23⇒ 17.0
10	160	Engine speed signal (TN) from engine control module (N3/4)	23⇒ 14.0
11	176-178, 182 180	Fuel safety shut-off signal to engine control module (N3/4) Closed throttle recognition signal to engine control module (N3/4)	23⇒ 18.0 23⇒ 19.0
14	007 224	CTP switch (S29/3)	23⇒ 11.0
15	240	CAN databus: data exchange with ASR control module (N30/1) implausible	ASR control module (N30/1)

Observe Preparation for Test, see 22.