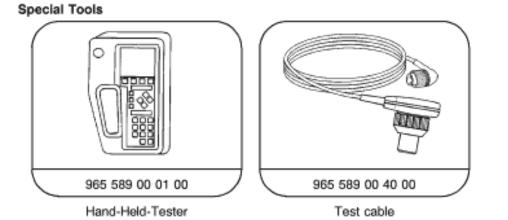
## Diagnosis – Diagnostic Trouble Code (DTC) Memory

## **Test Preparation for DTC Readout**

1. Connect Hand-Held Tester (HHT) to data link connector (X11/4) according to connection diagram (see section 0).

- 2. Ignition: ON.
- Read DTC memory for transmission control module (N15/1). (if no DTC's are stored im DTC memory which are relative to the complaint, perform entire Electrical Test Program 23



## Diagnosis – Diagnostic Trouble Code (DTC) Memory

DTC	Possible cause	Test step/Remedy 1)
-	No fault in system	In case of complaint: 23 (entire test)
200	Engine control module (N3/4) does not match TCM (N15/1)	Reset and reactivate engine control module: See DM, Engines, Vol. 2, section 1.1 11
003	Transmission overload protection switch 4GR/5GR	$23 \Rightarrow 9.0$ Read out DTC memory for DI control module (N1/3) and Engine control module (N3/4): See DM, Engines, Vol. 2, section 5.2 to 5.3 11 or 1.1 11
004	CAN data line from EA/CC/ISC control module (N4/1) distorted	$23 \Rightarrow 10.0$ Read out DTC memory for EA/CC/ISC control module (N4/1) See DM, Engines, Vol. 3, section 6.2 to 6.4 11
005	CAN data line from DI control module (N1/3) or HFM-SFI control module (N3/4) distorted	$23 \Rightarrow 10.0$ Read out DTC memory for DI control module (N1/3) and Engine control module (N3/4): See DM, Engines, Vol. 2, section 5.2 to 5.3 11 or 1.1 11

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

## Diagnosis – Diagnostic Trouble Code (DTC) Memory

DTC	Possible cause	Test step/Remedy 1)
006	CAN data line distorted	$23 \Rightarrow 10.0.$ Read out DTC memory for EA/CC/ISC control module (N4/1): DM, Engines, Vol.3, section 6.2 to 6.4 11
		Read out DTC memory for DI control module (N1/3) and Engine control module (N3/4): DM, Engines, Vol. 2, section 5.2 to 5.3 12 or 1.1 12
		Read out DTC memory for ABS/ASR or ASR/SPS control module (N30/1 or 47-1): DM, Chassis and Drivetrain, Vol. 2, section 5.2 12 Vol. 3, section 9.1 and 9.3 12
רסם	Valve block control valve (Y3/1y2), open circuit orTCM (N15/1)	23⇒ 4.0 Replace N15/1
008	TCM (N15/1)	Replace N15/1
009 2)	Valve block control valve (Y3/1y2)	23⇒4.0
010	Valve block control valve (Y3/1y2), short circuit	23⇒4.0

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

<sup>2)</sup> If DTC 9 is displayed, it may be attributable to previous repair work done on the vehicle. For example, the valve block connector (Y3/1x1) on the transmission was not connected/reconnected while the engine was idling > 1000 rpm. Clear DTC 9 by using HHT. Start engine and idle at > 1000 rpm for approximately 10 seconds, check DTC with HHT, if DTC 9 reappears, see 23  $\Rightarrow$  9.0.