

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**.
3. Read DTC memory for transmission control module (N15/1).
(if no DTC's are stored in DTC memory which are relative to the complaint, perform entire Electrical Test Program 23)

Special Tools



965 589 00 01 00


Hand-Held-Tester



965 589 00 40 00


Test cable

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DTC 	Possible cause	Test step/Remedy ¹⁾
–	No fault in system	In case of complaint: 23 (entire test)
002	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⇒ 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⇒ 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⇒ 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

1) Observe Preparation for Test, see 22.

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DTC 	Possible cause	Test step/Remedy ¹⁾
006	CAN data line distorted	<p>23⇒ 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</p> <p>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</p> <p>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</p>
007	Valve block control valve (Y3/1y2), open circuit orTCM (N15/1)	<p>23⇒ 4.0 Replace N15/1</p>
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

1) Observe Preparation for Test, see 22.

2) 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 ⇒ 9.0.