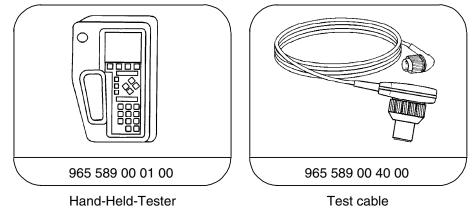
Diagnosis - Diagnostic Trouble Code (DTC) Memory

Preparation for DTC Readout

- 1. Review section 0 and 21, 22, 23
- 2. Connect Hand-Held Tester (HHT) to data link connector (X11/4) according to connection diagram (see section 0).
- 3. Ignition: ON
- 4. Read out DTC memory for the ETS, ME-SFI and ETC control modules.
- 5. Perform nominal/actual values comparison.
- 6. Perform activations.
- 7. Follow-up and repair all displayed DTCs.
- 8. After successful repairs, erase all DTCs.

Special Tools



• DTC readout is no longer possible using the impulse counter scan tool.

Diagnosis - Diagnostic Trouble Code (DTC) Memory

DTC	Possible cause	Test step/Remedy 1)
_	No fault in system	In case of complaint: 23 (entire test).
C 1000	ETS/SPS control module (N47-2)	N47-2
C 1010	Battery voltage too low, circuit 15	23 ⇒ 1.0
C 1015	Battery voltage too high, circuit 15	23 ⇒ 1.0
C 1020	CAN communication faulty overall	Wiring, $23 \Rightarrow 3.0$
C 1022	CAN communication with engine control module (ME-SFI) (N3/10) interrupted	Read out DTC's from (N3/10).
C 1024	CAN communication with transmission control module (N15/3) interrupted	Read out DTC's from (N15/3).
C 1029	CAN communication with All-Activity control module (AAM) (N10) interrupted	Read out DTC's from (N10).
C 1030	CAN communication with Transfer case control module (N78) interrupted	Read out DTC's from (N78).
C 1100	Left front axle VSS sensor (L6/1), open circuit Left front axle VSS sensor (L6/1), loose connection Left front axle VSS sensor (L6/1), implausible ²⁾	23 ⇒ 6.0
כ ווםו	Right front axle VSS sensor (L6/2), open circuit Right front axle VSS sensor (L6/2), loose connection Right front axle VSS sensor (L6/2), implausible 2)	23 ⇒ 7.0

¹⁾ Observe Preparation for Test, see 22.

2) Rotor with incorrect tooth count, dirt accumulation on or damaged rotor, incorrect rear axle ratio, wrong wheel or tire size. If DTC appears only after repair work, it was caused by applying the brakes or driving vehicle on a dynamometer, erase DTC.

Diagnosis - Diagnostic Trouble Code (DTC) Memory

DTC	Possible cause	Test step/Remedy 1)
C 1102	Left rear axle VSS sensor (L6/3), open circuit Left rear axle VSS sensor (L6/3), loose connection Left rear axle VSS sensor (L6/3), implausible ²⁾	23 ⇒ 8.0
C 1103	Right rear axle VSS sensor (L6/4), open circuit Right rear axle VSS sensor (L6/4), loose connection Right rear axle VSS sensor (L6/4), implausible ²⁾	23 ⇒ 9.0
C 1200	Stop lamp switch (S9/1) short/open circuit S9/1 implausible	Wiring, S/91
C 1210	Brake fluid level switch (S11) short/open circuit	Wiring, S/11
C 1300	Left front axle solenoid valve (hold) (A7/3y6), short/open circuit	23 ⇒ 11.0
C 1301	Left front axle solenoid valve (release) (A7/3y7), short/open circuit	23 ⇒ 12.0
C 1302	Right front axle solenoid valve (hold) (A7/3y8), short/open circuit	23 ⇒ 13.0
C 1303	Right front axle solenoid valve (release) (A7/3y9), short/open circuit	23 ⇒ 14.0
C 1304	Left rear axle solenoid valve (hold) (A7/3y10), short/open circuit	23 ⇒ 15.0

¹⁾ Observe Preparation for Test, see 22.

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Diagnosis - Diagnostic Trouble Code (DTC) Memory

DTC	Possible cause	Test step/Remedy 1)
C 1305	Left rear axle solenoid valve (release) (A7/3y11), short/open circuit	23 ⇒ 16.0
C 1306	Right rear axle solenoid valve (hold) (A7/3y12), short/open circuit	23 ⇒ 17.0
ר 1301	Right rear axle solenoid valve (release) (A7/3y13), short/open circuit	23 ⇒ 18.0
C 1314	Solenoid valves (A7/3), voltage supply	$23 \Rightarrow 10.0$ $23 \Rightarrow 2.0$
C 1316	Pressure circuit 1 switchover solenoid valve (A7/3y24) short/open circuit	23 ⇒ 19.0
ר ופו ז	Pressure circuit 1 vacuum solenoid valve (A7/3y26)	23 ⇒ 21.0
C 1318	Pressure circuit 2 switchover solenoid valve (A7/3y25) short/open circuit	23 ⇒ 20.0
C 1319	Pressure circuit 2 vacuum solenoid valve (A7/3y27) short/open circuit	23 ⇒ 22.0
C 1401	High pressure return pump (A7/3m1), short/open circuit High pressure return pump (A7/3m1), will not shut off	23 ⇒ 5.0
C 1512	Brakes overheated	Brakes were momentarily overloaded, erase DTC.

¹⁾ Observe Preparation for Test, see 22.