Diagnosis – Diagnostic Trouble Code (DTC) Memory

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- The A/C pushbutton control module (N22) has DTC memory and data output. The diagnostic trouble codes and data are displayed via the temperature display window. The stored DTC's will remain in memory even with the vehicle battery disconnected.
- The DTC memory differentiates continuosly between current and intermittent faults.
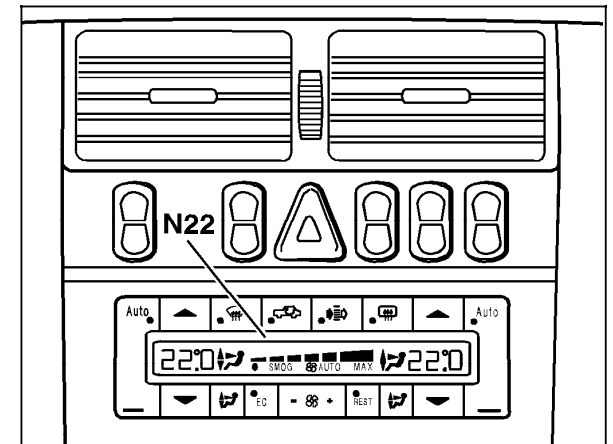- All DTC's can also be read with the Hand-Held Tester (HHT).

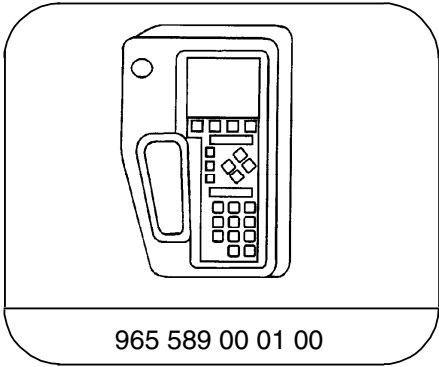Figure 1   P83.30-0289-01

Diagnosis – Diagnostic Trouble Code (DTC) Memory

Preparations for DTC Readout

1.   Connect HHT, see section 0 and readout DTC's.

2.   Review 11, 12, 13, 14, 15, 20, 21, 22, 31,
        32, 41, 42

3.   Ignition: **ON**

4.   Temperature selector left ″HI″, right ″LO″.

5.   Within 20 seconds press REST and EC simultaneously for more than
        5 seconds.

6.   The LED in 🚗 flashes and the display shows ″di A″.

7.   Press AUTO repeatedly until all DTC's (refer to DTC table) are
        displayed. Record each DTC as it is displayed.

8.   Each malfunction (short circuit, open circuit, etc.) has a specific DTC
        asigned to it.
        The letter ″E″ (Error) is displayed in the left of the display and the DTC
        is displayed in the right of the display. By pressing the right AUTO
        button the next DTC stored in memory will be displayed.

9.   To erase: Only possible after all DTC's are read out.
        Simultaneously press both AUTO > 2 secs.″d″ will be displayed in the
        left side of the display window and ″FF″ on the right side.
        To cancel erase: By pressing AUTO the current faults will appear again.

10.   Set temperature selector to normal setting.
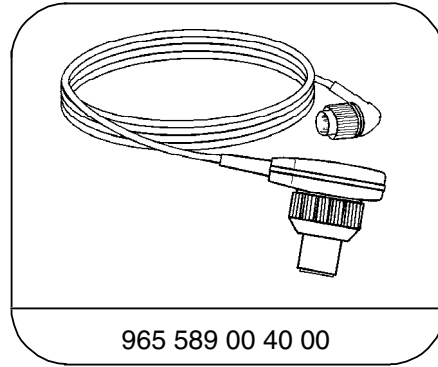
11.   Turn ignition **OFF** to end test.

Diagnosis – Diagnostic Trouble Code (DTC) Memory

Special Tools

965 589 00 01 00	965 589 00 40 00
Hand-Held-Tester	Test cable

Diagnosis – Diagnostic Trouble Code (DTC) Memory

Diagnostic trouble code (DTC) N22		Possible cause	Test step/Remedy [1]
-	-	No malfunction in system	–
B1226	003	In-car temperature sensor (B10/4)	23⟹ 4.0
B1227	004	Outside temperature indicator temperature sensor (B14)	23⟹ 21.0
B1228	005	Heater core temperature (B10/1)	23⟹ 7.0
B1229	006	Heater core temperature (B10/1)	23⟹ 8.0
B1230	007	Evaporator temperature sensor (B10/6)	23⟹ 5.0
B1231	008	ECT sensor (B11/4)	23⟹ 21.0
B1232	009	Refrigerant pressure sensor (B12)	23⟹ 9.0
B1233	010	Refrigerant temperature sensor (B12/1)	23⟹ 6.0
B1234	011	Sun sensor (B32)	23⟹ 10.0
B1235	012	Emissions sensor (B31)	23⟹ 12.0
B1241	013	Refrigerant fill	23⟹ 9.0, 6.0
B1416	014	Coolant circulation pump (M13)	23⟹ 15.0

[1]   Observe Preparation for Test, see 22.

Diagnosis – Diagnostic Trouble Code (DTC) Memory

Diagnostic trouble code (DTC) N22		Possible cause	Test step/Remedy [1]
B1417	019	Duovalve (Y21y1), left	23⇒ 16.0
B1418	020	Duovalve (Y21y2), right	23⇒ 16.0
B1419	021	Electromagnetic clutch (A9k1)	23⇒ 19.0
B1420	022	Idle speed increase	-
B1421	023	Pulse module (N65)	23⇒ 13.0
B1422	024	Series interface (K1) connection to instrument cluster (A1)	23⇒ 21.0
B1423	025	Switchover valve block (Y11)	23⇒ 18.0
B1424	026	Activated charcoal filter actuator (A32m2) open	23⇒ 20.0
B1425	027	Activated charcoal filter actuator (A32m2) closed	23⇒ 20.0
B1432	028	Non-USA DTC	-
B1459	029	Series interface (K2) connection to instrument cluster (A1)	23⇒ 23.0
B1462	030	Wide open throttle (WOT) position signal: diesel engines	-

[1]   Observe Preparation for Test, see 22.