

Diagnosis – Diagnostic Trouble Code (DTC) Memory



- 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 between current and intermittent faults.
- Numerous DTC's can also be read with the Hand-Held Tester (HHT).

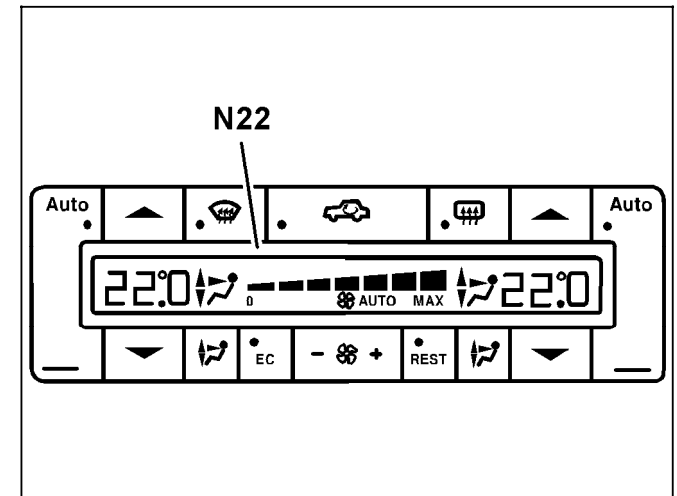




Figure 1

P83.40-2110-01

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Preparations for DTC Readout

1. Review 11, 12, 13, 14, 15, 21, 22, 31, 32, 41,
2. Ignition: **ON**
3. Temperature selector: left: "HI"; right: "LO"
4. Ignition: **OFF**
5. Ignition: **ON**
6. Within 20 seconds press **REST** and **EC** simultaneously for more than 5 seconds.
7. The LED in  flashes and the display shows "di R".
8. Press **AUTO** repeatedly until all DTC's are displayed. Record each DTC as it is displayed.
9. Each fault (short circuit, open circuit) is assigned a DTC. Thus in the left display: "E1" appears, and the right display indicates the DTC. The current faults (refer to table) are displayed first, next, the intermittent failures (e.g. 45 °5) are displayed in the display window next to the  symbol. By pressing the right **AUTO** the next DTC is displayed.

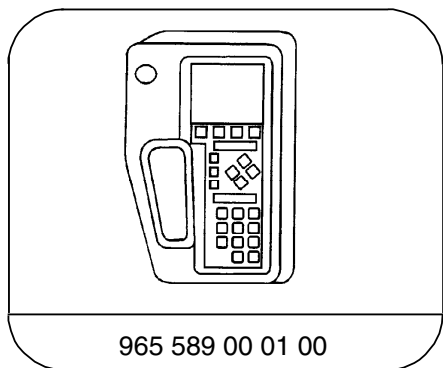
10. To erase: Can only be performed after all faults have been readout. Press left **AUTO** and right **AUTO** buttons simultaneously for more than 2 seconds and the display shows:
left: "d" and right: "FF".
To cancel erase: By pressing the left **AUTO** button, the current faults will appear again.
11. Select a base temperature setting.
12. Turn ignition **OFF**, to end test.



Due to instrument cluster (IC) series interface, DTC's may be stored in IC memory, therefore readout and erase DTC's from IC memory.

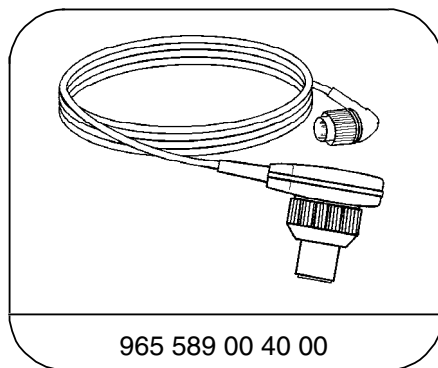
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Special Tools



965 589 00 01 00



Hand-Held-Tester



965 589 00 40 00


Test cable

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Diagnostic trouble code (DTC)	Possible cause	Test step/Remedy ¹⁾
N22 		
-	No malfunction in system	—
B1226 003	In-car temperature sensor (B10/4)  Model 208.465: With the soft top down, the power soft top control module (N52) will override B10/4 and in this case, the DTC B1226 will not be stored in memory.	23⇒ 4.0
B1227 004	Outside temperature indicator temperature sensor (B14)	23⇒ 11.0
B1228 005	Heater core temperature sensor (B10/1) (left)	23⇒ 7.0
B1229 006	Heater core temperature sensor (B10/1) (right)	23⇒ 7.0
B1230 007	Evaporator temperature sensor (B10/6)	23⇒ 5.0
B1231 008	ECT sensor (B11/4)	23⇒ 11.0
B1232 009	Refrigerant pressure sensor (B12)	23⇒ 9.0
B1233 010	Refrigerant temperature sensor (B12/1)	23⇒ 6.0
B1241 013	Refrigerant fill level	23⇒ 9.0, 6.0
B1416 014	Coolant circulation pump (M13)	23⇒ 15.0
B1417 019	Left-side water valve (Y21y1)	23⇒ 16.0
B1418 020	Right-side water valve (Y21y2)	23⇒ 16.0

1) Observe Preparation for Test, see 22.

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Diagnostic trouble code (DTC)	Possible cause	Test step/Remedy ¹⁾
N22 		
B1419 021	Electromagnetic clutch (A9k1)	23⇒ 18.0
B1420 022	Idle speed increase	-
B1421 023	AIR control module (N65/1)	23⇒ 12.0
B1422 024	Serial interface K1	23⇒ 11.0, 21 (CAN)
B1423 025	Switchover flap (Y11)	23⇒ 19.0
B1432 028	Non-USA Test Step	-
B1459 029	Serial interface K2	23⇒ 12.0, 21 (CAN)

¹⁾ Observe Preparation for Test, see 22.