



Mercedes-Benz

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Diagnostic Info

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Diagnostic Manual, Climate Control, Volume 1

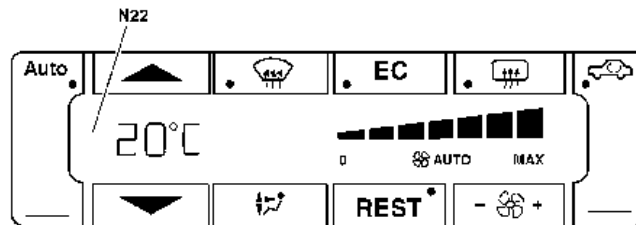
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LOCATION: 3.8 Air Conditioning (A/C) > 15 Diagnosis - Diagnostic Trouble Code (DTC) Memory

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.
- ◆ All DTC's can also be read with the Hand-Held Tester (HHT).



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Preparations for DTC Readout

1. Review □ 11 , □ 12 , □ 14 , □ 15 , □ 20 , □ 21 , □ 22 , □ 31 , □ 32 , □ 41
2. Ignition: **ON**
3. Temperature selector "LO".
4. Within 20 seconds press **REST** and simultaneously for more than 5 seconds.
5. The LED in flashes and the display reads "dIa".
6. Press **AUTO** repeatedly until all DTC's are displayed. Record each DTC as it is displayed. 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. **End °** will appear after the last DTC is displayed. Press **AUTO** again, **dEL** (delete, erase) will be displayed.
7. To erase: Press and simultaneously for more than 5 seconds and the display shows "--". To cancel erase: By pressing **AUTO** the current faults will appear again.
8. Turn ignition **OFF** to end test.



Due to instrument cluster (IC) serial interface K1, K2; DTC's may be stored in IC memory, therefore readout and erase DTC memory.

Special Tools




965 589 00 01 00

Hand-Held-Tester



965 589 00 40 00

Test cable

Diagnostic trouble code (DTC) N22 	Possible cause	Test step/Remedy 1)
--	No malfunction in system	-
226B1226	In-car temperature sensor (B10/4)	□ 23 ⇒ 4.0
227B1227	Outside temperature indicator temperature sensor (B14)	□ 23 ⇒ 10.0
228B1228	Left heater core temperature sensor (B10/2)	□ 23 ⇒ 7.0
230B1230	Evaporator temperature sensor (B10/6)	□ 23 ⇒ 5.0
231B1231	ECT sensor (B11/4)	□ 23 ⇒ 10.0
232B1232	Refrigerant pressure sensor (B12)	□ 23 ⇒ 8.0
233B1233	Refrigerant temperature sensor (B12/1)	□ 23 ⇒ 6.0
241B1241	Refrigerant fill	□ 23 ⇒ 6.0 , 8.0
416B1416	Coolant circulation pump (M13)	□ 23 ⇒ 18.0
417B1417	Automatic A/C monovalve (Y19)	□ 23 ⇒ 19.0
419B1419	Electromagnetic clutch (A9k1)	□ 23 ⇒ 21.0
420B1420	Idle speed increase	-
421B1421	AIR control module (N65/1)	□ 23 ⇒ 16.0
422B1422	Serial interface K1	□ 23 ⇒ 10.0
423B1423	Switchover valve block (15 connection multiplex) (Y11)	□ 23 ⇒ 22.0
459B1459	Serial interface K2	□ 23 ⇒ 23.0

1) Observe Preparation for Test, see □ 22 .

