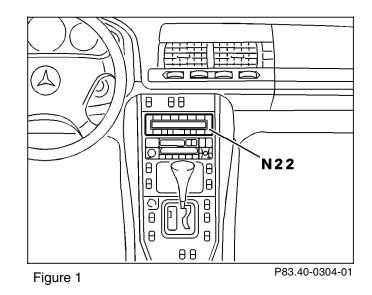
3.6 Air Conditioning (A/C)

Diagnosis – Diagnostic Trouble Code 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 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).
- Connect HHT as indicted in section 0.



Diagnosis – Diagnostic Trouble Code Memory

Preparation for Test

- 1. Ignition: ON
- 2. Left display "HI", right display "LO".
- 3. Within 20 secs., press **REST** and **EC** simultaneously for > 5 secs.
- 4. The LED in 🖾 flashes and the display window reads OFF.
- 5. Press right $\square \square \square > 1$ sec. If there are no DTC's: E is displayed in the left side of the display window and FF is displayed in the right side. If DTC's are stored in memory: Ebl is displayed in the left side of the display window and the DTC (e.g. $\Im B$) is displayed in the right side (record each DTC as it is displayed).
- Each malfunction (short circuit, open circuit, etc.) has a specific DTC (the DTC is displayed in the right side of the display window, Ebl is displayed in the left side).
 By pressing Auto the next DTC is displayed (see table).

- 7. To Erase: (all DTC's must first be read out) press right and left auto
 2 secs., d will be displayed in the left side of the display window and FF in the right side.
 - To cancel erase: press right , the current faults will appear again (compare to DTC readout recorded earlier).

Delete DTC's as often as necessarry until E is displayed in the left side of the display window and FF is displayed in the right side.

- 8. Set temperature selector to normal setting.
- 9. Ignition **OFF** to end test.

3.6 Air Conditioning (A/C)

Diagnosis – Diagnostic Trouble Code Memory

Display code in N22 window		Possible cause	Test step/Remedy 1)
FF	-	No malfunction in system	-
026	81026	CAN communication with rear A/C	Wiring
226	81552	In-car temperature sensor (B10/4)	23⇒ 4.0
752 F	81227	Outside temperature indicator temperature sensor (B14)	23⇒ 10.0
228	81558	Left heater core temperature sensor (B10/2)	23⇒7.0
229	81553	Right heater core temperature sensor (B10/3)	23⇒ 8.0
230	81530	Evaporator temperature sensor (B10/6)	23⇒ 5.0
231	81231	ECT sensor (DFI, IFI) (B11/4)	23⇒ 9.0
232	81535	Refrigerant pressure sensor (B12)	23⇒ 11.0
233	81533	Refrigerant temperature sensor (B12/1)	23⇒6.0
234	81234	Sun sensor (B32)	23⇒ 12.0
235	81235	Emissions sensor (B31)	23⇒ 14.0
241	B1241	Refrigerant fill	23⇒ 6.0, 11.0
416	B1416	Coolant circulation pump (A31m1)	23⇒ 17.0

¹⁾ Observe Preparation for Test.

3.6 Air Conditioning (A/C)

Diagnosis – Diagnostic Trouble Code Memory

Display o N22 wind			Possible cause	Test step/Remedy 1)
Ebl	417	вічіп	Left-side water valve (Y21y1)	23 ⇒ 18.0
Ebl	418	81418	Right-side water valve (Y21y2)	23 ⇒ 18.0
Ebl	419	81419	Electromagnetic clutch (A9k1)	23 ⇒ 21.0
Ebl	420	81420	Idle speed increase	-
Ebl	421	81421	AIR control module (N65/1)	23 ⇒ 15.0
ЕЫ	422	81422	Serial interface (K1) to instrument cluster (A1)	23 ⇒ 30.0
ЕЫ	423	81423	Switchover valve block (Y11)	23 ⇒ 20.0
Еы	424	81424	Activated charcoal filter actuator(A32m2) open	23 ⇒ 22.0
Еы	425	81425	Activated charcoal filter actuator (A32m2) closed	23 ⇒ 22.0
Ebl	432	81432	Auxiliary heater-NON-USA (continue to next test step)	-
ЕЫ	459	81459	Serial interface (K2) to instrument cluster (A1)	23 ⇒ 31.0
ЕЫ	460	81460	LED - Center air outlet "Warm"	23 ⇒ 24.0
ЕЫ	461	81461	LED - Center air outlet "Cold"	24 ⇒ 25.0
Ebl	462	81462	Wide open throttle (WOT) position (diesel engines)	-

¹⁾ Observe Preparation for Test, see 22.