



Mercedes-Benz

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Diagnostic Manual, Climate Control, Volume 1

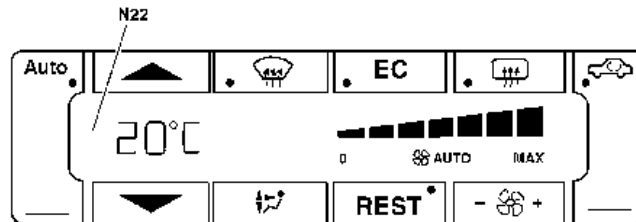
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LOCATION: 3.8 Air Conditioning (A/C) > 12 Diagnosis - Reading Actual Values (via A/C Pushbutton Control Module [N22])

Diagnosis - Reading Actual Values (via A/C Pushbutton Control Module [N22])



- The display window will show in sequence the current data from the A/C pushbutton control module (N22).
- The temperature control is maintained during the duration of the test.



P83.40-2028-04

Preparation for Test

- Ignition: **ON**
- Set temperature selection to **72°F**.
- Press **REST** for more than 6 seconds.
- The left side of the display window will alternately display the number "01" and the in-car temperature (e.g. **72°F**)
- By pressing **+** the next highest test step is displayed (see table).
- Press **REST** to end test program.

Note:

The display will, or "OPE" if there is an open circuit, "CLO" if there is a short circuit.

Display code in N22 window		Possible cause	Test step/Remedy 1)
01	01	In-car temperature sensor (B10/4)	□ 23 ⇒ 4.0
02	02	Outside temperature indicator temperature sensor (B14)	□ 23 ⇒ 10.0
03	03	Left heater core temperature sensor (B10/2)	□ 23 ⇒ 7.0
05	05	Evaporator temperature sensor (B10/6)	□ 23 ⇒ 5.0
06	05	ECT sensor (DFI, IFI) (B11/4)	□ 23 ⇒ 10.0
07	07	Refrigerant pressure in bar, e.g. 06 ° 4 corresponds to 6.4 bar (B12)	□ 23 ⇒ 8.0

08	08	Refrigerant temperature sensor (B12/1), e.g. 73 ° C corresponds to 73.4 ° F	□ 23 ⇒ 6.0
09	- 2)	Not used	-
10	13	Blower control voltage, e.g. 08 ° 0 (min) - 60 ° 0 (max) corresponds to 0.8 - 6.0 volts	□ 23 ⇒ 20.0
20	- 2)	Control current for auxiliary fan e.g. 7 corresponds to 7 mA	□ 23 ⇒ 16.0
21	12	Engine speed, e.g. 00 . . 99 (x 100) corresponds to 9900 rpm	□ 23 ⇒ 10.0
22	11	Vehicle speed 155 (km/h)	□ 23 ⇒ 10.0
23	14	Terminal 58d e.g. 99 corresponds to 99 % battery voltage	-
24	-	Battery voltage e.g. 12.5 = 12.5V	□ 23 ⇒ 1.0
40	3)	Software status e.g. 02	-
41	3)	Hardware status e.g. 08	-
42	2)	Version code 1. number code e.g. 03	-
43	2)	Version code 2. number code e.g. b - C = benzin (gasoline)	-
50	-	not used	-
51	-	not used	-
52	-	Nominal value (temperature selection)	-
54	15	A/C compressor emergency shut off e.g. OFF	□ 23 ⇒ 23.0
60	2)	Roof e.g. OPE = open, CLO = closed	□ 23 ⇒ 13.0
61	2)	Left air outlet, potentiometer voltage e.g. 2.9V	□ 23 ⇒ 27.0
62	2)	Vacuum actuator 46, feedback potentiometer voltage e.g. 0.9 V	□ 23 ⇒ 24.0
63	2)	Center air outlet, potentiometer voltage e.g. 2.9V	□ 23 ⇒ 28.0
64	2)	Vacuum actuator 47, feedback potentiometer voltage e.g. 0.9 V	□ 23 ⇒ 25.0
65	2)	Right air outlet, potentiometer voltage e.g. 2.9V	□ 23 ⇒ 29.0
66	2)	Vacuum actuator 48, feedback potentiometer voltage e.g. 0.9 V	□ 23 ⇒ 26.0

- 1) Observe Preparation for Test.
- 2) Activate menu.
- 3) Control module identification.
- 4) Version coding menu.