

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



1. The display window will show values as per each test step in the Reading Actual Values table.
2. The temperature control is maintained during the duration of the test.

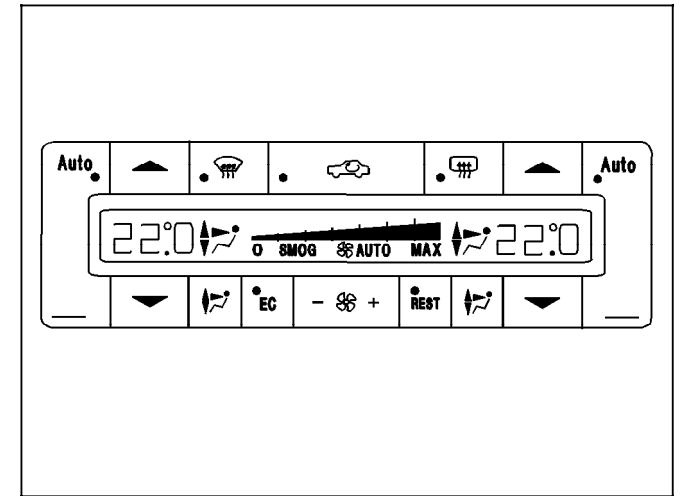


Figure 1

P83.40-0410-01

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Preparation for Test

1. Review 11, 12, 13, 14, 15, 21, 22, 31, 32, 41,
2. Ignition: **ON**
3. Set temperature selection to 72 °F on both sides.
4. Press **REST** for more than 6 seconds.
5. The left side of the display window will display the number "1" and the in-car temperature (e.g. 72 °F) will appear on the right display.
6. By pressing the left **AUTO** button, the next highest test step is displayed (see table).
7. Press **REST** to end test program.




The display will show "-40" if there is a short or open circuit, negative sensor values will be shown on the left display as "-".

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Display code in N22 window 	Possible cause	Test step/Remedy ¹⁾
01 01	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	23 ⇒ 4.0
02 02	Outside temperature indicator temperature sensor (B14)	23 ⇒ 11.0
03 03	Heater core temperature sensor (B10/1) (left)	23 ⇒ 7.0
04 04	Heater core temperature sensor (B10/1) (right)	23 ⇒ 8.0
05 06	Evaporator temperature sensor (B10/6)	23 ⇒ 5.0
06 05	ECT sensor (DFI, IFI) (B11/4)	23 ⇒ 11.0
07 07	Refrigerant pressure in bar, e.g. 05 °C corresponds to 6.4 bar	23 ⇒ 9.0
08 08	Refrigerant temperature sensor (B12/1), e.g. 73 °C corresponds to 73.4 °F	23 ⇒ 6.0
09 -	Menu for activations	-
10 13	Blower control voltage, e.g. 08 °C (min) - 50 °C (max) corresponds to 0.8 - 6.0 volts	23 ⇒ 17.0
20 -	Control current for auxiliary fan e.g. 7 corresponds to 7 mA	23 ⇒ 13.0
21 12	Engine speed, e.g. 99 . . 99 (x 100) corresponds to 9900 rpm	23 ⇒ 11.0
22 11	Vehicle speed, example:155 (km/h)	23 ⇒ 11.0
23 14	Terminal 58d e.g. 99 corresponds to 99 % battery voltage	23 ⇒ 11.0

1) Observe Preparation for Test, see 22.

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Display code in N22 window 	Possible cause	Test step/Remedy ¹⁾
24 ³⁾	Battery voltage e.g. 12.8 V	-
40 ³⁾	Software status e.g. 4	-
41 ³⁾	Hardware status e.g. 3	-
42 ²⁾	Version code 1. number code e.g. 128	-
43 ²⁾	Version code 2. number code e.g. 136	-

- 1) Observe Preparation for Test.
- 2) Version code menu.
- 3) Control module identification.