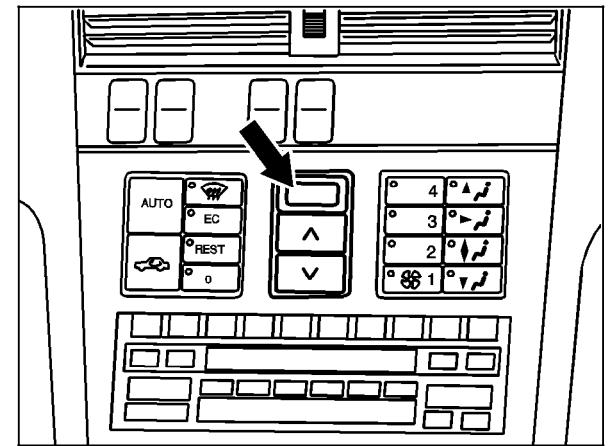


Diagnosis – Reading Actual Values (via A/C Pushbutton Control Module [N22])

Notes:

1. The display window (arrow) will show in sequence the actual temperature readings, refrigerant pressure, blower control voltage and software status of the A/C pushbutton control module (N22).
2. The temperature control is maintained during the duration of the test.



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Figure 1

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

Preparation for Test

1. Ignition: **ON**
2. Set temperature selection to **72 °F** (press \vee and \wedge simultaneously).
3. Press **AUTO**.
4. Press **REST** for more than 6 seconds.
5. The display will alternately show the number "01" and the in-car temperature (e.g. **72 °F**), or "L0" if there is an open circuit, "H1" if there is a short circuit.
6. By pressing the **\nearrow** (ascending numbers) or **\searrow** (descending numbers) the next test step is displayed (see table).
7. Press **REST** to end test program.

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

Display code in N22 window	Possible cause	Test step/Remedy ¹⁾
01	In-car temperature sensor with aspirator blower (B10/4)	23 ⇒ 4.0
02	Outside temperature sensor (B10/5)	23 ⇒ 5.0
03	Heater core temperature sensor (B10/1)	23 ⇒ 7.0
05	Evaporator temperature sensor (B10/6)	23 ⇒ 6.0
06	ECT sensor (B10/8), e.g. 12.05 corresponds to 125 °C	23 ⇒ 8.0
07	Refrigerant pressure in bar, e.g. 12.08 corresponds to 12.8 bar	23 ⇒ 9.0
08	Blower control voltage, e.g. 16.05 corresponds to 1.65 V	23 ⇒ 16.0
09	Software status of A/C pushbutton control module, e.g. 01	-
15	Selected in-car temperature	-
20	Version code	Reading and programming of version code 14
21	Engine speed, e.g. 06.00 – 70.00 corresponds to 600 - 7000 rpm	23 ⇒ 27.0
22	A/C compressor speed, e.g. 00.00 – 84.00 corresponds to 0 - 8400 rpm	23 ⇒ 17.0

¹⁾ Observe Preparation for Test, see 22.

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

Display code in N22 window	Possible cause	Test step/Remedy ¹⁾
23	Vehicle speed (km/h)	DM, Chassis and Drivetrain, Vol. 2, Section 5.3 (ASR) DM, Chassis and Drivetrain, Vol. 2, Section 6.3 (ABS)
50	80.º – 00.º not used	-
51	Number of current slip recognitions (poly-V-belt)	23 ⇒ 17.0
52	Number of stored slip recognitions (poly-V-belt)	23 ⇒ 17.0

¹⁾ Observe Preparation for Test, see 22.

Diagnosis - Reading Actual Values (via Hand-Held Tester [HHT])

Note: Observe Preparation for Function Test, see 11

	Possible cause	Test step/Remedy ¹⁾
01	In-car temperature sensor with aspirator blower (B10/4)	23 ⇒ 4.0
02	Outside temperature sensor (B10/5)	23 ⇒ 5.0
03	Heater core temperature sensor (B10/1)	23 ⇒ 7.0
05	Evaporator temperature sensor (B10/6)	23 ⇒ 6.0
06	ECT sensor (B10/8)	23 ⇒ 8.0
07	Refrigerant pressure in bar	23 ⇒ 9.0
21	Engine speed	23 ⇒ 27
22	A/C compressor speed	23 ⇒ 17.0
23	Vehicle speed (km/h)	DM, Chassis and Drivetrain, Vol. 2, Section 5.3 (ASR) DM, Chassis and Drivetrain, Vol. 2, Section 6.3 (ABS)

¹⁾ Observe Preparation for Test, see 22.