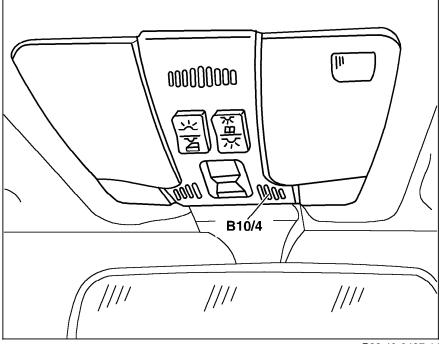
3.5 Air Conditioning (A/C)

Diagnosis – Function Test

Preparation for Test

- 1. Review 11, 12, 13, 14, 15, 20, 21, 22, 31, 32, 41, 42
- 2. Check condition of fuses F1/4, F1/7, F1/8
- 3. Check in-car temperature sensor aspirator blower (Figure 1) by placing a small piece of paper (arrow) approximately "square over in-car temperature sensor aspirator blower vent grille (B10/4) with ignition ON. If there is sufficient ventilation the paper will remain on the vent grille, if not check aspirator blower for voltage supply and function. The after-run time for the blower motor is greater than six seconds.
- 4. Run engine at closed throttle and operating temperature (approx. 80 °C engine coolant temperature) during entire test (ensure that the shift lever is in "P" and that the parking brake is engaged).
- 5. Manually open the center and side air outlets.
- 6. Ensure that the button is **not depressed**.



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Figure 1

B10/4 In-car temperature sensor

Air Conditioning (A/C) 3.5

Diagnosis – Function Test

Test step/Test sequence		Test condition	Nominal value	Possible cause/Remedy 1)
⇒ 1.0	Defrost	Press Temperature selection at random setting	Blower runs with increased speed. Air venting from defroster outlets. A/C compressor engaged. Maximum heat output, 100% fresh air	23 ⇒ 9.0, 10.0, 14.0, 15.0, 18.0 20.0
⇒ 2.0	Ventilation in cooling mode	Press AUTO Temperature selection "LO"	Blower runs with increased speed. Air venting from center and side outlets. A/C compressor engaged, no heat output.	32 ⇒ Test A, B, C, 23 ⇒ 9.0, 14.0, 18.0, 20.0
⇒ 3.0	Normal setting in regulating mode	Press AUTO Temperature selection set at present incar temperature.	Blower speed decreases. Air venting from defroster outlets, leak air from footwell outlets. A/C compressor engaged. Tempered air venting. Duovalve cycles and auxiliary coolant pump runs.	32 ⇒ Test A, B, C, 23 ⇒ 9.0, 14.0, 18.0, 19.0, 20.0
⇒ 4.0	Economy mode, no heating	Temperature selection "Lü" Press Press	Air venting from dash outlets (ambient temperature) A/C compressor OFF.	32 ⇒ Test A, B, C, 23 ⇒ 18.0, 19.0

¹⁾ Observe Preparation for Test, see 22.

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Diagnosis – Function Test

Test step/Test sequence		Test condition	Nominal value	Possible cause/Remedy 1)
⇒ 5.0	•	Press EC	Air venting from footwell and side outlets left/right. Leak air from defroster outlets. Maximum heat output.	23 ⇒ 14.0, 15.0, 18.0, 19.0 32 ⇒ Testing A, B, C
⇒ 6.0	· ·		Heated air from footwell and side outlets, leak air from defroster outlets. Blower runs at low speed.	32 ⇒ Testing A, B, C, 23 ⇒ 14.0, 15.0, 16.0, 17.0, 18.0, 19.0, 23.0

¹⁾ Observe Preparation for Test, see 22.

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3.5 A/C

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