
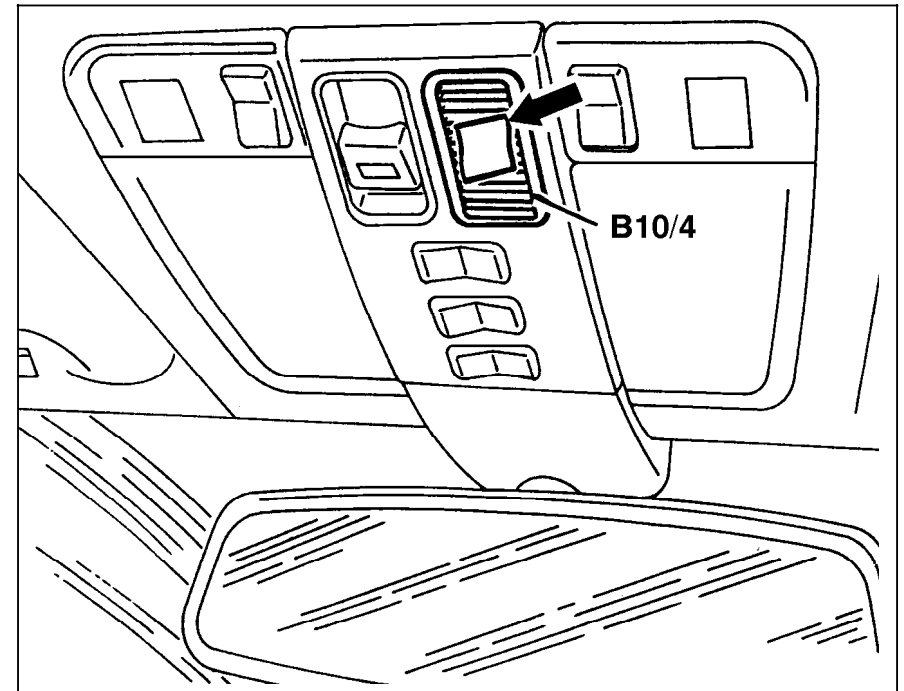


Diagnosis – Function Test

Preparation for Test

1. Check condition of fuse 20 circuit 15 (F3-f20), fuse 21 circuit 15 (F3-f21) and fuse 18 circuit 30 (F3-f18).
Check condition of fuse 1 circuit 15 in rear fuse box (F4-1).
2. Check in – car temperature sensor/aspirator blower by placing a small piece of paper (approx. 1" sq.) over aspirator blower vent grille with ignition "ON" (arrow, Figure 1). 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 approx. 1 minute.
3. Run engine at operating temperature (80 °C) during entire test (ensure that the shift lever is in "P" and that the parking brake is engaged).
4. Manually open the center and side air outlets.
5. Ensure that the  button is not depressed.




P83-3330-35

Figure 1

B10/4 In – car temperature sensor (with aspirator blower in E15)

Diagnosis – Function Test

Note: The Test Condition(s) can be performed on the driver or passenger side controls or also the rear controls on vehicles equipped with rear A/C.

Test step/Test scope	Test condition	Nominal value	Possible cause/Remedy ¹⁾
⇒ 1.0 Defrost	Temperature selector wheel at random setting. Press button  . Fan speed wheel set to AUTO .	Blower runs with increased speed. Air venting from upper outlets. A/C compressor engaged. Maximum heat output. Charcoal filter off, 100% fresh air.	23 ⇒ 1.0, 13.0, 30.0
⇒ 2.0 Total ventilation in cooling mode	Temperature selector wheels in “blue” area. Press AUTO . Fan speed wheel set to AUTO .	Blower runs with increased speed. Air venting from center outlets. A/C compressor engaged. No heat output.	23 ⇒ 13.0, 30.0 33/2
⇒ 3.0 Normal ventilation in regulating mode	Temperature selector wheel set at present in-car temperature. Press AUTO . Fan speed wheel set to AUTO .	Blower speed decreases. Air venting from lower outlets, leak air from upper outlets. A/C compressor engaged. Tempered air exhaust. Simultaneous cycling of duovalve and auxiliary coolant pump.	23 ⇒ 13.0, 25.0, 26.0, 27.0, 36.0 33/2, 3

1) Observe Preparation for Test, see 22.

Diagnosis – Function Test

Test step/Test scope	Test condition	Nominal value	Possible cause/Remedy ¹⁾
⇒ 4.0 Center air outlet “warm”	Temperature selector wheels in “red” area. Press warm air switch on center outlet. Fan speed wheel set to AUTO .	Heated air from center outlets. Blower speed increases.	23 ⇒ 13.0, 15.0, 16.0 33/3
⇒ 5.0 Center air outlet “cool”	Temperature selector wheels in “red” area. Press cool air switch on center outlet. Fan speed wheel set to AUTO . Press AUTO button.	Cool air from center outlet.	23 ⇒ 13.0, 15.0, 16.0 33/3
⇒ 6.0 Economy in heating mode	Temperature selector wheels in “red” area. Press S button. Fan speed wheel set to AUTO .	Air venting from lower and side outlets, leak air from upper outlets. Maximum heat output.	23 ⇒ 13.0, 33/2, 3

¹⁾ Observe Preparation for Test, see 22.

Note: VEHICLES WITH REAR A/C

Press both **AUTO** buttons, fan speed wheel set to **AUTO**, both temperature selector wheels set in “white” area **BEFORE** proceeding with Test Conditions

Test step/Test scope	Test condition	Nominal value	Possible cause/Remedy ¹⁾
⇒ 7.0 Rear A/C ON	Both temperature selector wheels in “white” area. Ensure that the rear A/C fan speed wheel is not set to “0” (Off). Push air distribution slide to the top.	No air venting from beneath seat outlets. Rear A/C blower running. Air venting from outlets.	23 ⇒ 32.0, 36.0, 44.0

¹⁾ Observe Preparation for Test, see 22.

Diagnosis – Function Test

Test step/Test scope	Test condition	Nominal value	Possible cause/Remedy ¹⁾
⇒ 8.0 Cooling operation	<p>Ensure that the rear A/C fan speed wheel is not set to "0" (Off). Set both temperature selector wheels to "blue" detent. Push air distribution slide to the top.</p> <p>Push air distribution slide to the bottom.</p>	<p>Rear A/C blower running.</p> <p>Cool air venting from outlets.</p> <p>Cool air venting from beneath seat outlets.</p>	23 ⇒ 32.0, 37.0, 38.0, 39.0
⇒ 9.0 Heating operation	<p>Ensure that the rear A/C fan speed wheel is not set to "0" (Off). Set both temperature selector wheels to "red" detent. Push air distribution slide to the top.</p> <p>Push air distribution slide to the bottom.</p>	<p>Rear A/C blower running.</p> <p>Warm air venting from outlets.</p> <p>Warm air venting from beneath seat outlets.</p>	23 ⇒ 32.0, 37.0, 38.0, 39.0, 40.0, 41.0, 42.0
⇒ 10.0 Full heat operation	<p>Temperature selector wheels front A/C panel set to "red" detent. Ensure that the rear A/C fan speed wheel is not set to "0" (Off). Set both temperature selector wheels to "red" detent. Push air distribution slide to the top.</p>	<p>Rear A/C blower running.</p> <p>Warm air venting from beneath seat outlets and from console outlets.</p>	23 ⇒ 32.0, 37.0, 38.0, 39.0, 40.0, 41.0, 42.0, 44.0

1) Observe Preparation for Test, see 22.