



Diagnosis – Function Test

Preparation for Test

1. Review 14, 15, 21, 22, 31, 32, 41, 42,
2. Check condition of fuses.
3. Check in - car temperature sensor by placing a small piece of paper (approx. " 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.
4. 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).
5. Outside air temperature > 15° C (58° F).
6.  button on A/C pushbutton control module (N19) is **not illuminated**.
7. Manually open center and side air outlets.
8. Ensure that the  button is not depressed.
9. Set blower fan to stage 3.

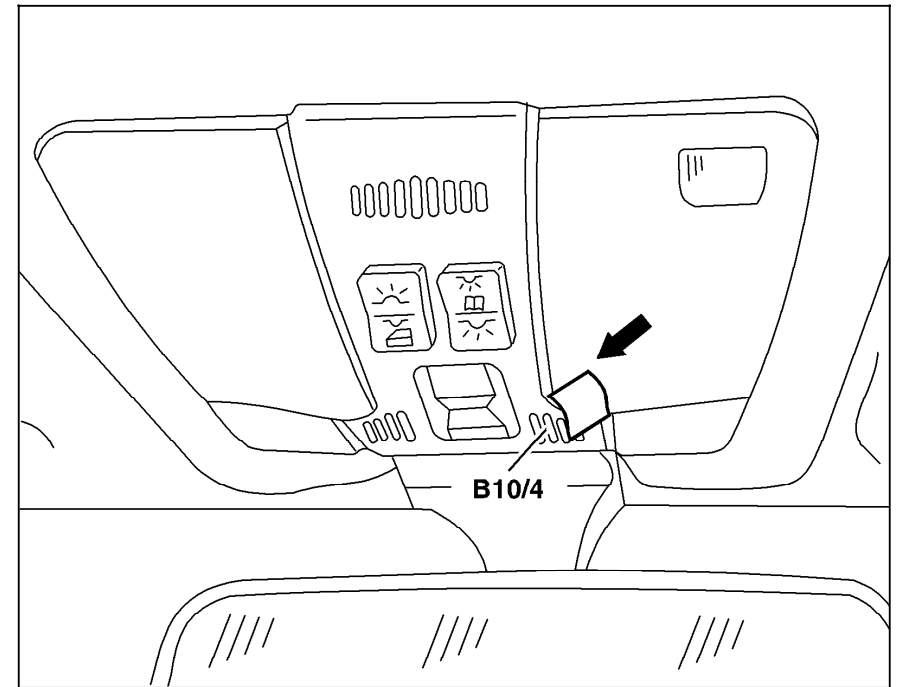


Figure 1

P83.30-3100-11

Diagnosis – Function Test

Test step/Test sequence	Test condition	Nominal value	Possible cause/Remedy ¹⁾
⇒ 1.0 Defrost	Temperature selector wheel in "white range". EC button indicator lamp is not illuminated. Air distribution dial set at 12 o'clock position (vertical).	Air venting from center vents. Air venting from defroster outlets. A/C compressor engaged.	23, 32⇒ 1.0 – 3.0
⇒ 2.0 Normal ventilation in regulating mode	Temperature selector wheel in "white range". EC button indicator lamp is not illuminated. Air distribution dial set at 4 o'clock position.	Air venting from lower and upper outlets. A/C compressor engaged. Tempered air from center air outlet. Duovalve cycles at the same time and coolant circulation pump (M13) runs.	23 ⇒ 11.0, 12.0, 14.0, 15.0, 16.0, 17.0, 18.0
⇒ 3.0 Economy setting not in heating mode	Temperature selector wheel in "blue range" detent. EC button indicator lamp is illuminated. Air distribution dial set at 9 o'clock position.	Air venting from center air outlets (ambient temperature) A/C compressor not engaged.	23 ⇒ 11.0 , 14.0, 15.0

1) Observe Preparation for Test, see 22.

Diagnosis – Function Test

Test step/Test sequence	Test condition	Nominal value	Possible cause/Remedy ¹⁾
⇒ 4.0 Economy setting in heating mode	Temperature selector wheel in "red range" detent. EC button indicator lamp is illuminated. Air distribution dial set at 4 o'clock position.	Heated air venting from lower, upper and center air outlets. A/C compressor not engaged.	23 ⇒ 11.0, 14.0, 15.0
⇒ 5.0 "REST" (residual engine heat utilization mode)	Ignition: OFF Press REST button. Temperature selector wheel in "red range". Air distribution dial set at 4 o'clock position.	Heated air venting from lower, upper and center air outlets.	23 ⇒ 12.0, 14.0, 15.0
⇒ 6.0 "A/C" Test	See A/C Test section.		51, 52
⇒ 7.0 Quality Control and Heater Output Test	See Quality Control and Heater Output Test section.	Special tools	51, 52 22

1) Observe Preparation for Test, see 22.