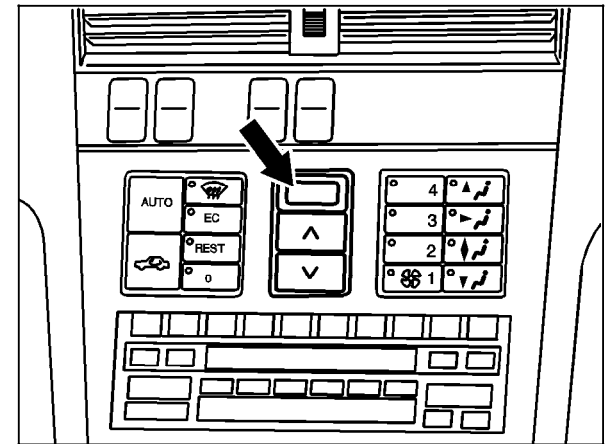


Diagnosis – Individual Flap Test (via A/C Pushbutton Control Module [N22])

Notes:

1. The display window (arrow) in the A/C pushbutton control module (N22) will show the code 53. Pressing the various buttons will activate the individual vacuum actuators (see table 13/3). The LED on the depressed button lights up.
2. The temperature control is maintained during the duration of the test.



P83-5626-13

Figure 1

Diagnosis – Individual Flap Test (via A/C Pushbutton Control Module [N22])

Preparation for Test

1. Engine: **At Idle**
2. Press **AUTO**.
3. Press **L** stage 4.
4. Set temperature selection to 72 °F (simultaneously press \vee and \wedge)
6. Press **REST** for more than 6 seconds.
7. The display alternately shows the number "01" and the in-car temperature.
8. Press **↕** within 5 seconds. The display shows "53".
9. By pressing the "air distribution" and **L** 1 - 4 (one after the other) the individual vacuum actuators are activated (see table).

Turn on:	By pressing the individual button.
Turn off:	By pressing the same button again.
Function indication:	By LED in individual button.
10. Press **EC** to end test program.









Note:

Two stage vacuum actuators function at full stroke (100%) only, if the long stroke (80%) and the short stroke (20%) are pressed.

Pressing the short stroke (20%) by itself does not change the flap position.

If the number "53" appears on the display and non of the buttons listed in the table are depressed, then there is no vacuum present and air comes from the defroster outlets and the side outlets.

Diagnosis – Individual Flap Test (via A/C Pushbutton Control Module [N22])

Diagnostic Trouble Code (DTC)	Activated flap ³⁾	Test condition	Nominal value/Air output	Test step/Remedy ¹⁾
53	Defroster flap long stroke (80%)	Pushbutton  stage 4	Leak air from defroster outlets, air venting from side outlets left/right.	23⇒ 25.0 32⇒ 1.0
53	Defroster flap short stroke (20%)	Pushbutton  ²⁾	Air venting from side outlets left/right.	23⇒ 26.0 32⇒ 2.0
53	Center outlet tempering flap	Pushbutton  stage 3	Warm air from center outlet.	23⇒ 20.0 32⇒ 3.0
53	Center outlet diverter flap	Pushbutton 	Cold air from center outlet.	23⇒ 19.0 32⇒ 4.0
53	Recirculating air flap long stroke (80%)	Pushbutton  stage 2	Air flow from center outlet increases.	23⇒ 21.0 32⇒ 5.0
53	Recirculating air flap short stroke (20%)	Pushbutton  ²⁾	100% recirculating air	23⇒ 22.0 32⇒ 6.0
53	Footwell flap long stroke (80%)	Pushbutton  stage 1	Air flow from footwell outlets increases.	23⇒ 23.0 32⇒ 7.0
53	Footwell flap short stroke (20%)	Pushbutton  ²⁾	Air flow from left/right footwell outlets.	23⇒ 24.0 32⇒ 8.0

1) Observe Preparation for Test.


2) Before actuating the short stroke (20%), the long stroke (80%) must be actuated.

3) All activations of the flaps also can be performed with the Hand-Held Tester (HHT).

Diagnosis – Individual Flap Test (via Hand-Held Tester [HHT])

Note:

1. Observe Preparation for Function Test, see 11.
2. The components and functions described in the table below can be activated via the Hand-Held Tester (HHT).
The data and notes for the individual test steps are to be taken from the display in the window of the HHT.

	Possible cause	Test step/Remedy ¹⁾
01	Auxiliary fan (M4)	23⇒ 11.0, 12.0
02	Auxiliary coolant pump (M13)	23⇒ 14.0
03	Duovalve (Y21)	23⇒ 15.0
04	A/C compressor (A9)	23⇒ 17.0
05	Defroster outlet flap	23⇒ 25.0, 26.0, 32⇒ 1.0, 2.0
06	Footwell flap	23⇒ 23.0, 24.0, 32⇒ 7.0, 8.0
07	Fresh/recirculating air flap	23⇒ 21.0, 22.0, 32⇒ 5.0, 6.0
08	Diverter/tempering flaps	23⇒ 19.0, 20.0, 32⇒ 3.0, 4.0
09	Blower motor (A32m1)	23⇒ 16.0
Gasoline engines only 10	Closed throttle speed increase	23⇒ 13.0

¹⁾ Observe Preparation for Test, see 22.