

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



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

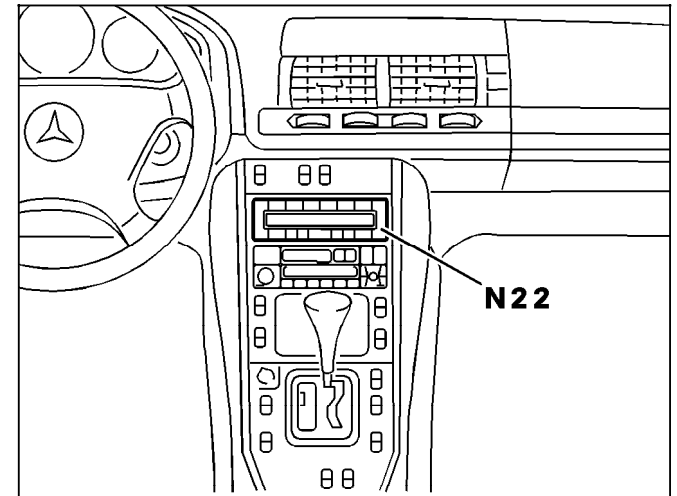



Figure 1

P83.40-0304-01

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Preparation for Test

1. Review 11, 12, 13, 14, 15, 21, 22, 23, 31, 32, 41
2. Engine: **At Idle**
3. Press left and right **AUTO** buttons.
4. Set temperature selector to 72 °F.
5. Manually open the side and middle air vents
6. Press **REST** and  for > 5 secs.
7. The left display will show „0” and the right will show “L0”
8. By pressing left **AUTO**, the next highest test step is displayed. To switch from “L0” to “H1” press right **AUTO** (see table).
9. Press **REST** 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.

The blower moter will operate on 6 V during the test.

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Diagnostic Trouble Code (DTC)	Activated flap ³⁾	Test condition	Right display	Nominal value/Air output	Test step/Remedy ¹⁾
0	All	Press right AUTO	Hi Lo	Flaps closed (air to windshield). All flaps opened (no air to windshield).	33/2, 33/3
1	Left diverter flap ¹⁾	Press right AUTO	Lo Hi	Left center outlet closed. Left center outlet opened.	33/2, 33/3
2	Right diverter flap ¹⁾	Press right AUTO	Lo Hi	Right center outlet closed. Right center outlet opened.	33/2
3	Left blend air flap ¹⁾	Press right AUTO	Lo Hi	Left center outlet closed. Left center outlet opened (heated air).	33/3
4	Right blend air flap ¹⁾	Press right AUTO	Lo Hi	Right center outlet closed. Right center outlet opened (heated air).	33/3
5	Left defroster flap long stroke ²⁾	Press right AUTO	Lo Hi	Side defroster leak air. Side defroster maximum air.	33/3

1) The left and right defroster outlets will also be activated (long and short stroke).

2) The right defroster outlet will also be activated (long and short stroke).

3) The left defroster outlet will also be activated (long and short stroke).

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Diagnostic Trouble Code (DTC)	Activated flap ³⁾	Test condition	Right display	Nominal value/Air output	Test step/Remedy ¹⁾
E	Left defroster flap long and short stroke ²⁾	Press right AUTO	LO	Left defroster outlet closed.	32/2
			HI	Left defroster outlet opened.	
7	Right defroster flap long stroke ³⁾	Press right AUTO	LO	Right defroster outlet opened, leak air.	33/2
			HI	Right defroster outlet opened.	
8	Right defroster flap, long and short stroke ³⁾	Press right AUTO	LO	Right defroster flap closed.	33/2
			HI	Right defroster flap opened.	
9	Main air flap long stroke ⁴⁾	Press right AUTO	LO	Fresh air.	33/2
			HI	Recirculated air 80%.	
10	Main air flap long and short stroke ⁴⁾	Press right AUTO	LO	Fresh air.	33/4
			HI	Recirculated air 100%.	

1) The left and right defroster outlets will also be activated (long and short stroke).

2) The right defroster outlet will also be activated (long and short stroke).

3) The left defroster flap will also be activated (long and short stroke).

4) The left and right blend air flaps will also be activated.

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Diagnostic Trouble Code (DTC)	Activated flap ³⁾	Test condition	Right display	Nominal value/Air output	Test step/Remedy ¹⁾
11	Left footwell flap, long stroke ¹⁾	Pushbutton right AUTO	LO	Left footwell flap, closed.	33/1
			HI	Left footwell flap opened, leak air	
12	Left footwell flap, long and short stroke ¹⁾	Pushbutton right AUTO	LO	Left footwell flap, leak air.	33/2
			HI	Left footwell flap, opened.	
13	Right footwell flap, long stroke ¹⁾	Pushbutton right AUTO	LO	Right footwell flap, closed.	33/2
			HI	Right footwell flap opened, leak air	
14	Right footwell flap, long and short stroke ¹⁾	Pushbutton right AUTO	LO	Right footwell flap, leak air.	33/2
			HI	Right footwell flap, opened.	
15	All flaps	Pushbutton right AUTO	LO	All flaps closed.	33/2
			HI	All flaps opened.	

¹⁾ The left and right defroster outlets will also be activated (long and short stroke).

³⁾ The left defroster flap will also be activated (long and short stroke).