

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

#### Notes:

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 (refer to test table). The LED on the depressed button lights up.
2. The temperature control is maintained during the duration of the test.

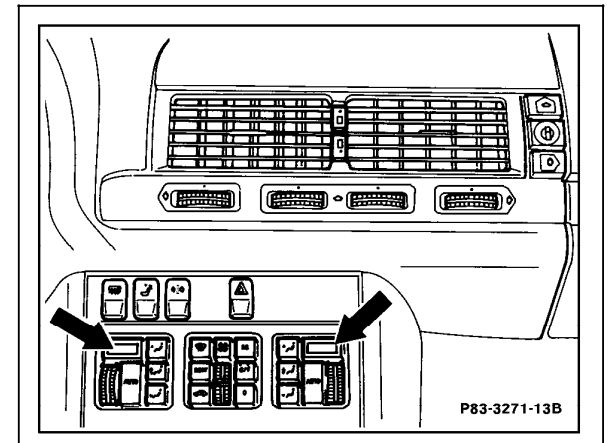


Figure 1

P83-3271-13B

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

#### Preparation for Test

1. Engine: **At Idle**
2. Press left and right **AUTO** buttons.
3. Set temperature selector to 72 °F.
4. Manually open the side and middle air vents.
5. Press **REST** and °C/°F and for > 5 secs.
6. The left display will show "L" and the right will show "R".
7. By pressing **AUTO** on the left side, the next highest test step is displayed. To switch from "L" to "H" press **AUTO** on the right side (see table).
8. 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.

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

Diagnostic Trouble Code (DTC)	Activated flap <sup>3)</sup>	Test condition	Right display	Nominal value/Air output	Test step/Remedy <sup>1)</sup>
0	All	Press right <b>AUTO</b>	LO	All flaps closed, defroster outlet opened.	33/2, 33/3
			HI	All flaps opened.	
1	Left diverter flap <sup>2)</sup>	Press right <b>AUTO</b>	LO	Left center outlet closed.	33/2, 33/3
			HI	Left center outlet opened, cold air.	
2	Right diverter flap <sup>2)</sup>	Press right <b>AUTO</b>	LO	Right center outlet closed.	33/2
			HI	Right center outlet opened, cold air.	
3	Left blend air flap <sup>2)</sup>	Set left temperature selector wheel to “red” detent. Press right <b>AUTO</b>	LO	Left center outlet closed.	33/3
			HI	Left center outlet, warm air.	
4	Right blend air flap <sup>2)</sup>	Set right temperature selector wheel to “red” detent. Press right <b>AUTO</b>	LO	Right center outlet, closed.	33/3
			HI	Right center outlet, warm air.	
5	Side outlet diverter flaps <sup>1)</sup> (up to VIN 1A 123445)	Set both temperature selector wheels to “blue” detent. Press right <b>AUTO</b> Set both temperature selector wheels to “red” detent.	LO	Cool air from side outlet.	33/3
			HI	Warm air from side outlet.	

1) Observe Preparation for Test, see 22.

2) 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).

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

Diagnostic Trouble Code (DTC)	Activated flap <sup>3)</sup>	Test condition	Right display	Nominal value/Air output	Test step/Remedy <sup>1)</sup>
E	Left defroster flap long stroke <sup>2)</sup>	Pushbutton right <b>AUTO</b>	LO	Left defroster outlet opened.	33/2
			HI	Left defroster outlet opened, leak air.	
7	Left defroster flap long and short stroke <sup>2)</sup>	Pushbutton right <b>AUTO</b>	LO	Left defroster outlet opened.	33/2
			HI	Left defroster outlet closed.	
8	Right defroster flap, long stroke <sup>3)</sup>	Pushbutton right <b>AUTO</b>	LO	Right defroster flap open, leak air.	33/2
			HI	Right defroster flap opened.	
9	Right defroster flap, long and short stroke <sup>3)</sup>	Pushbutton right <b>AUTO</b>	LO	Right defroster flap opened.	33/2
			HI	Right defroster flap, opened.	
10	Main air flap short stroke <sup>4)</sup> (up to VIN 123445)	Pushbutton right <b>AUTO</b>	LO	Fresh air.	33/4
			HI	Recirculated air (increased air volume).	
	LO		100% fresh air		
	HI		100% recirculated air		

1) Observe Preparation for Test, see 22.

2) The right defroster outlets 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.

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

Diagnostic Trouble Code (DTC)	Activated flap <sup>3)</sup>	Test condition	Right display	Nominal value/Air output	Test step/Remedy <sup>1)</sup>
11	Main air flap long and short stroke <sup>4)</sup> (up to VIN 123445)	Pushbutton right <b>AUTO</b>	LO HI	Fresh air. Recirculated air 100%.	33/4
	Main air flap (up to VIN 123446)	Pushbutton right <b>AUTO</b>	LO HI	100% recirculated air. 100% fresh air.	
12	Left footwell flap, long stroke <sup>1)</sup>	Pushbutton right <b>AUTO</b>	LO HI	Left footwell flap, closed. Left footwell flap opened, leak air.	32/2
13	Left footwell flap, long and short stroke <sup>1)</sup>	Pushbutton right <b>AUTO</b>	LO HI	Left footwell flap, leak air. Left footwell flap, opened.	33/2
14	Right footwell flap, long stroke <sup>1)</sup>	Pushbutton right <b>AUTO</b>	LO HI	Right footwell flap, closed. Right footwell flap opened, leak air	33/2
15	Rightfootwell flap, long and short stroke <sup>1)</sup>	Pushbutton right <b>AUTO</b>	LO	Right footwell flap, leak air.	33/2
			HI	Right footwell flap, opened.	

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

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

<sup>4)</sup> The left and right blend air flaps will also be activated.