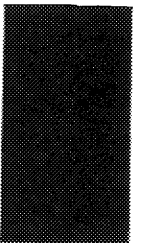


Supplement B
Automatic Climate Control
starting Model Year 1986



Automatic climate control

Model 107

Modifications as compared with model year 1985

Switch for fresh/recirculating air

After switching on the ignition, the switch (S24) can be engaged for 80% recirculating air. The change back to fresh air is made when the switch (S24) or the ignition is switched off (refer to Figs. 83/13 and 83/14).

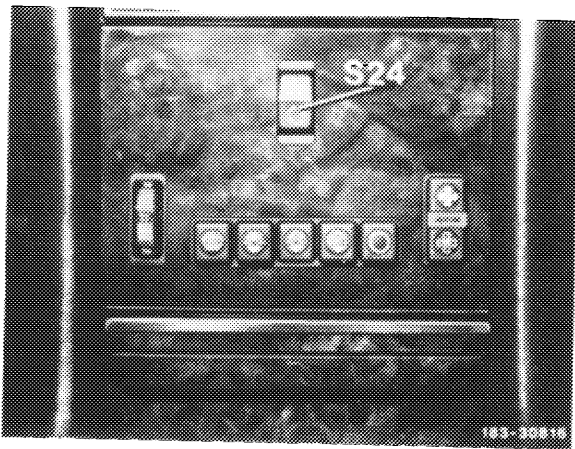


Fig. 83/1

S 24 Switch for fresh/recirculating air (80%)

Switchover valve unit

A switchover valve unit with 4 switchover valves is installed (access with glove box removed). It is a single unit and can be replaced only as an assembly.

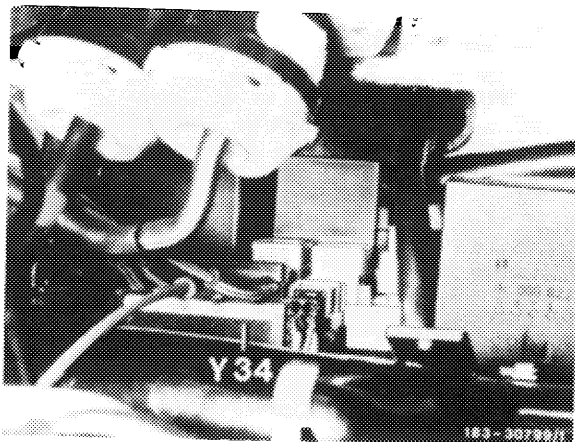


Fig. 83/2

Y 34 Switchover valve unit with 4 connections

Auxiliary fan

The fan known from model 126 is installed. Current draw at max. speed and 13 V is approx. 17.5 amps.

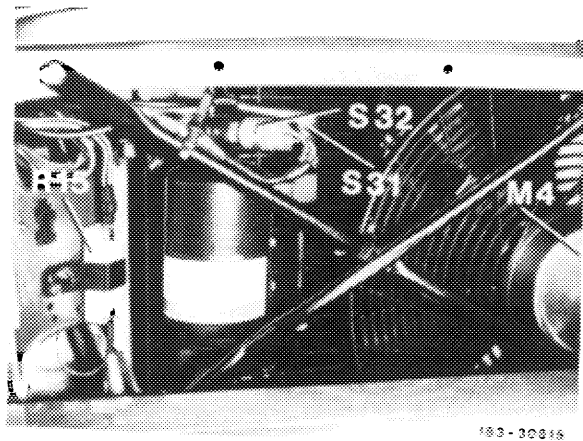


Fig. 83/3

M 4 Auxiliary fan
S 32 Refrigerant high pressure switch for auxiliary fan and R15 pre-resistor for auxiliary fan

The auxiliary fan is activated in 2 steps:

- Low speed with high pressure switch (S32) instead of temperature switch (52°C) known previously. The switch engages the relay K10 at a refrigerant pressure of approx. 20 bar and the low speed via pre-resistor (R15). It disengages at approx. 15 bar.

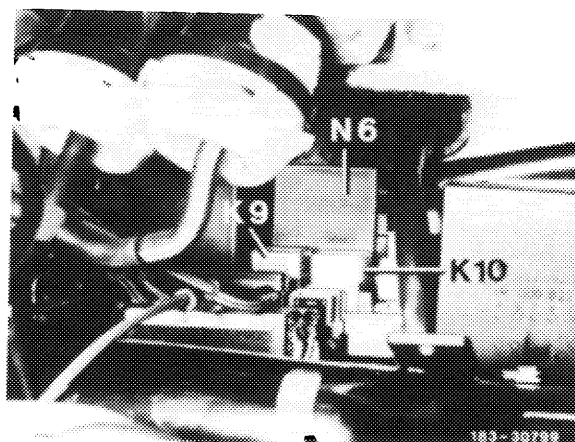


Fig. 83/4

K 9 Relay, auxiliary fan (high speed)
K 10 Relay, auxiliary fan (low speed)

B Supplement as of Model Year 1986

- High speed is directly activated with battery voltage by means of temperature switch (S 25/5) at 105 °C coolant temperature via relay (K9) and off again at approx. 97 °C.

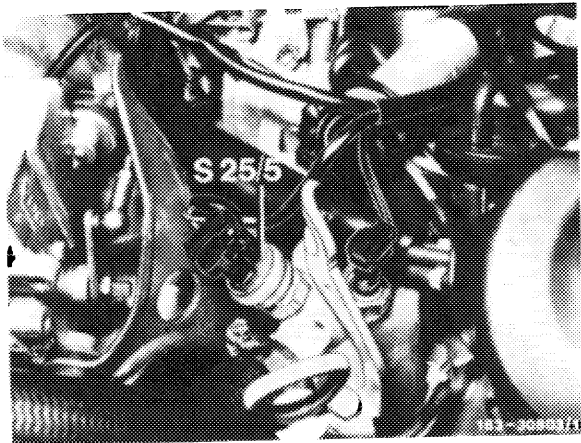





Fig. 83/5

S 25/5 Coolant temperature switch 105/115°C

Pushbutton switch unit

The switching procedure of the unit (N 22/2) has been modified. After engaging one of the function selections ,  or  a ground (–) signal is routed to control unit for compressor cutout (N6). Until now, the relay for refrigerant compressor had been activated with a (+) connection.

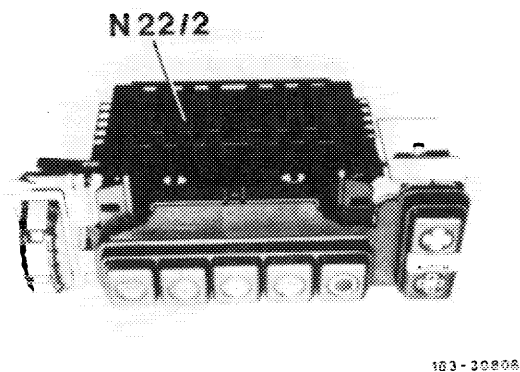


Fig. 83/6

N 22/2 Pushbutton switch unit

Air conditioning compressor cutout

For faster stabilization of engine speed after starting, the A/C compressor is activated, by the control unit

(N6) from an engine speed of approx. 600 rpm only after approx. 10 seconds.

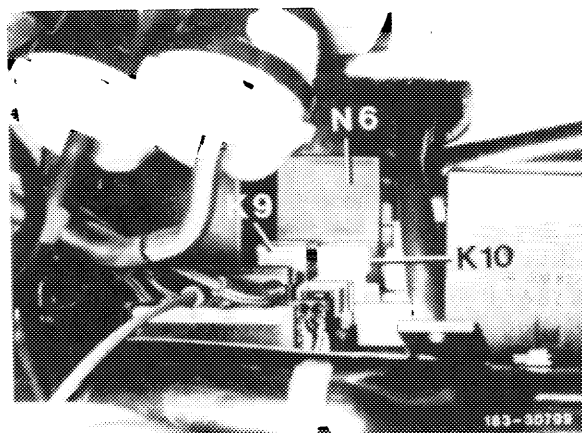


Fig. 83/7

N6 Control unit for compressor cutout

A/C compressor overheating cutout

To prevent overheating of the engine, the control unit for compressor cutout (N6) is provided with an integrated emergency cutout. At approx. 115°C coolant temperature the temperature switch (S 25/5, 1-pole connection) switches to ground, so that the A/C compressor will be switched off via control unit (N6). The temperature switch (S 25/5) opens at approx. 108°C and the A/C compressor will again be switched on via control unit (N6). In addition, the A/C compressor:

- switches off above 5750 rpm
- and on again below 5550 rpm

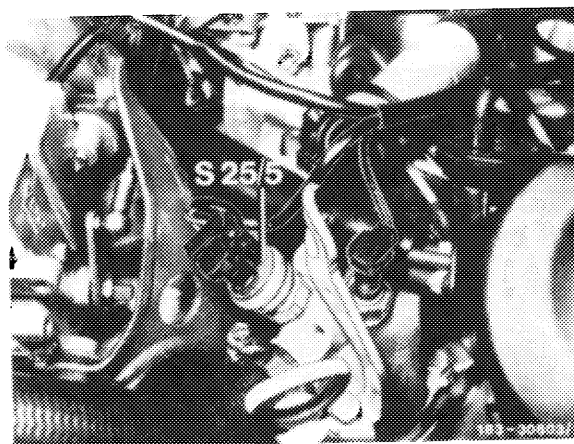


Fig. 83/8

S 25/5 Coolant temperature switch 105/115 °C

Plug connection climate control harness/engine harness (X 85)

The plug connection (X 85) is located on relay holder for relay (K 9) and (K 10).

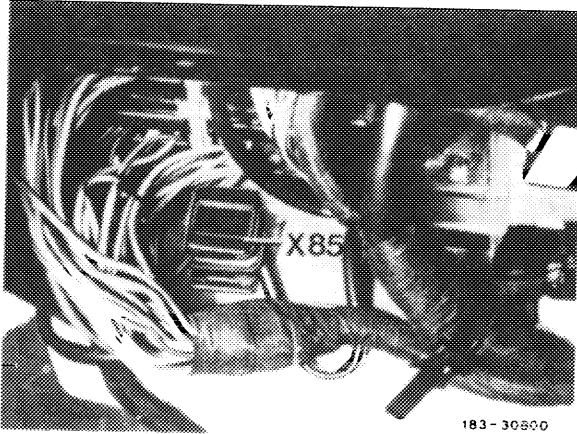


Fig. 83/9

X 85 Plug connection climate control harness/engine harness

Cold engine lock-out

The location of the cold engine lock-out has been changed. It is now on the right cylinder head, rear.

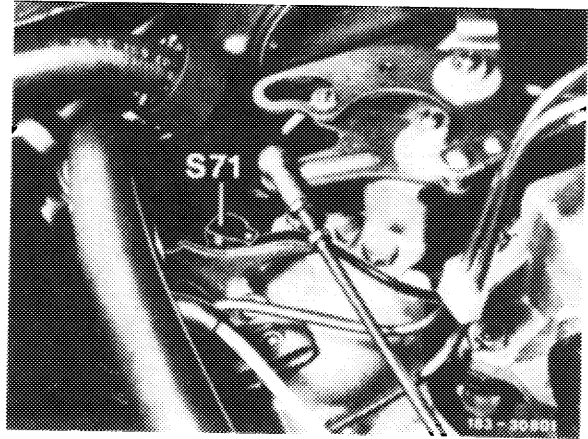


Fig. 83/11

S 71 Cold engine lock-out

Air conditioning compressor

The swash plate air conditioning compressor is made by Nippondenso and carries the designation 10 P 17. The oil filling capacity of the air conditioning compressor amounts to 120 cc.

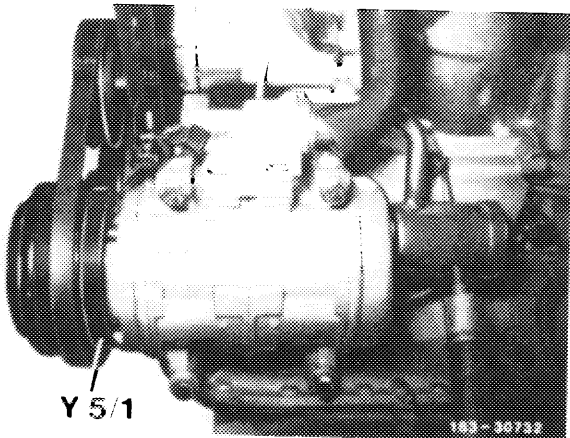


Fig. 83/10

B Supplement as of Model Year 1986

Wiring diagram

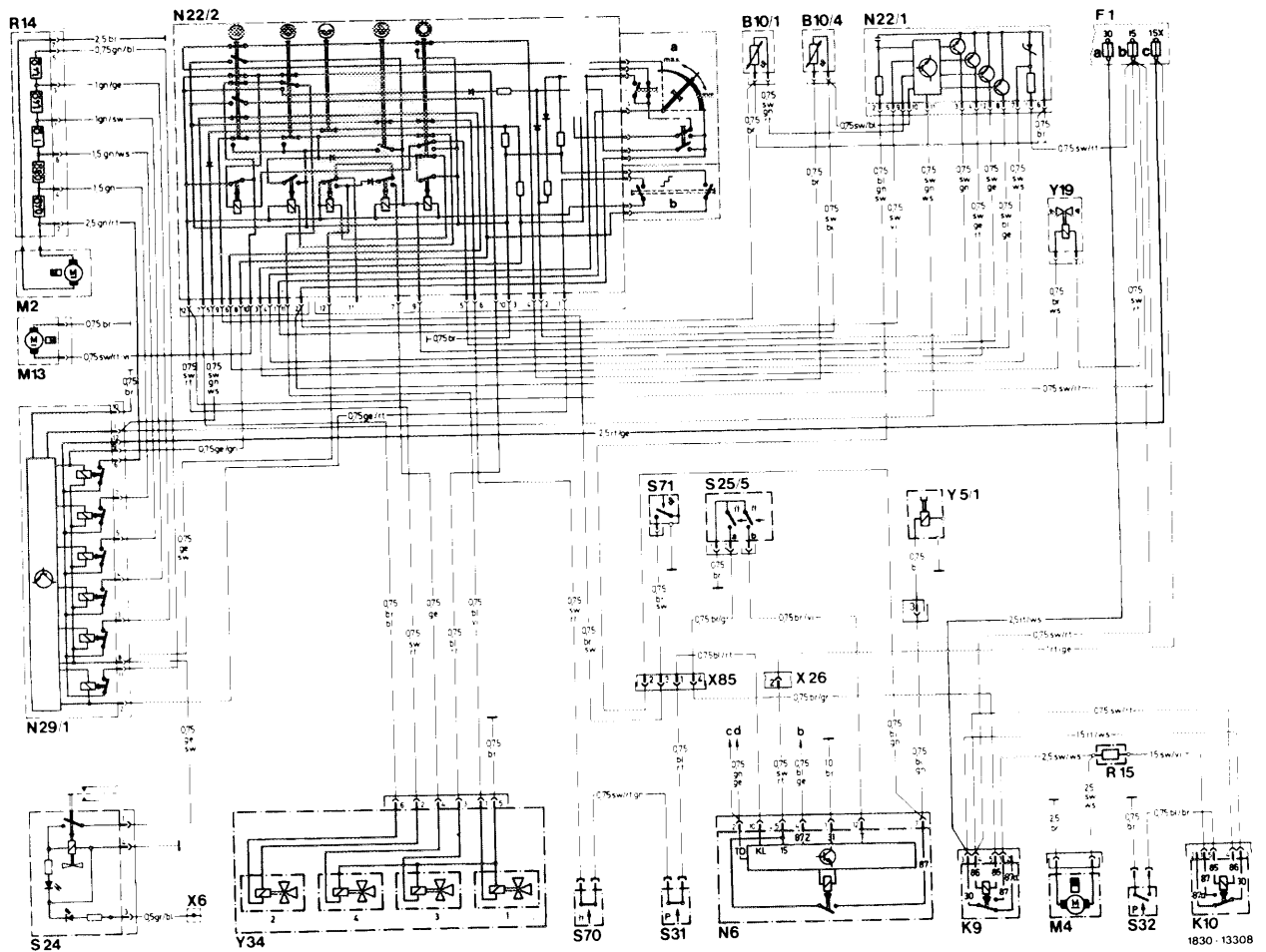
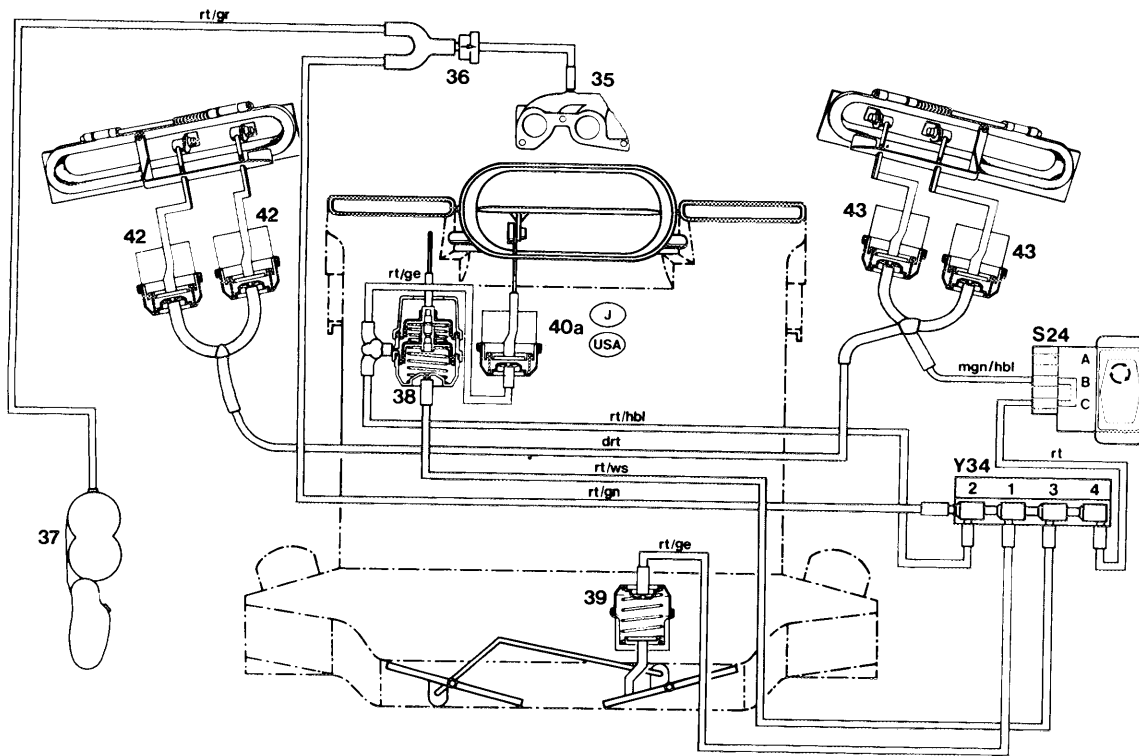



Fig. 83/12 Wiring diagram, automatic climate control, model 107

B 10/1	Temperature sensor heat exchanger	R 14	Blower motor pre-resistor group	Y 5/1	Electromagnetic clutch air conditioning compressor
B 10/4	In-car temperature sensor	R 15	Auxiliary fan pre-resistor	Y 19	Monovalve
F 1	Fuse box	S 24	Switch for fresh/recirculating air	Y 34	Switchover valve unit, 4 connections
	a Fuse 14:16 amps	S 25/5	Coolant temperature switch 105/115 °C		1 Switchover valve for legroom flaps
	b Fuse 7: 8 amps		a 105°C for auxiliary fan		2 Switchover valve for defroster flaps (short stroke) and center air flap
	c Fuse 6:16 amps		b 115°C for compressor engine overheat cutout		3 Switchover valve for defroster flaps (long stroke)
K 9	Auxiliary fan relay	S 31	Refrigerant low pressure switch, closed 2.6 bar/open 2.0 bar		4 Switchover valve for main air flaps
K 10	Auxiliary fan pre-resistor relay	S 32	Refrigerant high pressure switch, closed 20 bar/open 15 bar		
M 2	Blower motor	S 70	ETR switch	b	To idle speed control unit, pin socket 3
M 4	Auxiliary fan	S 71	Temperature switch (cold engine lock-out)	c	To fuel pump relay, pin socket 10
M 13	Auxiliary coolant pump	X 6	Connector terminal 58 d	d	To idle speed control unit, pin socket 10
N 6	Compressor cutout control unit	X 26	Plug connection, engine harness		
N 22/1	Electronic control unit for temperature control	X 85	Plug connection, climate control harness/engine harness, 4-terminal		
N 22/2	Pushbutton switch unit				
	a Temperature selector wheel				
	b Blower switch				
N 29/1	Electronic control unit for blower				

Vacuum function diagram

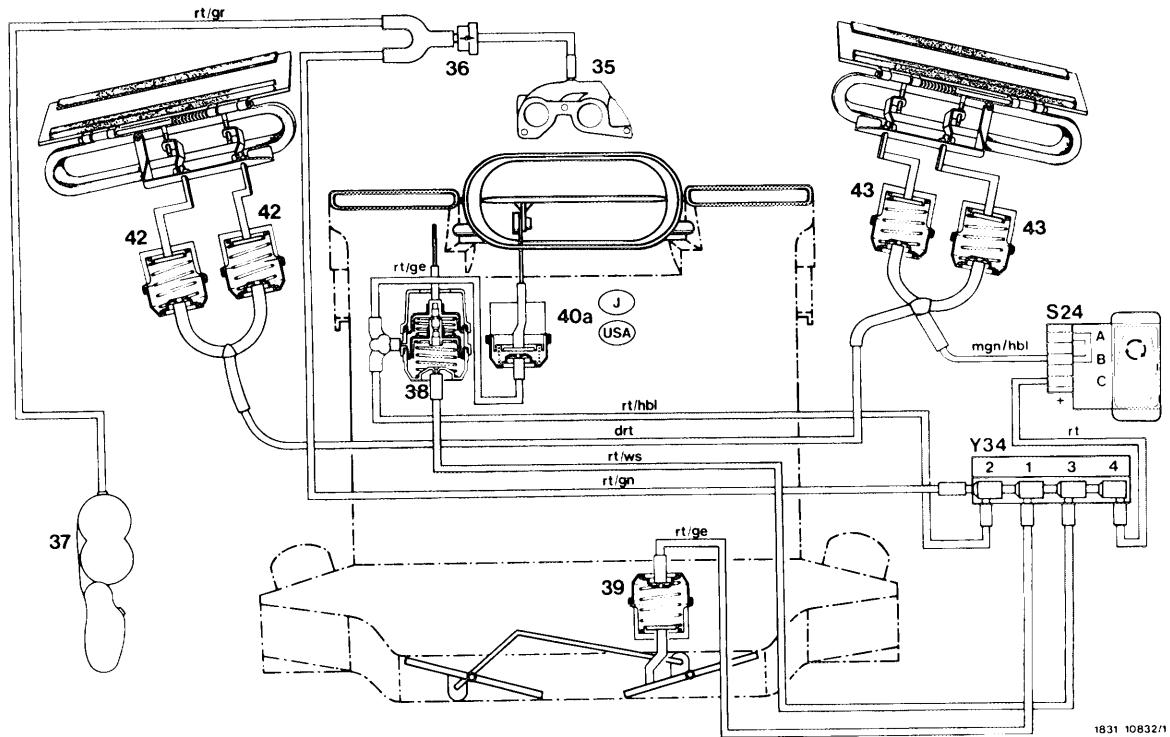


1831-10826/2


Fig. 83/13 Vacuum diagram, automatic climate control model 107, function selection  cooling mode, fresh air. Fresh/recirculating air switch (S 24) off.

- | | | | |
|------|---|------|--|
| S 24 | Fresh/recirculating air switch | 35 | Vacuum connection on intake manifold |
| Y 34 | Switchover valve unit, 4 connections | 36 | Check valve |
| 1 | Switchover valve for legroom flaps | 37 | Vacuum supply tank |
| 2 | Switchover valve for defroster flaps (short stroke) and center air flap | 38 | Vacuum element for defroster flaps (flaps "closed") |
| 3 | Switchover valve for defroster flaps (long stroke) | 39 | Vacuum element for legroom flaps (flaps "closed") |
| 4 | Switchover valve for main air flaps | 40 a | Vacuum element for center outlet flap (flap "open") |
| | | 42 | Vacuum element for main air flap left (flap "open") |
| | | 43 | Vacuum element for main air flap right (flap "open") |

B Supplement as of Model Year 1986



1831 10832/1

Fig. 83/14 Vacuum diagram, automatic climate control model 107, function selection  cooling mode, fresh air. Fresh/recirculating air switch (S 24) on.

S 24	Fresh/recirculating air switch	36	Check valve
Y 34	Switchover valve unit, 4 connections	37	Vacuum supply tank
1	Switchover valve for legroom flaps	38	Vacuum element for defroster flaps (flaps "closed")
2	Switchover valve for defroster flaps (short stroke) and center air flap	39	Vacuum element for legroom flaps (flaps "closed")
3	Switchover valve for defroster flaps (long stroke)	40 a	Vacuum element for center flap (flap "open")
4	Switchover valve for main air flaps	42	Vacuum element for main air flap left (flap "closed" with 80% recirculated air)
35	Vacuum connection on intake manifold	43	Vacuum element for main air flap right (flap "closed" with 80% recirculated air)