Description of Function

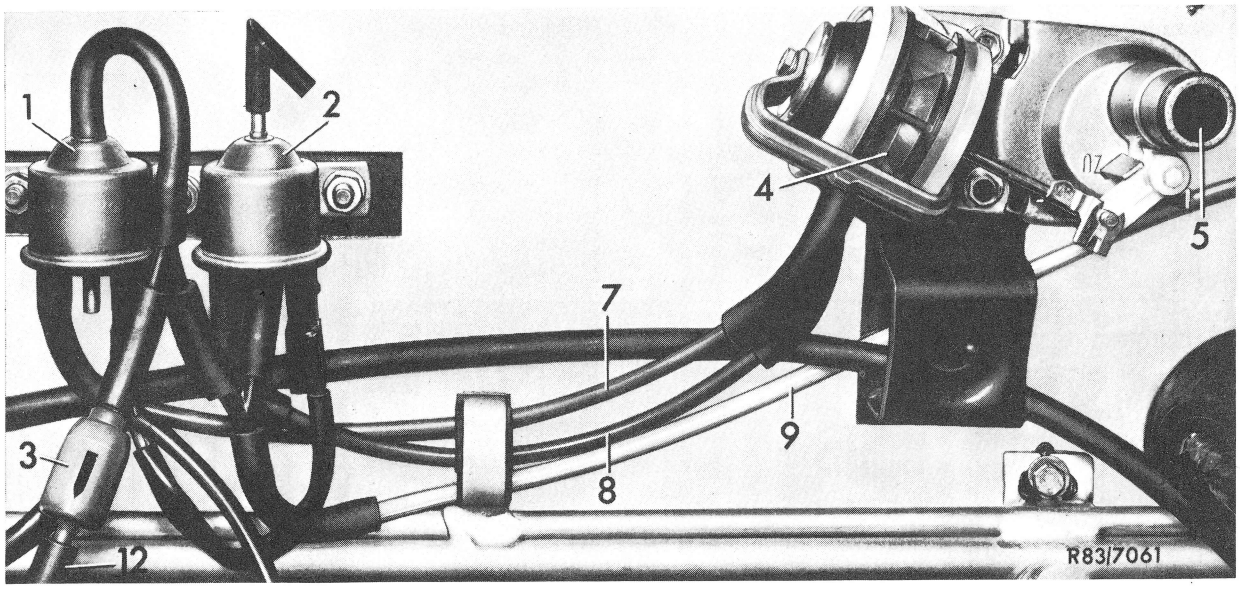

Figure 1 Arrangement of control system

1 Control valve 1
2 Control valve 2
3 Check valve
4 Vacuum element
5 Heater valve
7, 8 Venting line or vacuum line
9 Vacuum line to supply tank
12 Vacuum line to suction pipe

The controls of the heating system include the following sections:
electrical section (micro switch and magnetic valves),
pneumatic section (vacuum control),
mechanical section (heater valve).

a) Electrical Section

The two outer operating levers of the heating system serve to actuate one micro swith (28) each.

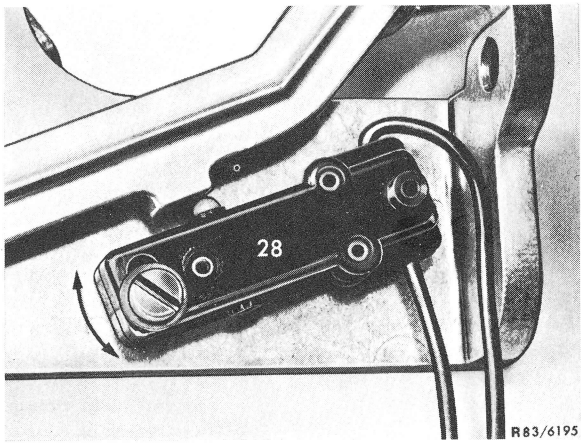

Figure 2
28 Micro switch on control system

If both outer levers are in their lowermost position (cold), the power circuit is interrupted (wiring diagram heater closed).

Switch Position "Heater Closed"

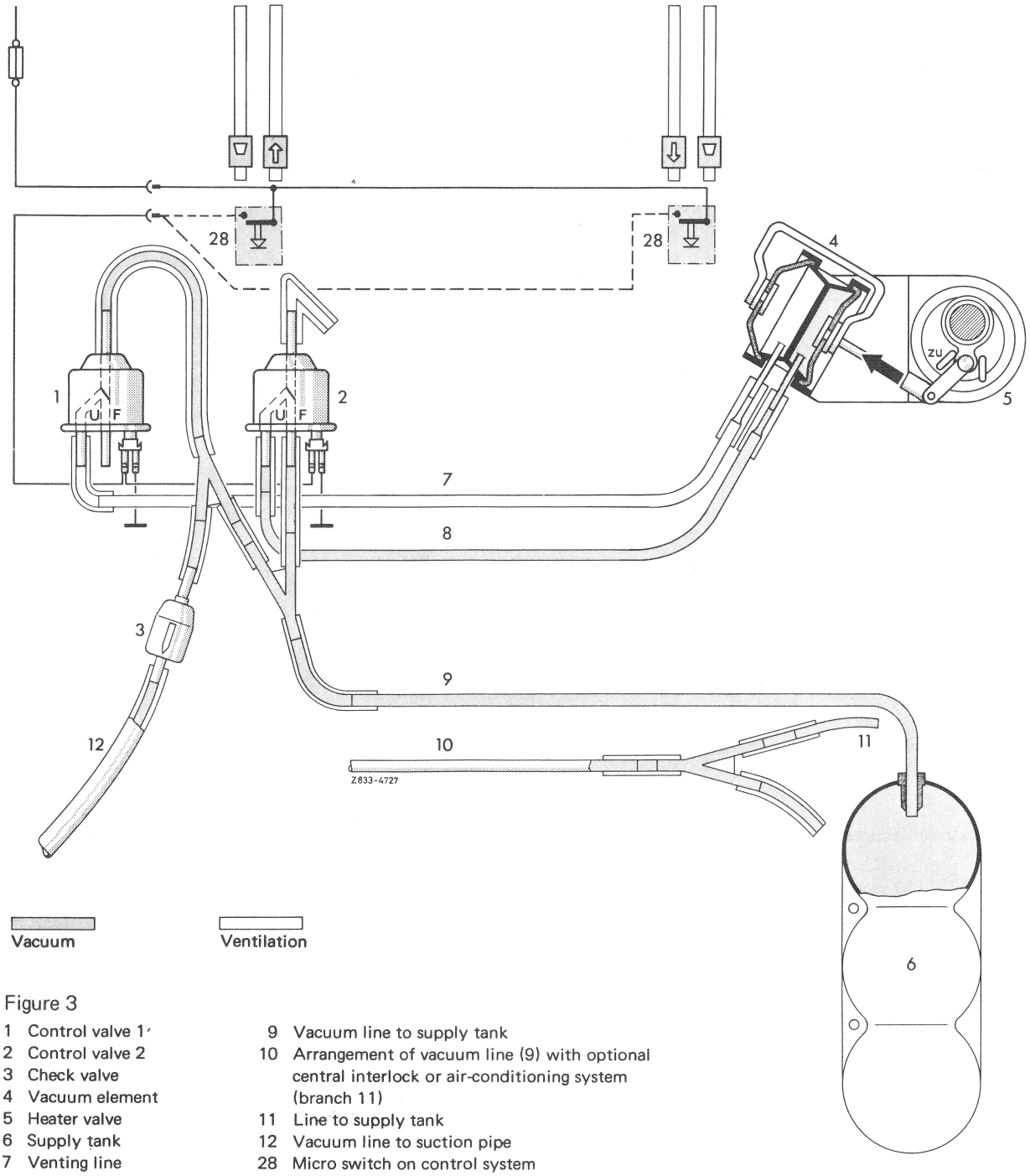

Figure 3

1 Control valve 1
2 Control valve 2
3 Check valve
4 Vacuum element
5 Heater valve
6 Supply tank
7 Venting line
8 Vacuum line
9 Vacuum line to supply tank
10 Arrangement of vacuum line (9) with optional central interlock or air-conditioning system (branch 11)
11 Line to supply tank
12 Vacuum line to suction pipe
28 Micro switch on control system

Switch Position "Heater Open"

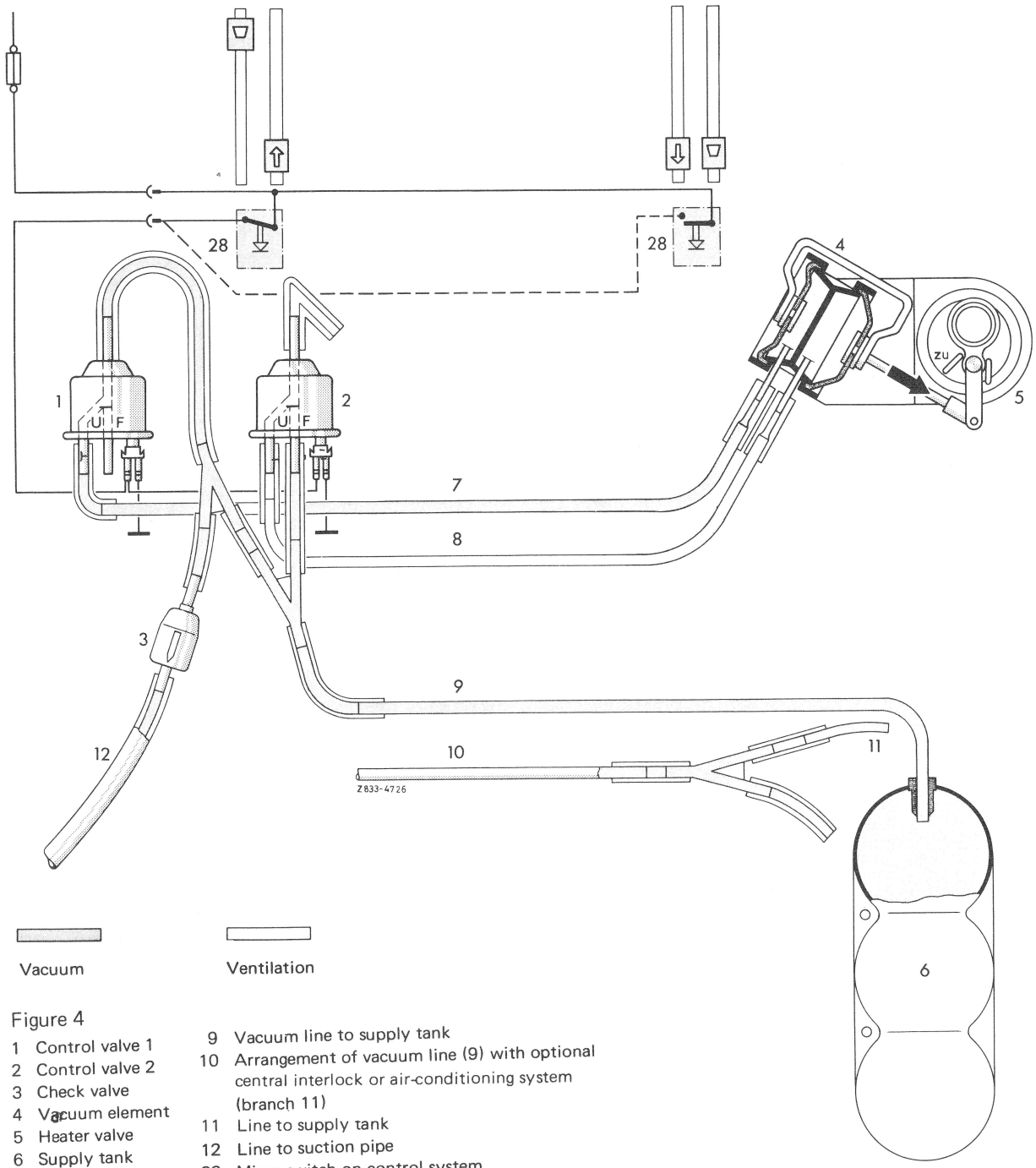

Figure 4

1 Control valve 1
2 Control valve 2
3 Check valve
4 Vacuum element
5 Heater valve
6 Supply tank
7 Vacuum line
8 Venting line
9 Vacuum line to supply tank
10 Arrangement of vacuum line (9) with optional central interlock or air-conditioning system (branch 11)
11 Line to supply tank
12 Line to suction pipe
28 Micro switch on control system

Each of these micro switches is always used to control both control valves (1 and 2). Both valves are located at the front wall at the right in the engine compartment.

If one of the two outer levers is moved upwards, the micro switch is actuated and the circuit is closed. Valves (1 and 2) will change over.

b) Pneumatic Section

The design of both valves is the same. The vacuum lines ar connected differently to valves.

In the position "heater closed" (both operating levers for the heater are at bottom) valve 1 for the vacuum is closed.

Valve 2 opens the path for the vacuum to the vacuum element (4). There is now a connection between the line to the suction pipe via connection F of valve 2 to connection U and via line (8) to the vacuum element.

The vacuum element is vented via line (7) and connections U and F on valve 1.

In position "heater open" (at least one operating lever for the heater is moved in the direction of "heating" to the extent that the power circuit is closed by the micro switch) the connection between the vacuum element and the line toward the suction pipe is established via the connection U of valve 1 and line (7). The vacuum element is vented via line (8), connection U and the upper connection on valve 2.

Lines 9 or 10 and 11 establish the connection between the suction pipe and the supply tank (6). This supply tank is in the legroom at the left, behind the panelling of the front wall pillar.

Color code:

Line	Color	Remarks
9 10	green red	up to approx. August 1971
9 10	red green	as from approx. Sep 1971
11	medium green white	in version without option for air-conditioning system or central interlock

c) Mechanical Section

The heater valve can be switched to position "open" or "closed". Intermediate positions are not possible. The air outlet temperature on heater is controlled by means of air guide flaps which are actuated by the two outer heater control levers.