



## 82.4

## Electric window opener

5 Remove cover on front wall pillars left and right, and take off the cover strips from the entrances.

6 Remove front seats.

7 Remove cover for floor shift lever (refer to job no. 68-230).

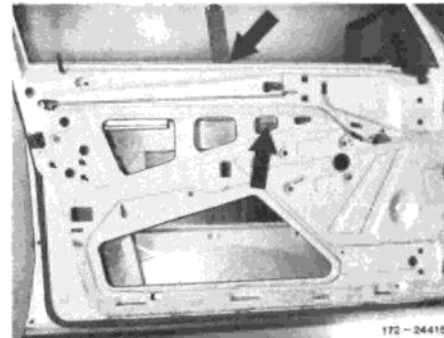
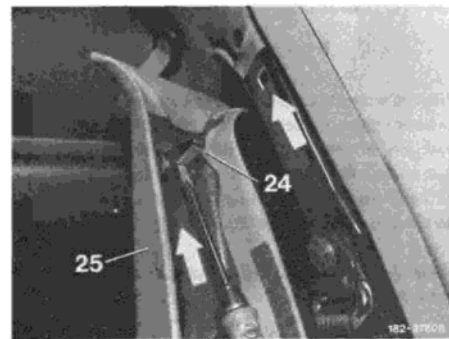
8 Remove underpart of center console (refer to job no. 68-200).

9 For four-door installation, remove trim (25) for the center pillar right and left. Press the spring (24) together with a screwdriver in the direction of the arrow. Pull the trim off of the center pillar in the direction of the middle of the vehicle.

10 Carefully detach carpet beginning at the transmission tunnel and at the entrances.

11 Remove all window openers, push the windows up and secure them against falling with a plastic wedge.

12 Remove lower closing grommets on doors, front wall pillars and center pillars.



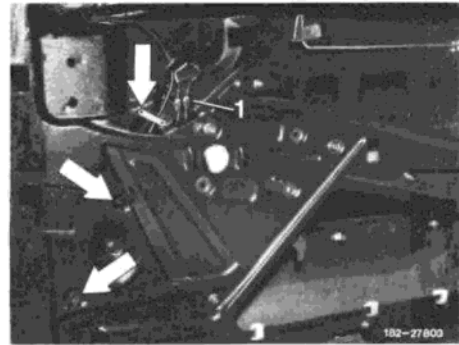


## Electric window opener

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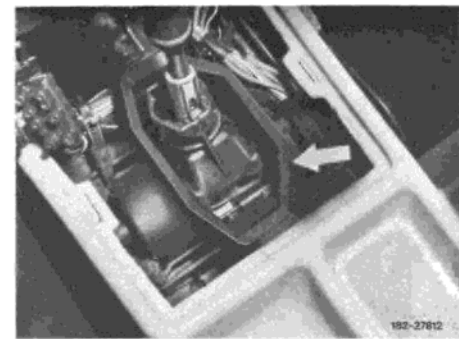
13 Clip in the 2-point line connectors in the right-hand and lefthand front doors.

14 Remove the line cover on the side member front left and right.

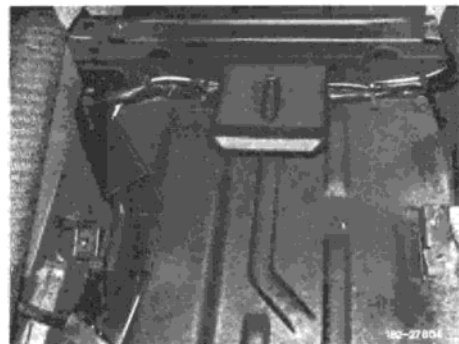
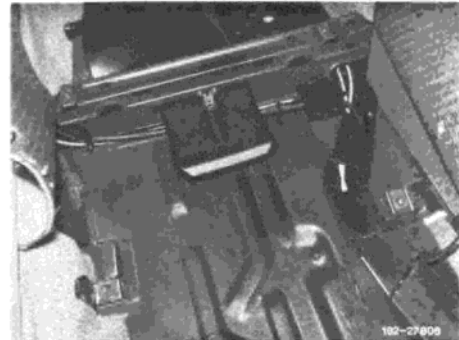


15 Install auxiliary harness beginning in front of the shift lever bracket along the front cross member to the left and right, and fasten with cable straps.

16 In vehicles with manual transmission, mount cover (arrow) on the shift lever bracket (4 new screws, micro-encapsulated).



17 For the rear doors, install auxiliary harness toward the back in the existing ducts.





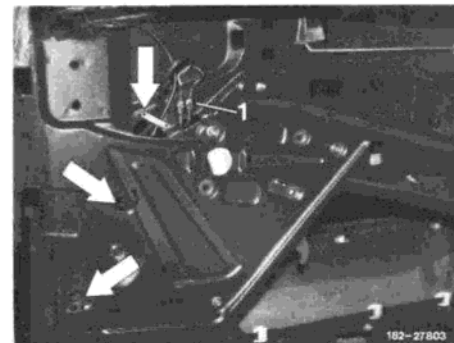
## 82.4

## Electric window opener

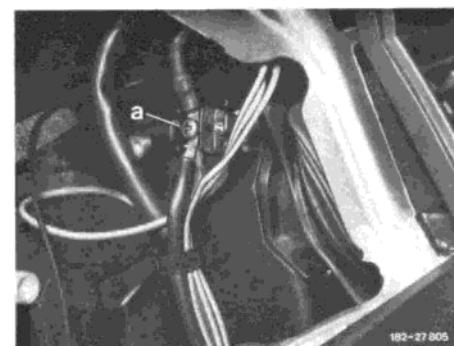
18 Pull the auxiliary harness with a guide wire into the door pillars (arrow), protective hoses and doors.



19 Attach harness with cable straps and clips (arrows) to the doors.

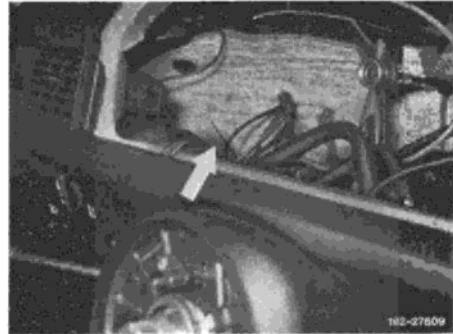


20 Install line (4 mm cable terminal) in the existing cable straps on the transmission tunnel toward the front (to the right behind the instrument cluster) and connect to line connector „a“ (terminal 58 d) on the heater unit.

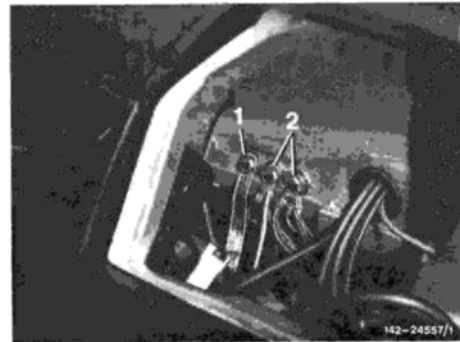




21 Loosen sound-proofing mat (arrow) and fold it upwards.

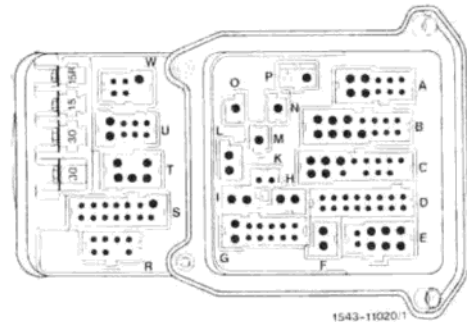


22 Install ground wire from the auxiliary harness to the heater unit and connect to the main ground (2).



- 1 Ground for central electric system
- 2 Ground for harnesses

23 Plug in the 2-point coupler from the auxiliary harness from below into the central electric system, line-up J.



Central electric system  
(View from below)

24 Plug the 2-point coupler from the harness for the door contact switch from below into the central electric system, line-up K, and install to the left door contact switch and connect to the switch.





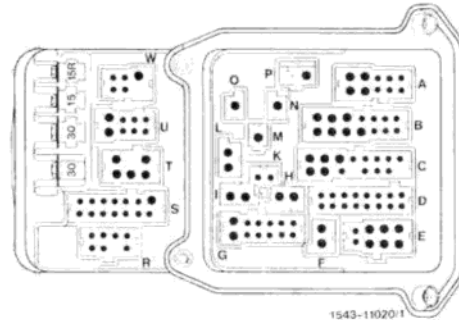


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25 Plug 2-point coupler with diode (comfort circuit) into the central electric system, line-up F, from below.

26 Install door contact switch in lefthand door pillar.

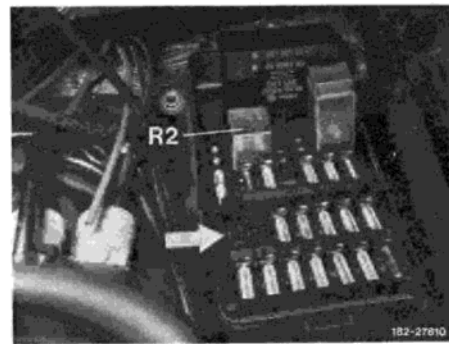


27 Plug on relay R2.

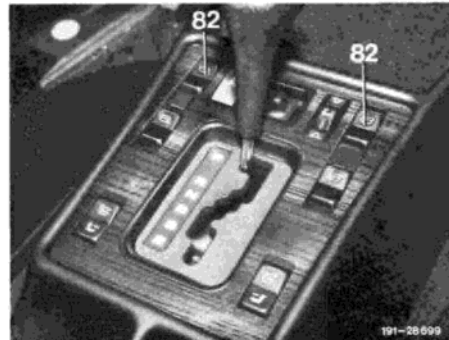
28 Push fuses (16 A) into line-ups 7 and 8 (arrow).

29 Attach lid and close fusebox.

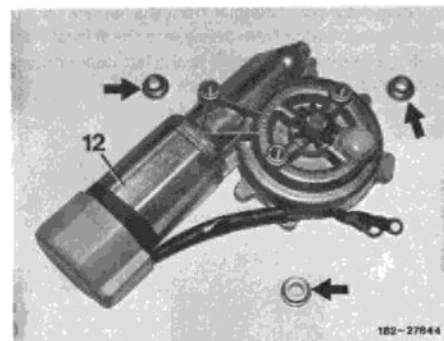
30 Install underpart of center console (refer to job no. 69-200).



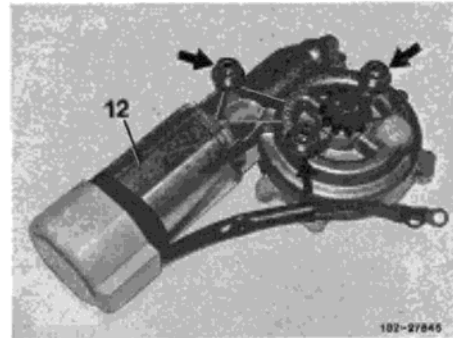
31 Set switch (82) in the shift lever cover, press couplers on the switch and mount cover.



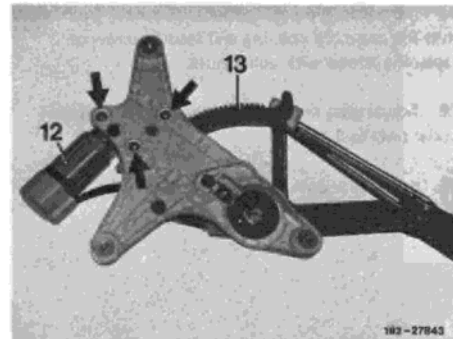
32 Set the centering bushings (arrow) on the front window motors.



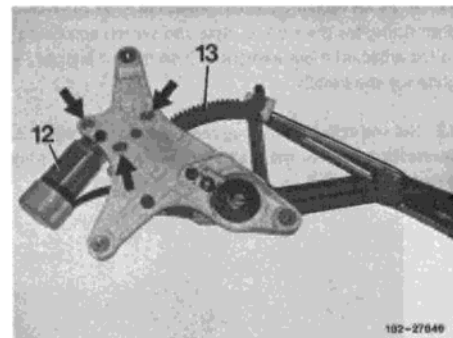




33 Lay window opener on guide bushings.



34 Screw the motor onto the front window opener with three screws and tighten to 7 Nm. Then grease gear teeth.



35 Connect motor to voltage and let the opener run downwards.

36 Introduce window opener with motor from below into respective door.



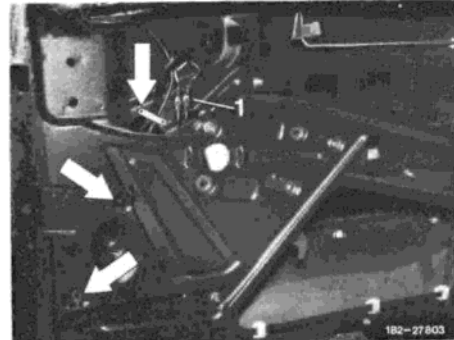


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37 Pull glass down and introduce guide member of window opener into slide rail, while paying attention to perfect seating of the guide member.

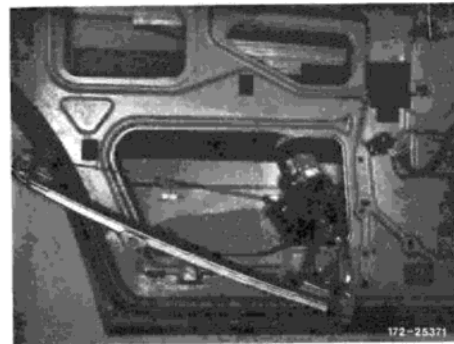
38 Connect electric line of the window opener motor to the 2-point line connector (1).



39 Introduce window opener with motor from below into the assembly opening and loosely screw on fastening screws with collar nuts.

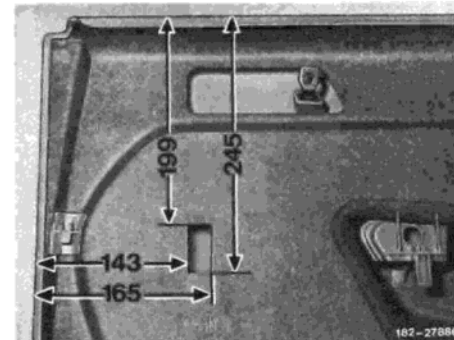
40 Adjust glass and window opener. Then tighten collar nuts to 7 Nm.

41 Install rear door window openers (refer to job no. 72-187).



42 Make an opening with a firmer chisel in the rear door lining for the anchor plate and switch according to the adjacent measurements. Then mount anchor plate for the switch.

43 Set the attachment plug receptacle of the electrical connection line for the rear window motor in the plug coupler as marked.



44 Tape the inside door panel with sealing sheets.

45 Install door linings.



- 46 Attach the coupler to the switch and press switch into rear door lining (arrow).
- 47 Install linings on the front wall pillars left and right.
- 48 Glue carpet on side members and drive shaft tunnel.



- 49 Install cover strips on entrance.
- 50 Install front seats.
- 51 Install flexible air hose behind instrument cluster.
- 52 Attach connections of the instrument cluster and install instrument cluster.
- 53 Install steering wheel with new screw and tighten to 100 Nm.
- 54 Connect ground cable to battery.
- 55 Test all window openers for correct functioning, also paying attention to the comfort circuit.
- 56 Insert the floor mats and clean windows and linings.

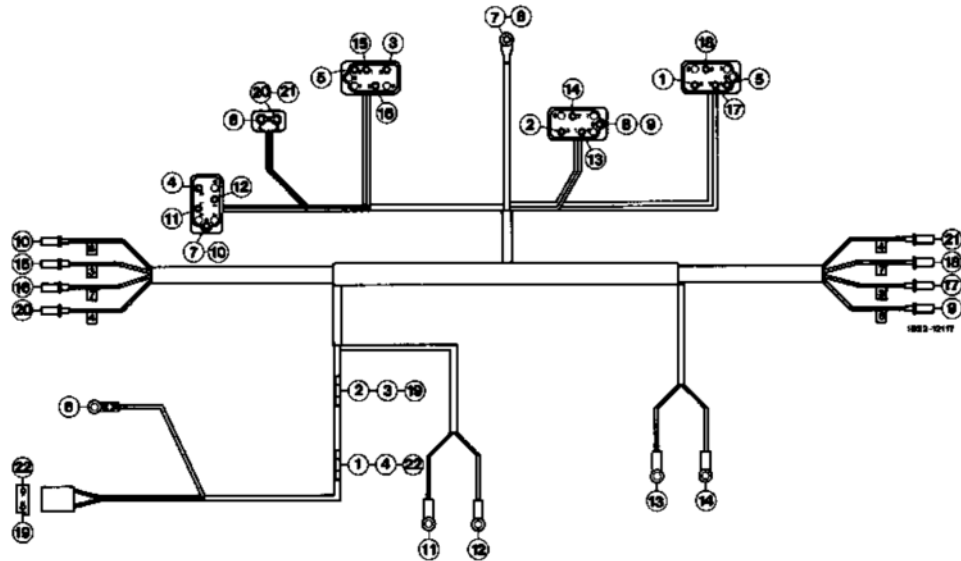












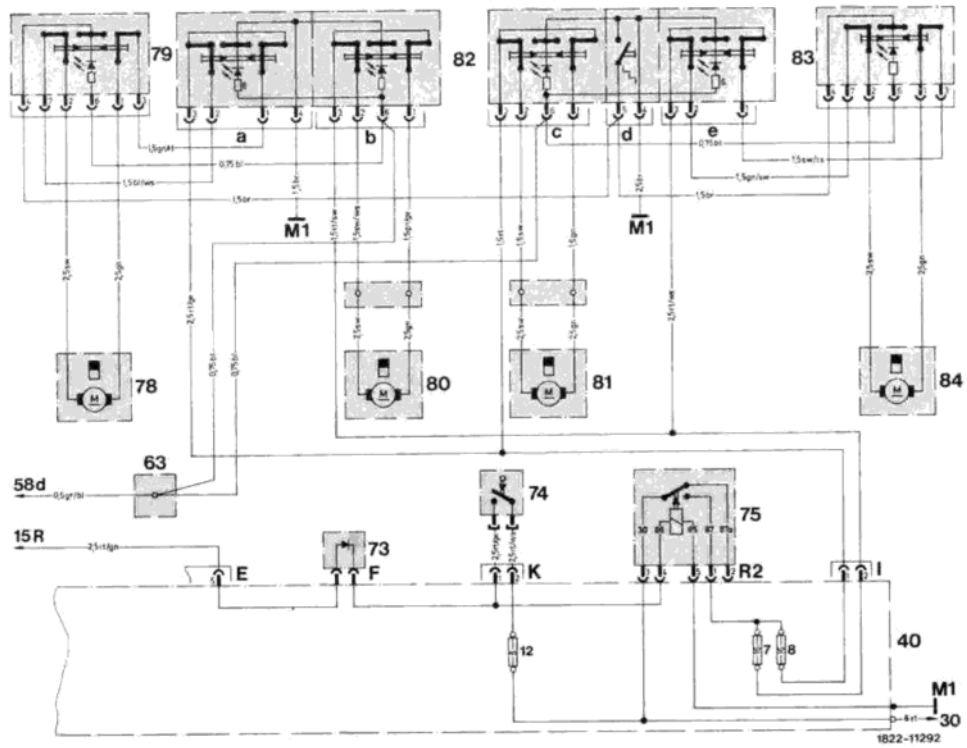
Color code, electric harness, window opener 4-fold

Line no.	Electric line from	to	Color code	Cross section mm <sup>2</sup>
1	6-point coupler	Supporting point	red/yellow	2.5
2	6-point coupler	Supporting point	red/black	1.5
3	6-point coupler	Supporting point	red/white	2.5
4	6-point coupler	Supporting point	red	1.5
5	6-point coupler	6-point coupler	brown	1.5
6	2-point coupler	Ground	brown	2.5
7	Supporting point terminal 58d	6-point coupler	blue	0.75
8	Supporting point terminal 58d	6-point coupler	blue	0.75
9	6-point coupler	6-point coupler	blue	0.75
10	6-point coupler	6-point coupler	blue	0.75
11	6-point coupler	6-point coupler	green	1.5
12	6-point coupler	2-point coupler	black	1.5
13	6-point coupler	2-point coupler	green/yellow	1.5
14	6-point coupler	2-point coupler	black/white	1.5
15	6-point coupler	6-point coupler	black/pink	1.5
16	6-point coupler	6-point coupler	green/black	1.5
17	6-point coupler	6-point coupler	green/red	1.5
18	6-point coupler	6-point coupler	blue/white	1.5
19	Supporting point	2-point coupler	red/white	2.5
20	2-point coupler	6-point coupler	brown	1.5
21	2-point coupler	6-point coupler	brown	1.5
22	2-point coupler	Supporting point	red/yellow	2.5



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### Wiring diagram

- |   |  |
|---|--|
| 15R to ignition switch                          | 78 Window opener motor, right rear         |
| 40 Central electric system                      | 79 Window switch, right rear               |
| Fuse 7: Window opener right front and left rear | 80 Window opener motor, right front        |
| Fuse 8: Window opener left front and right rear | 81 Window opener motor, left front         |
| Fuse 12: Relay, window opener                   | 82 Window opener switch group              |
| E 8-point coupler, ignition switch harness      | a Window switch, right rear                |
| I 2-point coupler, window opener harness        | b Window switch, right front               |
| K 2-point coupler, door contact switch harness  | c Window switch, left front                |
| 58d to rheostat, instrument panel               | d Safety switch                            |
| 63 Line connector terminal 58d                  | e Window switch, left rear                 |
| 73 Window opener diode (comfort circuit)        | 83 Window switch, left rear                |
| 74 Door contact switch window opener            | 84 Window opener motor, left rear          |
| 75 Relay, window opener                         | M1 Main ground (behind instrument cluster) |



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### How-to-order note

Parts required for installation are available under the following part number:

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Scope of delivery	SA 56.457
The following parts must be ordered in addition:	
2 anchor plates for switches in the rear door lining with color indication	SA 56.457
1 cover for switch in center console	ET-microfiche group 67
Door linings	ET-microfiche group 72 or 73
Door linings for deluxe trim	SA 56.410

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When placing order, be sure to name designation of trim, e.g., fabric or MB-Tax.

SA = special equipment

ET = spare parts

Responsible for delivery: Plant 50 (PEW Sindelfingen)

