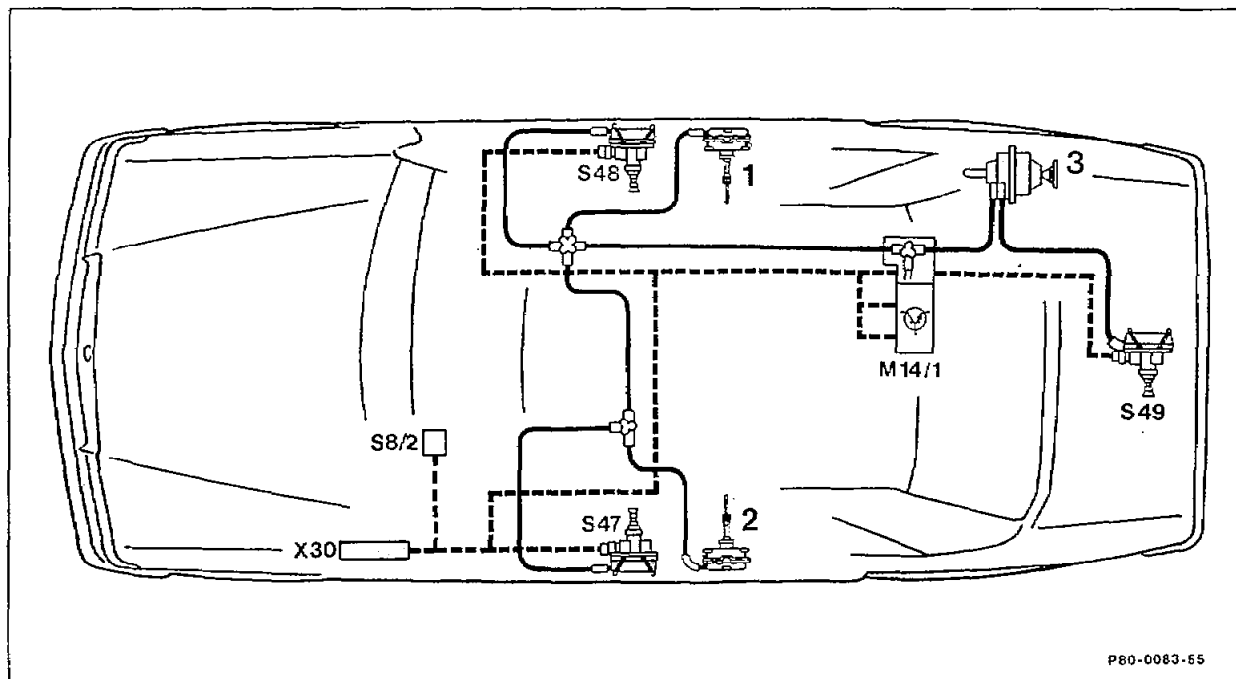


A. LHD sedan

1st version up to approx. 08/90



P80-0083-65

- |       |   |      |  |
|-------|---|------|--|
| 1     | Right rear door actuator                                | S47  | Left front door actuator                       |
| 2     | Left rear door actuator                                 | S48  | Right front door actuator                      |
| 3     | Fuel filler flap actuator                               | S49  | Trunk lid lock actuator                        |
| M14/1 | Supply pump, central locking system                     | X30  | Connector block, optional electrical equipment |
| S8/2  | Warning buzzer contact, lighting/central locking system | ---- | Electric lead                                  |
|       |   | —    | Pneumatic line                                 |

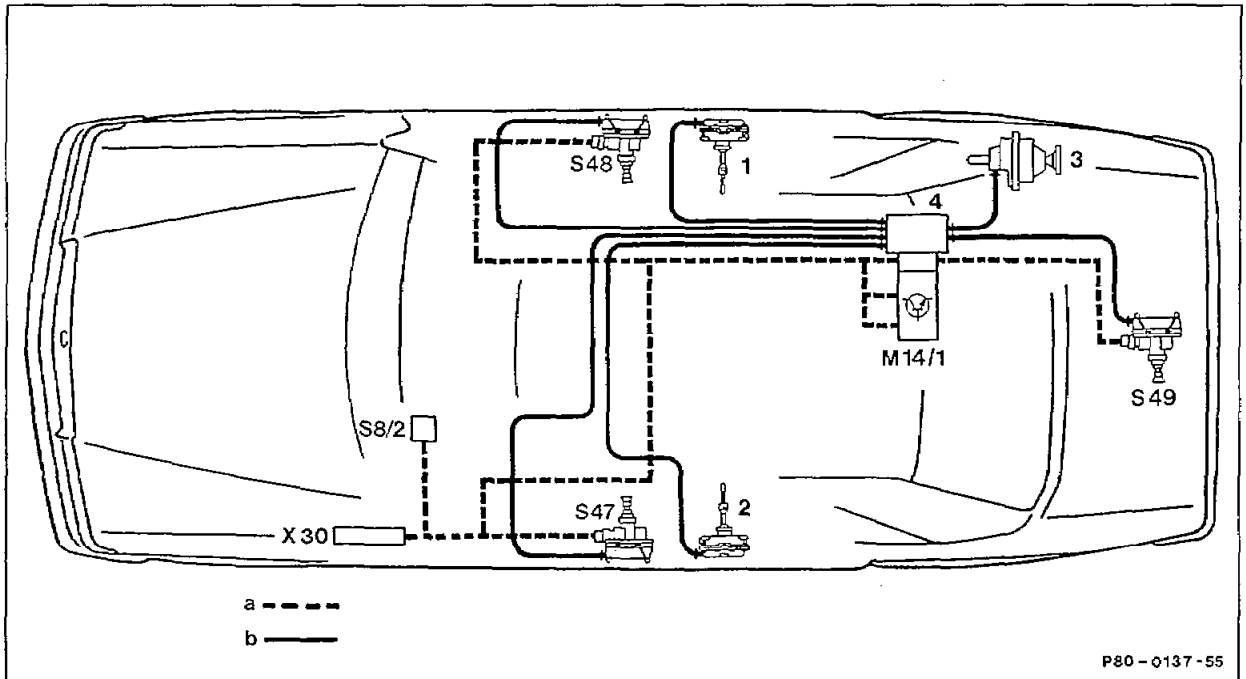
2nd version

Production breakpoint:

Vehicle ident. end no.

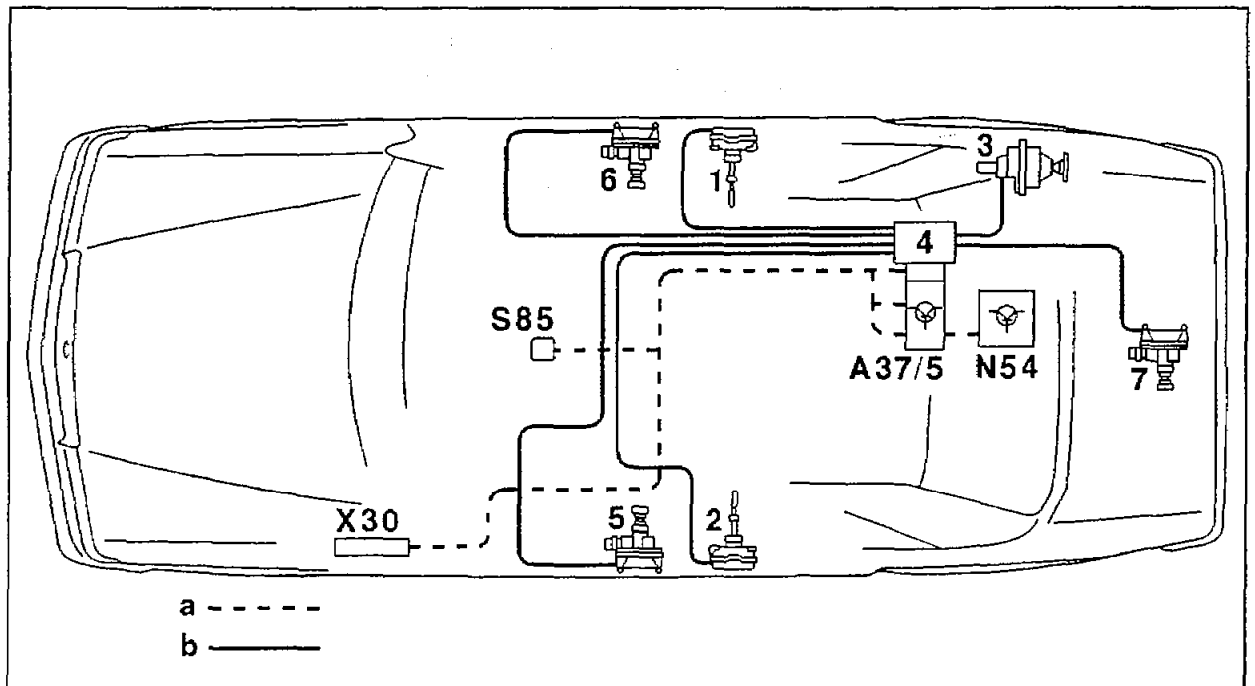
as of up to  
 1A 861403 1A 866954  
 1F 097724 1F 098305

and across the range from approx. 09/90



- |       |                                     |       |  |
|-------|-------------------------------------|-------|--|
| 1     | Right rear door actuator            | S49   | Trunk lid lock actuator  |
| 2     | Left rear door actuator             | S8/2  | Warning buzzer contact, exterior lamps/central locking system (ZV) |
| 3     | Fuel filler flap actuator           | X30   | Plug connection block for optional equipment                       |
| 4     | 6-way distributor                   | - - - | Electric lead  |
| M14/1 | Supply pump, central locking system | —     | Pneumatic line   |
| S47   | Left front door actuator            |       |  |
| S48   | Right front door actuator           |       |  |

3rd version for (D) only as of 03/94 and vehicles with code 885

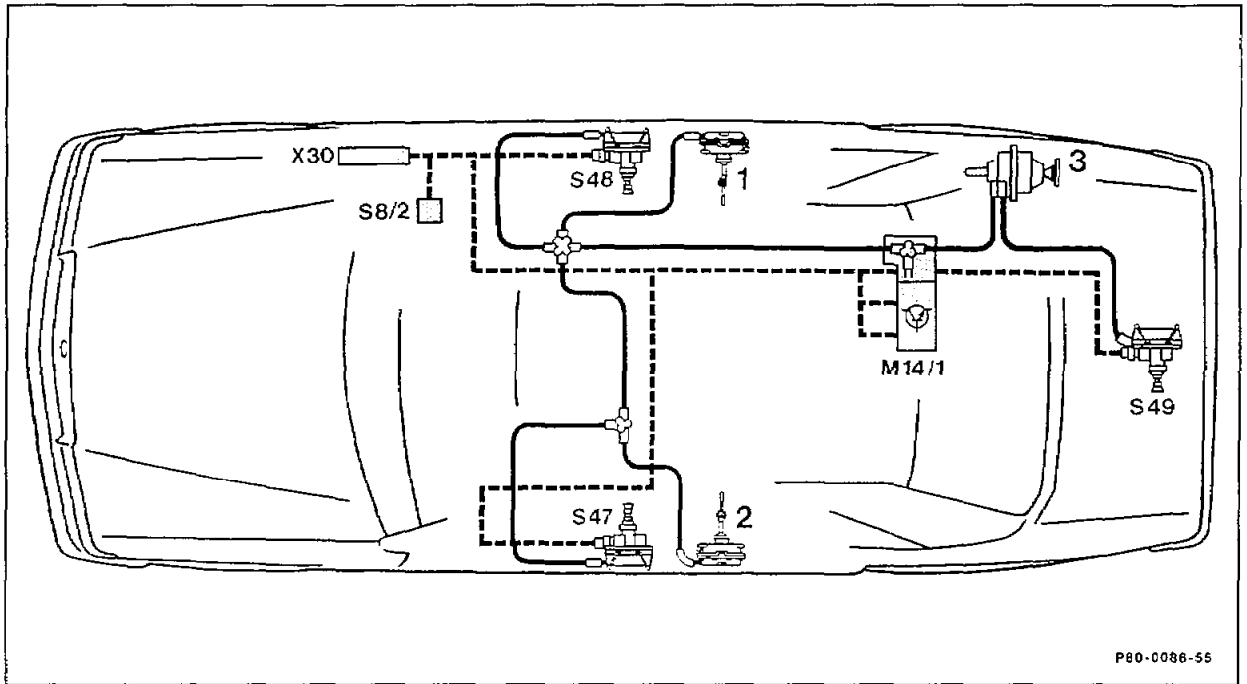


P80-5234-55

- |   |                                      |       |   |
|---|--------------------------------------|-------|---|
| 1 | Right rear door actuator             | A37/5 | Pneumatic control unit                                  |
| 2 | Left rear door actuator              | N54   | Infrared remote control unit for central locking system |
| 3 | Tank flap actuator                   | S85   | Interior central locking system switch                  |
| 4 | Distribution plug with 6 connections | X30   | Plug connection block for optional equipment            |
| 5 | Left front door actuator             | ----  | Pneumatic line  |
| 6 | Right front door actuator            | ———   | Electric lead   |
| 7 | Trunk lid actuator                   |       |   |

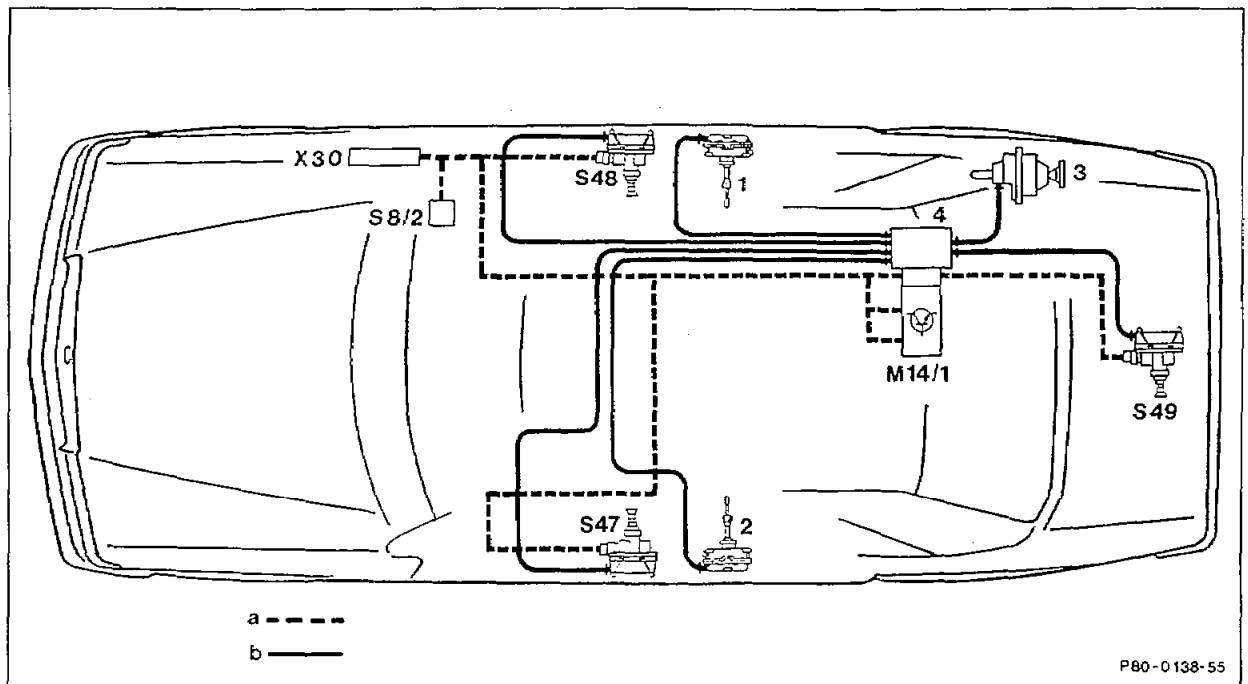
## B. RHD sedan

1st version up to approx. 08/90



|       |   |         |  |
|-------|---|---------|--|
| 1     | Right rear door actuator                                | S47     | Left front door actuator                       |
| 2     | Left rear door actuator                                 | S48     | Right front door actuator                      |
| 3     | Fuel filler flap actuator                               | S49     | Trunk lid lock actuator                        |
| M14/1 | Supply pump, central locking system                     | X30     | Connector block, optional electrical equipment |
| S8/2  | Warning buzzer contact, lighting/central locking system | - - - - | Electrical lead                                |
|       |   | — — — — | Pneumatic line                                 |

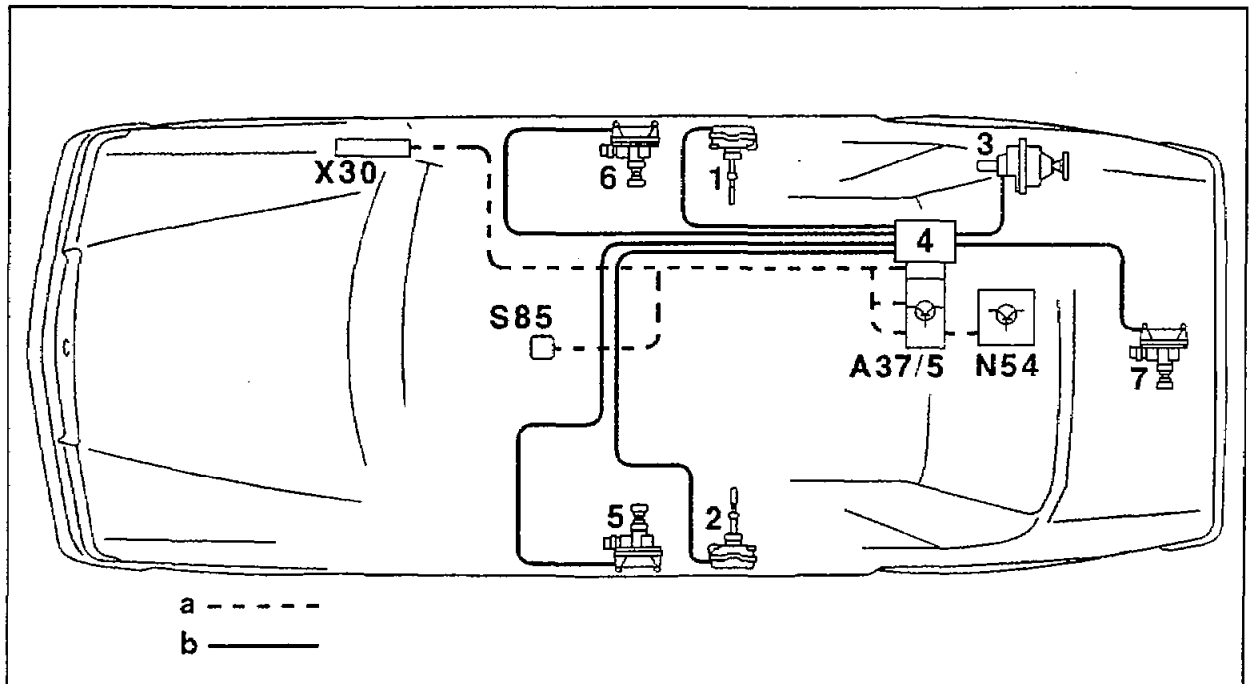
2nd version as of approx. 09/90



- 1 Right rear door actuator
- 2 Left rear door actuator
- 3 Fuel filler flap actuator
- 4 6-way distributor
- M14/1 Supply pump, central locking system
- S47 Left front door actuator
- S48 Right front door actuator

- S49 Trunk lid lock actuator
- S8/2 Warning buzzer contact, exterior lamps/central locking system (ZV)
- X30 Plug connection block for optional equipment
- Electric lead
- Pneumatic line

3rd version for  $\textcircled{D}$  only as of 03/94 and vehicles with code 885

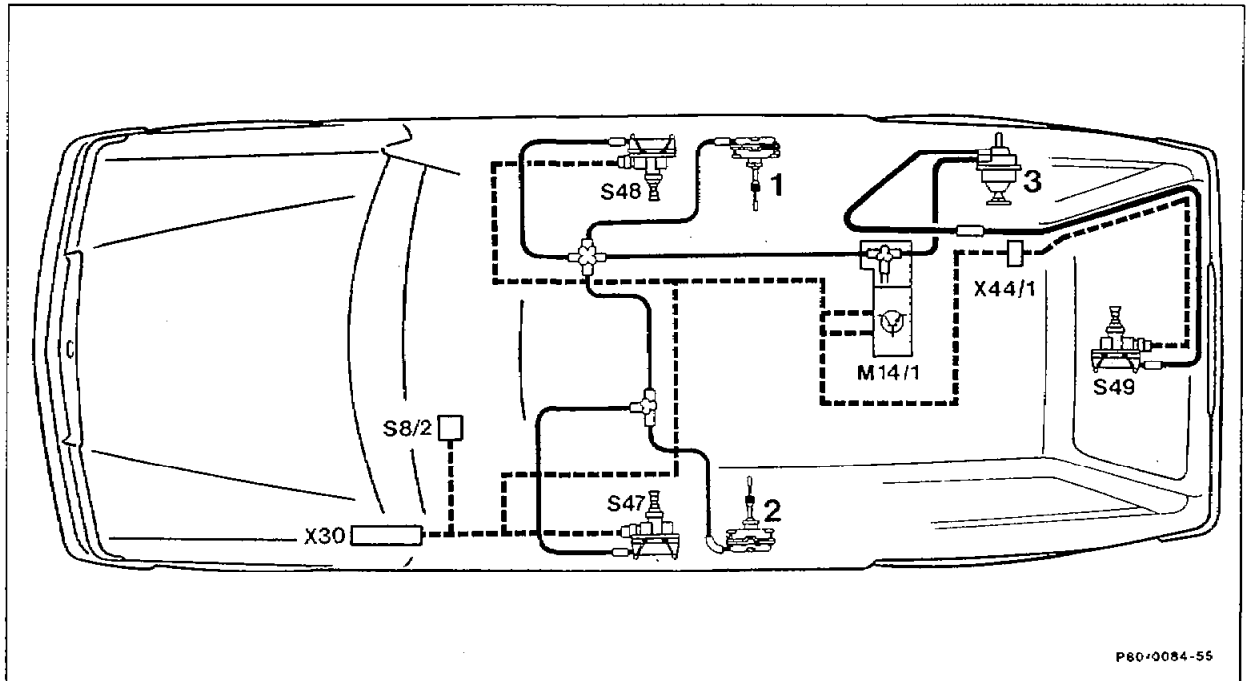


P80-5235-55

- |   |                                      |         |   |
|---|--------------------------------------|---------|---|
| 1 | Right rear door actuator             | A37/5   | Pneumatic control unit                                  |
| 2 | Left rear door actuator              | N54     | Infrared remote control unit for central locking system |
| 3 | Tank flap actuator                   | S85     | Interior central locking system switch                  |
| 4 | Distribution plug with 6 connections | X30     | Plug connection block for optional equipment            |
| 5 | Left front door actuator             | - - - - | Pneumatic line  |
| 6 | Right front door actuator            | ————    | Electric lead   |
| 7 | Trunk lid actuator                   |         |   |

## C. LHD T-models

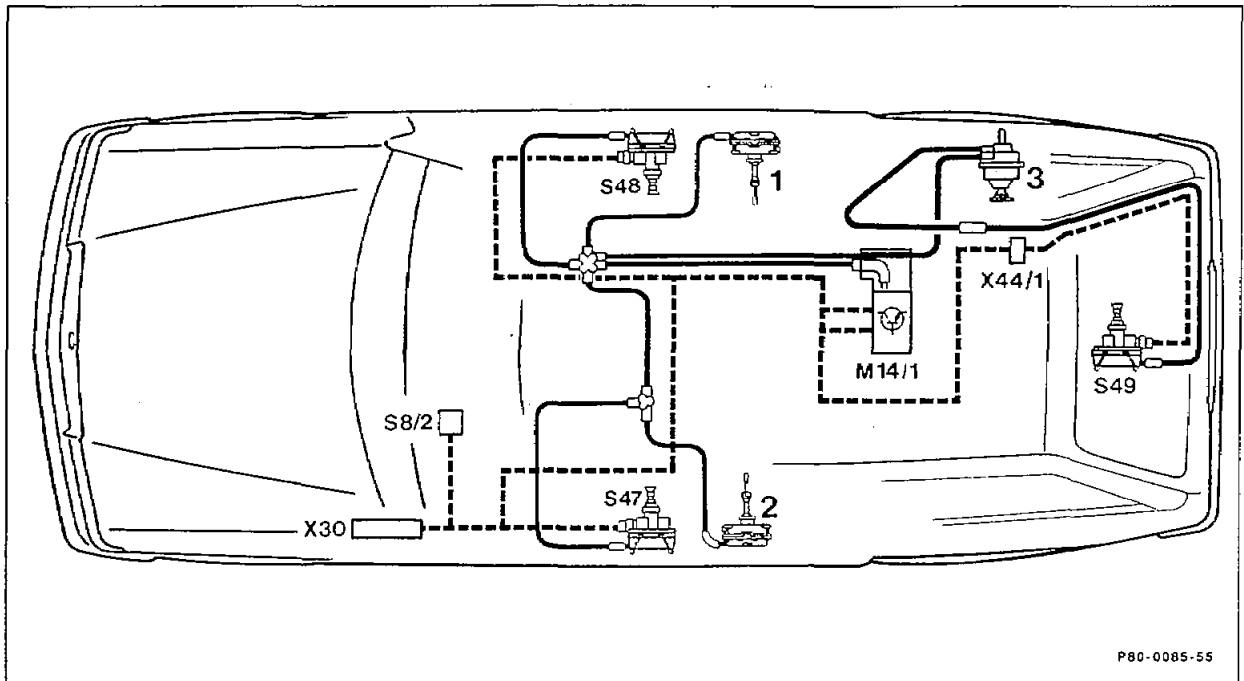
1st version up to approx. 01/86



P80-0084-55

- |       |   |         |  |
|-------|---|---------|--|
| 1     | Right rear door actuator                                | S49     | Trunk lid lock actuator                        |
| 2     | Left rear door actuator                                 | X30     | Connector block, optional electrical equipment |
| 3     | Fuel filler flap actuator                               | X44/1   | Connector central locking system/taillgate     |
| 4     | 6-point distributor                                     | - - - - | Electrical lead                                |
| M14/1 | Supply pump, central locking system                     | —       | Pneumatic line                                 |
| S8/2  | Warning buzzer contact, lighting/central locking system |         |  |
| S47   | Left front door actuator                                |         |  |
| S48   | Right front door actuator                               |         |  |

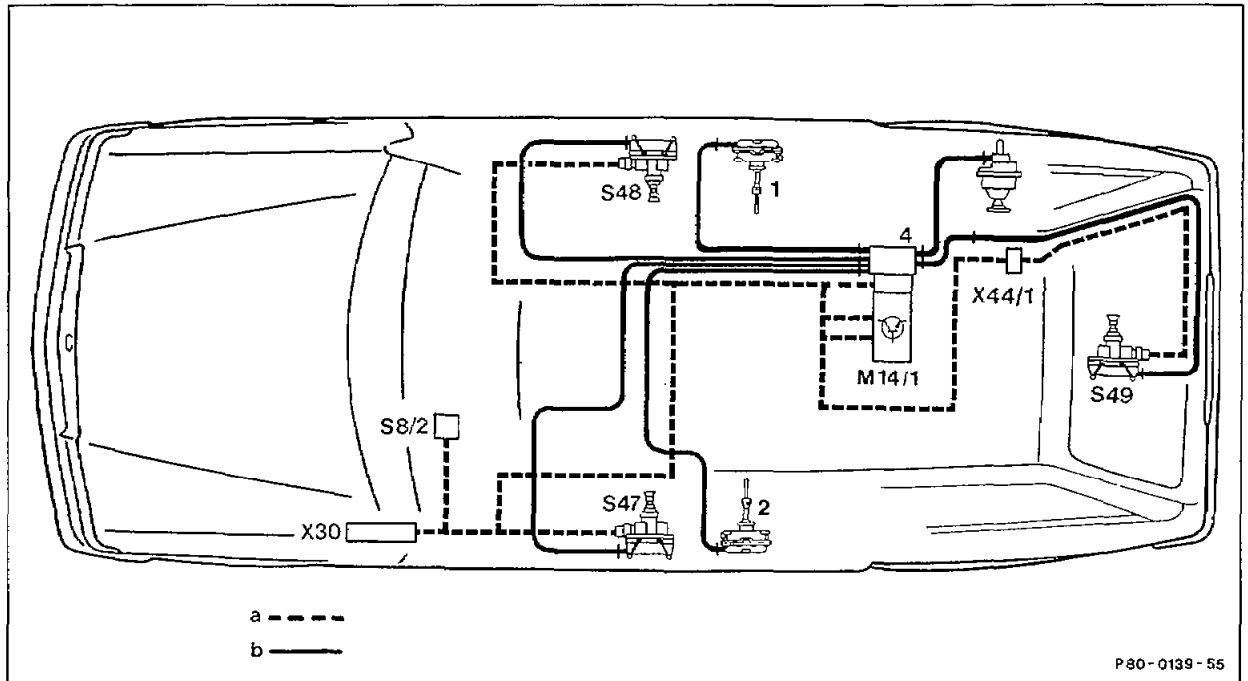
2nd version from approx. 02/86 to approx. 08/90



- |       |   |       |  |
|-------|---|-------|--|
| 1     | Right rear door actuator                                | S47   | Left front door actuator                         |
| 2     | Left rear door actuator                                 | S48   | Right front door actuator                        |
| 3     | Fuel filler flap actuator                               | S49   | Tailgate actuator                                |
| M14/1 | Supply pump, central locking system                     | X30   | Connector block, lighting/central locking system |
| S8/2  | Warning buzzer contact, lighting/central locking system | X44/1 | Connector central locking system/tailgate        |
|       |   | ----  | Electric lead                                    |
|       |   | —     | Pneumatic line                                   |



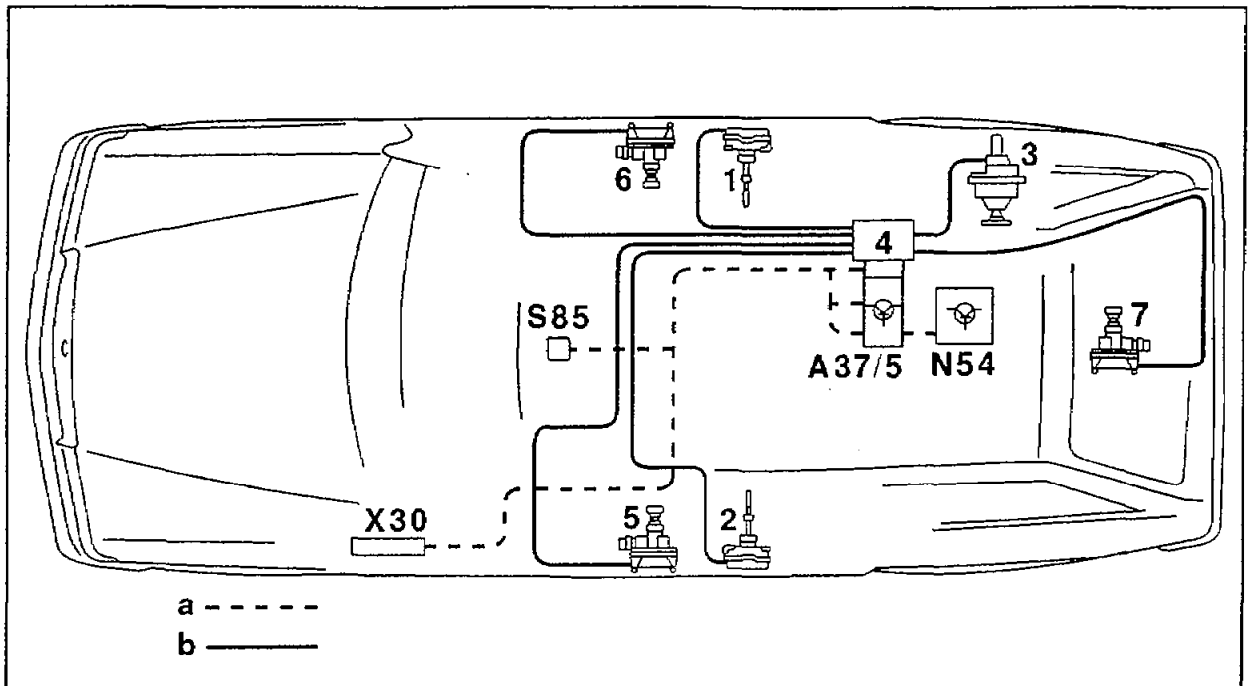
3rd version as of approx. 09/90



P 80 - 0139 - 55

- |       |   |       |  |
|-------|---|-------|--|
| 1     | Right rear door actuator                                | S47   | Left front door actuator                       |
| 2     | Left rear door actuator                                 | S48   | Right front door actuator                      |
| 3     | Fuel filler flap actuator                               | S49   | Trunk lid lock actuator                        |
| M14/1 | Supply pump, central locking system                     | X30   | Connector block, optional electrical equipment |
| S8/2  | Warning buzzer contact, lighting/central locking system | X44/1 | Connector central locking system/tailgate      |
|       |   | ----  | Electric lead                                  |
|       |   | —     | Pneumatic line                                 |

4th version for (D) only as of 03/94 and vehicles with code 885

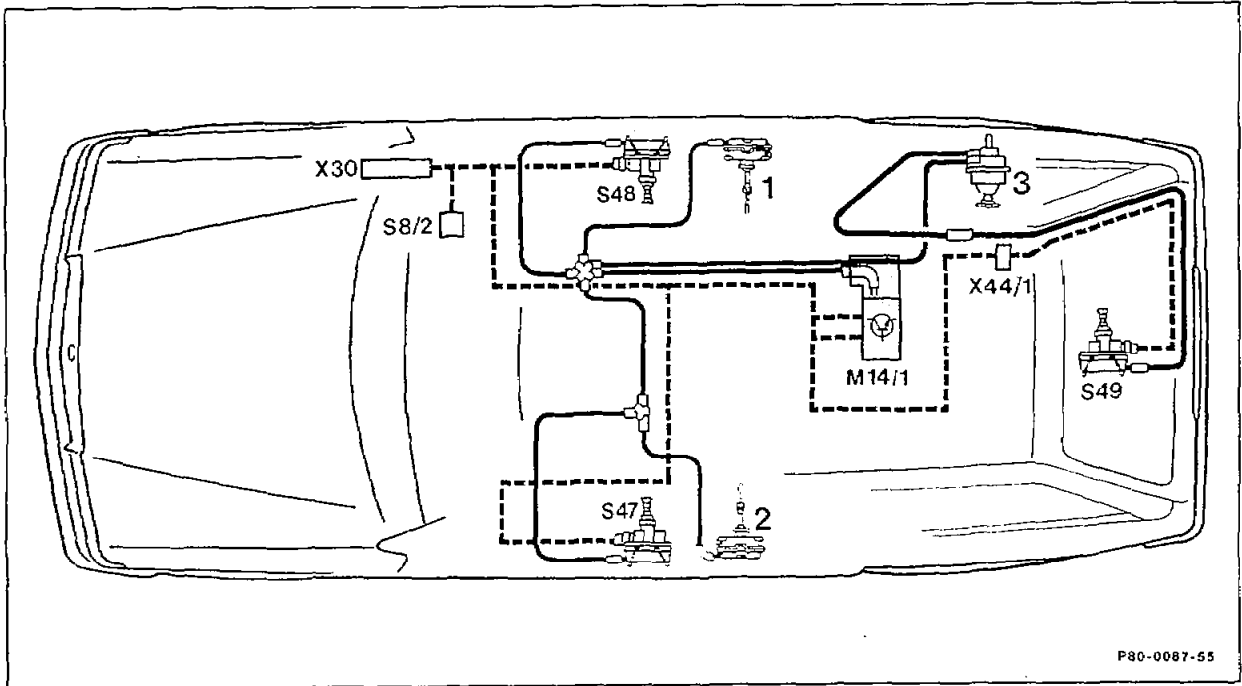


P80-5236-55

- |   |                                      |           |   |
|---|--------------------------------------|-----------|---|
| 1 | Right rear door actuator             | A37/5     | Pneumatic control unit                                  |
| 2 | Left rear door actuator              | N54       | Infrared remote control unit for central locking system |
| 3 | Tank flap actuator                   | S85       | Interior central locking system switch                  |
| 4 | Distribution plug with 6 connections | X30       | Plug connection block for optional equipment            |
| 5 | Left front door actuator             | - - - - - | Pneumatic line  |
| 6 | Right front door actuator            | —————     | Electric lead   |
| 7 | Trunk lid actuator                   |           |   |

## D. RHD T-models

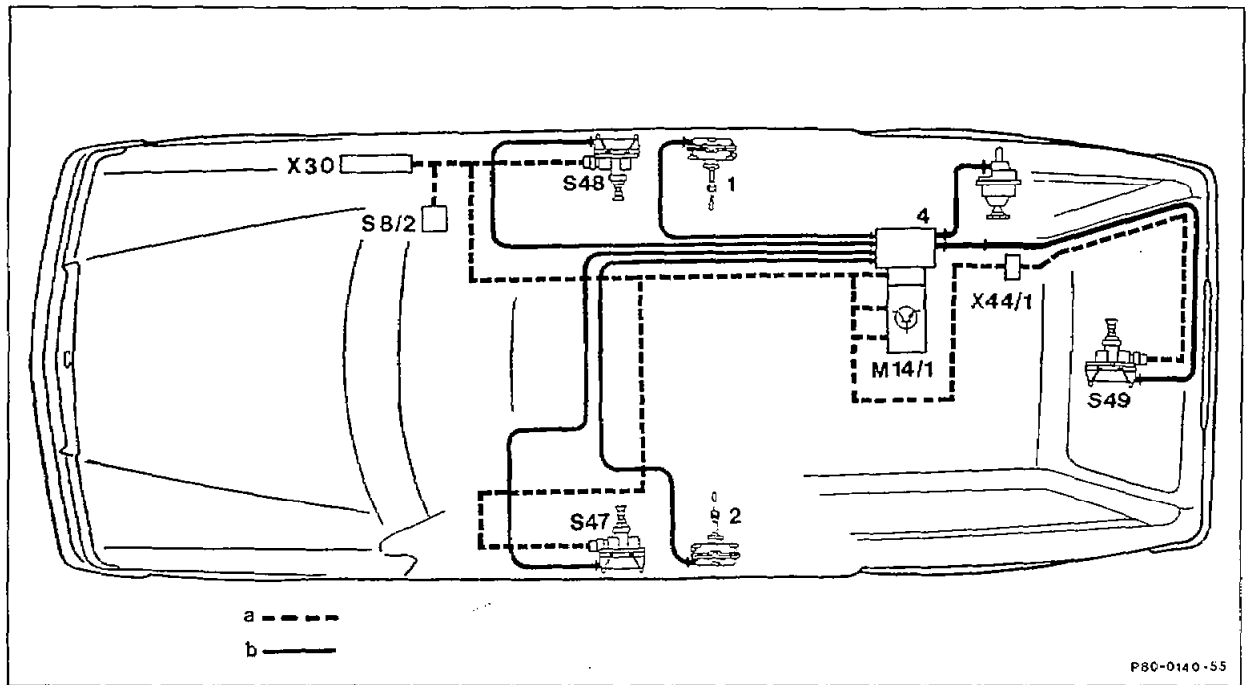
1st version up to approx. 08/90



P80-0087-55

|       |   |       |  |
|-------|---|-------|--|
| 1     | Right rear door actuator                                | S47   | Left front door actuator                       |
| 2     | Left rear door actuator                                 | S48   | Right front door actuator                      |
| 3     | Fuel filler flap actuator                               | S49   | Trunk lid lock actuator                        |
| M14/1 | Supply pump, central locking system                     | X30   | Connector block, optional electrical equipment |
| S8/2  | Warning buzzer contact, lighting/central locking system | X44/1 | Connector central locking system/tailgate      |
|       |   | ----  | Electric lead                                  |
|       |   | —     | Pneumatic line                                 |

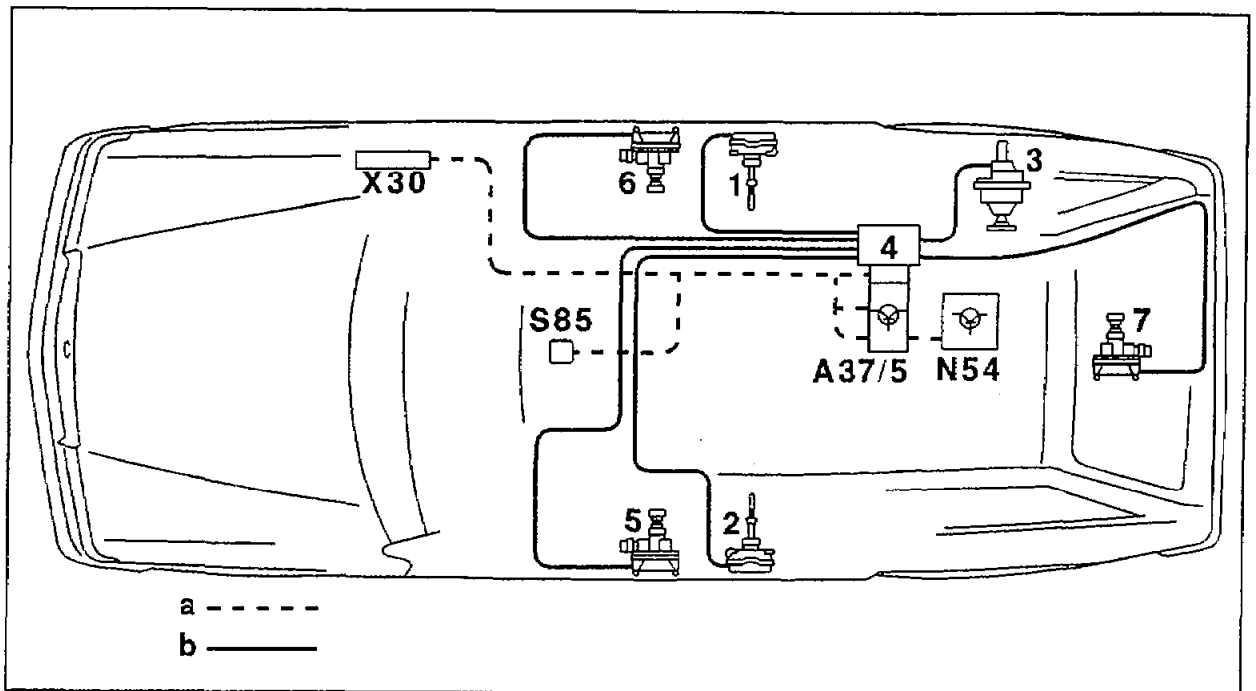
2nd version as of approx. 09/90



P80-0140-55

- |       |  |       |  |
|-------|--|-------|--|
| 1     | Right rear door actuator   | S47   | Left front door actuator                             |
| 2     | Left rear door actuator  | S48   | Right front door actuator                            |
| 3     | Fuel filler flap actuator  | S49   | Trunk lid lock actuator                              |
| 4     | 6-way distributor  | X30   | Plug connection block for optional equipment         |
| M14/1 | Supply pump, central locking system                                | X44/1 | Connection, central locking system (ZV) (trunk lock) |
| S8/2  | Warning buzzer contact, exterior lamps/central locking system (ZV) | ----  | Electric lead  |
|       |  | —     | Pneumatic line                                       |

3rd version for  $\text{\textcircled{D}}$  only as of 03/94 and vehicles with code 885

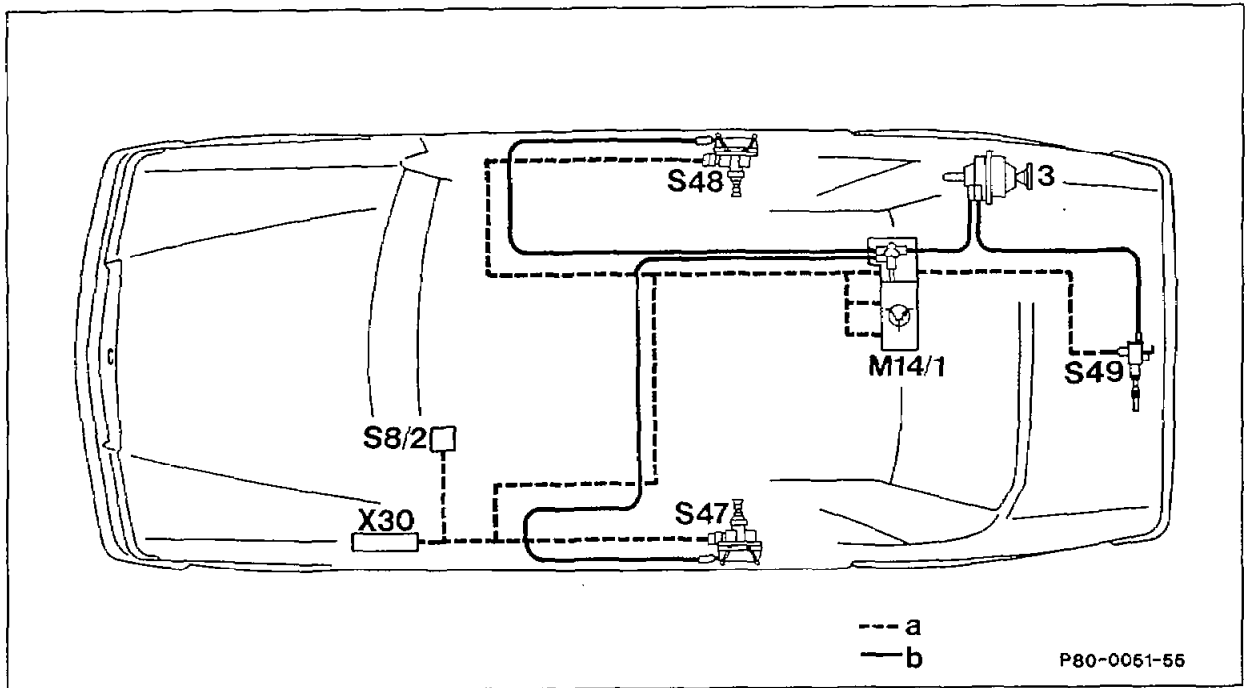


P80-5237-55

- |   |                                      |       |   |
|---|--------------------------------------|-------|---|
| 1 | Right rear door actuator             | A37/5 | Pneumatic control unit                                  |
| 2 | Left rear door actuator              | N54   | Infrared remote control unit for central locking system |
| 3 | Tank flap actuator                   | S85   | Interior central locking system switch                  |
| 4 | Distribution plug with 6 connections | X30   | Plug connection block for optional equipment            |
| 5 | Left front door actuator             | ----  | Pneumatic line  |
| 6 | Right front door actuator            | ———   | Electric lead   |
| 7 | Trunk lid actuator                   |       |   |

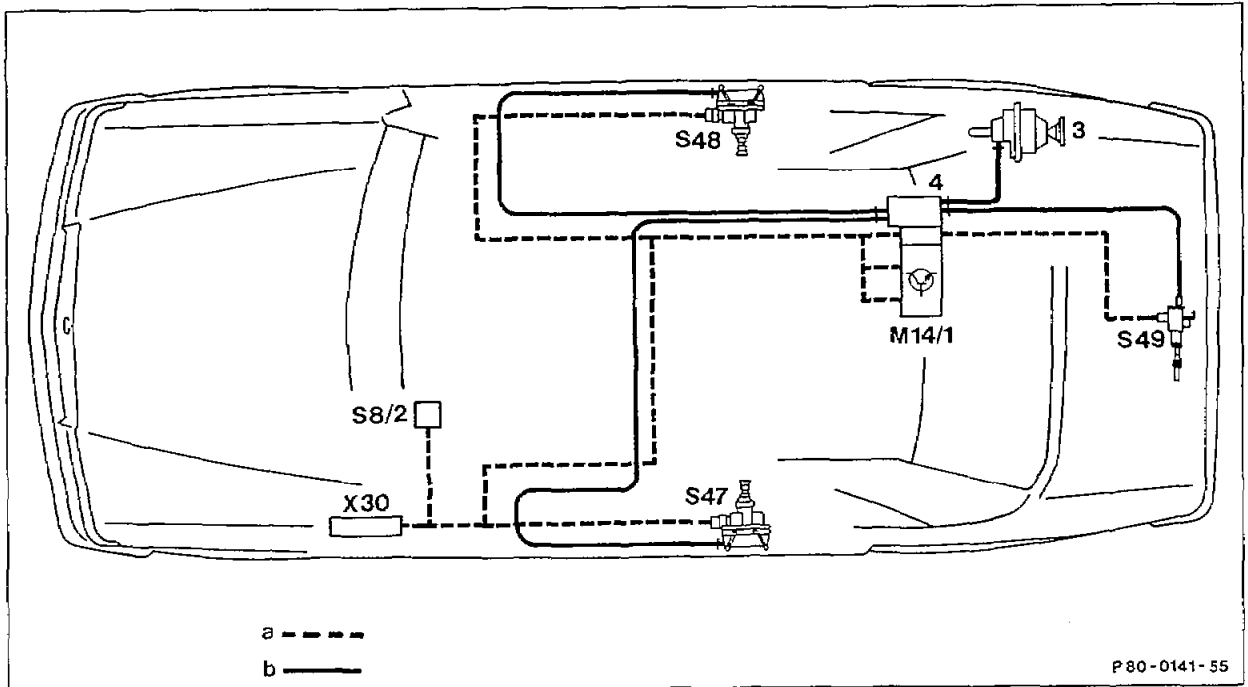
## E. LHD coupes

1st version up to approx. 08/90



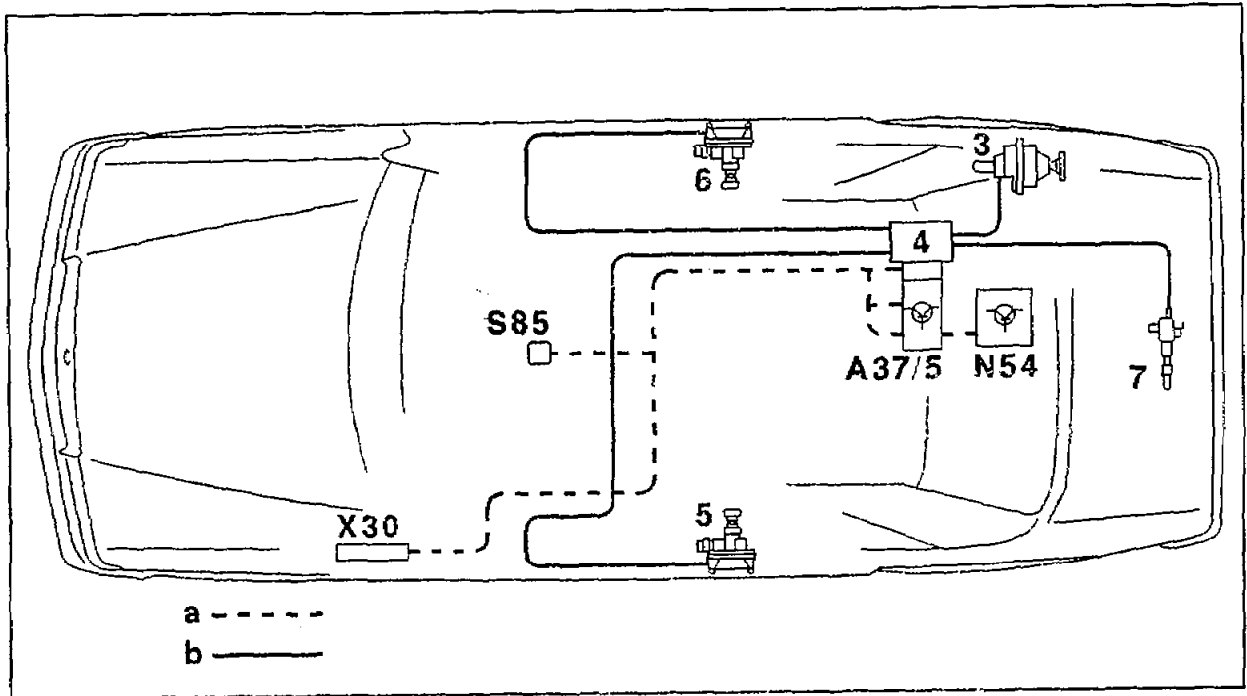
|       |   |     |  |
|-------|---|-----|--|
| 3     | Fuel filler flap actuator                               | S48 | Right front door actuator                      |
| M14/1 | Supply pump, central locking system                     | S49 | Trunk lid lock actuator                        |
| S8/2  | Warning buzzer contact, lighting/central locking system | X30 | Connector block, optional electrical equipment |
| S47   | Left front door actuator                                | a   | Electric lead                                  |
|       |   | b   | Pneumatic line                                 |

2nd version as of approx. 09/90, cabriolet as of start of production



- |       |  |     |  |
|-------|--|-----|--|
| 3     | Fuel filler flap actuator  | S48 | Right front door actuator                    |
| 4     | 6-way distributor  | S49 | Trunk lid lock actuator                      |
| M14/1 | Supply pump, central locking system (ZV)                           | X30 | Plug connection block for optional equipment |
| S8/2  | Warning buzzer contact, exterior lamps/central locking system (ZV) | a   | Electric lead                                |
| S47   | Left front door actuator   | b   | Pneumatic line                               |

3rd version for  $\textcircled{D}$  only as of 03/94 and vehicles with code 885



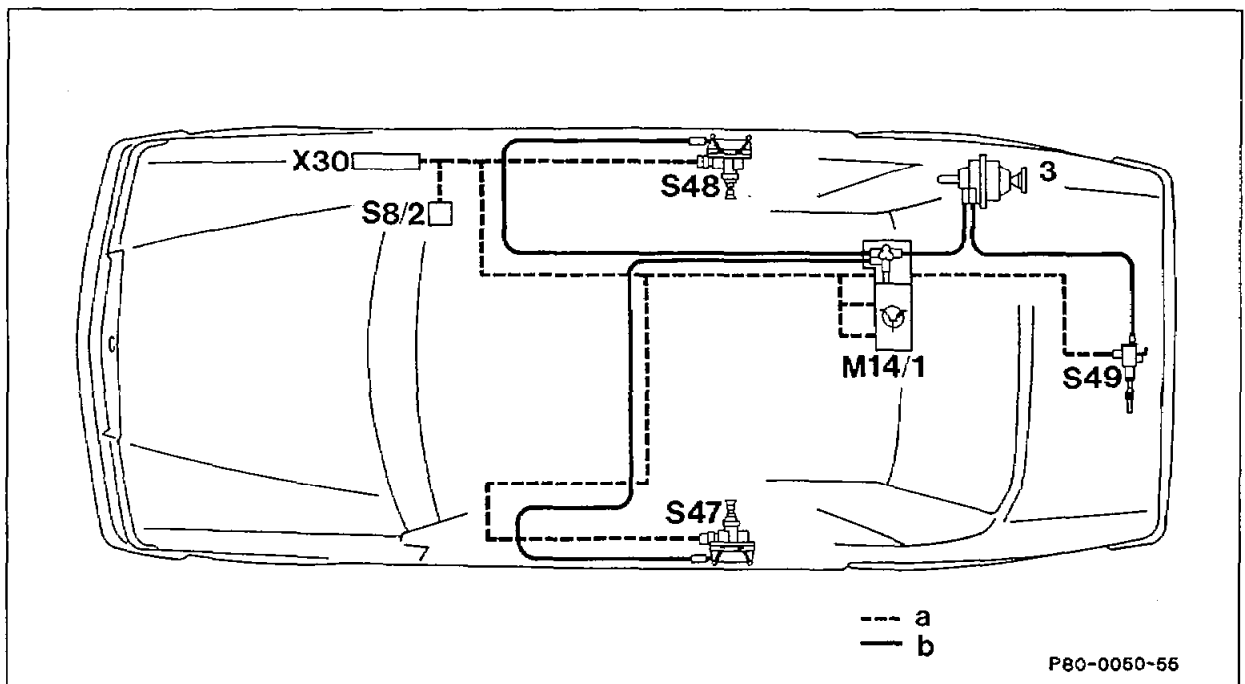
P80-5238-55

- |       |   |           |  |
|-------|---|-----------|--|
| 3     | Tank flap actuator                                      | S85       | Interior central locking system switch             |
| 4     | Distribution plug with 6 connections                    | X30       | Plug connection block for optional equipment       |
| 5     | Left front door actuator                                | X44/1     | Plug connection, central locking system/trunk lock |
| 6     | Right front door actuator                               | - - - - - | Pneumatic line                                     |
| 7     | Trunk lid actuator                                      | —————     | Electric lead                                      |
| A37/5 | Pneumatic control unit                                  |           |  |
| N54   | Infrared remote control unit for central locking system |           |  |



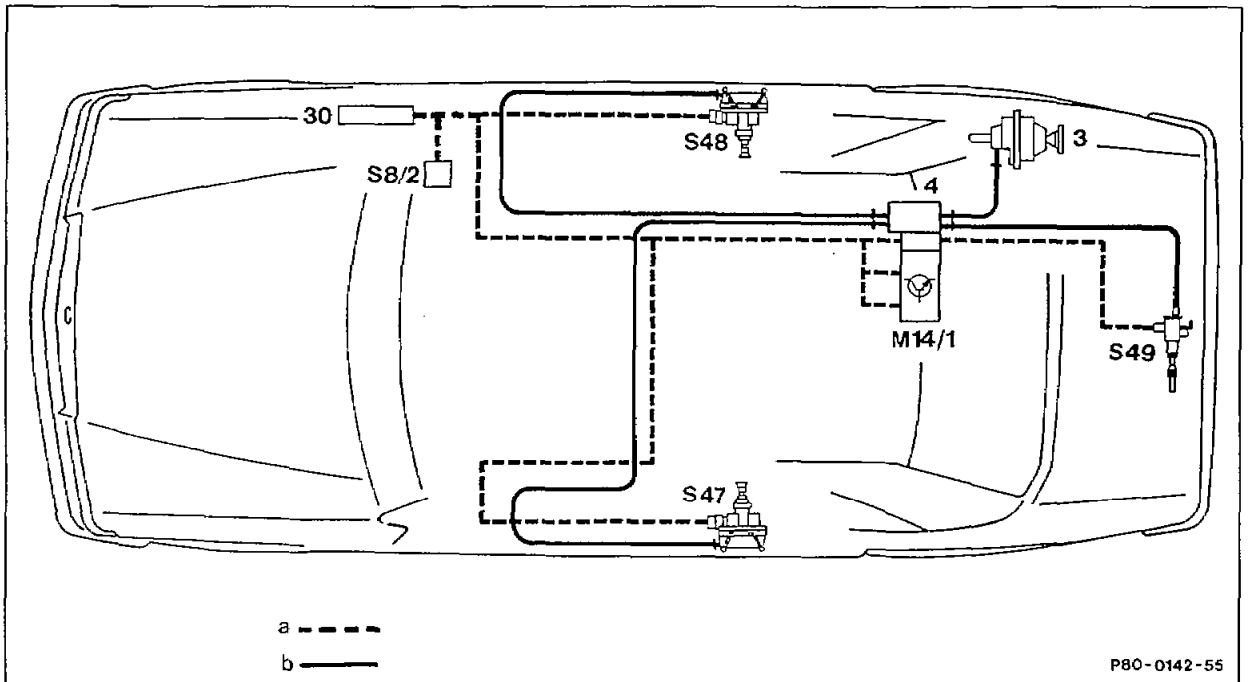
## F. RHD coupes

1st version up to approx. 08/90



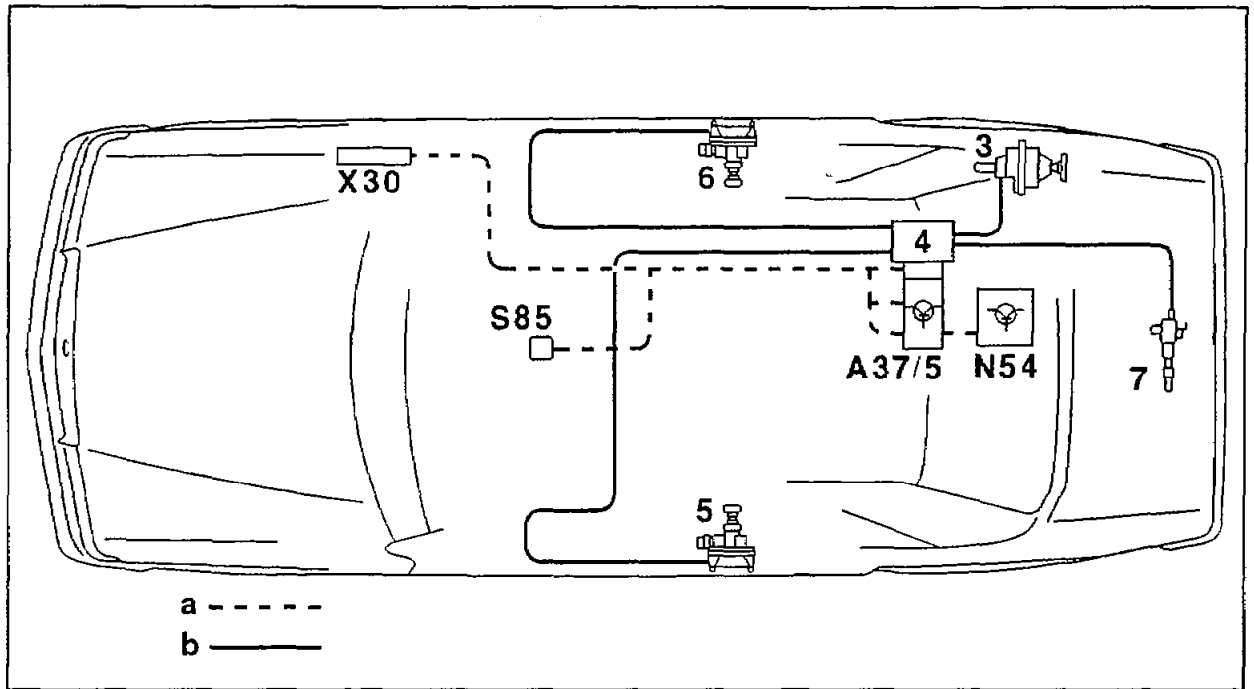
|       |   |     |  |
|-------|---|-----|--|
| 3     | Fuel filler flap actuator                               | S48 | Right front door actuator                      |
| M14/1 | Supply pump, central locking system                     | S49 | Trunk lid lock actuator                        |
| S8/2  | Warning buzzer contact, lighting/central locking system | X30 | Connector block, optional electrical equipment |
| S47   | Left front door actuator                                | a   | Electric lead                                  |
|       |   | b   | Pneumatic line                                 |

2nd version as of approx. 09/90, cabriolet as of start of production



- |       |  |     |  |
|-------|--|-----|--|
| 3     | Fuel filler flap actuator  | S48 | Right front door actuator                    |
| 4     | 6-way distributor  | S49 | Trunk lid lock actuator                      |
| M14/1 | Supply pump, central locking system (ZV)                           | X30 | Plug connection block for optional equipment |
| S8/2  | Warning buzzer contact, exterior lamps/central locking system (ZV) | a   | Electric lead                                |
| S47   | Left front door actuator   | b   | Pneumatic line                               |

3rd version for (D) only as of 03/94 and vehicles with code 885



P80-5239-55

- |       |   |       |  |
|-------|---|-------|--|
| 3     | Tank flap actuator                                      | S85   | Interior central locking system switch             |
| 4     | Distribution plug with 6 connections                    | X30   | Plug connection block for optional equipment       |
| 5     | Left front door actuator                                | X44/1 | Plug connection, central locking system/trunk lock |
| 6     | Right front door actuator                               | ----  | Pneumatic line                                     |
| 7     | Trunk lid actuator                                      | —     | Electric lead                                      |
| A37/5 | Pneumatic control unit                                  |       |  |
| N54   | Infrared remote control unit for central locking system |       |  |

**Survey**

| No.      | Subject   | Model or Component      | Notes         |
|----------|---|-------------------------|---------------|
| 80-85041 | Malfunction of central locking system without lock being operated.  | All models              | 04/87 revised |
| 80-85091 | Central locking system does not operate at outside temperatures below 0 °C.                                       | All models              | -             |
| 80-85121 | Whistling noise at fuel filler flap when locking or unlocking car.  | All models              | -             |
| 80-86041 | Central locking system locks car by itself after ignition key withdrawn from steering lock.                       | All models              | 06/87 revised |
| 80-87041 | Car can be locked centrally from the right (RHD left) front door although the ignition key is in position 1 or 2. | All models              | -             |
| 80-87042 | Key is difficult to turn when locking or unlocking tailgate.  | Station Wagon           | 05/87 revised |
| 80-87091 | Central locking system cannot be locked and unlocked from an operating point.                                     | All models              | -             |
| 80-87111 | Pneumatic line dropped off at rear door actuator.   | Sedan and Station Wagon | -             |

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|          |  |            |               |
|----------|--|------------|---------------|
| 80-85041 | Malfunction of central locking system without lock being operated. | All models | 04/87 revised |
|----------|--|------------|---------------|

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### **Possible causes**

1. Actuators in front doors poorly set.
2. Seal on trunk lid or tailgate actuator (S49) has dropped off or actuator is poorly set.
3. Connecting hoses kinked or twisted.
4. Linkage to locking button of tailgate (Station Wagon only) sticking.
5. Pressure switching point of supply pump too low.
6. Leaking actuator allows moisture to get into electronics of supply pump.
7. Leaking body part allows moisture to get into electronics of supply pump.

### **1st cause**

Poor setting of actuators in front doors.

### **Remedy**

Check setting of switches of front doors by slowly locking left or right front door at the lock and keeping a watch on the locking buttons in the doors.

After the locking button has moved approx. 6 – 8.5 mm, central locking system must lock. Then, unlock central locking system again. Adjust incorrectly set actuators.

### 2nd cause

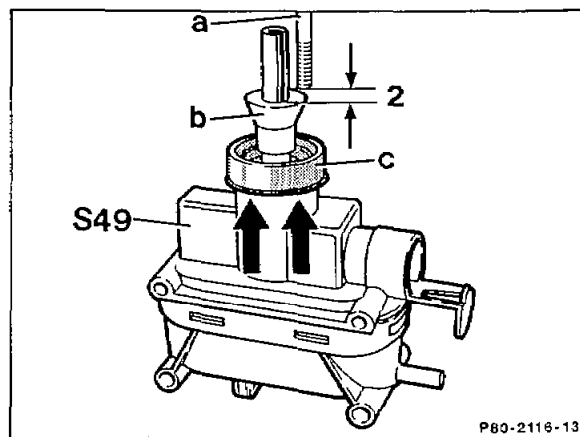
Seal on trunk lid or tailgate actuator (S49) has dropped off or actuator is poorly set.

### Remedy

Check stroke of actuator at tailgate or trunk lid (approx. 18 – 19 mm). Remove actuator (S49) at trunk lid or tailgate and check that seal (c) is correctly positioned; install seal (c), if necessary. Move actuator into installation position and re-install. Then, push shift rod fully to the left, insert into shift rod mounting free of tension and push sliding sleeve as far as a stop to the left.

### Note

Minimum distance between shift rod (a) and sliding sleeve (b) = 2 mm. Shorten shift rod by approx. 5 mm if necessary.



### 3rd cause

Connecting hoses kinked or twisted.

### Remedy

Examine rubber connectors at actuators for kinking and twisting. Renew connector, if necessary, and install properly.

### 4th cause

Linkage to locking button of tailgate (Station Wagon only) sticking.

### Remedy

Check linkage to locking button of tailgate for ease of movement by detaching linkage at lock. Repair if necessary.

**5th cause**

Pressure switching point of supply pump too low.

**Remedy**

Check pressure switching point of supply pump by connecting tester for vacuum and pressure systems with 3-point distributor between each actuator and the detached pneumatic line (specification: min. 420 mbar pressure or vacuum). If this pressure is not reached, check connectors or pneumatic lines for kinking or examine supply pump. Renew if necessary (refer to 80-108).

**6th cause**

Leaking actuator allows moisture to get into electronics of supply pump.

**Remedy**

Move all doors into first locking detent (do not close doors fully) and check central locking system first in vacuum range, then in pressure range for leaks. Renew leaking components, if necessary.

If a leak is detected, check whether moisture has got into the system. Blow through moist pneumatic lines individually with nitrogen or dry compressed air until no more moisture is present. Remove moist actuators, operate approx. 5 times with pneumatic connection downwards. Then, shake out drops of water. Repeat this procedure several times until actuator is dry.

**7th cause**

Leaking body parts allow moisture to get into electronics of supply pump.

**Remedy**

If moisture is present in the area of the supply pump, seal any leaking body points, eliminate moisture and renew supply pump.

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|          |   |            |   |
|----------|---|------------|---|
| 80-85091 | Central locking system does not operate at outside temperatures below 0 °C. | All models | - |
|----------|---|------------|---|

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**Cause**

Leaking actuators allow moisture to get into the line system of central locking system and moisture ices up.

**Remedy**

Thaw out car. Detach pneumatic line at supply pump and check whether moisture has got into the system. If moisture is present, first check central locking system in vacuum range, then in pressure range for leaks and renew leaking components. Blow through moist pneumatic lines individually with nitrogen or dry compressed air until no more moisture is present. Remove moist actuators, operate approx. 5 times with pneumatic connection down the way. Then, shake out drops of water. Repeat this procedure several times until the actuator is dry.





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80-85121 Whistling noise at fuel filler flap when locking or unlocking car.

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All models -

**1st cause**

Fuel filler flap poorly set.

**Remedy**

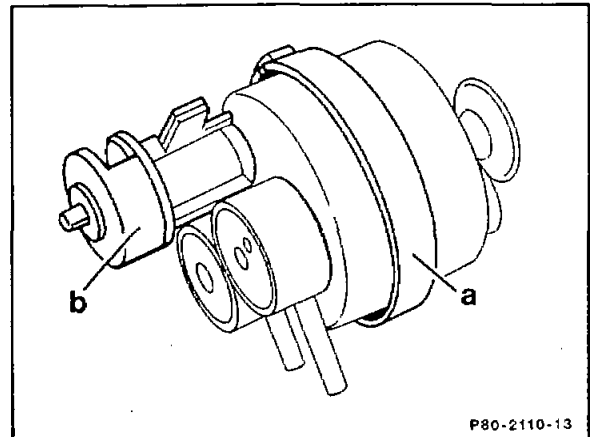
Adjust fuel filler flap so that locking rod does not rub against it.

**2nd cause**

Fuel filler flap actuator is insufficiently noise-dampened.

**Remedy**

If actuator extremely noisy, install fuel filler flap actuator (a) Part No. 000 800 91 75 together with guide sleeve (b) Part No. 124 800 01 79. The 3-pin distributor is not fitted. Connect pneumatic line to actuator with connectors Part No. 007 997 61 82.



a Fuel filler flap actuator  
b Guide sleeve

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80-86041 Central locking system locks car by itself after key withdrawn from steering lock.

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All models

06/87  
revised

**Cause**

1. Right (RHD left) front door actuator poorly set.
2. Right (RHD left) front door actuator faulty.

**Remedy**

Check switch setting of right (RHD left) front door, adjust if necessary, by slowly locking right (RHD left) front door at the lock and keeping a watch on locking buttons in the doors. After the locking button has moved approx. 6 – 8.5 mm, the central locking system must lock. If setting is in order:

Renew right (RHD left) front door actuator.

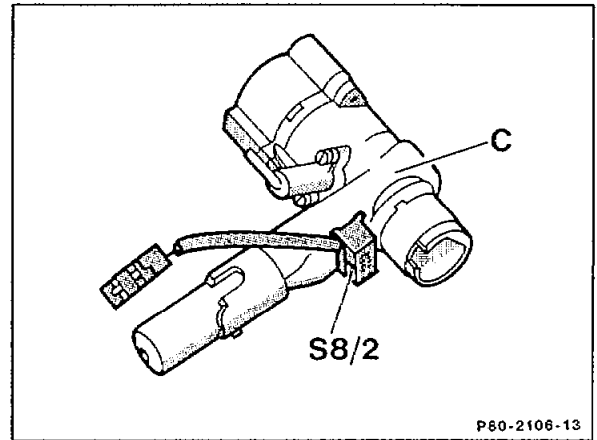
80-87041 Car can be locked centrally from right (RHD left) front door although the ignition key is in position 1 or 2 in steering lock. All models -

**Cause**

Warning buzzer contact of lighting/central locking system S8/2 at steering lock faulty.

**Remedy**

Renew warning buzzer contact of lighting/central locking system S8/2.



P80-2106-13

80-87042 Key is difficult to turn when locking or unlocking tailgate. Model 05/87  
124 Station Wagon revised

**Cause**

Tailgate actuator (S49 with snap-in seal) sticking. Identification: Actuator has white or red seal (arrow) or a yellow sliding sleeve.

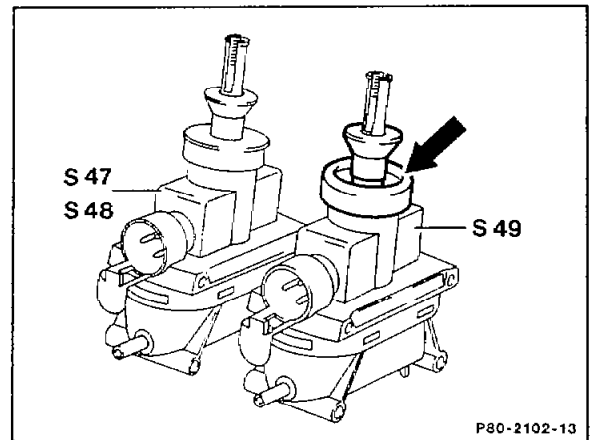
**Remedy**

Remove tailgate actuator (S49) and install a front door actuator (S47, S48) without snap-in seal in its place.

Identification: black

**Note**

Increased effort is required to re-open the car immediately after closing it and vice versa, as the supply pump requires approx. 4 - 10 seconds for air admission.



P80-2102-13

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80-87091 Central locking system cannot be locked and unlocked from an operating point All models -

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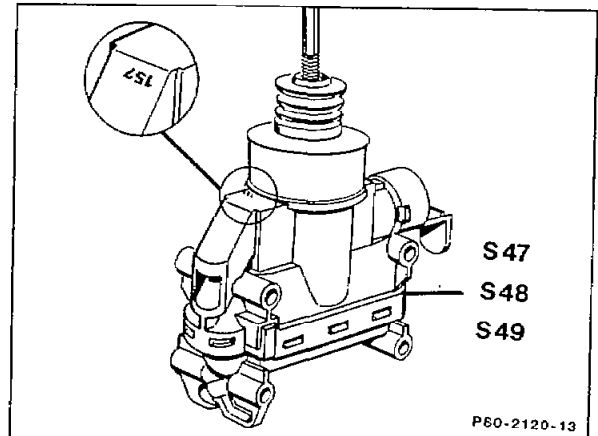
**Cause**

Connecting rod from actuator to locking pin has broken off at the actuator (Manufacturer Hella).

**Remedy**

Renew affected actuator (S47, S48 and S49).  
In addition, remove the two other actuators in the front door or trunk lid (tailgate).

Examine removed actuators to determine whether they are from the manufacturer "Hella" with production code number 137, 147, 157, 167 or 177 (see ill.); if yes, renew actuator (S).



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80-87111 Pneumatic line dropped off at rear door actuator. Sedan and Station Wagon -

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The following models may be affected:  
Sindelfingen Plant up to Vehicle-Ident-End-No.  
A 197790 (02/86)  
Bremen Plant up to Vehicle-Ident-End-No.  
F 010913 (05/86)

**Cause**

Pneumatic line is pulled off by frequently opening and closing rear door.

**Remedy**

Retrofit 350 mm long rubber compensating piece.

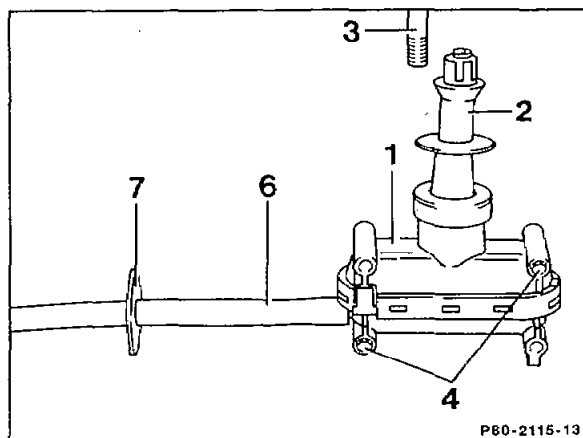
### Scope of work

1 Remove panelling of centre pillar, door trim and rear door actuator.

2 Withdraw pneumatic line from centre pillar and shorten by 250 mm.

3 Install 350 mm long connecting hose with rubber disk fitted on, to rear door actuator so that the distance between actuator and rubber disk is approx. 80 mm.

- 1 Rear door actuator
- 2 Sliding sleeve
- 3 Shift rod
- 4 Bolt
- 5 350 mm long connecting hose
- 7 Rubber disk



4 Install rear door actuator with pneumatic connection facing direction of travel (turned through 180° compared to original position) in rear door and lay connecting hose into centre pillar.

5 Move rubber disk on the connecting hose up to opening for protective hose in rear door.

7 Fit together 350 mm long connecting hose (6) and pneumatic line (8) in centre pillar (push-length 12 mm).

8 Install door trim and panelling of centre pillar.

| Parts           | Part No.      |
|-----------------|---------------|
| Connecting hose | 007 997 61 82 |
| Rubber disk     | 126 997 02 40 |

