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Mercedes-Benz 140 (S-Class) Wiper Transmission Gear Replacement

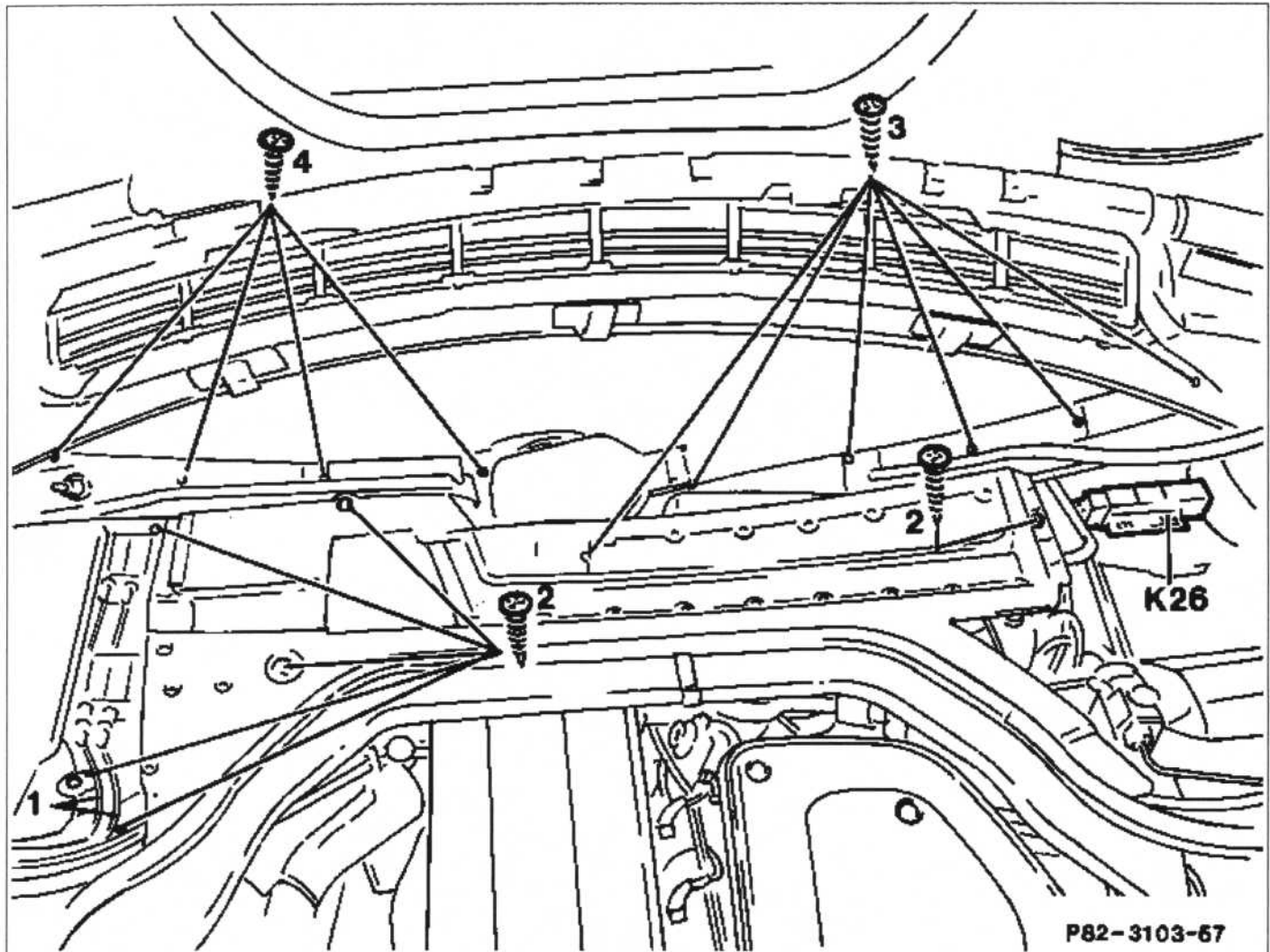
The instructions below are for the removal and installation of the wiper transmission assembly and realigning the wiper arm for proper synchronization.

Additionally once the assembly is removed from the vehicle, follow these steps.

- Remove nut #3 (diagram 6) of wiper gears head shaft.
- Pull wiper head out of transmission.
- You will see the damaged plastic gear
- Remove the old gear by use of chisel and hammer.
- Using a bench vise, secure a metal punch. Place the wiper head shaft centered over the punch. Tap the new gear from the opposite side. Be sure to install gear evenly otherwise there is a risk of cracking.
- Place the wiper head back in the transmission and reinstall.
- Pay special attention to the alignment of the arms and shafts in diagram 7.

82-0640 Removing and installing wiper system

Preliminary work:
Wiper arms removed (82-610)



P82-3103-57

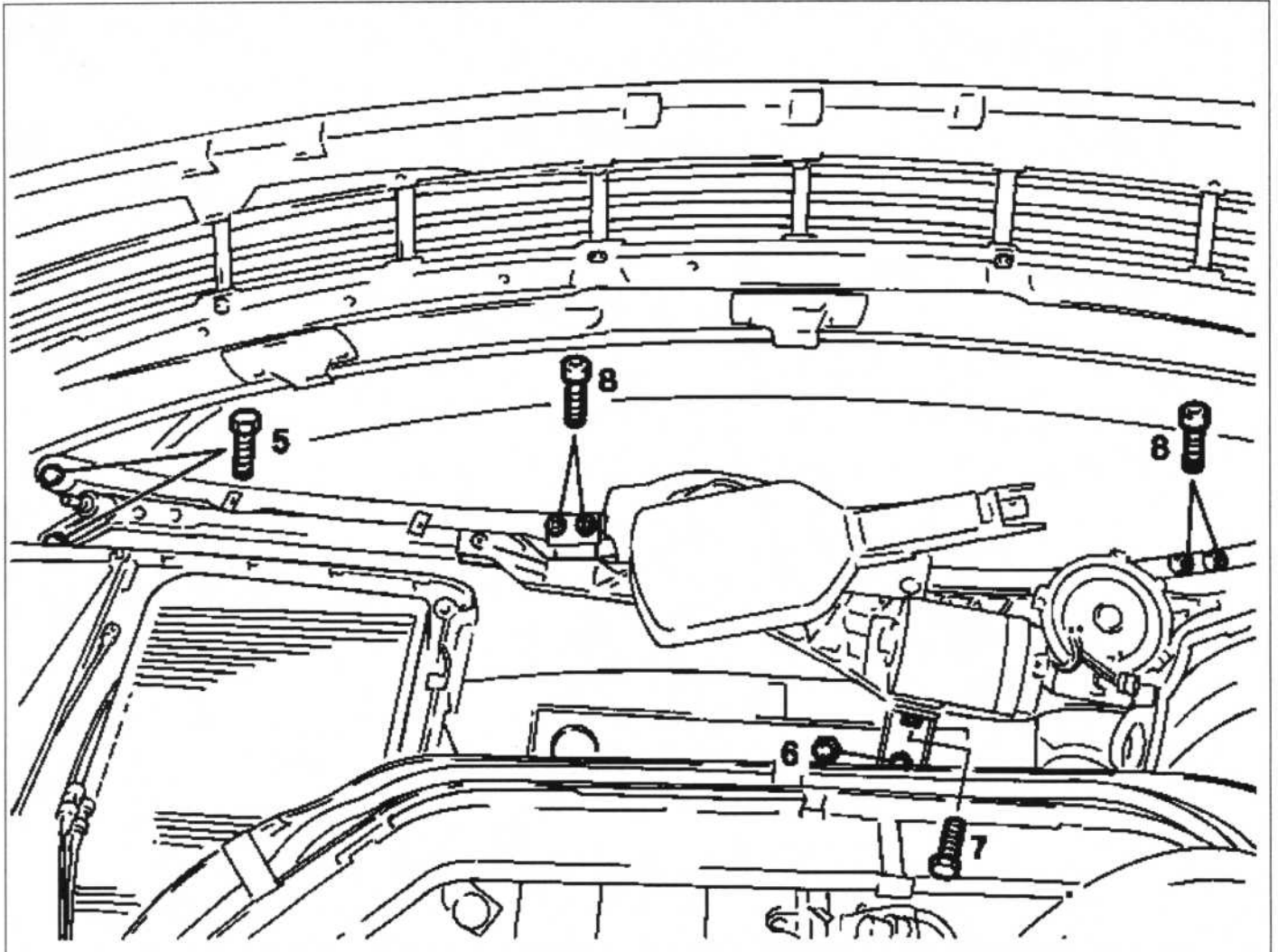
Removal

Raise wiper head to vertical position.



Withdraw ignition key when working on the wiper system. Movements at the wiper arm or wiper linkage may activate the park position automatic control with effect from ignition key position "1". This could lead to hand injuries.

Vacuum lines (1) at main air flap elements.....	detach.
Screws (2) in air collecting box.....	unscrew.
Temperature sensor at left air collecting box.....	detach.
Air collecting box.....	remove.
Dust filter with cover (140 589 00 98 00).....	cover over.
Screws (3) in left cover.....	unscrew.
Left cover.....	unclip and remove.
Screws (4) in right cover.....	unscrew.
Rubber ring on right wiper arm mount.....	press off.
Right cover.....	unclip and remove.
Wiper system.....	move into end position (withdraw ignition key).



P82-3104-57

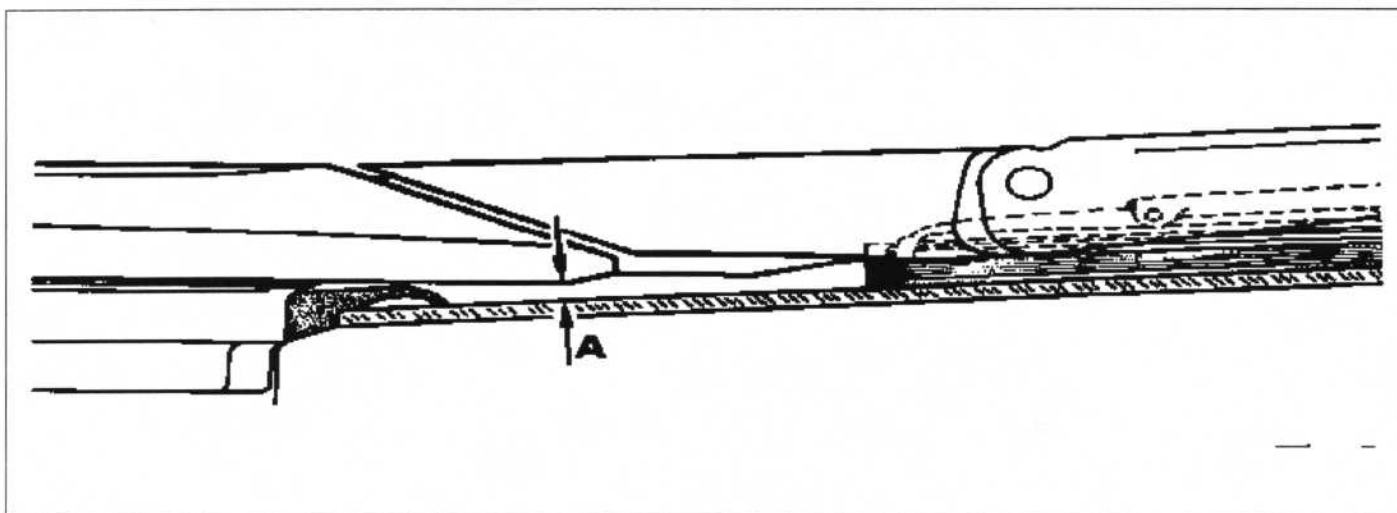
Electrical connection of wiper system relay (K26).....	disconnect.
Bolts (5) at right wiper arm mount.....	unscrew.
Nut (6) and bolt (7).....	unscrew.
Screws (8) at stops	unscrew.
Electric cable with rubber grommet.....	push into water box.
Wiper system	move to the left and take out.

Installation

Wiper system.....	insert from left to right.
Small cover below wiper head.....	attach.
Wiring harness with rubber grommet.....	push through partition.
Stops with screws (8).....	attach, 10 Nm.
Wiper arm mount with bolts (5).....	attach, 10 Nm.

Clip with nut (6) and bolt (7)..... attach, 20 and 22 Nm.
Connector at relay (K26)..... connect.

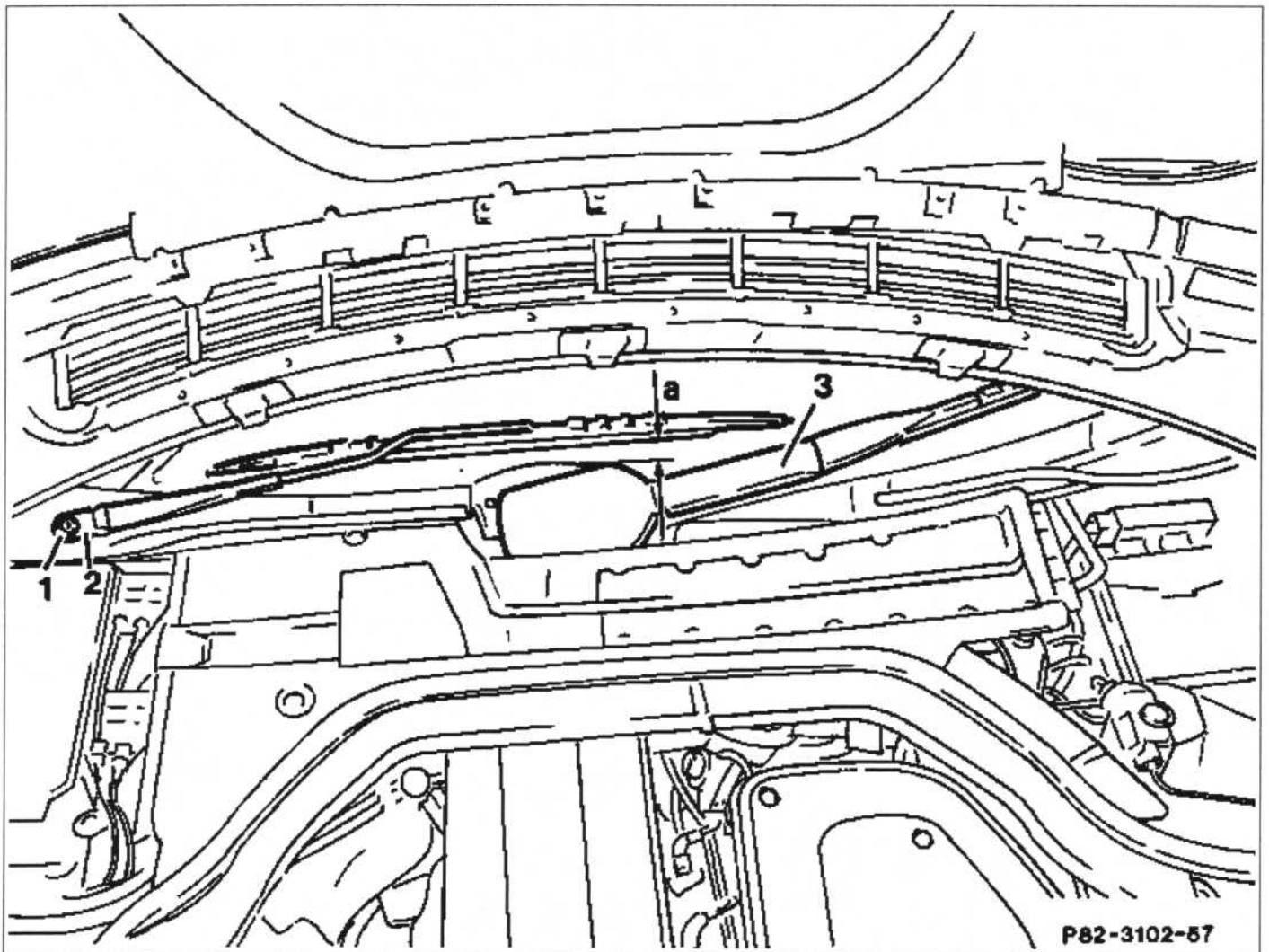
Setting



P82-0008-33

A: reference size = 11 mm

Position wiper arm (driver's side) in vertical position. Check distance (A) between windscreen and wiper head with gauge (special tool, Part No. 129 589 03 21 00). The wiper system can be shifted in the oblong holes by slackening the nuts (6) and bolt (7).



P82-3102-57

Removal



Withdraw the ignition key when working on the wiper system. Movements at the wiper arm or wiper linkage may activate the park position automatic control with effect from ignition key position "1". This could result in hand injuries.

Hood..... open and raise to vertical position.
 Nut (1) on right wiper arm mount..... unscrew.
 Wiper arm..... shake loose.
 Wiper arm..... pull off (do not twist).



Twisting can be avoided by inserting a screwdriver into the existing assembly hole (2) of the wiper arm mount. The screwdriver can then be used to produce a counter-pressure.

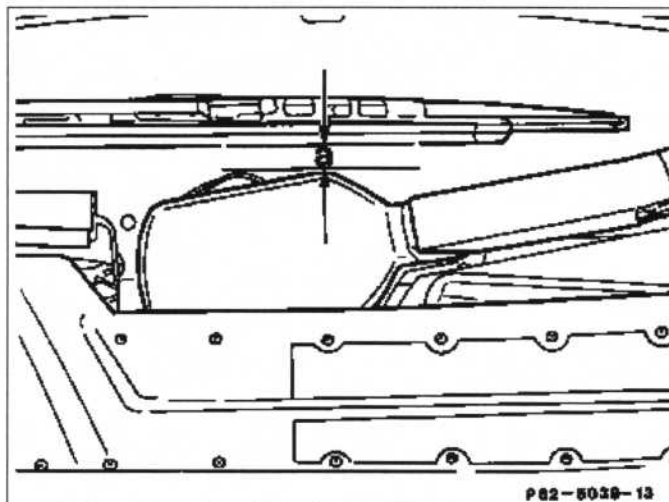
Left wiper arm..... move to maximum extended stroke.
 Cover (3) press off toward wiper head.
 Screw below this..... unscrew from fixture.
 Wiper arm..... pull off; to do this grasp wiper arm at fixture to prevent it striking the windscreen.

Installation

Installation is performed in the reverse order.



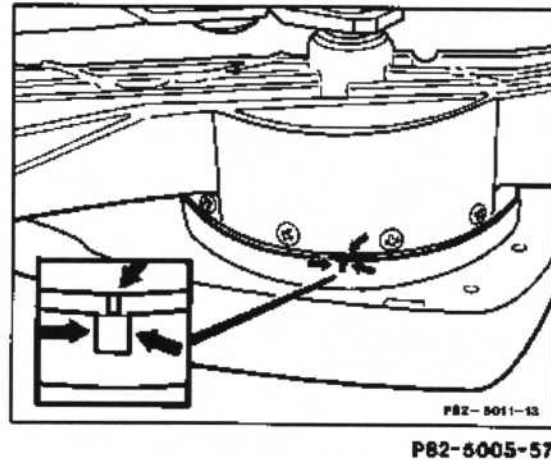
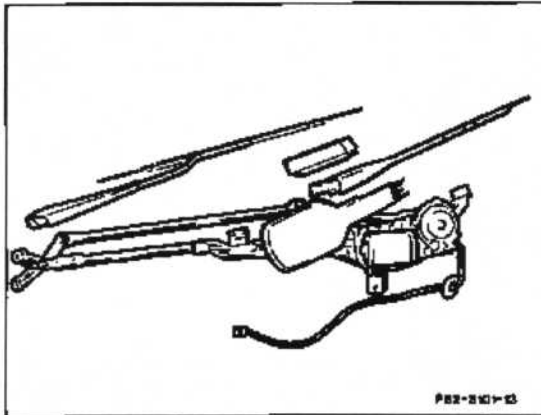
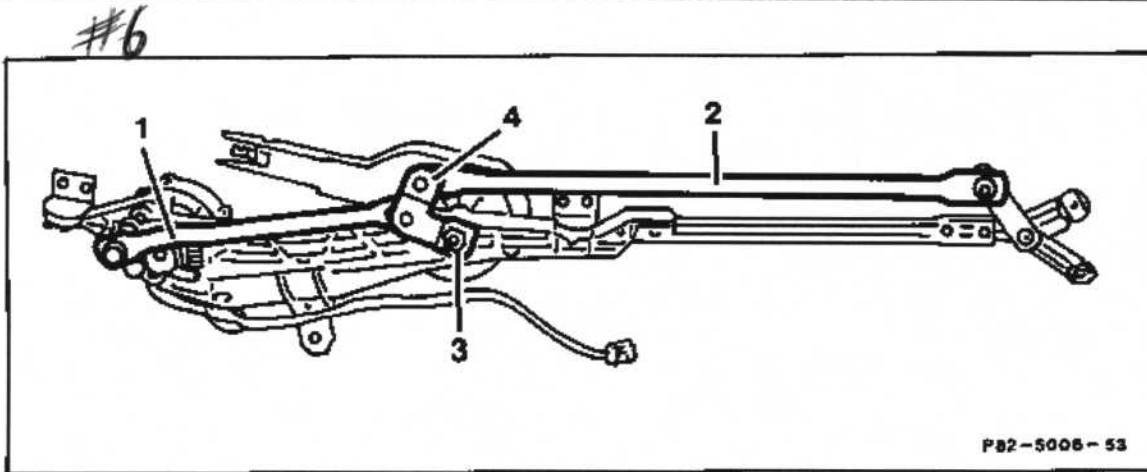
When installing the right wiper arm, maintain the distance "a" (35 mm) (wiper system in park position). Place a 35 mm gauge (made of wood or plastic) on the gear head. Place wiper arm against gauge and tighten nut (1).



P82-5039-13

82-0760 Removing and installing wiper linkage

Preliminary work:
Wiper system removed (82-640).



P82-5005-57

Removal

- | | |
|-----------------------------|--------------------------------|
| Wiper head (arrows)..... | mark (if no marking provided). |
| Linkage (1)..... | press off. |
| Linkage (2)..... | press off. |
| Nut (3) of wiper shaft..... | unscrew. |
| Swivelling lever (4)..... | press off. |

Installation

Note

Wiper motor must be in park position. Connect to cable at wiper system relay (K26) if necessary and run to park position.

- Swivelling lever (4)..... press on.
- Linkage (1)..... press on.
- Linkage (2) press on as shown in figure.

Note

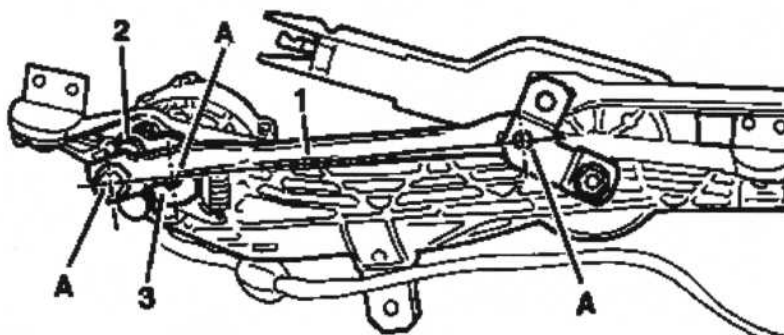
Markings on wiper head (arrows) must be aligned. Wiper motor in park position. The points "A" should form a line. Adjust wiper motor if necessary (Repair Manual 82-680).

- Swivelling lever (4) tighten with nut (3).

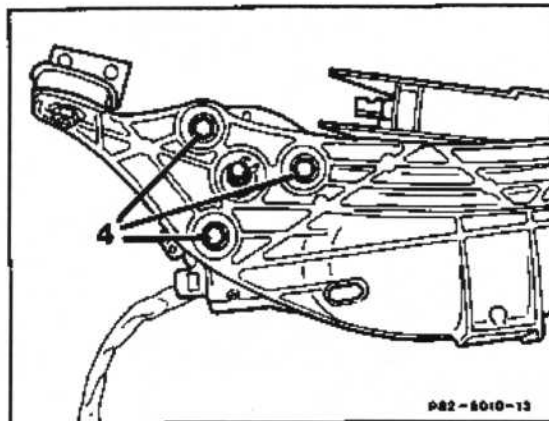
82-0680 Removing and installing wiper motor

Preliminary work:
Wiper system removed (82-640).

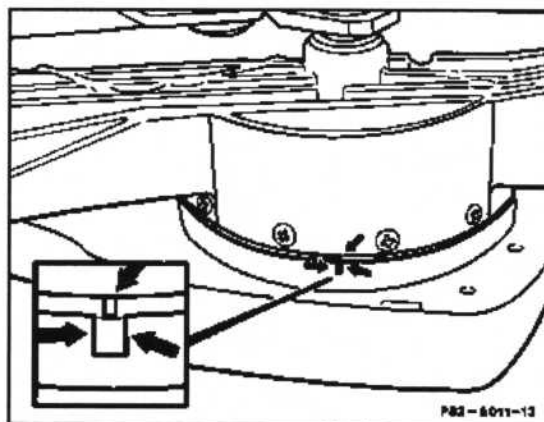
#7



P82-5009-35



P82-5010-13



P82-5011-13

P82-5004-57

P82-5004-57

Removal

- | | |
|--|--------------------------------|
| Wiper head (arrows)..... | mark (if no marking provided). |
| Linkage (1) of snow guard (2)..... | press off. |
| Nut (3, waf 24) on wiper motor shaft | unscrew. |
| Snow guard (2)..... | press off. |
| Wiper motor with bolts (4)..... | unscrew and take off. |

Installation

Note

Wiper motor must be in park position. Connect to wiring harness if necessary and run to park position.

Wiper motor with bolts (4)..... screw on, 13-17 Nm.
Snow guard (2)..... fit on.
Linkage (1)..... fit onto snow guard.

Note

Markings on wiper head (arrows) must be aligned. The 3 points "A" should form a line.

Nut (3) on wiper motor shaft..... screw on, 55-60 Nm.
Linkage (1)..... press onto snow guard.