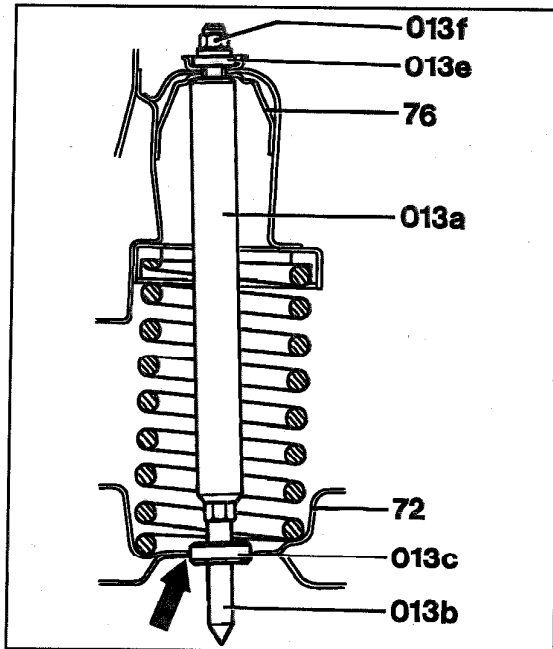


32-126 Checking alignment of rear shock absorbers

Preliminary work:
R and R rear shock absorbers (32-110).



P32-5281-15

- | | |
|---|--|
| Vehicle rear end | load until specified vehicle level is reached. |
| Testing and straightening tool (013)
(special tool 123 589 05 21 00) | attach to upper mounting point for shock absorber or spring strut.
Check alignment based on the distance from the semi-trailing arm (72) around the test sleeve (13c) and compare values measured with table. |
| In event of deviations outside of tolerance. | remove test sleeve and correct with testing and straightening pin. |

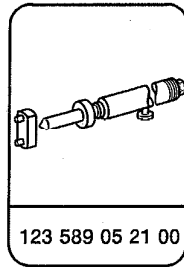
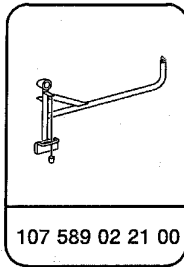
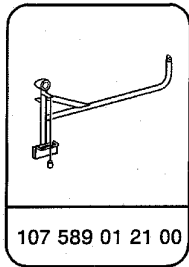
32-126 Checking alignment of rear shock absorbers

Test values:

Shock absorber alignment on rear axle

Model	Vehicle level at rear axle	Permissible alignment deviation
126.02	$+ 12 \pm 5$ mm	5 mm
126.032/033/034/035		
126.043/46		
126.12		
126.13		
126.036/037/038/039	$+ 105 \pm 5$ mm	
126.044/045		

Special tools



Note

Extremely high deviation in the alignment of the shock absorber mounting points can lead to excessive shock absorber or spring strut wear resulting in rumbling noises and leakage at the piston rod seal. In extreme cases this can even negatively affect the driving comfort (suspension harder due to increased friction).

For this reason it is necessary to check and, if necessary, correct the shock absorber alignment following straightening and repair work on the affected rear end frame parts. The shock absorbers can be checked for proper alignment with the axle installed with the vehicle in the **design position**.

32-126 Checking alignment of rear shock absorbers

The previous testing and straightening tool for checking the shock absorber alignment on the rear axle, part no. 107 589 00 21 00 has been replaced by the new testing and straightening tool 123 589 05 21 00 which can be used for both the front and rear axles.

CAUTION!

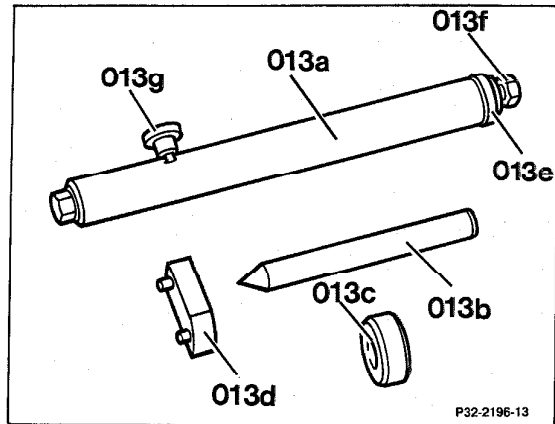
When removing the shock absorbers with the vehicle jacked up and load relieved on the suspension ensure that the piston rod does not turn while loosening the top mount. Since the extension stop in the shock absorber is against the operating piston in this state, the connection between the operating piston and piston rod could loosen. This would result in sudden extension of the piston rod and expulsion of the oil in the shock absorber.

32-126 Checking alignment of rear shock absorbers

Checking

1 Load rear end of vehicle until specified vehicle level is reached.

2 Fasten testing and straightening tool to top mounting point for shock absorber after removing arresting screw (013g).



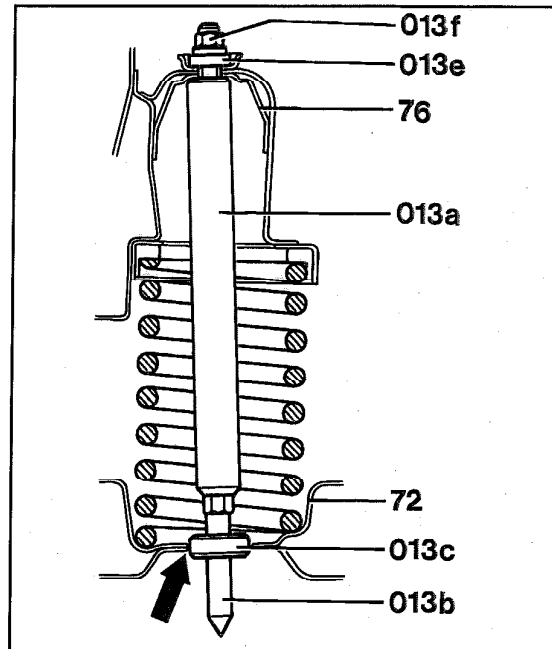
P32-2196-13

P32-2196-13

- 013 Testing and straightening tool
- 013a Straightening bolt
- 013b Testing and straightening pin
- 013c Test sleeve
- 013d Test plate
- 013e Washer
- 013f Hex. nut
- 013g Arresting screw

32-126 Checking alignment of rear shock absorbers

3 Check alignment with test sleeve (013c).
When the gap between the semi-trailing arm and test sleeve (see arrow) is the same all the way around, this indicates a deviation of 0 mm.
To correct remove test sleeve and use testing and straightening pin.



P32-5281-15

- 013 Testing and straightening tool
- 013a Straightening bolt
- 013b Testing and straightening pin
- 013c Test sleeve
- 013e Washer
- 013f Hex. nut
- 72 Semi-trailing arm
- 76 Dome on frame floor