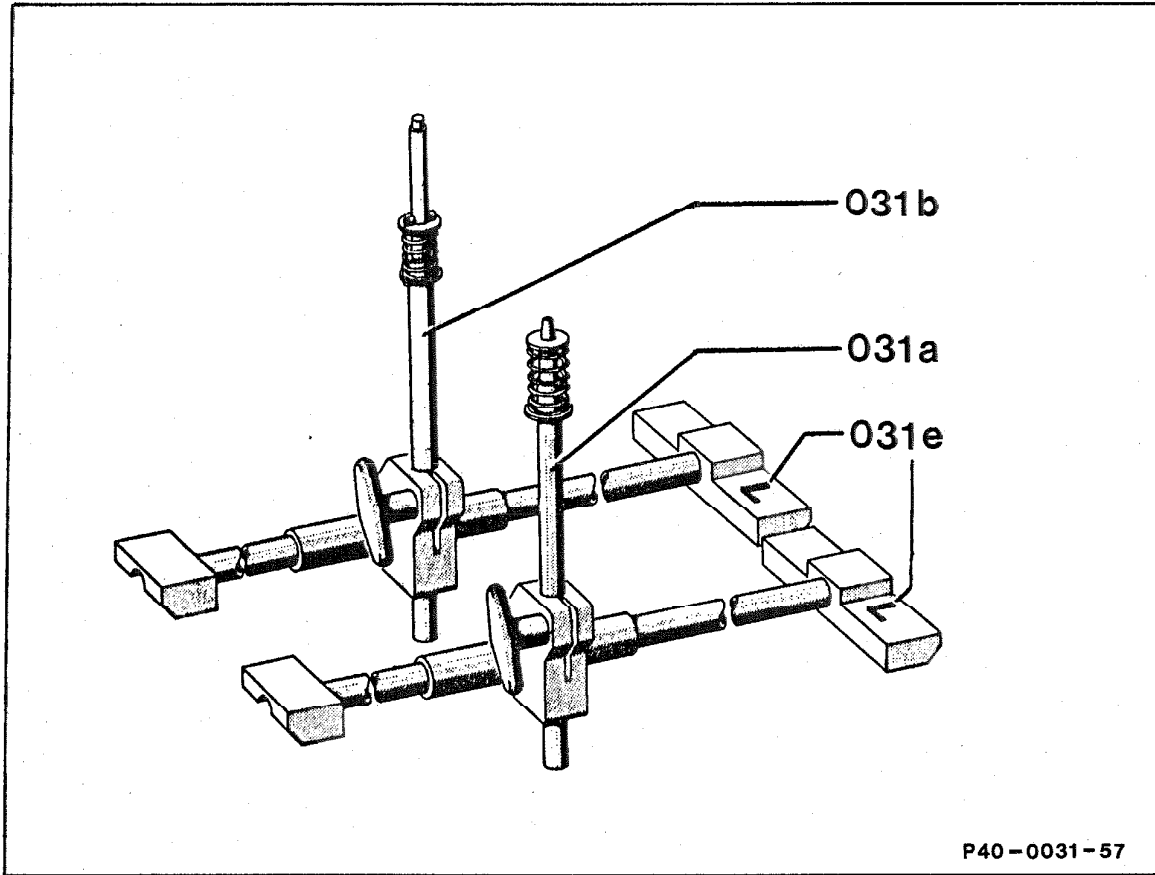


40-220 Aligning vehicle over measuring pit or on hoist

Preliminary work:
General checkups and initial jobs for
chassis alignment check (40-0200)
Positioning of wheels (40-0210)



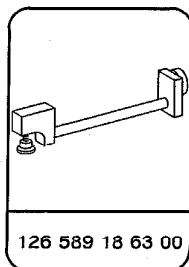
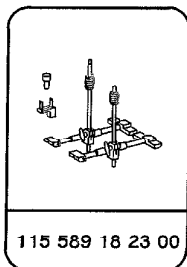
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| | |
|------------------------|---|
| Vehicle | to retain optical measuring device: |
| | A. With special tool (31a, b, c) |
| | 115 589 18 23 00 (figs. 1 to 3). |
| | B. With Perkute aligning device (fig. 5). |
| Aligning fixture | 115 589 18 23 00 check (fig. 4). |

40-220 Aligning vehicle over measuring pit or on hoist

Special tools



Equipment

Aligning slide for use with measuring system.
Universally used for passenger cars, off-road vehicles
and light vans

e.g. Perkute-Gerätebau
D-4440 Rheine
Order no. 100 001

Locking rods for retaining vehicle
(2 each required)

e.g. Perkute-Gerätebau
D-4440 Rheine
Order no. 100 002

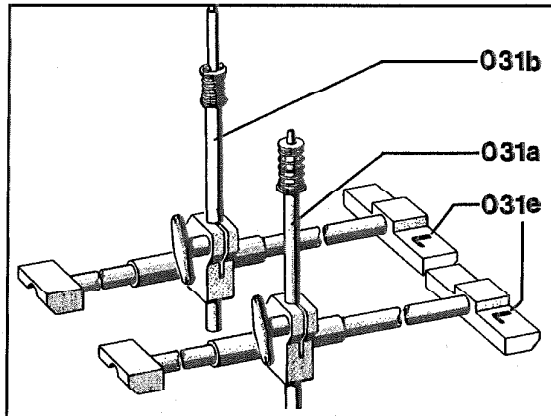
Note

The vehicle must remain securely fixed in
position to the optical measuring device while
measuring and adjusting the wheels.

A. With special tool 115 589 18 23 00

1 After the adjustment the vehicle remains fixed to the measuring instrument through the aligning fixture. The fixture is supported against the measuring pit or hoist, respectively.

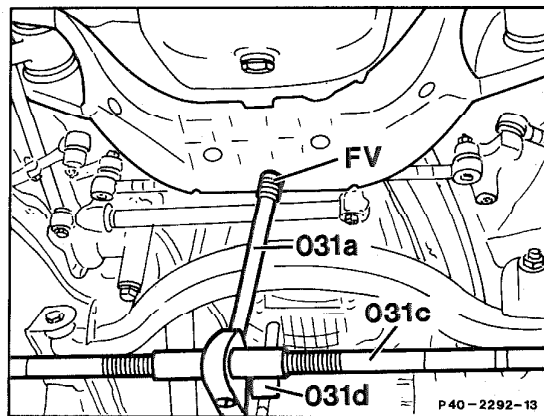
- 031a Aligning fixture - front member
- 031b Aligning fixture - rear member
- 031e Designation "L" for left hand side with red paint



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2 At the front axle, the vehicle will be held in the frame cross member through the locating bore "FV"

- FV Locating bore in frame cross member
- 031a Aligning fixture - front member
- 031c Clamping member for fastening
- 031d Clamping screw for height adjustment

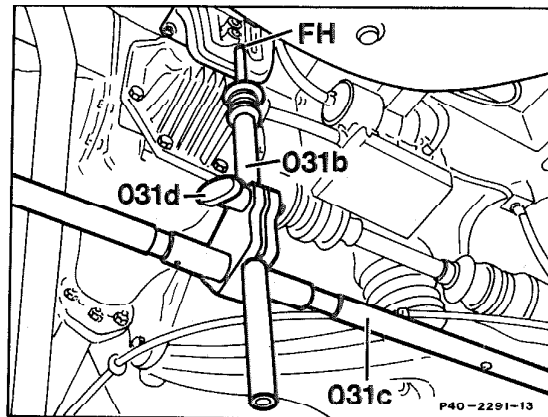


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3 On vehicles built till 07/85 the locating bore "FH" is used in the rubber mount of the rear bearing of the rear axle for holding the vehicle.

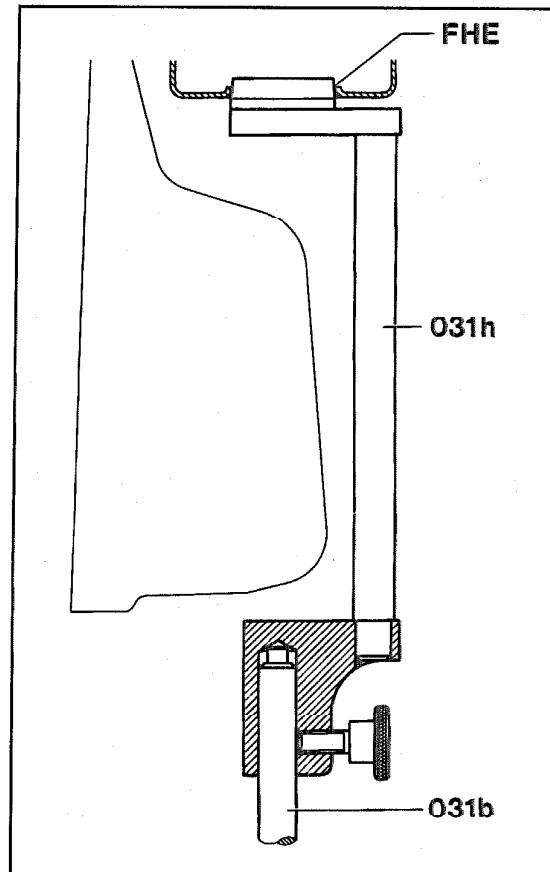
40-220 Aligning vehicle over measuring pit or on hoist

- FH Locating bore in rubber mount of rear bearing
- 031b Aligning fixture - rear member
- 031c Clamping member for fastening
- 031d Clamping screw for height adjustment



P40-2291-13

Since 08/85 the rubber mount on the rear suspension was moved 124 mm off center towards the left. Therefore, it is necessary to use for the rear member (31b) of the alignment fixture the additional mounts 126 589 18 63 00 (31h), in order to hold the rear of the vehicle by means of the locating point "FHE" in the frame cross member.



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40-220 Aligning vehicle over measuring pit or on hoist

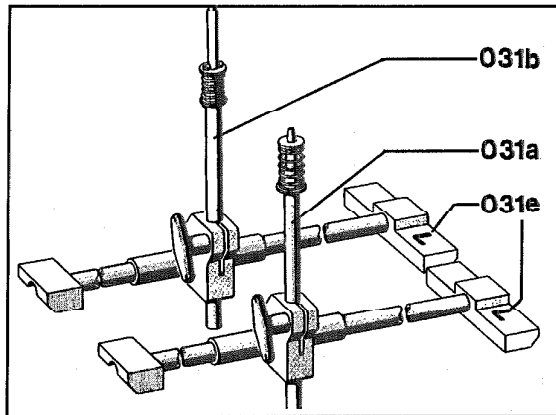
4 Checking the aligning fixture

115 589 18 23 00

The aligning bolts should be at a right angle in relation to light beams of the projectors and in the center of the projectors located opposite to each other.

Note

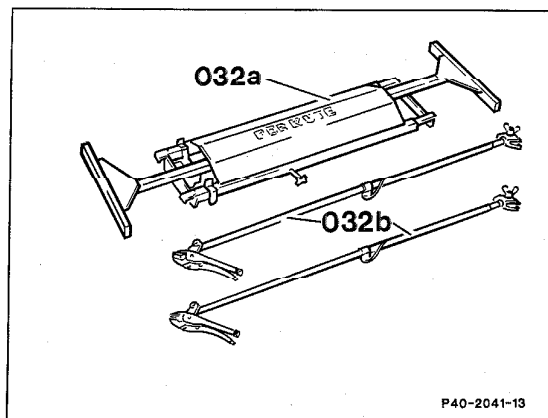
The lateral identification "L" left hand side should always be easily visible.



P100-0031-13

B. Perkute-aligning device

5 Using the Perkute aligning device the front and the rear axles are aligned first with aligning slide (32a) by way of the wheels in relation to the measuring system. Subsequently, the vehicle is held by means of the respective fastening rod (032b).

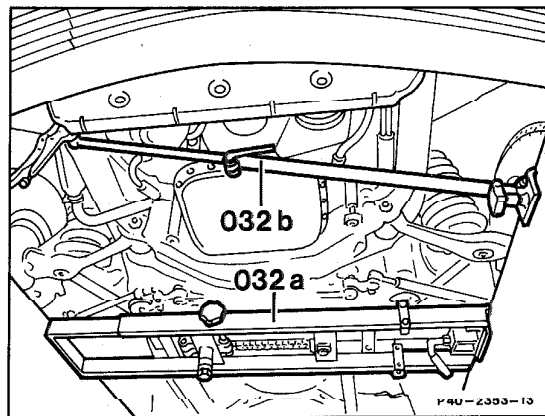


032a Aligning slide
032b Fastening rods

P40-2041-13

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Following the adjustments on the front and rear axles, the respective fastening rod is attached to the wheel deflector of measuring pit or hoist, as well as to frame floor. Afterwards, the telescoping connection of the rod is clamped down.

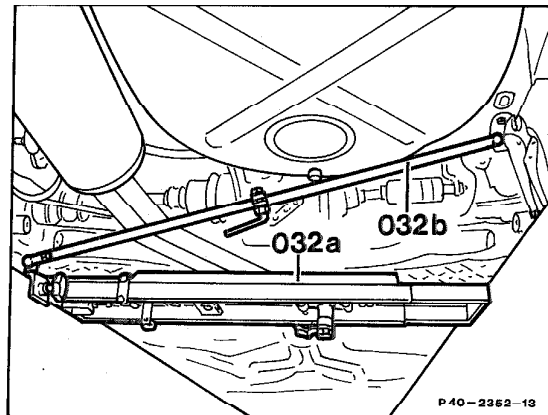


032a Aligning slide
032b Fastening rods

P40-2353-13

P40-2353-13

40-220 Aligning vehicle over measuring pit or on hoist



- 032a Aligning slide
- 032b Fastening rods

P40-2352-13

P40-2352-13