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PSA rear axle repair kits

## Rear axle repair: OPTIMAL makes it possible

In the case of older PSA Group models, defective rear axles can mean a total write-off since the manufacturer's recommendation to exchange the rear axle is usually too expensive to implement. But this is now a thing of the past. PSA rear axle repair kits by OPTIMAL now make efficient and economical repair possible.

Peugeot and Citroën vehicles (for models, see table on p.2) were long fitted with torsion-bar rear axles. This meant the chassis components could be arranged in a space-saving manner. However, the weakness of this lies in the bearing support of the trailing arm. Increased mechanical wear occurs in the support and on the stub shaft, while the sealing material becomes hard and brittle, making it impossible to prevent water from entering the bearing points. Worn bearings and corroded stub shaft are the result. The defective support causes noise and a tilting of the rear wheels becomes visible, with serious consequences for the vehicle's safety on the road.



In such cases, the manufacturer prescribes a complete exchange of the rear axle. And this, for most vehicles, means a complete write-off.

### Repair tip

It is cheaper and more efficient to repair the rear axle using the new PSA repair kits by OPTIMAL. In cooperation with Paschke Profitec, OPTIMAL engineers have developed a nonwearing and cost-effective tool (reference no. WKZ-1111S), enabling an economical repair to be carried out (see photo below).



### Advantages of the OPTIMAL repair kit:

- ✓ Low-cost vehicle repair
- ✓ No need to remove the rear axle
- ✓ Low tool costs
- ✓ Repair on one side possible (left/right)
- ✓ Complete kit in a single pack
- ✓ Assembly instructions enclosed with link to repair video
- ✓ Assembly can also be performed using other tools
- ✓ All components manufactured in comparable OE quality

Technical-Tip: 01/16  
Pictures: OPTIMAL Automotive GmbH



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### Advantages of the OPTIMAL tool:

- ✓ No welding is necessary for pulling the axle journals
- ✓ Long pressure pipe, meaning greater distance to the side part and 360° turns possible
- ✓ Wear-resistant spindle with standard metric thread saves time thanks to a greater transmission ratio of strength and rotation angle
- ✓ The standard thread means there is no self-locking effect (as is the case with fine threads)
- ✓ The spindle has a hexagon allowing it to be countered
- ✓ Torsion-proof spindle nuts (driving nut)
- ✓ Axial bearing unit encapsulated in pressure piece for greater dirt protection
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- ✓ The mechanical tool can be adapted to common hydraulic hollow piston cylinders (less effort required, huge time saving)

Applications	OPTIMAL reference no.	Corresponding reference no. *	Note
205, 306, 309, Xsara (Picasso), ZX	G8-272	965905S	Without tool
206 with RA disc brake (Org. 9501→)	G8-277	965906S	
206 with RA disc brake (→ Org. 9500)	G8-248	965911S	
206 mit HA-Trommelbremse	G8-197	965913S	
405, Partner, Berlingo, Xsara Picasso	G8-276-5017	965912S+965900	Oversize stab shaft
405, Partner, Berlingo, Xsara Picasso	G8-276-5020	965912S+965901	Oversize stab shaft
106, AX, Saxo without stabilizer	G8-274	965909S	
106, AX, Saxo with stabilizer	G8-275	965908S	

\*Attention please. All foreign and original numbers from automobile manufacturers listed in this table are for comparison purposes only and may not be used in invoices to car owners.

### Important notes:

- The installation may only be carried out by qualified specialists. Please check the availability of repair kits beforehand, since vehicles can no longer be moved once the rear axle has been dismantled! The repair or exchange of axle journals may only be performed once per vehicle side
- The assembly instructions can be downloaded from:  
[www.optimal-germany-marketing.de/upload/OPTIMAL\\_PSA\\_rear\\_axle\\_repair\\_en.pdf](http://www.optimal-germany-marketing.de/upload/OPTIMAL_PSA_rear_axle_repair_en.pdf)
- Three repair videos can be watched on:  
 Rear axle repair with OPTIMAL repair kits – part 1: 28 mm  
<https://www.youtube.com/watch?v=y54S9Q50wK4>  
 Rear axle repair with OPTIMAL repair kits – part 2: 34 mm  
<https://www.youtube.com/watch?v=WT-9-cDZqls>  
 Rear axle repair with OPTIMAL repair kits – part 3: 26 mm  
[https://www.youtube.com/watch?v=rvm\\_60wAPw](https://www.youtube.com/watch?v=rvm_60wAPw)

### OPTIMAL - Your profit:

#### Why not take advantage of our training program?

Further information: [www.optimal-germany.com](http://www.optimal-germany.com) / [training@optimal-germany.com](mailto:training@optimal-germany.com)



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