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# *Fitting instructions for steering racks*

**Our parts may only be installed by professionals. Flushing the hydraulic system is a warranty condition and ensures that impurities in the system are cleaned out and that the test oil is completely removed from the pump.**

## 1. Removal:

Observe the general requirements for tidiness and cleanliness in the workshop.

1. Lock the steering wheel in the centre position and detach the steering column from the steering rack. Check whether the universal joint of the steering column is still in good condition.
2. Drain as much fluid from the system as possible.
3. Disconnect the high- and low-pressure line from the steering rack. Make sure that the connections are clean, so that no impurities get in.
4. Remove the steering rack.
5. Check the condition of the pipes. The replacement of pipes older than 5 years is recommended. Replace the filter in the system, if it contains one.
6. Make sure that the reservoir and any filters in the reservoir are completely free of contamination. We recommend, as many manufacturers specify, always to replace the reservoir, as far as this is possible.
7. **Compare the old and new part before starting the installation. Make sure that the parts match each other completely. If there is any uncertainty, please contact our help desk. Place the new steering rack in the centre position using the old steering rack as a reference.**

**Exceptionally, certain types of steering racks are supplied without tie rods. It is not recommended to transfer the old tie rods to the new steering rack, but rather to fit new ones.**

## 2. Installation:

1. For additional assistance, we recommend watching our instructional video about flushing a hydraulic system on our website, www.erabenelux.be.
2. Place the end of the high-pressure line of the pump in a sump tray.
3. Fill the reservoir with new fluid, **according to the OE standards of the vehicle.** Have a colleague start the engine and continue to top up until the liquid coming out of the return line is clear and free of dirt. **DO NOT RUN THE PUMP WITHOUT FLUID!**
4. Mount the tie rods on the new steering rack, if necessary. Make sure you block the rack bar! Install the steering rack in accordance with the manufacturer's instructions. Pay attention to the torque of all the bolts/screws!
5. Fit new tie rod ends.
6. Attach the steering column to the steering rack. Use a new bolt (and nut, if applicable) and tighten according to the manufacturer's standards.
7. Connect the pipes to the steering rack. Provide new gaskets/O-rings and hose clamps where necessary.
8. Lift the car so that the wheels are off the ground.
9. Place the end of the reservoir return line in a sump tray.
10. Have a colleague start the engine and **slowly** turn the steering wheel lock to lock several times. Top up the reservoir until the fluid coming out of the return line is clean. This is necessary to remove the test oil from the new steering rack. **DO NOT RUN THE PUMP WITHOUT FLUID!**
11. Attach the return line back to the reservoir.
12. Fill the reservoir to the correct level.

13. **<u>Slowly and without any abrupt movements,</u>** turn the steering wheel 20 times lock to lock, without running the engine, and with the wheels off the ground. In this way, most of the air is bled from the system.
14. Repeat the previous step, but with the engine running at idling speed. It is possible that the engine speed may need to be increased for a while. In exceptional cases, it is even recommended to use a vacuum pump to bleed the system. Consult our helpdesk in case of persistent problems!
15. Check the oil level again and top up if necessary (make sure the fluid never exceeds the maximum).
16. Check the wheel alignment and correct if necessary. After alignment, make sure the gaiters are not twisted and check that the gaiter clamps are sufficiently tight.
17. Perform an extensive test run.

## 3. Old unit returns:

The deposit will only be refunded if the identical part is returned in its original packaging. Every item must be returned to us in a complete and undamaged condition, with as little remaining oil in the part as possible.

Credit notes will not be issued for items with the following defects:

1. External damage to the body.
2. Damaged mounting points and/or holes.
3. Visibly damaged or oxidised components.
4. Incomplete/disassembled parts.
5. Damaged or missing tie rods for steering racks supplied with tie rods.
6. Blocked moving and/or rotating parts.

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