

Replacing the pinion seal for the bevel gear

Special tools: [998 7693](#) , [999 5069](#) , [999 5304](#) , [999 5504](#) , [999 5561](#) , [999 5652](#) , [999 5653](#)

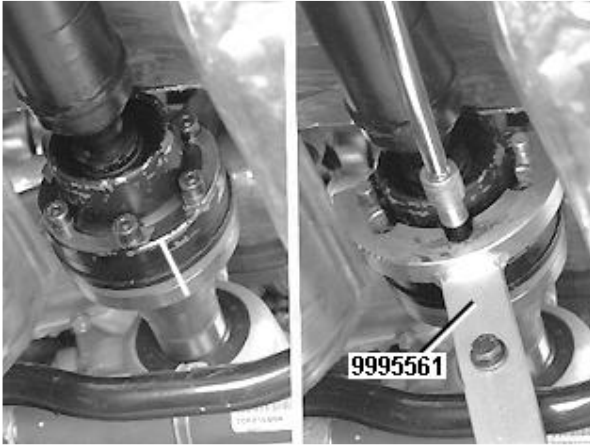
Note! Check that the handbrake is not applied and that no gear is engaged.

Marking the propeller shaft and flange

Mark up the propeller shaft constant velocity joint in relation to the bevel gear flange

Remove the screws for the propeller shaft

Use counterhold [999 5561](#) . The tool must be modified according to the Workshop Guide Bulletin.

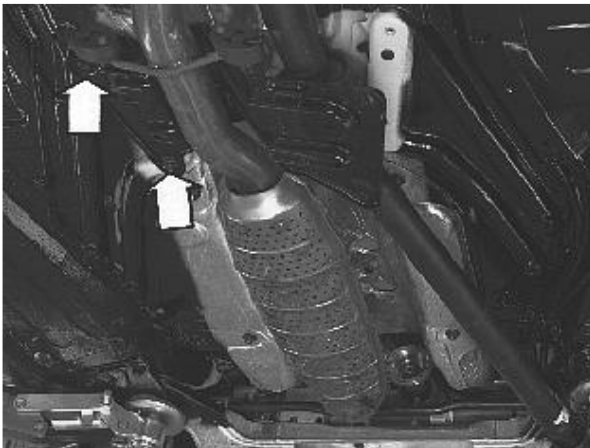


Removing the screws from the bracket and cross-member for the propeller shaft

Remove the two screws for the centre bearing bracket for the propeller shaft from the member (removed in illustration)

Remove the screws for the member on the left-hand side. Remove the screws on the right hand side (removed in the illustration)

Push the propeller shaft to the right. Tie the shaft at the front end and let it rest on the member

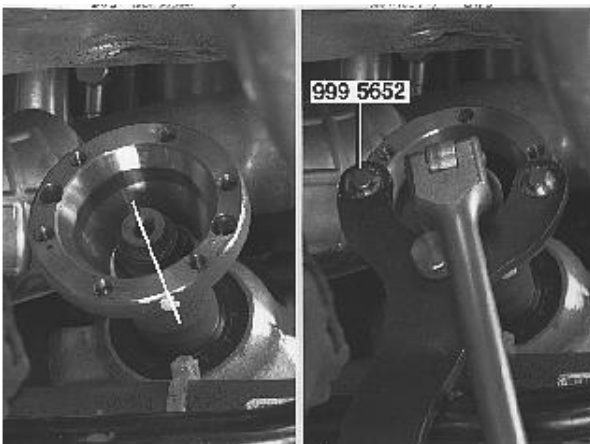


Removing the nuts for the bevel gear flange

Mark the position of the flange and nut in relation to the pinion shaft end

Remove the nut

Use counterhold [999 5652](#) .

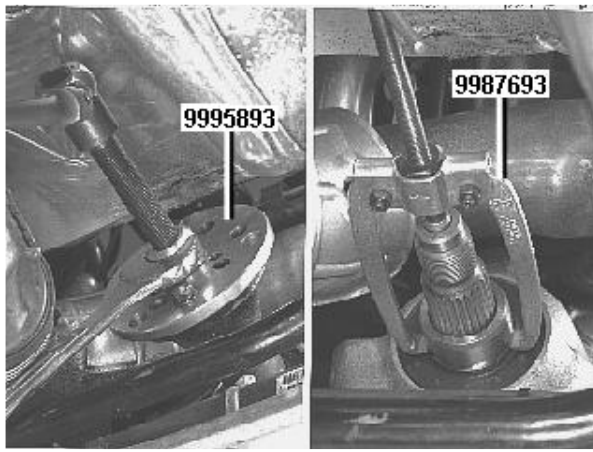


Removing the flange and the spacer sleeve for the pinion

Remove:

- the flange. Use puller [999 5304](#)
- the pinion spacer sleeve. Use puller [998 7693](#) or a universal puller.

Use a container to collect oil spillage.

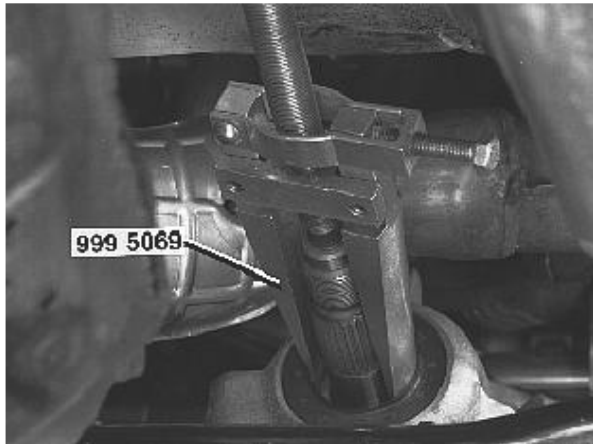


Removing the seal

Remove the seal

Use puller [999 5069](#) .

Note! Check that no seal residue is left. Check that the sealing face on the pinion spacer sleeve is OK.



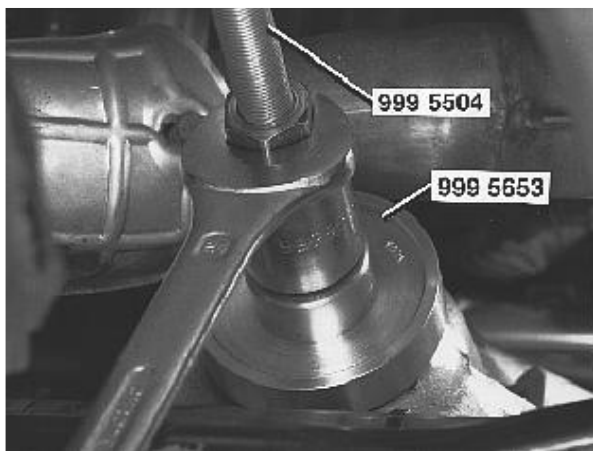
Installing the seal

Install the seal

Lubricate the sealing ring lip. Use wheel bearing grease, P/N 1161241-3. Install the seal on drift [999 5653](#) against the side of the tool marked 1155.

Press in the seal

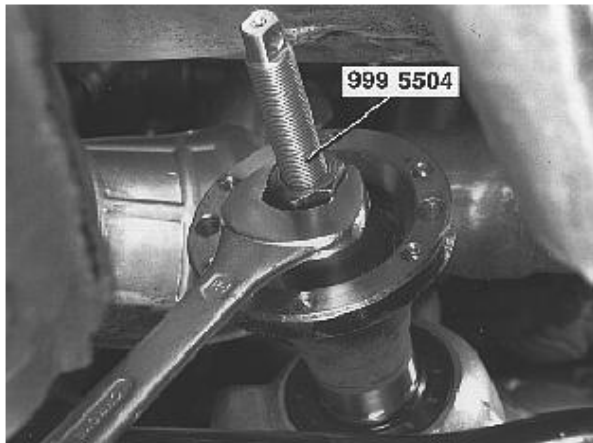
Use press tool [999 5504](#) .



Installing pinion spacer sleeve and flange

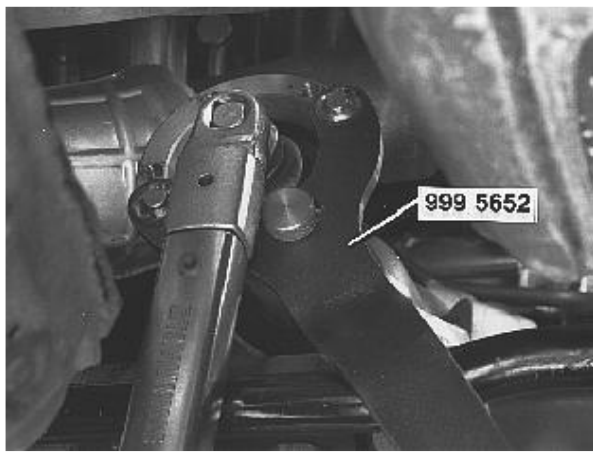
Install the spacer sleeve and flange for the pinion according to the markings made earlier

If necessary, use tool [999 5504](#) .



Installing a new nut for the flange

Note! Do not use a pneumatic air hammer.



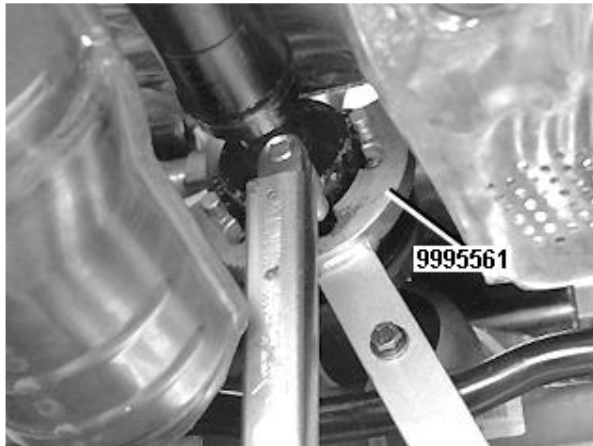
Install the marked nut.

Tighten to **180 Nm**. Use counterhold **999 5652**.

There must be no axial play.

Check the marking for the pinion nut against the pinion

The marking on the pinion nut must have passed the marking on the pinion by 5–10°. If necessary increase the torque to achieve this.



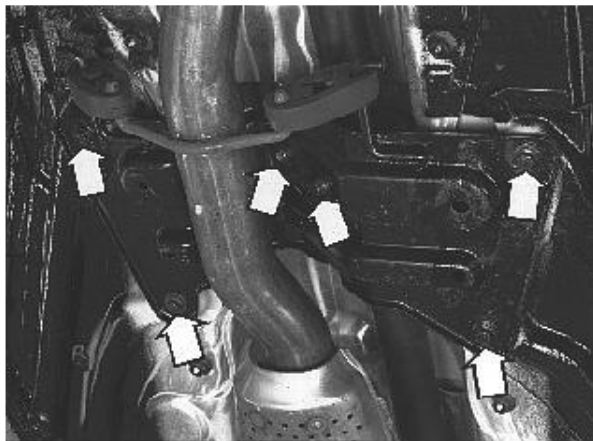
Installing the propeller shaft on the bevel gear

Install the propeller shaft according to "reference to A1" on the bevel gear flange

Use **new** screws.

First tighten the screws crosswise. Tighten to **8 Nm**.

Then tighten to **30 Nm**. Start tightening with the same screw both times. Use counterhold **999 5561**. The tool must be modified according to the Workshop Guide Bulletin.



Installing the centre bearing member and the centre bearing bracket

Install:

- the support for the centre bearing on the car body.
Tighten to **25 Nm**
- the bracket for the centre bearing on the member.
Tighten to **25 Nm**.

Checking the oil level in the bevel gear

Check the oil level in the bevel gear

Only use gearbox oil with P/N 116 1618–2 (1000 ml).

Right-hand drive cars:

The oil level plug is difficult to access on right-hand drive and early left-hand drive cars. See the method below

Remove:

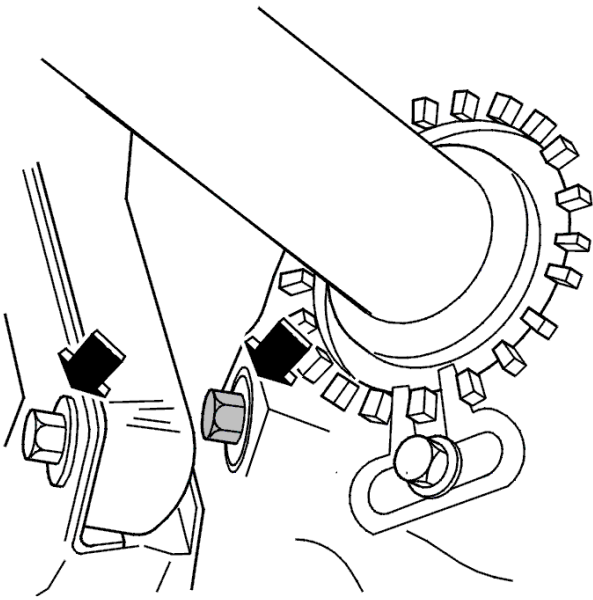
- The collision protection system.

Check the oil level

After checking the oil level:

- Reinstall the plug. Tighten to **35 Nm**
- Reinstall the collision protection system. Tighten to

80 Nm.



Left-hand drive cars with the early type of vibration damper: (before chassis no.: 318613)

Remove:

- The vibration damper.

Check the oil level

After checking the oil level:

- Reinstall the plug. Tighten to **35 Nm**
- Reinstall the vibration damper. Tighten to **25 Nm**.

