

Drive flange seal, replacing

- Transmission installed
- Observe general repair instructions ⇒ [Page 00-10](#) .

Special tools and equipment

- ◆ VW195 arbor
- ◆ VW295 needle bearing drift
- ◆ VW681 extractor lever
- ◆ VAG1306 drip tray

Notes:

- ◆ *The following illustration shows removal and installation of the left seal.*
- ◆ *The same procedure is used for the left and right seals.*
- ◆ *The exhaust system need not be removed.*

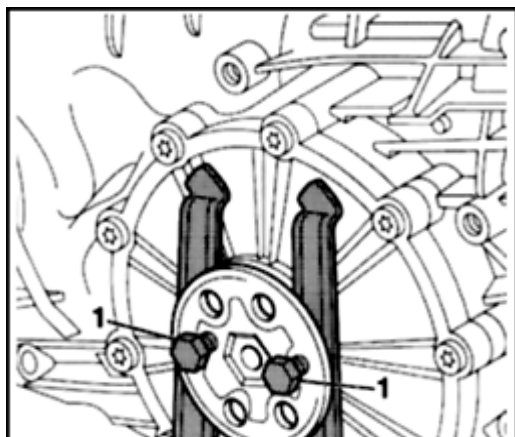
- ◆ *Flanges with and without polygon bearings are used. Application ⇒ [Page 00-3](#) .*

Removing

- Remove heat shield for drive axle.
- Remove drive axle from transmission drive flange.

⇒ [Repair Manual, Suspension, Wheels, Steering, Repair Group 40](#)

- Turn steering as far to left as possible.
- Tie up drive axle as high as possible. Do not damage paint on drive axle.
- Place VAG1306 drip tray under transmission.

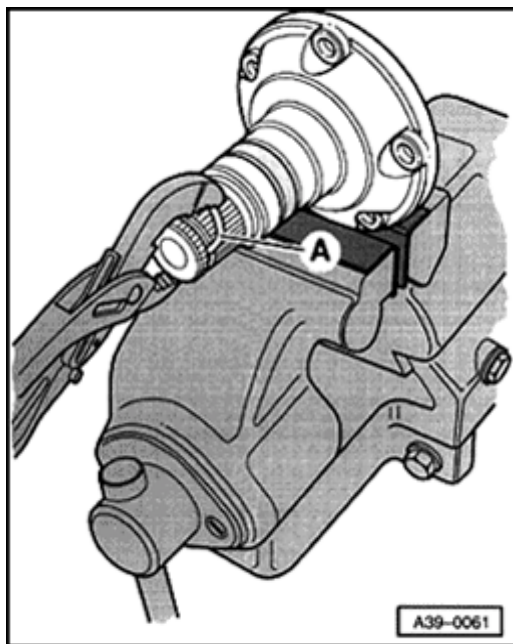


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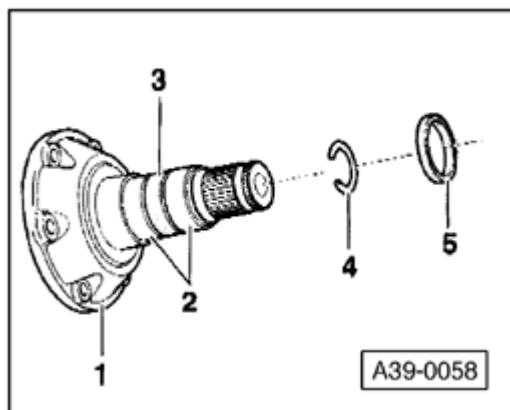
- Have second technician hold two tire irons -2- under drive flange.
- To remove drive flange, install two bolts -1- evenly into two opposite bores in drive flange.

Note:

The drive flange must be removed evenly and parallel. If pressure is only applied to one side, the differential may break.

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- Always replace circlip for drive flange.
- Clamp drive flange into vise using protective jaws. Press circlip out of groove in drive flange by pressing in new circlip -A-.
- Remove drive flange seal using VW681 extractor lever.



Setup of drive flange with polygon bearing

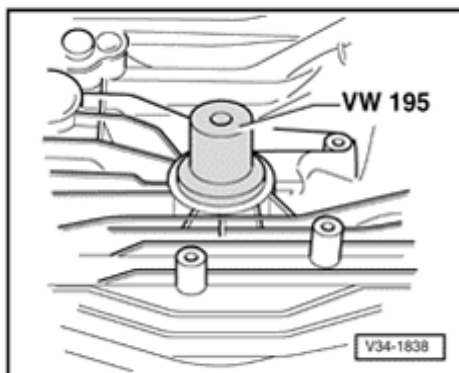
- 1 - Drive flange
- 2 - Needle bearing (polygon bearing)
- 3 - Spacer ring
- 4 - Circlip
- 5 - Spacer ring (is installed additionally if spline diameter is 30 mm)

Notes:

- ◆ *The rough operation of the polygon bearing with the drive flange not installed is not an indication that the bearings are malfunctioning. An acoustic check can only be carried out while installed.*
- ◆ *Watch for damage to the polygon bearings (e.g. cracks in bearing outer ring).*
- ◆ *Polygon bearings can only be replaced together with drive flange.*
- ◆ *A spacer ring -5- is installed between the polygon bearing and differential pinion for drive flanges with a spline diameter of 30 mm (1.2 in.).*

Installing

- Lubricate area between sealing lip and dust lip with a thin layer of multi-purpose grease.
- Lightly oil outer circumference of seal.

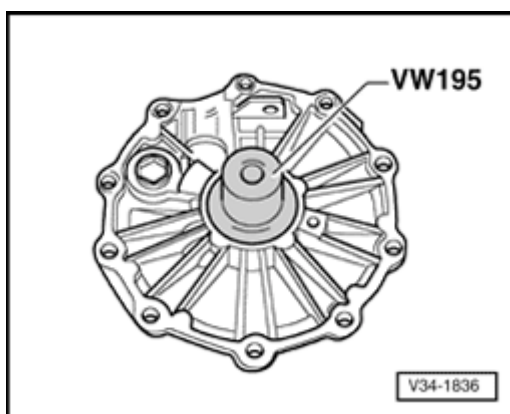


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- Drive in new right-hand drive flange seal 5.5 mm (0.217 in.) below transmission housing surface, without canting.

Note:

If reinstalling an old drive flange, the seal must be pressed in approximately 6.5 mm (0.256 in.) so that the new seal does not sit on the running surface of the old seal.



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- Drive in new left-hand drive flange seal 5.5 mm (0.217 in.) below transmission cover surface, using VW195 arbor, without canting.

Note:

If reinstalling an old drive flange, the seal must be pressed in approximately 6.5 mm (0.256 in.) so that the new seal does not sit on the running surface of the old seal.

- Drive in drive flange using VW295 needle bearing drift.
- Bolt drive axle to drive flange.

- Install heat shield for drive axle.
- Check transmission oil level ⇒ [Page 34-36](#) .

Tightening torques

Component		Tightening torque
Drive axle to drive flange	M8	40 Nm (30 ft lb)
	M10	77 Nm (57 ft lb)
Heat shield for drive axle		23 Nm (17 ft lb)