

## Drive flange seal, replacing

- Transmission installed
- Observe general repair instructions ⇒ [Page 00-14](#) .

### Special tools and equipment

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

### Notes:

- ◆ *Removal and installation of the left seal is shown in the following illustration.*
- ◆ *The procedure for left and right seal is the same.*
- ◆ *The exhaust system does not need to be removed.*

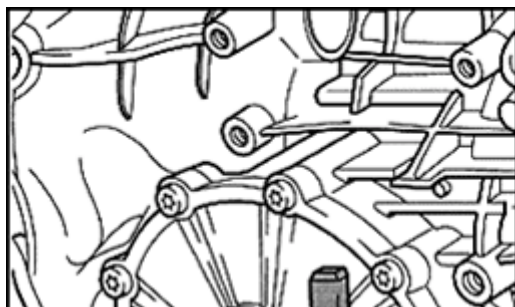
- ◆ *Transmission code CXF: drive flanges are installed without polygon bearings.*
- ◆ *For drive flanges with a gear diameter of 30 mm (1.181 in.) a spacer ring is installed between the polygon bearing and the tapered bearing ⇒ [Page 39-4](#) .*

## Removing

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

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

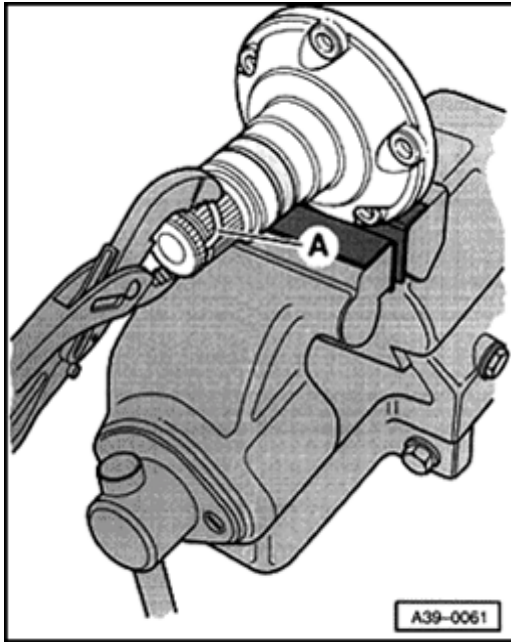
- Turn steering as far to left as possible.
- Tie-up drive axle as high as possible. Do not damage paint on drive axle.
- Place VAG1306 drip tray underneath transmission.
- Place chisel or spacer -A- under drive flange.
- Turn bolt -B- to pull drive flange out of differential bevel gears.



### **Note:**

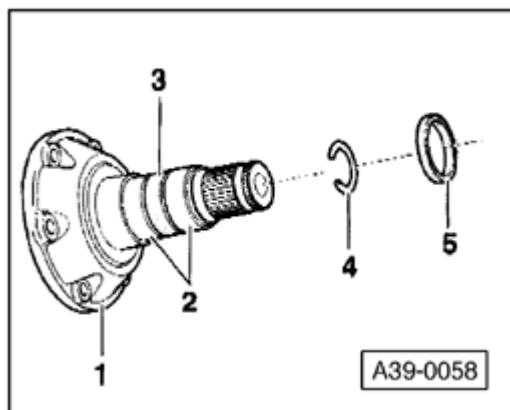
*If the drive flange does not come out easily, turn the drive flange and insert a bolt in the hole on the opposite side to assist removal.*

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



#### Setup of drive flange with polygon bearing

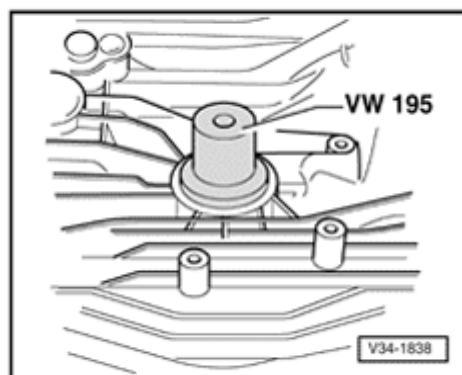
- 1 - Drive flange
- 2 - Needle bearing (Polygon bearing)
- 3 - Spacer ring
- 4 - Circlip
- 5 - Spacer ring (is installed additionally if spline diameter is 30 mm or 1.181 in.)

#### Notes:

- ◆ The rough surface of the polygon bearings 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 rings).
- ◆ Polygon bearings can only be replaced together with the drive flanges.
- ◆ For drive flanges with a spline diameter of 30 mm (1.181 in.) a spacer ring -5- is installed between the polygon bearing and the tapered bearing.

## Installing

- Fill space between sealing lip and dust lip with gear oil.
- Lightly oil outer circumference of seal.

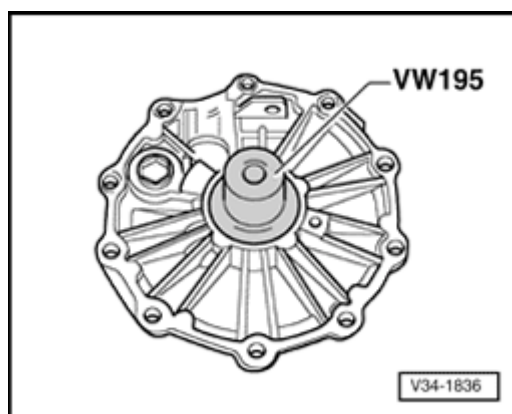


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- Drive in right-hand drive flange seal 5.5 mm (0.216 in.) below outer transmission housing surface using VW195 arbor, without canting.

### Note:

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



A

- Drive in left drive flange seal 5.5 mm (0.216 in.) below outer transmission housing surface using VW195, without canting.

### Note:

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

- Install drive flange using VW295 needle bearing drift.
- Bolt drive axle on drive flange.

- Install drive axle heat shield.
- Check transmission oil level ⇒ [Page 34-38](#) .

### Tightening torques

Component		Nm (ft lb)
Drive axle to drive flange	M8	40 Nm (30 ft lb)
	M10	80 Nm (59 ft lb)
Heat shields for drive axles		23 Nm (17 ft lb)