

# Schaeffler E-Axle RepSystem-G

Part no. 761 0004 10

Repair solution for e-axle  
disassembly/assembly

VW, 0CZ transmission, transmission code PYW



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May 2025

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## Disassembly and assembly

### VW, 0CZ transmission, transmission code PYW

- The vehicle manufacturer's specifications and safety instructions must be observed when removing and installing the drive unit
- Work on electric vehicles may only be carried out in compliance with country-specific legal regulations
- Repairs may only be carried out by specialist staff and using suitable garage equipment
- The bearing seats and the seats of the rotary shaft seals need to be cleaned
- The bearing outer rings and the inner rings/rolling elements must not be interchanged
- Cleanliness must be ensured throughout the entire repair process



- Drain the transmission oil
- Tighten the oil drain screw to 45 Nm
- Remove the drive unit in accordance with the vehicle manufacturer's specifications



- Remove the engine-side shaft seal of the drive shaft

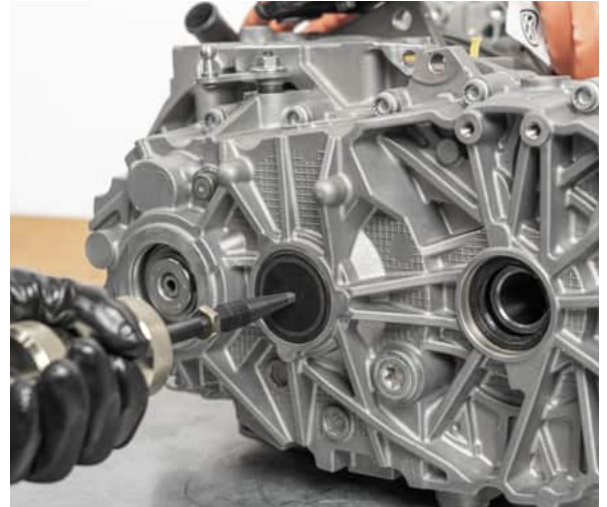
**Note:**

Note the installation depth of the shaft seal ring

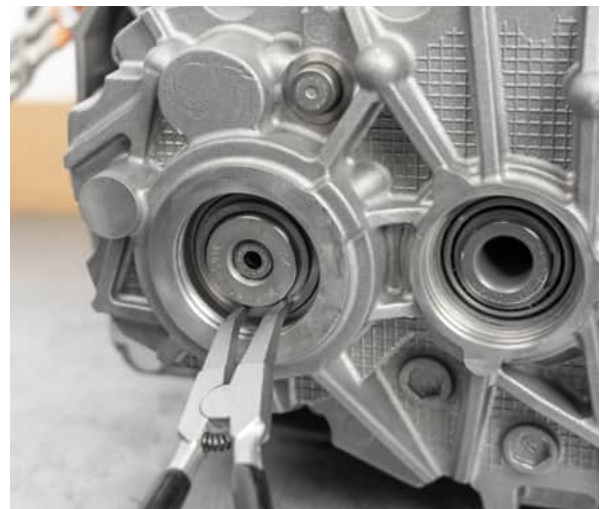
Do not damage the baffle plate under the shaft seal



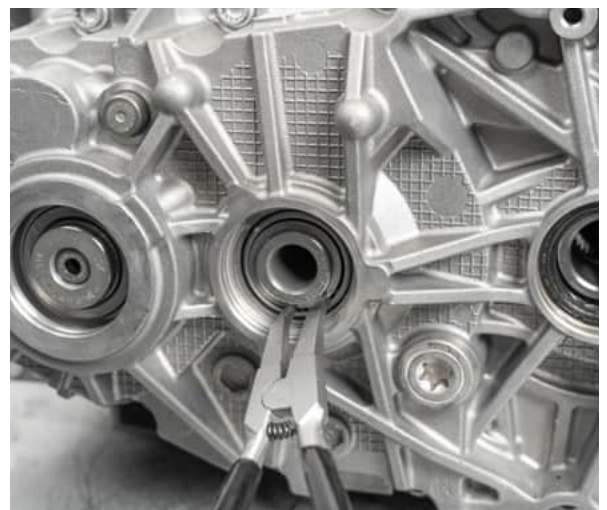
- Remove both sealing covers using a suitable tool  
e.g. Gedore Automotive KL-0369-59



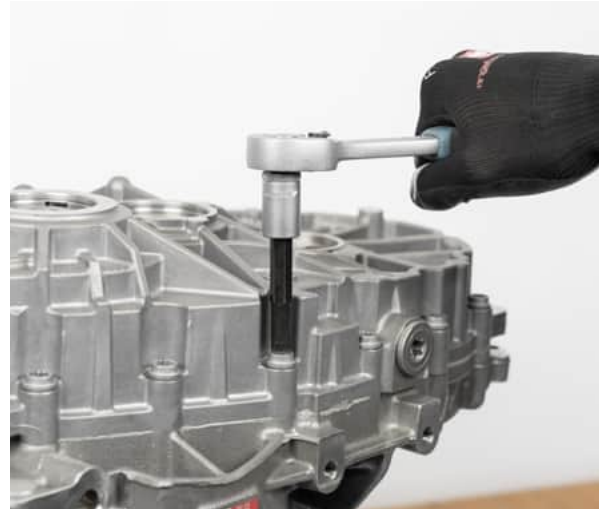
- Remove the snap ring from the input shaft



- Remove the snap ring from the output shaft



- Install the drive unit
- Remove the transmission housing screws



- Lift the transmission housing evenly up and off using a suitable tool (e.g. mounting lever)



- Remove and clean the magnet
- Remove the oil drip pan
- Remove the output shaft and differential gear from the housing





- Remove the parking lock lever



- Remove shaft seal ring from the selector shaft using a suitable tool

**Note:**

Note the installation depth of the shaft seal ring



- Mount the new shaft seal to the previous installation depth using a suitable sleeve.



- Mount the parking lock lever
- Hold in place when tightening the screw nut
- Tighten the screw nut to 20 Nm

**Note:**

The vehicle manufacturer recommends using a new screw nut; the corresponding item number is listed in the appendix



- Place the detent in the unlocked position
- Press the input shaft out of the transmission housing
- Clean the input shaft



- Remove the snap ring





- Press the ball bearing of the input shaft out of the transmission housing



- Press the bearing outer ring of the output shaft out of the transmission housing

**Note:**

An adjusting washer is located under the bearing outer ring

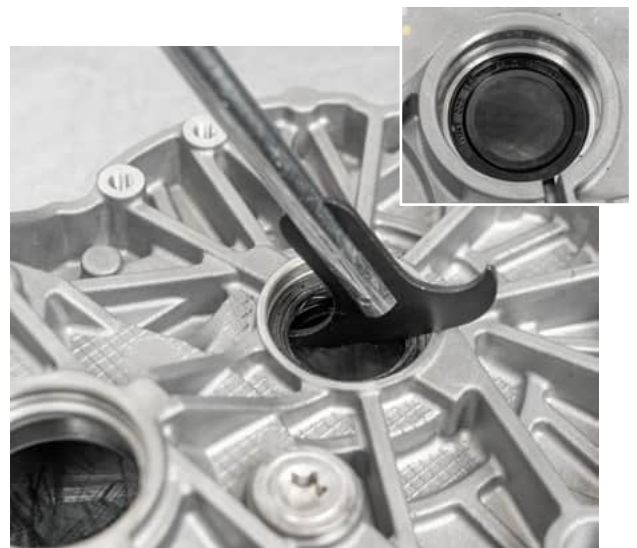


- Remove the transmission-side shaft seal of the differential gear

**Note:**

Note the installation depth of the shaft seal ring

Do not damage the baffle plate under the shaft seal



- Remove the transmission-side bearing outer ring using a suitable internal extractor

**Note:**

An adjusting washer is located under the bearing outer ring

Do not damage the baffle plate under the bearing outer ring



- Remove the baffle plate



- Remove the sealing residue
- Clean the transmission housing



- Insert the baffle plate



- Place the old adjusting washer for the differential gear in the transmission housing
- Press the new bearing outer ring into the housing



- Press in the new transmission-side shaft seal of the differential gear to the previous installation depth



- Press the new ball bearing of the input shaft into the transmission housing



- Insert the snap ring



- Place the adjusting washer for the output shaft in the transmission housing
- Press the new bearing outer ring of the output shaft into the housing



- Remove the engine-side bearing outer ring on the output shaft using a suitable internal extractor
- Remove the adjusting washer



- Remove the engine-side bearing outer ring of the differential gear using a suitable internal extractor
- Remove the adjusting washer

**Note:**

Do not damage the baffle plate under the shaft seal

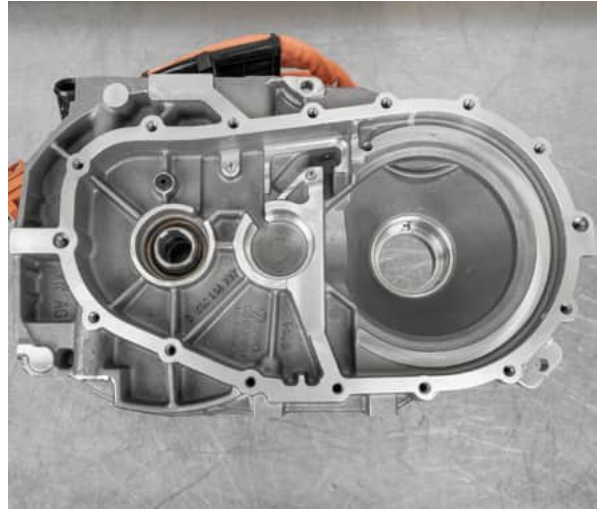


- Remove the baffle plate





- Remove the sealing residue
- Clean the engine-side housing



- Remove the shaft seal on the rotor shaft

**Note:**

Note the installation depth of the shaft seal ring



- Press in the new shaft seal of the rotor shaft to the previous installation depth





- Press in the new engine-side bearing outer ring of the output shaft **without** adjusting washer

**Important:**

The correct adjusting washer is not determined until a later work step and is then mounted



- Insert the baffle plate



- Press in the new engine-side bearing outer ring of the differential gear **without** adjusting washer

**Important:**

The correct adjusting washer is not determined until a later work step and is then mounted



- Remove the engine-side taper roller bearing of the differential gear



- Remove the transmission-side taper roller bearing of the differential gear
- Clean the differential gear



- Press the new transmission-side taper roller bearing onto the differential gear



- Press the new engine-side taper roller bearing onto the differential gear



- Cut open the cage on the engine-side taper roller bearing of the output shaft and remove the rolling elements
- Remove the inner ring



- Press the transmission-side taper roller bearing off of the output shaft
- Clean the output shaft



- Press the new transmission-side taper roller bearing onto the output shaft



- Press the new engine-side taper roller bearing onto the output shaft



- Insert the differential gear into the housing



- To be able to measure the axial clearance of the output shaft, a suitable lifting device, such as a threaded rod with a welded-on washer, is required



- Insert the lifting device with the output shaft into the housing



- Mount the prepared transmission housing without the input shaft
- Tighten the screws to 15 Nm



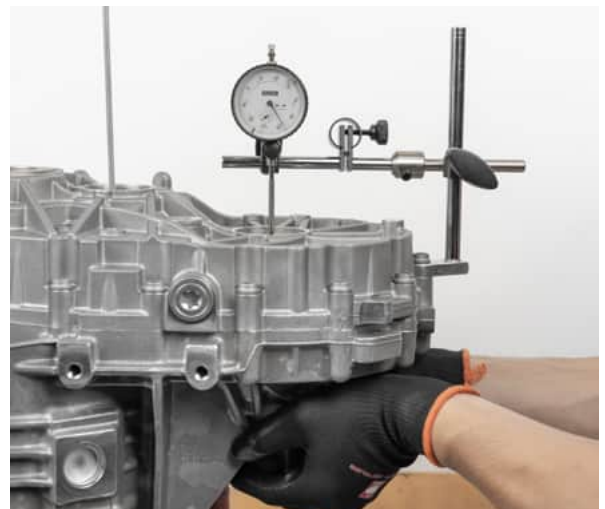
- Mount the dial gauge as shown and ensure that the measuring tip is pre-loaded

**Note:**

The measuring tip should rest on the differential gear



- With your hand, press the differential gear upward on the opposite side so that it is up against the stopper and read the measured value



- The required bearing preload is **0.30 to 0.35 mm**

- Determining the adjusting washer:  

$$\begin{array}{r} \text{Measured value in mm} \\ + 0.30 \text{ to } 0.35 \text{ mm preload} \\ \hline = \text{Thickness of adjusting washer in mm} \end{array}$$

**Example:** Measured value = 0.57 mm  

$$\begin{array}{r} 0.57 \text{ mm} \\ + 0.30 \text{ to } 0.35 \\ \hline = 0.87 \text{ to } 0.92 \text{ mm} \end{array}$$

- Note the value





- Mount the dial gauge as shown and ensure that the measuring tip is pre-loaded

**Note:**

The measuring tip should rest on the output shaft



- Using the lifting device, pull the output shaft upward so that it is against the stopper and read the measured value



The required bearing preload is  
**0.25 to 0.30 mm**

Determining the adjusting washer:

$$\begin{array}{r} \text{Measured value in mm} \\ + 0.25 \text{ to } 0.30 \text{ mm preload} \\ \hline = \text{Thickness of adjusting washer in mm} \end{array}$$

**Example:** measured value = 0.95 mm

$$\begin{array}{r} 0.95 \text{ mm} \\ + 0.25 \text{ to } 0.30 \text{ mm} \\ \hline = 1.20 \text{ to } 1.25 \text{ mm} \end{array}$$

- Note the value



- Remove the transmission housing cover
- Remove the output shaft from the engine housing using the lifting device



- Take the differential gear out of the engine housing



- Remove the engine-side outer ring of the output shaft again



- Insert the previously determined adjusting washer (e.g. 1.20 mm) into the bearing seat

**Note:**

The adjusting washer table with part numbers can be found in the appendix



- Press the new engine-side outer bearing ring for the output shaft back into place



- Remove the engine-side outer ring of the differential gear

**Note:**

Do not damage the baffle plate under the shaft seal



- Insert the previously determined adjusting washer (e.g. 0.90 mm) into the bearing seat

**Note:**

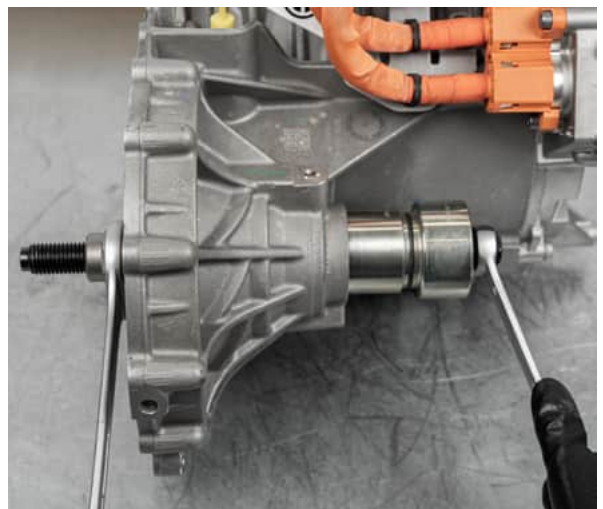
The adjusting washer table with part numbers can be found in the appendix



- Press in the new engine-side bearing outer ring of the differential gear



- Press in the new engine-side shaft seal of the differential gear to the previous installation depth



- Place the detent in the unlocked position
- Press the input shaft into the transmission housing

**Note:**

Support the inner ring of the bearing from below with a suitable sleeve



- Insert the differential gear and the output shaft into the engine housing



- Clean the oil drip pan and make sure that the oil holes are clear
- Insert the oil drip pan into the engine housing
- Position the magnet

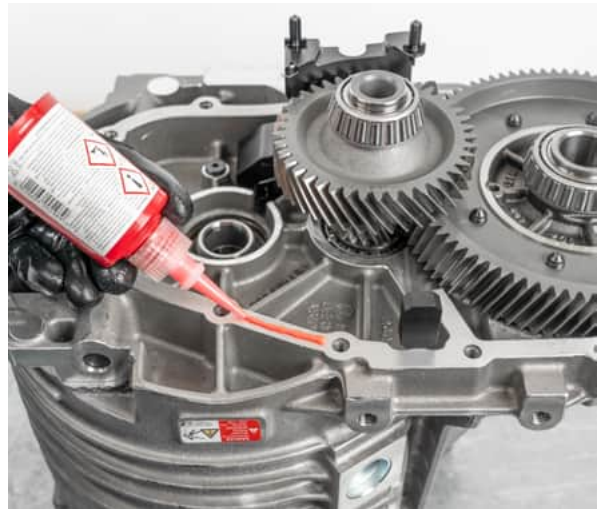




- Clean the sealing surfaces using a suitable cleaning agent, e.g. Loctite SF 7063
- Apply a suitable sealant, such as Loctite 510, to the engine housing
- Mount the transmission housing

**Note:**

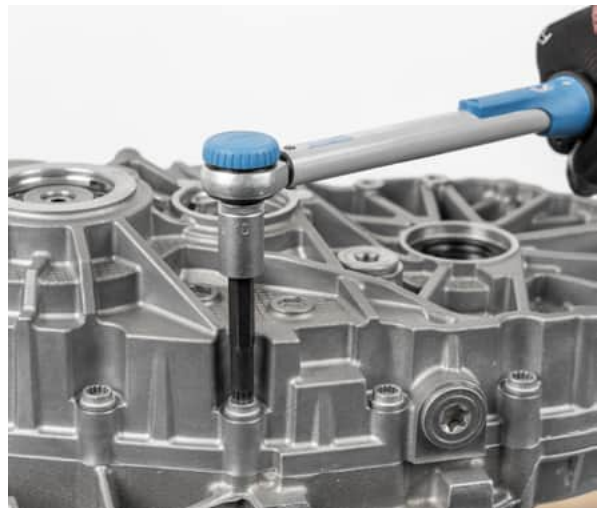
Ensure that the guide sleeves are correctly positioned in the housing



- Insert the screws and tighten to 20 Nm + 45°

**Note:**

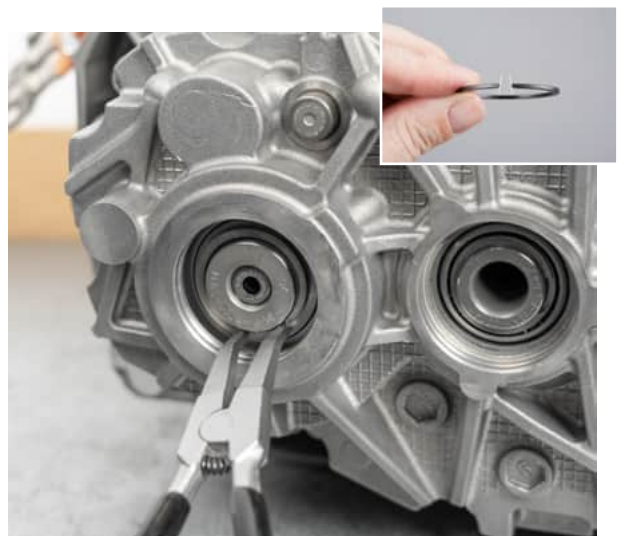
It is recommended to use new screws; the corresponding part number can be found in the appendix



- Mount the snap ring of the input shaft

**Note:**

The side of the snap ring on which the opening is smaller faces outward.

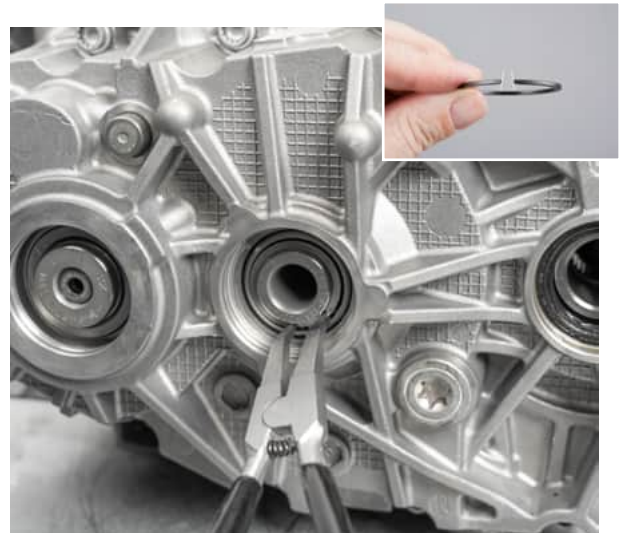




- Mount the snap ring of the output shaft

**Note:**

The side of the snap ring on which the opening is smaller faces outward.



- Mount new sealing caps flush with the surface



- Replace the sealing ring of the transmission housing vent



- Reinstall the drive unit, observing the vehicle manufacturer's instructions

Transmission oil quantity: 0.7 liters Oil  
specification: VW G 052 527 A2 Tightening  
torque for oil checking screw: 45 Nm



## APPENDIX

### Adjusting washers for the differential gear bearing

Part number: 464 0030 10

Washer thickness:
0.65 mm
0.70 mm
0.75 mm
0.80 mm
0.85 mm
0.90 mm
0.95 mm
1.00 mm
1.05 mm
1.10 mm
1.15 mm
1.20 mm
1.25 mm

If necessary, two adjusting washers can be used in combination.

### Adjusting washers for output shaft bearing

Part number: 464 0028 10

Washer thickness:
0.65 mm
0.70 mm
0.75 mm
0.80 mm
0.85 mm
0.90 mm
0.95 mm
1.00 mm
1.05 mm
1.10 mm
1.15 mm
1.20 mm
1.25 mm
1.30 mm
1.35 mm
1.40 mm
1.45 mm
1.50 mm

If necessary, two adjusting washers can be used in combination.



If individual adjusting washers are required to supplement the set, they can be ordered at <https://www.repxpert.com/en/repssystem-g-shims>.

## **APPENDIX**

**The following spare parts can be ordered from  
VW spare parts dealers.**

**1. Screw nut for parking lock lever**

self-locking screw nut, M8,

VW part number N 907 611 033

**2. Transmission housing screws**

M8 x 45-mm screw,

VW part number N 911 021 01

