

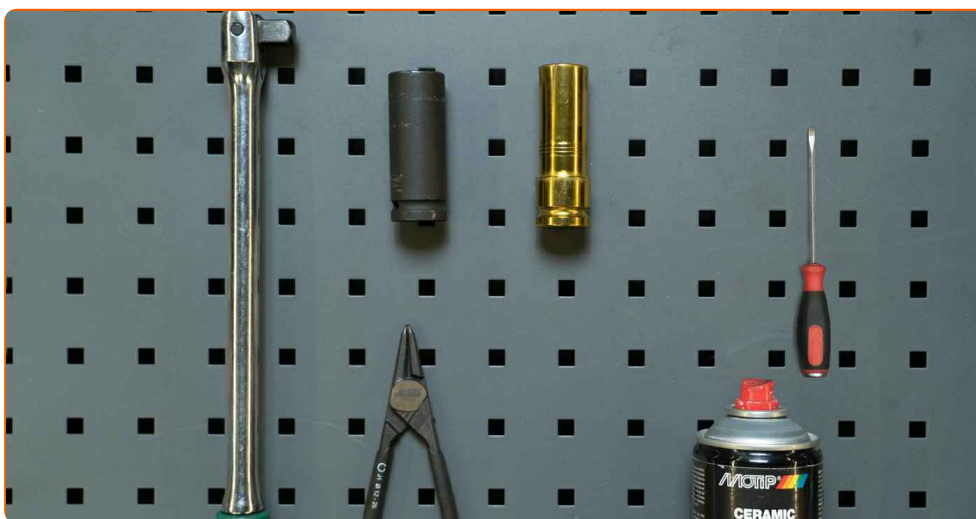


How to change drive
shaft on a car –
replacement tutorial

VIDEO TUTORIAL



REQUIRED TOOLS:



- Flat screwdriver
- Tap wrench
- Wheel impact socket
- Impact socket
- Ceramic grease
- Jack
- Circlip pliers

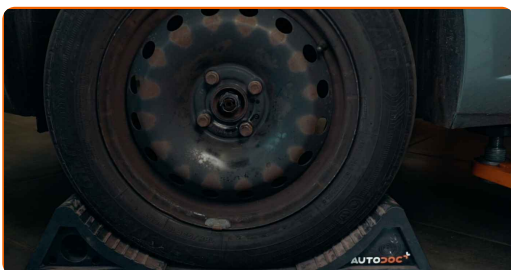
BUY TOOLS

Please note!

- A CV axle transmits torque from the differential to the wheels
- The location and number of CV axles depends on the drive type: front, rear, or all-wheel drive
- It is often necessary to replace a CV axle if the shaft or CV joint is damaged

1

Secure the wheel with the wheel chocks before getting down to work

**2**

Loosen the fastener that attaches the CV axle to the wheel hub



Important!

- The CV axle can be attached to the hub with a nut or bolt

- 3 To disconnect the outer CV joint from the hub, you may need to disconnect some suspension components and the ball joint, or remove the steering knuckle assembly



- 4 The outer CV joint splines usually get stuck to the hub, so it should be knocked out



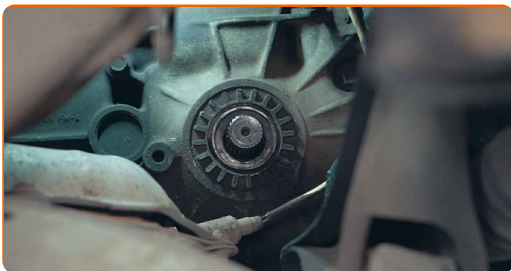
The inner CV joint can be attached in different ways:

- it can be inserted into the differential and secured with a snap ring
- it can be fastened with bolts to the differential flange
- it can be attached to the splined shaft that comes out of the differential and secured with a lock pin

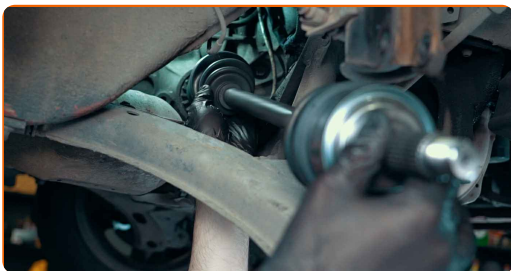
- 5 Remove the lock pin and detach the CV axle



6 Inspect the splined counterpart for damage



7 Clean it and install a new CV axle



8 If there is a flange mounting, unscrew the bolts



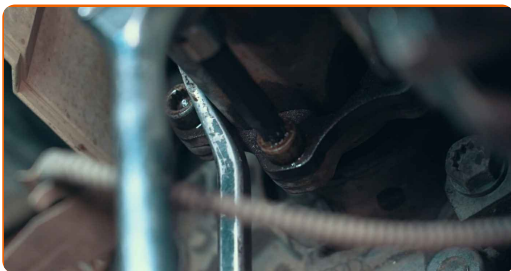
AUTODOC experts recommend:

- Hold the CV axle in place to prevent it from turning

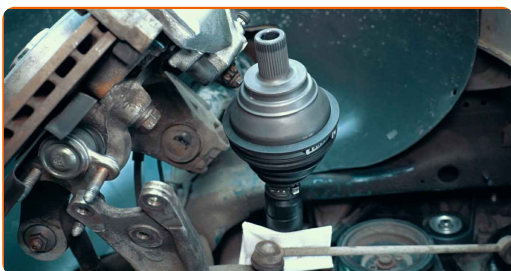
9 In some cases, it may be necessary to remove the boot to access the fasteners



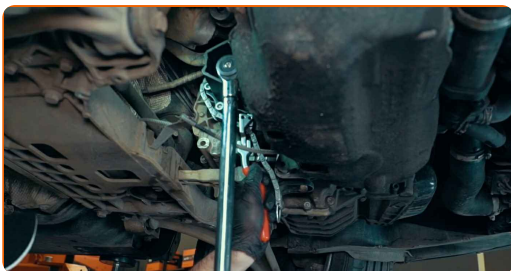
10 Unscrew the flange and clean it



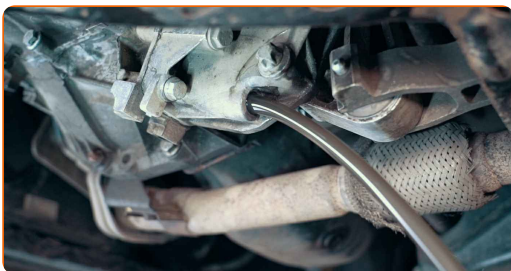
11 Install a new CV axle



12 Tighten the fasteners to the manufacturer's recommended torque



13 If the CV axle is inserted in the differential, drain the transmission fluid first

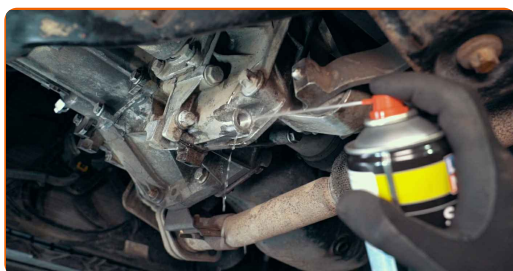


Please note!

- In manual gearboxes, the filler cap and drain plug usually look different from the fasteners
- The filler cap is located above the drain plug

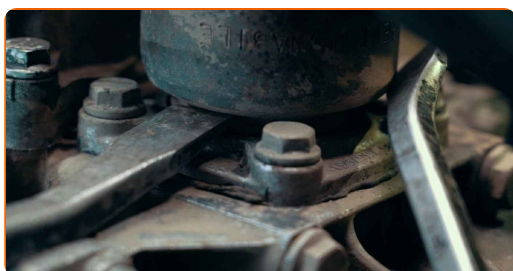
14

After draining the oil, clean the plug's mounting seat and screw it in



15

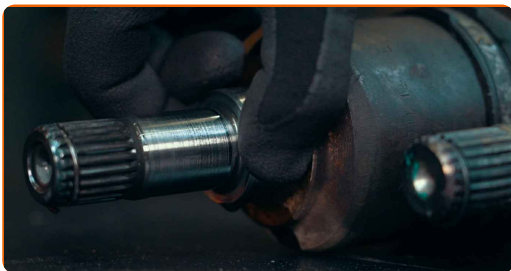
Use two crowbars to pry out the housing of the inner CV joint



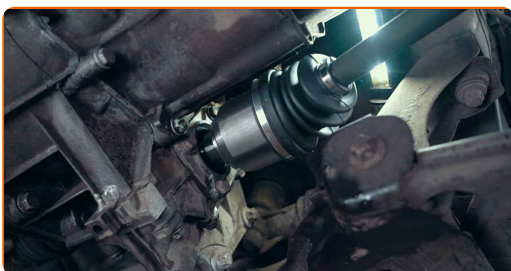
Important!

- The splined end of the shaft is held in place by the snap ring
- Be careful not to damage the gearbox oil seal

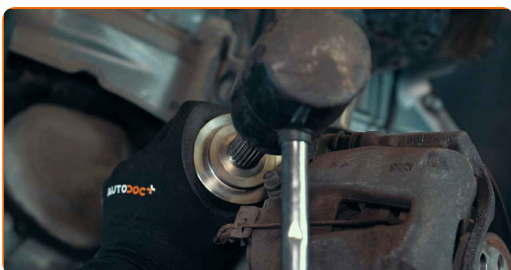
16 Lubricate the surface of the new shaft where it touches the oil seal



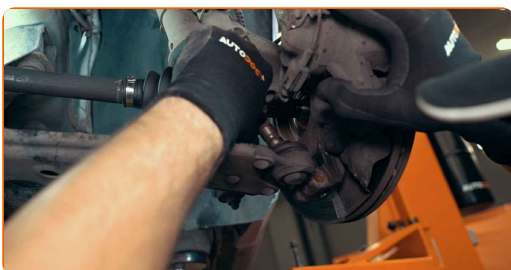
17 When installing the new CV axle, turn it slightly so that it fits into the splined mating part



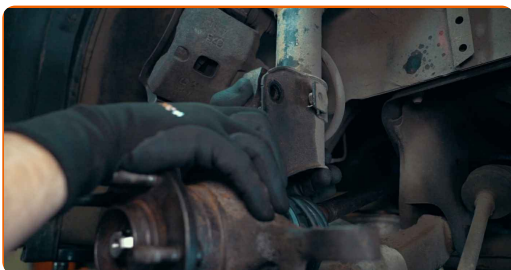
18 Make the CV axle snap into place by hitting the back end of it with a mallet



19 Clean all the mounting seats and secure the outer part of the CV axle

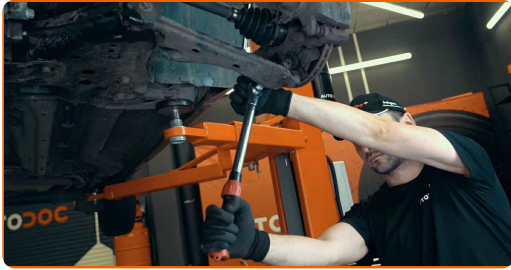


20 Reassemble all the components that were removed in reverse order



21

Tighten the fasteners to the manufacturer's recommended torque



22

Pour in new transmission fluid if it was drained before the replacement

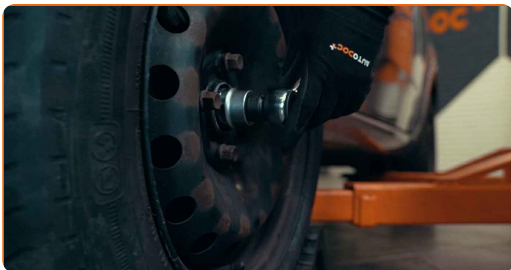


AUTODOC recommends:

- The vehicle must be level when carrying out this step
- If the car body is slanted, the fluid level cannot be assessed accurately
- For manual gearboxes, it is usually the lower edge of the filler opening that is used as the level mark

23

Tighten and secure the fastener that connects the CV axle to the wheel hub



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