



How to change front ball  
joint on **FORD Transit**  
**Custom V362 Minibus**  
**(F3)** – replacement guide

## SIMILAR VIDEO TUTORIAL



This video shows the replacement procedure of a similar car part on another vehicle

### **Important!**

This replacement procedure can be used for:

FORD Transit Custom V362 Minibus (F3) 2.2 TDCi, FORD Transit Custom V362 Minibus (F3) 2.0 EcoBlue

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The steps may slightly vary depending on the car design.

This tutorial was created based on the replacement procedure for a similar car part on: FORD Transit Mk6 Box (V347, V348, FA) 2.2 TDCi

## REPLACEMENT: BALL JOINT – FORD TRANSIT CUSTOM V362 MINIBUS (F3). TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- All-purpose cleaning spray
- Ceramic grease
- Torque wrench
- 8 mm socket
- 18 mm socket
- 19 mm socket
- 24 mm socket
- 36 mm socket
- T50 Torx bit
- 21 mm wheel impact socket
- Ratchet wrench or power tool for removal/installation of threaded fasteners
- Tommy bar
- Pin punch
- Hammer
- Rubber mallet
- Mounting lever
- Long nose pliers
- Telescoping magnetic pick-up tool
- Ball joint separator
- Circlip pliers
- Ball joint C-frame press kit
- Hydraulic press
- Transmission jack or a second vehicle jack
- Car lift or jack with jack stands, and wheel chocks

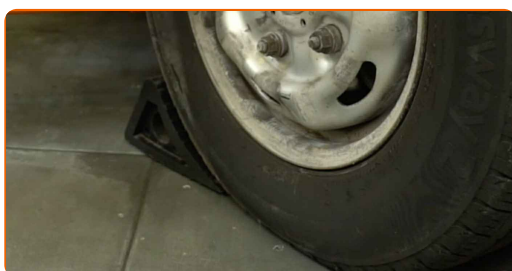
**Buy tools**

Replacement: ball joint – FORD Transit Custom V362 Minibus (F3). AUTODOC recommends:

- The replacement procedure is identical for the left and right ball joint.
- Please note: all work on the car – FORD Transit Custom V362 Minibus (F3) – should be done with the engine switched off.

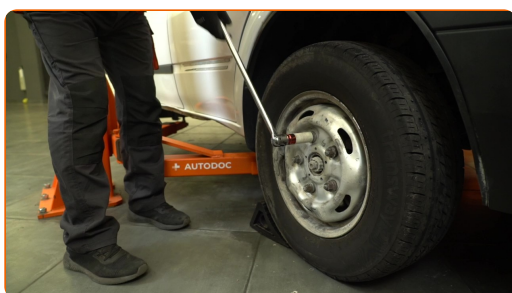
## CARRY OUT THE REPLACEMENT STEPS AS FOLLOWS:

1 Secure the wheels with chocks.



2 Remove the wheel centre cap.

3 Loosen the wheel nuts. Use a 21 mm wheel impact socket. Use a tommy bar.



4

Remove the cotter pin that secures the axle fastener. Use a mounting lever. Use long nose pliers.



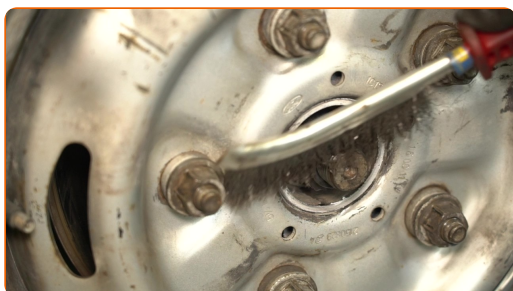
5

Remove the castle cover from the axle nut.



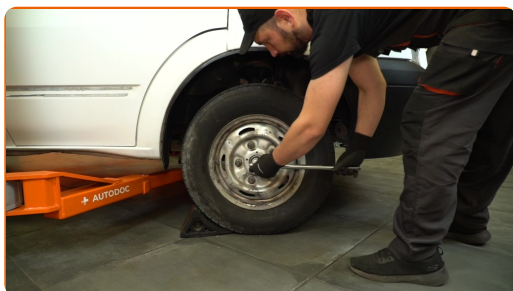
6

Clean the axle nut. Use a wire brush. Use WD-40 spray.



7

Loosen the axle nut. Use a 36 mm socket. Use a tommy bar.



8

Raise the vehicle.

Replacement: ball joint – FORD Transit Custom V362 Minibus (F3).  
Professionals recommend:

- If you are using a jack, make sure the car is parked on a hard, flat surface.
- Make sure to additionally secure the car with jack stands.

9

Unscrew the wheel nuts.



Caution!

- To avoid injury, hold up the wheel when unscrewing the nuts.

10

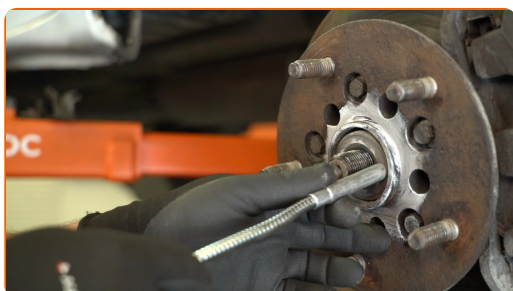
Remove the wheel.



- 11 Unscrew the axle nut. Use a 36 mm socket. Use a ratchet wrench.



- 12 Remove the axle washer. Use a telescoping magnetic pick-up tool.



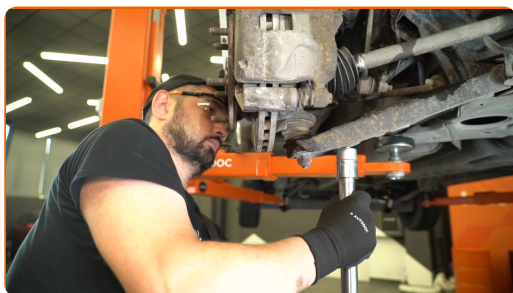
- 13 Jack up the suspension arm. Use a transmission jack or one more vehicle jack.



- 14 Detach the CV axle from the steering knuckle. Use a pin punch. Use a hammer.



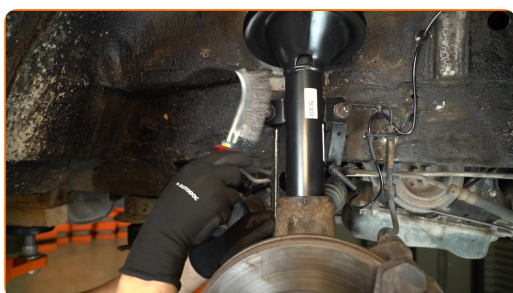
- 15 Remove the support from under the suspension arm.



Replacement: ball joint – FORD Transit Custom V362 Minibus (F3). AUTODOC experts recommend:

- Lower the transmission or vehicle jack smoothly without jerking it to avoid damaging the vehicle assemblies and mechanisms.

- 16 Clean the fastener connecting the anti-roll bar link to the suspension strut. Use a wire brush. Use WD-40 spray.



- 17 Unscrew the fastener connecting the anti-roll bar link to the suspension strut. Use a 19 mm socket. Use a ratchet wrench.



- 18 Disconnect the anti-roll bar link from the suspension strut.



- 19 Detach the ABS sensor wiring.



- 20 Clean the fastener connecting the tie rod end to the steering knuckle. Use a wire brush. Use WD-40 spray.



- 21 Unscrew the nut connecting the tie rod end to the steering knuckle. Use a 19 mm socket. Use a ratchet wrench.



22

Disconnect the tie rod end from the steering knuckle. Use a ball joint separator.



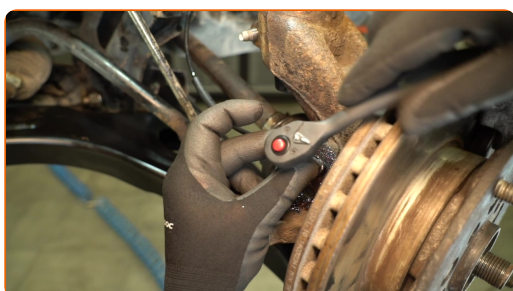
23

Clean the ABS sensor fastener. Use a wire brush. Use WD-40 spray.



24

Unscrew the ABS sensor fastener. Use an 8 mm socket. Use a ratchet wrench.



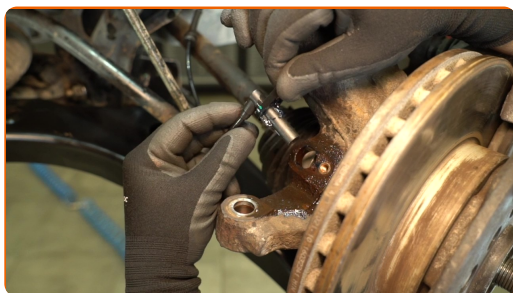
25

Remove the fastening bolt.



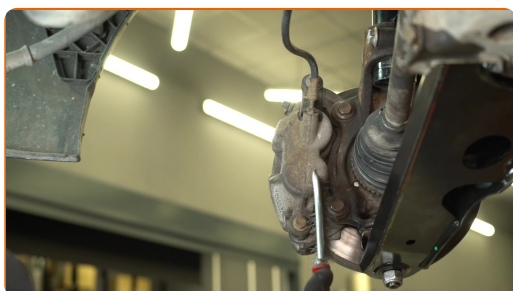
26

Remove the ABS sensor.



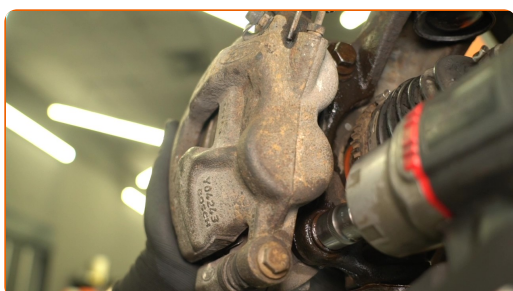
27

Clean the brake caliper bracket fasteners. Use a wire brush. Use WD-40 spray.



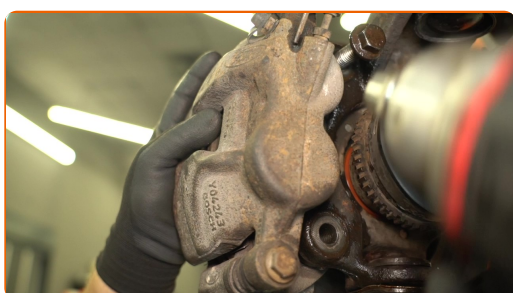
28

Unscrew the brake caliper bracket fasteners. Use an 18 mm socket. Use a tommy bar.



29

Remove the fastening bolts.



30

Remove the brake caliper together with its bracket.

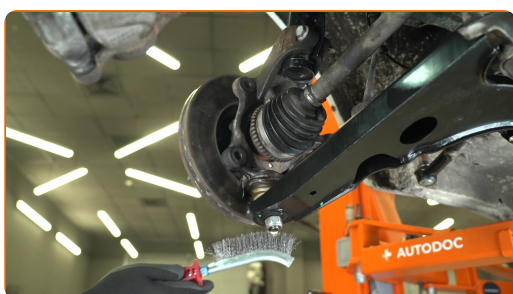


### AUTODOC expert recommendation:

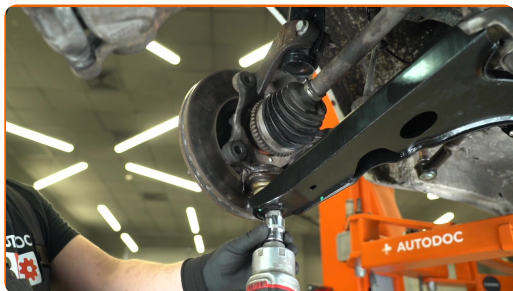
- Tie the caliper to the suspension or to the body with a wire without disconnecting it from the brake hose to avoid opening the brake line.
- Make sure that the brake caliper is not hanging from the brake hose.
- Do not press the brake pedal after the caliper has been removed. This may cause the piston to fall out of the caliper bore resulting in the brake fluid leakage and air entering the system.

31

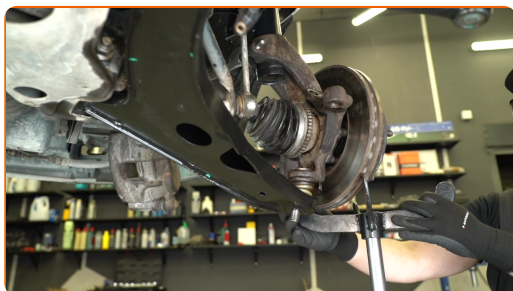
Clean the fastener connecting the ball joint to the suspension arm. Use a wire brush. Use WD-40 spray.



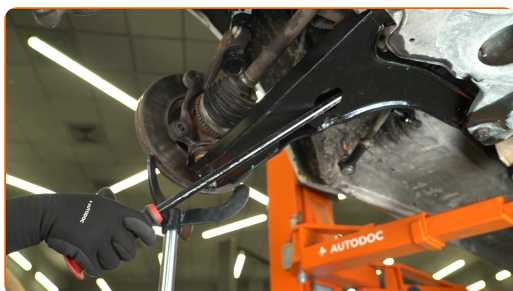
- 32 Unscrew the fastener connecting the ball joint to the suspension arm. Use a 24 mm socket. Use a ratchet wrench.



- 33 Support the steering knuckle. Use a transmission jack or one more vehicle jack.



- 34 Detach the suspension arm from the ball joint. Use a ball joint separator. Use a mounting lever.



- 35 Clean the lower fastener of the suspension strut that connects it to the steering knuckle. Use a wire brush. Use WD-40 spray.



36

Unscrew the lower fastener of the suspension strut. Use an 18 mm socket. Use a ratchet wrench.



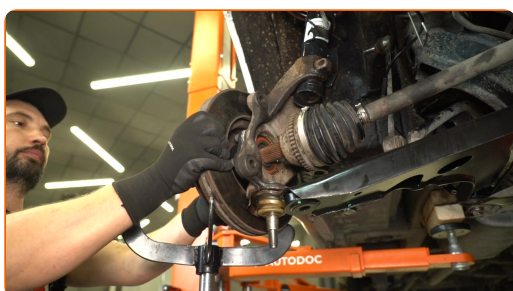
37

Remove the fastening bolt.



38

Remove the CV axle from the steering knuckle.



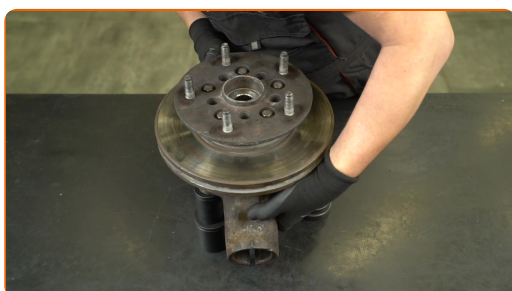
Replacement: ball joint – FORD Transit Custom V362 Minibus (F3). Tip:

- Make sure that the CV axle is not hanging down.

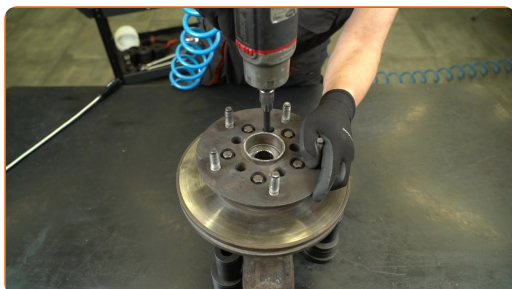
- 39** Disconnect the steering knuckle from the suspension strut. Use a rubber mallet. Use a transmission jack or one more vehicle jack.



- 40** Remove the steering knuckle together with the wheel hub.



- 41** Unscrew the wheel bearing fasteners. Use a T50 Torx bit. Use a ratchet wrench.



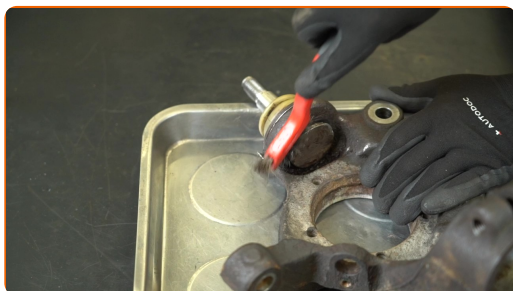
- 42** Remove the fastening bolts. Use a telescoping magnetic pick-up tool.



- 43 Remove the wheel hub together with the brake disc.



- 44 Clean the area where the ball joint is fastened to the steering knuckle. Use a wire brush. Use WD-40 spray.



- 45 Remove the circlip. Use circlip pliers.



- 46 Press the ball joint out of the steering knuckle. Use a ball joint C-frame press kit.



47

Clean the ball joint mounting seat. Use a wire brush. Use an all-purpose cleaning spray.



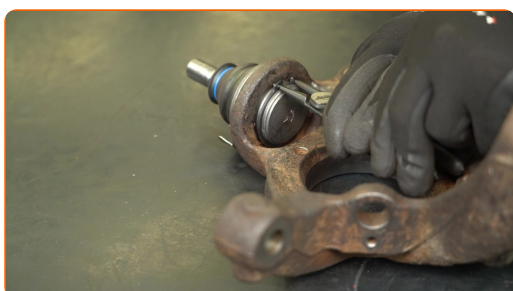
48

Press the new ball joint into the steering knuckle. Use a ball joint C-frame press kit.



49

Install the circlip. Use circlip pliers.



50

Clean the wheel hub mounting seat on the steering knuckle. Use a wire brush. Use an all-purpose cleaning spray.



51

Treat the mounting surface on the wheel bearing. Use ceramic grease.



52

Install the wheel hub together with brake disc.



53

Install the fastening bolts.



54

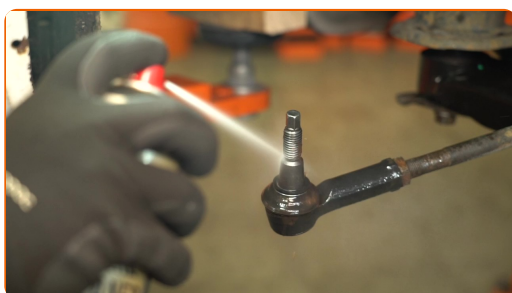
Screw in the wheel bearing fasteners. Use a T50 Torx bit. Use a ratchet wrench.



- 55** Clean the mating surfaces on the anti-roll bar link and the suspension strut. Use a wire brush. Use an all-purpose cleaning spray.



- 56** Clean the tie rod end mounting seat. Use a wire brush. Use an all-purpose cleaning spray.



- 57** Clean the ball joint mounting seat on the suspension arm. Use a wire brush. Use an all-purpose cleaning spray.



- 58** Clean the splines of the CV joint. Use a wire brush. Use an all-purpose cleaning spray.



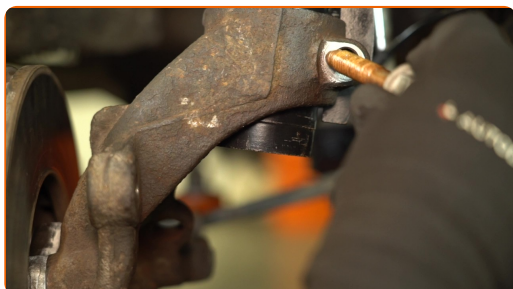
59

Install the steering knuckle assembled with the wheel hub. Use a transmission jack or one more vehicle jack.



60

Install the fastening bolt.



61

Screw in the bolt connecting the suspension strut to the steering knuckle. Use an 18 mm socket. Use a ratchet wrench.



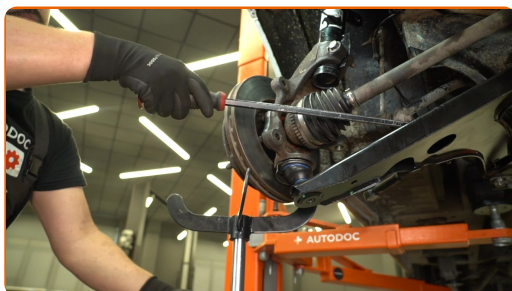
62

Install the CV axle.



63

Connect the suspension arm to the ball joint. Use a mounting lever.



64

Screw on and tighten the fastener that connects the suspension arm to the ball joint. Use a 24 mm socket. Use a torque wrench. Tightening torque: 150 N·m.



65

Install the ABS sensor.



Replacement: ball joint – FORD Transit Custom V362 Minibus (F3). Tip from AUTODOC experts:

- To prevent the sensor from sticking, apply some grease to its mounting seat before installing it.

66

Install the fastening bolt.



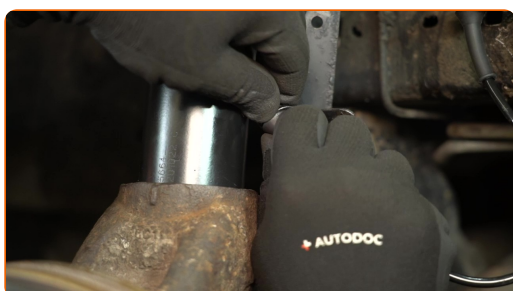
67

Screw in the ABS sensor fastener. Use an 8 mm socket. Use a ratchet wrench.



68

Secure the ABS sensor wiring.



69

Connect the tie rod end to the steering knuckle.



70

Screw on and tighten the nut connecting the tie rod end to the steering knuckle. Use a 19 mm socket. Use a torque wrench. Tightening torque: 80 N·m.



71

Install the brake caliper together with its bracket.



72

Install the fastening bolts.



73

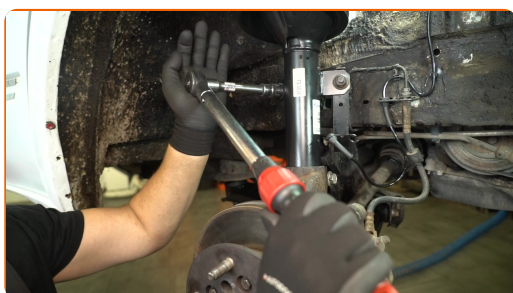
Screw in and tighten the fasteners of the brake caliper bracket. Use an 18 mm socket. Use a torque wrench. Tightening torque: 175 N·m.



- 74 Install the anti-roll bar link and screw on the fastening nut.



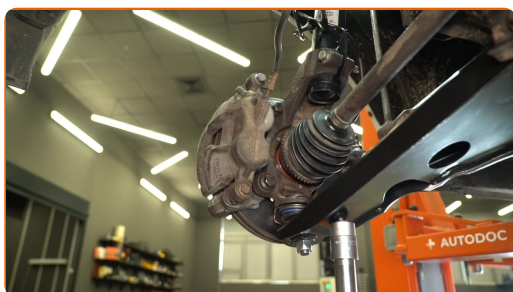
- 75 Tighten the fastener connecting the anti-roll bar link to the suspension strut. Use a 19 mm socket. Use a torque wrench. Tightening torque: 55 N·m.



- 76 Tighten the ABS sensor fastener. Use an 8 mm socket. Use a torque wrench. Tightening torque: 11 N·m.



- 77 Jack up the suspension arm. Use a transmission jack or one more vehicle jack.



78

Tighten the lower fastener of the suspension strut. Use an 18 mm socket. Use a torque wrench. Tightening torque: 100 N·m + 180°.

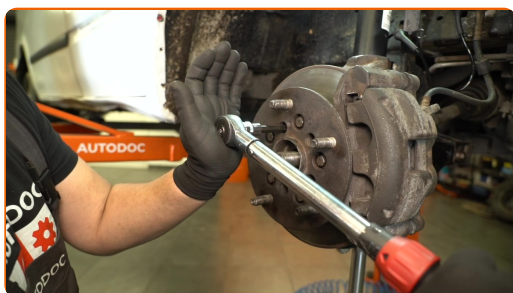


### Important!

- Make sure to use new fasteners.

79

Tighten the wheel bearing fasteners. Use a T50 Torx bit. Use a torque wrench. Tightening torque: 53 N·m.



80

When reassembling, use a new axle nut kit: a washer, a nut, a castle cover, and a cotter pin.

81

Install the axle washer.



82

Screw on the axle nut. Use a 36 mm socket. Use a ratchet wrench.



83

Clean the wheel rim mounting seat. Use a wire brush. Use an all-purpose cleaning spray.



84

Treat the wheel hub surface that contacts the wheel rim. Use ceramic grease.



85

Install the wheel.



## Replacement: ball joint – FORD Transit Custom V362 Minibus (F3). AUTODOC recommends:

- To avoid injury, hold up the wheel when screwing on the fastening nuts.

86

Screw on the wheel nuts. Use a 21 mm wheel impact socket. Use a ratchet wrench.



87

Lower the car and tighten the wheel nuts in a criss-cross pattern. Use a 21 mm wheel impact socket. Use a torque wrench. Tightening torque: 200 N·m.



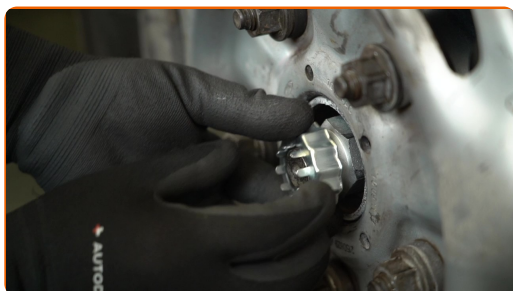
88

Tighten the axle nut. Use a 36 mm socket. Use a torque wrench. Tightening torque: 320 N·m.



89

Install the castle cover on the axle nut.



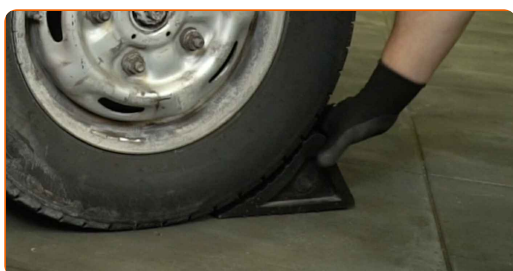
90

Install the cotter pin. Use a mounting lever.



91

Remove the jack, jack stands, and wheel chocks.



**WELL DONE!** 👍

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