



How to change front  
wheel bearing on  
**VAUXHALL Vivaro**  
**Platform / Chassis (X83)**  
– replacement guide

## SIMILAR VIDEO TUTORIAL



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

### Important!

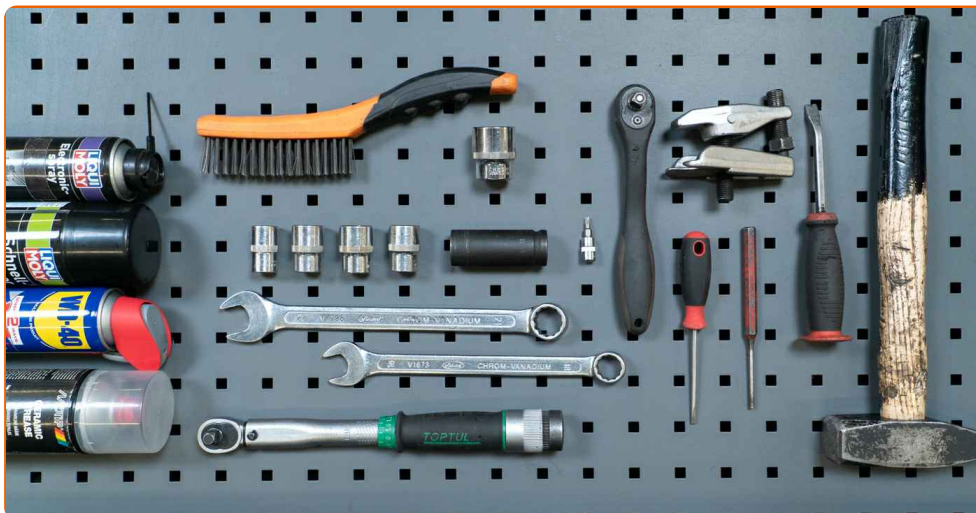
This replacement procedure can be used for:

VAUXHALL Vivaro Platform / Chassis (X83) 2.0 16V, VAUXHALL Vivaro Platform / Chassis (X83) 2.5 CDTI

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: OPEL Vivaro A Combi (X83) 2.5 CDTI (F7, J7, A07)

## REPLACEMENT: WHEEL BEARING – VAUXHALL VIVARO PLATFORM / CHASSIS (X83). TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- All-purpose cleaning spray
- Electronic spray
- Ceramic grease
- Torque wrench
- 18 mm combination spanner
- 21 mm combination spanner
- 16 mm socket
- 18 mm socket
- 19 mm socket
- 21 mm socket
- 32 mm socket
- T40 Torx bit
- 19 mm wheel impact socket
- Ratchet wrench or power tool for removal/installation of threaded fasteners
- Tommy bar
- Hydraulic press
- Bush and bearing driver set
- Bearing separator
- Ball joint separator
- Transmission jack or a second vehicle jack
- Slotted screwdriver
- Pin punch
- Hammer
- Car lift or jack with jack stands, and wheel chocks

[Buy tools](#)

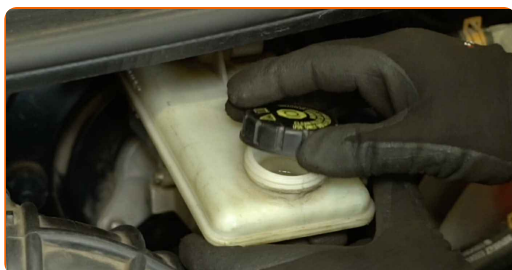
## Replacement: wheel bearing – VAUXHALL Vivaro Platform / Chassis (X83). AUTODOC recommends:

- Do not reuse the bearing removed from your VAUXHALL Vivaro Platform / Chassis (X83) car.
- The wheel bearing replacement procedure is identical for both wheels on the same axle.
- All the work should be carried out with the engine switched off.

## REPLACEMENT: WHEEL BEARING – VAUXHALL VIVARO PLATFORM / CHASSIS (X83). USE THE FOLLOWING PROCEDURE:

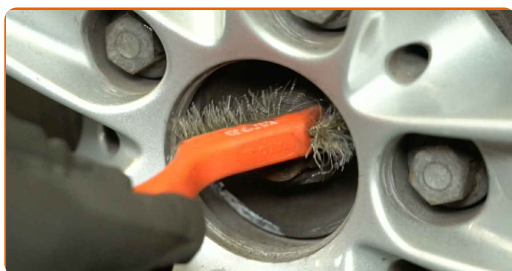
1 Open the bonnet.

2 Loosen the brake fluid reservoir cap.



3 Secure the wheels with chocks.

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



5 Loosen the axle nut. Use a 32 mm socket. Use a tommy bar.



6 Loosen the wheel fasteners. Use a 19 mm wheel impact socket. Use a tommy bar.



7 Raise the vehicle.

Replacement: wheel bearing – VAUXHALL Vivaro Platform / Chassis (X83).  
Tip from AUTODOC experts:

- 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.

8 Unscrew the wheel fasteners.



### Caution!

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

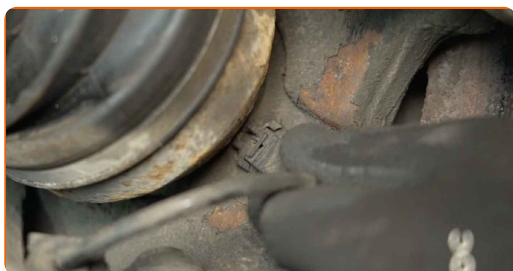
9

Remove the wheel.



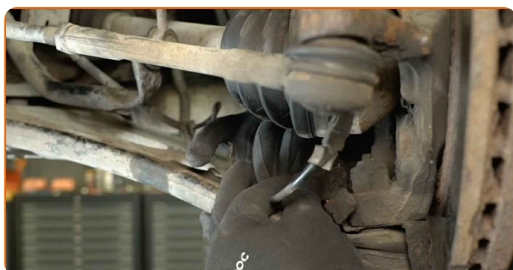
10

Remove the ABS sensor.



11

Detach the ABS sensor wiring.

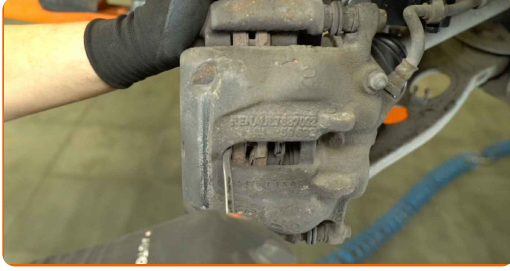


12

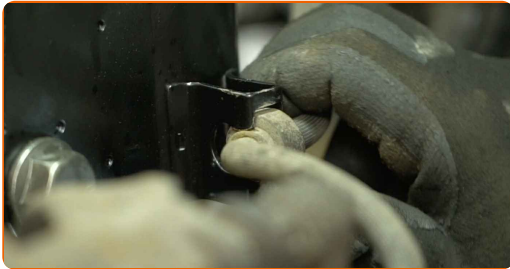
Unscrew the axle nut. Use a 32 mm socket. Use a ratchet wrench.



- 13** Spread the brake pads apart. Use a mounting lever.



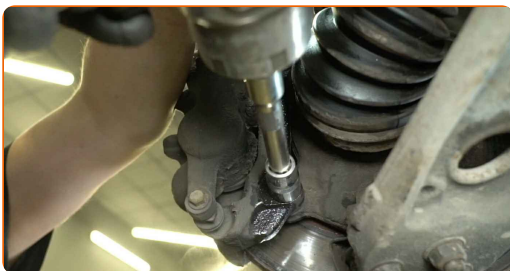
- 14** Detach the brake hose from the suspension strut.



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



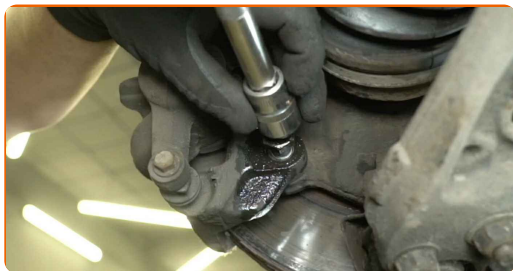
- 16** Unscrew the brake caliper bracket fasteners. Use an 18 mm socket. Use a tommy bar.





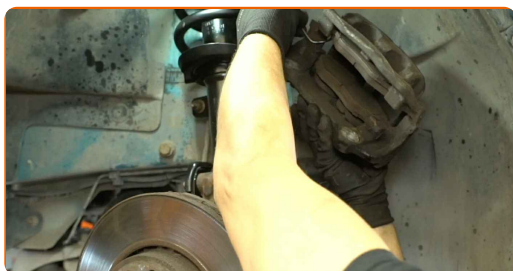
17

Remove the fastening bolts.



18

Remove the brake caliper together with its bracket.



Replacement: wheel bearing – VAUXHALL Vivaro Platform / Chassis (X83).  
Professionals recommend:

- 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.



19

Clean the brake disc screw. Use a wire brush. Use WD-40 spray.



20

Unscrew the brake disc screw. Use a T40 Torx bit. Use a ratchet wrench.



21

Remove the screw.



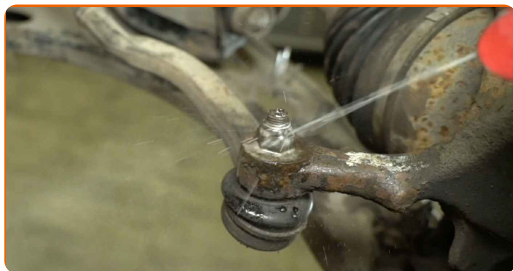
22

Remove the brake disc.



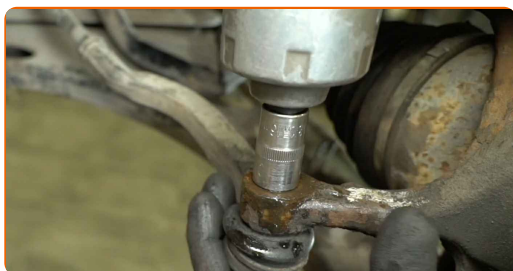
23

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



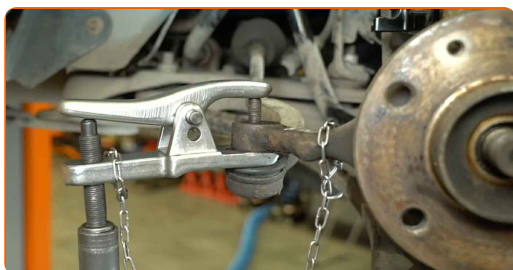
24

Unscrew the nut connecting the tie rod end to the steering knuckle. Use a 16 mm socket. Use a ratchet wrench.



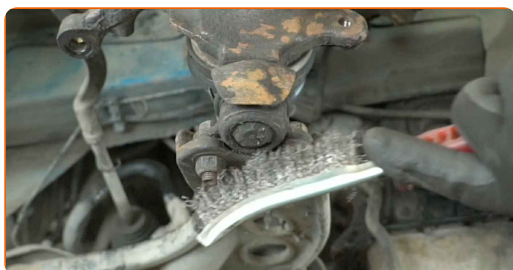
25

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

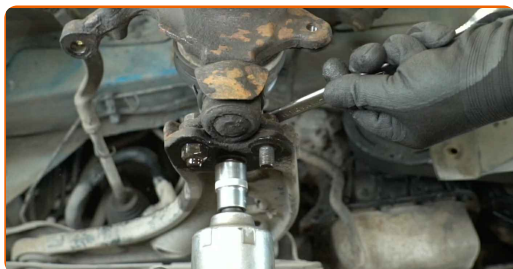


26

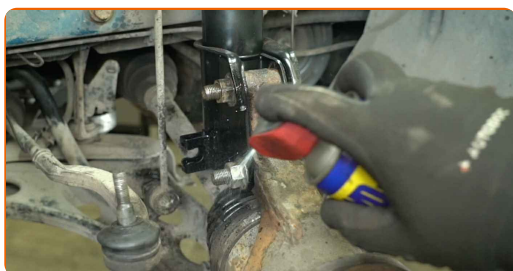
Clean the fasteners that connect the ball joint to the control arm. Use a wire brush. Use WD-40 spray.



- 27 Unscrew the fasteners that connect the ball joint to the control arm. Use an 18 mm combination spanner. Use a 19 mm socket. Use a ratchet wrench.



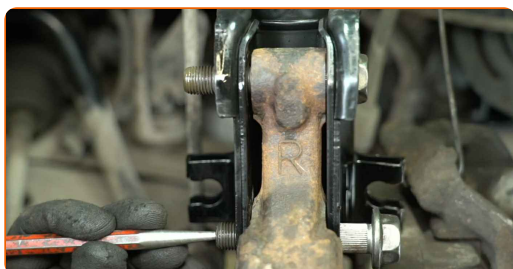
- 28 Clean the fasteners that connect the suspension strut to the steering knuckle. Use a wire brush. Use WD-40 spray.



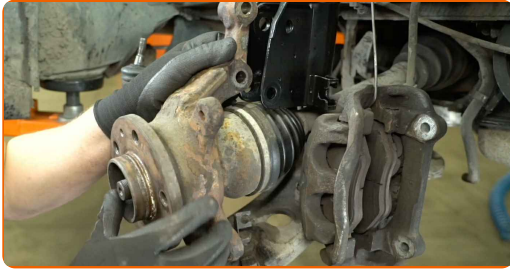
- 29 Unscrew the fasteners that connect the suspension strut to the steering knuckle. Use a 21 mm combination spanner. Use a 21 mm socket. Use a ratchet wrench.



- 30 Remove the fastening bolts. Use a pin punch. Use a hammer.



31 Detach the steering knuckle from the suspension arm.



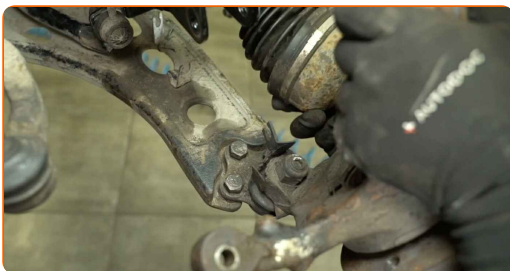
32 Detach the CV axle from the steering knuckle.



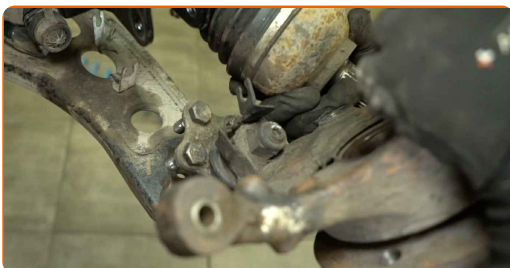
Replacement: wheel bearing – VAUXHALL Vivaro Platform / Chassis (X83).  
AUTODOC recommends:

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

33 Detach the ball joint from the control arm.

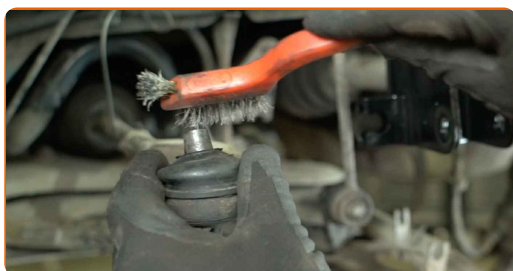


34 Remove the steering knuckle together with the wheel hub.



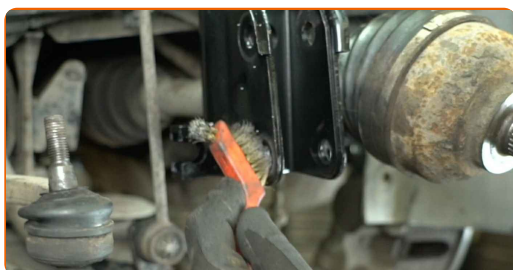
**35**

Clean the fastener connecting the tie rod end to the steering knuckle. Use a wire brush. Use an all-purpose cleaning spray.



**36**

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



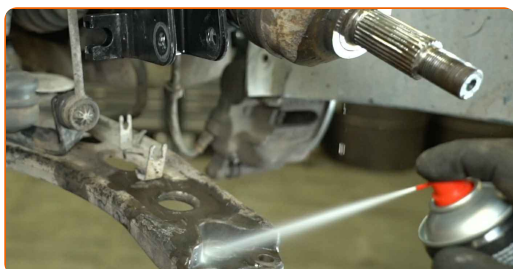
**37**

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



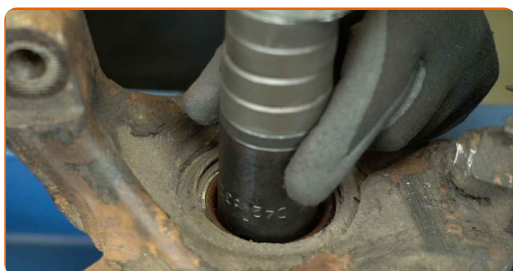
**38**

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





- 39 Press the hub out of the steering knuckle together with the inner race of the bearing. Use a bush and bearing driver set and a hydraulic press.



- 40 Press the outer bearing race together with the bearing's internals and the ABS sensor bracket out of the steering knuckle. Use a bush and bearing driver set and a hydraulic press.



- 41 Press the hub out of the inner race of the bearing. Use a bush and bearing driver set. Use a bearing separator and a hydraulic press.



- 42 Clean the steering knuckle. Use a wire brush. Use an all-purpose cleaning spray.



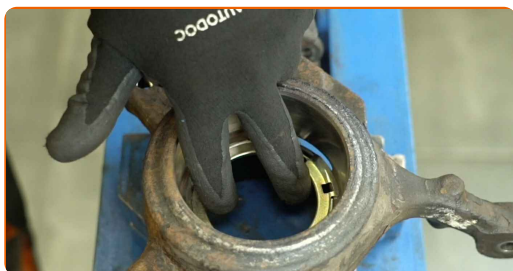
43

Clean the wheel hub. Use a wire brush. Use an all-purpose cleaning spray.



44

Install a new ABS sensor bracket into the steering knuckle.



Replacement: wheel bearing – VAUXHALL Vivaro Platform / Chassis (X83).  
Tip:

- Check to make sure the bracket is positioned correctly.

45

Press the new bearing into the steering knuckle. Use a bush and bearing driver set and a hydraulic press.





### AUTODOC recommendation:

- When pressing on the wheel bearing, check to make sure it is positioned correctly. Avoid any misalignment.
- When pressing the wheel bearing in, make sure to press only on the outer race of the bearing.

46

Press the wheel hub into the inner race of the bearing installed in the steering knuckle. Use a bush and bearing driver set and a hydraulic press.



### Replacement: wheel bearing – VAUXHALL Vivaro Platform / Chassis (X83). Tip from AUTODOC:

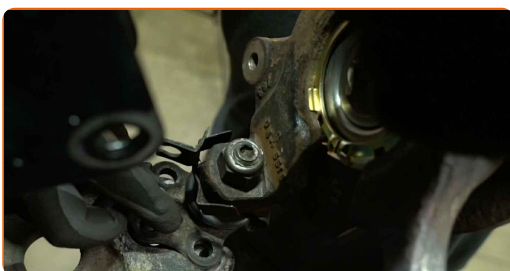
- When pressing the wheel hub in, check to make sure it is positioned correctly. Avoid any misalignment.
- When pressing the wheel hub in, make sure to press only on the inner race of the bearing.

47

Install the steering knuckle assembled with the wheel hub.

48

Attach the ball joint to the control arm.



**49**

Insert the CV axle into the steering knuckle.

**50**

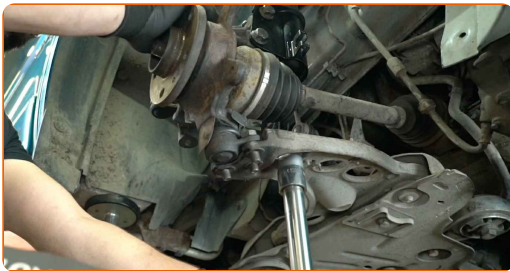
Attach the steering knuckle to the suspension strut.

**51**

Install the fastening bolts.

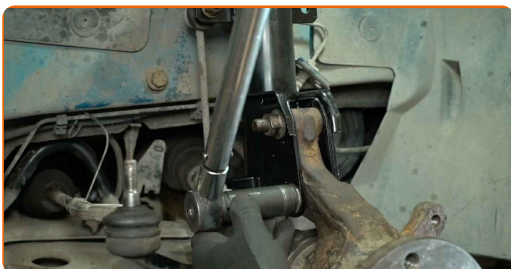
**52**

Jack up the steering knuckle. Use a transmission jack or one more vehicle jack.



53

Tighten the fasteners that connect the suspension strut to the steering knuckle. Use a 21 mm combination spanner. Use a 21 mm socket. Use a torque wrench. Tightening torque: 180 N·m.



54

Tighten the fasteners that connect the ball joint to the control arm. Use an 18 mm combination spanner. Use a 19 mm socket. Use a torque wrench. Tightening torque: 85 N·m.



55

Remove the support from under the steering knuckle.



Replacement: wheel bearing – VAUXHALL Vivaro Platform / Chassis (X83).  
AUTODOC recommends:

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

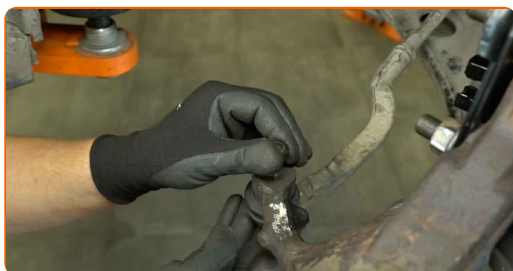
56

Screw on the axle nut. Use a 32 mm socket. Use a ratchet wrench.



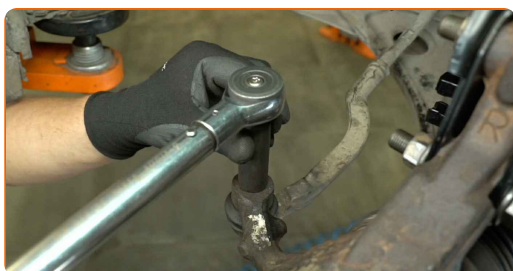
57

Connect the tie rod end to the steering knuckle.



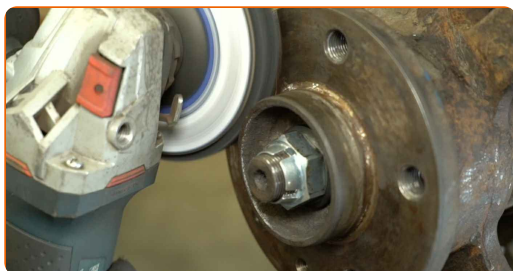
58

Tighten the nut connecting the tie rod end to the steering knuckle. Use a 16 mm socket. Use a torque wrench. Tightening torque: 37 N·m.



59

Clean the mounting seat of the brake disc. Use a wire brush. Use an all-purpose cleaning spray.



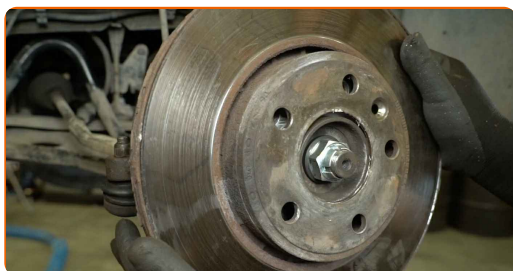
60

Treat the surface of the wheel hub that contacts the brake disc. Use ceramic grease.



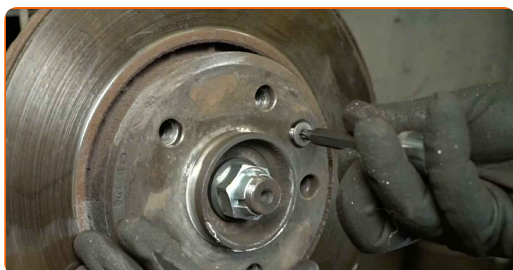
61

Install the brake disc.



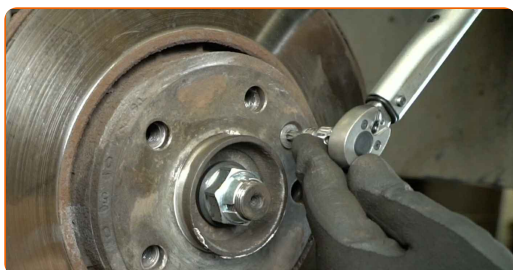
62

Install the brake disc screw.



63

Tighten the brake disc screw. Use a T40 Torx bit. Use a torque wrench. Tightening torque: 14 N·m.



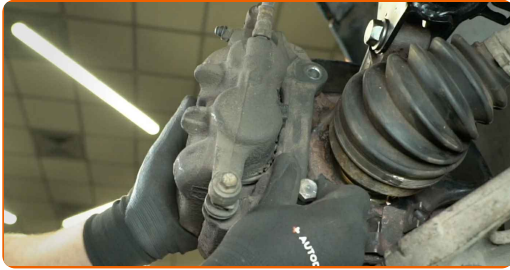
64

Install the brake caliper together with its bracket.

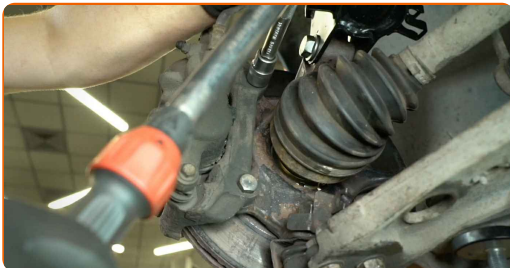




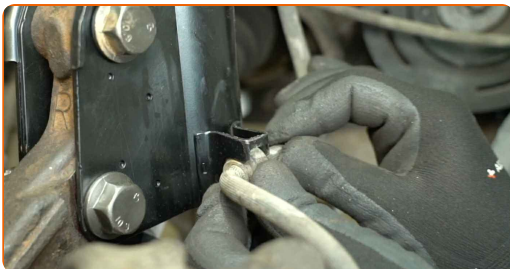
**65** Install the fastening bolts.



**66** Tighten the fasteners of the brake caliper bracket. Use an 18 mm socket. Use a torque wrench. Tightening torque: 100 N·m.



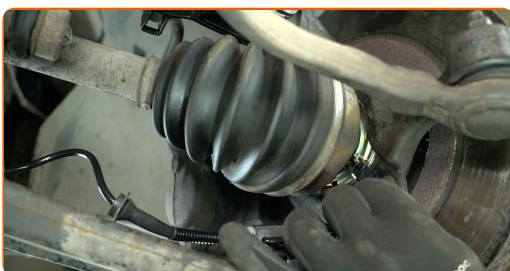
**67** Secure the brake hose to the suspension strut.



**68** Secure the ABS sensor wiring.



**69** Install the ABS sensor.



70

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



71

Treat the brake disc surface that contacts the wheel rim. Use ceramic grease.



72

Install the wheel.



Replacement: wheel bearing – VAUXHALL Vivaro Platform / Chassis (X83).

Tip:

- To avoid injury, hold up the wheel when screwing in the fasteners.



73

Screw in the wheel fasteners. Use a 19 mm wheel impact socket. Use a ratchet wrench.



74

Lower the car and tighten the wheel fasteners in a criss-cross pattern. Use a 19 mm wheel impact socket. Use a torque wrench. Tightening torque: 142 N·m.



75

Tighten the axle nut. Use a 32 mm socket. Use a torque wrench. Tightening torque: 280 N·m.



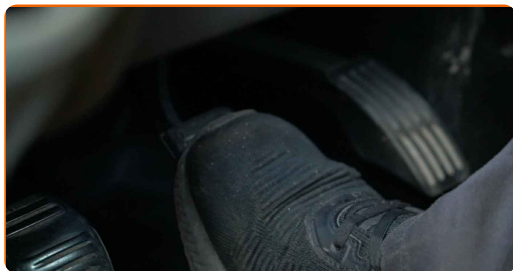
76

Remove the jack, jack stands, and wheel chocks.



77

Without starting the engine, press the brake pedal several times until you feel significant resistance.



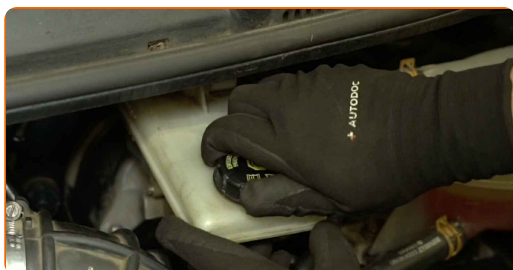
78

Check the brake fluid level in the reservoir and top up if necessary.



79

Tighten the brake fluid reservoir cap.



80

Close the bonnet.

**WELL DONE!** 

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