



How to change front
wheel bearing on **VW**
Polo Variant (6V5) –
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:

VW Polo Variant (6V5) 1.8, VW Polo Variant (6V5) 1.4, VW Polo Variant (6V5) 1.6, VW Polo Variant (6V5) 1.9 TDI, VW Polo Variant (6V5) 1.7 SDI, VW Polo Variant (6V5) 1.9 SDI, VW Polo Variant (6V5) 1.4 16V

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: VW GOLF III (1H1) 1.9 D

REPLACEMENT: WHEEL BEARING – VW POLO VARIANT (6V5). TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- All-purpose cleaning spray
- Brake cleaner
- Copper grease
- Torque wrench
- Combination spanner #10
- Combination spanner #18
- Drive socket # 13
- Drive socket # 18
- Drive socket # 19
- Drive socket # 30
- Torx bit T30
- HEX bit No.H7.
- Wheel impact socket #17
- Bush and bearing driver set
- Ratchet wrench
- Tap wrench
- Flat Screwdriver
- Crow bar
- Vice
- Circlip pliers
- Bearing separator
- Ball joint puller
- Wheel chock

Buy tools

Replacement: wheel bearing – VW Polo Variant (6V5). AUTODOC recommends:

- Do not re-use the bearing assembly of your VW Polo Variant (6V5) car.
- The wheel hub bearing replacement procedure is identical for both wheels on the same axle.
- Warning! Shut down the engine before starting any work – VW Polo Variant (6V5)

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1 Secure the wheels with chocks.

2 Clean the fastener of the driveshaft. Use a wire brush. Use WD-40 spray.



3 Loosen the fastener of the driveshaft. Use a drive socket #30. Use a tap wrench.



4

Loosen the wheel mounting bolts. Use wheel impact socket #17.



5

Raise the front of the car and secure on supports.

6

Unscrew the wheel bolts.



Replacement: wheel bearing – VW Polo Variant (6V5). Tip:

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

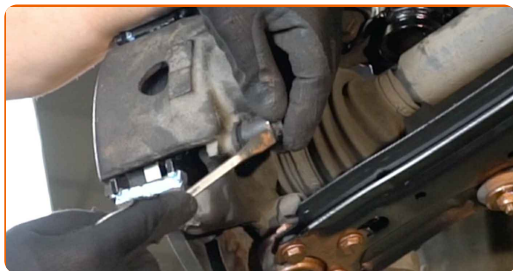
7

Remove the wheel.



8

Remove the dust boot caps of the brake caliper guide pins. Use a crowbar.

**9**

Unscrew the brake caliper fastening. Use HEX No.H7. Use a ratchet wrench.

**10**

Spread the brake pads. Use a crowbar.

**11**

Remove the brake caliper.

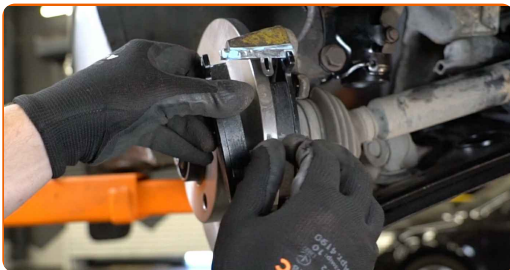


Replacement: wheel bearing – VW Polo Variant (6V5). Professionals recommend:

- Tie the caliper to the suspension or to the body with a wire without disconnecting from the brake hose to prevent depressurization of the brake system.
- Make sure that the brake caliper is not hanging on the brake hose.
- Don't press the brake pedal after the brake caliper has been removed. As a result, the piston can fall out from the brake cylinder, and brake fluid leakage and depressurization of the system may occur.
- Check the brake caliper bracket, brake caliper guide pins and boots. Clean them. Replace, if necessary.

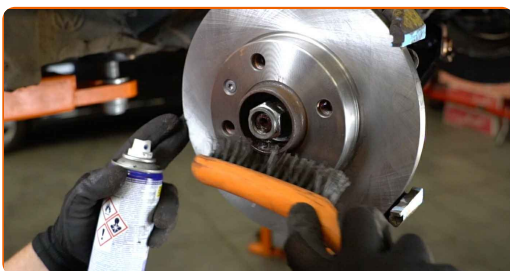
12

Remove the brake pads. Use a crowbar.

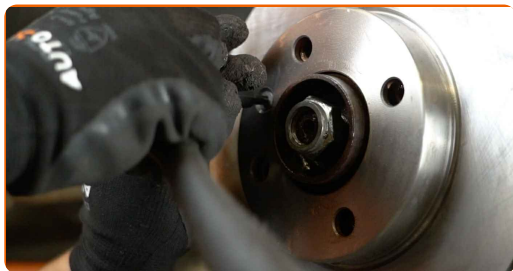


13

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



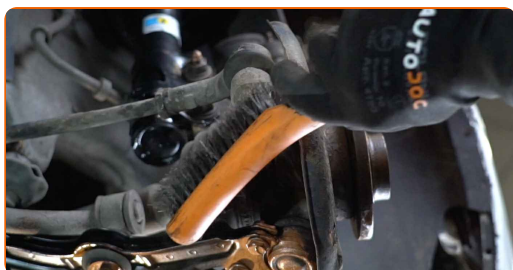
14 Unscrew the brake disc fastening. Use Torx T30. Use a ratchet wrench.



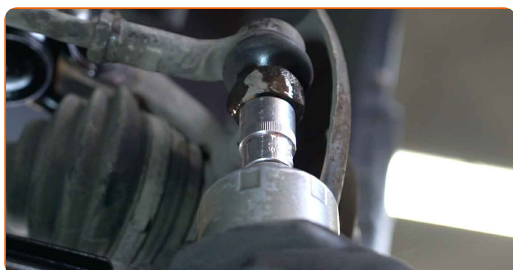
15 Remove the brake disc.



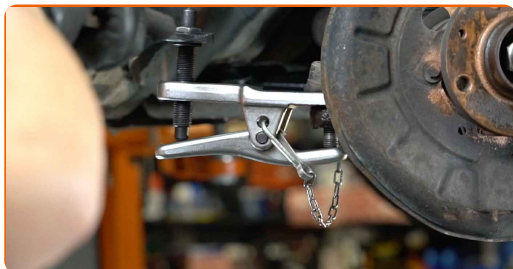
16 Clean the fastener connecting the tie rod end to the steering knuckle. Use a wire brush. Use WD-40 spray.



17 Unscrew the end fastening nut to the steering knuckle. Use a drive socket #19. Use a ratchet wrench.



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

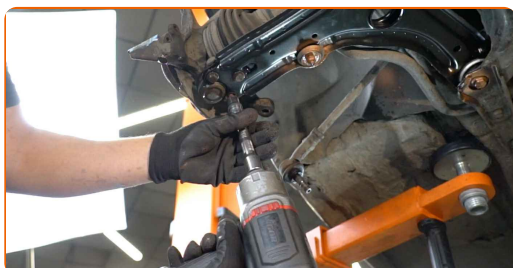


19 Clean all joints of the arm. Use a wire brush. Use WD-40 spray.

AUTODOC recommends:

- Replacement: wheel bearing – VW Polo Variant (6V5). After applying the spray, wait a few minutes.
- Wear protective goggles.

20 Unscrew the fasteners connecting the ball joint to the control arm. Use a drive socket #13. Use a ratchet wrench.



21 Remove the fastening nut.



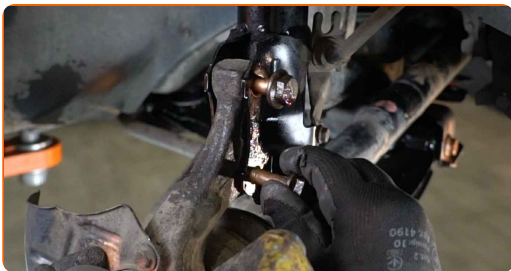
22 Clean the fasteners connecting the shock strut to the steering knuckle. Use a wire brush. Use WD-40 spray.



23 Unscrew the fasteners connecting the suspension strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #18. Use a ratchet wrench.



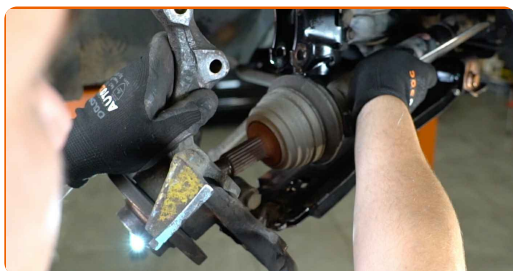
24 Remove the fastening bolts.



25 Disconnect the steering knuckle from the shock absorber strut.



26 Remove the drive shaft.



Replacement: wheel bearing – VW Polo Variant (6V5). Tip from AUTODOC experts:

- Make sure that the drive shaft is not unloaded (when the car is jacked).

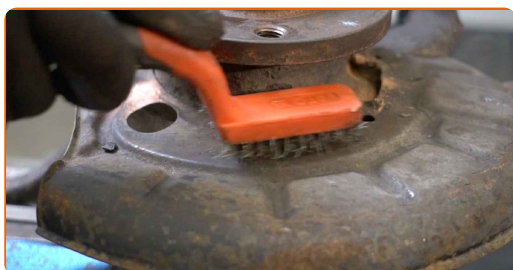
27 Remove the steering knuckle together with the hub.



28 Place the steering knuckle assembled with the wheel hub in a vice.



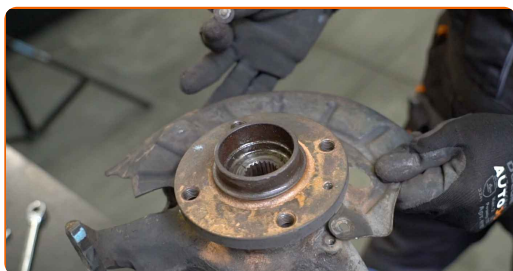
29 Clean the fasteners of the brake disc cover. Use a wire brush. Use WD-40 spray.



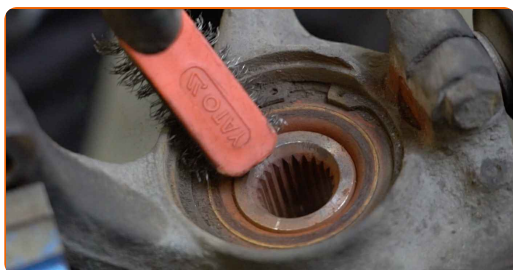
30 Unscrew the fasteners of the brake disc cover. Use a combination spanner #10.



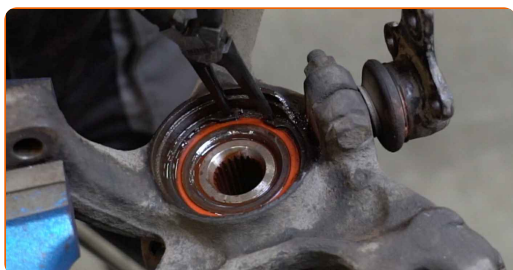
31 Remove the brake disc cover.



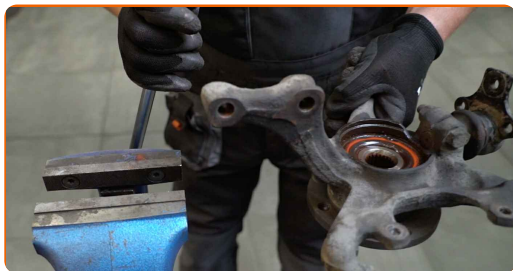
32 Clean the wheel hub bearing retaining ring. Use a wire brush. Use WD-40 spray.



33 Remove the wheel hub bearing retaining ring. Use circlip pliers.



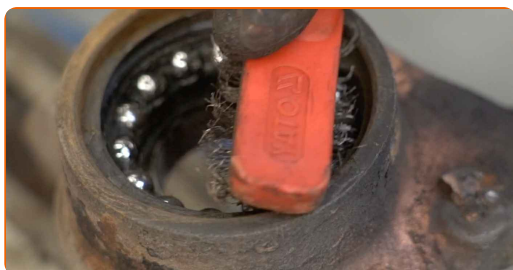
34 Release the vice and remove the steering knuckle assembled with the wheel hub.



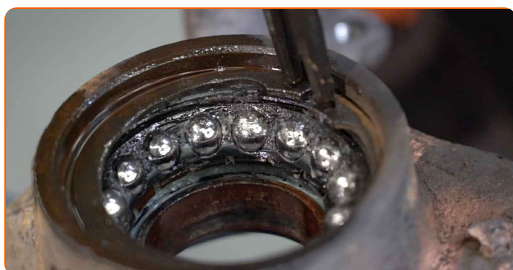
35 Remove the wheel hub from the steering knuckle. Use a bush and bearing driver set.



36 Clean the wheel hub bearing retaining ring. Use a wire brush. Use WD-40 spray.



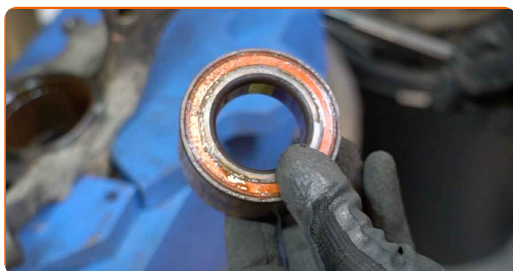
37 Remove the wheel hub bearing retaining ring. Use circlip pliers.



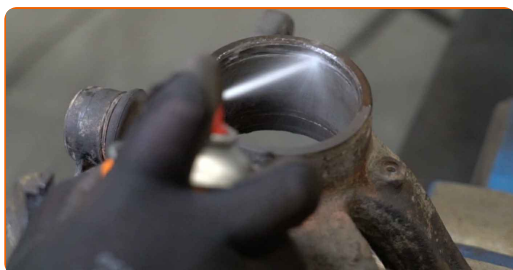
38 Press out the wheel hub bearing. Use a bush and bearing driver set.



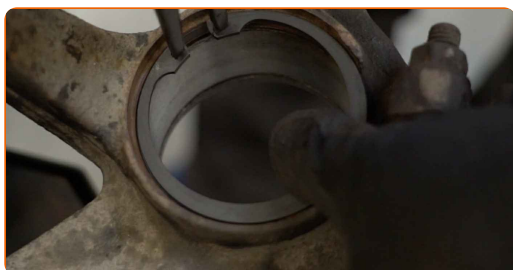
39 Pull the bearing inner race out of the wheel hub. Use a bush and bearing driver set. Use a bearing separator.



40 Clean the hub bearing mounting seat. Use a wire brush. Use WD-40 spray.



41 Install the wheel hub bearing retaining ring. Use circlip pliers.



42

Press the new bearing in the steering knuckle. Use a bush and bearing driver set.



Replacement: wheel bearing – VW Polo Variant (6V5). AUTODOC experts recommend:

- Check to make sure the wheel hub bearing is positioned correctly. Avoid its misalignment.
- Stop pressing on the surface of the bearing immediately after it has been fitted into its mounting seat.

43

Install the wheel hub bearing retaining ring. Use circlip pliers.



44

Clean the wheel hub mounting seat. Use WD-40 spray.



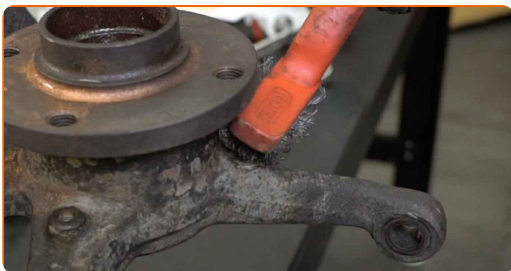
45 Install the wheel hub on the steering knuckle. Use a bush and bearing driver set.



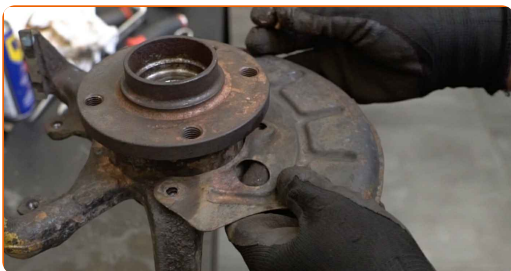
46 Place the steering knuckle assembled with the wheel hub in a vice.



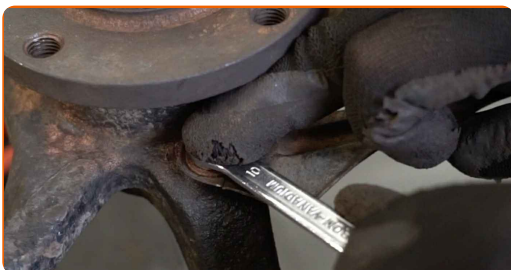
47 Clean the mounting seat of the brake disc cover. Use a wire brush. Use WD-40 spray.



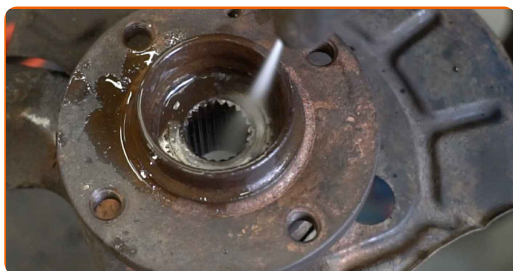
48 Install the brake disc cover.



49 Screw in the fasteners of the brake disc cover. Use a combination spanner #10.



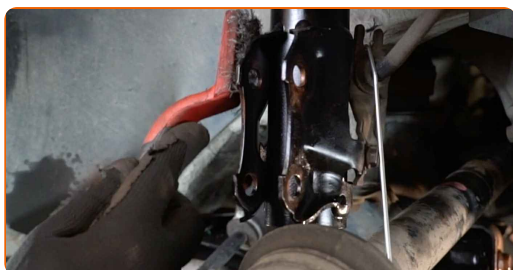
50 Treat the hub where it contacts the brake disk. Use all-purpose cleaning spray.



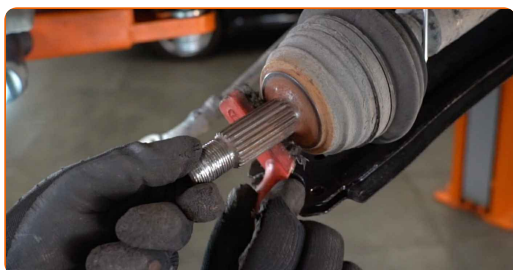
51 Release the vice and remove the steering knuckle assembled with the wheel hub.



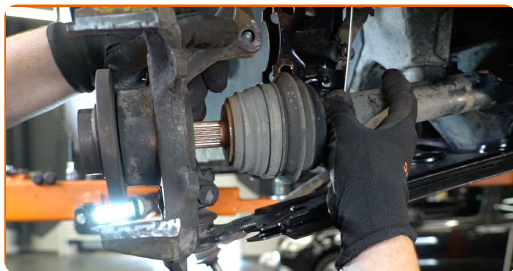
52 Treat the shock strut mounting seat on the steering knuckle. Use a wire brush. Use WD-40 spray.



53 Treat the splines of the driveshaft CV joint. Use a wire brush. Use WD-40 spray.



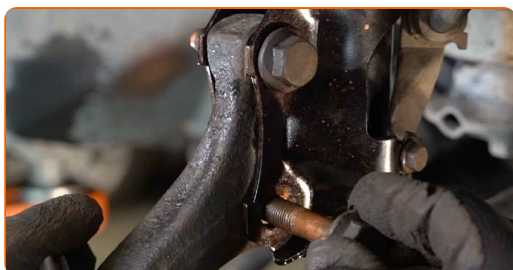
54 Install the drive shaft.



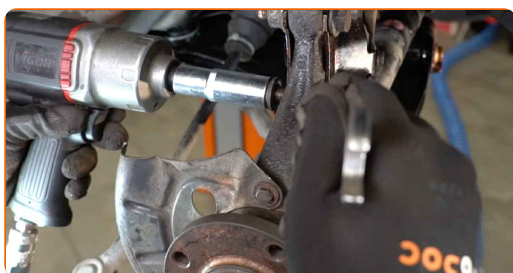
55 Fix the shock absorber strut on the steering knuckle.



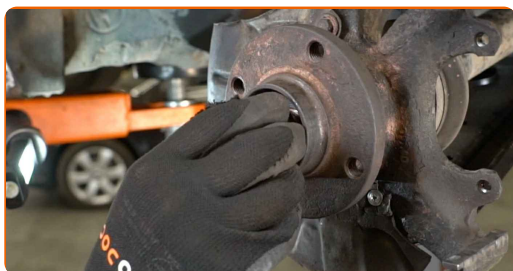
56 Install the fastening bolts.



57 Screw in the fasteners connecting the suspension strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #18. Use a tap wrench.



58 Install the fastening nut.



59

Screw the fasteners of the ball joint. Use a drive socket #13. Use a ratchet wrench.



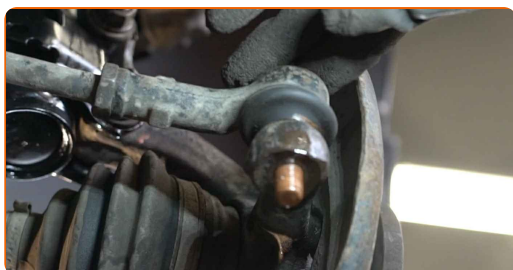
60

Clean the mounting seats of the tie rod end. Use a wire brush. Use WD-40 spray.



61

Connect the tie rod end to the steering knuckle.



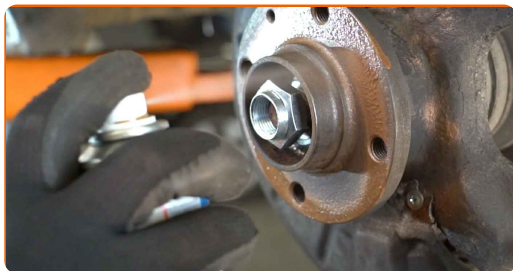
62

Screw on the fastening nut that connects the tie rod end to the steering knuckle. Use a drive socket #19. Use a ratchet wrench.



63

Clean the hub. Use a wire brush. Treat the contacting surface. Use copper grease.



64

Install the brake disc.



65

Tighten the brake disc fastening. Use Torx T30. Use a torque wrench. Tighten it to 4 Nm torque.



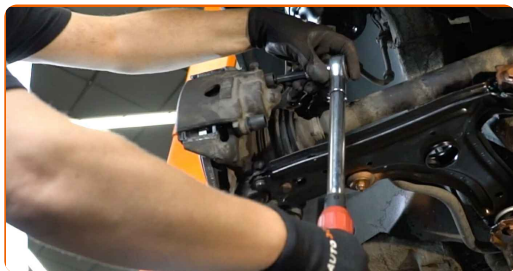
66

Install the brake pads.



67

Install the brake caliper and fix it. Use HEX No.H7. Use a torque wrench. Tighten it to 25 Nm torque.



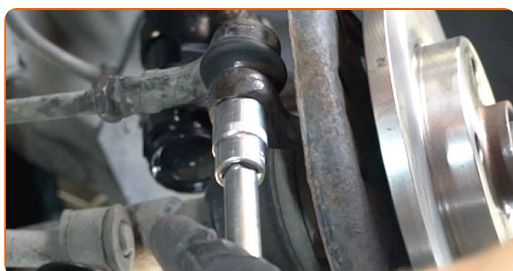
68

Install the dust boot caps of the brake caliper guide pins.



69

Tighten the fastening nut connecting the tie rod end to the steering knuckle. Use a drive socket #19. Use a torque wrench. Tighten it to 35 nm torque.



70

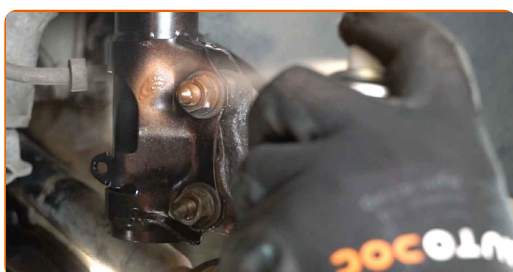
Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #18. Use a torque wrench. Tighten it to 95 Nm torque.



- 71 Tighten the fasteners connecting the ball joint to the control arm. Use a drive socket #13. Use a torque wrench. Tighten it to 35 nm torque.



- 72 Treat the shock strut fasteners. Treat the fasteners of the ball joint. Treat the fastener connecting the tie rod end to the steering knuckle. Use copper grease.



- 73 Clean the wheel rim mounting seat. Use a wire brush.



- 74 Treat the surface where the brake disc contacts the wheel rim. Use copper grease.



75

Clean the brake disk surface. Use a brake cleaner.



Replacement: wheel bearing – VW Polo Variant (6V5). Tip:

- After applying the spray, wait a few minutes.

76

Install the wheel.

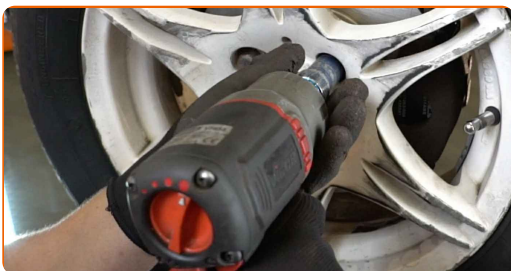


AUTODOC recommends:

- Important! Hold the wheel while screwing in the fastening bolts. VW Polo Variant (6V5)

77

Screw in the wheel bolts. Use wheel impact socket #17.

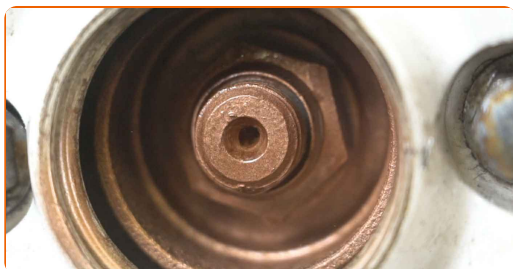


78 Lower the car.

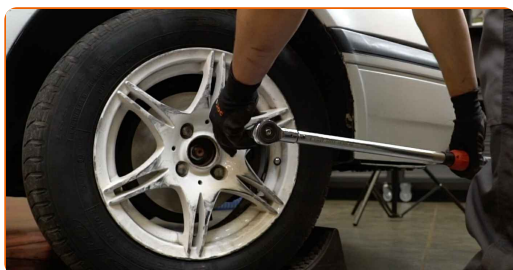
79 Tighten the drive shaft nut. Use a drive socket #30. Use a torque wrench. Tighten it to 230 Nm torque.



80 Treat the CV axle fastener. Use copper grease.

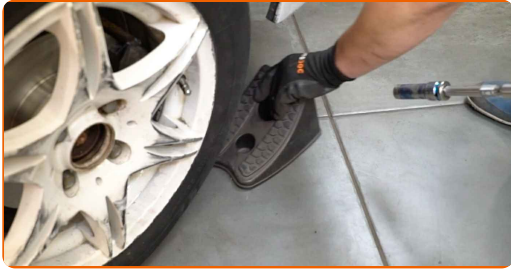


81 Tighten the wheel bolts using a criss-cross pattern. Use wheel impact socket #17. Use a torque wrench. Tighten it to 110 nm torque.



82

Remove the jacks and chocks.



WELL DONE! 

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