



How to change front
wheel bearing on **VW**
Polo 6N1 – replacement
guide

VIDEO TUTORIAL



ⓘ Important!

This replacement procedure can be used for:

VW Polo II Hatchback (86C, 80) 1.4 D, VW Polo II Hatchback (86C, 80) 1.3 CAT, VW Polo II Hatchback (86C, 80) 1.0 CAT, VW Golf II Hatchback (19E, 1G1) 1.3, VW Golf II Hatchback (19E, 1G1) 1.6, VW Golf II Hatchback (19E, 1G1) 1.8, VW Golf II Hatchback (19E, 1G1) 1.8 Syncro, VW Golf II Hatchback (19E, 1G1) 1.8 i CAT, VW Golf II Hatchback (19E, 1G1) 1.8 GTI CAT, VW Golf II Hatchback (19E, 1G1) 1.8 GTI, VW Golf II Hatchback (19E, 1G1) 1.8 GTI 16V, VW Golf II Hatchback (19E, 1G1) 1.6 D, VW Golf II Hatchback (19E, 1G1) 1.6 TD, VW Jetta Mk2 (19E, 1G2, 165) 1.3, VW Jetta Mk2 (19E, 1G2, 165) 1.6, (+ 39)

The steps may slightly vary depending on the car design.

REPLACEMENT: WHEEL BEARING – VW POLO 6N1. LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- All-purpose cleaning spray
- Brake cleaner
- Copper grease
- Torque wrench
- Combination spanner #18
- Drive socket # 8
- Drive socket # 13
- Drive socket # 18
- Drive socket # 19
- Drive socket # 30
- HEX bit No.H6
- Torx bit T27
- Wheel impact socket #17
- Bush and bearing driver set
- Ratchet wrench
- Pin punch
- Tap wrench
- Hammer
- Circlip pliers
- Ball joint puller
- Bearing separator
- Crow bar
- Wheel chock

BUY TOOLS

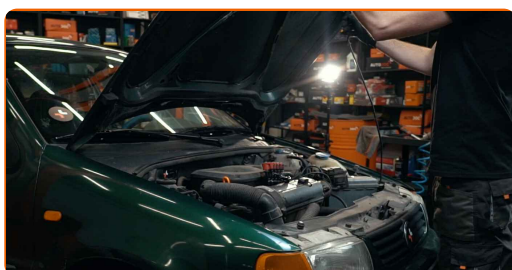
AUTODOC recommends:

- Do not re-use the bearing assembly of your VW Polo 6N1 car.
- The wheel hub bearing replacement procedure is identical for both wheels on the same axle.
- Please note: all work on the car – VW Polo 6N1 – should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1

Open the bonnet. Unscrew the brake fluid reservoir cap.



2

Secure the wheels with chocks.

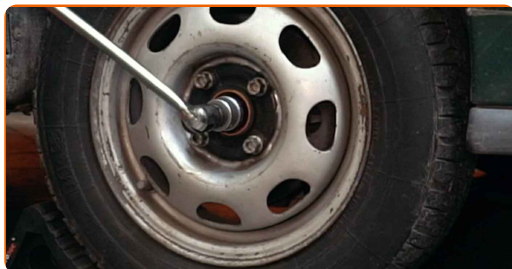
3

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



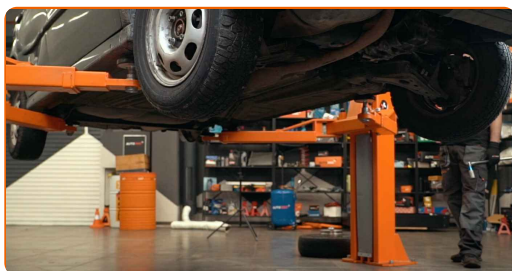
4

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



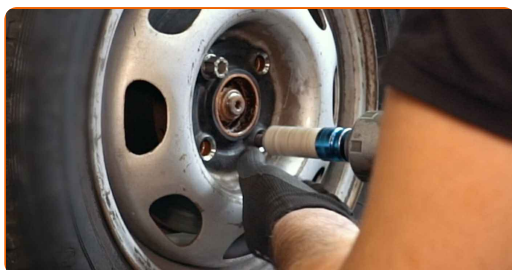
5

Raise the front of the car and secure on supports.



6

Unscrew the wheel bolts.



AUTODOC recommends:

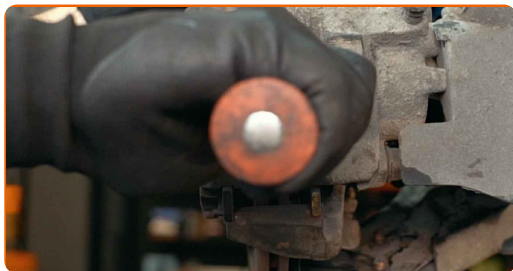
- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts. VW Polo 6N1

7

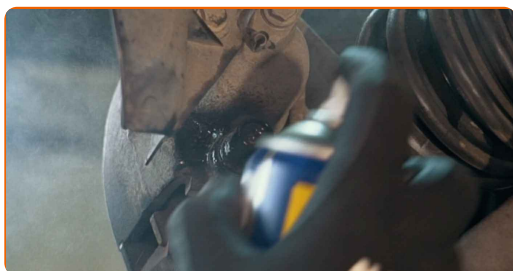
Remove the wheel.



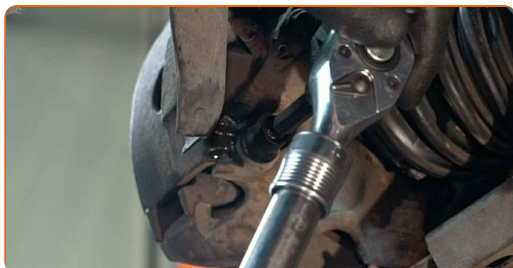
- 8 Spread the brake pads. Use a crowbar.



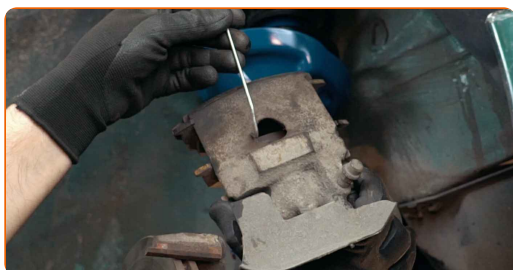
- 9 Clean the brake caliper fasteners. Use a wire brush. Use WD-40 spray.



- 10 Unscrew the brake caliper fastening. Use HEX No.H6. Use a ratchet wrench.



- 11 Remove the brake caliper.



Replacement: wheel bearing – VW Polo 6N1. Tip from AUTODOC experts:

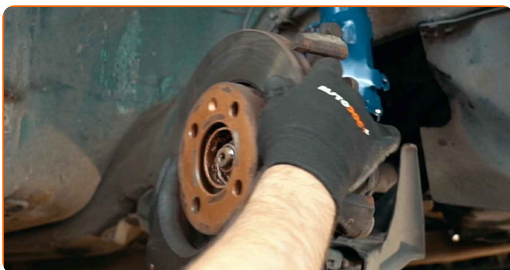
- Tie the caliper to the suspension or to the body with a wire without disconnecting from the brake hose to prevent depressurization of the brake system.
- Make sure that the brake caliper is not hanging on the brake hose.
- Don't press the brake pedal after the brake caliper has been removed. As a result, 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

Unscrew the brake disc fastening. Use Torx T27. Use a ratchet wrench.

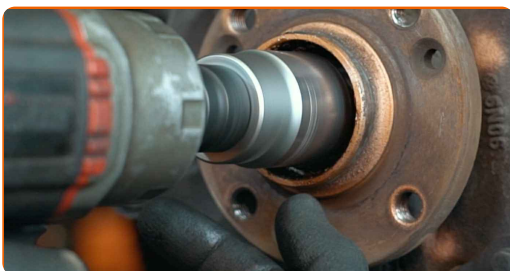
13

Remove the brake disc.

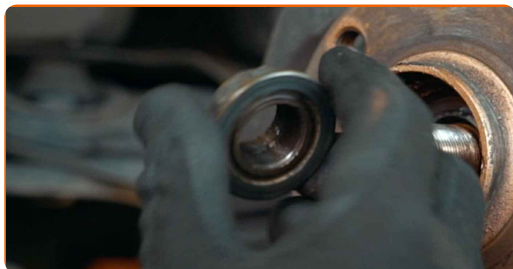


14

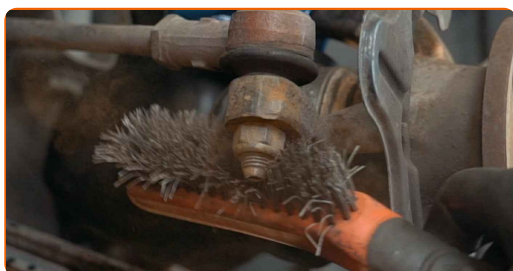
Unscrew the fastener connecting the drive shaft to the wheel hub. Use a drive socket #30. Use a ratchet wrench.



- 15 Remove the fastening nut.



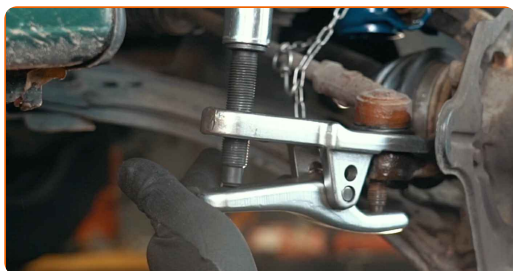
- 16 Clean the fasteners connecting the shock strut to the steering knuckle. Clean the fastener connecting the tie rod end to the steering knuckle. Use a wire brush. Use WD-40 spray.



- 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.



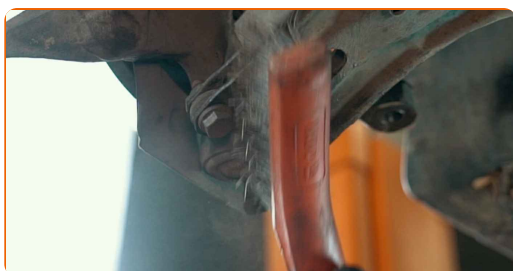
- 19** Unscrew the fasteners connecting the suspension strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #18. Use a ratchet wrench.



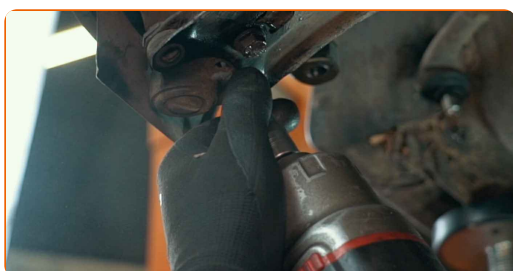
- 20** Remove the fastening bolt.



- 21** Clean the fasteners connecting the ball joint to the suspension control arm. Use a wire brush. Use WD-40 spray.

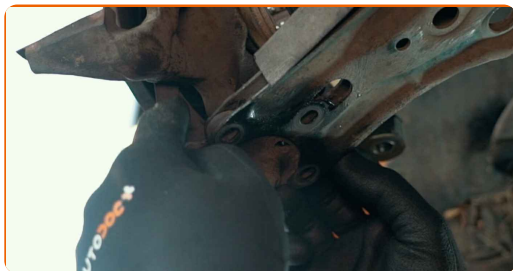


- 22** Unscrew the fastener connecting the ball joint to the suspension control arm. Use a drive socket #13. Use a ratchet wrench.



23

Disconnect the ball joint from the control arm.



24

Detach the driveshaft from the steering knuckle. Use a pin punch. Use a hammer.

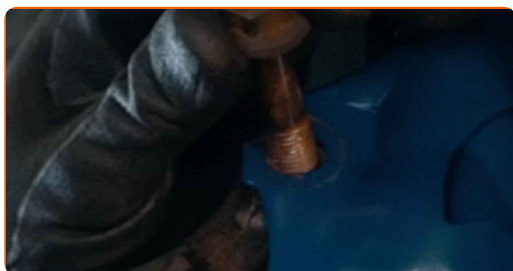


Replacement: wheel bearing – VW Polo 6N1. AUTODOC recommends:

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

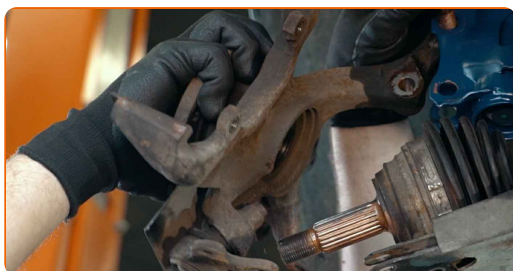
25

Remove the fastening bolt.



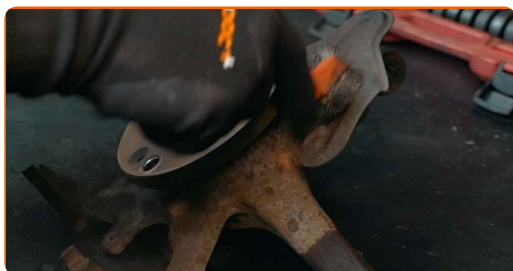
26

Remove the steering knuckle together with the hub.



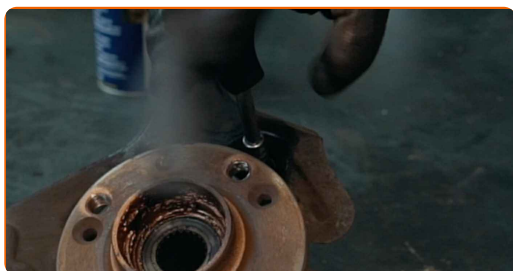
27

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



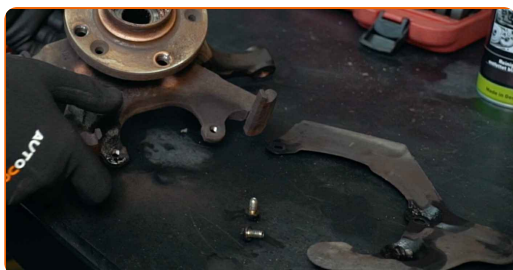
28

Unscrew the fasteners of the brake disc cover. Use a drive socket #8. Use a ratchet wrench.



29

Remove the brake disc cover.



30

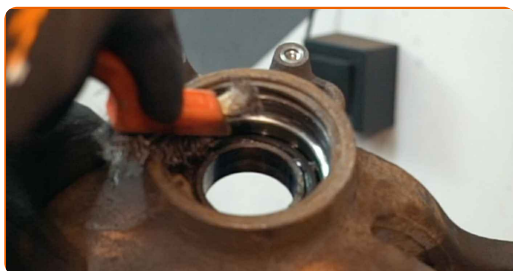
Remove the wheel hub from the steering knuckle. Use a bush and bearing driver set.



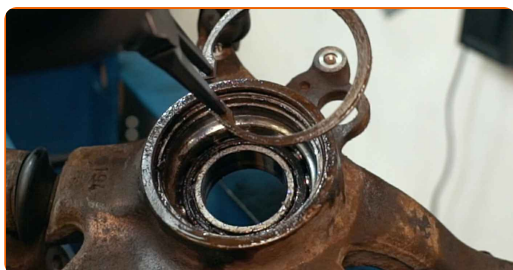
31 Pull the bearing inner race out of the wheel hub. Use a bush and bearing driver set. Use a bearing separator.



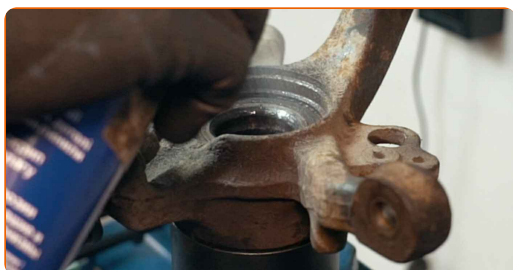
32 Clean the wheel hub bearing retaining ring. Use a wire brush. Use WD-40 spray.



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



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



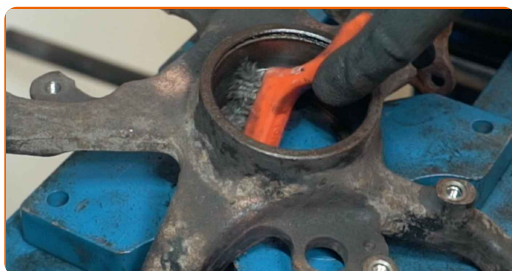
35

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



36

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



37

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

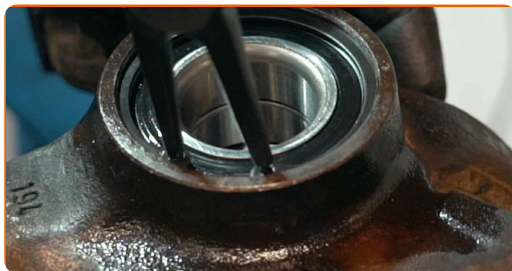


Replacement: wheel bearing – VW Polo 6N1. Tip:

- 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.

38

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



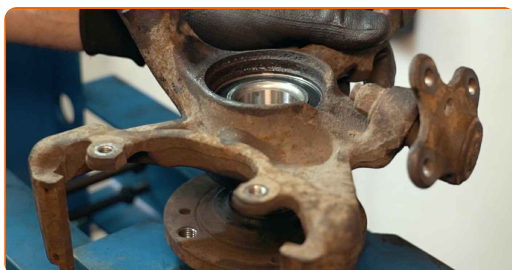
39

Treat the wheel hub fasteners. Use WD-40 spray.



40

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

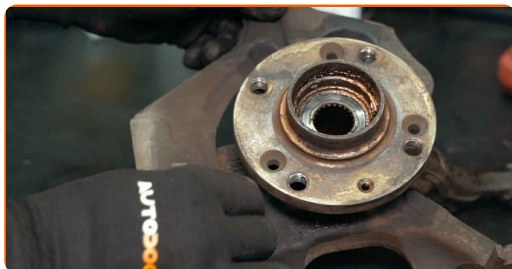


Replacement: wheel bearing – VW Polo 6N1. Professionals recommend:

- Make sure that the wheel hub is positioned correctly. Avoid any misalignment.

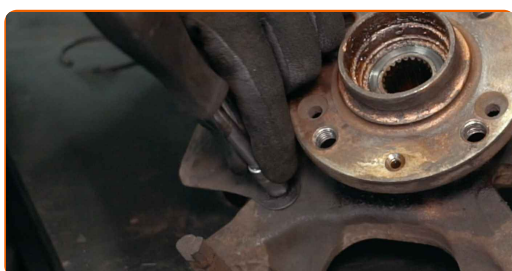
41

Install the brake disc cover.



42

Screw in the fasteners of the brake disc cover. Use a drive socket #8. Use a torque wrench. Tighten it to 5 nm torque.



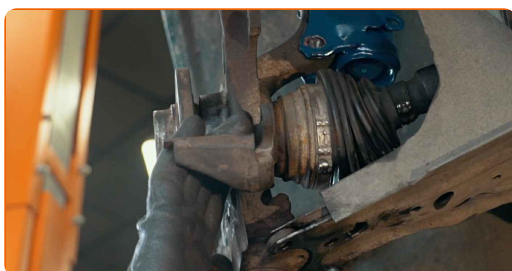
43

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



44

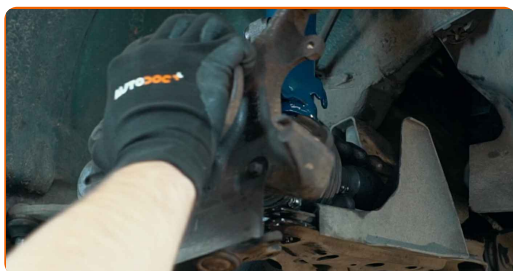
Install the steering knuckle with a hub in assembly.



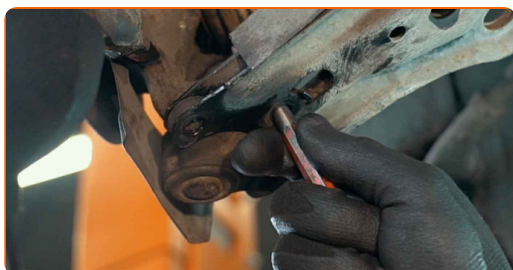
45 Install the fastening bolt.



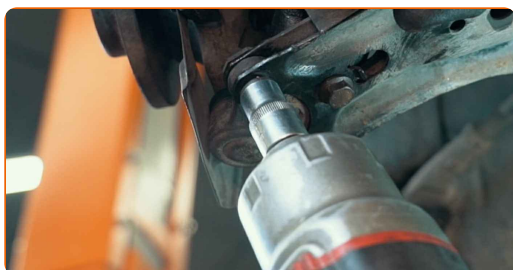
46 Install the steering knuckle on the CV axle.



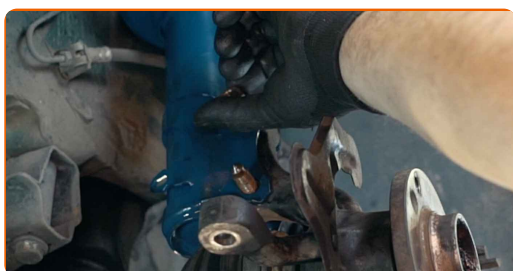
47 Attach the ball joint to the control arm. Use a pin punch.



48 Screw in the fastener connecting the ball joint to the control arm. Use a drive socket #13. Use a ratchet wrench.



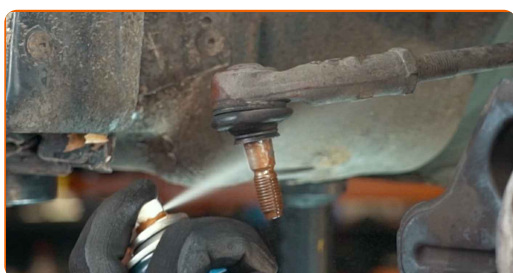
49 Install the fastening bolt.



- 50** 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.



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



- 52** Connect the tie rod end to the steering knuckle.



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



- 54** 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.



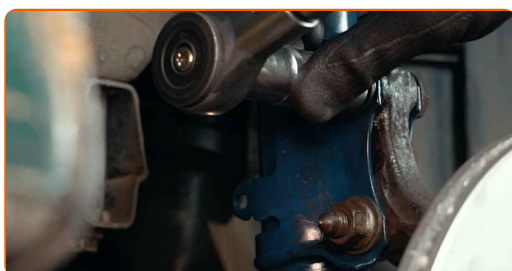
- 55** Tighten the fasteners connecting the ball joint to the control arm. Use a drive socket #13. Use a torque wrench. Tighten it to 20 Nm torque.+90°



AUTODOC recommends:

- Important! Be sure to use new fasteners.

- 56** Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a drive socket #18. Use a torque wrench. Tighten it to 95 nm torque.



57

Install the fastening nut.



58

Screw the nut of the drive shaft. Use a drive socket #30. Use a ratchet wrench.



59

Clean the hub. Use a wire brush. Use all-purpose cleaning spray. Treat the contacting surface. Use copper grease.



60

Clean the brake caliper bracket from dirt and dust. Use a wire brush. Use a brake cleaner.



AUTODOC recommends:

- Replacement: wheel bearing – VW Polo 6N1. After applying the spray, wait a few minutes.

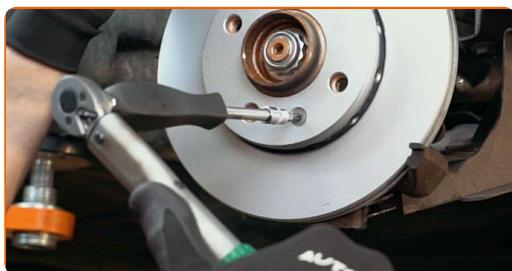
61

Install the brake disc.



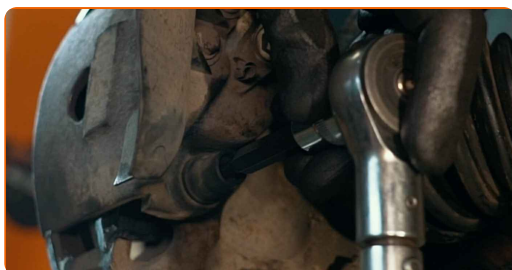
62

Tighten the brake disc fastening. Use Torx T27. Use a torque wrench. Tighten it to 9 Nm torque.



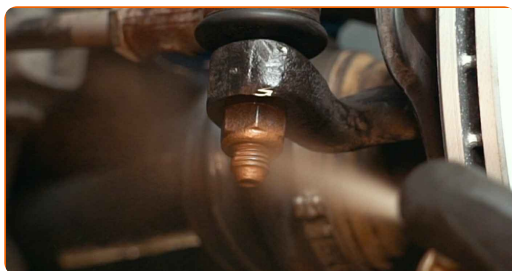
63

Install the brake caliper and fix it. Use HEX No.H6. Use a torque wrench. Tighten it to 25 Nm torque.



64

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

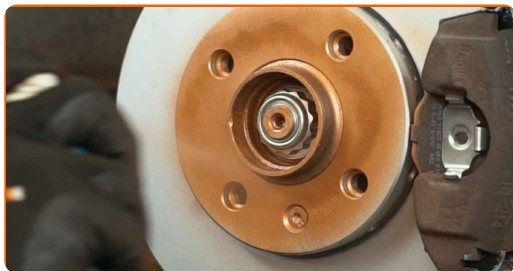


65

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

66

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



67

Clean the brake disk surface. Use a brake cleaner.



Replacement: wheel bearing – VW Polo 6N1. AUTODOC recommends:

- After applying the spray, wait a few minutes.

68

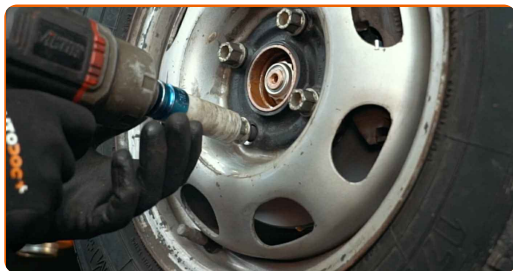
Install the wheel.



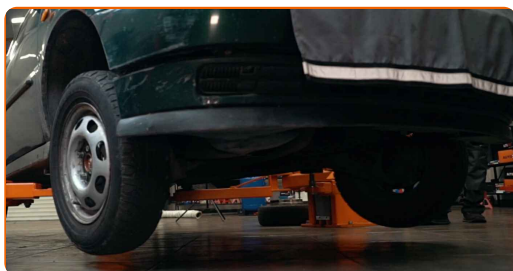
AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. VW Polo 6N1

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



70 Lower the car.



71 Tighten the drive shaft nut. Use a drive socket #30. Use a torque wrench. Tighten it to 200 Nm torque.



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



73

Remove the jacks and chocks.



Replacement: wheel bearing – VW Polo 6N1. Tip from AUTODOC:

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

74

Tighten the brake fluid reservoir cap. Close the hood.



WELL DONE! 👍

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