



How to change front
wheel bearing on **VW**
Lupo 6X1 – replacement
guide

VIDEO TUTORIAL



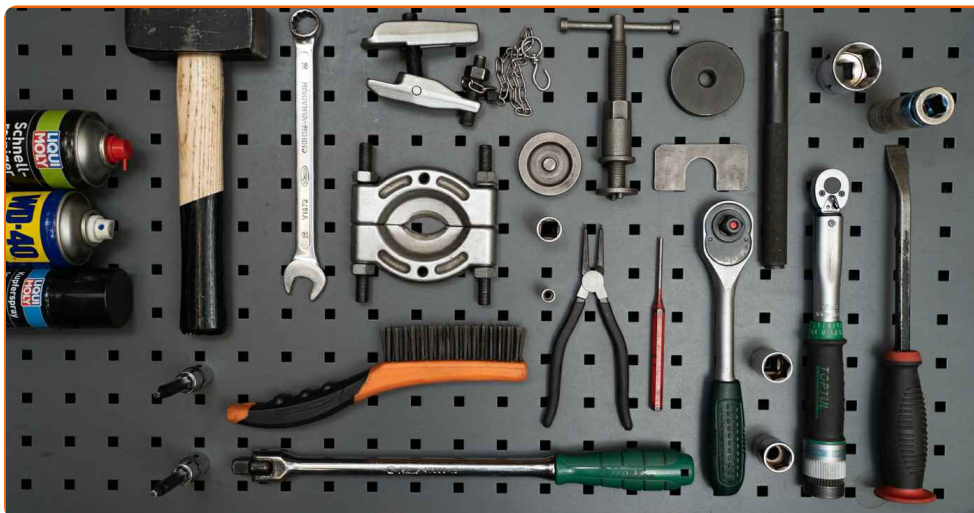
Important!

This replacement procedure can be used for:

VW GOLF II (19E, 1G1) 1.3, VW GOLF II (19E, 1G1) 1.6, VW GOLF II (19E, 1G1) 1.8 Syncro, VW GOLF II (19E, 1G1) 1.8 i CAT, VW GOLF II (19E, 1G1) 1.8 GTI CAT, VW GOLF II (19E, 1G1) 1.8 GTI, VW GOLF II (19E, 1G1) 1.8 GTI 16V, VW GOLF II (19E, 1G1) 1.6 D, VW GOLF II (19E, 1G1) 1.6 TD, VW Jetta II (19E, 1G2, 165) 1.3, VW Jetta II (19E, 1G2, 165) 1.6, VW Jetta II (19E, 1G2, 165) 1.8 CAT, VW Jetta II (19E, 1G2, 165) 1.8, VW Jetta II (19E, 1G2, 165) 1.8 16V, VW Jetta II (19E, 1G2, 165) 1.6 D, (+ 32)

The steps may slightly vary depending on the car design.

REPLACEMENT: WHEEL BEARING – VW LUPO 6X1. 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 T30
- Wheel impact socket #17
- Bush and bearing driver set
- Bearing separator
- Ball joint puller
- Ratchet wrench
- Circlip pliers
- Tap wrench
- Hammer
- Pin punch
- Crow bar
- Hydraulic transmission jack
- Wheel chock

BUY TOOLS

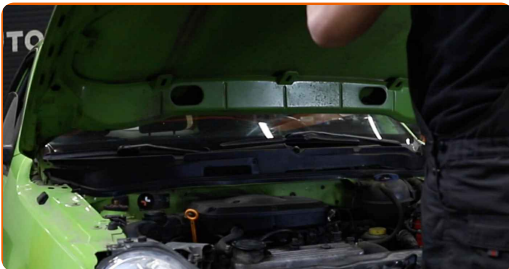
AUTODOC recommends:

- Do not re-use the bearing assembly of your VW Lupo 6X1 Scenic car.
- The wheel hub bearing replacement procedure is identical for both wheels on the same axle.
- Please note: all work on the car – VW Lupo 6X1 – should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

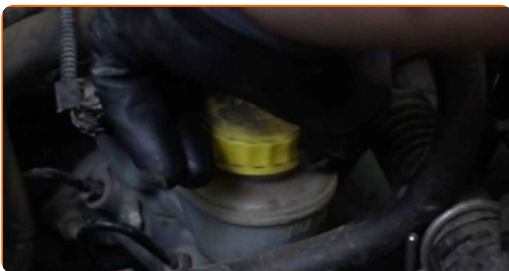
1

Open the bonnet.



2

Unscrew the brake fluid reservoir cap.

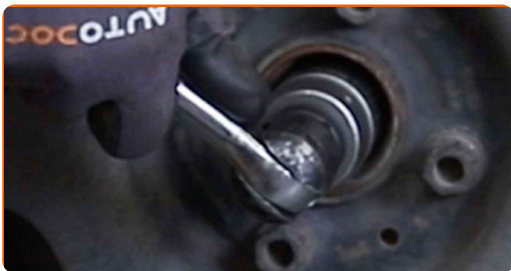


3

Secure the wheels with chocks.

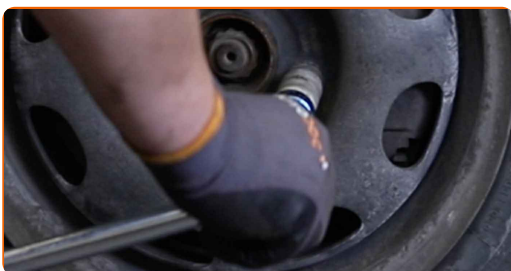
4

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



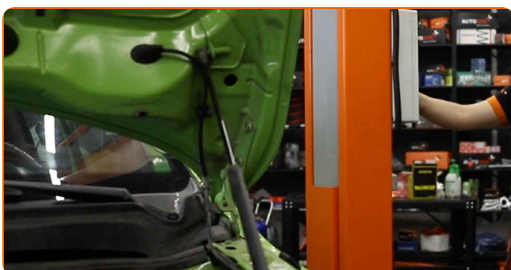
5

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



6

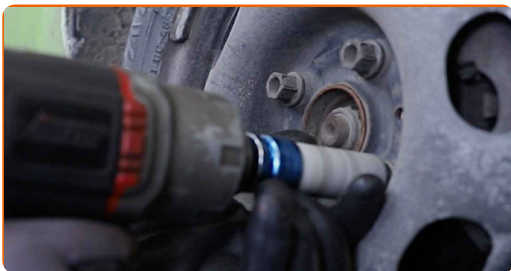
Raise the car.



Replacement: wheel bearing – VW Lupo 6X1. Tip:

- If you are using a jack, make sure it rests on a flat surface without any unevenness.
- Be sure to additionally secure the car with jack stands.

7 Unscrew the wheel bolts.



AUTODOC recommends:

- Important! Hold the wheel while unscrewing the fastening bolts. VW Lupo 6X1

8 Remove the wheel.



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



10 Remove the fastening bolts.



11

Spread the brake pads. Use a crowbar.



12

Remove the brake caliper.



Replacement: wheel bearing – VW Lupo 6X1. AUTODOC experts 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.

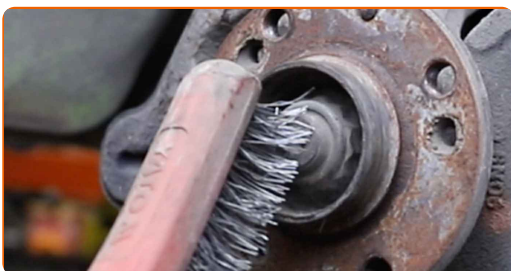
13

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

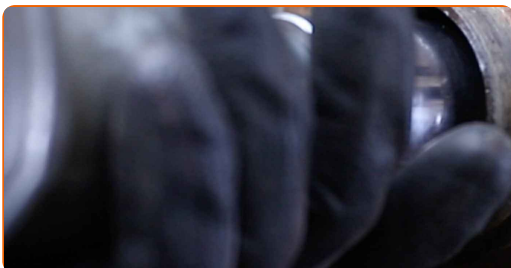
14 Remove the brake disc.



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



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

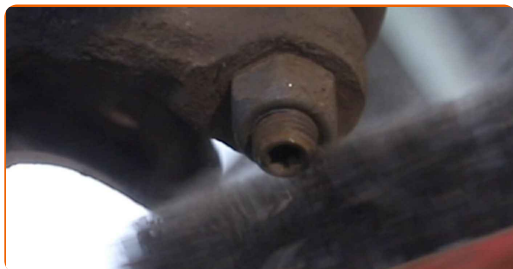


17 Remove the fastening nut.



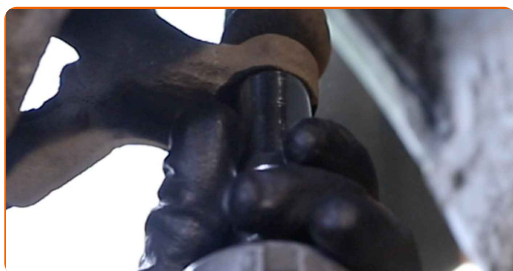
18

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



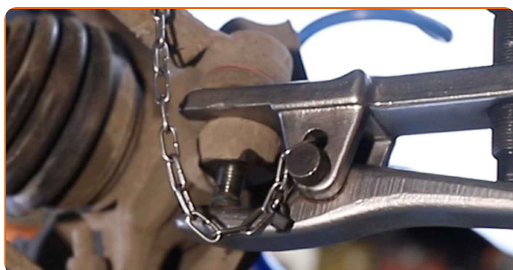
19

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



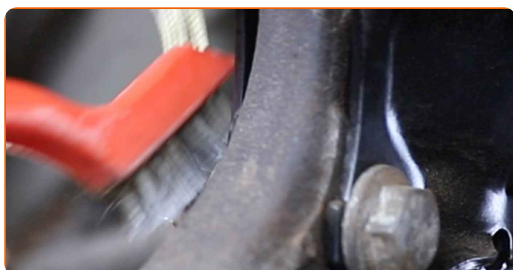
20

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



21

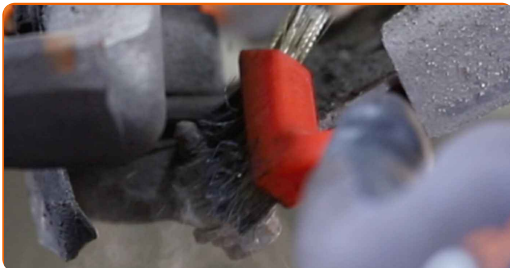
Clean the fasteners connecting the shock strut to the steering knuckle. Use a wire brush. Use WD-40 spray.



- 22** 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.



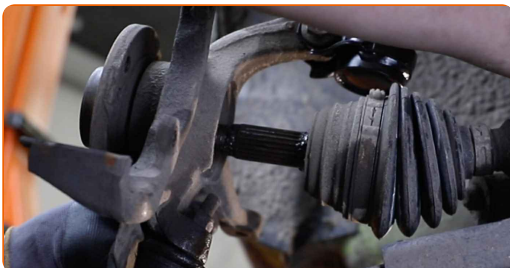
- 23** Clean the fasteners connecting the ball joint to the suspension control arm. Use a wire brush. Use WD-40 spray.



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



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



Replacement: wheel bearing – VW Lupo 6X1. Tip from AUTODOC experts:

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

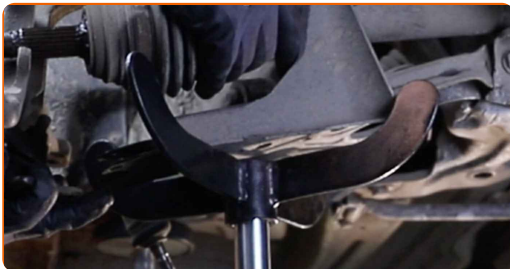
26

Disconnect the ball joint from the arm.



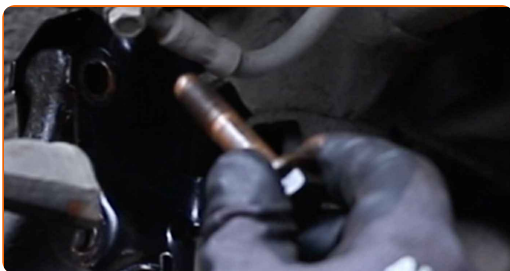
27

Support the arm. Use a hydraulic transmission jack.



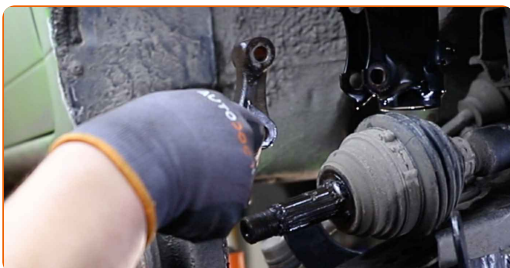
28

Remove the fastening bolts.

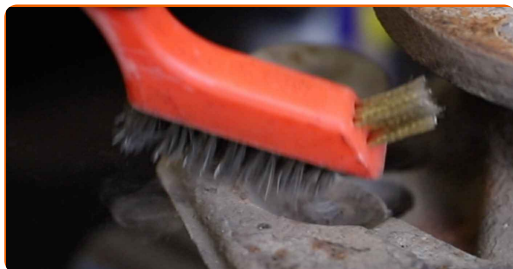


29

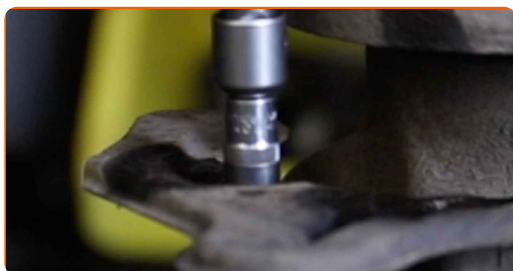
Disconnect the steering knuckle from the shock absorber strut.



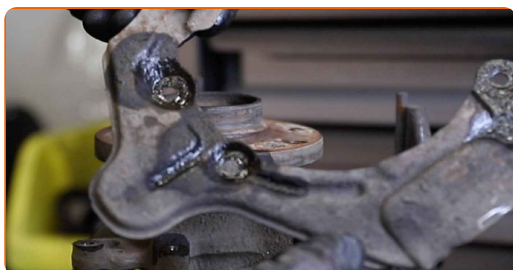
30 Clean the fasteners of the brake disc cover. Use a wire brush. Use WD-40 spray.



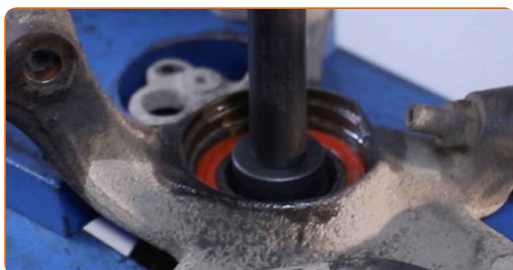
31 Unscrew the fasteners of the brake disc cover. Use a drive socket #8. Use a ratchet wrench.



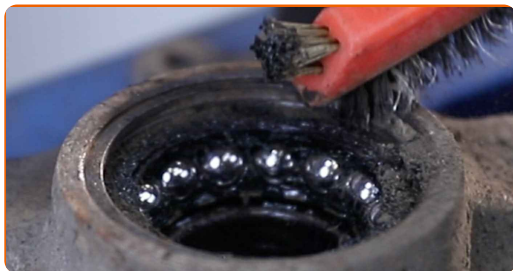
32 Remove the brake disc cover.



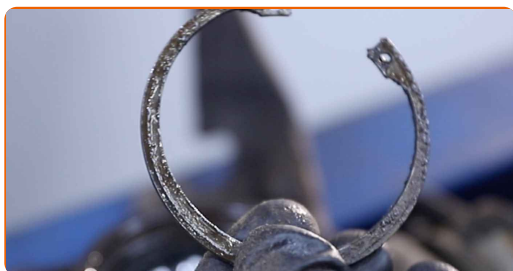
33 Remove the wheel hub from the steering knuckle. Use a bush and bearing driver set.



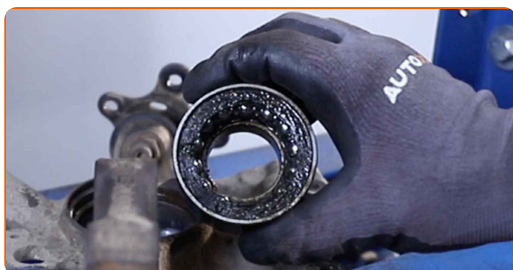
34 Clean the wheel hub bearing retaining ring. Use a wire brush. Use WD-40 spray.



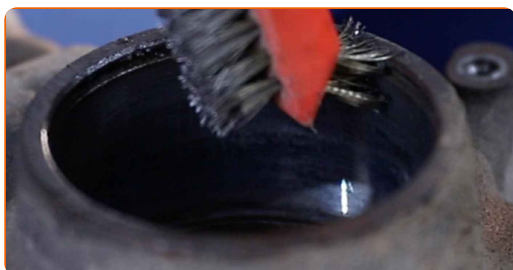
35 Remove the wheel hub bearing retaining ring. Use circlip pliers.



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



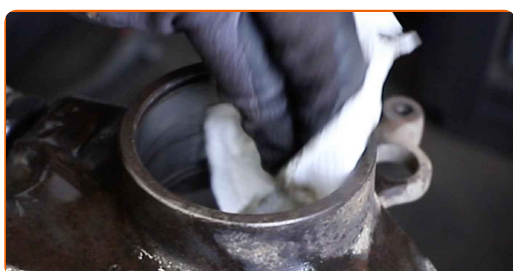
37 Clean the hub bearing mounting seat. Use a wire brush. Use WD-40 spray.



- 38** Press out the inner bearing race that is remaining on the hub. Use a bush and bearing driver set. Use a bearing separator.



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



- 40** Press-fit the new bearing into the steering knuckle. Use a bush and bearing driver set.



Replacement: wheel bearing – VW Lupo 6X1. 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.

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



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



AUTODOC recommends:

- Check to make sure the wheel hub bearing is positioned correctly. Avoid its misalignment.

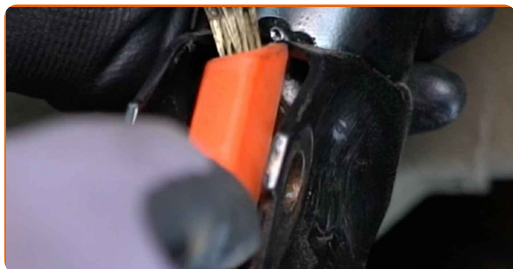
43 Install the brake disc cover.



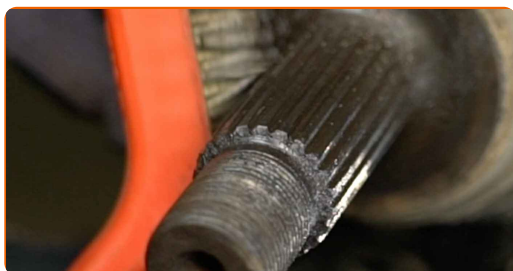
44 Tighten the fasteners of the brake disc back plate. Use a drive socket #8. Use a torque wrench. Tighten it to 5 Nm torque.



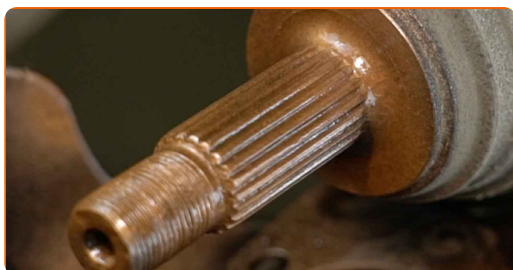
45 Clean the mounting seats of the shock strut. Use a wire brush. Use WD-40 spray.



46 Clean the splines of the drive shaft CV joint. Use a wire brush. Use WD-40 spray.



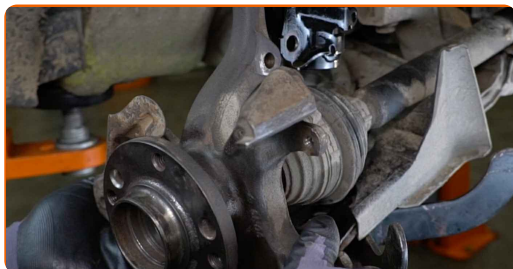
47 Treat the splines of the driveshaft CV joint. Use copper grease.



48 Clean the ball joint mounting seat. Use a wire brush. Use WD-40 spray.

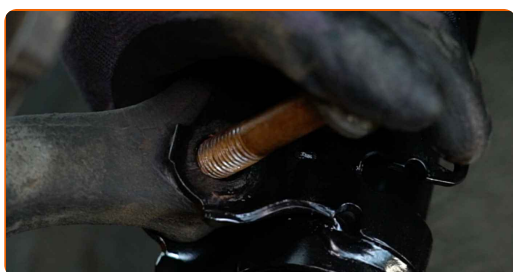


49 Install the steering knuckle on the CV axle.

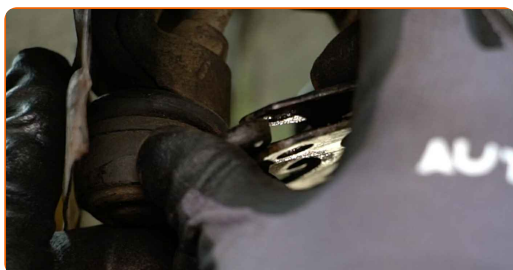


50 Fix the shock absorber strut on the steering knuckle.

51 Install the fastening bolts.

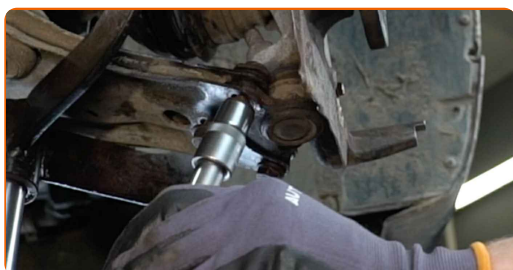


52 Attach the ball joint to the control arm.

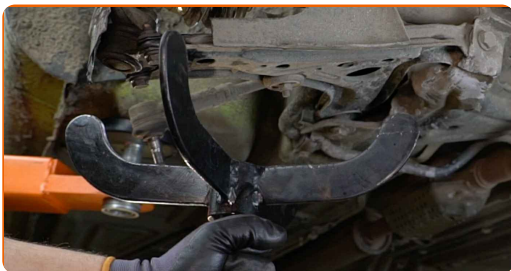


53 Install the fastening bolts.

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



55 Remove the support from under the arm.



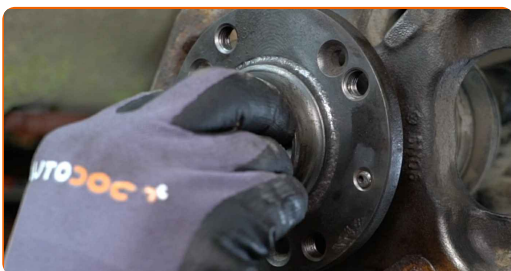
AUTODOC recommends:

- Replacement: wheel bearing – VW Lupo 6X1. Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

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



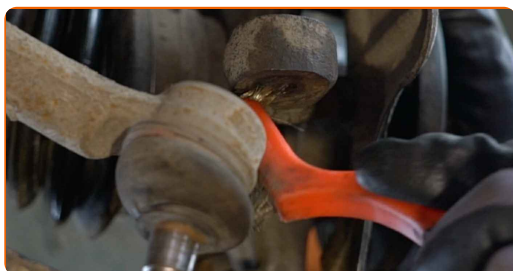
57 Install the fastening nut.



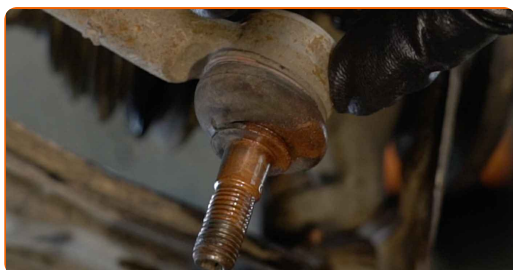
58 Screw in the nut of the CV axle. Use a drive socket #30. Use a ratchet wrench.



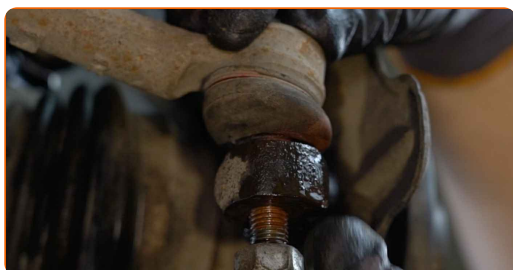
59 Clean the mounting seat of the tie rod end. Use a wire brush. Use WD-40 spray.



60 Treat the mounting seats of the tie rod end. Use copper grease.

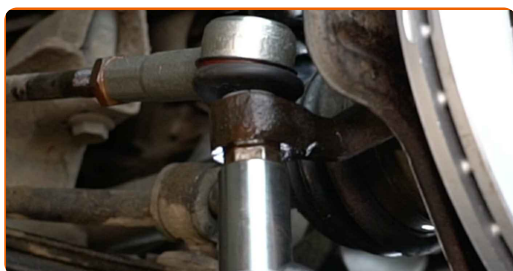


61 Connect the tie rod end to the steering knuckle.

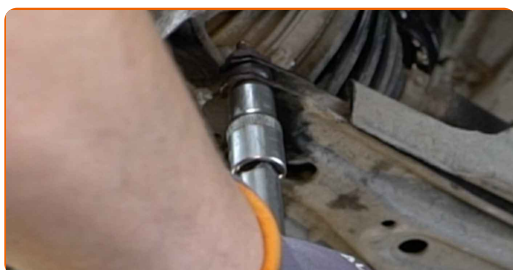


62 Screw on the fastening nut that connects the tie rod end to the steering knuckle. Use a drive socket #19. Use a ratchet wrench.

- 63** 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.



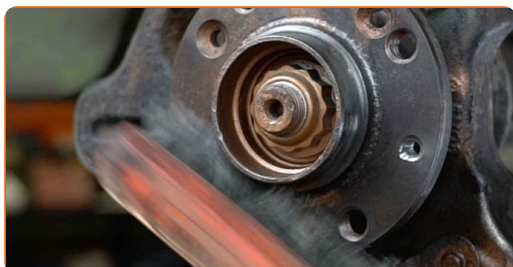
- 64** Tighten the fasteners connecting the ball joint to the control arm. Use a drive socket #13. Use a torque wrench. Tighten it to 20 Nm torque. +90°



- 65** 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 40 Nm torque. +90°

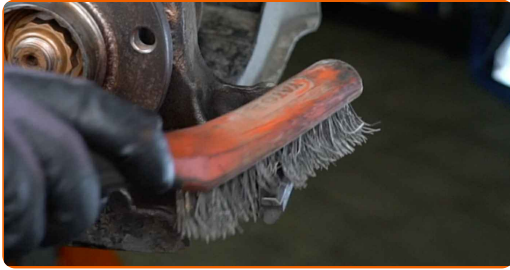


- 66** Clean the hub. Use a wire brush. Use all-purpose cleaning spray.



67

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

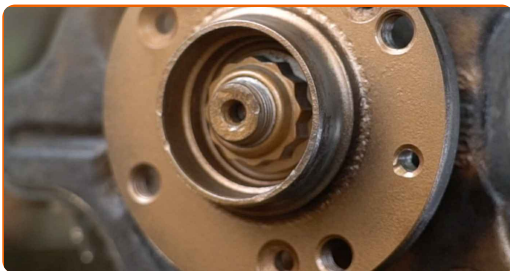


AUTODOC recommends:

- After applying the spray, wait a few minutes.

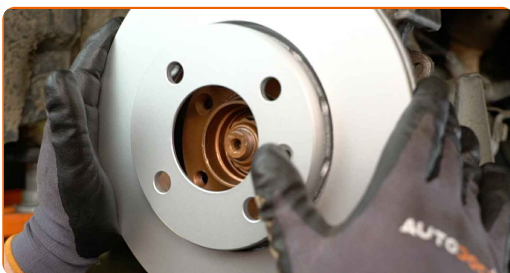
68

Treat the hub where it contacts the brake disk. Use copper grease.



69

Install the brake disc.

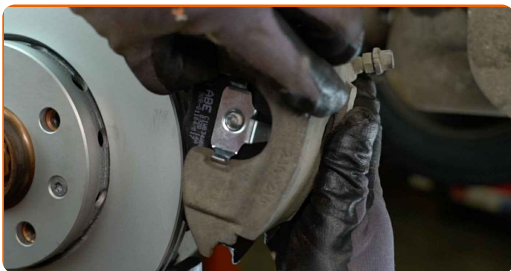


70

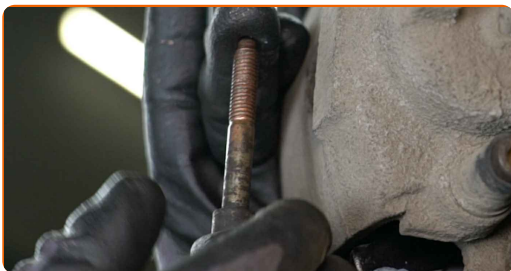
Tighten the brake disc fastening. Use Torx T30. Use a torque wrench. Tighten it to 4 Nm torque.



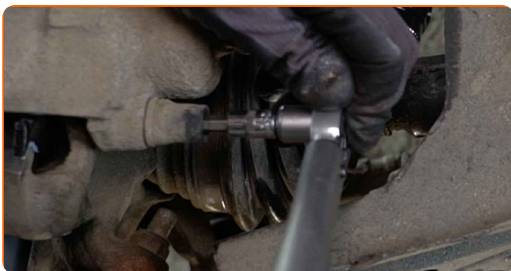
71 Install the brake caliper and fix it.



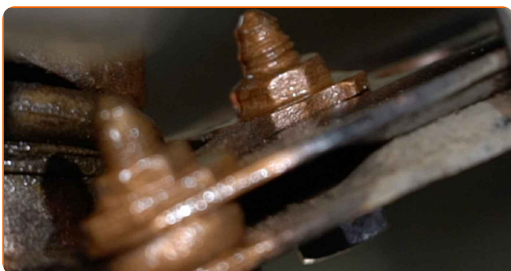
72 Install the fastening bolts.



73 Tighten the brake caliper fasteners. Use HEX No.H6. Use a torque wrench. Tighten it to 25 Nm torque.



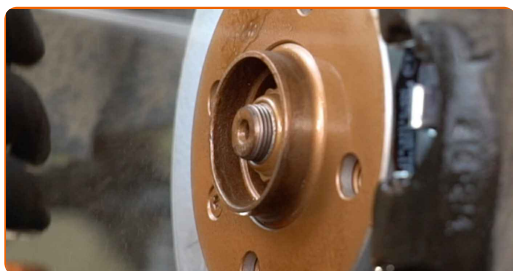
74 Treat the fasteners of the ball joint. Treat the shock strut fasteners. Treat the fastener connecting the tie rod end to the steering knuckle. Use copper grease.



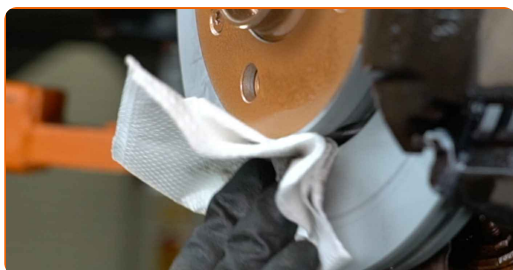
75 Clean the wheel rim mounting seat. Use a wire brush.



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



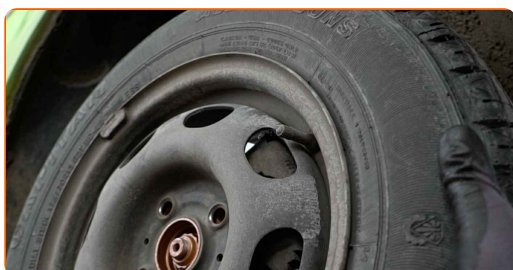
77 Clean the brake disk surface. Use a brake cleaner.



AUTODOC recommends:

- Replacement: wheel bearing – VW Lupo 6X1. After applying the spray, wait a few minutes.

78 Install the wheel.

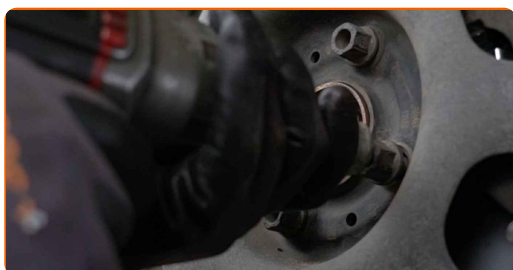


AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. VW Lupo 6X1

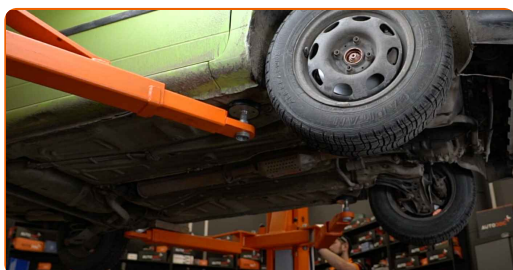
79

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



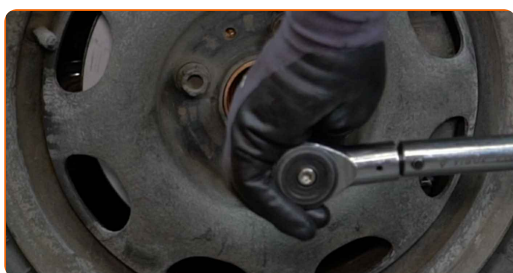
80

Lower the car.



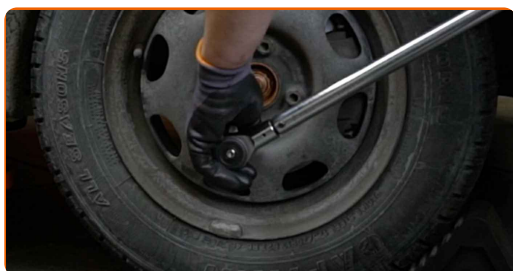
81

Tighten the drive shaft nut. Use a drive socket #30. Use a torque wrench. Tighten it to 175 Nm torque.



82

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



83

Remove the jacks and chocks.



Replacement: wheel bearing – VW Lupo 6X1. AUTODOC recommends:

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

84

Tighten the brake fluid reservoir cap. Close the hood.



WELL DONE! 

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