



How to change front
wheel bearing on **OPEL**
Adam (M13) –
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:

OPEL Adam (M13) 1.4 S

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 Corsa D Hatchback (S07) 1.3 CDTI (L08, L68)

**REPLACEMENT: WHEEL BEARING – OPEL ADAM (M13).
LIST OF THE TOOLS YOU'LL NEED:**



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #16
- Combination spanner #18
- Torx bit T30
- HEX bit no.H5.
- Drive socket # 16
- Drive socket # 17
- Drive socket # 18
- Drive socket # 19
- Drive socket # 36
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Tap wrench
- Pin punch
- Flat chisel
- Hammer
- 3-Arm Gear Puller
- Vice
- Bush and bearing driver set
- Flat Screwdriver
- Crow bar
- Bearing separator
- Ball joint puller
- Wheel chock

Buy tools

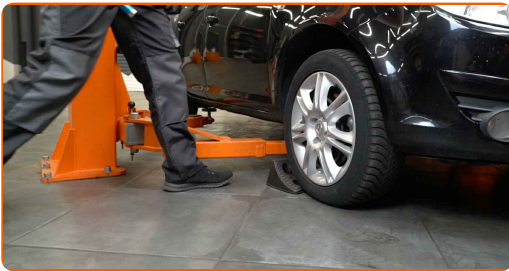
Replacement: wheel bearing – OPEL Adam (M13). Tip:

- Do not re-use the bearing assembly of your OPEL Adam (M13) car.
- The wheel hub bearing replacement procedure is identical for both wheels on the same axle.
- Please note: all work on the car – OPEL Adam (M13) – should be done with the engine switched off.

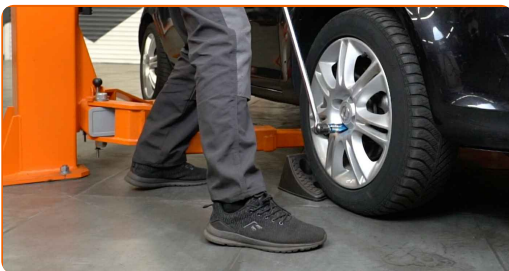
CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1

Secure the wheels with chocks.

**2**

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

**3**

Raise the front of the car and secure on supports.

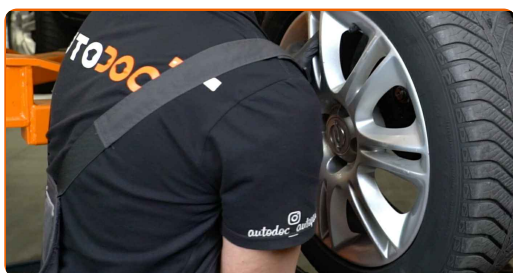
4 Unscrew the wheel bolts.



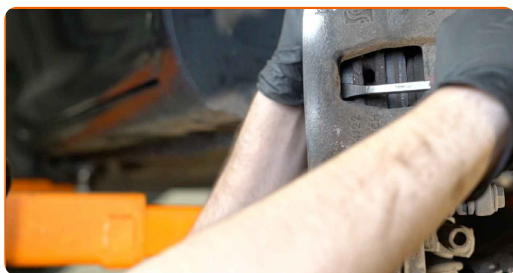
Replacement: wheel bearing – OPEL Adam (M13). AUTODOC recommends:

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

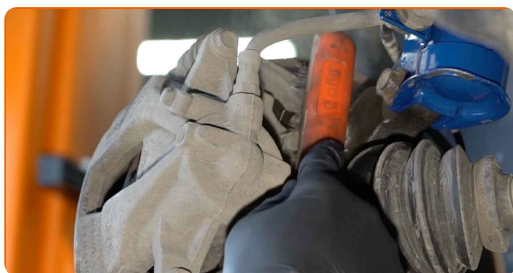
5 Remove the wheel.



6 Spread the brake pads. Use a crowbar.



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



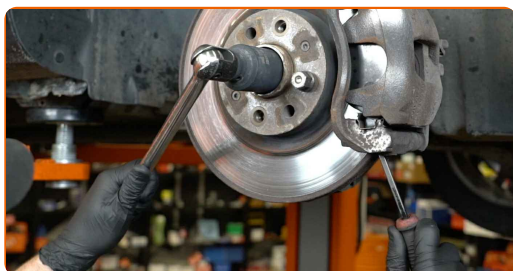
8

Unstake the fastener of the driveshaft. Use a flat metal-working chisel. Use a hammer.



9

Unscrew the fastener connecting the drive shaft to the wheel hub. Use a drive socket #36. Use a tap wrench.



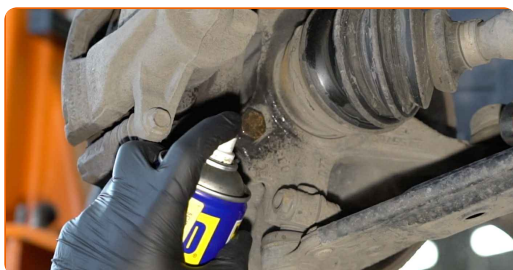
10

Remove the fastening nut.



11

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



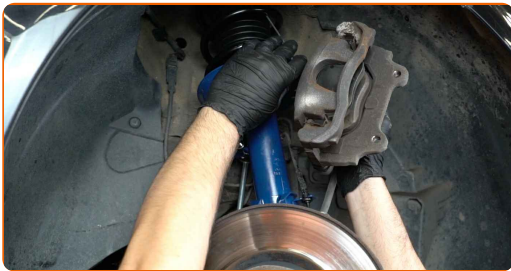
12

Unscrew the caliper bracket fastening. Use a drive socket #19. Use a tap wrench.



13

Remove the brake caliper together with its bracket.



Replacement: wheel bearing – OPEL Adam (M13). 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.

14

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



15

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



16

Remove the brake disc.



17

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



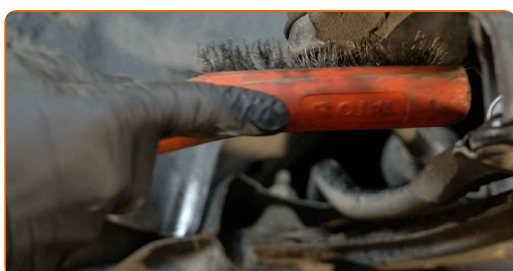
- 18 Unscrew the ball joint fastening to the steering knuckle. Use a combination spanner #16. Use a drive socket #16. Use a tap wrench.



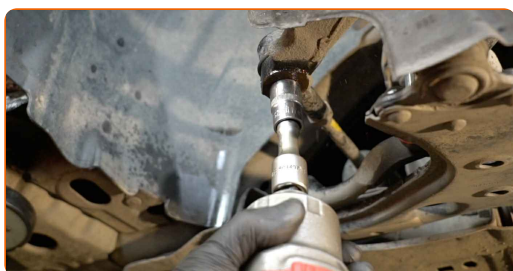
- 19 Remove the fastening bolt.



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



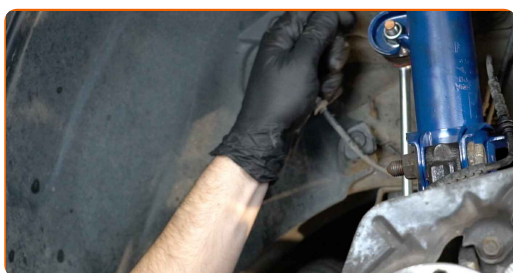
- 21 Unscrew the end fastening nut to the steering knuckle. Use a drive socket #17. Use a ratchet wrench.



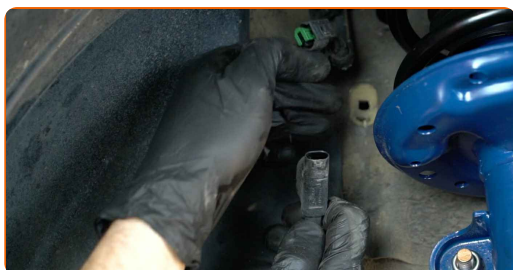
22 Disconnect the tie rod end from the steering knuckle. Use a ball joint puller.



23 Disconnect the ABS sensor wiring. Use a crowbar.



24 Detach the ABS sensor connector.



25 Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #18. Use a ratchet wrench.



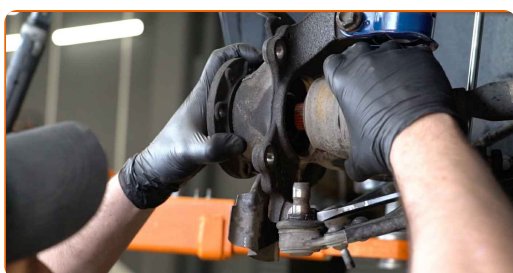
- 26** Release the fastener connecting the ball joint to the steering knuckle. Use a flat metal-working chisel. Use a hammer.



- 27** Disconnect the ball joint from the steering knuckle. Use a crowbar.



- 28** Detach the driveshaft from the steering knuckle.



Replacement: wheel bearing – OPEL Adam (M13). Tip:

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

- 29** Remove the fastening bolts.

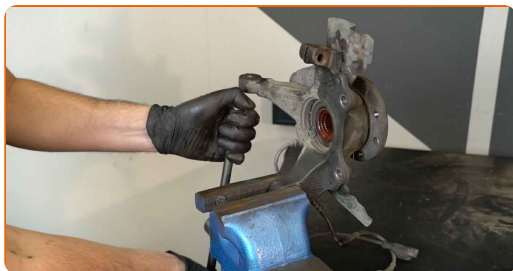
30 Disconnect the steering knuckle from the shock absorber strut.



31 Remove the steering knuckle together with the hub.



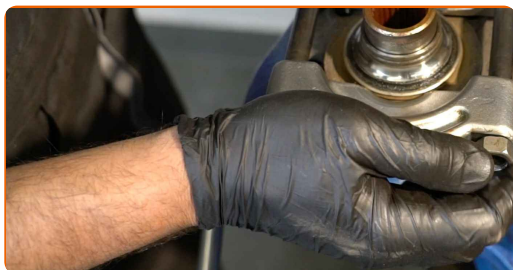
32 Grip the wheel hub together with the bearing in a vice.



33 Remove the wheel hub from the steering knuckle. Use a pin punch. Use a hammer.



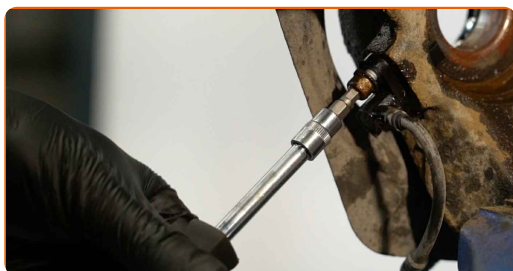
34 Pull the bearing inner race out of the wheel hub. Use 3-Arm Gear Puller. Use a bearing separator.



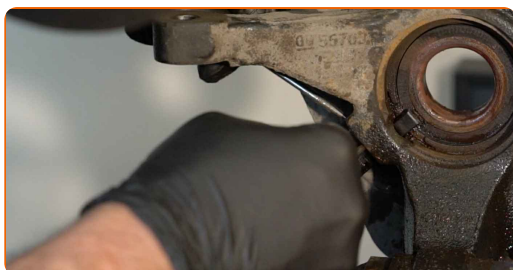
35 Clean the ABS sensor fastener. Use a wire brush. Use WD-40 spray.



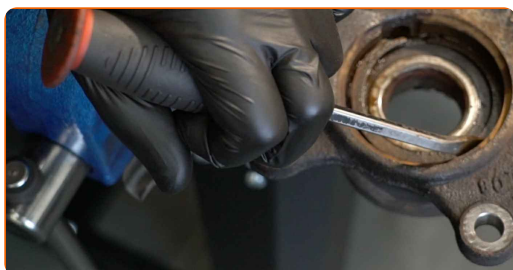
36 Unscrew the ABS sensor fastener. Use HEX No.H5. Use a ratchet wrench.



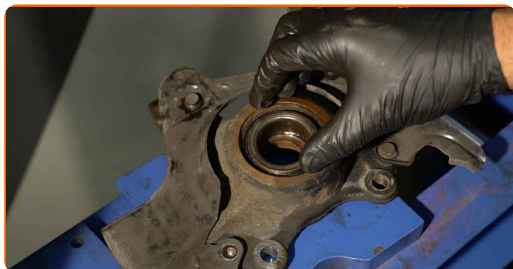
37 Disconnect the ABS sensor. Use a flat screwdriver.



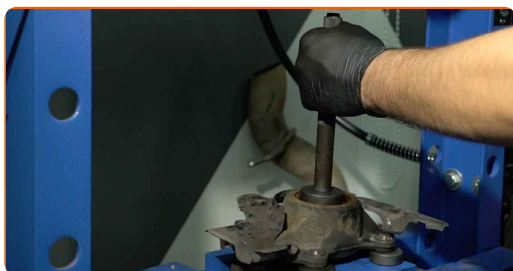
38 Remove the wheel hub bearing retaining ring. Use a crowbar. Use a hammer.



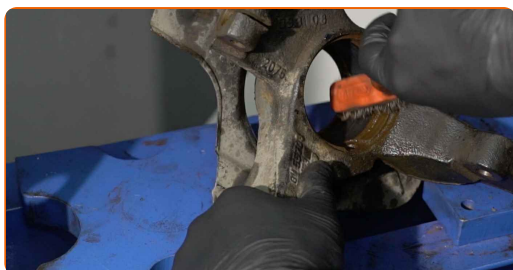
39 Release the vice and take out the wheel hub together with the bearing.



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



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



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

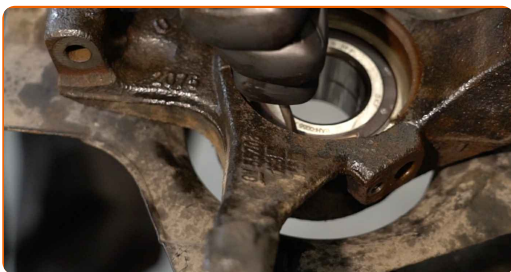


Replacement: wheel bearing – OPEL Adam (M13). AUTODOC recommends:

- 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 a flat screwdriver.



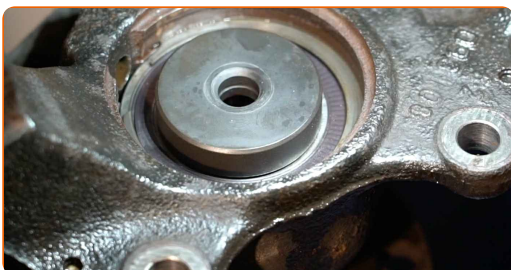
44

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



45

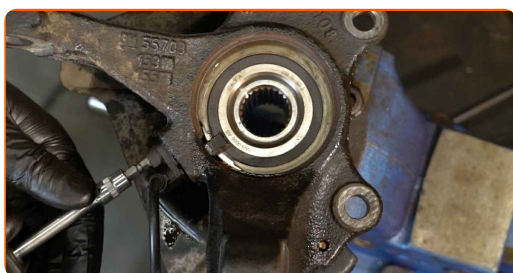
Install the wheel hub on the steering knuckle. Use a bush and bearing driver set.



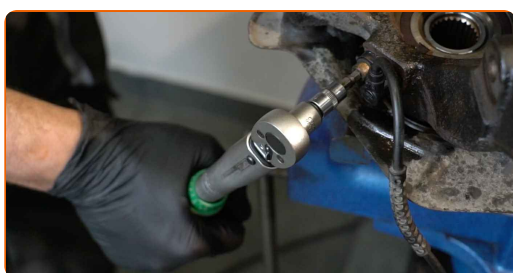
46 Install the steering knuckle with a hub in assembly.



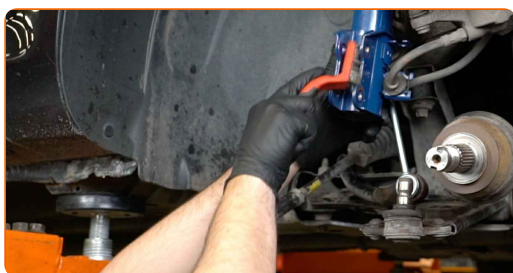
47 Connect the ABS sensor.



48 Tighten the fastener that connects the ABS sensor to the steering knuckle. Use HEX No.H5. Use a torque wrench. Tighten it to 13 Nm torque.



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



50 Fix the shock absorber strut on the steering knuckle.



51 Install the fastening bolts.

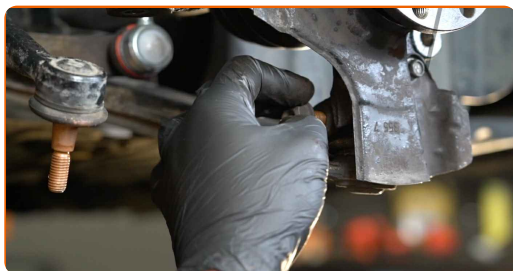
52 Treat the splines of the driveshaft CV joint. Use WD-40 spray.

53 Install the drive shaft.

54 Connect the ball joint to the steering knuckle.



55 Install the fastening bolt.

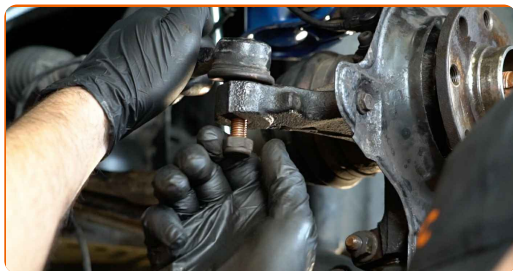


56 Screw the fasteners of the ball joint. Use a combination spanner #16. Use a drive socket #16. Use a tap wrench.



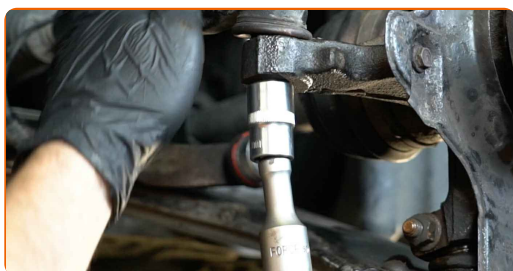
57

Connect the tie rod end to the steering knuckle.



58

Screw on the fastening nut that connects the tie rod end to the steering knuckle. Use a drive socket #17. Use a ratchet wrench.



59

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 80 Nm torque.+60°



AUTODOC recommends:

- Important! Be sure to use new fasteners.

- 60 Tighten the fastening nut connecting the tie rod end to the steering knuckle. Use a drive socket #17. Use a torque wrench. Tighten it to 35 nm torque.



- 61 Tighten the ball joint fastener. Use a combination spanner #16. Use a drive socket #16. Use a torque wrench. Tighten it to 60 Nm torque.



- 62 Install the fastening nut.



- 63 Screw the nut of the drive shaft. Use a drive socket #36. Use a ratchet wrench.



64

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



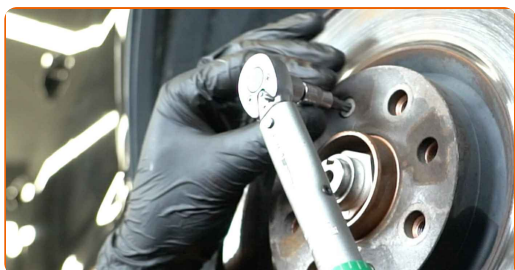
65

Install the brake disc.



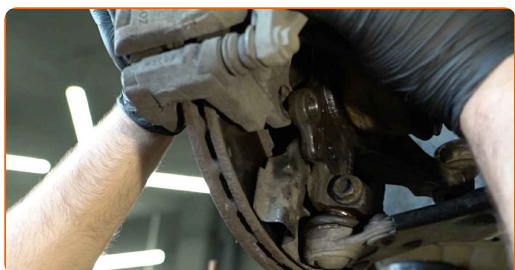
66

Tighten the brake disc fastening. Use Torx T30. Use a torque wrench. Tighten it to 7 Nm torque.

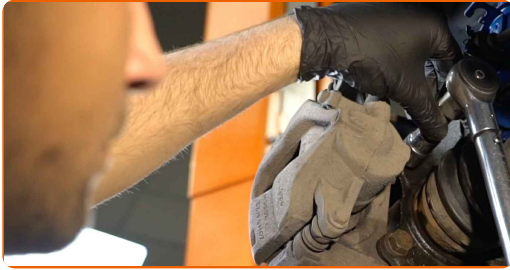


67

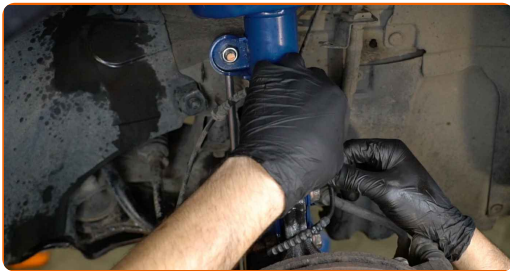
Install the brake caliper together with its bracket.



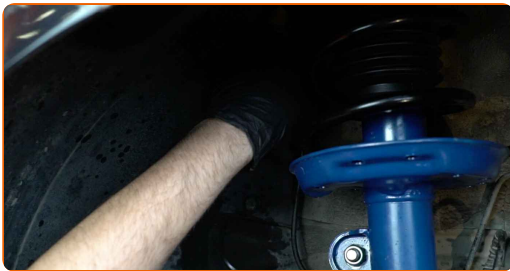
68 Tighten the brake caliper bracket. Use a drive socket #19. Use a torque wrench. Tighten it to 105 Nm torque.



69 Connect the ABS sensor wiring.



70 Attach the ABS sensor connector.



71 Tighten the drive shaft nut. Use a drive socket #36. Use a torque wrench. Tighten it to 70 Nm torque.+60°

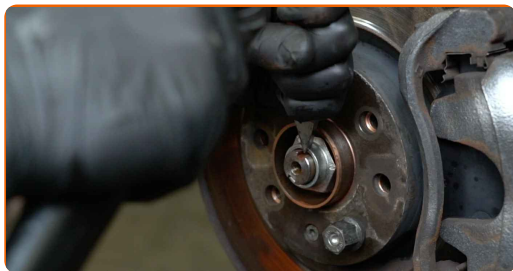


AUTODOC recommends:

- Important! Be sure to use new fasteners.

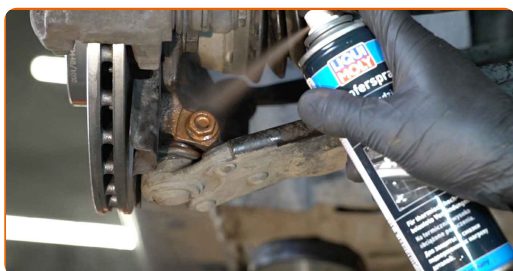
72

Restake the fastener of the driveshaft. Use a flat metal-working chisel. Use a hammer.



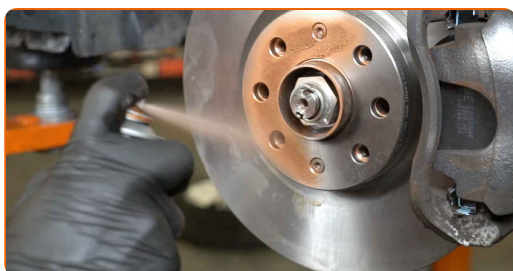
73

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



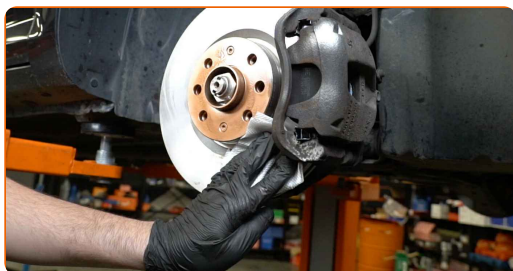
74

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



75

Clean the brake disk surface. Use a brake cleaner.

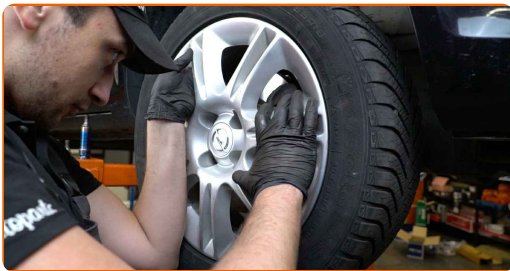


AUTODOC recommends:

- Replacement: wheel bearing – OPEL Adam (M13). After applying the spray, wait a few minutes.

76

Install the wheel.



Replacement: wheel bearing – OPEL Adam (M13). AUTODOC experts recommend:

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

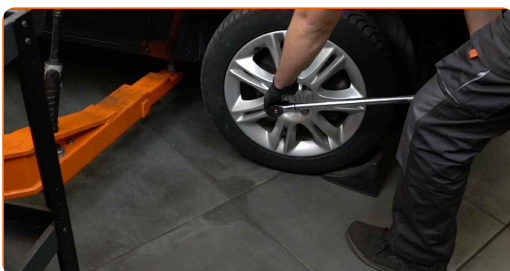
77

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



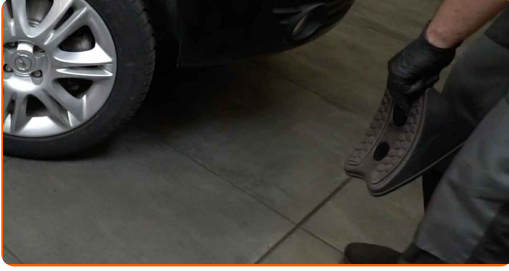
78

Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #17. Use a torque wrench. Tighten it to 110 Nm torque.



79

Remove the jacks and chocks.



WELL DONE! 

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