



How to change front
wheel bearing on **Fiat**
Panda 169 – replacement
guide

VIDEO TUTORIAL



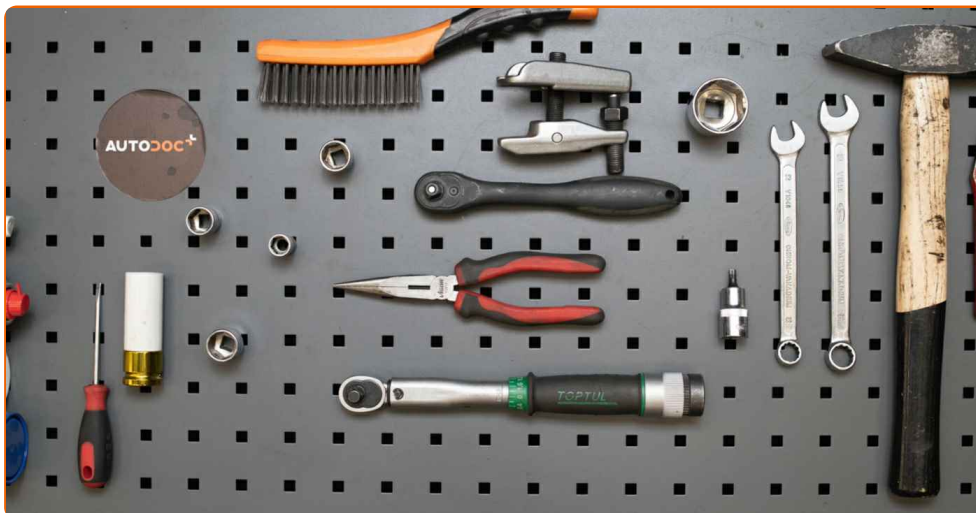
Important!

This replacement procedure can be used for:

FIAT TIPO (160) 1.4, FIAT TIPO (160) 1.4 i.e., FIAT CINQUECENTO (170) 0.9 i.e. S, FIAT CINQUECENTO (170) 0.7 i, FIAT PUNTO (176) 1.1 55, FIAT CINQUECENTO (170) 1.1 Sporting, FIAT TIPO (160) 1.1, FIAT Seicento / 600 Hatchback (187_) 0.9, FIAT Seicento / 600 Hatchback (187_) 1.1, FIAT CINQUECENTO (170) 0.7, FIAT CINQUECENTO (170) 0.9, FIAT Seicento / 600 Hatchback (187_) Elektra (187AEA1A, 187BEA1A), FIAT CINQUECENTO (170) 0.9 i.e., FIAT PANDA (169) 1.1, FIAT PANDA (169) 1.2, (+ 1)

The steps may slightly vary depending on the car design.

**REPLACEMENT: WHEEL BEARING – FIAT PANDA 169.
TOOLS YOU MIGHT NEED:**



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Multipurpose grease
- Torque wrench
- Combination spanner #13
- Combination spanner #15
- HEX bit No.H5.
- Drive socket # 12
- Drive socket # 16
- Drive socket # 17
- Drive socket # 18
- Drive socket # 32
- Wheel impact socket #17
- Bush and bearing driver set
- Ratchet wrench
- Tap wrench
- Hammer
- Flat chisel
- Flat Screwdriver
- Rubber mallet
- Ball joint puller
- Vice
- Crow bar
- Wheel chock

BUY TOOLS

Replacement: wheel bearing – Fiat Panda 169. Tip from AUTODOC:

- Do not re-use the bearing assembly of your Fiat Panda 169 car.
- The wheel hub bearing replacement procedure is identical for both wheels on the same axle.
- Please note: all work on the car – Fiat Panda 169 – 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.



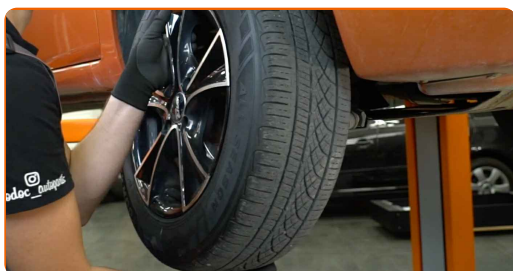
4 Unscrew the wheel bolts.



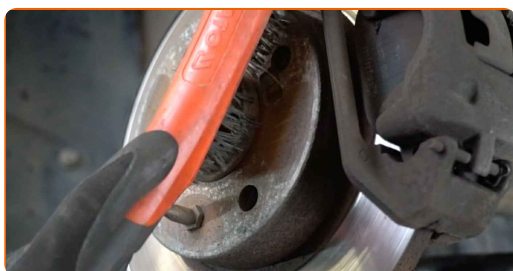
AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.
Fiat Panda 169

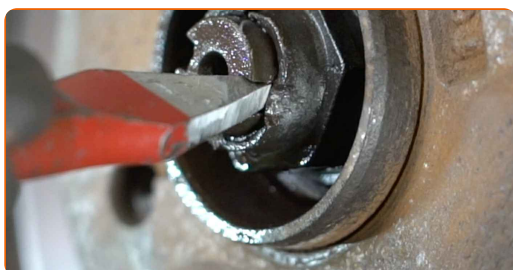
5 Remove the wheel.



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



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



8

Install the wheel.



AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. Fiat Panda 169

9

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



10

Lower the car.



11

Loosen the fastener of the driveshaft. Use a drive socket #32. Use a tap wrench.



12 Raise the front of the car and secure on supports.



13 Unscrew the wheel bolts. Use wheel impact socket #17.



AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.
Fiat Panda 169

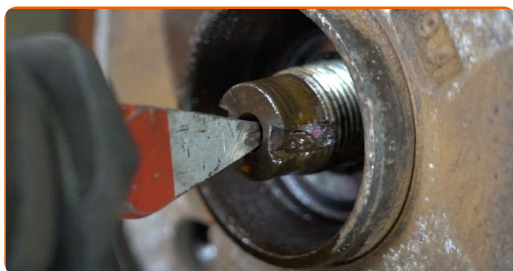
14 Remove the wheel.



15 Remove the fastening nut.

16

Detach the driveshaft from the steering knuckle. Use a flat metal-working chisel. Use a hammer.



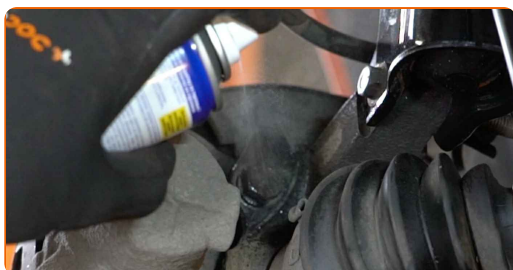
17

Spread the brake pads. Use a crowbar.



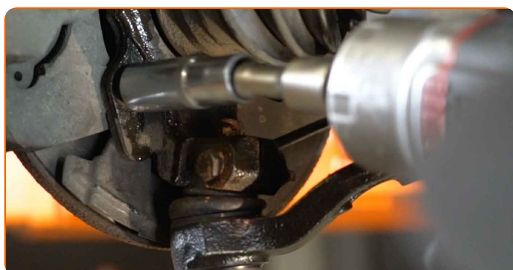
18

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



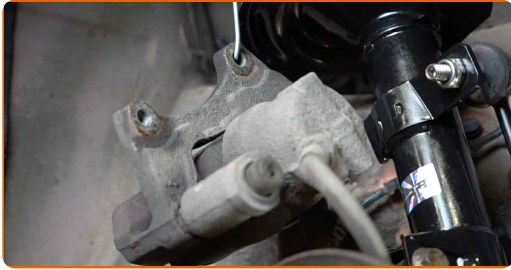
19

Unscrew the caliper bracket fastening. Use a drive socket #18. Use a tap wrench. Use a ratchet wrench.



20

Remove the brake caliper together with its bracket.



Replacement: wheel bearing – Fiat Panda 169. 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.

21

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



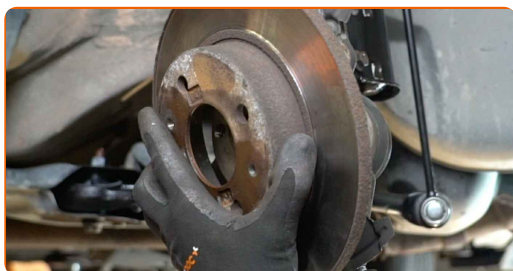
22

Unscrew the brake disc fastening. Use a drive socket #12. Use a ratchet wrench.



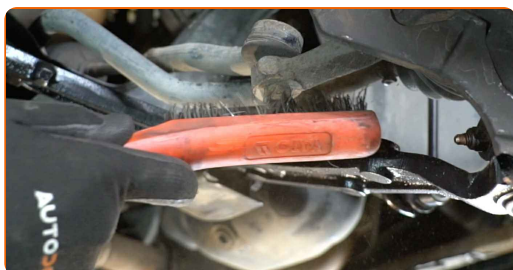
23

Remove the brake disc. Use a rubber mallet.



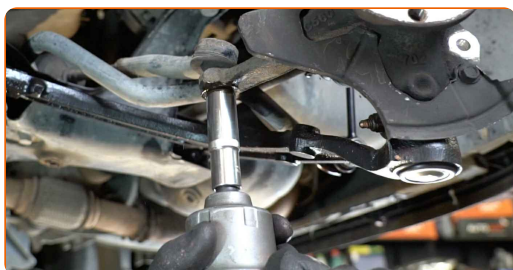
24

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



25

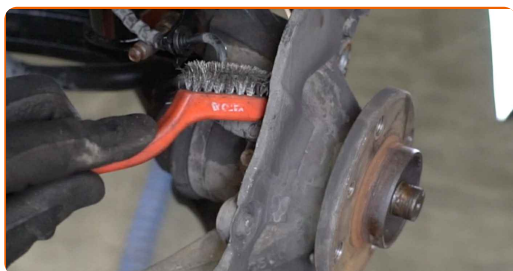
Unscrew the end fastening nut to the steering knuckle. Use a drive socket #17. Use a ratchet wrench.



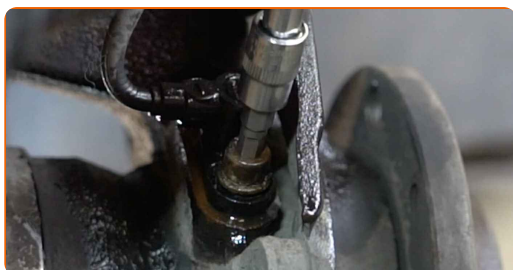
26 Disconnect the tie rod end from the steering knuckle. Use a ball joint puller.



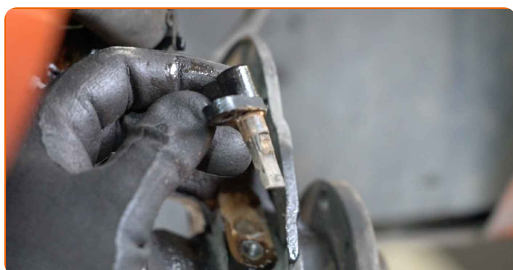
27 Clean the ABS sensor mounting seat. Use a wire brush. Use WD-40 spray.



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

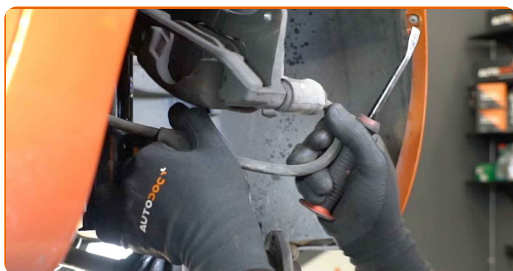


29 Disconnect the ABS sensor.



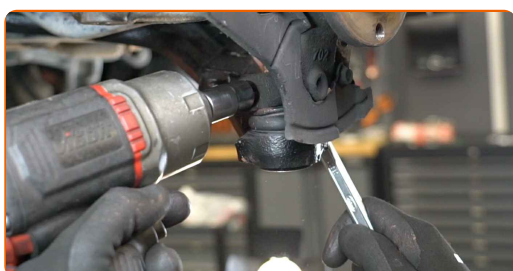
30

Disconnect the wiring and the brake hose from the bracket on the shock strut. Use a crowbar.



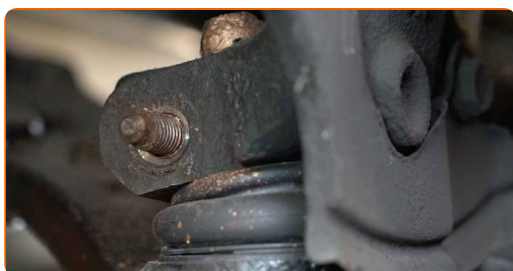
31

Unscrew the fastener connecting the ball joint to the steering knuckle. Use a combination spanner #13. Use a drive socket #16. Use a ratchet wrench.



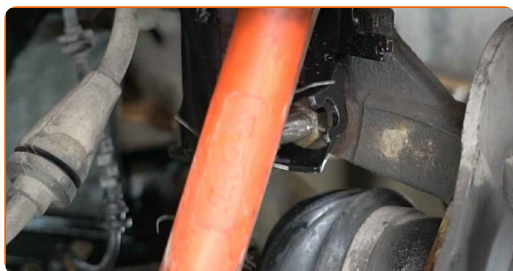
32

Remove the fastening bolt.



33

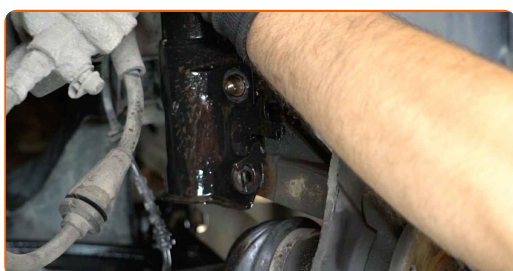
Clean the fasteners connecting the shock strut to the steering knuckle. Use a wire brush. Use WD-40 spray.



- 34 Unscrew the fasteners connecting the suspension strut to the steering knuckle. Use a combination spanner #15. Use a drive socket #17. Use a ratchet wrench.

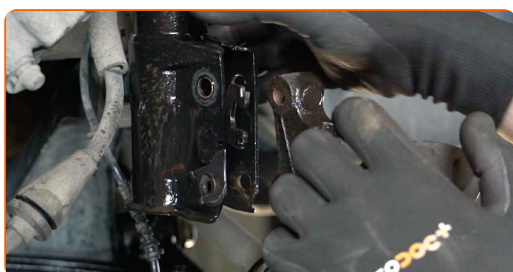


- 35 Remove the fastening bolts.

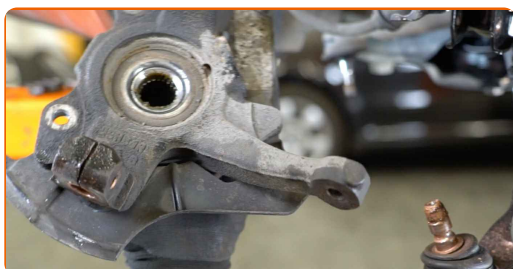


- 36 Detach the driveshaft from the steering knuckle.

- 37 Disconnect the steering knuckle from the shock absorber strut.



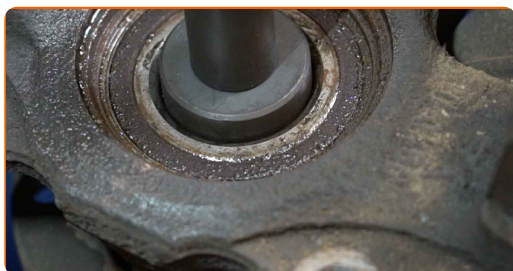
- 38 Remove the steering knuckle together with the hub.



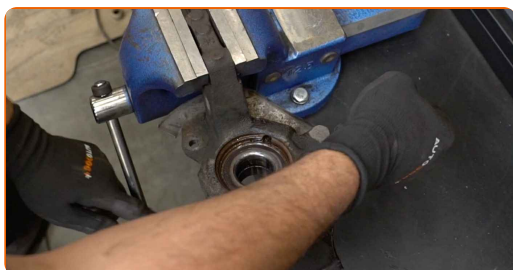
39 Clean the wheel hub fastener. Use a wire brush. Use WD-40 spray.



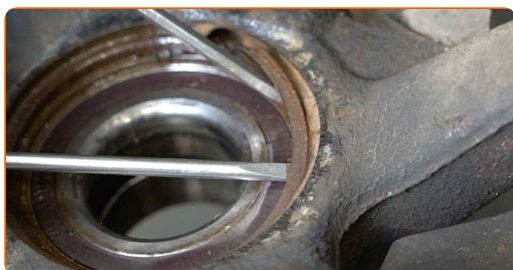
40 Remove the wheel hub from the steering knuckle. Use a bush and bearing driver set.



41 Place the steering knuckle in the vice.



42 Remove the wheel hub bearing retaining ring. Use flat screwdrivers (2 pieces).



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



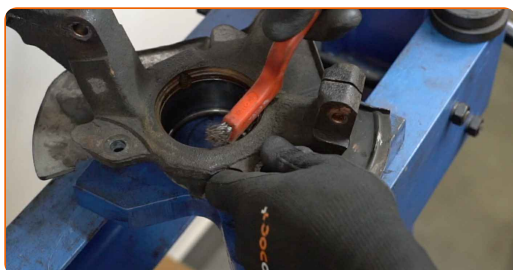
44 Loosen the vice and remove the steering knuckle.



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



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



47

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

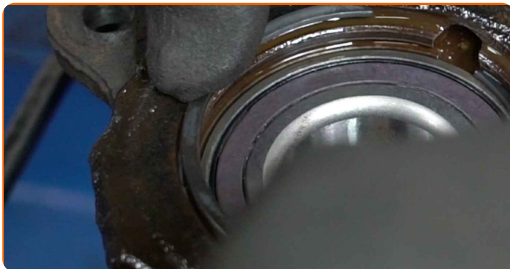


Replacement: wheel bearing – Fiat Panda 169. Professionals recommend:

- 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.

48

Install the wheel hub bearing retaining ring. Use a flat screwdriver.



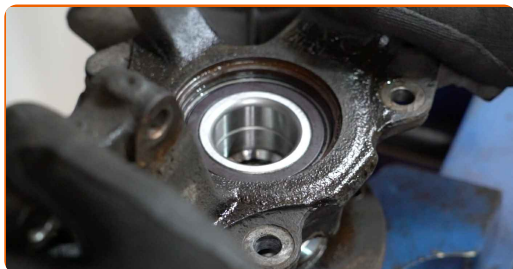
49

Clean the hub. Use WD-40 spray.



50

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

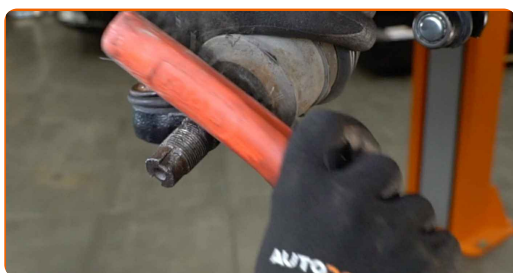


Replacement: wheel bearing – Fiat Panda 169. Tip from AUTODOC:

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

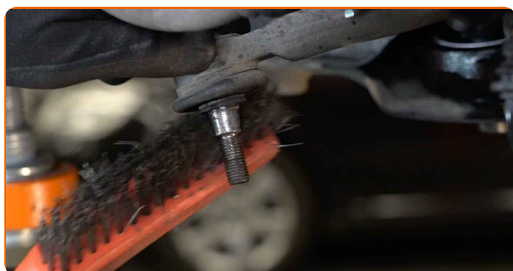
51

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

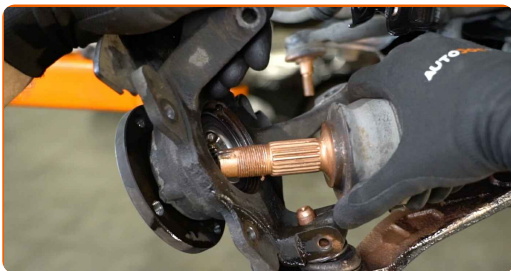


52

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

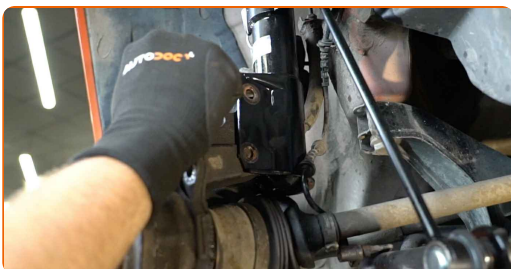


53 Install the steering knuckle with a hub in assembly.

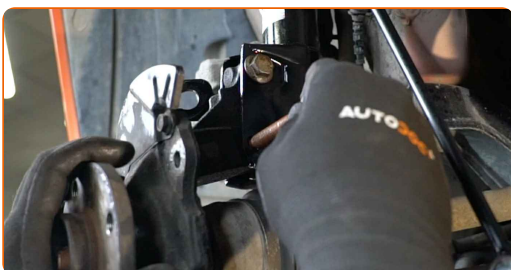


54 Install the drive shaft.

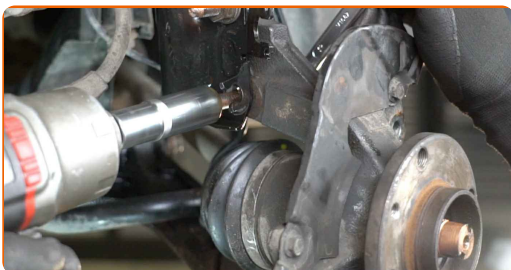
55 Fix the shock absorber strut on the steering knuckle.



56 Install the fastening bolts.

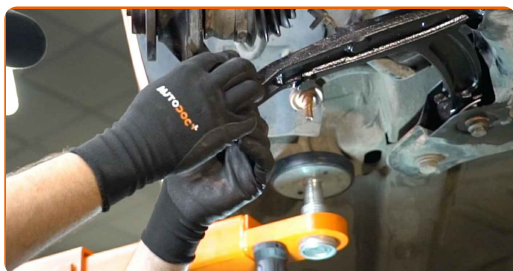


57 Screw in the fasteners connecting the suspension strut to the steering knuckle. Use a combination spanner #15. Use a drive socket #17. Use a ratchet wrench.



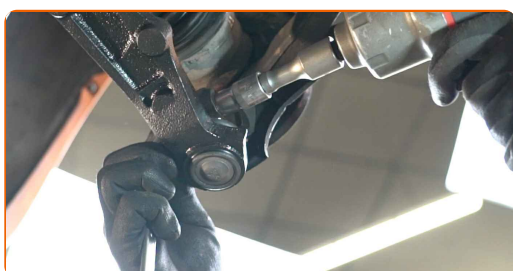
58

Install the fastening bolt.



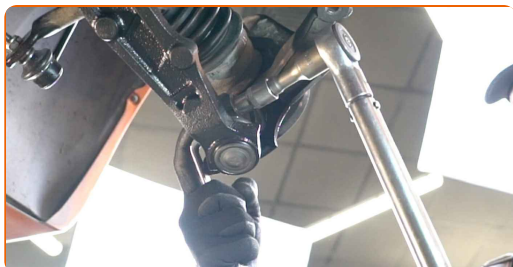
59

Screw the fastener connecting the ball joint to the steering knuckle. Use a combination spanner #13. Use a drive socket #16. Use a ratchet wrench.



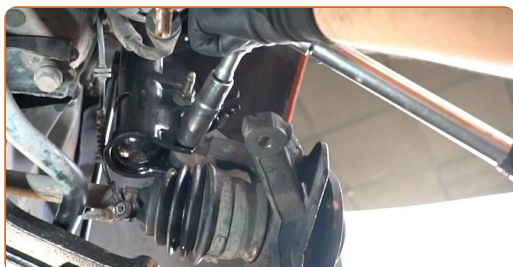
60

Tighten the ball joint fastener. Use a combination spanner #13. Use a drive socket #16. Use a torque wrench. Tighten it to 32 Nm torque.

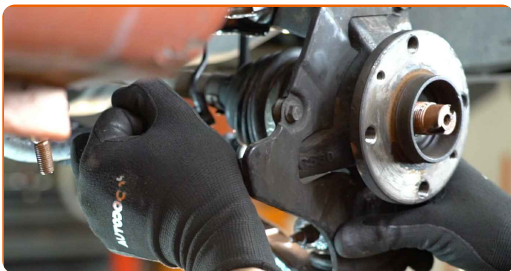


61

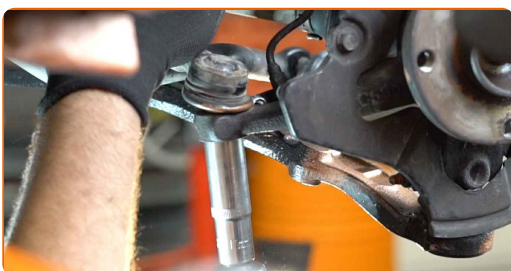
Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a combination spanner #15. Use a drive socket #17. Use a torque wrench. Tighten it to 75 Nm torque.



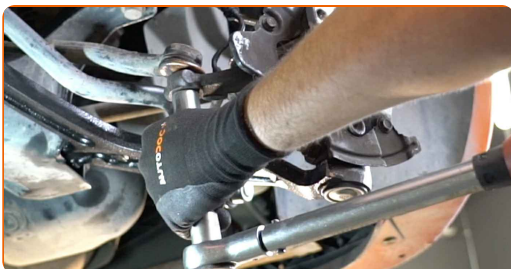
62 Connect the tie rod end to the steering knuckle.



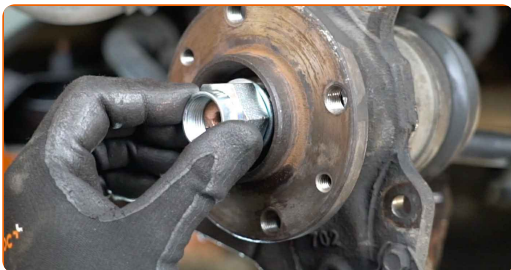
63 Screw on the fastening nut that connects the tie rod end to the steering knuckle. Use a drive socket #17. Use a ratchet wrench.



64 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 40 Nm torque.



65 Install the fastening nut.



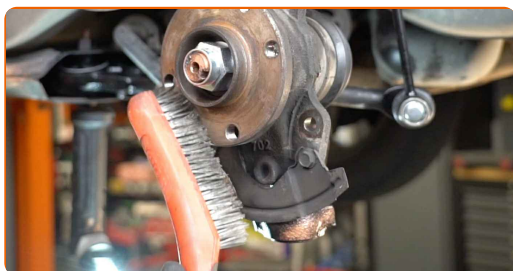
66

Screw the nut of the drive shaft. Use a drive socket #32. Use a ratchet wrench.



67

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



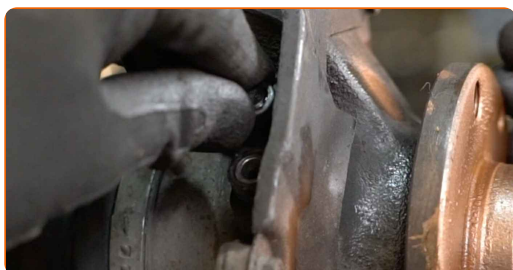
68

Treat the ABS sensor fastener. Use a multipurpose grease.

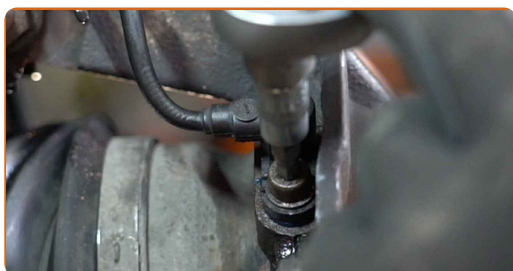


69

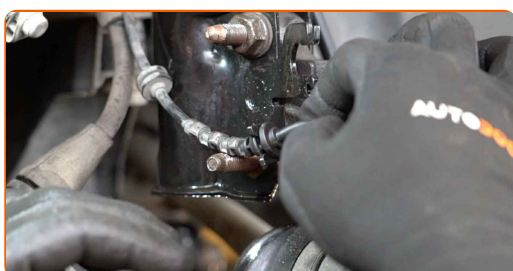
Connect the ABS sensor.



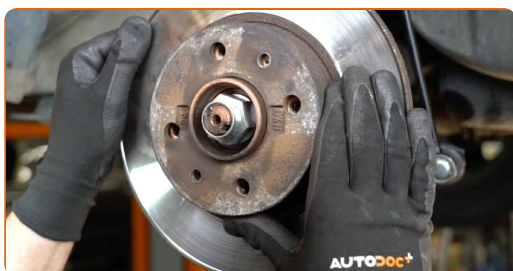
- 70 Tighten the fastener that connects the ABS sensor to the steering knuckle. Use HEX No.H5. Use a torque wrench. Tighten it to 7 Nm torque.



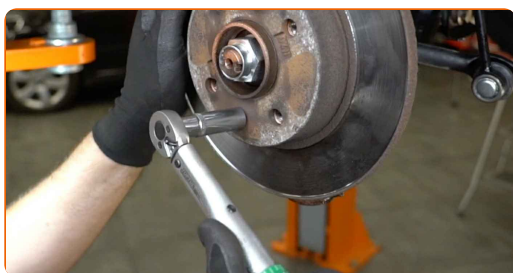
- 71 Connect the fastener of the ABS sensor cable to the shock absorber strut. Fasten the brake hose on the strut.



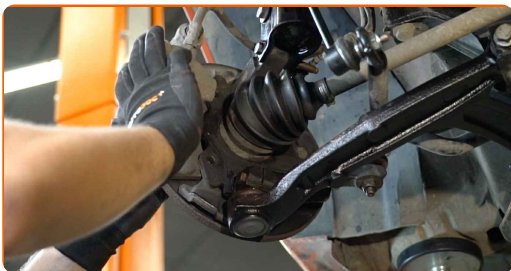
- 72 Install the brake disc.



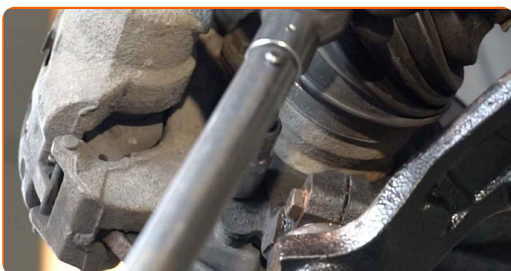
- 73 Tighten the brake disc fastening. Use a drive socket #12. Use a torque wrench. Tighten it to 9 Nm torque.



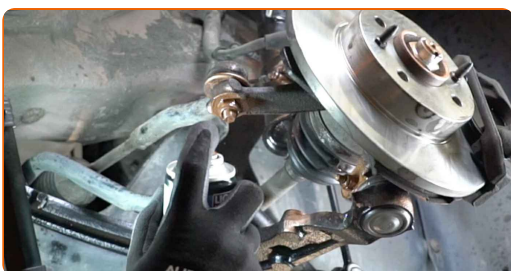
74 Install the brake caliper together with its bracket.



75 Tighten the brake caliper bracket. Use a drive socket #18. Use a torque wrench. Tighten it to 55 Nm torque.



76 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.

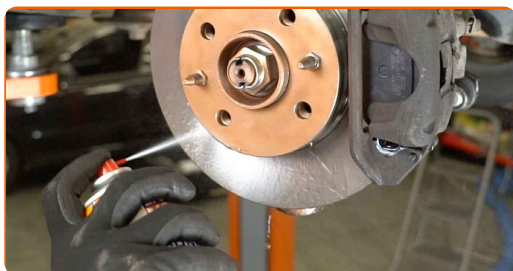


77 Treat the surface where the brake disc contacts the wheel rim. Use copper grease.



78

Clean the brake disk surface. Use a brake cleaner.

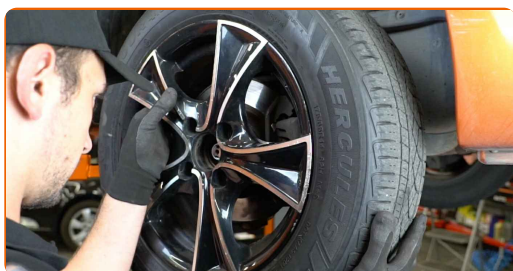


AUTODOC recommends:

- Replacement: wheel bearing – Fiat Panda 169. After applying the spray, wait a few minutes.

79

Install the wheel.



AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. Fiat Panda 169

80

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

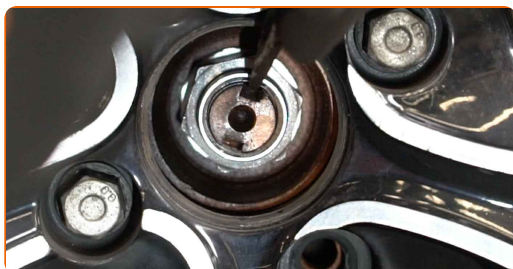


81 Lower the car.

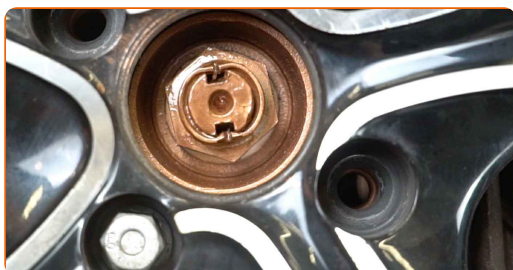
82 Tighten the drive shaft nut. Use a drive socket #32. Use a torque wrench. Tighten it to 185 Nm torque.



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



84 Treat the CV axle fastener. Use copper grease.



85 Tighten the wheel bolts using a criss-cross pattern. Use wheel impact socket #17. Use a torque wrench. Tighten it to 98 Nm torque.



86

Remove the jacks and chocks.



WELL DONE! 

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