



How to change front  
wheel bearing on **Audi**  
**A4 B7 Avant** –  
replacement guide

## VIDEO TUTORIAL



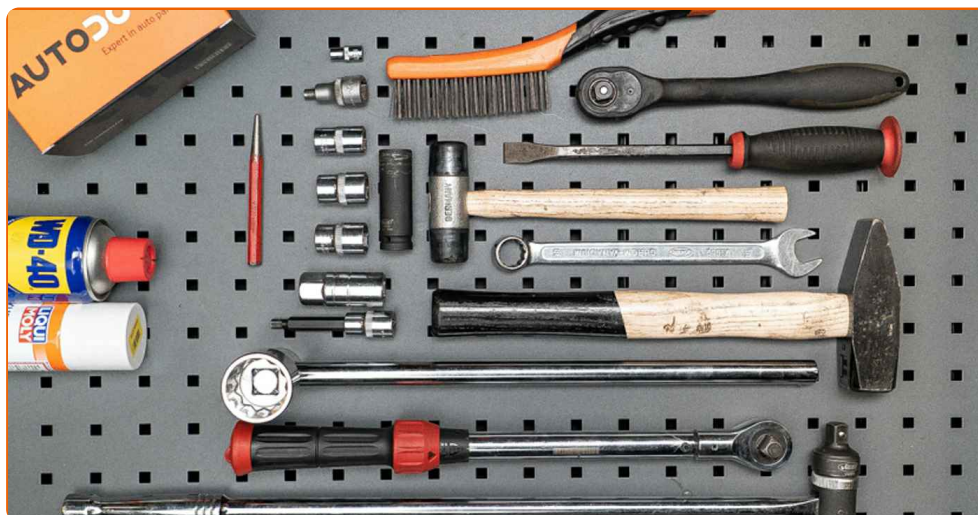
### **i Important!**

This replacement procedure can be used for:

AUDI A8 (4D2, 4D8) 3.7, AUDI A8 (4D2, 4D8) 2.8, AUDI A8 (4D2, 4D8) 2.8 quattro, AUDI A6 Saloon (4B2, C5) 1.8 T, AUDI A8 (4D2, 4D8) 2.5 TDI, AUDI A6 Saloon (4B2, C5) 1.8 T quattro, AUDI A8 (4D2, 4D8) 2.5 TDI quattro, AUDI A6 Avant (4B5, C5) 1.8 T, AUDI A6 Avant (4B5, C5) 1.8 T quattro, AUDI A8 (4D2, 4D8) 4.2 quattro, AUDI A8 (4D2, 4D8) 3.7 quattro, AUDI A6 Saloon (4B2, C5) 2.4, AUDI A6 Avant (4B5, C5) 2.4, AUDI A6 Saloon (4B2, C5) 4.2 quattro, AUDI A6 Avant (4B5, C5) 4.2 quattro, (+ 100)

The steps may slightly vary depending on the car design.

## REPLACEMENT: WHEEL BEARING – AUDI A4 B7 AVANT. TOOLS YOU NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Multipurpose grease
- Sealant
- Combination spanner #16
- Combination spanner #18
- Drive socket # 13
- Drive socket # 16
- Drive socket # 18
- Drive socket # 21
- XZN socket bit # 12
- HEX bit No.H17.
- Torx bit T30
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Flat Screwdriver
- Bush and bearing driver set
- Pin punch
- Hammer
- Flat chisel
- Crow bar
- Tap wrench
- Rubber mallet
- Wheel chock

**BUY TOOLS**

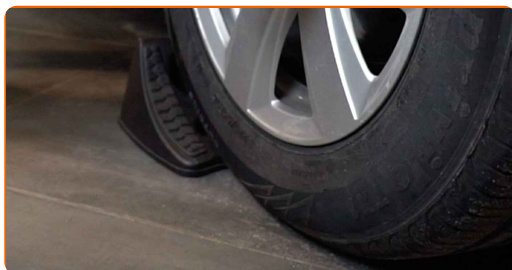
### Replacement: wheel bearing – Audi A4 B7 Avant. AUTODOC experts recommend:

- Do not re-use the bearing assembly of your Audi A4 B7 Avant car.
- The wheel hub bearing replacement procedure is identical for both wheels on the same axle.
- All work should be done with the engine stopped.

## REPLACEMENT: WHEEL BEARING – AUDI A4 B7 AVANT. RECOMMENDED SEQUENCE OF STEPS:

1

Secure the wheels with chocks.



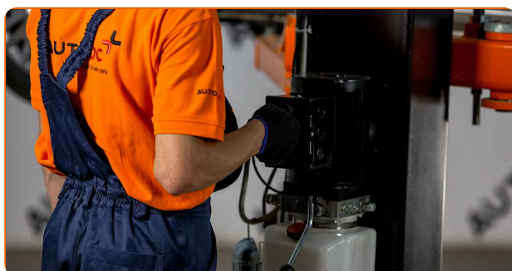
2

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 – Audi A4 B7 Avant. Tip from AUTODOC:

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

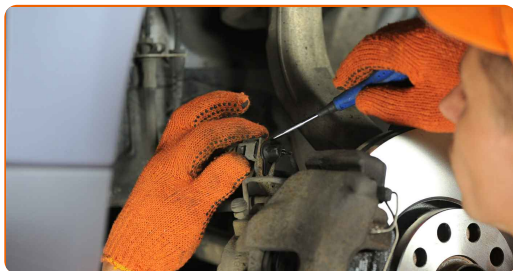
5

Remove the wheel.



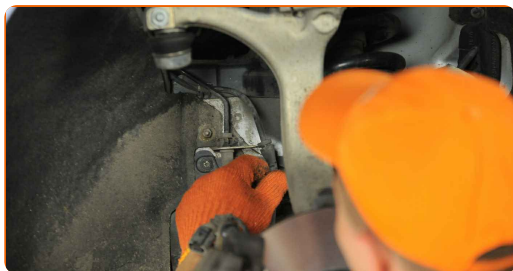
6

Disconnect the ABS sensor. Use a flat screwdriver.

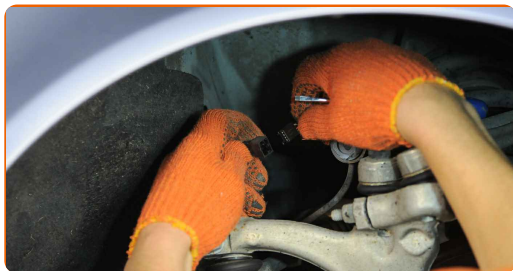


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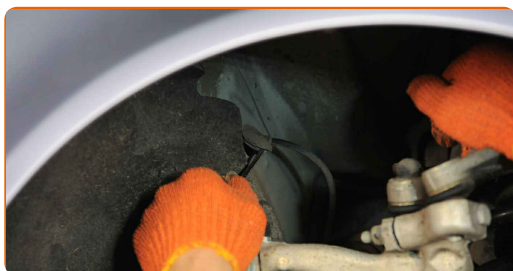
Disconnect the ABS sensor wiring. Use a flat screwdriver.



- 8 Detach the ABS sensor connector. Use a flat screwdriver.



- 9 Disconnect the ABS sensor wiring.



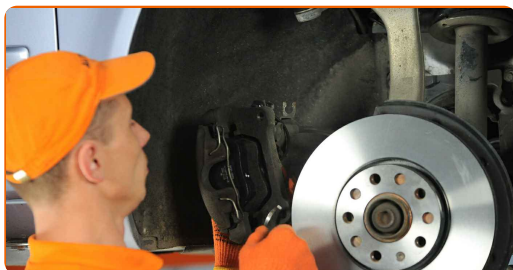
- 10 Clean the brake caliper bracket fasteners. Use a wire brush. Use WD-40 spray.

- 11 Unscrew the caliper bracket fastening. Use a drive socket #21. Use a ratchet wrench. Use a tap wrench.



- 12 Remove the fastening bolts (2 pieces).

- 13 Remove the brake caliper together with its bracket.





### Replacement: wheel bearing – Audi A4 B7 Avant. 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.
- Check the brake caliper bracket, brake caliper guide pins and boots. Clean them. Replace, if necessary.

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.



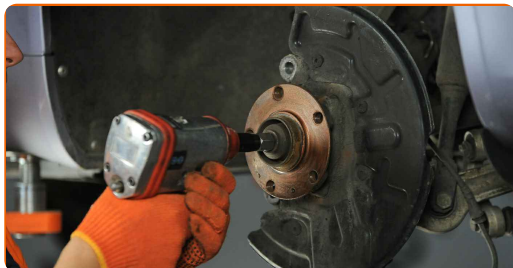
16

Remove the brake disc.

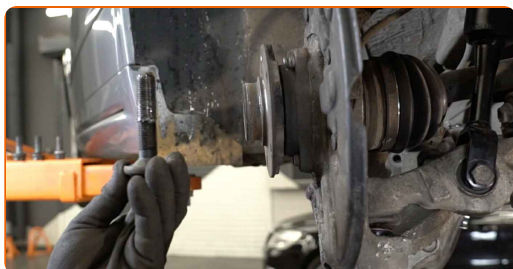


**17** Clean the wheel hub fastener. Use a wire brush. Use WD-40 spray.

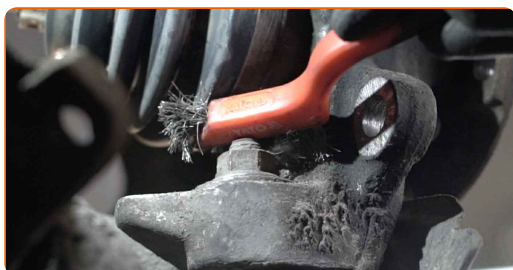
**18** Unscrew the wheel hub axle nut. Use HEX No.H17. Use a ratchet wrench.



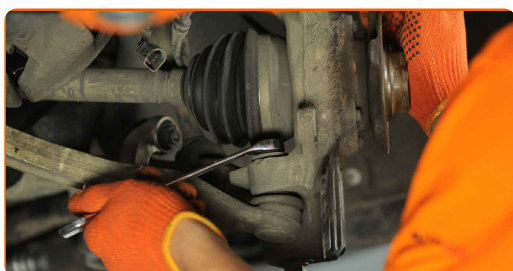
**19** Remove the fastening bolt.



**20** Clean the fastener that connects the ball joint to the steering knuckle. Use a wire brush. Use WD-40 spray.



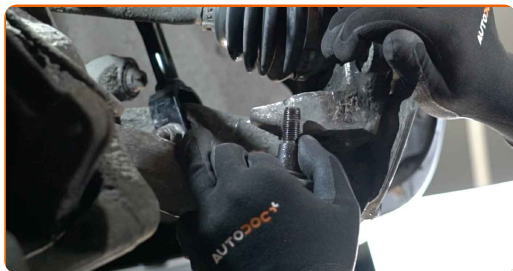
**21** Unscrew the ball joint fastening to the steering knuckle. Use a combination spanner #18.





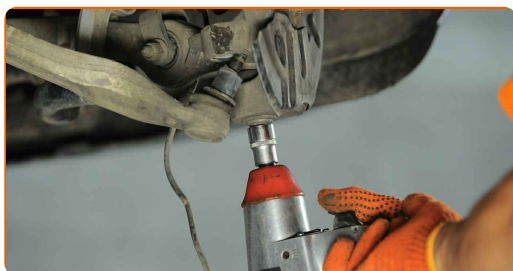
22

Disconnect the lower arm from the steering knuckle. Use a crowbar. Use a rubber mallet.



23

Unscrew the ball joint fastening to the steering knuckle. Use a drive socket #18. Use a ratchet wrench.

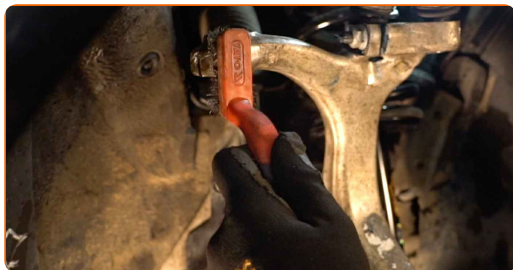


24

Remove the fastening nut. Use a rubber mallet.

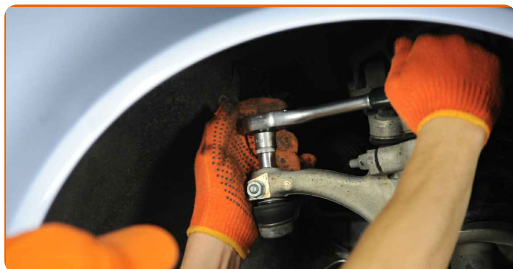
25

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



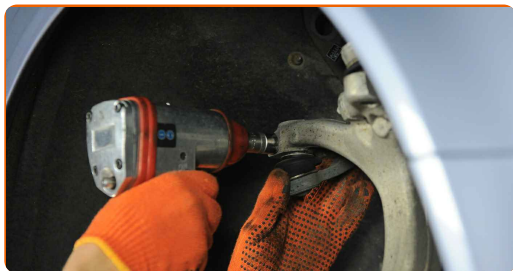
26.1

Unscrew the end fastening nut to the steering knuckle. Use a drive socket #13.



26.2

Use a drive socket #16. Use a ratchet wrench.



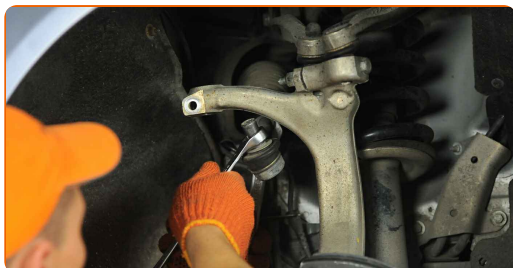
27

Remove the fastening bolt. Use a pin punch. Use a hammer.



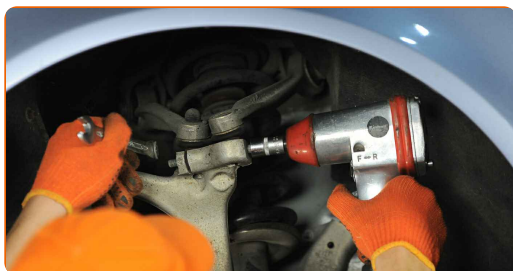
28

Disconnect the tie rod end from the steering knuckle. Use a flat metal-working chisel. Use a hammer.



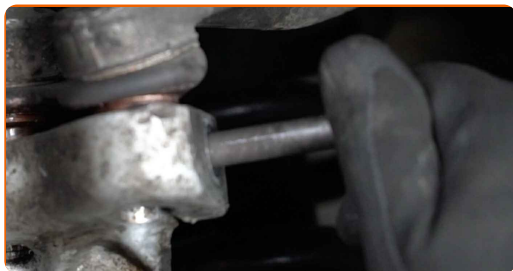
29

Unscrew the upper arm fastenings. Use a combination spanner #16. Use a drive socket #16. Use a ratchet wrench.



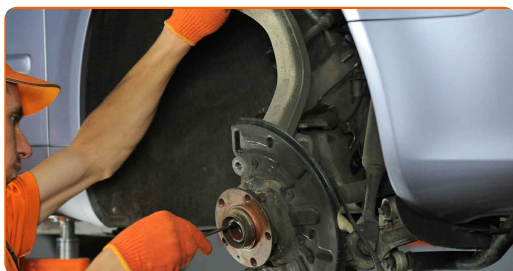
30

Remove the fastening bolt. Use a pin punch. Use a hammer.



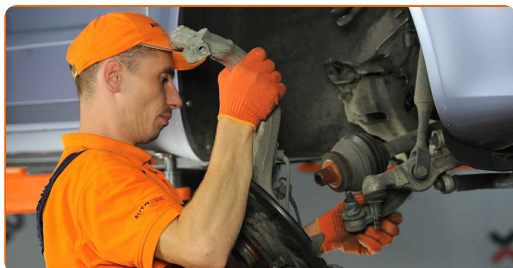
31

Detach the upper control arm from the steering knuckle. Use a flat metal-working chisel. Use a hammer.



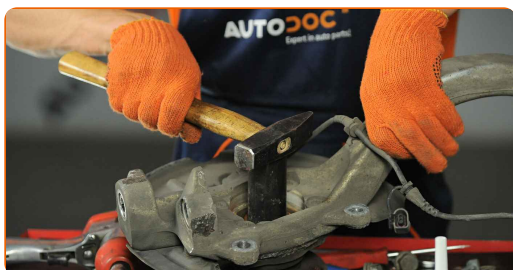
32

Remove the steering knuckle together with the hub. Use a flat screwdriver.



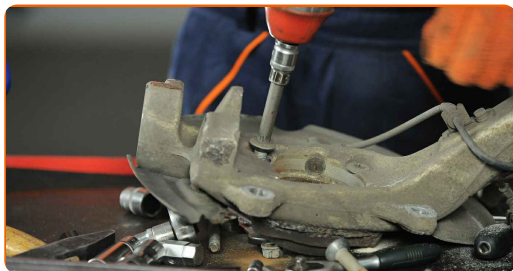
33

Press the wheel hub out from the tapered roller bearing. Use a bush and bearing driver set. Use a hammer.



34

Unscrew the hub bearing fastening to the steering knuckle. Use XZN #12. Use a ratchet wrench.

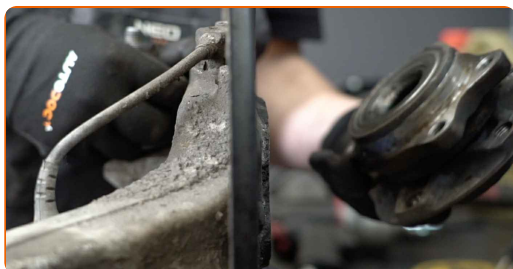


35

Remove the fastening bolts (4 pieces).

36

Remove the hub bearing mounting. Use a hammer.

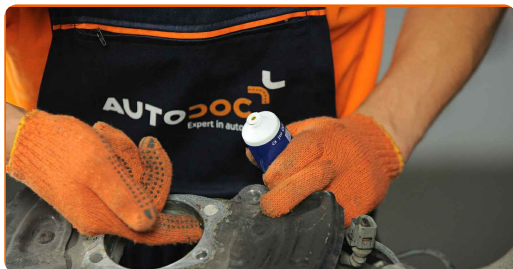


37

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

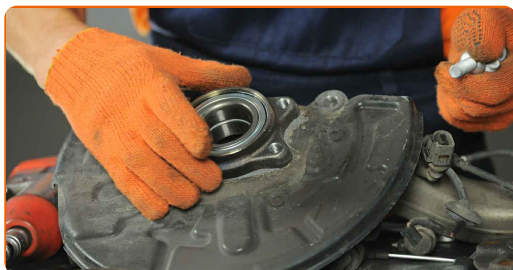
38

Apply special grease to the bearing assembly mounting seat. Use a multipurpose grease.



39

Install a new hub bearing and secure it.



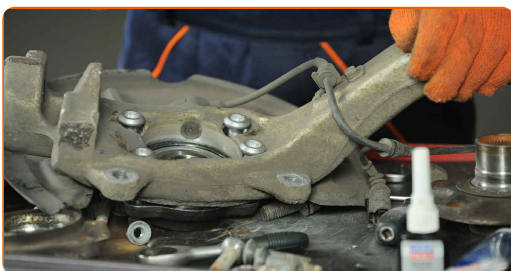
40

Treat the fasteners of the wheel hub bearing. Use a sealant.



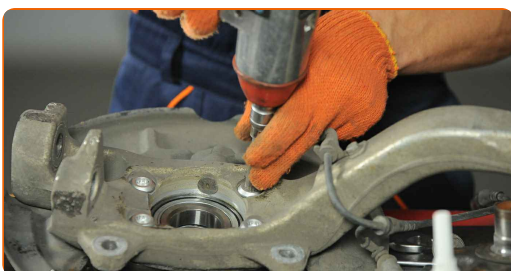
41

Install the fastening bolts (4 pieces).



42

Tighten the fastener of the wheel hub bearing. Use XZN #12. Use a torque wrench. Tighten it to 80 Nm torque.+90°



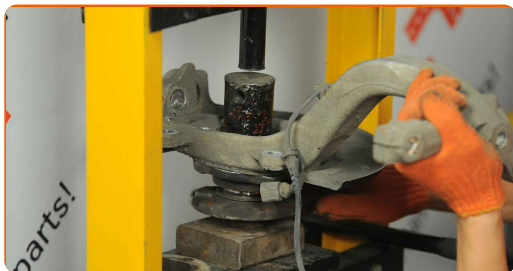
Replacement: wheel bearing – Audi A4 B7 Avant. AUTODOC recommends:

- Important! Be sure to use new fasteners.
- Check to make sure the wheel hub bearing is positioned correctly. Avoid its misalignment.



43

Press the wheel hub into the bearing inner race. Use a bush and bearing driver set.

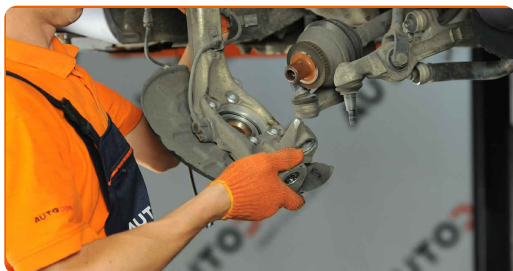


Replacement: wheel bearing – Audi A4 B7 Avant. Professionals recommend:

- Stop pressing on the surface of the bearing immediately after it has been fitted into its mounting seat.

44

Install the steering knuckle with a hub in assembly.

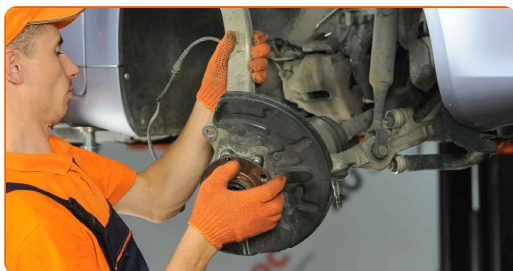


45

Install the fastening nut.

46

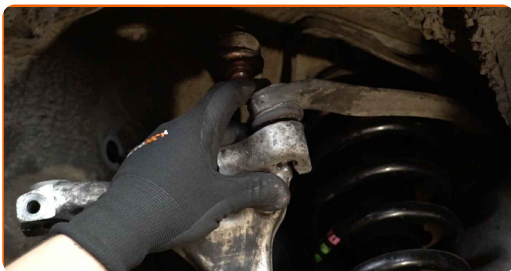
Connect the lower arm to the steering knuckle.





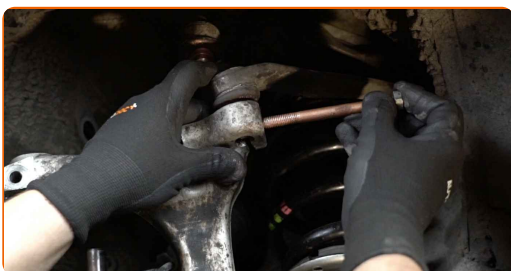
47

Attach the upper control arm to the steering knuckle. Use a rubber mallet.



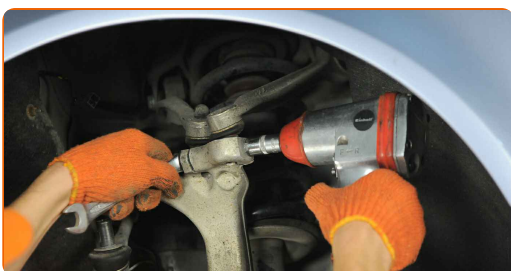
48

Install the fastening bolt. Use a hammer. Use a pin punch.



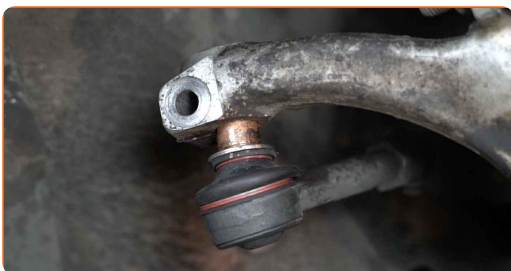
49

Tighten the upper arm fastenings. Use a combination spanner #16. Use a drive socket #16. Use a torque wrench. Tighten it to 40 Nm torque.



50

Connect the tie rod end to the steering knuckle. Use a rubber mallet.

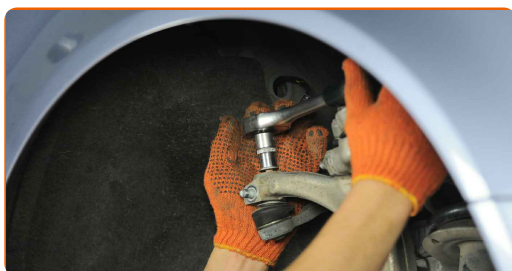


51

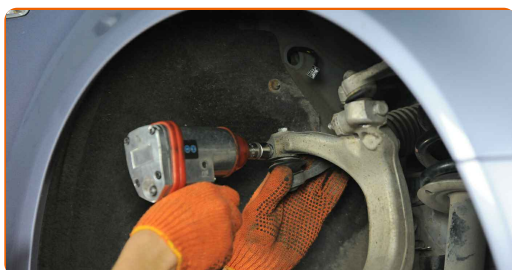
Install the fastening bolt. Use a hammer. Use a pin punch.



- 52** Tighten the fastening nut connecting the tie rod end to the steering knuckle. Use a drive socket #13. Use a torque wrench. Tighten it to 7 nm torque.



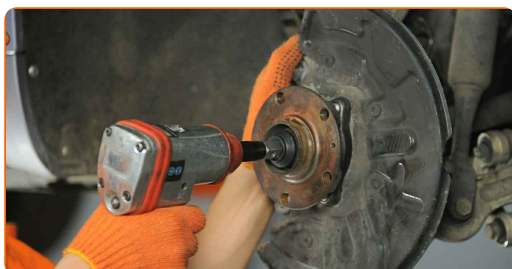
- 53** Tighten the fastening nut connecting the tie rod end to the steering knuckle. Use a drive socket #16. Use a torque wrench. Tighten it to 45 nm torque.



- 54** Install the fastening bolt.



- 55** Tighten the hub. Use HEX No.H17. Use a torque wrench. Tighten it to 115 Nm torque.+180°

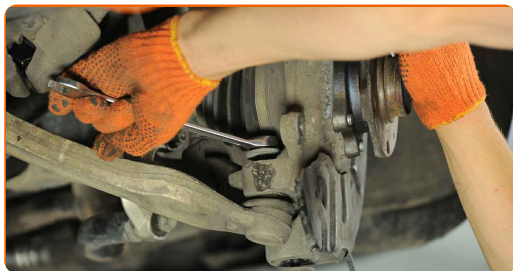


### AUTODOC recommends:

- Important! Be sure to use new fasteners.

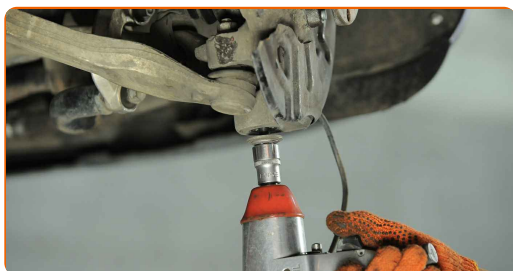
56

Tighten the ball joint fastener. Use a drive socket #18. Use a torque wrench. Tighten it to 110 Nm torque.



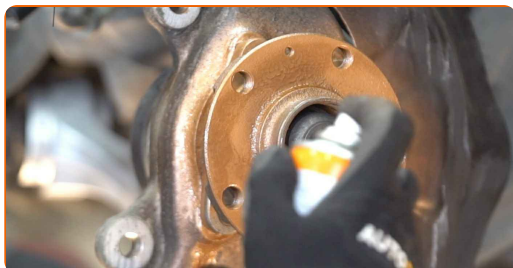
57

Tighten the ball joint fastener. Use a combination spanner #18. Use a torque wrench. Tighten it to 110 Nm torque.



58

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



59

Install the brake disc.



60

Tighten the brake disc fastening. Use Torx T30. Use a torque wrench. Tighten it to 5 Nm torque.

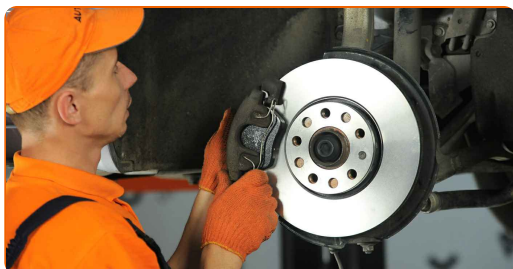


61

Clean the mounting seats of the caliper and its bracket. Use a wire brush. Use WD-40 spray.

62

Install the brake caliper together with its bracket.



63

Treat the fastening bolts. Use a sealant.

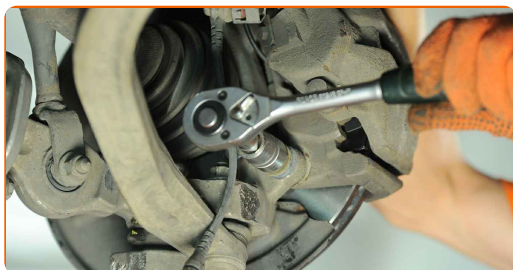


64

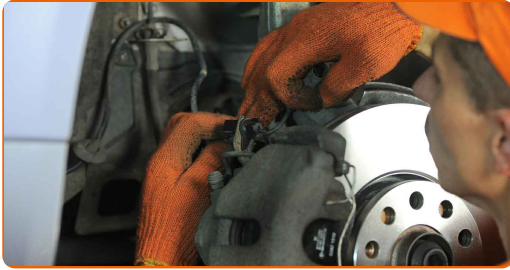
Install the fastening bolts (2 pieces).

65

Tighten the brake caliper bracket. Use a drive socket #21. Use a torque wrench. Tighten it to 190 Nm torque.



**66** Connect the ABS sensor.



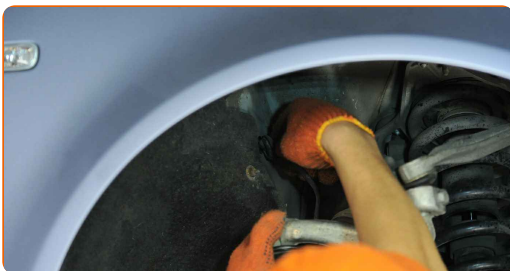
**67** Connect the ABS sensor wiring.



**68** Attach the ABS sensor connector.

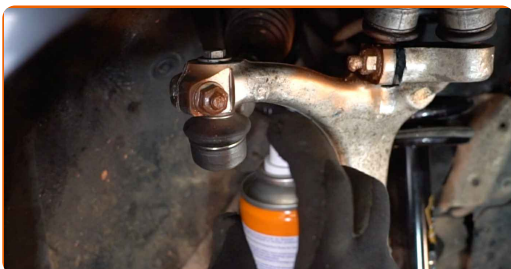


**69** Connect the ABS sensor wiring. Use a flat screwdriver.

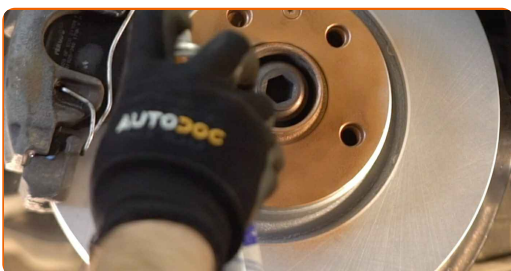




- 70 Treat the fastener connecting the tie rod end to the steering knuckle. Treat the fasteners of the ball joint. Treat the fasteners connecting the control arm to the steering knuckle. Use copper grease.



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



- 72 Clean the brake disk surface. Use a brake cleaner.



### Replacement: wheel bearing – Audi A4 B7 Avant. Tip:

- After applying the spray, wait a few minutes.



73

Install the wheel.



### AUTODOC recommends:

- Important! Hold the wheel while screwing in the fastening bolts. Audi A4 B7 Avant

74

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



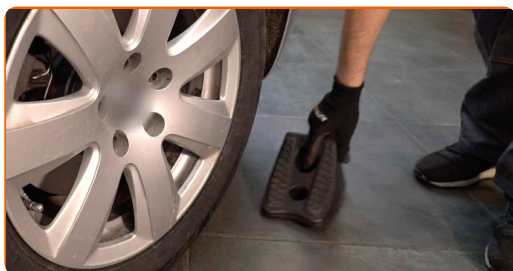
75

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 120 nm torque.



76

Remove the jacks and chocks.



**WELL DONE!** 

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