VIDEO TUTORIAL

## Important!

This replacement procedure can be used for:
AUDI A6 (4F2, C6) 2.0 TDI, AUDI A6 Avant (4F5, C6) 2.0 TDI

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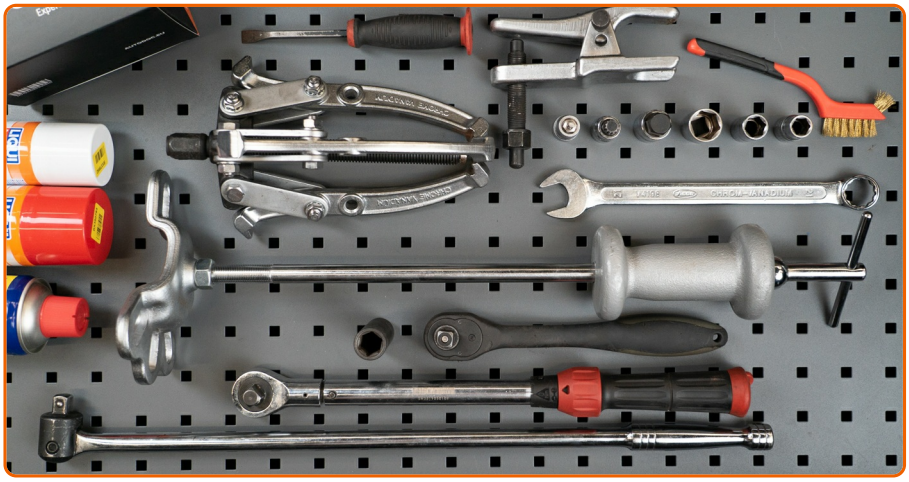
The steps may slightly vary depending on the car design.

# REQUIRED TOOLS:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #21
- Drive socket # 13
- Drive socket # 15
- Drive socket # 21
- XZN socket bit # 12
- HEX bit no.H16.
- Torx bit T30
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Hammer
- Tap wrench
- Flat chisel
- Crow bar
- Vice
- 3-Arm Gear Puller
- Bush and bearing driver set
- Bearing puller
- Hub slide hammer puller
- Ball joint puller
- Hydraulic transmission jack
- Wheel chock

## AUTODOC recommends:

- Do not re-use the bearing assembly of your AUDI A6 C6/4F 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.

## 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 hub fastener. Use HEX No.H16. Use a tap wrench.

4

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

5

Raise the front of the car and secure on supports.

6

Unscrew the wheel bolts.

## AUTODOC recommends:

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

7

Remove the wheel.

8

Disconnect the brake pads wear sensor. Use a crowbar.

## Please note!

- Some cars are not equipped with the brake pad wear sensor.

9

Spread the brake pads. Use a crowbar.

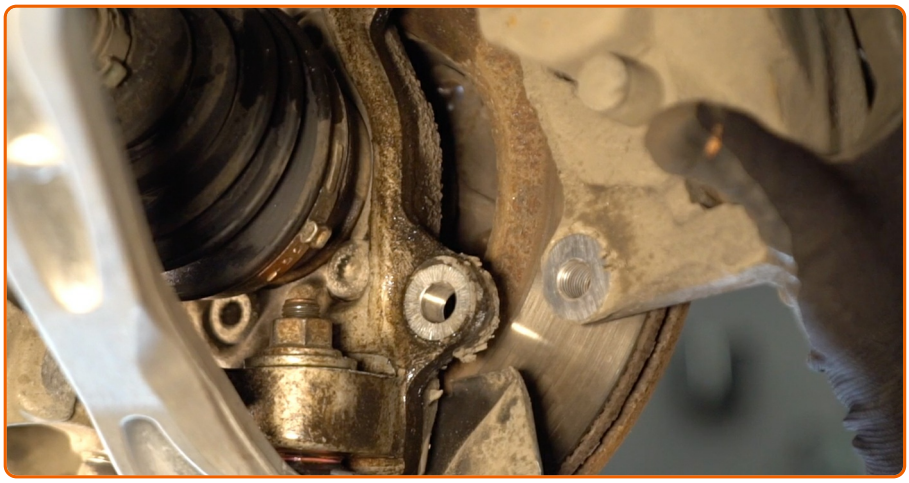
10

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 caliper bracket

13

Disconnect the ABS sensor cable fastener. Use a crowbar.

14

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

15

Remove the brake disc.

16

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

## AUTODOC recommends:

- After applying the spray, wait a few minutes.
- Wear protective goggles.

17

Unscrew the ball joint fastening to the steering knuckle. Use a drive socket #21. Use a tap wrench.

18

Remove the fastening bolt.

19

Disconnect the ball joint from the steering knuckle Use a ball joint puller.

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 #15. Use a ratchet wrench.

22

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

23

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

24

Unscrew the wheel hub axle nut.

25

Remove the fastening bolt.

26

Support the arm. Use a hydraulic transmission jack.

27

Remove the drive shaft from the wheel hub.

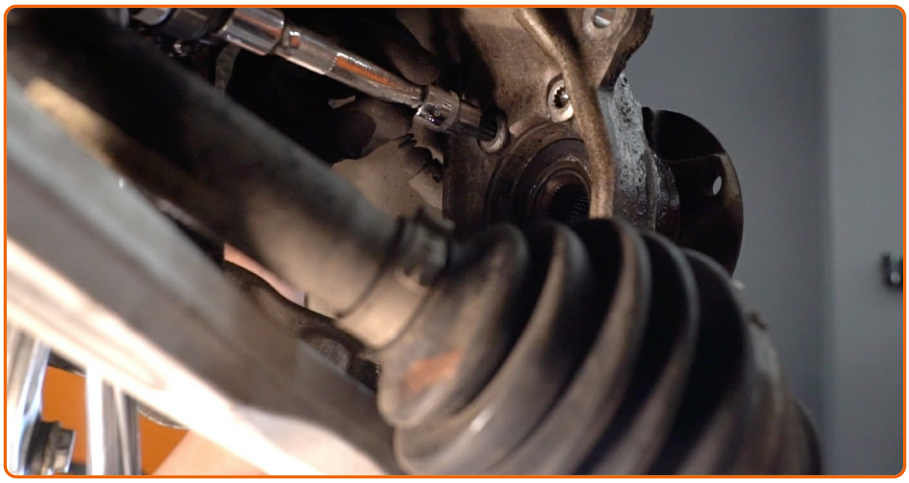
## AUTODOC recommends:

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

28

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

29



Unscrew the hub bearing mounting. Use XZN #12. Use a ratchet wrench. Use a tap wrench.

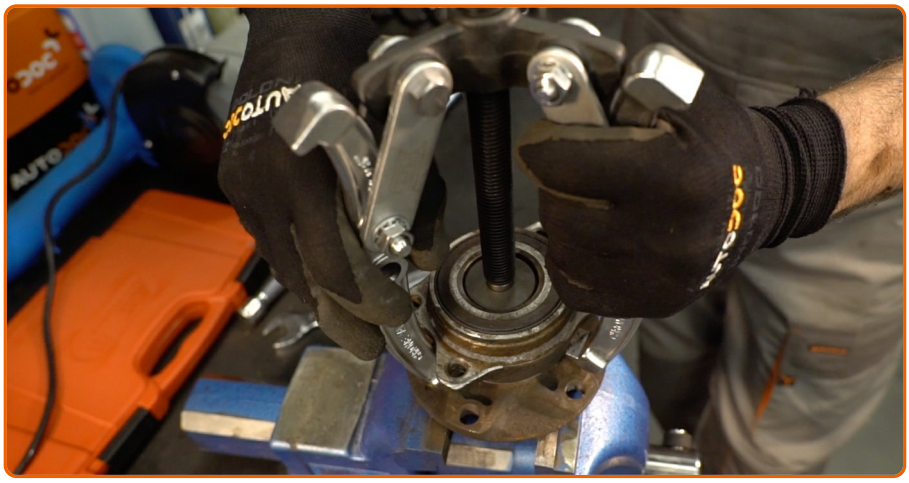
30

Remove the wheel hub together with the bearing. Use the hub slide hammer puller.

31

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

32

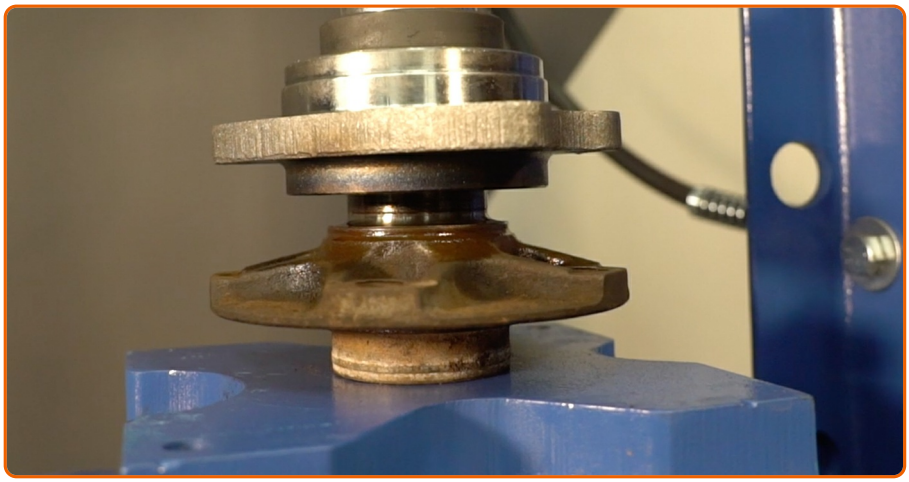


Remove the hub bearing mounting. Use 3-Arm Gear Puller.

33

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

34

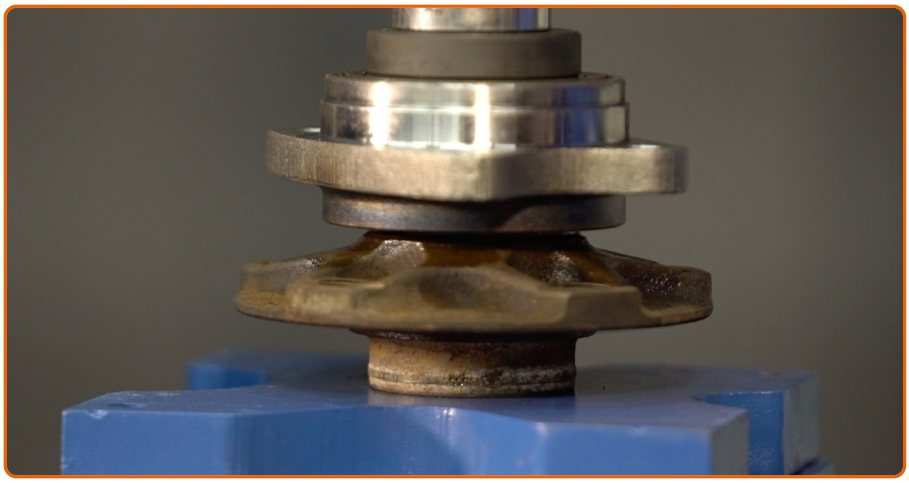


Install a new hub bearing and secure it.

35

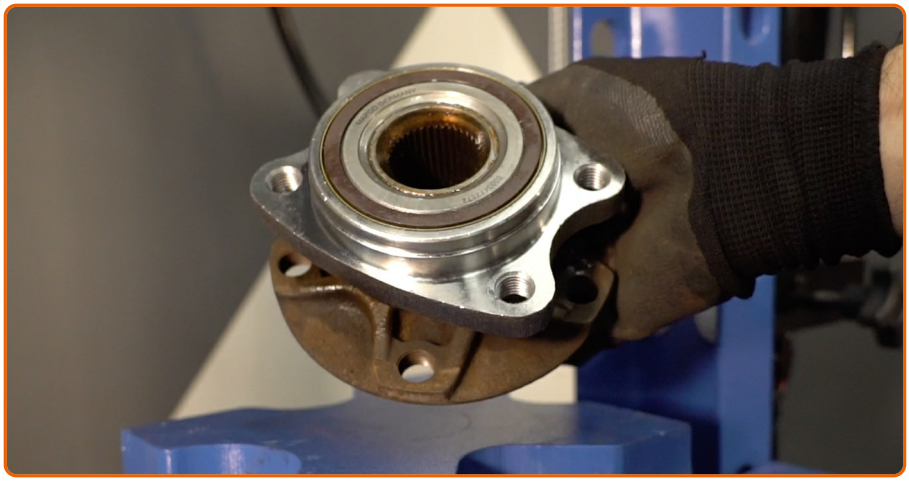
Release the vice and take out the wheel hub together with the bearing.

36



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

37



Adjust the wheel bearing.

## 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.

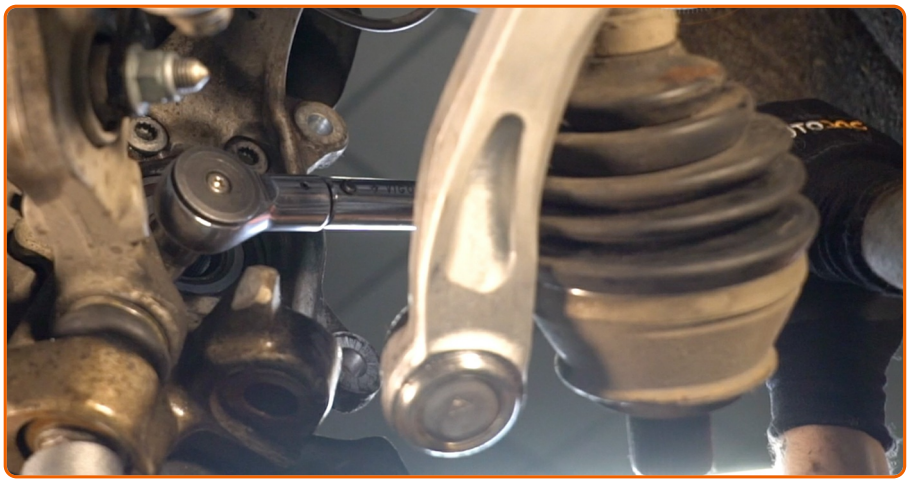
38

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

39

Install the new wheel hub with a bearing.

40



Tighten the fastener of the wheel hub bearing. Use XZN #12. Use a torque wrench. Tighten it to 80 nm torque.

## AUTODOC recommends:

- The wheel bearing unit must not tilt on the axle pin.

41

Remove the support from under the arm.

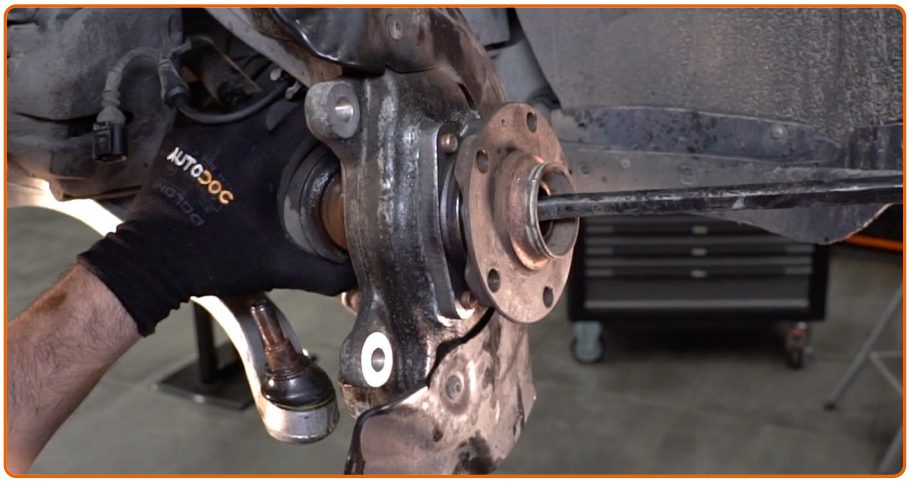
## AUTODOC recommends:

- Lower the hydraulic transmission jack smoothly, without jerks, to avoid damaging assemblies and mechanisms.

42

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

43




Mount the drive shaft into the wheel hub.

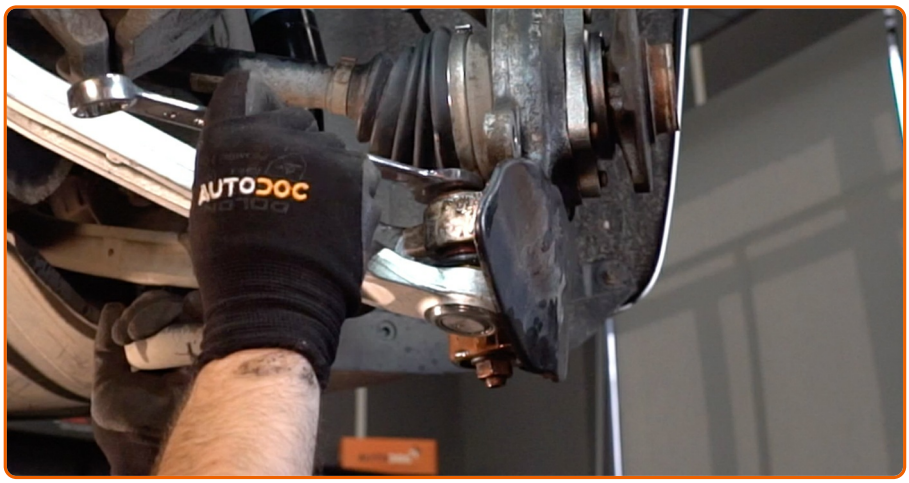
44

Treat all joints of the arm. Use copper grease.

45

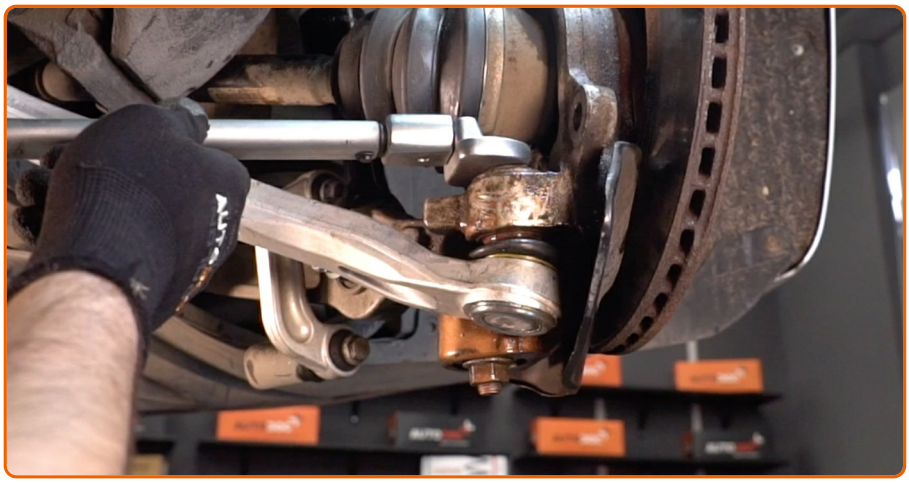
Clean the ball joint mounting seat. Use a wire brush. Use WD-40 spray.

46




Connect the ball joint to the steering knuckle Use a combination spanner #21.

47



Tighten the ball joint fastener. Use a combination spanner #21. Use a torque wrench. Tighten it to 75 Nm torque.

48

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

49

Connect the tie rod end to the steering knuckle.

50

Install the fastening bolts.

51

Screw on the fastening nut that connects the tie rod end to the steering knuckle. Use a drive socket #13. Use a ratchet wrench.

52

Screw on the fastening nut that connects the tie rod end to the steering knuckle. Use a drive socket #15. Use a ratchet wrench.

53

Tighten the fastening nut connecting the tie rod end to the steering knuckle. Use a drive socket #15. Use a torque wrench. Tighten it to 70 nm torque.

54

Install the brake disc.

55

Tighten the brake disc fastening. Use Torx T30. Use a torque wrench. Tighten it to 9 Nm torque.

56

Install the brake caliper bracket

57

Tighten the brake caliper bracket Use a drive socket #21. Use a torque wrench. Tighten it to 75 Nm torque.

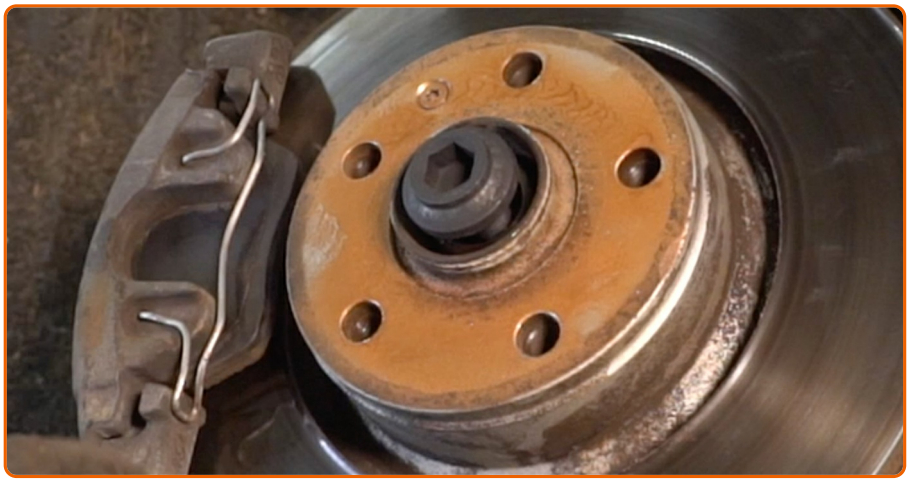
58

Connect the ABS sensor cable fastener.

59

Connect the brake pads wear sensor.

60



Install the fastening bolt.

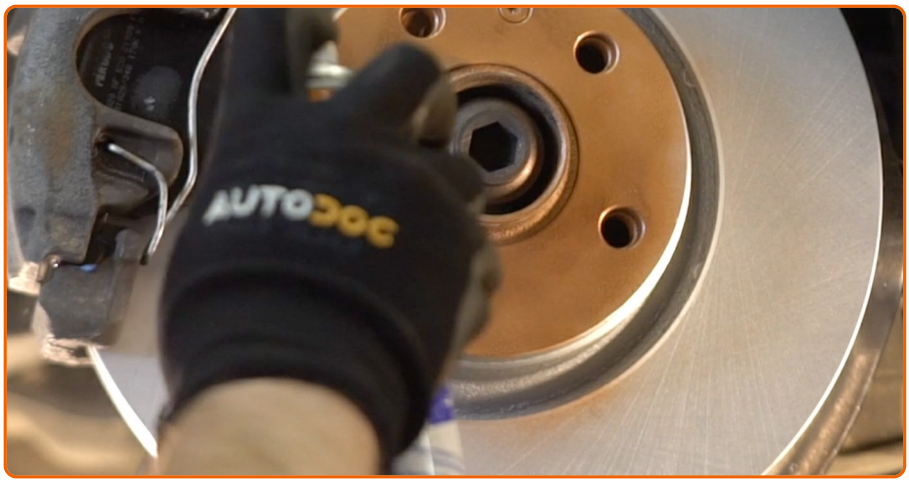
61

Screw the wheel hub axle nut. Use HEX No.H16.

62

Treat the fastener connecting the tie rod end to the steering knuckle. Treat all joints of the arm. Use copper grease.

63



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

64

Clean the brake disk surface. Use a brake cleaner.

## AUTODOC recommends:

- After applying the spray, wait a few minutes.

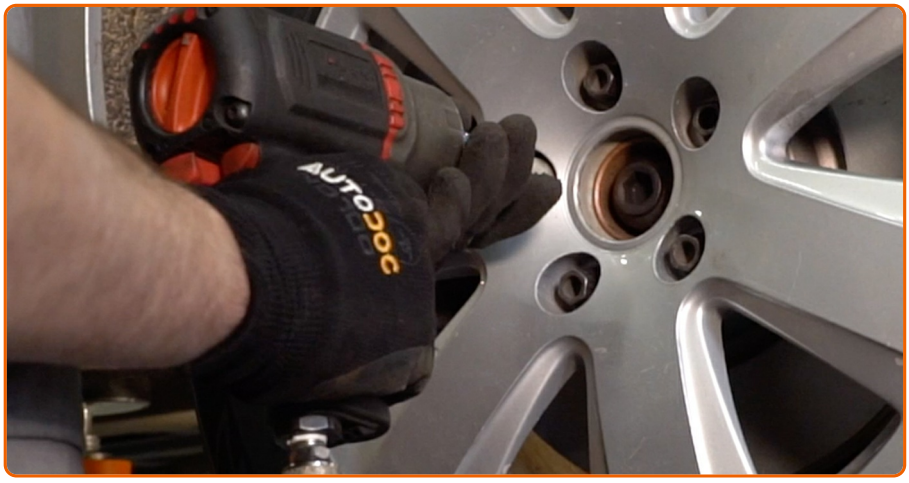
65

Install the wheel.

## AUTODOC recommends:

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

66




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

67

Lower the car.

68

Tighten the bolt connecting the drive shaft to the wheel hub. Use HEX No.H16. Use a torque wrench. Tighten it to 190 nm torque.

69

Tighten the wheel bolts using a criss-cross pattern. Use a torque wrench. Tighten it to 120 Nm torque.

70

Remove the jacks and chocks.

71

Tighten the brake fluid reservoir cap. Close the hood.

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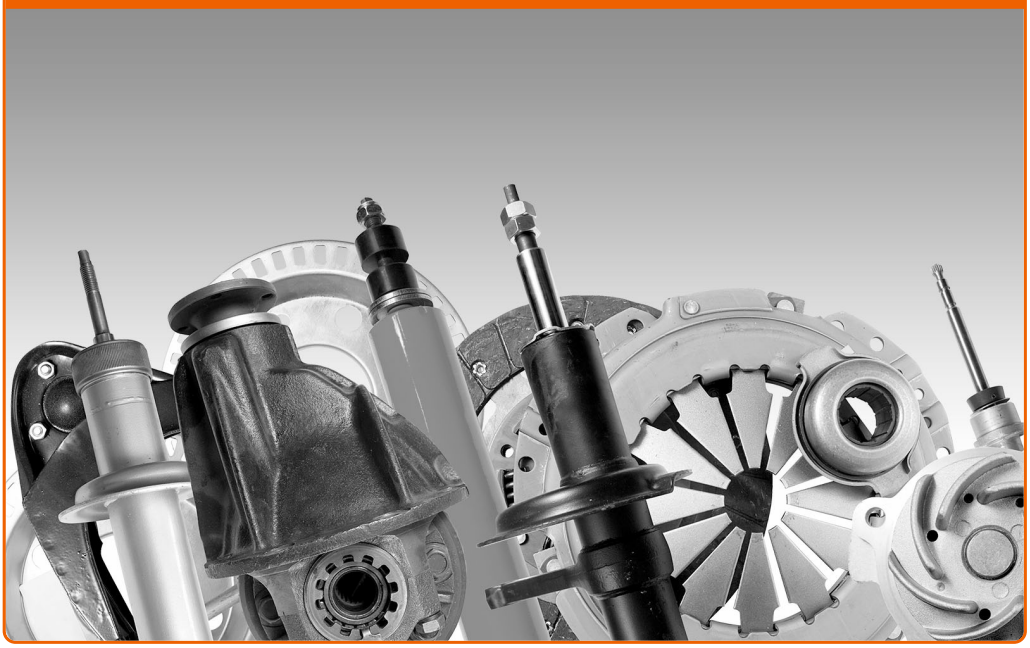

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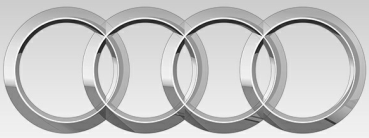

# WHEEL BEARINGS FOR AUDI A6 C6/4F: THE BEST DEALS & OFFERS

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