

## 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:

BMW 6 Coupe (E63) 645Ci 4.4, BMW 6 Coupe (E63) 630i 3.0, BMW 6 Coupe (E63) 650i 4.8, BMW 6 Coupe (E63) 635d 3.0, BMW 6 Coupe (E63) 630i 3.0 (N52B30A, N52B30B, N52B30BF)

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: BMW 5 Saloon (E60) 525d 2.5

## REPLACEMENT: WHEEL BEARING – BMW 6 COUPE (E63). TOOLS YOU NEED:



- Wire brush
- WD-40 spray
- All-purpose cleaning spray
- Brake cleaner
- Copper grease
- Combination spanner #9
- Combination spanner #18
- Drive socket # 10
- Drive socket # 16
- Drive socket # 18
- Drive socket # 21
- HEX bit no.H6.
- Shock absorber socket
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Tap wrench
- Impact screwdriver
- Crow bar
- Hydraulic transmission jack
- Wheel chock

**Buy tools**

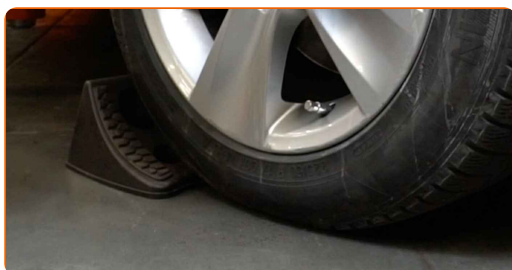
### Replacement: wheel bearing – BMW 6 Coupe (E63). Tip from AUTODOC:

- Do not re-use the bearing assembly of your BMW 6 Coupe (E63) 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 – BMW 6 COUPE (E63). 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 – BMW 6 Coupe (E63). Tip from AUTODOC:

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

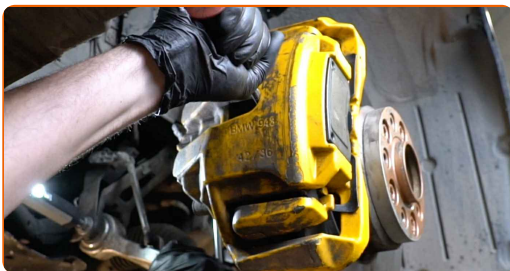
5

Remove the wheel.



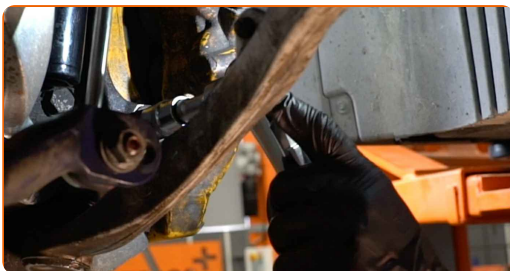
6

Spread the brake pads. Use a crowbar.



7

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



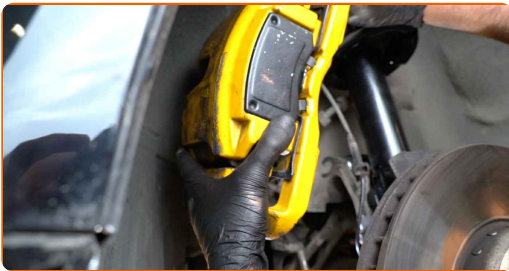
8

Disconnect the brake hose. Use a crowbar.



9

Remove the brake caliper together with its bracket.

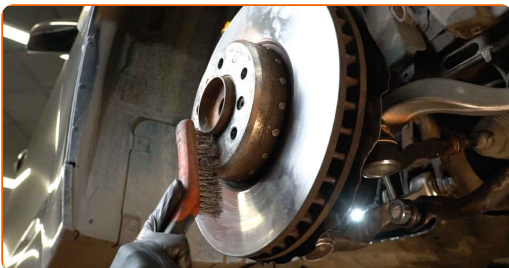


### AUTODOC recommends:

- 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.

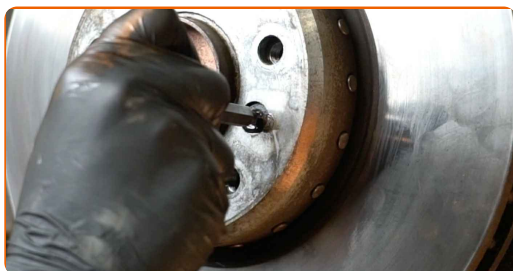
10

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



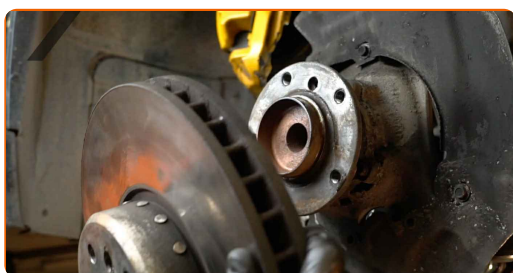
11

Unscrew the brake disc fastening. Use HEX No.H6. Use an impact screwdriver.



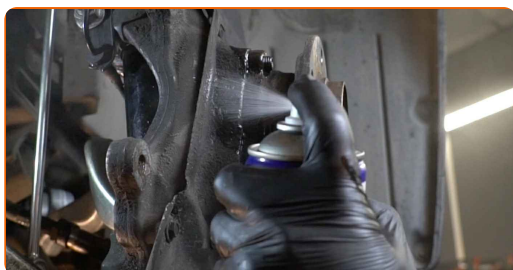
12

Remove the brake disc.



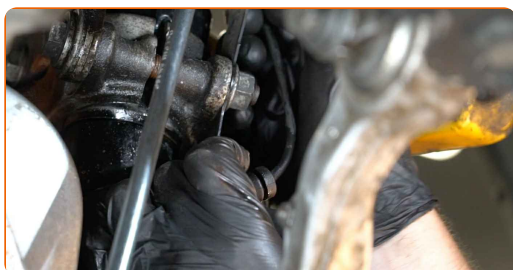
13

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



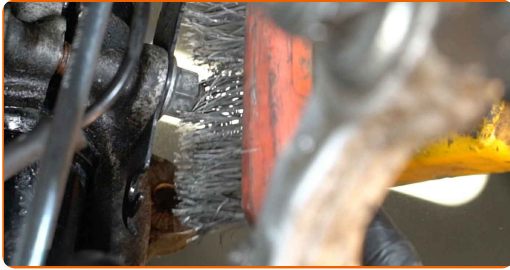
14

Disconnect the ABS sensor wiring.





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

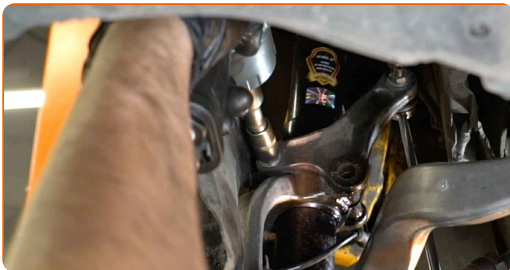


- 16** Prop up the steering knuckle. Use a hydraulic transmission jack.

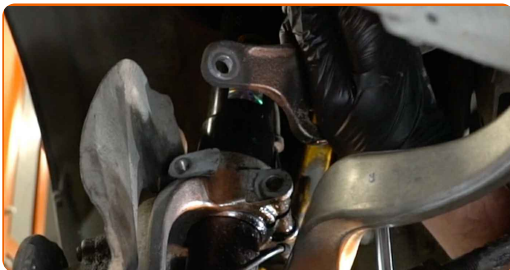
- 17** Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use a drive socket #18. Use a ratchet wrench.



- 18** Unscrew the fastener of the stabiliser link bracket. Use a drive socket #16. Use a ratchet wrench.



- 19** Remove the fastening bolt.



20

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



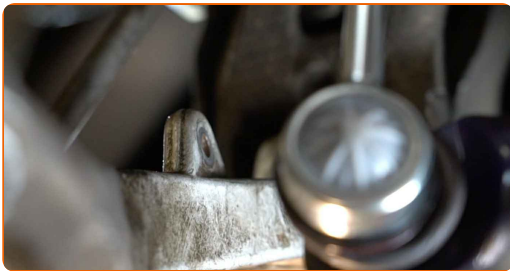
21

Unscrew the fasteners of the headlight levelling sensor. Use a drive socket #10. Use a ratchet wrench.



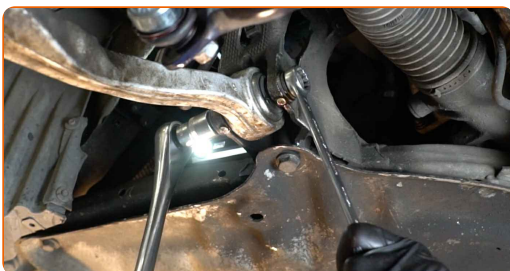
22

Disconnect the headlight levelling sensor.



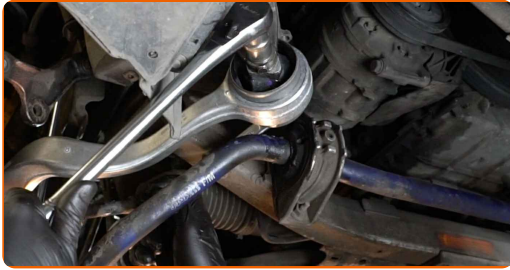
23

Unscrew the rear fastener connecting the control arm to the subframe. Use a combination spanner #18. Use a drive socket #18. Use a ratchet wrench.

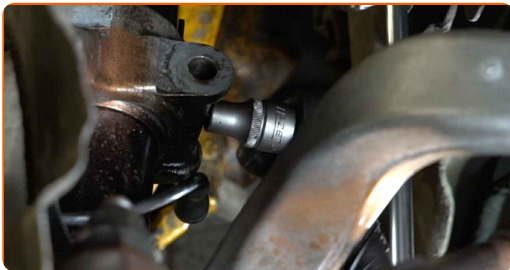




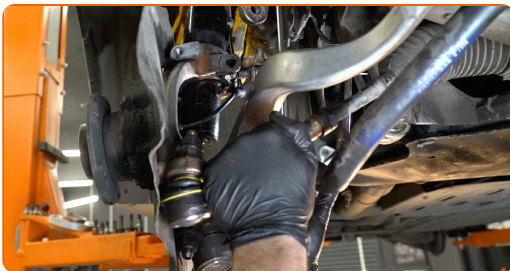
- 24** Unscrew the front arm fastener. Use a combination spanner #18. Use a drive socket #18. Use a ratchet wrench.



- 25** Release the lower fastener connecting the shock strut to the steering knuckle. Use a special drive socket to remove the shock absorber. Use a ratchet wrench.



- 26** Lower the hydraulic transmission jack by 10-15 cm.



### AUTODOC recommends:

- Replacement: wheel bearing – BMW 6 Coupe (E63). Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

27

Disconnect the steering knuckle from the shock absorber strut.



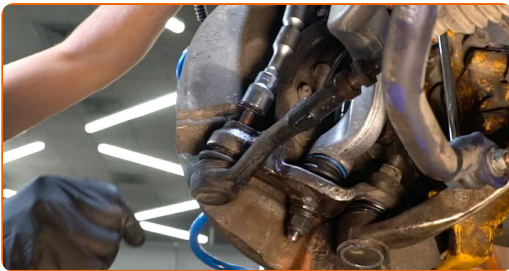
28

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



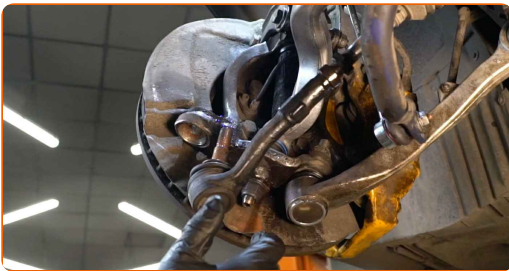
29

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



30

Disconnect the tie rod end from the steering knuckle.



31

Remove the rear fastener of the control arm.

