

VIDEO TUTORIAL



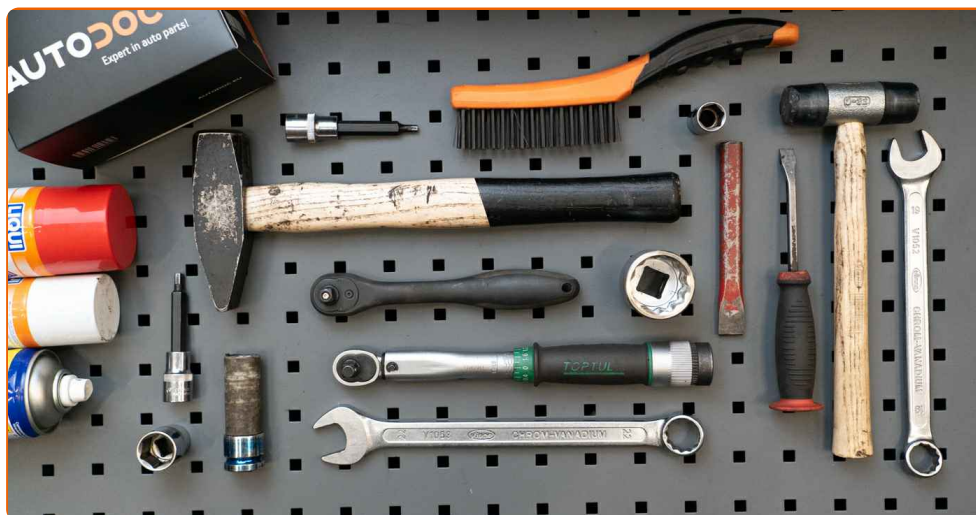
Important!

This replacement procedure can be used for:

BMW X3 (E83) xDrive 20 d, BMW X3 (E83) xDrive 30 d, BMW 3 Saloon (E90) 320d xDrive 2.0, BMW X5 (E53) 4.4 i, BMW X5 (E53) 3.0 d, BMW X5 (E53) 4.6 is, BMW X3 (E83) xDrive 30 i, BMW X5 (E53) 3.0 i, BMW X3 (E83) 3.0 i xDrive, BMW X3 (E83) 2.5 i, BMW X3 (E83) 3.0 d, BMW X5 (E53) 4.8 is, BMW X3 (E83) 2.0 d, BMW X3 (E83) 2.0 i, BMW 5 Saloon (E60) 525xi 2.5, (+ 73)

The steps may slightly vary depending on the car design.

REPLACEMENT: WHEEL BEARING – BMW X3 E83. LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #18
- Combination spanner #22
- HEX bit no.H5
- HEX bit no.H6
- Drive socket # 16
- Drive socket # 22
- Drive socket # 36
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Flat Screwdriver
- Flat chisel
- Hammer
- Rubber mallet
- Bush and bearing driver set
- Circlip pliers
- Crow bar
- Wheel chock

BUY TOOLS

Replacement: wheel bearing – BMW X3 E83. AUTODOC experts recommend:

- Do not re-use the bearing assembly of your BMW X3 E83 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 X3 E83. 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 X3 E83. Tip:

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

5

Remove the wheel.



6

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

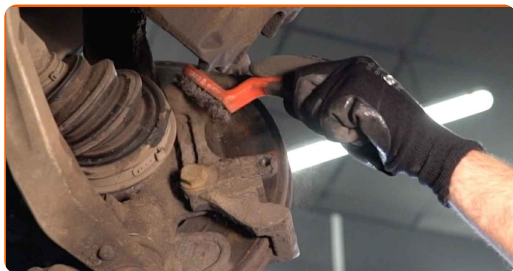
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Loosen the fastener of the driveshaft. Use a drive socket #36. Use a ratchet wrench.



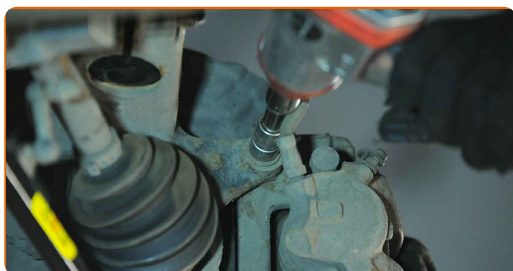
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Clean the brake caliper bracket fasteners. Use a wire brush. Use WD-40 spray.



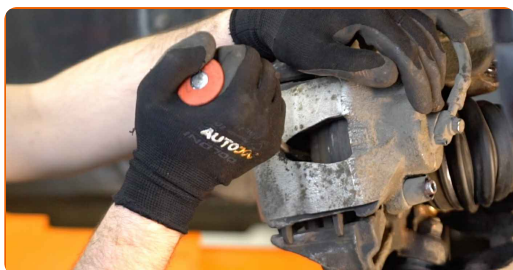
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Unscrew the caliper bracket fastening. Use a drive socket #16. Use a ratchet wrench.



10

Spread the brake pads. Use a crowbar.



11

Remove the brake caliper together with its bracket.



Replacement: wheel bearing – BMW X3 E83. 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.
- Check the brake caliper bracket, brake caliper guide pins and boots. Clean them. Replace, if necessary.

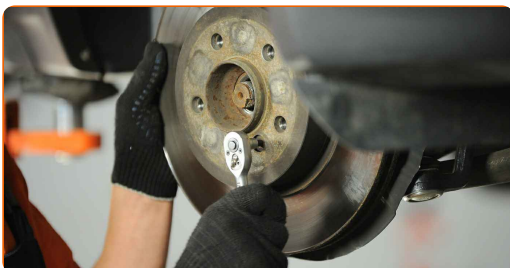
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Clean the brake disc fasteners. Use a wire brush. Use WD-40 spray.



13

Unscrew the brake disc fastening. Use HEX No.H6. Use a ratchet wrench.



- 14** Remove the brake disc.



- 15** Clean the fastener connecting the ball joint to the steering knuckle. Use a wire brush. Use WD-40 spray.

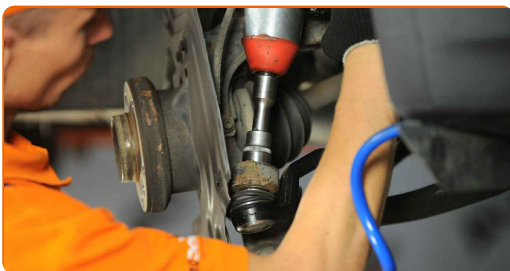
- 16** Unscrew the fastener connecting the ball joint of the rear control arm to the steering knuckle. Use a combination spanner #22.



- 17** Detach the rear control arm from the steering knuckle. Use a crowbar. Use a hammer.

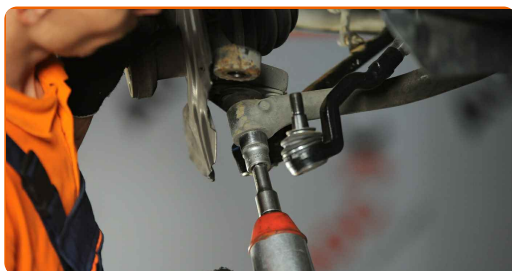
- 18** Clean the fastener connecting the tie rod end to the steering knuckle. Use a wire brush. Use WD-40 spray.

- 19** Unscrew the end fastening nut to the steering knuckle. Use a drive socket #22. Use a ratchet wrench.



20

Disconnect the tie rod end from the steering knuckle. Use a hammer.



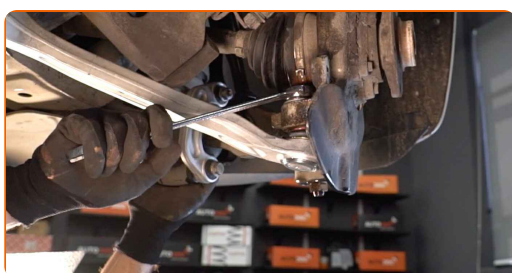
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Clean the fastener connecting the ball joint to the steering knuckle. Use a wire brush. Use WD-40 spray.



22

Unscrew the fastener connecting the ball joint of the front control arm to the steering knuckle. Use a drive socket #22. Use a ratchet wrench.



23

Detach the front control arm from the steering knuckle. Use a hammer.



24

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

25

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



26

Disconnect the ABS sensor.

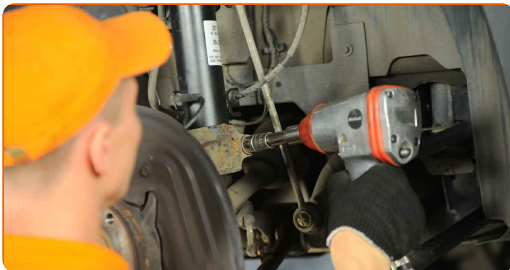


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Clean the fasteners connecting the shock strut to the steering knuckle. Use a wire brush. Use WD-40 spray.

28

Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #16. Use a ratchet wrench.



29

Remove the fastening bolt.



30

Remove the drive shaft. Use a flat screwdriver.



Replacement: wheel bearing – BMW X3 E83. Tip from AUTODOC:

- If necessary, use a rubber mallet.

31

Disconnect the steering knuckle from the shock absorber strut. Use a hammer.

32

Remove the steering knuckle together with the hub.



33

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

