



How to change rear ABS  
sensor on **BMW X3 E83** –  
replacement guide

## VIDEO TUTORIAL



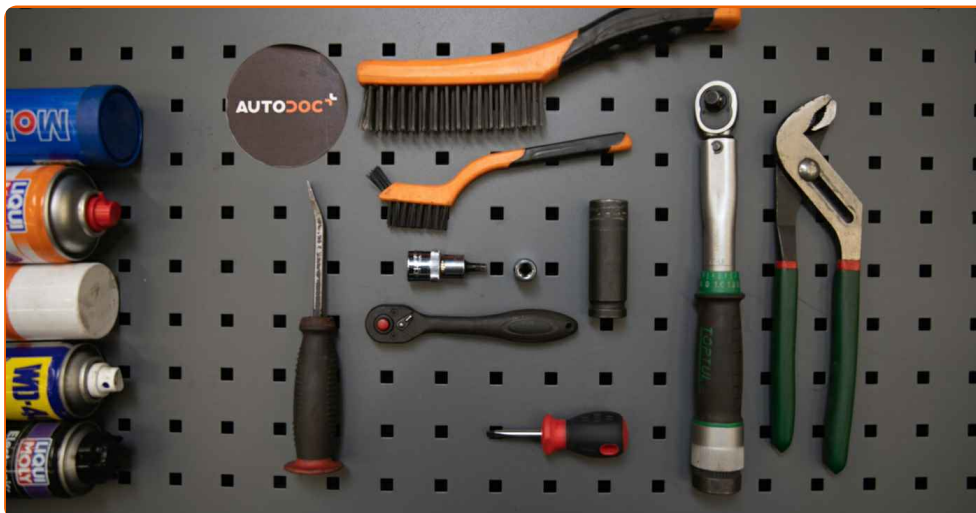
### Important!

This replacement procedure can be used for:

BMW X3 (E83) xDrive 20 d, BMW X3 (E83) xDrive 30 d, BMW X3 (E83) 3.0 i xDrive, BMW X3 (E83) 3.0 d, BMW X3 (E83) 2.0 d, BMW X3 (E83) 2.0 i, BMW X3 (E83) 3.0 si, BMW X3 (E83) 2.5 si, BMW X3 (E83) 3.0 sd, BMW X3 (E83) xDrive 20 i, BMW X3 (E83) xDrive 25 i, BMW X3 (E83) xDrive 30 i, BMW X3 (E83) xDrive 18 d, BMW X3 (E83) xDrive 35 d, BMW X3 (E83) 2.5 si xDrive

The steps may slightly vary depending on the car design.

## REPLACEMENT: ABS SENSOR – BMW X3 E83. TOOLS YOU NEED:



- Wire brush
- Nylon cleaning brush
- WD-40 spray
- Brake cleaner
- Electronic spray
- Copper grease
- Multipurpose grease
- Torque wrench
- Drive socket # 8
- HEX bit No.H5
- Wheel impact socket #17
- Ratchet wrench
- Flat Screwdriver
- Water pump pliers
- Crow bar
- Wheel chock

[BUY TOOLS](#)

Replacement: ABS sensor – BMW X3 E83. Tip from AUTODOC experts:

- All work should be done with the engine stopped.

## REPLACEMENT: ABS SENSOR – BMW X3 E83. TAKE THE FOLLOWING STEPS:

1 Secure the wheels with chocks.

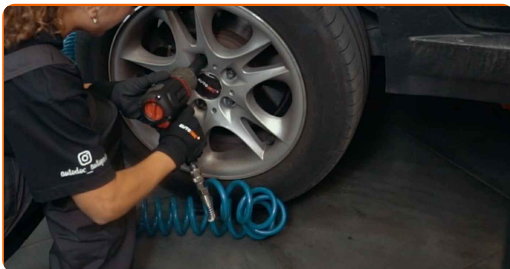
2 Loosen the wheel mounting bolts. Use wheel impact socket #17.



3 Raise the rear of the car and secure on supports.



4 Unscrew the wheel bolts.



### AUTODOC recommends:

- Important! Hold the wheel while unscrewing the fastening bolts. BMW X3 E83

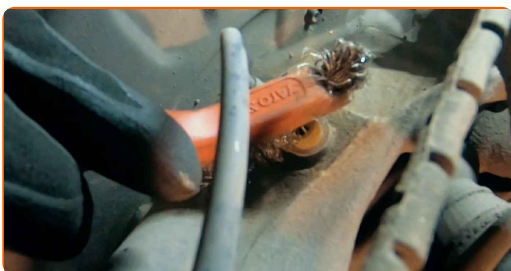
5

Remove the wheel.



6

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



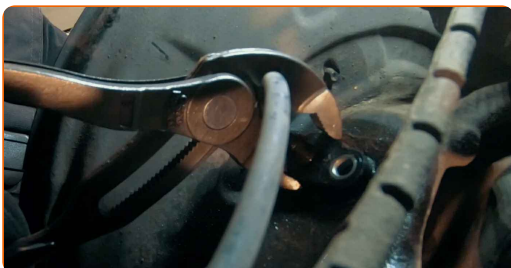
7

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

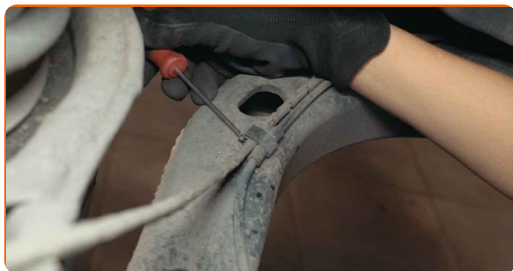


8

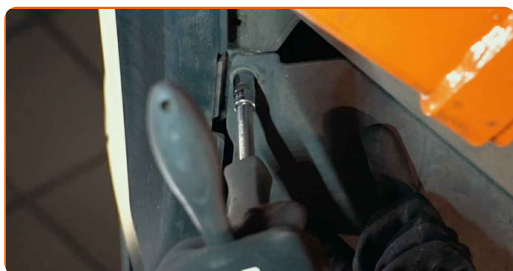
Remove the ABS sensor from the steering knuckle. Use water pump pliers.



- 9 Disconnect the ABS sensor wiring. Use a flat screwdriver.



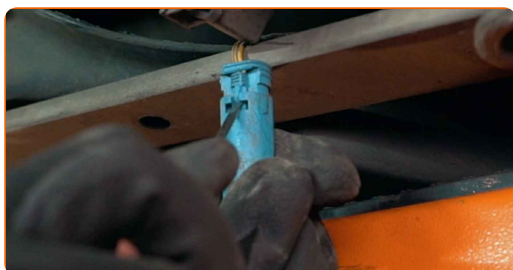
- 10 Unscrew the fasteners of the plastic car body protective cover. Use a drive socket #8. Use a ratchet wrench.



- 11 Remove the plastic car body protective cover.



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

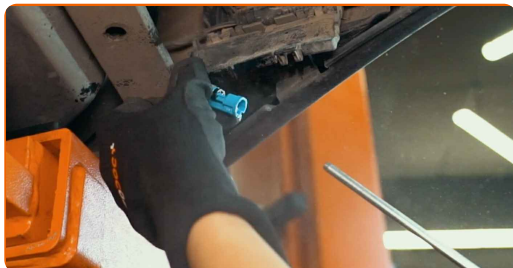


- 13 Clean the ABS sensor connector. Use a nylon cleaning brush.

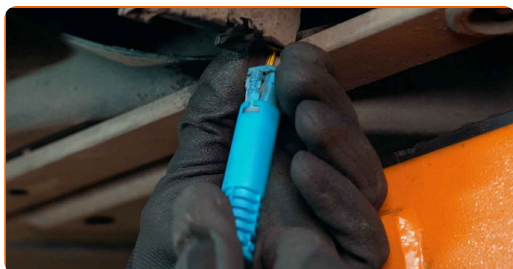


**14** Disconnect the ABS sensor wiring. Use a flat screwdriver.

**15** Treat the ABS sensor connector. Use dielectric grease.



**16** Attach the ABS sensor connector.



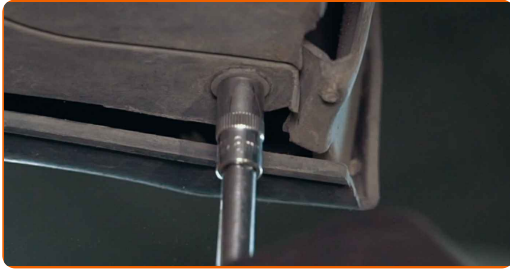
**17** Connect the ABS sensor wiring.



**18** Reinstall the plastic car body protective cover.



- 19 Screw in the fasteners of the plastic car body protective cover. Use a drive socket #8. Use a ratchet wrench.



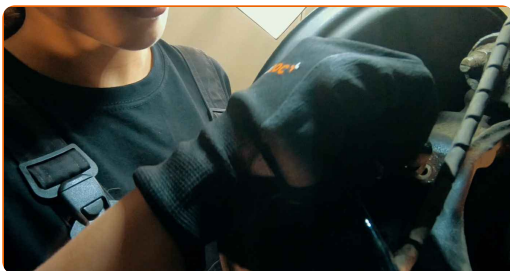
- 20 Connect the ABS sensor wiring.



- 21 Treat the ABS sensor fastener. Use a multipurpose grease. Use a crowbar.



- 22 Install the ABS sensor on the steering knuckle and secure it.



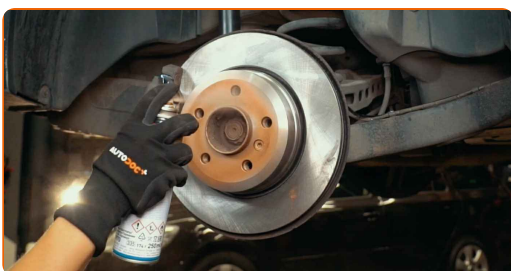
- 23 Tighten the fastener that connects the ABS sensor to the steering knuckle. Use HEX No.H5. Use a torque wrench. Tighten it to 7 Nm torque.



- 24 Clean the wheel rim mounting seat. Use a wire brush.



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



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



### AUTODOC recommends:

- Replacement: ABS sensor – BMW X3 E83. After applying the spray, wait a few minutes.

27

Install the wheel.



### AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. BMW X3 E83

28

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



29

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 140 Nm torque.



30

Remove the jacks and chocks.



**WELL DONE!** 

**VIEW MORE TUTORIALS**

## AUTODOC – TOP QUALITY AND AFFORDABLE CAR PARTS ONLINE

**AUTODOC MOBILE APP: GREAT DEALS AND CONVENIENT SHOPPING**



**+ AUTODOC**

GET IT ON  
**Google Play**

Download on the  
**App Store**

**Download**

**A GREAT SELECTION OF SPARE PARTS FOR YOUR CAR**

**BUY SPARE PARTS FOR BMW**

**ABS SENSOR: A WIDE SELECTION**

**CHOOSE CAR PARTS FOR BMW X3 E83**

**ABS SENSOR FOR BMW: BUY NOW**

**ABS SENSOR FOR BMW X3 E83: THE BEST DEALS & OFFERS**

### **DISCLAIMER:**

The document contains only general recommendations that may be useful for you when you perform repair or replacement work. AUTODOC shall not be liable for any loss, injury, damage of property occurring in the repair or replacement process due to incorrect use or misinterpretation of the provided information.

AUTODOC shall not be liable for any possible mistakes and uncertainties in this guide. The information provided is for information purposes only and cannot replace advice from specialists.

AUTODOC shall not be liable for incorrect or hazardous usage of equipment, tools and car parts. AUTODOC strongly recommends to be careful and observe the safety rules when performing repair or replacement works. Remember: usage of low quality auto parts does not guarantee you the appropriate level of road safety.

© Copyright 2022 – All the contents of this website, in particular texts, photographs and graphics, are protected by copyright. All rights, including reproduction, publication, editing and translation rights, are reserved by AUTODOC GmbH.