+ AUTODOC CLUB

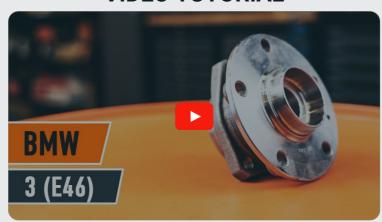
How to change front wheel bearing on **BMW E46** – replacement guide







VIDEO TUTORIAL



(i) Important!

This replacement procedure can be used for:

BMW 3 Saloon (E36) 316i 1.6, BMW 3 Saloon (E36) 318i 1.8, BMW 3 Saloon (E36) 318is 1.8, BMW 3 Coupe (E36) 318is 1.8, BMW 3 Saloon (E36) 320i 2.0, BMW 3 Coupe (E36) 320i 2.0, BMW 3 Saloon (E36) 325i 2.5, BMW 3 Coupe (E36) 325i 2.5, BMW 3 Saloon (E36) 325td 2.5, BMW 3 Saloon (E36) 325tds 2.5, BMW 5 Saloon (E34) 520i 2.0 24V, BMW 5 Saloon (E34) 524td 2.5, BMW 5 Saloon (E34) 525i 2.5 24V, BMW 5 Saloon (E34) 525tds 2.5, (+ 141)

The steps may slightly vary depending on the car design.

CLUB.AUTODOC.CO.UK 1–16







REPLACEMENT: WHEEL BEARING – BMW E46. TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Drive socket # 16
- Drive socket # 46
- HEX bit No.H6.
- HEX bit No.H7.
- Wheel impact socket #17

- Ratchet wrench
- Torque wrench
- Tap wrench
- Hammer
- Pin punch
- Flat Screwdriver
- Crow bar
- Wheel chock

BUY TOOLS

CLUB.AUTODOC.CO.UK 2-16







Replacement: wheel bearing – BMW E46. Professionals recommend:

- Do not re-use the bearing assembly of your AUDI A4 B6 car.
- The wheel hub bearing replacement procedure is identical for both wheels on the same axle.
- Warning! Shut down the engine before starting any work BMW E46.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

Secure the wheels with chocks.



- Loosen the wheel mounting bolts. Use wheel impact socket #17.
- Raise the front of the car and secure on supports.



CLUB.AUTODOC.CO.UK 3-16







4 Unscrew the wheel bolts.



Replacement: wheel bearing – BMW E46. AUTODOC recommends:

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



Detach the brake caliper retaining spring. Use a flat screwdriver.



Remove the dust boot caps of the brake caliper guide pins. Use a flat screwdriver.



CLUB.AUTODOC.CO.UK 4–16







- Clean the brake caliper fasteners. Use a wire brush. Use WD-40 spray.
- 9 Unscrew the brake caliper fastening. Use HEX No.H7. Use a ratchet wrench.



Spread the brake pads. Use a crowbar.



11 Remove the brake caliper.



CLUB.AUTODOC.CO.UK 5-16







Replacement: wheel bearing – BMW E46. Tip from AUTODOC experts:

- 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.

Remove the brake pads.



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



CLUB.AUTODOC.CO.UK 6-16







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



Remove the caliper bracket.



- Clean the brake disc fasteners. Use a wire brush. Use WD-40 spray.
- Unscrew the brake disc fastening. Use HEX No.H6. Use a ratchet wrench.



- 18 Remove the brake disc.
- Remove the hub bearing protection cap. Use a flat screwdriver. Use a hammer.



CLUB.AUTODOC.CO.UK 7–16







Please note!

• Some cars are not equipped with wheel hub caps.





Clean the fasteners of the wheel hub bearing. Use a wire brush. Use WD-40 spray.



Unscrew the hub bearing mounting. Use a drive socket #46. Use a tap wrench.



Remove the hub and the bearing together, since they are a sealed unit.



23

CLUB.AUTODOC.CO.UK 8-16







- Clean the hub bearing mounting seat. Use a wire brush. Use WD-40 spray.
- Install the new wheel hub with a bearing. Use a hammer.



Tighten the fastener of the wheel hub bearing. Use a drive socket #46. Use a torque wrench. Tighten it to 290 nm torque.



Restake the wheel hub retaining nut. Use a pin punch. Use a hammer.



Install the hub bearing protection cap. Use a hammer.



28

CLUB.AUTODOC.CO.UK 9-16







- Treat the hub where it contacts the brake disk. Use copper grease.
- 30 Install the brake disc.



Tighten the brake disc fastening. Use HEX No.H6. Use a torque wrench. Tighten it to 9 Nm torque.



Clean the brake caliper bracket from dirt and dust. Use a wire brush. Use a brake cleaner.



AUTODOC recommends:

 Replacement: wheel bearing – BMW E46. After applying the spray, wait a few minutes.

CLUB.AUTODOC.CO.UK 10-16







33 Install the brake caliper bracket.



Tighten the brake caliper bracket. Use a drive socket #16. Use a torque wrench. Tighten it to 110 Nm torque.



Install the brake pads.

37



Install the brake caliper and fix it. Use HEX No.H7. Use a torque wrench. Tighten it to 30 Nm torque.



Install the dust boot caps of the brake caliper guide pins.



CLUB.AUTODOC.CO.UK 11-16







Install the brake caliper retaining spring. Use a flat screwdriver.



- Treat the shock strut fasteners. Use copper grease.
- Treat the surface where the brake disc contacts the wheel rim. Use copper grease.



Clean the brake disk surface. Use a brake cleaner.



Replacement: wheel bearing – BMW E46. Tip from AUTODOC:

• After applying the spray, wait a few minutes.

CLUB.AUTODOC.CO.UK 12-16







42 Install the wheel.



AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. BMW E46
- Screw in the wheel bolts. Use wheel impact socket #17.



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.



CLUB.AUTODOC.CO.UK 13-16







45

Remove the jacks and chocks.





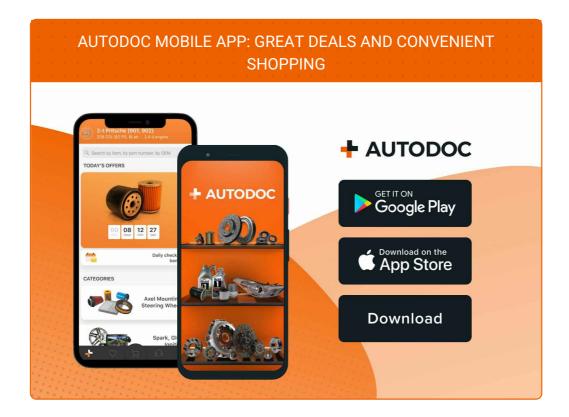


CLUB.AUTODOC.CO.UK 14-16





AUTODOC — TOP QUALITY AND AFFORDABLE CAR PARTS ONLINE



A GREAT SELECTION OF SPARE PARTS FOR YOUR CAR

BUY SPARE PARTS FOR BMW

WHEEL BEARING: A WIDE SELECTION

CLUB.AUTODOC.CO.UK 15-16





CHOOSE CAR PARTS FOR BMW E46

WHEEL BEARING FOR BMW: BUY NOW

WHEEL BEARING FOR BMW E46: THE BEST DEALS & OFFERS

i 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 2023 – 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 SE.

CLUB.AUTODOC.CO.UK 16-16