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How to change front wheel bearing on **VOLVO S80 II (124)** – replacement guide







## SIMILAR VIDEO TUTORIAL



This video shows the replacement procedure of a similar car part on another vehicle

## (i) Important!

This replacement procedure can be used for:

VOLVO S80 II (124) 1.6 T4, VOLVO S80 II (124) 2.0 T5, VOLVO S80 II (124) 2.0 D3 / D4, VOLVO S80 II (124) 3.2 AWD, VOLVO S80 II (124) 3.2, VOLVO S80 II (124) 1.6 DRIVe, VOLVO S80 II (124) 2.4 D5 AWD, VOLVO S80 II (124) 2.4 D5, VOLVO S80 II (124) 1.6 T4F, VOLVO S80 II (124) 4.4 V8 AWD, VOLVO S80 II (124) 2.5 T, VOLVO S80 II (124) 2.4 D, VOLVO S80 II (124) 3.0 T6 AWD, VOLVO S80 II (124) 2.5 T FlexFuel, VOLVO S80 II (124) 2.0 FlexFuel, (+ 9)

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: VOLVO V70 III (135) 2.0 FlexiFuel

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## REPLACEMENT: WHEEL BEARING – VOLVO S80 II (124). TOOLS YOU NEED:



- Wire brush
- Nylon cleaning brush
- WD-40 spray
- All-purpose cleaning spray
- Electronic spray
- Brake cleaner
- Ceramic grease
- Copper grease
- Torque wrench
- Combination spanner #21
- Drive socket # 8
- Drive socket # 13
- Drive socket # 15
- Drive socket #18
- Drive socket # 22

- Torx bit T50
- Wheel impact socket #19
- Ratchet wrench
- Tap wrench
- Hammer
- Impact screwdriver
- Flat chisel
- Rubber mallet
- Bush and bearing driver set
- Ball joint puller
- Bearing separator
- Crow bar
- Hydraulic transmission jack
- Wheel chock

**Buy tools** 

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### **AUTODOC** recommends:

- Do not re-use the bearing assembly of your VOLVO S80 II (124) car.
- The wheel hub bearing replacement procedure is identical for both wheels on the same axle.
- Please note: all work on the car VOLVO S80 II (124) should be done with the engine switched off.

## CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

- Open the bonnet.
- Unscrew the brake fluid reservoir cap.
- Secure the wheels with chocks.
- Loosen the fastener of the driveshaft. Use a drive socket #13. Use a tap wrench.



Loosen the wheel bolts. Use wheel impact socket #19. Use a tap wrench.



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6 Raise the car.

## Replacement: wheel bearing - VOLVO S80 II (124). AUTODOC recommends:

- If you are using a jack, make sure it rests on a flat surface without any unevenness.
- Be sure to additionally secure the car with jack stands.

7 Unscrew the wheel bolts.



## **AUTODOC** recommends:

Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.
VOLVO S80 II (124)

Remove the wheel.



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Detach the brake hose from the shock strut.



Spread the brake pads. Use a crowbar.



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



Unscrew the brake caliper bracket fasteners. Use a drive socket #18. Use a ratchet wrench.



Remove the fastening bolts.



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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.

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



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Unscrew the brake disc fasteners. Use Torx T50. Use an impact screwdriver. Use a hammer.



17 Remove the fastening bolt.



18 Remove the brake disc.



Unscrew the fastener connecting the drive shaft to the wheel hub. Use a drive socket #13. Use a ratchet wrench.



Remove the fastening bolt.



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



Unscrew the fasteners of the brake disc cover. Use a drive socket #8. Use a ratchet wrench.



- Remove the fastening bolts.
- Remove the brake disc cover.



Clean the ABS sensor connector. Use a nylon cleaning brush. Use all-purpose cleaning spray.



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Detach the ABS sensor connector.



Disconnect the ABS sensor wiring.

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Unscrew the fastener connecting the stabilizer link to the shock strut. Use a drive socket #15. Use a ratchet wrench.



Disconnect the sway bar link from the suspension strut.



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



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Unscrew the fastening nut connecting the tie rod end to the steering knuckle. Use a drive socket #22. Use a ratchet wrench.



Disconnect the tie rod end from the steering knuckle. Use a ball joint puller.



Clean the lower fastener connecting the suspension strut to the steering knuckle. Use a wire brush. Use WD-40 spray.



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Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use a drive socket #15. Use a ratchet wrench.



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Remove the fastening bolt.



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



Unscrew the fastener connecting the ball joint to the steering knuckle. Use a combination spanner #21.



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



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Detach the driveshaft from the steering knuckle.



## Replacement: wheel bearing – VOLVO S80 II (124). Tip:

- Make sure that the drive shaft is not unloaded (when the car is jacked).
- Support the steering knuckle. Use a hydraulic transmission jack.



Release the lower fastener connecting the shock strut to the steering knuckle. Use a flat metal-working chisel. Use a hammer.



Disconnect the steering knuckle from the suspension strut. Use a rubber mallet.



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Remove the steering knuckle together with the wheel hub.



Clean the suspension strut mounting seat on the steering knuckle. Use a wire brush.



Clean the fastener that connects the sway bar link to the suspension strut. Use a wire brush.



46

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



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



- Clean the splines of the drive shaft CV joint. Use a wire brush.
  - Treat the splines of the driveshaft CV joint. Use copper grease.
- Remove the wheel hub together with the bearing. Use a bush and bearing driver set.



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



Install the new wheel hub together with the bearing. Use a bush and bearing driver set. Use a bearing separator.



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## Replacement: wheel bearing – VOLVO S80 II (124). AUTODOC experts recommend:

- 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.
- Install the steering knuckle assembled with the wheel hub.



- Fasten the suspension strut on the steering knuckle.
- 55 Install the fastening bolt.

56



Remove the support from under the steering knuckle.

#### **AUTODOC** recommends:

 VOLVO S80 II (124) – Do not lower the transmission jack sharply to avoid damaging components and mechanisms of the car.

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57 Install the drive shaft.



Connect the ball joint to the steering knuckle. Use a crowbar.



Screw the fastener connecting the ball joint to the steering knuckle. Use a combination spanner #21.



60 Install the fastening bolt.

61



Screw in the fastener of the CV axle. Use a drive socket #13. Use a ratchet wrench.



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Connect the tie rod end to the steering knuckle.



Screw on the fastening nut that connects the tie rod end to the steering knuckle. Use a drive socket #22. Use a ratchet wrench.



Reconnect the sway bar link to the suspension strut.



Screw in the fastener connecting the sway bar link to the suspension strut. Use a drive socket #15. Use a ratchet wrench.



66 Connect the ABS sensor wiring.



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Treat the ABS sensor connector. Use electronic spray.



68 Attach the ABS sensor connector.



69 Install the brake disc cover.



- 70 Install the fastening bolts.
- Tighten the fasteners of the brake disc back plate. Use a drive socket #8. Use a torque wrench. Tighten it to 10 Nm torque.



72 Treat the contacting surface. Use ceramic grease.

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73 Install a new brake disc.



74 Install the fastening bolt.



75 Tighten the brake disc fasteners. Use Torx T50. Use a torque wrench. Tighten it to 15 Nm torque.



76 Install the brake caliper together with its bracket.



77 Install the fastening bolts.



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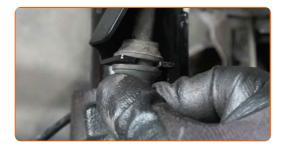




Screw in the fasteners of the brake caliper bracket. Use a drive socket #18. Use a ratchet wrench.



Attach the brake hose to the suspension strut.



Tighten the lower fasteners of the suspension strut. Use a drive socket #15. Use a torque wrench. Tighten it to 110 Nm torque.



Tighten the brake caliper bracket fasteners. Use a drive socket #18. Use a torque wrench. Tighten it to 150 Nm torque.



Tighten the fastener connecting the ball joint to the steering knuckle. Use a combination spanner #21. Use a torque wrench. Tighten it to 110 Nm torque.

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Tighten the fastener connecting the stabilizer link to the shock strut. Use a drive socket #15. Use a torque wrench. Tighten it to 55 Nm torque.



Tighten the fastening nut connecting the tie rod end to the steering knuckle. Use a drive socket #22. Use a torque wrench. Tighten it to 80 Nm torque.



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



- Treat the surface where the brake disc contacts the wheel rim. Use ceramic grease.
- Clean the brake disk surface. Use a brake cleaner.



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88 Install the wheel.



## Replacement: wheel bearing – VOLVO S80 II (124). Tip:

- To avoid injury, hold up the wheel when screwing in the fastening bolts.
- Screw in the wheel bolts. Use wheel impact socket #19. Use a ratchet wrench.



- Lower the car.
- Tighten the CV axle fastener. Use a drive socket #13. Use a torque wrench. Tighten it to 35 Nm torque.+90°



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#### **AUTODOC** recommends:

- Important! Be sure to use new fasteners.
- Tighten the wheel bolts using a criss-cross pattern. Use wheel impact socket #19. Use a torque wrench. Tighten it to 140 Nm torque.



Remove the jacks and chocks.



#### **AUTODOC** recommends:

- VOLVO S80 II (124) Press the brake pedal several times with the engine shut down until you feel the resistance built up.
- Check the brake fluid level in the expansion tank and top up if necessary.

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Tighten the brake fluid reservoir cap.

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95 Close the bonnet.



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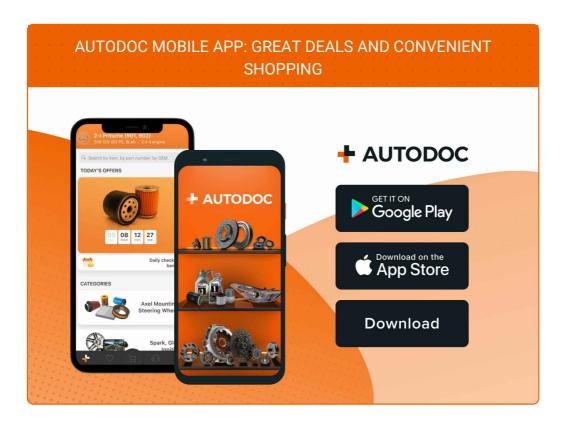
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