



How to change front  
wheel bearing on **Citroën**  
**Berlingo M** –  
replacement guide

## VIDEO TUTORIAL



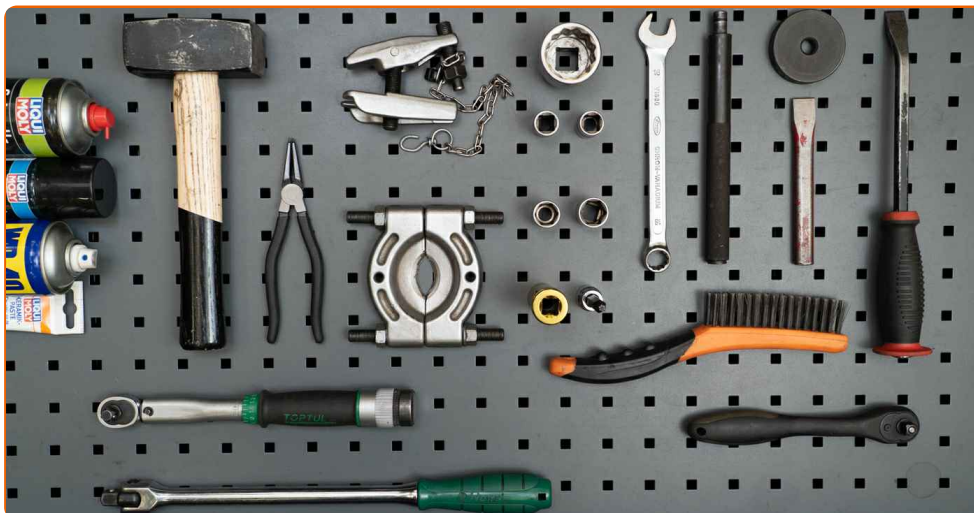
### Important!

This replacement procedure can be used for:

CITROËN BX (XB-\_) 1.4 E, CITROËN BX (XB-\_) 1.6, CITROËN BX (XB-\_) 1.9, CITROËN BX (XB-\_) 1.9 E, CITROËN BX (XB-\_) 1.9 GTi, CITROËN BX (XB-\_) 1.9 GTi 16V, CITROËN BX (XB-\_) 1.8 TRD Turbo, CITROËN BX (XB-\_) 19 D, CITROËN BX (XB-\_) 1.4, CITROËN BX (XB-\_) 1.6 E, CITROËN BX (XB-\_) 1.9 E 4x4, CITROËN BX (XB-\_) 1.9 GTi 4x4, CITROËN BX Break (XB-\_) 1.6, CITROËN BX Break (XB-\_) 1.9, CITROËN BX Break (XB-\_) 1.8 TRD Turbo, (+ 163)

The steps may slightly vary depending on the car design.

**REPLACEMENT: WHEEL BEARING – CITROËN BERLINGO M. TOOLS YOU'LL NEED:**



- Wire brush
- WD-40 spray
- All-purpose cleaning spray
- Brake cleaner
- Ceramic grease
- Copper grease
- Torque wrench
- Combination spanner #16
- Drive socket # 13
- Drive socket # 16
- Drive socket # 17
- Drive socket # 19
- Drive socket # 36
- Torx bit T30
- Wheel impact socket #19
- Bush and bearing driver set
- Bearing separator
- Ball joint puller
- Circlip pliers
- Ratchet wrench
- Flat chisel
- Hammer
- Tap wrench
- Crow bar
- Hydraulic transmission jack
- Wheel chock

**BUY TOOLS**

**AUTODOC recommends:**

- Do not re-use the bearing assembly of your Citroën Berlingo M car.
- The wheel hub bearing replacement procedure is identical for both wheels on the same axle.
- Please note: all work on the car – Citroën Berlingo M – should be done with the engine switched off.

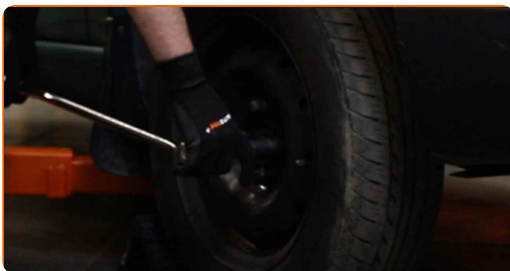
**CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:**

**1** Open the bonnet. Unscrew the brake fluid reservoir cap.



**2** Secure the wheels with chocks.

**3** Loosen the wheel mounting bolts. Use wheel impact socket #19.



4

Raise the car.



Replacement: wheel bearing – Citroën Berlingo M. Tip:

- 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.

5

Unscrew the wheel bolts.



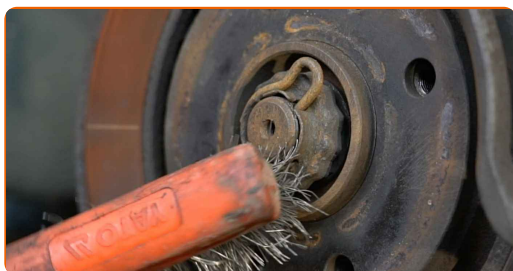
AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.  
Citroën Berlingo M

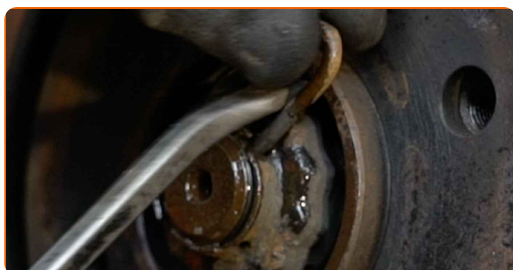
**6** Remove the wheel.



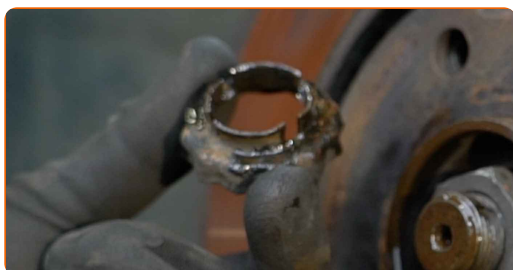
**7** Clean the fastener of the driveshaft. Use a wire brush. Use WD-40 spray.



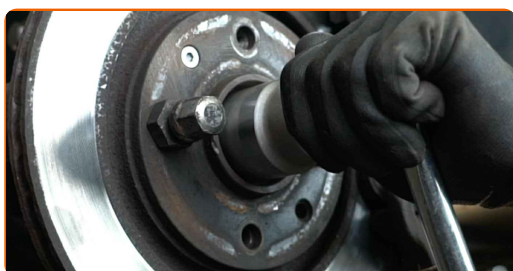
**8** Remove the cotter pin. Use a crowbar.



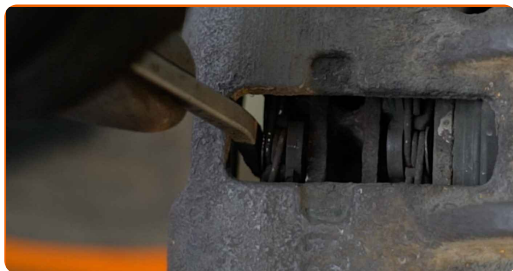
**9** Remove the circlip.



**10** Loosen the fastener of the driveshaft. Use a drive socket #36. Use a tap wrench.



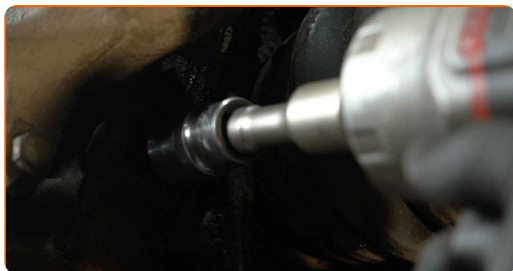
**11** Spread the brake pads. Use a crowbar.



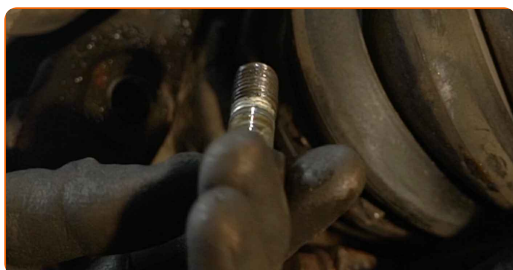
**12** Clean the brake caliper bracket fasteners. Use a wire brush. Use WD-40 spray.



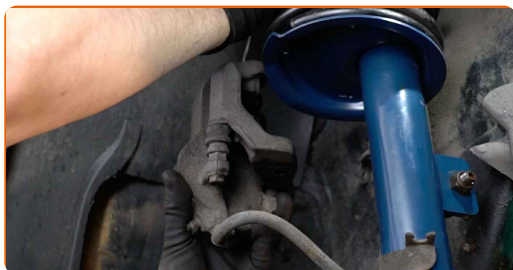
**13** Unscrew the brake caliper bracket fasteners. Use a drive socket #19. Use a ratchet wrench.



**14** Remove the fastening bolts.



**15** Remove the brake caliper together with its bracket.





Replacement: wheel bearing – Citroën Berlingo M. AUTODOC experts recommend:

- 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.

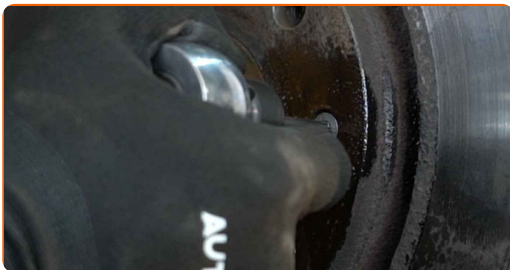
16

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



17

Unscrew the brake disc fasteners. Use Torx T30. Use a ratchet wrench.

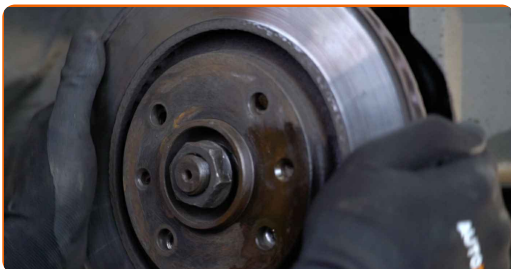


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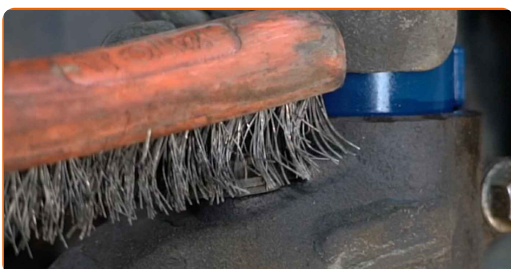
Remove the fastening bolts.



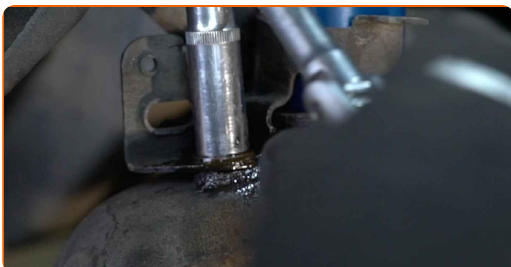
**19** Remove the brake disc.



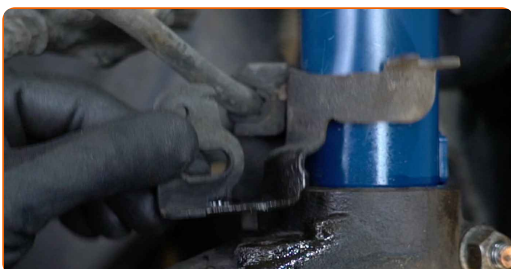
**20** Clean the fastener that connects the brake hose bracket to the suspension strut. Use a wire brush. Use WD-40 spray.



**21** Unscrew the fastener that connects the brake hose bracket to the suspension strut. Use a drive socket #13. Use a ratchet wrench.



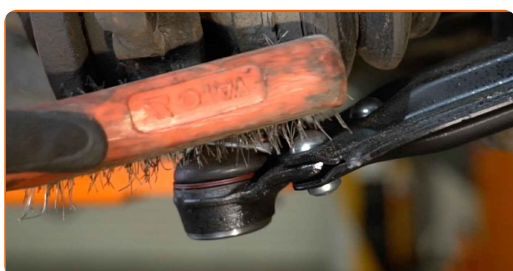
**22** Remove the brake hose bracket.



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



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

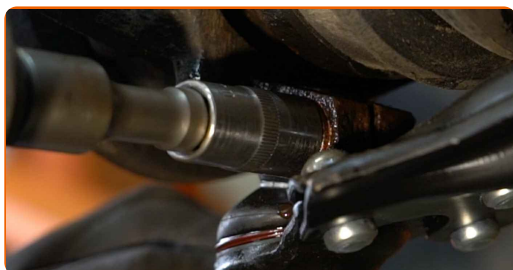


- 25** Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use a combination spanner #16. Use a drive socket #16. Use a ratchet wrench.

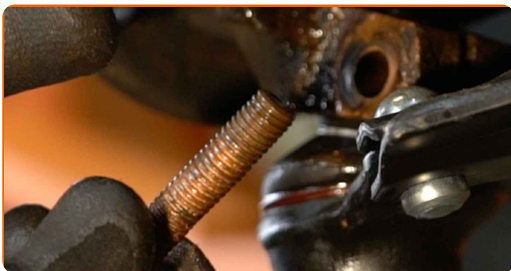


- 26** Remove the fastening bolt.

- 27** Unscrew the ball joint fastening to the steering knuckle. Use a combination spanner #16. Use a drive socket #16. Use a ratchet wrench.



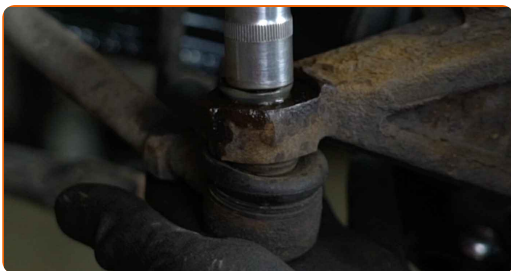
**28** Remove the fastening bolt.



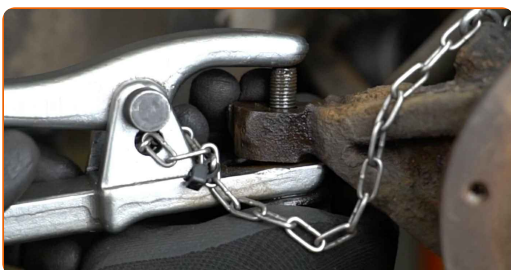
**29** Clean the fastener connecting the tie rod end to the steering knuckle. Use a wire brush. Use WD-40 spray.



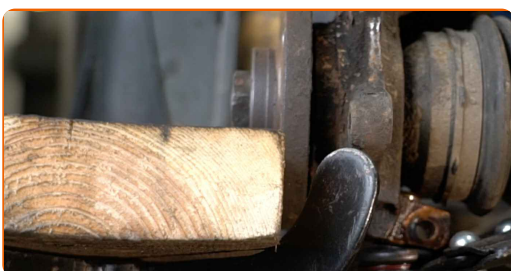
**30** Unscrew the end fastening nut to the steering knuckle. Use a drive socket #17. Use a ratchet wrench.



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



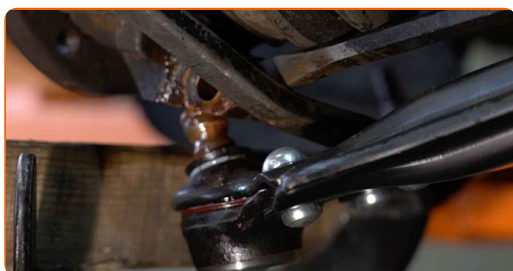
**32** Prop up the steering knuckle. Use a hydraulic transmission jack.



- 33** Release the fastener that connects the control arm ball joint to the steering knuckle. Use a flat metal-working chisel. Use a hammer.



- 34** Disconnect the ball joint from the steering knuckle. Use a crowbar.



- 35** Unscrew the fastener connecting the drive shaft to the wheel hub.



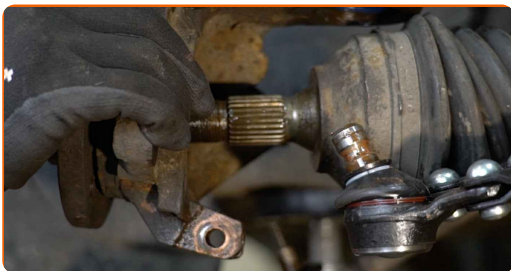
- 36** Remove the fastening nut.

- 37** Remove the support from under the steering knuckle.

**AUTODOC recommends:**

- Important! Hold the wheel while unscrewing the fastening bolts. Citroën Berlingo M

**38** Detach the driveshaft from the steering knuckle.



**AUTODOC recommends:**

- Make sure that the drive shaft is not unloaded (when the car is jacked).

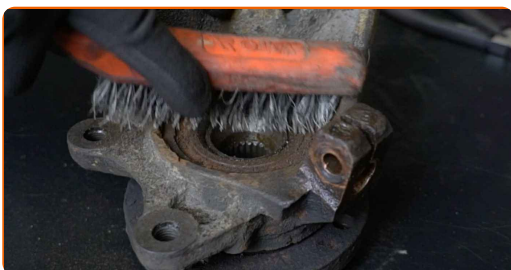
**39** Release the lower fastener connecting the shock strut to the steering knuckle. Use a flat metal-working chisel. Use a hammer.

**40** Disconnect the steering knuckle from the shock absorber strut.

**41** Remove the steering knuckle together with the wheel hub.



**42** Clean the wheel hub bearing retaining ring. Use a wire brush. Use WD-40 spray.





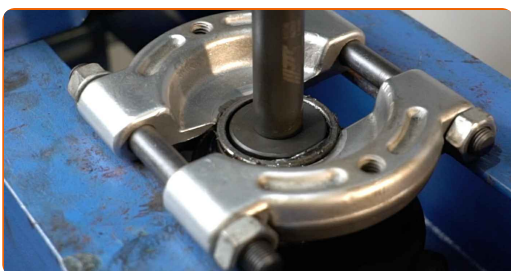
**43** Remove the hub from the steering knuckle. Bush and bearing driver set.



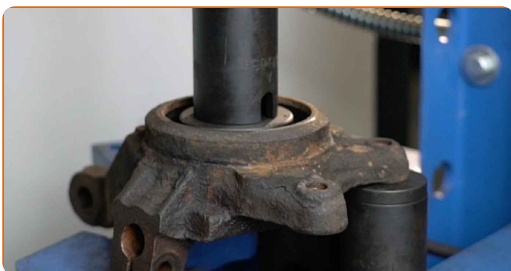
**44** Remove the wheel hub bearing retaining ring. Use circlip pliers.



**45** Dismantle the inner bearing race that is remaining on the hub. Bush and bearing driver set. Use a bearing separator.

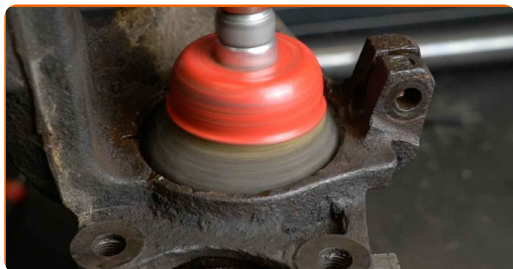


**46** Press out the wheel hub bearing. Bush and bearing driver set.



47

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



48

Press the new bearing in the steering knuckle. Bush and bearing driver set.

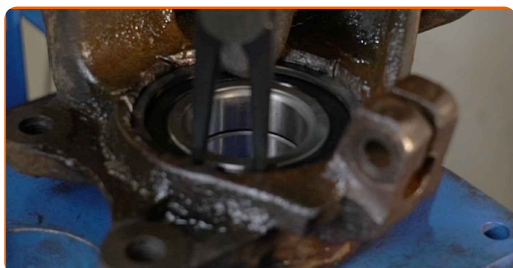


Replacement: wheel bearing – Citroën Berlingo M. AUTODOC experts recommend:

- 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.

49

Install the wheel hub bearing retaining ring. Use circlip pliers.





50

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



51

Install the wheel hub on the steering knuckle. Bush and bearing driver set.



Replacement: wheel bearing – Citroën Berlingo M. AUTODOC recommends:

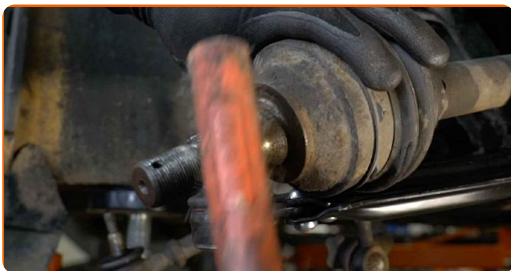
- Make sure that the wheel hub is positioned correctly. Avoid any misalignment.

52

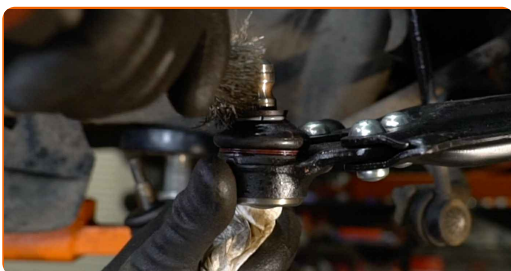
Clean the mounting seats of the shock strut. Use a wire brush. Use WD-40 spray.



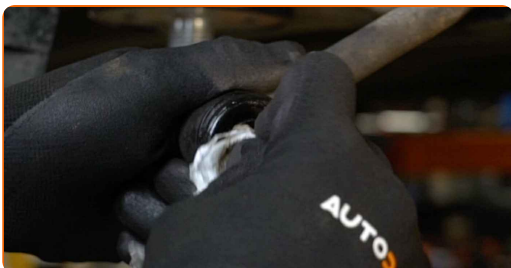
**53** Clean the splines of the drive shaft CV joint. Use a wire brush. Use WD-40 spray.



**54** Clean the ball joint. Use a wire brush. Use WD-40 spray.



**55** Clean the tie rod end. Use a wire brush. Use WD-40 spray.



**56** Install the steering knuckle assembled with the wheel hub.



**57** Fix the shock absorber strut on the steering knuckle.

58 Install the fastening bolt.



59 Treat the splines of the driveshaft CV joint. Use copper grease.



60 Install the steering knuckle on the CV axle.



61 Connect the ball joint to the steering knuckle.



62 Install the fastening bolt.



- 63** Screw the fastener connecting the ball joint to the steering knuckle. Use a combination spanner #16. Use a drive socket #16. Use a ratchet wrench.



- 64** Screw in the fastener that connects the shock strut to the steering knuckle. Use a combination spanner #16. Use a drive socket #16. Use a ratchet wrench.



- 65** Connect the tie rod end to the steering knuckle.



- 66** Tighten the fastening nut connecting the tie rod end to the steering knuckle. Use a drive socket #17. Use a torque wrench. Tighten it to 40 Nm torque.



- 67** Tighten the lower fasteners of the suspension strut. Use a combination spanner #16. Use a drive socket #16. Use a torque wrench. Tighten it to 55 Nm torque.



- 68** Tighten the fastener connecting the ball joint to the steering knuckle. Use a combination spanner #16. Use a drive socket #16. Use a torque wrench. Tighten it to 40 Nm torque.



- 69** Install the fastening nut.



- 70** Screw the nut of the drive shaft. Use a drive socket #36. Use a ratchet wrench.

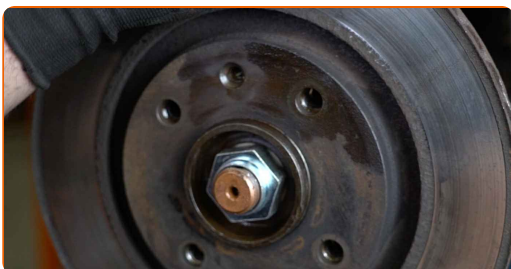


**71** Clean the wheel hub. Use a wire brush. Use all-purpose cleaning spray.

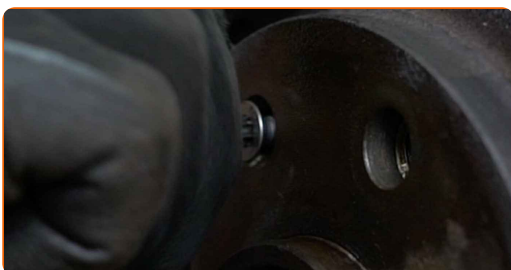


**72** Treat the contacting surface. Use ceramic grease.

**73** Install the brake disc.



**74** Install the fastening bolts.



**75** Tighten the brake disc fasteners. Use Torx T30. Use a torque wrench. Tighten it to 10 Nm torque.





**76** Install the brake caliper together with its bracket.



**77** Install the fastening bolts.



**78** Tighten the brake caliper bracket fasteners. Use a drive socket #19. Use a torque wrench. Tighten it to 105 nm torque.



**79** Install the brake hose bracket.

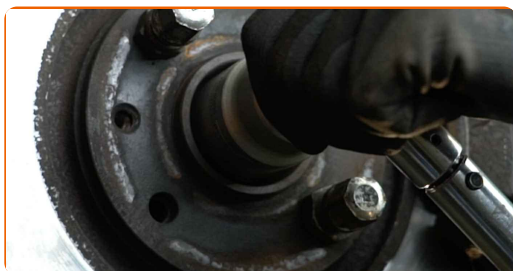


**80** Tighten the brake hose fastening bracket to the shock strut. Use a drive socket #13. Use a torque wrench. Tighten it to 12 nm torque.





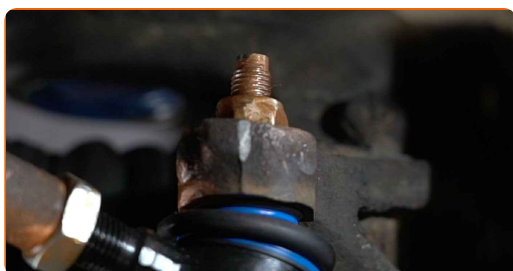
**81** Tighten the drive shaft nut. Use a drive socket #36. Use a torque wrench. Tighten it to 320 Nm torque.



**82** Restake the fastener of the driveshaft. Use a flat metal-working chisel. Use a hammer.



**83** Treat the fastener that connects the suspension strut to the steering knuckle. Treat the ball joint fastener. Treat the fastener connecting the tie rod end to the steering knuckle. Use copper grease.



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

**85** Treat the surface where the brake disc contacts the wheel rim. Use ceramic grease.



86

Clean the brake disk surface. Use a brake cleaner.

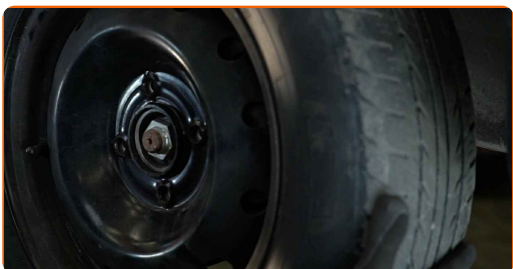


**AUTODOC recommends:**

- Replacement: wheel bearing – Citroën Berlingo M. After applying the spray, wait a few minutes.

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Install the wheel.

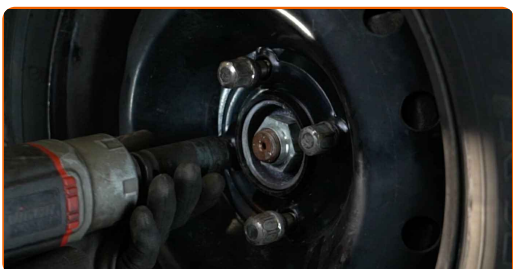


**AUTODOC recommends:**

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. Citroën Berlingo M

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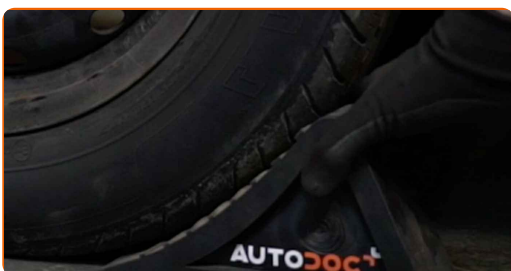
Screw in the wheel bolts. Use wheel impact socket #19.



- 89** Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #19. Use a torque wrench. Tighten it to 90 Nm torque.



- 90** Remove the jacks and chocks.

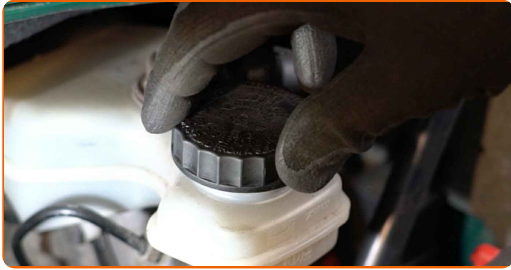


**Replacement: wheel bearing – Citroën Berlingo M. Professionals recommend:**

- Without starting the engine, press the brake pedal several times until you feel significant resistance.
- Check the brake fluid level in the expansion tank and refill if necessary.

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Tighten the brake fluid reservoir cap. Close the hood.



**WELL DONE!** 

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