



How to change front ball  
joint on **CITROËN**

**BERLINGO**

**Platform/Chassis (B9) –**  
replacement guide

## SIMILAR VIDEO TUTORIAL



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

### Important!

This replacement procedure can be used for:  
CITROËN BERLINGO Platform/Chassis (B9) 1.6 HDi 90 16V

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: PEUGEOT 307 SW (3H) 2.0 HDi 135

**REPLACEMENT: BALL JOINT – CITROËN BERLINGO  
PLATFORM/CHASSIS (B9). TOOLS YOU NEED:**



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Torque wrench
- Combination spanner #18
- Drive socket # 18
- Drive socket # 21
- Drive socket # 36
- Drive socket # 41
- Wheel impact socket #17
- Ratchet wrench
- Tap wrench
- Hammer
- Flat chisel
- Pin punch
- Crow bar
- Ball joint puller
- Hydraulic transmission jack
- Wheel chock

**Buy tools**

Replacement: ball joint – CITROËN BERLINGO Platform/Chassis (B9).  
AUTODOC experts recommend:

- The replacement procedure is identical for the left and right ball joints.
- All work should be done with the engine stopped.

## REPLACEMENT: BALL JOINT – CITROËN BERLINGO PLATFORM/CHASSIS (B9). USE THE FOLLOWING PROCEDURE:

**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.

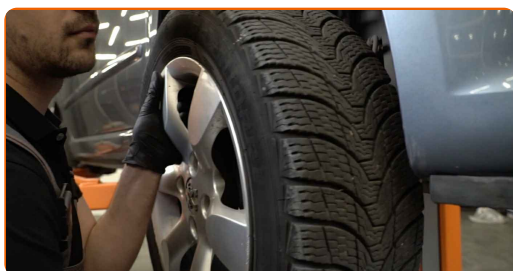
**4** Unscrew the wheel bolts.



**AUTODOC recommends:**

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.  
CITROËN BERLINGO Platform/Chassis (B9)

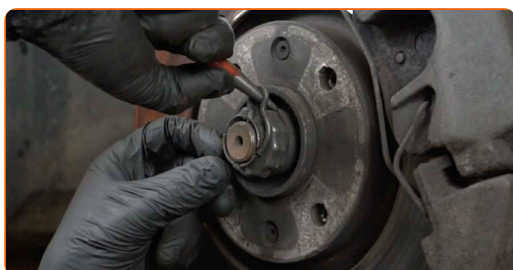
**5** Remove the wheel.



**6** Clean the CV axle nut cotter pin. Use a wire brush.



**7** Remove the CV axle nut cotter pin. Use a pin punch.



8

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



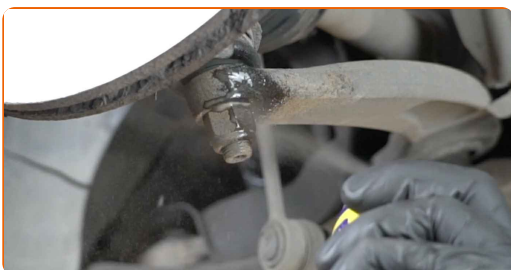
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Loosen the fastener of the driveshaft. Use a drive socket #36. Use a ratchet wrench.



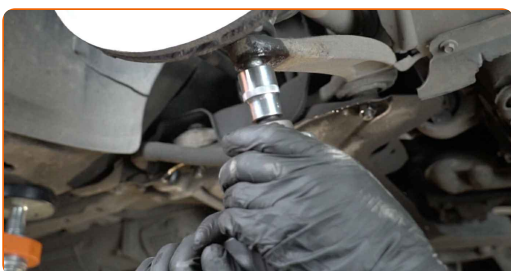
10

Clean all joints of the arm. Use a wire brush. Use WD-40 spray.

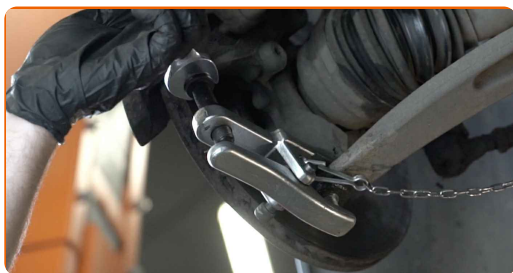


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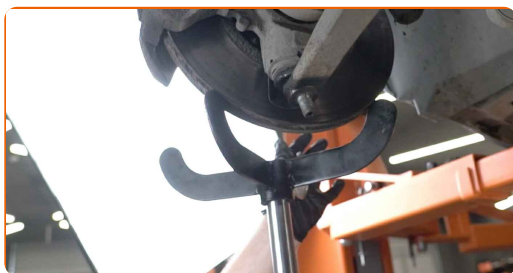
Unscrew the fastener connecting the ball joint to the suspension control arm. Use a drive socket #21. Use a tap wrench.



**12** Disconnect the spherical joint from the arm. Use a ball joint puller.



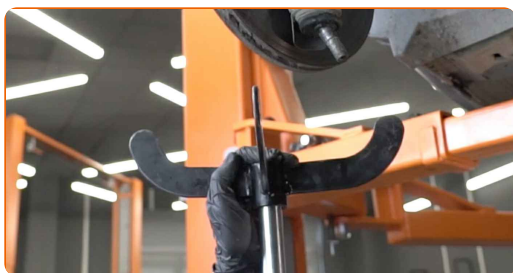
**13** Prop up the steering knuckle. Use a hydraulic transmission jack.



**14** Disconnect the spherical joint from the arm. Use a crowbar.



**15** Remove the support from under the steering knuckle.

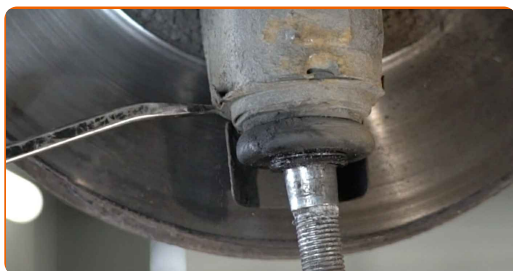


Replacement: ball joint – CITROËN BERLINGO Platform/Chassis (B9).  
AUTODOC recommends:

- Lower the hydraulic transmission jack smoothly, without jerks, to avoid damaging assemblies and mechanisms.



**16** Remove the ball joint lock nut. Use a crowbar.



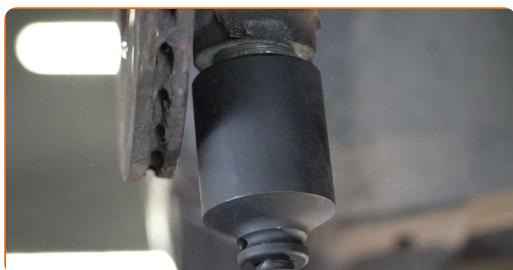
**17** Clean the fastener connecting the ball joint to the steering knuckle. Use a wire brush. Use WD-40 spray.



**18** Unstake the ball joint. Use a flat metal-working chisel. Use a hammer.



**19** Unscrew the ball joint fastening to the steering knuckle. Use a drive socket #41. Use a ratchet wrench.





**20** Remove the ball joint.



**21** Clean the ball joint mounting seat. Use a wire brush. Use WD-40 spray.



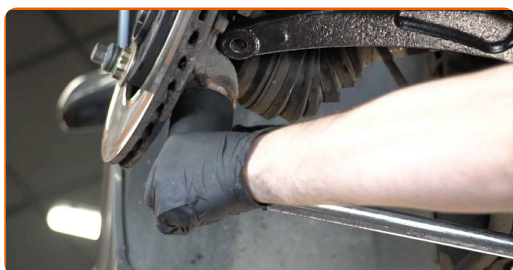
**22** Install a new ball joint.



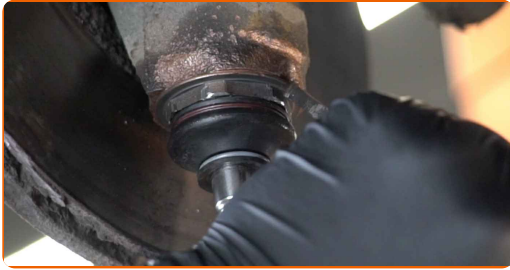
Replacement: ball joint – CITROËN BERLINGO Platform/Chassis (B9). Tip from AUTODOC:

- Do not damage the ball joint cover.

**23** Tighten the ball joint fastener. Use a drive socket #41. Use a torque wrench. Tighten it to 230 nm torque.



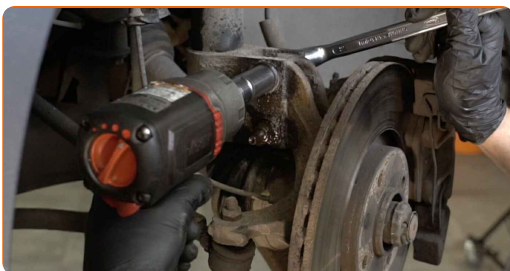
**24** Stake the ball joint. Use a flat metal-working chisel. Use a hammer.



**25** Install the ball joint lock nut. Use a crowbar.

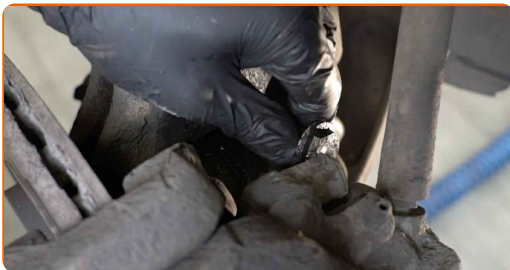


**26** Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #18. Use a ratchet wrench.



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

**28** Remove the fastening bolts.



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



**30** Attach the ball joint to the control arm.



**31** Remove the support from under the steering knuckle.



**AUTODOC recommends:**

- CITROËN BERLINGO Platform/Chassis (B9) – Do not lower the transmission jack sharply to avoid damaging components and mechanisms of the car.

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



**33** Install the fastening bolts.



**34** Screw in the fastener that connects the shock strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #18. Use a ratchet wrench.



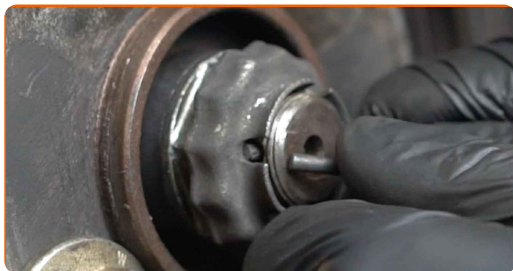
**35** Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #18. Use a torque wrench. Tighten it to 90 Nm torque.



**36** Tighten the drive shaft nut. Use a drive socket #36. Use a torque wrench. Tighten it to 280 Nm torque.



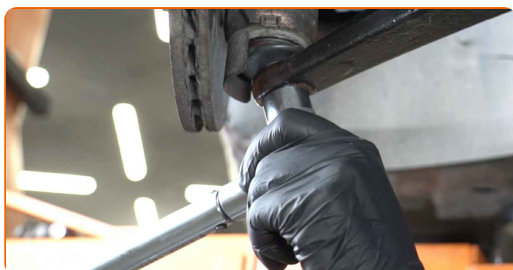
**37** Install the CV axle nut cotter pin. Use a crowbar. Use a hammer.



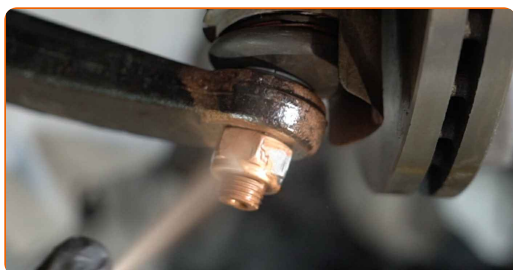
**38** Screw the fasteners of the ball joint. Use a drive socket #21. Use a ratchet wrench.



**39** Tighten the ball joint fastener. Use a drive socket #21. Use a torque wrench. Tighten it to 50 nm torque.



**40** Treat the fasteners of the ball joint. Treat the shock strut fasteners. Use copper grease.





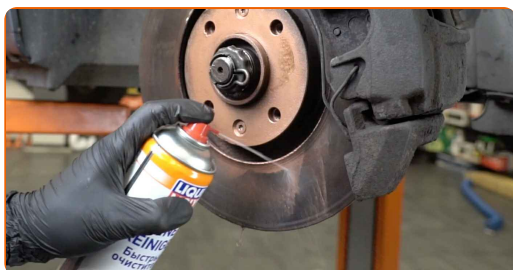
**41** Clean the wheel rim mounting seat. Use a wire brush.



**42** Treat the surface where the brake disc contacts the wheel rim. Use copper grease.



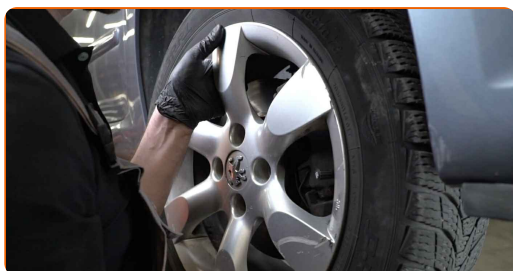
**43** Clean the brake disk surface. Use a brake cleaner.



**Replacement: ball joint – CITROËN BERLINGO Platform/Chassis (B9). Tip:**

- After applying the spray, wait a few minutes.

**44** Install the wheel.



**AUTODOC recommends:**

- **Warning!** To avoid injury, hold the wheel while screwing in the fastening bolts on the car. CITROËN BERLINGO Platform/Chassis (B9)

**45**

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



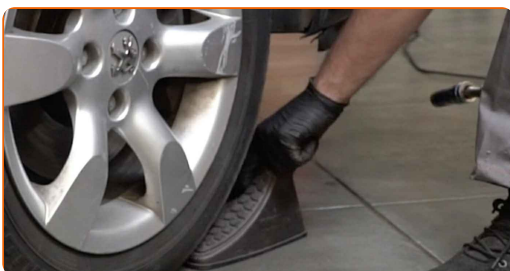
**46**

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 100 Nm torque.



**47**

Remove the jacks and chocks.



**WELL DONE!** 

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