



How to change front ball  
joint on **VAUXHALL**  
**Combo Mk I (B) Van**  
**(S93)** – replacement  
guide

## SIMILAR VIDEO TUTORIAL



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

### Important!

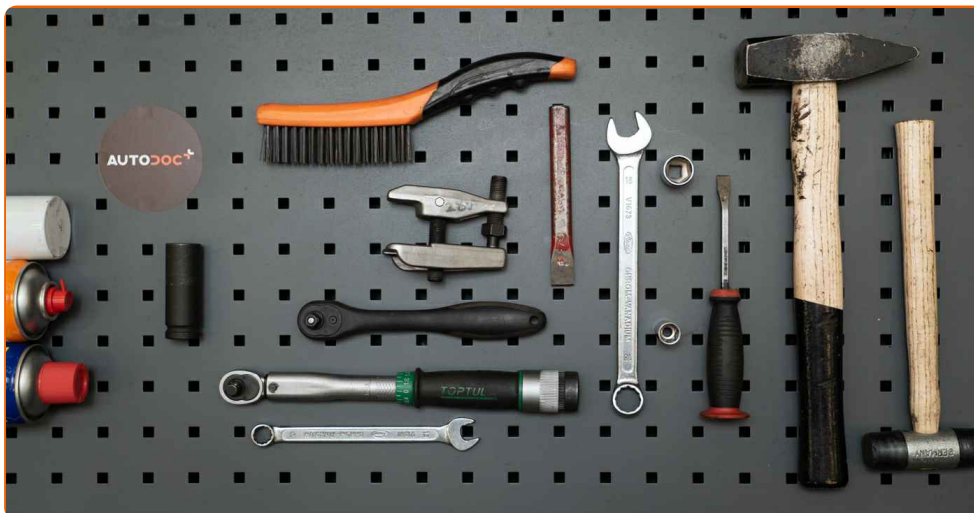
This replacement procedure can be used for:

VAUXHALL Combo Mk I (B) Van (S93) 1.4, VAUXHALL Combo Mk I (B) Van (S93) 1.7 D

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: OPEL Corsa B Hatchback (S93) 1.4 i (F08, F68, M68)

**REPLACEMENT: BALL JOINT – VAUXHALL COMBO MK I (B) VAN (S93). LIST OF THE TOOLS YOU'LL NEED:**



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #13
- Combination spanner #18
- Drive socket # 13
- Drive socket # 18
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Flat Screwdriver
- Crow bar
- Hammer
- Flat chisel
- Rubber mallet
- Ball joint puller
- Wheel chock

**Buy tools**

Replacement: ball joint – VAUXHALL Combo Mk I (B) Van (S93). 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 – VAUXHALL COMBO MK I (B) VAN (S93). USE THE FOLLOWING PROCEDURE:

**1** Secure the wheels with chocks.

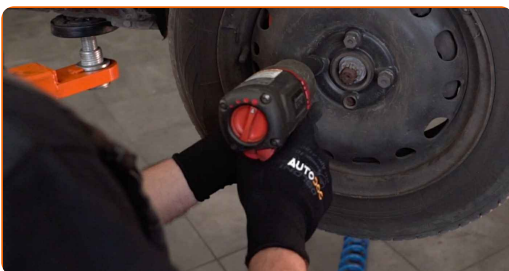


**2** Loosen the wheel mounting bolts. Use wheel impact socket #17.



**3** Raise the front of the car and secure on supports.

**4** Unscrew the wheel bolts.



Replacement: ball joint – VAUXHALL Combo Mk I (B) Van (S93). Tip:

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

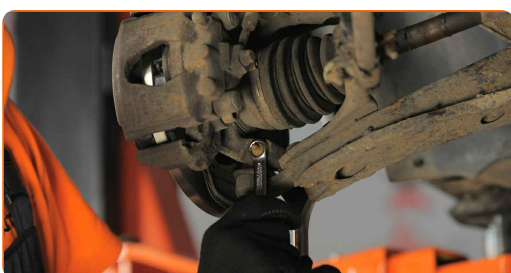
**5** Remove the wheel.



**6** Clean the fastener that connects the ball joint to the steering knuckle. Use a wire brush. Use WD-40 spray.



**7** Unscrew the ball joint fastening to the steering knuckle. Use a combination spanner #13. Use a drive socket #13. Use a ratchet wrench.



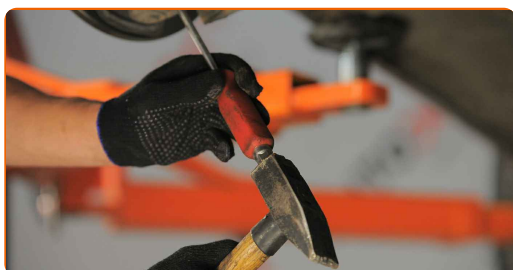
**8** Remove the fastening bolt. Use a hammer.



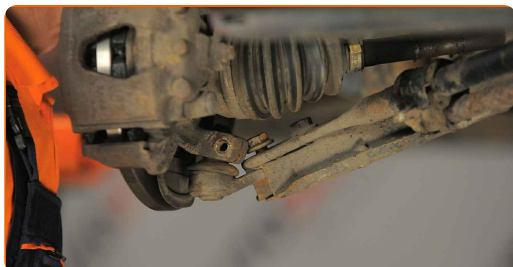
- 9 Unscrew the fastener connecting the ball joint to the suspension control arm. Use a combination spanner #18. Use a drive socket #18. Use a ratchet wrench.



- 10 Release the fastener connecting the ball joint to the steering knuckle. Use a flat metal-working chisel. Use a hammer.

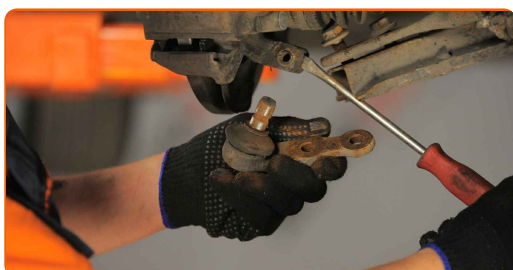


- 11 Disconnect the ball joint from the steering knuckle. Use a ball joint puller.



- 12 Disconnect the spherical joint from the arm.

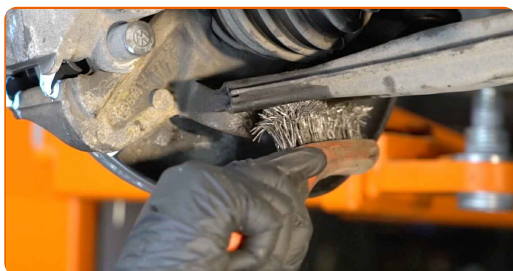
- 13 Remove the ball joint.



**14** Remove the fastening bolts (2 pieces). Use a flat screwdriver.



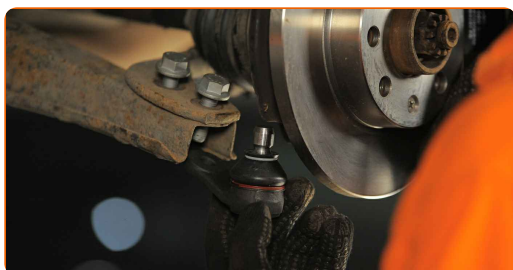
**15** Clean the ball joint mounting seat. Use a wire brush. Use WD-40 spray.



**16** Install the fastening bolts (2 pieces).



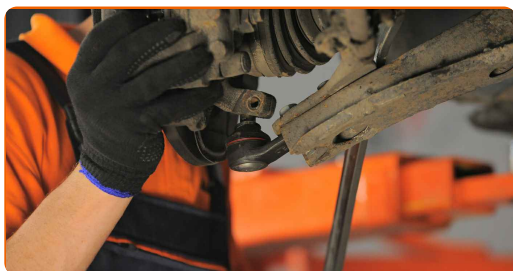
**17** Install a new ball joint.



Replacement: ball joint – VAUXHALL Combo Mk I (B) Van (S93). AUTODOC experts recommend:

- Do not damage the ball joint cover.

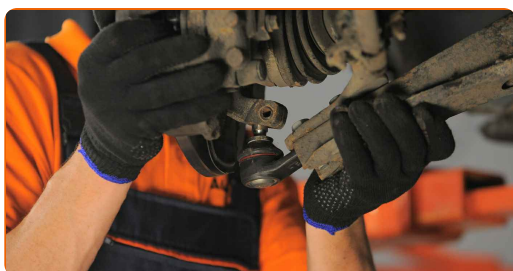
**18** Attach the ball joint to the control arm.



**19** Tighten the ball joint fastener. Use a combination spanner #18. Use a drive socket #18. Use a torque wrench. Tighten it to 55 nm torque.

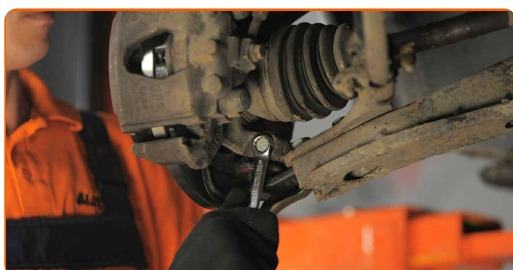


**20** Connect the ball joint to the steering knuckle. Use a crowbar. Use a rubber mallet.



**21** Install the fastening bolt.

**22** Tighten the ball joint fastener. Use a combination spanner #13. Use a drive socket #13. Use a torque wrench. Tighten it to 30 nm torque.



**23** Treat the fasteners of the ball joint. Use copper grease.



24

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



25

Clean the brake disk surface. Use a brake cleaner.



Replacement: ball joint – VAUXHALL Combo Mk I (B) Van (S93). Tip from AUTODOC:

- After applying the spray, wait a few minutes.

26

Install the wheel.

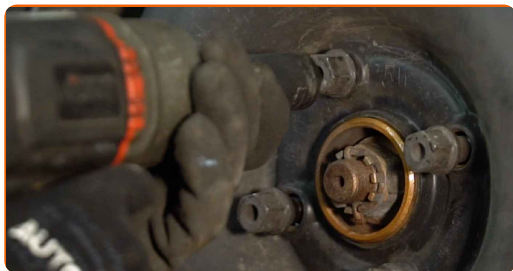


AUTODOC recommends:

- Important! Hold the wheel while screwing in the fastening bolts. VAUXHALL Combo Mk I (B) Van (S93)

27

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



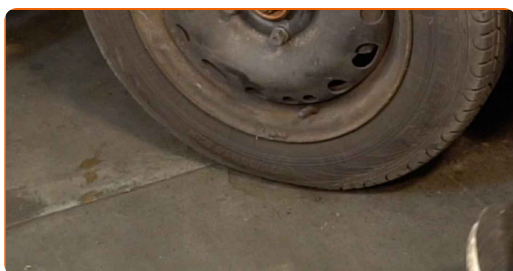
28

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 110 Nm torque.



29

Remove the jacks and chocks.



**WELL DONE!** 

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