



How to change front coil  
springs on **Opel Meriva**  
**X03** – replacement guide

## VIDEO TUTORIAL

** Important!**

This replacement procedure can be used for:

OPEL Meriva A (X03) 1.8 (E75), OPEL Meriva A (X03) 1.6 (E75), OPEL Meriva A (X03) 1.3 CDTI (E75)

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The steps may slightly vary depending on the car design.

REPLACEMENT: COIL SPRINGS – OPEL MERIVA X03.  
TOOLS YOU NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Torque wrench
- Combination spanner #18
- Drive socket # 8
- Drive socket # 9
- Drive socket # 13
- Drive socket # 18
- Drive socket # 19
- Wheel impact socket #17
- Shock absorber socket # DD9
- Ratchet wrench
- Tap wrench
- Flat Screwdriver
- Hydraulic strut spring compressor
- Hydraulic transmission jack
- Fender cover
- Wheel chock

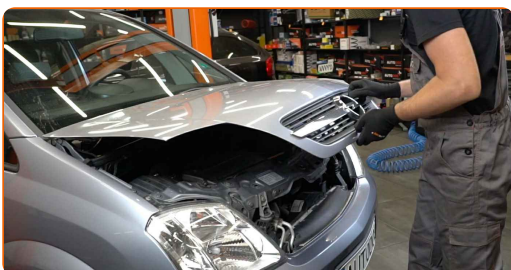
**BUY TOOLS**

Replacement: coil springs – Opel Meriva X03. AUTODOC recommends:

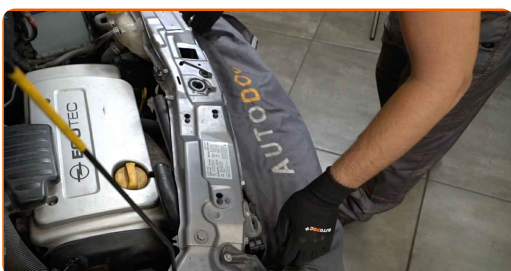
- Both coil springs of the front suspension should be replaced simultaneously.
- The replacement procedure is identical for the left and right coil springs of the front suspension.
- All work should be done with the engine stopped.

**REPLACEMENT: COIL SPRINGS – OPEL MERIVA X03.  
RECOMMENDED SEQUENCE OF STEPS:**

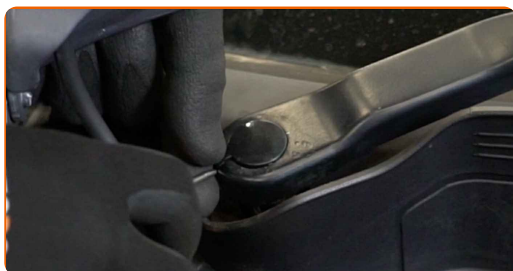
**1** Open the hood.



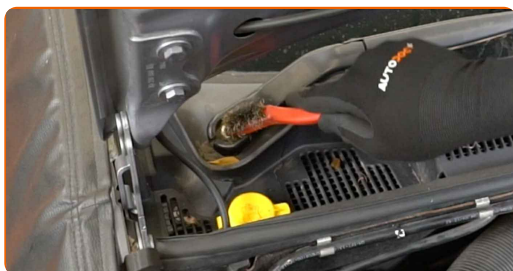
**2** Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.



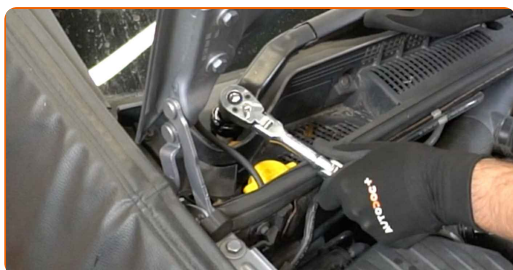
**3** Remove the windscreen wiper arm nut covers. Use a flat screwdriver.



**4** Clean the fasteners of the wiper arms. Use a wire brush. Use WD-40 spray.



**5** Unscrew the fasteners of the windscreen wiper arms. Use a drive socket #13. Use a ratchet wrench.

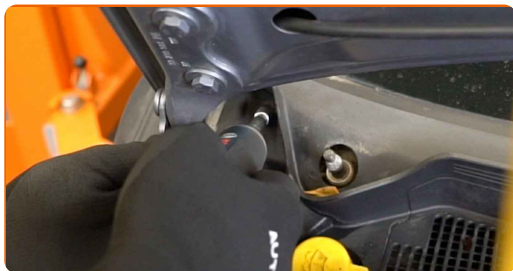


**6** Remove the wiper arms.



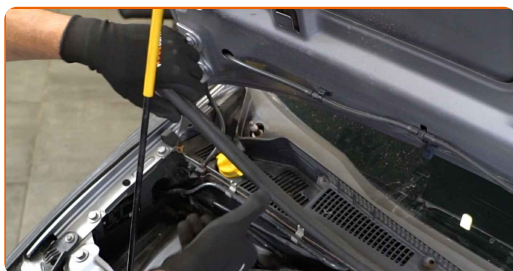
7

Unscrew the fasteners of the cowl grille. Use a drive socket #8. Use a ratchet wrench.



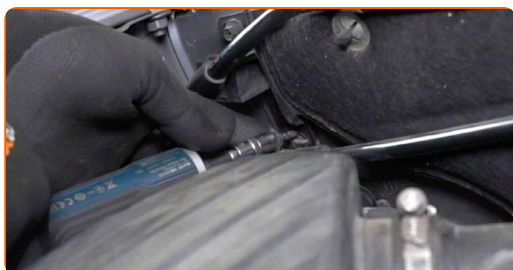
8

Remove the cowl grille seal.



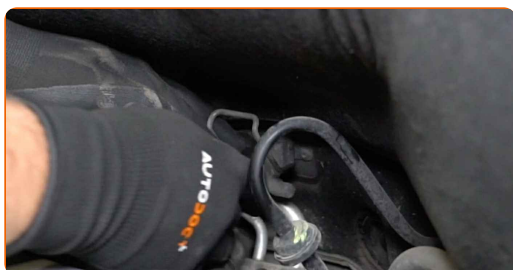
9

Unscrew the fasteners of the windscreen wiper scuttle tray. Use a drive socket #8. Use a ratchet wrench.



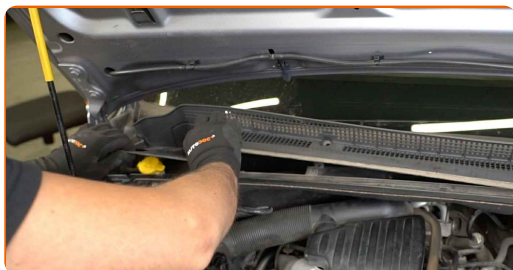
10

Release the engine bulkhead panel clips.

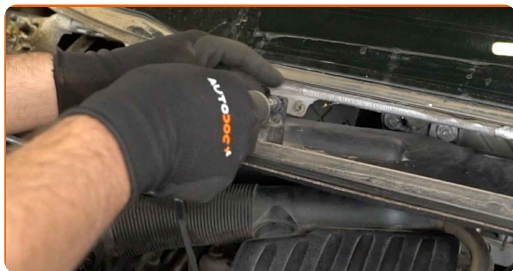


11

Raise up and remove the cowl grille.



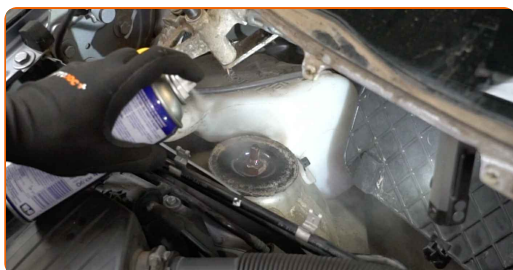
**12** Unscrew the fasteners of the windscreen wiper scuttle tray. Use a drive socket #8. Use a ratchet wrench.



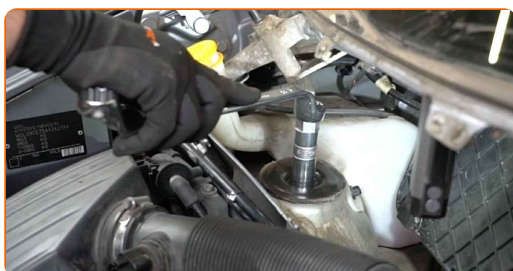
**13** Remove the windscreen wiper scuttle tray.



**14** Clean the fasteners of the shock strut upper mount. Use a wire brush. Use WD-40 spray.



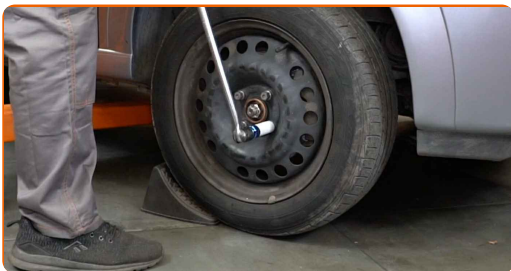
**15** Loosen the upper fastener of the shock strut mount. Use a drive socket #9. Use a drive socket #18. Use a ratchet wrench.



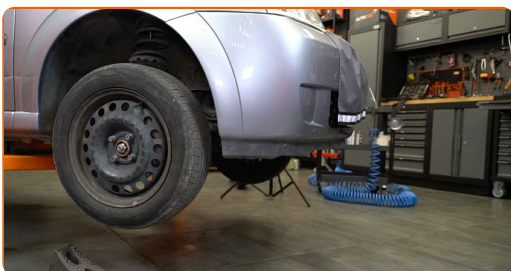
**16** Secure the wheels with chocks.



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



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



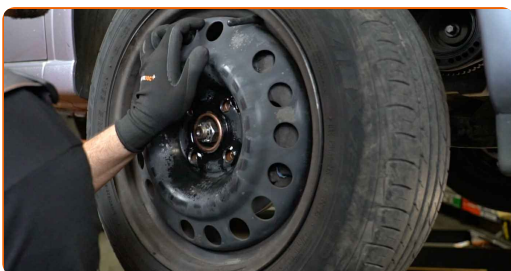
**19** Unscrew the wheel bolts.



**AUTODOC recommends:**

- Important! Hold the wheel while unscrewing the fastening bolts. Opel Meriva X03

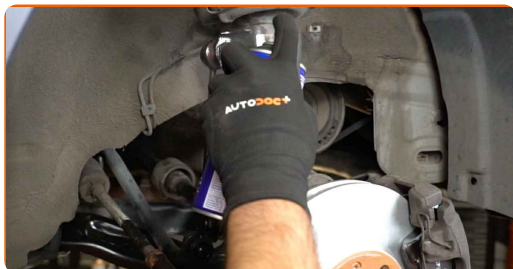
**20** Remove the wheel.





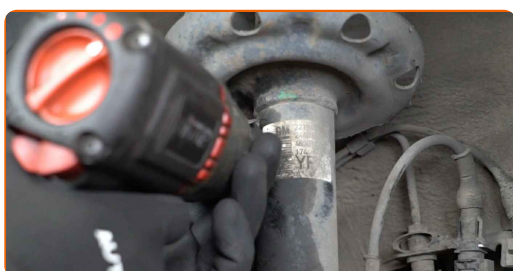
21

Clean the stabiliser link fasteners. Use a wire brush. Use WD-40 spray.



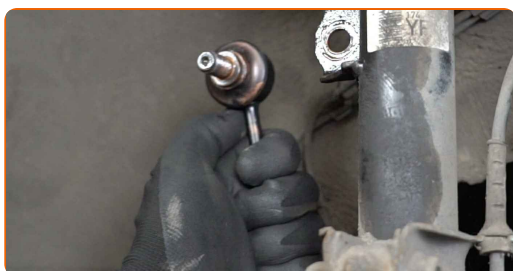
22

Unscrew the fastener connecting the stabilizer link to the shock strut. Use a drive socket #19. Use a ratchet wrench.



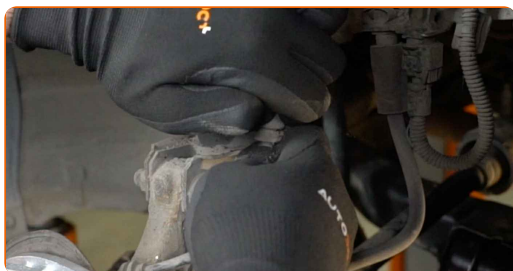
23

Remove the stabilizer rod.

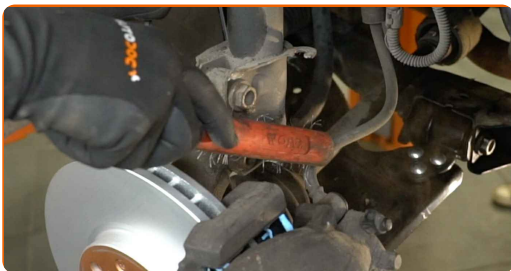


24

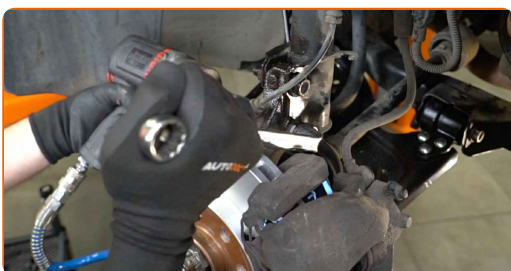
Disconnect the ABS sensor wiring.



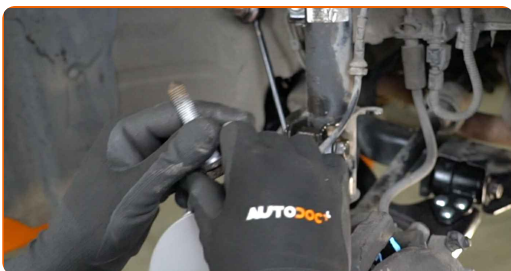
**25** Clean the fasteners connecting the shock strut to the steering knuckle. Use a wire brush. Use WD-40 spray.



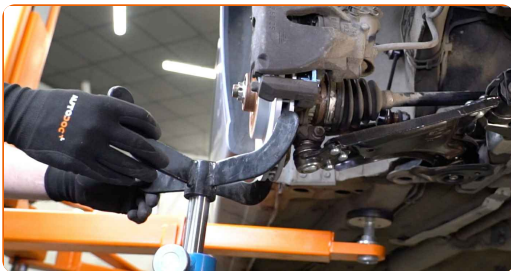
**26** Unscrew the fasteners connecting the suspension strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #18. Use a tap wrench.



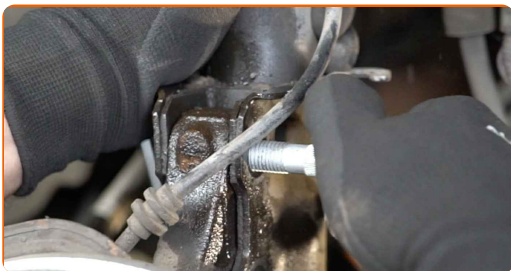
**27** Remove the fastening bolt.



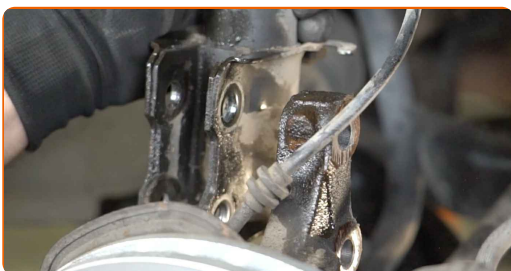
**28** Prop up the steering knuckle. Use a hydraulic transmission jack.



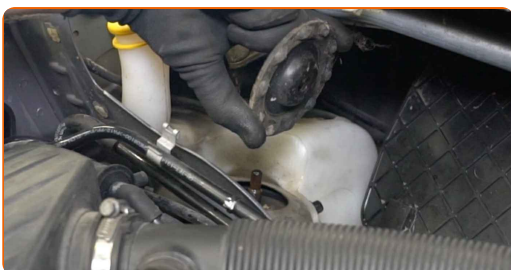
**29** Remove the fastening bolt.



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



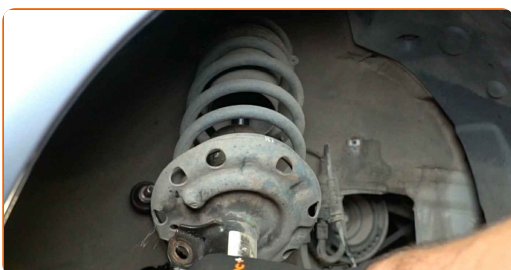
**31** Unscrew the top fastening of the shock strut mount.



**AUTODOC recommends:**

- Opel Meriva X03 – To avoid injury, hold the suspension strut while unscrewing the fastening bolts.

**32** Remove the suspension strut.



**33**

Set the shock absorber strut on the spring compressor tool.

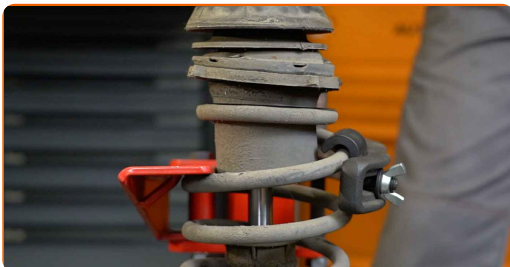


**Replacement: coil springs – Opel Meriva X03. AUTODOC experts recommend:**

- Note that when using a spring compressor, spring coils need to be securely gripped, compressing the spring on the opposite sides.
- Ensure the correct position of the spring in the retainer.
- Make sure that the spring coils tightly entered the lock handles.

**34**

Compress the spring.



**35**

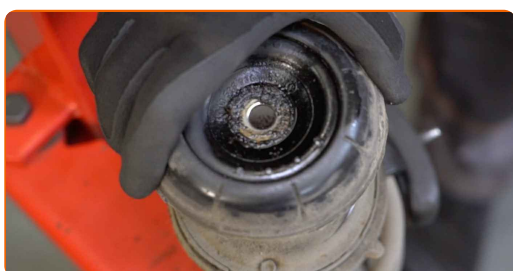
Treat the shock strut rod. Use a wire brush. Use WD-40 spray.



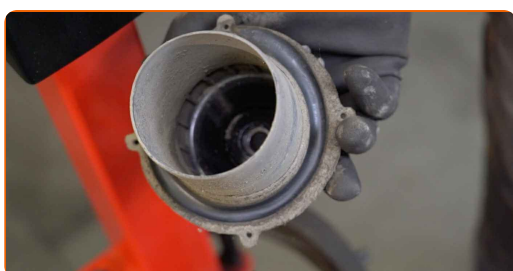
- 36** Remove the strut piston rod nut. Use a shock absorber socket N°DD9. Use a combination spanner #18. Use a ratchet wrench.



- 37** Remove the top strut mount.



- 38** Remove the shock absorber dust cap and the bump stop.



**AUTODOC recommends:**

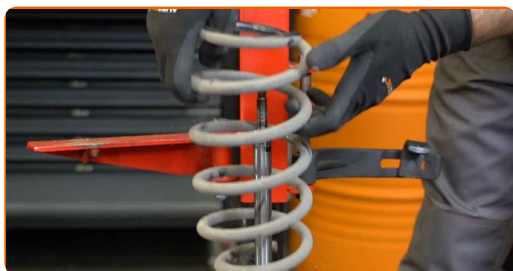
- Replacement: coil springs – Opel Meriva X03. Carefully inspect the mount, the boot, and the bump stop of the shock absorber. Replace if necessary.

- 39** Release the coil spring.





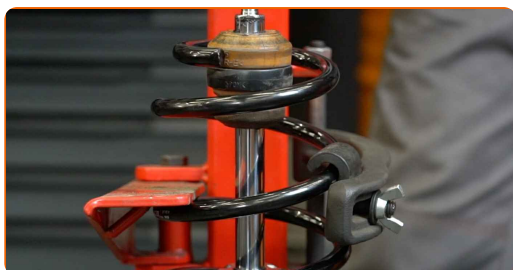
**40** Remove the spring.



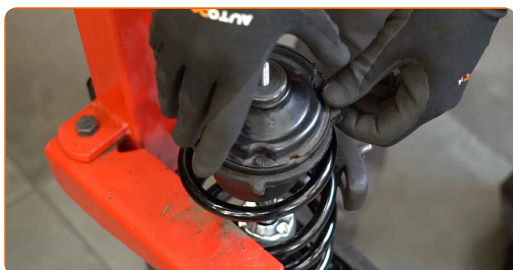
**41** Install the spring on the shock absorber.



**42** Compress the spring.



**43** Install the mount, the boot and the bump stop on the shock absorber.

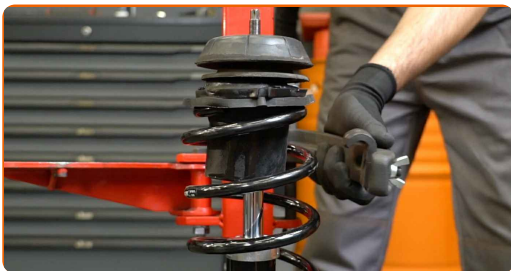


**44** Tighten the shock strut piston rod nut. Use a shock absorber socket N°DD9. Use a combination spanner #18. Use a torque wrench. Tighten it to 50 Nm torque.





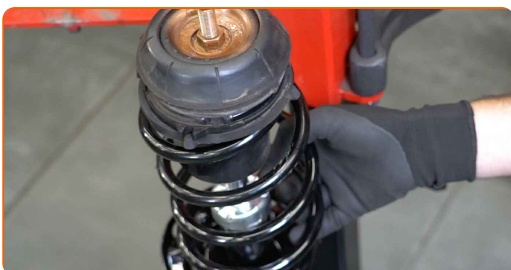
45 Decompress the spring.



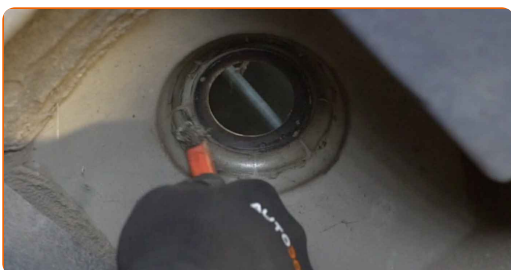
46 Treat the shock strut rod. Use copper grease.



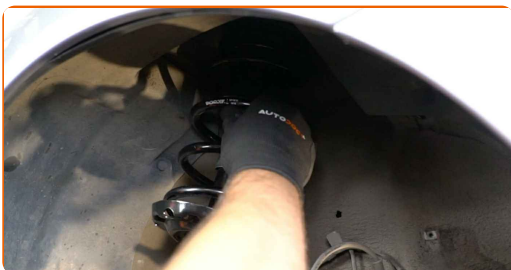
47 Remove the assembled shock strut.



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

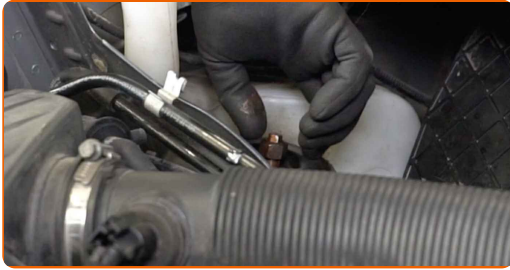


49 Install the shock strut into the wheel arch.



**50**

Screw the top fastening of the shock strut mount Do not tighten it.



**AUTODOC recommends:**

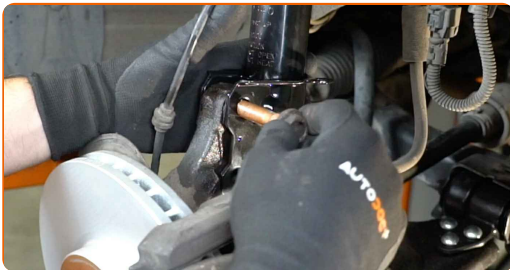
- Opel Meriva X03 – To avoid injury, hold the suspension strut while screwing in the fastening bolts.

**51**

Fix the shock absorber strut on the steering knuckle.

**52**

Install the fastening bolts.



**53**

Screw in the fasteners connecting the suspension strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #18. Use a ratchet wrench.



54

Remove the support from under the steering knuckle.



**AUTODOC recommends:**

- Opel Meriva X03 – Do not lower the transmission jack sharply to avoid damaging components and mechanisms of the car.

55

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 80 Nm torque.+60°

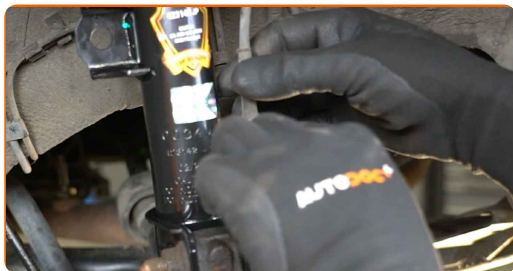


**AUTODOC recommends:**

- Important! Be sure to use new fasteners.

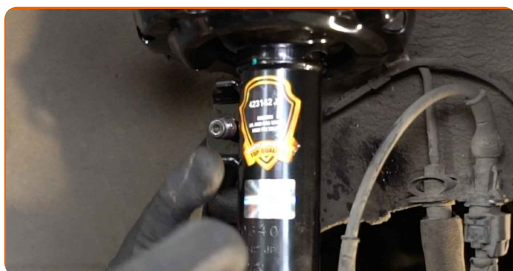
56

Connect the ABS sensor wiring.



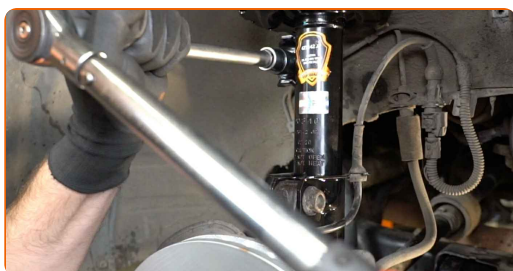
57

Install the transverse stabilizer link.



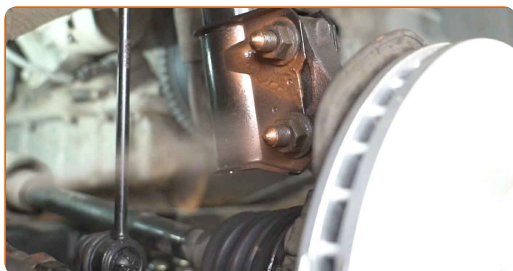
58

Tighten the fastener connecting the stabilizer link to the shock strut. Use a drive socket #19. Use a torque wrench. Tighten it to 55 Nm torque.



59

Treat the shock strut fasteners. Use copper grease.



**60**

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



**61**

Clean the brake disk surface. Use a brake cleaner.



**AUTODOC recommends:**

- Replacement: coil springs – Opel Meriva X03. After applying the spray, wait a few minutes.

**62**

Install the wheel.



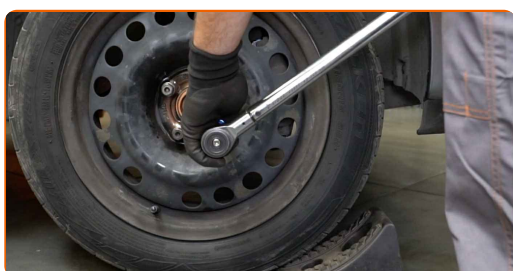
**AUTODOC recommends:**

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. Opel Meriva X03

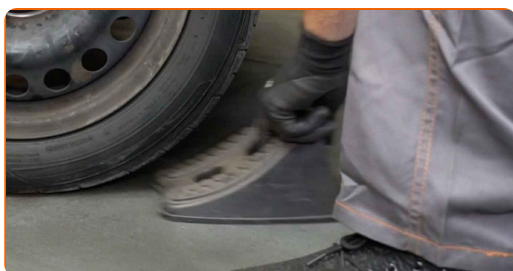
**63** Screw in the wheel bolts. Use wheel impact socket #17.



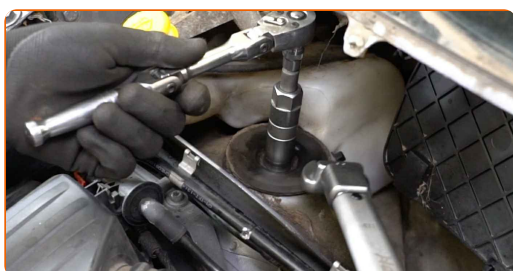
**64** Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #17. Use a torque wrench. Tighten it to 110 Nm torque.



**65** Remove the jacks and chocks.



**66** Tighten the upper fastener of the shock absorber strut mount. Use a shock absorber socket N°DD9. Use a combination spanner #18. Use a torque wrench. Tighten it to 50 Nm torque.





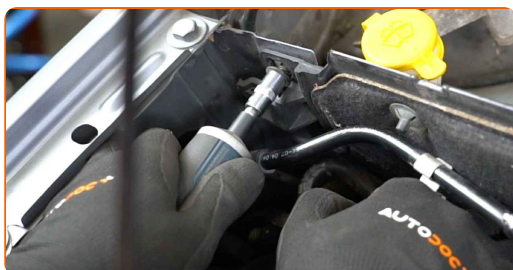
**67** Treat the fasteners of the shock strut mount. Use copper grease.



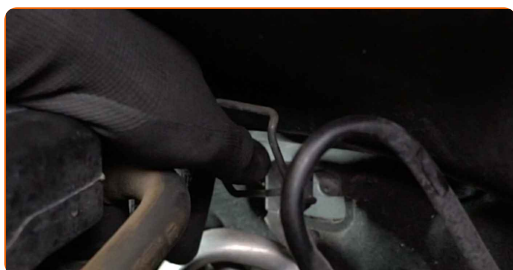
**68** Install the windscreen wiper scuttle tray.



**69** Screw in the fasteners of the windscreen wiper scuttle tray. Use a drive socket #8. Use a ratchet wrench.



**70** Attach the cabin filter cover clips.



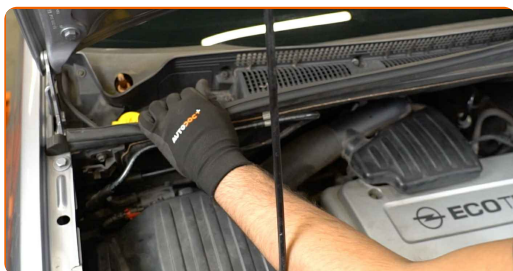
71

Install and secure the cowl grille. Use a drive socket #8. Use a ratchet wrench.



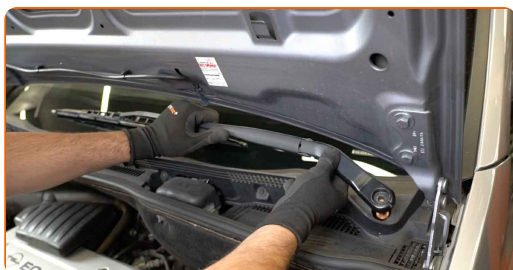
72

Install the cowl grille seal.



73

Reinstall the wiper arms.



Replacement: coil springs – Opel Meriva X03. Tip from AUTODOC experts:

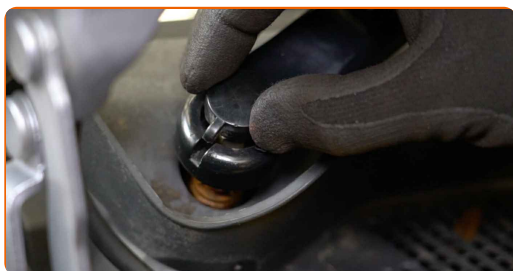
- Make sure not to mix up the wiper arms on the driver's and passenger's sides.

**74**

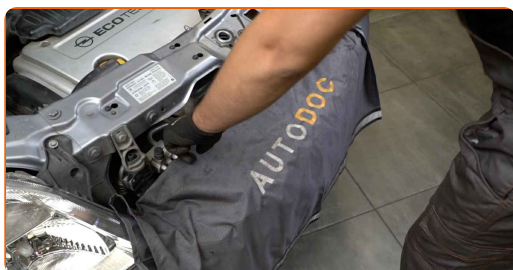
Tighten the wiper arm fasteners. Use a drive socket #13. Use a torque wrench. Tighten it to 22 nm torque.

**75**

Install the nut covers of the windscreen wiper arms.

**76**

Remove the fender protection cover.

**77**

Close the hood.



**WELL DONE!** 

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