



How to change front coil  
springs on **VAUXHALL**  
**Meriva Mk I (A) (X03)** –  
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 Meriva Mk I (A) (X03) 1.6 i, VAUXHALL Meriva Mk I (A) (X03) 1.6 i 16V, VAUXHALL Meriva Mk I (A) (X03) 1.8 i 16V, VAUXHALL Meriva Mk I (A) (X03) 1.3 CDTI, VAUXHALL Meriva Mk I (A) (X03) 1.4 16V Twinport, VAUXHALL Meriva Mk I (A) (X03) 1.6 i 16V Twinport

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 Meriva A (X03) 1.6 16V (E75)

**REPLACEMENT: COIL SPRINGS – VAUXHALL MERIVA  
MK I (A) (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 – VAUXHALL Meriva Mk I (A) (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 – VAUXHALL MERIVA MK I (A) (X03). RECOMMENDED SEQUENCE OF STEPS:

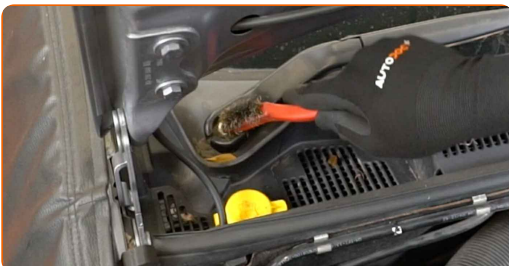
**1** Open the hood.

**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.



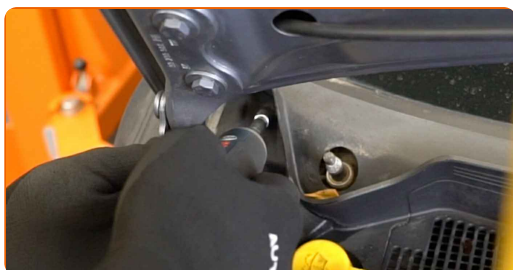
6

Remove the wiper arms.



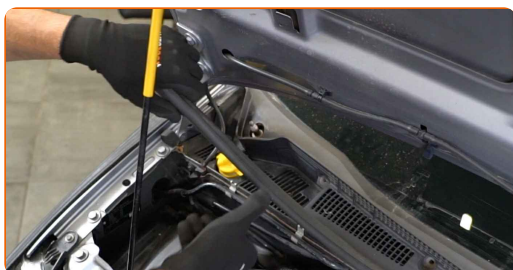
7

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

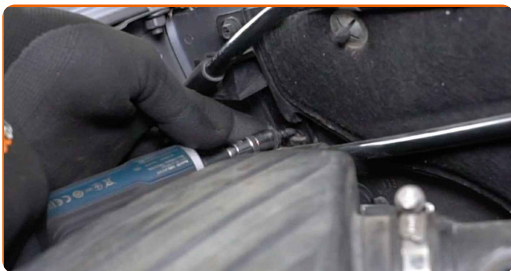


8

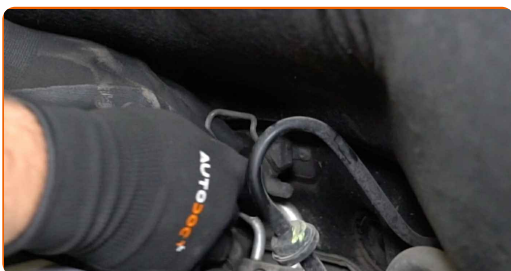
Remove the cowl grille seal.



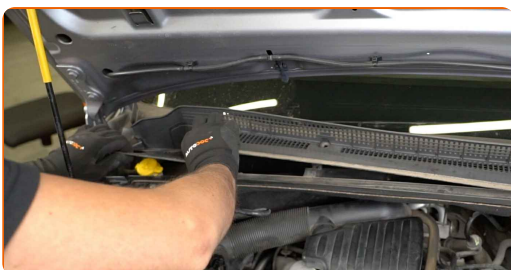
**9** Unscrew the fasteners of the windscreen wiper scuttle tray. Use a drive socket #8. Use a ratchet wrench.



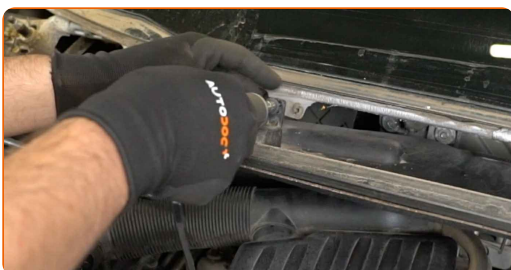
**10** Release the engine bulkhead panel clips.



**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.

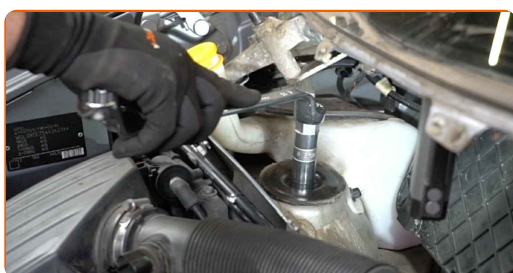




**14** Clean the fasteners of the shock strut upper mount. Use a wire brush. Use WD-40 spray.

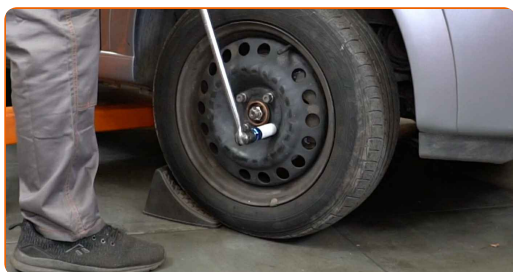


**15** Loosen the upper fastener of the shock strut mount. Use a drive socket #9. Use a drive socket #18. Use a ratchet wrench.



**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. VAUXHALL Meriva Mk I (A) (X03)

20

Remove the wheel.



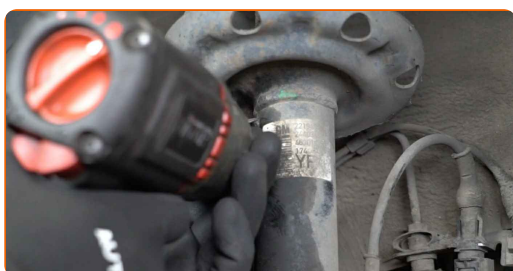
21

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



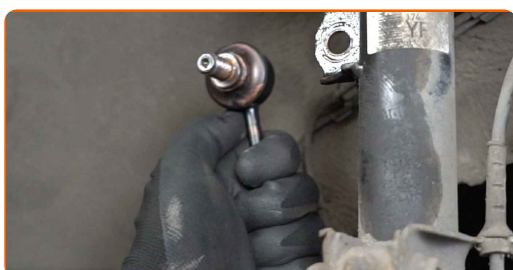
22

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.





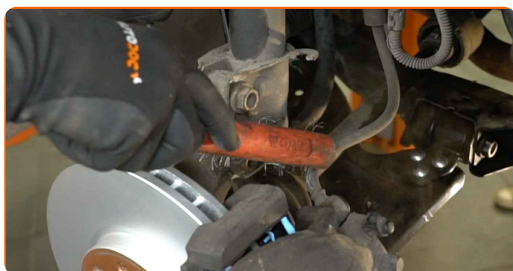
24

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.



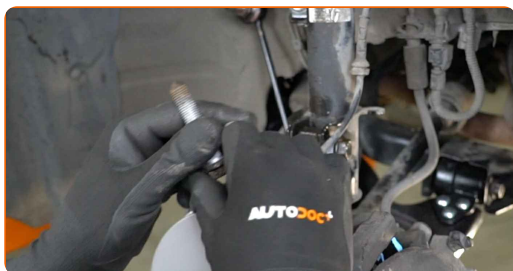
26

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.

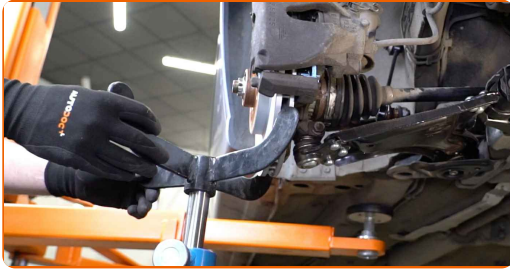


27

Remove the fastening bolt.



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



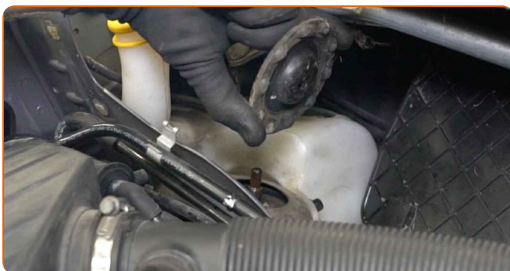
**29** Remove the fastening bolt.



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



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



**AUTODOC recommends:**

- VAUXHALL Meriva Mk I (A) (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.

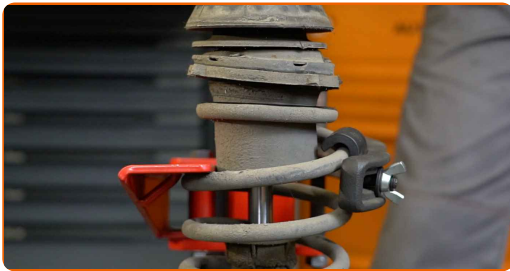


Replacement: coil springs – VAUXHALL Meriva Mk I (A) (X03). AUTODOC experts recommend:

- 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.



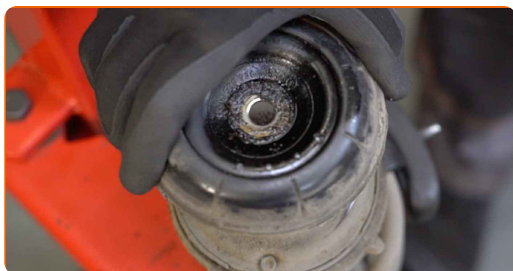
**35** Treat the shock strut rod. Use a wire brush. Use WD-40 spray.



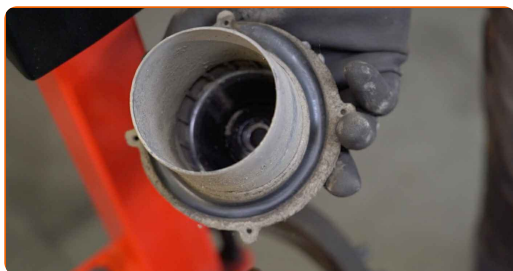
**36** Remove the strut piston rod nut. Use a shock absorber socket N°DD9. Use a combination spanner #18. Use a ratchet wrench.



**37** Remove the top strut mount.



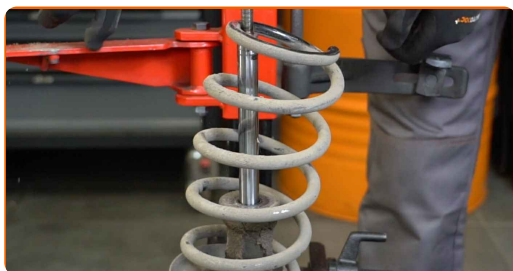
**38** Remove the shock absorber dust cap and the bump stop.



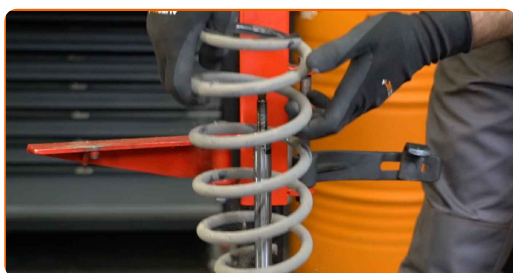
**AUTODOC recommends:**

- Replacement: coil springs – VAUXHALL Meriva Mk I (A) (X03). Carefully inspect the mount, the boot, and the bump stop of the shock absorber. Replace if necessary.

**39** Release the coil spring.



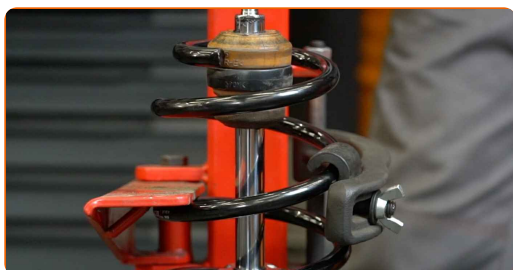
**40** Remove the spring.



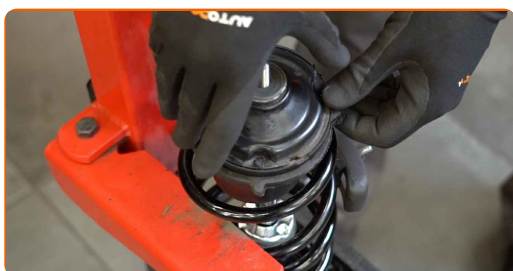
**41** Install the spring on the shock absorber.



**42** Compress the spring.



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

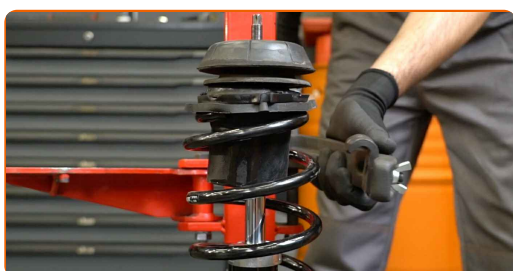




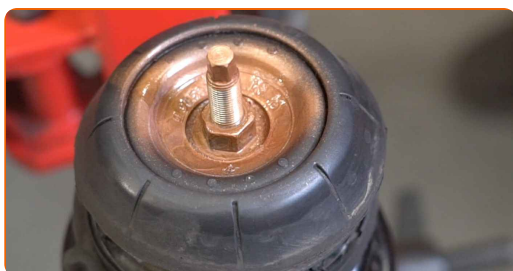
- 44 Tighten the shock strut piston rod nut. Use a shock absorber socket N°DD9. Use a combination spanner #18. Use a torque wrench. Tighten it to 50 Nm torque.



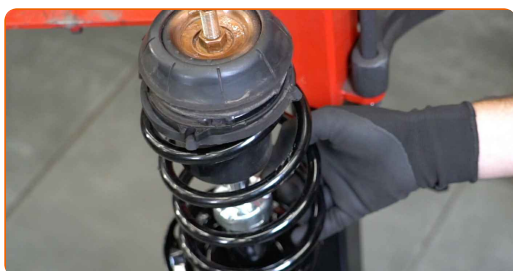
- 45 Decompress the spring.



- 46 Treat the shock strut rod. Use copper grease.

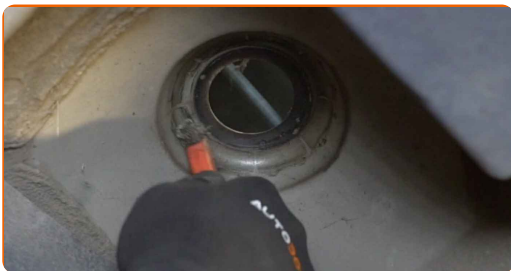


- 47 Remove the assembled shock strut.





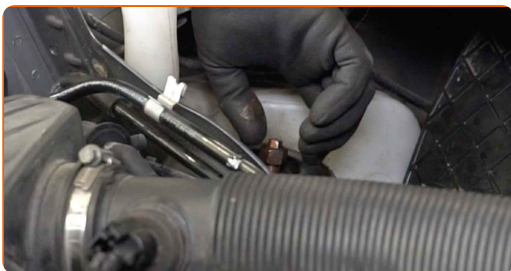
**48** Clean the mounting seats of the shock strut. Use a wire brush. Use WD-40 spray.



**49** Install the shock strut into the wheel arch.



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

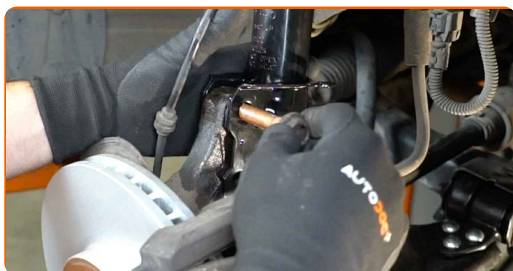


**AUTODOC recommends:**

- VAUXHALL Meriva Mk I (A) (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.



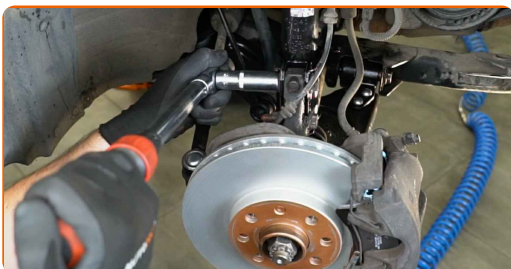
**54** Remove the support from under the steering knuckle.



**AUTODOC recommends:**

- VAUXHALL Meriva Mk I (A) (X03) – Do not lower the transmission jack sharply to avoid damaging components and mechanisms of the car.

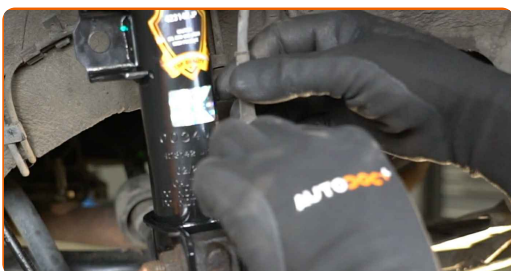
- 55** Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #18. Use a torque wrench. Tighten it to 80 Nm torque.+60°



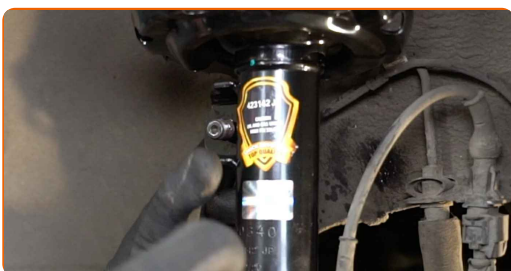
**AUTODOC recommends:**

- Important! Be sure to use new fasteners.

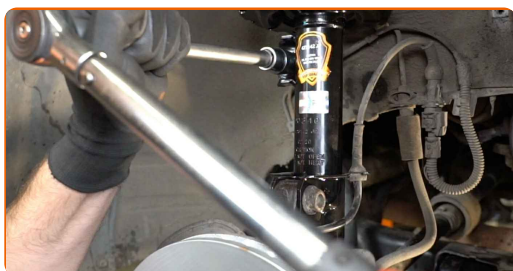
- 56** Connect the ABS sensor wiring.



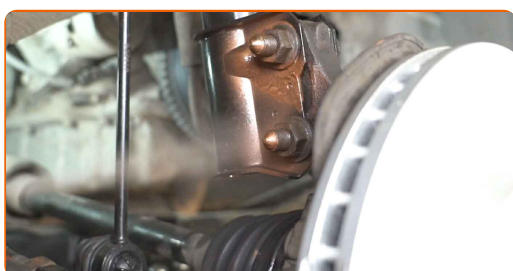
- 57** Install the transverse stabilizer link.



- 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.



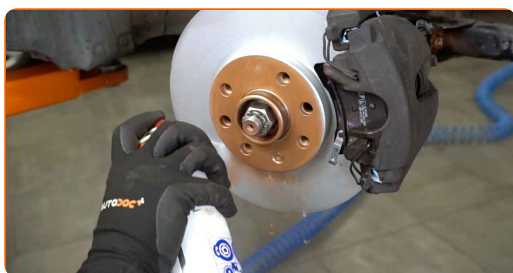
- 59 Treat the shock strut fasteners. Use copper grease.



- 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 – VAUXHALL Meriva Mk I (A) (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. VAUXHALL Meriva Mk I (A) (X03)

**63**

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



**64**

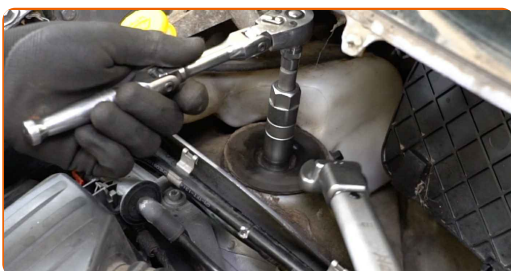
Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #17. Use a torque wrench. Tighten it to 110 Nm torque.



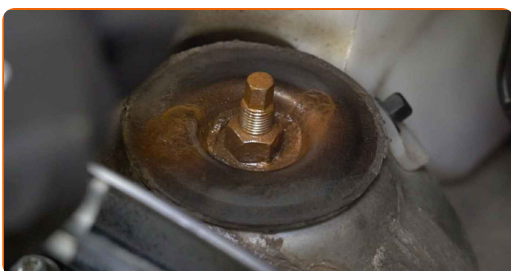
**65** Remove the jacks and chocks.



**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.



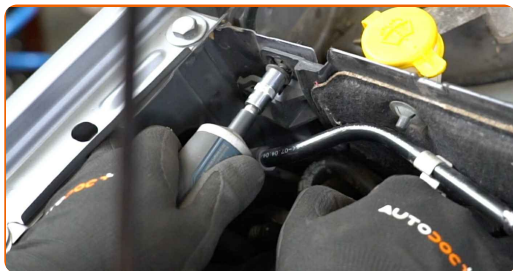
**68** Install the windscreen wiper scuttle tray.





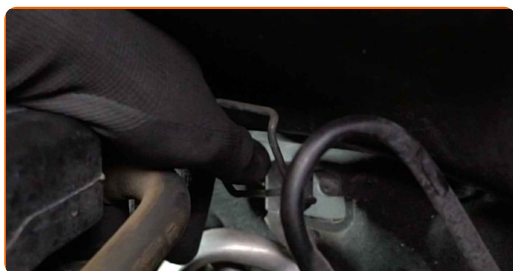
69

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



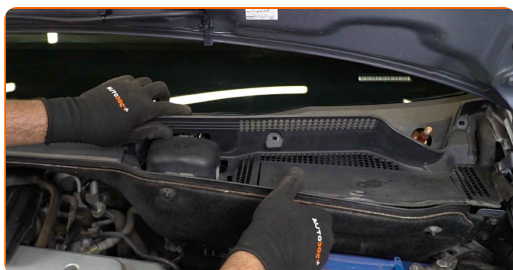
70

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 – VAUXHALL Meriva Mk I (A) (X03). Tip from AUTODOC experts:

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

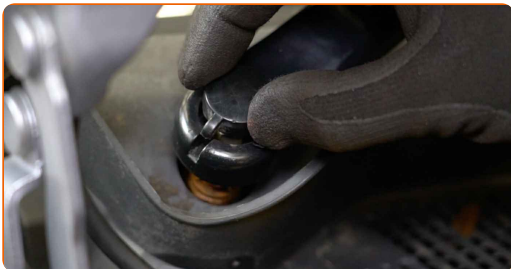
74

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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