



How to change front coil  
springs on **RENAULT**  
**Modus / Grand Modus**  
**(F, JP)** – 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:

RENAULT Modus / Grand Modus (F, JP) 1.5 dCi 75, RENAULT Modus / Grand Modus (F, JP) 1.5 dCi 90, RENAULT Modus / Grand Modus (F, JP) 1.6, RENAULT Modus / Grand Modus (F, JP) 1.5 dCi

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: RENAULT Clío III Hatchback (BR0/1, CR0/1) 1.5 dCi

**REPLACEMENT: COIL SPRINGS – RENAULT MODUS / GRAND MODUS (F, JP). TOOLS YOU MIGHT NEED:**



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Torque wrench
- Combination spanner #18
- Drive socket # 10
- Drive socket # 13
- Drive socket # 16
- Drive socket # 18
- HEX bit No.H6.
- Wheel impact socket #17
- Ratchet wrench
- Tap wrench
- Crow bar
- Clip removal tool
- Hydraulic strut spring compressor
- Hydraulic transmission jack
- Fender cover
- Wheel chock

**Buy tools**

Replacement: coil springs – RENAULT Modus / Grand Modus (F, JP).  
AUTODOC experts recommend:

- 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 – RENAULT MODUS / GRAND MODUS (F, JP). RECOMMENDED SEQUENCE OF STEPS:

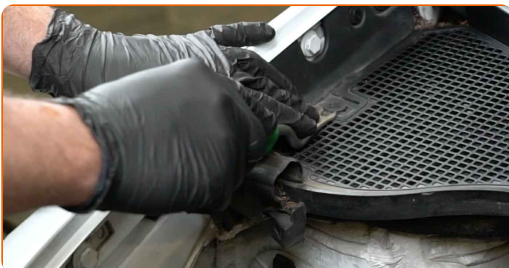
**1** Open the bonnet.

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

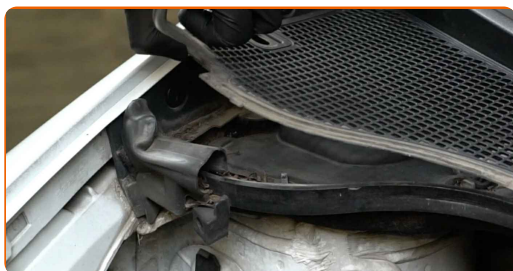
**3** Remove the cowl grille seal.



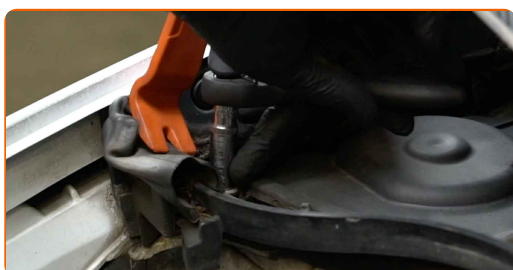
**4** Remove the cowl grille clips. Use a clip removal tool.



**5** Raise up and remove the cowl grille.



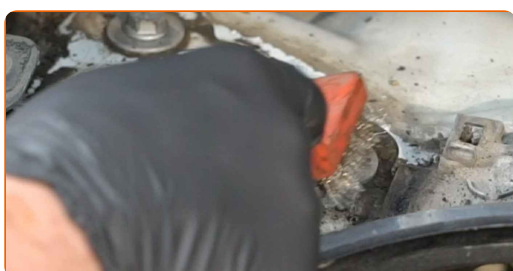
**6** Unscrew the fasteners of the suspension strut mount cover. Use a drive socket #10. Use a ratchet wrench.



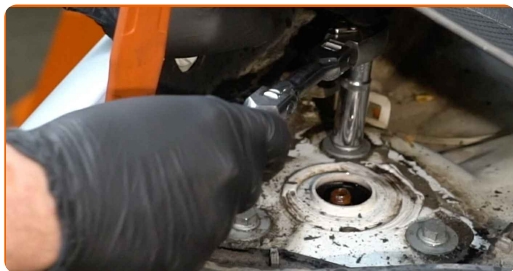
**7** Remove the protective cap from the shock absorber strut mount.



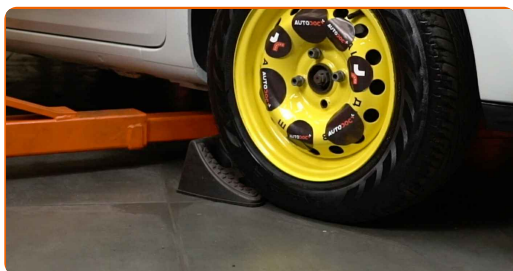
**8** Clean the fasteners of the shock strut upper mount. Use a wire brush. Use WD-40 spray.



**9** Loosen the upper fastener of the shock strut mount. Use a drive socket #13. Use a ratchet wrench.



**10** Secure the wheels with chocks.

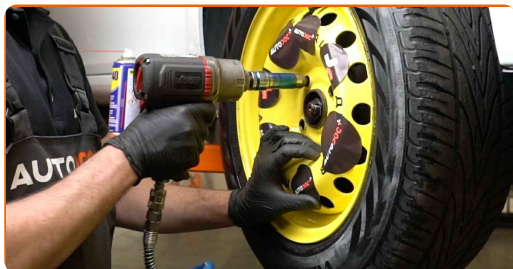


**11** Loosen the wheel mounting bolts. Use wheel impact socket #17.



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

**13** Unscrew the wheel bolts.

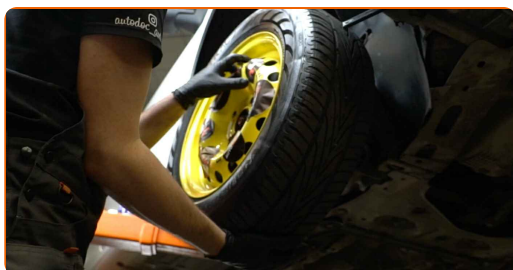


Replacement: coil springs – RENAULT Modus / Grand Modus (F, JP).  
Professionals recommend:

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

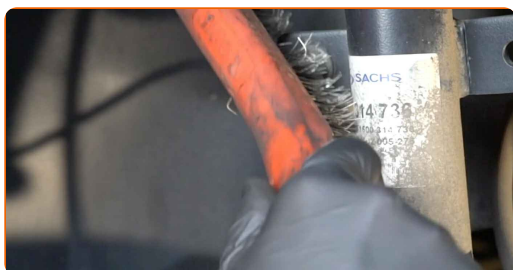
14

Remove the wheel.



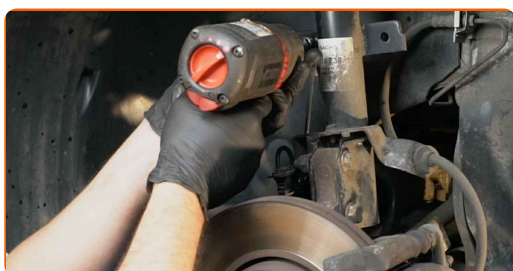
15

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



16

Unscrew the fastener connecting the stabilizer link to the shock strut. Use a drive socket #16. Use a ratchet wrench.



17

Remove the stabilizer rod.



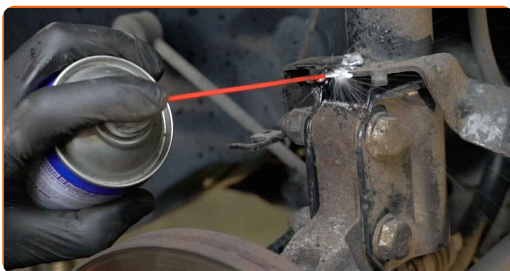
**18**

Disconnect the ABS sensor wiring. Use a crowbar.



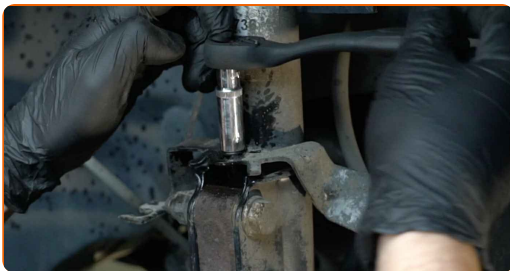
**19**

Clean the fastener of the bracket that connects the brake hose to the shock strut. Use a wire brush. Use WD-40 spray.



**20**

Unscrew the brake hose fastening bracket from the shock strut. Use a drive socket #10. Use a ratchet wrench.

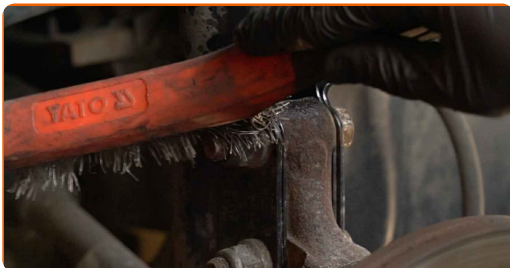


**21**

Disconnect the brake hose mounting bracket.

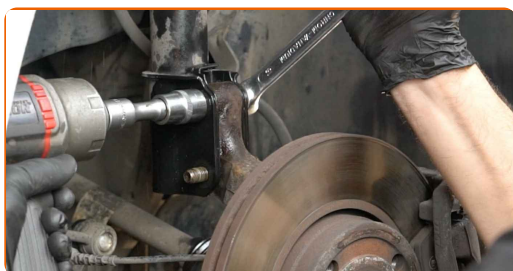
**22**

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

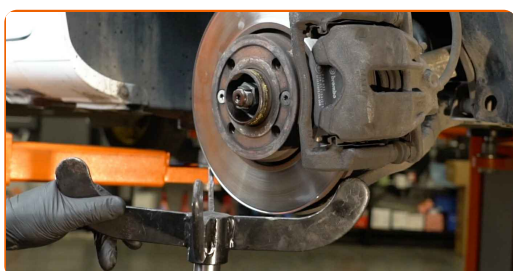




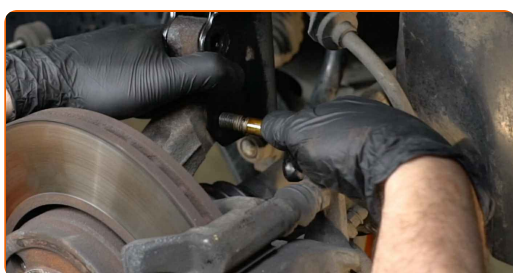
- 23 Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #18. Use a tap wrench.



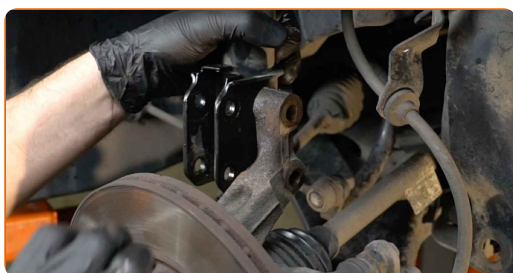
- 24 Prop up the steering knuckle. Use a hydraulic transmission jack.



- 25 Remove the fastening bolts.



- 26 Disconnect the steering knuckle from the shock absorber strut.



- 27 Unscrew the top fastening of the shock strut mount.

Replacement: coil springs – RENAULT Modus / Grand Modus (F, JP). Tip:

- To avoid injuries, hold the shock strut when undoing the fastening bolts.

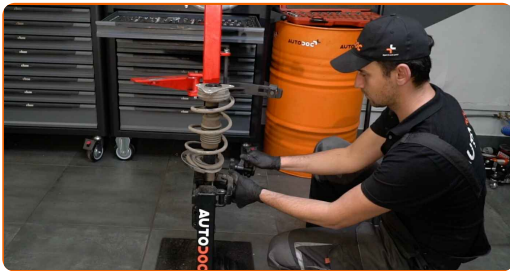
28

Remove the suspension strut.



29

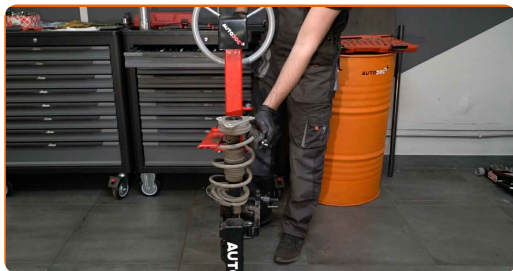
Set the shock absorber strut on the spring compressor tool.



Replacement: coil springs – RENAULT Modus / Grand Modus (F, JP).  
AUTODOC recommends:

- 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.

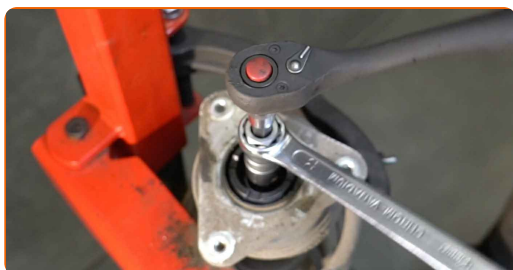
**30** Compress the spring.



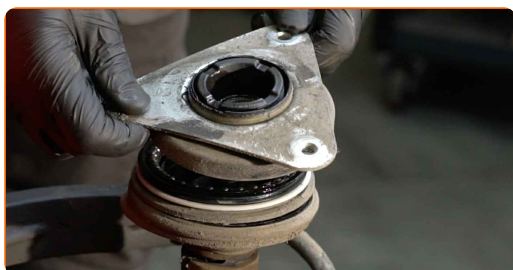
**31** Treat the shock strut rod. Use a wire brush. Use WD-40 spray.



**32** Remove the strut piston rod nut. Use HEX No.H6. Use a drive socket #18. Use a ratchet wrench.



**33** Remove the top strut mount.



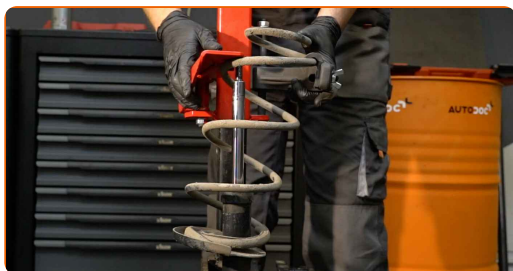
**34** Remove the shock absorber dust cap and the bump stop.



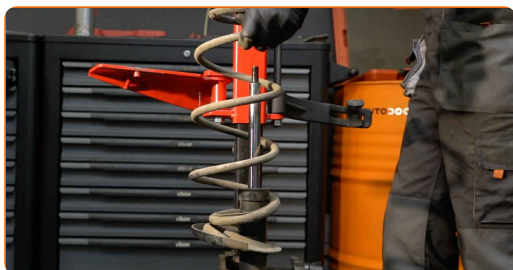
Replacement: coil springs – RENAULT Modus / Grand Modus (F, JP).  
AUTODOC experts recommend:

- Thoroughly examine the shock absorber mount, dust boot, bump stop. Replace them if necessary.

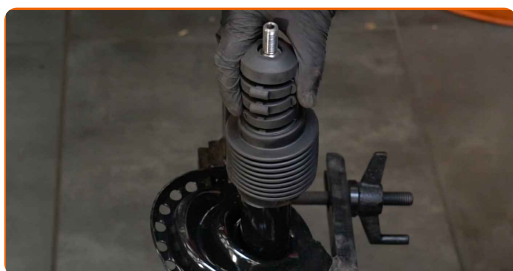
**35** Release the coil spring.



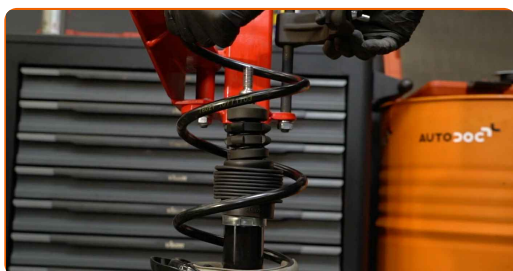
**36** Remove the spring.



**37** Install the boot and a bump stop onto the shock absorber.



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



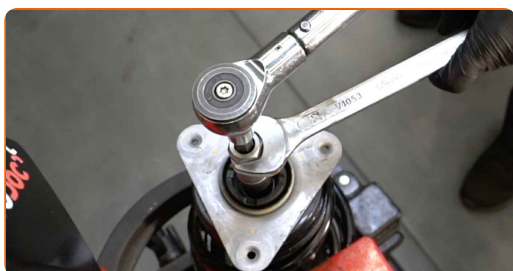
**39** Compress the spring.



**40** Install the upper strut mount and the strut mount bearing.



**41** Tighten the shock strut piston rod nut. Use a drive socket #18. Use HEX No.H6. Use a torque wrench. Tighten it to 62 Nm torque.



Replacement: coil springs – RENAULT Modus / Grand Modus (F, JP). Tip from AUTODOC experts:

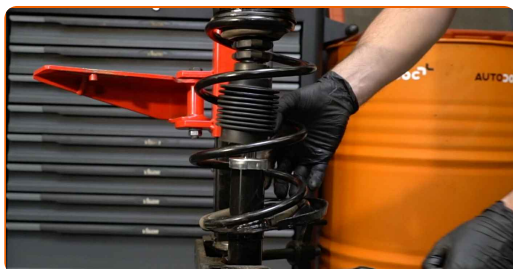
- Check to make sure the spring is positioned correctly. Avoid its misalignment.

**42** Treat the shock strut rod. Use copper grease.

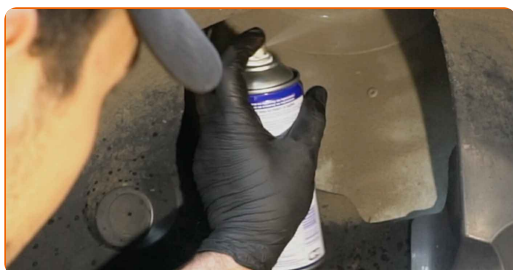
**43** Decompress the spring.



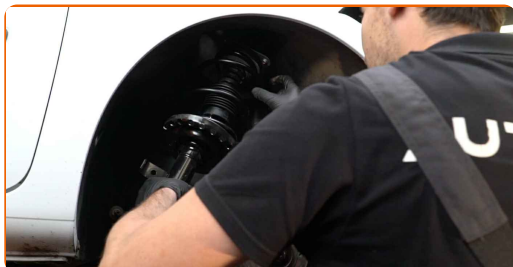
**44** Remove the assembled shock strut.



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



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



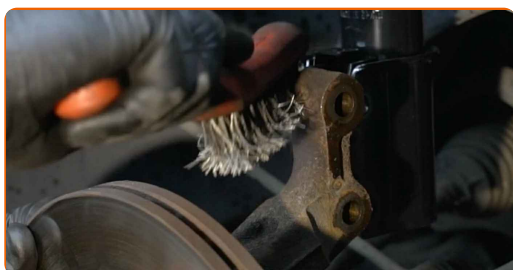
**47** Screw the top fastening of the shock strut mount. Do not tighten it.

**AUTODOC recommends:**

- Important! Hold the suspension strut while screwing in the fastening bolts.  
RENAULT Modus / Grand Modus (F, JP)

**48**

Treat the shock strut mounting seat on the steering knuckle. Use a wire brush. Use WD-40 spray.



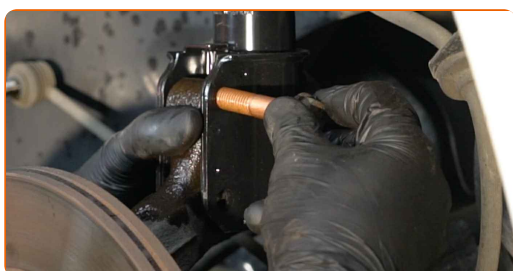
**49**

Fix the shock absorber strut on the steering knuckle.



**50**

Install the fastening bolts.



**51**

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.



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

Replacement: coil springs – RENAULT Modus / Grand Modus (F, JP). Tip from AUTODOC experts:

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

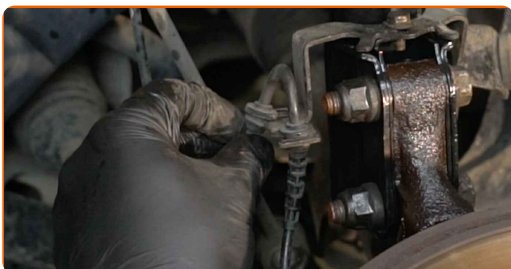
**53** Secure the brake hose fastening bracket.



**54** Tighten the brake hose fastening bracket to the shock strut. Use a drive socket #10. Use a ratchet wrench.

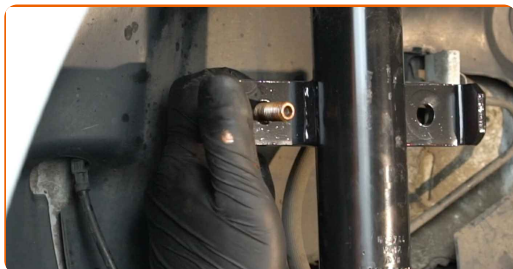


**55** Connect the ABS sensor wiring.

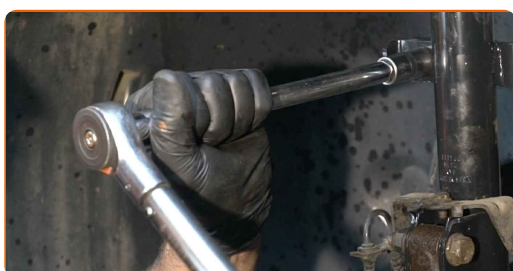




**56** Install the transverse stabilizer link.



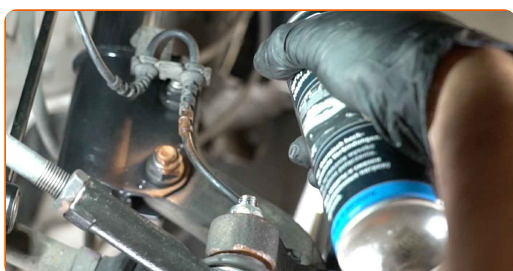
**57** Tighten the fastener connecting the stabilizer link to the shock strut. Use a drive socket #16. Use a torque wrench. Tighten it to 44 Nm torque.



**58** 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 105 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.



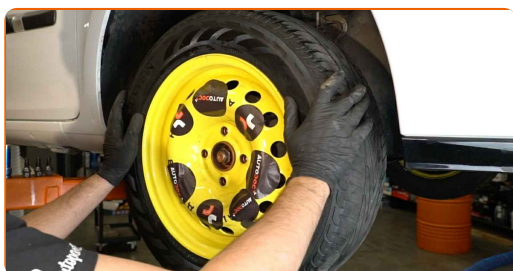
**61** Clean the brake disk surface. Use a brake cleaner.



**AUTODOC recommends:**

- Replacement: coil springs – RENAULT Modus / Grand Modus (F, JP). After applying the spray, wait a few minutes.

**62** Install the wheel.



**Replacement: coil springs – RENAULT Modus / Grand Modus (F, JP). Tip:**

- To avoid injury, hold up the wheel when screwing in the fastening bolts.

**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 105 Nm torque.

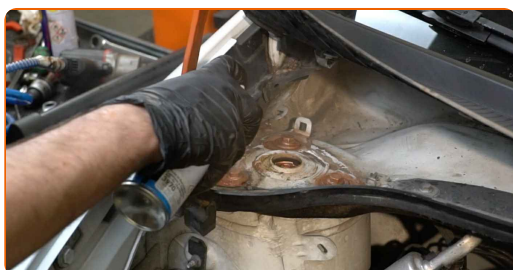
**65** Remove the jacks and chocks.



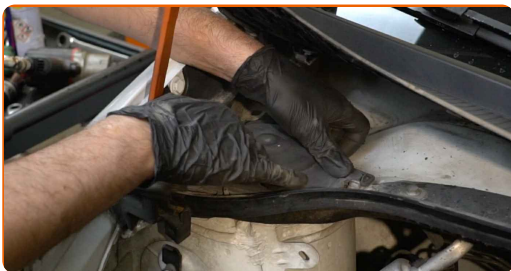
**66** Tighten the upper fastener of the shock absorber strut mount. Use a drive socket #13. Use a torque wrench. Tighten it to 21 Nm torque.



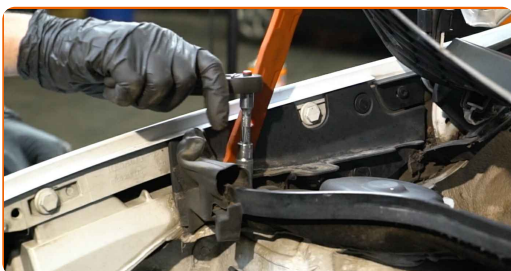
**67** Treat the fasteners of the shock strut mount. Use copper grease.



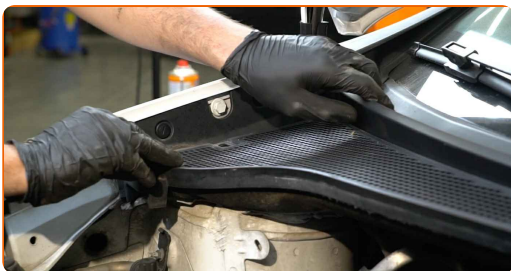
**68** Install the protective cap onto the shock absorber strut mount.



**69** Screw in the fasteners of the suspension strut mount cover. Use a drive socket #10. Use a ratchet wrench.

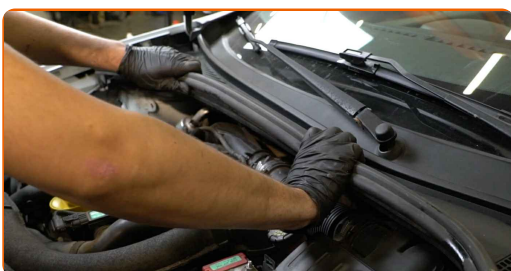


**70** Install and secure the cowl grille.



**71** Install the cowl grille clips.

**72** Install the cowl grille seal.



**73**

Remove the fender protection cover.

**74**

Close the hood.

**WELL DONE!** 

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