



How to change front coil  
springs on **Renault**  
**Scenic 2** – replacement  
guide

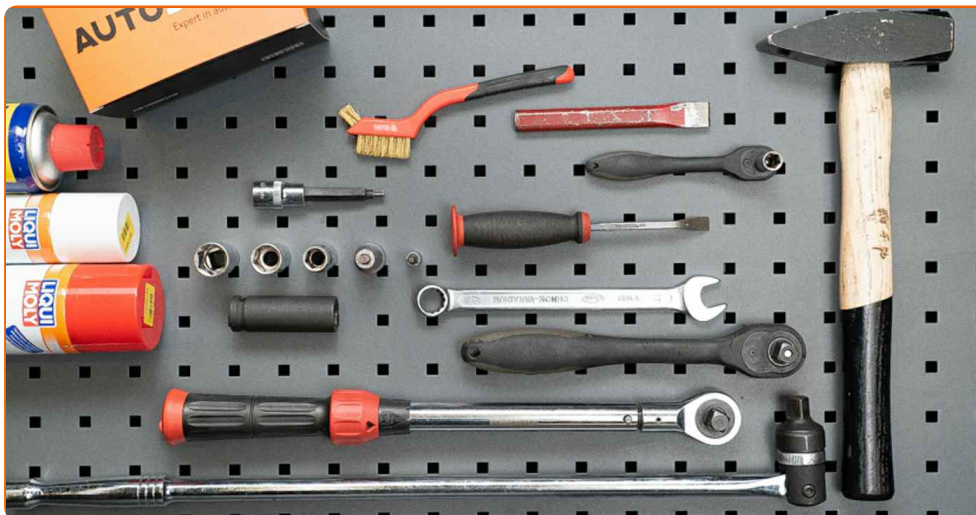
## VIDEO TUTORIAL

** Important!**

This replacement procedure can be used for:  
RENAULT GRAND SCÉNIC II (JM0/1\_) 1.9 dCi, RENAULT SCÉNIC II (JM0/1\_) 1.9 dCi,  
RENAULT SCÉNIC II (JM0/1\_) 1.9 dCi 130

The steps may slightly vary depending on the car design.

**REPLACEMENT: COIL SPRINGS – RENAULT SCENIC 2.  
TOOLS YOU MIGHT NEED:**



- Wire brush
- WD-40 spray
- Copper grease
- Drive socket # 10
- Drive socket # 13
- Drive socket # 17
- Drive socket # 18
- Torx bit T20
- HEX bit No.H6.
- Combination spanner #19
- Wheel impact socket #19
- Shock absorber socket
- Ratchet wrench
- Torque wrench
- Flat chisel
- Tap wrench
- Hammer
- Crow bar
- Hydraulic strut spring compressor
- Hydraulic transmission jack
- Fender cover
- Wheel chock

**BUY TOOLS**

Replacement: coil springs – Renault Scenic 2. 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.
- Please note: all work on the car – Renault Scenic 2 – should be done with the engine switched off.

## CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

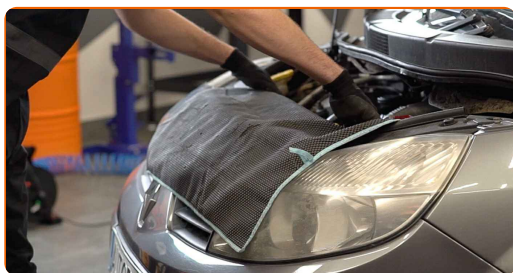
1

Open the bonnet.



2

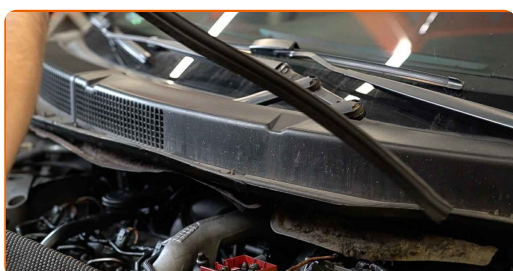
Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.



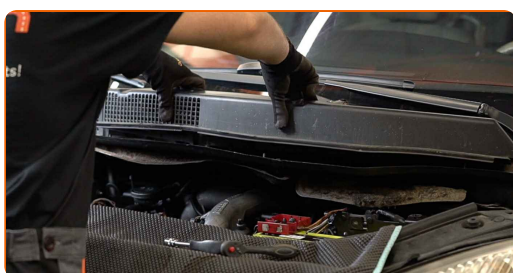
- 3 Unscrew the fastener of the wiper cowl grille located on the left side. Use a drive socket #10. Use a ratchet wrench.



- 4 Remove the rubber strip.



- 5 Remove the wiper cowl grille located on the left side.



- 6 Unscrew the fastener of the wiper cowl grille located on the right side. Use Torx T20.

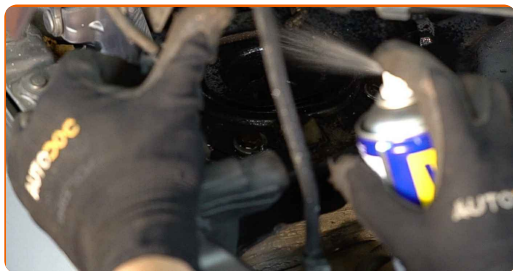


- 7 Raise a little the wiper cowl grille located on the right side.



8

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



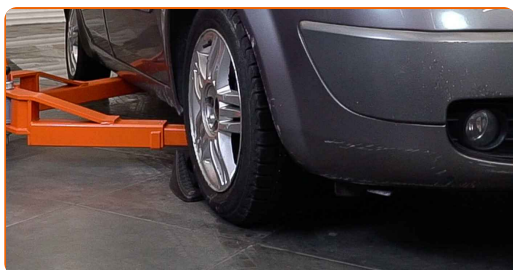
9

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



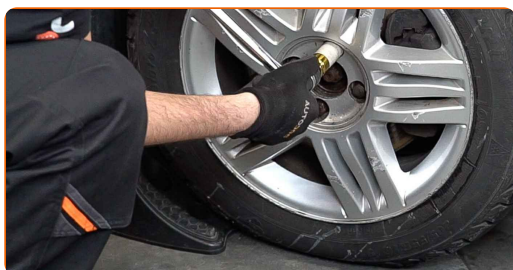
10

Secure the wheels with chocks.



11

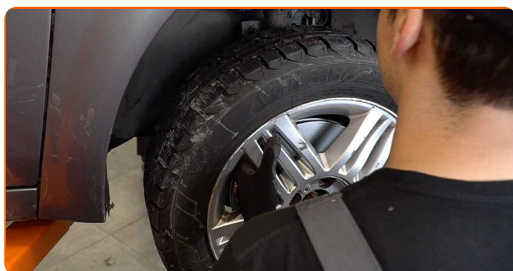
Loosen the wheel mounting bolts. Use wheel impact socket #19.



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



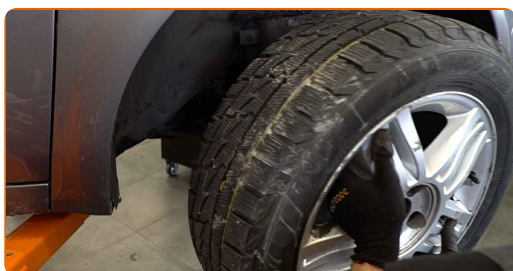
**13** Unscrew the wheel bolts.



**AUTODOC recommends:**

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.  
Renault Scenic 2

**14** Remove the wheel.

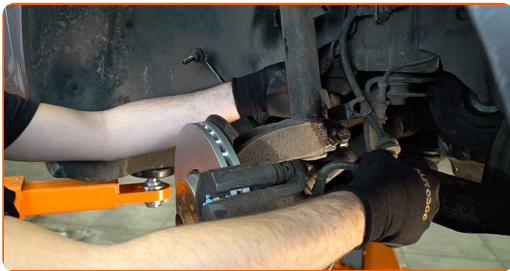


**15** Clean the fasteners connecting the stabiliser link to the shock strut, and those connecting the shock strut to the steering knuckle. Use a wire brush. Use WD-40 spray.

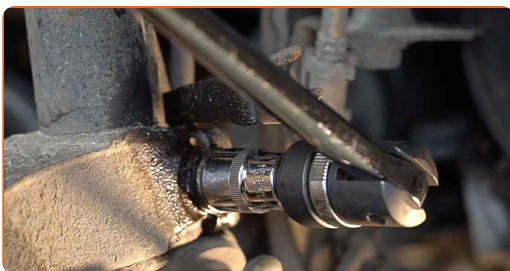
**16** Unscrew the nut and remove the stabilizer rod from the shock strut. Use a drive socket #17.



**17** Disconnect the wiring and the brake hose from the bracket on the shock strut. Use a crowbar.

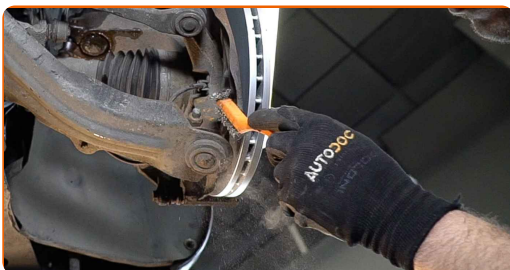


**18** Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use a drive socket #18. Use a tap wrench.



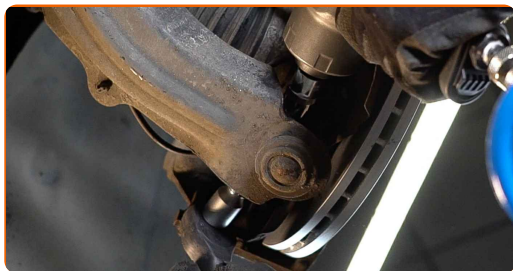
**19** Remove the fastening bolt.

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





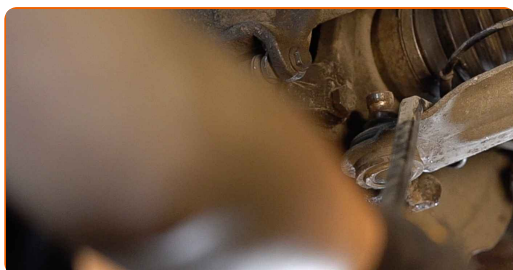
**21** Unscrew the ball joint fastening to the steering knuckle. Use a drive socket #17. Use a ratchet wrench.



**22** Remove the fastening bolt.



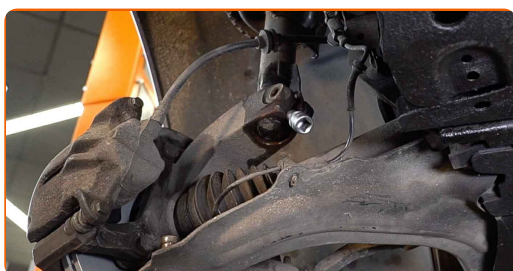
**23** Disconnect the ball joint from the steering knuckle. Use a crowbar.



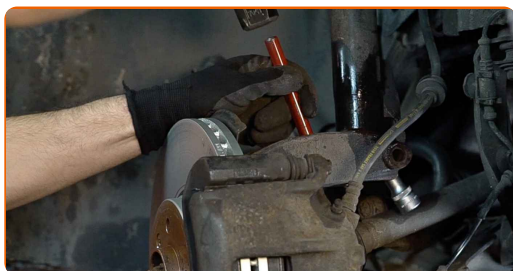
**24** Prop up the steering knuckle. Use a hydraulic transmission jack.



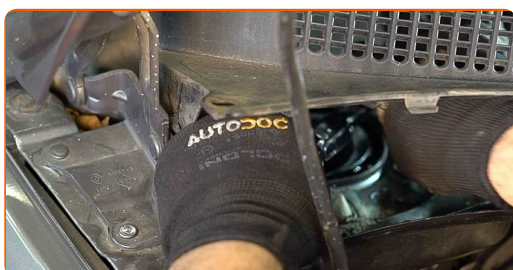
**25** Release the lower fastener connecting the shock strut to the steering knuckle. Use a special drive socket to remove the shock absorber. Use a ratchet wrench.



**26** Disconnect the steering knuckle from the shock absorber strut. Use a hammer. Use a flat metal-working chisel.



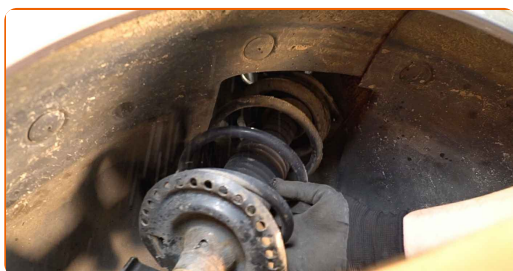
**27** Unscrew the top fastening of the shock strut mount. Use a drive socket #13. Use a ratchet wrench.



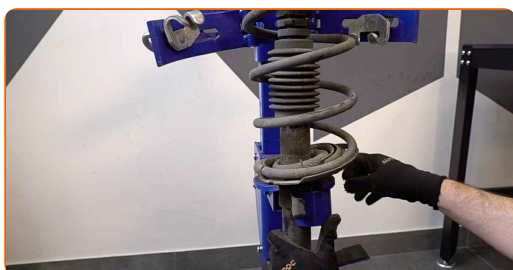
**AUTODOC recommends:**

- Renault Scenic 2 – To avoid injury, hold the suspension strut while unscrewing the fastening bolts.

**28** Remove the suspension strut.



**29** Set the shock absorber strut on the spring compressor tool.

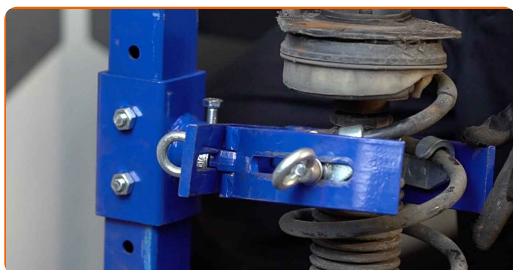


Replacement: coil springs – Renault Scenic 2. Tip from AUTODOC experts:

- 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.

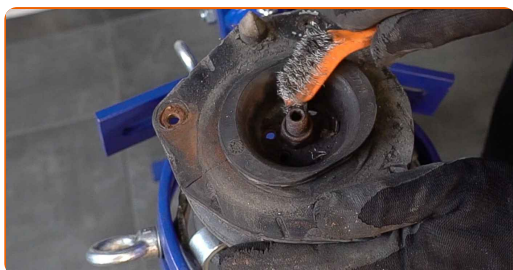
30

Compress the spring.



31

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

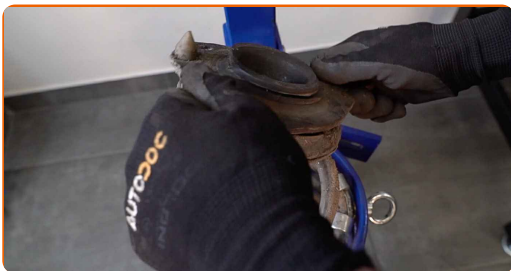


32

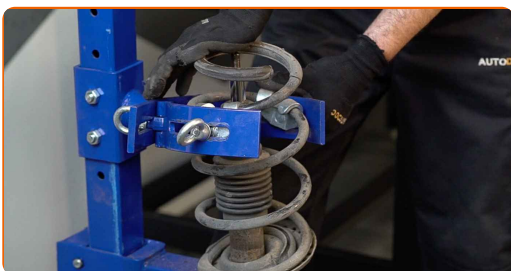
Remove the strut piston rod nut. Use a combination spanner #19. Use HEX No.H6.



**33** Remove the top strut mount.



**34** Release the coil spring.



**35** Remove the spring.



**AUTODOC recommends:**

- Replacement: coil springs – Renault Scenic 2. Carefully inspect the mount, the boot, and the bump stop of the shock absorber. Replace if necessary.

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



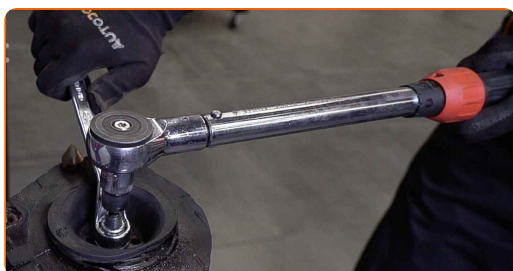
**37** Compress the spring.



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



**39** Tighten the shock strut piston rod nut. Use a combination spanner #19. Use HEX No.H6. Use a torque wrench. Tighten it to 60 Nm torque.



**AUTODOC recommends:**

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

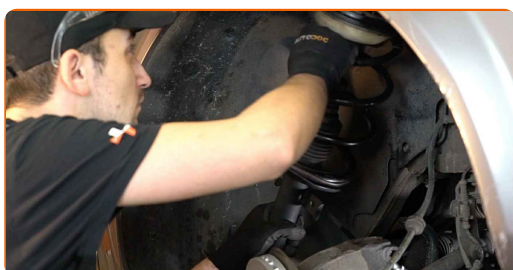
**40** Decompress the spring.



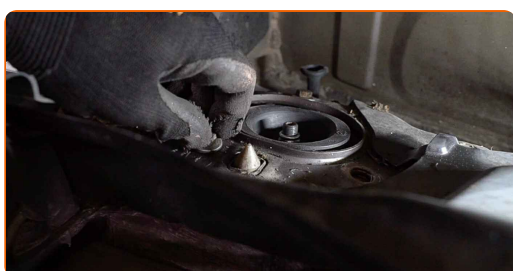
**41** Remove the assembled shock strut.



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



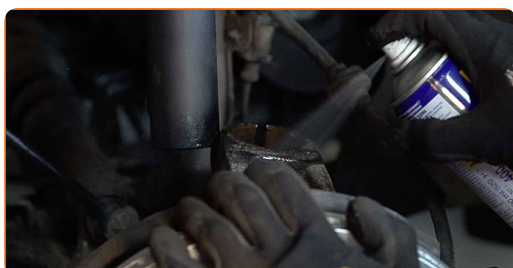
**43** Screw the top fastening of the shock strut mount. Do not tighten it.



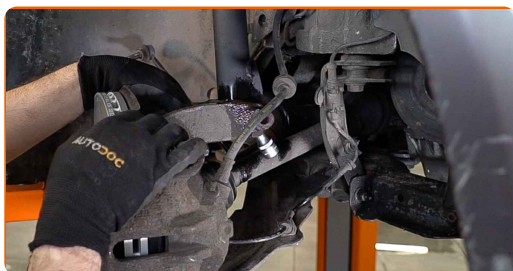
**AUTODOC recommends:**

- Renault Scenic 2 – To avoid injury, hold the suspension strut while screwing in the fastening bolts.

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

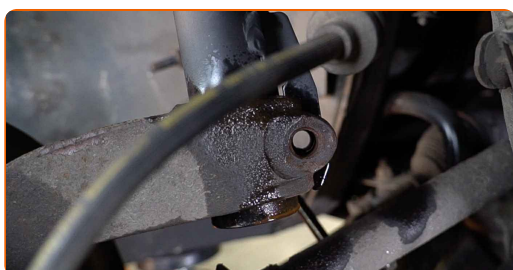


**45** Fix the shock absorber strut on the steering knuckle.

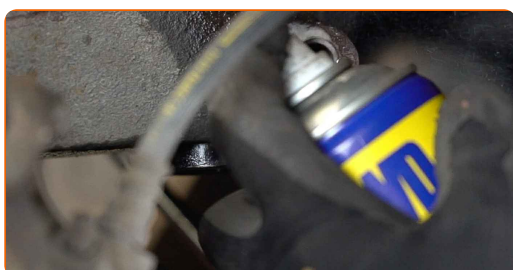


**46** Raise the hydraulic transmission jack by 10-15 cm.

**47** Remove the drive socket that is used for taking the shock absorber out of the steering knuckle.



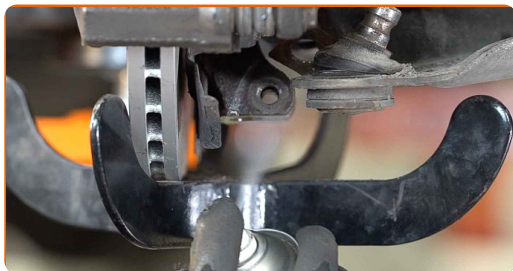
**48** Treat the shock strut fasteners. Use WD-40 spray.



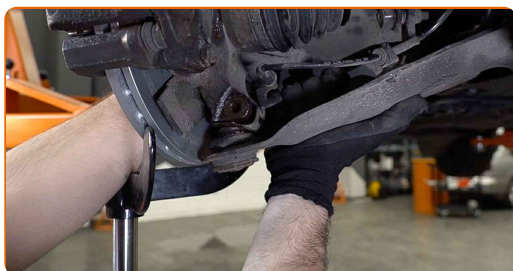
**49** Install and tighten a new bolt of the steering knuckle. Use a drive socket #18.



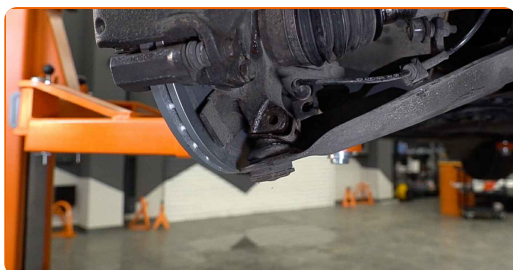
**50** Clean the ball joint mounting seat. Use a wire brush. Use WD-40 spray.



**51** Connect the ball joint to the steering knuckle.



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



**AUTODOC recommends:**

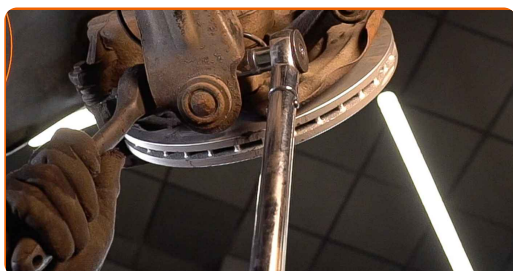
- Replacement: coil springs – Renault Scenic 2. Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

**53** Install the fastening bolt.





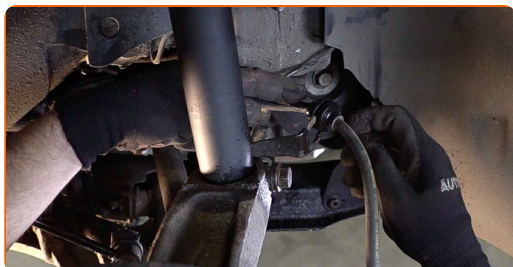
- 54** Tighten the ball joint fastener. Use a drive socket #17. Use a ratchet wrench. Use a torque wrench. Tighten it to 60 Nm torque.



- 55** Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a drive socket #18. Use a torque wrench. Tighten it to 105 Nm torque.



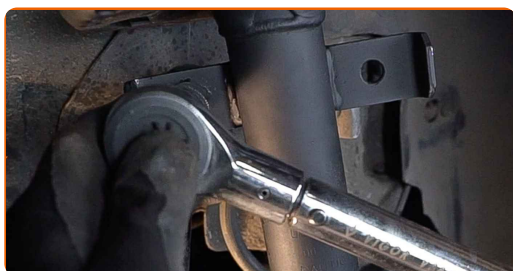
- 56** Connect the fastener of the ABS sensor cable to the shock absorber strut. Fasten the brake hose on the strut.



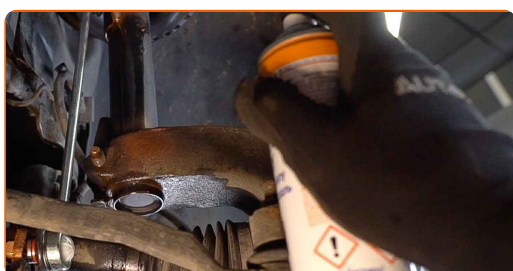
- 57** Install the transverse stabilizer link.



- 58 Tighten the fastener connecting the stabilizer link to the shock strut. Use a drive socket #17. Use a torque wrench. Tighten it to 44 Nm torque.



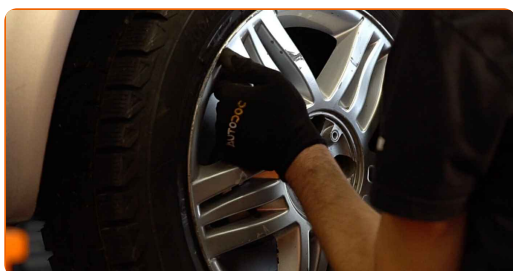
- 59 Treat the shock strut fasteners. Use copper grease.



- 60 Clean the wheel rim mounting seat. Use a wire brush. Treat the contacting surface. Use copper grease.



- 61 Install the wheel.

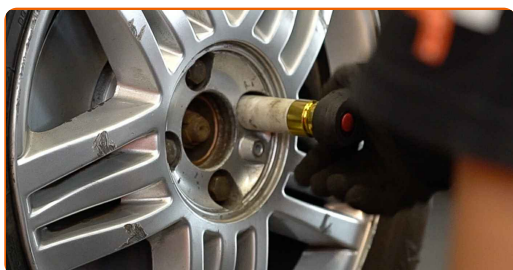


**AUTODOC recommends:**

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. Renault Scenic 2

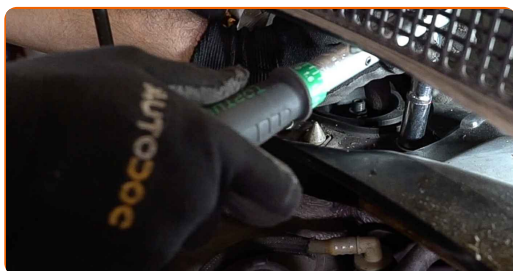
**62**

Screw in the wheel bolts. Use wheel impact socket #19.



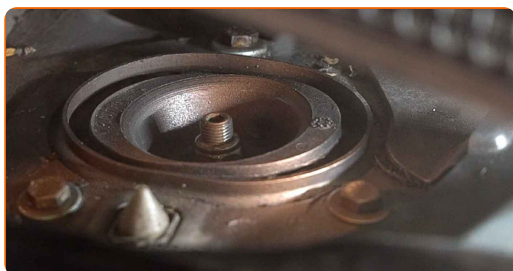
**63**

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.



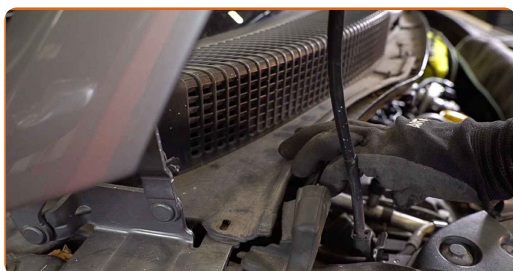
**64**

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

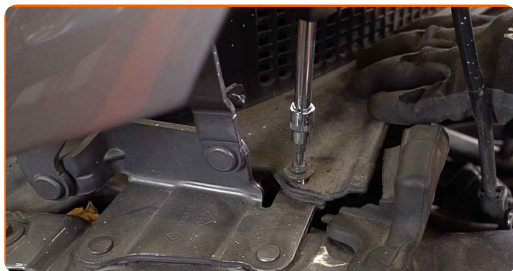


**65**

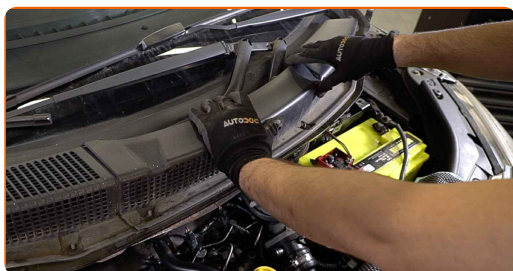
Install and secure the wiper cowl grille located on the right side.



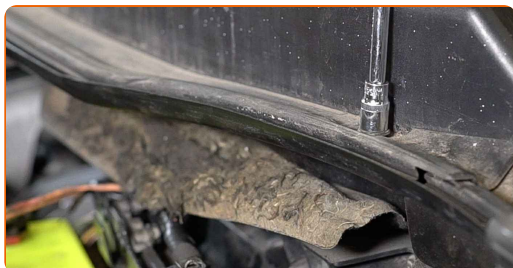
**66** Screw in the fasteners of wiper cowl grille located on the right side. Use Torx T20.



**67** Install the wiper cowl grille on the left side.



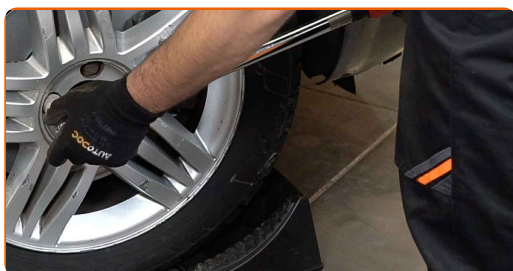
**68** Screw in the fastener of the wiper cowl grille located on the left side. Use a drive socket #10.



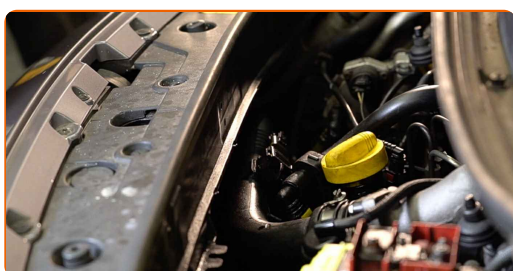
**69** Install the rubber strip.



**70** Lower the car and working in a cross order, tighten the wheel bolts. Use a torque wrench. Tighten it to 110 Nm torque.



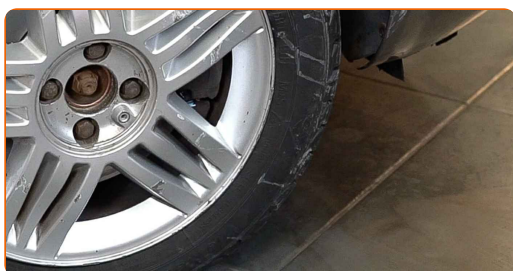
**71** Remove the fender protection cover.



**72** Close the hood.



**73** Remove the jacks and chocks.



**WELL DONE!** 

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