



How to change front  
suspension strut on  
**Renault Scenic 2** –  
replacement guide

## VIDEO TUTORIAL



### Important!

This replacement procedure can be used for:

RENAULT SCÉNIC II (JM0/1\_) 1.6 Hi-Flex, RENAULT SCÉNIC II (JM0/1\_) 2.0, RENAULT SCÉNIC II (JM0/1\_) 1.5 dCi, RENAULT SCÉNIC II (JM0/1\_) 1.6, RENAULT SCÉNIC II (JM0/1\_) 1.4, RENAULT GRAND SCÉNIC II (JM0/1\_) 1.6, RENAULT GRAND SCÉNIC II (JM0/1\_) 2.0, RENAULT GRAND SCÉNIC II (JM0/1\_) 1.5 dCi, RENAULT GRAND SCÉNIC II (JM0/1\_) 1.9 dCi, RENAULT SCÉNIC II (JM0/1\_) 2.0 16V Turbo, RENAULT SCÉNIC II (JM0/1\_) 1.9 dCi, RENAULT SCÉNIC II (JM0/1\_) 2.0 dCi, RENAULT SCÉNIC II (JM0/1\_) 1.6 16V, RENAULT GRAND SCÉNIC II (JM0/1\_) 2.0 dCi, RENAULT SCÉNIC II (JM0/1\_) 1.9 D, (+ 1)

The steps may slightly vary depending on the car design.

**REPLACEMENT: SUSPENSION STRUT – RENAULT SCENIC 2. TOOLS YOU 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: suspension strut – Renault Scenic 2. Tip from AUTODOC experts:

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

**REPLACEMENT: SUSPENSION STRUT – RENAULT SCENIC 2. USE THE FOLLOWING PROCEDURE:**

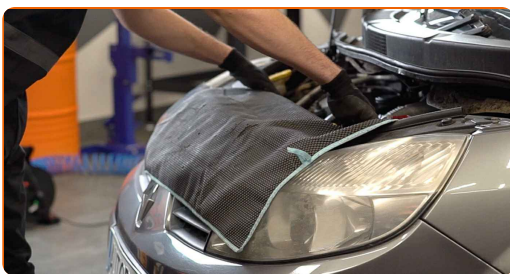
1

Open the bonnet.



2

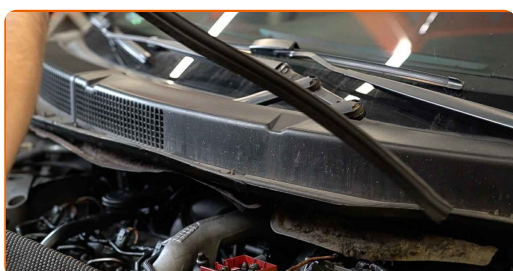
Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.



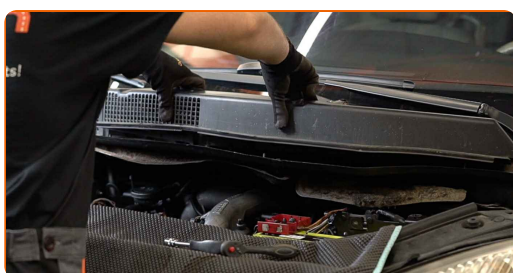
- 3 Unscrew the fastener of the wiper cowl grille located on the left side. Use a drive socket #10. Use a ratchet wrench.



- 4 Remove the rubber strip.



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



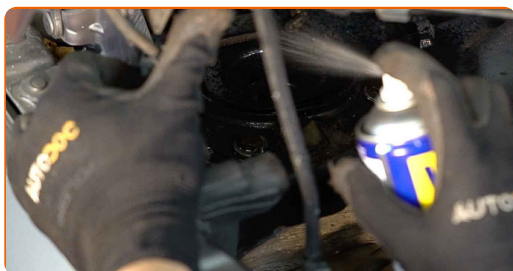
- 6 Unscrew the fastener of the wiper cowl grille located on the right side. Use Torx T20.



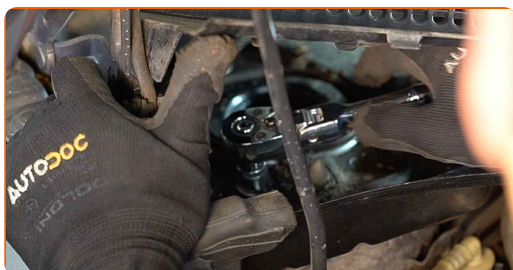
**7** Raise a little the wiper cowl grille located on the right side.



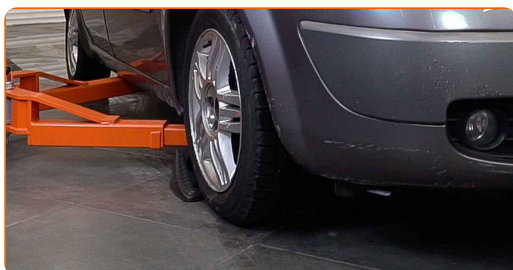
**8** Clean the fasteners of the shock strut upper mount. Use a wire brush. Use WD-40 spray.



**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.



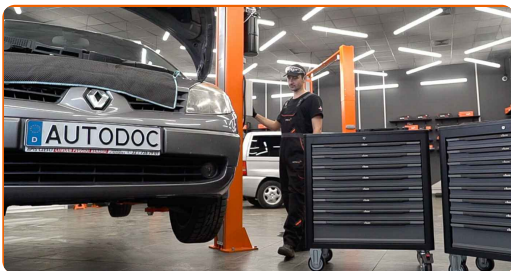
**11**

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



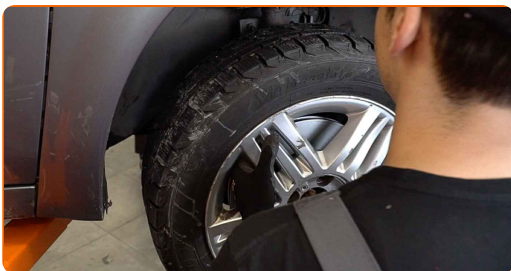
**12**

Raise the front of the car and secure on supports.



**13**

Unscrew the wheel bolts.

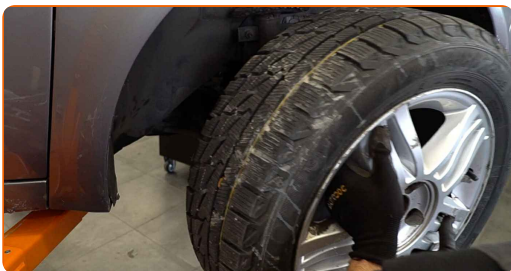


**Replacement: suspension strut – Renault Scenic 2. AUTODOC recommends:**

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

**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.

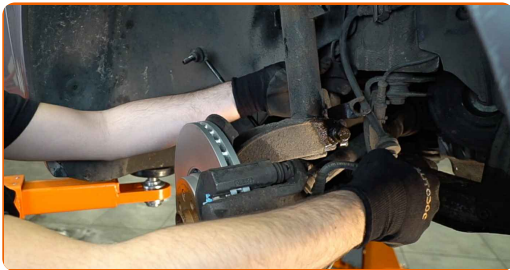
**16**

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.

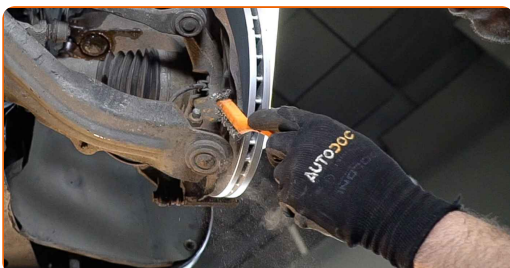


**19**

Remove the fastening bolt.

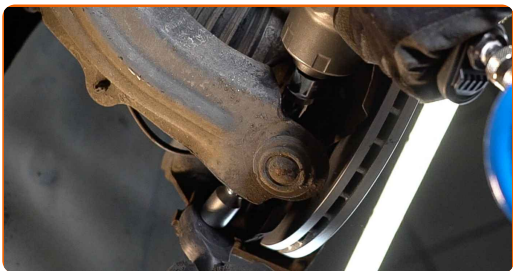
**20**

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





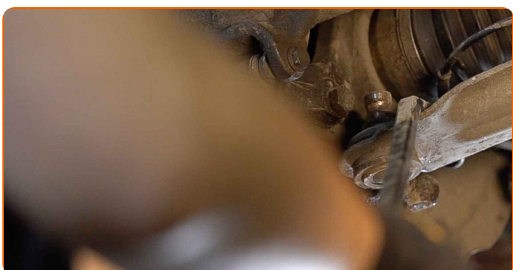
**21** Unscrew the ball joint fastening to the steering knuckle. Use a drive socket #17. Use a ratchet wrench.



**22** Remove the fastening bolt.



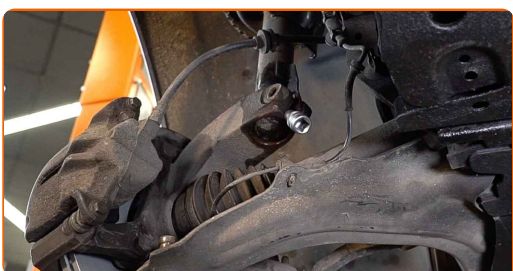
**23** Disconnect the ball joint from the steering knuckle. Use a crowbar.



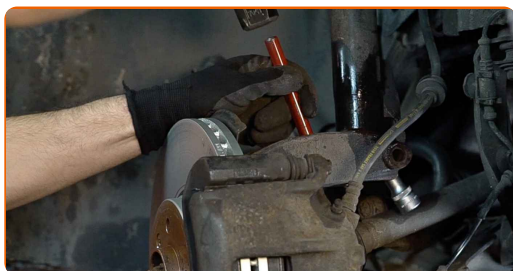
**24** Prop up the steering knuckle. Use a hydraulic transmission jack.



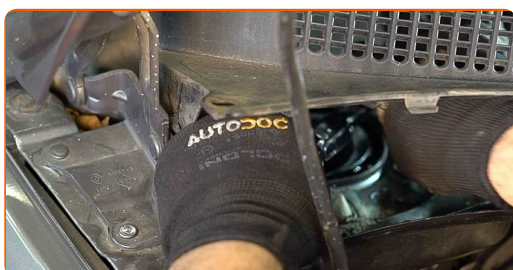
**25** Release the lower fastener connecting the shock strut to the steering knuckle. Use a special drive socket to remove the shock absorber. Use a ratchet wrench.



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



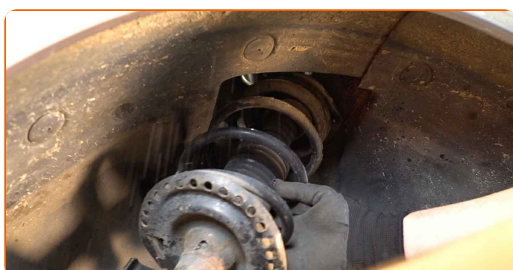
**27** Unscrew the top fastening of the shock strut mount. Use a drive socket #13. Use a ratchet wrench.



Replacement: suspension strut – Renault Scenic 2. AUTODOC experts recommend:

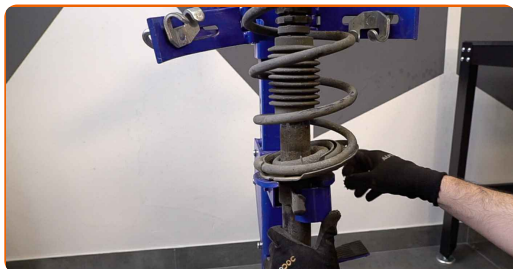
- To avoid injuries, hold the shock strut when undoing the fastening bolts.

**28** Remove the suspension strut.



29

Set the shock absorber strut on the spring compressor tool.

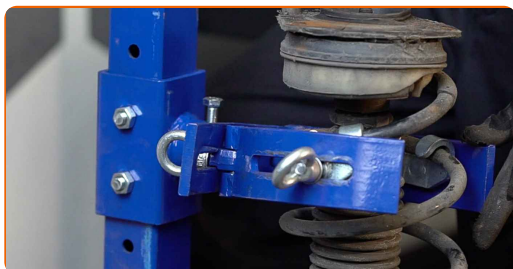


Replacement: suspension strut – Renault Scenic 2. Tip from AUTODOC:

- 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.

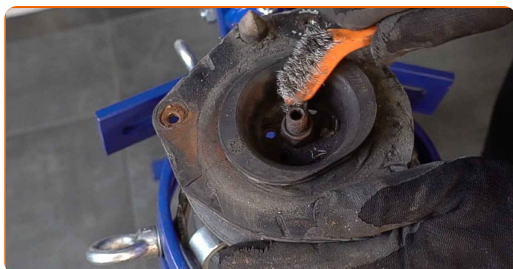
30

Compress the spring.



31

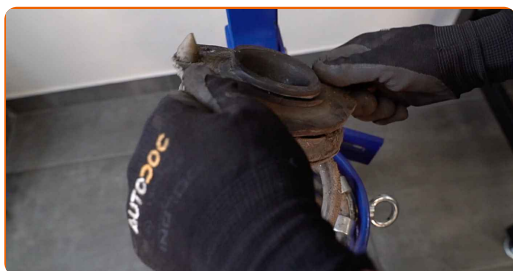
Treat the shock strut rod. Use a wire brush. Use WD-40 spray.



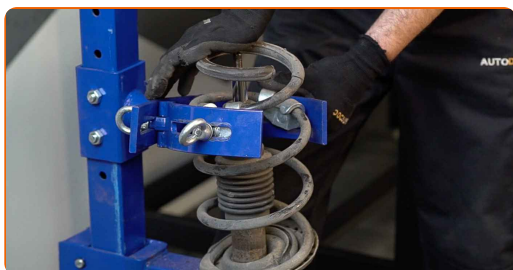
**32** Remove the strut piston rod nut. Use a combination spanner #19. Use HEX No.H6.



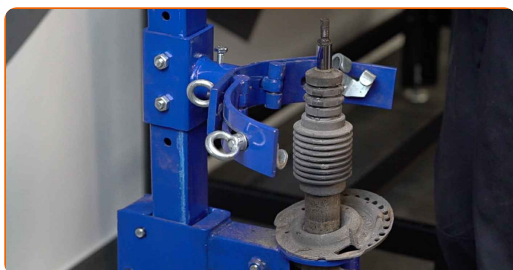
**33** Remove the top strut mount.



**34** Release the coil spring.



**35** Remove the spring.

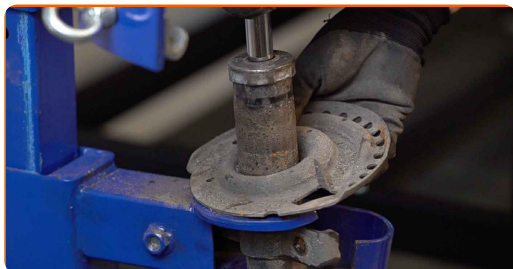


**36** Remove the shock absorber dust cap and the bump stop.



37

Remove the old shock absorber from the hydraulic coil spring compressor.



Replacement: suspension strut – Renault Scenic 2. Tip from AUTODOC experts:

- Thoroughly examine the shock absorber mount, dust boot, bump stop. Replace them if necessary.
- Before installing a new shock absorber you should pump it manually 3-5 times.

38

Install the new shock absorber on the hydraulic coil spring compressor.



39

Install the dust sleeve and the bump stop on the new shock absorber.



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



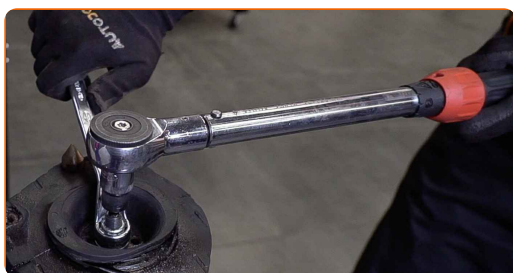
**41** Compress the spring.



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



**43** 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.



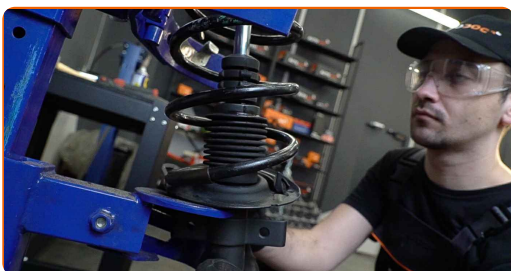
Replacement: suspension strut – Renault Scenic 2. Professionals recommend:

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

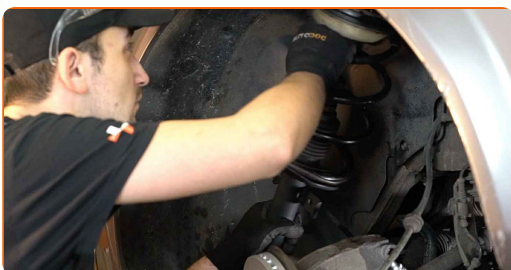
**44** Decompress the spring.



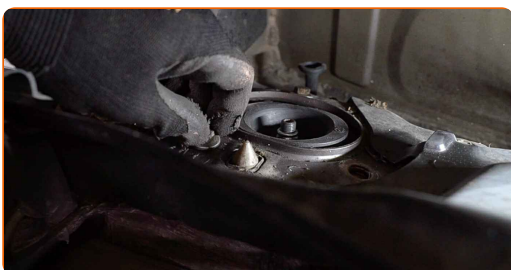
**45** Remove the assembled shock strut.



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



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

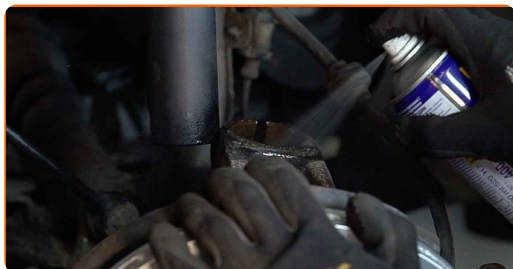


**Replacement: suspension strut – Renault Scenic 2. Tip:**

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

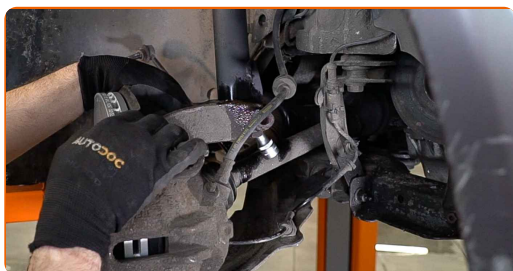
48

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.

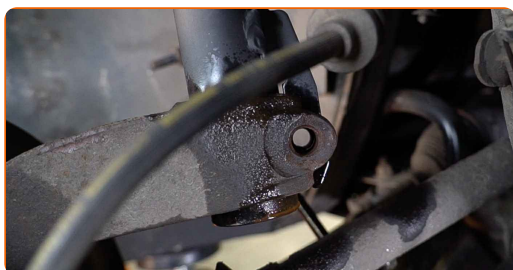


50

Raise the hydraulic transmission jack by 10-15 cm.

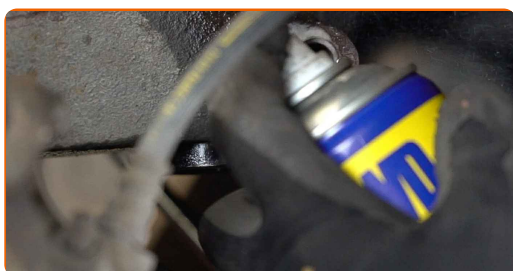
51

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



52

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

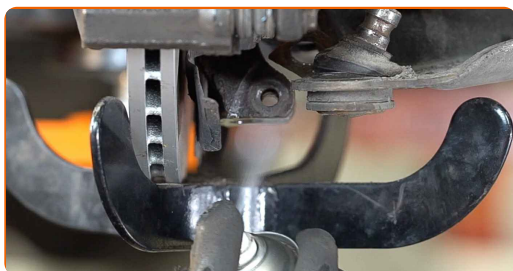




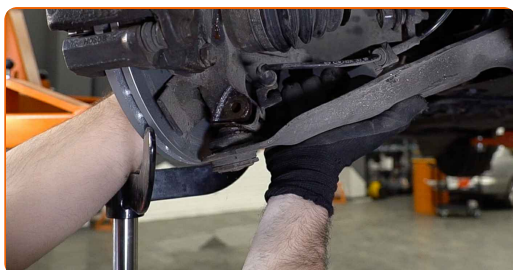
**53** Install and tighten a new bolt of the steering knuckle. Use a drive socket #18.



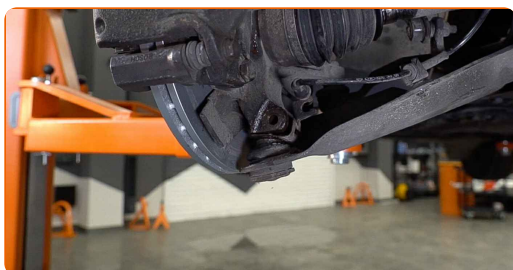
**54** Clean the ball joint mounting seat. Use a wire brush. Use WD-40 spray.



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



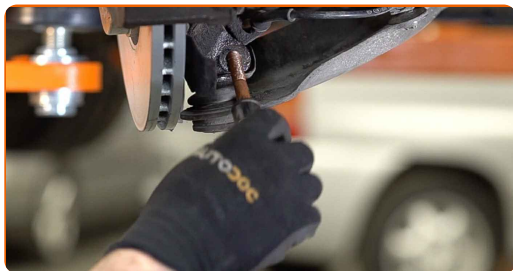
**56** Remove the support from under the steering knuckle.



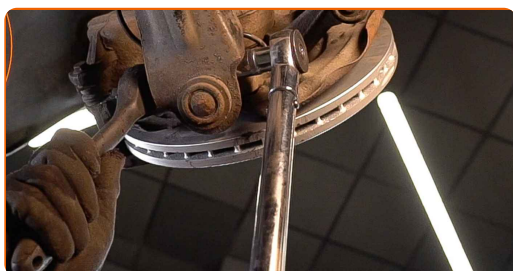
**AUTODOC recommends:**

- Renault Scenic 2 – Do not lower the transmission jack sharply to avoid damaging components and mechanisms of the car.

**57** Install the fastening bolt.



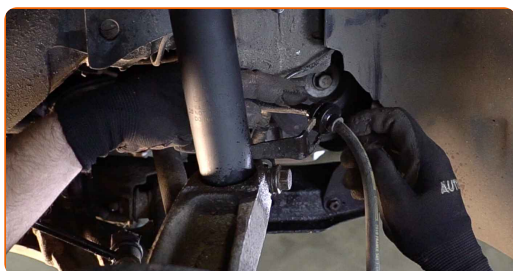
**58** Tighten the ball joint fastener. Use a drive socket #17. Use a ratchet wrench. Use a torque wrench. Tighten it to 60 Nm torque.



**59** 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.



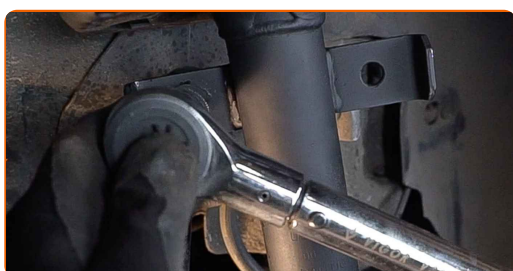
**60** Connect the fastener of the ABS sensor cable to the shock absorber strut. Fasten the brake hose on the strut.



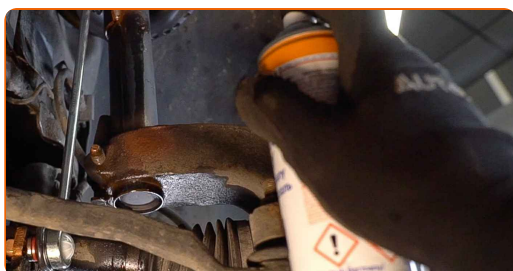
**61** Install the transverse stabilizer link.



**62** 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.



**63** Treat the shock strut fasteners. Use copper grease.



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



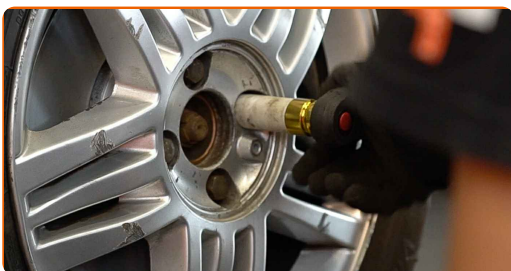
**65** Install the wheel.



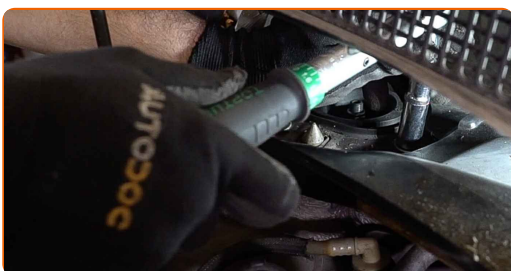
Replacement: suspension strut – Renault Scenic 2. AUTODOC recommends:

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

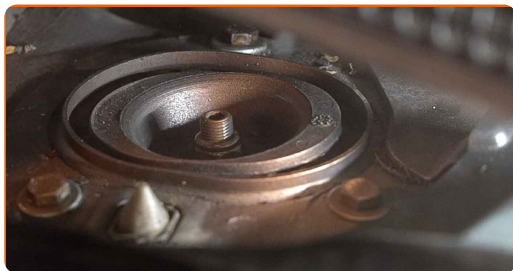
**66** Screw in the wheel bolts. Use wheel impact socket #19.



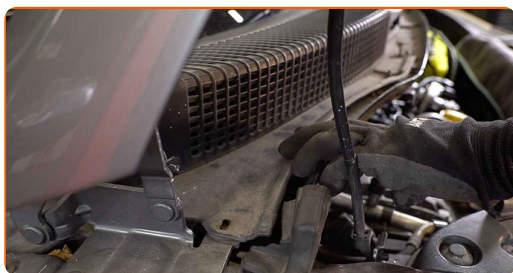
**67** Tighten the upper fastener of the shock absorber strut mount. Use a drive socket #13. Use a torque wrench. Tighten it to 21 Nm torque.



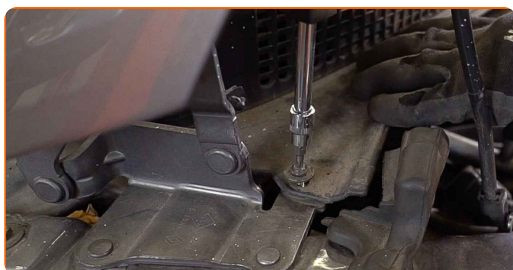
**68** Treat the fasteners of the shock strut mount. Use copper grease.



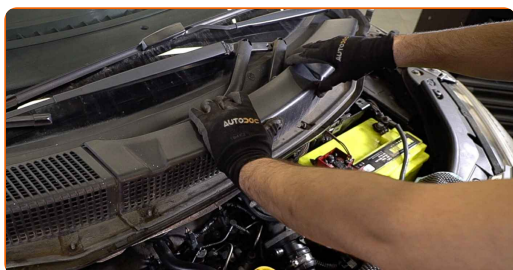
**69** Install and secure the wiper cowl grille located on the right side.



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



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



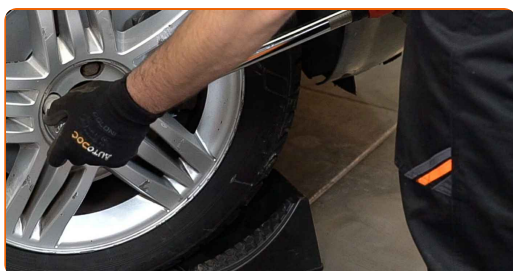
**72** Screw in the fastener of the wiper cowl grille located on the left side. Use a drive socket #10.



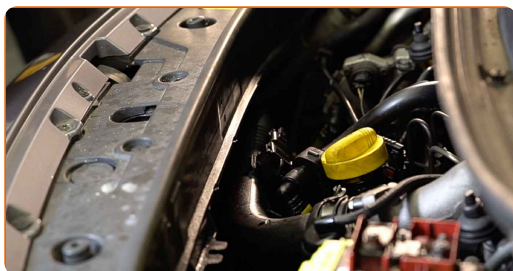
**73** Install the rubber strip.



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



**75** Remove the fender protection cover.



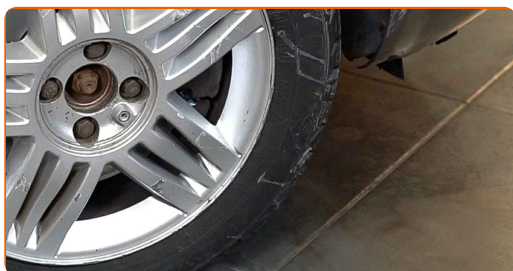
76

Close the hood.



77

Remove the jacks and chocks.



**WELL DONE!** 

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