VIDEO TUTORIAL

ⓘ Important!

This replacement procedure can be used for:
RENAULT GRAND SCÉNIC II (JM0/1_) 1.9 dCi (JM0G, JM12, JM1G, JM2C),
RENAULT SCÉNIC II (JM0/1_) 1.9 dCi (JM0G, JM12, JM1G, JM2C)

The steps may slightly vary depending on the car design.

REQUIRED TOOLS:

- 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

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.

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.

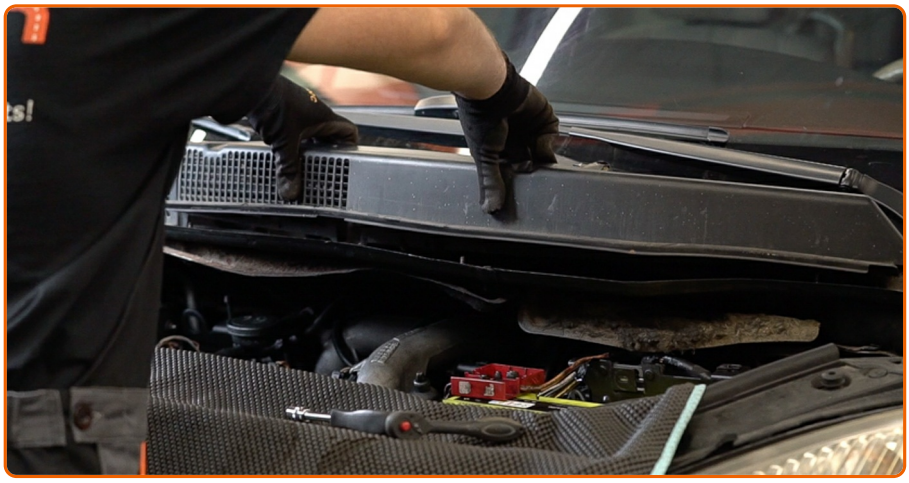
3

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

4

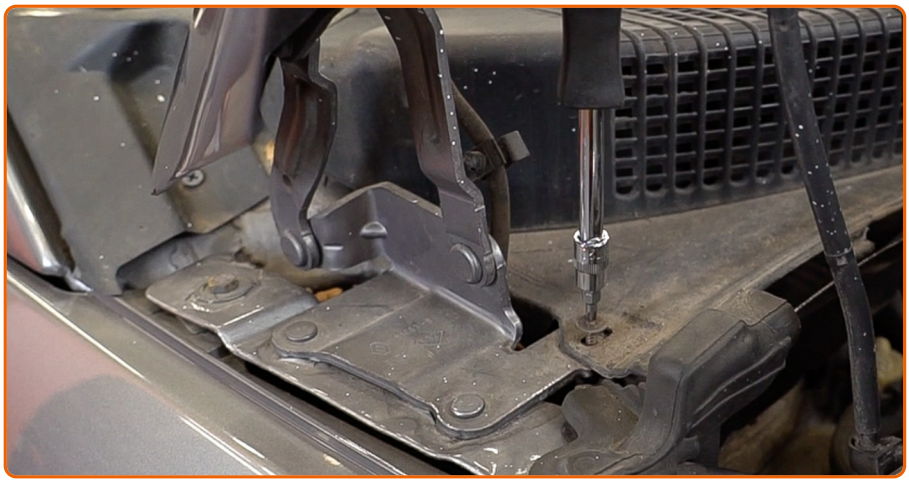
Remove the rubber strip.

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:

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

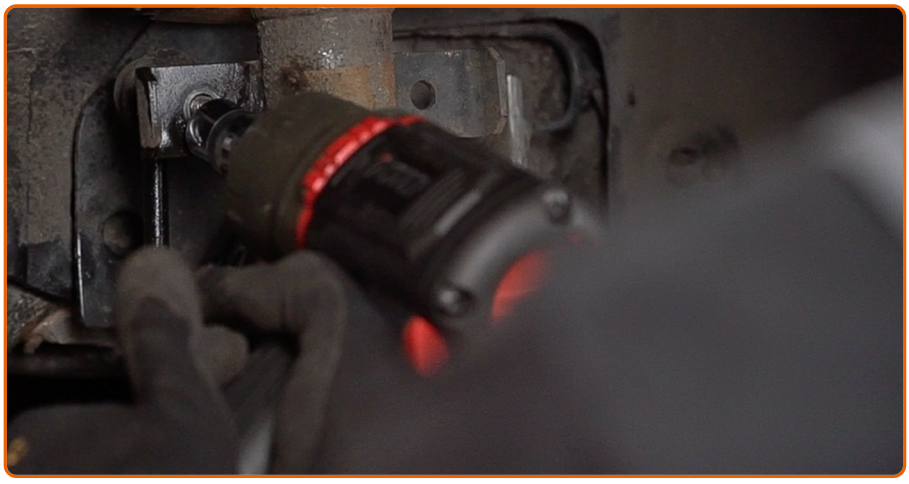
14

Remove the wheel.

15

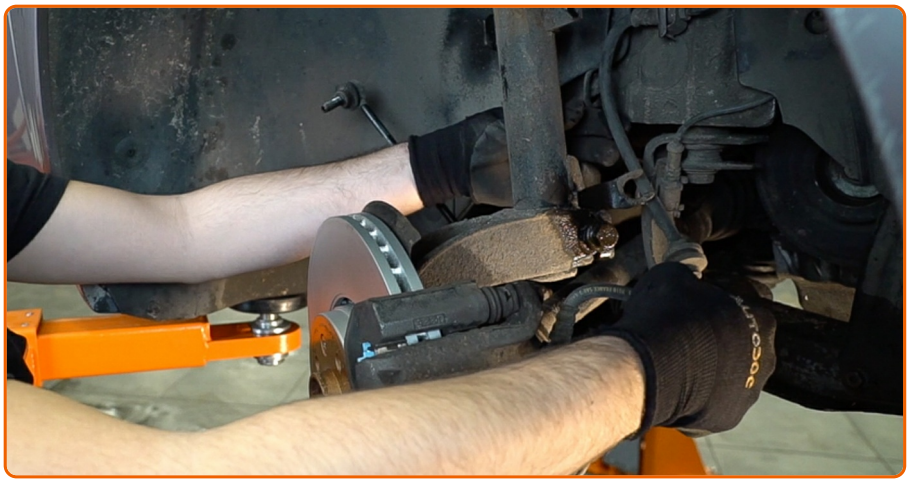
Clean the fasteners connecting the stabiliser link to the shock strut, and those connecting the shock strut to the steering knuckle. Use a wire brush. Use WD-40 spray.

16



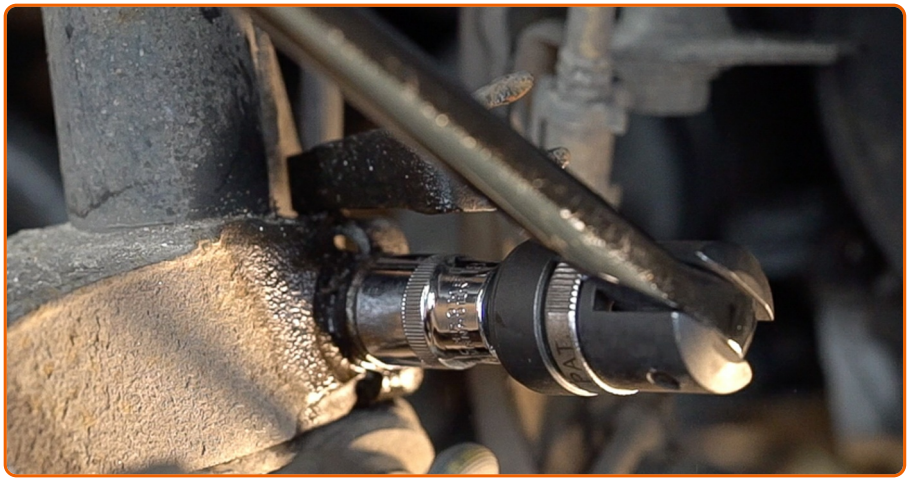
Unscrew the nut and remove the stabilizer rod from the shock strut. Use a drive socket #17.

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.

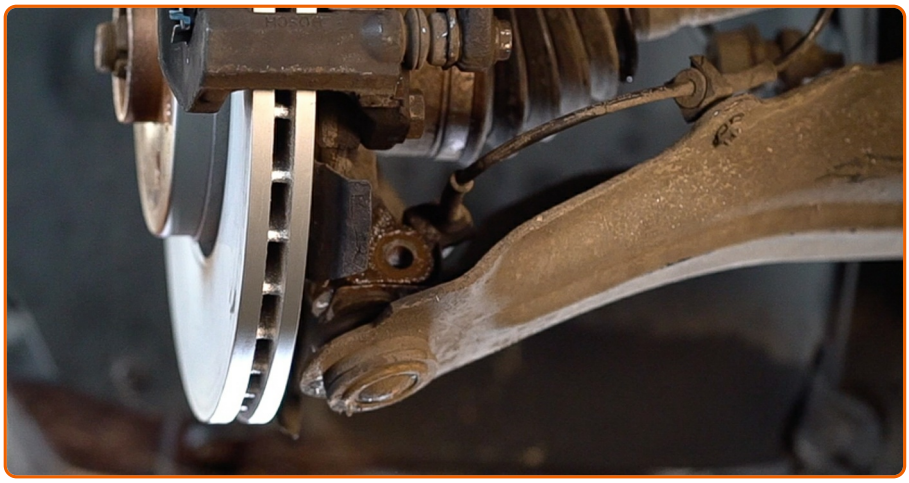
20

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

21

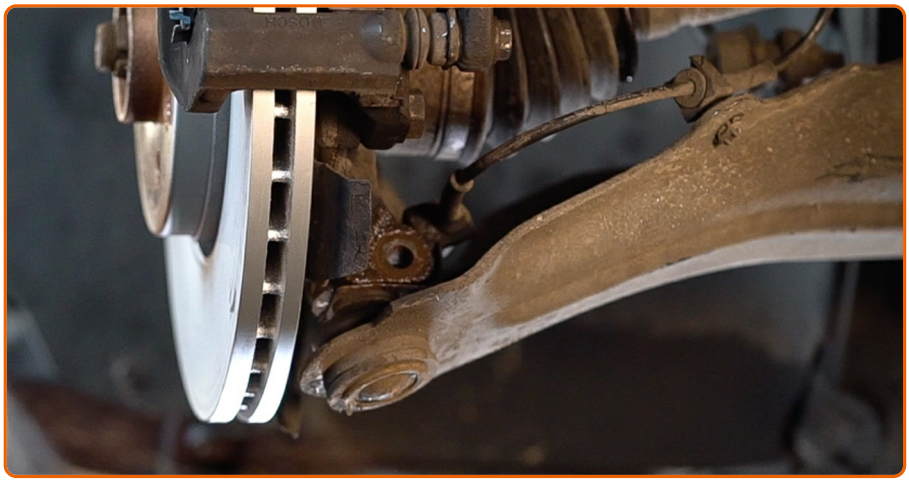
Unscrew the ball joint fastening to the steering knuckle. Use a drive socket #17. Use a ratchet wrench.

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.

AUTODOC recommends:

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

28

Remove the suspension strut.

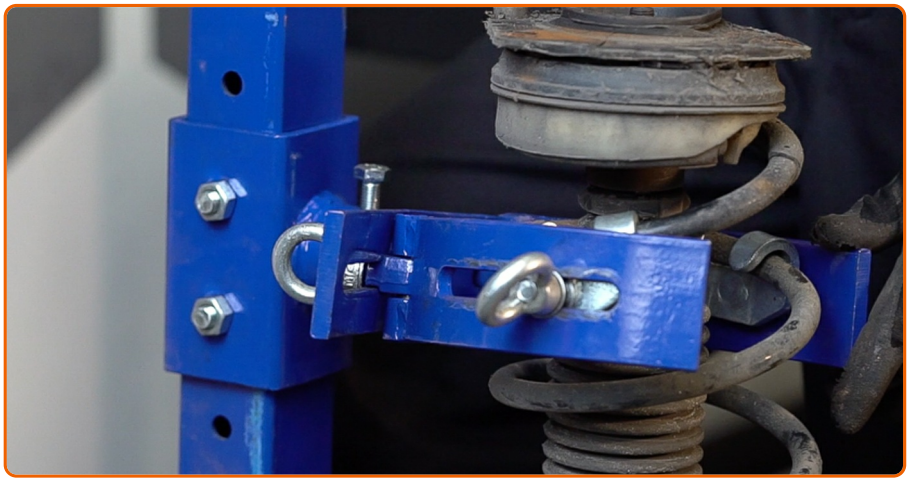
29

Set the shock absorber strut on the spring compressor tool.

AUTODOC recommends:

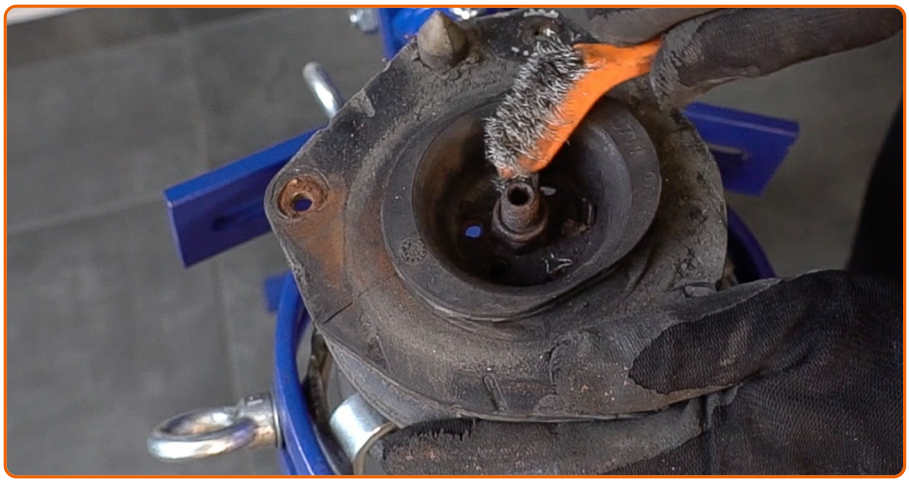
- Note that when using a spring compressor, spring coils need to be securely gripped, compressing the spring on the opposite sides.
- Ensure the correct position of the spring in the retainer.
- Make sure that the spring coils tightly entered the lock handles.

30



Compress the spring.

31



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

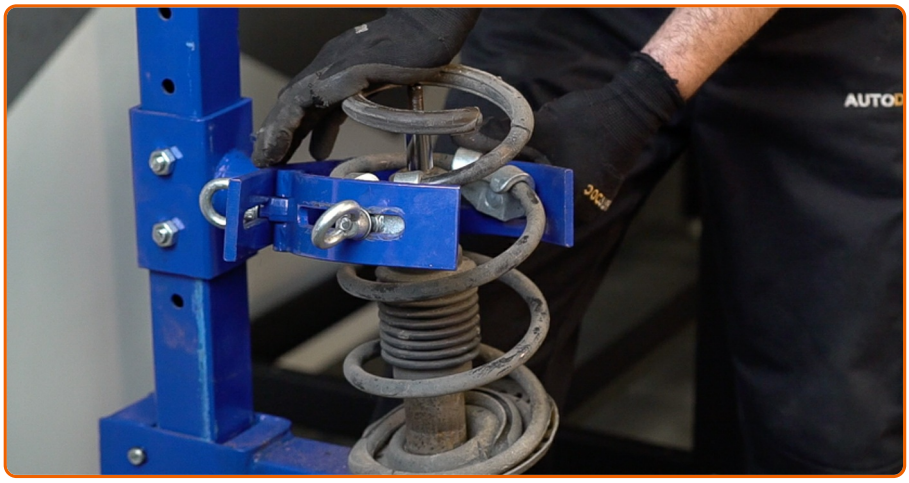
32

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

33

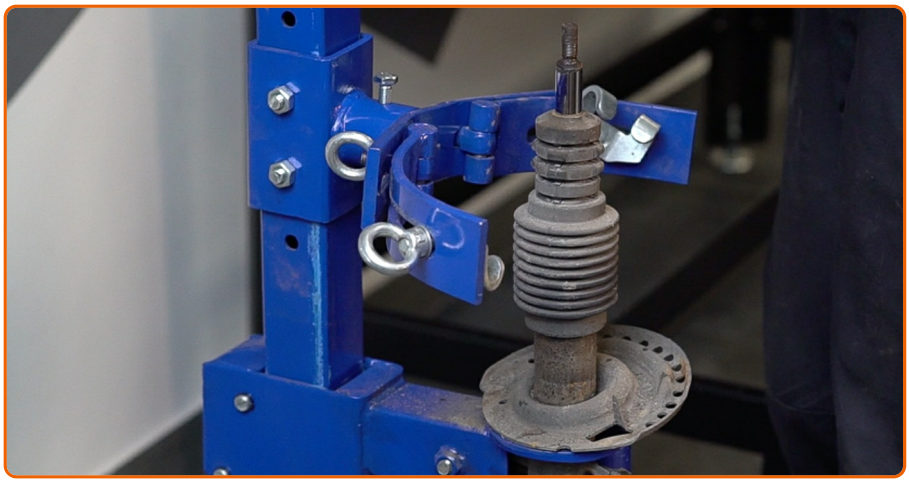
Remove the top strut mount.

34



Release the coil spring.

35

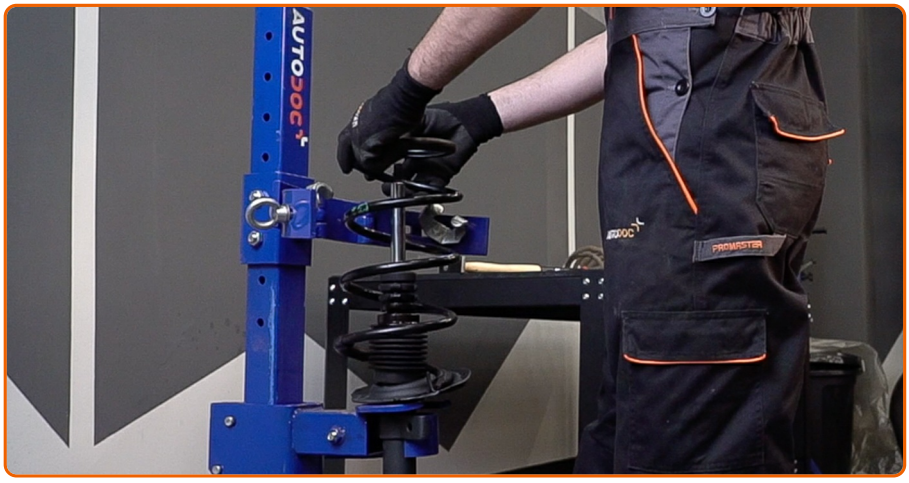


Remove the spring.

AUTODOC recommends:

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

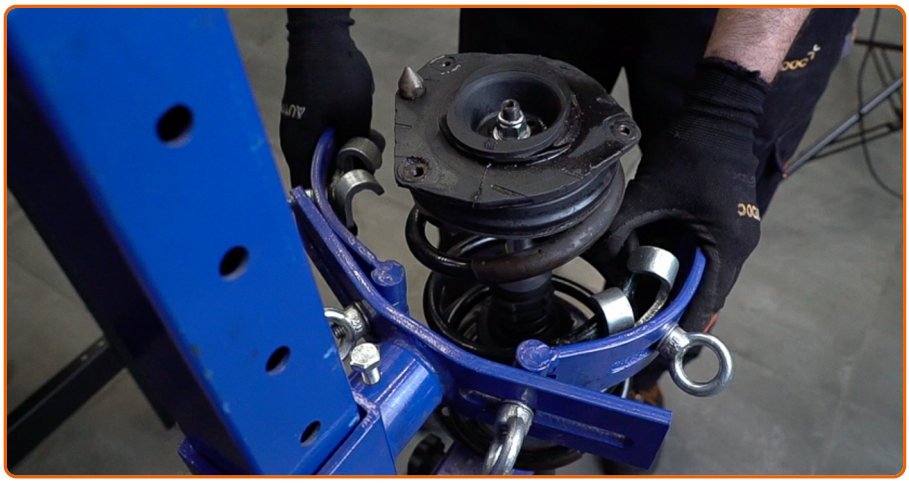
39

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

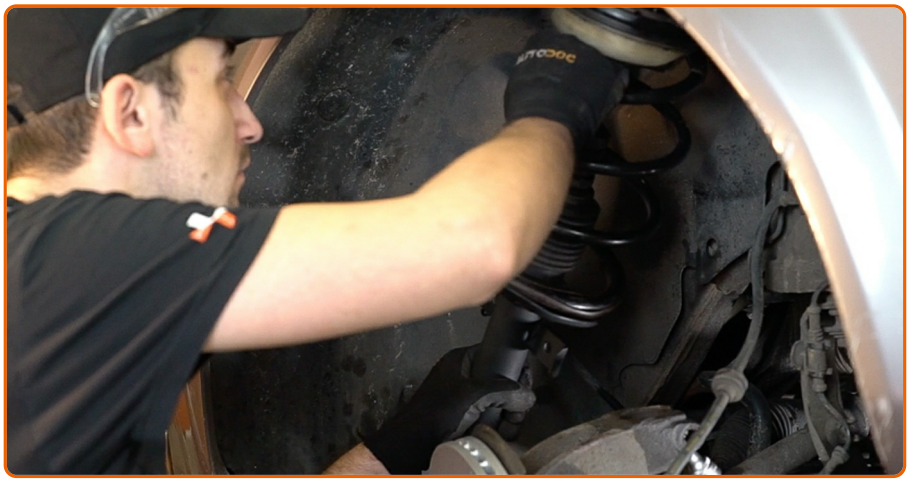


Decompress the spring.

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:

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

44

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

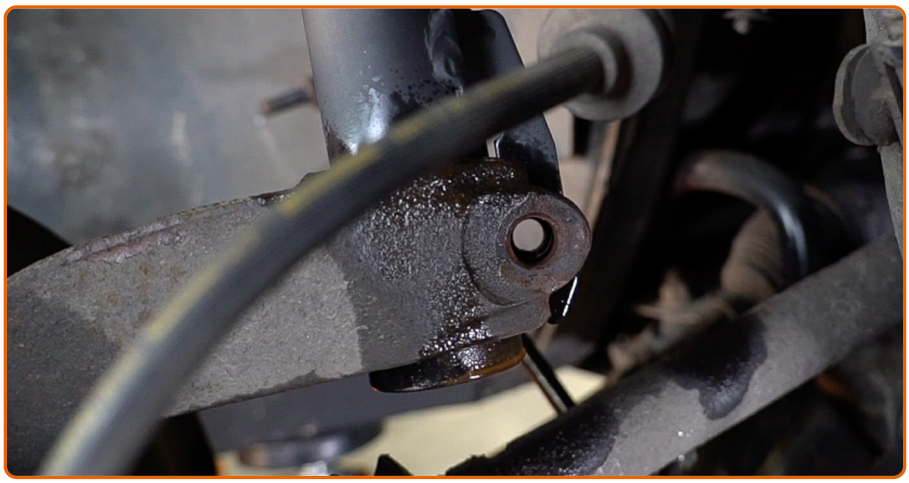
45

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.

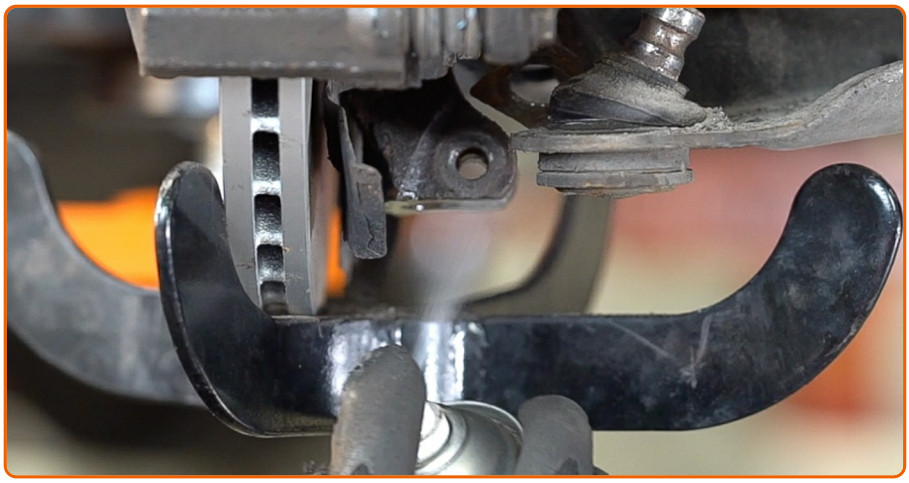
48

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

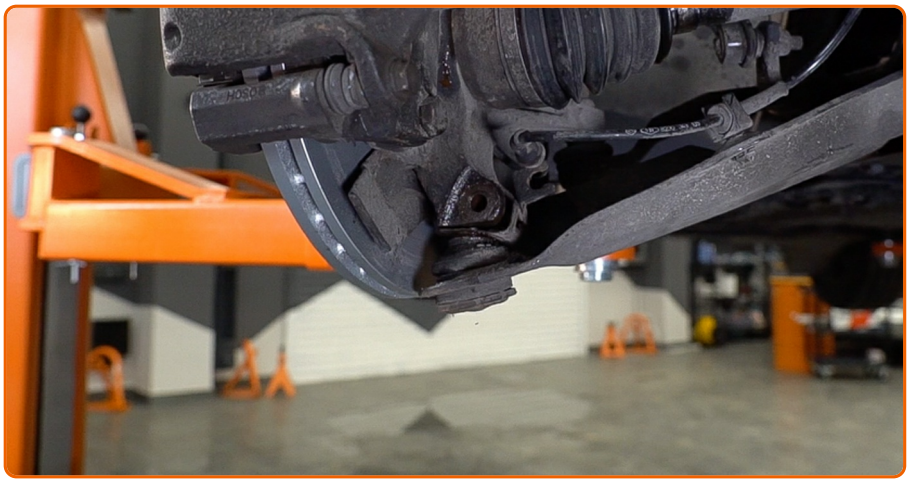


Clean the ball joint mounting seat. Use a wire brush. Use WD-40 spray.

51

Connect the ball joint to the steering knuckle

52



Remove the support from under the steering knuckle.

AUTODOC recommends:

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

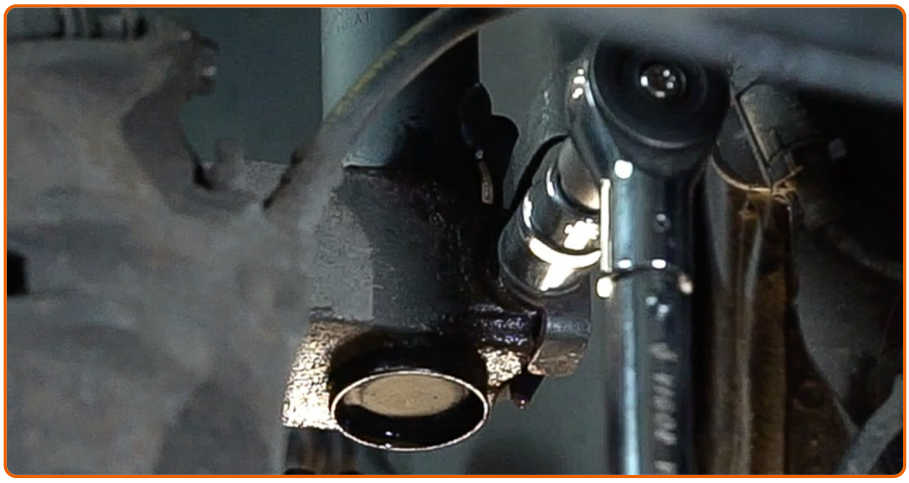
53

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

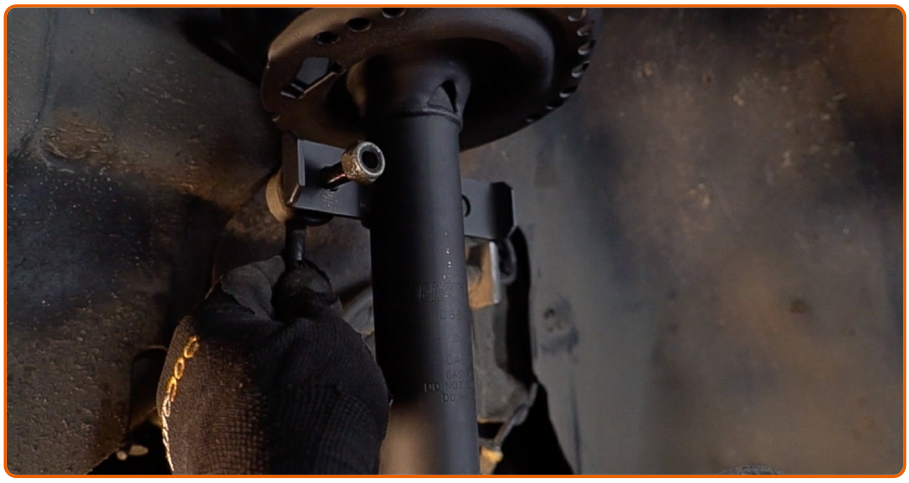


Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a drive socket #18. Use a torque wrench. Tighten it to 95 Nm torque.

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.

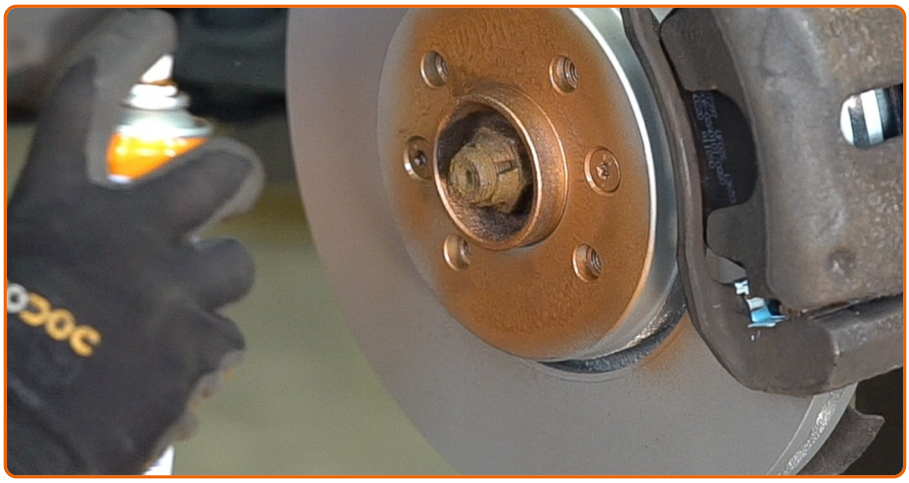
58

Tighten the fastener connecting the stabilizer link to the shock strut. Use a drive socket #17. Use a torque wrench. Tighten it to 60 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:

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

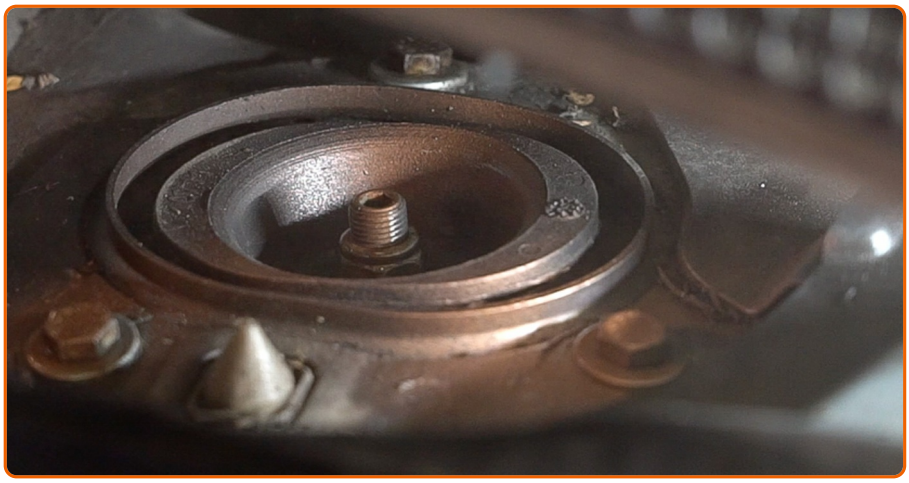
62

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

63

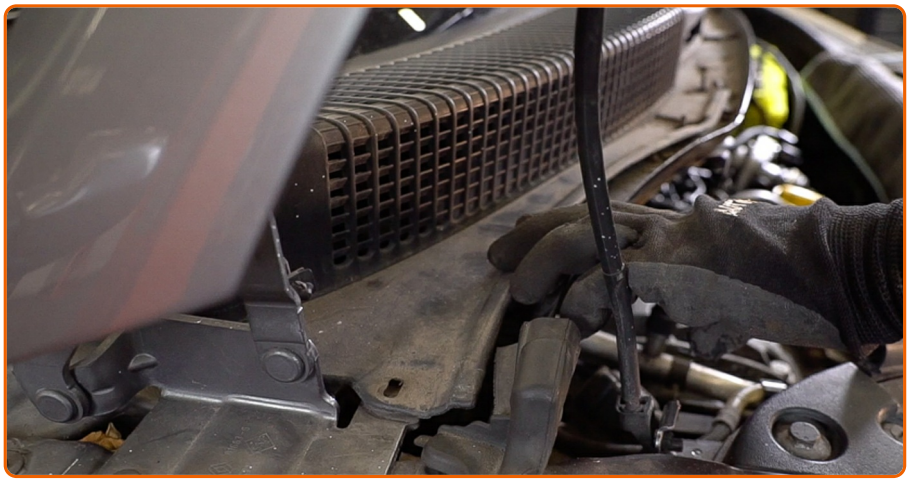
Tighten the upper fastener of the shock absorber strut mount. Use a drive socket #13. Use a torque wrench. Tighten it to 40 Nm torque.

64



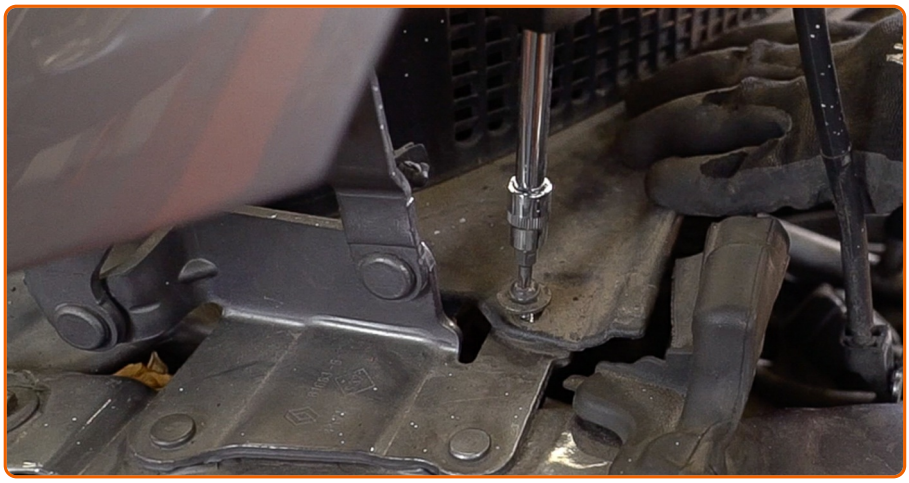
Treat the fasteners of the shock strut mount. Use copper grease.

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.

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YES NO

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