



How to change front
suspension strut on
RENAULT Megane I
Grandtour (KA) –
replacement guide

SIMILAR VIDEO TUTORIAL



This video shows the replacement procedure of a similar car part on another vehicle

ⓘ Important!

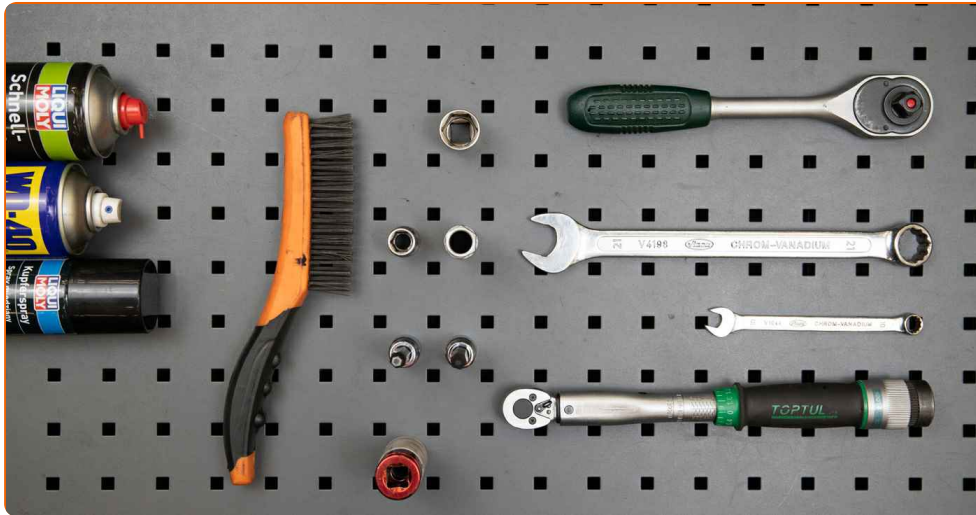
This replacement procedure can be used for:

RENAULT Megane I Grandtour (KA) 1.9 dTi, RENAULT Megane I Grandtour (KA) 1.9 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 Megane Scenic (JA) 1.6 16V

REPLACEMENT: SUSPENSION STRUT – RENAULT MEGANE I GRANDTOUR (KA). LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Torque wrench
- Combination spanner #10
- Combination spanner #21
- Drive socket # 13
- Drive socket # 21
- Wheel impact socket #19
- HEXH6 bit socket
- 21-mm strut nut socket
- Torx bit T20
- Ratchet wrench
- Hydraulic transmission jack
- Fender cover
- Wheel chock

Buy tools

Replacement: suspension strut – RENAULT Megane I Grandtour (KA).
AUTODOC experts recommend:

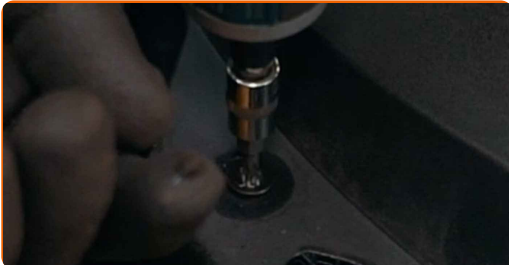
- Both shock struts of the front suspension should be replaced simultaneously.
- The replacement procedure is identical for the left and right shock struts of the front suspension.
- Please note: all work on the car – RENAULT Megane I Grandtour (KA) – should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

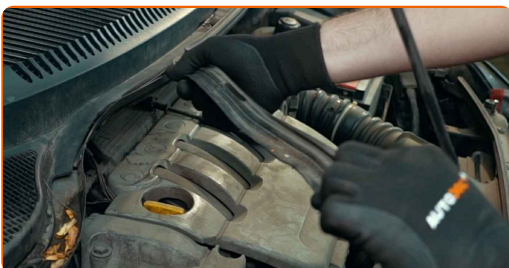
1 Open the bonnet.

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

3 Unscrew the fasteners of the cowl grille. Use Torx T20. Use a ratchet wrench.



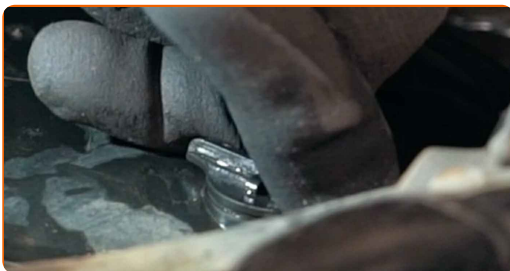
4 Remove the cowl grille seal.



5 Remove the wiper cowl grille located on the right side.



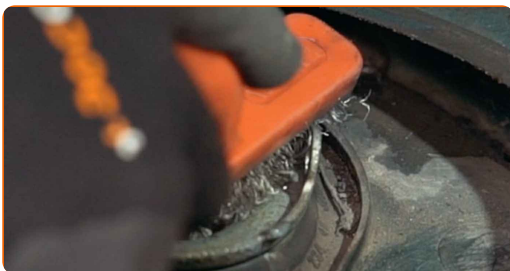
6 Remove the retainers of the shock strut mount cap.



7 Remove the suspension strut mount cap.



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

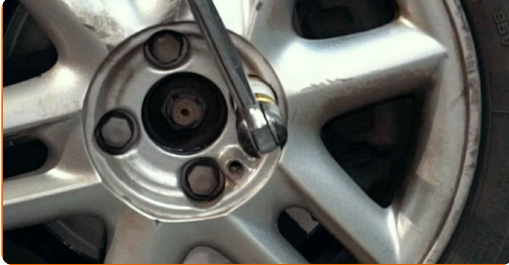


9 Loosen the upper fastener of the shock strut mount. Use a drive socket #13. Use a ratchet wrench.



10 Secure the wheels with chocks.

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

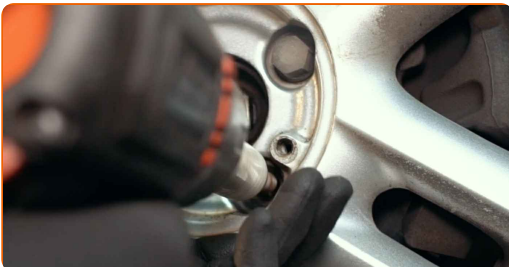


12 Raise the car.

Replacement: suspension strut – RENAULT Megane I Grandtour (KA). Tip:

- If you are using a jack, make sure it rests on a flat surface without any unevenness.
- Be sure to additionally secure the car with jack stands.

13 Unscrew the wheel bolts.



AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.
RENAULT Megane I Grandtour (KA)

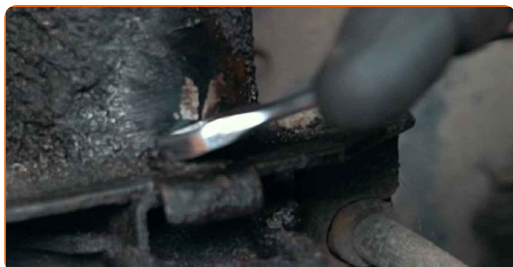
14 Remove the wheel.



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



16 Unscrew the fastener that connects the brake hose bracket to the suspension strut. Use a combination spanner #10.



17 Remove the brake hose bracket.



18

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



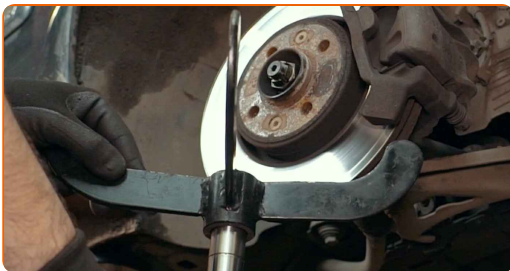
19

Unscrew the fasteners connecting the suspension strut to the steering knuckle. Use a combination spanner #21. Use a drive socket #21. Use a ratchet wrench.



20

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



21

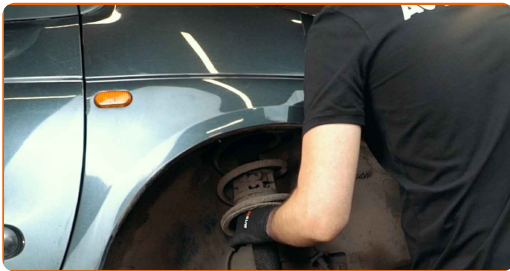
Remove the fastening bolts.



22 Disconnect the steering knuckle from the shock absorber strut.



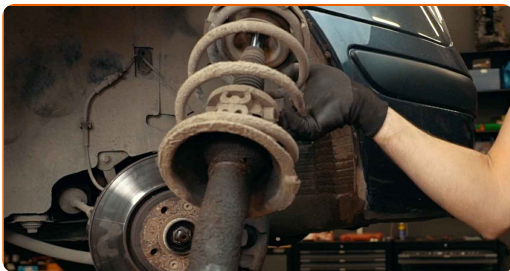
23 Unscrew the top fastening of the shock strut mount.



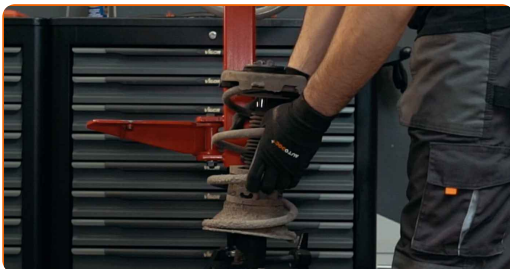
AUTODOC recommends:

- RENAULT Megane I Grandtour (KA) – To avoid injury, hold the suspension strut while unscrewing the fastening bolts.

24 Remove the suspension strut.



25 Set the shock absorber strut on the spring compressor tool.

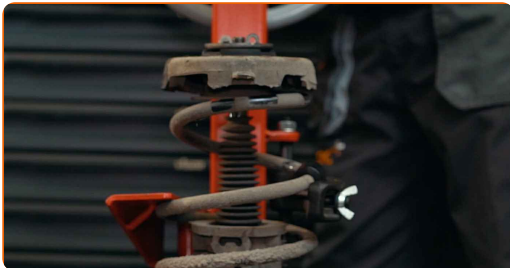


Replacement: suspension strut – RENAULT Megane I Grandtour (KA).
Professionals recommend:

- 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.

26

Compress the spring.



27

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



28

Remove the strut piston rod nut. Use a 21-mm strut nut socket. Use HEX No.H6.



29

Remove the top strut mount.



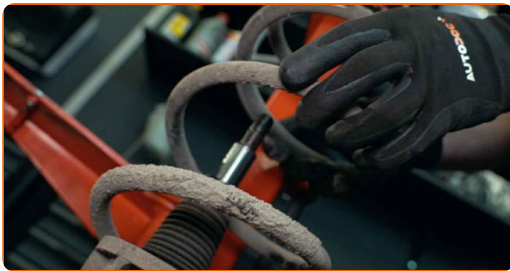
30

Release the coil spring.



31

Remove the spring.



32

Remove the shock absorber dust cap and the bump stop.



AUTODOC recommends:

- Replacement: suspension strut – RENAULT Megane I Grandtour (KA). Carefully inspect the mount, the boot, and the bump stop of the shock absorber. Replace if necessary.

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



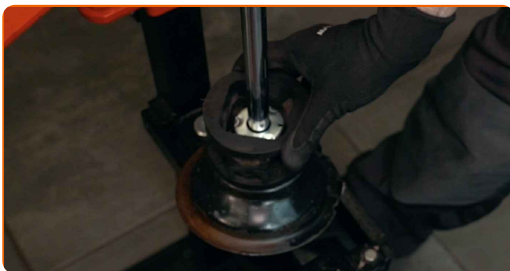
AUTODOC recommends:

- Before installing a new shock absorber you should pump it manually 3-5 times.

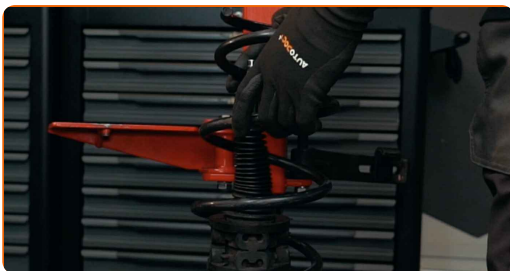
34 Install the new shock absorber on the hydraulic coil spring compressor.



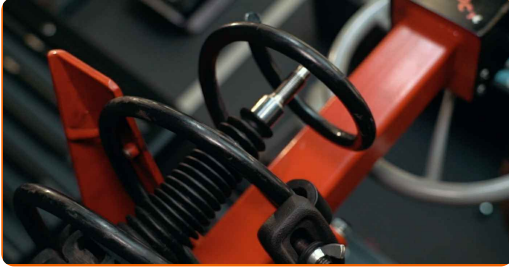
35 Install the dust sleeve and the bump stop on the new shock absorber.



36 Install the spring on the shock absorber.



37 Compress the spring.



Replacement: suspension strut – RENAULT Megane I Grandtour (KA). Tip from AUTODOC experts:

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

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



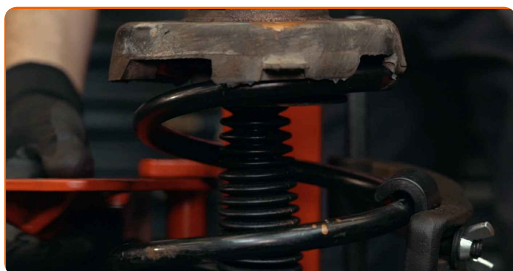
39 Tighten the shock strut piston rod nut. Use a 21-mm strut nut socket. Use HEX No.H6. Use a torque wrench. Tighten it to 60 nm torque.



40 Treat the shock strut rod. Use copper grease.



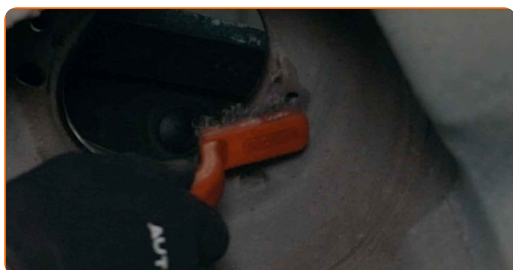
41 Decompress the spring.



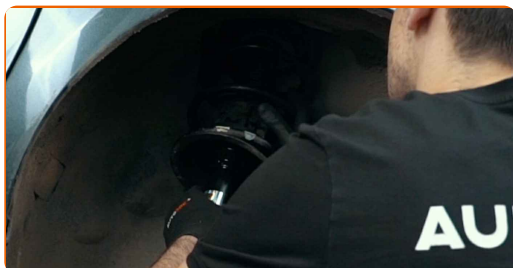
42 Remove the assembled shock strut.



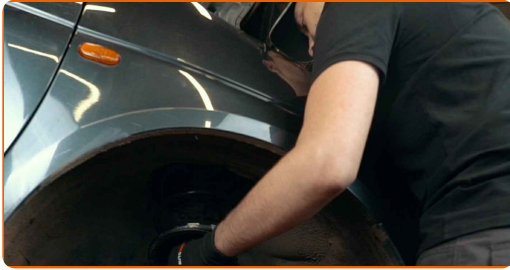
43 Clean the mounting seats of the shock strut. Use a wire brush. Use WD-40 spray.



44 Install the shock strut into the wheel arch.



45 Screw in the top fasteners of the suspension strut mount.



AUTODOC recommends:

- Important! Hold the suspension strut while screwing in the fastening bolts.
RENAULT Megane I Grandtour (KA)

46 Fix the shock absorber strut on the steering knuckle.



47 Install the fastening bolts.



48 Screw in the fasteners connecting the suspension strut to the steering knuckle. Use a combination spanner #21. Use a drive socket #21. Use a ratchet wrench.



49

Remove the support from under the steering knuckle.



AUTODOC recommends:

- Replacement: suspension strut – RENAULT Megane I Grandtour (KA). Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

50

Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a combination spanner #21. Use a drive socket #21. Use a torque wrench. Tighten it to 170 Nm torque.



51

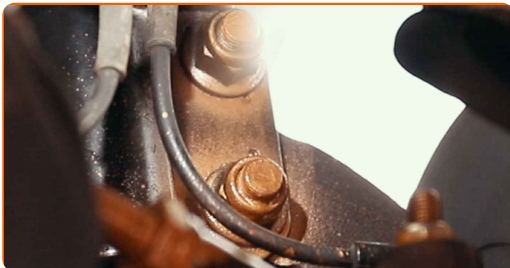
Install the brake hose bracket.



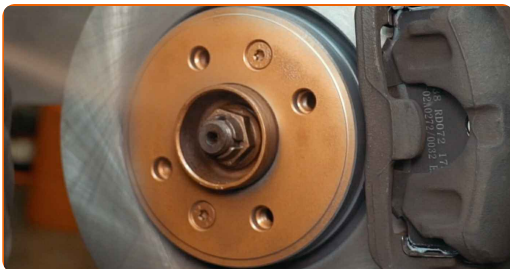
- 52 Tighten the fastener that connects the brake hose bracket to the suspension strut. Use a combination spanner #10.



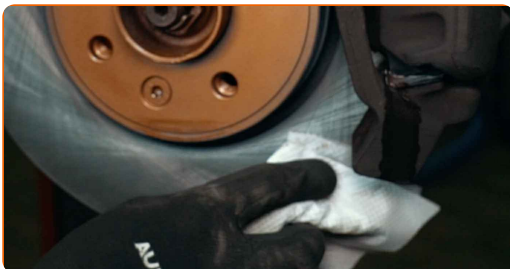
- 53 Treat the shock strut fasteners. Use copper grease.



- 54 Treat the surface where the brake disc contacts the wheel rim. Use copper grease.



- 55 Clean the brake disk surface. Use a brake cleaner.



AUTODOC recommends:

- Replacement: suspension strut – RENAULT Megane I Grandtour (KA). After applying the spray, wait a few minutes.

56 Install the wheel.



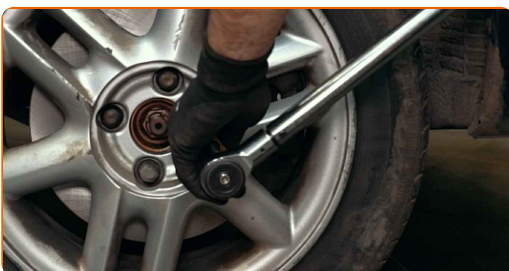
AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. RENAULT Megane I Grandtour (KA)

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



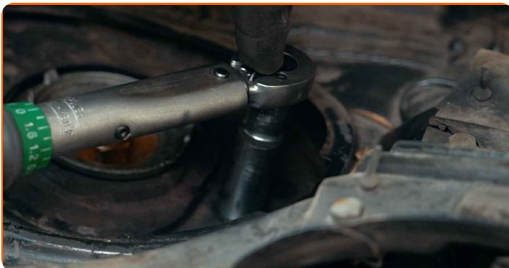
58 Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #19. Use a torque wrench. Tighten it to 90 Nm torque.



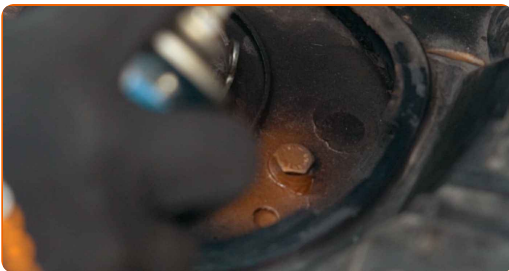
59 Remove the jacks and chocks.



60 Tighten the upper fasteners of the suspension strut mount. Use a drive socket #13. Use a torque wrench. Tighten it to 30 Nm torque.



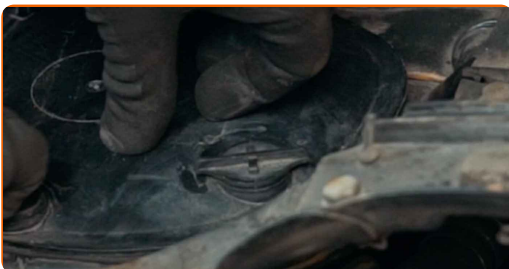
61 Treat the fasteners of the shock strut mount. Use copper grease.



62 Install the suspension strut mount cap.



63 Install the retainers of the shock strut mount cap.



64 Install the wiper cowl grille located on the right side.



65 Install and secure the cowl grille. Use Torx T20. Use a ratchet wrench.



66 Install the cowl grille seal.



67 Remove the fender protection cover.

68 Close the hood.

WELL DONE! 👍

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