



How to change front
suspension strut on
FORD C-MAX (DM2) –
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:
FORD C-MAX (DM2) 1.6

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: FORD Focus II Estate (DA_, FFS, DS) 1.4

REPLACEMENT: SUSPENSION STRUT – FORD C-MAX (DM2). TOOLS YOU MIGHT NEED:



- Wire brush
- WD-40 spray
- Copper grease
- Drive socket # 13
- Drive socket # 15
- Drive socket # 18
- Torx bit T40
- Torx bit T30
- HEX bit No.H6.
- Shock absorber socket
- Wheel impact socket #19
- Combination spanner #19
- Ratchet wrench
- Torque wrench
- Tap wrench
- Hammer
- Flat chisel
- Crow bar
- Hydraulic transmission jack
- Hydraulic strut spring compressor
- Fender cover
- Wheel chock

Buy tools

Replacement: suspension strut – FORD C-MAX (DM2). AUTODOC experts recommend:

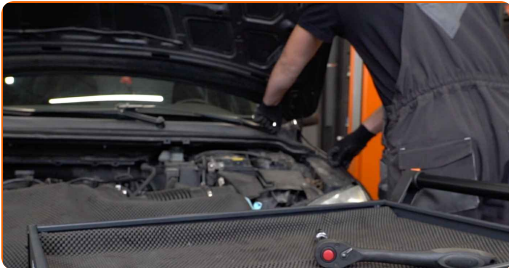
- Both shock struts of the front suspension should be replaced simultaneously.
- The replacement procedure is identical for the left and right shock struts of the front suspension.
- All work should be done with the engine stopped.

REPLACEMENT: SUSPENSION STRUT – FORD C-MAX (DM2). 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 windscreen wiper arm nut covers.



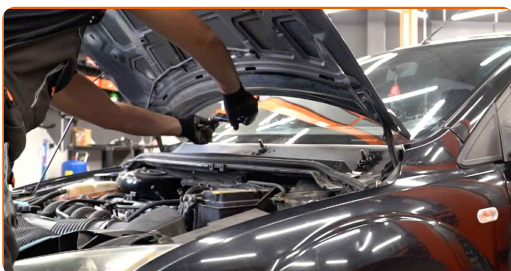
4 Unscrew the fasteners of the windscreen wiper arms. Use a drive socket #15. Use a ratchet wrench.



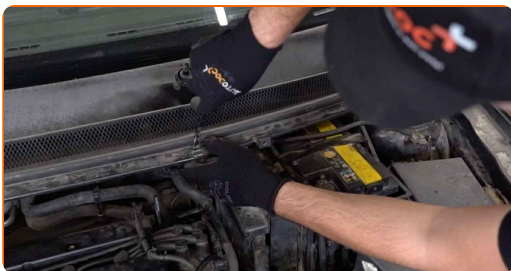
5 Clean the pivots of the windscreen wiper arms. Use WD-40 spray.



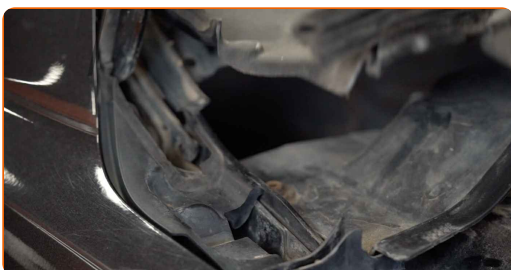
6 Remove the wiper arms.



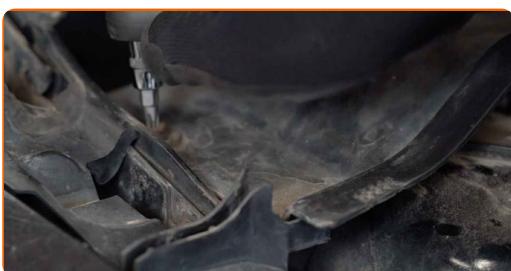
7 Remove the clips of the plastic cowl grille. Use a crowbar.



8 Raise the wiper plastic cowl grille.



9 Unscrew the fastener of the lower wiper plastic cowl grille. Use Torx T30. Use a ratchet wrench.



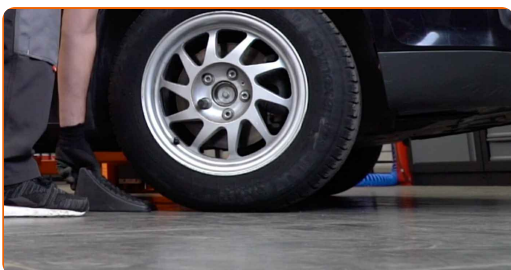
10 Remove the lower wiper plastic cowl grille.



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



12 Secure the wheels with chocks.



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



14 Raise the front of the car and secure on supports.

15

Unscrew the wheel bolts.

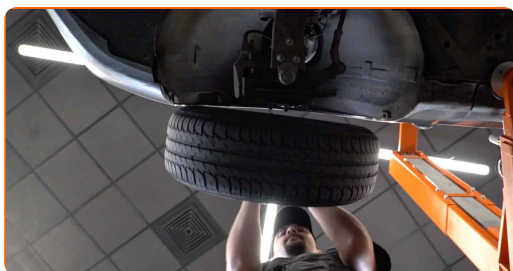


Replacement: suspension strut – FORD C-MAX (DM2). AUTODOC recommends:

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

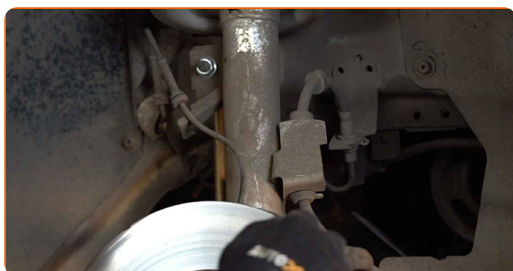
16

Remove the wheel.

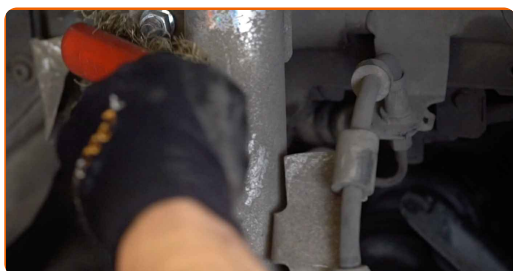


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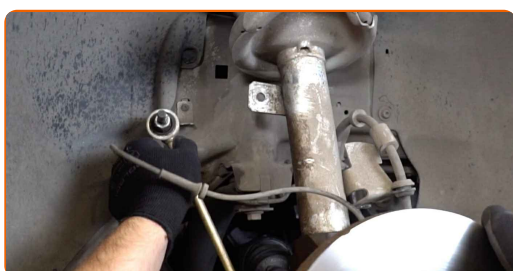
Disconnect the wiring and the brake hose from the bracket on the shock strut.



- 18 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.



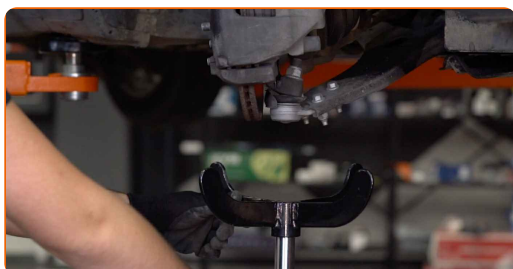
- 19 Unscrew the nut and remove the stabilizer rod from the shock strut. Use a drive socket #15. Use a ratchet wrench.



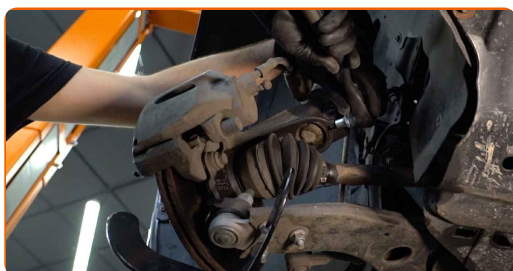
- 20 Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use a drive socket #18. Use a ratchet wrench. Use a tap wrench.



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



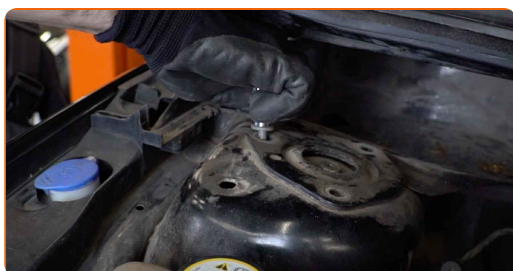
- 22 Release the lower fastener connecting the shock strut to the steering knuckle. Use a special drive socket to remove the shock absorber. Use a hammer. Use a flat metal-working chisel.



- 23 Disconnect the steering knuckle from the shock absorber strut. Use a crowbar.



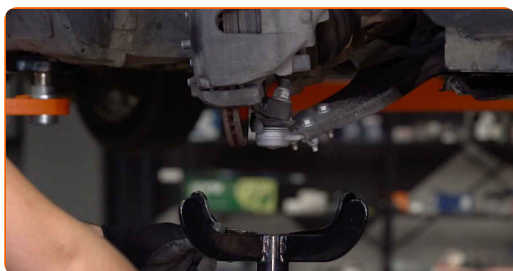
- 24 Unscrew the upper fastening of the shock absorber strut.



AUTODOC recommends:

- Important! Hold the suspension strut while unscrewing the fastening bolts. FORD C-MAX (DM2)

- 25 Lower the hydraulic transmission jack by 10-15 cm.



Replacement: suspension strut – FORD C-MAX (DM2). Tip:

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

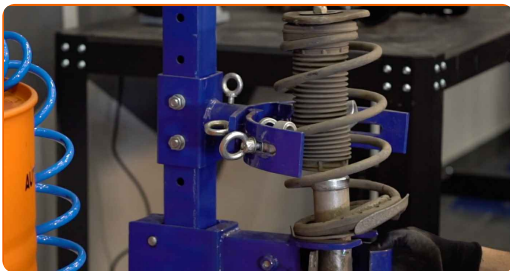
26

Remove the suspension strut.



27

Set the shock absorber strut on the spring compressor tool.



Replacement: suspension strut – FORD C-MAX (DM2). 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.

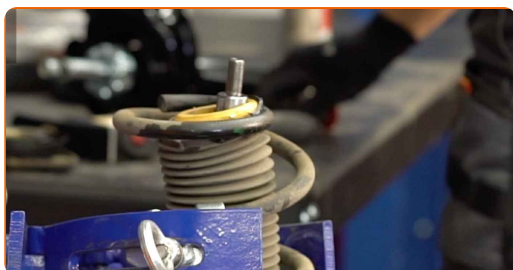
28 Compress the spring.



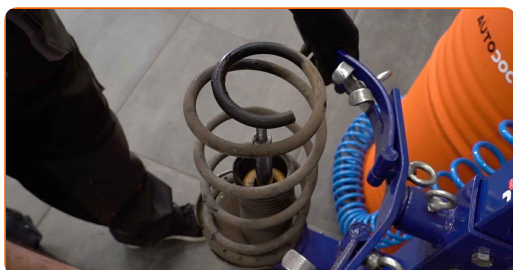
29 Remove the strut piston rod nut. Use Torx T40. Use a combination spanner #19. Use a ratchet wrench.



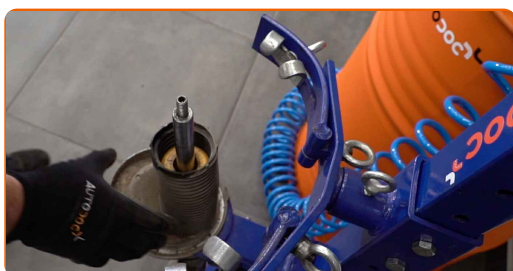
30 Remove the top strut mount. Use a crowbar.



31 Release the coil spring.

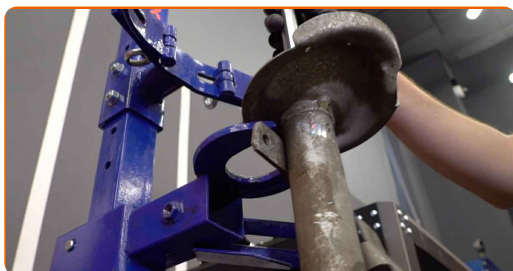


32 Remove the spring.



33

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

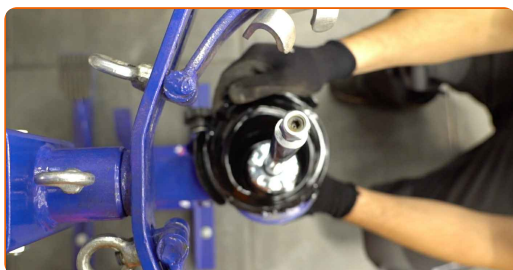


Replacement: suspension strut – FORD C-MAX (DM2). Professionals recommend:

- 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.

34

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

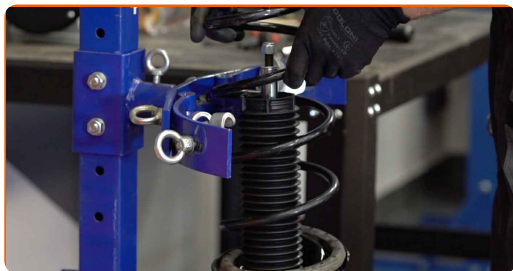


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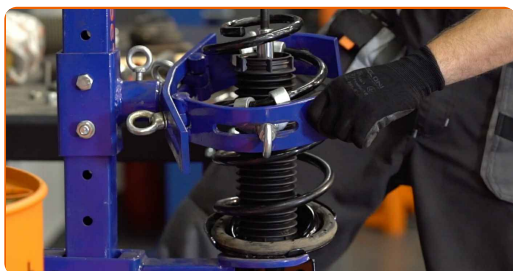
Install the dust sleeve and the bump stop on the new shock absorber.



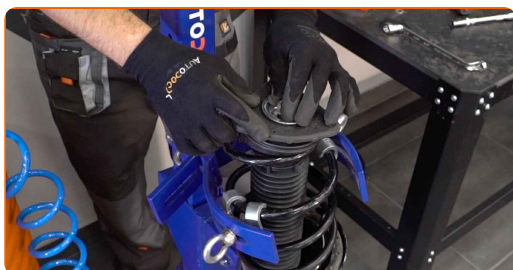
36 Install the spring on the shock absorber.



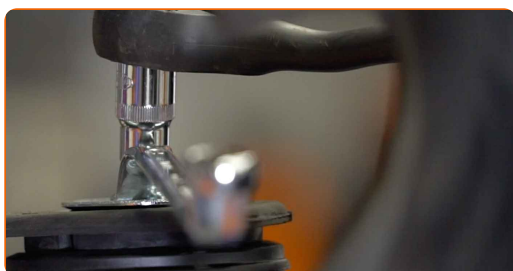
37 Compress the spring.



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



39 Tighten the shock strut piston rod nut. Use HEX No.H6. Use a combination spanner #19. Use a torque wrench. Tighten it to 50 Nm torque.



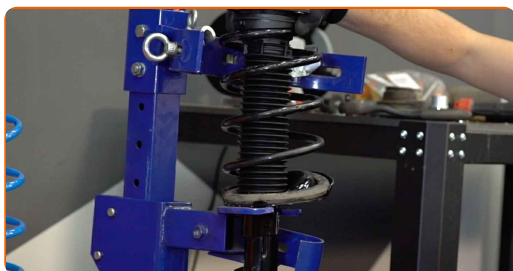
Replacement: suspension strut – FORD C-MAX (DM2). AUTODOC recommends:

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

40 Decompress the spring.



41 Remove the assembled shock strut.



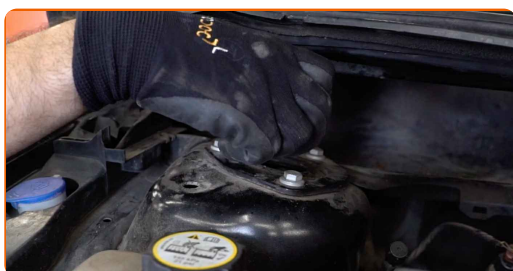
42 Clean the mounting seats of the shock strut. Use a wire brush. Use WD-40 spray.



43 Install the shock strut into the wheel arch.



44 Secure the upper fasteners of the shock strut (3 pieces). Do not tighten it.

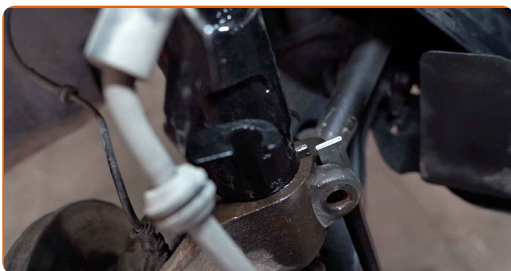


AUTODOC recommends:

- FORD C-MAX (DM2) – To avoid injury, hold the suspension strut while screwing in the fastening bolts.

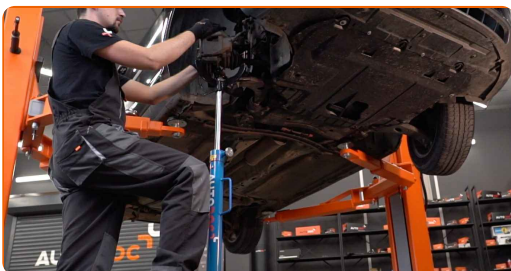
45

Fix the shock absorber strut on the steering knuckle. Use a crowbar.



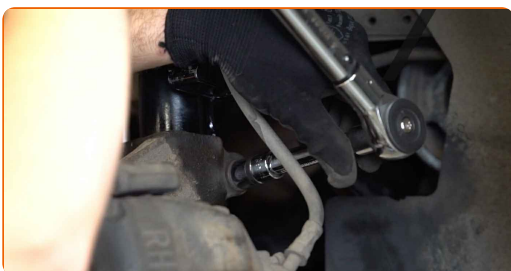
46

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



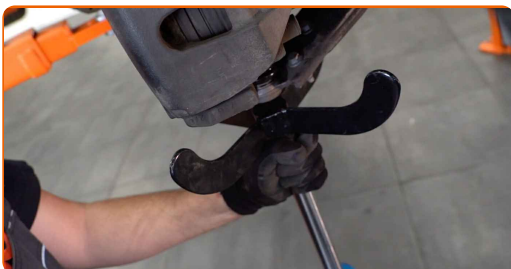
47

Install and tighten a new bolt of the steering knuckle. Use a drive socket #18. Use a ratchet wrench. Use a torque wrench. Tighten it to 90 Nm torque.



48

Remove the support from under the steering knuckle.

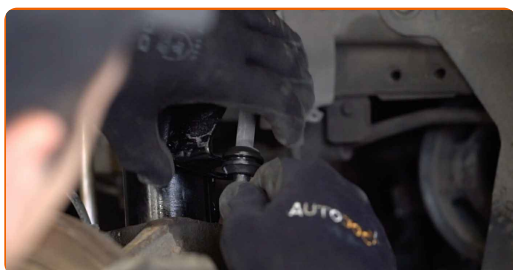


AUTODOC recommends:

- Replacement: suspension strut – FORD C-MAX (DM2). Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

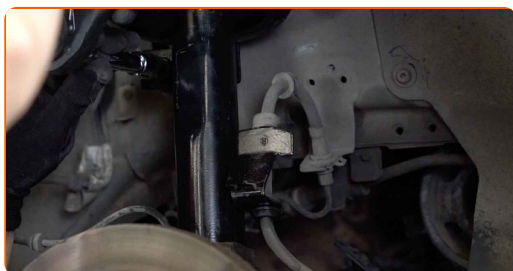
49

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



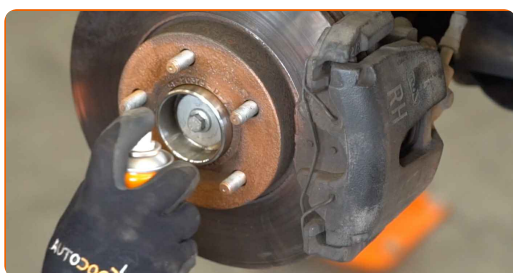
50

Secure the stabilizer link on the suspension strut. Use a drive socket #15. Use a torque wrench. Tighten it to 48 Nm torque.



51

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



52 Install the wheel.



Replacement: suspension strut – FORD C-MAX (DM2). Tip:

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

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

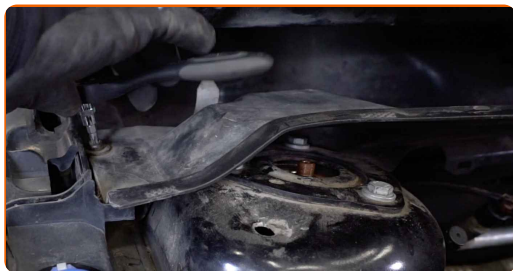


54 Tighten the shock strut top mount (3 pieces). Use a drive socket #13. Use a torque wrench. Tighten it to 30 Nm torque.

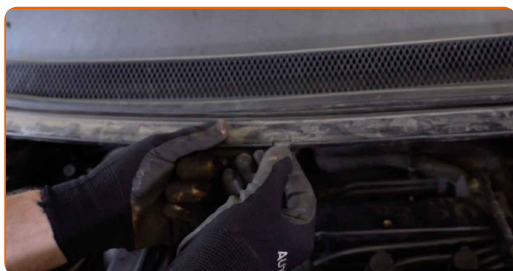


55 Clean the mounting seat of the cowl grille. Use WD-40 spray.

56 Install and secure the cowl grille. Use Torx T30. Use a ratchet wrench.



57 Install the fasteners of the wiper plastic cowl grille.



58 Reinstall the wiper arms.



59 Tighten the fasteners of the wiper arms. Use a drive socket #15. Use a torque wrench. Tighten it to 10 Nm torque.



Replacement: suspension strut – FORD C-MAX (DM2). Tip from AUTODOC:

- Make sure not to mix up the wiper arms on the driver's and passenger's sides.

60 Install the nut covers of the windscreen wiper arms.

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



62 Remove the jacks and chocks.



63 Remove the fender protection cover.

64 Close the hood.

WELL DONE! 

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