



How to change front
suspension strut on
FORD FOCUS Estate
(DNW) – replacement
guide

SIMILAR VIDEO TUTORIAL



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

i Important!

This replacement procedure can be used for:

FORD FOCUS Estate (DNW) 1.4 16V, FORD FOCUS Estate (DNW) 1.6 16V, FORD FOCUS Estate (DNW) 1.8 16V, FORD FOCUS Estate (DNW) 2.0 16V, FORD FOCUS Estate (DNW) 1.8 Turbo DI / TDDi, FORD FOCUS Estate (DNW) 1.8 DI / TDDi, FORD FOCUS Estate (DNW) 1.8 TDCi, FORD FOCUS Estate (DNW) ST170, FORD FOCUS Estate (DNW) 1.8 BiFuel, FORD FOCUS Estate (DNW) 1.6 16V Flexifuel

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 (DAW, DBW) 1.8 TDCi

REPLACEMENT: SUSPENSION STRUT – FORD FOCUS ESTATE (DNW). TOOLS YOU MIGHT NEED:



- Wire brush
- WD-40 spray
- All-purpose cleaning spray
- Copper grease
- Torque wrench
- Combination spanner #15
- Drive socket # 13
- Drive socket # 15
- Drive socket # 19
- Drive socket # 32
- HEX bit No.H6
- HEX bit No.H7
- Torx bit T50
- Shock absorber socket
- Wheel impact socket #19
- Ratchet wrench
- Hydraulic strut spring compressor
- Pin punch
- Tap wrench
- Hammer
- Flat chisel
- Flat Screwdriver
- Crow bar
- Hydraulic transmission jack
- Fender cover
- Wheel chock

Buy tools

Replacement: suspension strut – FORD FOCUS Estate (DNW). AUTODOC experts recommend:

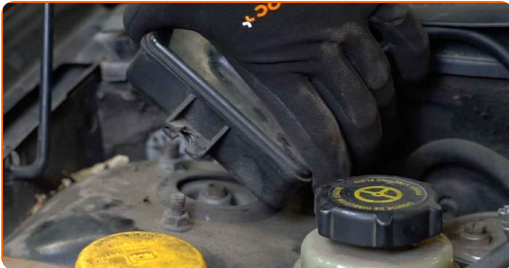
- Both shock struts of the front suspension should be replaced simultaneously.
- The replacement procedure is identical for the left and right shock struts of the front suspension.
- All work should be done with the engine stopped.

REPLACEMENT: SUSPENSION STRUT – FORD FOCUS ESTATE (DNW). RECOMMENDED SEQUENCE OF STEPS:

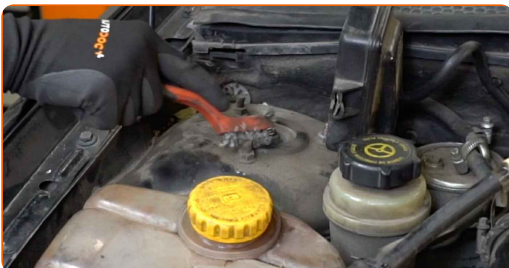
1 Open the hood.

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

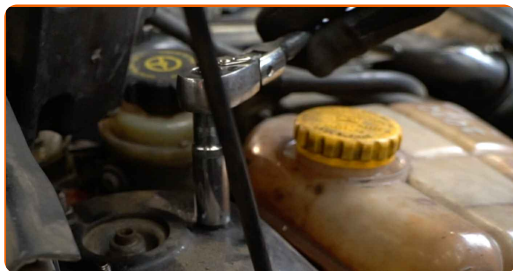
3 Detach the engine wiring harness. Use a flat screwdriver.



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



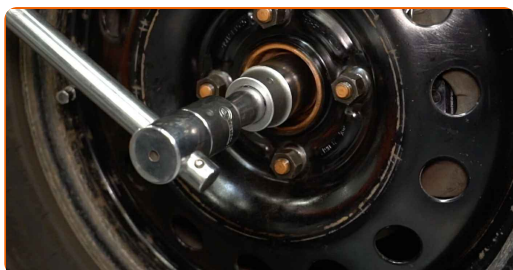
5 Loosen the upper fasteners of the suspension strut (3 pieces). Use a drive socket #13. Use a ratchet wrench.



6 Clean the fastener of the driveshaft. Use a wire brush. Use WD-40 spray.



7 Loosen the fastener of the driveshaft. Use a drive socket #32. Use a tap wrench.



8 Secure the wheels with chocks.

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



10

Raise the front of the car and secure on supports.

11

Unscrew the wheel bolts.



Replacement: suspension strut – FORD FOCUS Estate (DNW). Tip from AUTODOC experts:

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

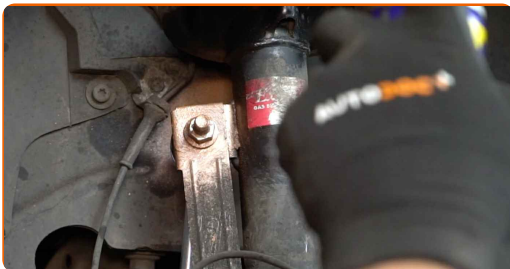
12

Remove the wheel.



13

Clean the stabiliser link fasteners. Use a wire brush. Use WD-40 spray.



- 14** Unscrew the fastener connecting the stabilizer link to the shock strut. Use a combination spanner #15. Use a drive socket #15. Use a ratchet wrench.



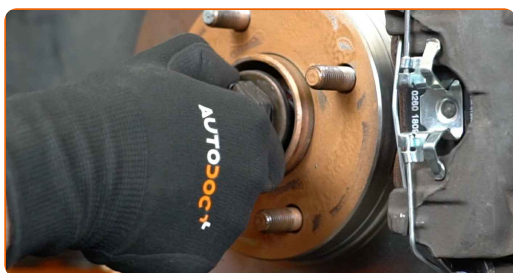
- 15** Remove the stabilizer rod.



- 16** Detach the brake hose from the shock strut. Use a crowbar.



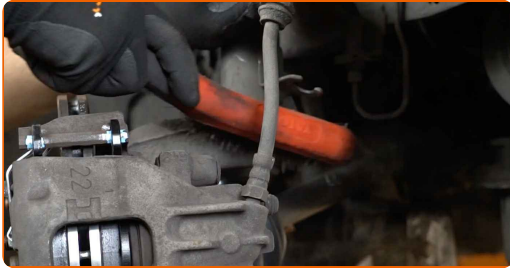
- 17** Unscrew the fastener connecting the drive shaft to the wheel hub.



- 18** Remove the fastening nut.

19

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



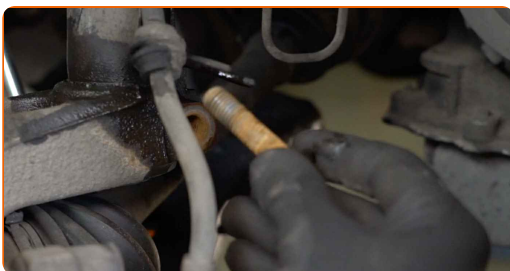
20

Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use a drive socket #15. Use a ratchet wrench. Use a tap wrench.



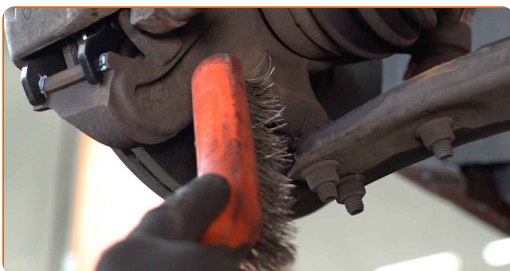
21

Remove the fastening bolt.

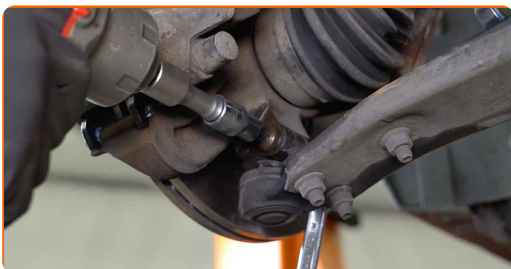


22

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



- 23 Unscrew the ball joint fastening to the steering knuckle. Use Torx T50. Use a combination spanner #15. Use a ratchet wrench.



- 24 Release the fastener connecting the ball joint to the steering knuckle. Use a flat metal-working chisel. Use a hammer.

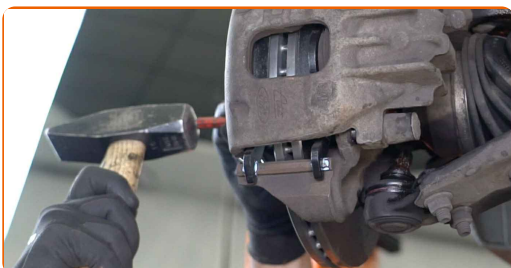


- 25 Remove the fastening bolt.

- 26 Disconnect the ball joint from the steering knuckle.



- 27 Detach the driveshaft from the steering knuckle. Use a pin punch. Use a hammer.

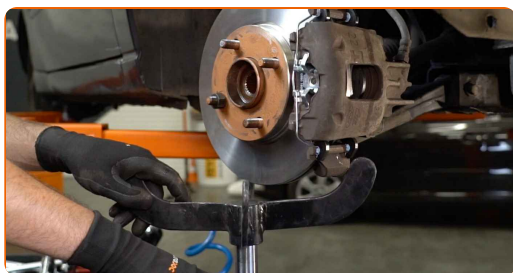


Replacement: suspension strut – FORD FOCUS Estate (DNW). AUTODOC recommends:

- Make sure that the drive shaft is not unloaded (when the car is jacked).

28

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



29

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.



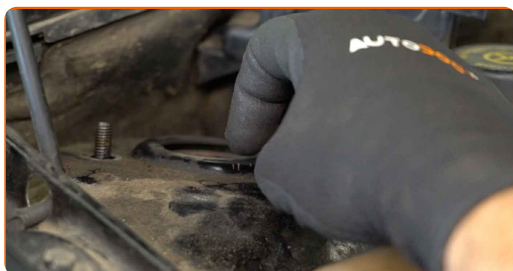
30

Disconnect the steering knuckle from the shock absorber strut.



31

Unscrew the upper fasteners of the shock strut (3 pieces).



AUTODOC recommends:

- FORD FOCUS Estate (DNW) – To avoid injury, hold the suspension strut while unscrewing the fastening bolts.

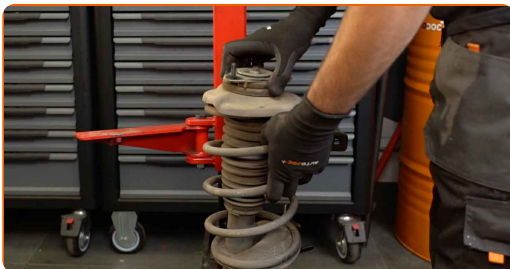
32

Remove the suspension strut.



33

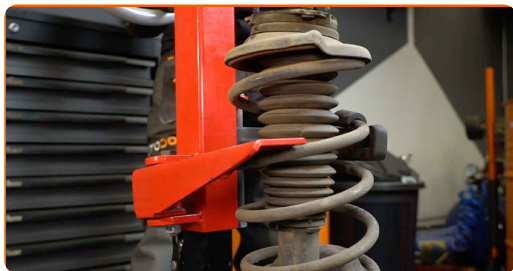
Set the shock absorber strut on the spring compressor tool.



Replacement: suspension strut – FORD FOCUS Estate (DNW). Tip:

- 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.

34 Compress the spring.



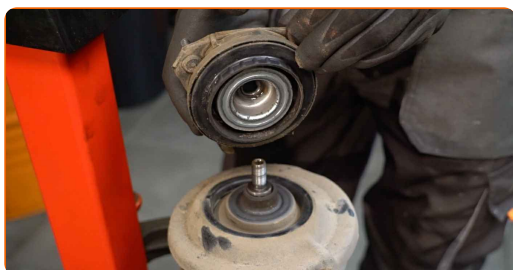
35 Treat the shock strut rod. Use a wire brush. Use WD-40 spray.



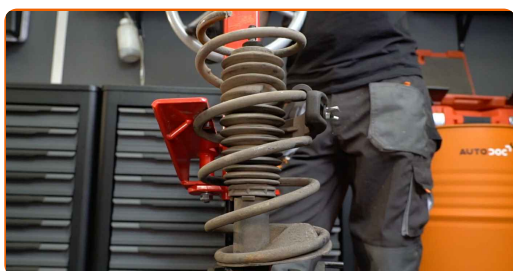
36 Remove the strut piston rod nut. Use a drive socket #19. Use HEX No.H6. Use a ratchet wrench.



37 Remove the top strut mount.

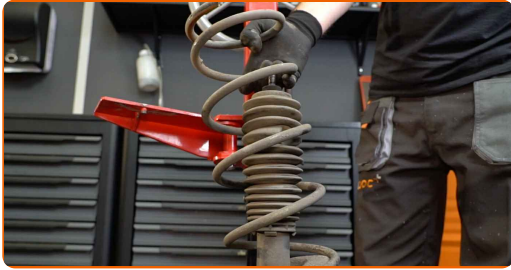


38 Release the coil spring.



39

Remove the spring.



40

Remove the shock absorber dust cap and the bump stop.

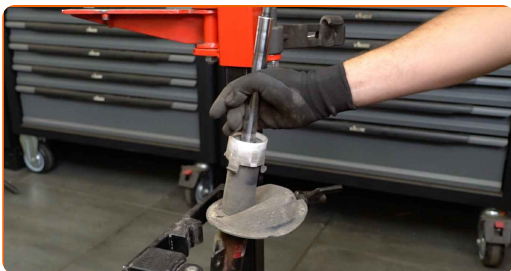


AUTODOC recommends:

- Replacement: suspension strut – FORD FOCUS Estate (DNW). Carefully inspect the mount, the boot, and the bump stop of the shock absorber. Replace if necessary.

41

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



Replacement: suspension strut – FORD FOCUS Estate (DNW). AUTODOC experts recommend:

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

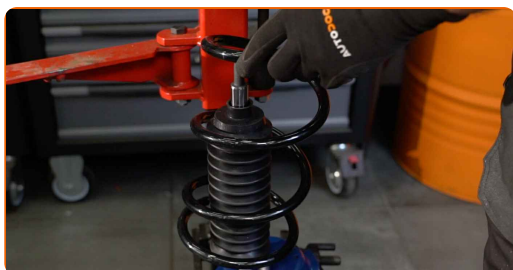
42 Install the new shock absorber on the hydraulic coil spring compressor.



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



44 Install the spring on the shock absorber.



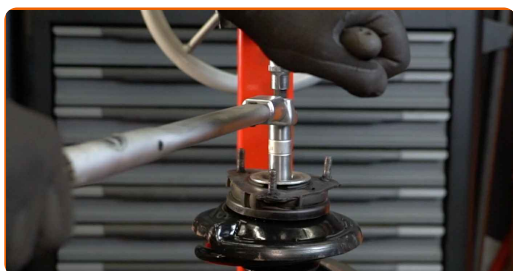
45 Compress the spring.



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



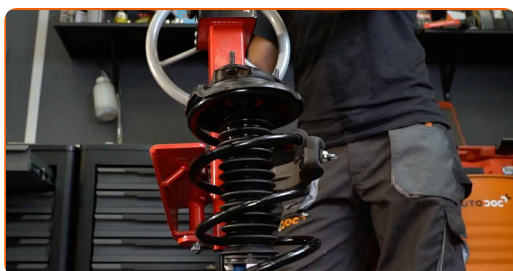
- 47** Tighten the shock strut piston rod nut. Use a drive socket #19. Use HEX No.H7. Use a torque wrench. Tighten it to 48 Nm torque.



Replacement: suspension strut – FORD FOCUS Estate (DNW). Professionals recommend:

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

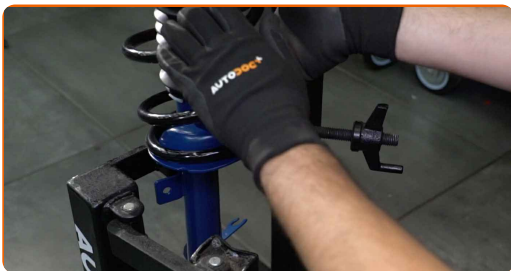
- 48** Decompress the spring.



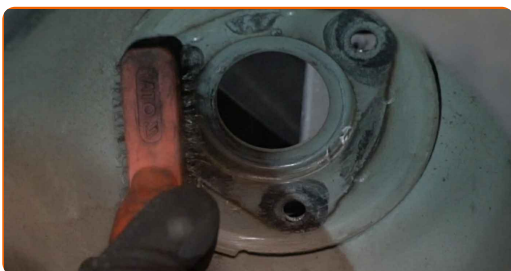
- 49** Treat the shock strut rod. Use copper grease.



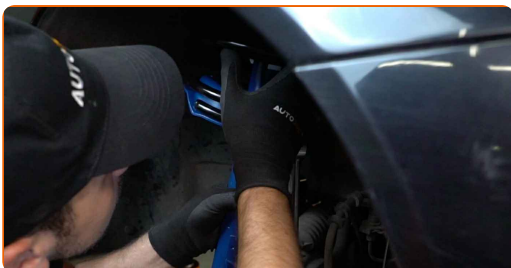
50 Remove the assembled shock strut.



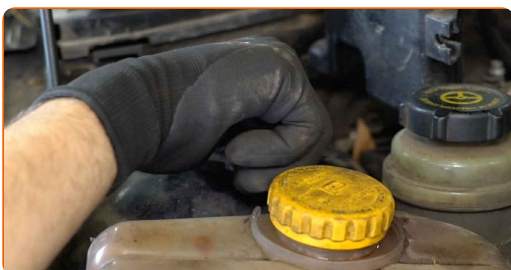
51 Clean the mounting seats of the shock strut. Use a wire brush. Use WD-40 spray.



52 Install the shock strut into the wheel arch.



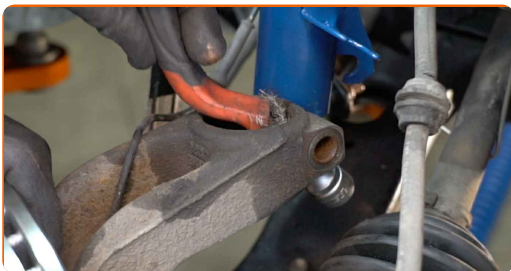
53 Secure the upper fasteners of the shock strut (3 pieces). Do not tighten it.



AUTODOC recommends:

- FORD FOCUS Estate (DNW) – To avoid injury, hold the suspension strut while screwing in the fastening bolts.

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



55 Fix the shock absorber strut on the steering knuckle.



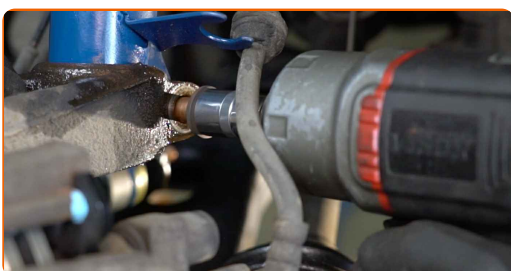
56 Raise the hydraulic transmission jack by 10-15 cm.



57 Install the fastening bolt.



58 Screw in the fastener that connects the shock strut to the steering knuckle. Use a drive socket #15. Use a ratchet wrench.



59 Remove the support from under the steering knuckle.

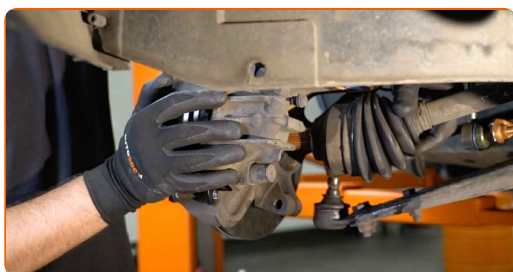
AUTODOC recommends:

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

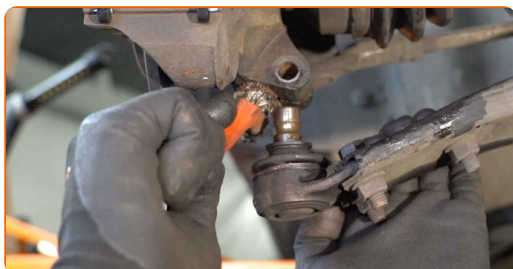
60 Clean the splines of the drive shaft CV joint. Use a wire brush. Use WD-40 spray.



61 Install the drive shaft.



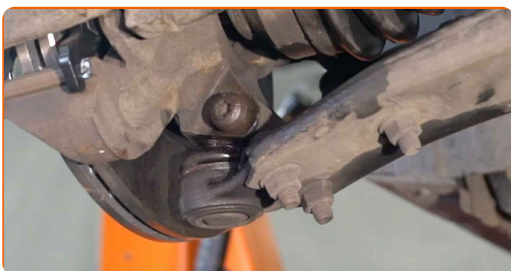
62 Clean the ball joint mounting seat. Use a wire brush. Use WD-40 spray.



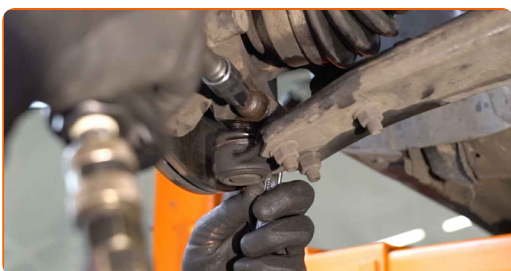
63 Connect the ball joint to the steering knuckle.



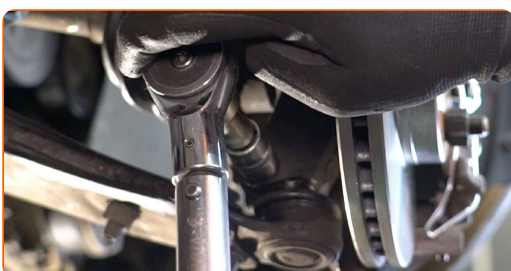
64 Install the fastening bolt.



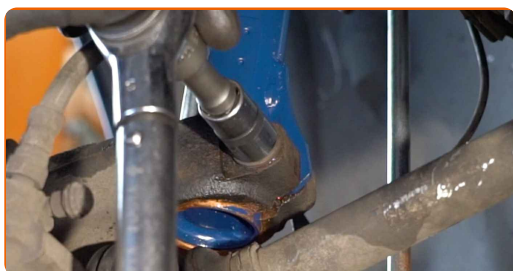
65 Screw the fastener connecting the ball joint to the steering knuckle. Use Torx T50. Use a combination spanner #15. Use a ratchet wrench.



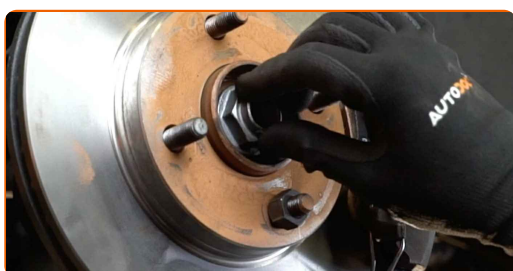
66 Tighten the fastener connecting the ball joint to the steering knuckle. Use a drive socket #15. Use a torque wrench. Tighten it to 47 Nm torque.



- 67 Tighten the lower fastening of the shock absorber. Use a drive socket #15. Use a torque wrench. Tighten it to 90 Nm torque.



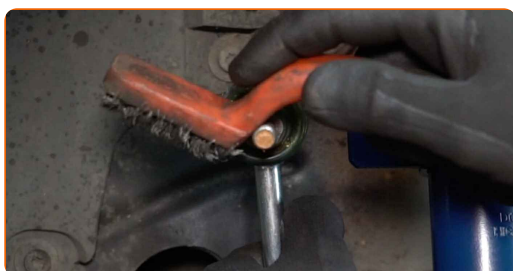
- 68 Install the fastening nut.



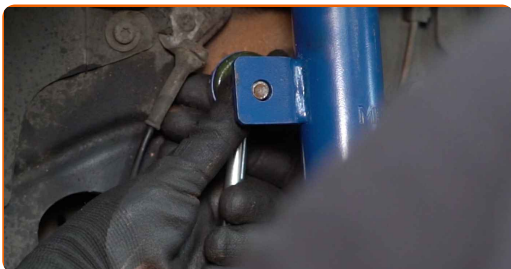
- 69 Screw the nut of the drive shaft. Use a drive socket #32. Use a ratchet wrench.



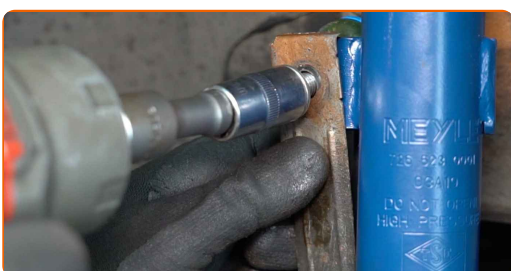
- 70 Clean the mounting seats of the stabiliser link. Use a wire brush. Use WD-40 spray.



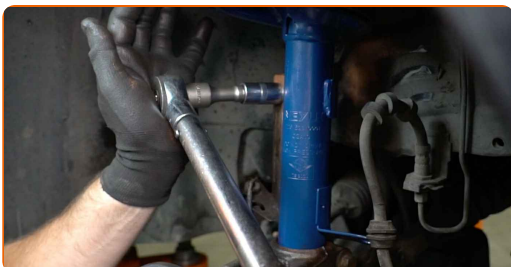
71 Install the transverse stabilizer link.



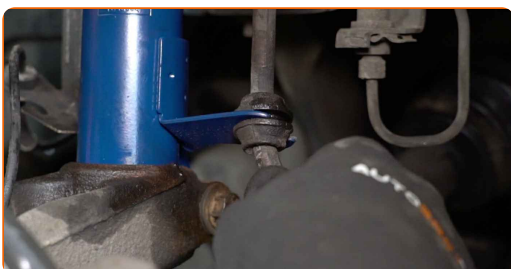
72 Tighten the stabiliser link fastener. Use a combination spanner #15. Use a drive socket #15. Use a ratchet wrench.



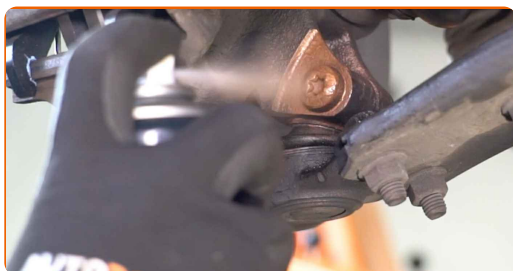
73 Tighten the fastener connecting the stabilizer link to the shock strut. Use a drive socket #15. Use a torque wrench. Tighten it to 50 Nm torque.



74 Fasten the brake hose on the strut.



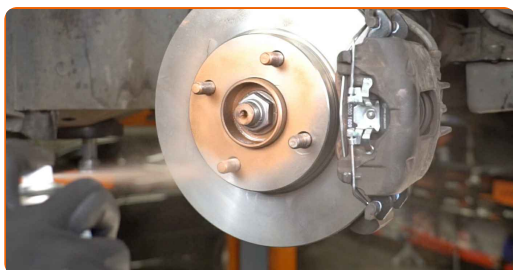
75 Treat the shock strut fasteners. Use copper grease.



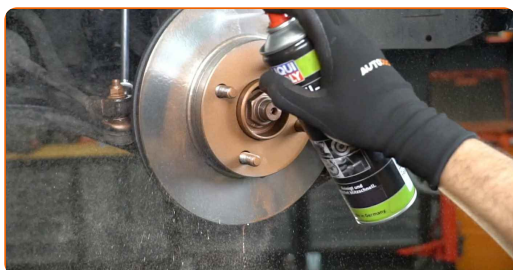
76 Clean the wheel rim mounting seat. Use a wire brush.



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



78 Clean the brake disk surface. Use a brake cleaner.



AUTODOC recommends:

- Replacement: suspension strut – FORD FOCUS Estate (DNW). After applying the spray, wait a few minutes.

79 Install the wheel.



AUTODOC recommends:

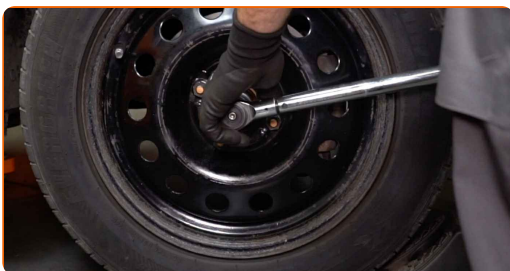
- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. FORD FOCUS Estate (DNW)

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

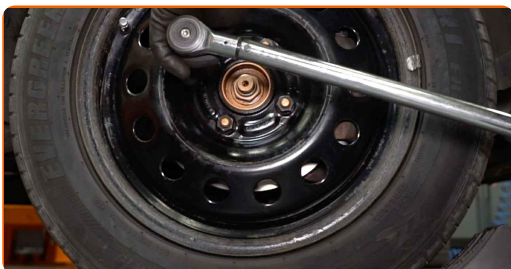


81 Lower the car.

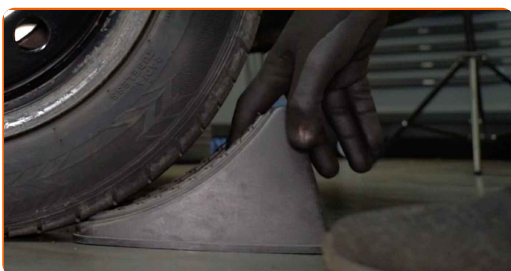
82 Tighten the drive shaft nut. Use a drive socket #32. Use a torque wrench. Tighten it to 275 Nm torque.



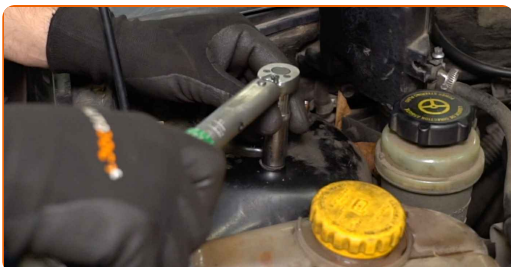
83 Tighten the wheel bolts using a criss-cross pattern. Use wheel impact socket #19. Use a torque wrench. Tighten it to 110 Nm torque.



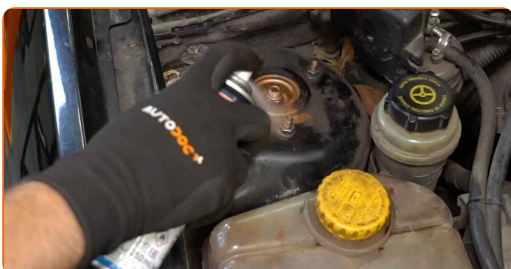
84 Remove the jacks and chocks.



85 Tighten the upper fasteners of the shock strut (3 pieces). Use a drive socket #13. Use a torque wrench. Tighten it to 25 Nm torque.



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



87

Attach the engine wiring harness.



88

Remove the fender protection cover.

89

Close the hood.

WELL DONE! 

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