



How to change front
suspension strut on
FORD MONDEO III (B5Y)
– 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 MONDEO III (B5Y) 1.8 16V, FORD MONDEO III (B5Y) 2.0 16V, FORD MONDEO III (B5Y) 2.5 V6 24V, FORD MONDEO III (B5Y) 2.0 16V DI / TDDi / TDCi, FORD MONDEO III (B5Y) 2.0 16V TDDi / TDCi, FORD MONDEO III (B5Y) 2.0 TDCi, FORD MONDEO III (B5Y) ST220, FORD MONDEO III (B5Y) 1.8 SCi, FORD MONDEO III (B5Y) 2.2 TDCi, FORD MONDEO III (B5Y) 3.0 V6 24V

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 MONDEO III Saloon (B4Y) 2.0 16V

REPLACEMENT: SUSPENSION STRUT – FORD MONDEO III (B5Y). LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- All-purpose cleaning spray
- Copper grease
- Torque wrench
- Combination spanner #15
- Combination spanner #17
- Drive socket # 13
- Drive socket # 15
- Drive socket # 17
- Drive socket # 19
- Drive socket # 32
- Shock absorber socket
- HEX bit No.H6
- Wheel impact socket #19
- Ratchet wrench
- Pin punch
- Hammer
- Tap wrench
- Hydraulic strut spring compressor
- Hydraulic transmission jack
- Fender cover
- Wheel chock

Buy tools

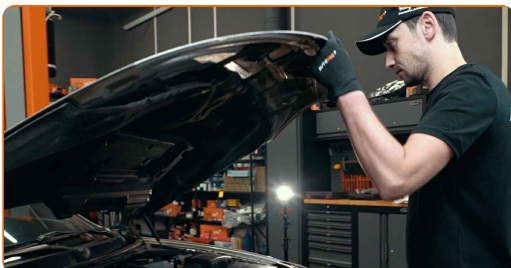
Replacement: suspension strut – FORD MONDEO III (B5Y). AUTODOC experts recommend:

- 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 – FORD MONDEO III (B5Y) – should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

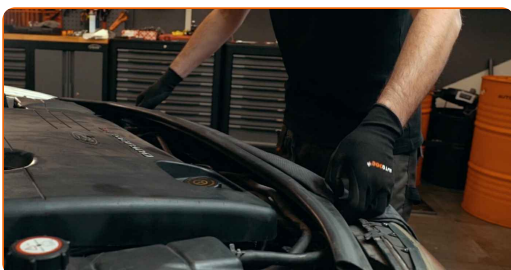
1

Open the bonnet.



2

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



3

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



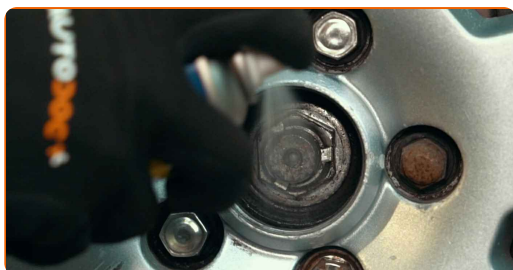
4

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



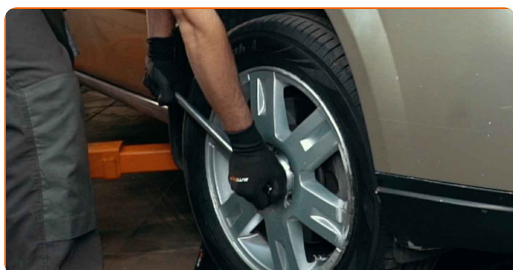
5

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



6

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



7

Secure the wheels with chocks.

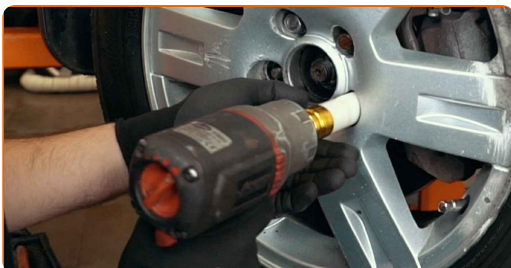
8 Loosen the wheel mounting bolts. Use wheel impact socket #19.



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



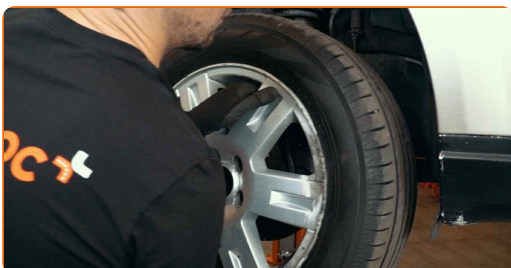
10 Unscrew the wheel bolts.



AUTODOC recommends:

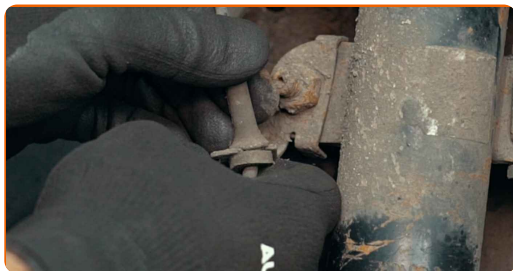
- Important! Hold the wheel while unscrewing the fastening bolts. FORD MONDEO III (B5Y)

11 Remove the wheel.



12

Disconnect the ABS sensor wiring.



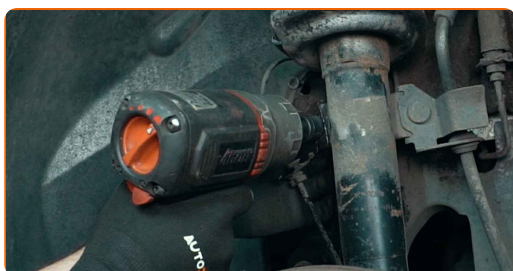
13

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



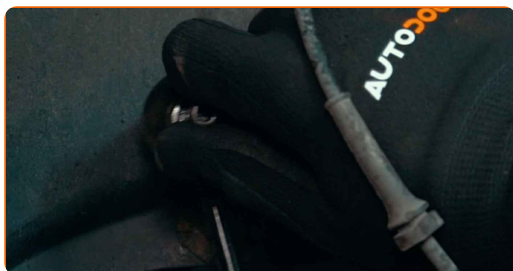
14

Unscrew the fastener connecting the stabilizer link to the shock strut. Use a drive socket #17. Use a ratchet wrench.

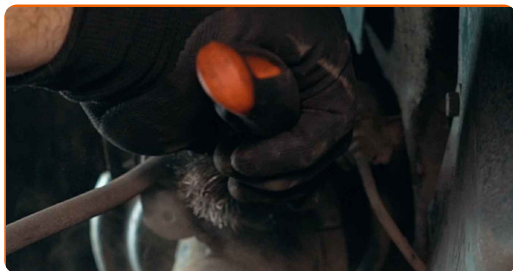


15

Remove the stabilizer rod.



16 Clean the fasteners connecting the brake hose to the shock strut. Use a wire brush. Use WD-40 spray.



17 Unscrew the brake hose fastening bracket from the shock strut. Use a combination spanner #15.



18 Clean the lower fastener connecting the suspension strut to the steering knuckle. Use a wire brush. Use WD-40 spray.



19 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.



20 Remove the fastening bolt.



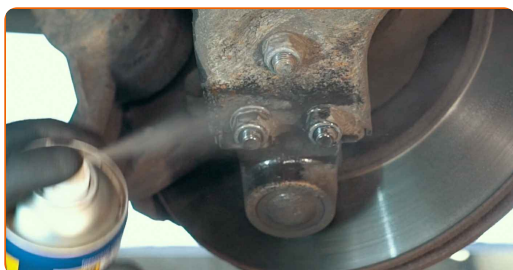
21 Unscrew the fastener connecting the drive shaft to the wheel hub. Use a drive socket #32. Use a ratchet wrench.



22 Remove the fastening nut.



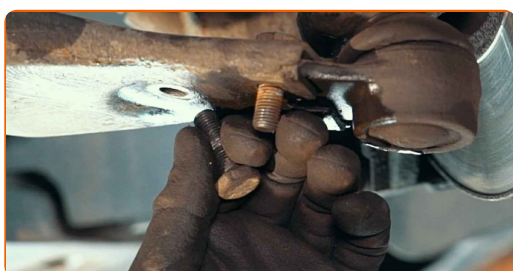
23 Clean the fasteners connecting the ball joint to the suspension control arm. Use a wire brush. Use WD-40 spray.



- 24** Unscrew the fastener connecting the ball joint to the suspension control arm. Use a combination spanner #17. Use a drive socket #17. Use a ratchet wrench.



- 25** Remove the fastening bolts.



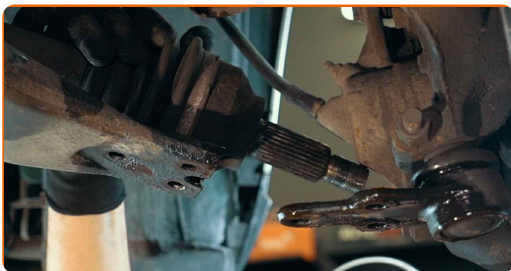
- 26** Detach the driveshaft from the steering knuckle. Use a pin punch. Use a hammer.



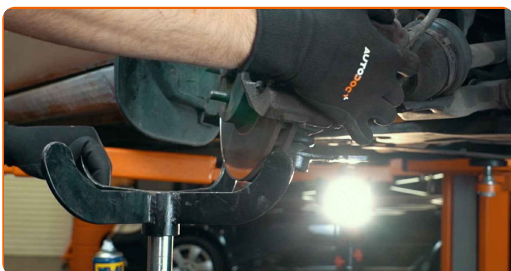
Replacement: suspension strut – FORD MONDEO III (B5Y). Tip from AUTODOC experts:

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

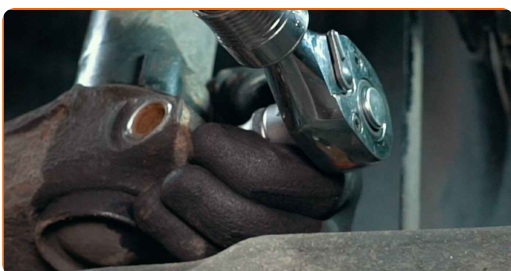
27 Disconnect the spherical joint from the arm.



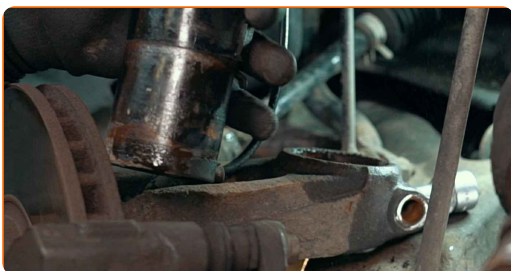
28 Prop up the steering knuckle. Use a hydraulic transmission jack.



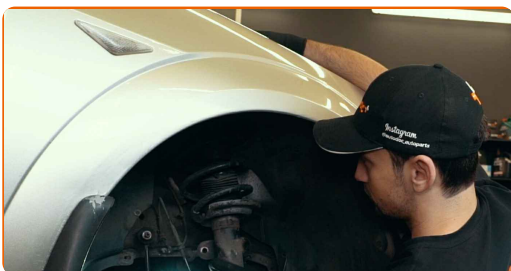
29 Release the lower fastener connecting the shock strut to the steering knuckle. Use a special drive socket to remove the shock absorber. Use a ratchet wrench.



30 Disconnect the steering knuckle from the shock absorber strut.



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



AUTODOC recommends:

- Important! Hold the suspension strut while unscrewing the fastening bolts. FORD MONDEO III (B5Y)

32

Remove the suspension strut.



33

Set the shock absorber strut on the spring compressor tool.



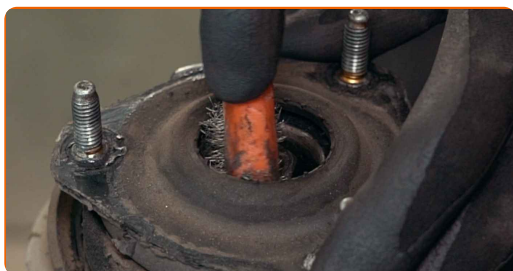
Replacement: suspension strut – FORD MONDEO III (B5Y). AUTODOC experts recommend:

- 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.

34 Compress the spring.



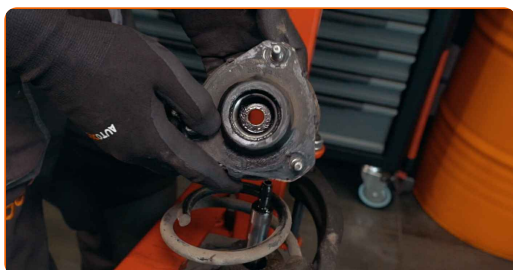
35 Treat the shock strut rod. Use a wire brush. Use WD-40 spray.



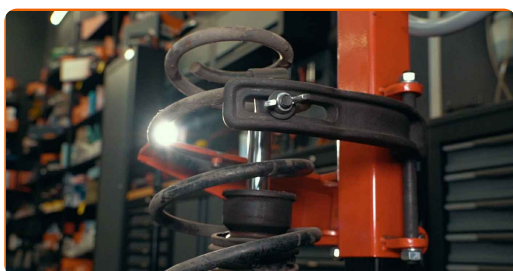
36 Unscrew the strut piston rod nut. Use a drive socket #19. Use HEX No.H6. Use a ratchet wrench.



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 MONDEO III (B5Y). Carefully inspect the mount, the boot, and the bump stop of the shock absorber. Replace if necessary.

41

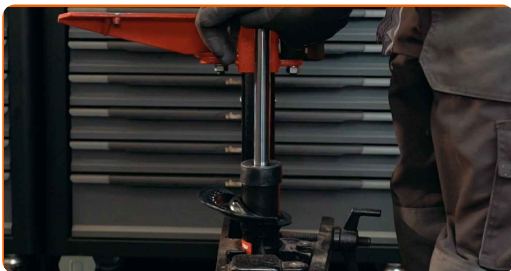
Remove the old shock absorber from the hydraulic coil spring compressor.



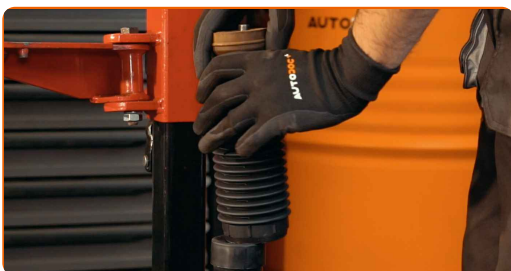
Replacement: suspension strut – FORD MONDEO III (B5Y). Tip from AUTODOC experts:

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

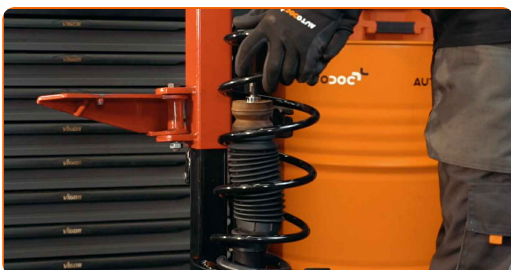
42 Install the new shock absorber on the hydraulic coil spring compressor.



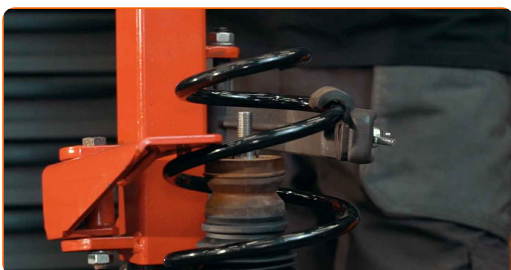
43 Install the dust sleeve and the bump stop on the new shock absorber.



44 Install the spring on the shock absorber.



45 Compress the spring.



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



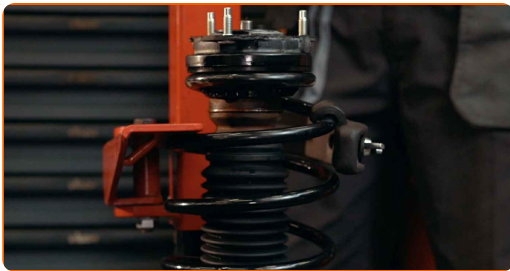
- 47 Tighten the shock strut piston rod nut. Use a drive socket #19. Use HEX No.H6. Use a torque wrench. Tighten it to 55 Nm torque.



Replacement: suspension strut – FORD MONDEO III (B5Y). AUTODOC experts recommend:

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

- 48 Decompress the spring.



- 49 Remove the assembled shock strut.



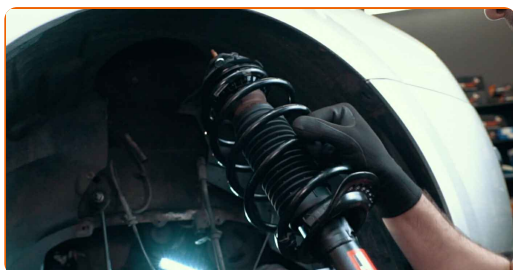
50 Clean the mounting seats of the shock strut. Use a wire brush. Use WD-40 spray.



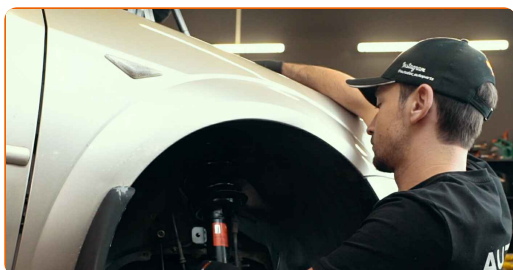
51 Treat the shock strut rod. Use copper grease.



52 Install the shock strut into the wheel arch.



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

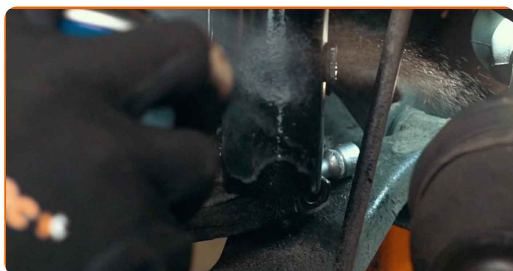


AUTODOC recommends:

- Important! Hold the suspension strut while screwing in the fastening bolts. FORD MONDEO III (B5Y)

54

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



55

Fix the shock absorber strut on the steering knuckle.

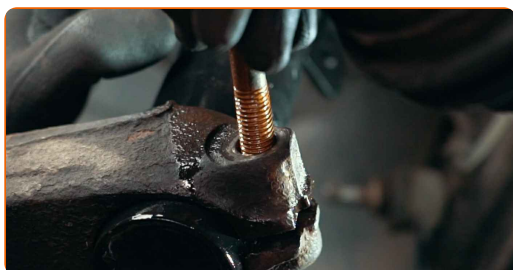


56

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

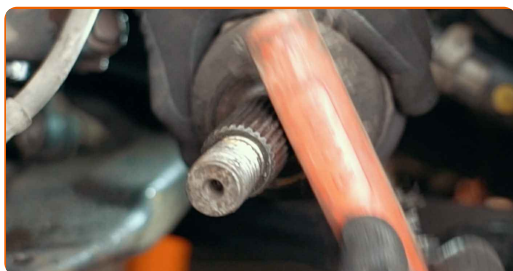
Remove the support from under the steering knuckle.

AUTODOC recommends:

- Replacement: suspension strut – FORD MONDEO III (B5Y). Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

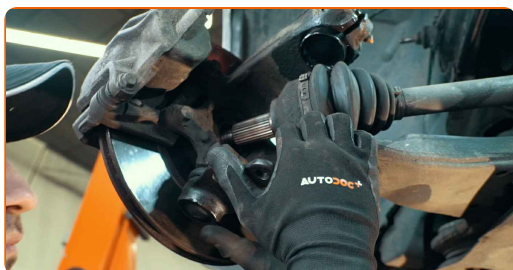
60

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



61

Install the drive shaft.



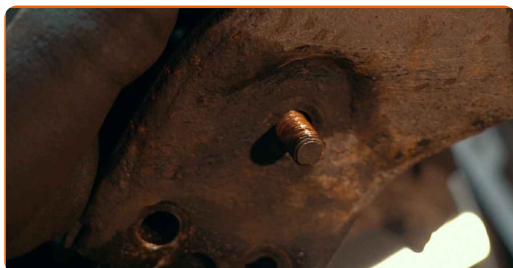
62

Attach the ball joint to the control arm.



63

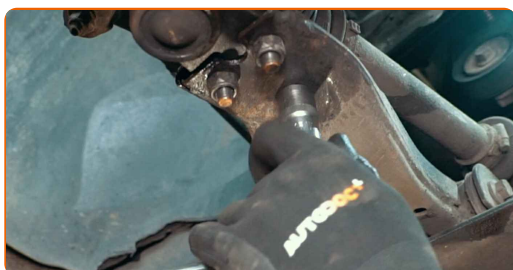
Install the fastening bolts.



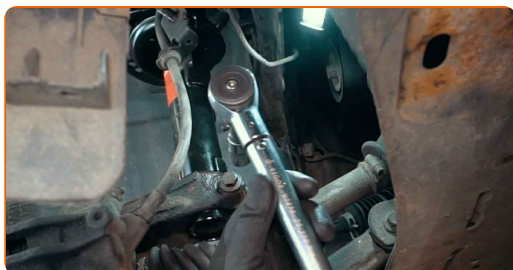
- 64** Screw in the fastener connecting the ball joint to the control arm. Use a combination spanner #17. Use a drive socket #17. Use a ratchet wrench.



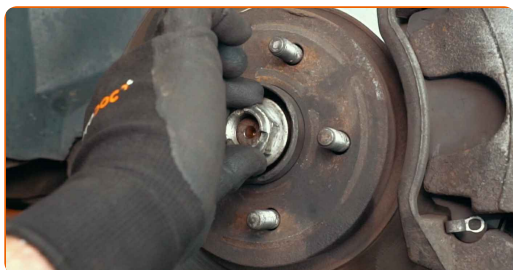
- 65** Tighten the fasteners connecting the ball joint to the control arm. Use a drive socket #17. Use a torque wrench. Tighten it to 48 Nm torque.



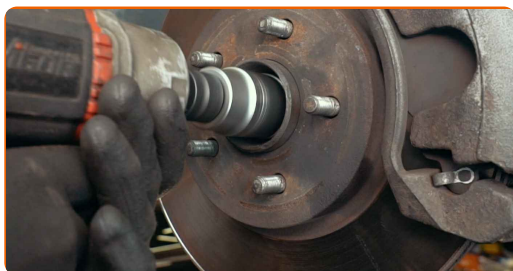
- 66** Tighten the lower fastening of the shock absorber. Use a drive socket #15. Use a torque wrench. Tighten it to 83 Nm torque.



- 67** Install the fastening nut.



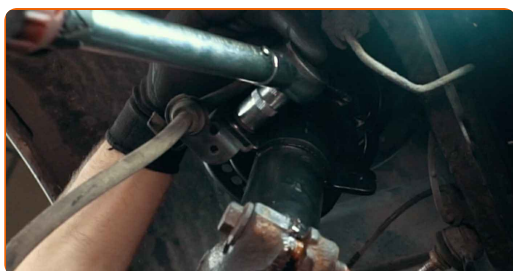
68 Screw the nut of the drive shaft. Use a drive socket #32. Use a ratchet wrench.



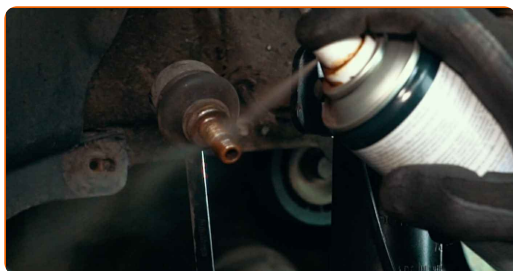
69 Clean the brake hose bracket fasteners. Use a wire brush. Use WD-40 spray.



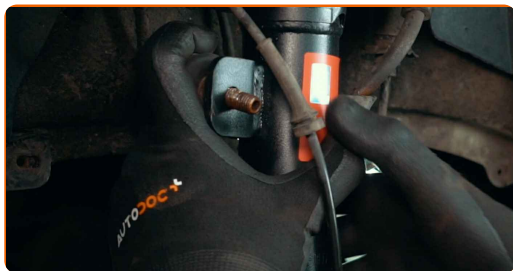
70 Tighten the brake hose fastening bracket to the shock strut. Use a combination spanner #15. Use a drive socket #15. Use a torque wrench. Tighten it to 32 Nm torque.



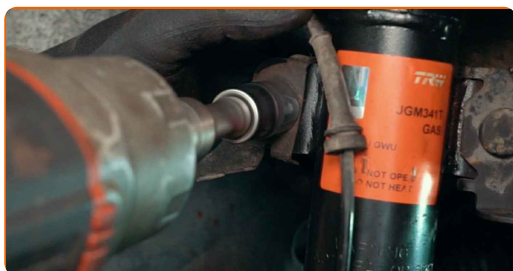
71 Clean the mounting seats of the stabiliser link. Use a wire brush. Use WD-40 spray.



72 Install the transverse stabilizer link.



73 Tighten the stabiliser link fastener. Use a drive socket #17. Use a ratchet wrench.



74 Tighten the fastener connecting the stabilizer link to the shock strut. Use a drive socket #17. Use a torque wrench. Tighten it to 48 Nm torque.

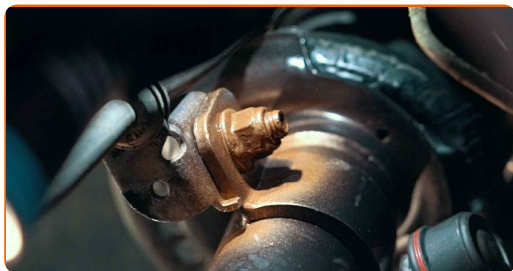


75 Connect the ABS sensor wiring.



76

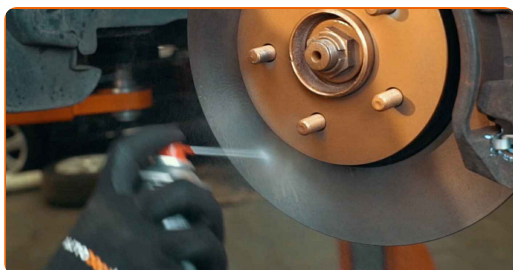
Treat the shock strut fasteners. Treat the steering knuckle fasteners. Use copper grease.

**77**

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

**78**

Clean the brake disk surface. Use all-purpose cleaning spray.

**79**

Install the wheel.

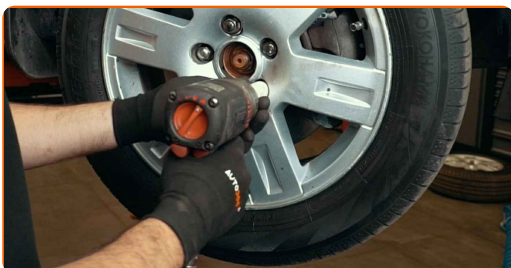


AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. FORD MONDEO III (B5Y)

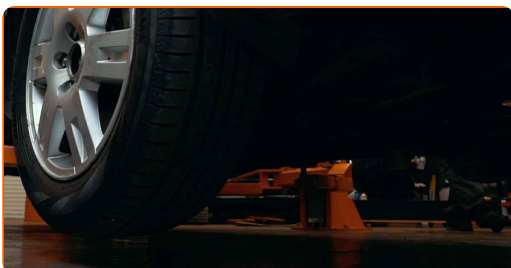
80

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 290 Nm torque.



83

Tighten the wheel bolts using a criss-cross pattern. Use wheel impact socket #19. Use a torque wrench. Tighten it to 90 Nm torque.



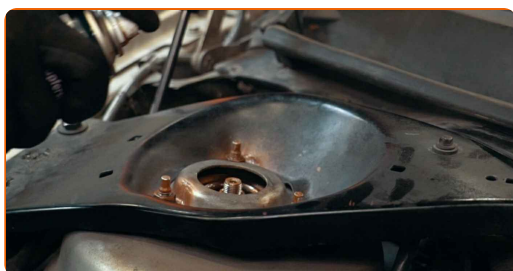
84 Remove the jacks and chocks.



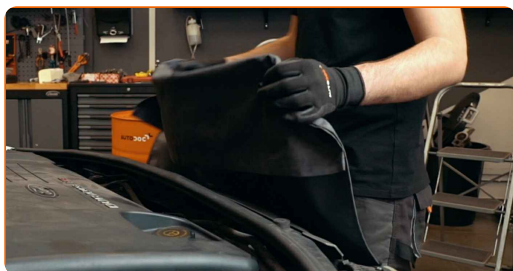
85 Tighten the upper fasteners of the shock strut (3 pieces). Use a drive socket #13. Use a torque wrench. Tighten it to 30 Nm torque.



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



87 Remove the fender protection cover.



88

Close the hood.



WELL DONE! 

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