



How to change front  
suspension strut on  
**Toyota Aygo ABI** –  
replacement guide

## VIDEO TUTORIAL



### **i Important!**

This replacement procedure can be used for:

TOYOTA Aygo (AB10) 1.4 HDi, TOYOTA Aygo (AB10) 1.0 GPL (KGB10\_), TOYOTA Aygo (AB40) 1.0 (KGB40\_), TOYOTA Aygo (AB40) 1.2 (PAB40\_), TOYOTA Aygo (AB40) 1.0 VVTi (KGB40)

The steps may slightly vary depending on the car design.

REPLACEMENT: SUSPENSION STRUT – TOYOTA AYGO  
AB1. LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #17
- Combination spanner #19
- XZN socket bit # 6
- HEX bit No.H7.
- Drive socket # 15
- Drive socket # 17
- 12-point socket # 30
- Wheel impact socket #19
- Ratchet wrench
- Torque wrench
- Pin punch
- Tap wrench
- Hammer
- Flat chisel
- Crow bar
- Round-nose pliers
- Ball joint puller
- Hydraulic strut spring compressor
- Hydraulic transmission jack
- Fender cover
- Wheel chock

**BUY TOOLS**

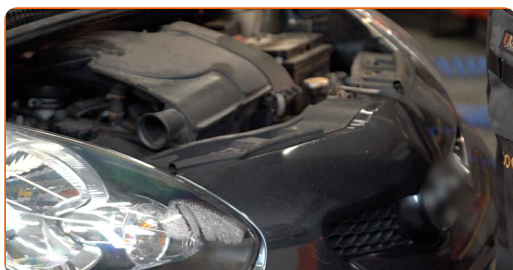
Replacement: suspension strut – Toyota Aygo AB1. AUTODOC recommends:

- 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 – TOYOTA AYGO AB1. TAKE THE FOLLOWING STEPS:

1

Open the bonnet.



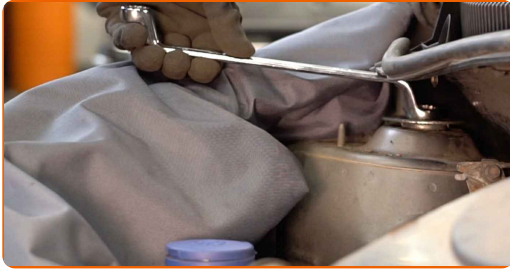
2

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



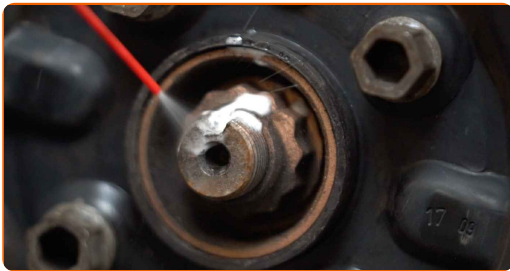
3

Loosen the upper fastener of the shock strut mount. Use a combination spanner #17. Use HEX No.H7.



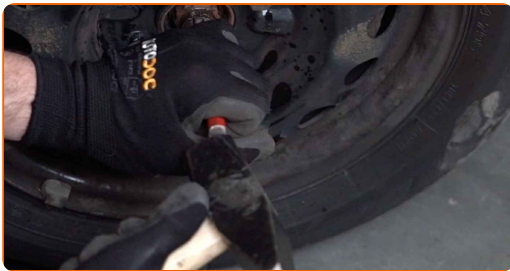
4

Clean the wheel hub fastener. Use WD-40 spray.



5

Unstake the fastener of the driveshaft. Use a flat metal-working chisel. Use a hammer.



6

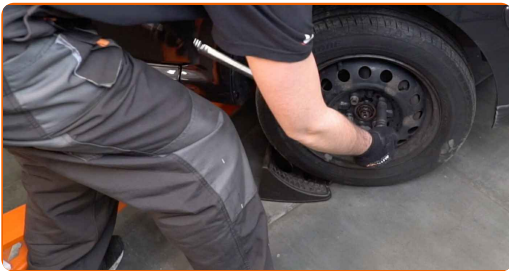
Loosen the fastener of the driveshaft. Use 12-point socket No.30. Use a tap wrench.



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:**

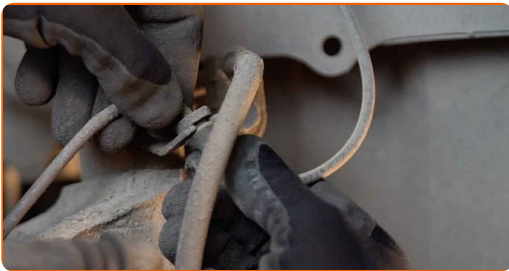
- Important! Hold the wheel while unscrewing the fastening bolts. Toyota Aygo AB1



**11** Remove the wheel.



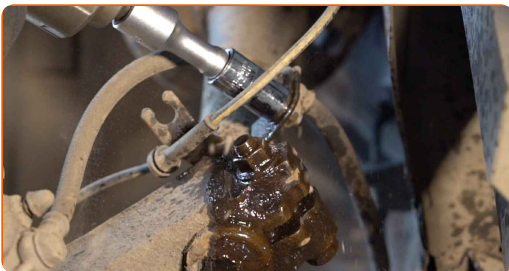
**12** Disconnect the fastener of the ABS sensor cable from the shock absorber strut.



**13** Clean the fasteners of the ABS sensor and of the brake hose which connect them to the shock strut. Clean the fasteners connecting the shock strut to the steering knuckle. Use a wire brush. Use WD-40 spray.



**14** Unscrew the brake hose fastening bracket from the shock strut. Use a drive socket #15.



- 15** Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use a combination spanner #17. Use a drive socket #17. Use a tap wrench.



- 16** Remove the fastening bolt.



- 17** Clean all joints of the arm. Use a wire brush. Use WD-40 spray.



- 18** Remove the cotter pin. Use round-nose pliers.





19

Unscrew the ball joint fastening to the steering knuckle. Use a combination spanner #19.



20

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



21

Disconnect the lower arm from the steering knuckle. Use a ball joint puller. Use a crowbar.

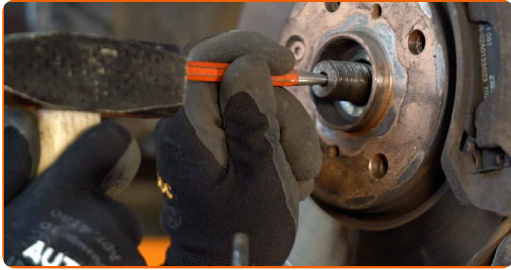


22

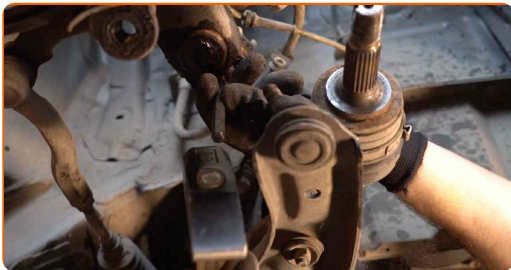
Unscrew the fastener connecting the drive shaft to the wheel hub. Use 12-point socket No.30.



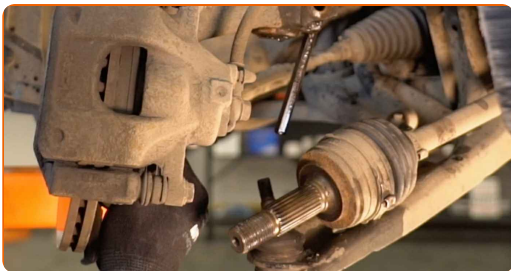
23 Remove the drive shaft. Use a pin punch. Use a hammer.



24 Release the lower fastener connecting the shock strut to the steering knuckle. Use a flat metal-working chisel. Use a hammer.



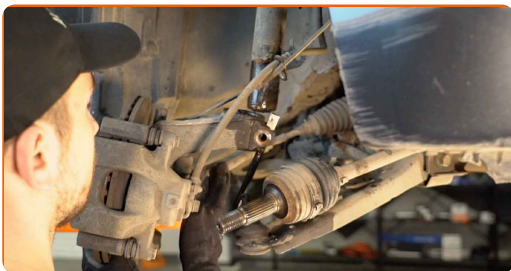
25 Remove the support from under the steering knuckle.



Replacement: suspension strut – Toyota Aygo AB1. AUTODOC experts recommend:

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

26 Disconnect the steering knuckle from the shock absorber strut. Use a flat metal-working chisel. Use a hammer.



**AUTODOC recommends:**

- Make sure that the steering knuckle is supported.

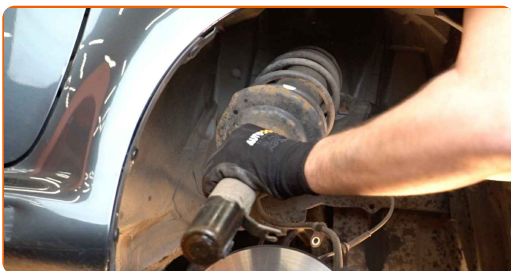
27 Unscrew the top fastening of the shock strut mount.



**AUTODOC recommends:**

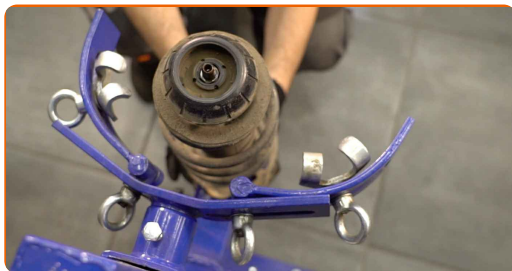
- Toyota Aygo AB1 – To avoid injury, hold the suspension strut while unscrewing the fastening bolts.

28 Remove the suspension strut.



29

Set the shock absorber strut on the spring compressor tool.



### Replacement: suspension strut – Toyota Aygo AB1. 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.

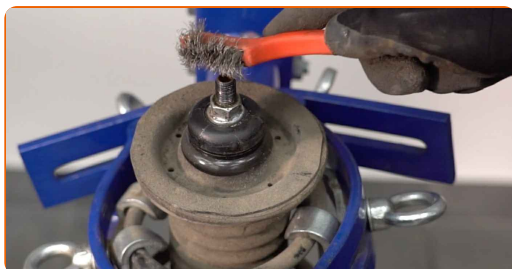
30

Compress the spring.



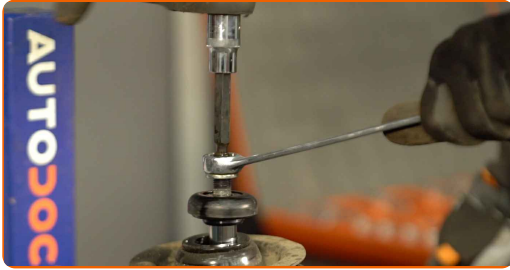
31

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



32

Remove the strut piston rod nut. Use a combination spanner #17. Use XZN #6. Use a ratchet wrench.



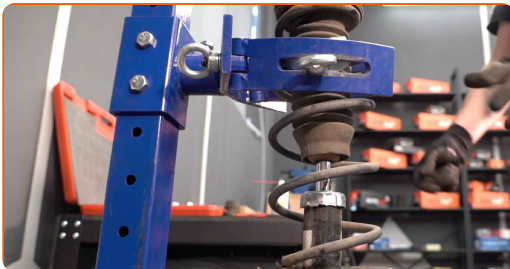
33

Remove the top strut mount.



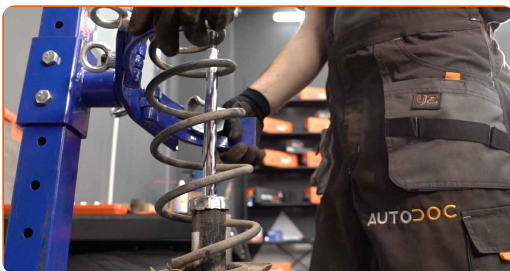
34

Release the coil spring.



35

Remove the shock absorber dust cap and the bump stop.

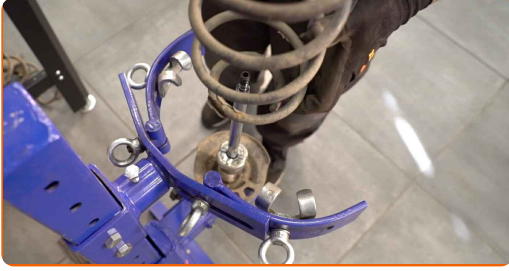


### AUTODOC recommends:

- Replacement: suspension strut – Toyota Aygo AB1. Carefully inspect the mount, the boot, and the bump stop of the shock absorber. Replace if necessary.



36 Remove the spring.



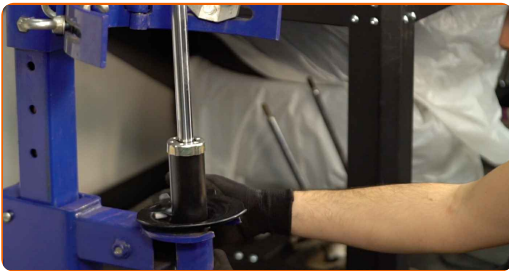
37 Remove the old shock absorber from the hydraulic coil spring compressor.



Replacement: suspension strut – Toyota Aygo AB1. Tip from AUTODOC:

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

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



39 Install the spring on the shock absorber.





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



41 Compress the spring.



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



43 Tighten the shock strut piston rod nut. Use a combination spanner #17. Use XZN #6. Use a torque wrench. Tighten it to 33 Nm torque.



Replacement: suspension strut – Toyota Aygo AB1. Professionals recommend:

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

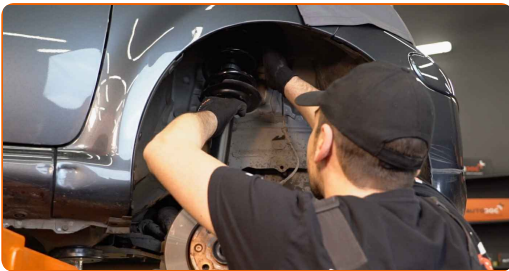
44 Decompress the spring.



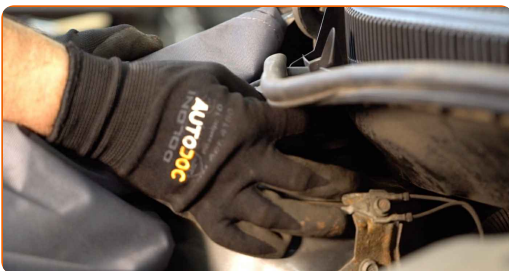
45 Remove the assembled shock strut.



46 Install the shock strut into the wheel arch.



47 Screw the top fastening of the shock strut mount. Do not tighten it.

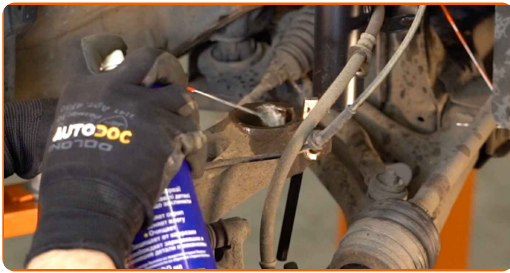


Replacement: suspension strut – Toyota Aygo AB1. Tip from AUTODOC experts:

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

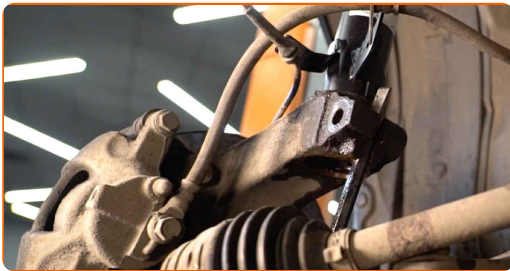
48

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



49

Fix the shock absorber strut on the steering knuckle.



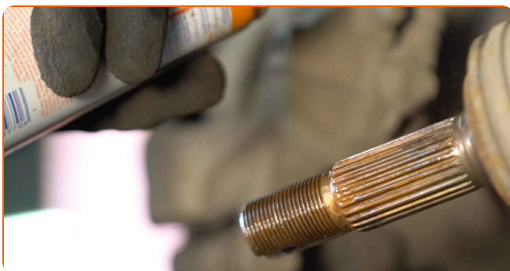
50

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

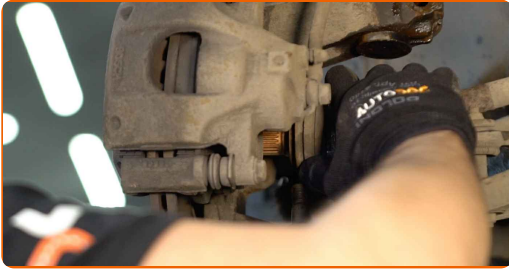


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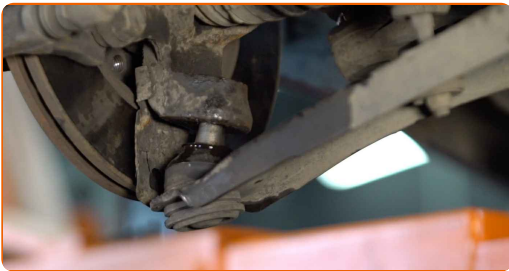
Treat the splines of the driveshaft CV joint. Use copper grease.



**52** Mount the drive shaft into the wheel hub.



**53** Connect the lower arm to the steering knuckle. Use a crowbar.



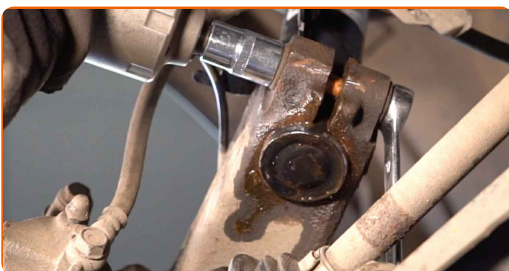
**54** Screw the fasteners of the ball joint. Use a combination spanner #19.



**55** Install the fastening bolt.



**56** Screw in the fastener that connects the shock strut to the steering knuckle. Use a drive socket #17. Use a combination spanner #17.



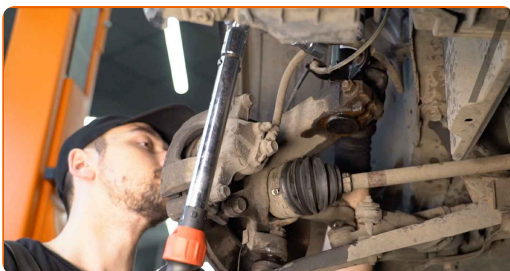
**57** Tighten the brake hose fastening bracket to the shock strut. Use a drive socket #15.



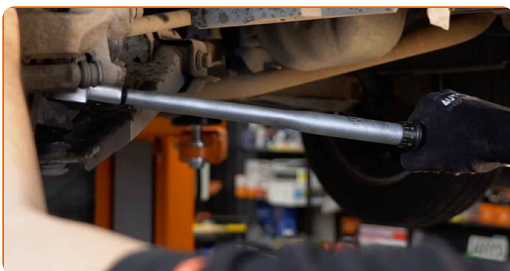
**58** Connect the fastener of the ABS sensor cable to the shock absorber strut.



**59** Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a combination spanner #17. Use a drive socket #17. Use a torque wrench. Tighten it to 52 Nm torque.



**60** Tighten the ball joint fastener. Use a combination spanner #19. Use a torque wrench. Tighten it to 98 nm torque.



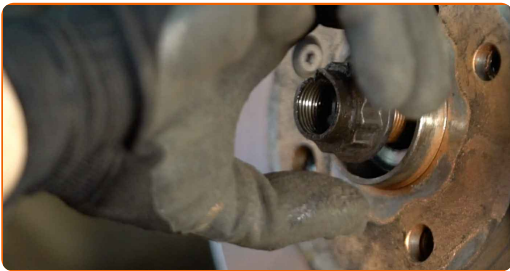
**61** Install the cotter pin.



62 Treat the shock strut fasteners. Use copper grease.



63 Screw the nut of the drive shaft. Use 12-point socket No.30.



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



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



**AUTODOC recommends:**

- Replacement: suspension strut – Toyota Aygo AB1. After applying the spray, wait a few minutes.



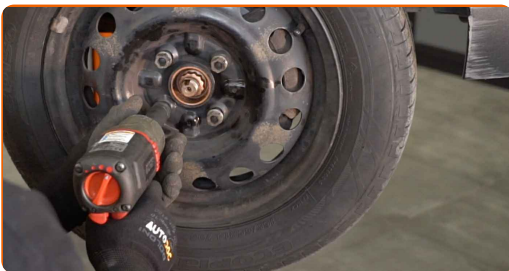
66 Install the wheel.



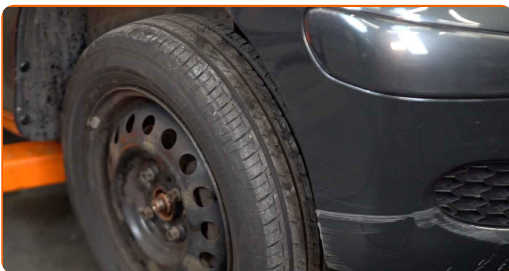
Replacement: suspension strut – Toyota Aygo AB1. AUTODOC recommends:

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

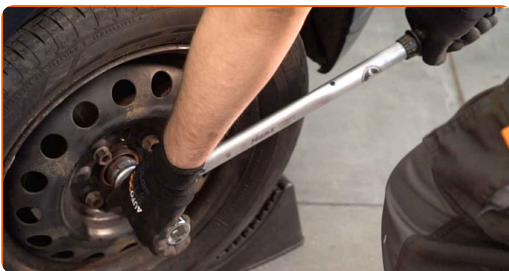
67 Screw in the wheel bolts. Use wheel impact socket #19.



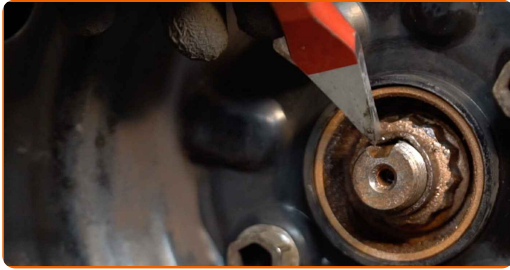
68 Lower the car.



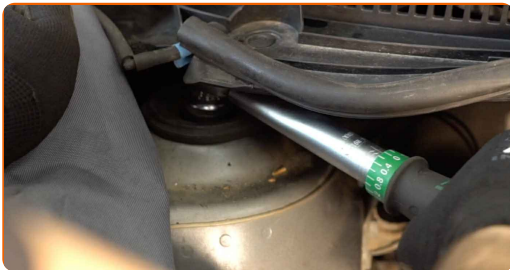
69 Tighten the drive shaft nut. Use 12-point socket No.30. Use a torque wrench. Tighten it to 216 nm torque.



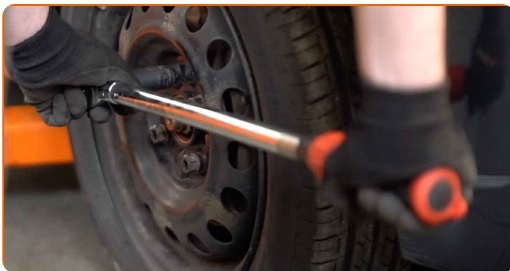
**70** Restake the fastener of the driveshaft. Use a flat metal-working chisel. Use a hammer.



**71** Tighten the upper fastener of the shock absorber strut mount. Use a combination spanner #17. Use HEX No.H7. Use a drive socket #17. Use a torque wrench. Tighten it to 50 nm torque.

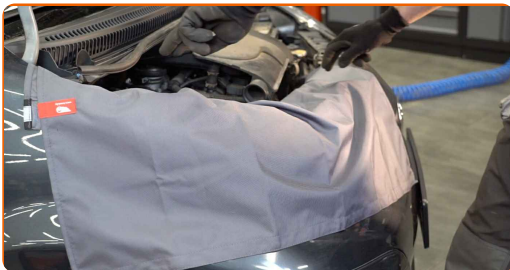


**72** Tighten the wheel bolts using a criss-cross pattern. Use a torque wrench. Tighten it to 103 Nm torque.



**73** Remove the jacks and chocks.

**74** Remove the fender protection cover.



75

Close the hood.



**WELL DONE!** 

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