



How to change rear  
wheel bearing on  
**TOYOTA AVENSIS**  
**Saloon (ZRT27, ADT27) –**  
replacement guide

### SIMILAR VIDEO TUTORIAL



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

#### **ⓘ Important!**

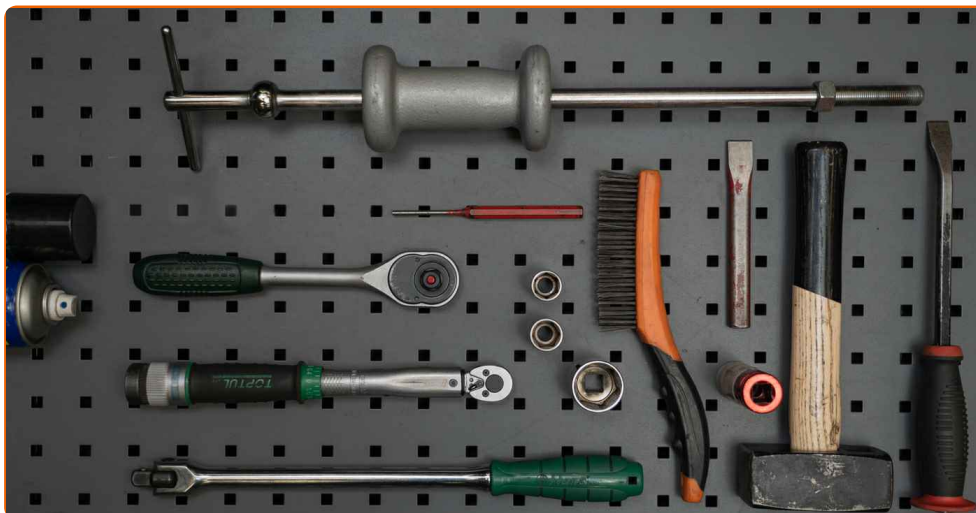
This replacement procedure can be used for:

TOYOTA AVENSIS Saloon (ZRT27, ADT27) 2.0 D-4D (ADT270\_), TOYOTA AVENSIS Saloon (ZRT27, ADT27) 1.6 VVT-i (ZRT270\_), TOYOTA AVENSIS Saloon (ZRT27, ADT27) 1.8 VVT-i (ZRT271\_), TOYOTA AVENSIS Saloon (ZRT27, ADT27) 2.0 VVT-i (ZRT272\_), TOYOTA AVENSIS Saloon (ZRT27, ADT27) 2.2 D-4D (ADT271\_), TOYOTA AVENSIS Saloon (ZRT27, ADT27) 1.6 D4-D (WWT270\_), TOYOTA AVENSIS Saloon (ZRT27, ADT27) 2.0 D-4D (WWT271\_)

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: TOYOTA RAV 4 II (CLA2\_, XA2\_, ZCA2\_, ACA2\_) 2.0 4WD (ACA21, ACA20)

**REPLACEMENT: WHEEL BEARING – TOYOTA AVENSIS SALOON (ZRT27, ADT27). TOOLS YOU MIGHT NEED:**



- Wire brush
- WD-40 spray
- All-purpose cleaning spray
- Brake cleaner
- Ceramic grease
- Copper grease
- Torque wrench
- Drive socket # 14
- Drive socket # 30
- Wheel impact socket #19
- Ratchet wrench
- Flat screwdriver
- Long nose pliers
- Crow bar
- Hydraulic transmission jack
- Wheel chock

**Buy tools**

**AUTODOC recommends:**

- Do not re-use the bearing assembly of your TOYOTA AVENSIS Saloon (ZRT27, ADT27) car.
- The wheel hub bearing replacement procedure is identical for both wheels on the same axle.
- Please note: all work on the car – TOYOTA AVENSIS Saloon (ZRT27, ADT27) – should be done with the engine switched off.

**CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:**

**1** Secure the wheels with chocks.

**2** Loosen the wheel mounting bolts. Use wheel impact socket #19.

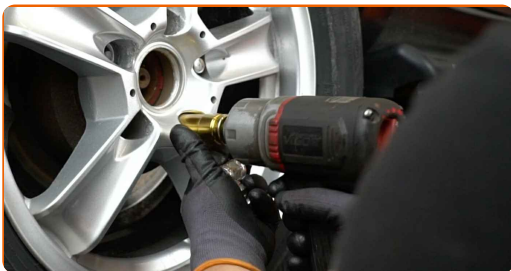


**3** Raise the car.

**Replacement: wheel bearing – TOYOTA AVENSIS Saloon (ZRT27, ADT27).  
AUTODOC experts recommend:**

- 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.

**4** Unscrew the wheel bolts.



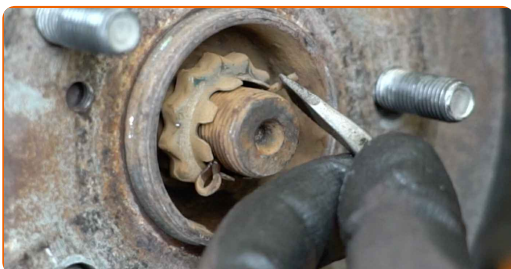
**AUTODOC recommends:**

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.  
TOYOTA AVENSIS Saloon (ZRT27, ADT27)

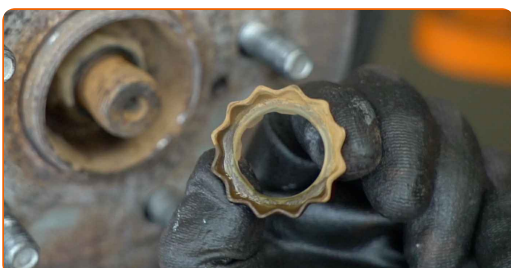
**5** Remove the wheel.



**6** Remove the cotter pin. Use a crowbar.



**7** Remove the wheel hub bearing retaining ring. Use a crowbar.



**8** Install the wheel.

**AUTODOC recommends:**

- Important! Hold the wheel while unscrewing the fastening bolts. TOYOTA AVENSIS Saloon (ZRT27, ADT27)

**9** Screw in the wheel bolts. Use wheel impact socket #19.

**10** Lower the car.

**11** Loosen the fastener of the driveshaft. Use a drive socket #30.

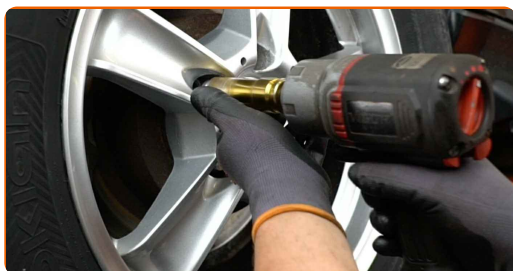


**12** Raise the car.

**Replacement: wheel bearing – TOYOTA AVENSIS Saloon (ZRT27, ADT27).  
AUTODOC recommends:**

- 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.



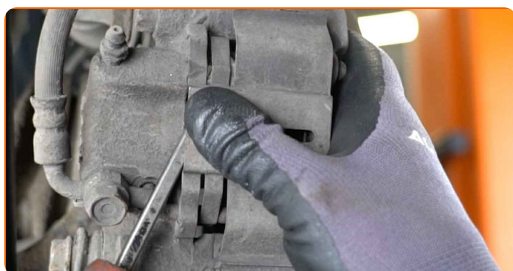
Replacement: wheel bearing – TOYOTA AVENSIS Saloon (ZRT27, ADT27).  
AUTODOC experts recommend:

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

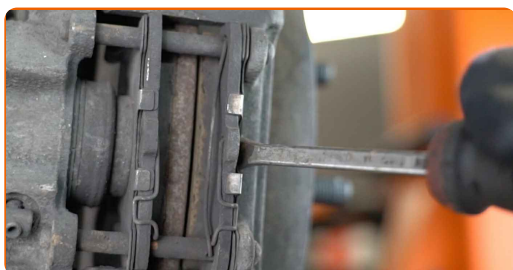
**14** Remove the wheel.



**15** Detach the brake caliper retaining spring. Use a crowbar.



**16** Spread the brake pads. Use a crowbar.



**17**

Clean the brake caliper fasteners. Use a wire brush. Use WD-40 spray.



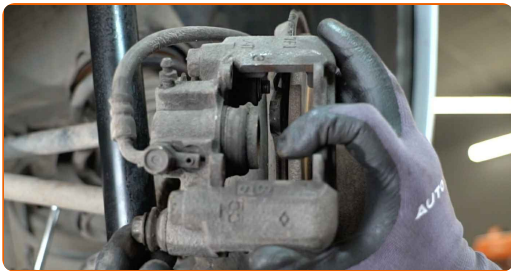
**18**

Unscrew the brake caliper fasteners. Use a drive socket #14. Use a ratchet wrench.



**19**

Remove the brake caliper.

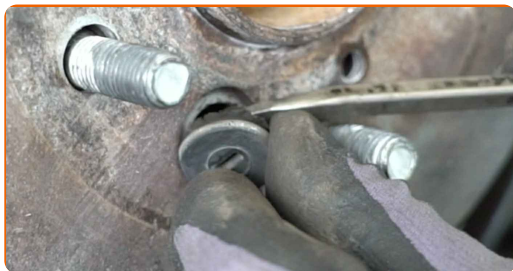


**AUTODOC recommends:**

- Tie the caliper to the suspension or to the body with a wire without disconnecting from the brake hose to prevent depressurization of the brake system.
- Make sure that the brake caliper is not hanging on the brake hose.
- Don't press the brake pedal after the brake caliper has been removed. As a result, the piston can fall out from the brake cylinder, and brake fluid leakage and depressurization of the system may occur.



**20** Remove the rubber plug. Use a crowbar.



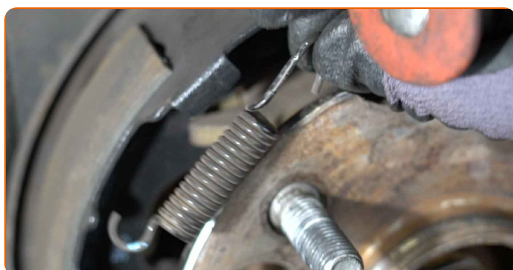
**21** Release the parking brake adjuster. Use a flat screwdriver.



**22** Remove the brake disc.



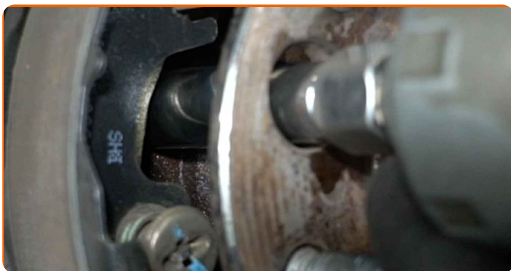
**23** Remove the left brake shoe spring of the parking brake. Use long nose pliers. Use a crowbar.



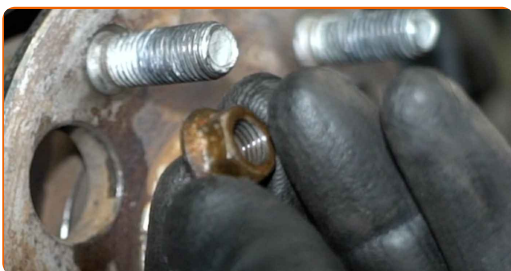
**24** Treat the wheel hub bearing fasteners. Use WD-40 spray.



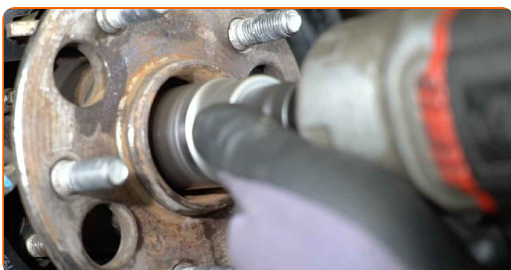
**25** Unscrew the wheel hub bearing fasteners. Use a drive socket #14. Use a ratchet wrench.



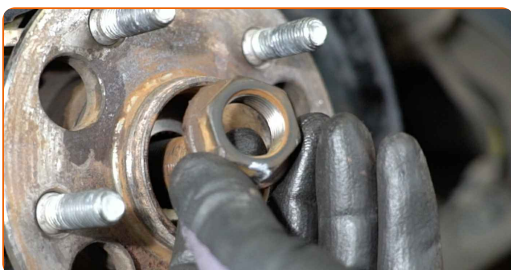
**26** Remove the fastening nuts.



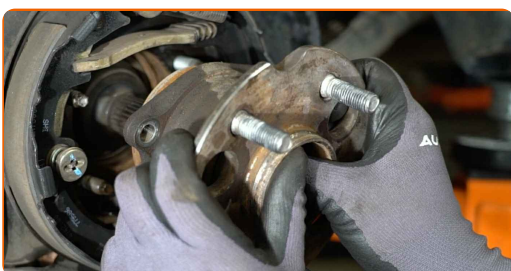
**27** Unscrew the fastener connecting the drive shaft to the wheel hub. Use a drive socket #30. Use a ratchet wrench.



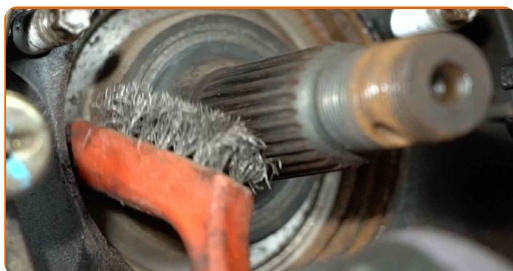
**28** Remove the fastening nut.



**29** Remove the wheel hub bearing.

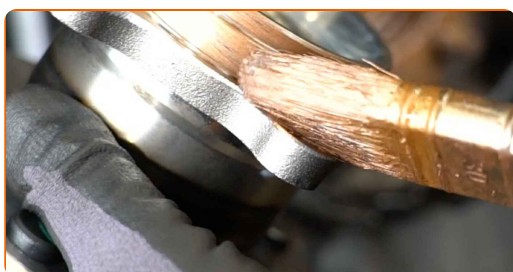


**30** Clean the hub bearing mounting seat. Use a wire brush. Use all-purpose cleaning spray.



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

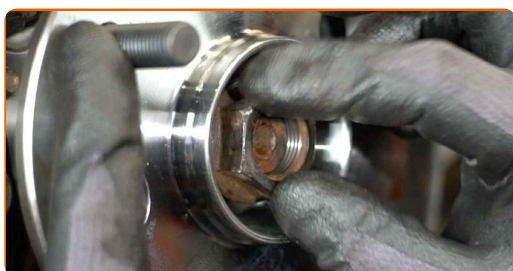
**32** Treat the wheel bearing mounting seat. Use copper grease.



**33** Install a new wheel hub bearing.



**34** Install the fastening nut.



**35** Install the fastening nuts.

**36** Support the rear knuckle. Use a hydraulic transmission jack.

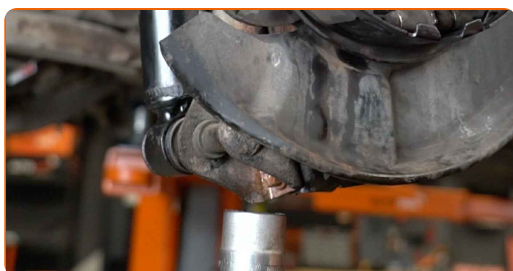
- 37** Tighten the wheel hub bearing fasteners. Use a drive socket #14. Use a torque wrench. Tighten it to 50 Nm torque.



- 38** Screw in the fastener of the CV axle. Use a drive socket #30. Use a ratchet wrench.



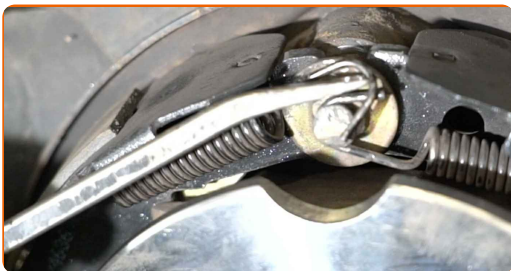
- 39** Remove the support from under the rear knuckle.



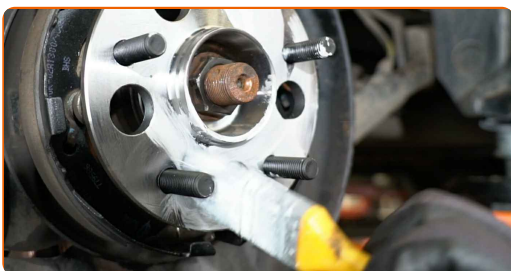
**AUTODOC recommends:**

- Replacement: wheel bearing – TOYOTA AVENSIS Saloon (ZRT27, ADT27). Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

40 Install the left brake shoe spring of the parking brake. Use a crowbar.



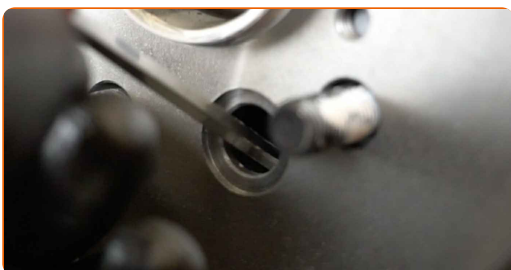
41 Treat the hub where it contacts the brake disk. Use ceramic grease.



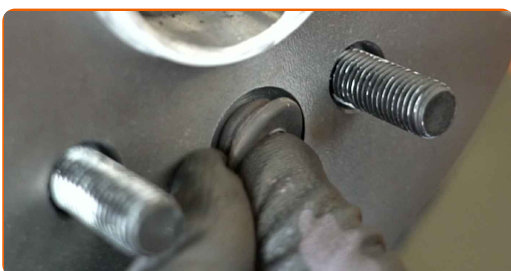
42 Install the brake disc.



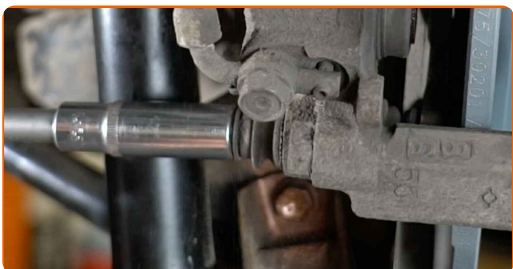
43 Set the parking brake adjuster in the correct position. Use a flat screwdriver.



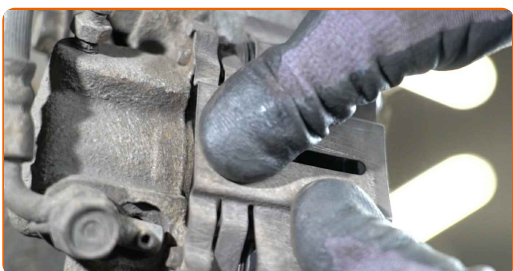
44 Install the rubber plug. Use a crowbar.



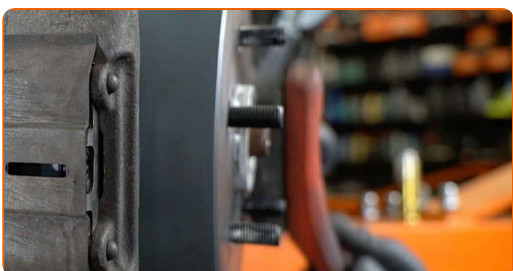
- 45** Install the brake caliper and fix it. Tighten the brake caliper fasteners. Use a drive socket #14. Use a torque wrench. Tighten it to 44 Nm torque.



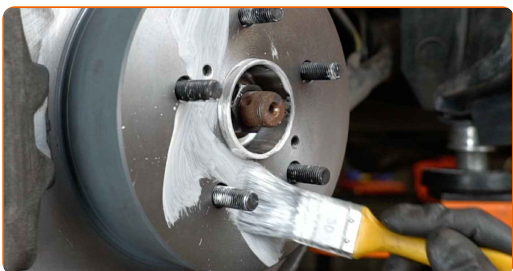
- 46** Install the brake caliper retaining spring.



- 47** Clean the wheel rim mounting seat. Use a wire brush.

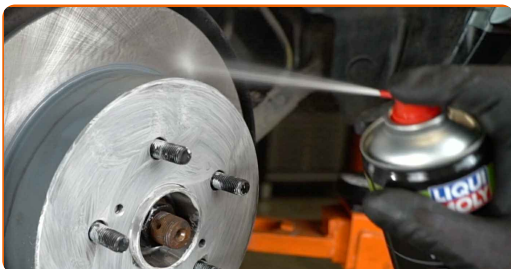


- 48** Treat the surface where the brake disc contacts the wheel rim. Use ceramic grease.



49

Clean the brake disk surface. Use a brake cleaner.



**AUTODOC recommends:**

- After applying the spray, wait a few minutes.

50

Install the wheel.

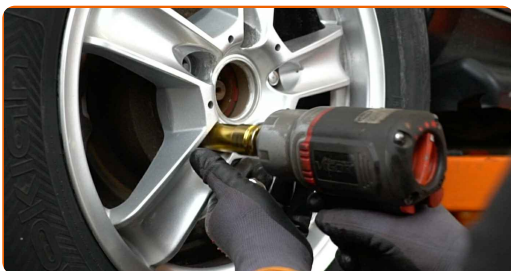


**AUTODOC recommends:**

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. TOYOTA AVENSIS Saloon (ZRT27, ADT27)

51

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



**52**

Lower the car.

**53**

Tighten the drive shaft nut. Use a drive socket #30. Use a torque wrench. Tighten it to 216 Nm torque.



**54**

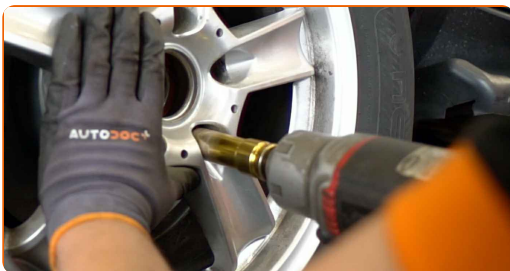
Raise the car.

**AUTODOC recommends:**

- 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.

**55**

Unscrew the wheel bolts.

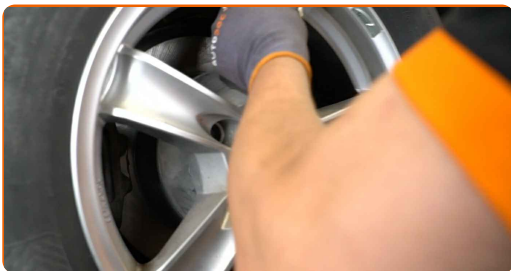


**AUTODOC recommends:**

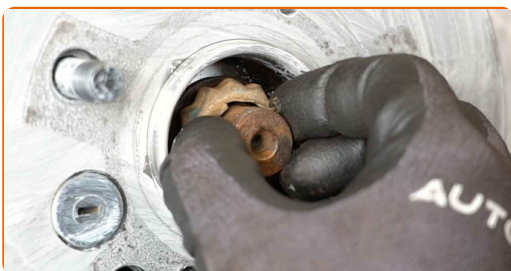
- Important! Hold the wheel while screwing in the fastening bolts. TOYOTA AVENSIS Saloon (ZRT27, ADT27)



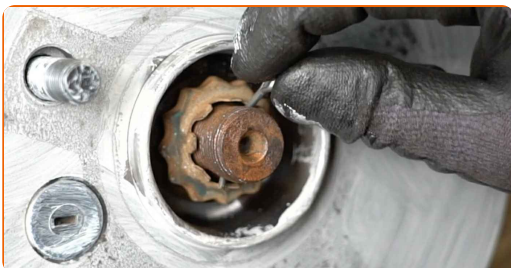
**56** Remove the wheel.



**57** Install the wheel hub bearing retaining ring.

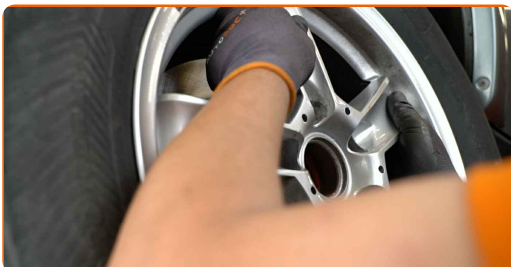


**58** Install the cotter pin. Use a crowbar.



**59** Treat the CV axle fastener. Use copper grease.

**60** Install the wheel.

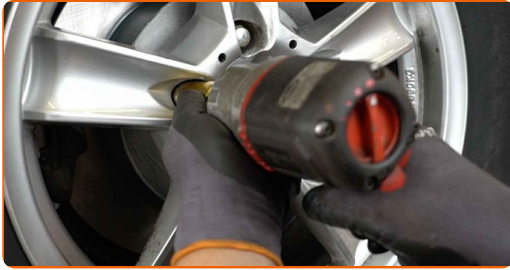


**AUTODOC recommends:**

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

**61**

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

**62**

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 103 Nm torque.

**63**

Remove the jacks and chocks.



Replacement: wheel bearing – TOYOTA AVENSIS Saloon (ZRT27, ADT27).  
Professionals recommend:

- Without starting the engine, press the brake pedal several times until you feel significant resistance.
- Check the brake fluid level in the expansion tank and refill if necessary.

**WELL DONE!** 

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