



How to change front  
wheel bearing on  
**TOYOTA Avensis Verso**  
**(\_M2\_)** – replacement  
guide

## SIMILAR VIDEO TUTORIAL



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

### Important!

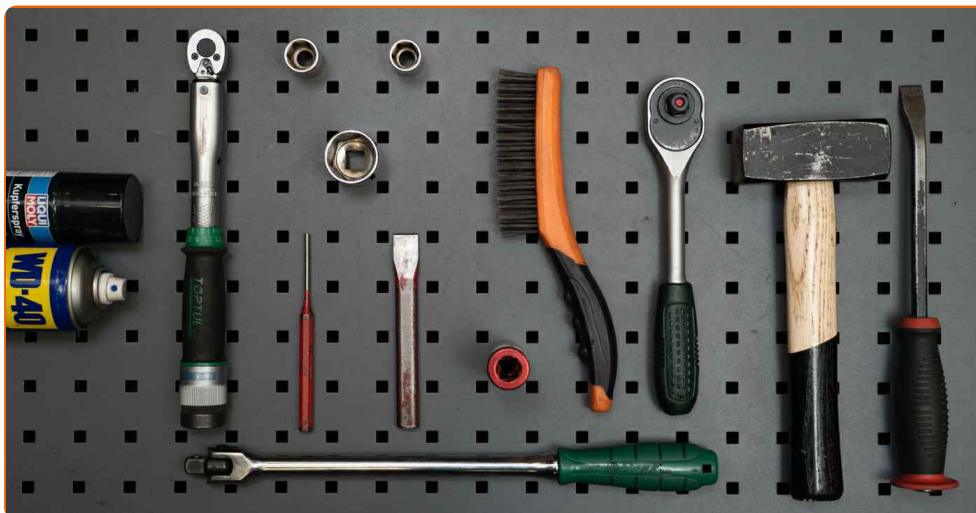
This replacement procedure can be used for:

TOYOTA Avensis Verso (\_M2\_) 2.0 (ACM20\_), TOYOTA Avensis Verso (\_M2\_) 2.0 D (CLM20\_), TOYOTA Avensis Verso (\_M2\_) 2.4 (ACM21)

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 AVENISIS  
VERSO (\_M2\_). LIST OF THE TOOLS YOU'LL NEED:**



- Wire brush
- WD-40 spray
- All-purpose cleaning spray
- Brake cleaner
- Ceramic grease
- Multipurpose grease
- Copper grease
- Torque wrench
- Combination spanner #19
- Drive socket # 10
- Drive socket # 17
- Drive socket # 19
- 12-point socket # 30
- Wheel impact socket #19
- Bush and bearing driver set
- Bearing separator
- Ball joint puller
- Ratchet wrench
- Circlip pliers
- Water pump pliers
- Flat chisel
- Hammer
- Crow bar
- Wheel chock

**Buy tools**

**AUTODOC recommends:**

- Do not re-use the bearing assembly of your TOYOTA Avensis Verso (\_M2\_) 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 Verso (\_M2\_) – should be done with the engine switched off.

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

**1** Open the bonnet. Unscrew the brake fluid reservoir cap.

**2** Secure the wheels with chocks.

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

**4** Loosen the fastener of the driveshaft. Use 12-point socket No.30.



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



**6** Raise the car.

Replacement: wheel bearing – TOYOTA Avensis Verso (\_M2\_). 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.

**7** Unscrew the wheel bolts.



AUTODOC recommends:

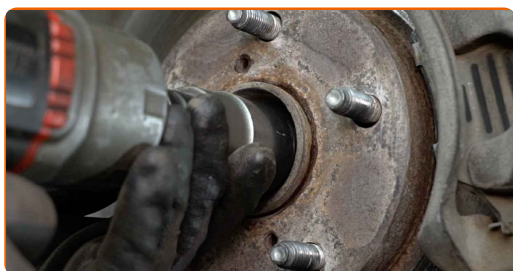
- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts. TOYOTA Avensis Verso (\_M2\_)

**8** Remove the wheel.



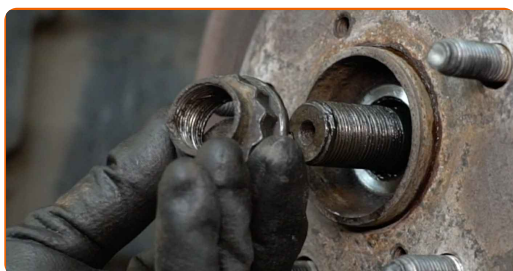
**9**

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



**10**

Remove the fastening nut.



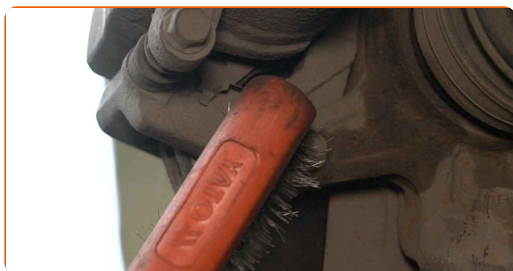
**11**

Spread the brake pads. Use a crowbar.



**12**

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



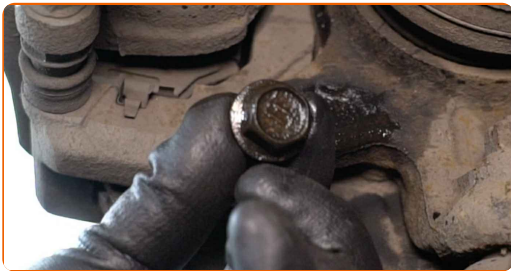
**13**

Unscrew the brake caliper bracket fasteners. Use a drive socket #17. Use a ratchet wrench.



**14**

Remove the fastening bolts.



**15**

Remove the brake caliper together with its bracket.



**Replacement: wheel bearing – TOYOTA Avensis Verso (\_M2\_). AUTODOC experts recommend:**

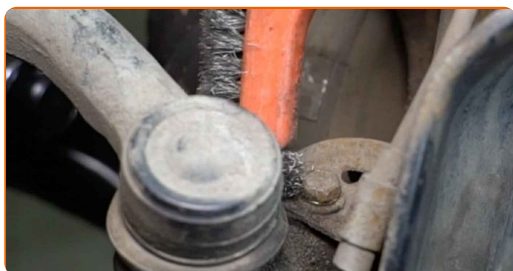
- Tie the caliper to the suspension or to the body with a wire without disconnecting from the brake hose to prevent depressurization of the brake system.
- Make sure that the brake caliper is not hanging on the brake hose.
- Don't press the brake pedal after the brake caliper has been removed. As a result,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



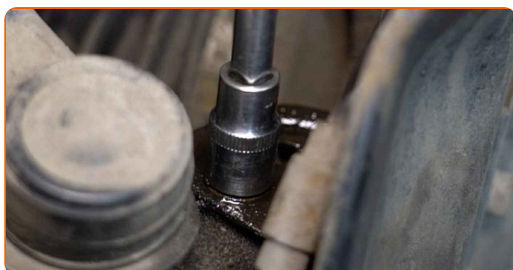
**16** Remove the brake disc.



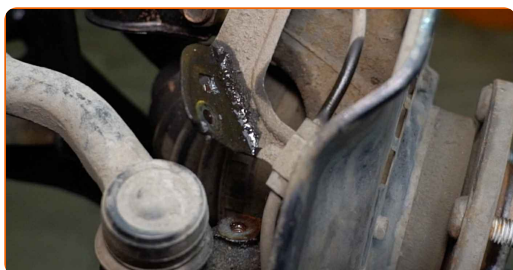
**17** Clean the ABS wiring harness bracket. Use a wire brush. Use WD-40 spray.



**18** Unscrew the fastener of the ABS sensor wiring harness. Use a drive socket #10. Use a ratchet wrench.



**19** Disconnect the ABS sensor wiring.





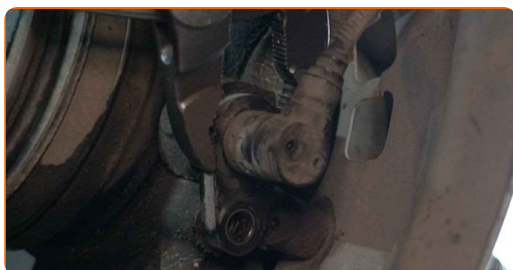
**20** Clean the ABS sensor fastener. Use a wire brush. Use WD-40 spray.



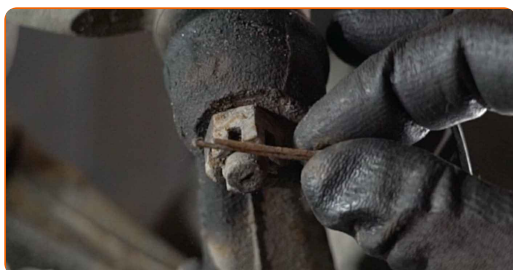
**21** Unscrew the ABS sensor fastener. Use a drive socket #10. Use a ratchet wrench.



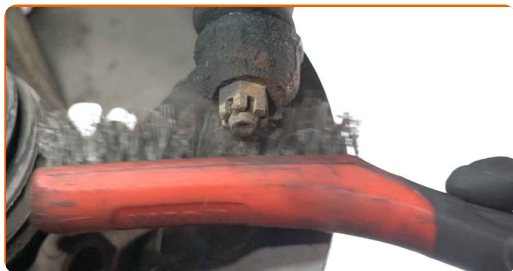
**22** Disconnect the ABS sensor. Use water pump pliers.



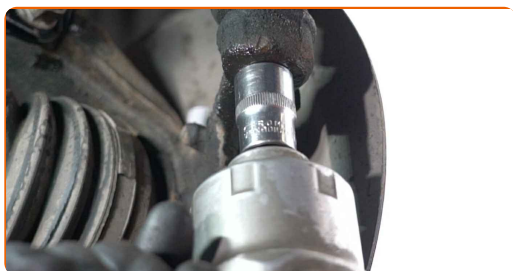
**23** Remove the cotter pin that secures the fastener connecting the tie rod end to the steering knuckle. Use a crowbar.



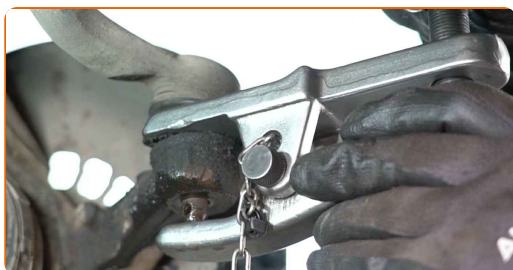
**24** Clean the fastener connecting the tie rod end to the steering knuckle. Use a wire brush. Use WD-40 spray.



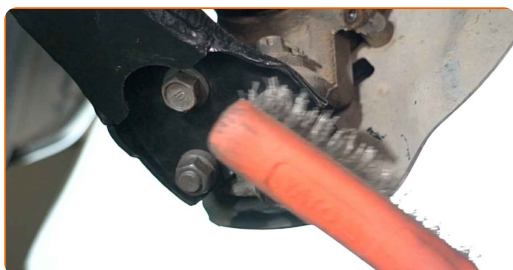
**25** Unscrew the end fastening nut to the steering knuckle. Use a drive socket #17. Use a ratchet wrench.



**26** Disconnect the tie rod end from the steering knuckle. Use a ball joint puller.



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



**28** Unscrew the fasteners connecting the ball joint to the control arm. Use a drive socket #17. Use a ratchet wrench.



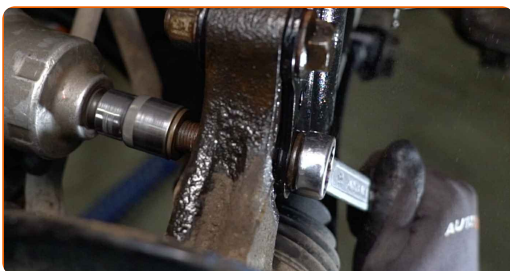
**29** Disconnect the ball joint from the control arm. Use a crowbar.



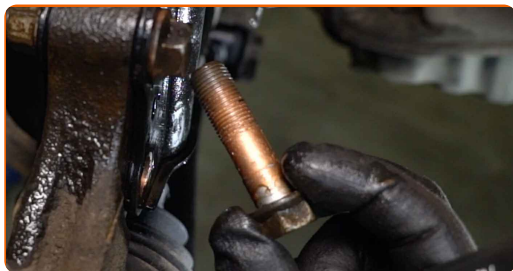
**30** Clean the fasteners connecting the shock strut to the steering knuckle. Use a wire brush. Use WD-40 spray.



**31** Unscrew the fasteners connecting the suspension strut to the steering knuckle. Use a combination spanner #19. Use a drive socket #19. Use a ratchet wrench.



**32** Remove the fastening bolts.



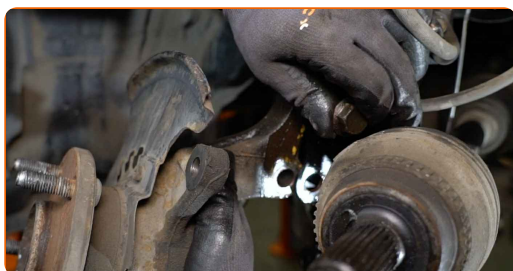
**33** Detach the driveshaft from the steering knuckle.



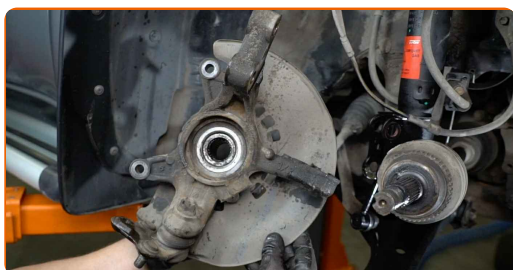
Replacement: wheel bearing – TOYOTA Avensis Verso (\_M2\_). Tip from AUTODOC experts:

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

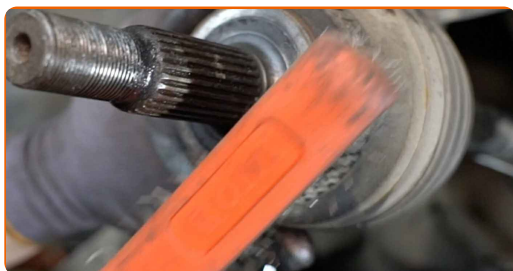
**34** Disconnect the steering knuckle from the shock absorber strut.



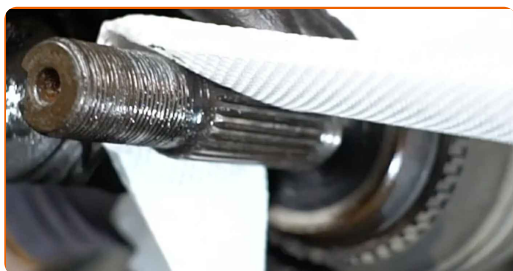
**35** Remove the steering knuckle together with the wheel hub.



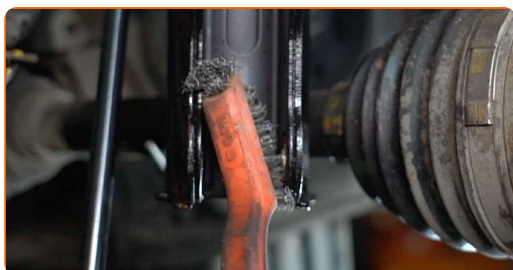
**36** Clean the splines of the drive shaft CV joint. Use a wire brush. Use WD-40 spray.



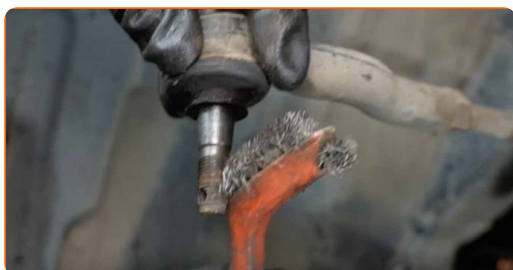
**37** Treat the splines of the driveshaft CV joint. Use copper grease.



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

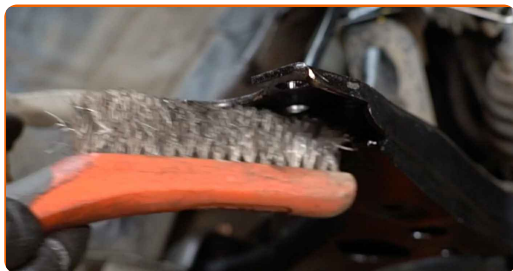


**39** Clean the tie rod end fastener. Use a wire brush. Use WD-40 spray.

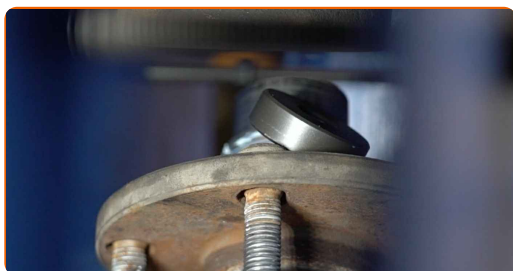




**40** Clean the ball joint fasteners. Use a wire brush. Use WD-40 spray.



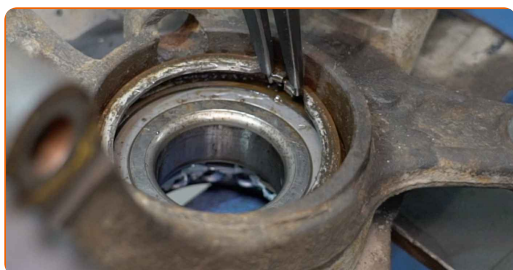
**41** Remove the hub from the steering knuckle. Use a bush and bearing driver set.



**42** Clean the wheel hub bearing retaining ring. Use a wire brush. Use WD-40 spray.



**43** Remove the wheel hub bearing retaining ring. Use circlip pliers.



- 44 Dismantle the inner bearing race that is remaining on the hub. Use a bush and bearing driver set. Use a bearing separator.



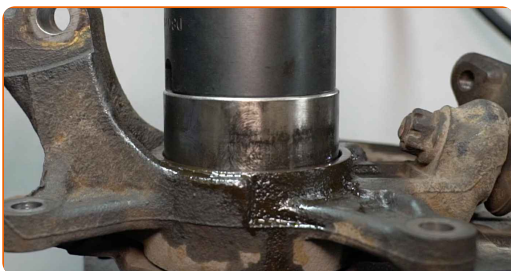
- 45 Press out the wheel hub bearing. Use a bush and bearing driver set.



- 46 Clean the hub bearing mounting seat. Use a wire brush. Use WD-40 spray.



- 47 Press the new bearing in the steering knuckle. Use a bush and bearing driver set.

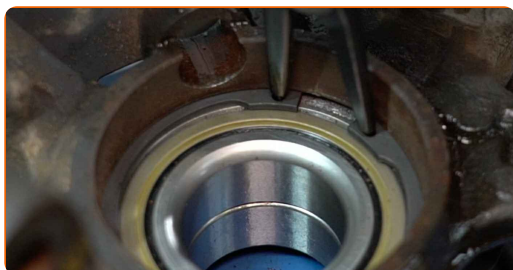




Replacement: wheel bearing – TOYOTA Avensis Verso (\_M2\_). Professionals recommend:

- Check to make sure the wheel hub bearing is positioned correctly. Avoid its misalignment.
- Stop pressing on the surface of the bearing immediately after it has been fitted into its mounting seat.

**48** Install the wheel hub bearing retaining ring. Use circlip pliers.



**49** Clean the hub bearing mounting seat. Use a wire brush. Use WD-40 spray.



**50** Install the wheel hub on the steering knuckle. Use a bush and bearing driver set.

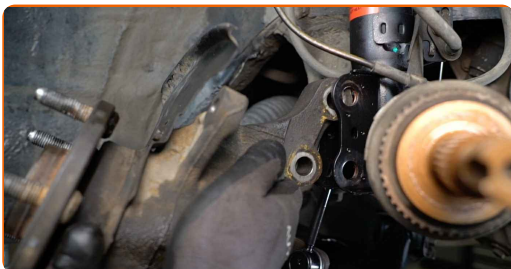


AUTODOC recommends:

- Make sure that the wheel hub is positioned correctly. Avoid any misalignment.

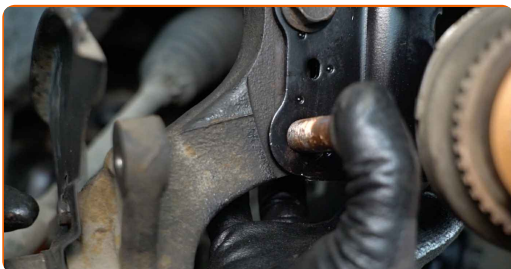
51

Install the steering knuckle assembled with the wheel hub.



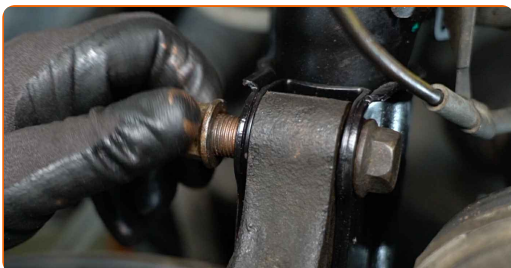
52

Fix the shock absorber strut on the steering knuckle.



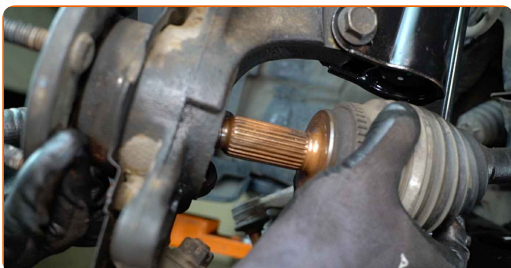
53

Install the fastening bolts.

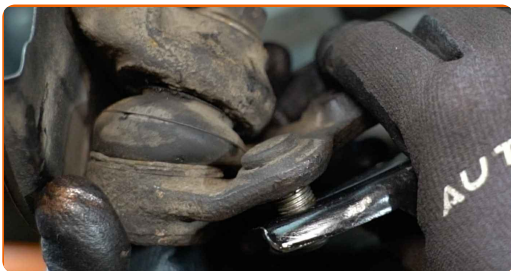


54

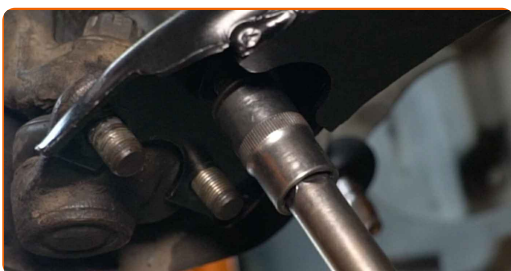
Install the steering knuckle on the CV axle.



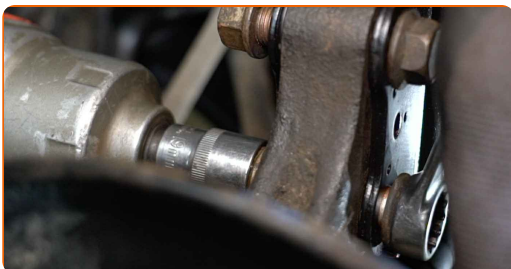
**55** Attach the ball joint to the control arm.



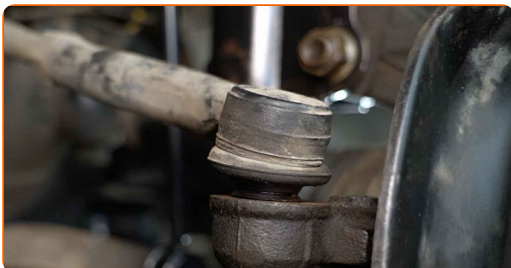
**56** Tighten the fasteners that connect the ball joint to the suspension arm. Use a drive socket #17. Use a ratchet wrench.



**57** Screw in the fasteners connecting the suspension strut to the steering knuckle. Use a combination spanner #19. Use a drive socket #19. Use a ratchet wrench.



**58** Connect the tie rod end to the steering knuckle.



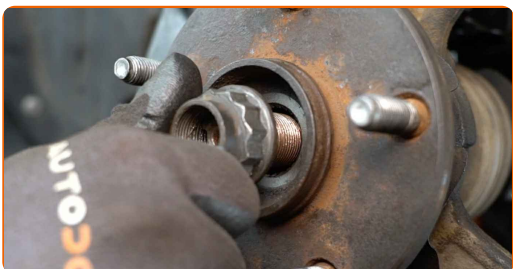
**59**

Screw on the fastening nut that connects the tie rod end to the steering knuckle. Use a drive socket #17. Use a ratchet wrench.



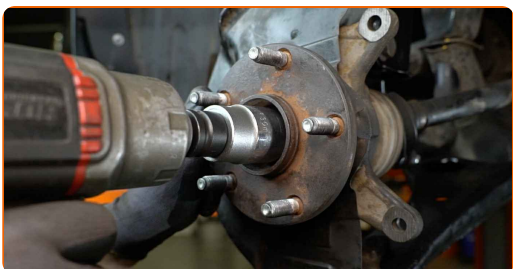
**60**

Install the fastening nut.



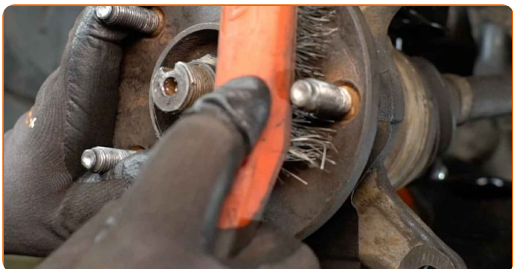
**61**

Screw in the fastener of the CV axle. Use 12-point socket No.30. Use a ratchet wrench.

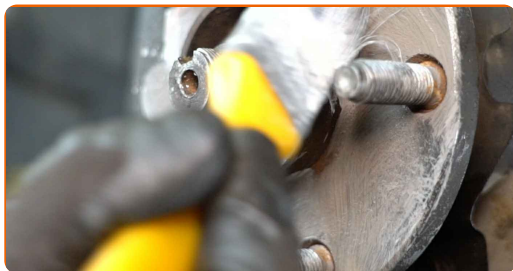


**62**

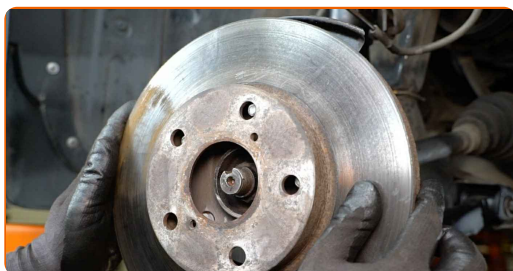
Clean the wheel hub. Use a wire brush. Use all-purpose cleaning spray.



**63** Treat the contacting surface. Use ceramic grease.

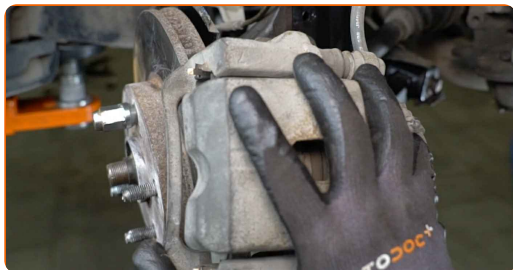


**64** Install the brake disc.

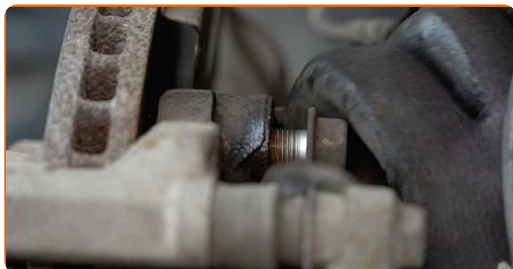


**65** Clean the mounting seat of the brake caliper bracket. Use a wire brush. Use WD-40 spray.

**66** Install the brake caliper together with its bracket.



**67** Install the fastening bolts.





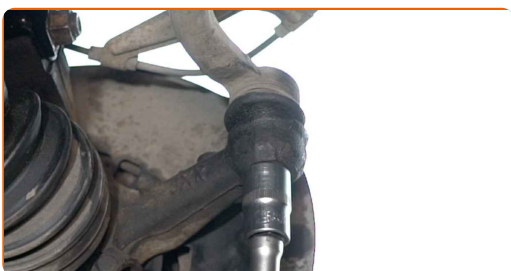
68

Screw in the fasteners of the brake caliper bracket. Use a drive socket #17. Use a ratchet wrench.



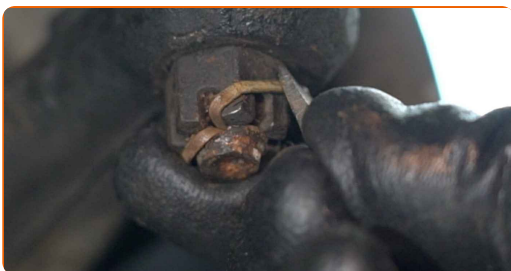
69

Tighten the fastening nut connecting the tie rod end to the steering knuckle. Use a drive socket #17. Use a torque wrench. Tighten it to 49 Nm torque.



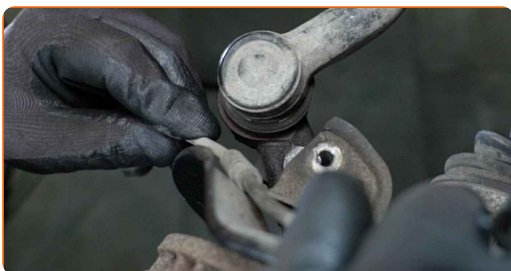
70

Install the cotter pin that secures the fastener connecting the ball joint to the steering knuckle. Use a crowbar.

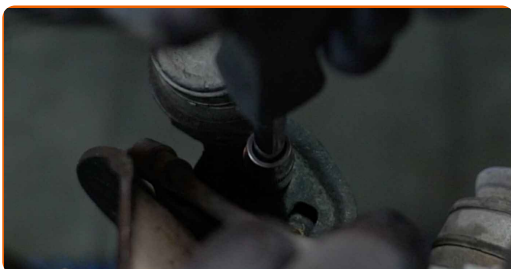


71

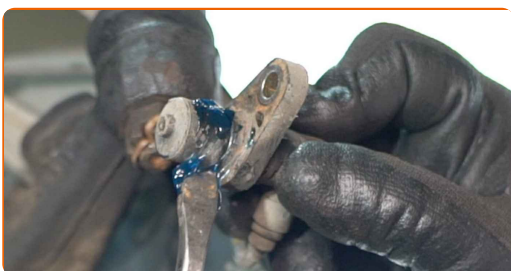
Connect the ABS sensor wiring.



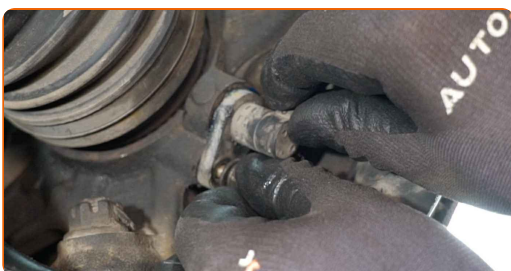
**72** Tighten the fastener of the ABS sensor wiring harness. Use a drive socket #10. Use a torque wrench. Tighten it to 8 Nm torque.



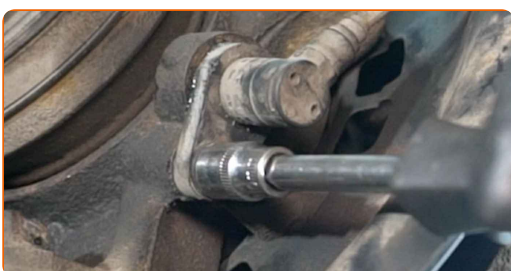
**73** Treat the mounting surface of the ABS sensor. Use a multipurpose grease.



**74** Connect the ABS sensor.

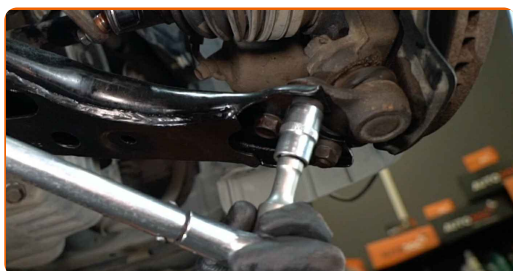


**75** Tighten the fastener that connects the ABS sensor to the steering knuckle. Use a drive socket #10. Use a torque wrench. Tighten it to 8 Nm torque.

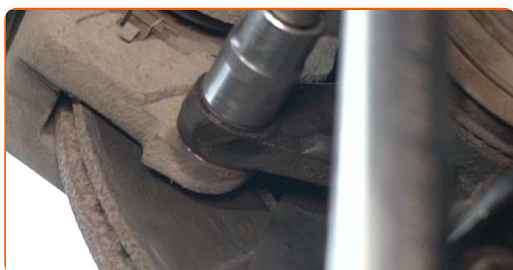




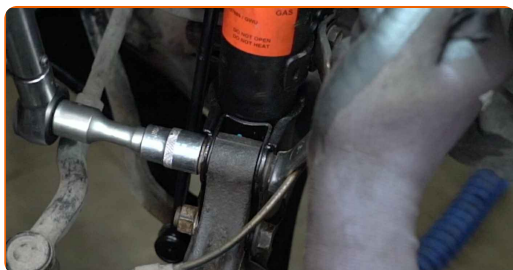
- 76** Tighten the fasteners connecting the ball joint to the control arm. Use a drive socket #17. Use a torque wrench. Tighten it to 75 Nm torque.



- 77** Tighten the brake caliper bracket fasteners. Use a drive socket #17. Use a torque wrench. Tighten it to 106 Nm torque.



- 78** Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a combination spanner #19. Use a drive socket #19. Use a torque wrench. Tighten it to 143 Nm torque.



- 79** Treat the shock strut fasteners. Use copper grease.

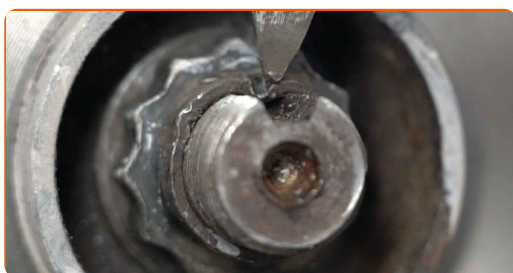
- 80** Treat the fastener connecting the tie rod end to the steering knuckle. Use copper grease.

- 81** Treat the fasteners of the ball joint. Use copper grease.

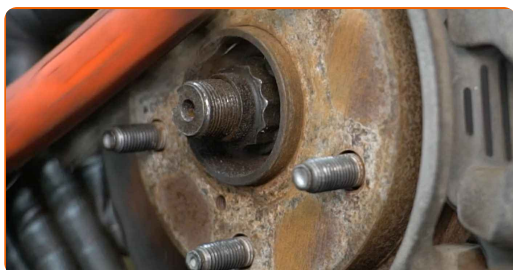
**82** Tighten the CV axle fastener. Use 12-point socket No.30. Use a torque wrench. Tighten it to 216 Nm torque.



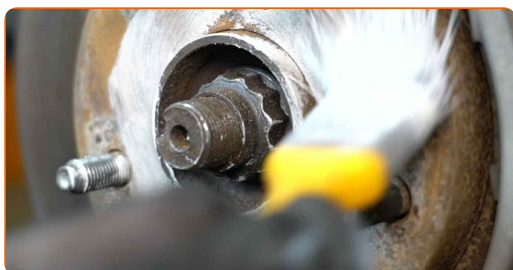
**83** Restake the fastener of the driveshaft. Use a flat metal-working chisel. Use a hammer.



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

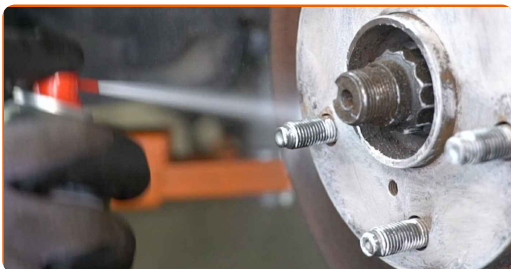


**85** Treat the surface where the brake disc contacts the wheel rim. Use ceramic grease.



86

Clean the brake disk surface. Use a brake cleaner.



**AUTODOC recommends:**

- Replacement: wheel bearing – TOYOTA Avensis Verso (\_M2\_). After applying the spray, wait a few minutes.

87

Install the wheel.

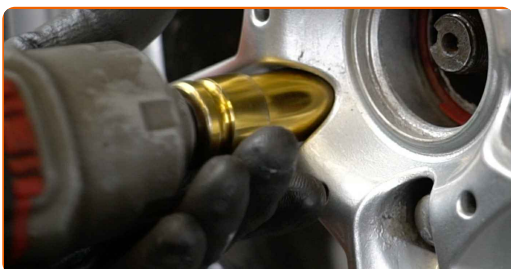


**AUTODOC recommends:**

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. TOYOTA Avensis Verso (\_M2\_)

88

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



**89**

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.



**90**

Remove the jacks and chocks.



Replacement: wheel bearing – TOYOTA Avensis Verso (\_M2\_). Tip from AUTODOC experts:

- 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.

**91**

Tighten the brake fluid reservoir cap. Close the hood.

**WELL DONE!** 

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**WHEEL BEARING: A WIDE SELECTION**

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