



How to change front  
wheel bearing on  
**RENAULT 21 Estate** –  
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:  
RENAULT 21 Estate 1.7

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: RENAULT Megane Scenic (JA) 1.6 16V

REPLACEMENT: WHEEL BEARING – RENAULT 21  
ESTATE. LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Electronic spray
- Copper grease
- Torque wrench
- Combination spanner #18
- Combination spanner #21
- Drive socket # 16
- Drive socket # 18
- Drive socket # 21
- Drive socket # 30
- Torx bit T40
- Wheel impact socket #19
- Bush and bearing driver set
- Bearing separator
- Ball joint puller
- Ratchet wrench
- Flat Screwdriver
- Impact screwdriver
- Tap wrench
- Crow bar
- Wheel chock

[Buy tools](#)

**AUTODOC recommends:**

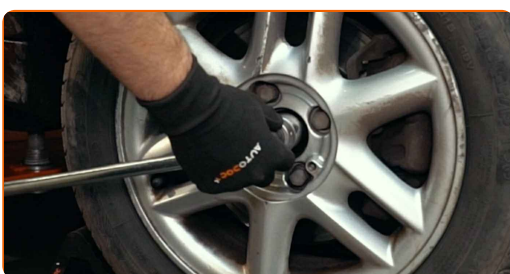
- Do not re-use the bearing assembly of your RENAULT 21 Estate car.
- The wheel hub bearing replacement procedure is identical for both wheels on the same axle.
- Please note: all work on the car – RENAULT 21 Estate – should be done with the engine switched off.

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

- 1** Clean the fastener of the driveshaft. Use a wire brush.



- 2** Loosen the fastener of the driveshaft. Use a drive socket #30. Use a tap wrench.



- 3** Secure the wheels with chocks.

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



5 Raise the car.

Replacement: wheel bearing – RENAULT 21 Estate. Tip from AUTODOC experts:

- 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.

6 Unscrew the wheel bolts.



AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.  
RENAULT 21 Estate

7

Remove the wheel.



8

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

9

Spread the brake pads. Use a crowbar.



10

Unscrew the caliper bracket fastening. Use a drive socket #18. Use a ratchet wrench.



11

Remove the brake caliper together with its bracket.



Replacement: wheel bearing – RENAULT 21 Estate. Tip from AUTODOC:

- 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.
- Check the brake caliper bracket, brake caliper guide pins and boots. Clean them. Replace, if necessary.

12

Detach the brake hose from the shock strut. Use a crowbar.



13

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





14 Unscrew the brake disc fastening. Use Torx T40. Use an impact screwdriver.



15 Remove the brake disc.



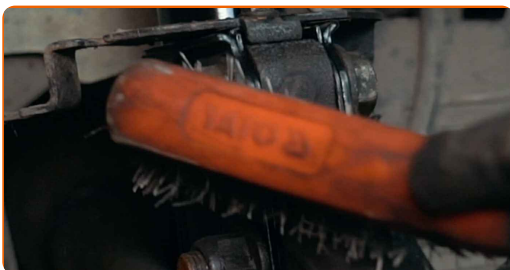
16 Disconnect the ABS sensor wiring.



17 Detach the ABS sensor connector.



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





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



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



21 Unscrew the fasteners connecting the suspension strut to the steering knuckle. Use a combination spanner #21. Use a drive socket #21. Use a ratchet wrench.



22 Unscrew the end fastening nut to the steering knuckle. Use a drive socket #16. Use a tap wrench.



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



**24** Disconnect the ball joint from the control arm. Use a combination spanner #18. Use a drive socket #18. Use a ratchet wrench.



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



**26** Unscrew the fastener connecting the drive shaft to the wheel hub. Use a drive socket #30. Use a ratchet wrench. Remove the fastening bolt.



27 Detach the driveshaft from the steering knuckle. Remove the fastening bolt.



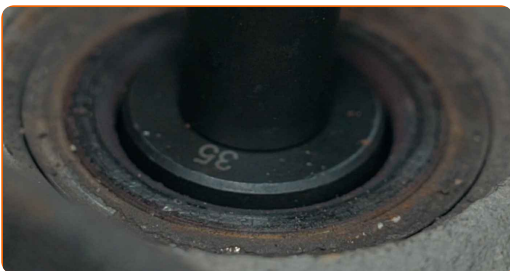
28 Disconnect the steering knuckle from the shock absorber strut.



29 Remove the steering knuckle together with the wheel hub.



30 Press the hub out of the steering knuckle. Use a bush and bearing driver set.



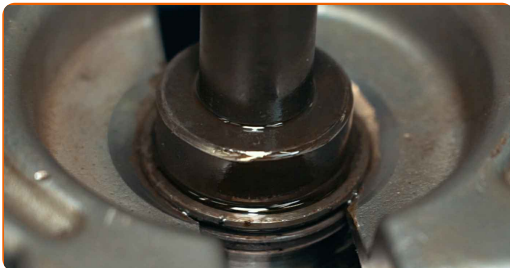
31 Clean the wheel hub bearing retaining ring. Use a wire brush. Use WD-40 spray.



**32** Remove the wheel hub bearing retaining ring. Use a flat screwdriver.



**33** Press out the inner bearing race that is remaining on the hub. Use a bearing separator. Use a bush and bearing driver set.



**34** Press out the wheel hub bearing. Use a bush and bearing driver set.



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



36

Press-fit the new bearing into the steering knuckle. Use a bush and bearing driver set.

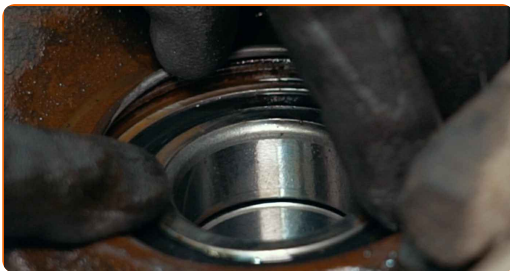


Replacement: wheel bearing – RENAULT 21 Estate. Tip from AUTODOC experts:

- Check to make sure the wheel hub bearing is positioned correctly. Avoid its misalignment.

37

Install the wheel hub bearing retaining ring. Use a flat screwdriver.



38

Clean the hub. Use a wire brush. Use WD-40 spray.



**39** Press-fit a new bearing into the wheel hub. Use a bush and bearing driver set.



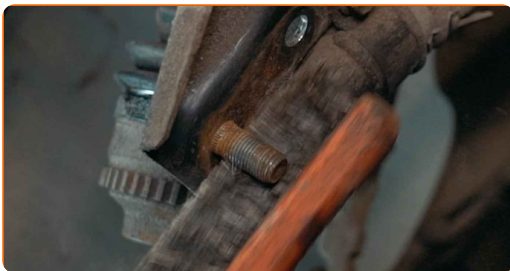
**40** Clean the lower fastener connecting the suspension strut to the steering knuckle. Use a wire brush. Use WD-40 spray.



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



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





43

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



44

Install the steering knuckle assembled with the wheel hub.

45

Fix the shock absorber strut on the steering knuckle.

46

Install the fastening bolt.



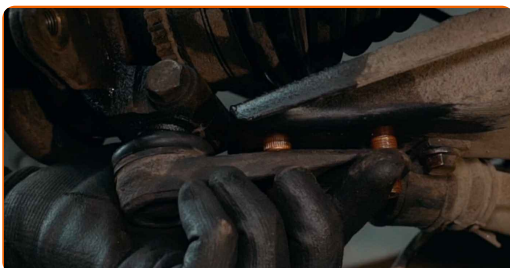
47

Install the drive shaft.



48

Attach the ball joint to the control arm. Install the fastening bolt.





- 49** Screw in the fastener connecting the ball joint to the control arm. Use a combination spanner #18. Use a drive socket #18. Use a ratchet wrench.



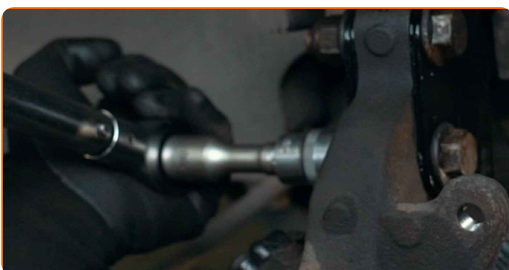
- 50** Tighten the fasteners connecting the ball joint to the control arm. Use a drive socket #18. Use a torque wrench. Tighten it to 75 nm torque.



- 51** Screw in the fasteners connecting the suspension strut to the steering knuckle. Use a combination spanner #21. Use a drive socket #21. Use a ratchet wrench.

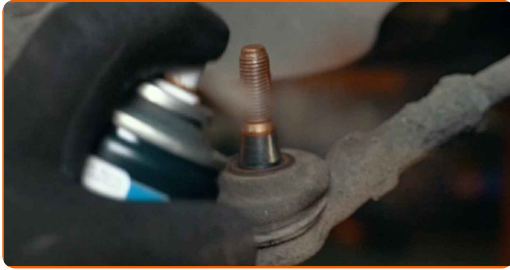


- 52** Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a combination spanner #21. Use a drive socket #21. Use a torque wrench. Tighten it to 170 Nm torque.



53

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



54

Clean the mounting seats of the tie rod end. Use a wire brush. Use WD-40 spray.



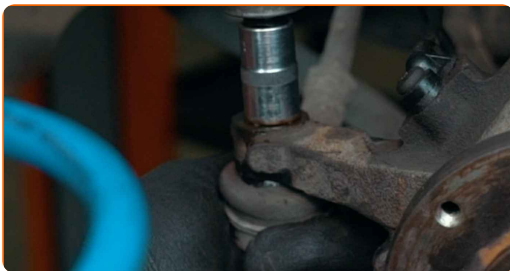
55

Connect the tie rod end to the steering knuckle.



56

Screw on the fastening nut that connects the tie rod end to the steering knuckle. Use a drive socket #16. Use a tap wrench.



- 57** Tighten the fastening nut connecting the tie rod end to the steering knuckle. Use a drive socket #16. Use a torque wrench. Tighten it to 35 nm torque.



- 58** Treat the ABS sensor connector. Use dielectric grease.



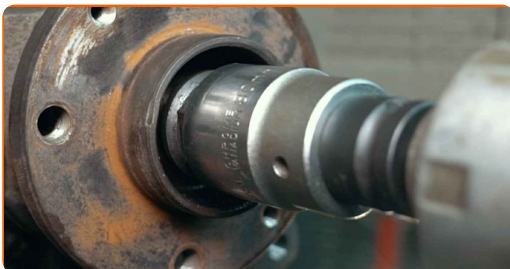
- 59** Attach the ABS sensor connector.



- 60** Connect the ABS sensor wiring.

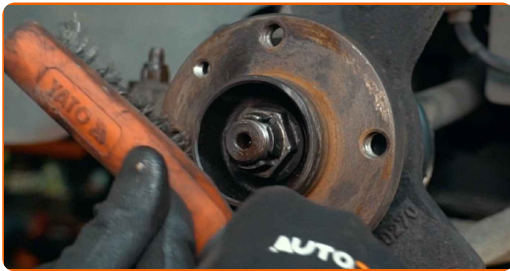


- 61** Screw in the fastener of the CV axle. Use a drive socket #30. Use a ratchet wrench.



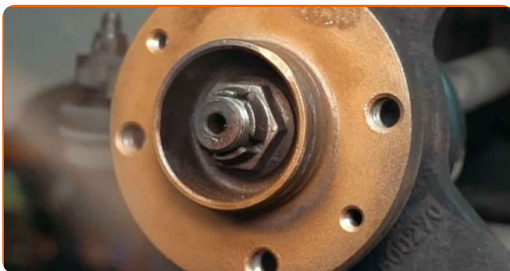
62

Clean the hub. Use a wire brush.



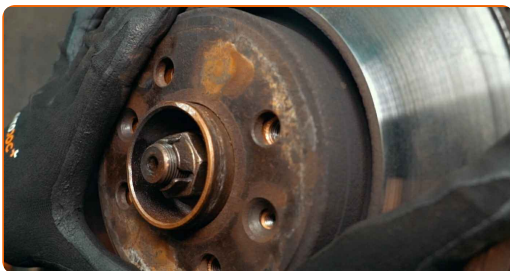
63

Treat the contacting surface. Use copper grease.



64

Install the brake disc.



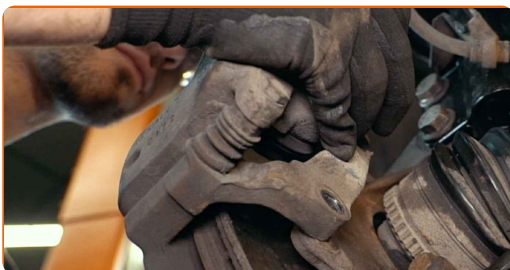
65

Tighten the brake disc fastening. Use Torx T40. Use a torque wrench. Tighten it to 14 Nm torque.

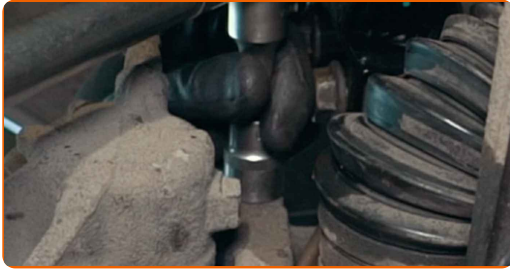


66

Install the brake caliper together with its bracket.



**67** Tighten the brake caliper bracket. Use a drive socket #18. Use a torque wrench. Tighten it to 100 Nm torque.



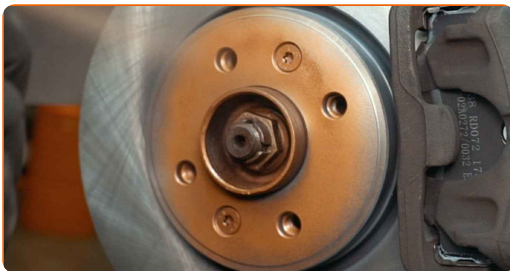
**68** Connect the brake hose fastener to the suspension strut.



**69** Treat all tie rod end connections. Treat the shock strut fasteners. Treat the fasteners of the ball joint. Use copper grease.

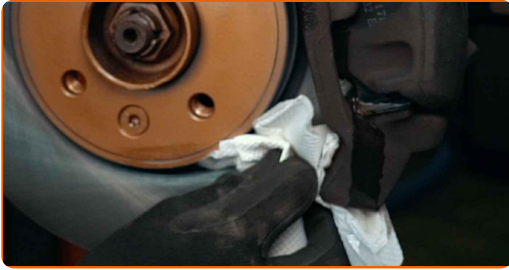


**70** Treat the surface where the brake disc contacts the wheel rim. Use copper grease.





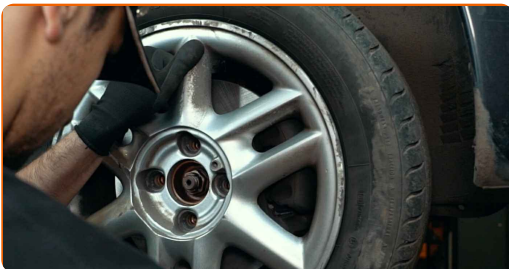
**71** Clean the brake disk surface. Use a brake cleaner.



**AUTODOC recommends:**

- Replacement: wheel bearing – RENAULT 21 Estate. After applying the spray, wait a few minutes.

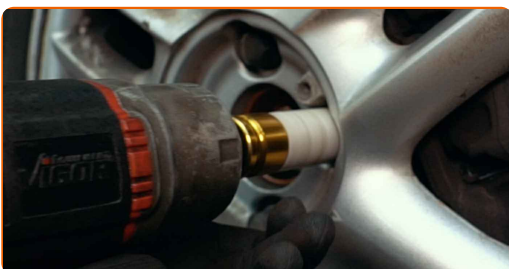
**72** Install the wheel.



**AUTODOC recommends:**

- Important! Hold the wheel while screwing in the fastening bolts. RENAULT 21 Estate

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



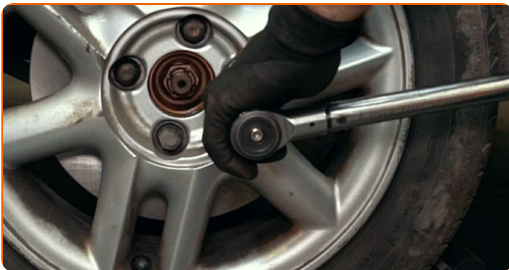
74 Lower the car.



75 Tighten the bolt connecting the drive shaft to the wheel hub. Use a drive socket #30. Use a torque wrench. Tighten it to 280 Nm torque.



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



77 Remove the jacks and chocks.



**WELL DONE!** 

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