



How to change front  
wheel bearing on  
**NISSAN MICRA IV (K13)** –  
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:  
NISSAN MICRA IV (K13) 1.2, NISSAN MICRA IV (K13) 1.2 DIG-S, NISSAN MICRA IV (K13) 1.2 LPG

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: NISSAN MICRA III (K12) 1.4 16V

**REPLACEMENT: WHEEL BEARING – NISSAN MICRA IV (K13). TOOLS YOU'LL NEED:**



- Wire brush
- Nylon cleaning brush
- WD-40 spray
- All-purpose cleaning spray
- Brake cleaner
- Copper grease
- Ceramic grease
- Torque wrench
- Combination spanner #16
- Combination spanner #17
- Drive socket # 14
- Drive socket # 16
- Drive socket # 17
- Drive socket # 18
- Drive socket # 30
- Torx bit T40
- Wheel impact socket #17
- Ratchet wrench
- Tap wrench
- Pin punch
- Impact screwdriver
- Hammer
- Ball joint puller
- Flat chisel
- Flat screwdriver
- Circlip pliers
- Bush and bearing driver set
- Bearing separator
- Wheel chock

**Buy tools**

Replacement: wheel bearing – NISSAN MICRA IV (K13). AUTODOC experts recommend:

- Do not re-use the bearing assembly of your NISSAN MICRA IV (K13) car.
- The wheel hub bearing replacement procedure is identical for both wheels on the same axle.
- Please note: all work on the car – NISSAN MICRA IV (K13) – 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 bolts. Use wheel impact socket #17. Use a tap wrench.



**3** 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.

**4** Unscrew the wheel bolts.



Replacement: wheel bearing – NISSAN MICRA IV (K13). Tip:

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

**5** Remove the wheel.



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



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



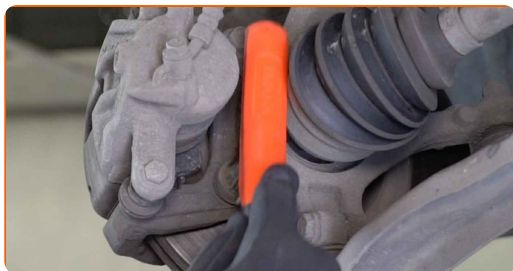
**8** Remove the fastening nut.



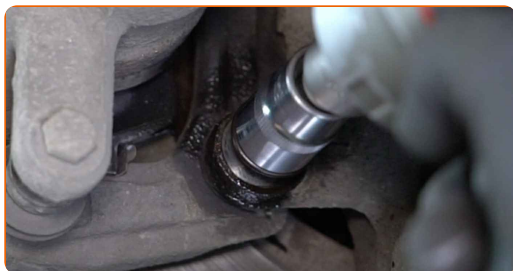
**9** Detach the driveshaft from the steering knuckle. Use a pin punch. Use a hammer.



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



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



**12** Remove the fastening bolts.

**13**

Remove the brake caliper together with its bracket.

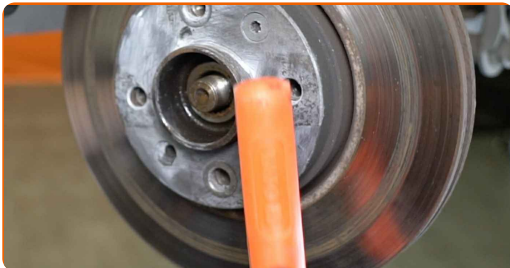


**Replacement: wheel bearing – NISSAN MICRA IV (K13). AUTODOC recommends:**

- 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.

**14**

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



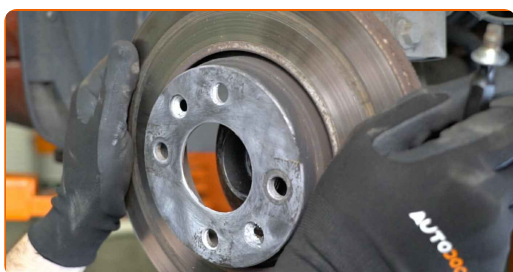


**15** Unscrew the brake disc fasteners. Use Torx T40. Use an impact screwdriver.

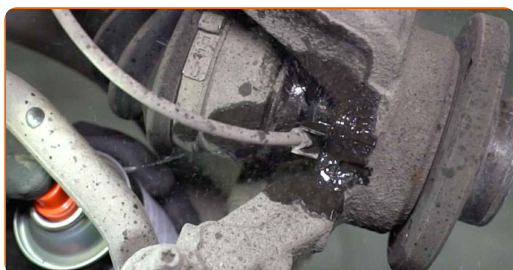


**16** Remove the fastening bolts.

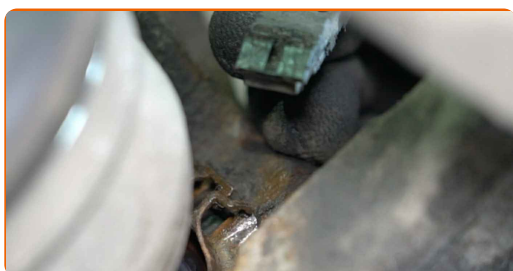
**17** Remove the brake disc.



**18** Clean the ABS sensor fastener. Use a nylon cleaning brush. Use all-purpose cleaning spray.



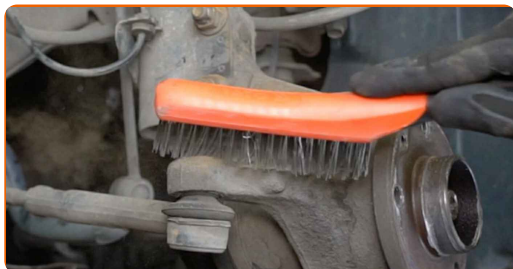
**19** Disconnect the ABS sensor.





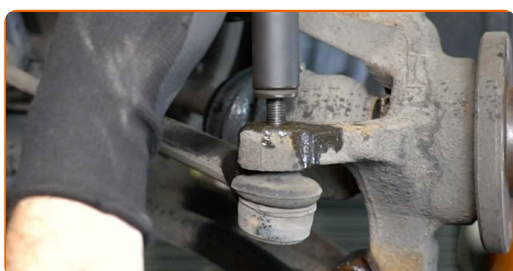
20

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



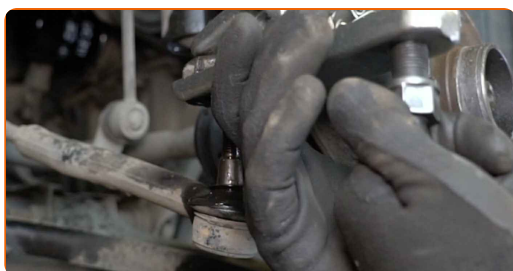
21

Unscrew the fastening nut connecting the tie rod end to the steering knuckle. Use a drive socket #14. Use a ratchet wrench.



22

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

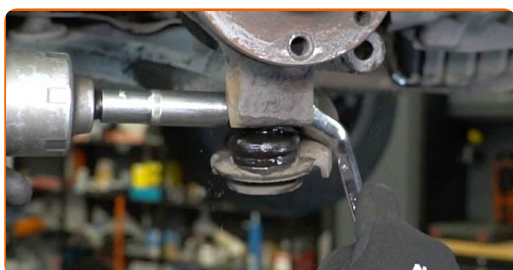


23

Clean the fastener connecting the ball joint to the steering knuckle. Use a wire brush. Use WD-40 spray.

24

Unscrew the fastener that connects the ball joint of the lower arm to the steering knuckle. Use a combination spanner #16. Use a drive socket #16. Use a ratchet wrench.

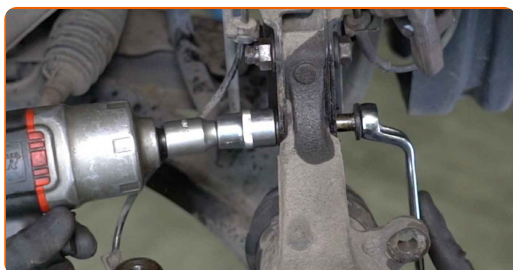


**25** Remove the fastening bolt.



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

**27** Unscrew the lower suspension strut fasteners. Use a combination spanner #17. Use a drive socket #18. Use a ratchet wrench.



**28** Remove the fastening bolts.

**29** Release the fastener connecting the ball joint to the steering knuckle. Use a flat metal-working chisel. Use a hammer.



**30** Disconnect the ball joint from the steering knuckle.



**31** Pull the CV axle out of the steering knuckle, lift it up, and tie it to the body.



**32** Disconnect the steering knuckle from the suspension strut.



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



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



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



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



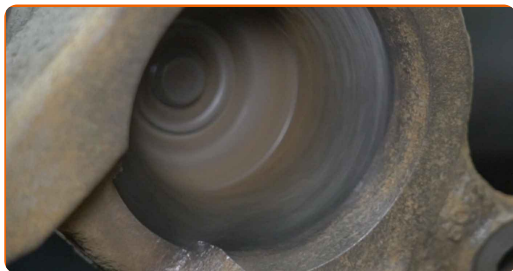
**37** Dismantle the inner bearing race that is remaining on the hub. Use a bush and bearing driver set. Use a bearing separator.



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



**39** Clean the hub bearing mounting seat. Use a wire brush.



**40** Install a new ABS sensor mounting ring.



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



**AUTODOC recommends:**

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

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



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



Replacement: wheel bearing – NISSAN MICRA IV (K13). AUTODOC experts recommend:

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

**44** Clean the steering knuckle mounting seats. Use a wire brush. Use all-purpose cleaning spray.





**45** Clean the tie rod end fastener. Use a wire brush. Use all-purpose cleaning spray.



**46** Clean the splines of the drive shaft CV joint. Use a wire brush. Use all-purpose cleaning spray.



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

**48** Clean the fastener connecting the ball joint to the steering knuckle. Use a wire brush. Use all-purpose cleaning spray.



**49** Install the steering knuckle assembled with the wheel hub.





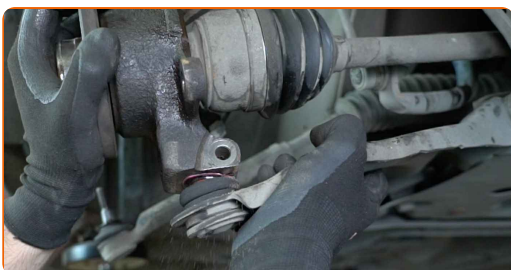
**50** Fasten the suspension strut on the steering knuckle.



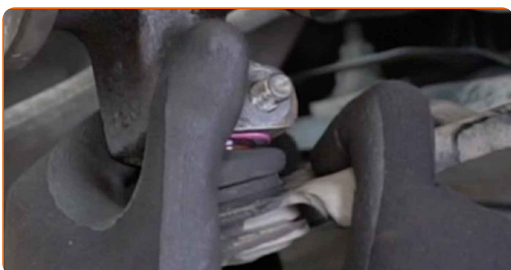
**51** Install the drive shaft.



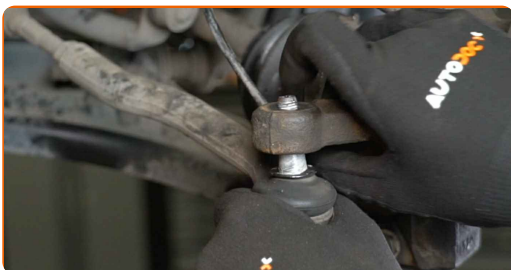
**52** Connect the ball joint to the steering knuckle.



**53** Install the fastening bolts.



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



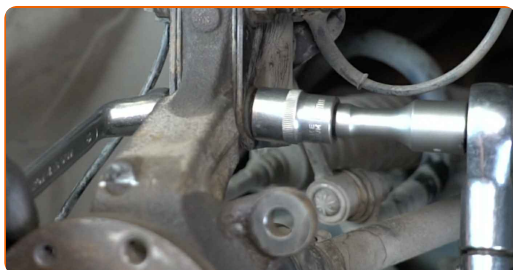
- 55** Tighten the fastening nut connecting the tie rod end to the steering knuckle. Use a drive socket #14. Use a torque wrench. Tighten it to 35 Nm torque.



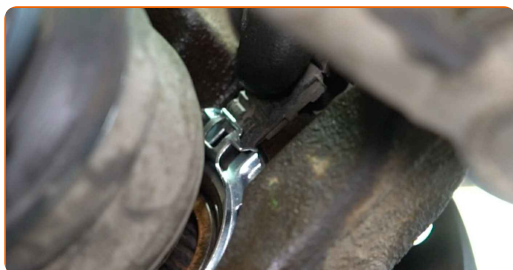
- 56** Tighten the fastener that connects the lower arm ball joint to the steering knuckle. Use a combination spanner #16. Use a drive socket #16. Use a torque wrench. Tighten it to 37 Nm torque.



- 57** Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a combination spanner #17. Use a drive socket #18. Use a torque wrench. Tighten it to 116 Nm torque.



- 58** Install the ABS sensor.



**59** Install the fastening nut.



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

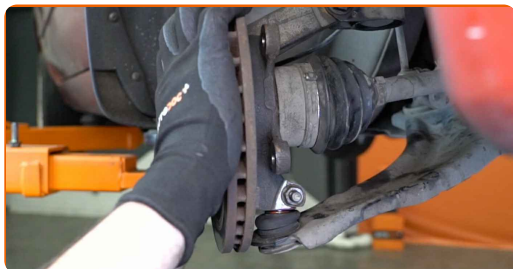


**61** Clean the wheel hub. Use a wire brush.



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

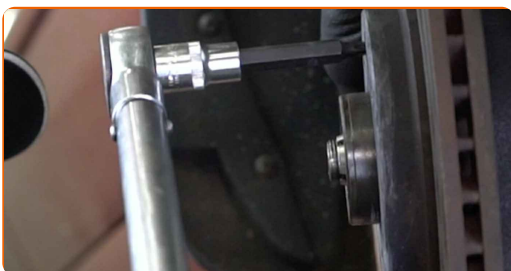
**63** Install the brake disc.



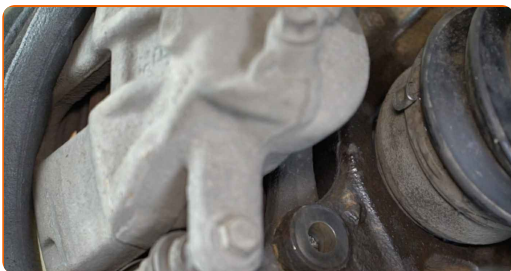
**64** Install the fastening bolts.



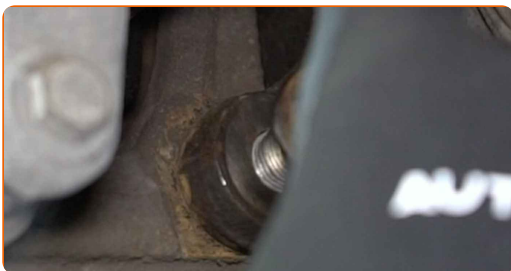
**65** Tighten the brake disc fasteners. Use Torx T40. Use a torque wrench. Tighten it to 10 Nm torque.



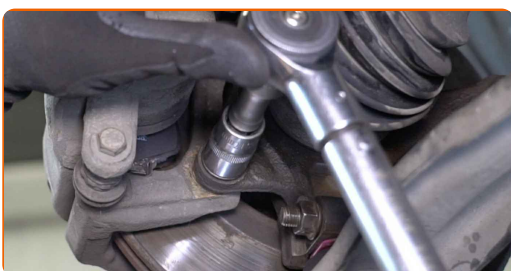
**66** Install the brake caliper together with its bracket.



**67** Install the fastening bolts.



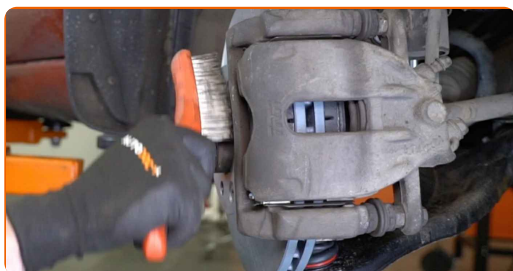
**68** Tighten the brake caliper bracket fasteners. Use a drive socket #17. Use a torque wrench. Tighten it to 105 Nm torque.



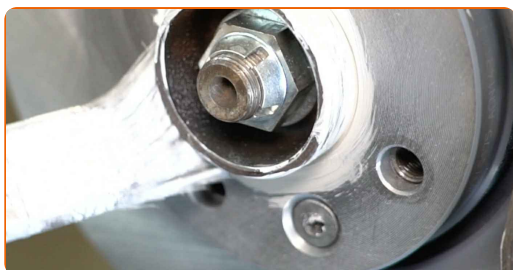
**69** Tighten the CV axle fastener. Use a drive socket #30. Use a torque wrench. Tighten it to 238 Nm torque.



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



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



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

**73** Install the wheel.





**AUTODOC recommends:**

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. NISSAN MICRA IV (K13)

**74**

Screw in the wheel bolts. Use wheel impact socket #17. Use a ratchet wrench.



**75**

Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #17. Use a torque wrench. Tighten it to 110 Nm torque.



**76**

Remove the jacks and chocks.



**WELL DONE!** 

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