



How to change front  
wheel bearing on **Opel**  
**Corsa S93** – replacement  
guide

## VIDEO TUTORIAL



### **i Important!**

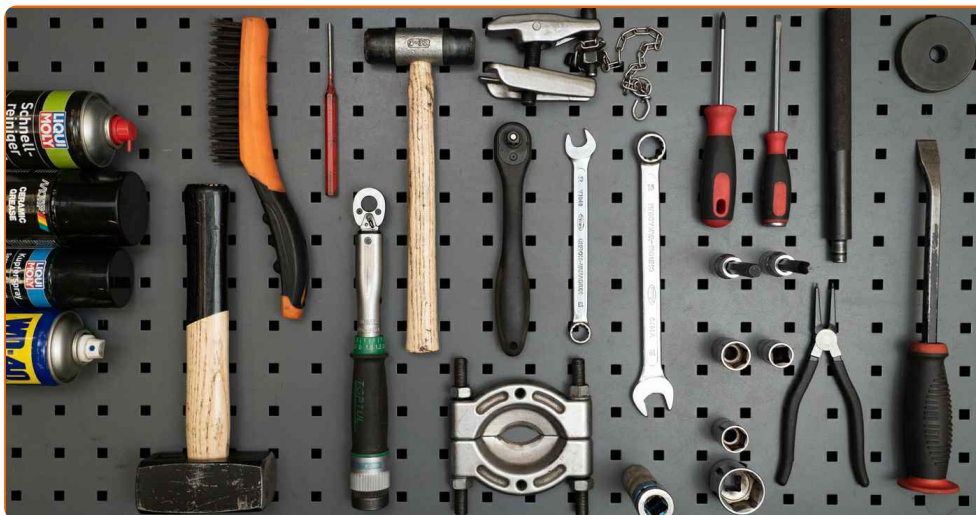
This replacement procedure can be used for:

OPEL Kadett E CC (T85) 1.2 (C08, C48, D08, D48), OPEL Kadett E CC (T85) 1.3 N (C08, C48, D08, D48), OPEL Kadett E CC (T85) 1.3 S (C08, C48, D08, D48), OPEL Kadett E CC (T85) 1.4 S (C08, C48, D08, D48), OPEL Kadett E CC (T85) 1.6 i (C08, C48, D08, D48), OPEL Kadett E CC (T85) 1.6 S (C08, C48, D08, D48), OPEL Kadett E CC (T85) 1.4 i (C08, C48, D08, D48), OPEL Kadett E Saloon (T85) 1.2 (C19, D19), OPEL Kadett E Saloon (T85) 1.3 N (C19, D19), OPEL Kadett E Saloon (T85) 1.3 S (C19, D19), OPEL Kadett E Saloon (T85) 1.4 S (C19, D19), OPEL Kadett E Saloon (T85) 1.6 i (C19, D19), OPEL Kadett E Saloon (T85) 1.6 S (C19, D19), OPEL Kadett E Saloon (T85) 1.4 i (C19, D19), OPEL Kadett E Caravan (T85) 1.2 (C15, C35, D15, D35), (+ 89)

The steps may slightly vary depending on the car design.

## REPLACEMENT: WHEEL BEARING – OPEL CORSA S93.

### LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- All-purpose cleaning spray
- Brake cleaner
- Ceramic grease
- Copper grease
- Torque wrench
- Combination spanner #13
- Combination spanner #18
- Drive socket # 13
- Drive socket # 17
- Drive socket # 18
- Drive socket # 30
- HEX bit no.H5.
- HEX bit no.H10.
- Wheel impact socket #17
- Ratchet wrench
- Bush and bearing driver set
- Bearing separator
- Ball joint puller
- Circlip pliers
- Flat Screwdriver
- Phillips Screwdriver
- Tap wrench
- Hammer
- Rubber mallet
- Crow bar
- Wheel chock

**BUY TOOLS**

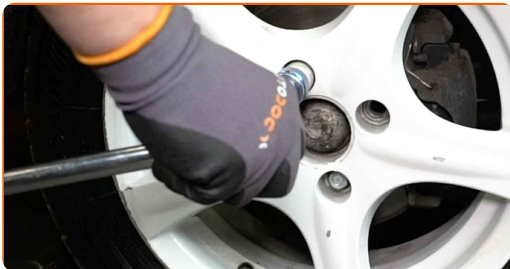
### AUTODOC recommends:

- Do not re-use the bearing assembly of your Opel Corsa S93 car.
- The wheel hub bearing replacement procedure is identical for both wheels on the same axle.
- Please note: all work on the car – Opel Corsa S93 – 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 #17.



3 Raise the car.

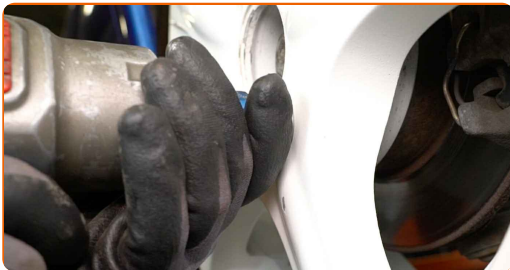


## Replacement: wheel bearing – Opel Corsa S93. Professionals recommend:

- 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:

- Important! Hold the wheel while unscrewing the fastening bolts. Opel Corsa S93

5

Remove the wheel.



6

Remove the wheel hub nut cap. Use a crowbar. Use a hammer.



7

Remove the cotter pin securing the hub nut. Use a crowbar. Use a flat screwdriver.



8

Install the wheel.



### AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. Opel Corsa S93

9

Screw in the wheel bolts. Use wheel impact socket #17.



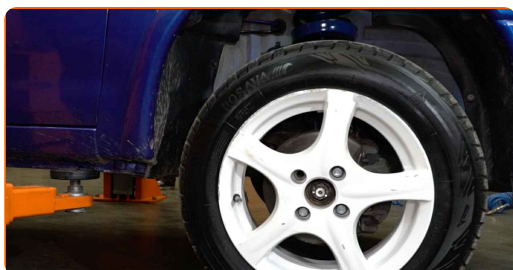
**10** Lower the car.



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



**12** Raise the car.



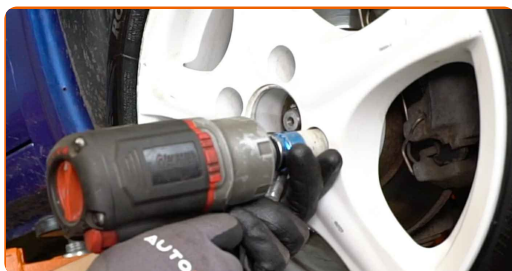
### AUTODOC recommends:

- 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.



13

Unscrew the wheel bolts.

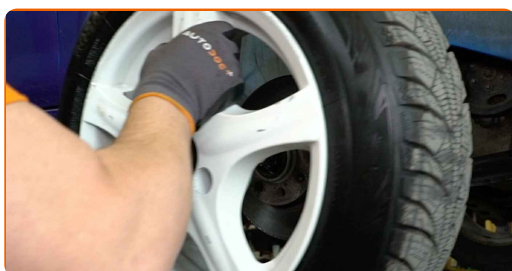


AUTODOC recommends:

- Important! Hold the wheel while unscrewing the fastening bolts. Opel Corsa S93

14

Remove the wheel.



15

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



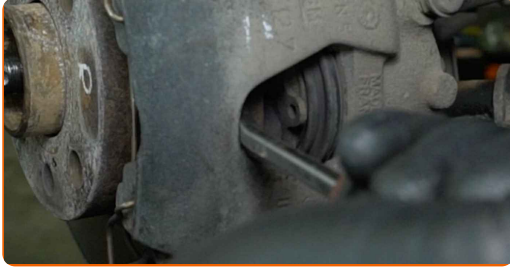
16

Remove the wheel bearing washer. Use a crowbar.





- 17 Spread the brake pads. Use a crowbar.



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



- 19 Unscrew the caliper bracket fastening. Use HEX No.H10. Use a tap wrench. Use a ratchet wrench.



- 20 Remove the brake caliper together with its bracket.



### Replacement: wheel bearing – Opel Corsa S93. Tip from AUTODOC experts:

- 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.

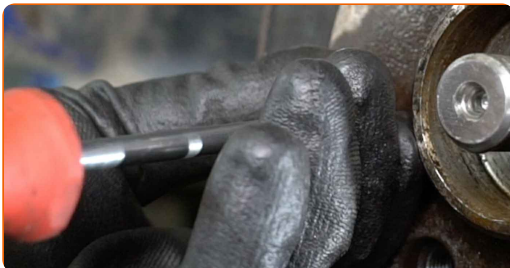
21

Clean the brake disc fastener. Use a wire brush. Use all-purpose cleaning spray.



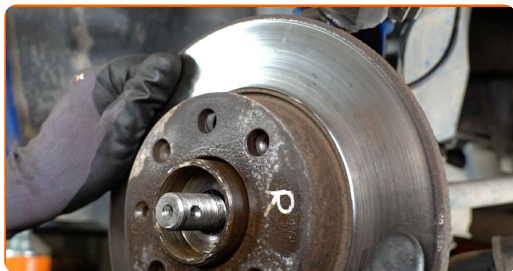
22

Unscrew the brake disc fastening. Use a Phillips screwdriver.



23

Remove the brake disc.



Replacement: wheel bearing – Opel Corsa S93. AUTODOC experts recommend:

- If necessary, use a rubber mallet.

24

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



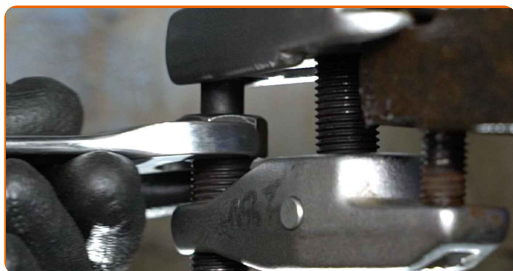
25

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.



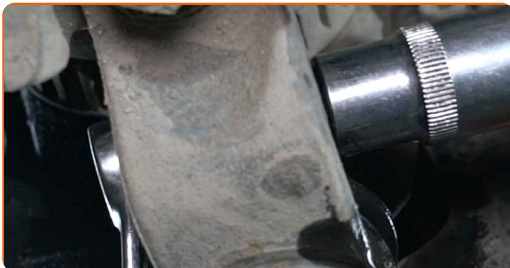
27

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



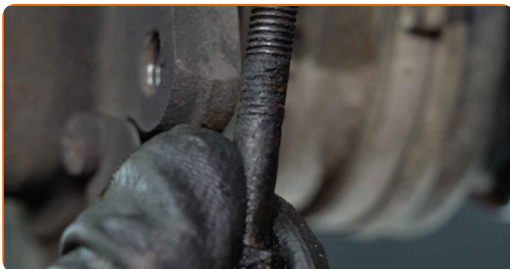
28

Unscrew the ball joint fastening to the steering knuckle. Use a combination spanner #13. Use a drive socket #13. Use a ratchet wrench.



29

Remove the fastening bolt.



30

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

31

Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #18. Use a ratchet wrench.



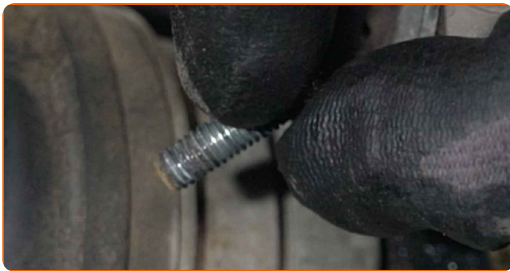
**32** Clean the ABS sensor fastener. Use a wire brush. Use WD-40 spray.



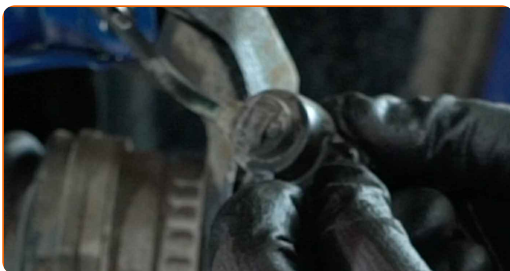
**33** Unscrew the ABS sensor fastener. Use HEX No.H5. Use a ratchet wrench.



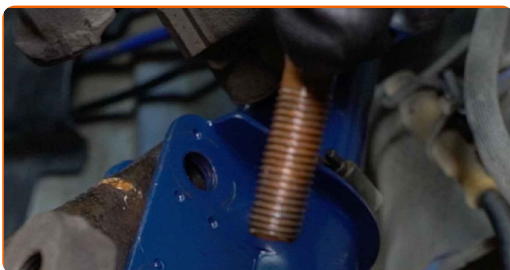
**34** Remove the fastening bolt.



**35** Disconnect the ABS sensor.



**36** Remove the fastening bolts.





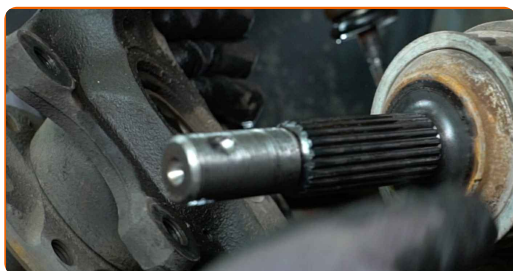
37

Disconnect the steering knuckle from the shock absorber strut.



38

Detach the driveshaft from the steering knuckle.



Replacement: wheel bearing – Opel Corsa S93. AUTODOC recommends:

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

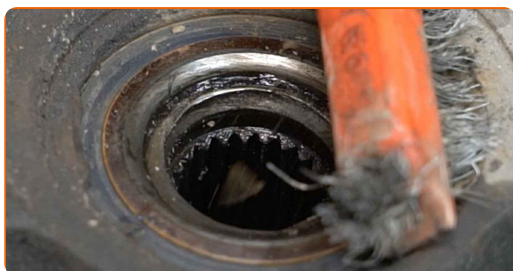
39

Disconnect the ball joint from the steering knuckle.



40

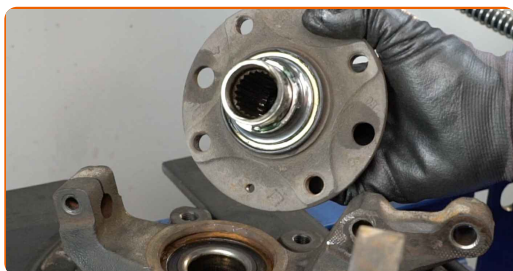
Clean the wheel hub bearing retaining ring. Use a wire brush. Use WD-40 spray.



41 Remove the wheel hub bearing retaining ring. Use circlip pliers.



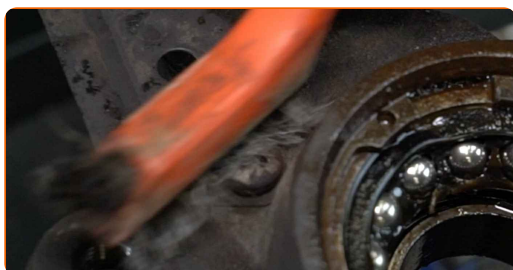
42 Remove the wheel hub from the steering knuckle. Use a bush and bearing driver set.



43 Clean the wheel hub bearing retaining ring.



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





45

Unscrew the fasteners of the brake disc cover. Use a Phillips screwdriver.



46

Remove the brake disc cover.



47

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



48

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



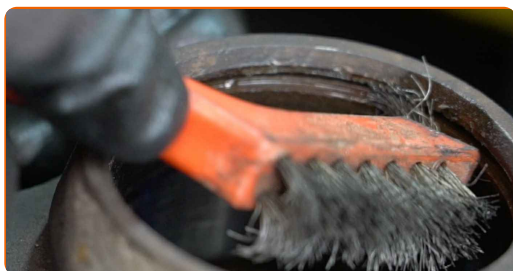
49

Press out the inner bearing race that is remaining on the hub. Use a bearing separator.



50

Clean the hub bearing mounting seat. Use a wire brush. Use WD-40 spray. Use all-purpose cleaning spray.



51

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



52

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



## Replacement: wheel bearing – Opel Corsa S93. Tip from AUTODOC experts:

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

53

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



54

Install the brake disc cover.



55

Tighten the fasteners of the brake disc back plate. Use a Phillips screwdriver. Use a torque wrench. Tighten it to 7 Nm torque.



56

Clean the wheel hub mounting seat. Use all-purpose cleaning spray.



57

Treat the wheel hub mounting seat. Use WD-40 spray.



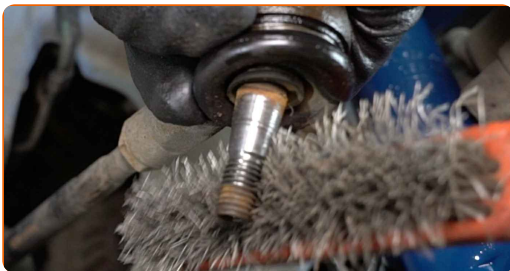
58

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



59

Clean the mounting seats of the shock strut. Clean the mounting seat of the tie rod end. Clean the splines of the drive shaft CV joint. Clean the ball joint mounting seat. Use a wire brush. Use WD-40 spray. Use copper grease.



**60**

Connect the ball joint to the steering knuckle.

**61**

Install the drive shaft.

**62**

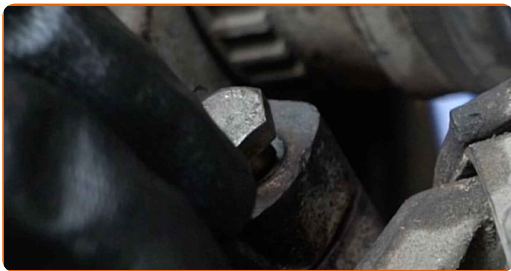
Install the steering knuckle.

**63**

Install the fastening bolt.

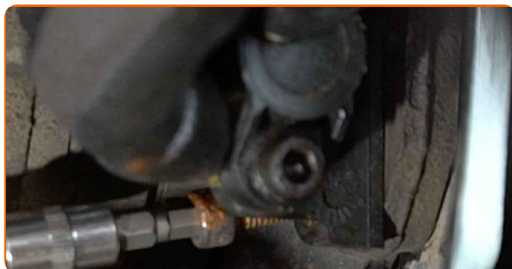
**64**

Install the fastening bolt.

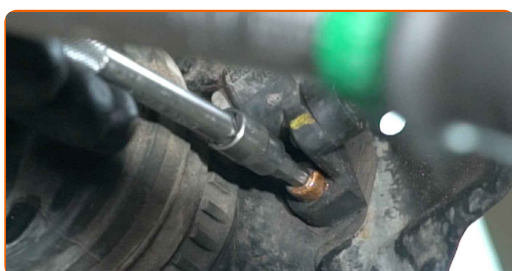




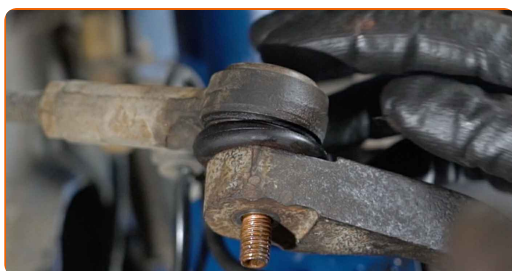
**65** Connect the ABS sensor.



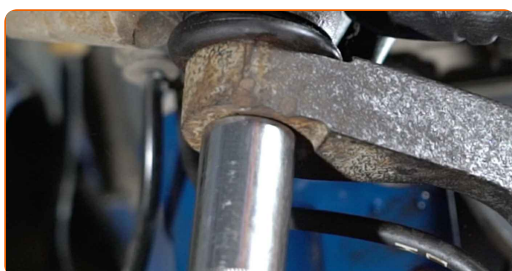
**66** Tighten the fastener that connects the ABS sensor to the steering knuckle. Use HEX No.H5. Use a torque wrench. Tighten it to 8 Nm torque.



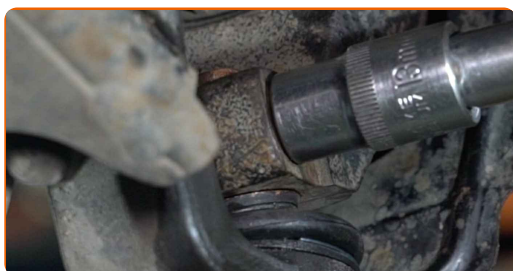
**67** Connect the tie rod end to the steering knuckle.



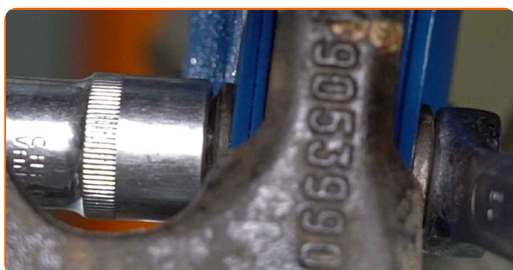
**68** Screw on the fastening nut that connects the tie rod end to the steering knuckle. Use a drive socket #17. Use a ratchet wrench.



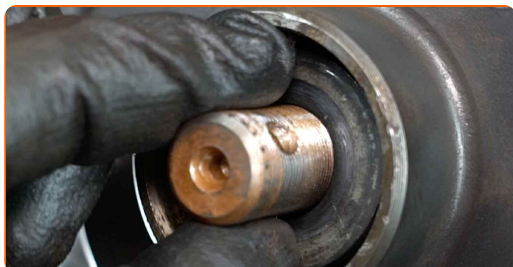
- 69** Screw the fastener connecting the ball joint to the steering knuckle. Use a combination spanner #13. Use a drive socket #13. Use a ratchet wrench.



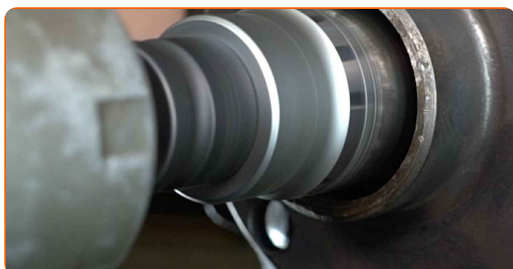
- 70** Screw in the fastener that connects the shock strut to the steering knuckle. Use a combination spanner #18. Use a drive socket #18. Use a ratchet wrench.



- 71** Fit the wheel bearing washer.



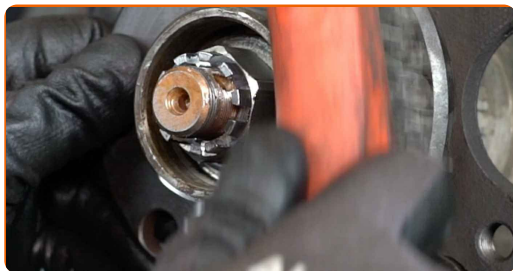
- 72** Screw the nut of the drive shaft. Use a drive socket #30. Use a ratchet wrench.





73

Clean the hub. Use a wire brush. Treat the contacting surface. Use ceramic grease.



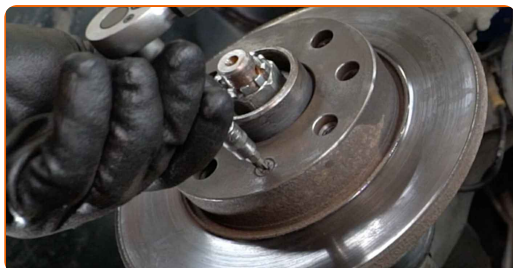
74

Install the brake disc.



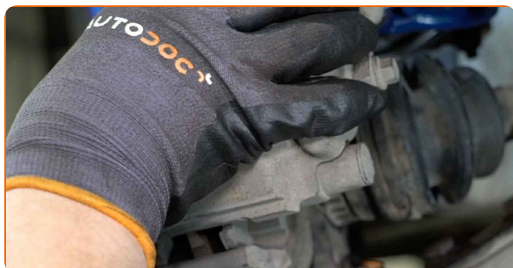
75

Tighten the brake disc fastening. Use a Phillips screwdriver. Use a torque wrench. Tighten it to 7 Nm torque.



76

Install the brake caliper bracket.



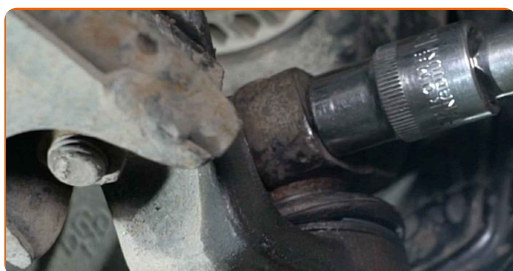
77

Tighten the brake caliper bracket. Use HEX No.H10. Use a torque wrench. Tighten it to 95 Nm torque.



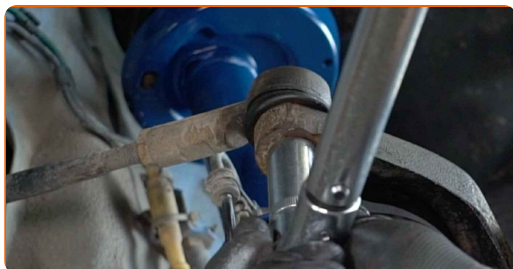
78

Tighten the fastener connecting the ball joint to the steering knuckle. Use a combination spanner #18. Use a drive socket #18. Use a torque wrench. Tighten it to 30 Nm torque.



79

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 35 Nm torque.



80

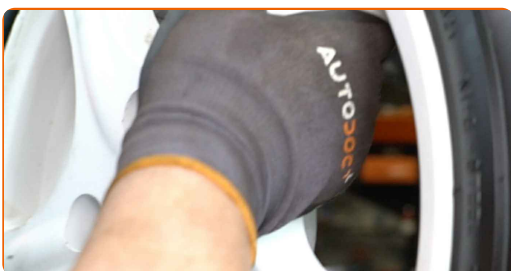
Tighten the lower fasteners of the suspension strut. Use a drive socket #18. Use a torque wrench. Tighten it to 90 Nm torque.+45°



- 81 Treat the shock strut fasteners. Treat the fastener connecting the tie rod end to the steering knuckle. Treat the CV axle fastener. Treat the fasteners of the ball joint. Use copper grease.



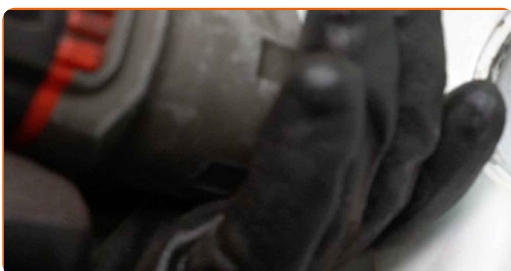
- 82 Install the wheel.



### AUTODOC recommends:

- Important! Hold the wheel while screwing in the fastening bolts. Opel Corsa S93

- 83 Screw in the wheel bolts. Use wheel impact socket #17.



84

Lower the car.



85

Tighten the drive shaft nut. Use a drive socket #30. Use a torque wrench. Tighten it to 130 Nm torque.



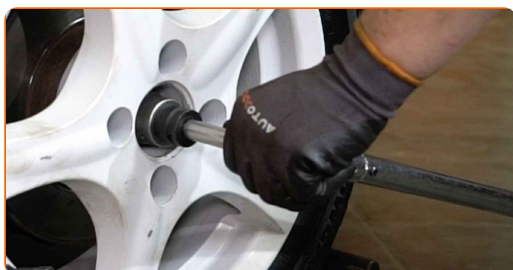
86

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



87

Tighten the drive shaft nut. Use a drive socket #30. Use a torque wrench. Tighten it to 20 Nm torque.+90°



88

Raise the car.



Replacement: wheel bearing – Opel Corsa S93. Tip from AUTODOC:

- 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.

89

Unscrew the wheel bolts.



AUTODOC recommends:

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

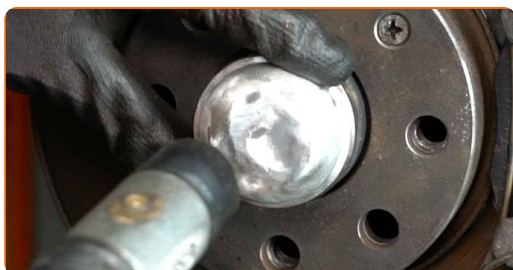
**90** Remove the wheel.



**91** Install a new hub nut cotter pin. Use a crowbar.



**92** Install the cap of the hub nut. Use a rubber mallet.



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



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





### AUTODOC recommends:

- Replacement: wheel bearing – Opel Corsa S93. After applying the spray, wait a few minutes.

95

Install the wheel.

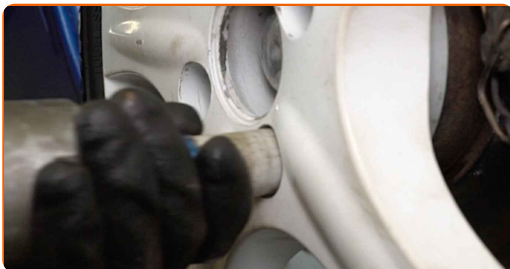


### AUTODOC recommends:

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

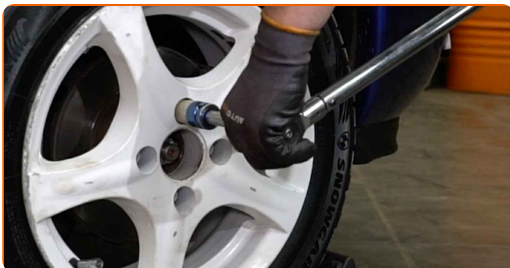
96

Screw in the wheel bolts. Use wheel impact socket #17.



97

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.





98

Remove the jacks and chocks.



Replacement: wheel bearing – Opel Corsa S93. Tip from AUTODOC experts:

- Without starting the engine, press the brake pedal several times until you feel significant resistance.

**WELL DONE!** 

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