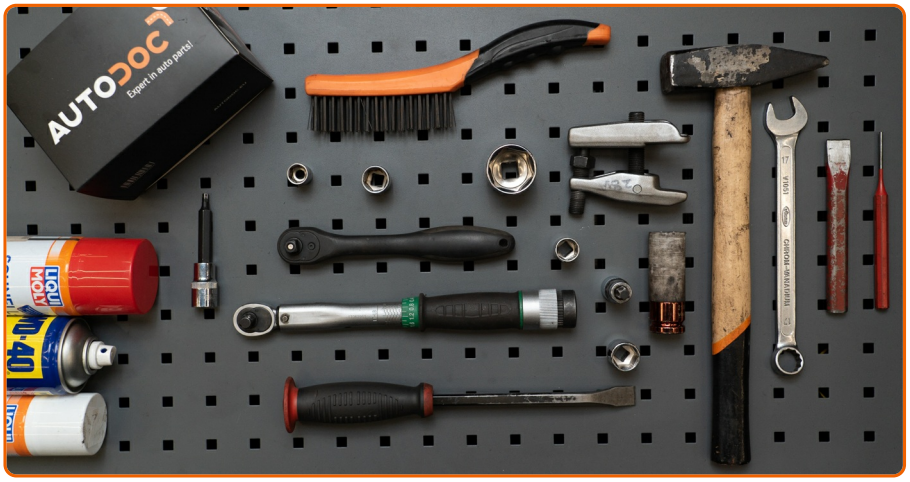
VIDEO TUTORIAL

ⓘ Important!

This replacement procedure can be used for:
FORD MONDEO III (B5Y) 1.8 16V, FORD MONDEO III Saloon (B4Y) 1.8 16V, FORD MONDEO III Turnier (BWY) 1.8 16V

The steps may slightly vary depending on the car design.

REQUIRED TOOLS:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #17
- Drive socket # 13
- Drive socket # 15
- Drive socket # 17
- Drive socket # 18
- Drive socket # 32
- HEX bit no.H5.
- Torx bit T55
- Wheel impact socket #19
- Ratchet wrench
- Torque wrench
- Flat Screwdriver
- Pin punch
- Flat chisel
- Hammer
- Ball joint puller
- Crow bar
- Hydraulic strut spring compressor
- Hydraulic transmission jack
- Fender cover
- Wheel chock

AUTODOC recommends:

- Both shock struts of the front suspension should be replaced simultaneously.
- The replacement procedure is identical for the left and right shock struts of the front suspension.
- All work should be done with the engine stopped.

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 front of the car and secure on supports.

4

Unscrew the wheel bolts.

AUTODOC recommends:

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

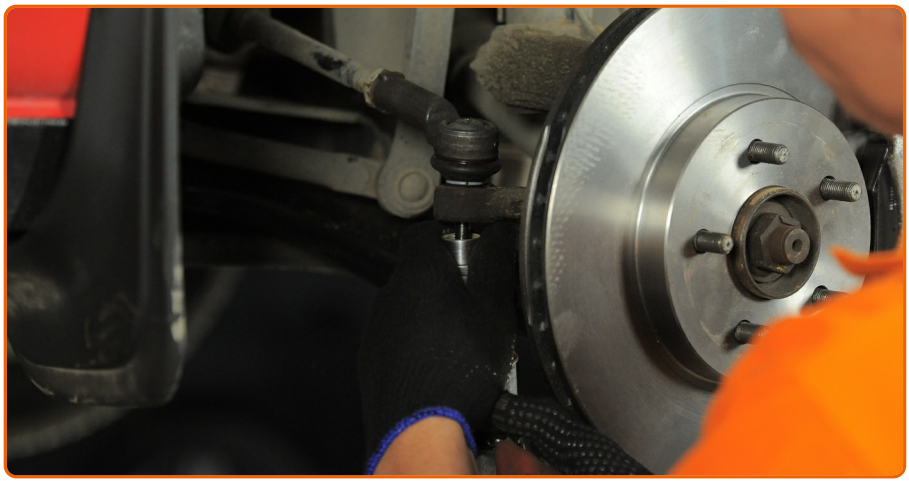
5

Remove the wheel.

6

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

7



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

8

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

9

Clean the stabiliser link fasteners. Use a wire brush. Use WD-40 spray.

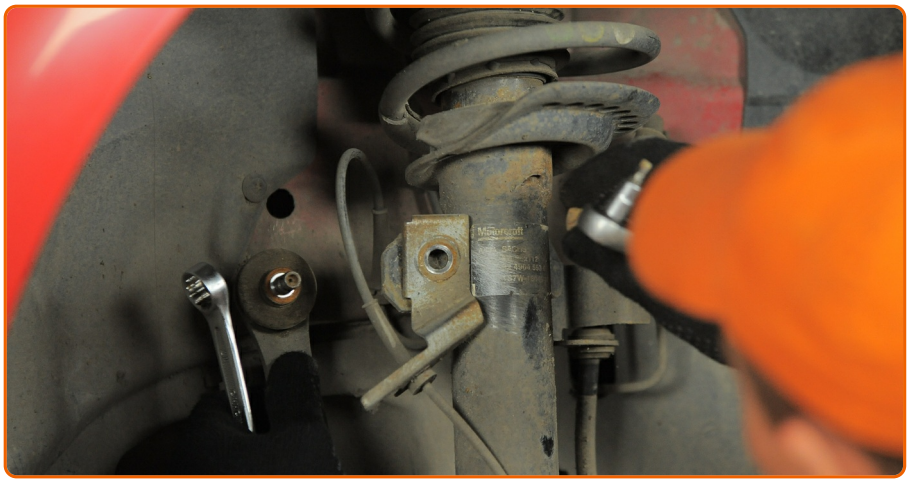
10

Unscrew the fastener connecting the stabilizer link to the shock strut. Use a combination spanner #17. Use HEX No.H5. Use a ratchet wrench.

11

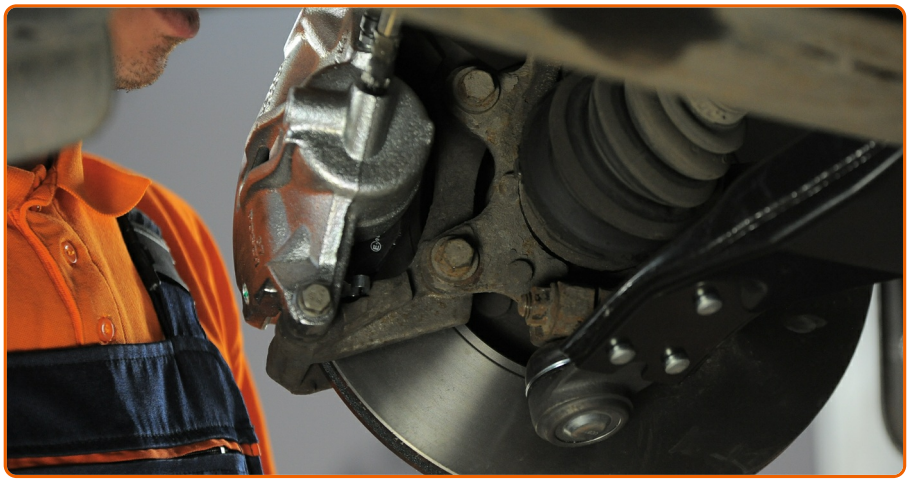
Remove the bracket from the shock absorber strut.

12



Remove the stabilizer rod.

13



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

14

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

15

Remove the fastening bolts (2 pieces).

16

Remove the brake caliper together with its bracket.

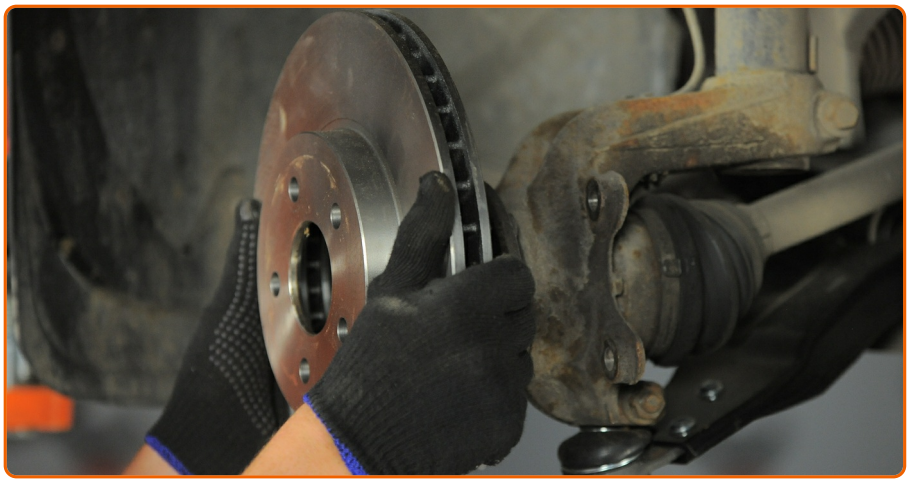
AUTODOC recommends:

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

17

Detach the brake hose from the shock strut. Use a flat screwdriver.

18



Remove the brake disc.

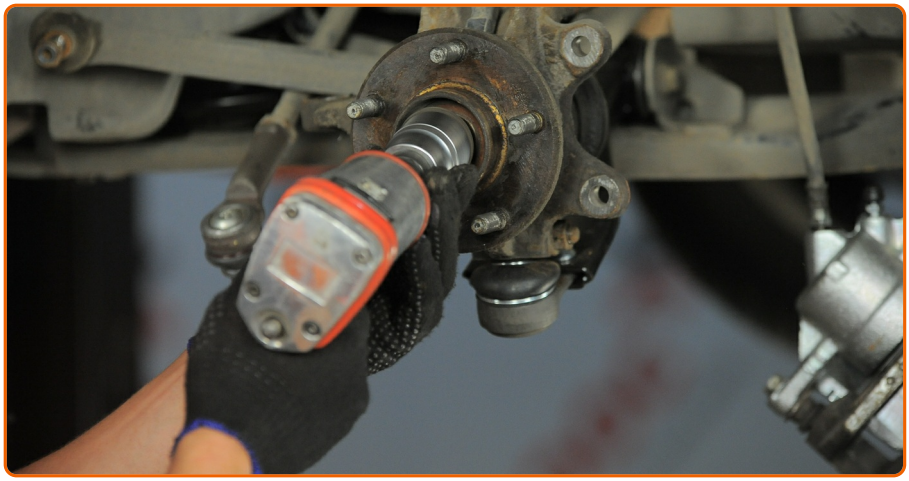
19

Detach the ABS sensor connector. Use a flat screwdriver.

20

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

21



Unscrew the fastener connecting the drive shaft to the wheel hub. Use a drive socket #32. Use a ratchet wrench.

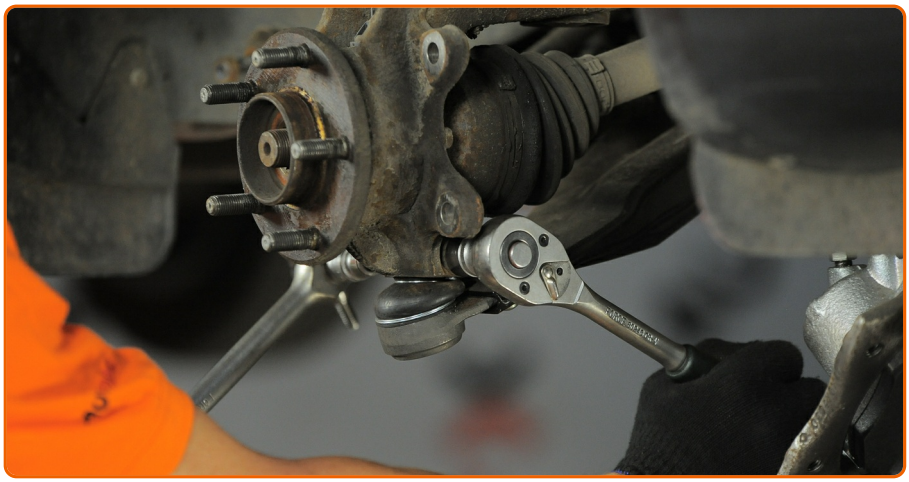
22

Remove the fastening nut.

23

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

24



Unscrew the ball joint fastening to the steering knuckle. Use Torx T55. Use a drive socket #18. Use a ratchet wrench.

25

Remove the fastening bolt.

26

Disconnect the ball joint from the steering knuckle. Use a crowbar.

27

Remove the drive shaft from the wheel hub. Use a pin punch. Use a hammer.

AUTODOC recommends:

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

28

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

29

Unscrew the brake hose fastening bracket from the shock strut. Use a drive socket #15. Use a ratchet wrench.

30

Disconnect the brake hose mounting bracket.

31

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

32

Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use a drive socket #15. Use a ratchet wrench.

33

Remove the fastening bolt.

34

Disconnect the steering knuckle from the shock absorber strut. Use a hammer.

35

Lower the car.

36

Open the bonnet.

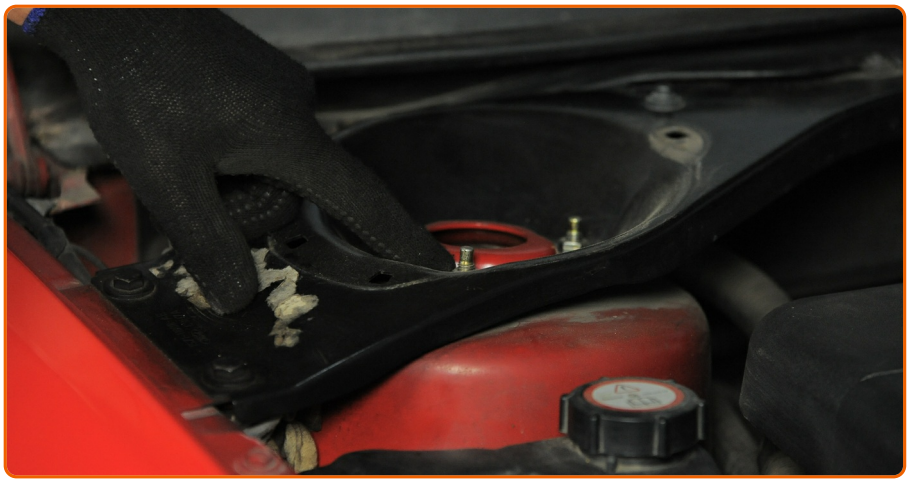
37

Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.

38

Remove the protective cap of the shock absorber mount. Use a flat screwdriver.

39



Clean the fasteners of the shock strut upper mount. Use a wire brush. Use WD-40 spray.

40

Unscrew the top fastening of the shock strut mount. Use a drive socket #13. Use a ratchet wrench.

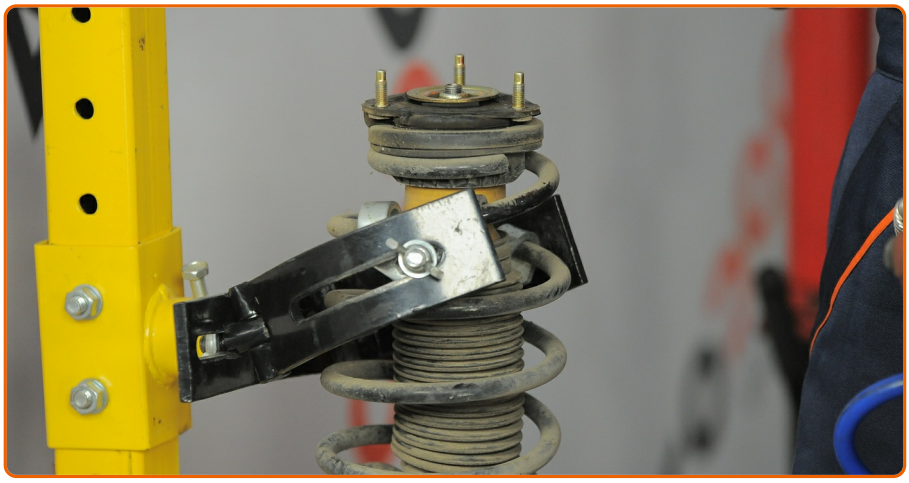
AUTODOC recommends:

- To avoid injuries, hold the shock strut when undoing the fastening bolts.

41

Remove the suspension strut.

42



Set the shock absorber strut on the spring compressor tool.

AUTODOC recommends:

- Note that when using a spring compressor, spring coils need to be securely gripped, compressing the spring on the opposite sides.
- Ensure the correct position of the spring in the retainer.
- Make sure that the spring coils tightly entered the lock handles.

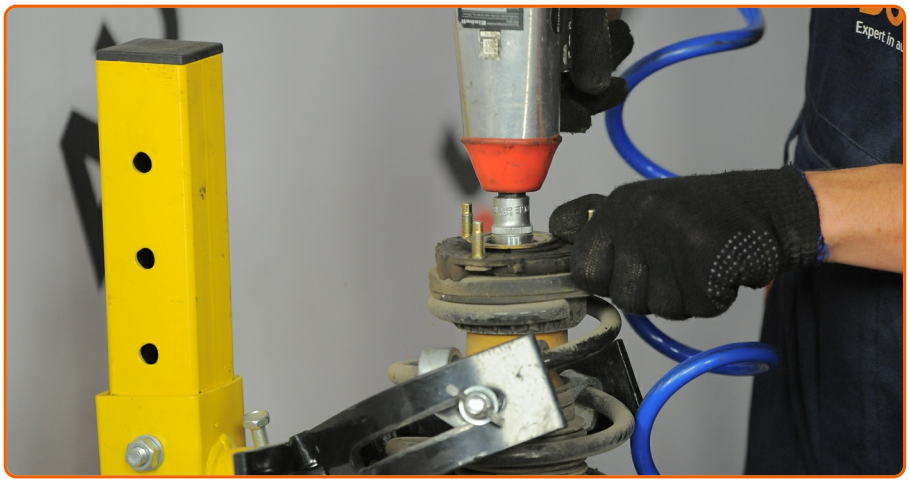
43

Compress the spring.

44

Treat the shock strut rod. Use a wire brush. Use WD-40 spray.

45



Remove the strut piston rod nut. Use a flat screwdriver. Use a drive socket #18. Use a ratchet wrench.

46

Remove the shock absorber mount, boot and bump stop. Use a flat screwdriver.

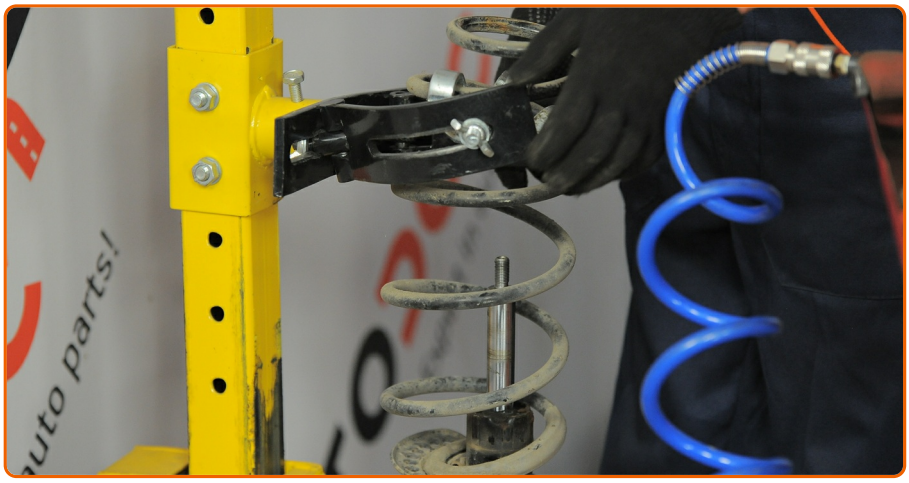
AUTODOC recommends:

- Thoroughly examine the shock absorber mount, dust boot, bump stop. Replace them if necessary.

47

Release the coil spring.

48



Remove the spring.

49

Remove the old shock absorber from the hydraulic coil spring compressor.

AUTODOC recommends:

- Before installing a new shock absorber you should pump it manually 3-5 times.

50

Install the new shock absorber on the hydraulic coil spring compressor.

51

Install the spring on the shock absorber.

52

Compress the spring.

53

Install the dust sleeve and the bump stop on the new shock absorber.

54

Install the upper strut mount and the strut mount bearing. Use HEX No.H5.

55

Tighten the shock strut piston rod nut. Use a flat screwdriver. Use a drive socket #18. Use a torque wrench. Tighten it to 60 Nm torque.

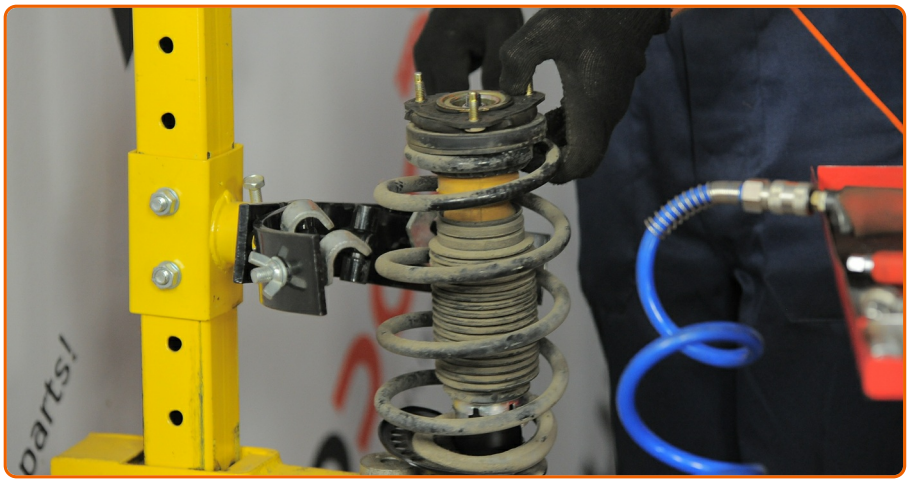
AUTODOC recommends:

- Check to make sure the spring is positioned correctly. Avoid its misalignment.

56

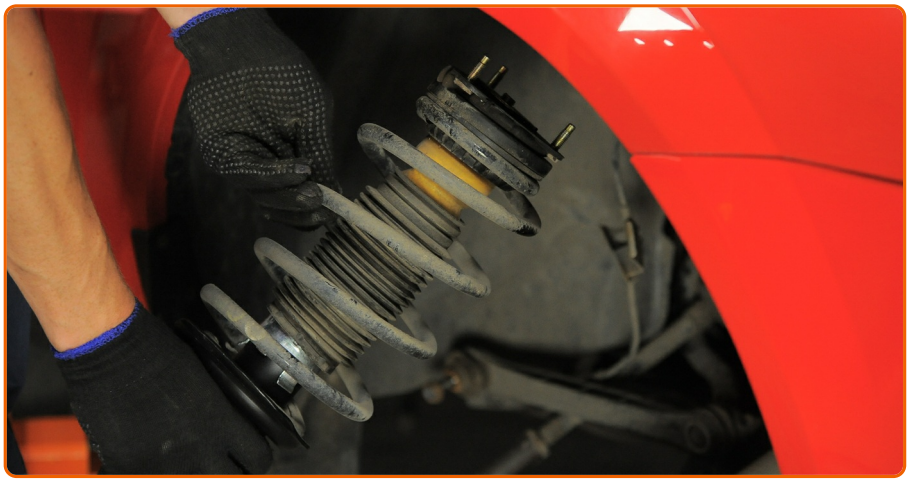
Decompress the spring.

57



Remove the assembled shock strut.

58



Install the shock strut into the wheel arch.

59

Screw the top fastening of the shock strut mount.

AUTODOC recommends:

- To avoid injuries, hold the shock strut when screwing the fastening bolts in.

60

Tighten the upper fastener of the shock absorber strut mount. Use a drive socket #13. Use a torque wrench. Tighten it to 37 Nm torque.

61

Install the protective shock absorber mounting cap.

62

Remove the fender protection cover.

63

Close the hood.

64

Raise the front of the car and secure on supports.

65

Treat the shock strut mounting seat on the steering knuckle. Use a wire brush. Use WD-40 spray.

66

Fix the shock absorber strut on the steering knuckle. Use a hammer.

67

Prop up the steering knuckle. Use a hydraulic transmission jack.

68

Release the lower fastener connecting the shock strut to the steering knuckle. Use a flat metal-working chisel. Use a hammer.

69

Raise the hydraulic transmission jack by 10-15 cm.

70

Install the fastening bolt.

71

Remove the support from under the steering knuckle.

AUTODOC recommends:

- Lower the hydraulic transmission jack smoothly, without jerks, to avoid damaging assemblies and mechanisms.

72

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

73

Mount the drive shaft into the wheel hub.

74

Connect the ball joint to the steering knuckle. Use a crowbar. Use a hammer.

75

Install the fastening bolt. Use a hammer.

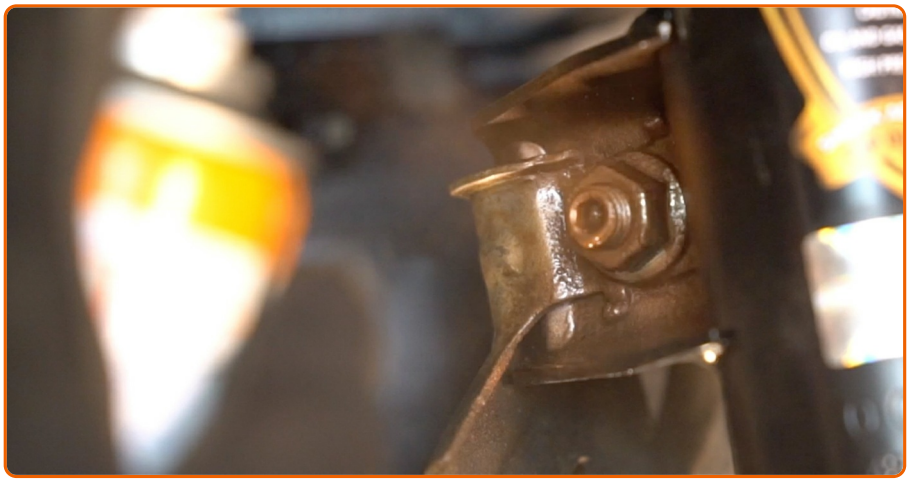
76

Tighten the ball joint fastener. Use Torx T55. Use a drive socket #18. Use a torque wrench. Tighten it to 55 Nm torque.

77

Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a drive socket #15. Use a torque wrench. Tighten it to 65 Nm torque.

78



Treat the shock strut fasteners. Use copper grease.

79

Attach the ABS sensor connector.

80

Install the transverse stabilizer link.

81

Install the bracket onto the shock absorber strut.

82

Tighten the fastener connecting the stabilizer link to the shock strut. Use a combination spanner #17. Use HEX No.H5. Use a torque wrench. Tighten it to 55 Nm torque.

83

Install the fastening nut.

84

Tighten the drive shaft nut. Use a drive socket #32. Use a torque wrench. Tighten it to 154 Nm torque.

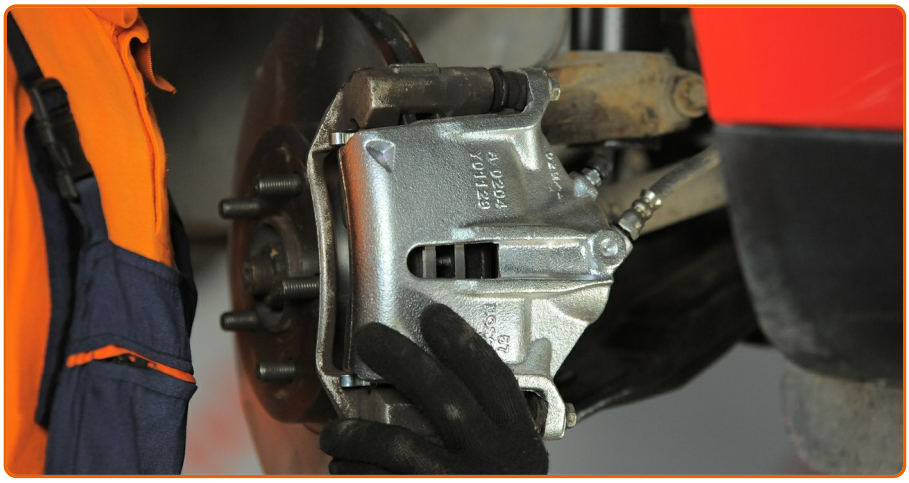
85

Install the brake disc.

86

Clean the mounting seats of the caliper and its bracket. Use a wire brush. Use WD-40 spray.

87



Install the brake caliper together with its bracket.

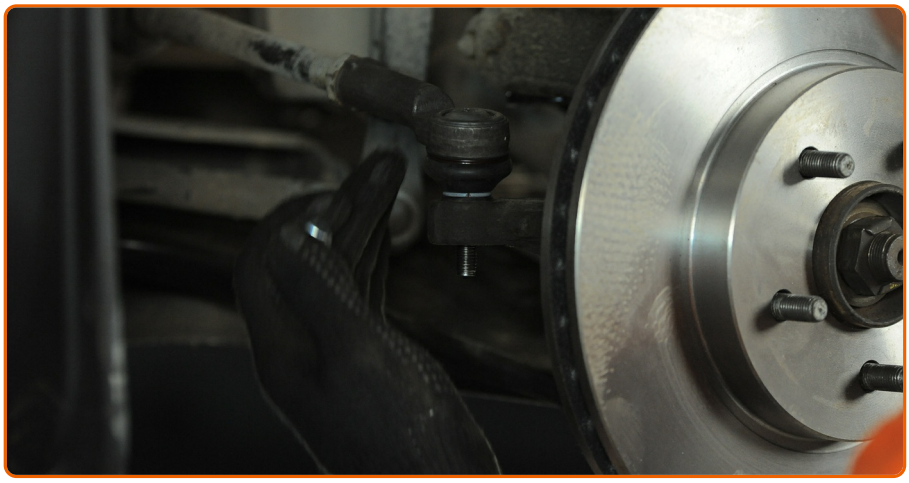
88

Install the fastening bolts (2 pieces).

89

Tighten the brake caliper bracket Use a drive socket #15. Use a torque wrench. Tighten it to 55 Nm torque.

90



Connect the tie rod end to the steering knuckle.

91

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 68 nm torque.

92

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

93

Secure the brake hose fastening bracket.

94

Tighten the brake hose fastening bracket to the shock strut. Use a drive socket #15. Use a torque wrench. Tighten it to 31 nm torque.

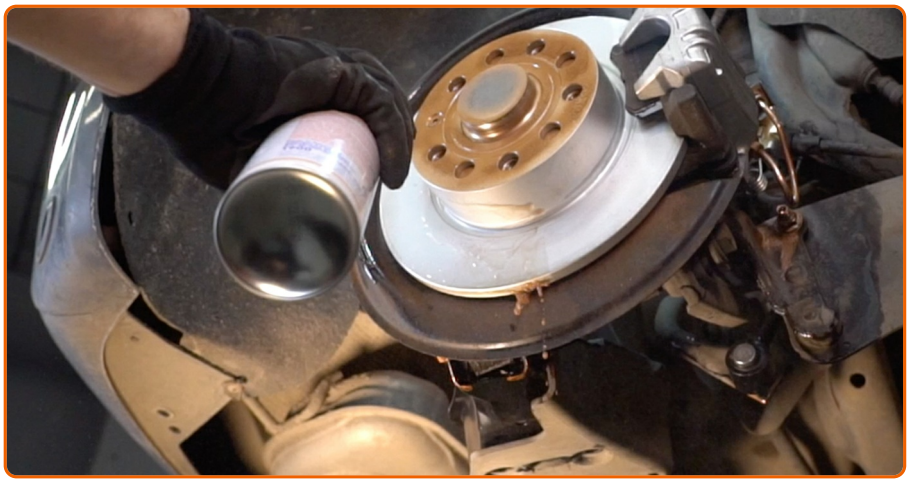
95

Fasten the brake hose on the strut.

96

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

97



Clean the brake disk surface. Use a brake cleaner.

AUTODOC recommends:

- After applying the spray, wait a few minutes.

98

Install the wheel.

AUTODOC recommends:

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

99

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

100

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 120 nm torque.

101

Remove the jacks and chocks.

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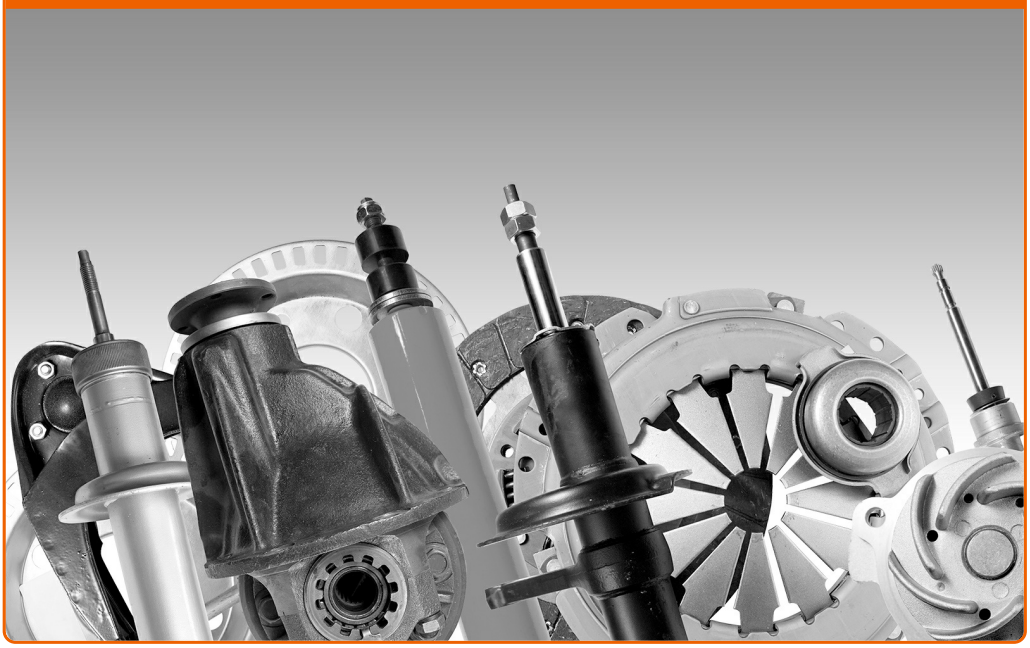

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