



How to change front coil  
springs on **Renault**  
**Master 2 van** –  
replacement guide

## VIDEO TUTORIAL



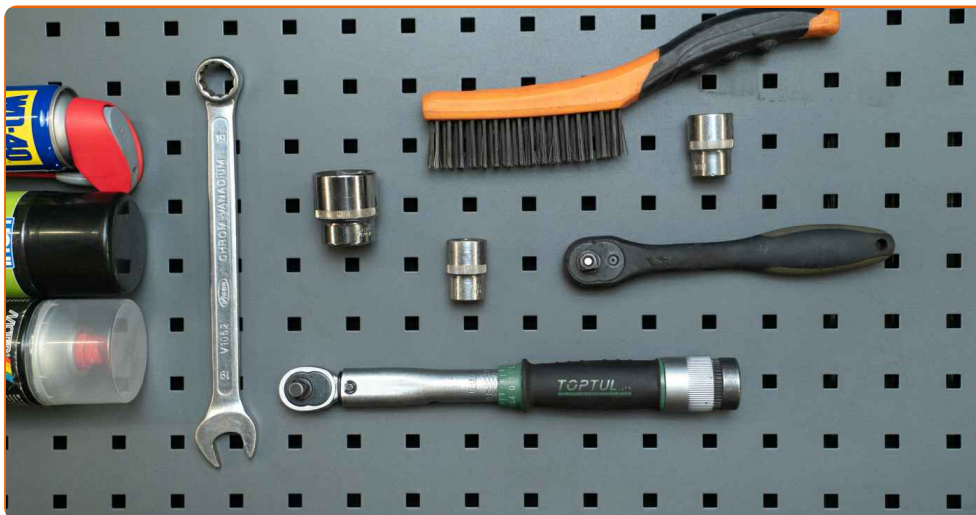
### **ⓘ Important!**

This replacement procedure can be used for:

RENAULT MASTER II Box (FD) 2.5 D, RENAULT MASTER II Box (FD) 2.8 dTI, RENAULT MASTER II Platform/Chassis (ED/HD/UD) 2.5 D, RENAULT MASTER II Platform/Chassis (ED/HD/UD) 2.8 dTI, RENAULT MASTER II Bus (JD) 2.5 D, RENAULT MASTER II Bus (JD) 2.8 dTI, RENAULT MASTER II Bus (JD) 2.2 dCi 90, RENAULT MASTER II Box (FD) 2.2 dCi 90, RENAULT MASTER II Platform/Chassis (ED/HD/UD) 2.2 dCi 90, RENAULT MASTER II Bus (JD) 1.9 dTI, RENAULT MASTER II Box (FD) 1.9 dTI, RENAULT MASTER II Bus (JD) 2.5 dCi 120, RENAULT MASTER II Box (FD) 2.5 dCi 120, RENAULT MASTER II Platform/Chassis (ED/HD/UD) 2.5 dCi 120, RENAULT MASTER II Bus (JD) 1.9 dCi 80, (+ 10)

The steps may slightly vary depending on the car design.

## REPLACEMENT: COIL SPRINGS – RENAULT MASTER 2 VAN. TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- All-purpose cleaning spray
- Ceramic grease
- Torque wrench
- 18 mm socket
- 21 mm socket
- 30 mm socket
- 24 mm wheel impact socket
- Ratchet wrench or power tool for removal/installation of threaded fasteners
- Tommy bar
- Spring compressor
- Transmission jack or a second vehicle jack
- Car lift or jack with jack stands, and wheel chocks

**BUY TOOLS**

Replacement: coil springs – Renault Master 2 van. AUTODOC recommends:

- Replace coil springs in pairs on an axle.
- The replacement procedure is identical for the right and left coil springs of the front suspension.
- All the work should be carried out with the ignition switched off.

## REPLACEMENT: COIL SPRINGS – RENAULT MASTER 2 VAN. RECOMMENDED SEQUENCE OF STEPS:

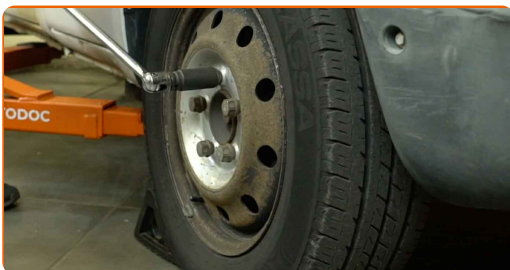
1

If you are going to use a jack, secure the wheels with chocks.



2

Loosen the wheel fasteners. Use a 24 mm wheel impact socket. Use a tommy bar.



3

Raise the vehicle.



### Warning!

- If you are using a jack, make sure the car is parked on a hard, flat surface.
- Make sure to additionally secure the car with jack stands.

4

Unscrew the wheel fasteners.

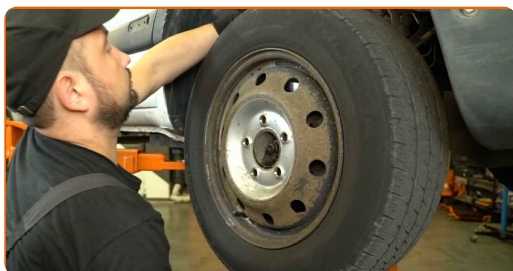


Replacement: coil springs – Renault Master 2 van. Tip:

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

5

Remove the wheel.



6

Support the steering knuckle. Use a transmission jack or one more vehicle jack.



7

Clean the fastener connecting the control arm to the subframe. Use a wire brush. Use WD-40 spray.



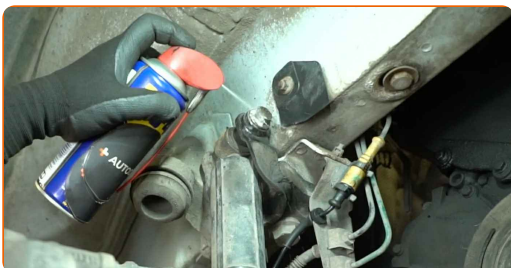
8

Loosen the fastener connecting the control arm to the subframe. Use a 30 mm socket. Use a tommy bar.



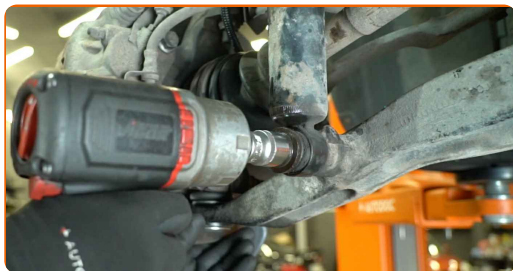
9

Clean the shock absorber fasteners. Use a wire brush. Use WD-40 spray.



10

Unscrew the lower fastener of the shock absorber. Use a 21 mm socket. Use a ratchet wrench.



11

Unscrew the upper fastener of the shock absorber. Use an 18 mm socket. Use a ratchet wrench.



12

Remove the fastening bolts.



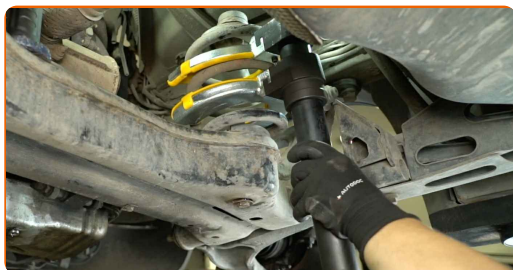
13

Remove the shock absorber.



14

Install the spring compressor on the spring.



### AUTODOC expert recommendation:

- Use jaws of the right size.
- Make sure that the spring coils are tightly secured in the jaws.
- Use a high-quality spring compressor.

15

Compress the spring.

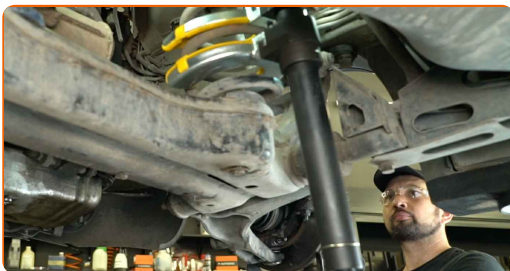


### Replacement: coil springs – Renault Master 2 van. Tip from AUTODOC:

- Be cautious! A compressed spring stores a large amount of energy and if the compressor slips off, the spring will expand and can cause severe injury or death.

16

Lower the support by 10–15 cm.

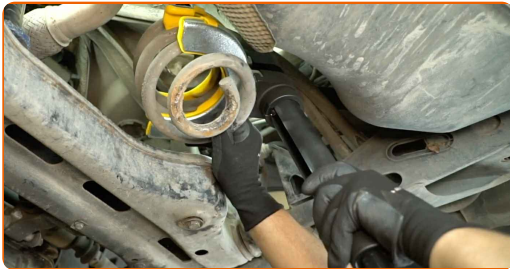


### AUTODOC recommendation:

- Lower the transmission or vehicle jack smoothly without jerking it to avoid damaging the vehicle assemblies and mechanisms.

17

Remove the spring together with the spring compressor.



Replacement: coil springs – Renault Master 2 van. AUTODOC experts recommend:

- Do not perform any actions on the spring while it is compressed.

18

Clean the mounting seats of the spring. Use a wire brush. Use an all-purpose cleaning spray.



19

Clean the shock absorber mounting seats. Use a wire brush. Use an all-purpose cleaning spray.

•

20 Release the spring.



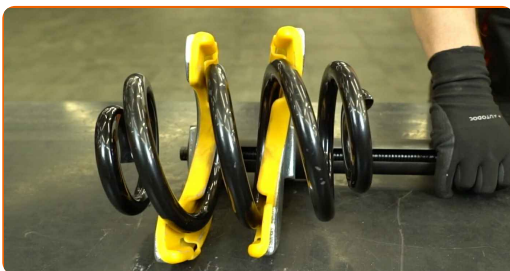
21 Install the spring compressor on the new spring.



### Warning!

- Install the compressor on the same coils of the new spring as it was installed on the old one.

22 Compress the spring.

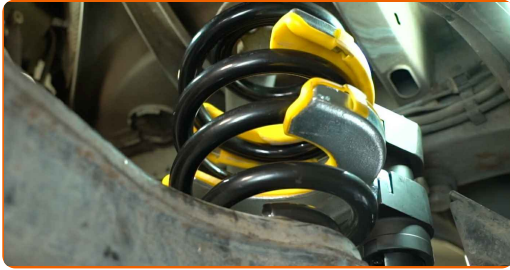


Replacement: coil springs – Renault Master 2 van. Professionals recommend:

- Be cautious! A compressed spring stores a large amount of energy and if the compressor slips off, the spring will expand and can cause severe injury or death.

23

Install the spring on the car together with the spring compressor.

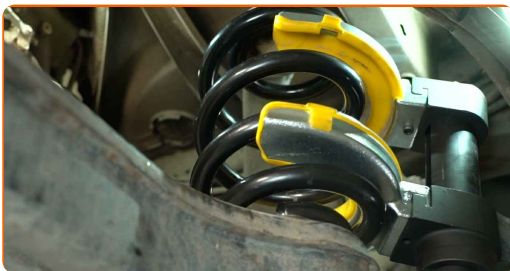


### Warning!

- Make sure that the spring is correctly positioned in its mounting seats.

24

Release the spring.



25

Remove the spring compressor.



26

Install the shock absorber.



## Replacement: coil springs – Renault Master 2 van. AUTODOC recommends:

- Before installing the new shock absorber, make sure to prime it if the part manufacturer recommends doing so. Holding the part upright, compress it and let it extend on its own 3–5 times.

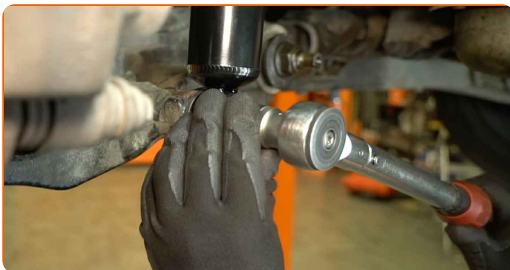
- 27** Install the fastening bolts. If necessary, jack up the suspension to align the mounting holes. Use a transmission jack or one more vehicle jack.



- 28** To tighten the fasteners correctly, you have to jack up the suspension to load it. Use a transmission jack or one more vehicle jack.

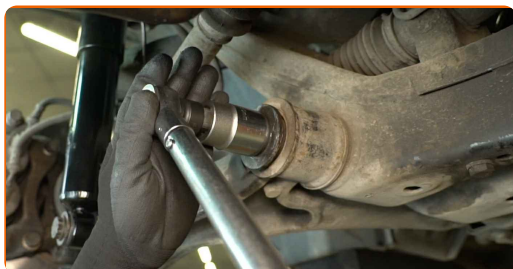


- 29** Tighten the lower fastener of the shock absorber. Use a 21 mm socket. Use a torque wrench. Tightening torque: 180 N·m.



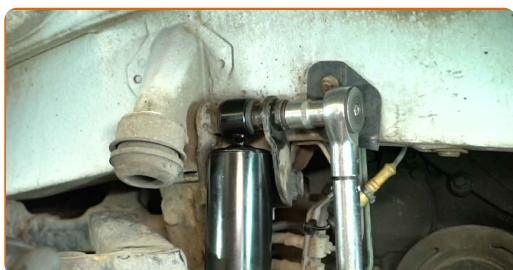
30

Tighten the fastener connecting the control arm to the subframe. Use a 30 mm socket. Use a torque wrench. Tightening torque: 280 N·m.



31

Tighten the top fastener of the shock absorber. Use an 18 mm socket. Use a torque wrench. Tightening torque: 62 N·m.



32

Remove the support from under the steering knuckle.

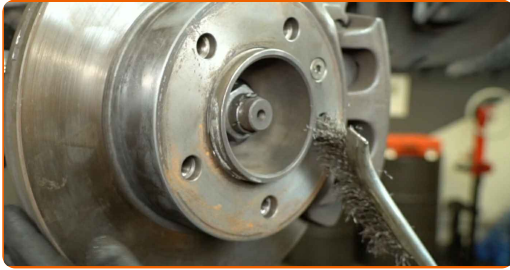


### Important!

- Lower the transmission or vehicle jack smoothly without jerking it to avoid damaging the vehicle assemblies and mechanisms.

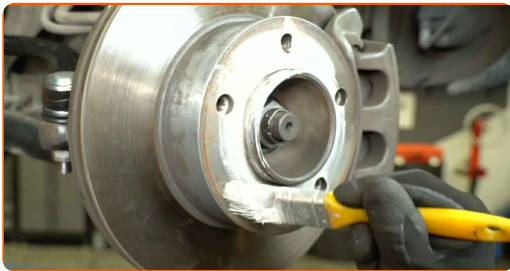
33

Clean the wheel rim mounting seat. Use a wire brush. Use an all-purpose cleaning spray.



34

Treat the brake disc surface that contacts the wheel rim. Use ceramic grease.



35

Install the wheel.

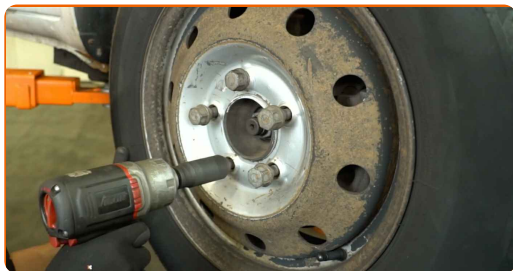


Replacement: coil springs – Renault Master 2 van. Tip:

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

36

Screw in the wheel fasteners. Use a 24 mm wheel impact socket. Use a ratchet wrench.



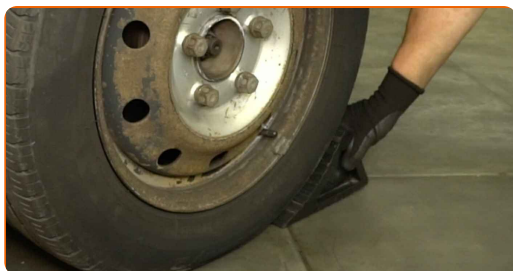
37

Lower the car and tighten the wheel fasteners in a criss-cross pattern. Use a 24 mm wheel impact socket. Use a torque wrench. Tightening torque: 172 N·m.



38

Remove the jack, jack stands, and wheel chocks.



**WELL DONE!** 

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