

FRONT SHOCK ABSORBER AND SPRING: REMOVAL - REFITTING



Note, one or more warnings are present in this procedure



Equipment required
spring compressor
indelible pencil



WARNING

To avoid all risk of damage to the systems, apply the safety and cleanliness instructions and operation recommendations before carrying out any repair:

- [\(see 31A, Front axle components, Front axle components: Precautions for the repair\)](#) ,
- [Vehicle: Precautions for the repair](#) .

Location and specifications (tightening torques, parts always replaced, etc.)[\(see 31A, Front axle components, Front axle assembly: Exploded view\)](#) .

REMOVAL

1. REMOVAL PREPARATION OPERATION

- Position the vehicle on a two-post lift[Vehicle: Towing and lifting](#) .
- Remove the screws of the brake fluid reservoir[Braking control assembly: Exploded view](#) .

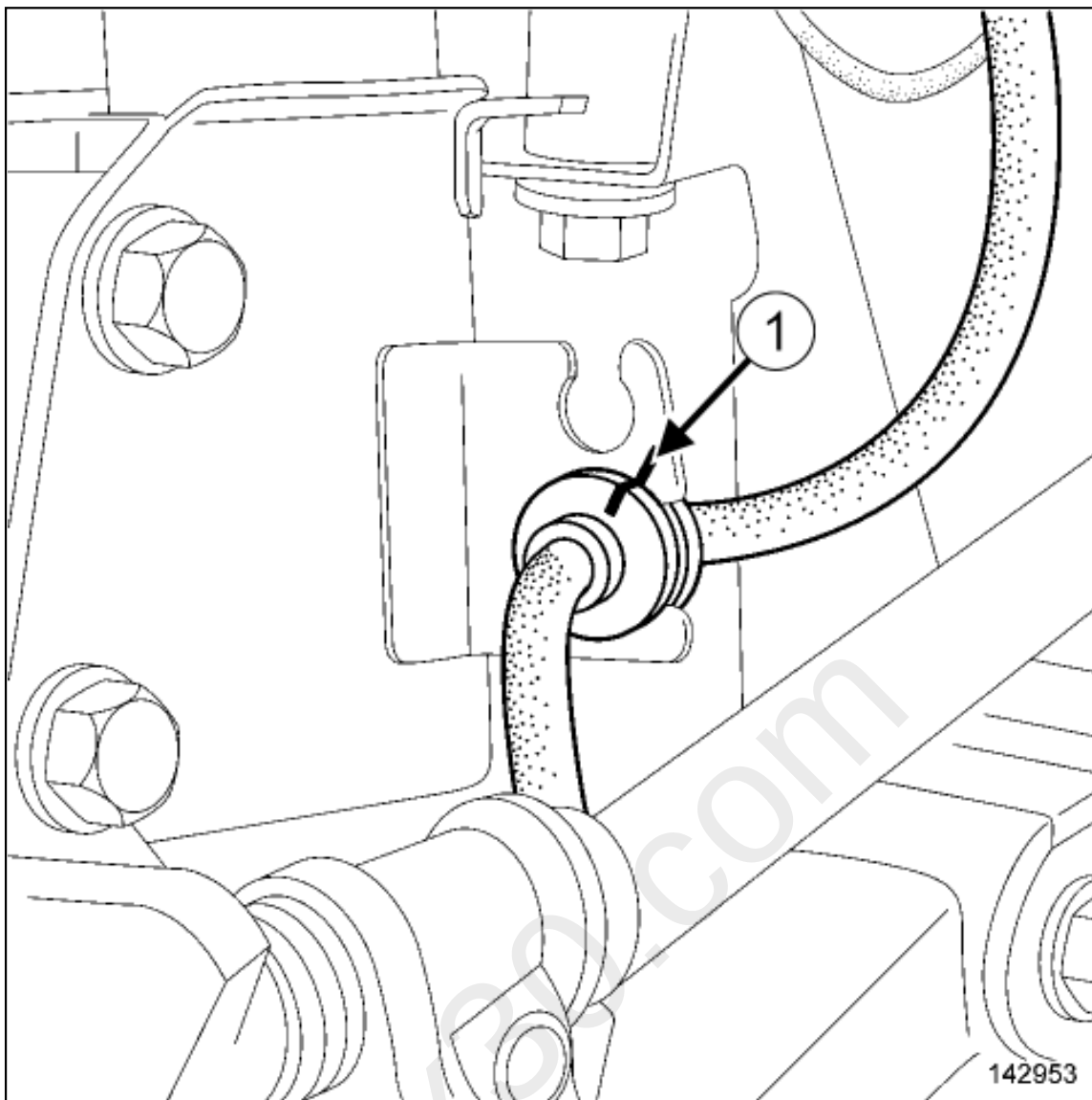


CAUTION

So that air is not reinjected into the brake circuit during the bleeding process, it is essential to keep the secondary tank at a sufficient level (the same as its initial position) before beginning the operation.

- Attach the brake fluid reservoir to the bonnet.
- Remove:
 - the windscreen wiper arms[Wiping and washing: List and location of components](#) ,
 - the scuttle panel grille[Scuttle panel grille: Removal - Refitting](#) ,
 - the front wheel[\(see 31A, Front axle components, Front hub carrier assembly: Exploded view\)](#) .

2. REMOVAL OPERATION



■ Mark the position of the cap on the base of the shock absorber using an indelible pencil.

■ Unclip:

- the wiring of the wheel speed sensor from the brake hose mounting,
- the cap of the brake hose mounting.

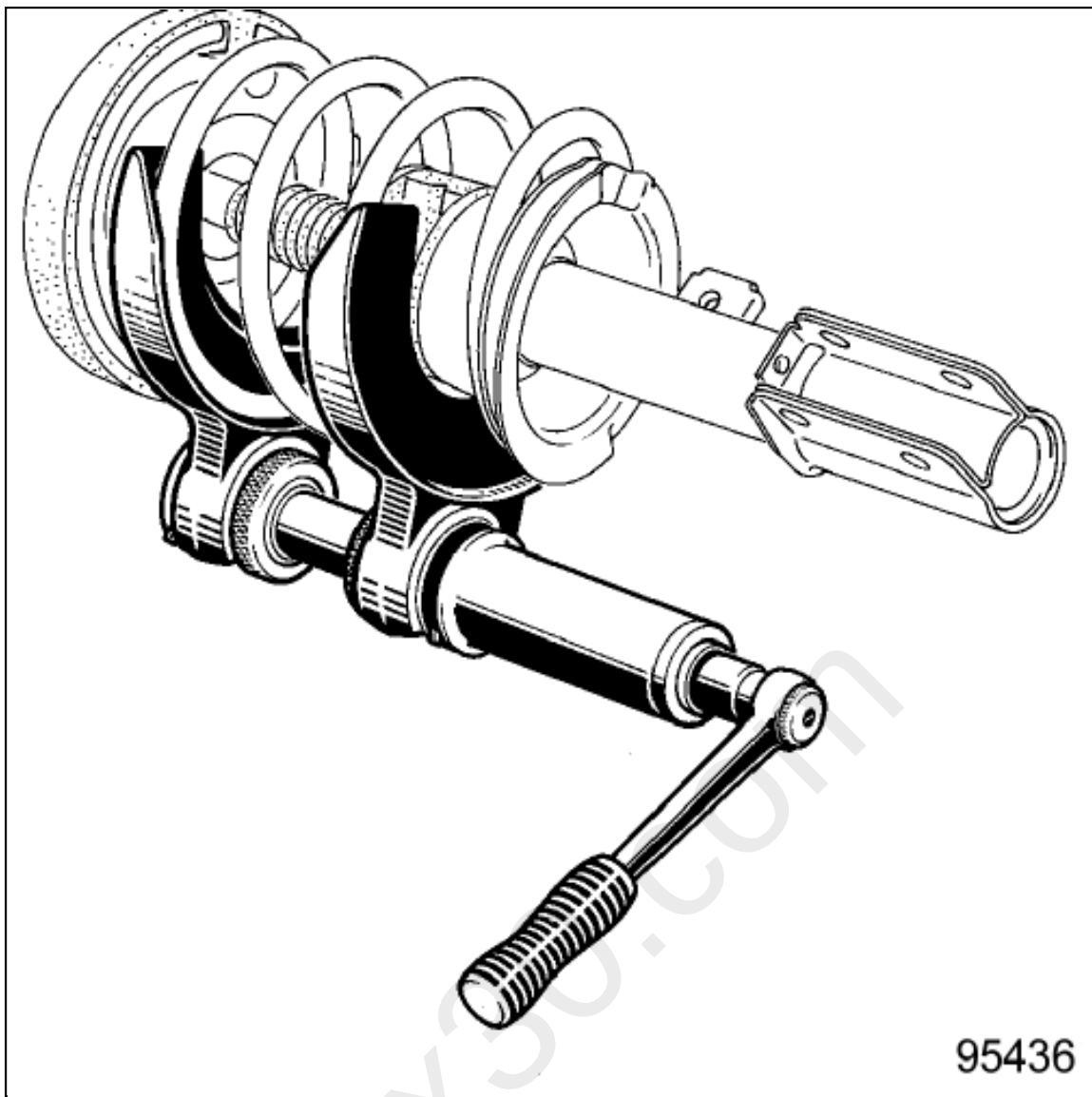
■ Remove [\(see 31A, Front axle components, Front axle assembly: Exploded view\)](#) :

- the brake hose mounting,
- the nut of the anti-roll bar tie rod on the base of the shock absorber,
- the track rod nut,
- the shock absorber base studs.

■ Attach the hub carrier to the subframe.

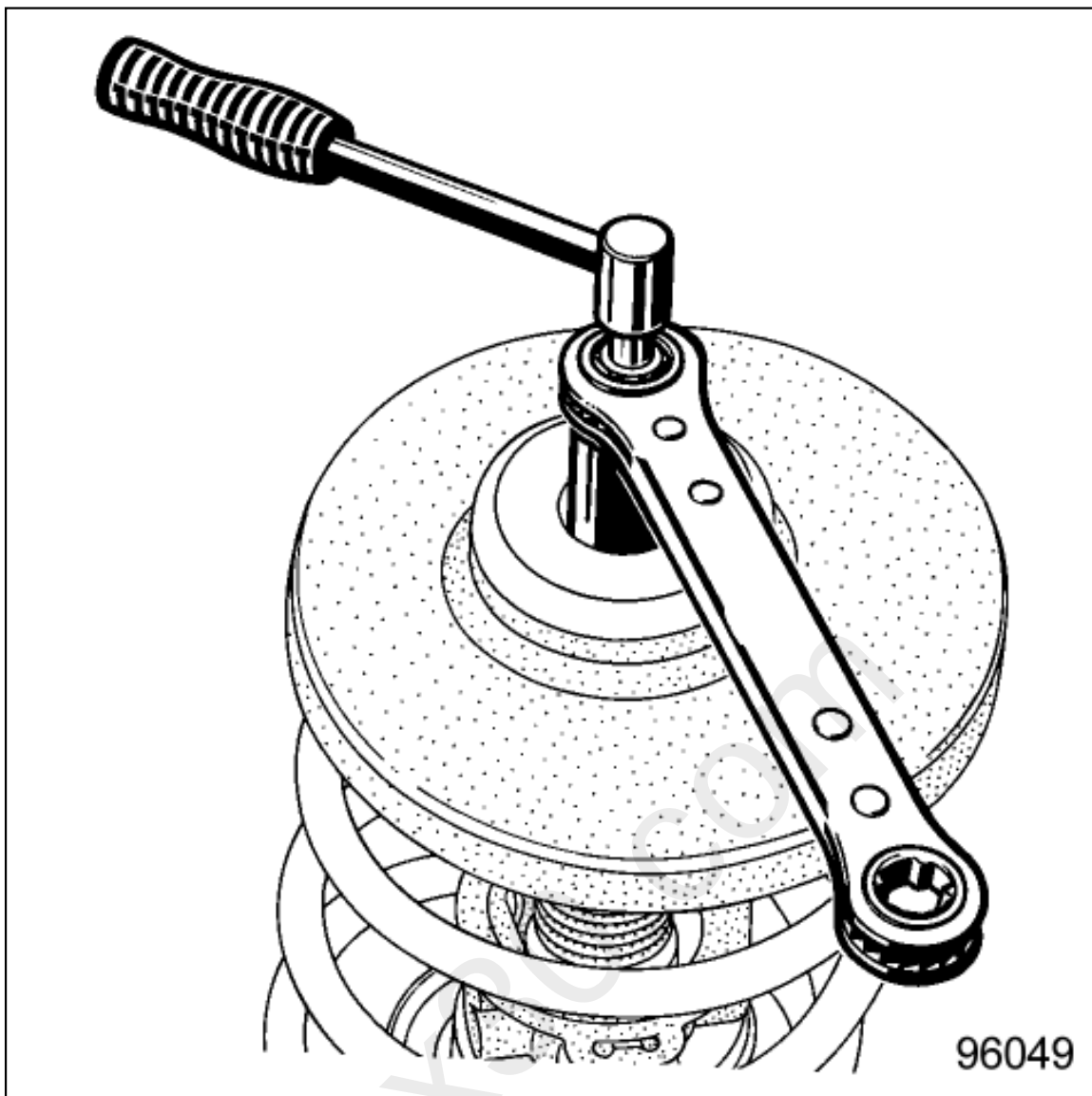
■ Remove [\(see 31A, Front axle components, Front axle assembly: Exploded view\)](#) :

- the filter block bolts on the body,
- the "spring - shock absorber" assembly.



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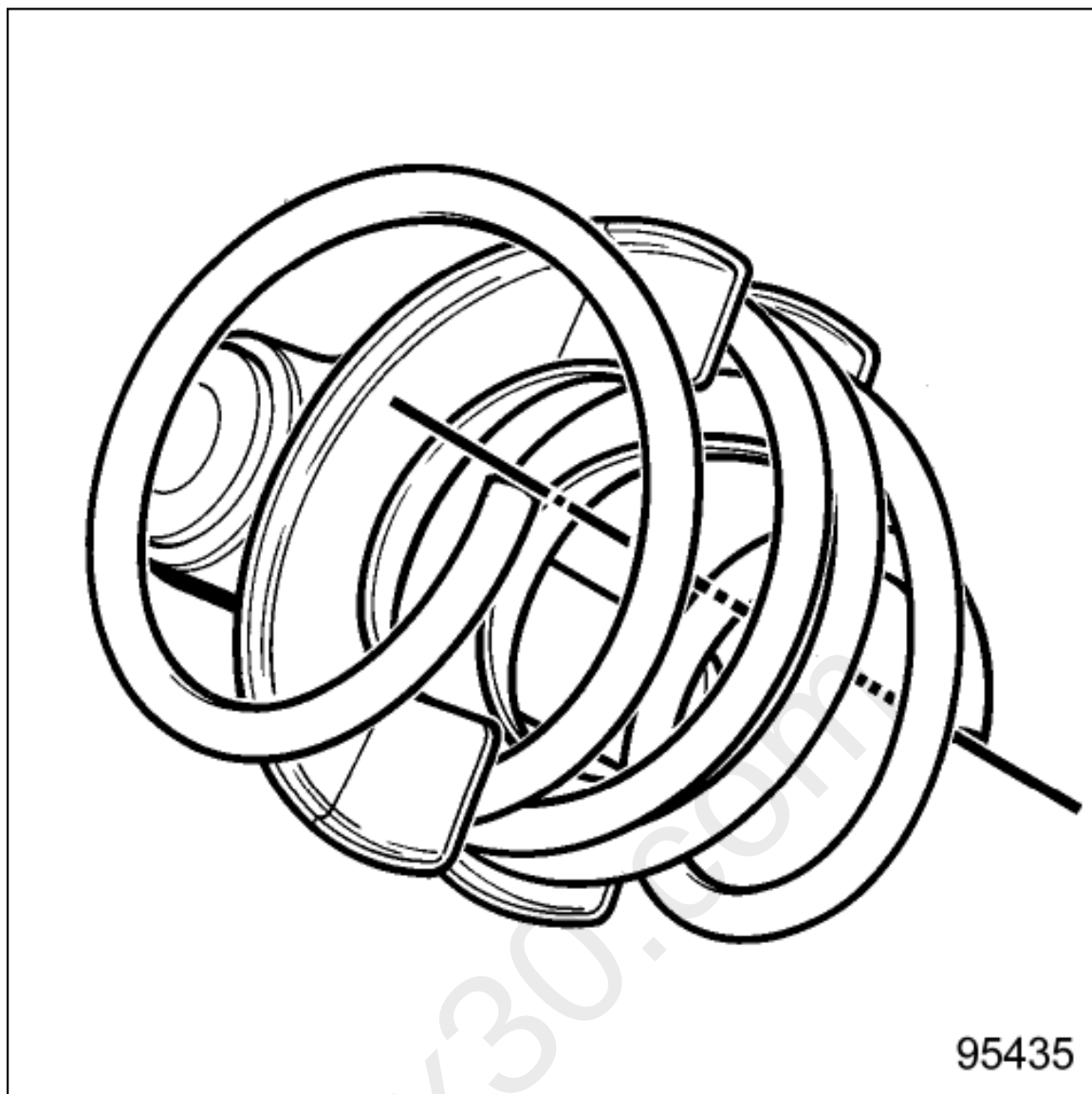
- Position the appropriate cups on the spring compressor.
- Position the spring compressor on the spring.
- Put the "spring compressor - spring" assembly in a vice equipped with jaws.
- Compress the spring using the spring compressor until the spring detaches.



- Remove the shock absorber rod nut using the spanner for shock absorber rod nut.
- Separate the various components which make up the "spring - shock absorber" assembly.

REFITTING

1. REFITTING PREPARATION OPERATION

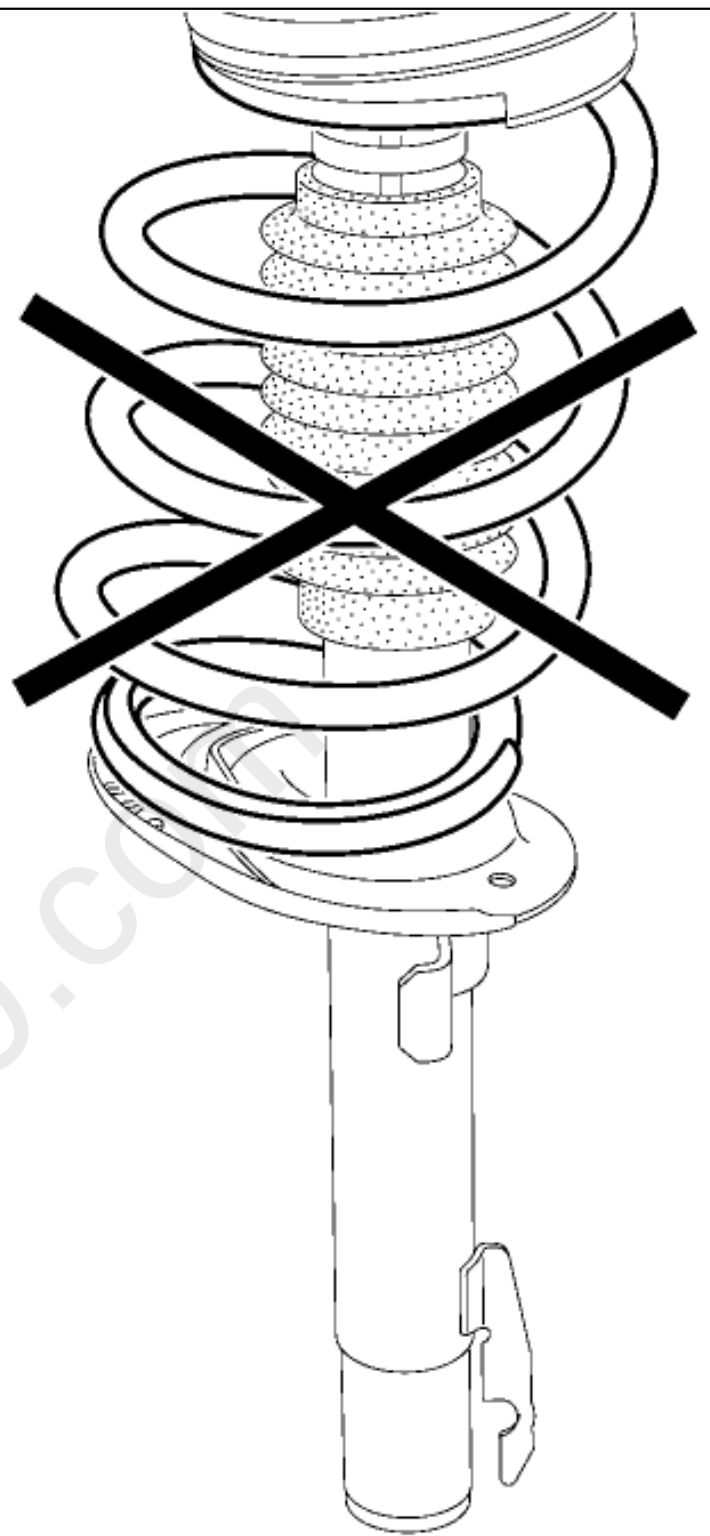
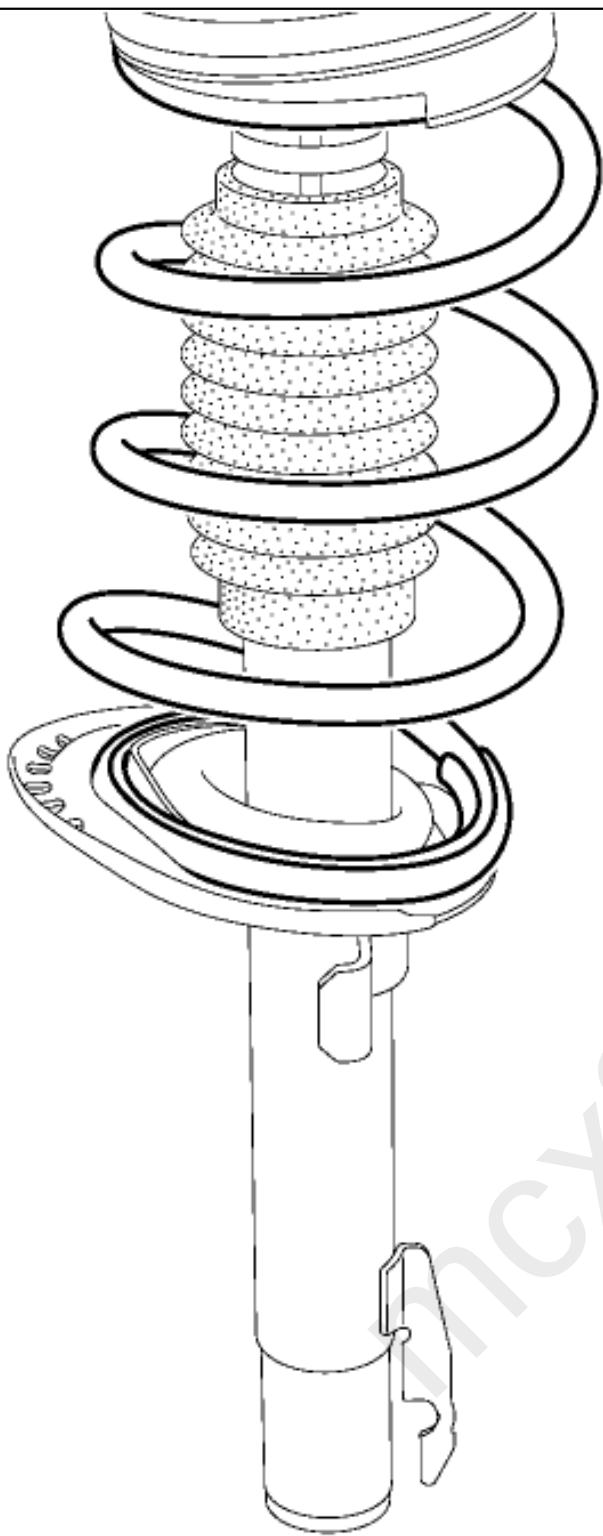


If necessary, replace any faulty filter unit components([see 31A, Front axle components, Front axle assembly: Exploded view](#)) .

2. REFITTING OPERATION

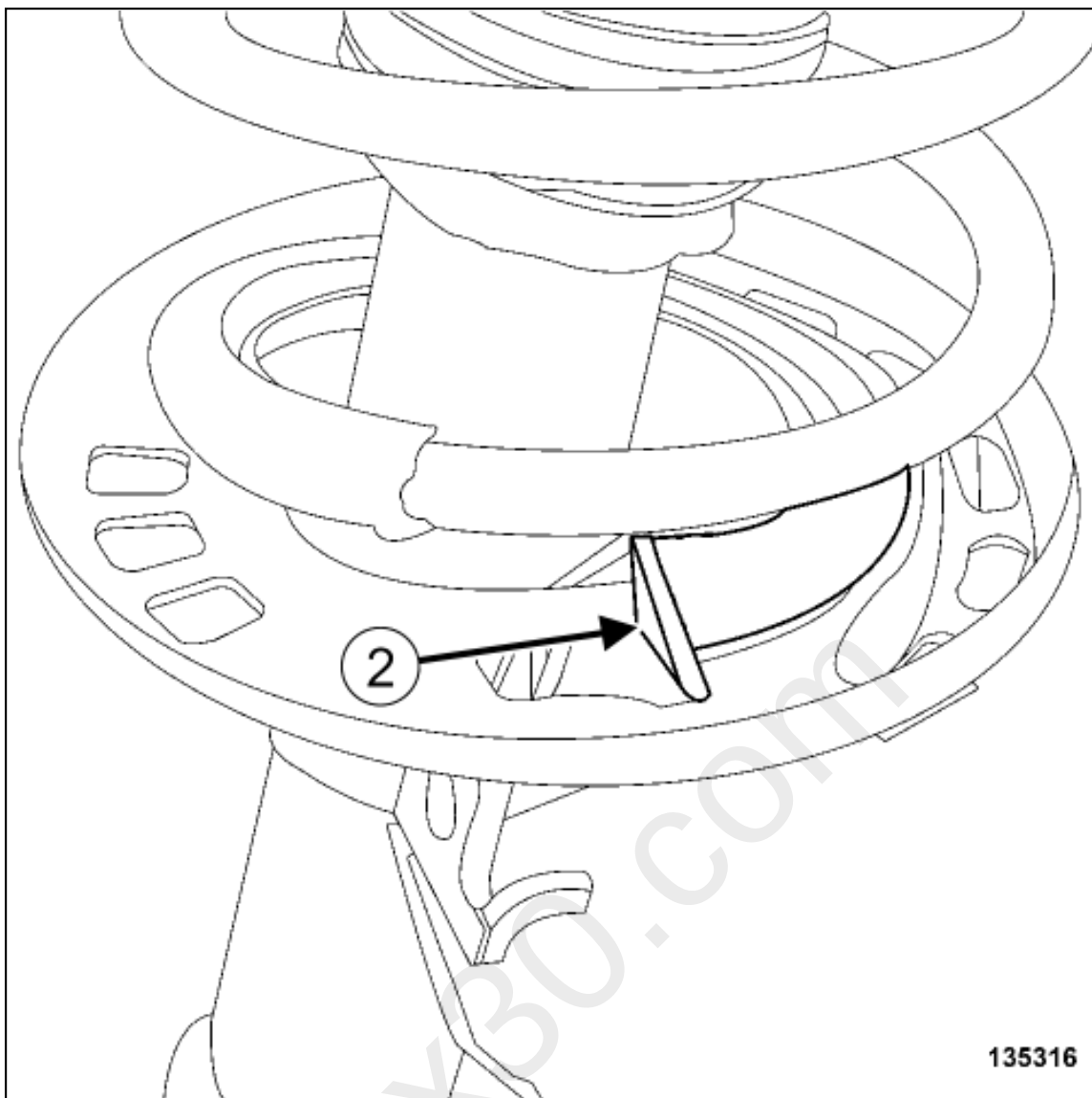
Place the spring compressor in a vice equipped with jaws.

Compress the spring.



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Insert the spring in the neck of the cup.



Check that the spring is in contact against the stop⁽¹⁾.

Respect the order and direction of fitting for the constituent parts([see 31A, Front axle components, Front axle assembly: Exploded view](#)) .

Torque tighten the new shock absorber rod nut([see 31A, Front axle components, Front axle assembly: Exploded view](#)) .

Decompress the spring.

Remove the spring compressor.

3. FINAL OPERATION

Proceed in the reverse order to removal.

Check the front axle geometry [Axle assemblies: Check](#) .

Adjust the front axle, if necessary [Front axle system: Adjustment](#) .



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